



**IMPROVEMENT OF QUALITY MANAGEMENT FOR  
HIGHWAY AND BRIDGE CONSTRUCTION AND  
MAINTENANCE, PHASE II**

**BRIDGE INSPECTION MANUAL  
FOR  
SUSPENSION BRIDGE  
(SPECIAL BRIDGE)**

**2014**

**Department of Public Works and Highways**  
Japan International Cooperation Agency





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**DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
JAPAN INTERNATIONAL COOPERATION AGENCY**





Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
**OFFICE OF THE SECRETARY**  
Manila



### **FOREWORD**

Suspension bridges are special bridges constructed to suit the adaptability of the structure to its location covering busy waterways.

Thus, ensuring its structural integrity after its exposure to natural elements is equally important to motorists and commuters passing this special type of bridge.

With the assistance from Japan International Cooperation Agency (JICA), the production of this Manual on bridge inspection for suspension bridges is deemed necessary in preserving the structural integrity of these bridge facilities, particularly those special/long span bridges.

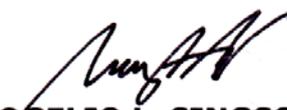
Fittingly titled, **Bridge Inspection Manual for Suspension Bridge** classified as Special Bridge contains guidelines and techniques in conducting actual inspection of special/long span bridges incorporating latest technology trends.

This Manual will undoubtedly improve our engineers' knowledge and technical know-how on inspection and maintenance of special bridges, conforming to international practices and standards.

I view this Manual beneficial in prolonging the service life of our national bridges at its paramount usability towards our Department's efficient management of government infrastructure assets.

Our sincerest gratitude to JICA for their technical and funding assistance and the dedicated DPWH personnel who both worked hard in the realization of this Manual.

I enjoin all those concerned to use this as easy reference and proper guide in the conduct of inspection for suspension bridges.

  
**ROGELIO L. SINGSON**  
Secretary





## ACKNOWLEDGEMENT

The Special Bridge Inspection Manual for Suspension Bridge is one of several manuals improved by the Japan International Cooperation Agency (JICA) with the Department of Public Works and Highways (DPWH) in the implementation of the Technical Cooperation Project for the Improvement of Quality Management for Highways and Bridge Construction and Maintenance, Phase II (2011-2014).

The JICA Expert Team would like to express its appreciation its heartfelt thanks to the Technical Working Group and Counterpart Working Group members designated for the Project and to the staff of Region II, III VIII and Region XIII who have rendered utmost support to complete this undertaking.

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### **GLOSSARY OF TERMS**

|      |                              |
|------|------------------------------|
| AADT | Annual Average Daily Traffic |
| API  | Agency Performance Indicator |
| AWP  | Annual Works Program         |
| B/C  | Benefit/Cost Ratio           |
| BOC  | Bureau of Construction       |
| BOD  | Bureau of Design             |
| BOE  | Bureau of Equipment          |
| BOM  | Bureau of Maintenance        |
| BMC  | Bridge Maintenance Costs     |
| BMS  | Bridge Management System     |
| BIM  | Bridge Inspection Manual     |
| BNR  | Bridge Needs Ratio           |
| BRF  | Bridge Route Factor          |
| COE  | Certificate of Exemption     |
| CRF  | Capital Recovery Factor      |
| DEO  | District Engineering Office  |



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|       |  |
|-------|--|
| DPD   | Development Planning Division                            |
| DPWH  | Department of Public Works and Highways                  |
| ECC   | Environmental Compliance Certificate                     |
| EMK   | Equivalent Maintenance Kilometer                         |
| FAP   | Foreign Assisted Project                                 |
| FS    | Feasibility Study  |
| GAA   | General Appropriations Act                               |
| GIS   | Geographic Information System                            |
| ICC   | Investment Coordination Committee                        |
| IPRSD | Infrastructure Planning Research and Statistics Division |
| IQL   | Information Quality Level                                |
| IRR   | Internal Rate of Return                                  |
| JBIC  | Japan Bank for International Cooperation                 |
| JICA  | Japan International Cooperation Agency                   |
| KPI   | Key Performance Indicator                                |
| LFP   | Locally Funded Project                                   |
| LRM   | Locational Referencing Method                            |
| LRP   | Locational Reference Point                               |
| LRS   | Locational Referencing System                            |
| MIS   | Monitoring & Information Service                         |
| MM    | Major Maintenance  |
| MPS   | Maintenance Priority Score                               |
| MTIDP | Medium Term Infrastructure Development Plan              |
| MTPDP | Medium Term Philippine Development Plan                  |
| MTPIP | Medium Term Public Investment Program                    |
| MVUC  | Motor Vehicle User Charge                                |
| MWP   | Multi-year Work Program                                  |
| MYPS  | Multi-Year Programming and Scheduling Network            |
| ND    | Development  |
| NMPS  | Normalized Maintenance Priority Score                    |
| NPV   | Net Present Value  |
| NPV/C | Net Present Value - Cost Ratio                           |
| OIC   | Officer In Charge  |
| PMO   | Project Management Office                                |
| PPI   | Process Performance Indicator                            |
| PS    | Planning Service   |
| PUF   | Present Worth Factor                                     |
| QA    | Quality Assurance  |
| QC    | Quality Control  |
| RBIA  | Road and Bridge Information Application                  |
| RDBL  | Road Diagram and Bridge List                             |
| RIMSS | Road Information and Management Support                  |
| RMMS  | System Routine Maintenance Management System             |
| RO    | Regional Office  |
| ROPDD | Regional Office Planning & Design Division               |
| ROMD  | Regional Office Maintenance Division Road                |
| RPO   | Program Office   |
| SQL   | Standard Query Language                                  |
| SRSF  | Special Road Support Fund                                |



## INSPECTION MANUAL FOR SUSPENSION BRIDGE

### 1. INTRODUCTION

#### 1.1. Background

The Bridge Inspection Manual for Suspension Bridge is one of the manuals developed under the implementation of the DPWH program entitled “Improvement of Quality Management for Highway and Bridge Construction and Maintenance Phase II” of the JICA Technical Cooperation Project (JICA-TCP).

This Manual is designed to establish/formulate inspection procedures, criteria and guidelines specifically for Suspension Bridge which is considered as a special/long span bridge wherein the conduct of inspection activities and/or requirements are not covered in the Bridge Management System (BMS) Manual.

In order to provide the DPWH personnel and other users with the standard method for the assessment and uniform inspection practices throughout the Philippines, Magapit Suspension Bridge located in Region II is selected as a pilot bridge for this purpose. The details of the drawings and prescribed forms in this manual are designed for the above mentioned pilot bridge. In case that other Suspension Bridges are inspected, all applicable provisions in this manual should be adopted and other drawings and forms should be adjusted for each bridge.

In comparison, the common features/differences between the BMS Manual and the Bridge Inspection Manual for Suspension Bridge are as follows:

- This Manual uses the same procedures established in the present BMS Manual pertaining to the type of material, type of damage, bridge rating criteria, etc., except for special materials and devices (i.e., weathering steel, hanger ropes and its related devices).
- Descriptions of special materials and devices are added in this manual.
- All descriptions in the BMS Manual originally intended for standard bridges but are also applicable for Suspension Bridges.
- Specific description and drawings applicable for Suspension Bridge but not indicated in the BMS Manual are incorporated herein.

Since this manual is designed with the information or data pertaining to Magapit Bridge, the following has been developed:

- Drawings concerning the Inventory, Routine and Condition Inspections are related to Magapit Bridge.
- Inspection Routes for the Routine and Condition Inspections pertain only to Magapit Bridge.



- Check Points on Routine and Condition Inspections to specific bridge members of Suspension Bridge.
- Inventory information pertains to Suspension Bridge.

On the scope of Routine Inspection for standard bridges, the said activity is conducted in accordance with the Department Order (DO) Nos. 179 series of 1997 and 81 series of 2005. However, Suspension Bridge is classified as a special/long span bridge and as such, there are aspects on the Routine Inspection criteria which are not covered by the aforementioned DOs. Considering the higher degree of importance of special/long span bridge which demands that proper maintenance should be instituted, the development of the Bridge Inspection Manual for Suspension Bridge therefore is essential as it provides the appropriate inspection procedure which is a prerequisite of its routine maintenance needs and addresses the following issues:

- Necessity of early detection of defects as a preventive approach through Routine Inspection
- To avoid loss of lives and properties due to the collapse of the bridge or failure of attributes, etc.
- Be able to interpret some of the complicated behavior of the bridge.
- Avoid the high cost of a major repair and replacement of the bridge.

## **1.2. Scope of this Manual**

The basis in the proper maintenance and management of special/long span bridges initially relies on the availability of its inventory and annual condition information which will provide reference data and track previously reported deterioration of the bridge.

Therefore, along with such intention, the manual presents a guideline in the actual conduct of the Inventory Inspection, Routine Inspection, Condition Inspection and Geometrical Inspection whose purpose is to obtain an accurate inventory and condition data which will lead to the formulation of appropriate maintenance measures needed to ensure efficient and sound operation for management of special/long span bridges.

Since special/long span bridge has unique design and type of structure, it should be managed separately from standard bridges, with medium term management (next 5 years). Likewise, it could not be inspected and repaired by lump sum budget like standard bridge. The duration and cost of inspection and maintenance are also different among special type of bridges.

The specific maintenance management plan includes but not limited to the followings:

1. Inspection schedule
2. Planning for Repair Work
3. Budget Estimation
4. Implementation Schedule



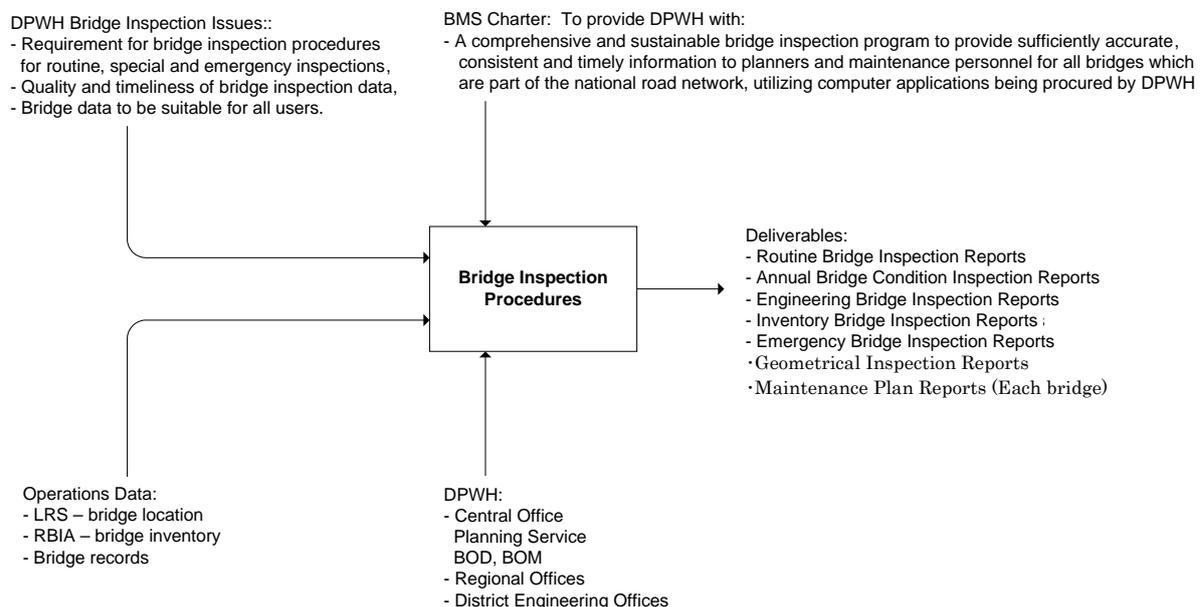
The contents of this manual depict a consistent and proper bridge inspection procedures to ensure that inspection reports for all types of bridge inspections are properly prepared.

The main focus of this bridge inspection manual are; Routine Inspection (Type 1), Condition Inspection (Type 2), Inventory Inspection (Type 5), and Geometrical Inspection (Type 6). These inspections will provide the basic bridge data required to be stored and managed properly. Database is introduced in this manual for the management of Special Bridge Inventory Data.

### 1.3. Bridge Inspection Requirements

The bridge inspection procedures and requirements are shown in Figure 1-1.

**Figure 1-1**  
**Bridge Inspection Procedures and Requirements**



The types of special bridge inspections undertaken by the DPWH are listed in Table 1.1. Scheduled bridge inspections are those inspections required to be undertaken on a set frequency (e.g. annually, quarterly) to supply data for DPWH functions. Non-scheduled inspections are those inspections undertaken only when required (e.g. an addition of new national bridges or during calamities).



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**Table 1-1**  
**Types of Special Bridge Inspections**

| <b>TYPE</b> | <b>NAME</b> | <b>FREQUENCY</b>   | <b>METHOD</b>   | <b>REMARKS</b>   |
|-------------|-------------|--|---|--|
| 1           | Routine     | Quarterly  | Visual inspection from ground level                                 |  |
| 2           | Condition   | Annually   | Close visual inspection by boat and Bridge Inspection Vehicle (BIV) | Recommended: Inspection by BIV at least every three years                                    |
| 3           | Engineering | As required  | Detail inspection by skilled engineers for bridge repair work       | Refer to Bridge Engineering Inspection Manual  |
| 4           | Emergency   | As required  | Emergency inspection by skilled engineers for emergency action      |  |
| 5           | Inventory   | Once after construction and after every modification                             | Data collection from As Built Drawings and construction documents   | As Built Drawings data should be collected and attached to Special Bridge Inventory Database |
| 6           | Geometrical | Once every three years and as the need arises (after earthquake, typhoon, etc. ) | Measure by surveying instrument                                     | Current data should be analyzed with past 3 time data.                                       |

The responsible offices tasked to undertake special bridge inspections are summarized in Table 1-2. The specific requirements for those personnel assigned to undertake the bridge



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inspections are given in Table 1-3.

**Table 1-2**  
**Bridge Inspection Responsibility**

| <b>TYPE</b> | <b>NAME</b> | <b>RESPONSIBILITY</b>   | <b>REPORTING</b> |
|-------------|-------------|---|------------------|
| 1           | Routine     | Regional Office BMS Coordinator to be assisted by DEO Accredited Bridge Inspector | Report to PS-CO  |
| 2           | Condition   | Regional Office BMS Coordinator to be assisted by DEO-Accredited Bridge Inspector | Report to PS-CO  |
| 3           | Engineering | DEO / RO / BOD / BRS / BMS Team and other Entities                                | Report to PS-CO  |
| 4           | Emergency   | Regional Office to be assisted by DEO maintenance personnel                       | Report to BOM-CO |
| 5           | Inventory   | Regional Office to be assisted by DEO-Accredited BI                               | Report to PS-CO  |
| 6           | Geometrical | Regional Office to be assisted by DEO-Accredited BI                               | Report to PS-CO  |

**Table 1-3**  
**Requirements for Bridge Inspection Personnel**

| <b>TYPE</b> | <b>NAME</b> | <b>PERSONNEL</b>  |
|-------------|-------------|---|
| 1           | Routine     | Accredited Bridge Inspector   |
| 2           | Condition   | Accredited Bridge Inspector   |
| 3           | Engineering | Accredited Bridge Inspector / Bridge Engineer / Materials Engineer or outsourcing to Private Consultant Company or Entities |
| 4           | Emergency   | Bridge Engineer and Accredited Bridge Inspector   |
| 5           | Inventory   | Accredited Bridge Inspector   |
| 6           | Geometrical | Accredited Bridge Inspector and Bridge Engineer   |

An Accredited Bridge Inspector should meet the following qualifications: (1) be permanent in Status of Appointment, (2) has an experience in design, construction, maintenance and inspection of bridges, and (3) has successfully completed the BMS training course and received accreditation.

The Accredited Bridge Inspector is trained in assessment of the condition of bridge structures through visual inspection defects. However, the Accredited Bridge Inspector can get support and assistance from Bridge Engineers in the Regional and District Engineering Offices concerned in making decision/s or recommendation/s.

Bridge Inspection Type 1 and 2 shall be undertaken by the Regional Office BMS Coordinator to be assisted by DEO Accredited Bridge Inspector because of the complication of structure of Special/long span bridge. They should be Accredited Bridge Inspector.

Bridge Inspection Type 3 of Special Bridge requires a high level of bridge engineering knowledge and will be undertaken by experienced bridge design engineers with the assistance of an Accredited Bridge Inspector and Materials Engineer or be outsourced to Private Consultant Company or Entities.



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Bridge Inspection Type 4 shall be undertaken by the Regional Office Bridge Engineer and Accredited Bridge Inspector to be assisted by the Maintenance Engineers from the District Engineering Offices concerned.

Bridge Inspection Type 5 shall be undertaken by the Accredited Bridge Inspector in RO and DEO.

Bridge Inspection Type 6 will require surveying instruments (i.e., Total Station and Level), to be conducted by the Accredited Bridge Inspector and Bridge Engineer in RO and DEO.

The classification of bridges to be categorized into Special Bridge is given in Table 1-4.

**Table 1-4**  
**Classification of Special Bridge**

| <b>BRIDGE TYPE</b>                     | <b>REQUIREMENT</b> |
|--|--------------------|
| Prestressed Concrete Extradosed Bridge | Every bridge       |
| Prestressed Concrete Box Girder Bridge | Longest span >60m  |
| Steel Truss Bridge                     | Longest span >60m  |
| Steel Arch Bridge                      | Every bridge       |
| Cable-stayed Bridge                    | Every bridge       |
| Suspension Bridge                      | Every bridge       |

These bridges should be inspected with Special Bridge Inspection Manual and be managed separately from standard bridges by a Medium Term Management Plan (5-10years). The special/long span bridge List in each region should be collected and be listed for management in the Special Bridge Inventory Database.

List of Special/long Span Bridges in Regions II, III, VIII and XIII is attached in Appendix A.



## 2. GENERAL REQUIREMENTS FOR BRIDGE INSPECTION

### 2.1. Accuracy

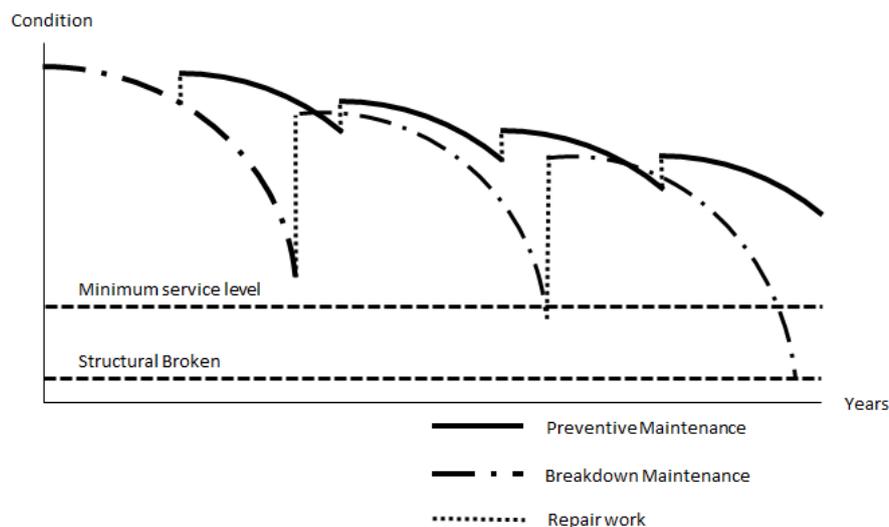
It is important that bridge inspection is thoroughly completed with accuracy as a primary goal. Bridge inspectors should allow sufficient time in undertaking the bridge inspection to collect all data required correctly.

### 2.2. Proactive Approach to Bridge Inspections

Inspections should not be confined in searching for defects that are clearly visible in the bridges. Inspections should also include anticipating problems and recognizing where these are likely to occur, in order that deterioration of the bridges is prevented. This approach is known as preventive inspection rather than corrective inspection.

There are two views in the maintenance method. One is Breakdown Maintenance. Another is Preventive Maintenance. Structure has been deteriorated during their service period and finally it would be broken. In case of Breakdown Maintenance, structure will be repaired after broken. Therefore, repair cost would be increased and long durability of structure would not be expected. On the other hand, in case of preventive maintenance, defects on structure should be found on the early stage and they will be repaired as the proactive approach. As a result of quick action to defects, repair cost would be hold down and long durability would be expected. Bridge should be properly maintained by the preventive maintenance. In this process, inspection plays the most important role to find defects on the early stage.

**Figure 2-1**  
**Deterioration of structure**



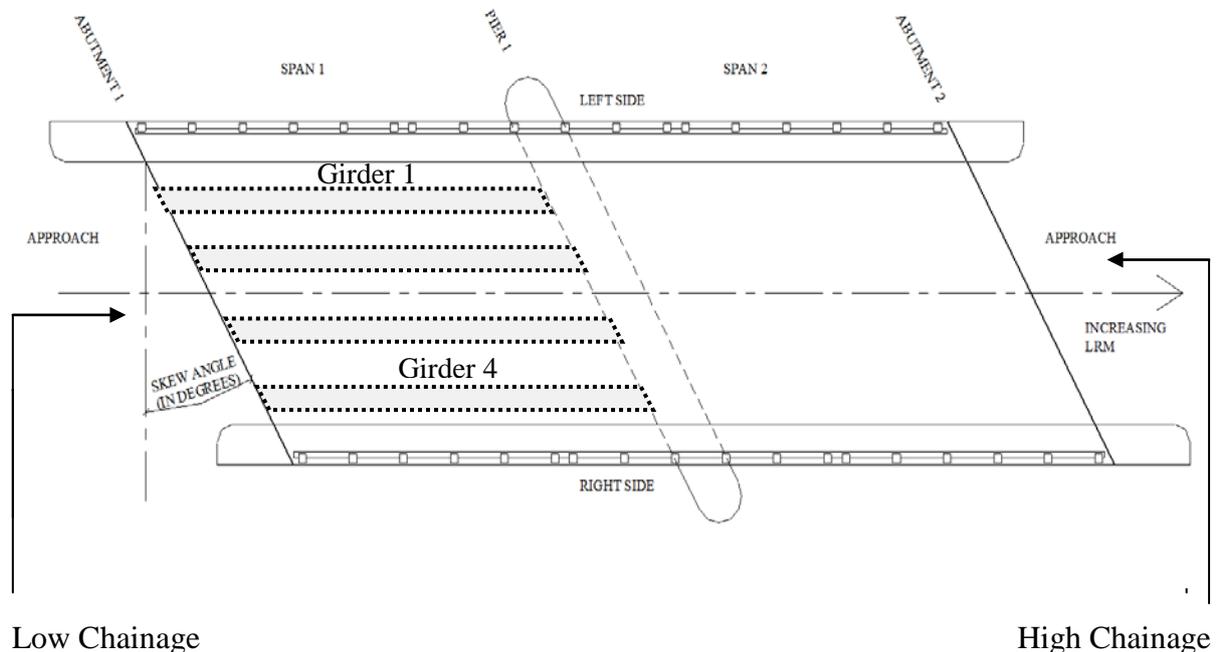


### 2.3. Bridge Geometry Definition

The standardized geometrical definition in the BMS Manual has been adopted by this Manual which is based on the Local Referencing System (LRS) used by the DPWH. The bridge is assessed in the direction of increasing chainage. Refer to Figure 2-2.

#### 2.3.1. General

**Figure 2-2**  
**Bridge Geometry Definition**



The following standard abbreviations are adopted to describe a bridge:

|    |   |               |
|----|---|---------------|
| HC | - | High Chainage |
| LC | - | Low Chainage  |
| S  | - | Span          |
| P  | - | Pier          |
| A  | - | Abutment      |
| G  | - | Girder        |

Example, a three (3) span bridge with 4 girders in each span:

- Abutment 1 (A1) is at the low chainage end of the bridge and Abutment 2 (A2) is at the high chainage end.
- Spans 1 (S1), 2 (S2) and 3 (S3) numbered from the low chainage end of the bridge.



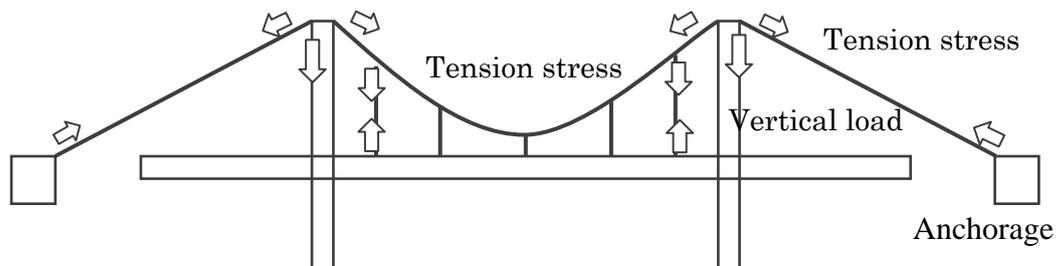
- Piers 1 (P1) and 2 (P2) numbered from the low chainage end of the bridge.
- The first girder on the extreme right hand side (looking in increasing chainage) in Span 1 is designated as Span 1- Girder 4 (S1G4).
- The girder on the extreme left in span 2 is designated as Span 2- Girder 1 (S2G1).

Abutments 1 and 2 may be named Abutment A and B respectively in DPWH bridge drawings.

### 2.3.2. Suspension Bridge

A Suspension Bridge is a type of bridge which the deck is hung below main suspension cables connected by hanger ropes. Main suspension cables are suspended between towers and have group of parallel wires bundled together to support the stiffening girders/trusses. Any load applied to the bridge is transformed into tension in main suspension cables through hanger ropes and transferred to tower as a vertical load. The tower which supports the main suspension cables transmits the vertical loads to the foundation through piers. Main suspension cables must be anchored at each end of the bridge to hold tension stress. So main suspension cables and anchorages are the most important members to support the whole structure.

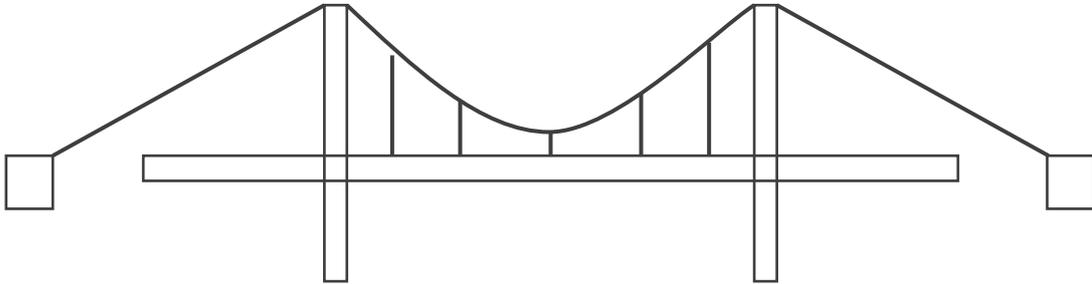
**Figure 2-3**  
**Load Distribution System for Suspension Bridge**



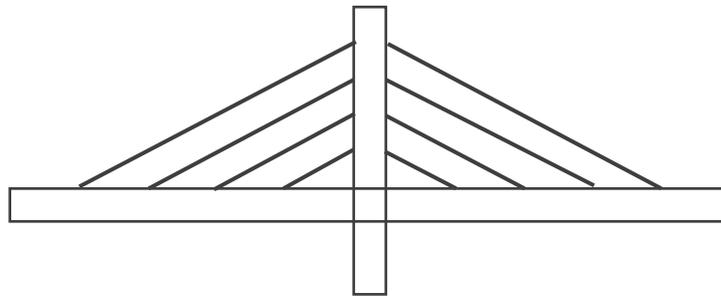
Suspension Bridge is similar to Cable Stayed Bridge that supports girders by cables and likewise has high tower. However, these two bridges support the load of the deck in different ways. The difference is how the cables are connected to the towers. In Suspension Bridge, the cables are installed across the towers, transmitting the load from deck to the towers down to the anchorages. In Cable Stayed Bridges, the cables are attached only to the towers to support the load.



**Figure 2-4  
Suspension Bridge**



**Figure 2-5  
Cable Stayed Bridge (Harp Design)**



Suspension bridges are classified into single-span, three-span suspension with two towers and multi-span suspension with three or more towers. Magapit Bridge (Pilot Bridge) is the common single-span suspension type.

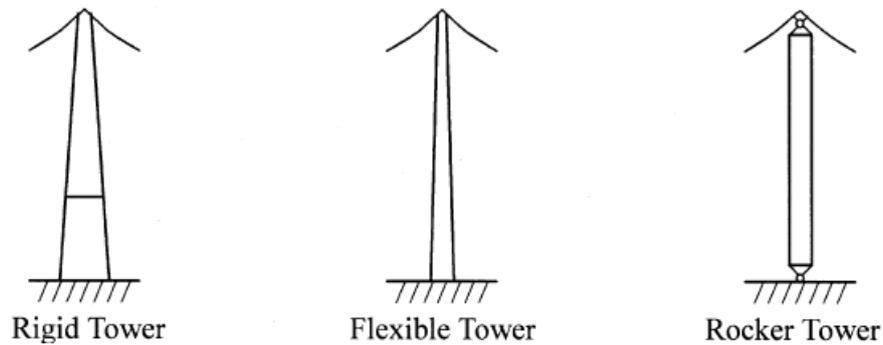
**Figure 2-6  
Types of Suspension Bridge**



Towers are classified into rigid, flexible, or rocker types. Flexible towers are predominantly used in long-span suspension bridges, rigid towers for multi-span suspension bridges to provide enough stiffness while rocker towers are used for short-span suspension bridges such as Magapit Bridge.

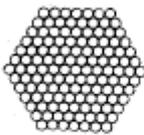


**Figure 2-7**  
**Types of Tower**



Chains, eye-bar chains or other materials were used for the main suspension cables in early Suspension Bridge while wire cables are used for modern Suspension Bridge. Galvanized steel wires have been used in almost all modern long-span Suspension Bridges like Magapit Bridge. Hanger ropes can be steel bars, steel rods, stranded wire ropes, parallel wire strands and others. Stranded wire ropes are often used in modern Suspension Bridge like Magapit Bridge.

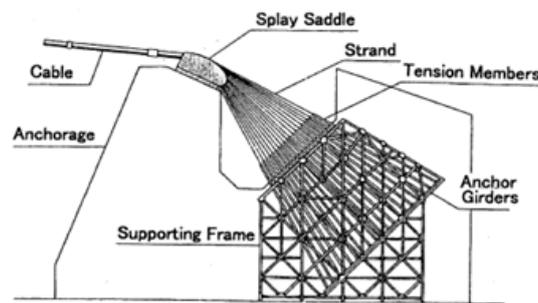
**Table 2-1**  
**Types of Cable**

| Name                 | Shape of section  | Structure   |
|----------------------|---|---|
| Parallel Wire Strand |  | Wires are hexagonally bundled in parallel.                              |
| Strand Rope          |  | Six strands made of several wires are closed around a core strand.      |
| Spiral Rope          |  | Wires are stranded in several layers mainly in opposite lay directions. |
| Locked Coil Rope     |  | Deformed wires are used for the outside layers of Spiral Rope.          |



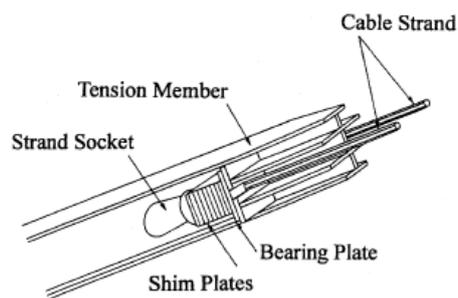
Anchorage structure includes foundation, anchor block, bent block, cable anchor frames and protective housing. Anchorages are classified into gravity or tunnel anchorage system. Gravity anchor relies on the mass of the anchorage to resist the tension of the main suspension cable while tunnel anchorage transfers the tension directly to the ground. Magapit Suspension Bridge adopted the common type of anchorage used in suspension bridges which is the gravity type.

**Figure 2-8**  
**Example of Anchorage**



Cable strands are anchored in the cable anchor frame which is embedded into the concrete anchorage.

**Figure 2-9**  
**Plate System Method**

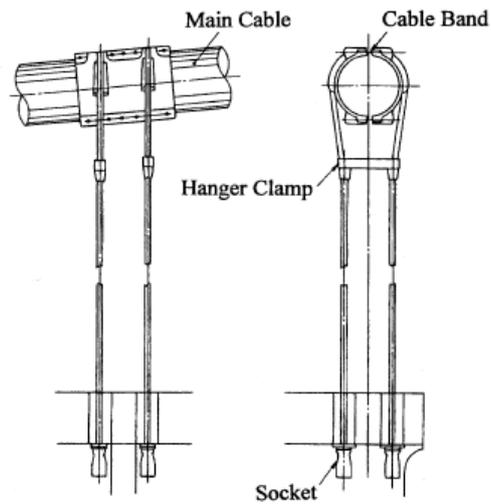


PS method

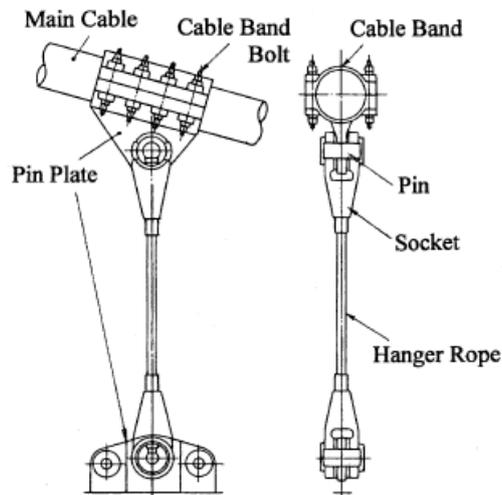


Hanger ropes are fixed to the main suspension cable with cable bands.

**Figure 2-10**  
**Type of Cable Band**



**Bearing connection**

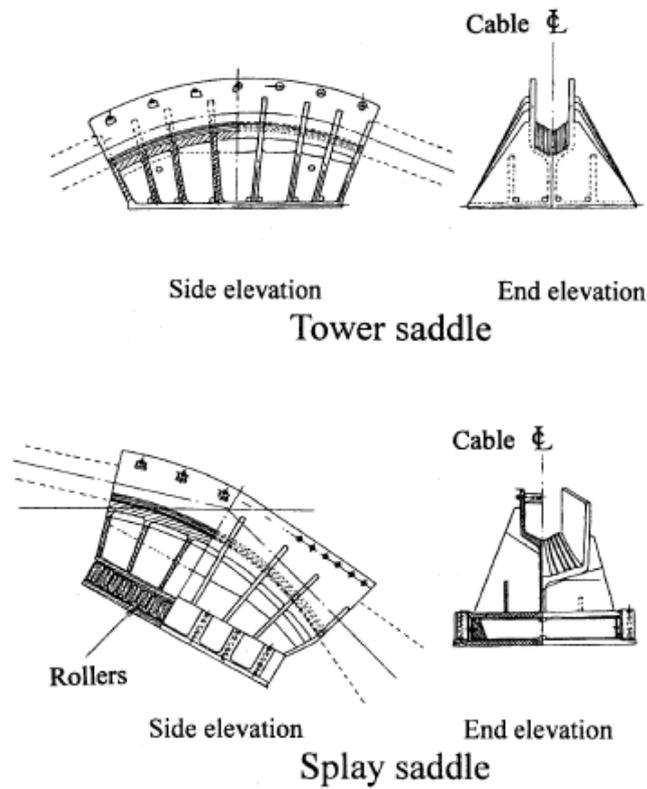


**Pin plate connection**



Tower saddle supports the main suspension cable at the towers while splay saddle at the splay bents in the anchorages.

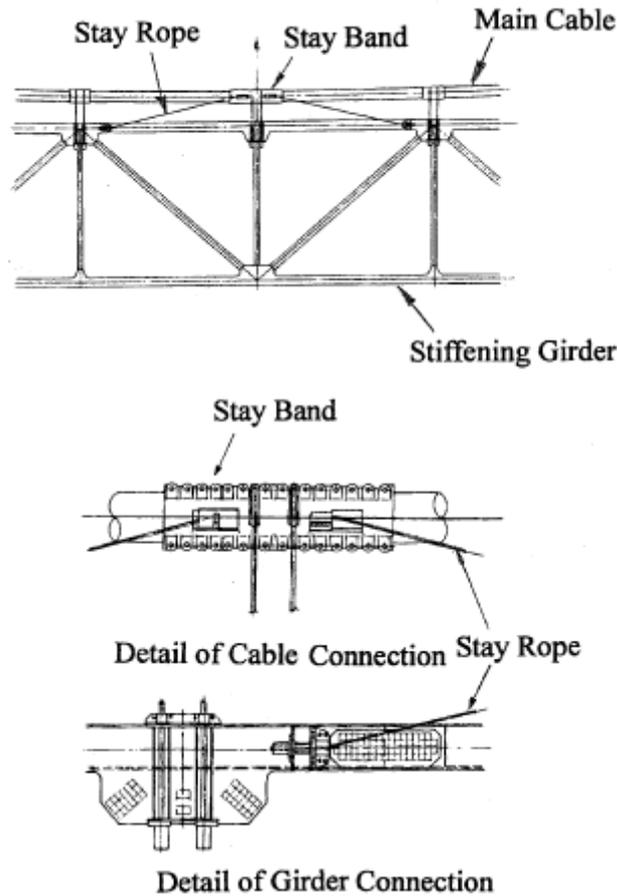
**Figure 2-11**  
**Types of Saddle**





Stay cables/ropes fixed the main suspension cables and the stiffening girders/trusses to restrict longitudinal displacement of the girder due to wind, earthquake and temperature changes.

**Figure 2-12**  
**Stay Band**



Shown in Figure 2-13, 2-14, 2-15, 2-16, 2-17, 2-18 and 2-19 are the General Views of Magapit Bridge.



Figure 2-13 General View (1 of 7)

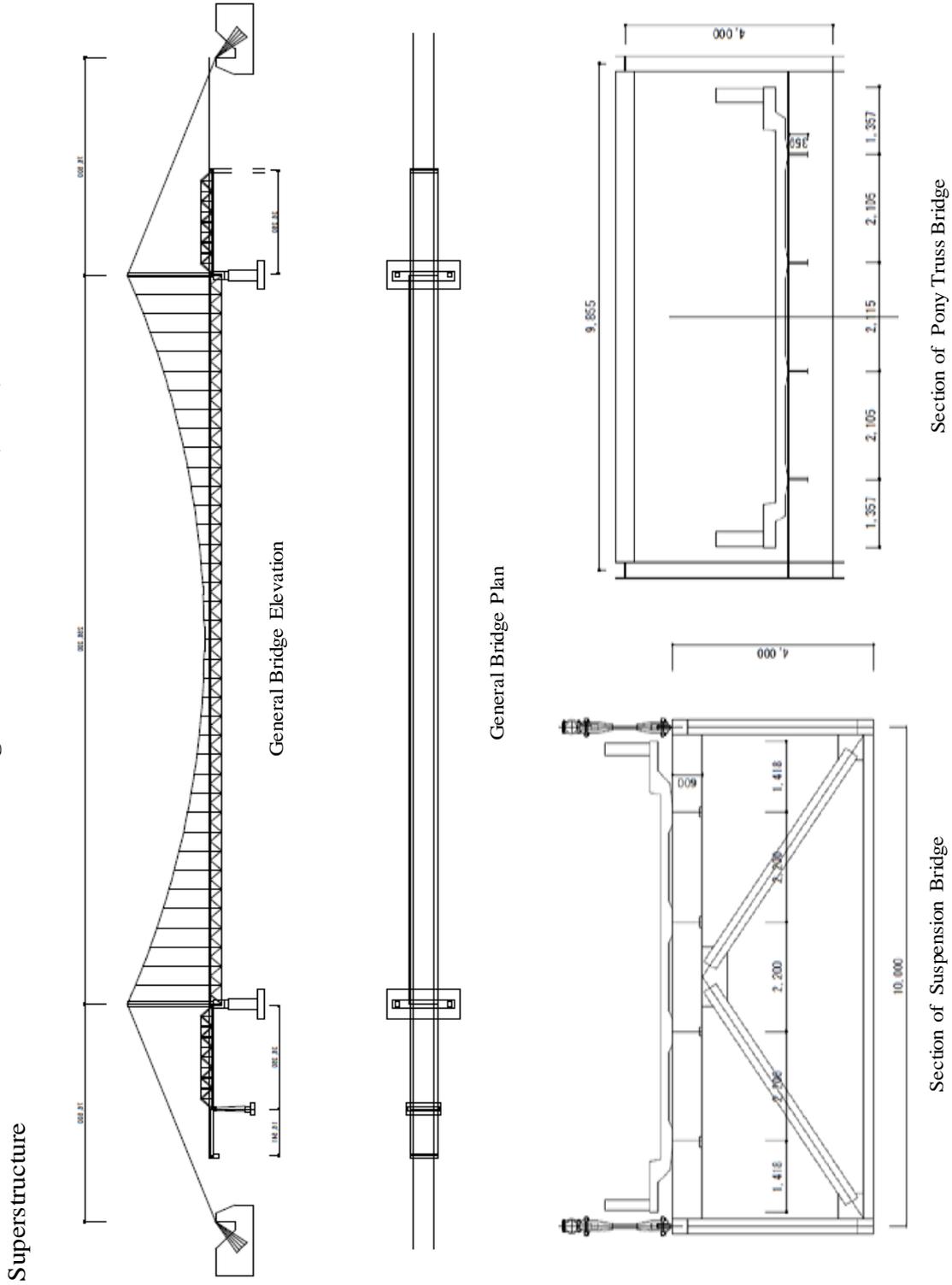




Figure 2-14 General View (2 of 7)

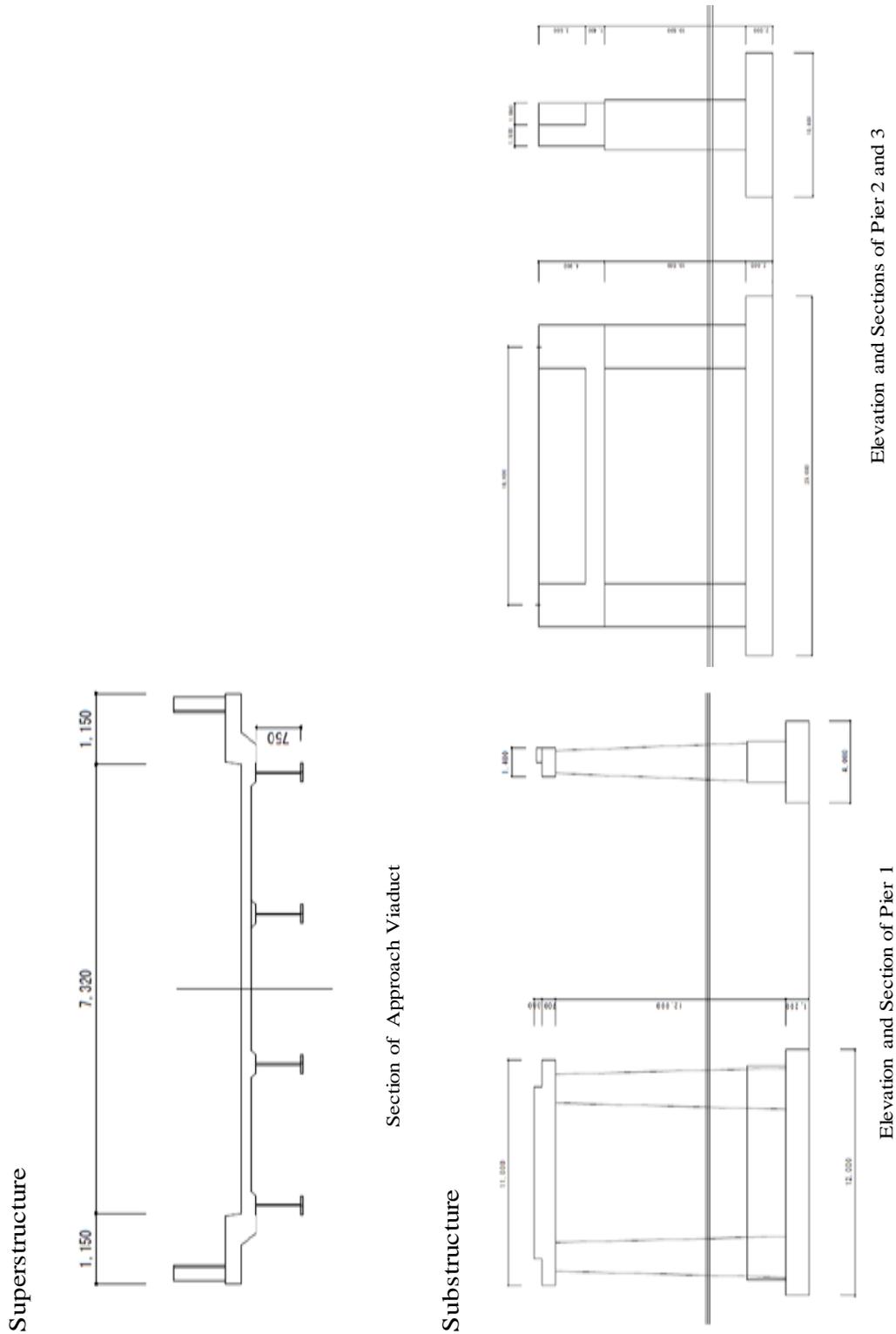




Figure 2-15 General View (3 of 7)

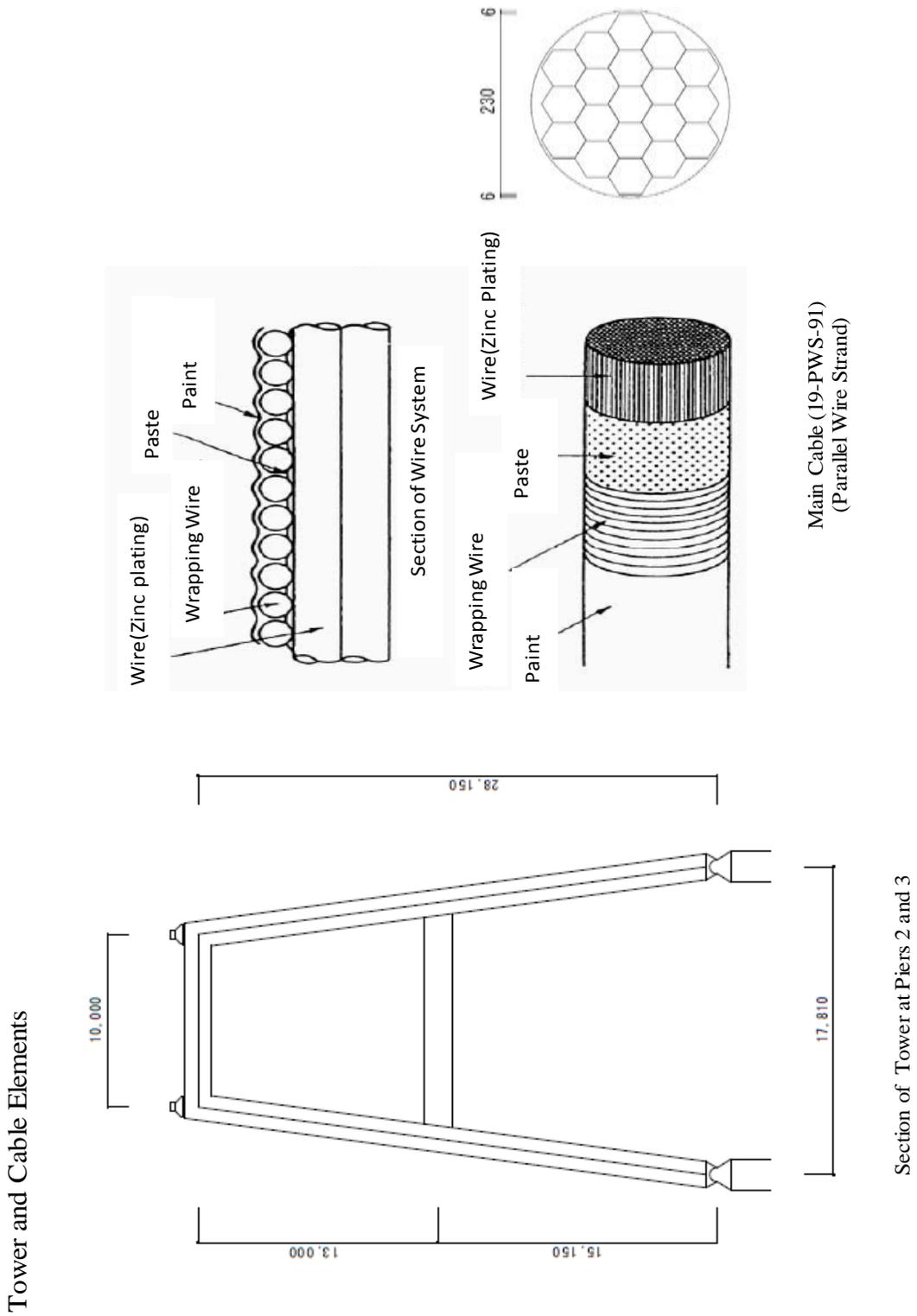




Figure 2-16 General View (4 of 7)

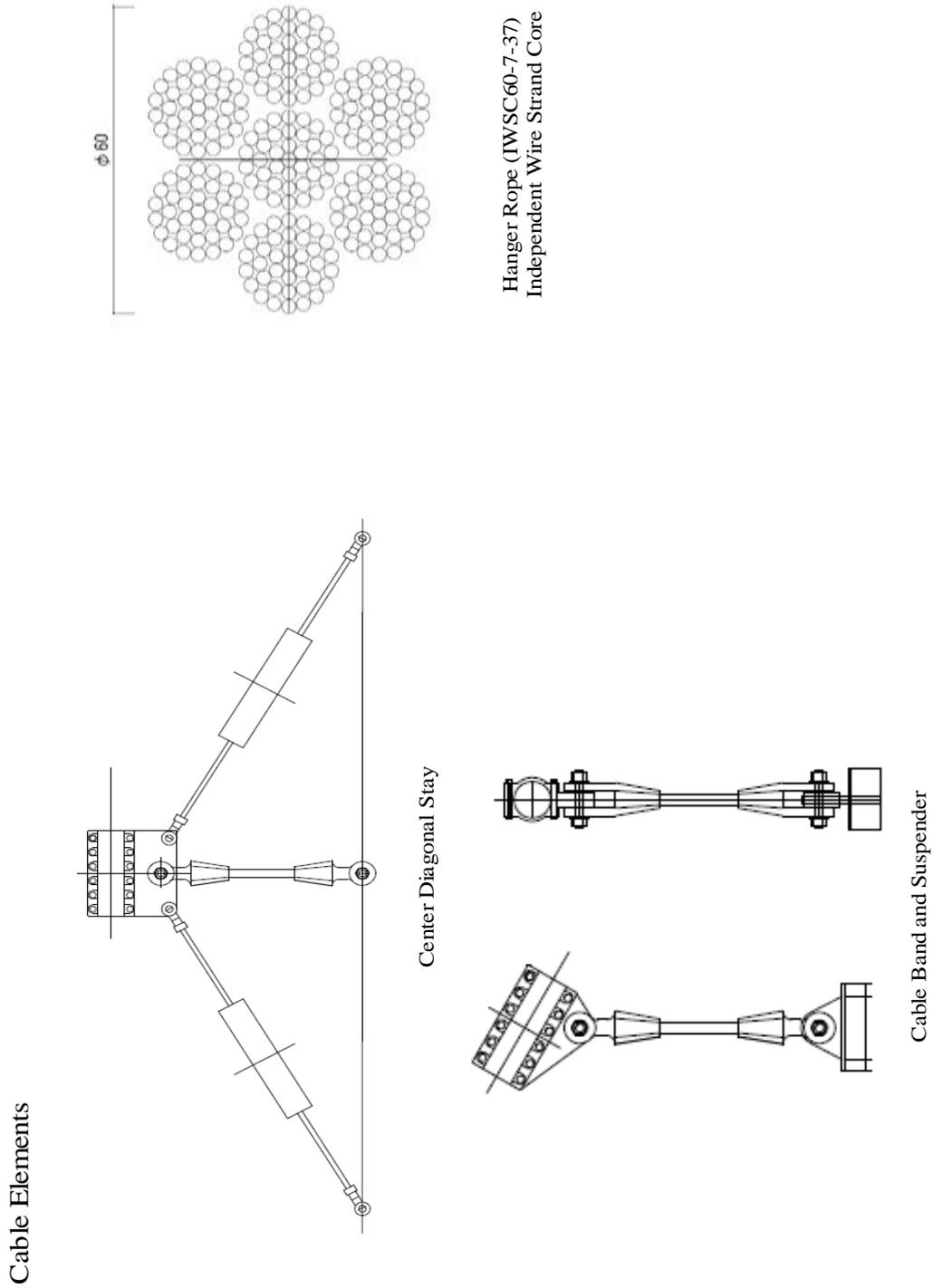
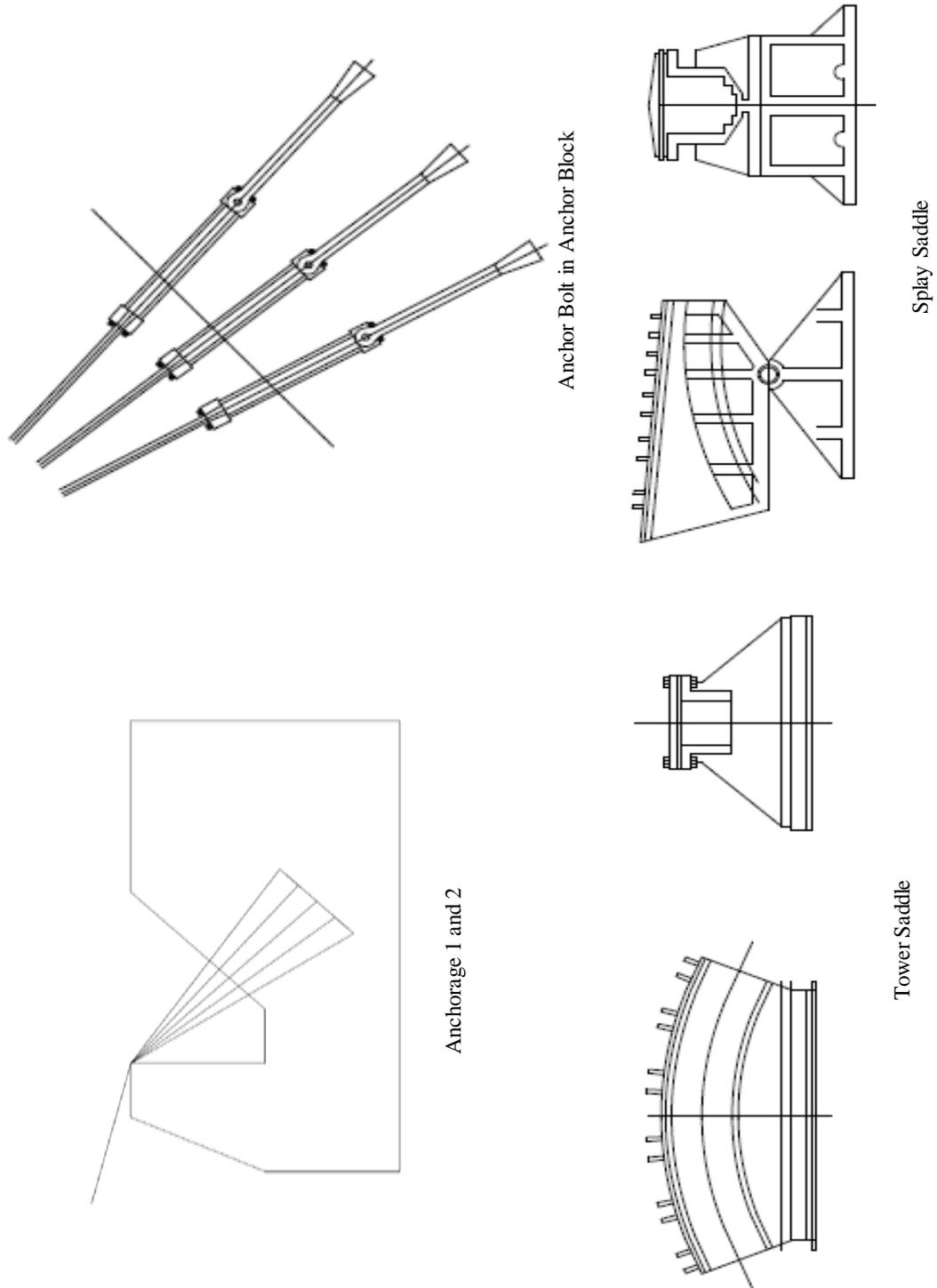




Figure 2-17 General View (5 of 7)

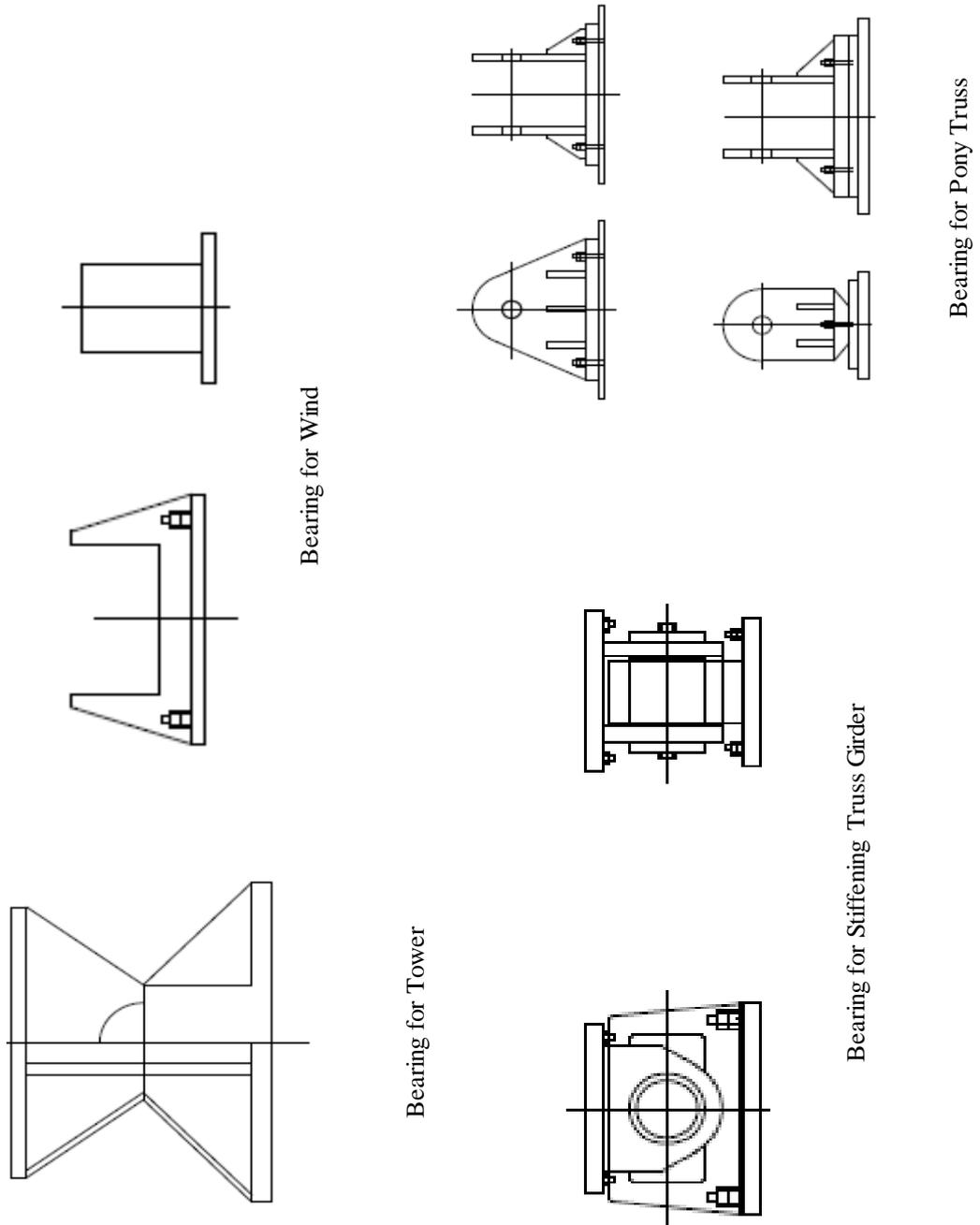
Cable Elements





Bearing

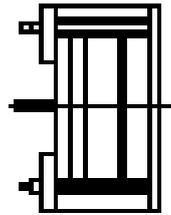
Figure 2-18 General View (6 of 7)



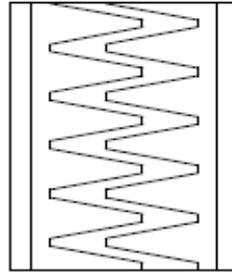


**Figure 2-19 General View (7 of 7)**

Bearing and Expansion Joint



Bearing for Approach viaduct



Expansion Joint



## **2.4. Inspection Planning**

### **2.4.1. General**

Regular and thorough inspection is essential to develop appropriate programs. Without proper preparation and resources, an inspection can be hampered.

Careful planning is required for the smooth implementation of any inspection program, to get an accurate and complete assessment of the bridge structures, and to ensure cost efficient inspections.

### **2.4.2. Inspection Program**

The first step in planning is to develop an inspection program. This program contains list of all bridges to be inspected in the Regional or District Engineering jurisdiction and the time frame for the completion. Hence, appropriate resources can be determined to suit the program. Throughout the inspection program, activity should be monitored so that budget and time constraints are met.

Special/long span bridge is a complex structure with complicated design. There are inspection ways, box type shape members or attributes which should be inspected inside, climbable tower and so on. Before going to bridge site, the inspection route and schedule should be planned. Proper numbering of elements and attributes to avoid misinterpretation on the location of the defects is necessary.

When developing an inspection program, external factors should also be considered.

These include:

- Traffic restrictions
- Access difficulties (e.g., waterways, terrain, buildings, built-up areas, combined bridges)
- Safety of personnel undertaking the inspection
- Specialized equipment or personnel such as divers that may be needed
- Water level restrictions(i.e., tide level)

If the inspector is not familiar with the site and other external factors, a site visit is important.



### **2.4.3. Bridge Details and History**

Prior to the inspection, the inspector should review all available information relative to :

1. Type of bridge
2. Maintenance history
3. As Built Drawings
4. Previous inspection reports
5. Photographs

Copies of the above-listed information for the bridge should be properly managed and stored in the Regional Office.

In particular, As Built Drawings is important for the understanding of the special/long span bridge. Each bridge has its own unique structure. There is no standard drawing in the special/long span bridge. Before the arrangement of inspection, “As-Built Drawing” should be collected and electronic data should be installed in Special Bridge Inventory Database.

Inspectors should check the As Built Drawings to confirm the details of the structure and to make check points sheets before the implementation of bridge inspection.

In the absence of “As Built Drawings”, it is recommended to collect bridge data from “Contract Drawings” or from documents of past rehabilitation works. In case there is no available bridge data, measurement survey on site for collecting basic bridge data and general drawings for inventory should be done.

Example drawings by measurement survey in Biliran and Liloan Bridge which have no As-Built Drawings, are attached in Appendix B.

The information mentioned above shall be reviewed prior to the inspection, so that the inspector who undertakes the inspection is aware of critical areas, previously encountered problems or unusual features.

A copy of the previous inspection reports and any other relevant information shall be brought to the bridge site for reference during the inspection.

### **2.4.4. Resource Requirements**

In order to perform proper and efficient inspection, appropriate equipment and manpower should be readily available. List of equipment required is included in Table 2-2 and this should be carefully considered prior to inspection. It may also be necessary to arrange specialized equipment on a case-to-case basis. These include scaffolding, bridge inspection vehicle, boats, testing equipment, etc.



**Table 2-2**  
**Equipment for Visual Inspection (Routine and Condition Inspections)**

1. Safety Vest
2. Safety Shoes
3. Shirt with long sleeves and Pants
4. Hard hat with Flashlight
5. Hand Gloves
6. Hand Mirror for viewing behind bearings, etc.
7. Geologist's Hammer
8. 40-Meter Measuring Tape
9. 3-Meter Measuring Tape
10. Binoculars
11. Crayon and Chalk for marking and for blackboard
12. 35-70 MM Zoom Digital Camera with date feature
13. Inspection Forms
14. Sketch Drawing Form
15. Copy of previous report
16. First-Aid Kit
17. Bridge Inspection Vehicle (BIV)
18. Shovel and Broom
19. Extension Ladder
20. Boat or Barge
21. Crack Gauge
22. Wire Brush
23. Scotch Tape (inspection for weathering steel)
24. Oxygen Detector

#### **2.4.5. RBIA and Special Bridge Inventory Database**

The RBIA is the main depository of DPWH for the information of the inventory and condition data on standard bridges located along national roads. The data inputted in the RBIA should always be assessed for current inventory and condition reports and other relevant data by the inspector who undertakes the inspection. However, it is intended mainly for standard bridges, and not for special/long span bridges. The Inventory information and inspection data of special/long span bridge should be collected and uploaded to the Special Bridge Inventory Database. DPWH Central Office and every Regional Office should manage this database and update it regularly.

Flowchart for the Special Bridge Inventory Database is shown in Appendix C.

In some cases, there are discrepancies between the data in the Database and the actual data of bridges due to modification made (e.g., provision of alternative railings, construction of replacement bridges). The responsible BMS Regional Coordinators shall ensure that all special/long span bridges are included in the Database and update, if necessary.



#### **2.4.6. Inspection and Sketch Drawing Forms**

Inspection for special/long span bridge (e.g., Cable Stayed Bridge, Suspension Bridge and so on) is individually arranged, because it has unique design compared to standard bridges.

Prior to the conduct of the inspection, the Inspection and Sketch Drawing Forms will be prepared in advance. All available information relative to the bridge can be viewed and printed out from the database. Also data gathered will be uploaded in the database by inspectors and/or coordinators.

The initial data shown shall be checked for correctness during the bridge inspections, and corrections made or missing information added as necessary.

### **2.5. Safety**

#### **2.5.1. General**

For the protection and safety of workmen, public and environment, safe work practices are essential on every work site.

The following safety aspects apply to bridge inspection work and must be considered prior to commencement of any inspection:

- Road safety
- Work safety
- Public safety

Health and safety have a high priority at all times during field operations. All statutory rules and regulations and recommended safety practices given in this manual are for general guidance in planning for safety at all the worksites. Common sense should be used in anticipating the particular safety requirements for each and every project to be undertaken.

#### **2.5.2. Road Safety**

Working on or near roads is extremely hazardous. The following rules must be explained to, and observed by, all personnel working on or near the roadways:

1. Before commencing inspection at the site ensure that:
  - All personnel are wearing high visibility vests;
  - Every worker knows the direction of traffic running on all the lanes;
  - Every worker knows where to take refuge if a vehicle approaches;
  - Unprotected or unsafe areas and roads are identified to all personnel.



2. Always walk in the direction facing oncoming vehicles. (The vehicles should not come from behind you.)
3. Whenever crossing roads (whether single lane or many), make sure that all the lanes are clear before crossing.
4. When operating any plant or machines on or near a road:
  - Before commencing work make yourself aware of potential hazards such as adjacent roads, overhead power lines, other workers, etc. Always anticipate danger.
  - Never step backwards without looking. Under the noise of your machine, you may not hear the sound of approaching vehicles.
  - Never climb out of a machine without looking in both directions.
  - Never climb out of a machine onto a road or non-protected area.

### **2.5.3. Work Safety**

Work safety must be planned ahead. Before commencing work, the inspector shall observe the following:

1. Be familiar with the full requirements of the inspection work including scaffoldings and access equipment.
2. Ensure that all tools and equipment/machine are available and in good working condition.
3. Prepare any required safety devices and paraphernalia (harnesses, mountain shoes, gloves, earmuffs, eye protection glasses, masks, hard hat, and other related items) necessary for safety of the inspectors.
4. Plan and arrange road closures and suitable traffic management procedures.
5. Identify and locate all the utilities existing at site (e.g. water pipelines, electricity, communication lines, gas pipelines, etc.). If any utilities are affected by inspection process, take measures in advance to protect or relocate it through proper authorities as necessary.
6. Ensure that first aid kit is available at site and that at least one of the personnel is knowledgeable in giving first aid treatment.
7. In the case of very risky situations (i.e. high structures, inside box girder, etc.), inspection is always conducted by pairs.



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8. All inspections are carried out in well-ventilated/lighted areas. When inspection is conducted in closed areas, inspection gates should be opened for ventilation beforehand. Also, density of oxygen and detection of harmful gas should be measured. If necessary, prior arrangements for exhaust fans and artificial lighting should be conducted.

General information about Asphyxia and low oxygen is shown in Appendix D.

9. When inspectors climb ladder, leap gap or walk inspection way in height, safety belt should be tied to rigid frame. Also, inspectors should not climb ladder up behind another person who is climbing ladder forward.
10. Do not allow personnel under the influence of alcohol or any medication which impairs alertness or causes drowsiness to work at site or operate any mechanical equipment.
11. Do not allow any person who is not qualified to carry out a particular task or to operate particular equipment.
12. Generally, all the work should be carried out in compliance with the existing industry's normal standards practice.

#### **2.5.4. Public safety**

There are obligations to take all necessary precautions and adequate measures for safety of public in and around the working area. The following steps should be taken to safeguard the public against any injury, loss of life or damage to property:

1. Attend immediately to any damage and deterioration that may cause loss of strength and stability of a structure and thereby may result in injury, loss of life or damage to property.
2. Take steps to support damaged structures against instability and collapse, as well as protect the adjacent properties, plant and utilities from possible damage.
3. Until damaged structures are made safe, close off all access and prohibit their use by the public by setting up suitable fences and barriers. With the assistance of the District Engineering Office, and the police if necessary, arrange to divert the pedestrian and vehicular traffic by alternative routes. Provide warning signs and hazard lights as necessary to caution the public of danger.
4. At the completion of the inspection, clean up all dirt and debris, remove all plant, equipment and materials and restore the facility to public.



## **2.6. Sketches and Photographic Record**

### **2.6.1. General**

An appropriate photographic and sketch record must be compiled for Routine and Condition Inspection Report.

1. Mandatory inventory photographs (front view, side view, and underside).
2. Deficient components and major defects.
3. Undefined components.

The Accredited Bridge Inspector is required to prepare a photographic/ sketch record of each structure. All photographs and sketches must be given a reference and details of the subject matter recorded in the Bridge Inspection Report.

### **2.6.2. Sketches Record**

Sketches of the damage can be made on Sketch Drawing Forms. The sketch should show the necessary plan and elevation views of the attribute to which they pertain. All damages should be located on the sketches by dimensioning their location in reference to the beginning or end of each attribute. For each damage, the Accredited Bridge Inspector should indicate dimensions showing its length, width, depth (if applicable) and also severity of defects. In particular, Sketch Drawing on the Condition Inspection should record the detail of defects, in order to monitor the deterioration of defects in the future. Forms of Sketch Drawing for Magapit Bridge are attached in this manual.

### **2.6.3. Photographic Record**

The result of an inspection must be reported to the District Engineering Office concerned. The Accredited Bridge Inspector should take photograph any major defects and append photographic prints to the report.

1. The prints should be annotated in accordance with the bridge component designations previously described.
2. Accredited Bridge Inspector must exactly take the photo of entire condition and defects condition on the bridges.
3. During the inspection, inspector must use the blackboard as well as ribbon rods/measuring tape for getting the detailed information.



4. The blackboard should be included in the photograph.
5. The Accredited Bridge Inspector should take photographs to obtain as much information as possible.
6. Photograph of defects must be taken for the worst condition rating.

The information required for Mandatory Inventory Photographs are as follows:

1. Photographic Record
2. Front View (low chainage): One general photograph from top of deck showing alignment, carriageway width, curbs and gutter, and railings.
3. Side View (each span) from upstream: One photograph from side of bridge showing piers, abutments and waterway or roadway.
4. Under the bridge (each span) from upstream: One photograph from under of bridge showing piers, abutments and waterway or roadway.
5. Representative photographs of main superstructure components (i.e. girders), from underneath or side of the structure, used in:
  - The original structure.
  - Any modifications (i.e. widening, lengthening, etc.)

## **2.7. Inspection Reports and Management of Special Bridges Inspection**

### **2.7.1. Inspection Reports**

After the completion of inspection, various reports should be submitted and stored in Bridge Inventory Condition (BIC) Stand Alone Program and Special Bridge Inventory Database. The details of deliverables of reports are shown in the chapter of each inspection.

- File the inspection report: Inspection forms, summary sheet, repair record and inspection result.
- Sketch drawings sheet
- Photo record sheet: Assemble photo data and match with sketch drawing sheet

### **2.7.2. Management of Special Bridge**

Special/long span bridges should be managed separately from standard bridges which could be inspected and repaired by lump sum budget. Regional Office and District Engineering Office should make the Medium Term Management Plan (next 5years); include Budget Estimation, Inspection Schedule, Planning of Routine and Major maintenance and



Implementation Schedule.

Management of Special/Long Span Bridges :

- Special/long span bridge should be managed properly by Medium Term Management Plan (next 5 years)
- Analysis of the result of inspections (Inventory, Routine, Condition, etc)
- Preparation of the maintenance management plan for each specific bridge
- Estimation of the cost of inspection, routine and major maintenance works, etc)





### 3. ROUTINE INSPECTION (TYPE 1)

#### 3.1. Purpose

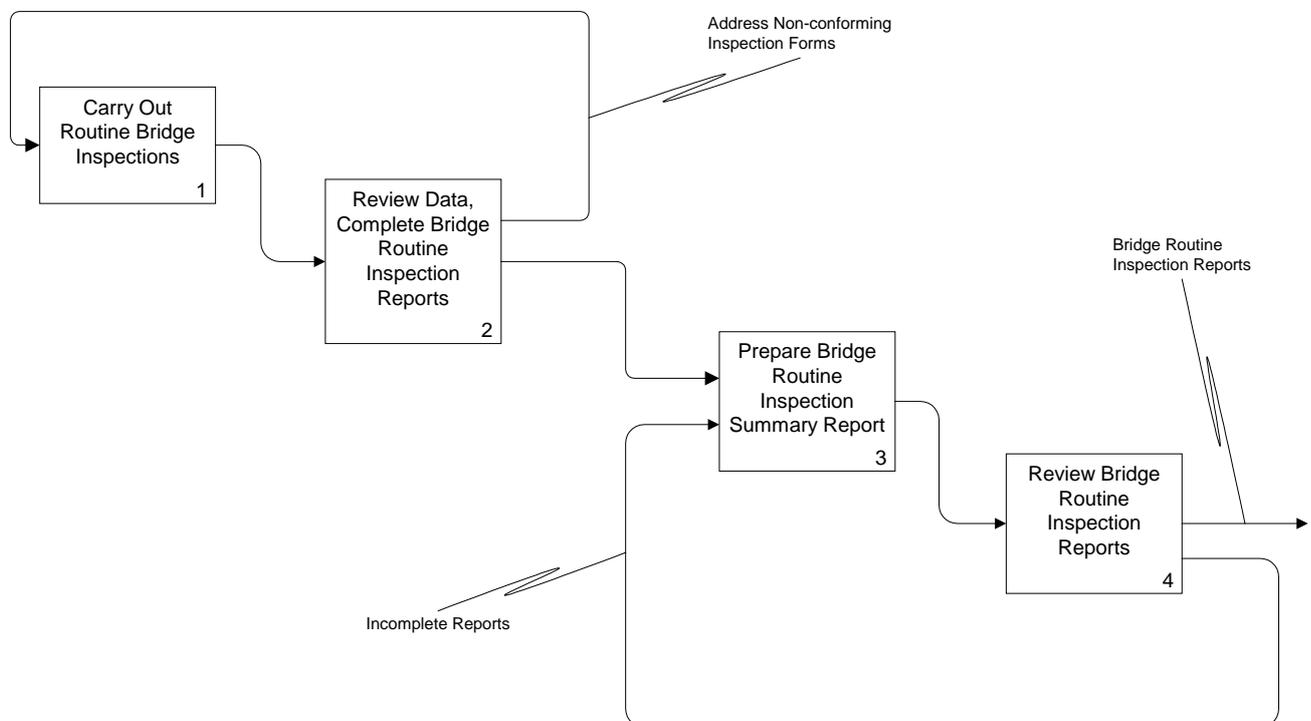
Routine Inspection is essentially a visual inspection that requires assessment of obvious defects on the special/long span bridge.

This inspection is necessary to ensure that regular routine maintenance work is being planned and undertaken in accordance to the needs of the bridge. Routine inspection should also detect severe defects that may cause loss of stability of the structure and may result to injury or loss of life and damage to property. Routine inspection is important for taking emergency works to avoid collapse of the bridge and damage to a third party.

#### 3.2. Process

The process for conducting Routine Inspection (Type 1) is shown in Figure 3-1.

**Figure 3-1**  
**Routine Inspections (Type 1)**





### 3.3. Procedure

The procedure in accomplishing Routine Inspection Forms and sketch drawings by the District Engineering/Regional Office should be straightforward. It involves visual inspection to address several standard items listed on the Inspection Results in Bridge Routine Inspection Form (Type 1).

As a reference, the Bridge Routine Inspection Routes are shown in Figures 3-2 and 3-3 while the Check Points of Routine Inspection are shown in Figures 3-4, 3-5 and 3-6. Routine Inspection forms and sketch drawings of Magapit Bridge are shown in Appendix E. The copy of above mentioned documents and the latest routine inspection report should be brought to the site as reference.

In the case of Routine Inspection, inspectors walk through upper level on pavement and ground level around piers and abutments. Inspectors should find common defects for Routine Maintenance according to the sheet of check points and also severe damage for Emergency Work. Check points of Routine Inspection show typical defects on each attributes which are limited compared with Condition Inspection.

One of the check point is the abnormal condition of the rope. It should be investigated carefully corresponding to the shape, alignment, proportion and color even in the time of Routine Inspection, because it is one of the most important attributes for the stability of structure.

The Bridge Inspector should check the defects and draw them on Sketch Drawing Forms and photographs should be used to document any major defects.

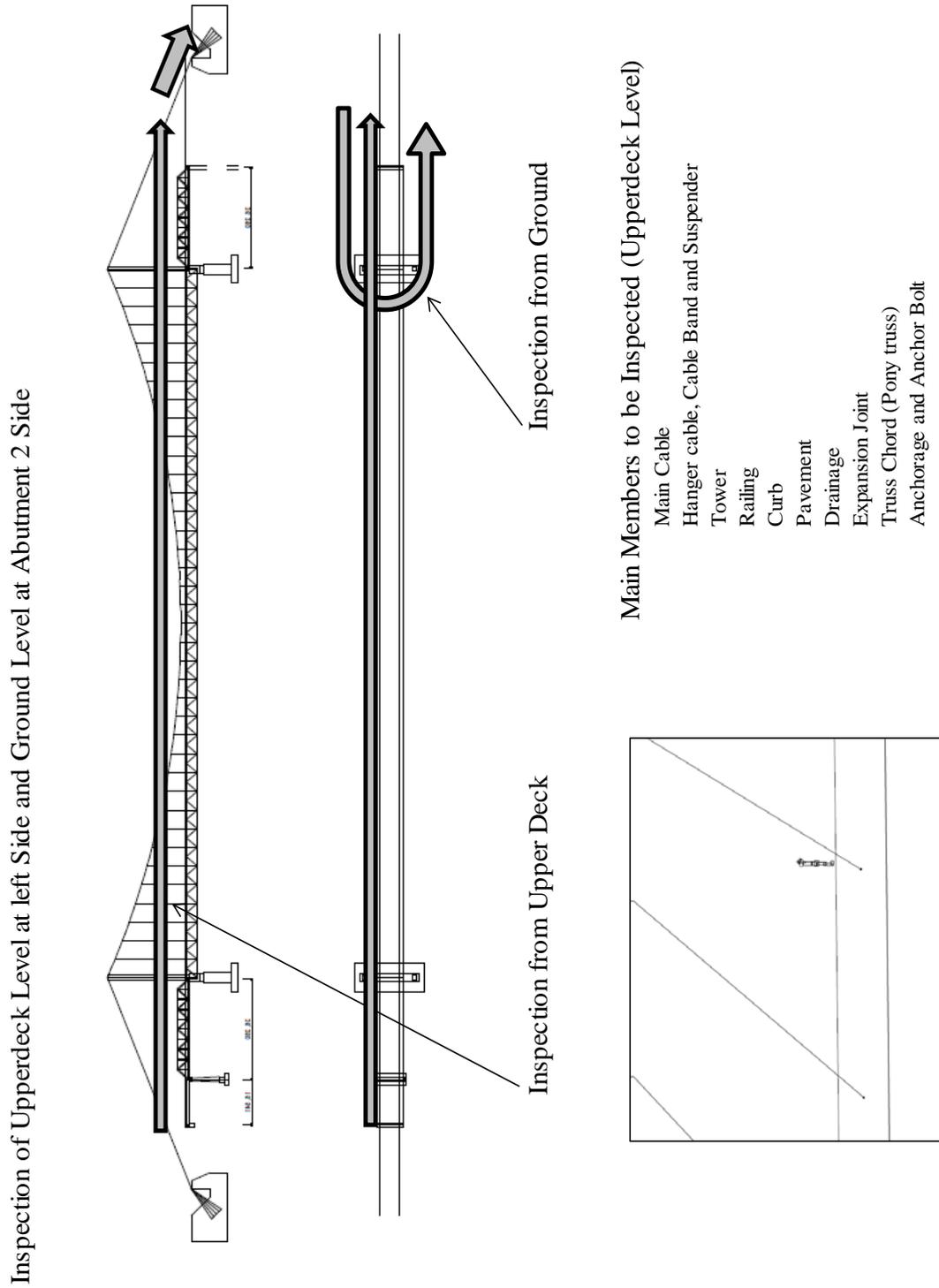
Upon return to office, inspectors select Condition Rating and Required Maintenance Action Plan based on the severity of defects. The result of inspection should be compiled as a deliverable and submitted to concerned offices. If there are any defects that need Emergency Action (EA) as a required maintenance actions, it must be reported immediately to the head of office without waiting for the completion of the written report.

Any changes to the routine maintenance report should be made by amending the copy in RED ink. Should there be any doubt in relation to the bridge condition and required major maintenance, a Condition Inspection of the structure or Emergency Inspection should be immediately undertaken.

Condition Rating for Routine Inspection and Required Maintenance Actions for each defect are shown in Tables 3-1 and 3-2.



**Figure 3-2 Routine Inspection Route (1 of 2)**





**Figure 3-3 Routine Inspection Route (2 of 2)**

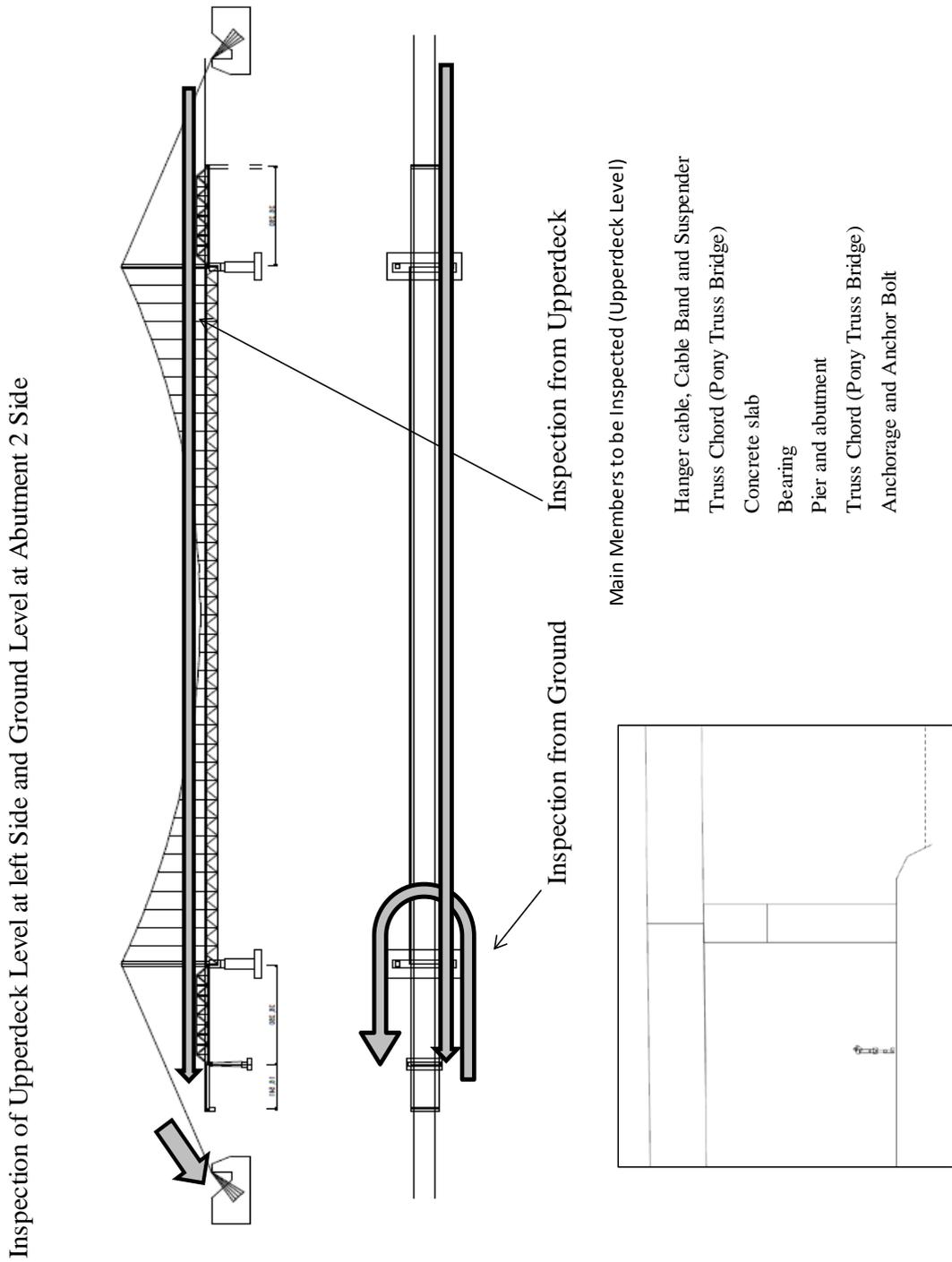




Figure 3-4 Check Points of Routine Inspection (1 of 3)

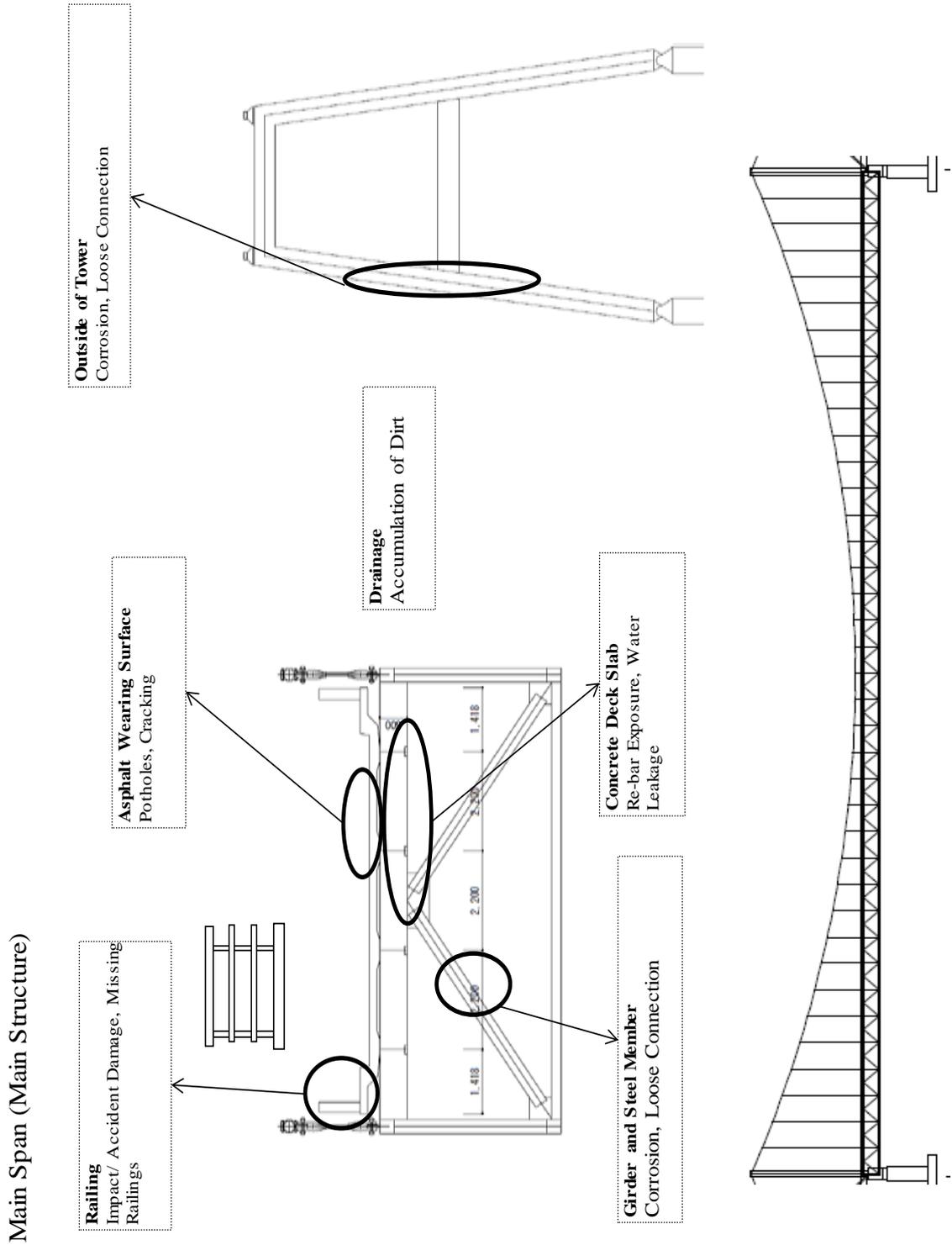




Figure 3-5 Check Points of Routine Inspection (2 of 3)

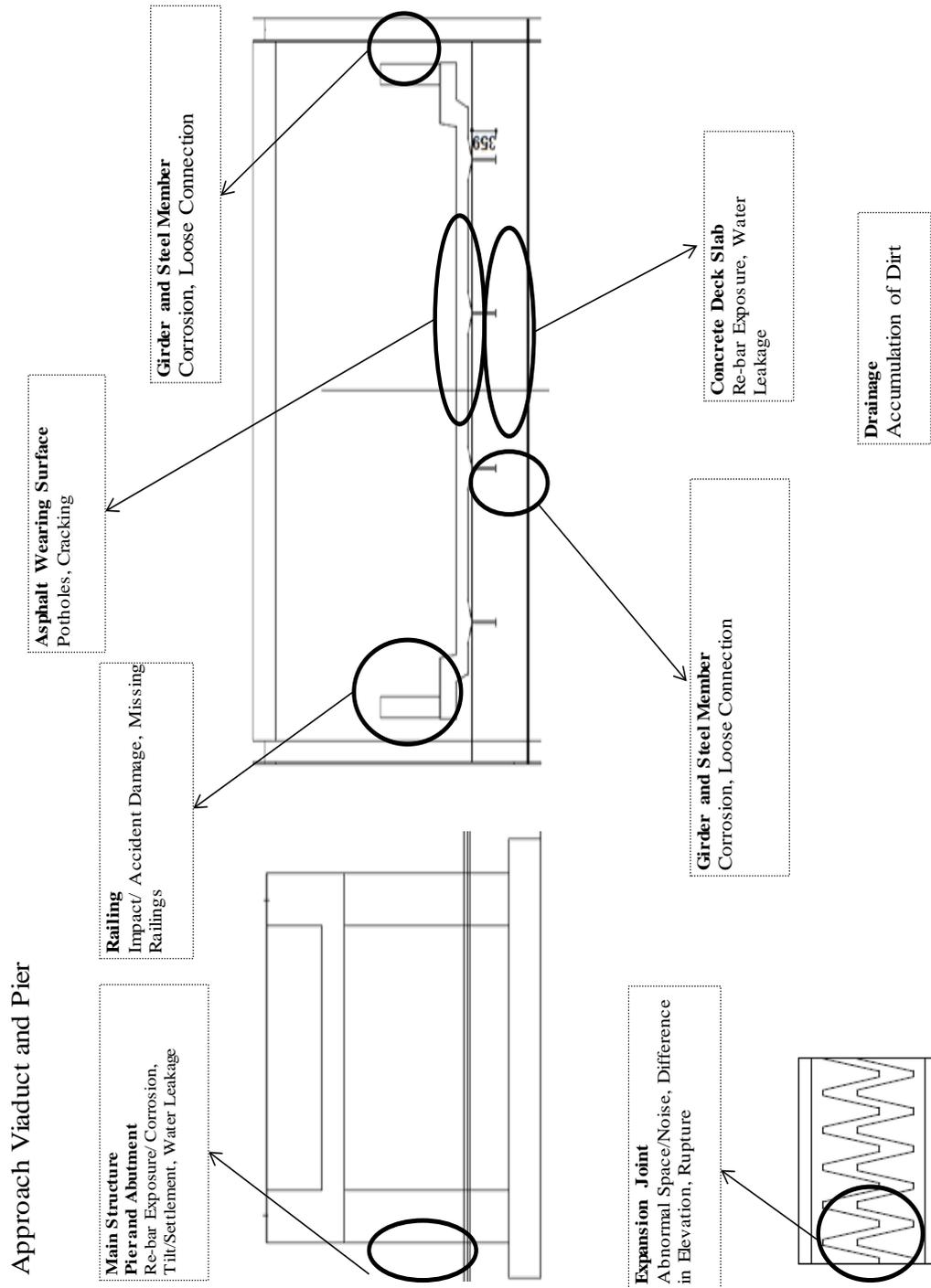
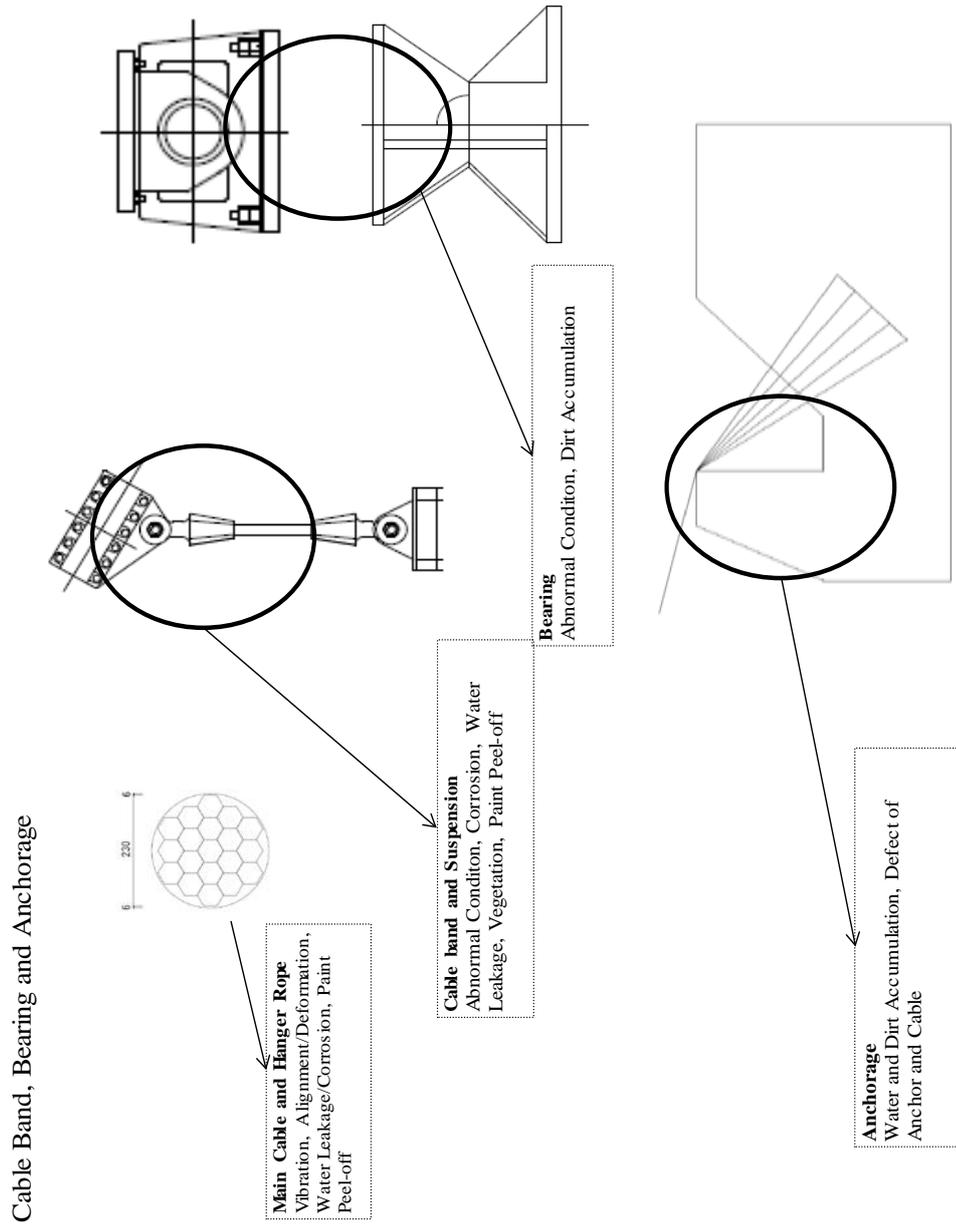




Figure 3-5 Check Points of Routine Inspection (3 of 3)





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**Table 3-1**  
**Condition Rating for Routine Inspection**

| Rating | Condition  |
|--------|--|
| Good   | No damage  |
| Fair   | Minor damage(s) not affecting the stability of the structure                                       |
| Poor   | Deteriorating damage(s) which should be repaired, as a preventive action                           |
| Bad    | Severe damage(s) affecting the stability of the structure or has possibility to harm a third party |

**Table 3-2**  
**Required Maintenance Actions**

| Required Actions        | Condition   |
|-------------------------|---|
| M- Monitoring           | No repair work and keep monitoring (Damage not progressing or very slow)        |
| RM- Routine Maintenance | Should be maintained by Routine Maintenance                                     |
| MM- Major Maintenance   | Should be repaired by Major Maintenance   |
| EA- Emergency Action    | Need to take actions immediately to avoid bridge collapse or harm a third party |

### 3.4. Deliverables

The deliverables of Routine Inspection Report are as follows:

- Routine Inspection Report
  - Bridge Routine Inspection Form(Type1)
  - Summary of Routine Inspection Results
  - Repair Record
  - Inspection Results sheet
- Sketch Drawings sheet
- Photo record sheet (Pictorial Report)

The Bridge Routine Inspection Reports shall be prepared by the bridge inspectors. The report shall be checked and reviewed by the Regional Office for completeness and accuracy prior to finalization.

When the Bridge Routine Inspection Report would be completed, accurate and accepted, all the data shall be stored in Special Bridge Inventory Database.



#### **4. CONDITION INSPECTION (TYPE 2)**

##### **4.1. Purpose**

The purpose of the Condition Inspection is to record defects and rate the condition of special/ long span bridge as a basis for identifying its current maintenance needs, forecasting its future intervention measures and estimating its future funding requirements. Also, the result of Condition Inspection should be used to monitor the deterioration of defects.

##### **4.2. Scope of the Inspection**

The Condition Inspection includes:

- Reviewing the existing inventory data of the bridge structure for accuracy.
- Visually inspecting the bridge attributes and record their defects to assess their condition using a standard condition rating system.
- Sketch drawings to monitor the progress and deterioration of defects
- Reporting the condition of each bridge attribute.
- Providing a general condition rating for the structure as a whole.
- Identifying bridges that require an Engineering Inspection (those with an overall condition state of 2 or 3).
- A photographic record of defects.

In Condition Inspection, the inspector should record all details of defects for the assessment of bridge condition using a standard condition rating system and also for the monitoring of progress and deterioration of defects. Therefore, each attribute of the bridge shall be inspected at a distance at least three (3) meters from the surface of the attributes or its equivalent, using binocular as much as possible.

All surfaces of the attributes shall be exposed in good natural or artificial light during the inspection, sufficient to observe fine cracks and other defects on the surfaces. Bearings at the abutments and piers shall be inspected at eye level. The inside of towers shall also be inspected closely. The bridge inspection is done visually to cover all parts of the bridge above the ground and water level.

Sketch drawings in Condition Inspection is very important for the analysis of bridge condition and for the monitoring of deterioration of defects. Inspector should sketch carefully the details of defects. Sketch drawing of defects should include the range, length, area and severity of defect as much as possible. When inspectors cannot possibly measure the defects, they can roughly estimate measurement through their engineering judgment.

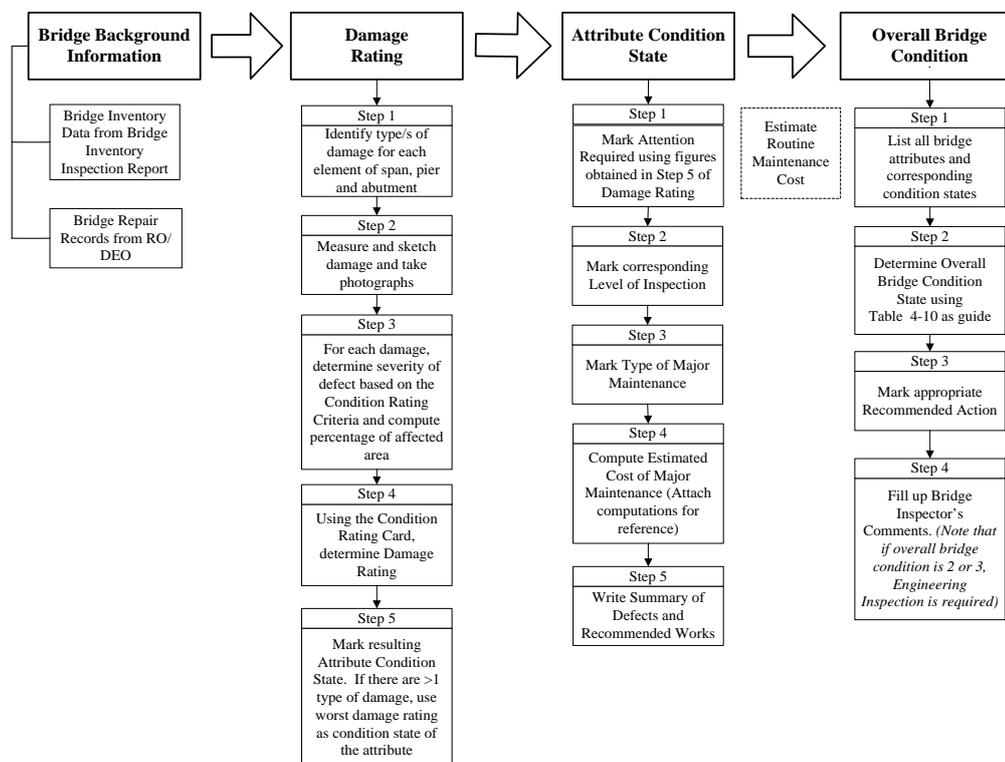




The step-by-step procedure for conducting the Condition Inspection is illustrated in the following flowchart.

Figure 4-2

Flowchart of Bridge Condition Inspection



#### 4.4. Procedure

##### 4.4.1. Condition Inspection Form

As a reference, Condition Inspection Forms (CIF) and Sketch Drawings of Magapit Bridge are shown in Appendix F.

The Bridge Condition Inspection Routes of Magapit Bridge are shown in Figures 4-3, 4-4, 4-5 and 4-6. The Check Points of the Condition Inspection are shown in Figures 4-7, 4-8, 4-9 and 4-10. As a breakdown, the CIF is composed of forms shown in Table 4-1.

Special/long span bridges are complex structures. Before conducting inspection, proper numbering of elements and attributes on the forms should be considered to avoid misinterpretation on its location. During inspection, each member shall be numbered/marked on each attributes for easy identification. Numbering and marking of members are shown in Figures 4-11, 4-12, 4-13, 4-14, 4-15, 4-16, 4-17, 4-18, 4-19 and 4-20.



**Figure 4-3 Condition Inspection Route (1 of 4)**

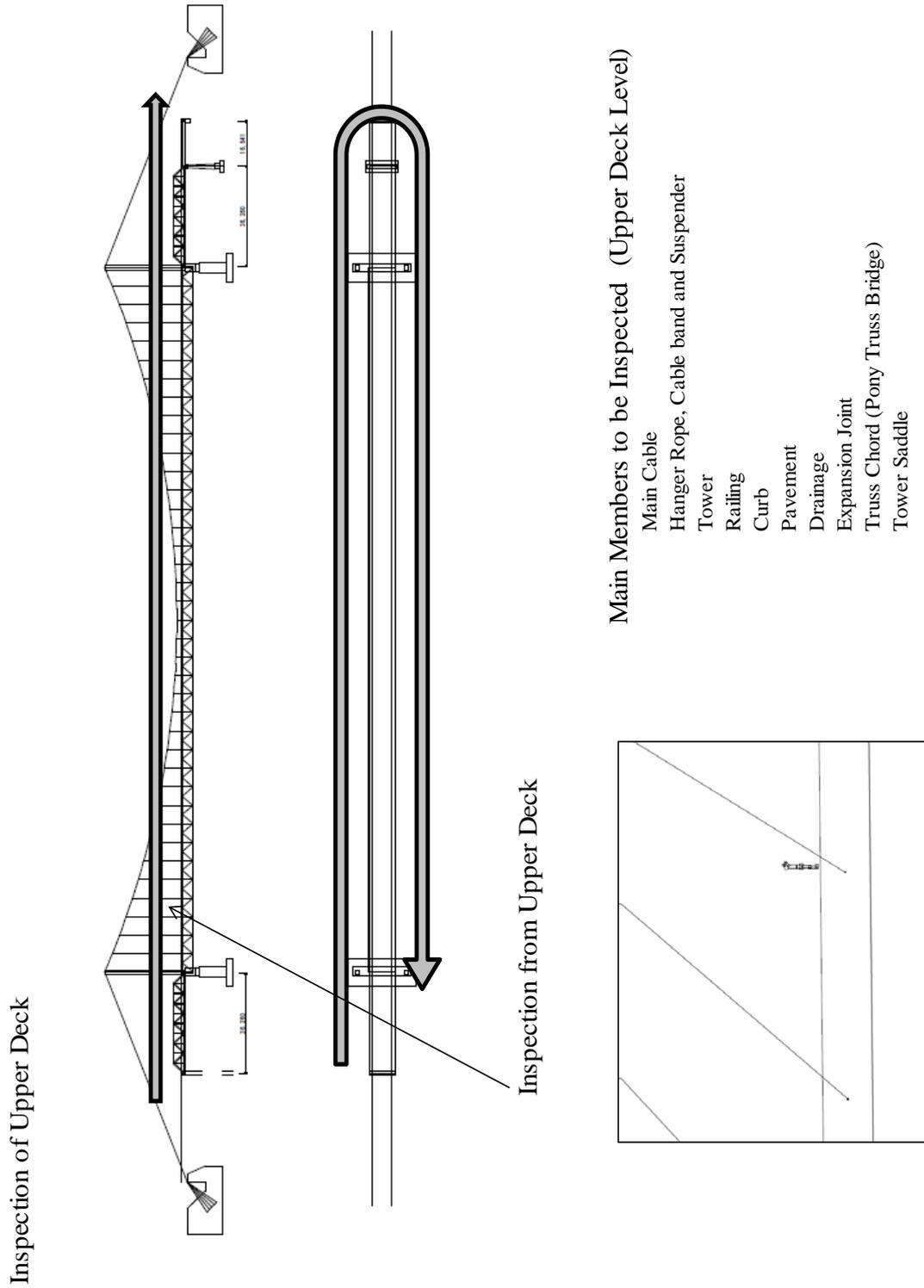
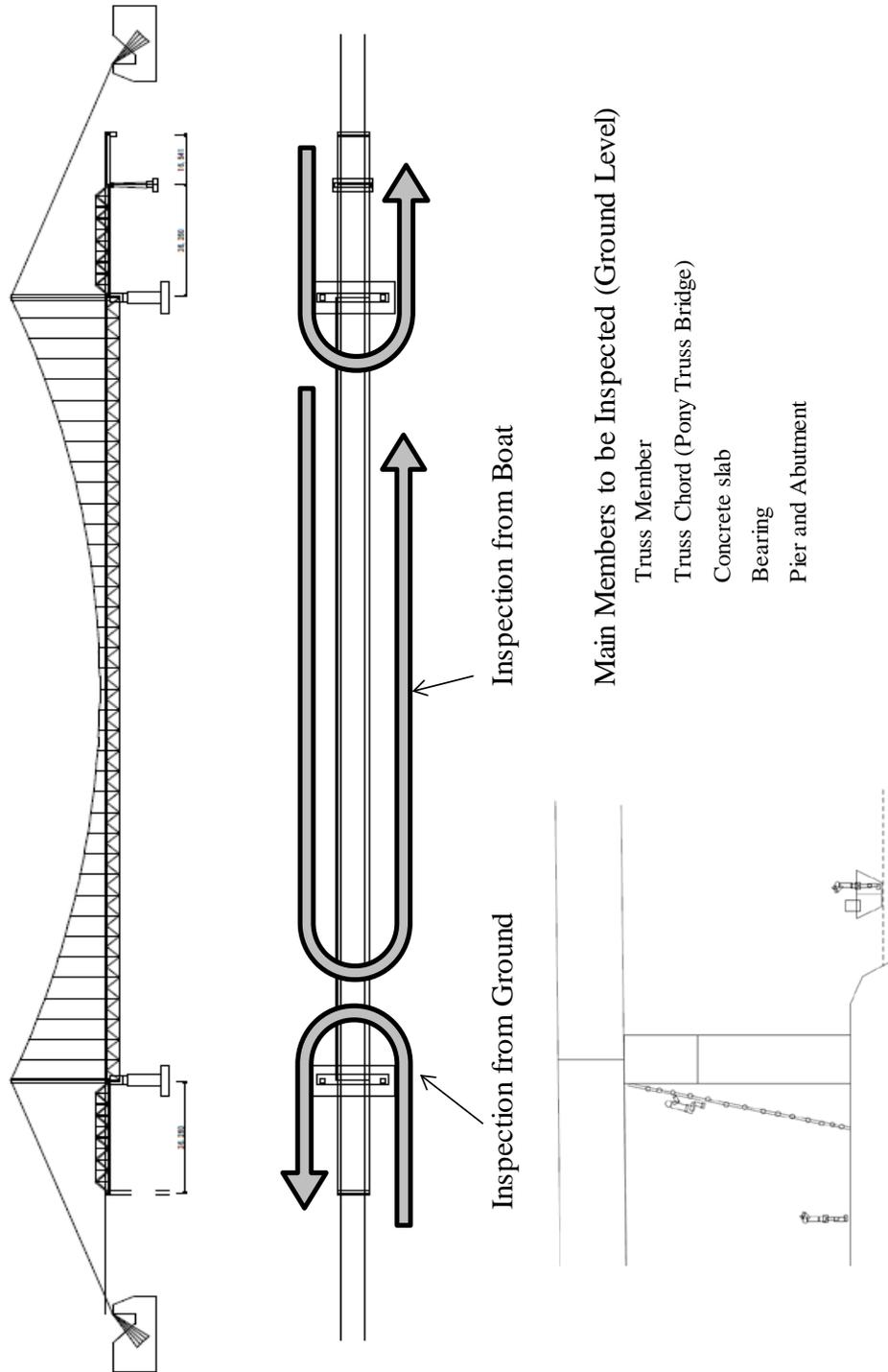




Figure 4-4 Condition Inspection Route (2 of 4)

Inspection of Underside





**Figure 4-5 Condition Inspection Route (3 of 4)**

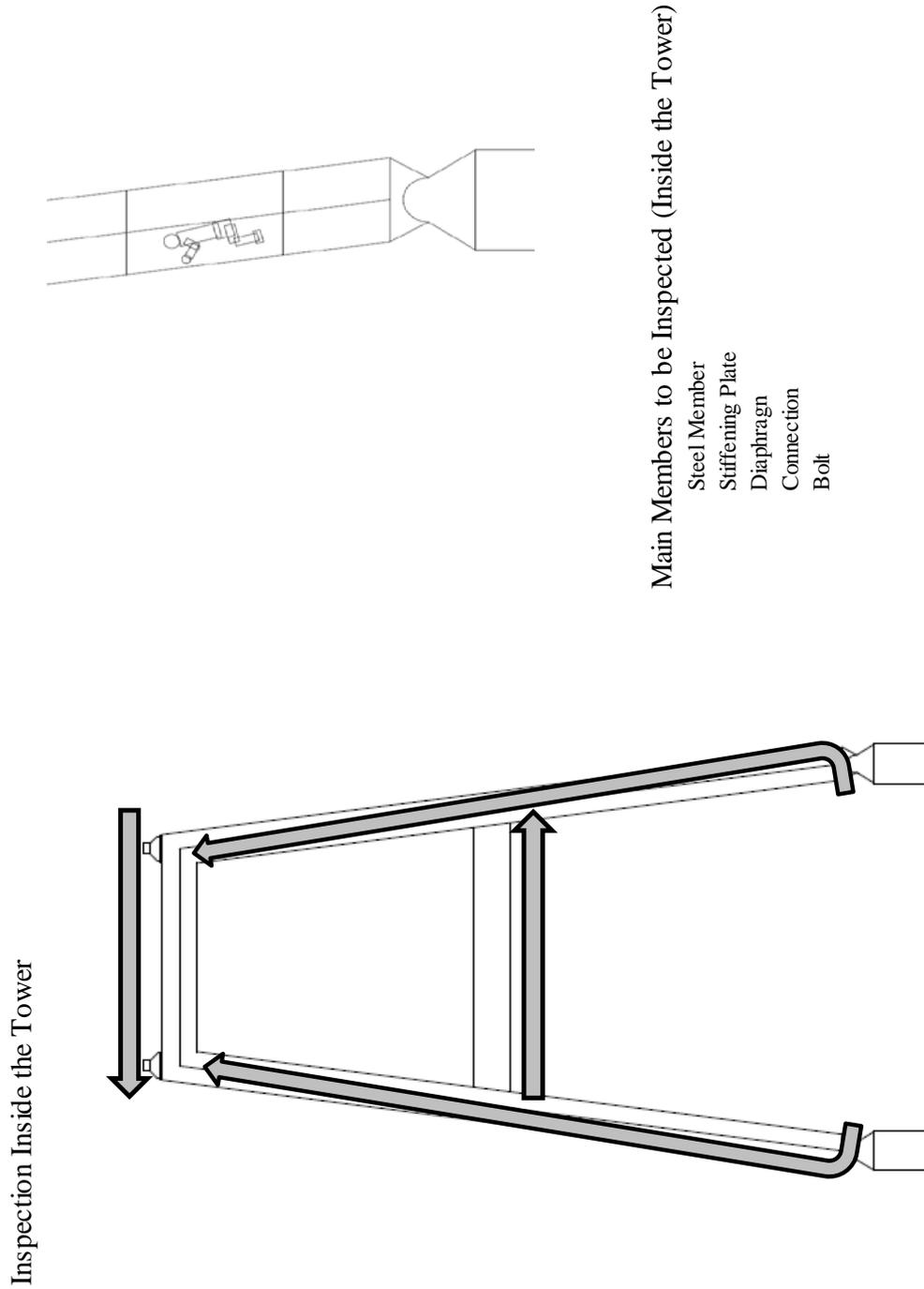




Figure 4-6 Condition Inspection Route (4 of 4)

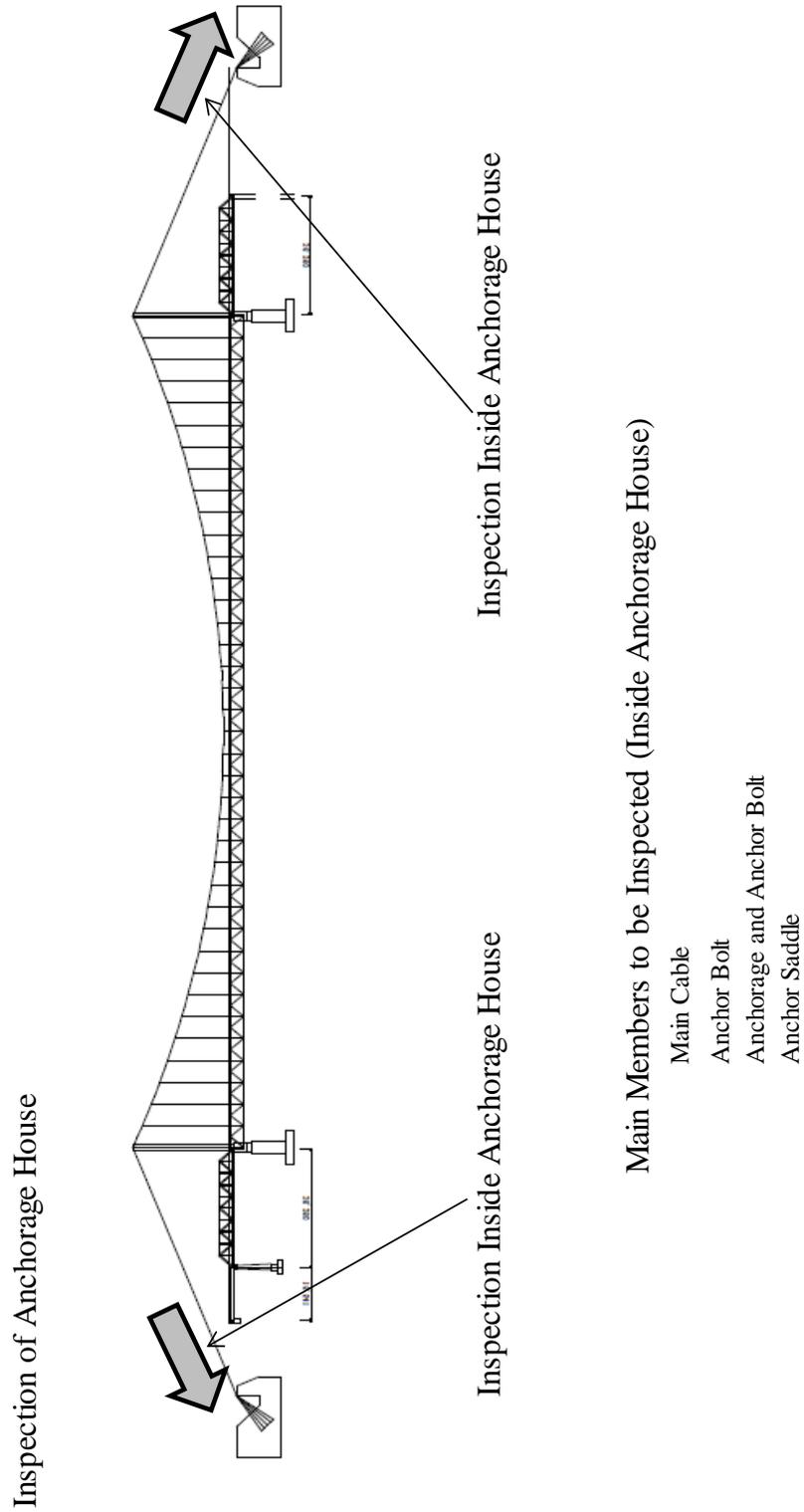




Figure 4-7 Check Points of Condition Inspection Route (1 of 4)

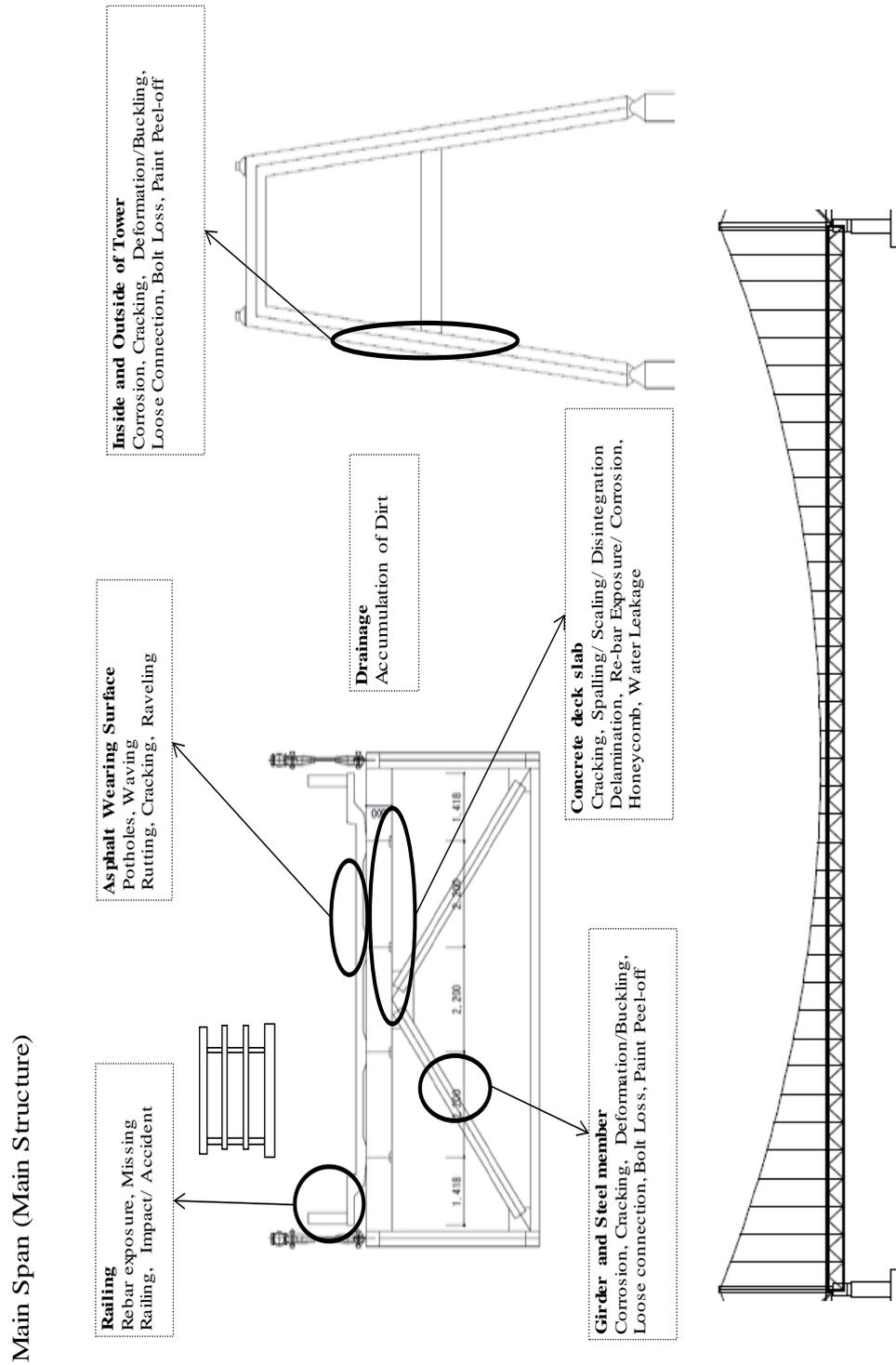




Figure 4-8 Check Points of Condition Inspection Route (2 of 4)

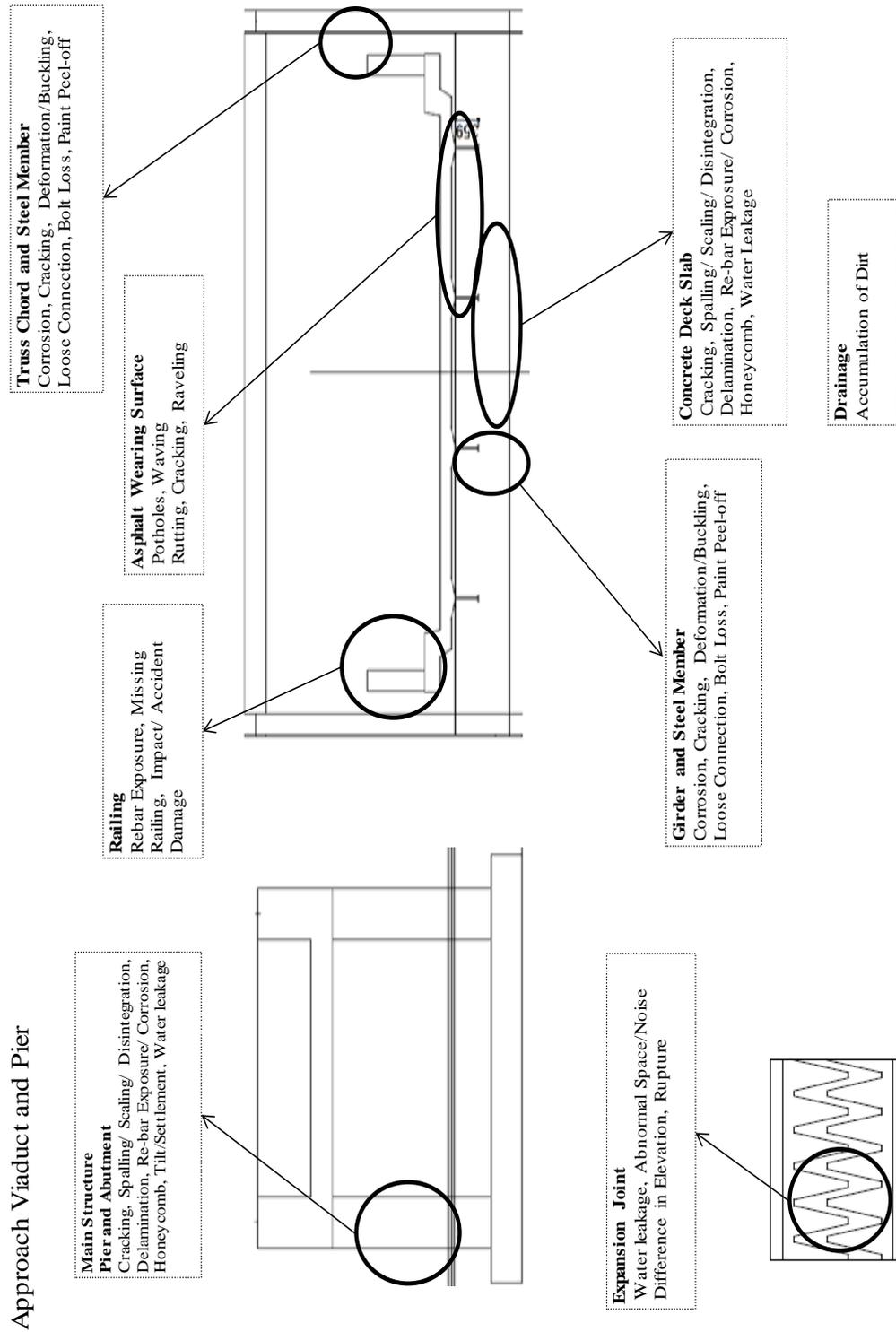




Figure 4-9 Check Points of Condition Inspection Route (3 of 4)

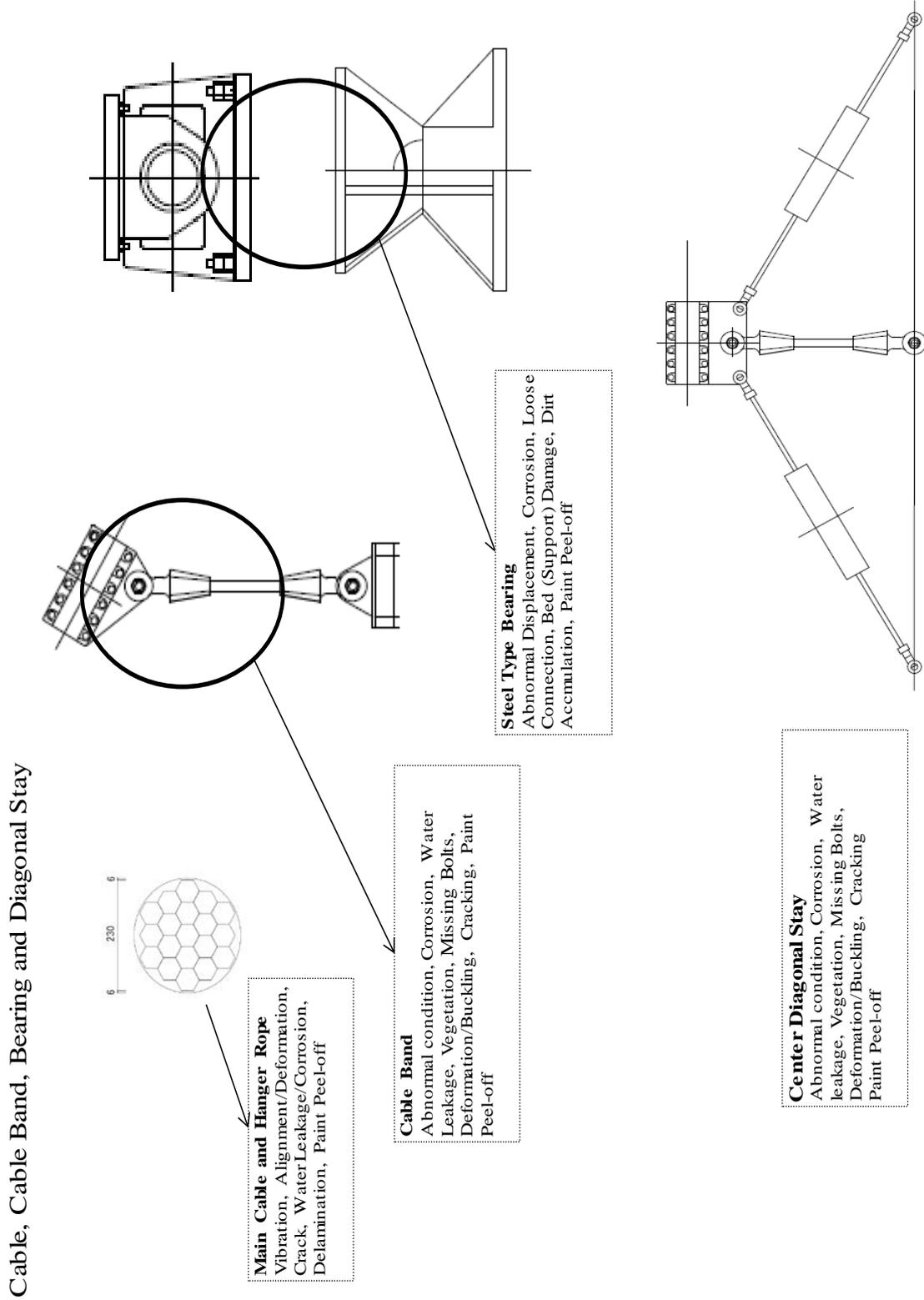
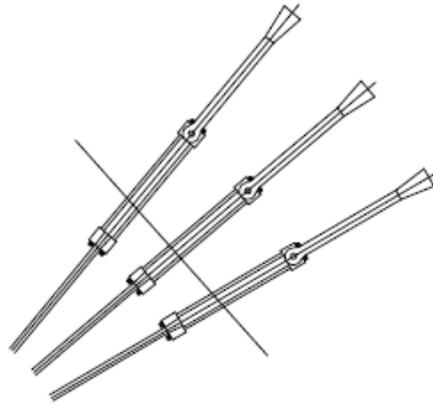




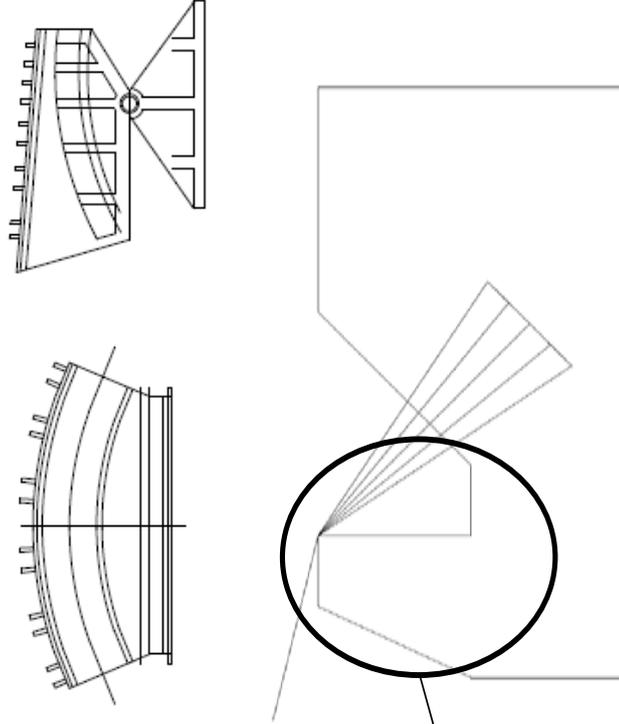
Figure 4-10 Check Points of Condition Inspection Route (4 of 4)

Anchorage, Anchor Bolt and Saddle

**Anchor Bolt**  
Abnormal condition, Corrosion, Missing Bolts,  
Deformation/Buckling, Cracking



**Tower and Splay Saddle**  
Abnormal Displacement, Corrosion, Loose  
Connection, Paint Deterioration, Bed  
(Support) Damage, Dirt Accumulation



**Anchorage**  
Water and Dirt Accumulation, Abnormal Condition,  
Water Leakage, Vegetation, Cracking,  
Spalling/Scaling/Disintegration Delamination, Re-bar  
Exposure/Corrosion, Honeycomb, Buckling, Cracking



**Figure 4-11 Numbering of Members (1 of 8)**

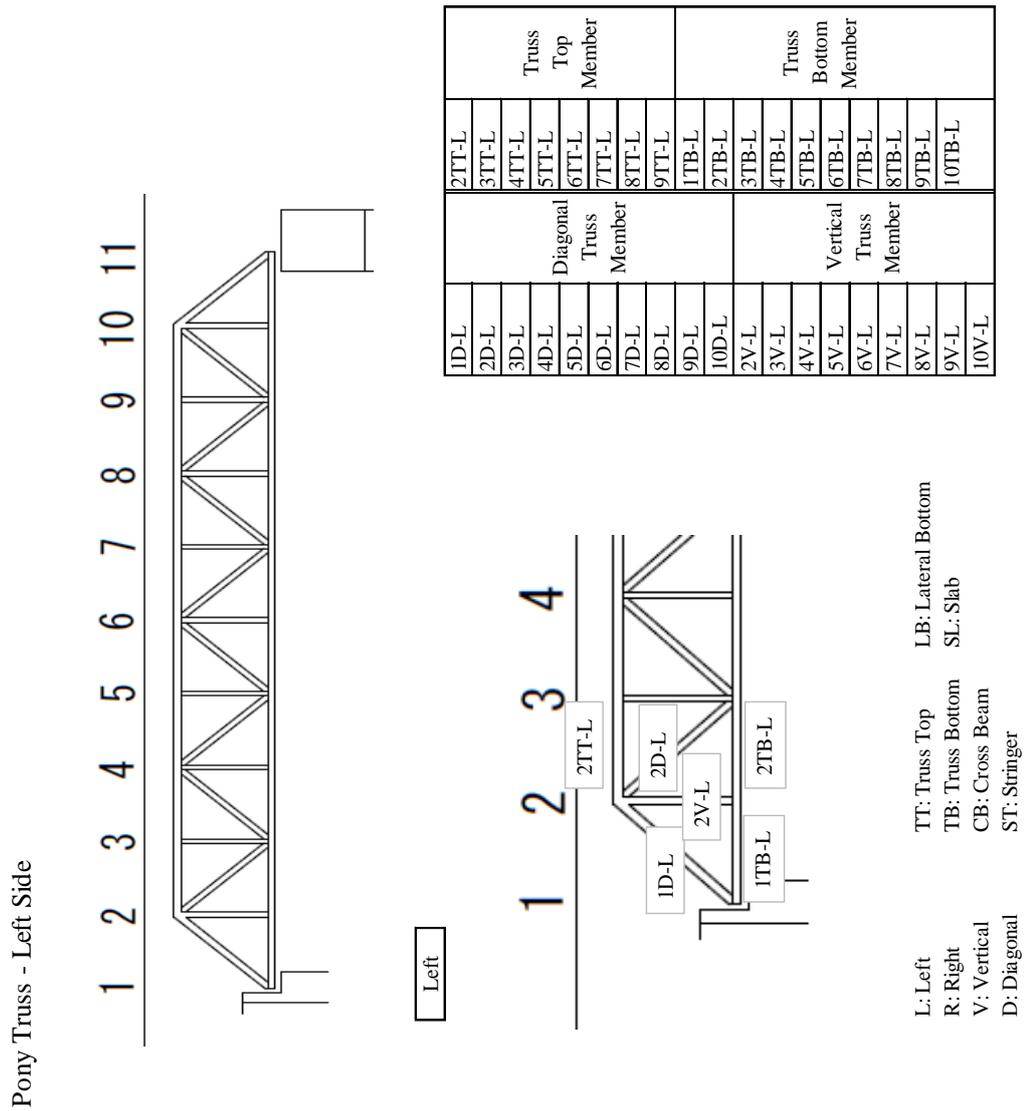
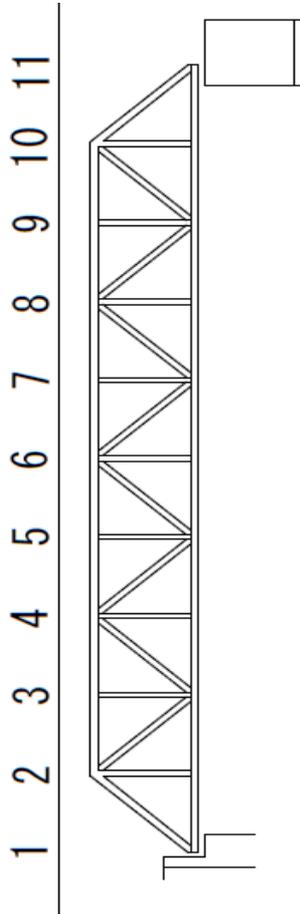


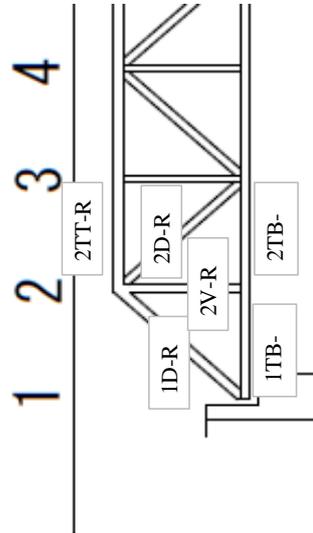


Figure 4-12 Numbering of Members (2 of 8)

Pony Truss - Right Side



Right



L: Left  
R: Right  
V: Vertical  
D: Diagonal  
TT: Truss Top  
TB: Truss Bottom  
CB: Cross Beam  
ST: Stringer  
LB: Lateral Bottom  
SL: Slab

| Diagonal Truss Member |       | Truss Top Member    |  |
|-----------------------|-------|---------------------|--|
| 1D-R                  | 2D-R  | 2TT-R               |  |
| 3D-R                  | 4D-R  | 3TT-R               |  |
| 5D-R                  | 6D-R  | 4TT-R               |  |
| 7D-R                  | 8D-R  | 5TT-R               |  |
| 9D-R                  | 10D-R | 6TT-R               |  |
| 2V-R                  | 3V-R  | 7TT-R               |  |
| 4V-R                  | 5V-R  | 8TT-R               |  |
| 6V-R                  | 7V-R  | 1TB-R               |  |
| 8V-R                  | 9V-R  | 2TB-R               |  |
| 10V-R                 |       | 3TB-R               |  |
|                       |       | 4TB-R               |  |
|                       |       | 5TB-R               |  |
|                       |       | 6TB-R               |  |
|                       |       | 7TB-R               |  |
|                       |       | 8TB-R               |  |
|                       |       | 9TB-R               |  |
|                       |       | 10TB-R              |  |
| Vertical Truss Member |       | Truss Bottom Member |  |



Figure 4-13 Numbering of Members (3 of 8)

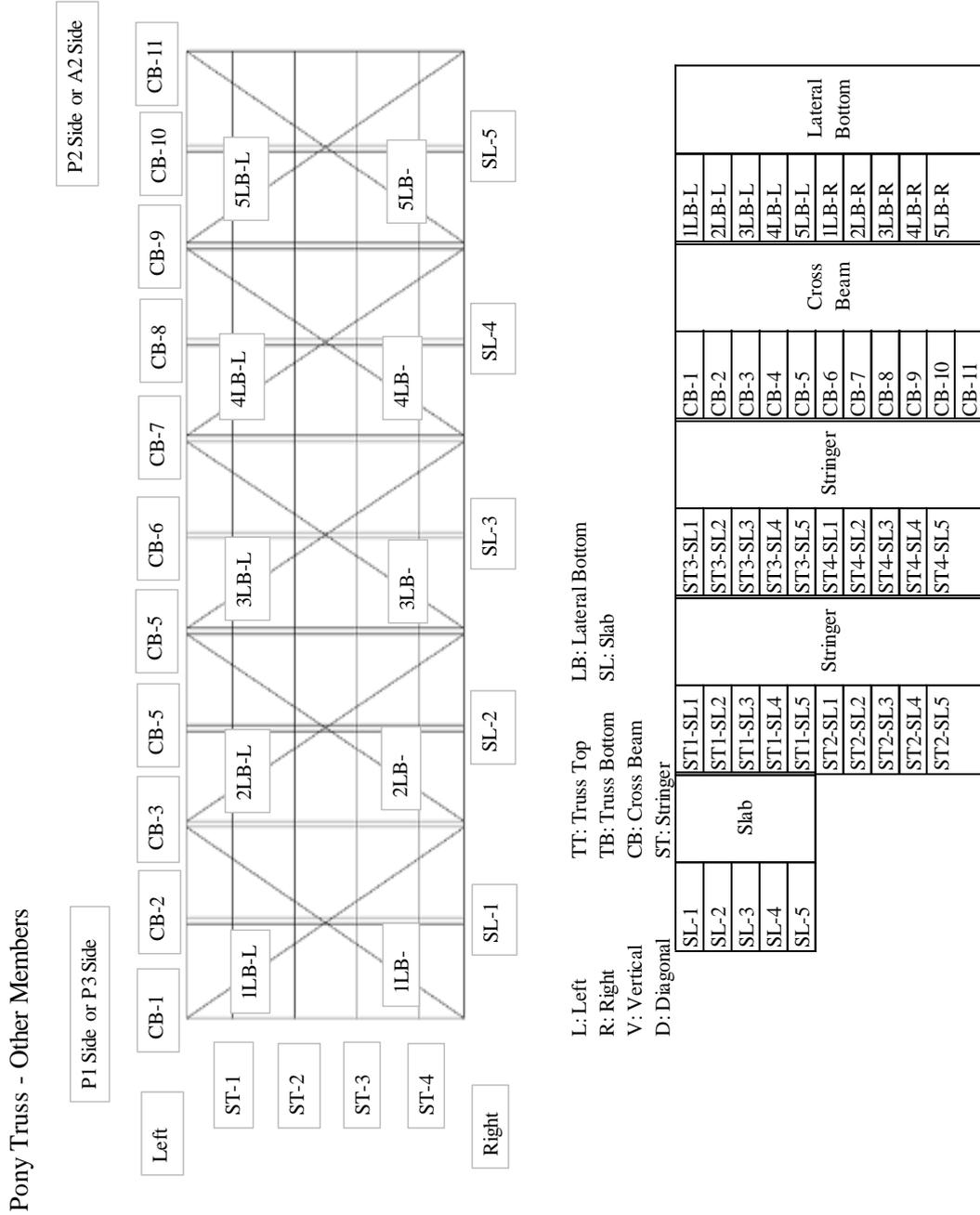
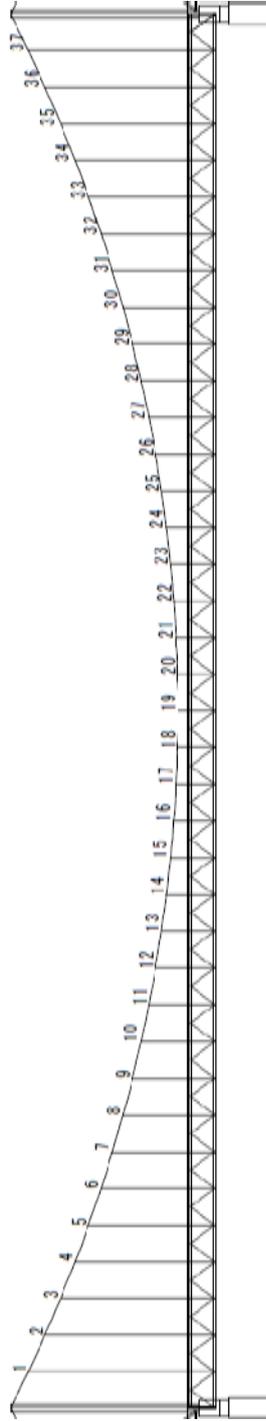




Figure 4-14 Numbering of Members (4 of 8)

Suspension Bridge - Hanger Ropes



|                                 |        |        |        |        |        |        |
|---------------------------------|--------|--------|--------|--------|--------|--------|
| Hanger<br>Rope<br>Left Side     | 1HR-L  | 14HR-L | 27HR-L | 1HR-R  | 14HR-R | 27HR-R |
|                                 | 2HR-L  | 15HR-L | 28HR-L | 2HR-R  | 15HR-R | 28HR-R |
|                                 | 3HR-L  | 16HR-L | 29HR-L | 3HR-R  | 16HR-R | 29HR-R |
|                                 | 4HR-L  | 17HR-L | 30HR-L | 4HR-R  | 17HR-R | 30HR-R |
|                                 | 5HR-L  | 18HR-L | 31HR-L | 5HR-R  | 18HR-R | 31HR-R |
|                                 | 6HR-L  | 19HR-L | 32HR-L | 6HR-R  | 19HR-R | 32HR-R |
|                                 | 7HR-L  | 20HR-L | 33HR-L | 7HR-R  | 20HR-R | 33HR-R |
|                                 | 8HR-L  | 21HR-L | 34HR-L | 8HR-R  | 21HR-R | 34HR-R |
|                                 | 9HR-L  | 22HR-L | 35HR-L | 9HR-R  | 22HR-R | 35HR-R |
|                                 | 10HR-L | 23HR-L | 36HR-L | 10HR-R | 23HR-R | 36HR-R |
|                                 | 11HR-L | 24HR-L | 37HR-L | 11HR-R | 24HR-R | 37HR-R |
|                                 | 12HR-L | 25HR-L |        | 12HR-R | 25HR-R |        |
|                                 | 13HR-L | 26HR-L |        | 13HR-R | 26HR-R |        |
| Hanger<br>Rope<br>Right<br>Side |        |        |        |        |        |        |

L: Left  
R: Right  
V: Vertical  
D: Diagonal  
SL: Slab

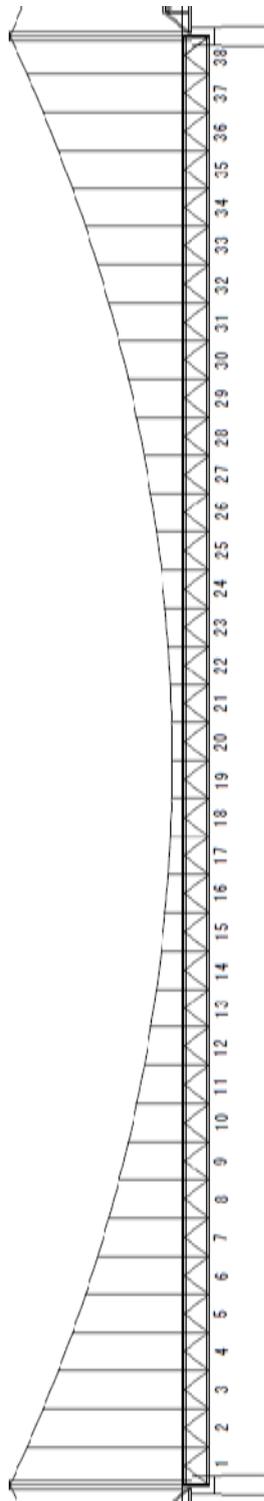
TT: Truss Top  
TB: Truss Bottom  
CBT: Cross Beam Top  
CBB: Cross Beam Bottom  
FT: Floor Truss

LB: Lateral Bottom  
LT: Lateral Top  
ST: Stringer  
HR: Hanger Rope

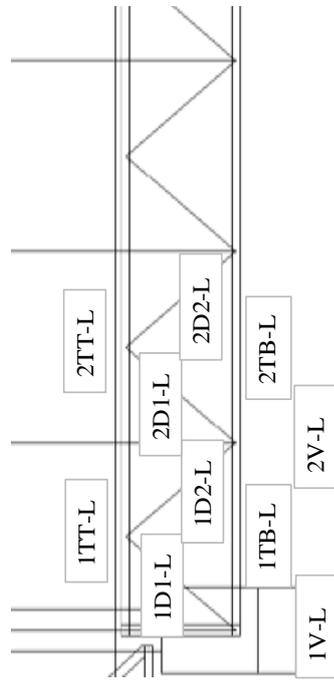


Figure 4-15 Numbering of Members (5 of 8)

Suspension Bridge - Truss at Left Side



Left



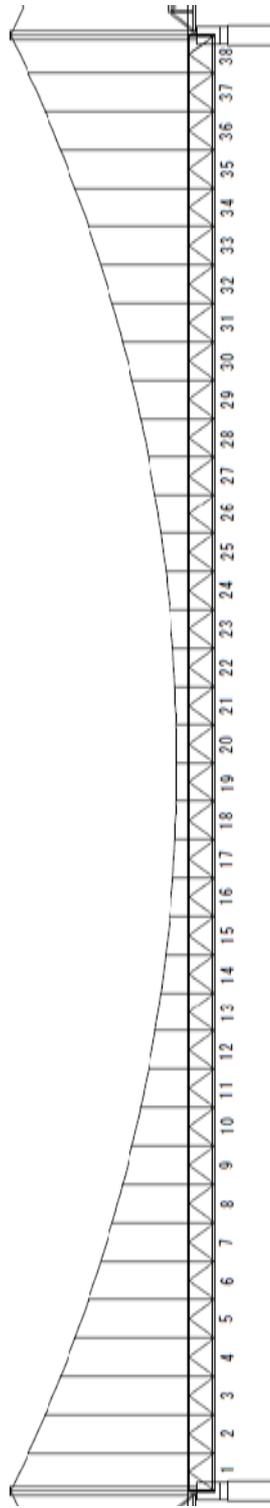
|        |          |        |          |
|--------|----------|--------|----------|
| 1V-L   | Vertical | 1D1-L  | Diagonal |
| 2V-L   | Truss    | 1D2-L  | Truss    |
| 3V-L   | Member   | 2D1-L  | Member   |
| ...    |          | 2D2-L  |          |
| 39V-L  |          | 3D1-L  |          |
| 1TT-L  | Truss    | 3D2-L  |          |
| 2TT-L  | Top      | ...    |          |
| 3TT-L  | Member   | 38D1-L |          |
| ...    |          | 38D2-L |          |
| 38TT-L |          |        |          |
| 1TB-L  | Truss    |        |          |
| 2TB-L  | Bottom   |        |          |
| 3TB-L  | Member   |        |          |
| ...    |          |        |          |
| 38TB-L |          |        |          |

- L: Left
- R: Right
- V: Vertical
- D: Diagonal
- TT: Truss Top
- TB: Truss Bottom
- CBT: Cross Beam Top
- CBB: Cross Beam Bottom
- LB: Lateral Bottom
- LT: Lateral Top
- ST: Stringer
- HR: Hanger Rope

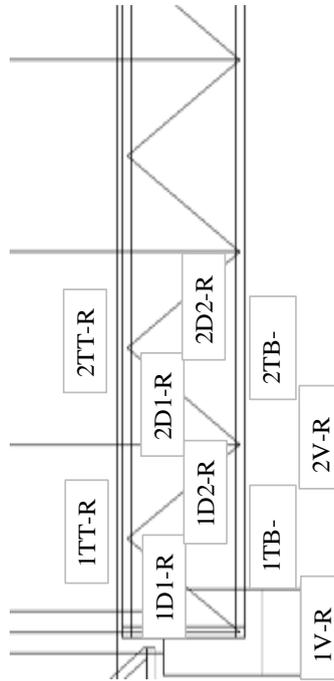


Figure 4-16 Numbering of Members (6 of 8)

Suspension Bridge - Truss at Right Side



Right



|        |                             |        |                             |
|--------|-----------------------------|--------|-----------------------------|
| IV-R   | Vertical<br>Truss<br>Member | ID1-R  | Diagonal<br>Truss<br>Member |
| 2V-R   |                             | ID2-R  |                             |
| 3V-R   |                             | 2D1-R  |                             |
| ...    |                             | 2D2-R  |                             |
| 39V-R  | Truss<br>Top<br>Member      | 3D1-R  |                             |
| 1TT-R  |                             | 3D2-R  |                             |
| 2TT-R  |                             | ...    |                             |
| 3TT-R  |                             | 38D1-R |                             |
| ...    | Truss<br>Bottom<br>Member   | 38D2-R |                             |
| 38TT-R |                             |        |                             |
| 1TB-R  |                             |        |                             |
| 2TB-R  |                             |        |                             |
| 3TB-R  |                             |        |                             |
| ...    |                             |        |                             |
| 38TB-R |                             |        |                             |

- L: Left
- R: Right
- V: Vertical
- D: Diagonal
- SL: Slab
- TT: Truss top
- TB: Truss bottom
- CBT: Cross beam top
- CBB: Cross beam bottom
- FT: Floor truss
- LB: Lateral bottom
- LT: Lateral top
- ST: Stringer
- HR: Hanger rope



**Figure 4-17 Numbering of Members (7 of 8)**

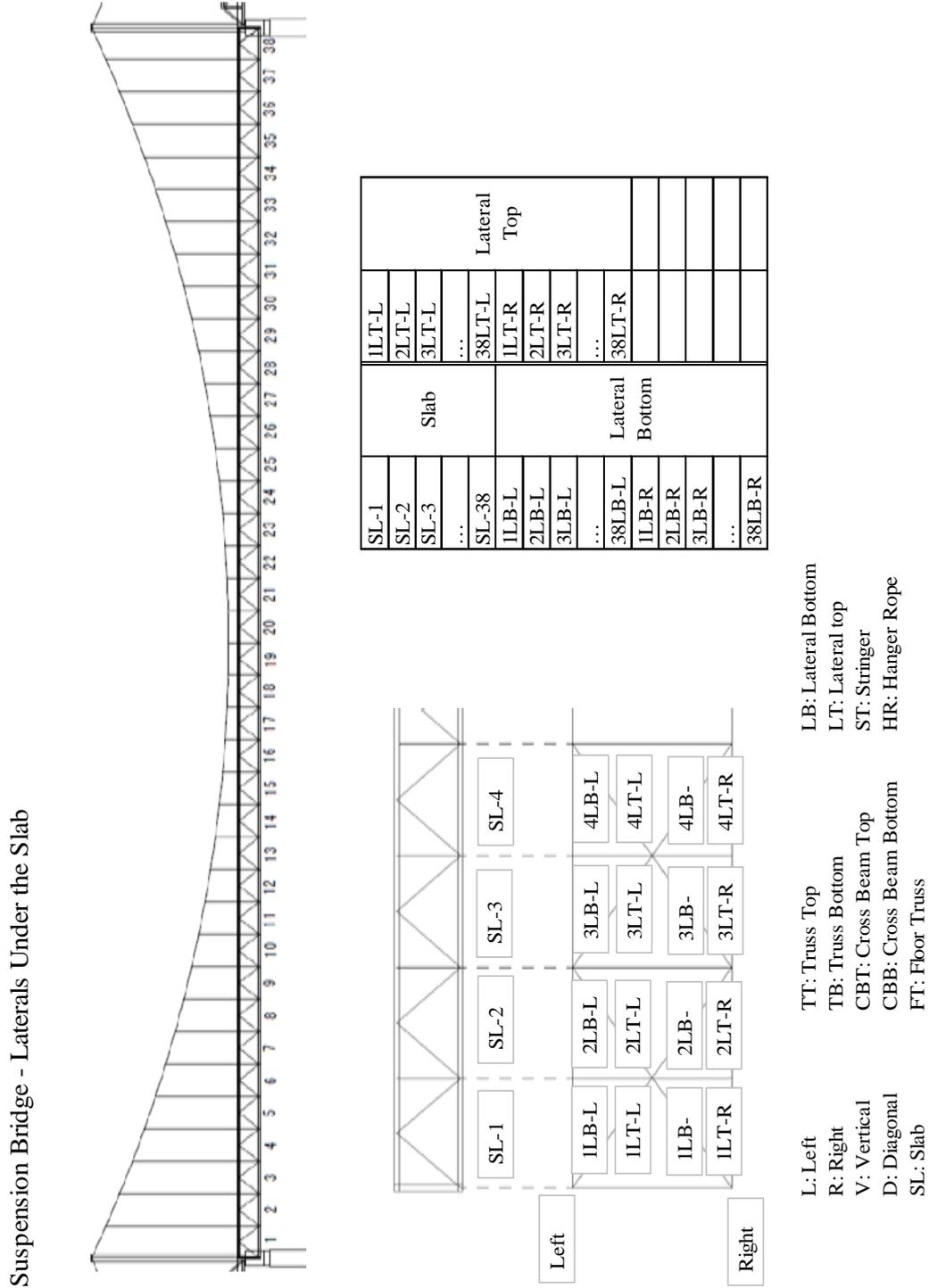
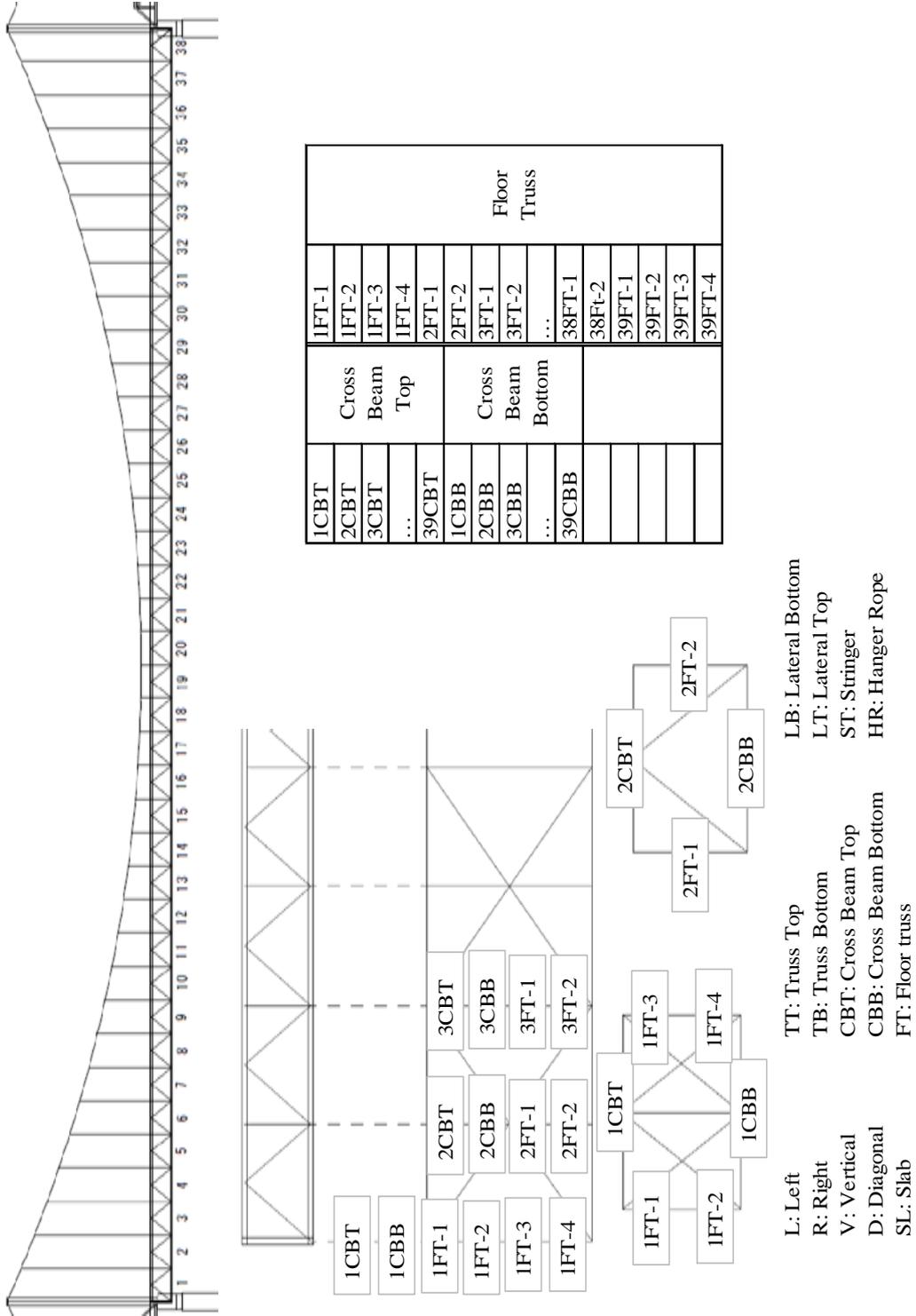




Figure 4-18 Numbering of Members (8 of 8)

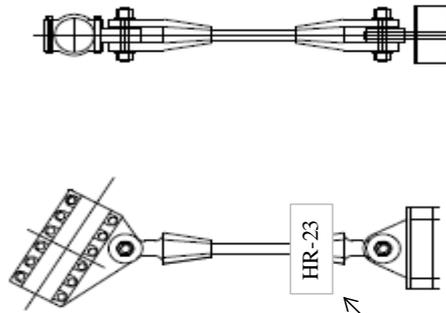
Suspension Bridge - Cross Beams and Floor Truss



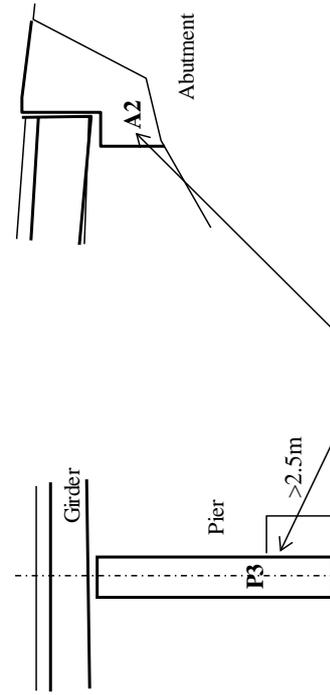


**Figure 4-19 Marking of the Number of Members**

Marking of the Number of Member



Numbering of Hanger rope is marked on the Hanger Rope



Numbering of pier and abutment are marked on the side of the substructures under the bridge.



**Table 4-1**  
**Composition of Condition Inspection Forms for Magapit Bridge**

| Title of Form  | Number of Form |
|--|----------------|
| (1) Cover  | 1              |
| (2) Bridge Location and General Description with Signature | 1              |
| (3) Repair Records   | 1              |
| (4) Summary of Findings/Recommendation                     | 1              |
| (4) Estimated cost of Major Maintenance                    | 1              |
| (5) Span Element - Condition                               | 4              |
| (6) Cable and Rope Element - Condition                     | 4              |
| (7) Pier Element - Condition                               | 2              |
| (8) Abutment Element - Condition                           | 4              |
| (9) Anchorage Element - Condition                          | 2              |
| (10) Span Element - Damage Rating                          | 2              |
| (11) Cable and Rope Element – Damage Rating                | 2              |
| (12) Pier Element - Damage Rating                          | 2              |
| (13) Abutment Element - Damage Rating                      | 2              |
| (14) Anchorage Element - Damage Rating                     | 2              |
| Total  | 31             |

#### 4.4.2. Level of Inspection

The bridge inspector shall indicate the level of inspection undertaken as shown in Table 4-2.

**Table 4-2**  
**Level of Inspection**

|  |                          |
|--|--------------------------|
| Full complete inspection   | <input type="checkbox"/> |
| Partial inspection only as bridge inspection vehicle not available | <input type="checkbox"/> |
| Partial inspection for other reason                                | <input type="checkbox"/> |

It is practical to use Bridge Inspection Vehicle at least once in every three years, due to the limited number of such vehicle in DPWH. Bridge Inspector should consider the arrangement of BIV when they make a maintenance plan for special bridges. If a complete inspection is not undertaken, then revisit the bridge and inspect with a Bridge Inspection Vehicle or other required equipment. A countrywide program for the use of the available Bridge Inspection Vehicles should be utilized to ensure optimum result of the inspection.

#### 4.4.2.1 Bridge Inspection Vehicle

Bridge Inspection Vehicle (BIV) is one of the most important inspection tool used to provide temporary access for inspectors to approach inaccessible area for close inspection, such as high tower, chord, cable and under bridge.



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Generally, two types of BIV are used in the inspection of bridges. One type is Bucket Type BIV which is also called Aerial Work Platform. This type of BIV is widely used for maintenance and construction of bridge and also for power and telecommunications industries. They can lift inspectors up to high level to inspect tower, cable band chord and etc. Figure 4-20 shows the picture of the Bucket Type BIV.

**Figure 4-20**  
**Photos of Bucket Type BIV**



Another type of BIV is Telescoping Articulated Platform. This type can carry the inspector underneath the bridge to check girders, bottom of slab and etc. Figure 4-21 shows the picture of Telescoping Articulated Platform Type BIV.

**Figure 4-21**  
**Photos of Telescoping Articulated Platform Type BIV**



When BIV is used, a designated vehicle operator should accompany the inspection and operate the vehicle. Inspectors should be tied to the rigid frame by safety belt during lifting.



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#### 4.4.3. Location and Inventory Data

The bridge inspector shall inspect the bridge and review the location data included in the CIF. Data required are described in Table 4-3.

**Table 4-3**  
**Bridge Location Data**

| <b>Data Description</b>                                     | <b>Comment</b>   |
|---|--|
| Bridge ID   | Unique identification number assigned by the RBIA for each bridge  |
| Bridge Name   | The name given to the bridge   |
| Road Name   | The name of the road on which the bridge is located.   |
| Road ID   | Unique identification number assigned by the RBIA for the road on which the bridge is located            |
| Section ID  | The unique identification number assigned by the RBIA to the specific road section containing the bridge |
| Location  | The location (chainage) of the bridge within the road section based on the LRS                           |
| Region  | Region in which the bridge is located  |
| Engineering District  | Engineering District which is responsible for the management and maintenance of the bridge               |
| Province, Congressional District, Municipality and Barangay | The administrative area in which the bridge (i.e. the first abutment) is located.                        |
| River Name  | The name of the stream crossed by the bridge (where appropriate)   |

#### 4.4.4. Estimation of Routine Maintenance Costs

The bridge inspector is required to prepare the estimated costs of routine maintenance for the next fiscal year.

The estimated costs of routine maintenance to a bridge shall be based on a review of the actual routine maintenance costs to the bridge in the previous year adjusted based on the inspection of the bridge. The historical costs will be compiled and supplied by the District Engineering Office in which the bridge is located on request. The inspection will be used to determine if the same or different routine maintenance will be required in the next budget year.

The estimated costs for routine maintenance will be used in the planning of the Annual Infrastructure Program for the coming fiscal year.

The definition for routine maintenance is presented in Table 4-4.



**Table 4-4**  
**Definition of Routine Maintenance**

| <b>Definition</b>  | <b>Routine Maintenance Activities</b>  |
|--|--|
| All routine and periodic maintenance of bridges undertaken using DPWH routine maintenance funds as defined by RMMS | Works that are urgent to safeguard the bridge and the public;<br>Works not requiring formal design and documentation; and<br>Works that can be undertaken with a maximum MBA allocation of 10 crew days per bridge per year. |

Routine Maintenance covers minor works to the entire bridge, and includes cleaning, painting, minor repairs and etc. The standard Routine Maintenance Activities are listed in Table 4-5.

**Table 4-5**  
**Routine Maintenance Activities**

| <b>Act. No.</b> | <b>Description</b>                   | <b>Unit</b> | <b>Method</b> |
|-----------------|--------------------------------------|-------------|---------------|
| 60.01           | Sweeping and cleaning of bridge deck | sq. m       | MBA/MBC       |
| 60.02           | Patching concrete deck               | sq. m       | MBA/MBC       |
| 60.03           | Repairs to concrete bridge elements  | crew days   | MBA           |
| 60.04           | Repairs to steel bridge elements     | crew days   | MBA           |
| 60.05           | Repairs to Bailey bridge             | crew days   | MBA           |
| 60.06           | Repairs to timber bridge             | crew days   | MBA           |
| 60.07           | Clearing of bridge waterway          | crew days   | MBA           |

#### **4.4.5. Repair Record**

The Bridge Inspector is required to report the routine and major maintenance activities undertaken to a bridge after the conduct of the last condition inspection that will include the type, scope and status of maintenance activities. The bridge inspector shall also record observations whether the works undertaken are effective and sufficient.

#### **4.4.6. Condition Data Collection**

Special bridges like Suspension Bridge have unique attributes and materials which are not defined in the BMS Manual for standard bridges. Bridge Inspectors/Engineers should understand the characteristic and function beforehand by reviewing the As Built Drawings and other related documents.

As a reference, some special attributes of Magapit Bridge (Pilot Bridge) are listed in Table 4-6. All other applicable descriptions in the BMS Manual for standard bridge are adopted in this Manual. General pattern of defects in bridges are shown in Figures 4-22, 4-23 and 4-24.



Figure 4-22 General Patterns of Defects (1 of 3)

General Patterns of Crack Defects on Abutment and Pier

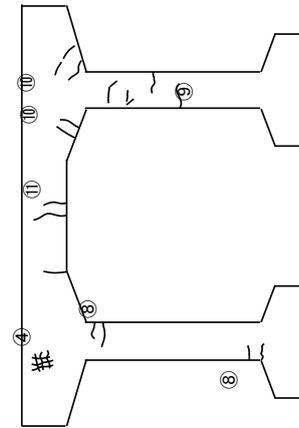
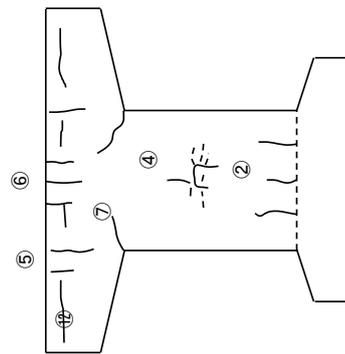
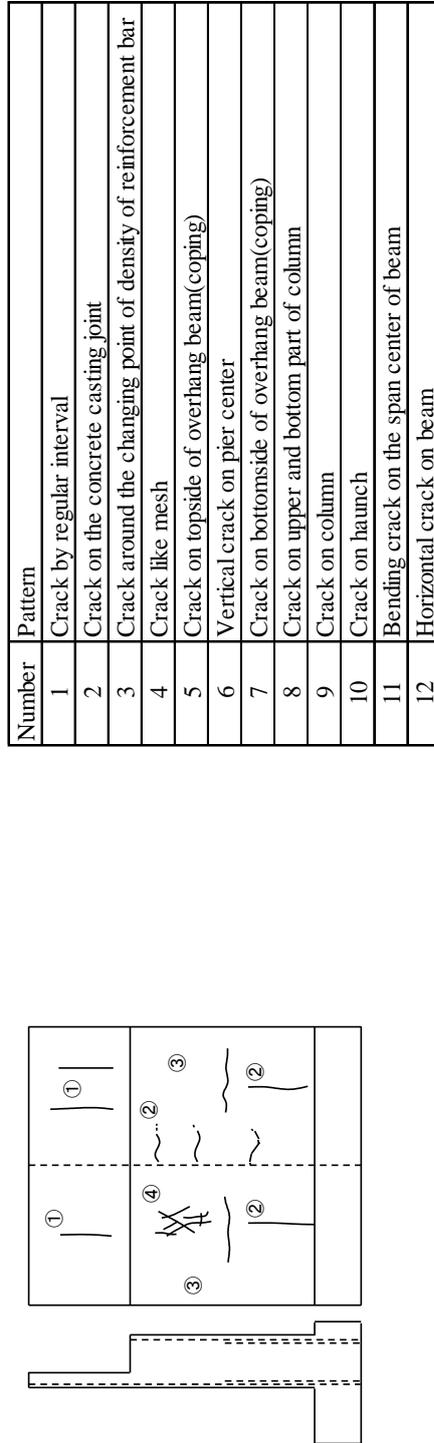
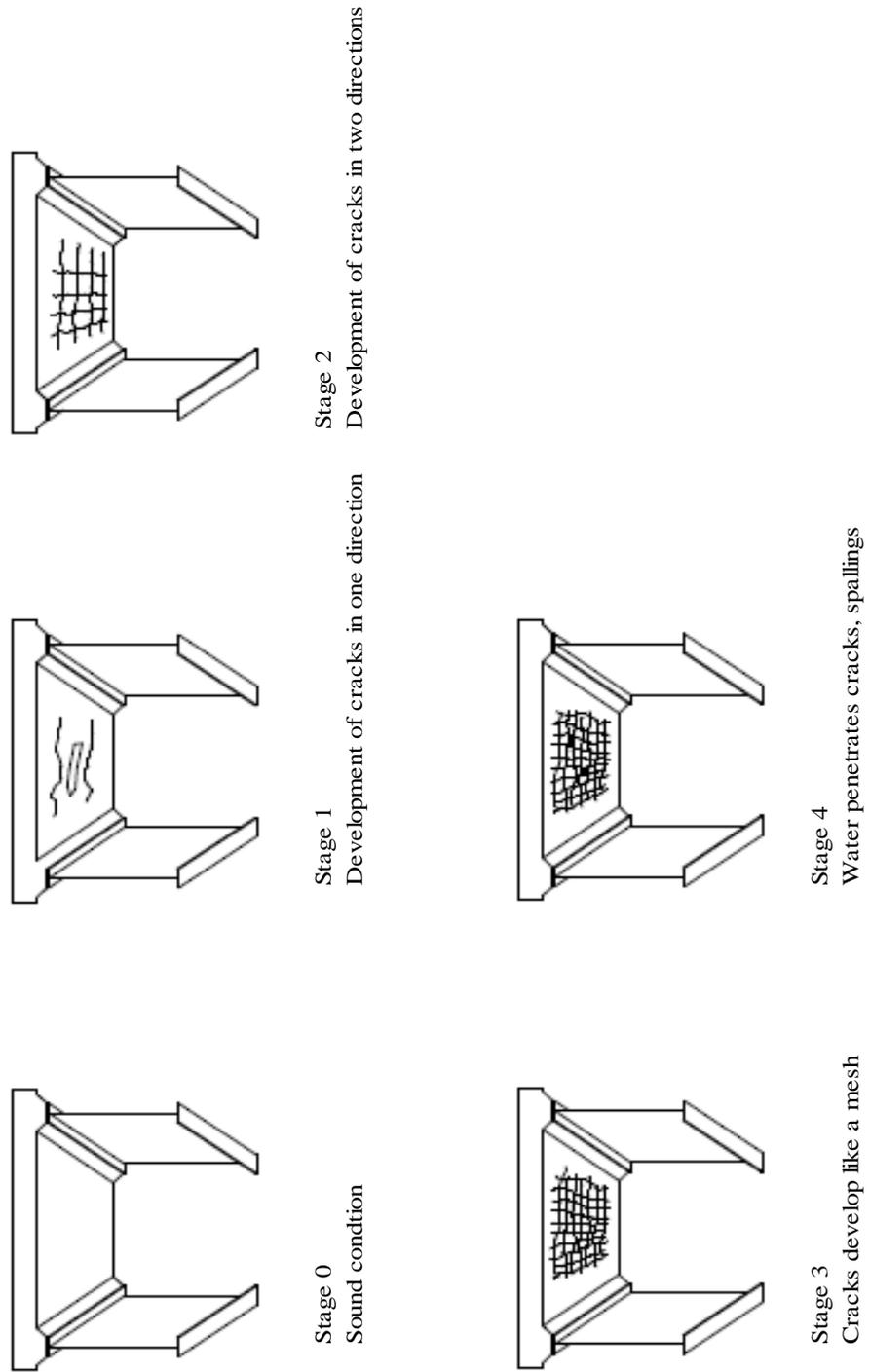






Figure 4-24 General Patterns of Defects (3 of 3)

General Patterns of Crack Defects on Concrete Deck





**Table 4-6**  
**Special Attributes of Magapit Bridge**

| Element | Attribute               | Description  |
|---------|-------------------------|--|
| Span    | Asphalt Wearing Surface | The asphalt wearing surface is the surface on which vehicle traffic and pedestrian travels. Magapit bridge adopts 40 mm thickness Dense Graded Bituminous Concrete Asphalt on the top layer. Asphalt wearing surface plays an important role to protect the deck slab.   |
|         | Water proofing layer    | Water proofing is quite important to protect deck slab from deterioration by water penetration. Water easily penetrates asphalt wearing surface and reach deck slab. Concrete weak vibration by live load under wet condition. Water proofing should be installed on the deck slab before casting asphalt layer.   |
| Cable   | Anchorage               | Anchorage is located at each end of bridge to anchor main cable into anchor block to hold tension stress. Anchorage structure includes foundation , anchor block, cable anchor frame and protective house. The connection area of strand in anchorage is weak against corrosion. Corrosion and damage of Anchorage is contributory to bridge collapse.   |
|         | Hanger Rope             | Hanger rope is the most important attribute for Suspension Bridge. They connect main cable to suspend girders. Hanger ropes in Magapit use Independent Wire Strand Core System. They are painted for protection from water penetration to avoid corrosion. Corrosion and damage of rope is contributory to bridge collapse   |
|         | Main Cable              | Main cable is the most important attribute for Suspension Bridge. Main Cables are suspended between towers and have paralleled hanger ropes to support the stiffening girders. Main cables must be connected with anchor blocks at each end of the bridge to hold tension stress. Corrosion and damage of cable is contributory to bridge collapse. Main cable in Magapit Bridge use parallel wire strand system (19-PWS-91). Zinc Plating Wires are protected by wrapping wire and paint from water penetration to avoid corrosion. |
|         | Cable and Stay band     | Hanger ropes are fixed to main cable with cable bands. Stay cables fixed the main suspension cables to restrict longitudinal displacement of the girder due to wind, earthquake and temperature change.  |
|         | Saddle                  | Tower Saddle is located on the top of tower to support the main cables and transfers tension from main cable to tower as vertical load. Splay saddle at anchorage bent main cable toward anchor block.   |

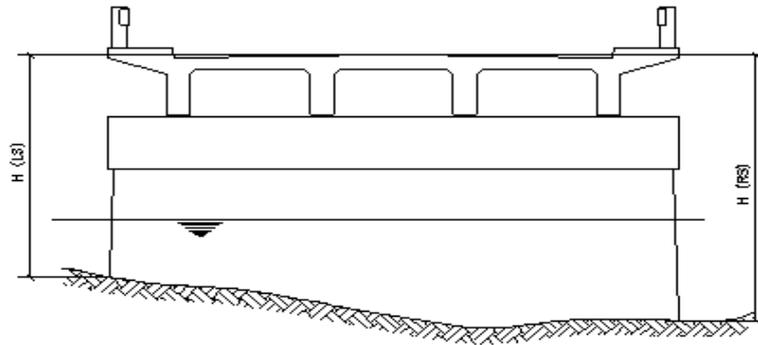
#### 4.4.7. Pier and Abutment Scour Check

Scour checks are made at the piers and abutments in each annual condition survey. These record the level of the ground surface at the piers and abutments. This data will be available to monitor changes in surface levels under bridges over a longer period and therefore will indicate whether erosion or accretion is taking place.



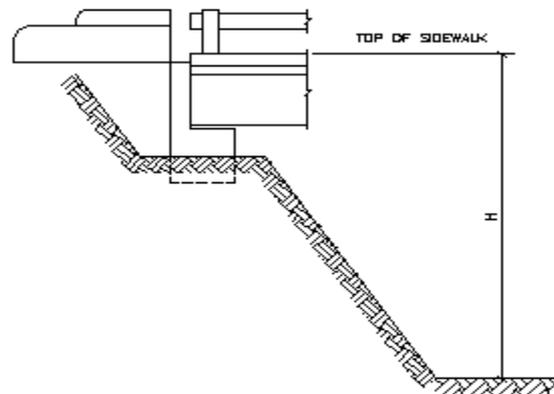
The scour check at a pier is undertaken as shown in Figure 4-25. The Bridge Inspector is required to measure the height from the top of the concrete deck or parapet to the ground or stream bed level on each side of the bridge on the centerline of each pier.

**Figure 4-25**  
**Measurement of Pier Scour Check**



The scour check at an abutment is undertaken as shown in Figure 4-26. The Bridge Inspector is required to measure the height from the top of the concrete deck or parapet to the ground or streambed level on each side of the bridge to the natural surface immediately adjacent to the abutment.

**Figure 4-26**  
**Measurement of Abutment Scour Check**



#### 4.4.8. Condition Rating of Bridge Attributes

The material defect descriptions and the condition rating criteria in BMS will be utilized by the Bridge Inspectors (BI) to assess the defects identified in bridge elements. On the other hand, the Condition Inspection for cable, and asphalt wearing surface will be undertaken using this Manual.



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The condition rating of the bridge attributes will be conducted following the BMS Manual. Additional material defects are specifically described in Appendix G while the corresponding condition rating criteria concerning the same is included in Appendix H.

- Asphalt Wearing Surface
- Cable Element

The affected area, length or number will be roughly estimated and using the Condition Rating Card, the attribute damage rating can be obtained. The condition state of the attribute is the worst damage rating. The descriptions cannot possibly cover every situation, and the BIs must rely on their engineering knowledge and judgment to evaluate which condition should apply to the bridge elements inspected.

The BIs shall also compare the defects observed in the attribute with the previous sketch drawings and photograph records to check the progress.

The condition states have been developed to describe the following conditions listed in Table 4-7.

For each defined attribute in the bridge, the Condition Inspection Forms includes a separate section covering that attribute and which is to be completed by the BI. Each section shall be completed to include:

- The condition state of the attribute (see Table 4-7)
- The type of repair required for each attribute
- The estimated cost to undertake the required repair (major maintenance)

All repairs to attributes are classified as major maintenance.

The standard descriptions of major maintenance that may be undertaken for each attribute are:

- Repair damage
- Protective measures
- Strengthen
- Replace
- Other

Only one type of maintenance can be listed for each attribute. When two (2) or more types of maintenance are required to an attribute, all work shall be listed under the type of maintenance with the highest estimated cost.

The BI shall describe in detail the recommended repair works each identified defect in any attribute, providing sketch drawings if necessary.



**Table 4-7**  
**Bridge Attribute Condition States**

| <b>Condition State</b> | <b>Description</b>  | <b>Action</b>                                |
|------------------------|---|--|
| 0                      | Attribute is in good condition with little or no deterioration  | Keep inspection                              |
| 1                      | Attribute shows deterioration of a minor nature to the primary supporting material and is showing first signs of being affected   | Keep monitoring                              |
| 2                      | Attribute shows advancing deterioration and loss of protection to the supporting material, minor loss of section  | Major maintenance is required within 2 years |
| 3                      | Attribute shows advanced deterioration, loss of effective section to the primary supporting material, and is acting differently to design or is showing signs of overstress | Immediate major maintenance is required      |

The condition state of each bridge attribute will be used by the BMS to calculate the overall need of the bridge for intervention.

#### **4.4.9. Not Applicable Attributes**

There are many instances when the Condition Inspection Forms (CIF) is not completely filled out by the bridge inspector due to uncertainties in identifying or locating some attributes of the special bridge.

The Bridge Inspector may feel that an attribute cannot be completed because there is no attribute in the bridge, he/she cannot recognize or find the attributes in the bridge. In this case, the bridge inspector should mark the attributes as not applicable.

#### **4.4.10. Estimation of Major Maintenance Costs**

The Bridge Inspector is required to prepare estimated costs of Major Maintenance to correct the defects identified in each bridge for those attributes assessed as having a condition state of 2 or 3.

The estimated costs for Major Maintenance will be used to plan programs of major maintenance, upgrading and replacement for all national bridges. It is important that reasonable accuracy cost estimates are prepared, as they will be used to assess if a bridge will be maintained, upgraded or replaced. Even when the Bridge Engineer is confident that the correct action is to replace a bridge, cost estimates to repair the assessed defects must be prepared. The definition for major maintenance is explained in Table 4-8.



**Table 4-8**  
**Definition of Major Maintenance**

| <b>Definition</b>  | <b>Major Maintenance</b>  |
|--|---|
| All bridge maintenance undertaken using a specific allocation of funds | All repair works to bridges that are outside the scope of work handled under routine maintenance and which requires a separate allocation of funds. This category would include all works to bridges to prevent deterioration, to address existing damage and to overcome conditions that may impact on the bridges. It would not include any work that would improve the level of service provided by the bridges. |

The bridge inspector shall prepare an estimated cost for each listed Major Maintenance repair. Separate work sheets shall be used to give details of the recommended major maintenance and the estimated costs of this Major Maintenance for each defined attribute.

These cost estimates shall be prepared as follows:

- For each defect prepare a list of the major activities required for the repair. This list could include items such as scaffolding, removal of damaged concrete, excavation, traffic control, reinforced concrete construction, and the like.
- Costs are estimated for each major activity based on using the material, equipment and labor requirement costs or contract rates. The estimated cost for each activity may be a lump sum.

Each estimated cost must include a reference record on the Condition Inspection Forms (CIF) for easy access to the supporting work sheets. Reference work sheets shall be designated as R-1, R-2, etc. and will be attached to the CIF.

Any bridges where the defects recorded needs some intervention, it will be subjected Engineering Inspection to define the type of intervention required, determine the scope of work and provide accurate cost estimation.



#### 4.5. Sample of Attribute Inspection Forms

For example, the concrete deck slab has 1.20mm wide cracks spaced at an average of 150mm in two directions covering an area of about 10 square meters at Span 1. Span 1 has a dimension of 7 meters width and 10meters span length. Also, Span 1 has 40cm wide water leakage.

In Figure 4-27, the CIF for damage rating of span element, the type of material for the deck attribute is concrete and the defects identified are cracking and water leakage. The severity of cracking is 3-Bad since 1.20mm with an average spacing of 150mm in two directions falls under the criteria of more than 1 mm cracking in two directions spaced at less than 200 mm. The severity of water leakage is 2-Poor since 40cm is under the criteria of more than 20cm wide.

For cracking of concrete of primary components such as deck slab, the severity of damage will be the damage rating, which in this case is **3** regardless of the size of affected area. In the CIF, the damage rating for cracking will then be **Bad**.

For water leakage where the total calculated affected area is 26%, the Condition rating Card is used to determine the damage rating. The damage rating is 2-Poor since the area affected is within 20~30% of a primary component.

When all the ratings of the observed types of defects for the deck in Span 1 are compared, the worst rating will be the condition state of the deck attribute. The attribute condition state of the deck will then be “**3**” or **Bad** since cracking has the worst rating.

**Figure 4-27**  
**Sample Attribute Form (Damage Rating)**

**Bridge Element: Span 1**  
**Bridge Attribute: Deck**

**Type of Material: Concrete**  
**Type of Damage: Cracking and Water Leakage**

| Type of Material          | Type of Damage             | Severity of Defect | Affected |           | Damage Rating | Attrib. Cond. State |
|---------------------------|----------------------------|--------------------|----------|-----------|---------------|---------------------|
|                           |                            |                    | Unit     | %         |               |                     |
| <b>DECK</b>               |                            |                    |          |           |               |                     |
| <b>X</b><br>Concrete Slab | <b>X</b> Cracking          | <b>3</b>           | -        | -         | <b>Bad</b>    | <b>3</b>            |
|                           | Spalling/Scaling/Disinteg. |                    |          |           |               |                     |
|                           | Rebar exposure/corrosion   |                    |          |           |               |                     |
|                           | Honeycomb                  |                    |          |           |               |                     |
|                           | <b>X</b> Water leakage     | <b>2</b>           | Area     | <b>26</b> | <b>Poor</b>   |                     |

The attribute condition state determined will then be specified in the CIF. For example, the condition state of “**3**” (Attention Required – Immediate) for deck attribute can be marked as shown in Figure 4-28.



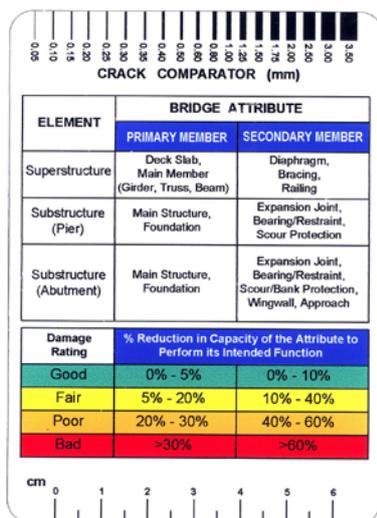
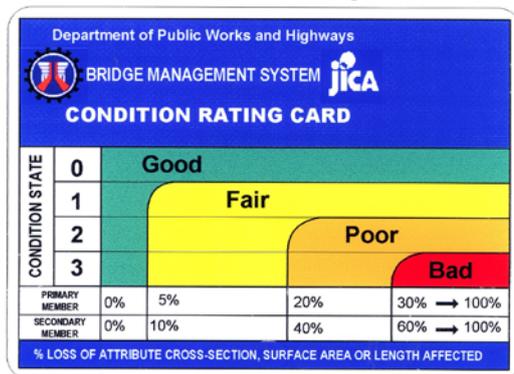
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**Figure 4-28**  
**Sample Attribute Form (Condition)**

| ATTRIBUTE        | ATTENTION REQUIRED | LEVEL OF INSPECTION                   | TYPE OF MAJOR MAINTENANCE                          | ESTIMATED COST (P)  | REFERENCE  |    |
|------------------|--------------------|---------------------------------------|--|---------------------|------------|----|
| DECK             | Immediate          | 3 <input checked="" type="checkbox"/> | Fully assessed <input checked="" type="checkbox"/> | Repair damage       | 100,000.00 | S1 |
|                  | Within 2 years     | 2 <input type="checkbox"/>            | assessed <input type="checkbox"/>                  | Protective measures |            |    |
|                  | Within 10 years    | 1 <input type="checkbox"/>            | Partially assessed <input type="checkbox"/>        | Strengthen          |            |    |
|                  | None               | 0 <input type="checkbox"/>            | assessed <input type="checkbox"/>                  | Replace             |            |    |
|                  | Not Applicable     | <input type="checkbox"/>              | Not assessed <input type="checkbox"/>              | Other               |            |    |
|                  |                    |                                       | <b>Total Estimated Cost</b>                        | <b>100,000.00</b>   |            |    |
| SECONDARY MEMBER | Immediate          | 3 <input type="checkbox"/>            | Fully assessed <input type="checkbox"/>            | Repair damage       |            |    |
|                  | Within 2 years     | 2 <input type="checkbox"/>            | assessed <input type="checkbox"/>                  | Protective measures |            |    |
|                  | Within 10 years    | 1 <input type="checkbox"/>            | Partially assessed <input type="checkbox"/>        | Strengthen          |            |    |
|                  | None               | 0 <input type="checkbox"/>            | assessed <input type="checkbox"/>                  | Replace             |            |    |
|                  | Not Applicable     | <input checked="" type="checkbox"/>   | Not assessed <input type="checkbox"/>              | Other               |            |    |
|                  |                    |                                       | <b>Total Estimated Cost</b>                        |                     |            |    |

In this case, there are no secondary members attribute for the bridge therefore the box for “Not Applicable” will be marked.

**Figure 4-29**  
**Condition Rating Card**





#### 4.6. Bridge Condition Assessment

The bridge inspector is required to assess the overall condition of the bridge based on the condition of the bridge components. The summary sheet of the CIF will be completed for the overall condition of the bridge. Data needed for this section are described below:

- **Overall Condition of the Bridge** refers to the rating given by the bridge inspector to a certain bridge. The bridge can be evaluated as good, fair, poor or bad. Note that the bridge inspector must rely on his/her engineering knowledge and judgment for the evaluation of the bridges' condition.

In general, structures described as **Good** condition shall be free of defects affecting structural performance, integrity and durability; those described in **Fair** condition may have defects which affect the durability; and those described as **Poor** condition may have defects which affect the performance and structural integrity of the structure. Those structures described as **Bad** shall have major defects and are considered to be beyond repair.

The bridge inspector shall determine the overall condition of the bridge based on the result of the condition rating of the bridge primary components/attributes and secondary component/attributes that affects structural performance such as bearings/restraints. In general, the worst condition state of any primary component and secondary component that affects structural performance will be the overall condition state of the bridge. Guidelines for assistance are included in Table 4.9.

**Table 4-9**  
**Guidelines in Assessment of Bridge Condition**

| Bridge Condition | Assessment Indicators   |
|------------------|---|
|                  | Primary Components and Secondary Components that Affects Structural Performance (Attribute Condition State) |
| Good             | 0   |
| Fair             | 1   |
| Poor             | 2   |
| Bad              | 3   |

| Bridge Condition | Recommended Countermeasures                                 | Remarks                   |
|------------------|---|---------------------------|
| Good             | Routine Maintenance   | -                         |
| Fair             | Major Maintenance (Repair, Protective Works, Strengthening) | Total of Bridge Component |
| Poor             | Major Maintenance or Upgrading                              | Total of Bridge Component |
| Bad              | Upgrading or Replacement                                    | Total of Bridge Component |



- ***Recommended Action to the Bridge*** refers to the level of rehabilitation works needed for the bridge. The recommended measures will be generally based on the overall bridge condition as shown above.
- ***Bridge Inspectors' comment on recommendation.*** The bridge inspector shall indicate his comments on the recommended activity for the bridge.
- ***Major reasons for recommendation.*** The bridge inspector shall indicate the reason(s) for the recommended activity to the bridge. Up to three (3) reasons can be selected.
- ***Estimated Remaining Bridge Life*** refers to the remaining length of time for which the bridge will remain serviceable.

#### 4.7. Deliverables

The deliverables of Condition Inspection Report are as follows:

- Condition Inspection Report
  - Bridge Condition Inspection Form (Type2)
  - Summary of condition Inspection Results
  - Repair Record
  - Inspection Results sheet (condition)
  - Inspection Results sheet (damage rating)
- Sketch drawings sheet
- Photo record sheet(Pictorial Report)
- Supporting information for proposed major maintenance
- Cost estimates for major maintenance

The Bridge Condition Inspection Reports shall be prepared in the respective Regional Office where the bridge inspectors are based. The reports shall be checked and reviewed in the Central Office for completeness and accuracy prior to finalization.

When the Bridge Condition Inspection Report would be completed, accurate and accepted, all the data shall be stored in Special Bridge Inventory Database.



## 5. ENGINEERING INSPECTIONS (TYPE 3)

### 5.1. Purpose

Bridge Engineering Inspection is undertaken as a follow-up to Bridge Condition Inspection when the condition state of 2 or 3 are recorded in any primary component/attribute or in any secondary component that has detrimental effect on the structural performance of the bridge. The purposes of a Bridge Engineering Inspection for Suspension Bridge are as follows:

- 1) To confirm the results of the Bridge Condition Inspection;
- 2) To undertake additional investigations in order to evaluate thoroughly noted defects which may include physical testing and/or structural analysis; and also to prepare a documentary record of the observed defects for future design of required major maintenance works;
- 3) To assess the current bridge structural condition, behavior and capacity;
- 4) To assess the rate of deterioration and residual life expectancy of the bridge.

### 5.2. Recommendation

In the Engineering Inspection for standard materials, attributes and so on, “Bridge Engineering Inspection Manual 2014 developed by JICA” should be referred to. However, there is no standard method in the Engineering Inspection for special materials, attributes and so on, like cable, rope, anchorage.

For example, in case of abnormal vibration of cable and rope, the extent of vibration should be measured using Video and other amplitude measuring instruments. Aside from the vibration amplitude, the tensile strength of the rope and cable should also be determined. Also when water leakage and discoloration of cable and rope element is observed, there is a possibility that the inside of rope and cable is already corroded and should be thoroughly inspected. In both instances, determining the vibration amplitude and tensile strength of the rope in Suspension Bridge is difficult for the Regional Office.

It is recommended that the Regional Office engage the services of engineering inspection/investigation firms specializing on Suspension Bridge.



## **6. EMERGENCY INSPECTION (TYPE 4)**

### **6.1. Purpose**

Emergency Inspection will be undertaken in response to calamities or occurrence of severe damages that may tend to cause substantial damage to any part of the structure. This inspection is required to confirm that the bridge remain safe to commuters following a calamity or any man-made disasters and to determine the necessary work that is required to ensure the safety of the bridge and to restore the function of the bridge.

### **6.2. Process**

There is no general process for emergency inspections as these inspections are ad-hoc inspections undertaken in difficult conditions.

### **6.3. Procedure**

No standard procedure is required for this type of inspection.

### **6.4. Deliverables**

The same sections in the BMS Manual for standard bridges are also applied to all of the above sections.



## 7. BRIDGE INVENTORY INSPECTIONS (TYPE 5)

### 7.1. Purpose

The purpose of the Inventory Inspection for Suspension Bridge is to obtain its inventory data primarily for inclusion in the Special Bridge Inventory Database. Bridge inventory data is a standardized series of information that describe the geometry, construction and current function of a bridge.

### 7.2. Process

The Inventory Inspection for the Special Bridge, is similar to the inventory inspection of standard bridges.

### 7.3. Procedure

All information collected during the bridge inventory inspection is recorded using the Inventory Inspection Forms (IIF). A sample IIF of Magapit Bridge is included in Appendix G.

The IIF is composed of two parts for the Special Bridge Inventory:

- Standard inventory sheet is the same sheet with ordinary bridges in BMS.
  - Inventory Inspection Form (Type5)
  - The special requirements for inspection.
  - The general bridge data, clearances, geometry, traffic direction, type of bridge, year of construction, public utilities carried by the bridge and detail, if there is lighting provided on the bridge, the type of terrain where the bridge is located, comments if the bridge is unusual, type of construction, substructure type, deck material, wearing surface, drainage, design load and the available drawings.
  - The Bridge Modification Sheet describes the types and materials of any modifications to the bridge.
  - The span/s of the bridge.
  - The pier/s of the bridge.
  - The bridge abutments.
- Additional geometrical data sheet for Special Bridge
  - Measurement of bridge structure (superstructure and substructure)

As Built Drawing are very important for special bridges. There is no standard drawing in



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special bridge. Each bridge has its own unique structure. “As Built Drawing” should be collected and electronic copy should be installed in the Special Bridge Inventory Database, as one of Inventory Inspection data. In case that there is no available bridge data, measurement survey on site for collecting basic bridge data and general drawings for inventory should be done. All documents pertaining to the past repair works and useful information are also important for future reference, especially when the bridge is due for retrofitting.

### 7.3.1. Description

**Figure 7-1**  
**Photo of Magapit Bridge**



Magapit Suspension Bridge is approximately 72 kilometers away from Tuguegarao City, the socio-economic capital of Cagayan Province. It is located along Magapit Road (formerly Pan-Philippine Highway) at Barangay Magapit, Lal-lo, Cagayan. The bridge was constructed in 1976 across the mighty Cagayan River. It is composed of pony truss end spans, each measuring 36.759-meter long, and a 256.60-meter steel truss stiffened suspension at center span. The suspension span is supported by two (2) - 28.30-meter high steel pylons/towers. The main suspension cables are anchored on massive concrete blocks located 76.50 meters away from the steel towers/pylons. The bridge deck is a reinforced concrete slab supported by steel stringers resting on a cantilever abutments and column type piers. The bridge has a carriageway width of 7.315 meters and 1.06-meter sidewalks.



### 7.3.2 Inspection Form

The Bridge Inventory Inspection Form (IIF) and attached drawings are prepared specifically for Magapit Bridge as shown in Appendix I.

### 7.3.3 Location and Inventory Data Collection

The bridge inspector shall inspect the bridge and complete the Location and Inventory Sections of the IIF. This can generally be completed by checking the appropriate box and by inserting the required names and numbers.

Several parts of the IIF can be completed even without having to go to the bridge site. Note however, that all data shall be verified on site.

Data needed for Location and Geographic Information are described in Table 7-1.

**Table 7-1**  
**Bridge Location Data**

| <b>Data Description</b>                                     | <b>Comment</b>  |
|---|---|
| Bridge ID   | Unique identification number assigned by the RBIA for each bridge                             |
| Bridge Name   | The name given to the bridge  |
| Road Name   | The name of the road on which the bridge is located.  |
| Road ID   | Unique identification number assigned by the RBIA for the road on which the bridge is located |
| Section ID  | The unique identification number assigned to the specific road section containing the bridge  |
| Location  | The location of the bridge within the road section based on the LRS                           |
| Region  | Region in which the bridge is located   |
| Engineering District  | Engineering District which is responsible for the management and maintenance of the bridge    |
| Province, Congressional District, Municipality and Barangay | The administrative area in which the bridge (i.e. the first abutment) is located.             |
| River Name  | The name of the stream crossed by the bridge (where appropriate)                              |

The bridge inspector shall take note of any particular requirements to gain access or to inspect all parts of the bridge for use in planning future bridge condition inspections. Check the appropriate boxes in *Special Inspection Requirements*, of the CIF for items such as ladders, inspection vehicles, boats, etc.



A bridge is made up of various inventory elements:

- General
- Modifications
- Spans
- Piers
- Abutments

#### **7.4 Deliverables**

The deliverables of Inventory Inspection Report are as follows:

- The Bridge inventory Inspection Reports
  - A fully completed Inventory Inspection Form (IIF).
  - Geometrical data sheet for Special Bridge
- As Built Drawings
- Data of repair history
- Inventory photographs

The Bridge Inventory Inspection Reports shall be prepared by the bridge inspectors. The reports shall be checked and reviewed in the Regional Office for completeness and accuracy prior to finalization.

When the Bridge Inventory Inspection Report would be completed, accurate and accepted, all the data shall be stored in Special Bridge Inventory Database.



## 8. BRIDGE GEOMETRICAL INSPECTION (TYPE 6)

### 8.1. Purpose

The purpose of the Geometrical Inspection for Special Bridge is to obtain data primarily of a basic information of special/long span bridge. Bridge would be moved or deformed by impermissible loading from heavy vehicles or deformed due to a disaster. Deformation, movement, change of alignment of members should be measured regularly. It is useful information for analysis of bridge deformation.

### 8.2. Procedure

Geometric dimensions of special/long span bridge should be measured every three years using measuring survey equipment, like Total Station.

When severe disasters occurred, like earthquake, typhoon and ship or car collision, Geometrical Inspection should be undertaken in order to confirm the degree of deformation.

Geometrical inspection methods are shown in Figure 8-1,8-2 and 8-3. As a reference, forms of Geometrical Inspection of Magapit Bridge are shown in Appendix J.

The Geometrical inspection is composed of a three-part measurement survey:

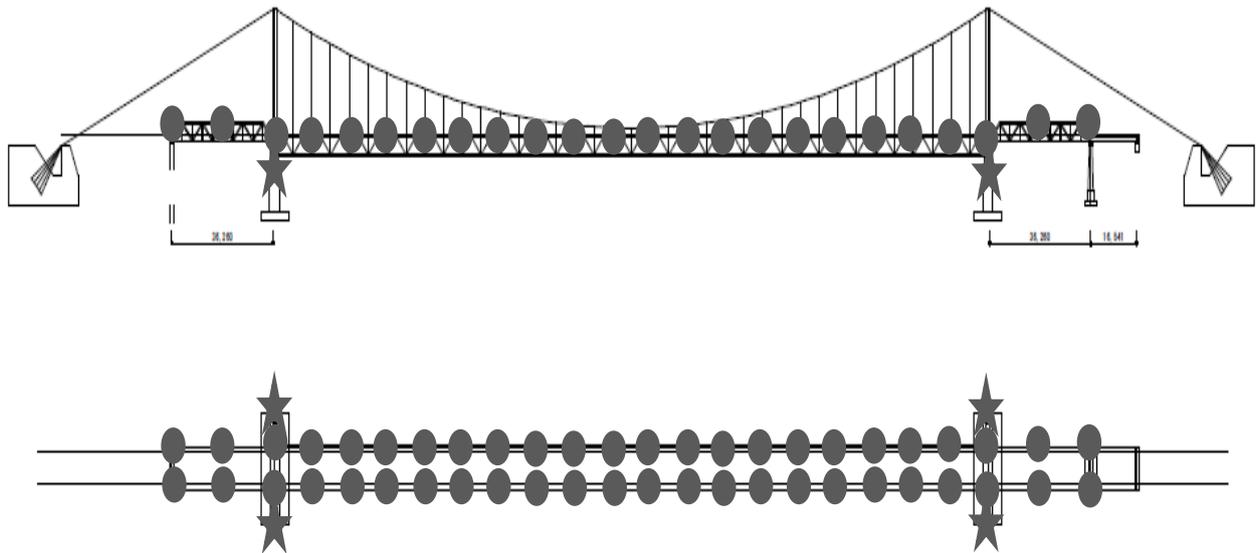
- Leveling of super structure and substructure
  - Elevation of longitudinal alignment of deck surface
  - Elevation of piers and abutments
- Slope of tower and top chord
- Movement of bearing and expansion joint

In case there is an official bench mark that is close to the bridge, it should be used for the leveling of bridge. Likewise, additional bench mark should be established around the bridge during the inspection

The result of Geometrical Inspection should be stored in the Special Bridge Inventory Database. After Geometrical Inspection, Bridge Inspector and Bridge Engineer should analyze and compare the previous year is result. If excessive movement was observed, further investigation such as Engineering Inspection should be conducted in order to determine the appropriate corrective measure to be undertaken.

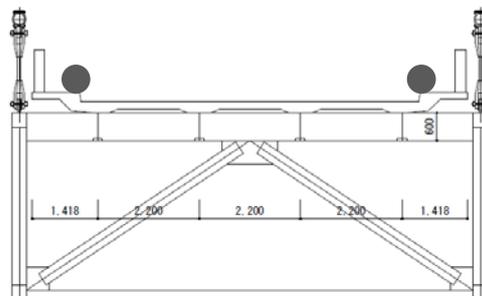


**Figure 8-1**  
**Geometrical Inspection:**  
**Leveling of Abutments and longitudinal alignment of deck surface**



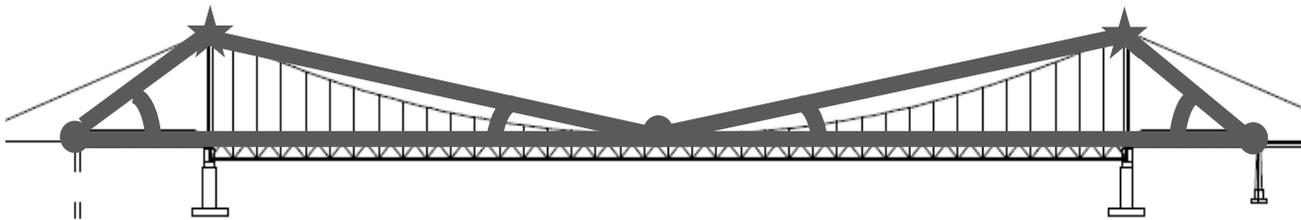
● : Leveling measure point for deck surface

★ : Leveling measure point for piers



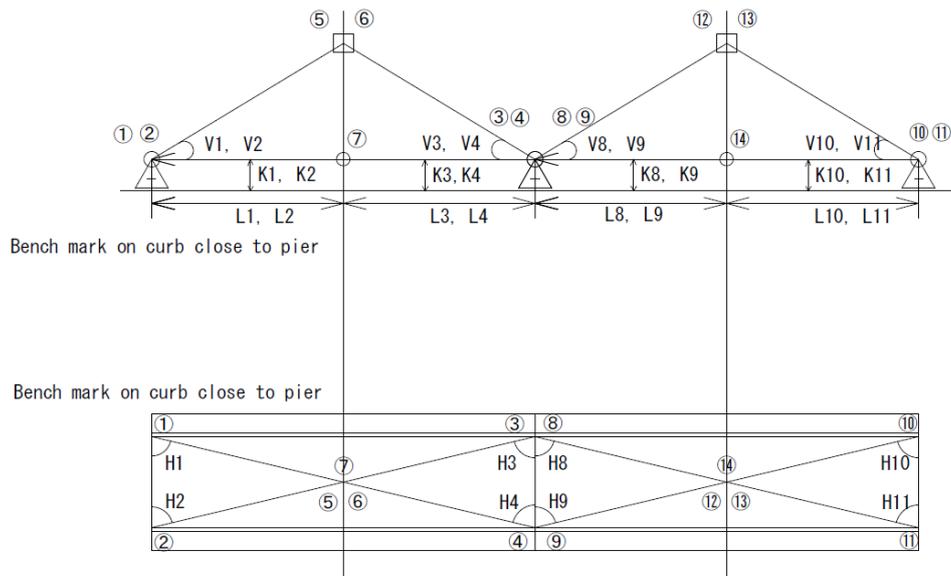


**Figure 8-2**  
**Geometrical Inspection:**  
**Slope of Vertical Alignment of tower**



● : Bench mark point

★ : Measure point

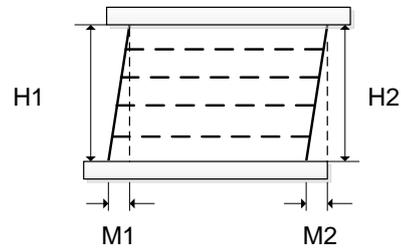


Measure: Angle(vertical):  $V1', V2', V3', V4', V8', V9', V10', V11'$ ,  
Angle(Horizontal):  $H1', H2', H3', H4', H8', H9', H10', H11'$   
Length:  $L1', L2', L3', L4', L8', L9', L10', L11'$   
Height:  $K1', K2', K3', K4', K8', K9', K10', K11'$

Raise:  $K1'+\tan V1'*L1'$   $K8'+\tan V8'*L8'$       Slope:  $L1'/\tan H1'$   $L8'/\tan H8'$   
 $K2'+\tan V2'*L2'$   $K9'+\tan V9'*L9'$        $L2'/\tan H2'$   $L9'/\tan H9'$   
 $K3'+\tan V3'*L3'$   $K10'+\tan V10'*L10'$        $L3'/\tan H3'$   $L10'/\tan H10'$   
 $K4'+\tan V4'*L4'$   $K11'+\tan V11'*L11'$        $L4'/\tan H4'$   $L11'/\tan H11'$

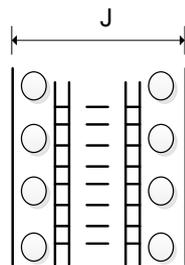


**Figure 8-3**  
**Geometrical Inspection: Movement of Bearing and Expansion Joint**

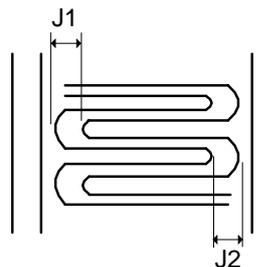


Bearing

Measure every bearing (everytime use same marking point)



Rubber Type



Steel Finger Type

$$J = (J1 + J2) / 2$$

Expansion Joints

Measure 5 selected points in each joint and average (everytime use same marking point)



### 8.3. Deliverables

The deliverables of Geometrical Inspection Report are as follows:

- The Geometrical Inspection reports  
A fully completed Geometrical Inspection Form (GIF).
- Updated Geometrical Inspection (past 3times data)
- Inventory photographs

The Bridge Geometrical Inspection Report shall be prepared by the Bridge Inspector. The report shall be checked and reviewed in the Regional Office for completeness and accuracy prior to finalization.

When the Bridge Geometrical Inspection Report would be completed, accurate and accepted, all the data shall be stored in Special Bridge Inventory Database.



## **APPENDIX A**

### **LIST OF SPECIAL BRIDGES IN REGION II, III, VIII AND XIII**



**List of Special Bridges in Region II**

**DPWH.R.O. II**

| Bridge ID No. | Name of Bridge            | Km. Station | Road Section (I.D. No./Name) | L O C A T I O N |          |        |          | D E S C R I P T I O N |                  |                 |           |             |                   | Remarks   |                   |                    |  |
|---------------|---------------------------|-------------|------------------------------|-----------------|----------|--------|----------|-----------------------|------------------|-----------------|-----------|-------------|-------------------|-----------|-------------------|--------------------|--|
|               |                           |             |                              | Mun./City       | Province | Region | District | No. of Span           | Total Length (m) | Center Span (m) | Width (m) | Type        | Construction Year |           | As Built Drawings |                    |  |
|               |                           |             |                              |                 |          |        |          |                       |                  |                 |           |             |                   |           |                   |                    |  |
| B011131Z      | Magabit Suspension Bridge | K0714+1.272 | S006681Z                     | Lal-Lo          | Cagayan  | II     | CFDEO    | 3                     | 346.66           | 256.60          | 7.315     | Suspension  | 1976              | Available |                   | Rehabilitated 2012 |  |
| B01086LZ      | Piggatan Bridge           | K0525+831   | S006571Z                     | Acala           | Cagayan  | II     | CFDEO    | 1                     | 74.70            | 74.70           | 7.32      | Steel Truss | Post 1970         | Not known |                   | Strengthened 2005  |  |
| B01084LZ      | Tupang Bridge             | K0520+510   | S006571Z                     | Acala           | Cagayan  | II     | CFDEO    | 1                     | 61.80            | 60.00           | 7.32      | Steel Truss | 2008              | Not known |                   | -                  |  |
| B02053LZ      | Ba.ua Bridge No. 2        | K0619+82    | S046631Z                     | Gonzaga         | Cagayan  | II     | CFDEO    | 1                     | 129.60           | 129.00          | 7.32      | Steel Truss | 1987              | Not known |                   | -                  |  |
| B02040LZ      | Pateng Bridge No.2        | K0602+616   | S046631Z                     | Gonzaga         | Cagayan  | II     | CFDEO    | 1                     | 129.60           | 129.00          | 7.32      | Steel Truss | 1989              | Not known |                   | -                  |  |
| B01926LZ      | Burrun Bridge             | K0486+280   | S041701Z                     | Tuguegarao City | Cagayan  | II     | CTDEO    | 17                    | 1102.65          | 74.00           | 6.3       | Steel Truss | 1970              | Not known |                   | -                  |  |
| B01168LZ      | Garuu Bridge              | K0391+796   | S007811Z                     | Gamu            | Isabela  | II     | ISDEO    | 11                    | 443.21           | 73.88           | 7.32      | Steel Truss | 1964              | None      |                   | -                  |  |
| B01409LZ      | Naguilan Bridge           | K0382+-1741 | S007821Z                     | Naguilan        | Isabela  | II     | ISDEO    | 13                    | 689.60           | 85.00           | 7.7       | PCBG        | 1999              | None      |                   | -                  |  |
| B01200LZ      | Ippil Bridge              | K0335+867.5 | S00812LZ                     | Echague         | Isabela  | II     | IFDEO    | 3                     | 124.20           | 74.15           | 7.33      | Steel Truss | 1974              | Not known |                   | -                  |  |
| B01204LZ      | Jones Bridge              | K0355+27    | S00821LZ                     | Jones           | Isabela  | II     | IFDEO    | 6                     | 362.00           | 62.50           | 7.32      | Steel Truss | 2007              | Not known |                   | UK Assisted Bridge |  |
| B03367LZ      | Disimungal Bridge No. 2   | K0391+78    | S04745LZ                     | Nagtipunan      | Quirino  | II     | ODEO     | 1                     | 62.00            | 62.00           | 7.24      | Steel Truss | 2009              | Not known |                   | UK Assisted Bridge |  |
| B03368LZ      | Gawagan Bridge            | K0405+900   | S04755LZ                     | Nagtipunan      | Quirino  | II     | ODEO     | 1                     | 62.40            | 60.40           | 7.28      | Steel Truss | 2006              | None      |                   | UK Assisted Bridge |  |
|               |                           |             |                              |                 |          |        |          |                       |                  |                 |           |             |                   |           |                   |                    |  |
|               |                           |             |                              |                 |          |        |          |                       |                  |                 |           |             |                   |           |                   |                    |  |
|               |                           |             |                              |                 |          |        |          |                       |                  |                 |           |             |                   |           |                   |                    |  |



**List of Special Bridges in Region VIII**

| DPWH R.O. VIII |                 | L O C A T I O N |   |                    |           |        |                       | D E S C R I P T I O N |                  |                 |           |          |                   | Remarks           |   |
|----------------|-----------------|-----------------|---|--------------------|-----------|--------|-----------------------|-----------------------|------------------|-----------------|-----------|----------|-------------------|-------------------|---|
| Bridge ID No.  | Name of Bridge  | Km. Station     | Road Section/D. No./Name  | Mun./City          | Province  | Region | District              | No. of Span           | Total Length (m) | Center Span (m) | Width (m) | Type     | Construction Year | As Built Drawings | Remarks   |
| B00025BR       | Ananabag Br.    | 1066+100        | S00002BR Biliran Circum. Rd.                                    | Mun. of Culaba     | Biliran   | VIII   | Biliran DEO           | 1                     | 60.00            | 60.00           | 8.80      | Steel    | 2005              | None              | Single Span                                     |
| B00057BR       | Biliran Br.     | 1006+1092       | S00001BR Leyte-Biliran Rd.                                      | Mun. of Biliran    | Biliran   | VIII   | Biliran DEO           | 6                     | 252.00           | 128.80          | 8.76      | Steel    | 1976              | None              | Six Spans: 31.00-30.00-15.00-128.80-16.00-31.00 |
| B00093LT       | Galangise Br.   | 989+007         | S00113LT Samaritan Acto-Calahang-Cabbaran Rd.                   | Mun. of Villaba    | Leyte     | VIII   | 3rdLEDO               | 3                     | 219.00           | 73.00           | 10.10     | Steel    | -                 | None              | Three Spans: 73.00-73.00-73.00                  |
| B00551LT       | Layog Br.       | 1000+905        | S00166LT Daang Maharika (LT)                                    | Mun. of Mahaplag   | Leyte     | VIII   | 5thLEDO               | 2                     | 148.11           | -               | -         | Steel    | 1976              | None              | Two Spans: 74.21-73.90                          |
| B00552LT       | Baliacaw Br.    | 1002+852        | S00166LT Daang Maharika (LT)                                    | Mun. of Mahaplag   | Leyte     | VIII   | 5thLEDO               | 1                     | 74.26            | 74.26           | -         | Steel    | 1976              | None              | Single Span                                     |
| B00275SM       | Palanit Br.     | 685+813         | S00001SM Daang Maharika (SM) (San Isidro-San Juanico Br)        | Mun. of San Isidro | N. Samar  | VIII   | NSEED 1st             | 3                     | 123.00           | 25.00           | 9.35      | Steel    | -                 | None              | Three Spans: 73.00-25.00-25.00                  |
| B00246SM       | Mawo Br.        | 688+740         | S00002SM Daang Maharika (SM) (San Isidro-San Juanico BR)        | Mun. of San Isidro | N. Samar  | VIII   | NSEED 1st             | 2                     | 260.00           | -               | -         | Steel    | -                 | None              | Two Spans: 130.00-130.00                        |
| B00359SM       | Gandara Br.     | 763+526         | S00062SM Daang Maharika (SM) (San Isidro-San Juanico Br)        | Mun. of Gandara    | Samar     | VIII   | Samar 1               | 5                     | 168.00           | 59.00           | -         | Steel    | 1970              | None              | Five Spans: 31.00-31.00-59.00-31.00-16.00       |
| B00387SM       | Calbiga Br.     | -               | S00095SM Daang Maharika (SM) (San Isidro-San Juanico Br)        | Mun. of Calbiga    | Samar     | VIII   | Samar 2               | 3                     | 105.36           | 59.00           | -         | Steel    | 1970              | None              | Three Spans: 16.18-79.00-10.18                  |
| B00386LT       | Marcusa Br.     | 1069+157        | S00210LT Jet Hinny-angon-Silago-Abyog Rd                        | Mun. of San Juan   | So. Leyte | VIII   | SLED                  | 1                     | 66.80            | 66.80           | -         | Concrete | 2005              | None              | Single Span                                     |
| B00475LT       | Mang Br.        | 1120+176        | S00240LT Jet Hinny-angon-Silago-Abyog Rd                        | Mun. of Silago     | So. Leyte | VIII   | SLED                  | 1                     | 61.25            | 61.25           | -         | Steel    | 2005              | None              | Single Span                                     |
| B00586LT       | Dampoy Br.      | 1015+687        | S00231LT Daang Maharika (LT)                                    | Mun. of Sagod      | So. Leyte | VIII   | SLED                  | 3                     | 101.00           | 74.00           | -         | Steel    | 1976              | None              | Three Spans: 15.00-74.00-12.00                  |
| B00616LT       | Lilo-an Br.     | 1054+509        | S00231LT Daang Maharika (LT)                                    | Mun. of Lilo-an    | So. Leyte | VIII   | SLED                  | 3                     | 129.30           | -               | -         | Steel    | 1977              | None              | Main Span                                       |
| B00622LT       | Agas-Agas Br.   | 1006+0977       | S00231LT Daang Maharika (LT)                                    | Mun. of Sagod      | So. Leyte | VIII   | SLED                  | 3                     | 350.00           | 150.00          | 9.52      | Concrete | 2009              | None              | Three Spans: 100.00-150.00-100.00               |
| B00018LT       | San Juanico Br. | -               | S00013LT Daang Maharika (SM) (San Juanico North-South Backbone) | City of Tacloban   | Leyte     | VIII   | Taclob. Engrg. Office | -                     | 2100.00          | -               | -         | Steel    | -                 | None              |   |



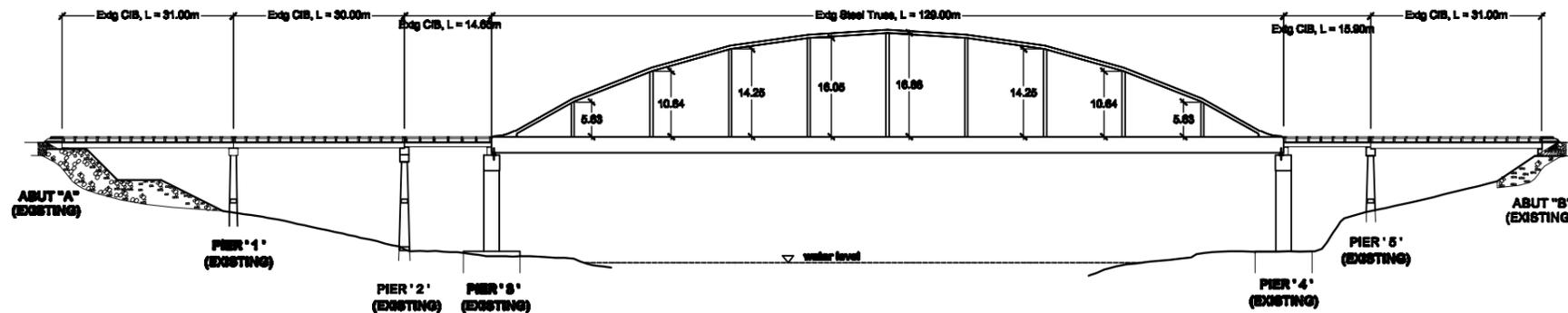
## **APPENDIX B**

### **EXAMPLE DRAWINGS BY MEASURE SURVEY IN BILIRAN BRIDGE AND LILOAN BRIDGE**



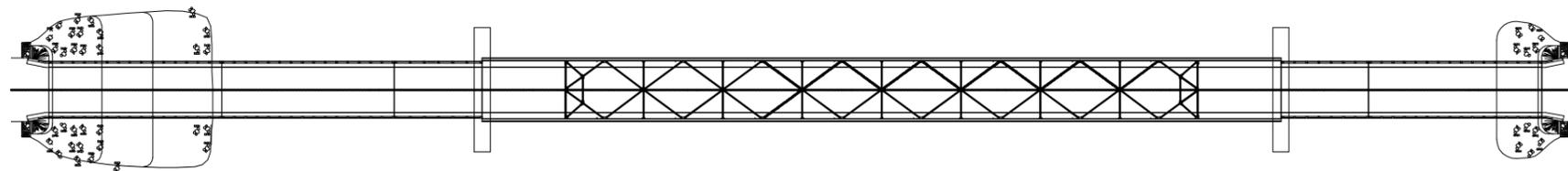
# **MEASURE SURVEY OF BILIRAN BRIDGE**





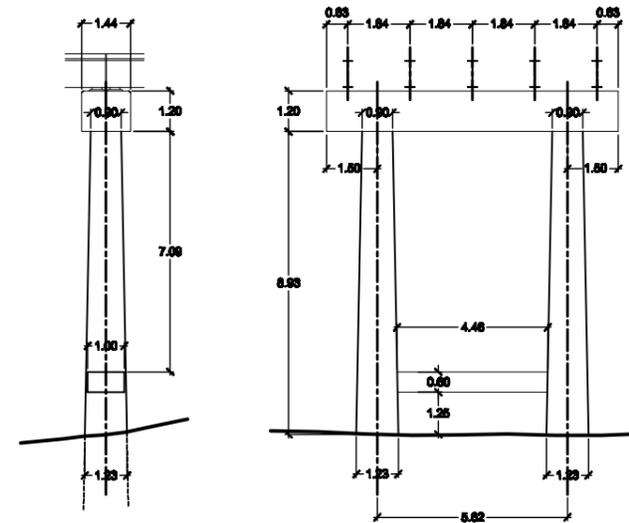
**GENERAL ELEVATION**

SCALE: 1:500 m



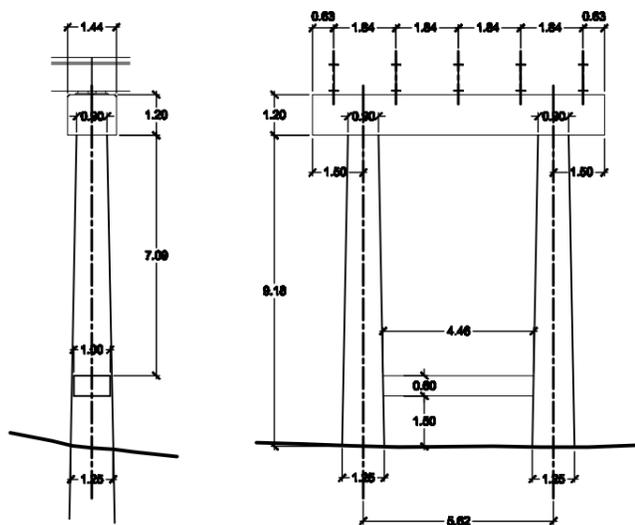
**GENERAL PLAN**

SCALE: 1:500 m



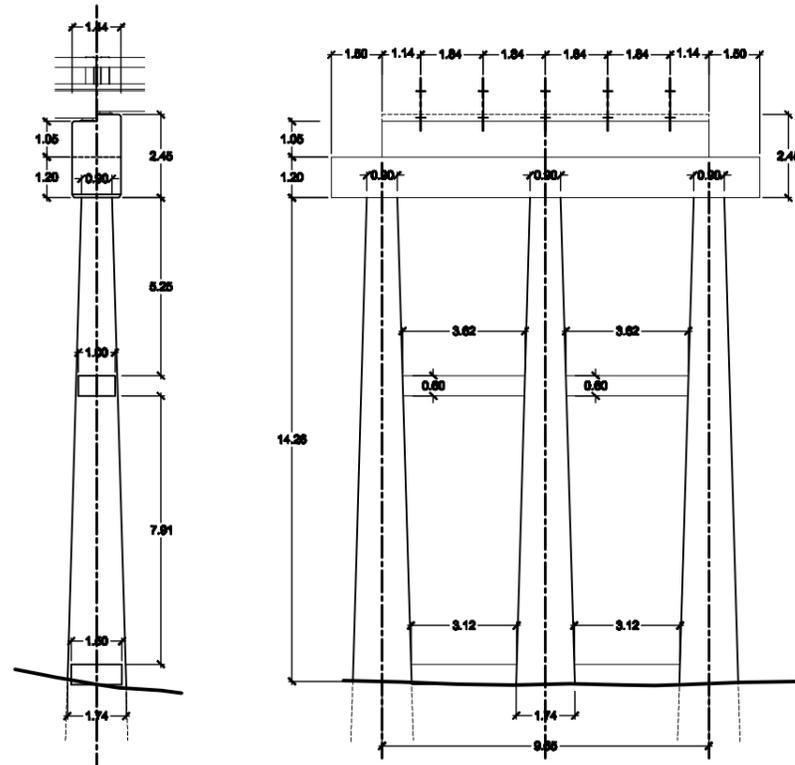
**DETAIL OF PIER 5**

Scale 1:100 mts



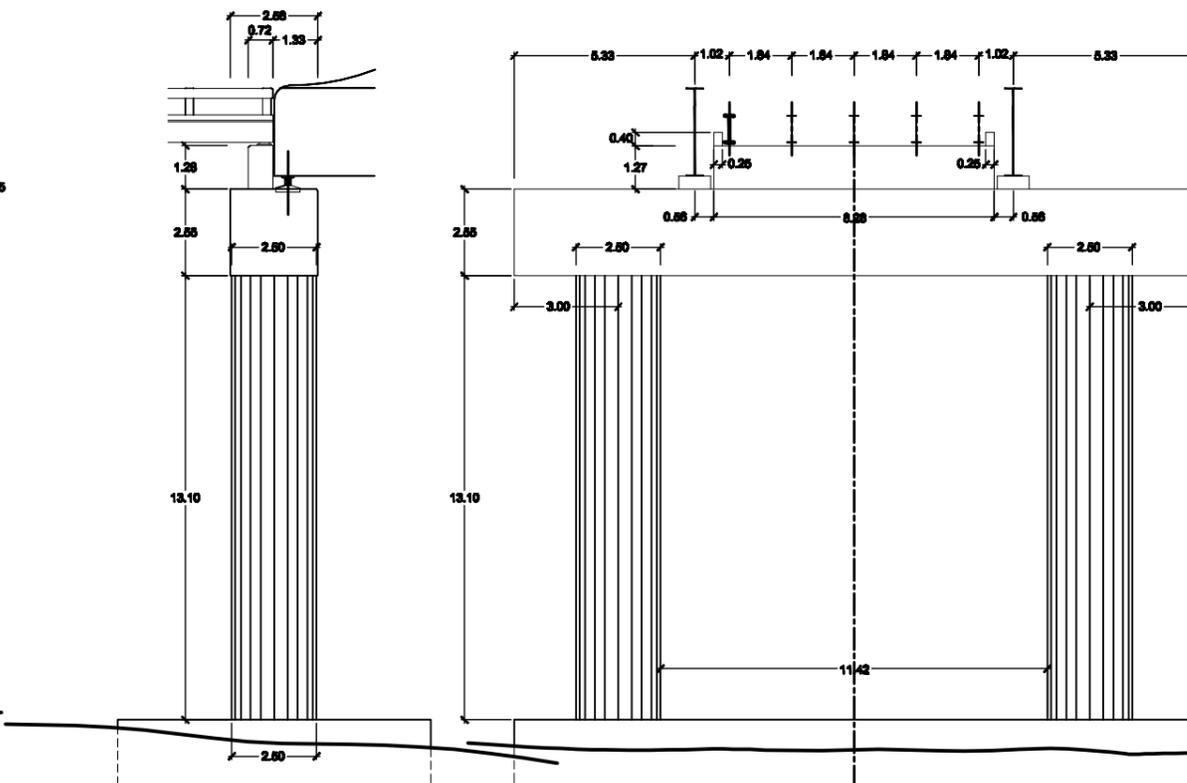
**DETAIL OF PIER 1**

Scale 1:100 mts



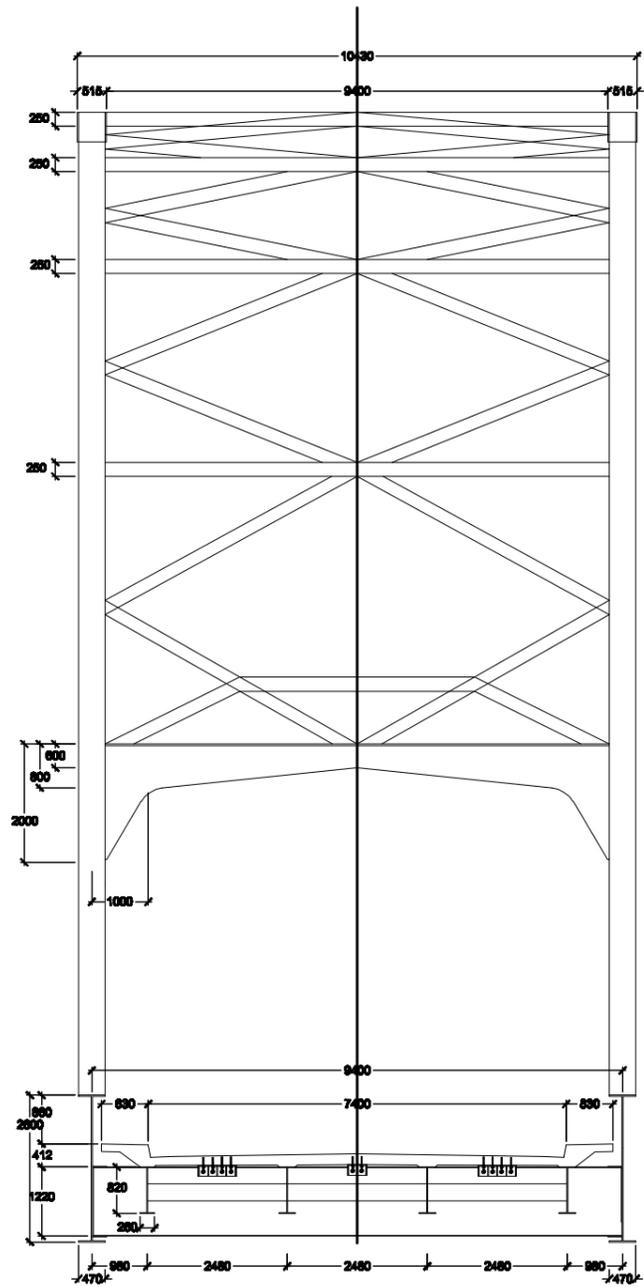
**DETAIL OF PIER 2**

Scale 1:100 mts

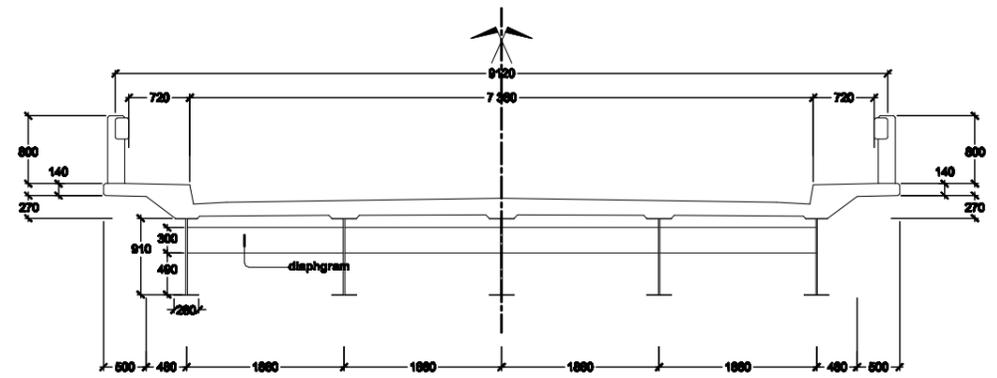


**DETAIL OF PIER 3 & 4**

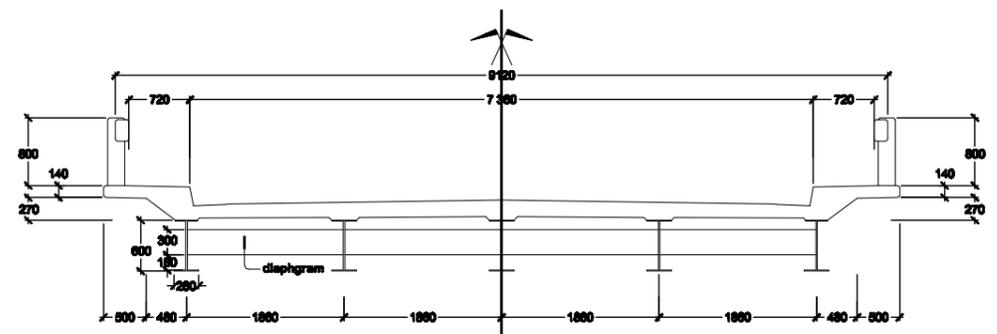
Scale 1:100 mts



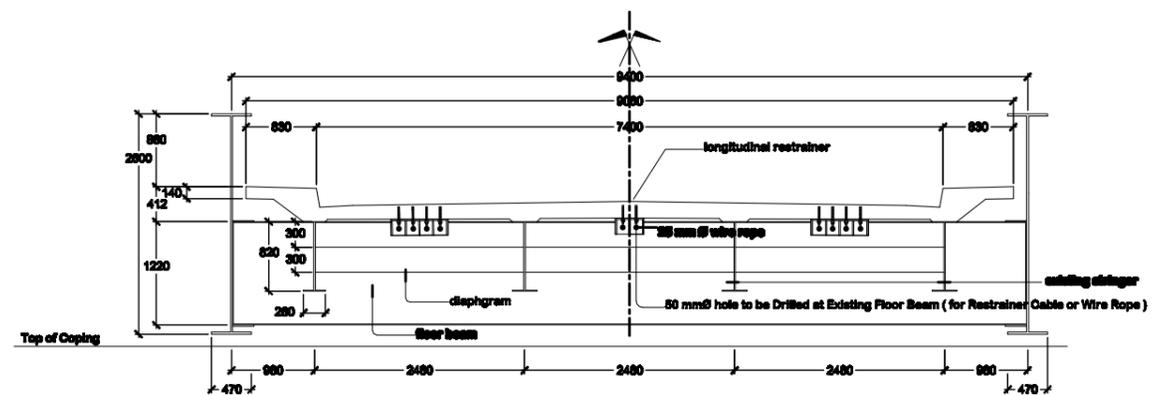
**SECTION STEEL TRUSS SPAN**  
Scale 1:40 mtr



**SECTION of SPAN 1 & SPAN 2 & SPAN 6**  
Scale 1:40 mtr



**SECTION of SPAN 3 & SPAN 5**  
Scale 1:40 mtr



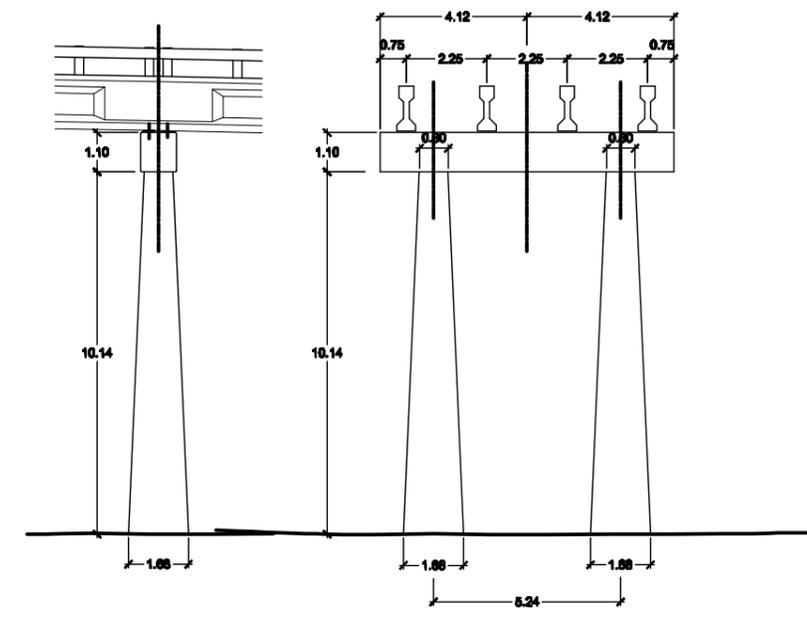
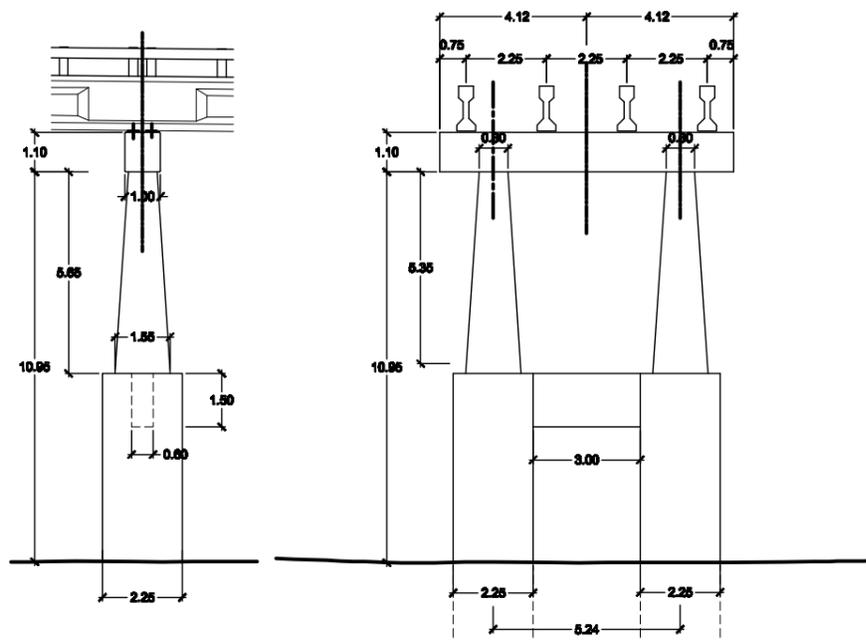
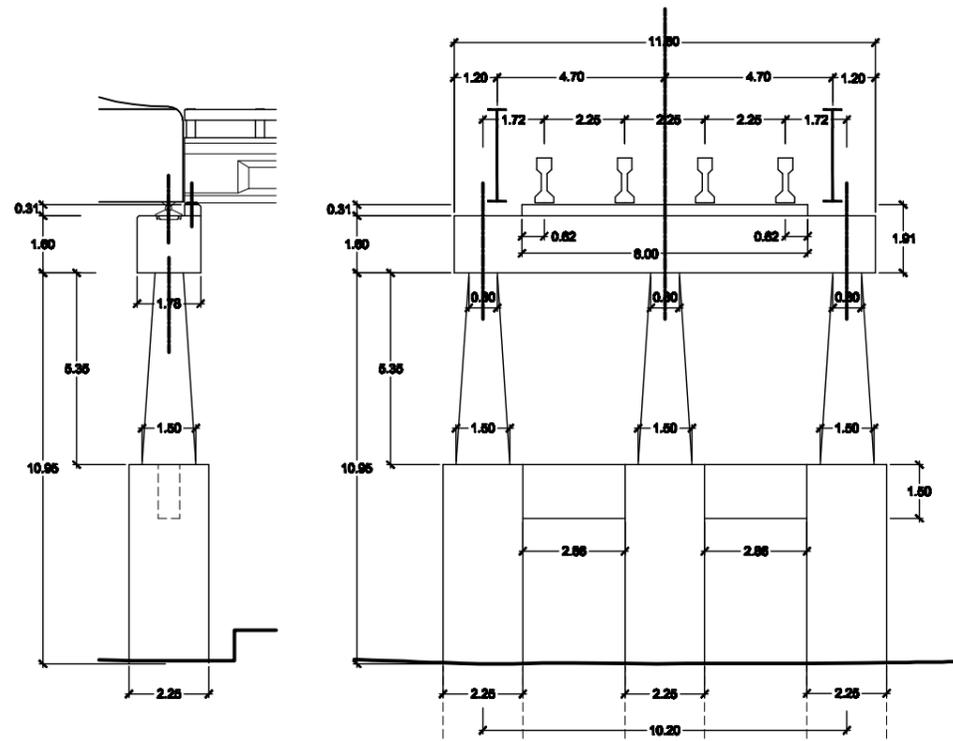
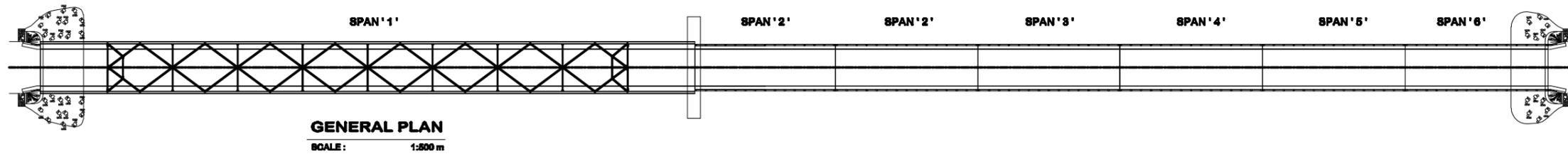
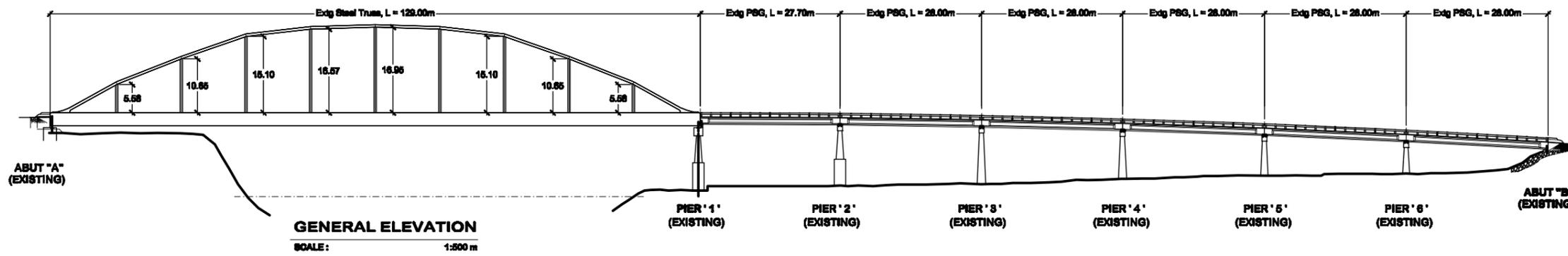
**SECTION STEEL TRUSS SPAN**  
Scale 1:40 mtr

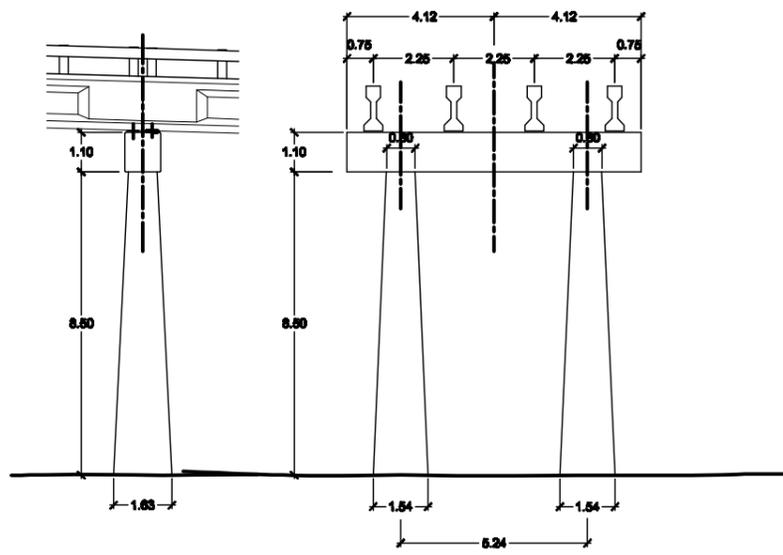




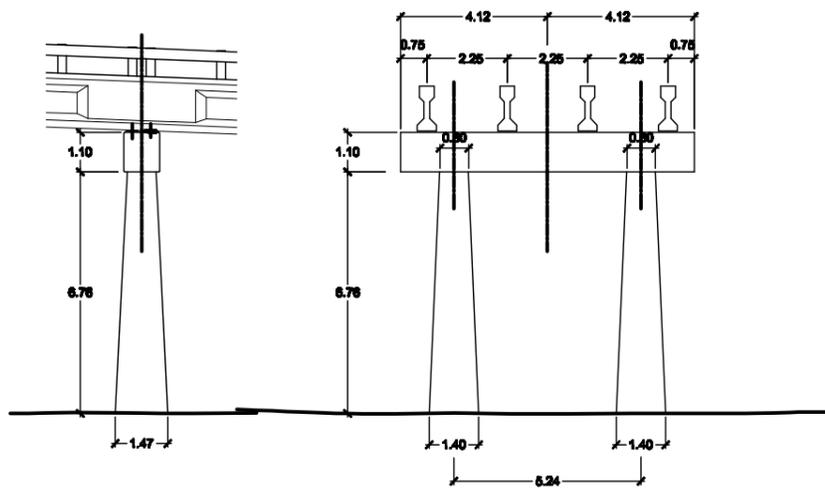
# **MEASURE SURVEY OF LILOAN BRIDGE**



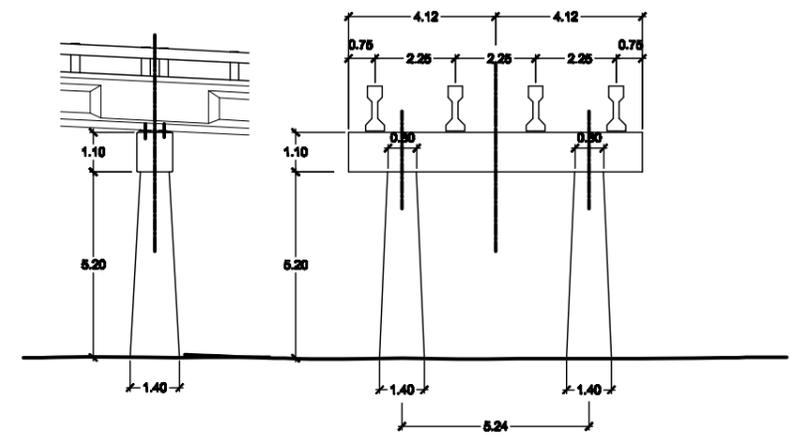




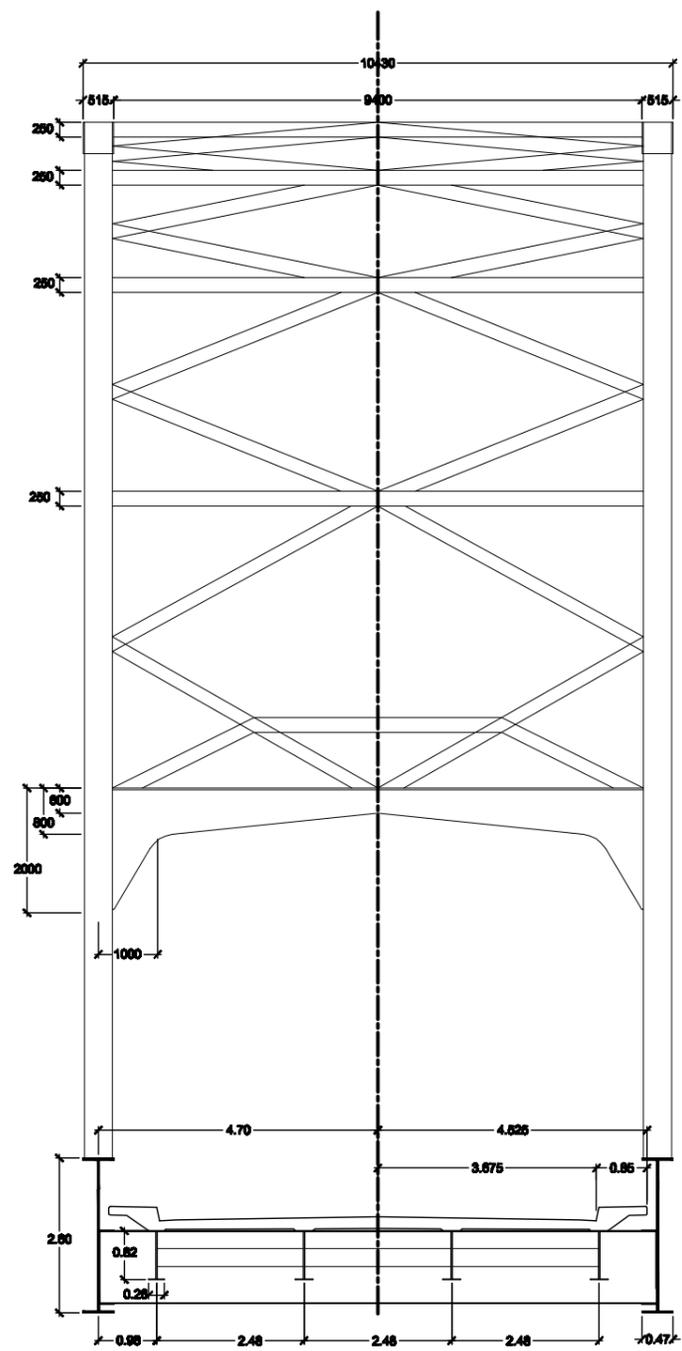
**DETAIL OF PIER 4**  
Scale 1:100 mts



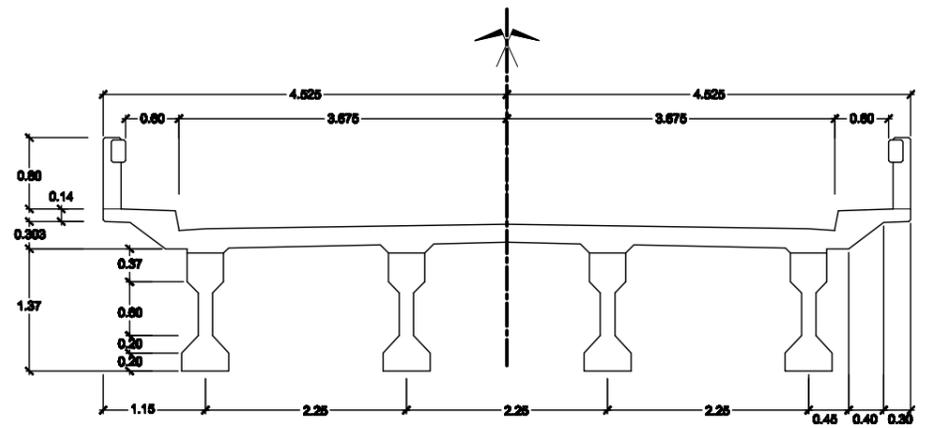
**DETAIL OF PIER 5**  
Scale 1:100 mts



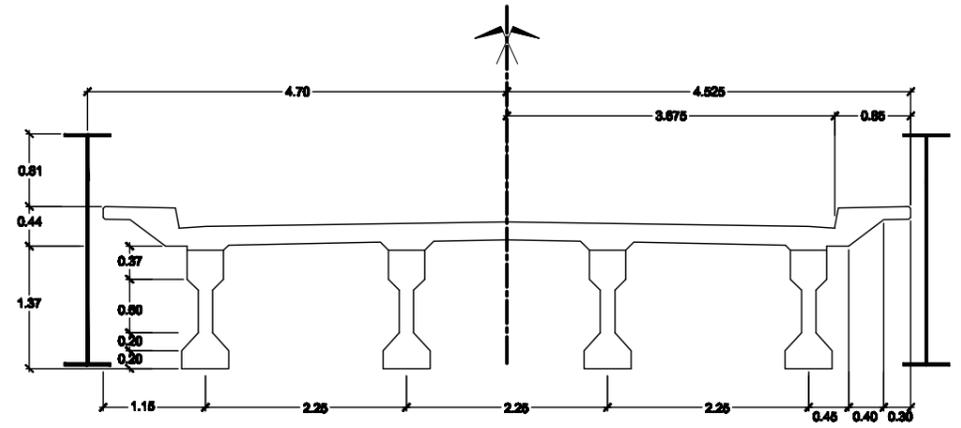
**DETAIL OF PIER 6**  
Scale 1:100 mts



**SECTION STEEL TRUSS SPAN**  
Scale 1:50 mtr



**SECTION of SPAN 2 to SPAN 7**  
Scale 1:40 mtr



**SECTION of MAIN SPAN**  
Scale 1:40 mtr



# **APPENDIX C**

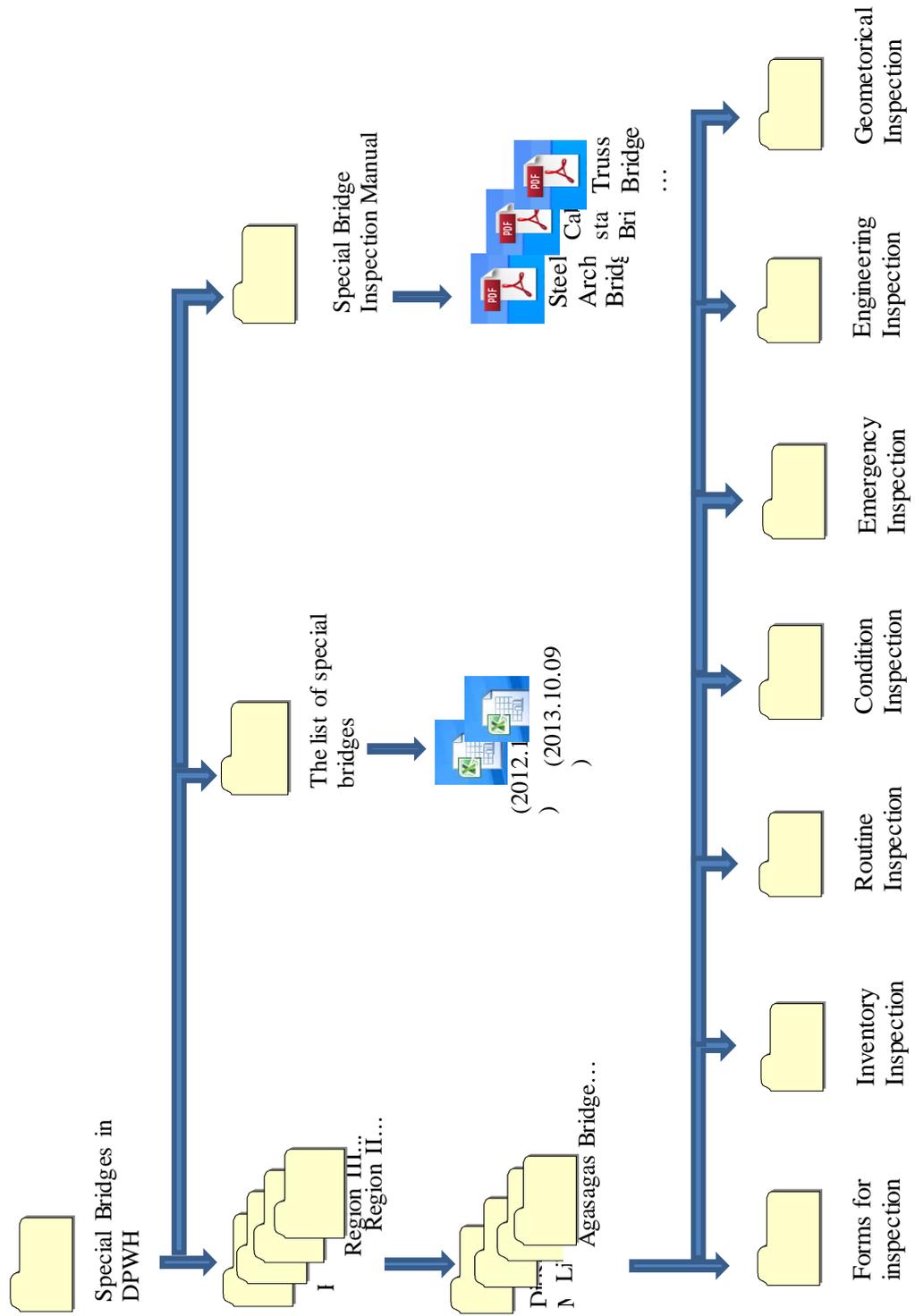
## **FLOWCHART**

### **FOR SPECIAL BRIDGE**

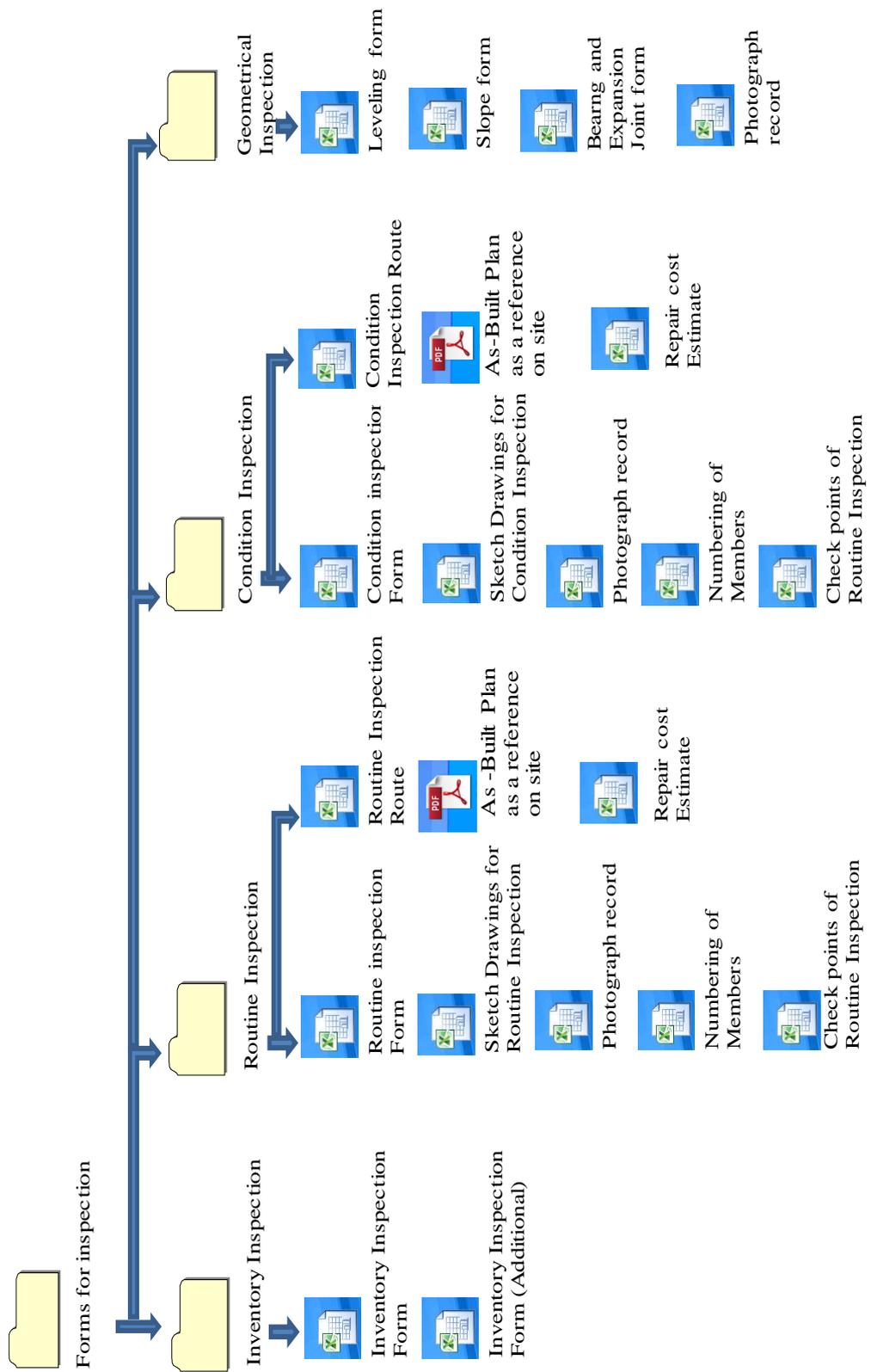
### **INVENTORY DATABASE**



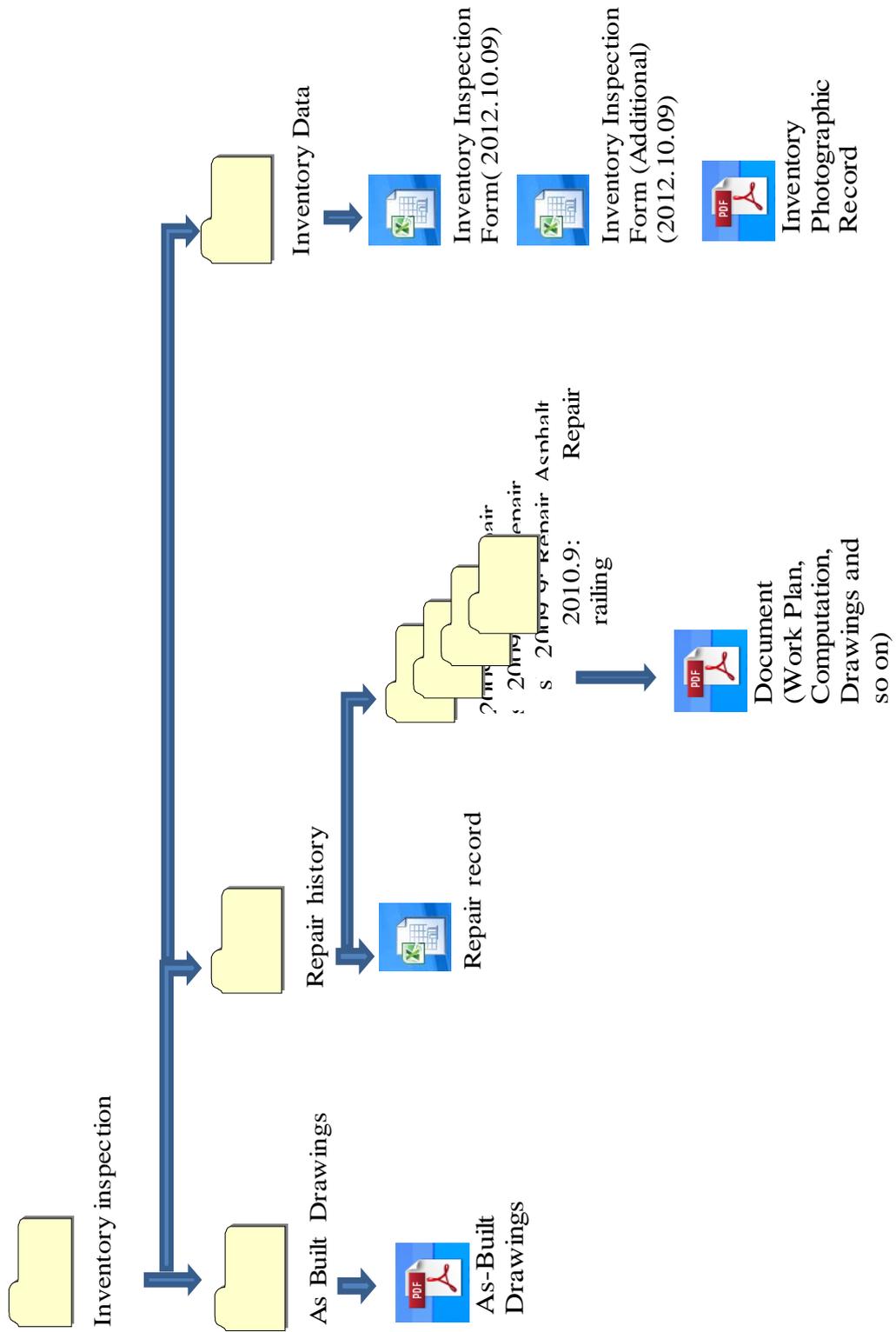
## Appendix C Special Bridge Inventory Database (1 of 5)



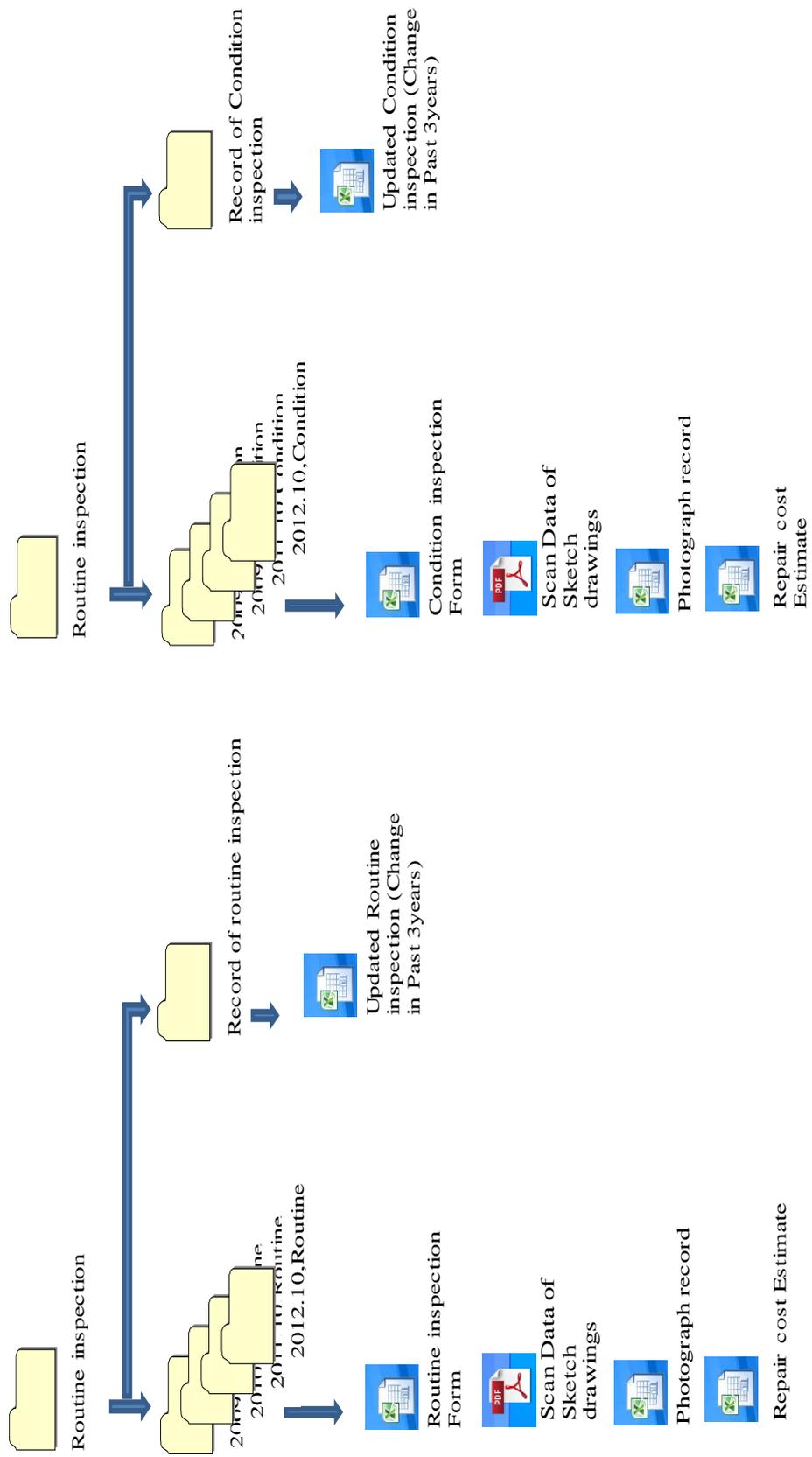
## Appendix C Special Bridge Inventory Database (2 of 5)



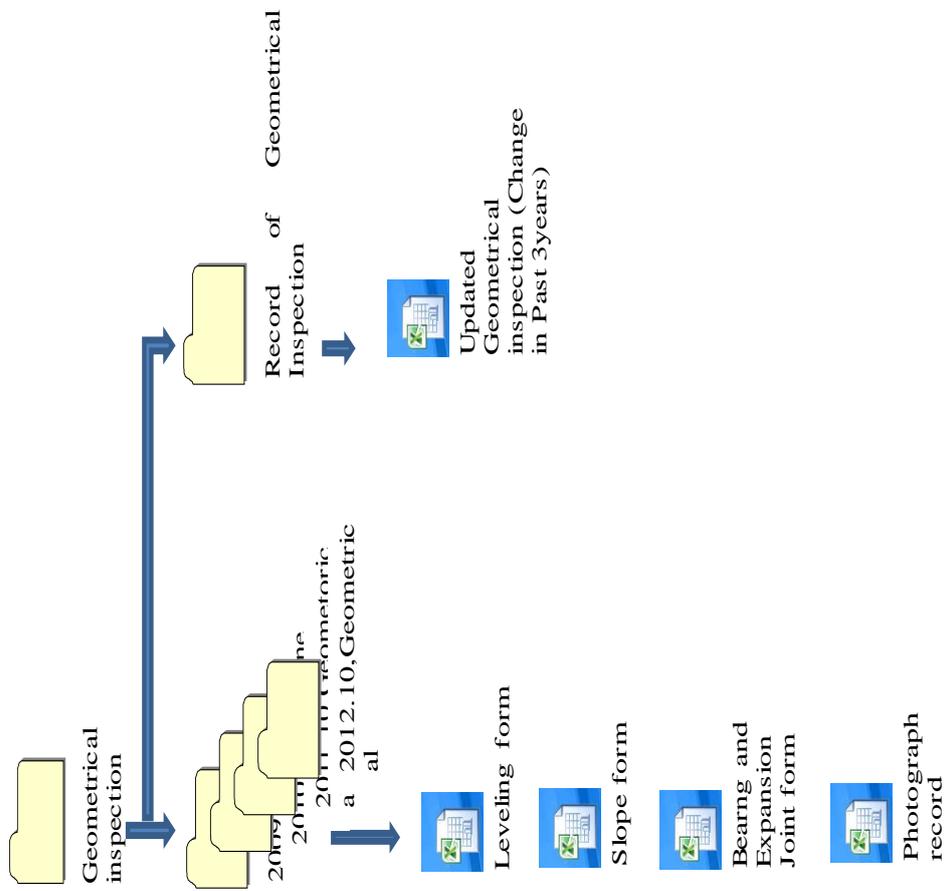
**Appendix C  
Special Bridge Inventory Database (3 of 5)**



## Appendix C Special Bridge Inventory Database (4 of 5)



**Appendix C  
Special Bridge Inventory Database (5 of 5)**





## **APPENDIX D**

### **ASPHYXIA AND LOW OXYGEN**





## Appendix D

### Asphyxia and Low Oxygen

When inspectors enter into a hollow portion of a bridge member like box girder, tower, box shape chord and so on, oxygen density in these members should be detected first. Normally, the volume of oxygen level in the air is 20.90%. Any depletion of this normal oxygen level in the air must be treated with concern. As a minimum, 19.50% concentration should be maintained and be defined as workable oxygen level. Atmosphere containing less than 18% oxygen level on the other hand should be defined as potentially dangerous for humans.

Asphyxia or asphyxiation as a result of oxygen depletion can take place on a gradual or sudden basis. It is a little known fact that inhalation of a gas containing low oxygen can result in immediate unconsciousness or rapid death.

**Table D-1**  
**Signs and Symptoms of Asphyxia**

| Oxygen content of air | Signs and symptoms of Asphyxia  |
|-----------------------|---|
| 18-19.5%              | May affect physical and intellectual performance without person's knowledge   |
| 15-18%                | Decreased ability to work strenuously. May impair coordination and induce early symptoms in persons with coronary pulmonary or circulatory problem. |
| 12-15%                | Respiration and pulse increase, impaired coordination, perception and judgment occur.   |
| 10-12%                | Respiration further increases in rate and depth, poor judgment and bluish lips occur.   |
| 8-10%                 | Mental failure, nausea, vomiting, fainting, unconscious, an ash-colored face, blue lips.  |
| 6-8%                  | Loss of consciousness within a few minutes, resuscitation possible if carried out immediately   |
| 0-6%                  | Loss of consciousness almost immediate, death ensues, brain damage even if rescued  |

Usually there is little risk of low oxygen in the areas inside bridge members. However, some situations like accumulation of dirty water, vegetation, carcass of animals, dropping of birds, cause depletion of oxygen inside bridge members. Therefore, inspector should prepare gas



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detector before inspection and be trained correct in the use of detection equipment. A typical oxygen depletion detector should be calibrated in air so that 20.9 % volume oxygen is displayed in clean air environments. And usually, the detector has an alarm system when oxygen is below 19.5% and 18%. Inspectors in an area where an oxygen depletion risk exists should evacuate immediately once device emit a low oxygen alarm. When oxygen density is low inside the members, windows should be kept opened for more than one day and measured again. When oxygen density is still low, another solution like installation of ventilation by fan should be considered.

## **APPENDIX E**

# **BRIDGE ROUTINE INSPECTION FORM AND SKETCH DRAWINGS**



Department of Public Works and Highways  
**BRIDGE MANAGEMENT SYSTEM**

**BRIDGE ROUTINE INSPECTION FORM (TYPE 1)**

*MAGAPIT BRIDGE*

Deptment of Public Works and Highways  
**BRIDGE MANAGEMENT SYSTEM**  
**FOR**  
**MAGAPIT BRIDGE (SUSPENSION BRIDGE)**  
**BRIDGE ROUTINE INSPECTION FORM (TYPE 1)**

| <b>LOCATION</b>        |                | <b>BRIDGE DESCRIPTION</b> |  |
|------------------------|----------------|---------------------------|--|
| BRIDGE ID              |                | Type of Bridge            |  |
| Bridge Name            | Magapit Bridge | Superstructure            |  |
| Road Name              |                | Substructure              |  |
| Road ID                |                | Foundation                |  |
| Section ID             |                | Total Number of Span      |  |
| Location               |                | Total Number of Abutment  |  |
| Region                 |                | Total Number of Pier      |  |
| Province               |                | <b>ACCOMPLISHED BY:</b>   |  |
| Congressional District |                |                           |  |
| Engineering District   |                |                           |  |
| Municipality           |                | <b>SUBMITTED BY:</b>      |  |
| Barangay               |                |                           |  |
| River Name             |                |                           |  |

*Insert Name, Position, Signature and Date of Signing  
 Initial all other pages*

**Summary of Routine Inspection Results**

Bridge ID.

Bridge Name

Main Bridge (Suspension Bridge)

| Bridge members          | Feb 2015       |                 | May 2015       |                 | Aug 2015       |                 | Nov 2015       |                 |
|-------------------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
|                         | Routine Rating | Required Action |
| Cable and Rope          |                |                 |                |                 |                |                 |                |                 |
| Tower                   |                |                 |                |                 |                |                 |                |                 |
| Truss Member            |                |                 |                |                 |                |                 |                |                 |
| Deck Slab               |                |                 |                |                 |                |                 |                |                 |
| Asphalt Wearing Surface |                |                 |                |                 |                |                 |                |                 |
| Expansion Joint         |                |                 |                |                 |                |                 |                |                 |
| Railing                 |                |                 |                |                 |                |                 |                |                 |
| Drainage System         |                |                 |                |                 |                |                 |                |                 |
| Signage                 |                |                 |                |                 |                |                 |                |                 |
| Pier                    |                |                 |                |                 |                |                 |                |                 |

Approach Viaduct

| Bridge members          | Feb 2015       |                 | May 2015       |                 | Aug 2015       |                 | Nov 2015       |                 |
|-------------------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
|                         | Routine Rating | Required Action |
| Truss Member            |                |                 |                |                 |                |                 |                |                 |
| Concrete Girder         |                |                 |                |                 |                |                 |                |                 |
| Deck Slab               |                |                 |                |                 |                |                 |                |                 |
| Asphalt Wearing Surface |                |                 |                |                 |                |                 |                |                 |
| Expansion Joint         |                |                 |                |                 |                |                 |                |                 |
| Railing                 |                |                 |                |                 |                |                 |                |                 |
| Drainage System         |                |                 |                |                 |                |                 |                |                 |
| Signage                 |                |                 |                |                 |                |                 |                |                 |
| Abutment                |                |                 |                |                 |                |                 |                |                 |
| Pier                    |                |                 |                |                 |                |                 |                |                 |

Note: The worst condition rating should be selected and its corresponding action for each bridge member as shown in the Inspection Results in pages from 5 of 13 to 13 of 13.

**REPAIR RECORD**

Bridge ID.

Bridge Name

**ROUTINE MAINTENANCE**

| DATE                                     | ROUTINE MAINTENANCE |       |      | IMPLEMENTATION |            |          |        | INSPECTOR COMMENTS |
|--|---------------------|-------|------|----------------|------------|----------|--------|--------------------|
|  | TYPE                | SCOPE | COST | START          | COMPLETION | DURATION | STATUS |                    |
| Low Chainage Approach Viaduct S1         |                     |       |      |                |            |          |        |                    |
|  |                     |       |      |                |            |          |        |                    |
|  |                     |       |      |                |            |          |        |                    |
|  |                     |       |      |                |            |          |        |                    |
|  |                     |       |      |                |            |          |        |                    |
| Main Bridge Suspension S2                |                     |       |      |                |            |          |        |                    |
|  |                     |       |      |                |            |          |        |                    |
|  |                     |       |      |                |            |          |        |                    |
|  |                     |       |      |                |            |          |        |                    |
|  |                     |       |      |                |            |          |        |                    |
| High Chainage Approach Viaduct S3 and S4 |                     |       |      |                |            |          |        |                    |
|  |                     |       |      |                |            |          |        |                    |
|  |                     |       |      |                |            |          |        |                    |
|  |                     |       |      |                |            |          |        |                    |
|  |                     |       |      |                |            |          |        |                    |

**LEGEND:**

|                                  |                                |  |                                       |                                       |
|----------------------------------|--------------------------------|--|---------------------------------------|---------------------------------------|
| <b>A</b> - Repair damage         | <b>B</b> - Protective measures | <b>C</b> - Strengthen                    | <b>D</b> - Replace                    | <b>E</b> - None                       |
| <b>A</b> - Sweeping and cleaning | <b>B</b> - Repairs to Pavement | <b>C</b> - Repairs to concrete component | <b>D</b> - Repairs to steel component | <b>E</b> - Painting bridge components |
|                                  |                                |  |                                       | <b>F</b> - Replace/install bolts      |
|                                  |                                |  |                                       | <b>G</b> - Others (Specify)           |

**Inspection Results**

Bridge ID.

Bridge Name

**From Bridge Roadway Level S1 (A1-P1)**

| Bridge members          | Defects                       | Routine Rating    |        |                   |        | Action  |       |      |
|-------------------------|-------------------------------|-------------------|--------|-------------------|--------|---|-------|------|
|                         |                               | Right             |        | Left              |        | Action  | Right | Left |
|                         |                               | Number of defects | Rating | Number of defects | Rating |   |       |      |
| Asphalt Wearing Surface | Potholes                      |                   |        |                   |        | Patching and Cleaning   |       |      |
|                         | Shoving                       |                   |        |                   |        |   |       |      |
|                         | Rutting                       |                   |        |                   |        |   |       |      |
|                         | Cracking                      |                   |        |                   |        |   |       |      |
|                         | Raveling                      |                   |        |                   |        |   |       |      |
|                         | Others                        |                   |        |                   |        |   |       |      |
| Expansion Joint         | Accumulation of Dirt          |                   |        |                   |        | Sweeping and Cleaning of Expansion Joint at the Bridge Deck             |       |      |
|                         | Abnormal space/noise, Rupture |                   |        |                   |        |   |       |      |
| Sidewalk                | Unevenness                    |                   |        |                   |        | Patching and Cleaning   |       |      |
|                         | Cracking                      |                   |        |                   |        |   |       |      |
|                         | Others                        |                   |        |                   |        |   |       |      |
| Railing                 | Impact/Accident Damage        |                   |        |                   |        | Repairs to steel component<br>Cleaning of steel component<br>Repainting |       |      |
|                         | Missing Railings              |                   |        |                   |        |   |       |      |
|                         | Corrosion                     |                   |        |                   |        |   |       |      |
|                         | Paint Peel off                |                   |        |                   |        |   |       |      |
|                         | Others                        |                   |        |                   |        |   |       |      |
| Drainage System         | Accumulation of Dirt          |                   |        |                   |        | Sweeping and Cleaning of Drainage                                       |       |      |
| Signage                 | Improper Signage              |                   |        |                   |        | Cleaning, correction , replacement/transfer of signages.                |       |      |
|                         | Incorrect Location Visibility |                   |        |                   |        |   |       |      |
|                         | Not Good Condition            |                   |        |                   |        |   |       |      |
|                         | Unclear Lettering             |                   |        |                   |        |   |       |      |

| Routine Maintenance Rating |  |
|----------------------------|--|
| Routine rating             | Conditon   |
| Good                       | No damage  |
| Fair                       | Minor damage(s) not affecting the stability of the structure                                       |
| Poor                       | Deteriorating damage(s) which should be repaired, as a preventive action                           |
| Bad                        | Severe damage(s) affecting the stability of the structure or has possibility to harm a third party |

| Required Maintenance Actions        |   |
|-------------------------------------|---|
| Routine Maintenance Action Required | Conditon  |
| M: Monitoring                       | No repair work and keep monitoring (Damage not progressing or very slow)        |
| RM: Routine Maintenance             | Should be maintained by Routine Maintenance                                     |
| MM: Major Maintenance               | Should be repaired by Major Maintenance   |
| EA: Emergency Action                | Need to take actions immediately to avoid bridge collapse or harm a third party |

Note: The Defect item defined as "Others" refers to the presence of trash, soil debris, graffiti, posters and lush vegetation.

Note: EA should be written by Red ink

**From Ground Level under the bridge S1 (A1-P1)**

| Bridge members | Defects        | Routine Rating    |        |                   |        | Action                        |       |      |
|----------------|----------------|-------------------|--------|-------------------|--------|-------------------------------|-------|------|
|                |                | Right             |        | Left              |        | Action                        | Right | Left |
|                |                | Number of defects | Rating | Number of defects | Rating |                               |       |      |
| Abutment       | Rebar Exposure |                   |        |                   |        | Repairs to concrete component |       |      |
|                | Water Leakage  |                   |        |                   |        |                               |       |      |
|                | Settlement     |                   |        |                   |        |                               |       |      |
| Pier           | Rebar Exposure |                   |        |                   |        | Repairs to concrete component |       |      |
|                | Water Leakage  |                   |        |                   |        |                               |       |      |
|                | Settlement     |                   |        |                   |        |                               |       |      |
| Deck Slab      | Rebar Exposure |                   |        |                   |        | Repairs to concrete component |       |      |
|                | Water Leakage  |                   |        |                   |        |                               |       |      |
| Girder         | Rebar Exposure |                   |        |                   |        | Repairs to concrete component |       |      |
|                | Water Leakage  |                   |        |                   |        |                               |       |      |

Note: Attach sketch of the defects.

| Remarks |
|---------|
|         |

**Inspection Results**

Bridge ID.

Bridge Name

**From Bridge Roadway Level S2 (P2)**

| Bridge members          | Defects                       | Routine Rating    |        |                   |        | Action  |       |      |
|-------------------------|-------------------------------|-------------------|--------|-------------------|--------|---|-------|------|
|                         |                               | Right             |        | Left              |        | Action  | Right | Left |
|                         |                               | Number of defects | Rating | Number of defects | Rating |   |       |      |
| Truss Member            | Corrosion                     |                   |        |                   |        | Painting and set new bolt   |       |      |
|                         | Loose connection/Bolt loss    |                   |        |                   |        |   |       |      |
| Asphalt Wearing Surface | Potholes                      |                   |        |                   |        | Patching and Cleaning   |       |      |
|                         | Shoving                       |                   |        |                   |        |   |       |      |
|                         | Rutting                       |                   |        |                   |        |   |       |      |
|                         | Cracking                      |                   |        |                   |        |   |       |      |
|                         | Raveling                      |                   |        |                   |        |   |       |      |
|                         | Others                        |                   |        |                   |        |   |       |      |
| Expansion Joint         | Accumulation of Dirt          |                   |        |                   |        | Sweeping and Cleaning of Expansion Joint at the Bridge Deck             |       |      |
|                         | Abnormal space/noise, Rupture |                   |        |                   |        |   |       |      |
| Sidewalk                | Unevenness                    |                   |        |                   |        | Patching and Cleaning   |       |      |
|                         | Cracking                      |                   |        |                   |        |   |       |      |
|                         | Others                        |                   |        |                   |        |   |       |      |
| Railing                 | Impact/Accident Damage        |                   |        |                   |        | Repairs to steel component<br>Cleaning of steel component<br>Repainting |       |      |
|                         | Missing Railings              |                   |        |                   |        |   |       |      |
|                         | Corrosion                     |                   |        |                   |        |   |       |      |
|                         | Paint Peel off                |                   |        |                   |        |   |       |      |
|                         | Others                        |                   |        |                   |        |   |       |      |
| Drainage System         | Accumulation of Dirt          |                   |        |                   |        | Sweeping and Cleaning of Drainage                                       |       |      |
| Signage                 | Improper Signage              |                   |        |                   |        | Cleaning, correction, replacement/transfer of signages.                 |       |      |
|                         | Incorrect Location Visibility |                   |        |                   |        |   |       |      |
|                         | Not Good Condition            |                   |        |                   |        |   |       |      |
|                         | Unclear Lettering             |                   |        |                   |        |   |       |      |

| Routine Maintenance Rating |  |
|----------------------------|--|
| Routine rating             | Condition  |
| Good                       | No damage  |
| Fair                       | Minor damage(s) not affecting the stability of the structure                                       |
| Poor                       | Deteriorating damage(s) which should be repaired, as a preventive action                           |
| Bad                        | Severe damage(s) affecting the stability of the structure or has possibility harm to a third party |

| Required Maintenance Actions        |   |
|-------------------------------------|---|
| Routine Maintenance Action Required | Condition   |
| M: Monitoring                       | No repair work and keep monitoring (Damage not progressing or very slow)        |
| RM: Routine Maintenance             | Should be maintained by Routine Maintenance                                     |
| MM: Major Maintenance               | Should be repaired by Major Maintenance   |
| EA: Emergency Action                | Need to take actions immediately to avoid bridge collapse or harm a third party |

Note: EA should be written by Red ink

Note: The Defect item defined as "Others" refers to the presence of trash, soil debris, graffiti, posters and lush vegetation.

**From Ground Level under the bridge S2 (P2)**

| Bridge members | Defects                    | Routine Rating    |        |                   |        | Action                        |       |      |
|----------------|----------------------------|-------------------|--------|-------------------|--------|-------------------------------|-------|------|
|                |                            | Right             |        | Left              |        | Action                        | Right | Left |
|                |                            | Number of defects | Rating | Number of defects | Rating |                               |       |      |
| Pier           | Rebar Exposure             |                   |        |                   |        | Repairs to concrete component |       |      |
|                | Water Leakage              |                   |        |                   |        |                               |       |      |
|                | Settlement                 |                   |        |                   |        |                               |       |      |
| Deck Slab      | Rebar Exposure             |                   |        |                   |        | Repairs to concrete component |       |      |
|                | Water Leakage              |                   |        |                   |        |                               |       |      |
| Truss Member   | Corrosion                  |                   |        |                   |        | Repairs to Steel component    |       |      |
|                | Loose connection/Bolt loss |                   |        |                   |        |                               |       |      |
|                | Water Leakage              |                   |        |                   |        |                               |       |      |

Note: Attach sketch of the defects.

Bridge ID.

Inspection Results  
 Bridge Name

**From Bridge Roadway Level S3 (P3)**

| Bridge members             | Defects                       | Routine Rating    |        |                   |        | Action  |       |      | Routine Maintenance Rating            |  |
|----------------------------|-------------------------------|-------------------|--------|-------------------|--------|---|-------|------|---------------------------------------|--|
|                            |                               | Right             |        | Left              |        | Action  | Right | Left | Routine rating                        | Conditon   |
|                            |                               | Number of defects | Rating | Number of defects | Rating |   |       |      |                                       |  |
| Cable,Band and Hanger rope | Abnormal Condition            |                   |        |                   |        | To proceed Engineering Inspection                                       |       |      | Good                                  | No damage  |
|                            | Vegetation                    |                   |        |                   |        |   |       |      |                                       |  |
|                            | Water Leakage                 |                   |        |                   |        |   |       |      |                                       |  |
| Tower                      | Corrosion                     |                   |        |                   |        | Repairs to steel component and To proceed Engineering Inspection        |       |      | Fair                                  | Minor damage(s) not affecting the stability of the structure                                       |
|                            | Water Leakage                 |                   |        |                   |        |   |       |      |                                       |  |
| Asphalt Wearing Surface    | Potholes                      |                   |        |                   |        | Patching and Cleaning   |       |      | Poor                                  | Deteriorating damage(s) which should be repaired, as a preventive action                           |
|                            | Shoving                       |                   |        |                   |        |   |       |      |                                       |  |
|                            | Rutting                       |                   |        |                   |        |   |       |      |                                       |  |
|                            | Cracking                      |                   |        |                   |        |   |       |      | Bad                                   | Severe damage(s) affecting the stability of the structure or has possibility to harm a third party |
|                            | Raveling                      |                   |        |                   |        |   |       |      |                                       |  |
|                            | Others                        |                   |        |                   |        |   |       |      |                                       |  |
| Expansion Joint            | Accumulation of Dirt          |                   |        |                   |        | Sweeping and Cleaning of Expansion Joint at the Bridge Deck             |       |      | Routine Maitenance Action Required    | Conditon   |
|                            | Abnormal space/noise, Rupture |                   |        |                   |        |   |       |      |                                       |  |
| Sidewalk                   | Unevenness                    |                   |        |                   |        | Patching and Cleaning   |       |      | M: Monitoring                         | No repair work and keep monitoring (Damage not progressing or very slow)                           |
|                            | Cracking                      |                   |        |                   |        |   |       |      |                                       |  |
|                            | Others                        |                   |        |                   |        |   |       |      |                                       |  |
| Railing                    | Impact/Accident Damage        |                   |        |                   |        | Repairs to steel component<br>Cleaning of steel component<br>Repainting |       |      | RM: Routine Maintenance               | Should be maintained by Routine Maintenance  |
|                            | Missing Railings              |                   |        |                   |        |   |       |      |                                       |  |
|                            | Corrosion                     |                   |        |                   |        |   |       |      | MM: Major Maintenance                 | Should be repaired by Major Maintenance  |
|                            | Paint Peel off                |                   |        |                   |        |   |       |      |                                       |  |
|                            | Others                        |                   |        |                   |        |   |       |      | EA: Emergency Action                  | Need to take actions immediately to avoid bridge collapse or harm a third party                    |
| Drainage System            | Accumulation of Dirt          |                   |        |                   |        | Sweeping and Cleaning of Bridge Deck                                    |       |      | Note: EA should be written by Red ink |  |
| Signage                    | Improper Signage              |                   |        |                   |        | Cleaning, correction , replacement/transfer of signages.                |       |      | Remarks                               |  |
|                            | Incorrect Location Visibility |                   |        |                   |        |   |       |      |                                       |  |
|                            | Not Good Condition            |                   |        |                   |        |   |       |      |                                       |  |
|                            | Unclear Lettering             |                   |        |                   |        |   |       |      |                                       |  |

Note: The Defect item defined as "Others" refers to the presence of trash, soil debris, graffiti, posters and lush vegetation.

**From Ground Level under the bridge S3 (P3)**

| Bridge members | Defects                   | Routine Rating    |        |                   |        | Action                        |       |      |
|----------------|---------------------------|-------------------|--------|-------------------|--------|-------------------------------|-------|------|
|                |                           | Right             |        | Left              |        | Action                        | Right | Left |
|                |                           | Number of defects | Rating | Number of defects | Rating |                               |       |      |
| Pier           | Rebar Exposure            |                   |        |                   |        | Repairs to concrete component |       |      |
|                | Water Leakage             |                   |        |                   |        |                               |       |      |
|                | Settlement                |                   |        |                   |        |                               |       |      |
| Deck Slab      | Rebar Exposure            |                   |        |                   |        | Repairs to concrete component |       |      |
|                | Water Leakage             |                   |        |                   |        |                               |       |      |
| Truss Member   | Corrosion                 |                   |        |                   |        | Repairs to Steel component    |       |      |
|                | Loose conection/Bolt loss |                   |        |                   |        |                               |       |      |
|                | Water Leakage             |                   |        |                   |        |                               |       |      |

Note: Attach sketch of the defects.

**Inspection Results**

Bridge ID.

Bridge Name

**From Bridge Roadway Level S4 (A2)**

| Bridge members          | Defects                       | Routine Rating    |        |                   |        | Action  |       |      |
|-------------------------|-------------------------------|-------------------|--------|-------------------|--------|---|-------|------|
|                         |                               | Right             |        | Left              |        | Action  | Right | Left |
|                         |                               | Number of defects | Rating | Number of defects | Rating |   |       |      |
| Truss Member            | Corrosion                     |                   |        |                   |        | Painting and set new bolt   |       |      |
|                         | Loose connection/Bolt loss    |                   |        |                   |        |   |       |      |
| Asphalt Wearing Surface | Potholes                      |                   |        |                   |        | Patching and Cleaning   |       |      |
|                         | Shoving                       |                   |        |                   |        |   |       |      |
|                         | Rutting                       |                   |        |                   |        |   |       |      |
|                         | Cracking                      |                   |        |                   |        |   |       |      |
|                         | Raveling                      |                   |        |                   |        |   |       |      |
|                         | Others                        |                   |        |                   |        |   |       |      |
| Expansion Joint         | Accumulation of Dirt          |                   |        |                   |        | Sweeping and Cleaning of Expansion Joint at the Bridge Deck             |       |      |
|                         | Abnormal space/noise, Rupture |                   |        |                   |        |   |       |      |
| Sidewalk                | Unevenness                    |                   |        |                   |        | Patching and Cleaning   |       |      |
|                         | Cracking                      |                   |        |                   |        |   |       |      |
|                         | Others                        |                   |        |                   |        |   |       |      |
| Railing                 | Impact/Accident Damage        |                   |        |                   |        | Repairs to steel component<br>Cleaning of steel component<br>Repainting |       |      |
|                         | Missing Railings              |                   |        |                   |        |   |       |      |
|                         | Corrosion                     |                   |        |                   |        |   |       |      |
|                         | Paint Peel off                |                   |        |                   |        |   |       |      |
|                         | Others                        |                   |        |                   |        |   |       |      |
| Drainage System         | Accumulation of Dirt          |                   |        |                   |        | Sweeping and Cleaning of Drainage                                       |       |      |
| Signage                 | Improper Signage              |                   |        |                   |        | Cleaning, correction , replacement/transfer of signages.                |       |      |
|                         | Incorrect Location Visibility |                   |        |                   |        |   |       |      |
|                         | Not Good Condition            |                   |        |                   |        |   |       |      |
|                         | Unclear Lettering             |                   |        |                   |        |   |       |      |

| Routine Maintenance Rating |  |
|----------------------------|--|
| Routine rating             | Conditon   |
| Good                       | No damage  |
| Fair                       | Minor damage(s) not affecting the stability of the structure                                       |
| Poor                       | Deteriorating damage(s) which should be repaired, as a preventive action                           |
| Bad                        | Severe damage(s) affecting the stability of the structure or has possibility to harm a third party |

| Required Maintenance Actions        |   |
|-------------------------------------|---|
| Routine Maintenance Action Required | Conditon  |
| M: Monitoring                       | No repair work and keep monitoring (Damage not progressing or very slow)        |
| RM: Routine Maintenance             | Should be maintained by Routine Maintenance                                     |
| MM: Major Maintenance               | Should be repaired by Major Maintenance   |
| EA: Emergency Action                | Need to take actions immediately to avoid bridge collapse or harm a third party |

Note: EA should be written by Red ink

Note: The Defect item defined as "Others" refers to the presence of trash, soil debris, graffiti, posters and lush vegetation.

**From Ground Level under the bridge S4 (A2)**

| Bridge members | Defects                    | Routine Rating    |        |                   |        | Action                        |       |      |
|----------------|----------------------------|-------------------|--------|-------------------|--------|-------------------------------|-------|------|
|                |                            | Right             |        | Left              |        | Action                        | Right | Left |
|                |                            | Number of defects | Rating | Number of defects | Rating |                               |       |      |
| Abutment       | Rebar Exposure             |                   |        |                   |        | Repairs to concrete component |       |      |
|                | Water Leakage              |                   |        |                   |        |                               |       |      |
|                | Settlement                 |                   |        |                   |        |                               |       |      |
| Deck Slab      | Rebar Exposure             |                   |        |                   |        | Repairs to concrete component |       |      |
|                | Water Leakage              |                   |        |                   |        |                               |       |      |
| Truss Member   | Corrosion                  |                   |        |                   |        | Repairs to Steel component    |       |      |
|                | Loose connection/Bolt loss |                   |        |                   |        |                               |       |      |
|                | Water Leakage              |                   |        |                   |        |                               |       |      |

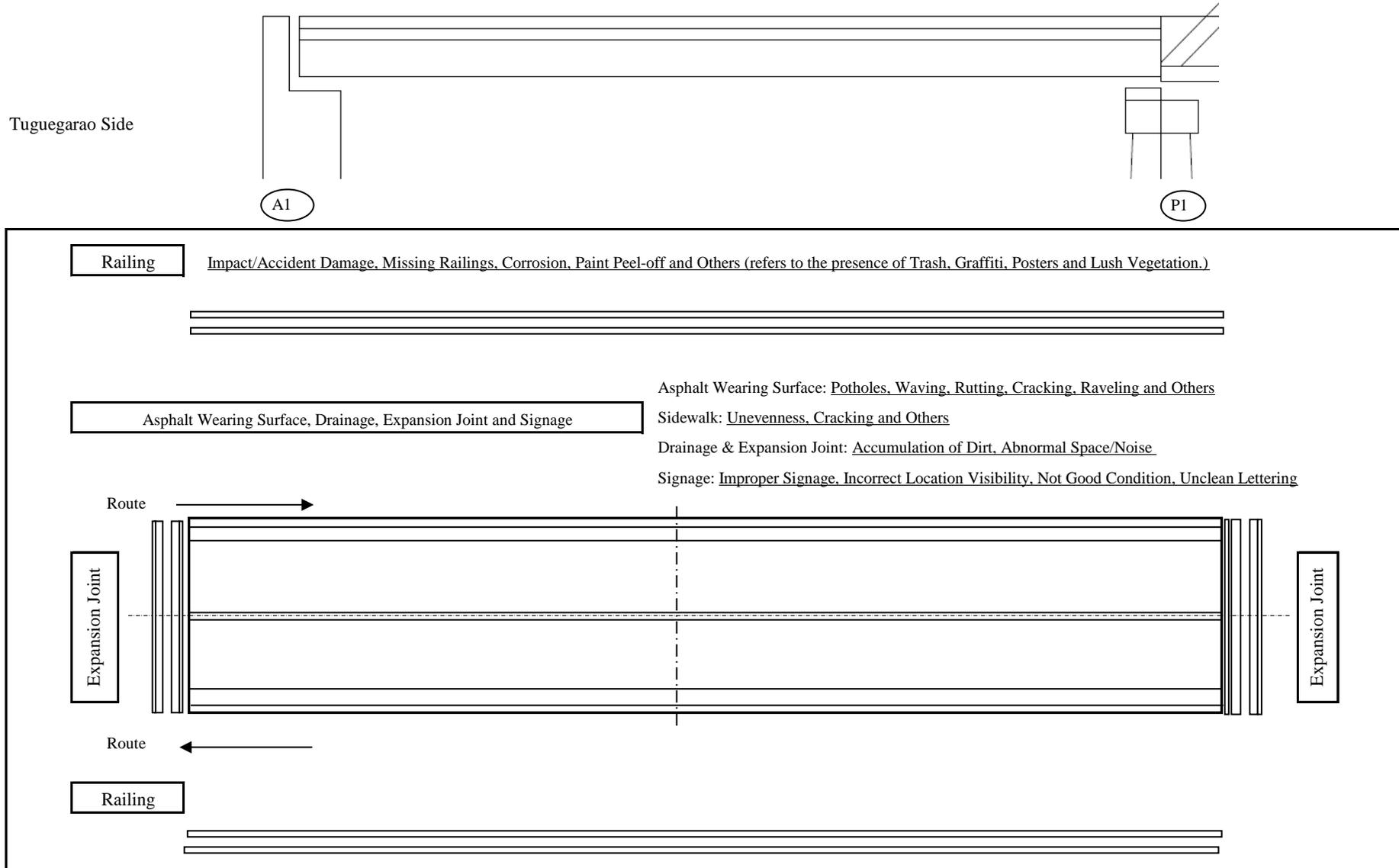
Note: Attach sketch of the defects.

# Sketch Drawings for Routine Inspection

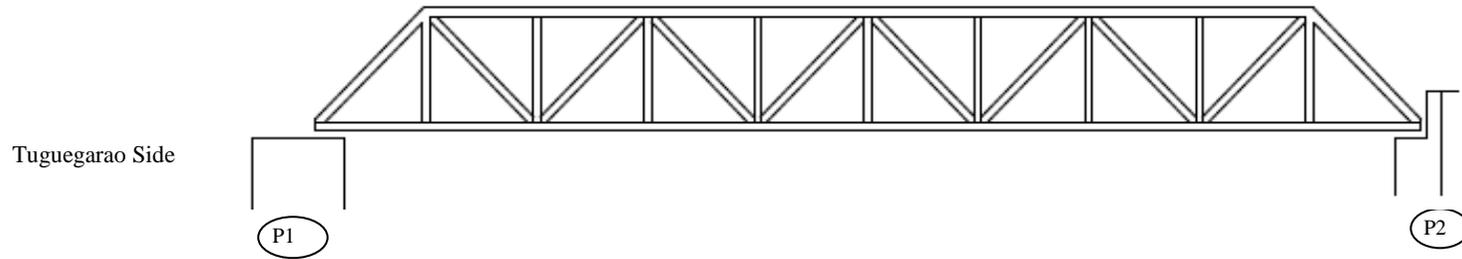
NOTE: Print in A3 size for usage at site



## Sketch of Bridge Routine Inspection Magapit Bridge



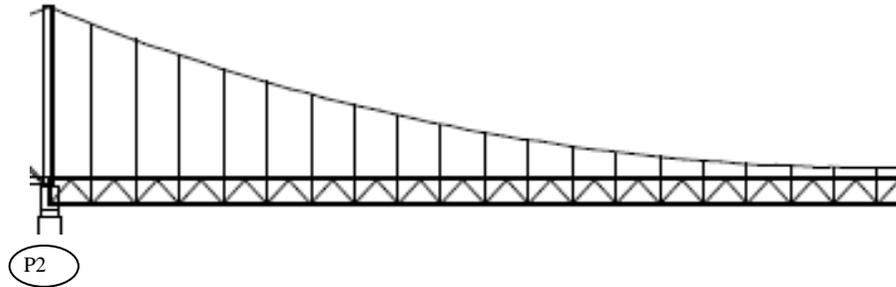
## Sketch of Bridge Routine Inspection Magapit Bridge



|   |   |
|---|---|
| <b>Railing</b>  | Impact/Accident Damage, Missing Railings, Corrosion, Paint Peel-off and Others (refers to the presence of Trash, Graffiti, Posters and Lush Vegetation.)  |
|   |   |
| <b>Asphalt Wearing Surface, Drainage, Expansion Joint and Signage</b> | Asphalt Wearing Surface: <u>Potholes, Waving, Rutting, Cracking, Raveling and Others</u><br>Sidewalk: <u>Unevenness, Cracking and Others</u><br>Drainage & Expansion Joint: <u>Accumulation of Dirt, Abnormal Space/Noise</u><br>Signage: <u>Improper Signage, Incorrect Location Visibility, Not Good Condition, Unclean Lettering</u> |
|   |   |
| <b>Railing</b>  |   |

## Sketch of Bridge Routine Inspection Magapit Bridge

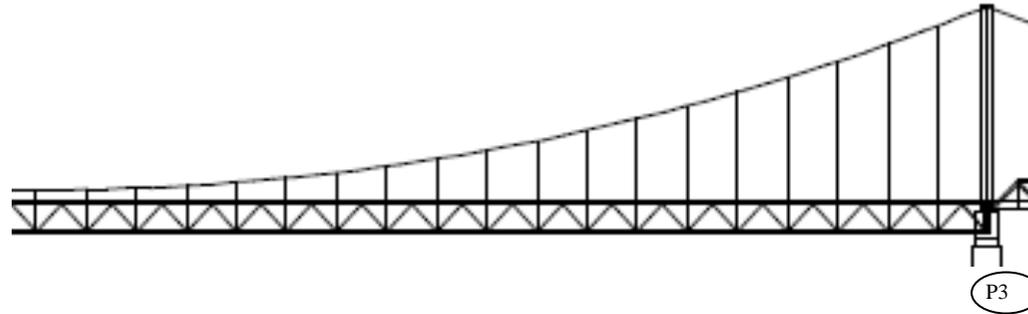
Tuguegarao side



|   |  |
|---|--|
| <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Railing</div>   | <p><u>Impact/Accident Damage, Missing Railings, Corrosion, Paint Peel-off and Others (refers to the presence of Trash, Graffiti, Posters and Lush Vegetation.)</u></p>   |
|   |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Asphalt Wearing Surface, Drainage, Expansion Joint and Signage</div>  | <p>Asphalt Wearing Surface: <u>Potholes, Waving, Rutting, Cracking, Raveling and Others</u></p> <p>Sidewalk: <u>Unevenness, Cracking and Others</u></p> <p>Drainage &amp; Expansion Joint: <u>Accumulation of Dirt, Abnormal Space/Noise</u></p> <p>Signage: <u>Improper Signage, Incorrect Location Visibility, Not Good Condition, Unclean Lettering</u></p> |
| <p>Route →</p> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; writing-mode: vertical-rl; transform: rotate(180deg); margin-right: 5px;">Expansion Joint</div> </div> <p>Route ←</p> |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Railing</div>   |  |

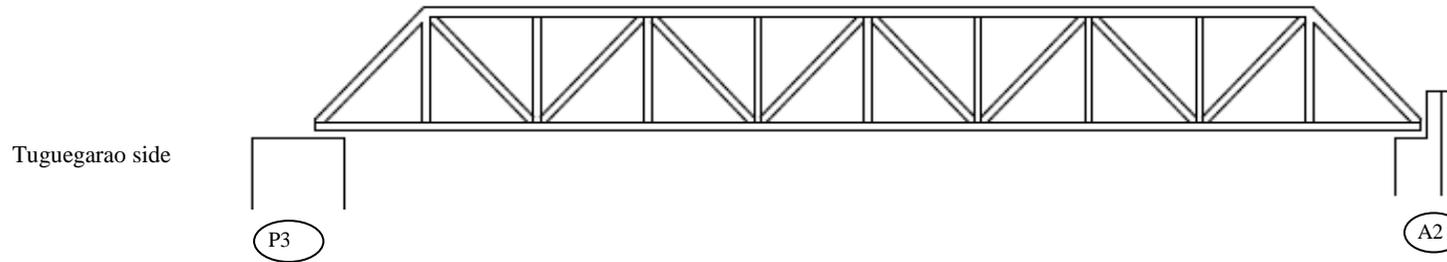
## Sketch of Bridge Routine Inspection Magapit Bridge

Tuguegarao side



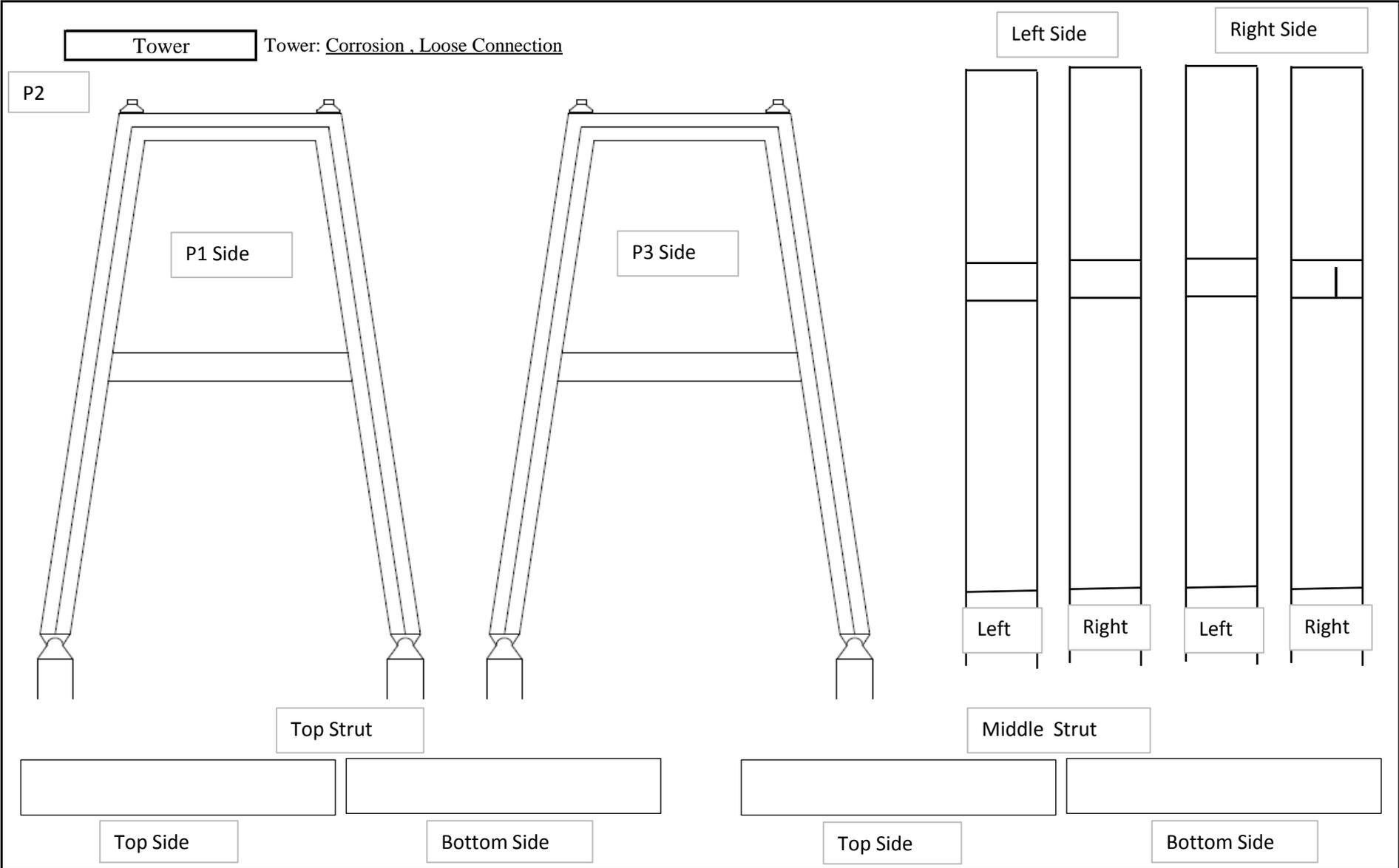
|  |  |
|--|--|
| <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Railing</div>  | <p><u>Impact/Accident Damage, Missing Railings, Corrosion, Paint Peel-off and Others (refers to the presence of Trash, Graffiti, Posters and Lush Vegetation.)</u></p>   |
|  |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Asphalt Wearing Surface, Drainage, Expansion Joint and Signage</div> | <p>Asphalt Wearing Surface: <u>Potholes, Waving, Rutting, Cracking, Raveling and Others</u></p> <p>Sidewalk: <u>Unevenness, Cracking and Others</u></p> <p>Drainage &amp; Expansion Joint: <u>Accumulation of Dirt, Abnormal Space/Noise</u></p> <p>Signage: <u>Improper Signage, Incorrect Location Visibility, Not Good Condition, Unclean Lettering</u></p> |
| <p>Route →</p>   |  |
| <p>← Route</p>   | <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Railing</div>  |
|  |  |

## Sketch of Bridge Routine Inspection Magapit Bridge

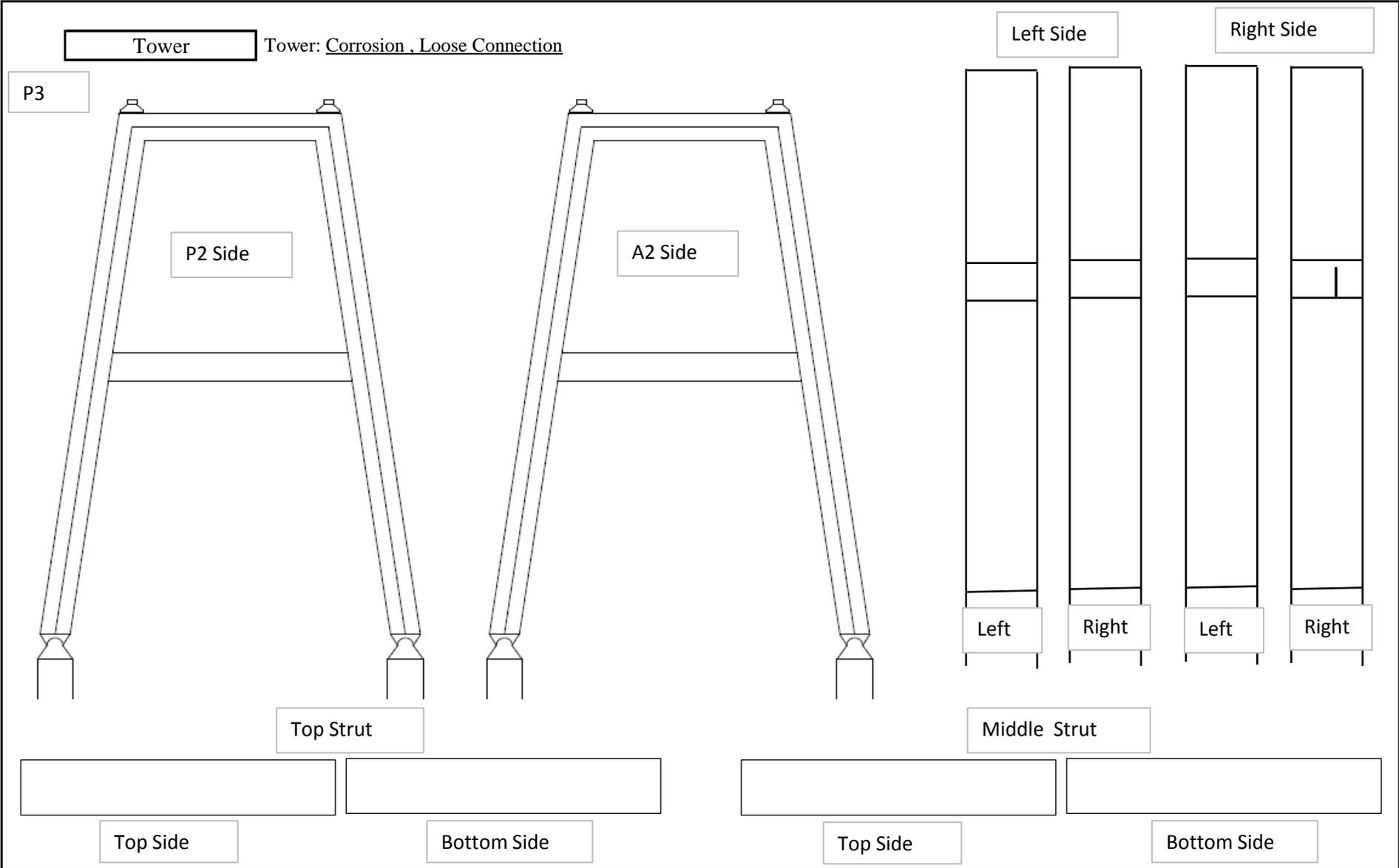


|   |   |
|---|---|
| <b>Railing</b>  | Impact/Accident Damage, Missing Railings, Corrosion, Paint Peel-off and Others (refers to the presence of Trash, Graffiti, Posters and Lush Vegetation.)  |
|   |   |
| <b>Asphalt Wearing Surface, Drainage, Expansion Joint and Signage</b> | Asphalt Wearing Surface: <u>Potholes, Waving, Rutting, Cracking, Raveling and Others</u><br>Sidewalk: <u>Unevenness, Cracking and Others</u><br>Drainage & Expansion Joint: <u>Accumulation of Dirt, Abnormal Space/Noise</u><br>Signage: <u>Improper Signage, Incorrect Location Visibility, Not Good Condition, Unclean Lettering</u> |
| Route →<br>← Route  | <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Expansion Joint</div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Expansion Joint</div>   |
| <b>Railing</b>  |   |

# Sketch of Bridge Routine Inspection Magapit Bridge

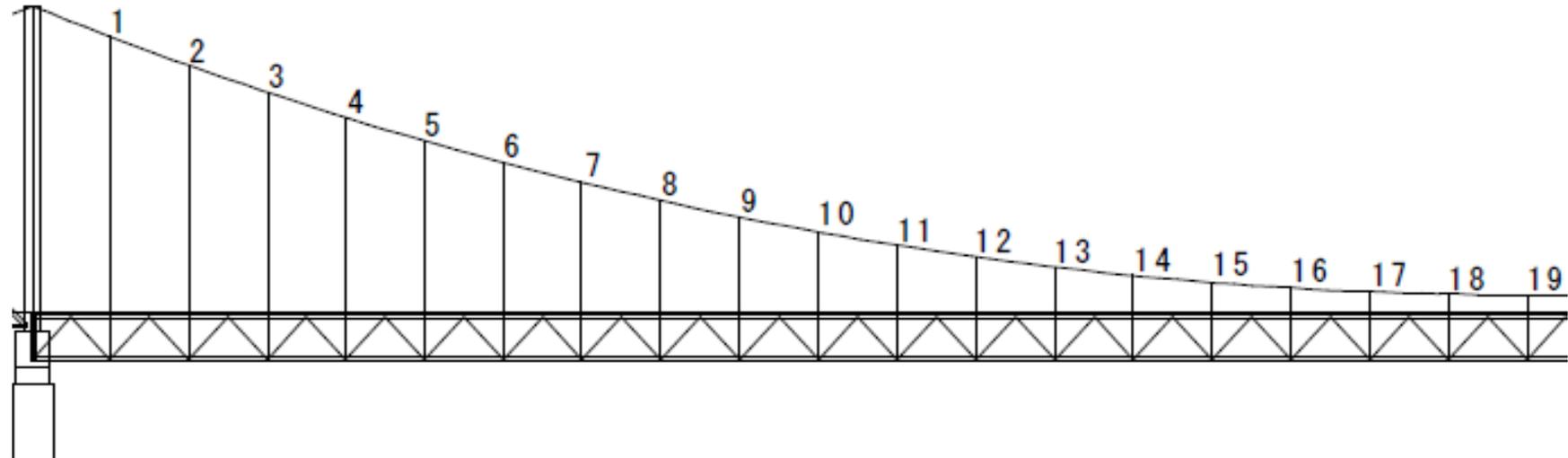


# Sketch of Bridge Routine Inspection Magapit Bridge



## Sketch of Bridge Routine Inspection Magapit Bridge

|             |   |
|-------------|---|
| Hanger rope | Hanger Rope and Main Cable: <u>Vibration, Alignment/Deformation, Water Leakage, Corrosion, Paint Peel-off</u> |
| Main cable  |   |
| Cable band  | Cable Band: <u>Abnormal Condition, Corrosion, Water Leakage, Vegetation, Paint Peel-off</u>                   |
| Left side   |   |

**Sketch of Bridge Routine Inspection  
Magapit Bridge**

Hanger rope

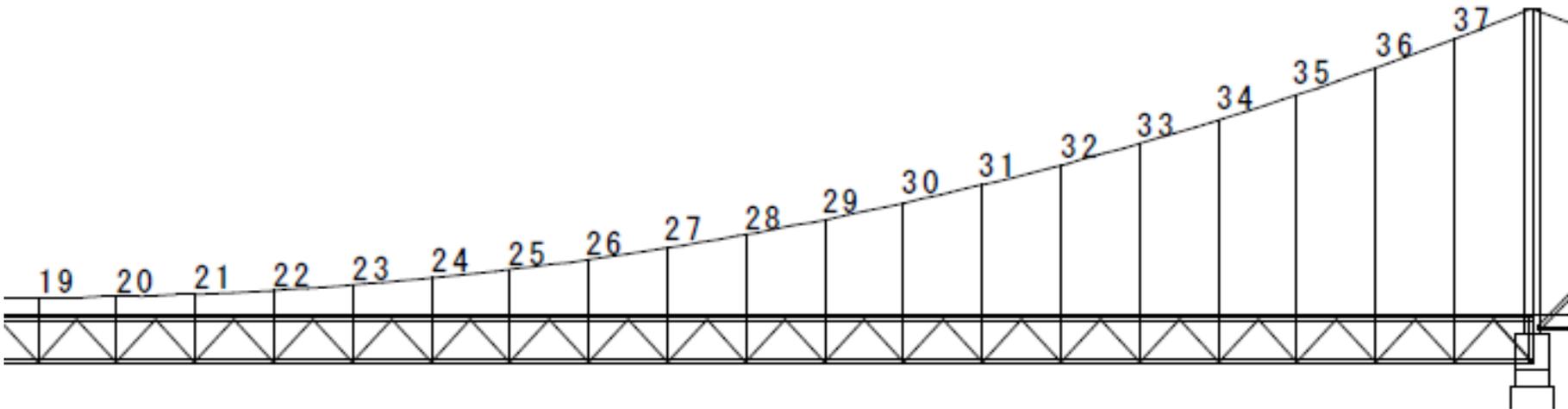
Hanger Rope and Main Cable: Vibration, Alignment/Deformation, Water Leakage, Corrosion, Paint Peel-off

Main cable

Cable band

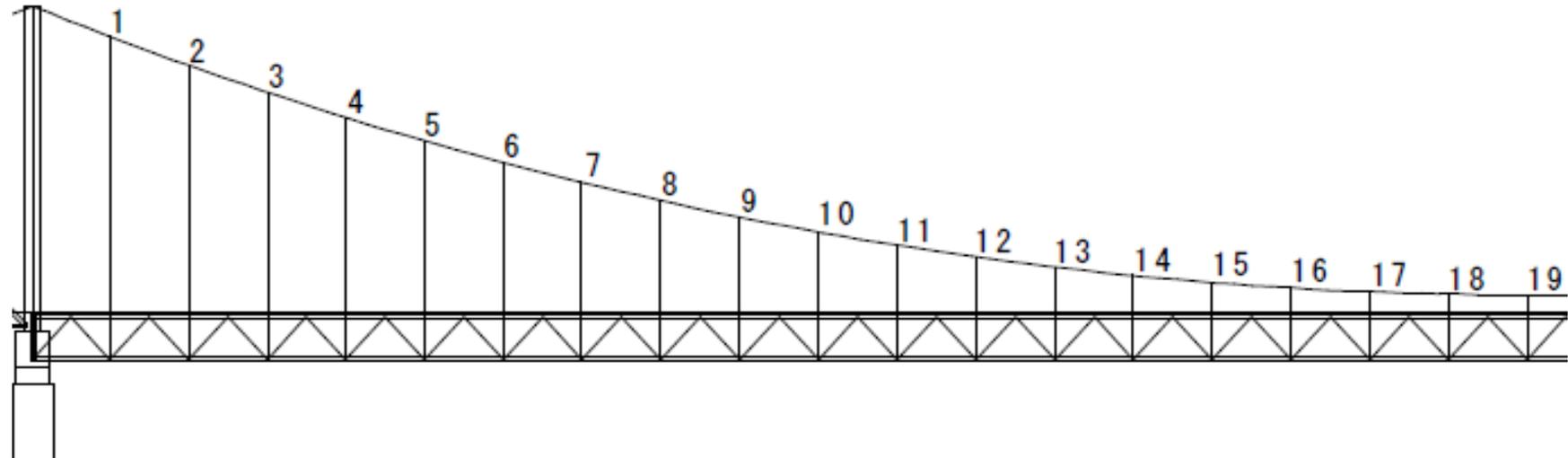
Cable Band: Abnormal Condition, Corrosion, Water Leakage, Vegetation, Paint Peel-off

Left Side

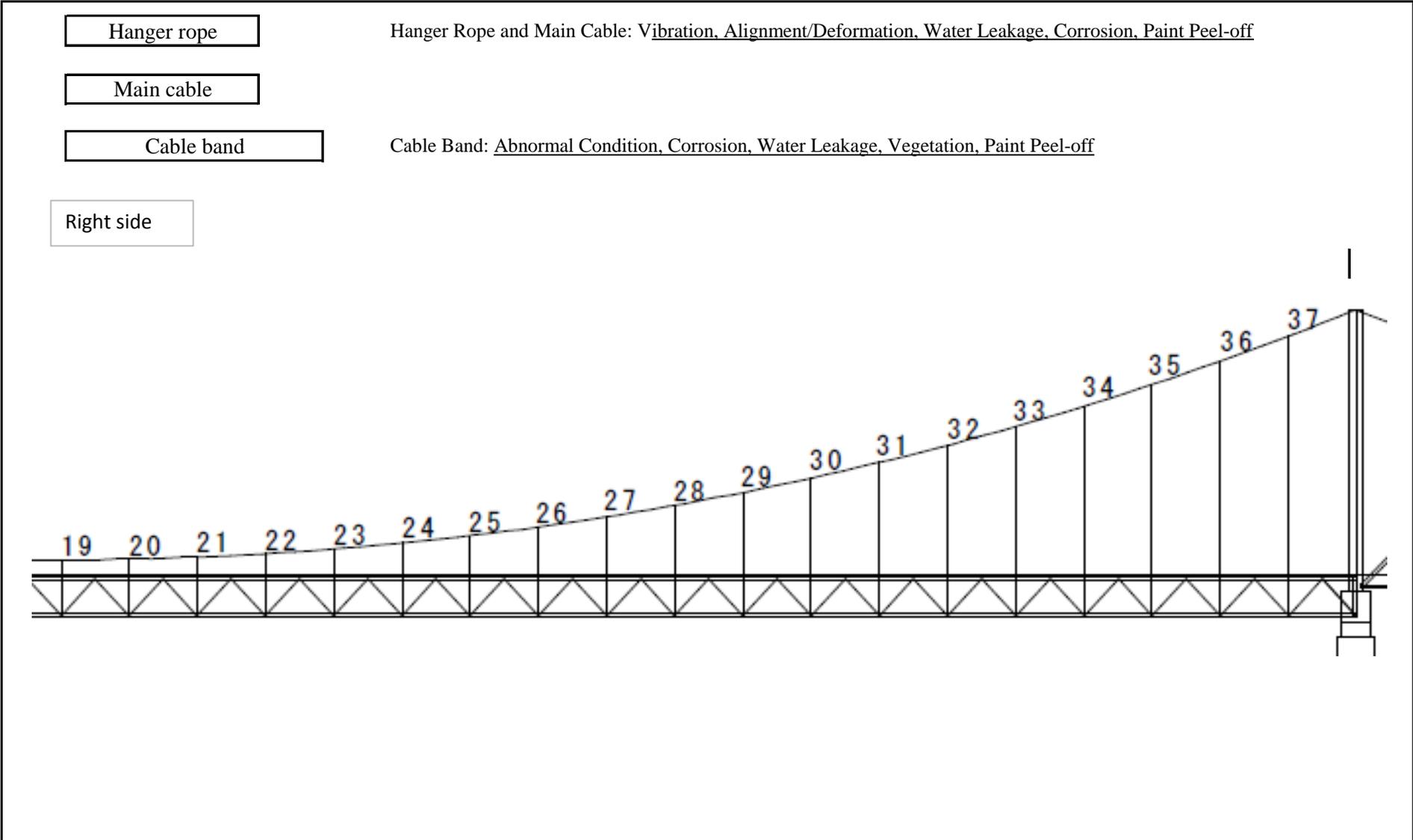


## Sketch of Bridge Routine Inspection Magapit Bridge

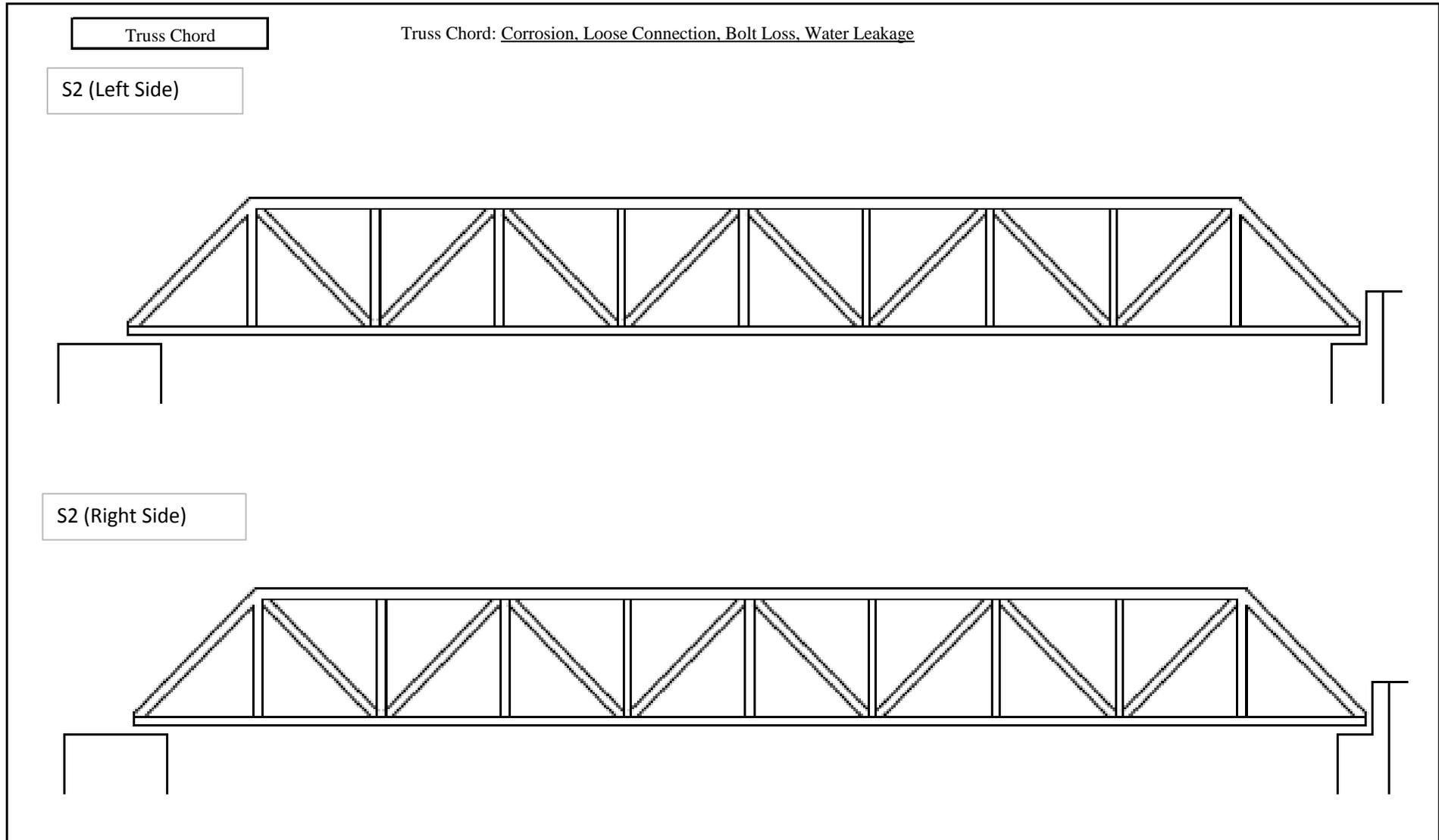
|             |   |
|-------------|---|
| Hanger rope | Hanger Rope and Main Cable: <u>Vibration, Alignment/Deformation, Water Leakage, Corrosion, Paint Peel-off</u> |
| Main cable  |   |
| Cable band  | Cable Band: <u>Abnormal Condition, Corrosion, Water Leakage, Vegetation, Paint Peel-off</u>                   |
| Right side  |   |

**Sketch of Bridge Routine Inspection  
Magapit Bridge**



# Sketch of Bridge Routine Inspection Magapit Bridge

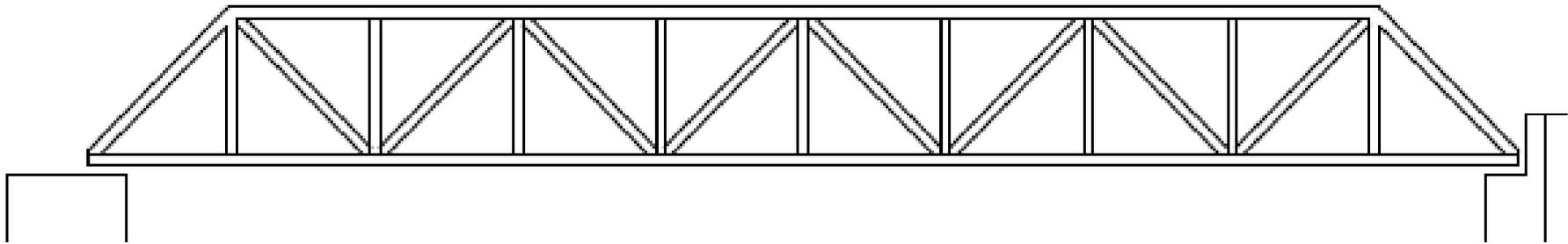


# Sketch of Bridge Routine Inspection Magapit Bridge

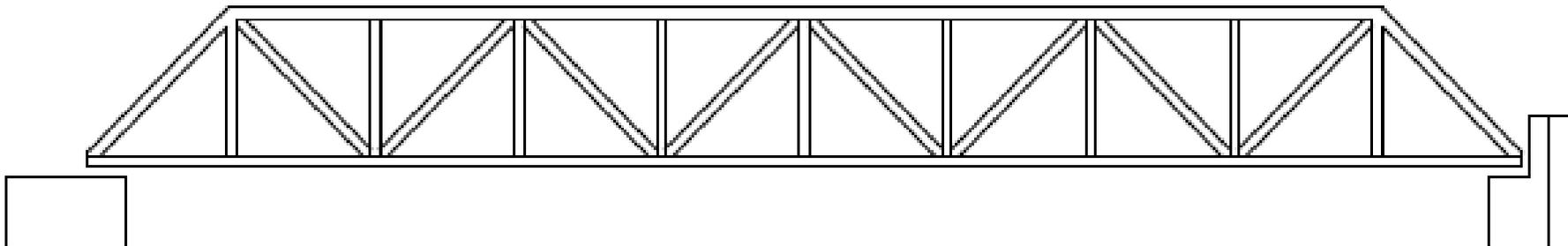
Chord and Girder

Truss Chord and Girder: Corrosion, Loose Connection, Bolt Loss, Water Leakage

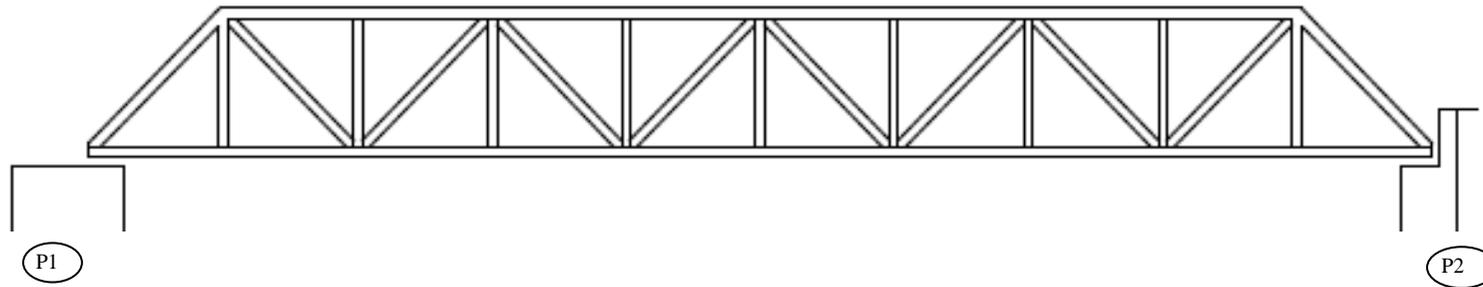
S4 (Left Side)



S4 (Right Side)

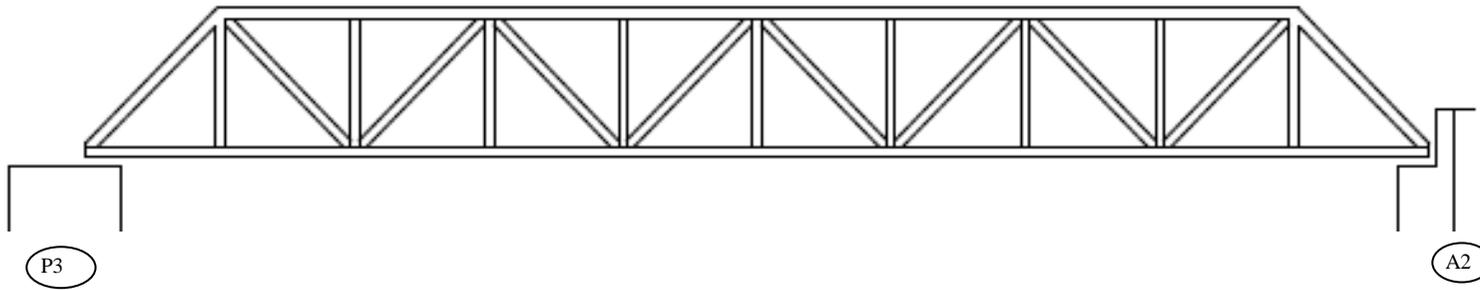


## Sketch of Bridge Routine Inspection Magapit Bridge



|            |  |
|------------|--|
| Deck Slab  | Chord, Stringer and Beam: <u>Corrosion, Loose Connection</u> |
| Stringer   | Deck Slab: <u>Rebar Exposure and Water Leakage</u>           |
| Beam       |  |
| Left Side  |  |
|            |  |
| Right Side |  |
| P1         | P2   |

## Sketch of Bridge Routine Inspection Magapit Bridge



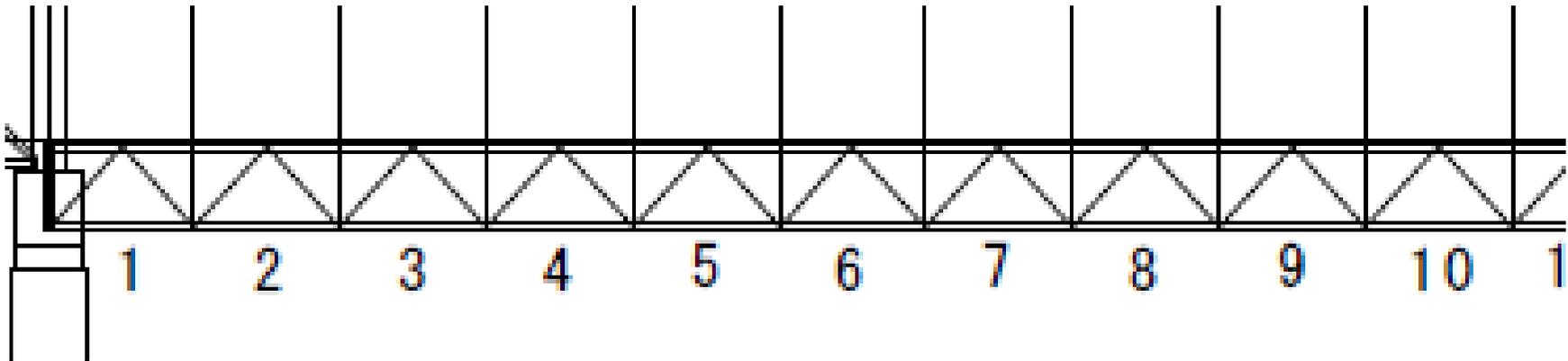
|  |  |
|--|--|
| <b>Deck Slab</b>   | Chord, Stringer and Beam: <u>Corrosion, Loose Connection</u>                           |
| <b>Stringer</b>  | Deck Slab: <u>Rebar Exposure and Water Leakage</u>                                     |
| <b>Beam</b>  |  |
| <b>Left Side</b>   |  |
|  |  |
| <b>Right Side</b>  |  |
| <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">P3</span> | <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">A2</span> |

**Sketch of Bridge Routine Inspection  
Magapit Bridge**

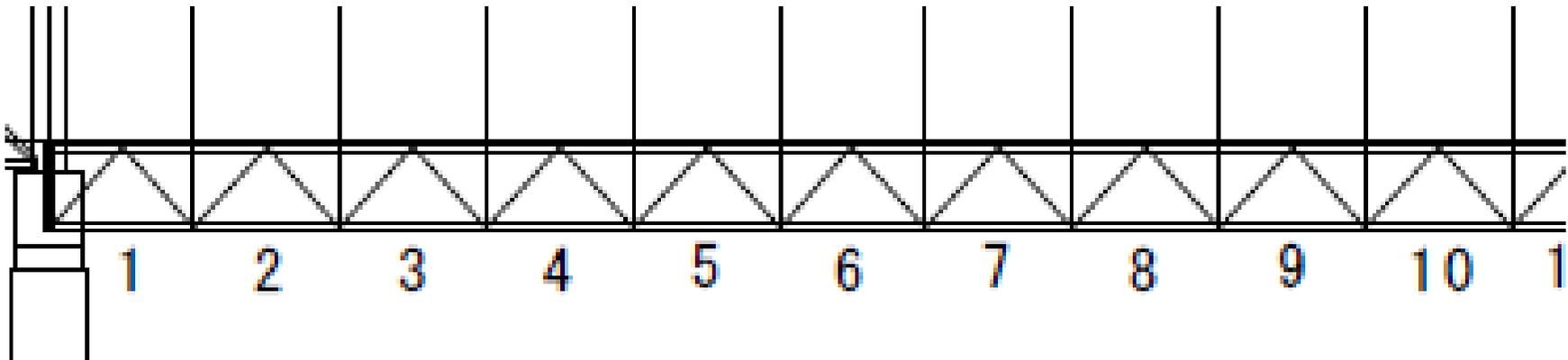
Truss Chord

Truss Chord: Corrosion, Loose Connection, Bolt Loss, Water Leakage

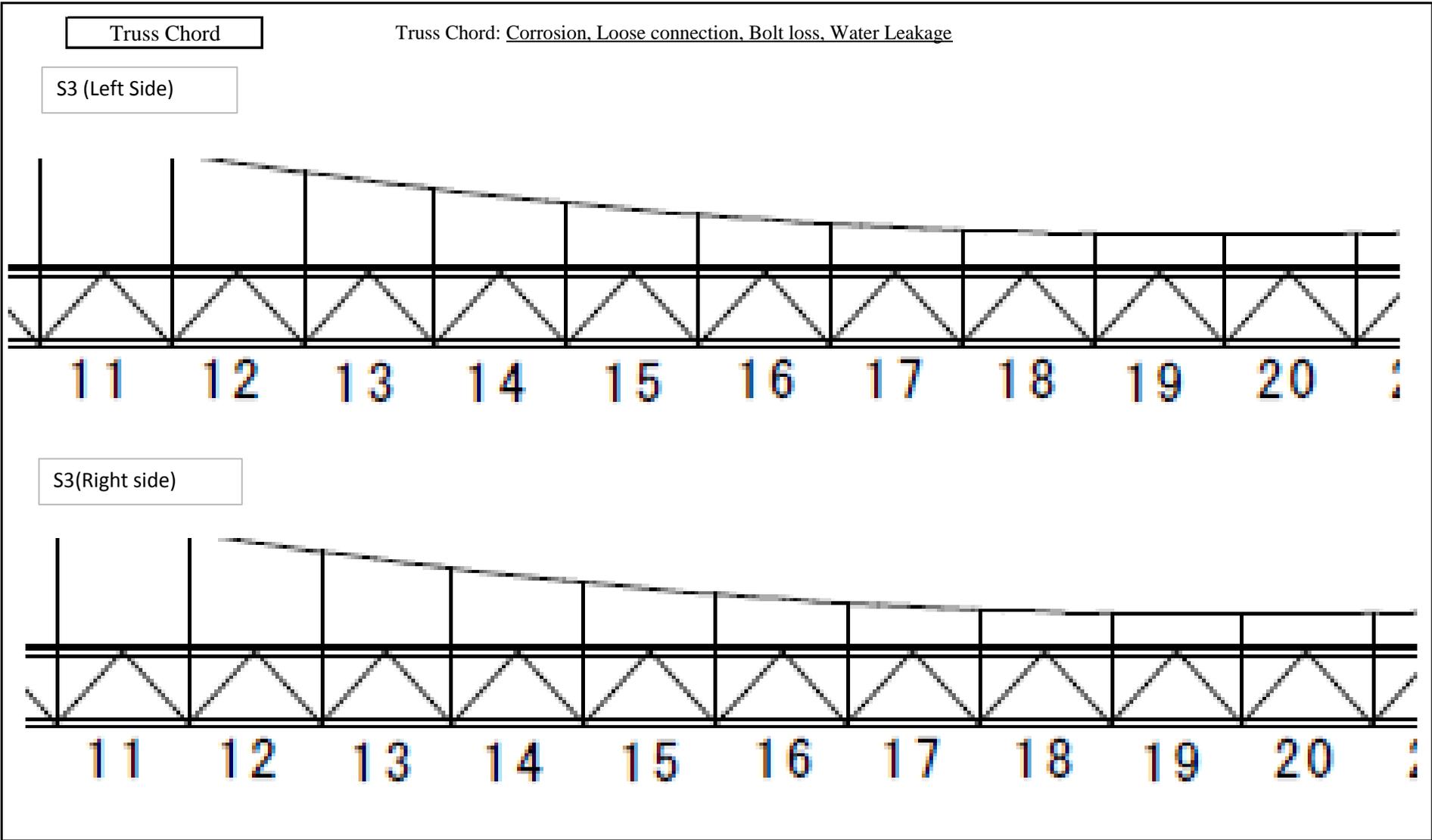
S3 (Left Side)



S3 (Right side)



**Sketch of Bridge Routine Inspection  
Magapit Bridge**

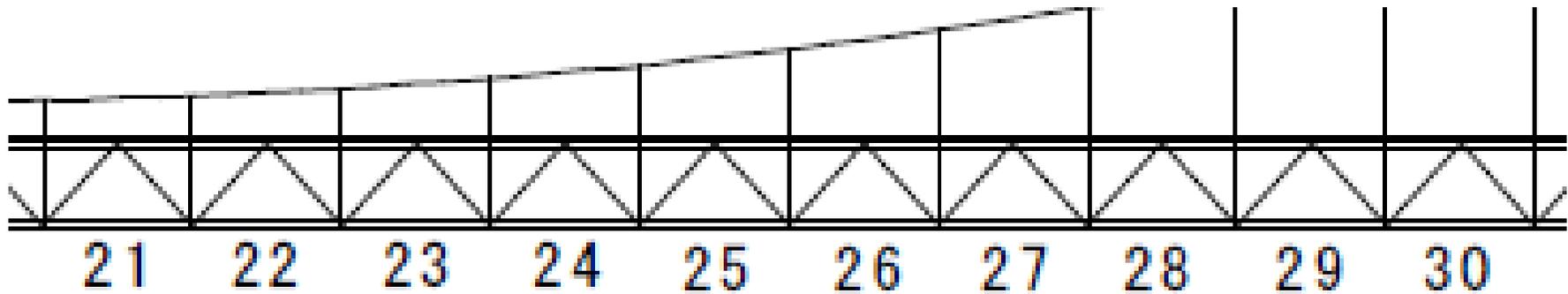


**Sketch of Bridge Routine Inspection  
Magapit Bridge**

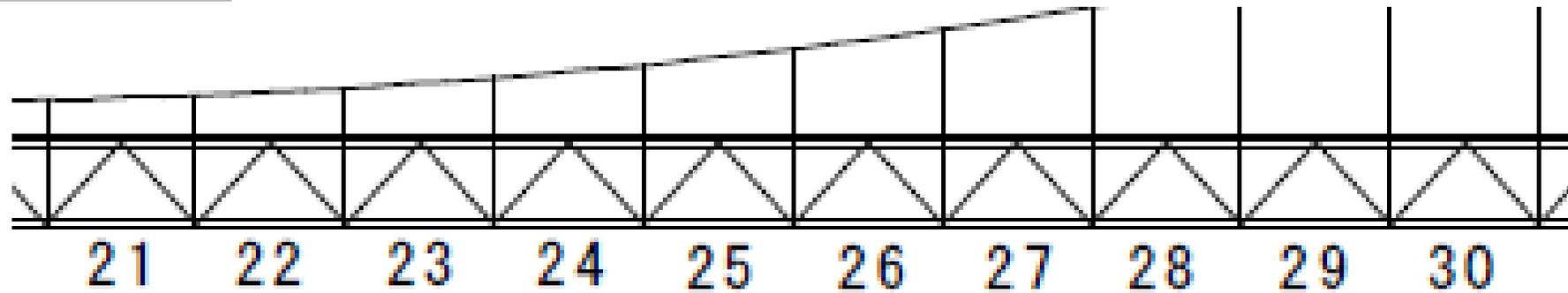
Truss Chord

Truss Chord: Corrosion, Loose Connection, Bolt Loss, Water Leakage

S3 (Left side)



S3 (Right Side)

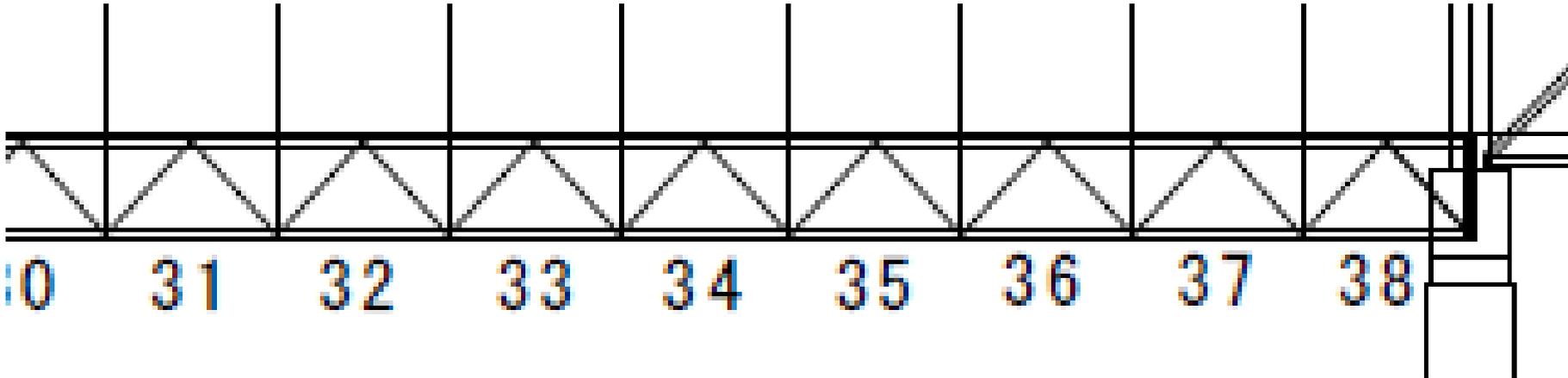


**Sketch of Bridge Routine Inspection  
Magapit Bridge**

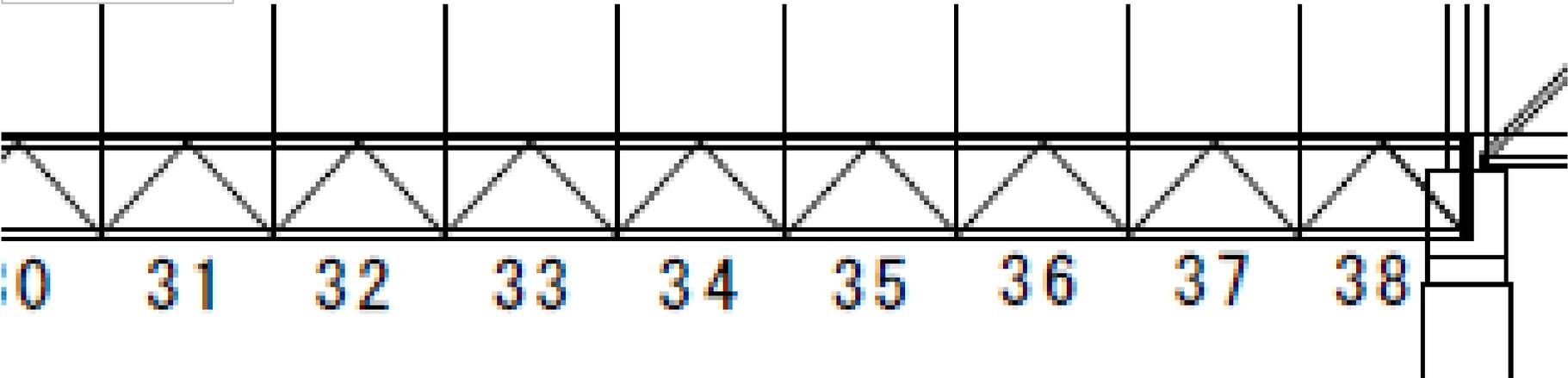
Truss Chord

Truss Chord: Corrosion, Loose Connection, Bolt Loss, Water Leakage

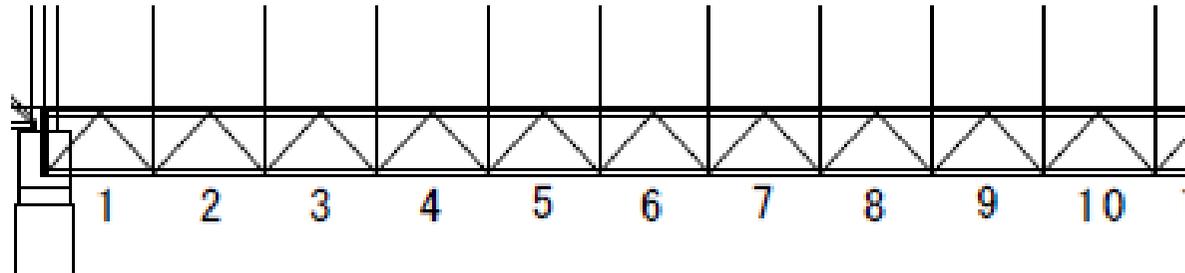
S3 (Left Side)



S3 (Right Side)



### Sketch of Bridge Routine Inspection Magapit Bridge



Deck Slab

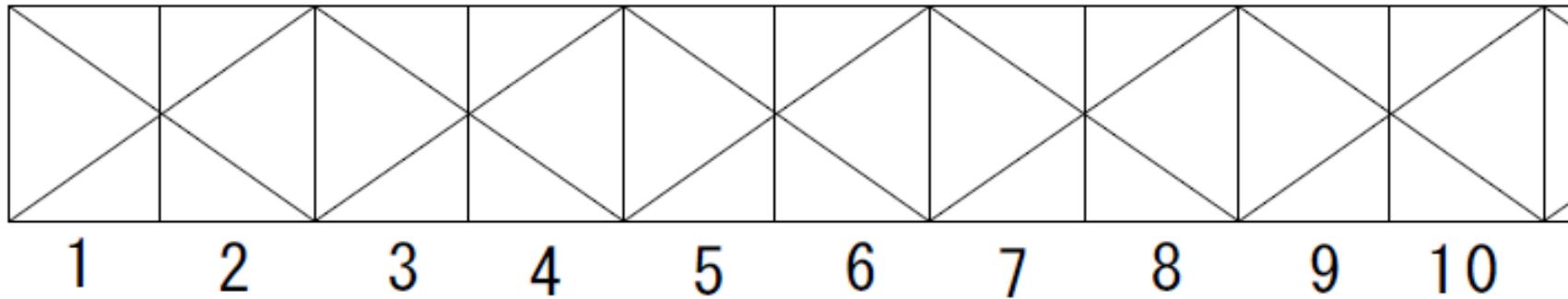
Chord, Girder and Beam: Corrosion, Loose Connection

Girder

Deck Slab: Rebar Exposure and Water Leakage

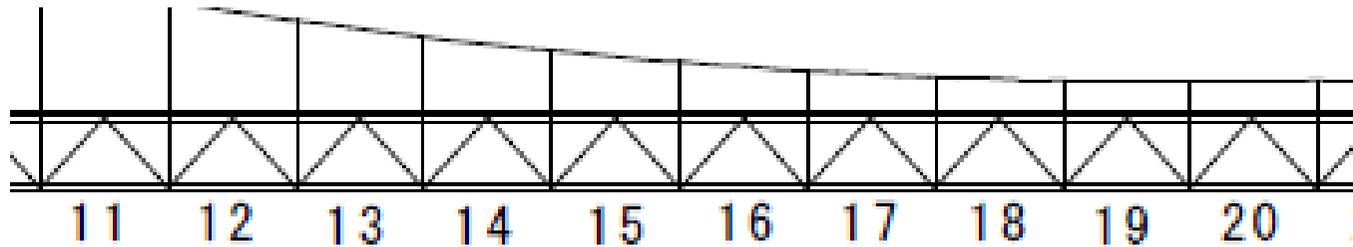
Beam

Left Side



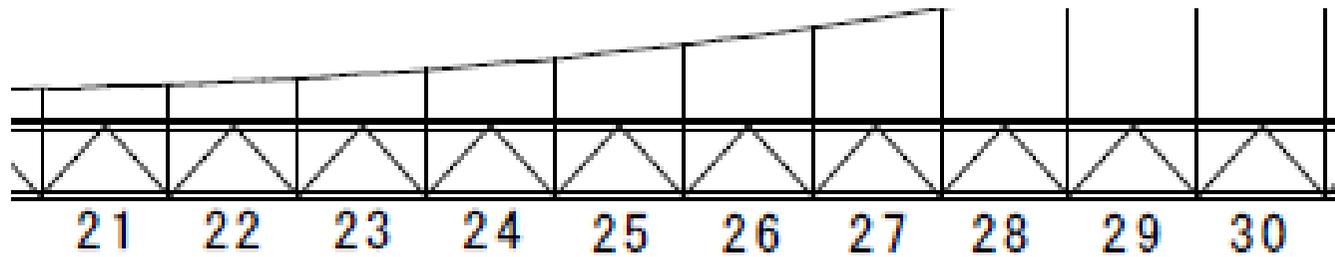
Right Side

### Sketch of Bridge Routine Inspection Magapit Bridge



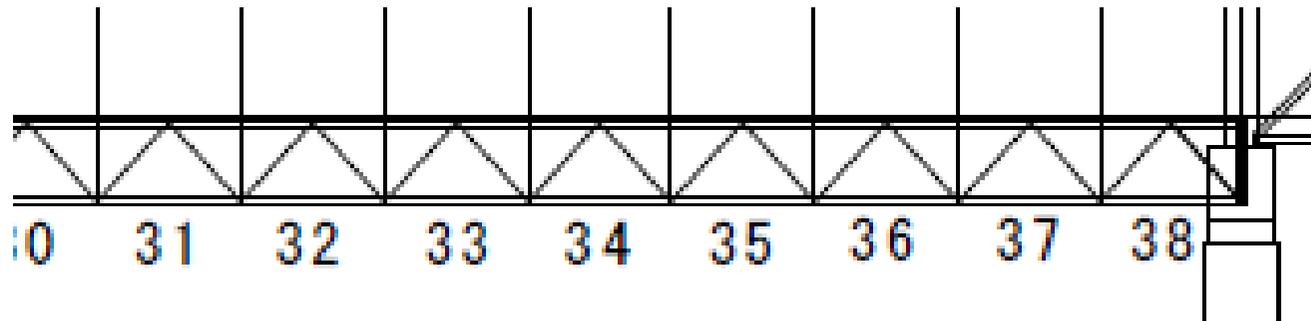
|            |  |
|------------|--|
| Deck Slab  | Chord, Girder and Beam: <u>Corrosion, Loose Connection</u> |
| Girder     | Deck Slab: <u>Rebar Exposure and Water Leakage</u>         |
| Beam       |  |
| Left Side  |  |
|            |  |
| Right Side |  |

**Sketch of Bridge Routine Inspection  
Magapit Bridge**



|            |  |
|------------|--|
| Deck Slab  | Chord, Girder and Beam: <u>Corrosion, Loose Connection</u> |
| Girder     | Deck Slab: <u>Rebar Exposure and Water Leakage</u>         |
| Beam       |  |
| Left Side  |  |
|            |  |
| Right side |  |

### Sketch of Bridge Routine Inspection Magapit Bridge



Deck Slab

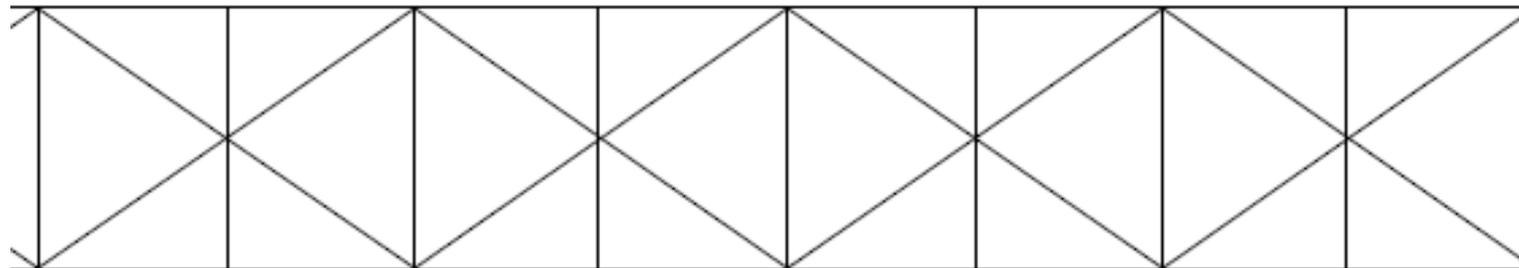
Chord, Girder and Beam: Corrosion, Loose Connection

Girder

Deck Slab: Rebar Exposure and Water Leakage

Beam

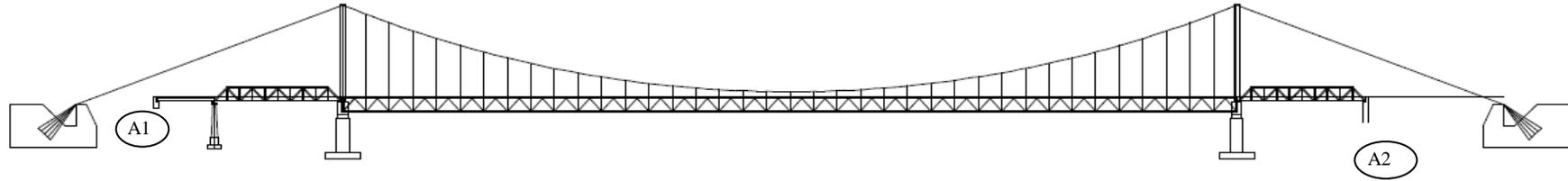
Left Side



31   32   33   34   35   36   37   38

Right Side

# Sketch of Bridge Routine Inspection Magapit Bridge



**Abutment**

Abutment and Pier: Rebar Exposure, Settlement and Water Leakage

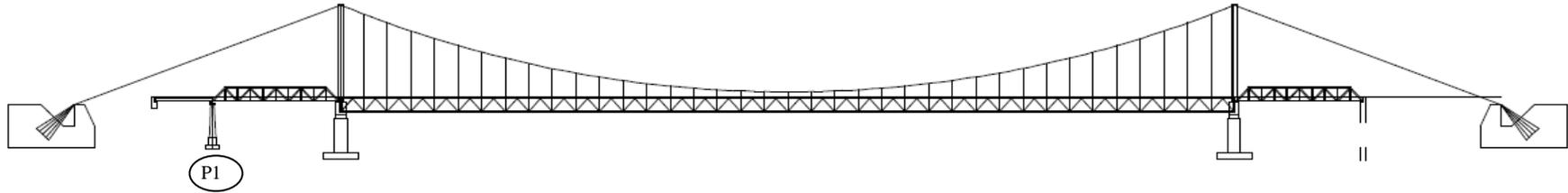
A1



A2



# Sketch of Bridge Routine Inspection Magapit Bridge

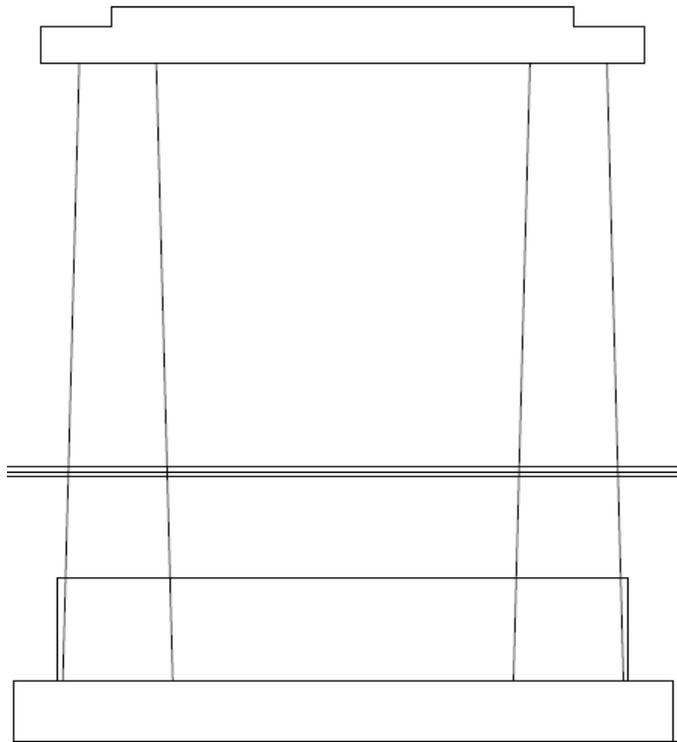


Abutment

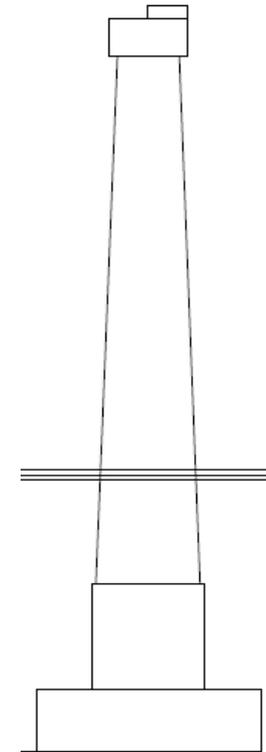
Abutment and Pier: Rebar Exposure, Settlement and Water Leakage

P1

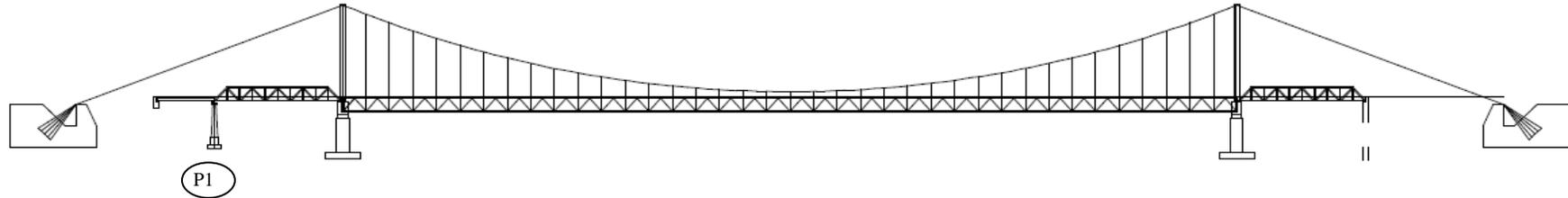
A1 side



Right side



# Sketch of Bridge Routine Inspection Magapit Bridge

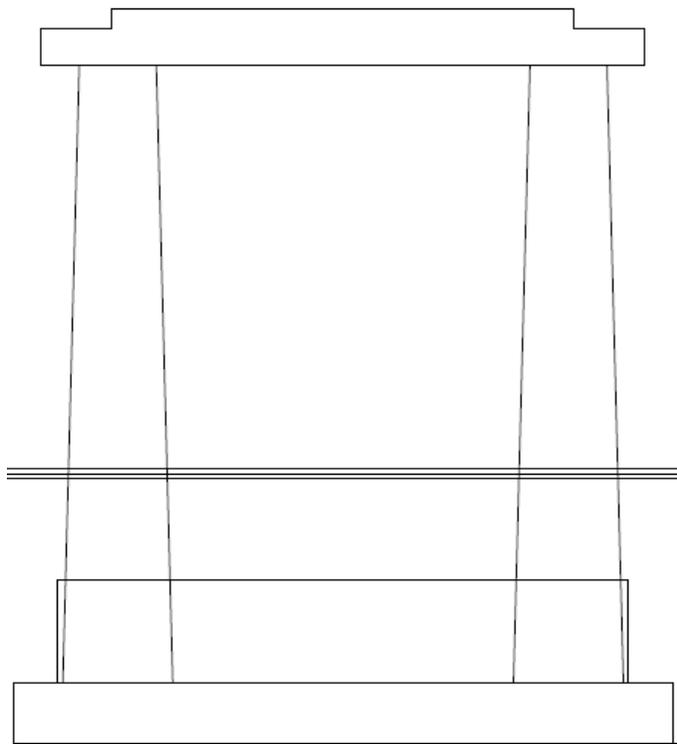


**Abutment**

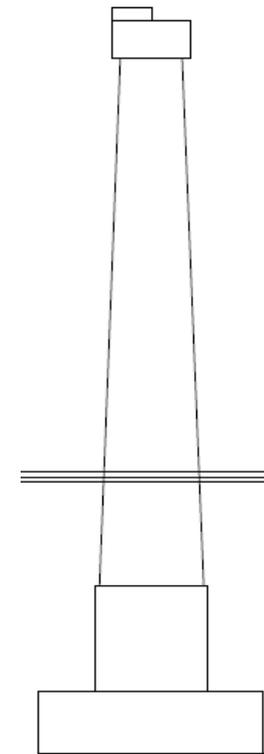
Abutment and Pier: Rebar Exposure, Settlement and Water Leakage

**P1**

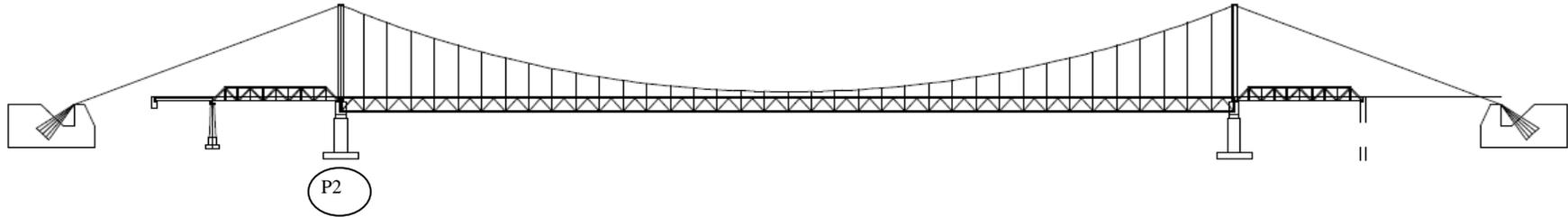
P2 side



Left side



## Sketch of Bridge Routine Inspection Magapit Bridge



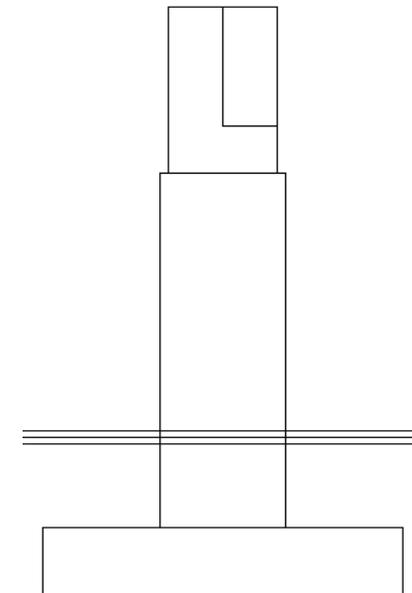
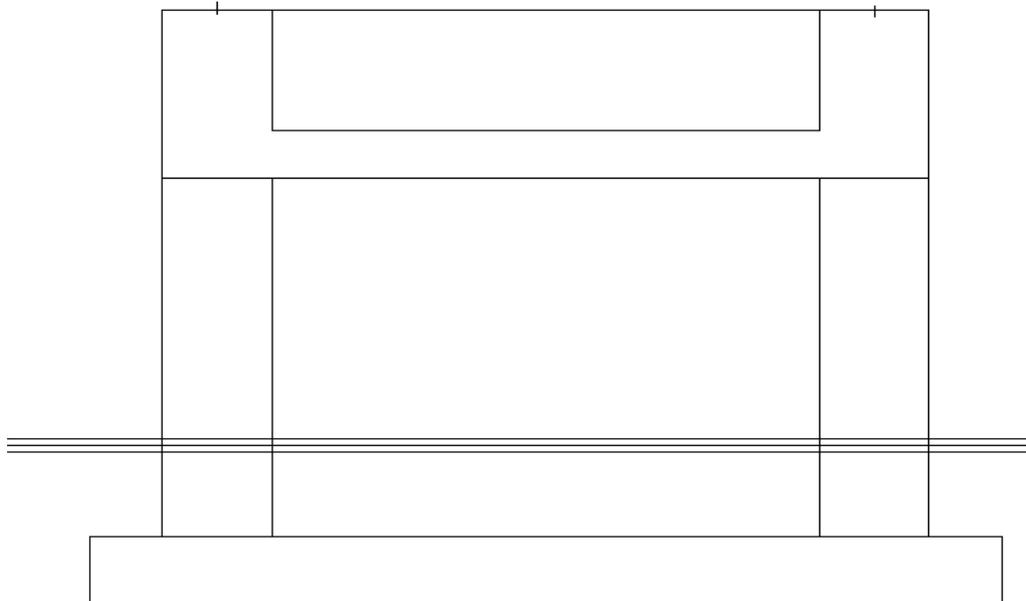
**Abutment**

Abutment and Pier: Rebar Exposure, Settlement and Water Leakage

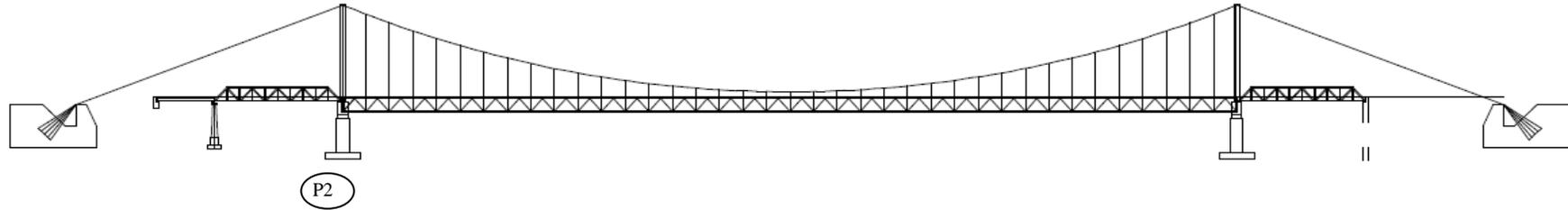
**P2**

P1 side

Right side



# Sketch of Bridge Routine Inspection Magapit Bridge

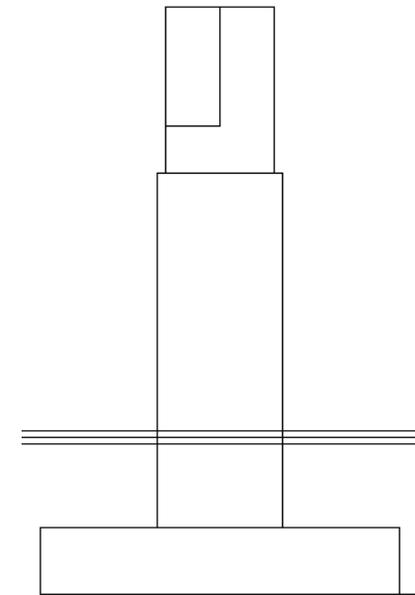
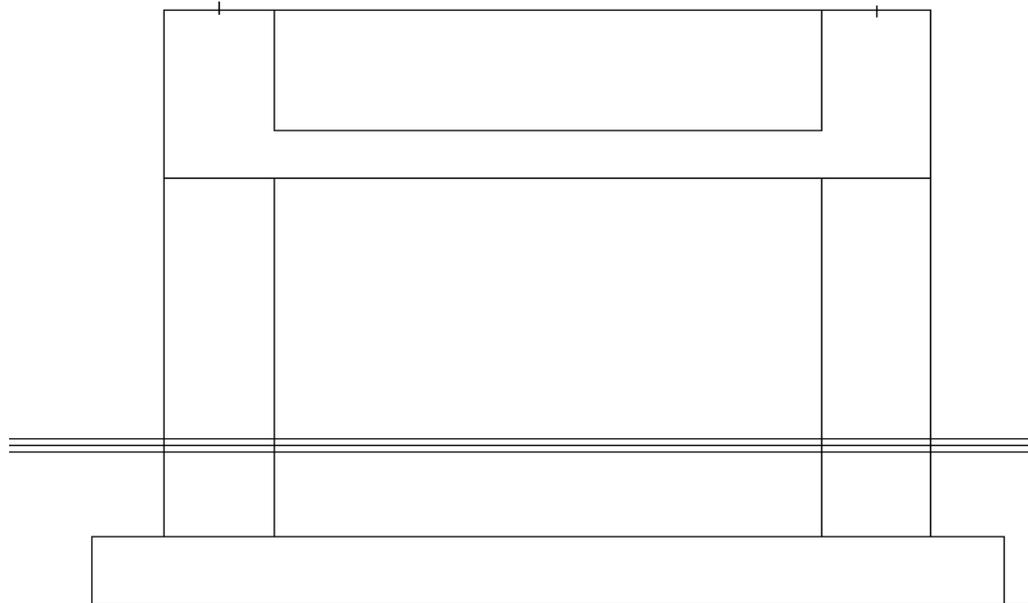


**Abutment** Abutment and Pier: Rebar Exposure, Settlement and Water Leakage

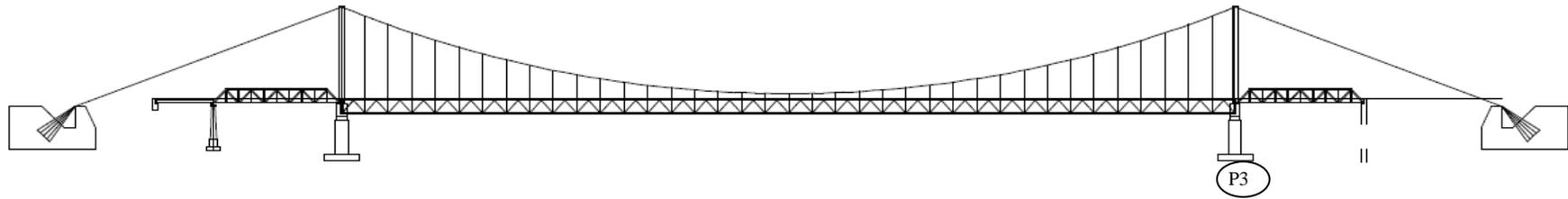
**P2**

P3 Side

Left Side



# Sketch of Bridge Routine Inspection Magapit Bridge



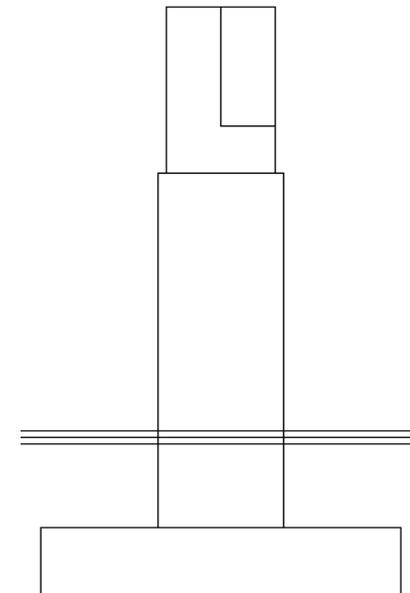
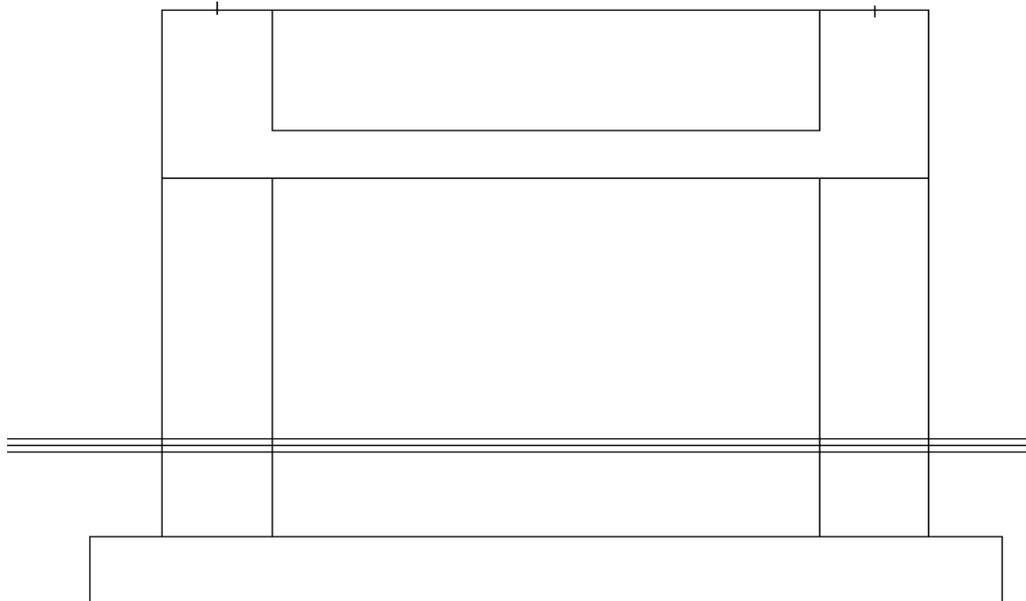
**Abutment**

Abutment and Pier: Rebar Exposure, Settlement and Water Leakage

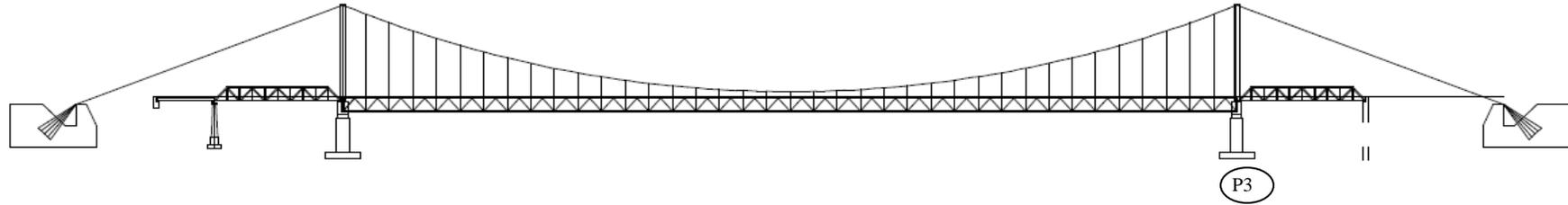
P3

P2 Side

Left Side



# Sketch of Bridge Routine Inspection Magapit Bridge



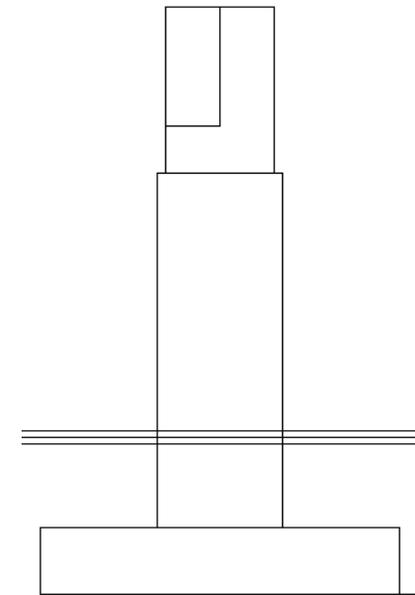
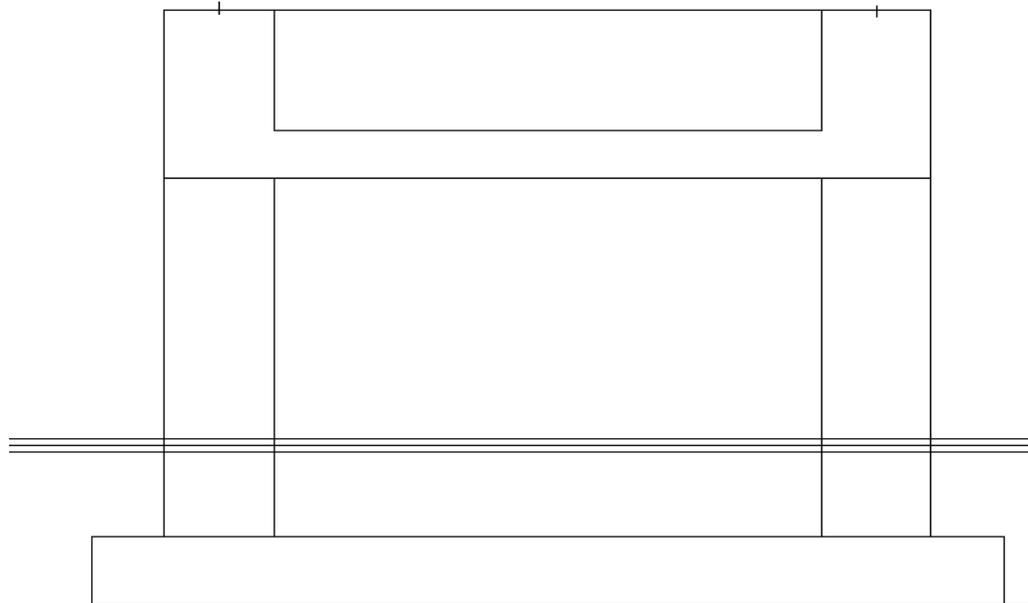
Abutment

Abutment and Pier: Rebar exposure, Settlement and Water leakage

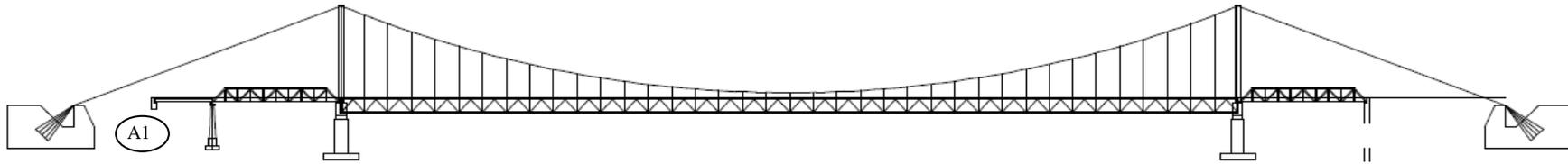
P1

A2 Side

Right Side



## Sketch of Bridge Routine Inspection Magapit Bridge



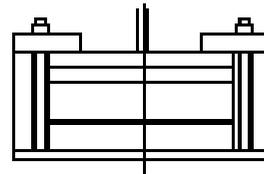
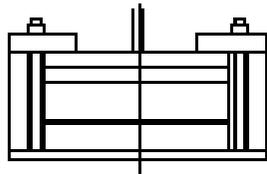
**Bearing** Bearing: Abnormal Condition, Dirt Accumulation

**Approach (A1)**

**Left**

A1 Side

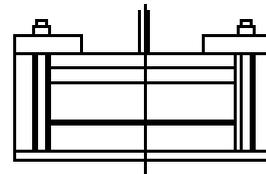
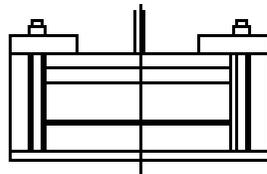
A2 Side



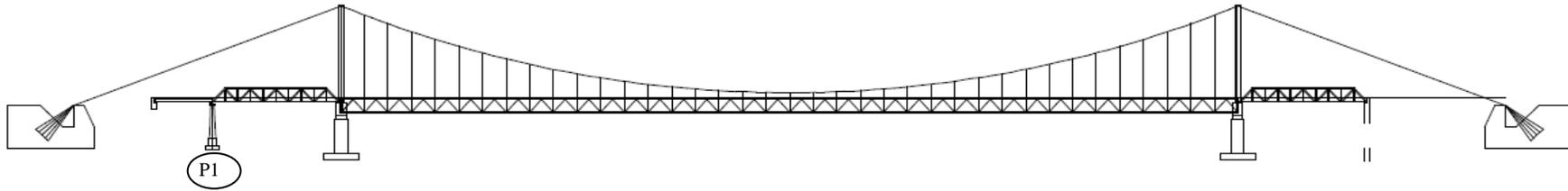
**Right**

A1 side

A2 Side



## Sketch of Bridge Routine Inspection Magapit Bridge



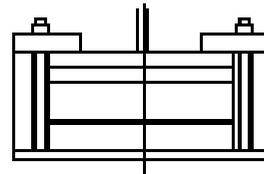
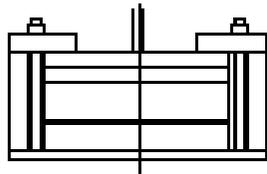
**Bearing** Bearing: Abnormal Condition, Dirt Accumulation

**Approach (P1)**

**Left**

A1 Side

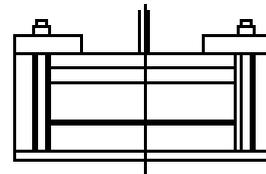
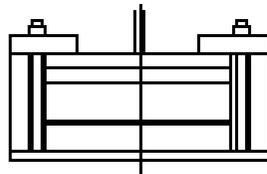
A2 Side



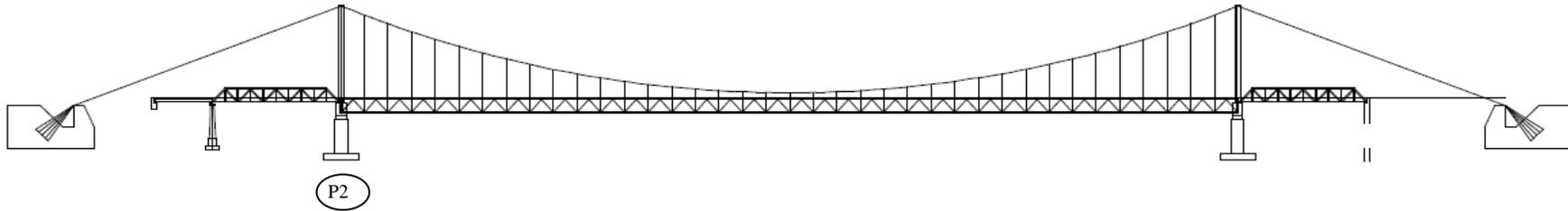
**Right**

A1 Side

A2 Side



## Sketch of Bridge Routine Inspection Magapit Bridge



**Bearing** Bearing: Abnormal Condition, Dirt Accumulation

**Suspension (P2)**

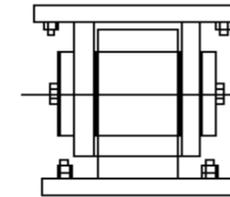
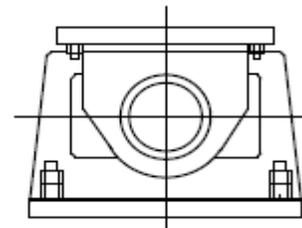
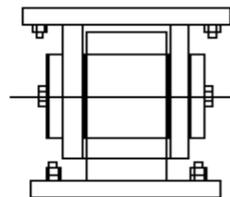
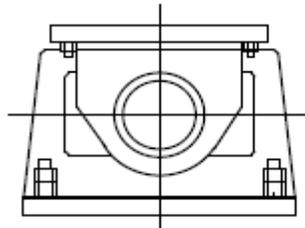
Left Side

A1 Side

Right Side

A2 Side

**Left**



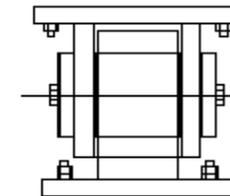
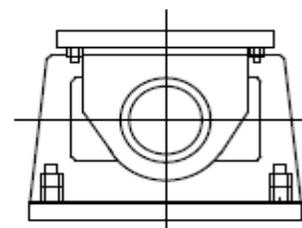
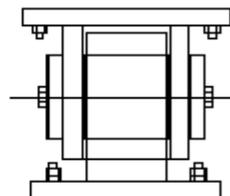
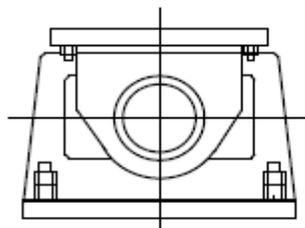
**Right**

Left Side

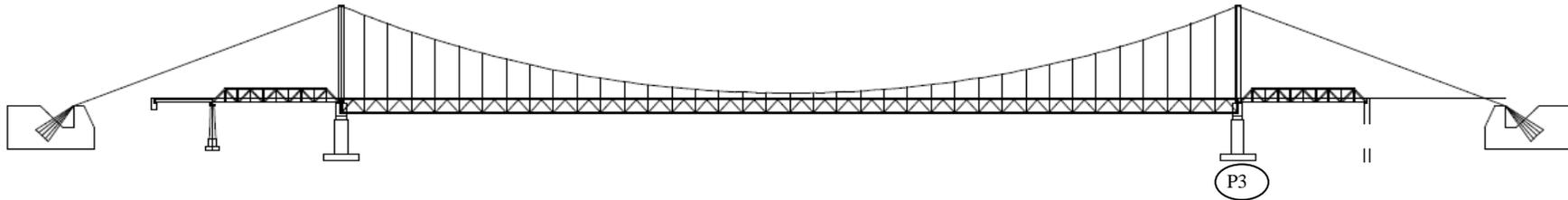
A1 Side

Right Side

A2 Side



## Sketch of Bridge Routine Inspection Magapit Bridge



**Bearing** Bearing: Abnormal Condition, Dirt Accumulation

**Suspension (P3)**

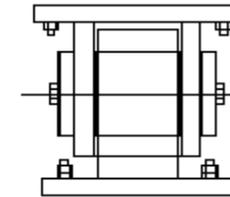
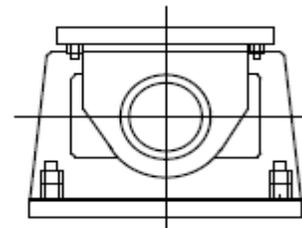
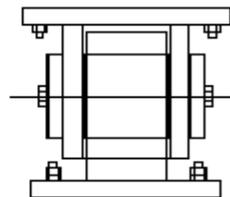
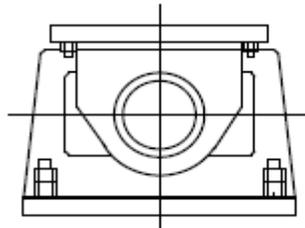
Left Side

A1 Side

Right Side

A2 Side

**Left**



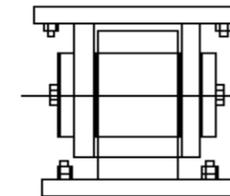
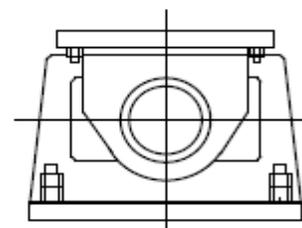
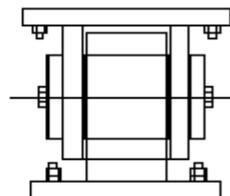
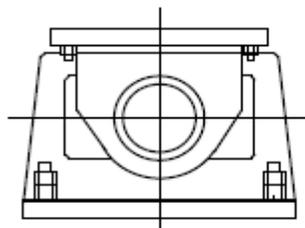
**Right**

Left Side

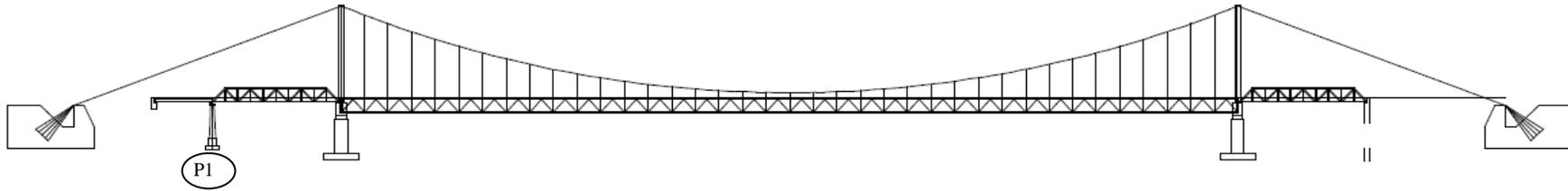
A1 Side

Right Side

A2 Side



## Sketch of Bridge Routine Inspection Magapit Bridge



**Bearing** Bearing: Abnormal Condition, Dirt Accumulation

**Pony (P1)**

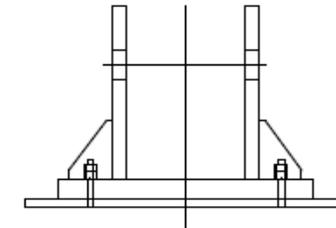
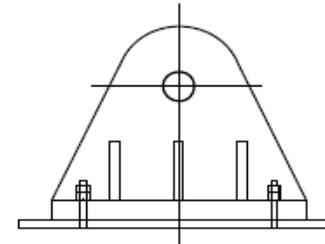
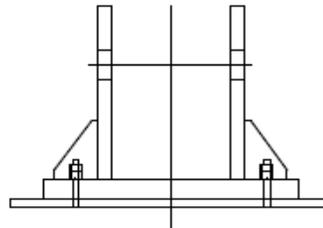
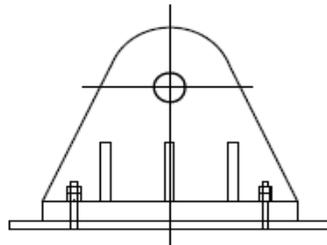
Left Side

A1 Side

Right Side

A2 Side

**Left**



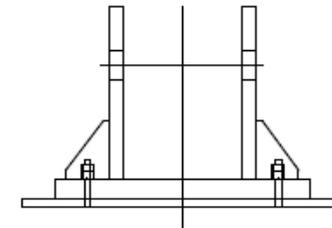
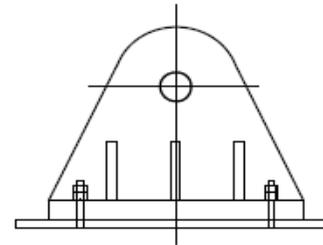
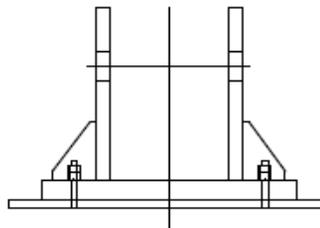
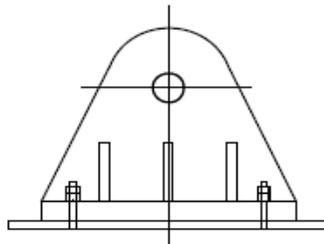
**Right**

Left Side

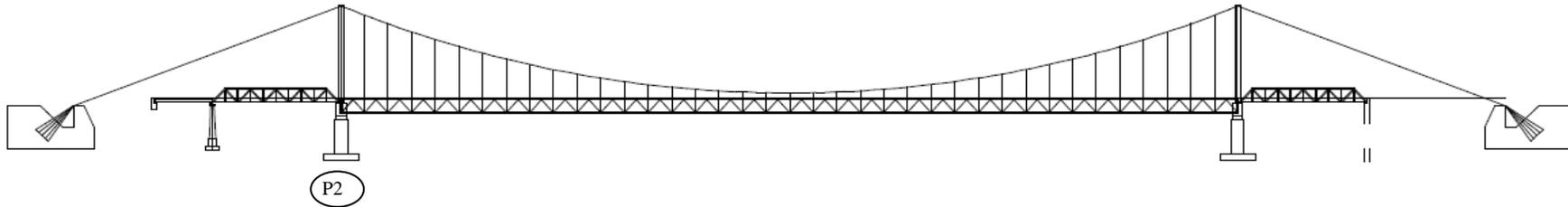
A1 Side

Right Side

A2 Side



## Sketch of Bridge Routine Inspection Magapit Bridge



**Bearing** Bearing: Abnormal Condition, Dirt Accumulation

**Pony (P2)**

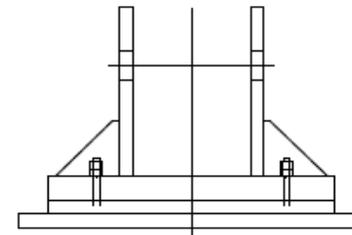
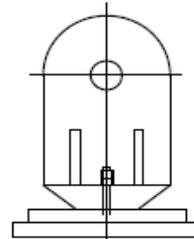
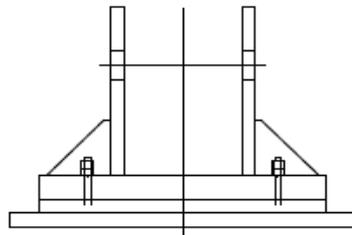
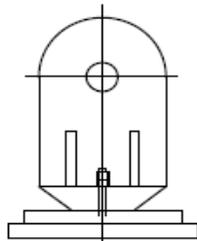
Left Side

A1 Side

Right Side

A2 Side

**Left**



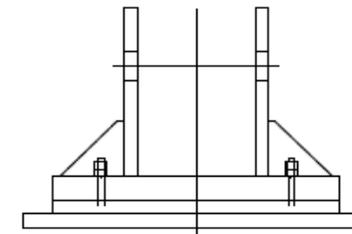
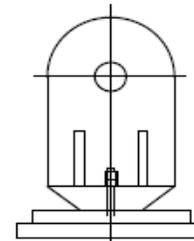
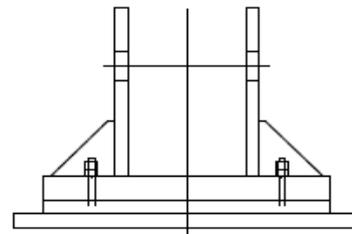
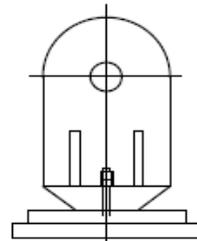
**Right**

Left Side

A1 Side

Right Side

A2 Side



## Sketch of Bridge Routine Inspection Magapit Bridge



**Bearing** Bearing: Abnormal Condition, Dirt Accumulation

**Pony (P3)**

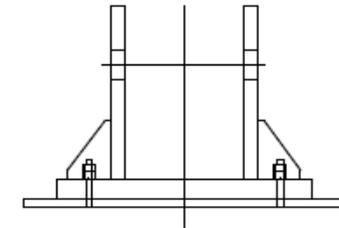
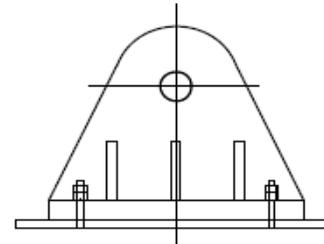
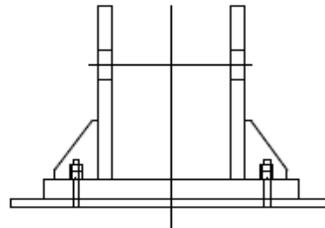
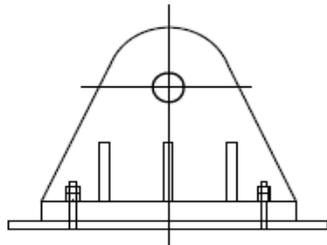
Left Side

A1 Side

Right Side

A2 Side

**Left**



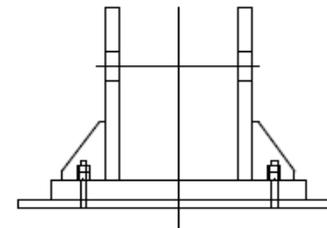
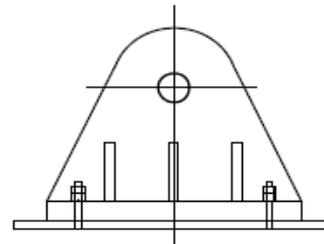
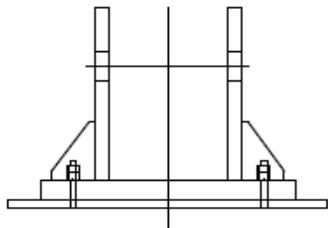
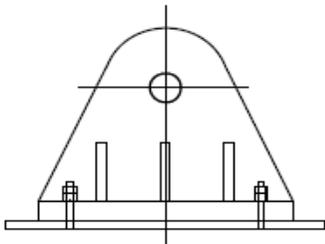
**Right**

Left Side

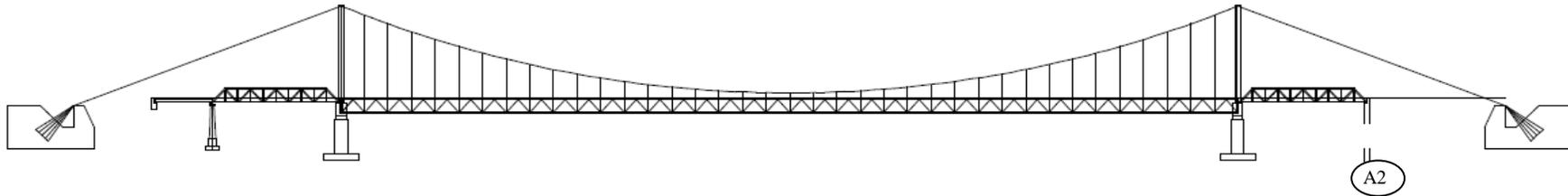
A1 Side

Right Side

A2 Side



## Sketch of Bridge Routine Inspection Magapit Bridge



**Bearing** Bearing: Abnormal condition, dirt accumulation

**Pony (A2)**

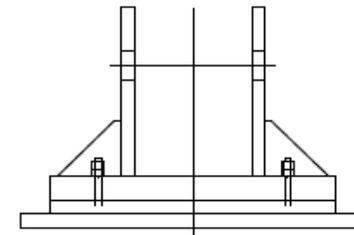
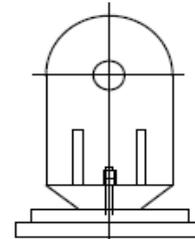
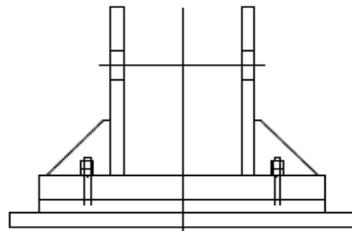
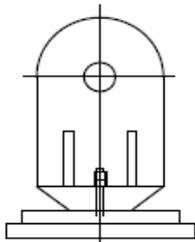
Left Side

A1 side

Right Side

A2 Side

**Left**



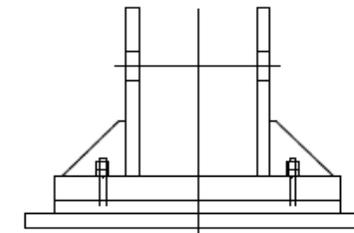
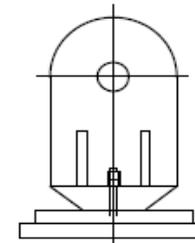
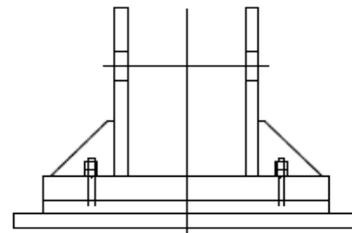
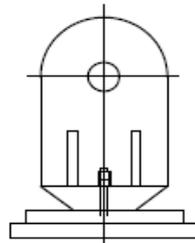
**Right**

Left Side

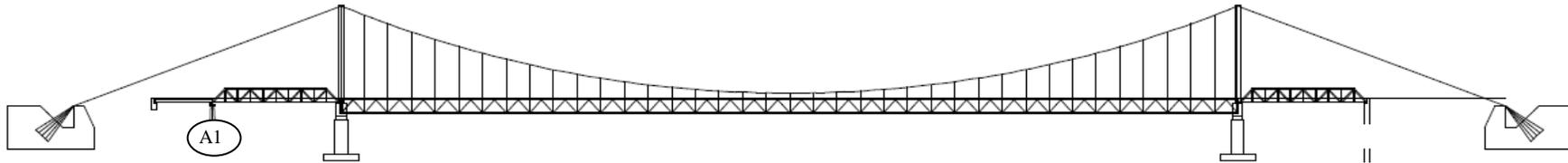
A1 side

Right Side

A2 Side



# Sketch of Bridge Routine Inspection Magapit Bridge

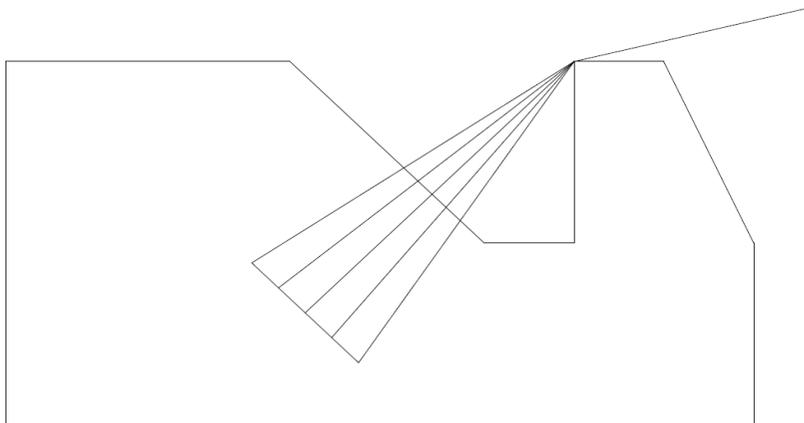


**Anchor bolt** Anchor Bolt: Abnormal Condition, Alignment/Deformation, Corrosion, Paint Peel-off

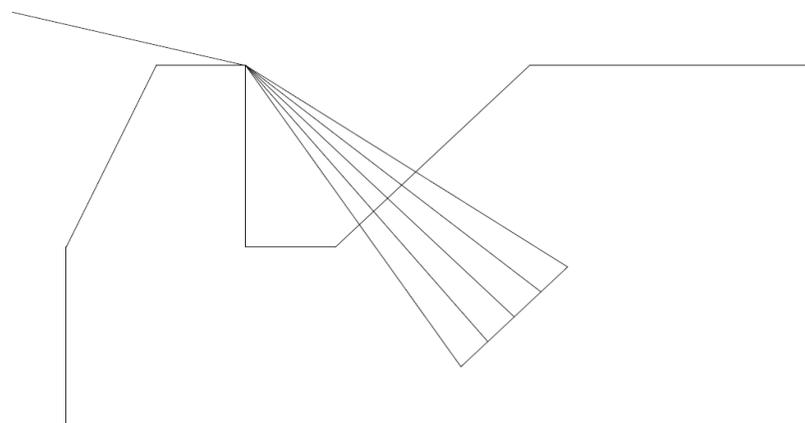
**Anchorage** Anchorage: Water and Dirt Accumulation, Abnormal Condition, Rebar Exposure

**A1 Side**

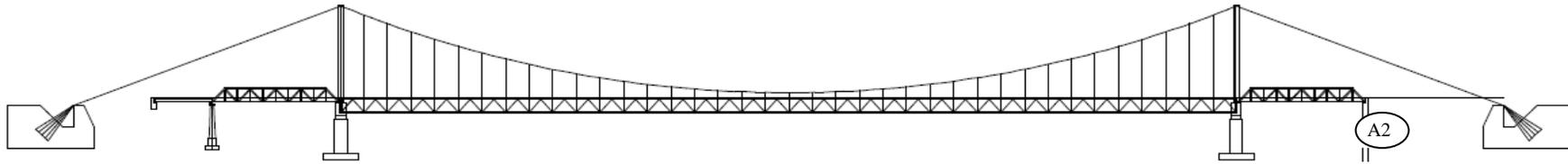
Right Side



Left Side



## Sketch of Bridge Routine Inspection Magapit Bridge



Anchor Bolt

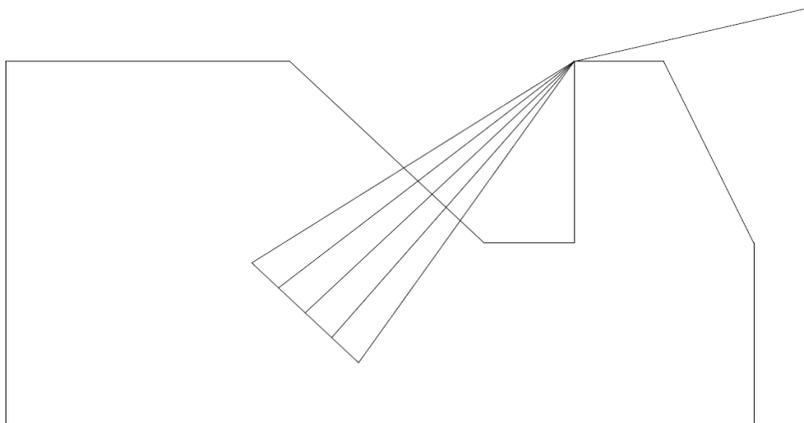
Anchor Bolt: Abnormal Condition, Alignment/Deformation, Corrosion, Paint Peel-off

Anchorage

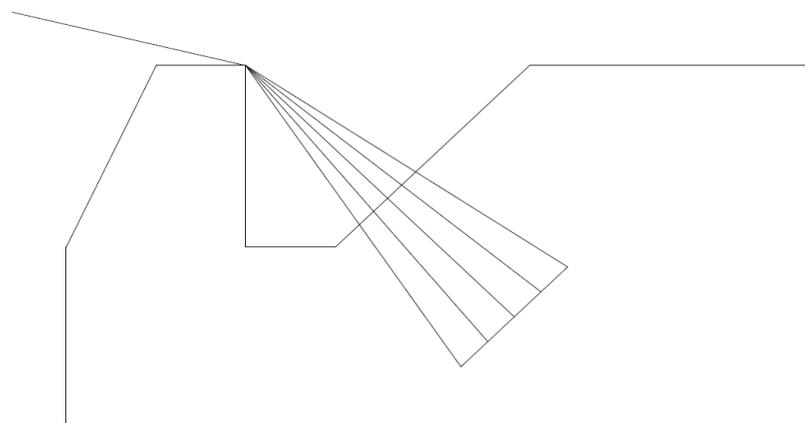
Anchorage: Water and Dirt Accumulation, Abnormal Condition, Rebar Exposure

A2 side

Right Side



Left Side



## **APPENDIX F**

# **BRIDGE CONDITION INSPECTION FORM AND SKETCH DRAWINGS**



Department of Public Works and Highways  
**BRIDGE MANAGEMENT SYSTEM**

**BRIDGE CONDITION INSPECTION FORM (TYPE 2)**

***MAGAPIT BRIDGE***



Deptment of Public Works and Highways  
**BRIDGE MANAGEMENT SYSTEM**  
**FOR**  
**MAGAPIT BRIDGE (SUSPENSION BRIDGE)**  
**BRIDGE CONDITION INSPECTION FORM (TYPE 2)**

| <b>LOCATION</b>        |                |
|------------------------|----------------|
| BRIDGE ID              |                |
| Bridge Name            | Magapit Bridge |
| Road Name              |                |
| Road ID                |                |
| Section ID             |                |
| Location               |                |
|                        |                |
| Region                 |                |
| Province               |                |
| Congressional District |                |
| Engineering District   |                |
| Municipality           |                |
| Barangay               |                |
| River Name             |                |

Insert Name, Position, Signature and Date of Signing  
 Initial all other pages

| <b>BRIDGE DESCRIPTION</b> |  |
|---------------------------|--|
| Type of Bridge            |  |
| Superstructure            |  |
| Substructure              |  |
| Foundation                |  |
| Total Number of Span      |  |
| Total Number of Abutment  |  |
| Total Number of Pier      |  |

|                                   |  |
|-----------------------------------|--|
| <b>Date of Routine Inspection</b> |  |
| <b>ACCOMPLISHED BY:</b>           |  |
| <b>SUBMITTED BY:</b>              |  |

## REPAIR RECORD

Bridge ID.

Bridge Name

### MAJOR MAINTENANCE

| DATE | MAJOR MAINTENANCE |       |      | IMPLEMENTATION |            |          |        | INSPECTOR<br>COMMENTS |
|------|-------------------|-------|------|----------------|------------|----------|--------|-----------------------|
|      | TYPE              | SCOPE | COST | START          | COMPLETION | DURATION | STATUS |                       |
|      |                   |       |      |                |            |          |        |                       |
|      |                   |       |      |                |            |          |        |                       |
|      |                   |       |      |                |            |          |        |                       |
|      |                   |       |      |                |            |          |        |                       |
|      |                   |       |      |                |            |          |        |                       |
|      |                   |       |      |                |            |          |        |                       |
|      |                   |       |      |                |            |          |        |                       |

### ROUTINE MAINTENANCE

| DATE | ROUTINE MAINTENANCE |       |      | IMPLEMENTATION |            |          |        | INSPECTOR<br>COMMENTS |
|------|---------------------|-------|------|----------------|------------|----------|--------|-----------------------|
|      | TYPE                | SCOPE | COST | START          | COMPLETION | DURATION | STATUS |                       |
|      |                     |       |      |                |            |          |        |                       |
|      |                     |       |      |                |            |          |        |                       |
|      |                     |       |      |                |            |          |        |                       |
|      |                     |       |      |                |            |          |        |                       |
|      |                     |       |      |                |            |          |        |                       |
|      |                     |       |      |                |            |          |        |                       |
|      |                     |       |      |                |            |          |        |                       |

|                |   |  |
|----------------|---|--|
| <b>LEGEND:</b> | <b>MAJOR MAINTENANCE TYPE</b><br><b>A</b> - Repair damage<br><b>B</b> - Protective measures<br><b>C</b> - Strengthen<br><b>D</b> - Replace<br><b>E</b> - None | <b>ROUTINE MAINTENANCE ACTIVITY</b><br><b>A</b> - Sweeping and cleaning<br><b>B</b> - Repairs to pavement<br><b>C</b> - Repairs to concrete component<br><b>D</b> - Repairs to steel component<br><b>E</b> - Painting bridge components<br><b>F</b> - Replace/install bolts<br><b>G</b> - Others (Specify) |
|----------------|---|--|

## SUMMARY

Bridge ID.

Bridge Name Magapit Bridge

### BRIDGE CONDITION

#### OVERALL CONDITION

|      |  |
|------|--|
| Good |  |
| Fair |  |
| Poor |  |
| Bad  |  |

#### REASONS FOR RECOMMENDATION

|                                |  |
|--------------------------------|--|
| Bridge inadequate for traffic  |  |
| Bridge alignment               |  |
| Flooding                       |  |
| Safety                         |  |
| Bridge Deterioration           |  |
| Scour and erosion              |  |
| Excessive maintenance required |  |
| Inadequate load capacity       |  |
| No bridge - bridge required    |  |
| Other                          |  |

#### RECOMMENDED ACTION

|                          |  |
|--------------------------|--|
| Routine maintenance only |  |
| Major maintenance        |  |
| Upgrading                |  |
| Replacement              |  |
| Emergency repair work    |  |

*Up to three (3) options may be selected.*

#### BRIDGE INSPECTOR COMMENT

#### TYPE OF BRIDGE

|                |  |
|----------------|--|
| Special Bridge |  |
|----------------|--|

#### ESTIMATED REMAINING BRIDGE LIFE

|       |  |
|-------|--|
| Years |  |
|-------|--|

*Remaining life of bridge shall be assessed in the range of 0-50 years*

#### BRIDGE SURVEYED?

|     |  |  |
|-----|--|--|
| Yes |  |  |
| No  |  |  |

#### REASON FOR NO SURVEY

|                              |  |
|------------------------------|--|
| Bridgeworks in progress      |  |
| Access restricted            |  |
| Affected by natural disaster |  |
| No reason                    |  |
| Other, insert reason         |  |
|                              |  |
|                              |  |

#### LEVEL OF INSPECTION

|                          |  |
|--------------------------|--|
| Complete inspection      |  |
| Partial inspection only: |  |
| BIV not available        |  |
| Other reason             |  |

#### ROUTINE MAINTENANCE

*This section requires the bridge inspector to provide cost estimates for the routine maintenance of the entire bridge for the following budget year.*

| Routine maintenance activity  | P        | Estimated Cost |
|-------------------------------|----------|----------------|
| Sweeping and cleaning         | P        |                |
| Repairs to pavement           | P        |                |
| Repairs to concrete component | P        |                |
| Repairs to steel component    | P        |                |
| Painting bridge components    | P        |                |
| Re;lace/install bolts         | P        |                |
| Others(Specify)               | P        |                |
|                               |          |                |
| <b>Total Estimated Cost</b>   | <b>P</b> |                |



**Department of Public Works and Highways**  
**BRIDGE MANAGEMENT SYSTEM**

**Span Element-Condition**



SPAN ELEMENT - CONDITION

|          |   |       |
|----------|---|-------|
| SPAN No. | 1 | A1-P1 |
|----------|---|-------|

Bridge ID

Bridge Name

| ATTRIBUTE               | ATTENTION REQUIRED | LEVEL OF INSPECTION | TYPE OF MAJOR MAINTENANCE   | ESTIMATED COST (P)  | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|-------------------------|--------------------|---------------------|-----------------------------|---------------------|--|
| DECK                    | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| MAIN MEMBER             | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| SECONDARY MEMBER        | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| LEFT RAILING            | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| RIGHT RAILING           | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| ASPHALT WEARING SURFACE | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |

Total Cost:

SPAN ELEMENT - CONDITION

|          |   |       |
|----------|---|-------|
| SPAN No. | 2 | P1-P2 |
|----------|---|-------|

Bridge ID

Bridge Name

| ATTRIBUTE               | ATTENTION REQUIRED | LEVEL OF INSPECTION | TYPE OF MAJOR MAINTENANCE   | ESTIMATED COST (P)  | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|-------------------------|--------------------|---------------------|-----------------------------|---------------------|--|
| DECK                    | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| MAIN MEMBER             | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| SECONDARY MEMBER        | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| LEFT RAILING            | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| RIGHT RAILING           | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| ASPHALT WEARING SURFACE | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |

Total Cost:

SPAN ELEMENT - CONDITION

|          |   |       |
|----------|---|-------|
| SPAN No. | 3 | P2-P3 |
|----------|---|-------|

Bridge ID

Bridge Name

| ATTRIBUTE               | ATTENTION REQUIRED | LEVEL OF INSPECTION | TYPE OF MAJOR MAINTENANCE   | ESTIMATED COST (P)  | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|-------------------------|--------------------|---------------------|-----------------------------|---------------------|--|
| DECK                    | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| MAIN MEMBER             | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| SECONDARY MEMBER        | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| LEFT RAILING            | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| RIGHT RAILING           | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| ASPHALT WEARING SURFACE | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |

Total Cost:

SPAN ELEMENT - CONDITION

|          |   |       |
|----------|---|-------|
| SPAN No. | 4 | P3-A1 |
|----------|---|-------|

Bridge ID

Bridge Name

| ATTRIBUTE               | ATTENTION REQUIRED | LEVEL OF INSPECTION | TYPE OF MAJOR MAINTENANCE   | ESTIMATED COST (P)  | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|-------------------------|--------------------|---------------------|-----------------------------|---------------------|--|
| DECK                    | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| MAIN MEMBER             | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| SECONDARY MEMBER        | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| LEFT RAILING            | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| RIGHT RAILING           | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| ASPHALT WEARING SURFACE | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                         | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                         | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                         | None               | 0                   | assessed                    | Replace             |  |
|                         | Not Applicable     |                     | Not assessed                | Other               |  |
|                         |                    |                     | <b>Total Estimated Cost</b> |                     |  |

Total Cost:

**Department of Public Works and Highways**  
**BRIDGE MANAGEMENT SYSTEM**

**Cable and Rope Element-Condition**



**CABLE ELEMENT - CONDITION**

Cable Group No. **Main Left**

Bridge ID

Bridge Name **Magapit**

| ATTRIBUTE                          | ATTENTION REQUIRED | LEVEL OF INSPECTION | TYPE OF MAJOR MAINTENANCE   | ESTIMATED COST (P)  | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|------------------------------------|--------------------|---------------------|-----------------------------|---------------------|--|
| <b>TOWER SADDLE</b>                | Immediate          | <b>3</b>            | Fully                       | Repair damage       |  |
|                                    | Within 2 years     | <b>2</b>            | assessed                    | Protective measures |  |
|                                    | Within 10 years    | <b>1</b>            | Partially                   | Strengthen          |  |
|                                    | None               | <b>0</b>            | assessed                    | Replace             |  |
|                                    | Not Applicable     |                     | Not assessed                | Other               |  |
|                                    |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| <b>CABLE</b>                       | Immediate          | <b>3</b>            | Fully                       | Repair damage       |  |
|                                    | Within 2 years     | <b>2</b>            | assessed                    | Protective measures |  |
|                                    | Within 10 years    | <b>1</b>            | Partially                   | Strengthen          |  |
|                                    | None               | <b>0</b>            | assessed                    | Replace             |  |
|                                    | Not Applicable     |                     | Not assessed                | Other               |  |
|                                    |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| <b>SPLAY SADDLE</b>                | Immediate          | <b>3</b>            | Fully                       | Repair damage       |  |
|                                    | Within 2 years     | <b>2</b>            | assessed                    | Protective measures |  |
|                                    | Within 10 years    | <b>1</b>            | Partially                   | Strengthen          |  |
|                                    | None               | <b>0</b>            | assessed                    | Replace             |  |
|                                    | Not Applicable     |                     | Not assessed                | Other               |  |
|                                    |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| <b>ANCHOR BOLT AT ANCHOR BLOCK</b> | Immediate          | <b>3</b>            | Fully                       | Repair damage       |  |
|                                    | Within 2 years     | <b>2</b>            | assessed                    | Protective measures |  |
|                                    | Within 10 years    | <b>1</b>            | Partially                   | Strengthen          |  |
|                                    | None               | <b>0</b>            | assessed                    | Replace             |  |
|                                    | Not Applicable     |                     | Not assessed                | Other               |  |
|                                    |                    |                     | <b>Total Estimated Cost</b> |                     |  |

Total Cost: \_\_\_\_\_

**CABLE ELEMENT - CONDITION**

Cable Group No. **Main RIGHT**

Bridge ID

Bridge Name

| ATTRIBUTE                          | ATTENTION REQUIRED | LEVEL OF INSPECTION | TYPE OF MAJOR MAINTENANCE   | ESTIMATED COST (P)  | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|------------------------------------|--------------------|---------------------|-----------------------------|---------------------|--|
| <b>TOWER SADDLE</b>                | Immediate          | <b>3</b>            | Fully                       | Repair damage       |  |
|                                    | Within 2 years     | <b>2</b>            | assessed                    | Protective measures |  |
|                                    | Within 10 years    | <b>1</b>            | Partially                   | Strengthen          |  |
|                                    | None               | <b>0</b>            | assessed                    | Replace             |  |
|                                    | Not Applicable     |                     | Not assessed                | Other               |  |
|                                    |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| <b>CABLE</b>                       | Immediate          | <b>3</b>            | Fully                       | Repair damage       |  |
|                                    | Within 2 years     | <b>2</b>            | assessed                    | Protective measures |  |
|                                    | Within 10 years    | <b>1</b>            | Partially                   | Strengthen          |  |
|                                    | None               | <b>0</b>            | assessed                    | Replace             |  |
|                                    | Not Applicable     |                     | Not assessed                | Other               |  |
|                                    |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| <b>SPLAY SADDLE</b>                | Immediate          | <b>3</b>            | Fully                       | Repair damage       |  |
|                                    | Within 2 years     | <b>2</b>            | assessed                    | Protective measures |  |
|                                    | Within 10 years    | <b>1</b>            | Partially                   | Strengthen          |  |
|                                    | None               | <b>0</b>            | assessed                    | Replace             |  |
|                                    | Not Applicable     |                     | Not assessed                | Other               |  |
|                                    |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| <b>ANCHOR BOLT AT ANCHOR BLOCK</b> | Immediate          | <b>3</b>            | Fully                       | Repair damage       |  |
|                                    | Within 2 years     | <b>2</b>            | assessed                    | Protective measures |  |
|                                    | Within 10 years    | <b>1</b>            | Partially                   | Strengthen          |  |
|                                    | None               | <b>0</b>            | assessed                    | Replace             |  |
|                                    | Not Applicable     |                     | Not assessed                | Other               |  |
|                                    |                    |                     | <b>Total Estimated Cost</b> |                     |  |

Total Cost:

**ROPE ELEMENT - CONDITION**

**Hanger Rope**      **Left**

Bridge ID

Bridge Name

| ATTRIBUTE                       | ATTENTION REQUIRED | LEVEL OF INSPECTION | TYPE OF MAJOR MAINTENANCE   | ESTIMATED COST (P)  | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|---------------------------------|--------------------|---------------------|-----------------------------|---------------------|--|
| <b>CABLE BAND AT MAIN CABLE</b> | Immediate          | <b>3</b>            | Fully                       | Repair damage       |  |
|                                 | Within 2 years     | <b>2</b>            | assessed                    | Protective measures |  |
|                                 | Within 10 years    | <b>1</b>            | Partially                   | Strengthen          |  |
|                                 | None               | <b>0</b>            | assessed                    | Replace             |  |
|                                 | Not Applicable     |                     | Not assessed                | Other               |  |
|                                 |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| <b>HANGER ROPE</b>              | Immediate          | <b>3</b>            | Fully                       | Repair damage       |  |
|                                 | Within 2 years     | <b>2</b>            | assessed                    | Protective measures |  |
|                                 | Within 10 years    | <b>1</b>            | Partially                   | Strengthen          |  |
|                                 | None               | <b>0</b>            | assessed                    | Replace             |  |
|                                 | Not Applicable     |                     | Not assessed                | Other               |  |
|                                 |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| <b>CABLE BAND AT GIRDER</b>     | Immediate          | <b>3</b>            | Fully                       | Repair damage       |  |
|                                 | Within 2 years     | <b>2</b>            | assessed                    | Protective measures |  |
|                                 | Within 10 years    | <b>1</b>            | Partially                   | Strengthen          |  |
|                                 | None               | <b>0</b>            | assessed                    | Replace             |  |
|                                 | Not Applicable     |                     | Not assessed                | Other               |  |
|                                 |                    |                     | <b>Total Estimated Cost</b> |                     |  |

Total Cost: \_\_\_\_\_

**ROPE ELEMENT - CONDITION**

Hanger Rope Right

Bridge ID

Bridge Name Magapit

| ATTRIBUTE                       | ATTENTION REQUIRED | LEVEL OF INSPECTION | TYPE OF MAJOR MAINTENANCE | ESTIMATED COST (P)          | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|---------------------------------|--------------------|---------------------|---------------------------|-----------------------------|--|
| <b>CABLE BAND AT MAIN CABLE</b> | Immediate          | 3                   | Fully                     | Repair damage               |  |
|                                 | Within 2 years     | 2                   | assessed                  | Protective measures         |  |
|                                 | Within 10 years    | 1                   | Partially                 | Strengthen                  |  |
|                                 | None               | 0                   | assessed                  | Replace                     |  |
|                                 | Not Applicable     |                     | Not assessed              | Other                       |  |
|                                 |                    |                     |                           | <b>Total Estimated Cost</b> |  |
| <b>HANGER ROPE</b>              | Immediate          | 3                   | Fully                     | Repair damage               |  |
|                                 | Within 2 years     | 2                   | assessed                  | Protective measures         |  |
|                                 | Within 10 years    | 1                   | Partially                 | Strengthen                  |  |
|                                 | None               | 0                   | assessed                  | Replace                     |  |
|                                 | Not Applicable     |                     | Not assessed              | Other                       |  |
|                                 |                    |                     |                           | <b>Total Estimated Cost</b> |  |
| <b>CABLE BAND AT GIRDER</b>     | Immediate          | 3                   | Fully                     | Repair damage               |  |
|                                 | Within 2 years     | 2                   | assessed                  | Protective measures         |  |
|                                 | Within 10 years    | 1                   | Partially                 | Strengthen                  |  |
|                                 | None               | 0                   | assessed                  | Replace                     |  |
|                                 | Not Applicable     |                     | Not assessed              | Other                       |  |
|                                 |                    |                     |                           | <b>Total Estimated Cost</b> |  |

Total Cost: \_\_\_\_\_

**Department of Public Works and Highways**  
**BRIDGE MANAGEMENT SYSTEM**

**Pier Element-Condition**



**PIER ELEMENT - CONDITION**

|          |    |
|----------|----|
| PIER No. | P1 |
|----------|----|

|           |  |             |         |
|-----------|--|-------------|---------|
| Bridge ID |  | Bridge Name | Magapit |
|-----------|--|-------------|---------|

| ATTRIBUTE              | ATTENTION REQUIRED | LEVEL OF INSPECTION        | TYPE OF MAJOR MAINTENANCE   | ESTIMATED COST (P)  | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|------------------------|--------------------|----------------------------|-----------------------------|---------------------|--|
| <b>MAIN STRUCTURE</b>  | Immediate          | <input type="checkbox"/> 3 | Fully                       | Repair damage       |  |
|                        | Within 2 years     | <input type="checkbox"/> 2 | assessed                    | Protective measures |  |
|                        | Within 10 years    | <input type="checkbox"/> 1 | Partially                   | Strengthen          |  |
|                        | None               | <input type="checkbox"/> 0 | assessed                    | Replace             |  |
|                        | Not Applicable     | <input type="checkbox"/>   | Not assessed                | Other               |  |
|                        |                    |                            | <b>Total Estimated Cost</b> |                     |  |
| <b>EXPANSION JOINT</b> | Immediate          | <input type="checkbox"/> 3 | Fully                       | Repair damage       |  |
|                        | Within 2 years     | <input type="checkbox"/> 2 | assessed                    | Protective measures |  |
|                        | Within 10 years    | <input type="checkbox"/> 1 | Partially                   | Strengthen          |  |
|                        | None               | <input type="checkbox"/> 0 | assessed                    | Replace             |  |
|                        | Not Applicable     | <input type="checkbox"/>   | Not assessed                | Other               |  |
|                        |                    |                            | <b>Total Estimated Cost</b> |                     |  |
| <b>BEARING</b>         | Immediate          | <input type="checkbox"/> 3 | Fully                       | Repair damage       |  |
|                        | Within 2 years     | <input type="checkbox"/> 2 | assessed                    | Protective measures |  |
|                        | Within 10 years    | <input type="checkbox"/> 1 | Partially                   | Strengthen          |  |
|                        | None               | <input type="checkbox"/> 0 | assessed                    | Replace             |  |
|                        | Not Applicable     | <input type="checkbox"/>   | Not assessed                | Other               |  |
|                        |                    |                            | <b>Total Estimated Cost</b> |                     |  |

Total Cost: \_\_\_\_\_

|          |    |
|----------|----|
| PIER No. | P2 |
|----------|----|

| ATTRIBUTE              | ATTENTION REQUIRED | LEVEL OF INSPECTION        | TYPE OF MAJOR MAINTENANCE   | ESTIMATED COST (P)  | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|------------------------|--------------------|----------------------------|-----------------------------|---------------------|--|
| <b>MAIN STRUCTURE</b>  | Immediate          | <input type="checkbox"/> 3 | Fully                       | Repair damage       |  |
|                        | Within 2 years     | <input type="checkbox"/> 2 | assessed                    | Protective measures |  |
|                        | Within 10 years    | <input type="checkbox"/> 1 | Partially                   | Strengthen          |  |
|                        | None               | <input type="checkbox"/> 0 | assessed                    | Replace             |  |
|                        | Not Applicable     | <input type="checkbox"/>   | Not assessed                | Other               |  |
|                        |                    |                            | <b>Total Estimated Cost</b> |                     |  |
| <b>EXPANSION JOINT</b> | Immediate          | <input type="checkbox"/> 3 | Fully                       | Repair damage       |  |
|                        | Within 2 years     | <input type="checkbox"/> 2 | assessed                    | Protective measures |  |
|                        | Within 10 years    | <input type="checkbox"/> 1 | Partially                   | Strengthen          |  |
|                        | None               | <input type="checkbox"/> 0 | assessed                    | Replace             |  |
|                        | Not Applicable     | <input type="checkbox"/>   | Not assessed                | Other               |  |
|                        |                    |                            | <b>Total Estimated Cost</b> |                     |  |
| <b>BEARING</b>         | Immediate          | <input type="checkbox"/> 3 | Fully                       | Repair damage       |  |
|                        | Within 2 years     | <input type="checkbox"/> 2 | assessed                    | Protective measures |  |
|                        | Within 10 years    | <input type="checkbox"/> 1 | Partially                   | Strengthen          |  |
|                        | None               | <input type="checkbox"/> 0 | assessed                    | Replace             |  |
|                        | Not Applicable     | <input type="checkbox"/>   | Not assessed                | Other               |  |
|                        |                    |                            | <b>Total Estimated Cost</b> |                     |  |

Total Cost: \_\_\_\_\_

**PIER ELEMENT - CONDITION**

PIER No. P3

Bridge ID

Bridge Name Magapit

| ATTRIBUTE              | ATTENTION REQUIRED | LEVEL OF INSPECTION | TYPE OF MAJOR MAINTENANCE   | ESTIMATED COST (P)  | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|------------------------|--------------------|---------------------|-----------------------------|---------------------|--|
| <b>MAIN STRUCTURE</b>  | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                        | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                        | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                        | None               | 0                   | assessed                    | Replace             |  |
|                        | Not Applicable     |                     | Not assessed                | Other               |  |
|                        |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| <b>EXPANSION JOINT</b> | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                        | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                        | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                        | None               | 0                   | assessed                    | Replace             |  |
|                        | Not Applicable     |                     | Not assessed                | Other               |  |
|                        |                    |                     | <b>Total Estimated Cost</b> |                     |  |
| <b>BEARING</b>         | Immediate          | 3                   | Fully                       | Repair damage       |  |
|                        | Within 2 years     | 2                   | assessed                    | Protective measures |  |
|                        | Within 10 years    | 1                   | Partially                   | Strengthen          |  |
|                        | None               | 0                   | assessed                    | Replace             |  |
|                        | Not Applicable     |                     | Not assessed                | Other               |  |
|                        |                    |                     | <b>Total Estimated Cost</b> |                     |  |

Total Cost: \_\_\_\_\_

**Department of Public Works and Highways**  
**BRIDGE MANAGEMENT SYSTEM**

**Abutment Element-Condition**



**ABUTMENT ELEMENT - CONDITION (1/4)**

|                     |    |
|---------------------|----|
| <b>ABUTMENT No.</b> | A1 |
|---------------------|----|

**Bridge ID**

**Bridge Name**

| ATTRIBUTE              | ATTENTION REQUIRED |          | LEVEL OF INSPECTION |                          | TYPE OF MAJOR MAINTENANCE   | ESTIMATED COST (P) | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|------------------------|--------------------|----------|---------------------|--------------------------|-----------------------------|--------------------|--|
|                        |                    |          |                     |                          |                             |                    |  |
| <b>MAIN STRUCTURE</b>  | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            |                          | <b>Total Estimated Cost</b> |                    |  |
| <b>FOUNDATION</b>      | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            |                          | <b>Total Estimated Cost</b> |                    |  |
| <b>EXPANSION JOINT</b> | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            |                          | <b>Total Estimated Cost</b> |                    |  |
| <b>BEARING</b>         | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            |                          | <b>Total Estimated Cost</b> |                    |  |
| <b>LEFT WING WALL</b>  | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            |                          | <b>Total Estimated Cost</b> |                    |  |

**ABUTMENT ELEMENT - CONDITION (2/4)**

**ABUTMENT No.** A1

**Bridge ID**

**Bridge Name** Magapit

| ATTRIBUTE              | ATTENTION REQUIRED | LEVEL OF INSPECTION | TYPE OF MAJOR MAINTENANCE | ESTIMATED COST (P)          | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|------------------------|--------------------|---------------------|---------------------------|-----------------------------|--|
| <b>RIGHT WING WALL</b> | Immediate          | <b>3</b>            | Fully                     | Repair damage               |  |
|                        | Within 2 years     | <b>2</b>            | assessed                  | Protective measures         |  |
|                        | Within 10 years    | <b>1</b>            | Partially                 | Strengthen                  |  |
|                        | None               | <b>0</b>            | assessed                  | Replace                     |  |
|                        | Not Applicable     |                     | Not assessed              | Other                       |  |
|                        |                    |                     |                           | <b>Total Estimated Cost</b> |  |
| <b>BRIDGE APPROACH</b> | Immediate          | <b>3</b>            | Fully                     | Repair damage               |  |
|                        | Within 2 years     | <b>2</b>            | assessed                  | Protective measures         |  |
|                        | Within 10 years    | <b>1</b>            | Partially                 | Strengthen                  |  |
|                        | None               | <b>0</b>            | assessed                  | Replace                     |  |
|                        | Not Applicable     |                     | Not assessed              | Other                       |  |
|                        |                    |                     |                           | <b>Total Estimated Cost</b> |  |

**ABUTMENT ELEMENT - CONDITION (3/4)**

|                     |    |
|---------------------|----|
| <b>ABUTMENT No.</b> | A2 |
|---------------------|----|

**Bridge ID**

**Bridge Name**

| ATTRIBUTE              | ATTENTION REQUIRED |          | LEVEL OF INSPECTION |                          | TYPE OF MAJOR MAINTENANCE   | ESTIMATED COST (P) | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|------------------------|--------------------|----------|---------------------|--------------------------|-----------------------------|--------------------|--|
|                        |                    |          |                     |                          |                             |                    |  |
| <b>MAIN STRUCTURE</b>  | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            |                          | <b>Total Estimated Cost</b> |                    |  |
| <b>FOUNDATION</b>      | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            |                          | <b>Total Estimated Cost</b> |                    |  |
| <b>EXPANSION JOINT</b> | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            |                          | <b>Total Estimated Cost</b> |                    |  |
| <b>BEARING</b>         | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            |                          | <b>Total Estimated Cost</b> |                    |  |
| <b>LEFT WING WALL</b>  | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            |                          | <b>Total Estimated Cost</b> |                    |  |

**ABUTMENT ELEMENT - CONDITION (4/4)**

**ABUTMENT No.** A2

**Bridge ID**

**Bridge Name** Magapit

| ATTRIBUTE              | ATTENTION REQUIRED | LEVEL OF INSPECTION | TYPE OF MAJOR MAINTENANCE | ESTIMATED COST (P)          | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|------------------------|--------------------|---------------------|---------------------------|-----------------------------|--|
| <b>RIGHT WING WALL</b> | Immediate          | <b>3</b>            | Fully                     | Repair damage               |  |
|                        | Within 2 years     | <b>2</b>            | assessed                  | Protective measures         |  |
|                        | Within 10 years    | <b>1</b>            | Partially                 | Strengthen                  |  |
|                        | None               | <b>0</b>            | assessed                  | Replace                     |  |
|                        | Not Applicable     |                     | Not assessed              | Other                       |  |
|                        |                    |                     |                           | <b>Total Estimated Cost</b> |  |
| <b>BRIDGE APPROACH</b> | Immediate          | <b>3</b>            | Fully                     | Repair damage               |  |
|                        | Within 2 years     | <b>2</b>            | assessed                  | Protective measures         |  |
|                        | Within 10 years    | <b>1</b>            | Partially                 | Strengthen                  |  |
|                        | None               | <b>0</b>            | assessed                  | Replace                     |  |
|                        | Not Applicable     |                     | Not assessed              | Other                       |  |
|                        |                    |                     |                           | <b>Total Estimated Cost</b> |  |

**Department of Public Works and Highways**  
**BRIDGE MANAGEMENT SYSTEM**

**Anchorage Element-Condition**



**ANCHORAGE ELEMENT - CONDITION (1/2)**

|                      |          |
|----------------------|----------|
| <b>ANCHORAGE No.</b> | Anchor 1 |
|----------------------|----------|

**Bridge ID**

**Bridge Name**

| ATTRIBUTE              | ATTENTION REQUIRED |          | LEVEL OF INSPECTION |                          | TYPE OF MAJOR MAINTENANCE   | ESTIMATED COST (P) | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|------------------------|--------------------|----------|---------------------|--------------------------|-----------------------------|--------------------|--|
|                        |                    |          |                     |                          |                             |                    |  |
| <b>MAIN STRUCTURE</b>  | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            | <input type="checkbox"/> | <b>Total Estimated Cost</b> |                    |  |
| <b>FOUNDATION</b>      | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            | <input type="checkbox"/> | <b>Total Estimated Cost</b> |                    |  |
| <b>ANCHORAGE HOUSE</b> | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            | <input type="checkbox"/> | <b>Total Estimated Cost</b> |                    |  |

**ANCHORAGE ELEMENT - CONDITION (1/2)**

|                      |          |
|----------------------|----------|
| <b>ANCHORAGE No.</b> | Anchor 2 |
|----------------------|----------|

**Bridge ID**

**Bridge Name**

| ATTRIBUTE              | ATTENTION REQUIRED |          | LEVEL OF INSPECTION |                          | TYPE OF MAJOR MAINTENANCE   | ESTIMATED COST (P) | DESCRIBE DEFECTS AND RECOMMENDED WORKS |
|------------------------|--------------------|----------|---------------------|--------------------------|-----------------------------|--------------------|--|
|                        |                    |          |                     |                          |                             |                    |  |
| <b>MAIN STRUCTURE</b>  | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            | <input type="checkbox"/> | <b>Total Estimated Cost</b> |                    |  |
| <b>FOUNDATION</b>      | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            | <input type="checkbox"/> | <b>Total Estimated Cost</b> |                    |  |
| <b>ANCHORAGE HOUSE</b> | Immediate          | <b>3</b> | Fully               | <input type="checkbox"/> | Repair damage               |                    |  |
|                        | Within 2 years     | <b>2</b> | assessed            | <input type="checkbox"/> | Protective measures         |                    |  |
|                        | Within 10 years    | <b>1</b> | Partially           | <input type="checkbox"/> | Strengthen                  |                    |  |
|                        | None               | <b>0</b> | assessed            | <input type="checkbox"/> | Replace                     |                    |  |
|                        | Not Applicable     |          | Not                 | <input type="checkbox"/> | Other                       |                    |  |
|                        |                    |          | assessed            | <input type="checkbox"/> | <b>Total Estimated Cost</b> |                    |  |

**Department of Public Works and Highways**  
**BRIDGE MANAGEMENT SYSTEM**

**Span Element-Damage Rating**



Bridge ID

Bridge Name

Span Element - Damage Rating

| SPAN No.   |                            | 1                  |          |    |               |                     |    |    |    |    |    |
|--|----------------------------|--------------------|----------|----|---------------|---------------------|----|----|----|----|----|
| Type of Material                                 | Type of Damage             | Severity of Defect | Affected |    | Damage Rating | Attrib. Cond. State |    |    |    |    |    |
|  |                            |                    | Unit     | %  |               |                     |    |    |    |    |    |
| <b>DECK</b>                                      |                            |                    |          |    |               |                     |    |    |    |    |    |
| Concrete Slab                                    | Cracking                   |                    |          |    |               |                     |    |    |    |    |    |
|  | Spalling/Scaling/Disinteg. |                    |          |    |               |                     |    |    |    |    |    |
|  | Delamination               |                    |          |    |               |                     |    |    |    |    |    |
|  | Rebar exposure/corrosion   |                    |          |    |               |                     |    |    |    |    |    |
|  | Honeycomb                  |                    |          |    |               |                     |    |    |    |    |    |
|  | Water leakage              |                    |          |    |               |                     |    |    |    |    |    |
| <b>SECONDARY MEMBER (SM) / OTHER MEMBER (OM)</b> |                            |                    |          |    |               |                     |    |    |    |    |    |
| SM   | OM                         | SM                 | OM       | SM | OM            | SM                  | OM | SM | OM | SM | OM |
| Steel  | Corrosion                  |                    |          |    |               |                     |    |    |    |    |    |
|  | Cracking                   |                    |          |    |               |                     |    |    |    |    |    |
|  | Deformation/Buckling       |                    |          |    |               |                     |    |    |    |    |    |
|  | Abnormal Vibration         |                    |          |    |               |                     |    |    |    |    |    |
|  | loose connection           |                    |          |    |               |                     |    |    |    |    |    |
| <b>ASPHALT WEARING SURFACE</b>                   |                            |                    |          |    |               |                     |    |    |    |    |    |
| Asphalt  | Potholes                   |                    |          |    |               |                     |    |    |    |    |    |
|  | Shoving                    |                    |          |    |               |                     |    |    |    |    |    |
|  | Rutting                    |                    |          |    |               |                     |    |    |    |    |    |
|  | Cracking                   |                    |          |    |               |                     |    |    |    |    |    |
|  | Raveling                   |                    |          |    |               |                     |    |    |    |    |    |

| Type of Material                              | Type of Damage             | Severity of Defect | Affected |    | Damage Rating | Attrib. Cond. State |    |    |    |    |    |
|---|----------------------------|--------------------|----------|----|---------------|---------------------|----|----|----|----|----|
|   |                            |                    | Unit     | %  |               |                     |    |    |    |    |    |
| <b>MAIN MEMBER</b>                            |                            |                    |          |    |               |                     |    |    |    |    |    |
| Concrete Girder                               | Cracking                   |                    |          |    |               |                     |    |    |    |    |    |
|   | Spalling/Scaling/Disinteg. |                    |          |    |               |                     |    |    |    |    |    |
|   | Delamination               |                    |          |    |               |                     |    |    |    |    |    |
|   | Rebar exposure/corrosion   |                    |          |    |               |                     |    |    |    |    |    |
|   | Honeycomb                  |                    |          |    |               |                     |    |    |    |    |    |
|   | Water leakage              |                    |          |    |               |                     |    |    |    |    |    |
| <b>LEFT RAILING (LR) / RIGHT RAILING (RR)</b> |                            |                    |          |    |               |                     |    |    |    |    |    |
| LR  | RR                         | LR                 | RR       | LR | RR            | LR                  | RR | LR | RR | LR | RR |
| Concrete                                      | Cracking                   |                    |          |    |               |                     |    |    |    |    |    |
|   | Spalling/Scaling/Disinteg. |                    |          |    |               |                     |    |    |    |    |    |
|   | Delamination               |                    |          |    |               |                     |    |    |    |    |    |
|   | Rebar exposure/corrosion   |                    |          |    |               |                     |    |    |    |    |    |
|   | Honeycomb                  |                    |          |    |               |                     |    |    |    |    |    |
|   | Water leakage              |                    |          |    |               |                     |    |    |    |    |    |

| SPAN No.   |                            | 2                  |          |    |               |                     |    |    |    |    |    |
|--|----------------------------|--------------------|----------|----|---------------|---------------------|----|----|----|----|----|
| Type of Material                                 | Type of Damage             | Severity of Defect | Affected |    | Damage Rating | Attrib. Cond. State |    |    |    |    |    |
|  |                            |                    | Unit     | %  |               |                     |    |    |    |    |    |
| <b>DECK</b>                                      |                            |                    |          |    |               |                     |    |    |    |    |    |
| Concrete Slab                                    | Cracking                   |                    |          |    |               |                     |    |    |    |    |    |
|  | Spalling/Scaling/Disinteg. |                    |          |    |               |                     |    |    |    |    |    |
|  | Delamination               |                    |          |    |               |                     |    |    |    |    |    |
|  | Rebar exposure/corrosion   |                    |          |    |               |                     |    |    |    |    |    |
|  | Honeycomb                  |                    |          |    |               |                     |    |    |    |    |    |
|  | Water leakage              |                    |          |    |               |                     |    |    |    |    |    |
| <b>SECONDARY MEMBER (SM) / OTHER MEMBER (OM)</b> |                            |                    |          |    |               |                     |    |    |    |    |    |
| SM   | OM                         | SM                 | OM       | SM | OM            | SM                  | OM | SM | OM | SM | OM |
| Steel  | Corrosion                  |                    |          |    |               |                     |    |    |    |    |    |
|  | Cracking                   |                    |          |    |               |                     |    |    |    |    |    |
|  | Deformation/Buckling       |                    |          |    |               |                     |    |    |    |    |    |
|  | Abnormal Vibration         |                    |          |    |               |                     |    |    |    |    |    |
|  | loose connection           |                    |          |    |               |                     |    |    |    |    |    |

| Type of Material                              | Type of Damage         | Severity of Defect | Affected |    | Damage Rating | Attrib. Cond. State |    |    |    |    |    |
|---|------------------------|--------------------|----------|----|---------------|---------------------|----|----|----|----|----|
|   |                        |                    | Unit     | %  |               |                     |    |    |    |    |    |
| <b>MAIN MEMBER</b>                            |                        |                    |          |    |               |                     |    |    |    |    |    |
| Steel Girder                                  | Corrosion              |                    |          |    |               |                     |    |    |    |    |    |
|   | Cracking               |                    |          |    |               |                     |    |    |    |    |    |
|   | Deformation/Buckling   |                    |          |    |               |                     |    |    |    |    |    |
|   | Abnormal Vibration     |                    |          |    |               |                     |    |    |    |    |    |
|   | loose connection       |                    |          |    |               |                     |    |    |    |    |    |
| <b>LEFT RAILING (LR) / RIGHT RAILING (RR)</b> |                        |                    |          |    |               |                     |    |    |    |    |    |
| LR  | RR                     | LR                 | RR       | LR | RR            | LR                  | RR | LR | RR | LR | RR |
| Steel   | Corrosion              |                    |          |    |               |                     |    |    |    |    |    |
|   | Loose connection       |                    |          |    |               |                     |    |    |    |    |    |
|   | Impact/Accident damage |                    |          |    |               |                     |    |    |    |    |    |
|   | Paint peel off         |                    |          |    |               |                     |    |    |    |    |    |
| <b>ASPHALT WEARING SURFACE</b>                |                        |                    |          |    |               |                     |    |    |    |    |    |
| Asphalt                                       | Potholes               |                    |          |    |               |                     |    |    |    |    |    |
|   | Shoving                |                    |          |    |               |                     |    |    |    |    |    |
|   | Rutting                |                    |          |    |               |                     |    |    |    |    |    |
|   | Cracking               |                    |          |    |               |                     |    |    |    |    |    |
|   | Raveling               |                    |          |    |               |                     |    |    |    |    |    |

Bridge ID

Bridge Name

Span Element - Damage Rating

| SPAN No.   |                            | 3                  |          |    |               |                     |    |
|--|----------------------------|--------------------|----------|----|---------------|---------------------|----|
| Type of Material                                 | Type of Damage             | Severity of Defect | Affected |    | Damage Rating | Attrib. Cond. State |    |
|  |                            |                    | Unit     | %  |               |                     |    |
| <b>DECK</b>                                      |                            |                    |          |    |               |                     |    |
| Concrete Slab                                    | Cracking                   |                    |          |    |               |                     |    |
|  | Spalling/Scaling/Disinteg. |                    |          |    |               |                     |    |
|  | Delamination               |                    |          |    |               |                     |    |
|  | Rebar exposure/corrosion   |                    |          |    |               |                     |    |
|  | Honeycomb                  |                    |          |    |               |                     |    |
|  | Water leakage              |                    |          |    |               |                     |    |
| <b>SECONDARY MEMBER (SM) / OTHER MEMBER (OM)</b> |                            |                    |          |    |               |                     |    |
| SM   | OM                         | SM                 | OM       | SM | OM            | SM                  | OM |
| Steel  | Corrosion                  |                    |          |    |               |                     |    |
|  | Cracking                   |                    |          |    |               |                     |    |
|  | Deformation/Buckling       |                    |          |    |               |                     |    |
|  | Abnormal Vibration         |                    |          |    |               |                     |    |
|  | loose connection           |                    |          |    |               |                     |    |
| <b>ASPHALT WEARING SURFACE</b>                   |                            |                    |          |    |               |                     |    |
| Asphalt  | Potholes                   |                    |          |    |               |                     |    |
|  | Shoving                    |                    |          |    |               |                     |    |
|  | Rutting                    |                    |          |    |               |                     |    |
|  | Cracking                   |                    |          |    |               |                     |    |
|  | Raveling                   |                    |          |    |               |                     |    |

| Type of Material                              | Type of Damage         | Severity of Defect | Affected |    | Damage Rating | Attrib. Cond. State |    |
|---|------------------------|--------------------|----------|----|---------------|---------------------|----|
|   |                        |                    | Unit     | %  |               |                     |    |
| <b>MAIN MEMBER</b>                            |                        |                    |          |    |               |                     |    |
| Steel Girder                                  | Corrosion              |                    |          |    |               |                     |    |
|   | Cracking               |                    |          |    |               |                     |    |
|   | Deformation/Buckling   |                    |          |    |               |                     |    |
|   | Abnormal Vibration     |                    |          |    |               |                     |    |
|   | loose connection       |                    |          |    |               |                     |    |
| Steel Tower                                   | Corrosion              |                    |          |    |               |                     |    |
|   | Cracking               |                    |          |    |               |                     |    |
|   | Deformation/Buckling   |                    |          |    |               |                     |    |
|   | loose connection       |                    |          |    |               |                     |    |
| <b>LEFT RAILING (LR) / RIGHT RAILING (RR)</b> |                        |                    |          |    |               |                     |    |
| LR  | RR                     | LR                 | RR       | LR | RR            | LR                  | RR |
| Steel   | Corrosion              |                    |          |    |               |                     |    |
|   | Loose connection       |                    |          |    |               |                     |    |
|   | Impact/Accident damage |                    |          |    |               |                     |    |
|   | Paint peel off         |                    |          |    |               |                     |    |

| SPAN No.   |                            | 4                  |          |    |               |                     |    |
|--|----------------------------|--------------------|----------|----|---------------|---------------------|----|
| Type of Material                                 | Type of Damage             | Severity of Defect | Affected |    | Damage Rating | Attrib. Cond. State |    |
|  |                            |                    | Unit     | %  |               |                     |    |
| <b>DECK</b>                                      |                            |                    |          |    |               |                     |    |
| Concrete Slab                                    | Cracking                   |                    |          |    |               |                     |    |
|  | Spalling/Scaling/Disinteg. |                    |          |    |               |                     |    |
|  | Delamination               |                    |          |    |               |                     |    |
|  | Rebar exposure/corrosion   |                    |          |    |               |                     |    |
|  | Honeycomb                  |                    |          |    |               |                     |    |
|  | Water leakage              |                    |          |    |               |                     |    |
| <b>SECONDARY MEMBER (SM) / OTHER MEMBER (OM)</b> |                            |                    |          |    |               |                     |    |
| SM   | OM                         | SM                 | OM       | SM | OM            | SM                  | OM |
| Steel  | Corrosion                  |                    |          |    |               |                     |    |
|  | Cracking                   |                    |          |    |               |                     |    |
|  | Deformation/Buckling       |                    |          |    |               |                     |    |
|  | Abnormal Vibration         |                    |          |    |               |                     |    |
|  | loose connection           |                    |          |    |               |                     |    |

| Type of Material                              | Type of Damage         | Severity of Defect | Affected |    | Damage Rating | Attrib. Cond. State |    |
|---|------------------------|--------------------|----------|----|---------------|---------------------|----|
|   |                        |                    | Unit     | %  |               |                     |    |
| <b>MAIN MEMBER</b>                            |                        |                    |          |    |               |                     |    |
| Steel Girder                                  | Corrosion              |                    |          |    |               |                     |    |
|   | Cracking               |                    |          |    |               |                     |    |
|   | Deformation/Buckling   |                    |          |    |               |                     |    |
|   | Abnormal Vibration     |                    |          |    |               |                     |    |
|   | loose connection       |                    |          |    |               |                     |    |
| <b>LEFT RAILING (LR) / RIGHT RAILING (RR)</b> |                        |                    |          |    |               |                     |    |
| LR  | RR                     | LR                 | RR       | LR | RR            | LR                  | RR |
| Steel   | Corrosion              |                    |          |    |               |                     |    |
|   | Loose connection       |                    |          |    |               |                     |    |
|   | Impact/Accident damage |                    |          |    |               |                     |    |
|   | Paint peel off         |                    |          |    |               |                     |    |
| <b>ASPHALT WEARING SURFACE</b>                |                        |                    |          |    |               |                     |    |
| Asphalt                                       | Potholes               |                    |          |    |               |                     |    |
|   | Shoving                |                    |          |    |               |                     |    |
|   | Rutting                |                    |          |    |               |                     |    |
|   | Cracking               |                    |          |    |               |                     |    |
|   | Raveling               |                    |          |    |               |                     |    |

**Department of Public Works and Highways**  
**BRIDGE MANAGEMENT SYSTEM**

**Cable Element-Damage Rating**



Bridge ID

Bridge Name

Cable element - Damage Rating

**CABLE GROUP No.**

| Type of Material      | Type of Damage        | Severity of Defect | Affected |     | Damage Rating | Attrib. Cond. State |
|-----------------------|-----------------------|--------------------|----------|-----|---------------|---------------------|
|                       |                       |                    | Unit     | %   |               |                     |
| <b>MAIN MEMBER</b>    |                       |                    |          |     |               |                     |
| Steel<br>Tower Saddle | Corrosion             |                    | ---      | --- |               |                     |
|                       | Missing bolts         |                    | ---      | --- |               |                     |
|                       | Deformation/Buckling  |                    | ---      | --- |               |                     |
|                       | Water leakage         |                    | ---      | --- |               |                     |
|                       |                       |                    |          | --- | ---           |                     |
| Cable                 | Vibration             |                    | ---      | --- |               |                     |
|                       | Alignment/Deformation |                    | ---      | --- |               |                     |
|                       | Crack                 |                    | ---      | --- |               |                     |
|                       | Delamination          |                    | ---      | --- |               |                     |
|                       | Water leakage         |                    | ---      | --- |               |                     |

| Type of Material                           | Type of Damage       | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State |
|--|----------------------|--------------------|----------|---|---------------|---------------------|
|  |                      |                    | Unit     | % |               |                     |
| <b>MAIN MEMBER</b>                         |                      |                    |          |   |               |                     |
| Steel<br>Splay Saddle                      | Corrosion            |                    |          |   |               |                     |
|  | Missing bolts        |                    |          |   |               |                     |
|  | Deformation/Buckling |                    |          |   |               |                     |
| Steel<br>Anchor Bolt<br>At Anchor<br>Block | Water leakage        |                    |          |   |               |                     |
|  | Corrosion            |                    |          |   |               |                     |
|  | Missing bolts        |                    |          |   |               |                     |
|  | Deformation/Buckling |                    |          |   |               |                     |

**CABLE GROUP No.**

| Type of Material      | Type of Damage        | Severity of Defect | Affected |     | Damage Rating | Attrib. Cond. State |
|-----------------------|-----------------------|--------------------|----------|-----|---------------|---------------------|
|                       |                       |                    | Unit     | %   |               |                     |
| <b>MAIN MEMBER</b>    |                       |                    |          |     |               |                     |
| Steel<br>Tower Saddle | Corrosion             |                    | ---      | --- |               |                     |
|                       | Missing bolts         |                    | ---      | --- |               |                     |
|                       | Deformation/Buckling  |                    | ---      | --- |               |                     |
|                       | Water leakage         |                    | ---      | --- |               |                     |
|                       |                       |                    |          | --- | ---           |                     |
| Cable                 | Vibration             |                    | ---      | --- |               |                     |
|                       | Alignment/Deformation |                    | ---      | --- |               |                     |
|                       | Crack                 |                    | ---      | --- |               |                     |
|                       | Delamination          |                    | ---      | --- |               |                     |
|                       | Water leakage         |                    | ---      | --- |               |                     |

| Type of Material                           | Type of Damage       | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State |
|--|----------------------|--------------------|----------|---|---------------|---------------------|
|  |                      |                    | Unit     | % |               |                     |
| <b>MAIN MEMBER</b>                         |                      |                    |          |   |               |                     |
| Steel<br>Splay Saddle                      | Corrosion            |                    |          |   |               |                     |
|  | Missing bolts        |                    |          |   |               |                     |
|  | Deformation/Buckling |                    |          |   |               |                     |
| Steel<br>Anchor Bolt<br>At Anchor<br>Block | Water leakage        |                    |          |   |               |                     |
|  | Corrosion            |                    |          |   |               |                     |
|  | Missing bolts        |                    |          |   |               |                     |
|  | Deformation/Buckling |                    |          |   |               |                     |

Bridge ID

Bridge Name

Cable element - Damage Rating

**HANGER ROPE No.**  **Left**

| Type of Material                | Type of Damage        | Severity of Defect | Affected |     | Damage Rating | Attrib. Cond. State |
|---------------------------------|-----------------------|--------------------|----------|-----|---------------|---------------------|
|                                 |                       |                    | Unit     | %   |               |                     |
| <b>MAIN MEMBER</b>              |                       |                    |          |     |               |                     |
| Steel<br>Cable Band<br>At Cable | Corrosion             |                    | ---      | --- |               |                     |
|                                 | Missing bolts         |                    | ---      | --- |               |                     |
|                                 | Deformation/Buckling  |                    | ---      | --- |               |                     |
|                                 | Water leakage         |                    | ---      | --- |               |                     |
|                                 |                       |                    |          | --- | ---           |                     |
| Hanger Rope                     | Vibration             |                    | ---      | --- |               |                     |
|                                 | Alignment/Deformation |                    | ---      | --- |               |                     |
|                                 | Crack                 |                    | ---      | --- |               |                     |
|                                 | Delamination          |                    | ---      | --- |               |                     |
|                                 | Water leakage         |                    | ---      | --- |               |                     |

| Type of Material                 | Type of Damage       | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State |
|----------------------------------|----------------------|--------------------|----------|---|---------------|---------------------|
|                                  |                      |                    | Unit     | % |               |                     |
| <b>MAIN MEMBER</b>               |                      |                    |          |   |               |                     |
| Steel<br>Cable Band<br>At Girder | Corrosion            |                    |          |   |               |                     |
|                                  | Missing bolts        |                    |          |   |               |                     |
|                                  | Deformation/Buckling |                    |          |   |               |                     |
|                                  | Water leakage        |                    |          |   |               |                     |

**HANGER ROPE No.**  **Right**

| Type of Material                | Type of Damage        | Severity of Defect | Affected |     | Damage Rating | Attrib. Cond. State |
|---------------------------------|-----------------------|--------------------|----------|-----|---------------|---------------------|
|                                 |                       |                    | Unit     | %   |               |                     |
| <b>MAIN MEMBER</b>              |                       |                    |          |     |               |                     |
| Steel<br>Cable Band<br>At Cable | Corrosion             |                    | ---      | --- |               |                     |
|                                 | Missing bolts         |                    | ---      | --- |               |                     |
|                                 | Deformation/Buckling  |                    | ---      | --- |               |                     |
|                                 | Water leakage         |                    | ---      | --- |               |                     |
|                                 |                       |                    |          | --- | ---           |                     |
| Hanger Rope                     | Vibration             |                    | ---      | --- |               |                     |
|                                 | Alignment/Deformation |                    | ---      | --- |               |                     |
|                                 | Crack                 |                    | ---      | --- |               |                     |
|                                 | Delamination          |                    | ---      | --- |               |                     |
|                                 | Water leakage         |                    | ---      | --- |               |                     |

| Type of Material                 | Type of Damage       | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State |
|----------------------------------|----------------------|--------------------|----------|---|---------------|---------------------|
|                                  |                      |                    | Unit     | % |               |                     |
| <b>MAIN MEMBER</b>               |                      |                    |          |   |               |                     |
| Steel<br>Cable Band<br>At Girder | Corrosion            |                    |          |   |               |                     |
|                                  | Missing bolts        |                    |          |   |               |                     |
|                                  | Deformation/Buckling |                    |          |   |               |                     |
|                                  | Water leakage        |                    |          |   |               |                     |

**Department of Public Works and Highways**  
**BRIDGE MANAGEMENT SYSTEM**

**Pier Element-Damage Rating**



Bridge ID

Bridge Name

Pier Element - Damage Rating

| PIER No.               |                            | P1                 |          |   |               |                     |                        |                         |                    |          |   |               |                     |
|------------------------|----------------------------|--------------------|----------|---|---------------|---------------------|------------------------|-------------------------|--------------------|----------|---|---------------|---------------------|
| Type of Material       | Type of Damage             | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State | Type of Material       | Type of Damage          | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State |
|                        |                            |                    | Unit     | % |               |                     |                        |                         |                    | Unit     | % |               |                     |
| <b>MAIN STRUCTURE</b>  |                            |                    |          |   |               |                     | <b>EXPANSION JOINT</b> |                         |                    |          |   |               |                     |
| Concrete               | Cracking                   |                    |          |   |               |                     | Steel                  | Water leakage           |                    |          |   |               |                     |
|                        | Spalling/Scaling/Disinteg. |                    |          |   |               |                     |                        | Abnormal space/noise    |                    |          |   |               |                     |
|                        | Delamination               |                    |          |   |               |                     |                        | Difference in elevation |                    |          |   |               |                     |
|                        | Rebar exposure/corrosion   |                    |          |   |               |                     |                        | Displacement            |                    |          |   |               |                     |
|                        | Honeycomb                  |                    |          |   |               |                     |                        | Rupture                 |                    |          |   |               |                     |
|                        | Tilt/Settlement            |                    |          |   |               |                     |                        |                         |                    |          |   |               |                     |
| <b>EXPANSION JOINT</b> |                            |                    |          |   |               |                     | <b>BEARING</b>         |                         |                    |          |   |               |                     |
|                        |                            |                    |          |   |               |                     | Steel                  | Corrosion               |                    |          |   |               |                     |
|                        |                            |                    |          |   |               |                     |                        | Loose connection        |                    |          |   |               |                     |
|                        |                            |                    |          |   |               |                     |                        | Abnormal displacement   |                    |          |   |               |                     |
|                        |                            |                    |          |   |               |                     |                        | Paint deterioration     |                    |          |   |               |                     |
|                        |                            |                    |          |   |               |                     |                        | Bed (support) damage    |                    |          |   |               |                     |

| PIER No.               |                            | P2                 |          |   |               |                     |                        |                         |                    |          |   |               |                     |
|------------------------|----------------------------|--------------------|----------|---|---------------|---------------------|------------------------|-------------------------|--------------------|----------|---|---------------|---------------------|
| Type of Material       | Type of Damage             | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State | Type of Material       | Type of Damage          | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State |
|                        |                            |                    | Unit     | % |               |                     |                        |                         |                    | Unit     | % |               |                     |
| <b>MAIN STRUCTURE</b>  |                            |                    |          |   |               |                     | <b>EXPANSION JOINT</b> |                         |                    |          |   |               |                     |
| Concrete               | Cracking                   |                    |          |   |               |                     | Steel                  | Water leakage           |                    |          |   |               |                     |
|                        | Spalling/Scaling/Disinteg. |                    |          |   |               |                     |                        | Abnormal space/noise    |                    |          |   |               |                     |
|                        | Delamination               |                    |          |   |               |                     |                        | Difference in elevation |                    |          |   |               |                     |
|                        | Rebar exposure/corrosion   |                    |          |   |               |                     |                        | Displacement            |                    |          |   |               |                     |
|                        | Honeycomb                  |                    |          |   |               |                     |                        | Rupture                 |                    |          |   |               |                     |
|                        | Tilt/Settlement            |                    |          |   |               |                     |                        |                         |                    |          |   |               |                     |
| <b>EXPANSION JOINT</b> |                            |                    |          |   |               |                     | <b>BEARING</b>         |                         |                    |          |   |               |                     |
|                        |                            |                    |          |   |               |                     | Steel                  | Corrosion               |                    |          |   |               |                     |
|                        |                            |                    |          |   |               |                     |                        | Loose connection        |                    |          |   |               |                     |
|                        |                            |                    |          |   |               |                     |                        | Abnormal displacement   |                    |          |   |               |                     |
|                        |                            |                    |          |   |               |                     |                        | Paint deterioration     |                    |          |   |               |                     |
|                        |                            |                    |          |   |               |                     |                        | Bed (support) damage    |                    |          |   |               |                     |

Bridge ID

Bridge Name

Pier Element - Damage Rating

| PIER No.              |                            | P3                 |          |   |               |                     |                        |                         |                    |          |   |               |                     |
|-----------------------|----------------------------|--------------------|----------|---|---------------|---------------------|------------------------|-------------------------|--------------------|----------|---|---------------|---------------------|
| Type of Material      | Type of Damage             | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State | Type of Material       | Type of Damage          | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State |
|                       |                            |                    | Unit     | % |               |                     |                        |                         |                    | Unit     | % |               |                     |
| <b>MAIN STRUCTURE</b> |                            |                    |          |   |               |                     | <b>EXPANSION JOINT</b> |                         |                    |          |   |               |                     |
| Concrete              | Cracking                   |                    |          |   |               |                     | Steel                  | Water leakage           |                    |          |   |               |                     |
|                       | Spalling/Scaling/Disinteg. |                    |          |   |               |                     |                        | Abnormal space/noise    |                    |          |   |               |                     |
|                       | Delamination               |                    |          |   |               |                     |                        | Difference in elevation |                    |          |   |               |                     |
|                       | Rebar exposure/corrosion   |                    |          |   |               |                     |                        | Displacement            |                    |          |   |               |                     |
|                       | Honeycomb                  |                    |          |   |               |                     |                        | Rupture                 |                    |          |   |               |                     |
|                       | Tilt/Settlement            |                    |          |   |               |                     | <b>BEARING</b>         |                         |                    |          |   |               |                     |
|                       |                            |                    |          |   |               | Steel               | Corrosion              |                         |                    |          |   |               |                     |
|                       |                            |                    |          |   |               |                     | Loose connection       |                         |                    |          |   |               |                     |
|                       |                            |                    |          |   |               |                     | Abnormal displacement  |                         |                    |          |   |               |                     |
|                       |                            |                    |          |   |               |                     | Paint deterioration    |                         |                    |          |   |               |                     |
|                       |                            |                    |          |   |               |                     | Bed (support) damage   |                         |                    |          |   |               |                     |

**Department of Public Works and Highways**  
**BRIDGE MANAGEMENT SYSTEM**

**Abutment Element-Damage Rating**



ABUTMENT No. **A1** (one set of forms for each abutment)

Bridge ID

Bridge Name **Magapit**

Abutment Element - Damage Rating

| Type of Material      | Type of Damage             | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State | Type of Material                                  | Type of Damage          | Severity of Defect | Affected                 |    | Damage Rating | Attrib. Cond. State |    |    |    |    |    |  |
|-----------------------|----------------------------|--------------------|----------|---|---------------|---------------------|---|-------------------------|--------------------|--------------------------|----|---------------|---------------------|----|----|----|----|----|--|
|                       |                            |                    | Unit     | % |               |                     |   |                         |                    | Unit                     | %  |               |                     |    |    |    |    |    |  |
| <b>MAIN STRUCTURE</b> |                            |                    |          |   |               |                     | <b>EXPANSION JOINT</b>                            |                         |                    |                          |    |               |                     |    |    |    |    |    |  |
| Concrete              | Cracking                   |                    |          |   |               |                     | Steel   | Water leakage           |                    |                          |    |               |                     |    |    |    |    |    |  |
|                       | Spalling/Scaling/Disinteg. |                    |          |   |               |                     |   | Abnormal space/noise    |                    |                          |    |               |                     |    |    |    |    |    |  |
|                       | Delamination               |                    |          |   |               |                     |   | Difference in elevation |                    |                          |    |               |                     |    |    |    |    |    |  |
|                       | Rebar exposure/corrosion   |                    |          |   |               |                     |   | Displacement            |                    |                          |    |               |                     |    |    |    |    |    |  |
|                       | Honecomb                   |                    |          |   |               |                     |   | Rupture                 |                    |                          |    |               |                     |    |    |    |    |    |  |
|                       | Tilt/Settlement            |                    |          |   |               |                     |   |                         |                    |                          |    |               |                     |    |    |    |    |    |  |
| <b>FOUNDATION</b>     |                            |                    |          |   |               |                     | <b>LEFT WING WALL (LW) / RIGHT WING WALL (RW)</b> |                         |                    |                          |    |               |                     |    |    |    |    |    |  |
| Concrete              | Cracking                   |                    |          |   |               |                     | LW  | RW                      |                    | LW                       | RW |               | LW                  | RW | LW | RW | LW | RW |  |
|                       | Spalling/Scaling/Disinteg. |                    |          |   |               |                     | Concrete  |                         |                    | Cracking                 |    |               |                     |    |    |    |    |    |  |
|                       | Delamination               |                    |          |   |               |                     |   |                         |                    | Delamination/Disinteg.   |    |               |                     |    |    |    |    |    |  |
|                       | Rebar exposure/corrosion   |                    |          |   |               |                     |   |                         |                    | Rebar exposure/corrosion |    |               |                     |    |    |    |    |    |  |
|                       | Honecomb                   |                    |          |   |               |                     |   |                         |                    |                          |    |               |                     |    |    |    |    |    |  |
|                       | Tilt/Settlement            |                    |          |   |               |                     |   |                         |                    |                          |    |               |                     |    |    |    |    |    |  |
| <b>BEARING</b>        |                            |                    |          |   |               |                     | <b>BRIDGE APPROACH</b>                            |                         |                    |                          |    |               |                     |    |    |    |    |    |  |
| Steel                 | Corrosion                  |                    |          |   |               |                     | Embankment  |                         | Material loss      |                          |    |               |                     |    |    |    |    |    |  |
|                       | Loose connection           |                    |          |   |               |                     |   |                         | Depression         |                          |    |               |                     |    |    |    |    |    |  |
|                       | Abnormal displacement      |                    |          |   |               |                     |   |                         |                    |                          |    |               |                     |    |    |    |    |    |  |
|                       | Paint deterioration        |                    |          |   |               |                     |   |                         |                    |                          |    |               |                     |    |    |    |    |    |  |
|                       | Bed (support) damage       |                    |          |   |               |                     |   |                         |                    |                          |    |               |                     |    |    |    |    |    |  |
|                       |                            |                    |          |   |               |                     | None  |                         |                    |                          |    |               |                     |    |    |    |    |    |  |

Assessment of Bridge Approach will be limited to 6.0 meter length.

ABUTMENT No. **A2** (one set of forms for each abutment)

Bridge ID

Bridge Name **Magapit**

Abutment Element - Damage Rating

| Type of Material      | Type of Damage             | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State |
|-----------------------|----------------------------|--------------------|----------|---|---------------|---------------------|
|                       |                            |                    | Unit     | % |               |                     |
| <b>MAIN STRUCTURE</b> |                            |                    |          |   |               |                     |
| Concrete              | Cracking                   |                    |          |   |               |                     |
|                       | Spalling/Scaling/Disinteg. |                    |          |   |               |                     |
|                       | Delamination               |                    |          |   |               |                     |
|                       | Rebar exposure/corrosion   |                    |          |   |               |                     |
|                       | Honecomb                   |                    |          |   |               |                     |
|                       | Tilt/Settlement            |                    |          |   |               |                     |
| <b>FOUNDATION</b>     |                            |                    |          |   |               |                     |
| Concrete              | Cracking                   |                    |          |   |               |                     |
|                       | Spalling/Scaling/Disinteg. |                    |          |   |               |                     |
|                       | Delamination               |                    |          |   |               |                     |
|                       | Rebar exposure/corrosion   |                    |          |   |               |                     |
|                       | Honecomb                   |                    |          |   |               |                     |
|                       | Tilt/Settlement            |                    |          |   |               |                     |
| <b>BEARING</b>        |                            |                    |          |   |               |                     |
| Steel                 | Corrosion                  |                    |          |   |               |                     |
|                       | Loose connection           |                    |          |   |               |                     |
|                       | Abnormal displacement      |                    |          |   |               |                     |
|                       | Paint deterioration        |                    |          |   |               |                     |
|                       | Bed (support) damage       |                    |          |   |               |                     |

| Type of Material                                  | Type of Damage           | Severity of Defect | Affected |    | Damage Rating | Attrib. Cond. State |
|---|--------------------------|--------------------|----------|----|---------------|---------------------|
|   |                          |                    | Unit     | %  |               |                     |
| <b>EXPANSION JOINT</b>                            |                          |                    |          |    |               |                     |
| Steel   | Water leakage            |                    |          |    |               |                     |
|   | Abnormal space/noise     |                    |          |    |               |                     |
|   | Difference in elevation  |                    |          |    |               |                     |
|   | Displacement             |                    |          |    |               |                     |
|   | Rupture                  |                    |          |    |               |                     |
| <b>LEFT WING WALL (LW) / RIGHT WING WALL (RW)</b> |                          |                    |          |    |               |                     |
|   |                          |                    | LW       | RW |               |                     |
| Concrete  | Cracking                 |                    |          |    |               |                     |
|   | Delamination/Disinteg.   |                    |          |    |               |                     |
|   | Rebar exposure/corrosion |                    |          |    |               |                     |
| <b>BRIDGE APPROACH</b>                            |                          |                    |          |    |               |                     |
| Embankment  | Material loss            |                    |          |    |               |                     |
|   | Depression               |                    |          |    |               |                     |
| None  |                          |                    |          |    |               |                     |

Assessment of Bridge Approach will be limited to 6.0 meter length.

**Department of Public Works and Highways**  
**BRIDGE MANAGEMENT SYSTEM**

**Anchorage Element-Damage Rating**



ANCHORAGE No. Anchor 1

Bridge ID

Bridge Name Magapit

Anchorage Element - Damage Rating

| Type of Material      | Type of Damage             | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State |
|-----------------------|----------------------------|--------------------|----------|---|---------------|---------------------|
|                       |                            |                    | Unit     | % |               |                     |
| <b>MAIN STRUCTURE</b> |                            |                    |          |   |               |                     |
| Concrete Anchor Block | Cracking                   |                    |          |   |               |                     |
|                       | Spalling/Scaling/Disinteg. |                    |          |   |               |                     |
|                       | Delamination               |                    |          |   |               |                     |
|                       | Rebar exposure/corrosion   |                    |          |   |               |                     |
|                       | Honecomb                   |                    |          |   |               |                     |
|                       | Tilt/Settlement            |                    |          |   |               |                     |
| <b>MAIN STRUCTURE</b> |                            |                    |          |   |               |                     |
| Concrete Foundation   | Cracking                   |                    |          |   |               |                     |
|                       | Spalling/Scaling/Disinteg. |                    |          |   |               |                     |
|                       | Delamination               |                    |          |   |               |                     |
|                       | Rebar exposure/corrosion   |                    |          |   |               |                     |
|                       | Honecomb                   |                    |          |   |               |                     |
|                       | Tilt/Settlement            |                    |          |   |               |                     |

| Type of Material      | Type of Damage     | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State |
|-----------------------|--------------------|--------------------|----------|---|---------------|---------------------|
|                       |                    |                    | Unit     | % |               |                     |
| <b>MAIN STRUCTURE</b> |                    |                    |          |   |               |                     |
| House                 | Water leakage      |                    |          |   |               |                     |
|                       | Abnormal situation |                    |          |   |               |                     |
|                       | Dirt accumulation  |                    |          |   |               |                     |
|                       |                    |                    |          |   |               |                     |
|                       |                    |                    |          |   |               |                     |
|                       |                    |                    |          |   |               |                     |

ANCHORAGE No. Anchor 2

Bridge ID

Bridge Name Magapit

Anchorage Element - Damage Rating

| Type of Material      | Type of Damage             | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State |
|-----------------------|----------------------------|--------------------|----------|---|---------------|---------------------|
|                       |                            |                    | Unit     | % |               |                     |
| <b>MAIN STRUCTURE</b> |                            |                    |          |   |               |                     |
| Concrete Anchor Block | Cracking                   |                    |          |   |               |                     |
|                       | Spalling/Scaling/Disinteg. |                    |          |   |               |                     |
|                       | Delamination               |                    |          |   |               |                     |
|                       | Rebar exposure/corrosion   |                    |          |   |               |                     |
|                       | Honecomb                   |                    |          |   |               |                     |
|                       | Tilt/Settlement            |                    |          |   |               |                     |
| <b>MAIN STRUCTURE</b> |                            |                    |          |   |               |                     |
| Concrete Foundation   | Cracking                   |                    |          |   |               |                     |
|                       | Spalling/Scaling/Disinteg. |                    |          |   |               |                     |
|                       | Delamination               |                    |          |   |               |                     |
|                       | Rebar exposure/corrosion   |                    |          |   |               |                     |
|                       | Honecomb                   |                    |          |   |               |                     |
|                       | Tilt/Settlement            |                    |          |   |               |                     |

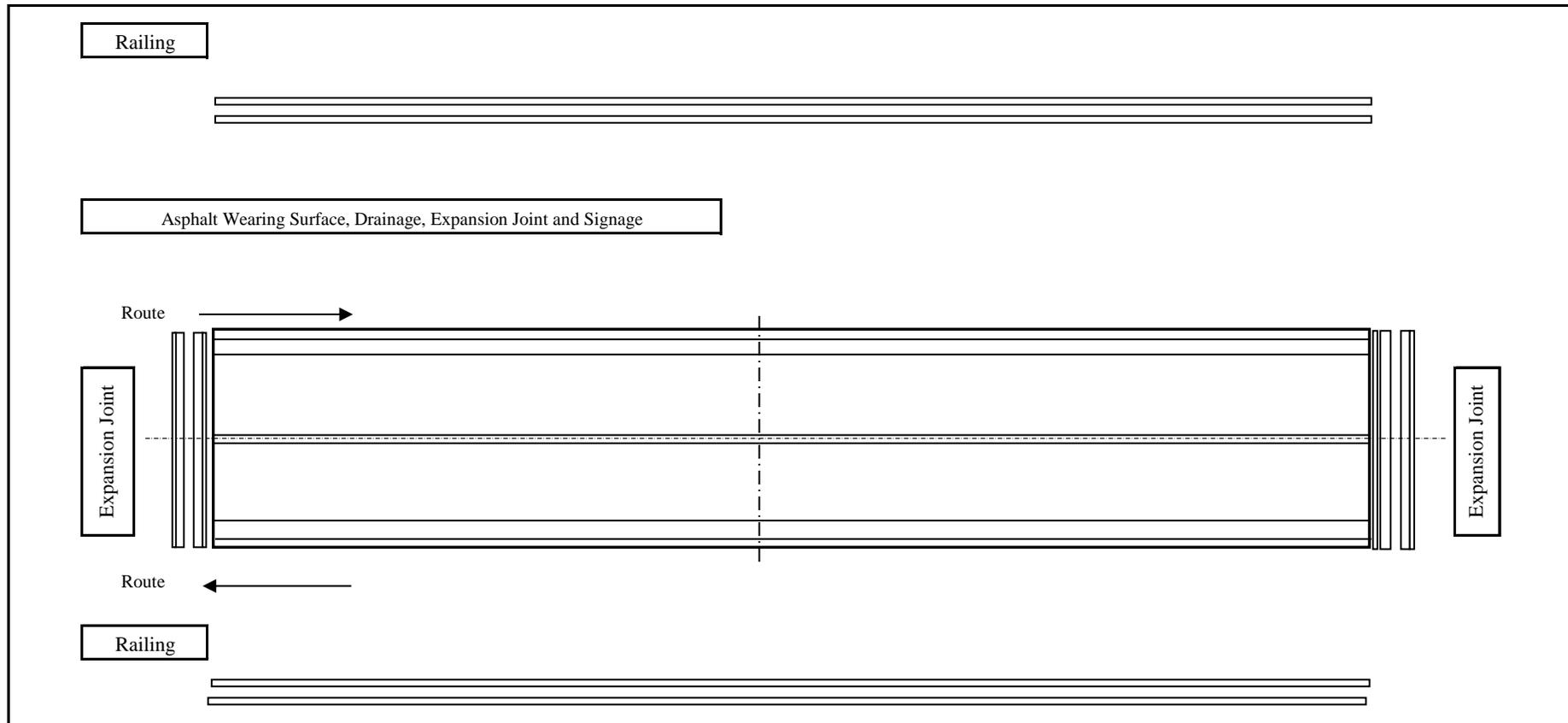
| Type of Material      | Type of Damage     | Severity of Defect | Affected |   | Damage Rating | Attrib. Cond. State |
|-----------------------|--------------------|--------------------|----------|---|---------------|---------------------|
|                       |                    |                    | Unit     | % |               |                     |
| <b>MAIN STRUCTURE</b> |                    |                    |          |   |               |                     |
| House                 | Water leakage      |                    |          |   |               |                     |
|                       | Abnormal situation |                    |          |   |               |                     |
|                       | Dirt accumulation  |                    |          |   |               |                     |
|                       |                    |                    |          |   |               |                     |
|                       |                    |                    |          |   |               |                     |
|                       |                    |                    |          |   |               |                     |

# Sketch Drawings for Condition Inspection

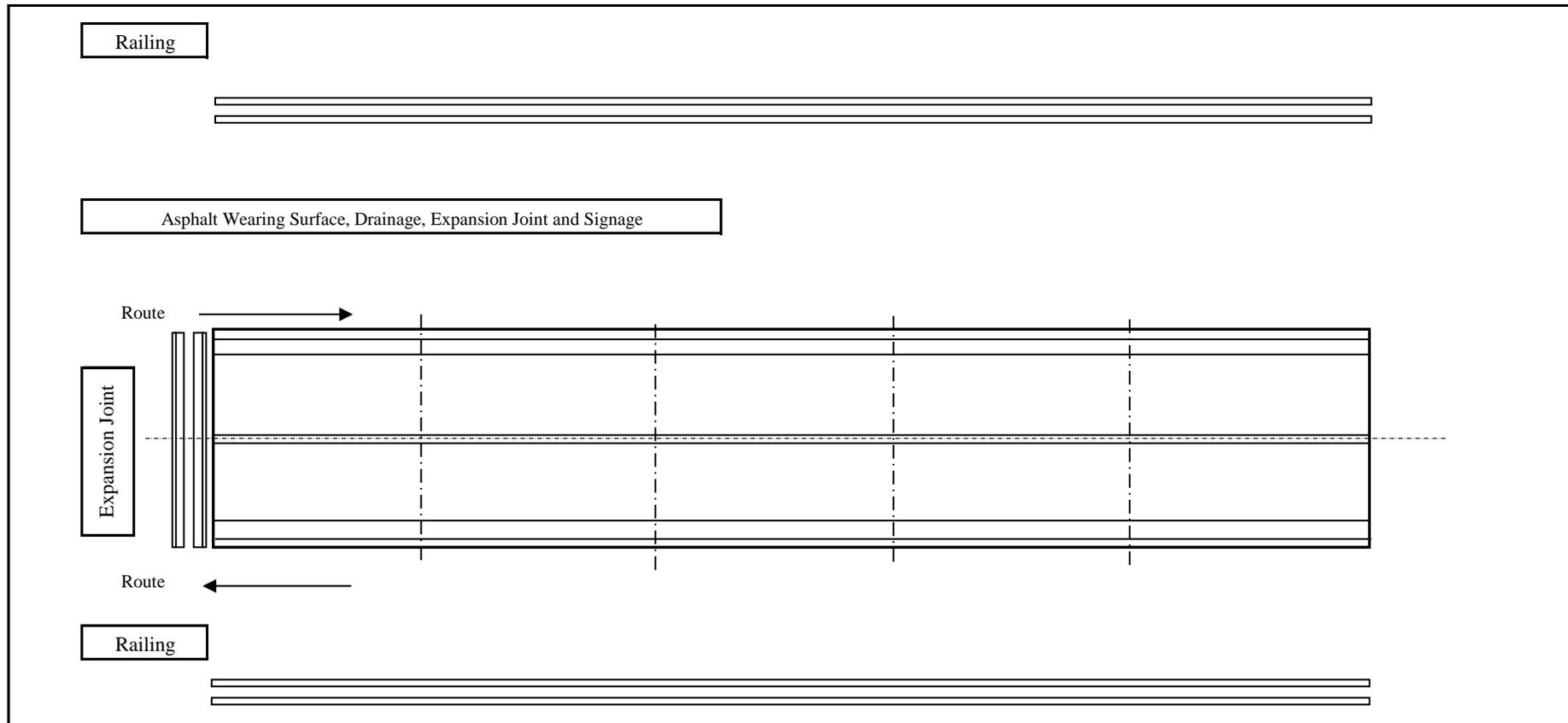
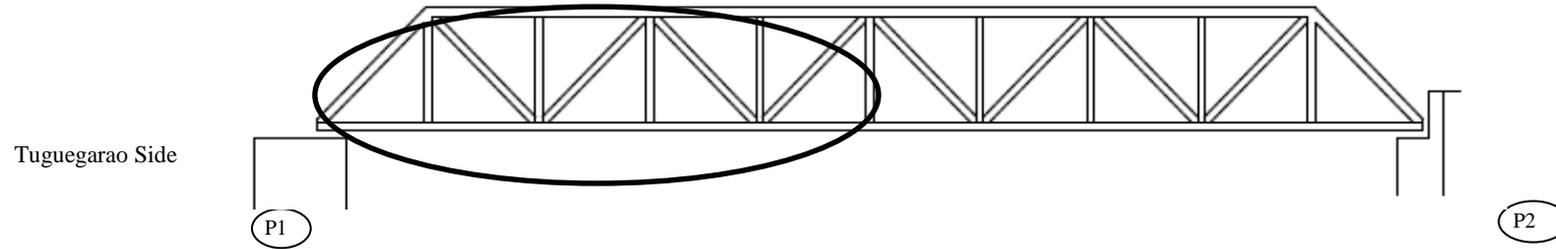
NOTE: Print in A3 size for usage at site



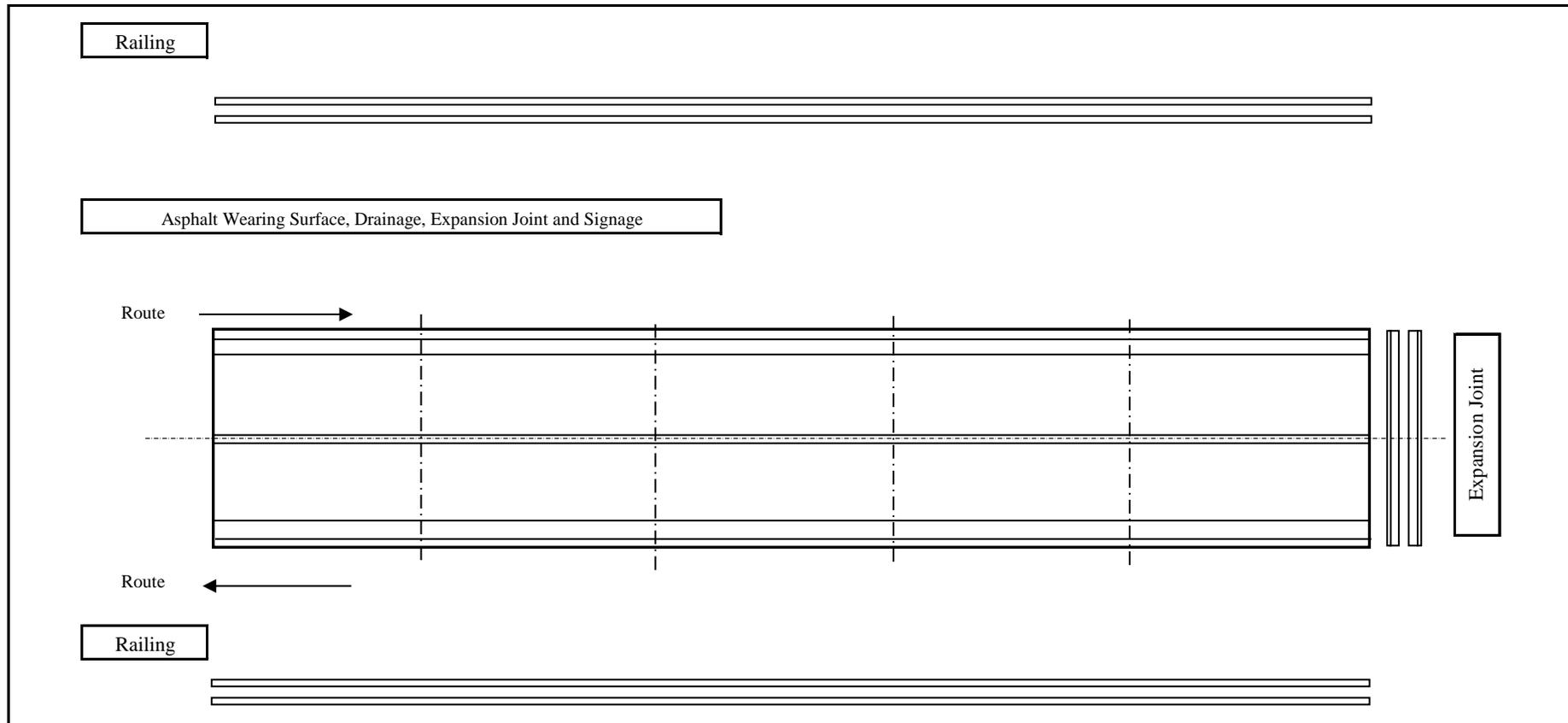
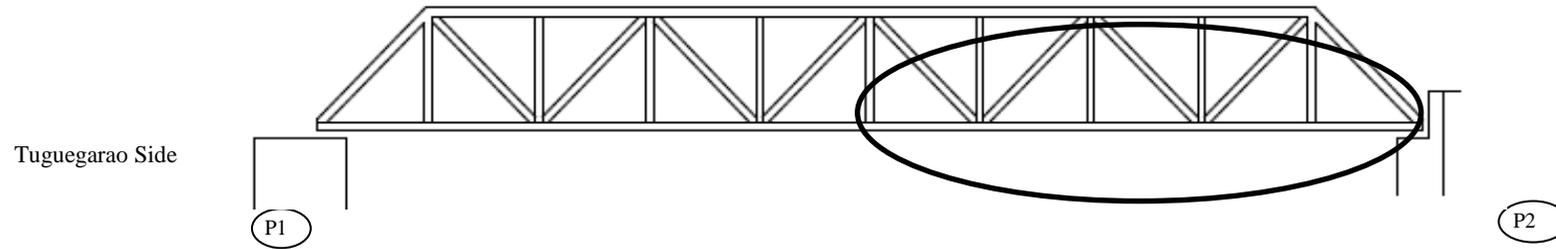
## Sketch of Bridge Condition Inspection Magapit Bridge



# Sketch of Bridge Condition Inspection Magapit Bridge

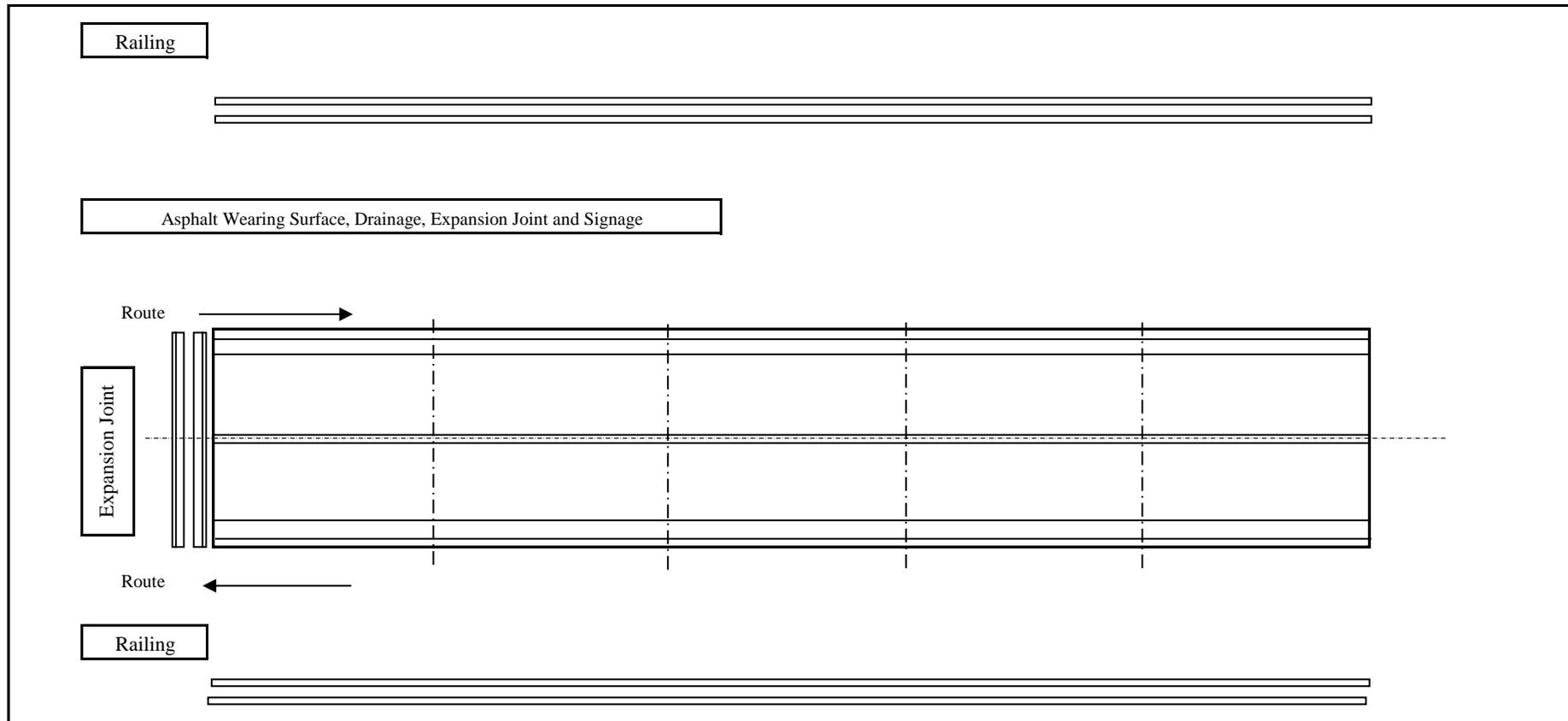
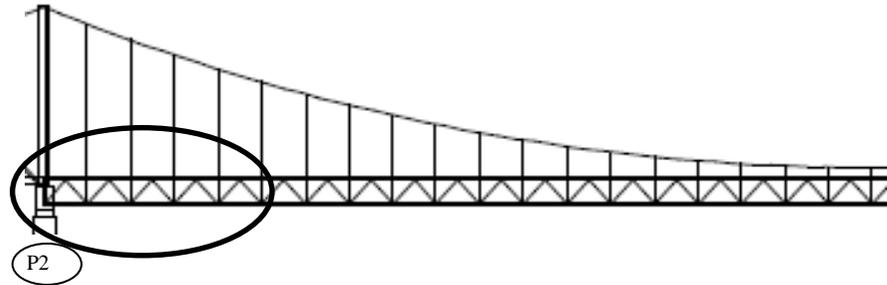


# Sketch of Bridge Condition Inspection Magapit Bridge

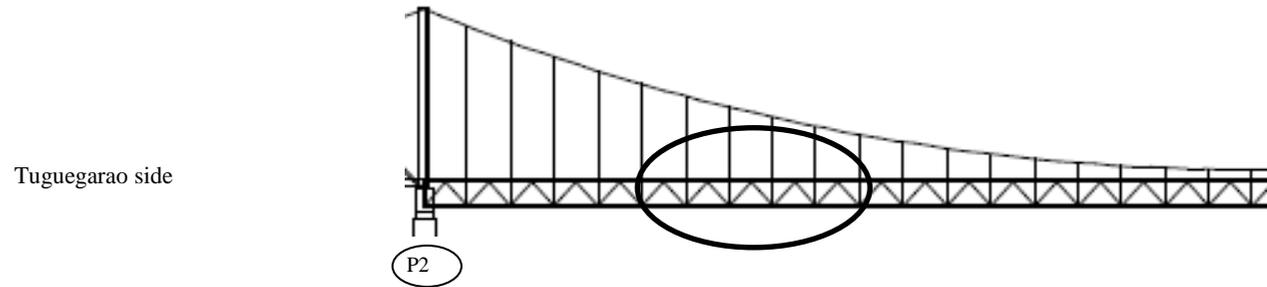


## Sketch of Bridge Condition Inspection Magapit Bridge

Tuguegarao Side



## Sketch of Bridge Condition Inspection Magapit Bridge



Railing

Asphalt Wearing Surface, Drainage, Expansion Joint and Signage

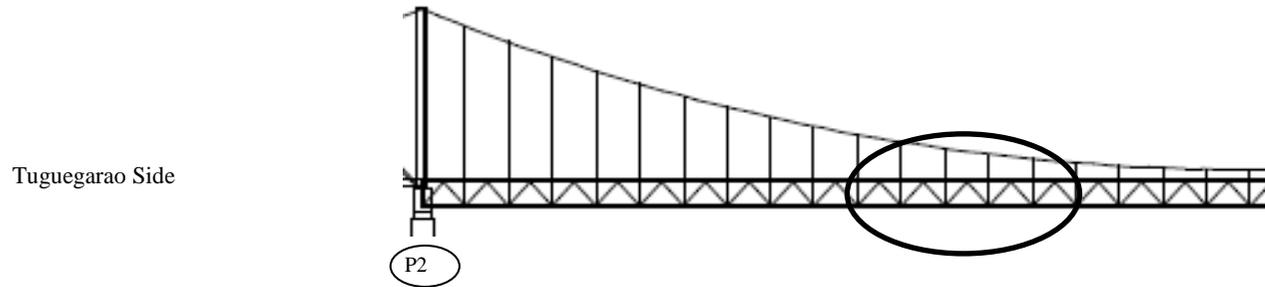
Route

→

←

Railing

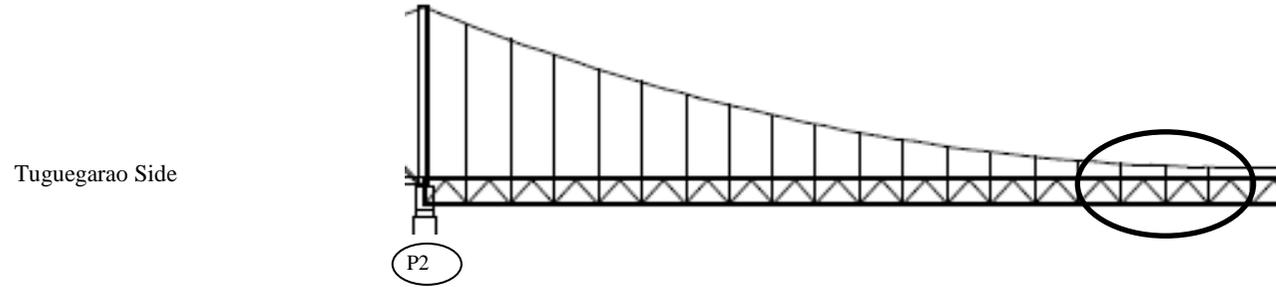
# Sketch of Bridge Condition Inspection Magapit Bridge



|  |  |  |  |  |  |
|--|--|--|--|--|--|
| Railing  |  |  |  |  |  |
| Asphalt Wearing Surface, Drainage, Expansion Joint and Signage |  |  |  |  |  |
| Route  |  |  |  |  |  |
| Railing  |  |  |  |  |  |

The form contains a large rectangular area for sketching. At the top left, a box labeled 'Railing' is followed by a sketch of two parallel lines representing a railing. Below this is a box labeled 'Asphalt Wearing Surface, Drainage, Expansion Joint and Signage'. Underneath is a diagram of a road with two lanes, indicated by dashed lines. Arrows labeled 'Route' point in opposite directions. At the bottom left, another box labeled 'Railing' is followed by another sketch of two parallel lines representing a railing.

## Sketch of Bridge Condition Inspection Magapit Bridge



Railing

Asphalt Wearing Surface, Drainage, Expansion Joint and Signage

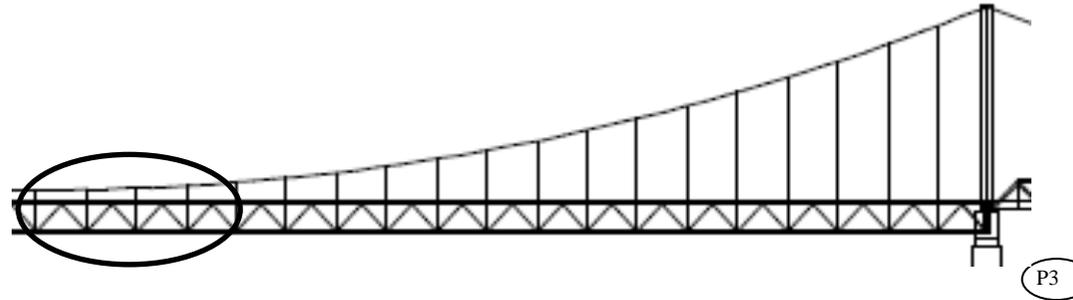
Route →

Route ←

Railing

# Sketch of Bridge Condition Inspection Magapit Bridge

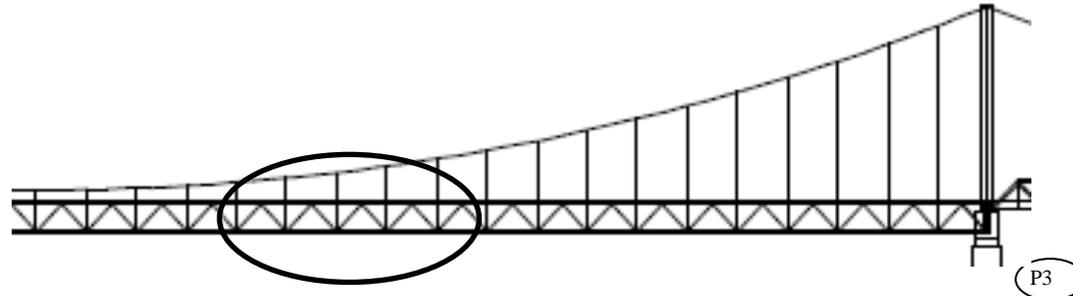
Tuguegarao Side



|  |   |  |  |  |
|--|---|--|--|--|
| Railing  |   |  |  |  |
| Asphalt Wearing Surface, Drainage, Expansion Joint and Signage |   |  |  |  |
| Route  | → |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
| Route  | ← |  |  |  |
| Railing  |   |  |  |  |

# Sketch of Bridge Condition Inspection Magapit Bridge

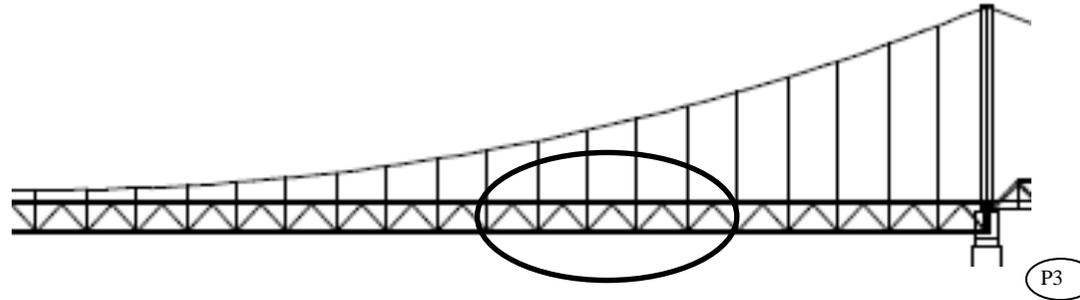
Tuguegarao Side



|  |  |  |  |  |  |
|--|--|--|--|--|--|
| Railing  |  |  |  |  |  |
| Asphalt Wearing Surface, Drainage, Expansion Joint and Signage |  |  |  |  |  |
| Route  |  |  |  |  |  |
| Route  |  |  |  |  |  |
| Railing  |  |  |  |  |  |

# Sketch of Bridge Condition Inspection Magapit Bridge

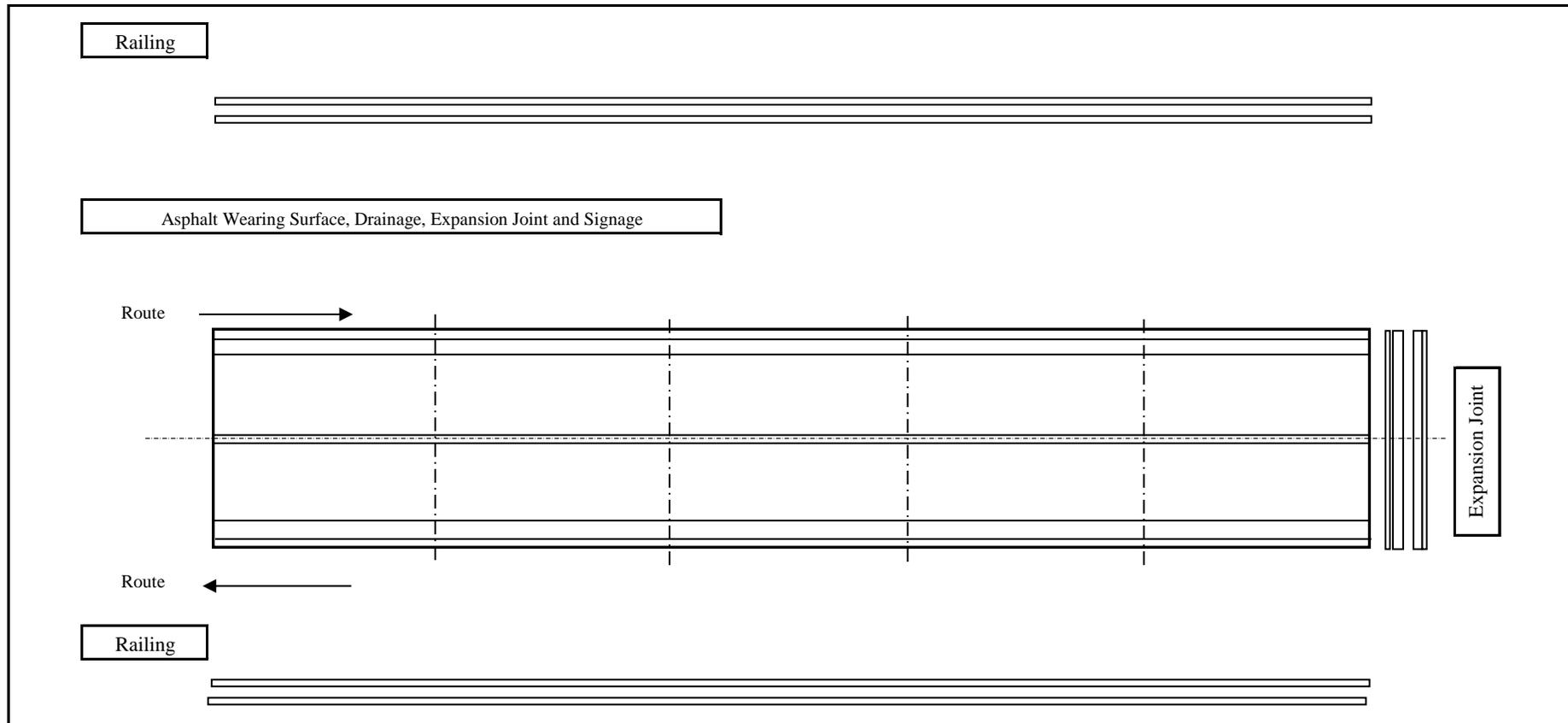
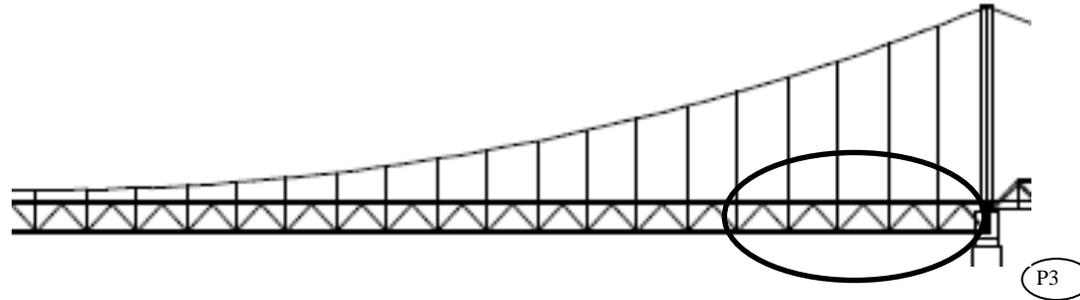
Tuguegarao Side



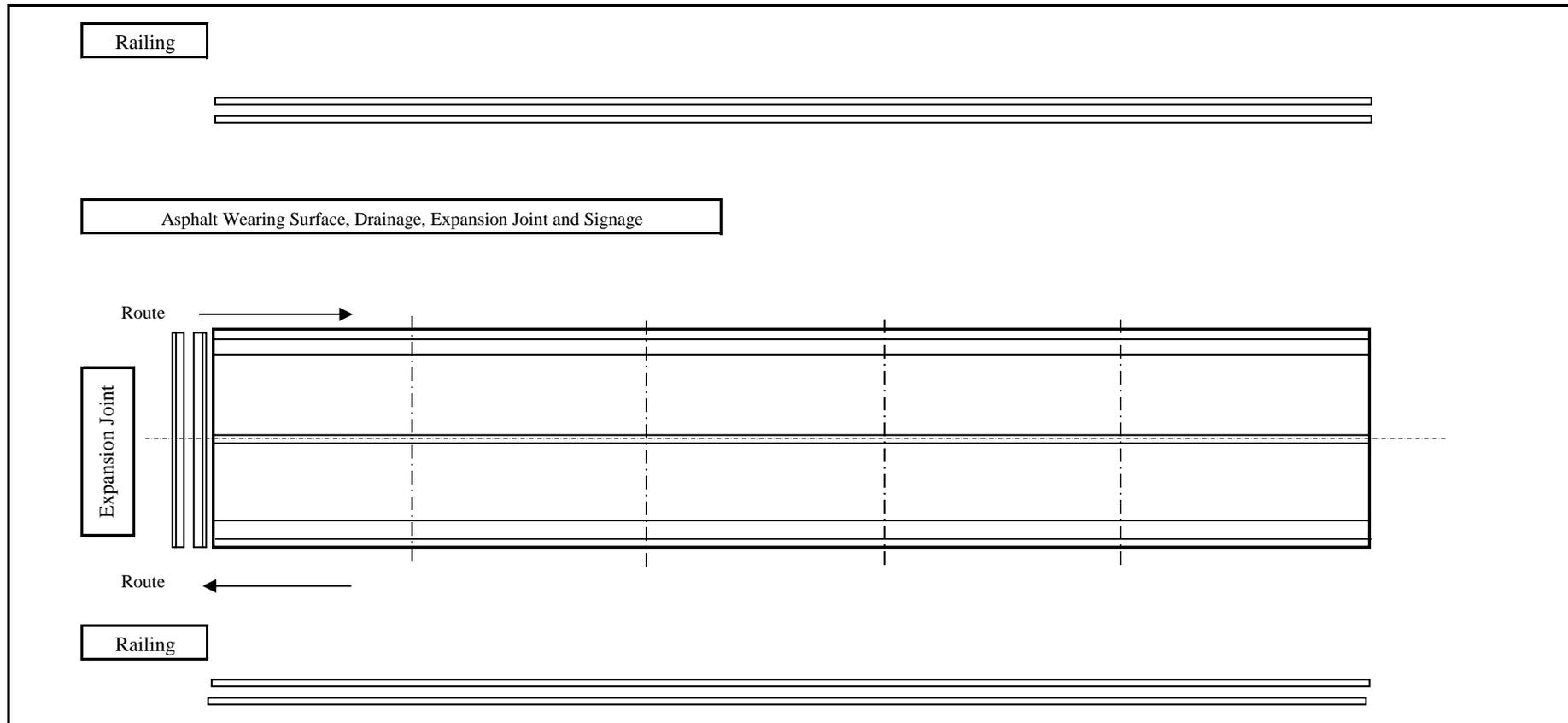
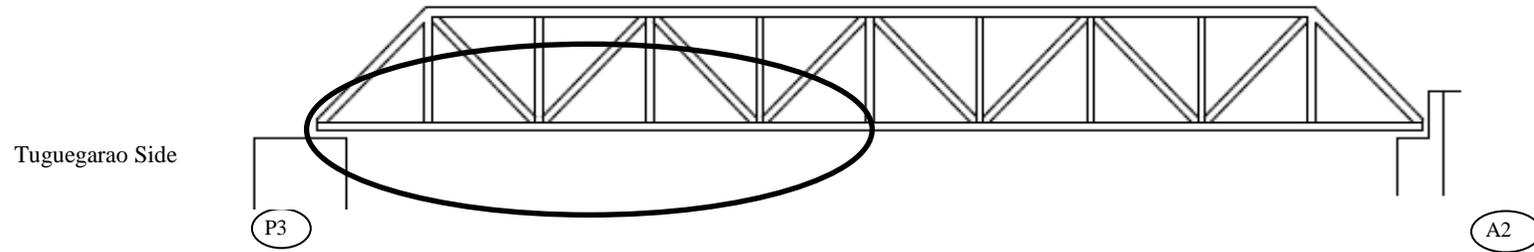
|  |  |  |  |  |  |
|--|--|--|--|--|--|
| Railing  |  |  |  |  |  |
| Asphalt Wearing Surface, Drainage, Expansion Joint and Signage |  |  |  |  |  |
| Route  |  |  |  |  |  |
| Route  |  |  |  |  |  |
| Railing  |  |  |  |  |  |

# Sketch of Bridge Condition Inspection Magapit Bridge

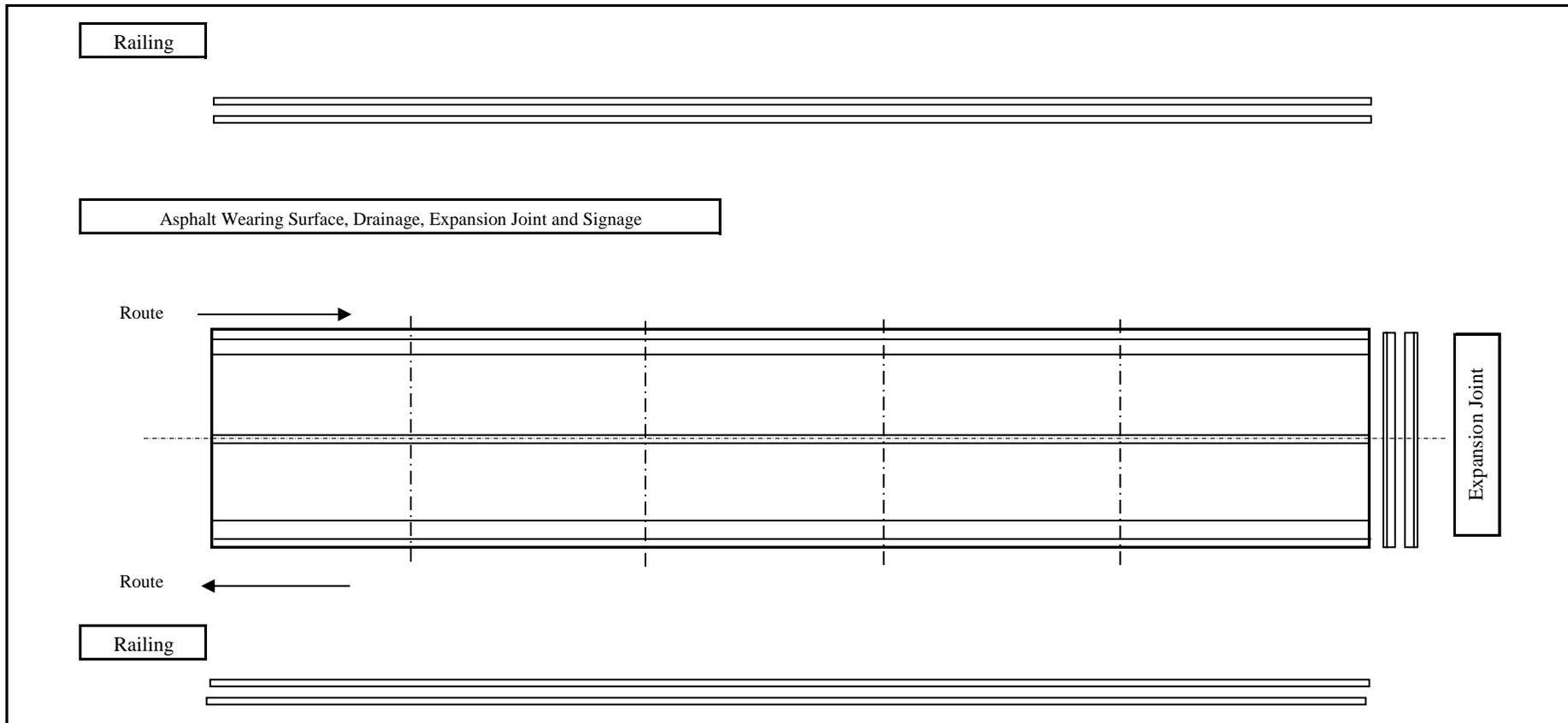
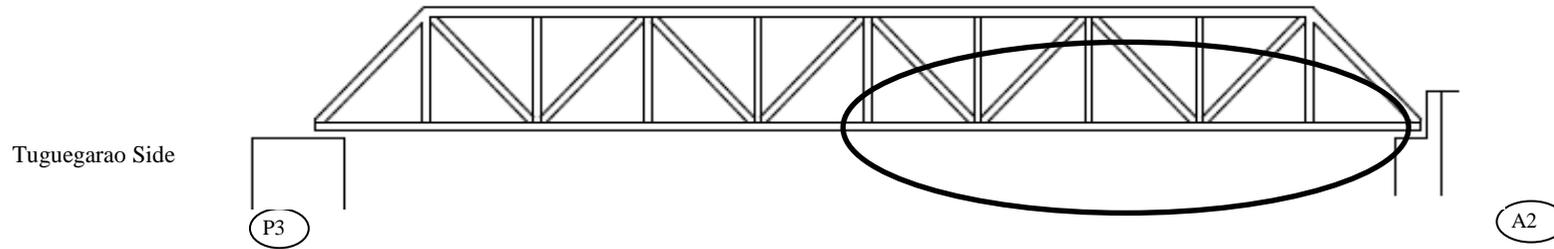
Tuguegarao Side



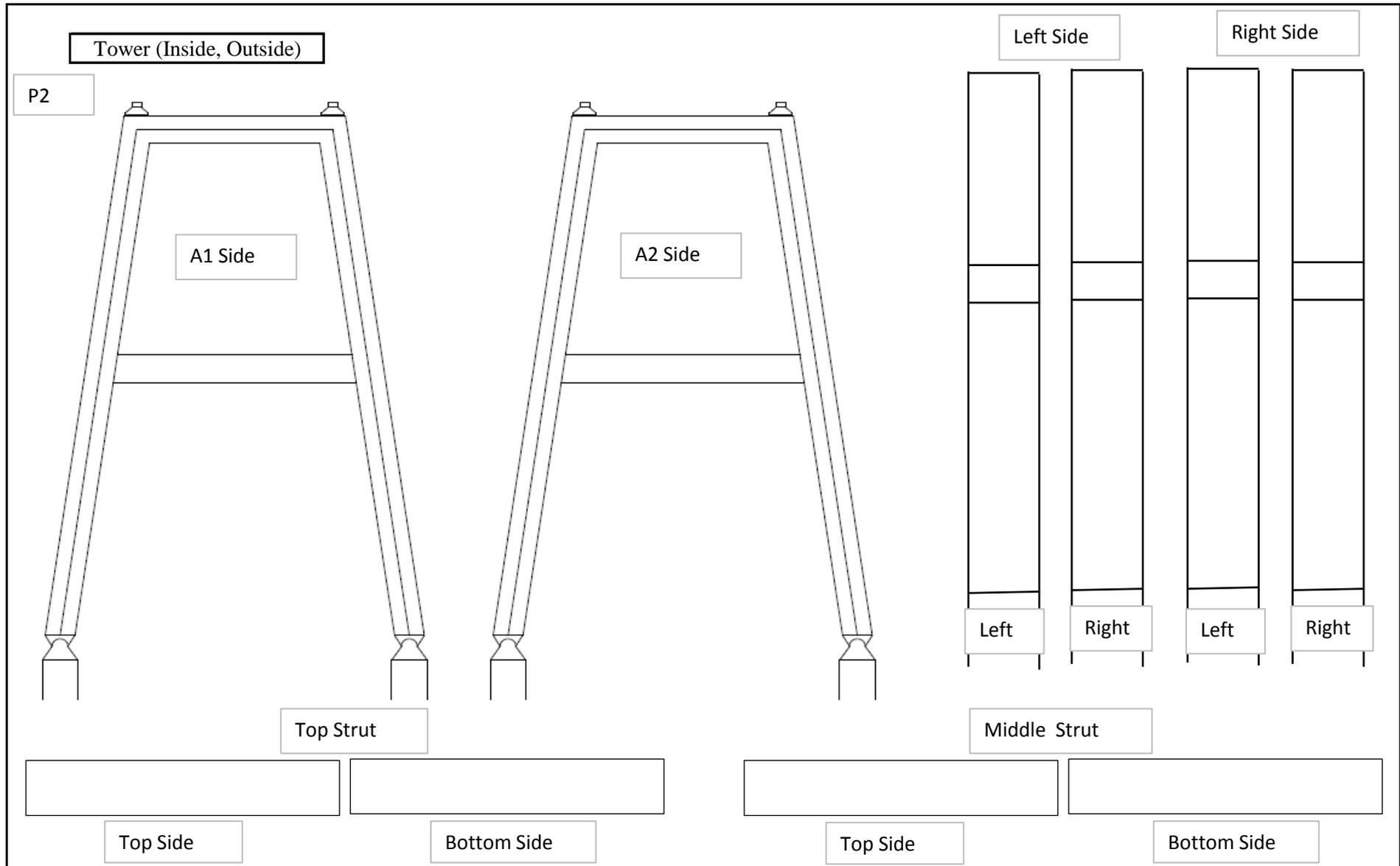
# Sketch of Bridge Condition Inspection Magapit Bridge



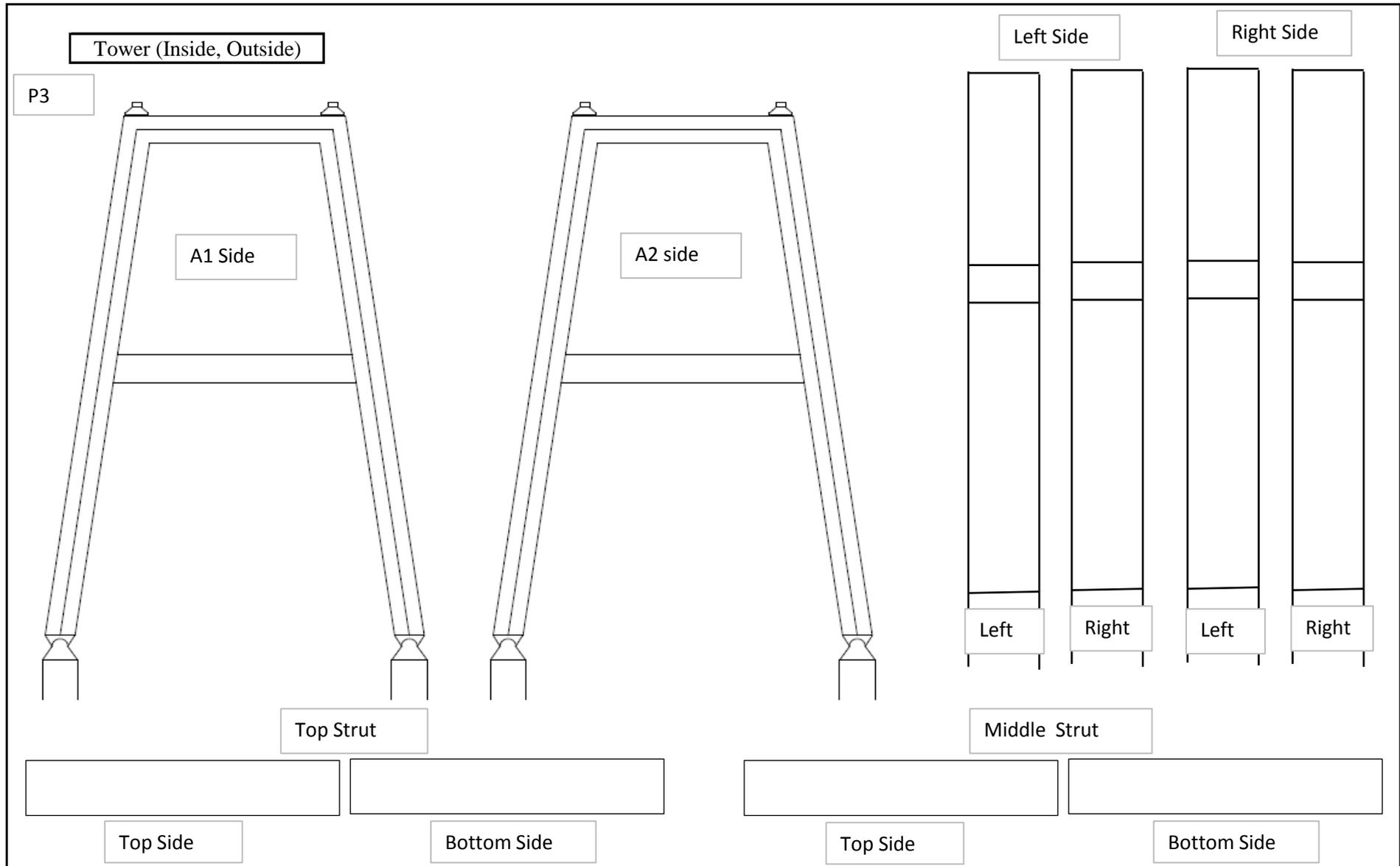
# Sketch of Bridge Condition Inspection Magapit Bridge



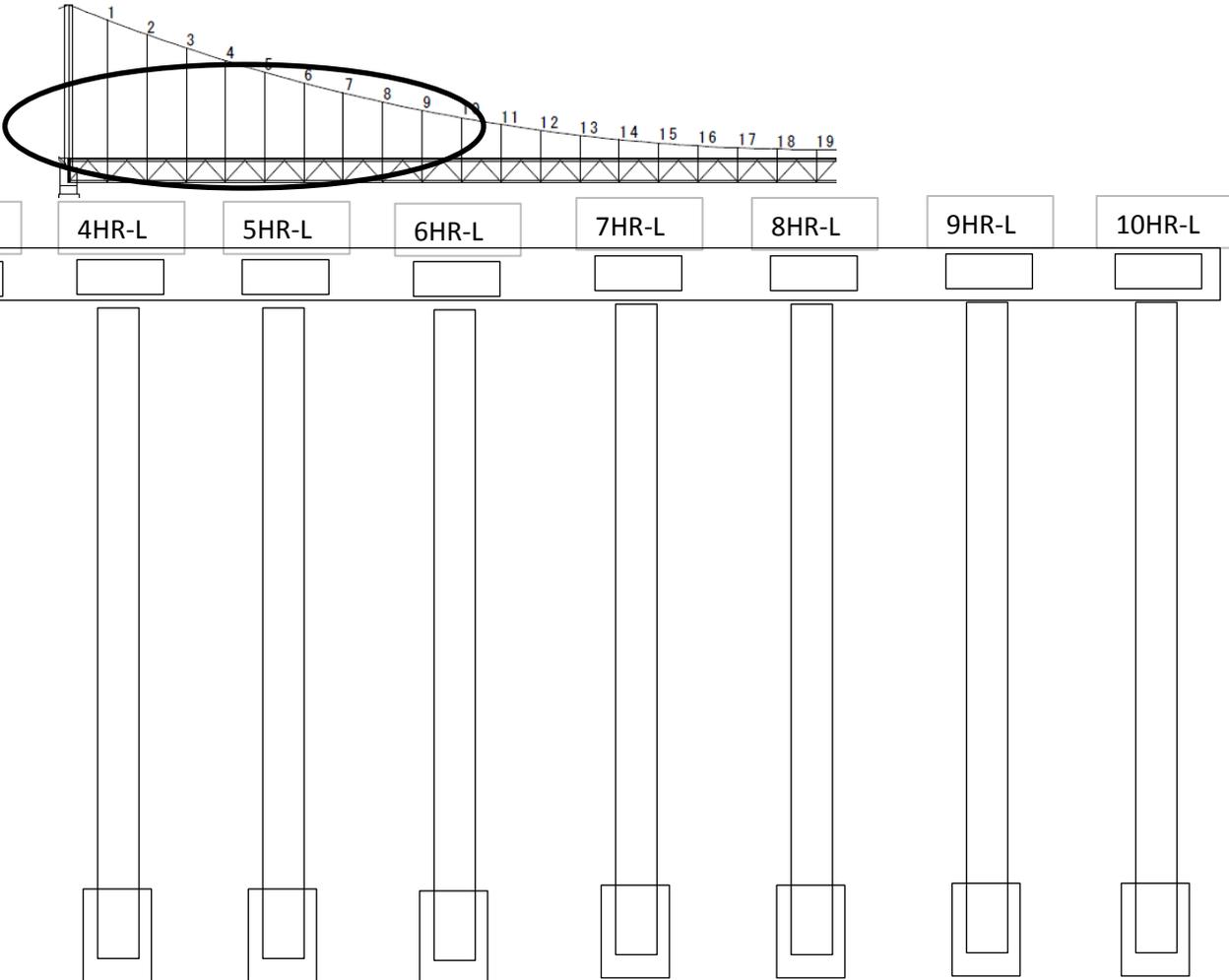
# Sketch of Bridge Condition Inspection Magapit Bridge



**Sketch of Bridge Condition Inspection  
Magapit Bridge**



# Sketch of Bridge Condition Inspection Magapit Bridge

|                                  |  |                      |                      |                      |                      |                      |                      |                      |                      |
|----------------------------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>Hanger Rope</b>               | Hanger Rope and Main Cable: <u>Vibration, Alignment/Deformation, Water Leakage/Corrosion, Paint Peel-off</u> |                      |                      |                      |                      |                      |                      |                      |                      |
| <b>Main Cable</b>                | Cable Band and Suspension: <u>Abnormal Condition, Corrosion, Water Leakage, Vegetation, Paint Peel-off</u>   |                      |                      |                      |                      |                      |                      |                      |                      |
| <b>Cable Band and Suspension</b> |  |                      |                      |                      |                      |                      |                      |                      |                      |
| <b>Left Side</b>                 |                           |                      |                      |                      |                      |                      |                      |                      |                      |
| 1HR-L                            | 2HR-L  | 3HR-L                | 4HR-L                | 5HR-L                | 6HR-L                | 7HR-L                | 8HR-L                | 9HR-L                | 10HR-L               |
| <input type="text"/>             | <input type="text"/>   | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

## Sketch of Bridge Condition Inspection Magapit Bridge

|   |   |
|---|---|
| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Hanger Rope</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Main Cable</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Cable Band and Suspension</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Left Side</div>  | <p>Hanger Rope and Main Cable: <u>Vibration, Alignment/Deformation, Water Leakage/Corrosion, Paint Peel-off</u></p> <p>Cable Band and Suspension: <u>Abnormal Condition, Corrosion, Water Leakage, Vegetation, Paint Peel-off</u></p> |
|   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">11HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">12HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">13HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">14HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">15HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">16HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">17HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">18HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">19HR-L</div> |   |
| <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto 10px auto;"></div>  |   |
| <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto 10px auto;"></div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto 10px auto;"></div>  |   |

## Sketch of Bridge Condition Inspection Magapit Bridge

|  |   |
|--|---|
| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Hanger Rope</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Main Cable</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Cable Band and Suspension</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Left Side</div>   | <p>Hanger Rope and Main Cable: <u>Vibration, Alignment/Deformation, Water Leakage/Corrosion, Paint Peel-off</u></p> <p>Cable Band and Suspension: <u>Abnormal Condition, Corrosion, Water Leakage, Vegetation, Paint Peel-off</u></p> |
| <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>20HR-L</span><span>21HR-L</span><span>22HR-L</span><span>23HR-L</span><span>24HR-L</span><span>25HR-L</span><span>26HR-L</span><span>27HR-L</span><span>28HR-L</span> </div> <div style="display: flex; justify-content: space-around;"> <div style="width: 10%; height: 20px; border: 1px solid black;"></div> <div style="width: 10%; height: 20px; border: 1px solid black;"></div> <div style="width: 10%; height: 20px; border: 1px solid black;"></div> <div style="width: 10%; height: 20px; border: 1px solid black;"></div> <div style="width: 10%; height: 20px; border: 1px solid black;"></div> <div style="width: 10%; height: 20px; border: 1px solid black;"></div> <div style="width: 10%; height: 20px; border: 1px solid black;"></div> <div style="width: 10%; height: 20px; border: 1px solid black;"></div> <div style="width: 10%; height: 20px; border: 1px solid black;"></div> </div> |   |
| <div style="display: flex; justify-content: space-around;"> <div style="width: 10%; height: 150px; border: 1px solid black;"></div> <div style="width: 10%; height: 150px; border: 1px solid black;"></div> <div style="width: 10%; height: 150px; border: 1px solid black;"></div> <div style="width: 10%; height: 150px; border: 1px solid black;"></div> <div style="width: 10%; height: 150px; border: 1px solid black;"></div> <div style="width: 10%; height: 150px; border: 1px solid black;"></div> <div style="width: 10%; height: 150px; border: 1px solid black;"></div> <div style="width: 10%; height: 150px; border: 1px solid black;"></div> <div style="width: 10%; height: 150px; border: 1px solid black;"></div> </div>   |   |

## Sketch of Bridge Condition Inspection Magapit Bridge

|   |   |
|---|---|
| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Hanger Rope</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Main Cable</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Cable Band and Suspension</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Left Side</div>  | <p>Hanger Rope and Main Cable: <u>Vibration, Alignment/Deformation, Water Leakage/Corrosion, Paint Peel-off</u></p> <p>Cable Band and Suspension: <u>Abnormal Condition, Corrosion, Water Leakage, Vegetation, Paint Peel-off</u></p> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">29HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">30HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">31HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">32HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">33HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">34HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">35HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">36HR-L</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">37HR-L</div> |   |

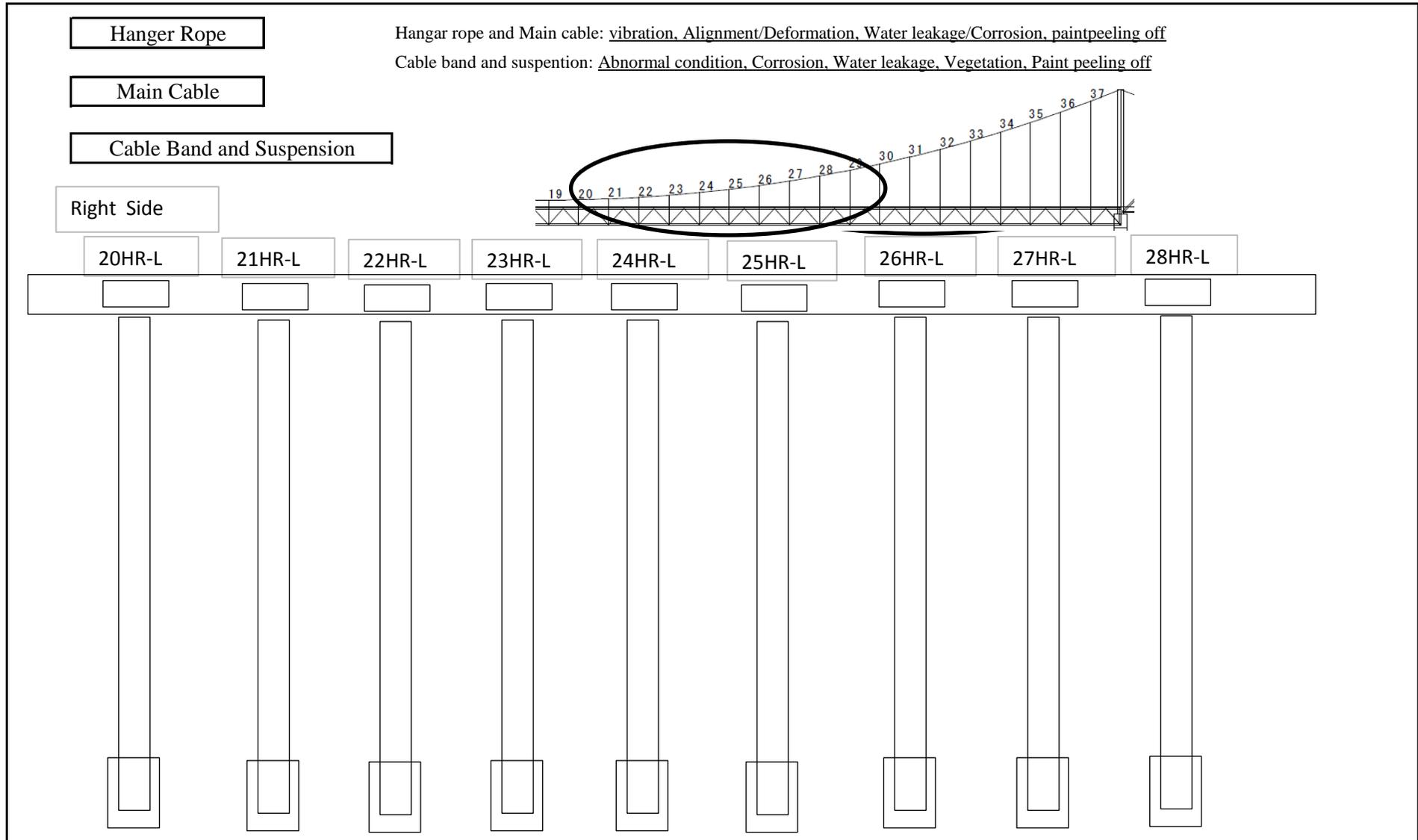
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |
|--|--|
| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Hanger Rope</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Main Cable</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Cable Band and Suspension</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Right Side</div>  | <p>Hanger Rope and Main Cable: <u>Vibration, Alignment/Deformation, Water Leakage/Corrosion, Paint Peel-off</u></p> <p>Cable Band and Suspension: <u>Abnormal Condition, Corrosion, Water Leakage, Vegetation, Paint Peel-off</u></p>  |
|  | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px;">1HR-L</div> <div style="border: 1px solid black; padding: 2px;">2HR-L</div> <div style="border: 1px solid black; padding: 2px;">3HR-L</div> <div style="border: 1px solid black; padding: 2px;">4HR-L</div> <div style="border: 1px solid black; padding: 2px;">5HR-L</div> <div style="border: 1px solid black; padding: 2px;">6HR-L</div> <div style="border: 1px solid black; padding: 2px;">7HR-L</div> <div style="border: 1px solid black; padding: 2px;">8HR-L</div> <div style="border: 1px solid black; padding: 2px;">9HR-L</div> <div style="border: 1px solid black; padding: 2px;">10HR-L</div> </div>  |
| <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> </div> | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> </div> |

## Sketch of Bridge Condition Inspection Magapit Bridge

|   |   |
|---|---|
| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Hanger Rope</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Main Cable</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Cable Band and Suspension</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Right Side</div>   | <p>Hanger Rope and Main Cable: <u>Vibration, Alignment/Deformation, Water Leakage/Corrosion, Paint Peel-off</u></p> <p>Cable Band and Suspension: <u>Abnormal Condition, Corrosion, Water Leakage, Vegetation, Paint Peel-off</u></p> |
| <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>11HR-L</span><span>12HR-L</span><span>13HR-L</span><span>14HR-L</span><span>15HR-L</span><span>16HR-L</span><span>17HR-L</span><span>18HR-L</span><span>19HR-L</span> </div> <div style="display: flex; justify-content: space-around;"> <div style="width: 20px; height: 20px; border: 1px solid black;"></div> <div style="width: 20px; height: 20px; border: 1px solid black;"></div> <div style="width: 20px; height: 20px; border: 1px solid black;"></div> <div style="width: 20px; height: 20px; border: 1px solid black;"></div> <div style="width: 20px; height: 20px; border: 1px solid black;"></div> <div style="width: 20px; height: 20px; border: 1px solid black;"></div> <div style="width: 20px; height: 20px; border: 1px solid black;"></div> <div style="width: 20px; height: 20px; border: 1px solid black;"></div> <div style="width: 20px; height: 20px; border: 1px solid black;"></div> </div> |   |

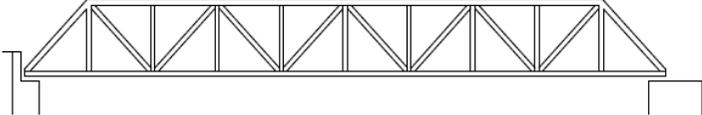
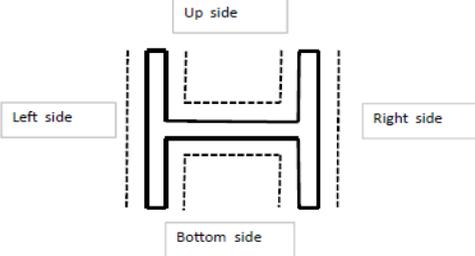
## Sketch of Bridge Condition Inspection Magapit Bridge



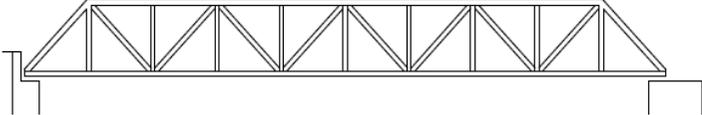
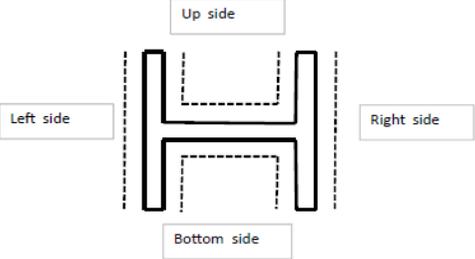
# Sketch of Bridge Condition Inspection Magapit Bridge

|                                  |  |        |        |        |        |        |        |        |
|----------------------------------|--|--------|--------|--------|--------|--------|--------|--------|
| <b>Hanger Rope</b>               | Hanger Rope and Main Cable: <u>Vibration, Alignment/Deformation, Water Leakage/Corrosion, Paint Peel-off</u> |        |        |        |        |        |        |        |
| <b>Main Cable</b>                | Cable Band and Suspension: <u>Abnormal Condition, Corrosion, Water Leakage, Vegetation, Paint Peel-off</u>   |        |        |        |        |        |        |        |
| <b>Cable Band and Suspension</b> |  |        |        |        |        |        |        |        |
| <b>Right Side</b>                |  |        |        |        |        |        |        |        |
| 29HR-L                           | 30HR-L   | 31HR-L | 32HR-L | 33HR-L | 34HR-L | 35HR-L | 36HR-L | 37HR-L |

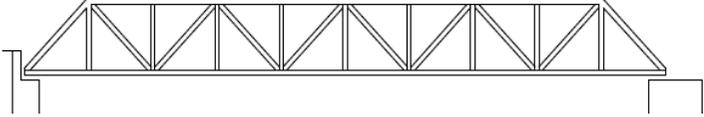
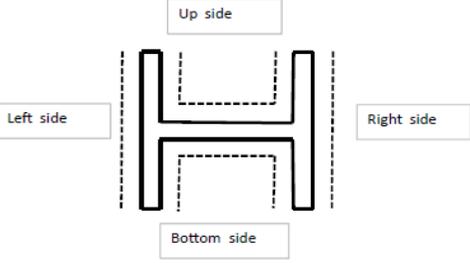
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
|--|--|---|--|-------------|--|-----------|--|------------|--|--|--|---------|--|-------------|--|-----------|--|------------|--|
| Truss Chord  | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>  |  |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| S2 .S4 (Left Side)   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| <p><b>1D-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side   |  | Bottom Side |  | Left Side |  | Right Side |  | <p><b>2D-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side |  | Bottom Side |  | Left Side |  | Right Side |  |
| Up Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right Side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Up Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right Side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| <p><b>3D-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side   |  | Bottom Side |  | Left Side |  | Right Side |  | <p><b>4D-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side |  | Bottom Side |  | Left Side |  | Right Side |  |
| Up Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right Side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Up Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right Side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |

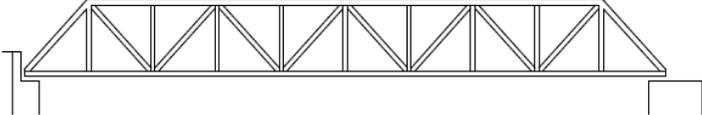
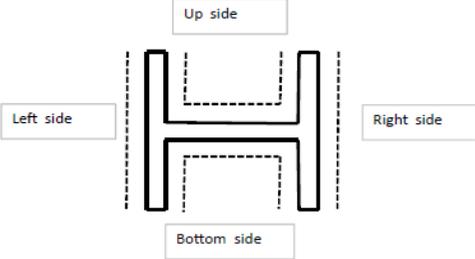
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
|--|--|---|--|-------------|--|-----------|--|------------|--|--|--|---------|--|-------------|--|-----------|--|------------|--|
| Truss Chord  | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>  |  |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| S2 .S4 (Left Side)   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| <p><b>5D-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side   |  | Bottom Side |  | Left Side |  | Right Side |  | <p><b>6D-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side |  | Bottom Side |  | Left Side |  | Right Side |  |
| Up Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right Side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Up Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right Side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| <p><b>7D-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side   |  | Bottom Side |  | Left Side |  | Right Side |  | <p><b>8D-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side |  | Bottom Side |  | Left Side |  | Right Side |  |
| Up Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right Side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Up Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right Side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |

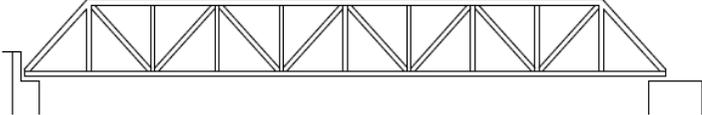
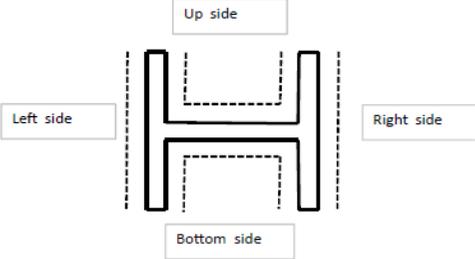
## Sketch of Bridge Condition Inspection Magapit Bridge

|                   |  |   |  |
|-------------------|--|---|--|
| Truss Chord       | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>  |  |  |
| S2.S4 (Left Side) |  |   |  |
| 9D-L              |  | 10D-L   |  |
| Up Side           |  | Up Side   |  |
| Bottom Side       |  | Bottom Side   |  |
| Left Side         |  | Left Side   |  |
| Right Side        |  | Right Side  |  |

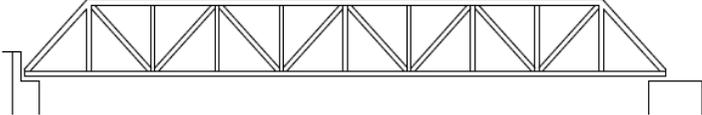
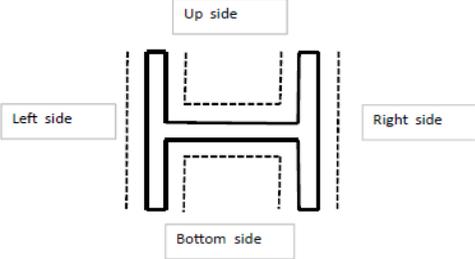
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
|--|--|---|--|-------------|--|-----------|--|------------|--|--|--|---------|--|-------------|--|-----------|--|------------|--|
| Truss Chord  | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>  |  |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| S2.S4 (Right Side)   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| <b>1D-R</b><br><table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 5px; width: 15%;">Up Side</td> <td style="border: 1px solid black; width: 85%; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side   |  | Bottom Side |  | Left Side |  | Right Side |  | <b>2D-R</b><br><table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 5px; width: 15%;">Up Side</td> <td style="border: 1px solid black; width: 85%; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side |  | Bottom Side |  | Left Side |  | Right Side |  |
| Up Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right Side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Up Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right Side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| <b>3D-R</b><br><table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 5px; width: 15%;">Up Side</td> <td style="border: 1px solid black; width: 85%; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side   |  | Bottom Side |  | Left Side |  | Right Side |  | <b>4D-R</b><br><table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 5px; width: 15%;">Up Side</td> <td style="border: 1px solid black; width: 85%; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side |  | Bottom Side |  | Left Side |  | Right Side |  |
| Up Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right Side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Up Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left Side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right Side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |

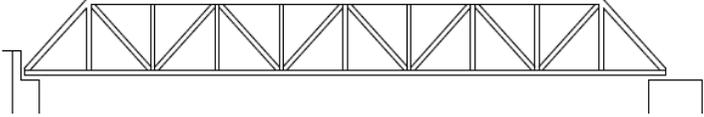
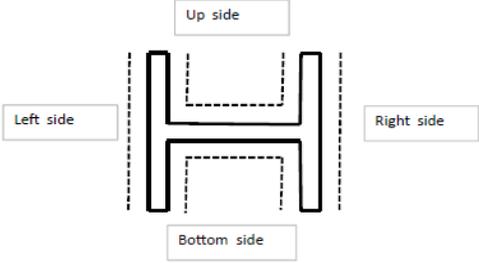
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |  |
|---|--|--|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Truss Chord</div> | <p>1 2 3 4 5 6 7 8 9 10 11</p>   |   |
| <div style="border: 1px solid black; padding: 2px;">S2.S4 (Right Side)</div>              |  |  |
| <b>5D-R</b>   | <div style="border: 1px solid black; padding: 2px;">Up Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>     | <div style="border: 1px solid black; padding: 2px;">Up Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>     |
|   | <div style="border: 1px solid black; padding: 2px;">Bottom Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div> | <div style="border: 1px solid black; padding: 2px;">Bottom Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div> |
|   | <div style="border: 1px solid black; padding: 2px;">Left Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>   | <div style="border: 1px solid black; padding: 2px;">Left Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>   |
|   | <div style="border: 1px solid black; padding: 2px;">Right Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>  | <div style="border: 1px solid black; padding: 2px;">Right Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>  |
| <b>7D-R</b>   | <div style="border: 1px solid black; padding: 2px;">Up Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>     | <div style="border: 1px solid black; padding: 2px;">Up Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>     |
|   | <div style="border: 1px solid black; padding: 2px;">Bottom Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div> | <div style="border: 1px solid black; padding: 2px;">Bottom Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div> |
|   | <div style="border: 1px solid black; padding: 2px;">Left Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>   | <div style="border: 1px solid black; padding: 2px;">Left Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>   |
|   | <div style="border: 1px solid black; padding: 2px;">Right Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>  | <div style="border: 1px solid black; padding: 2px;">Right Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>  |
| <b>8D-R</b>   | <div style="border: 1px solid black; padding: 2px;">Up Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>     | <div style="border: 1px solid black; padding: 2px;">Up Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>     |
|   | <div style="border: 1px solid black; padding: 2px;">Bottom Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div> | <div style="border: 1px solid black; padding: 2px;">Bottom Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div> |
|   | <div style="border: 1px solid black; padding: 2px;">Left Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>   | <div style="border: 1px solid black; padding: 2px;">Left Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>   |
|   | <div style="border: 1px solid black; padding: 2px;">Right Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>  | <div style="border: 1px solid black; padding: 2px;">Right Side</div> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>  |

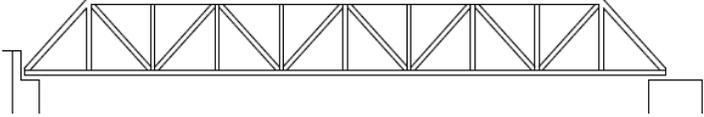
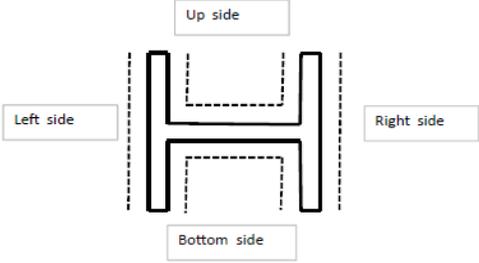
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |   |   |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
|---|---|---|-------------|--|-----------|--|------------|--|--|---------|--|-------------|--|-----------|--|------------|--|
| <div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Truss Chord</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">S2 .S4(Right side)</div>  | <div style="margin-bottom: 5px;">1 2 3 4 5 6 7 8 9 10 11</div>  |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| <p>9D-R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; padding: 2px;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side   |   | Bottom side |  | Left side |  | Right side |  | <p>10D-R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; padding: 2px;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side   |   |   |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Bottom side   |   |   |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Left side   |   |   |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Right side  |   |   |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Up side   |   |   |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Bottom side   |   |   |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Left side   |   |   |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Right side  |   |   |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |

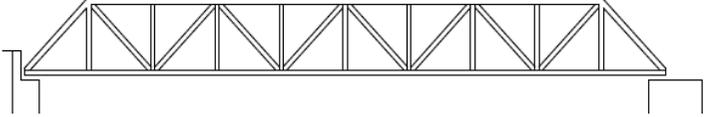
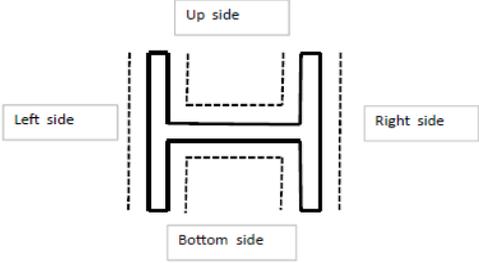
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
|--|--|---|--|-------------|--|-----------|--|------------|--|--|--|---------|--|-------------|--|-----------|--|------------|--|
| Truss Chord  | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>  |  |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| S2.S4 (Left side)  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| <p><b>2V-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up side   |  | Bottom side |  | Left side |  | Right side |  | <p><b>3V-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Up side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| <p><b>4V-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up side   |  | Bottom side |  | Left side |  | Right side |  | <p><b>5V-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Up side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |

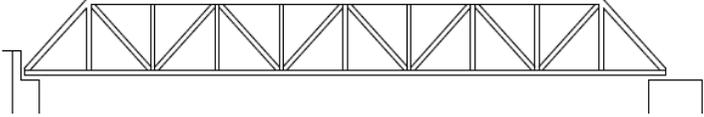
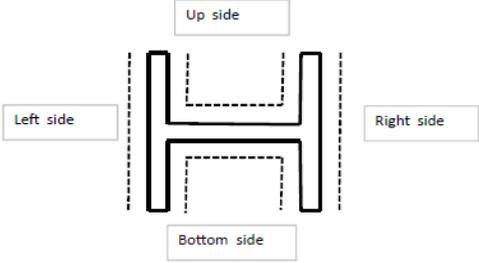
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
|---|--|---|-------------|--|-----------|--|------------|--|---|---------|--|-------------|--|-----------|--|------------|--|
| <div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Truss Chord</div> <div style="border: 1px solid black; padding: 2px;">S2 .S4 (Left side)</div>  | <div style="margin-bottom: 5px;"> <span style="margin: 0 10px;">1</span> <span style="margin: 0 10px;">2</span> <span style="margin: 0 10px;">3</span> <span style="margin: 0 10px;">4</span> <span style="margin: 0 10px;">5</span> <span style="margin: 0 10px;">6</span> <span style="margin: 0 10px;">7</span> <span style="margin: 0 10px;">8</span> <span style="margin: 0 10px;">9</span> <span style="margin: 0 10px;">10</span> <span style="margin: 0 10px;">11</span> </div>  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| <p>6V-L</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side  |   | Bottom side |  | Left side |  | Right side |  | <p>7V-L</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side  |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Up side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side  |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| <p>8V-L</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side  |   | Bottom side |  | Left side |  | Right side |  | <p>9V-L</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side  |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Up side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side  |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |

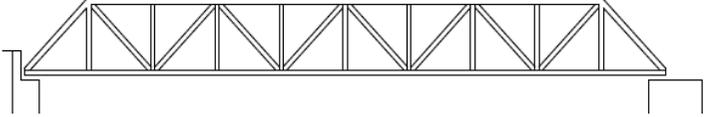
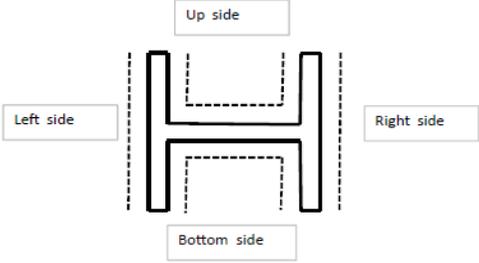
## Sketch of Bridge Condition Inspection Magapit Bridge

|                   |  |   |
|-------------------|--|---|
| Truss Chord       | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>  |  |
| S2 .S4(Left side) |  |   |
| 10V-L             |  |   |
| Up side           |  |   |
| Bottom side       |  |   |
| Left side         |  |   |
| Right side        |  |   |

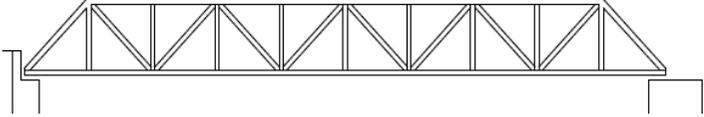
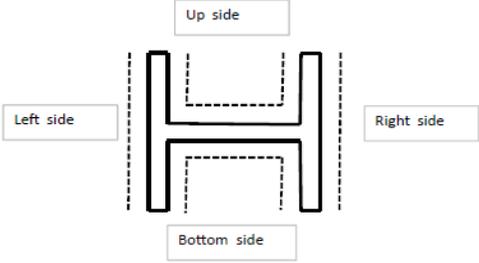
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
|--|--|---|--|-------------|--|-----------|--|------------|--|--|--|---------|--|-------------|--|-----------|--|------------|--|
| Truss Chord  | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>  |  |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| S2 .S4 (Right side)  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| <p><b>2V-R</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up side   |  | Bottom side |  | Left side |  | Right side |  | <p><b>3V-R</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Up side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| <p><b>4V-R</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up side   |  | Bottom side |  | Left side |  | Right side |  | <p><b>5V-R</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Up side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Bottom side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Left side  |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |
| Right side   |  |   |  |             |  |           |  |            |  |  |  |         |  |             |  |           |  |            |  |

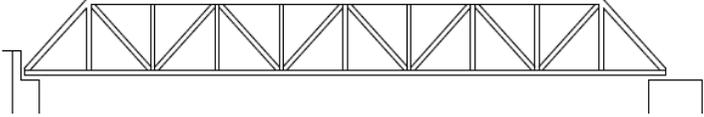
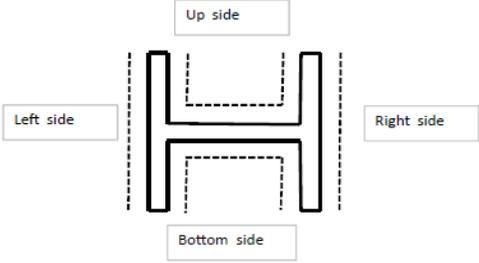
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |   |   |
|---|---|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Truss Chord</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">S2.S4 (Right side)</div>  | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>   |  |
| <p><b>6V-R</b></p> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> | <p><b>7V-R</b></p> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> |   |
| <p><b>8V-R</b></p> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> | <p><b>9V-R</b></p> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> |   |

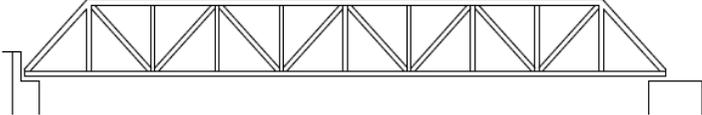
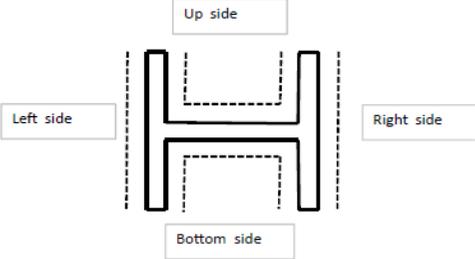
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |   |
|--|--|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Truss Chord</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">S2.S4 (Right side)</div> | <div style="margin-bottom: 5px;"> <span style="margin: 0 10px;">1</span> <span style="margin: 0 10px;">2</span> <span style="margin: 0 10px;">3</span> <span style="margin: 0 10px;">4</span> <span style="margin: 0 10px;">5</span> <span style="margin: 0 10px;">6</span> <span style="margin: 0 10px;">7</span> <span style="margin: 0 10px;">8</span> <span style="margin: 0 10px;">9</span> <span style="margin: 0 10px;">10</span> <span style="margin: 0 10px;">11</span> </div>  |  |
| <p>10V-R</p>   |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 5px;">Up side</div> <div style="border: 1px solid black; width: 250px; height: 25px; margin-left: 5px;"></div>         |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 5px;">Bottom side</div> <div style="border: 1px solid black; width: 250px; height: 25px; margin-left: 5px;"></div>     |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 5px;">Left side</div> <div style="border: 1px solid black; width: 250px; height: 25px; margin-left: 5px;"></div>       |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 5px;">Right side</div> <div style="border: 1px solid black; width: 250px; height: 25px; margin-left: 5px;"></div>      |  |   |

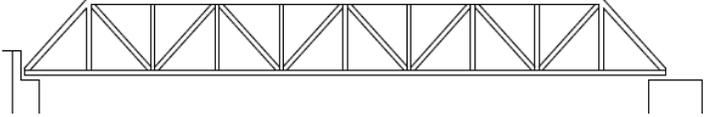
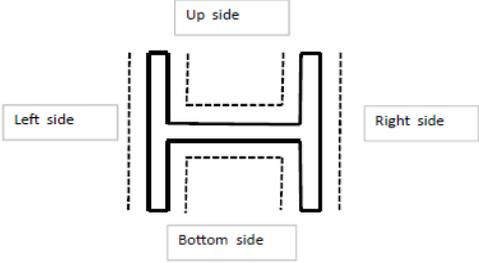
## Sketch of Bridge Condition Inspection Magapit Bridge

|                   |  |   |  |
|-------------------|--|---|--|
| Truss Chord       | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>  |  |  |
| S2.S4 (Left side) |  |   |  |
| <b>2TT-L</b>      |  | <b>3TT-L</b>  |  |
| Up side           |  | Up side   |  |
| Bottom side       |  | Bottom side   |  |
| Left side         |  | Left side   |  |
| Right side        |  | Right side  |  |
| <b>4TT-L</b>      |  | <b>5TT-L</b>  |  |
| Up side           |  | Up side   |  |
| Bottom side       |  | Bottom side   |  |
| Left side         |  | Left side   |  |
| Right side        |  | Right side  |  |

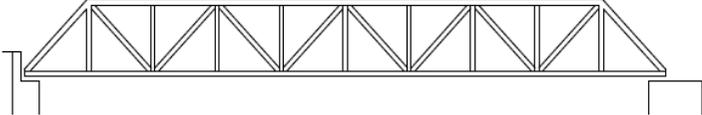
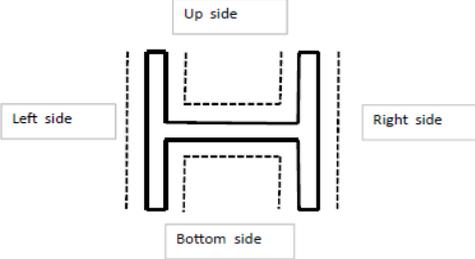
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
|---|--|---|--|-------------|--|-----------|--|------------|--|---|--|---------|--|-------------|--|-----------|--|------------|--|
| Truss Chord   | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>  |  |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| S2 .S4 (Left side)  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| <p><b>6TT-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> |  | Up side   |  | Bottom side |  | Left side |  | Right side |  | <p><b>7TT-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> |  | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Right side  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Up side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Right side  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| <p><b>8TT-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> |  | Up side   |  | Bottom side |  | Left side |  | Right side |  | <p><b>9TT-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> |  | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Right side  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Up side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Right side  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |

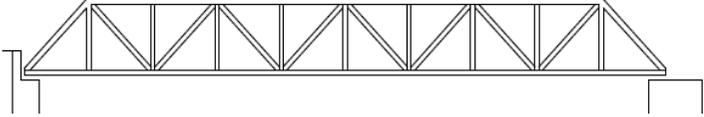
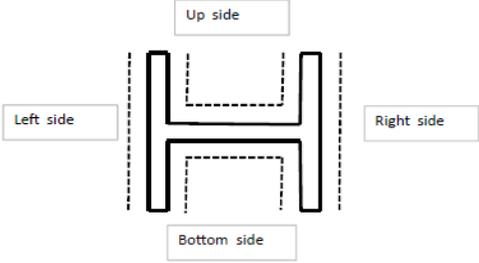
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |   |
|--|--|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Truss Chord</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">S2 .S4 (Right side)</div>  | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>    |  |
| <p><b>2TT-R</b></p> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> | <p><b>3TT-R</b></p> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> |   |
| <p><b>4TT-R</b></p> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> | <p><b>5TT-R</b></p> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> |   |

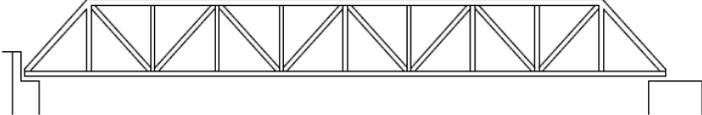
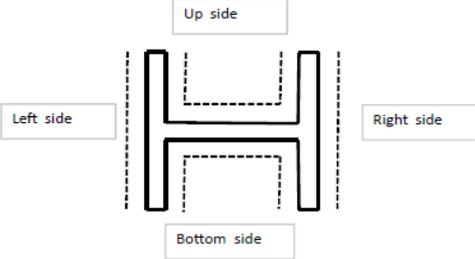
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
|---|--|---|--|-------------|--|-----------|--|------------|--|---|--|---------|--|-------------|--|-----------|--|------------|--|
| Truss Chord   | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>  |  |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| S2,S4 (Right side)  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| <p><b>6TT-R</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> |  | Up side   |  | Bottom side |  | Left side |  | Right side |  | <p><b>7TT-R</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> |  | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Right side  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Up side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Right side  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
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| Up side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Right side  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Up side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
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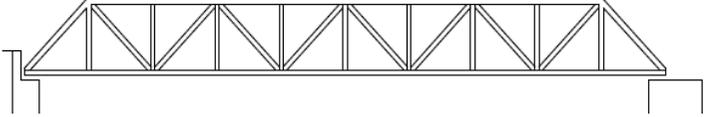
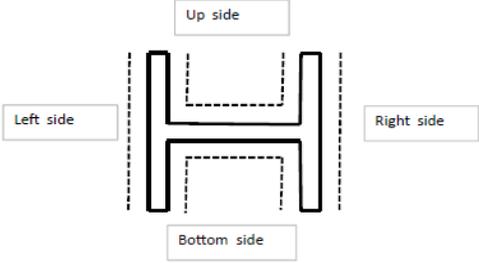
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
|---|--|---|--|---------|-----------|-------------|------------|-----------|--|------------|--|--|---------|-----------|-------------|------------|-----------|--|------------|--|--|---------|--|-------------|--|-----------|--|------------|--|--|---------|--|-------------|--|-----------|--|------------|--|
| Truss Chord   | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>  |  |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| S2.S4 (Left Side)   |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top; border: none;"> <p><b>1BT-L</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%; text-align: center;">Up Side</td><td style="width: 80%;"></td></tr> <tr><td style="text-align: center;">Bottom Side</td><td></td></tr> <tr><td style="text-align: center;">Left Side</td><td></td></tr> <tr><td style="text-align: center;">Right Side</td><td></td></tr> </table> </td> <td style="width: 50%; vertical-align: top; border: none;"> <p><b>2TB-L</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%; text-align: center;">Up Side</td><td style="width: 80%;"></td></tr> <tr><td style="text-align: center;">Bottom Side</td><td></td></tr> <tr><td style="text-align: center;">Left Side</td><td></td></tr> <tr><td style="text-align: center;">Right Side</td><td></td></tr> </table> </td> </tr> <tr> <td style="vertical-align: top; border: none;"> <p><b>3TB-L</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%; text-align: center;">Up Side</td><td style="width: 80%;"></td></tr> <tr><td style="text-align: center;">Bottom Side</td><td></td></tr> <tr><td style="text-align: center;">Left Side</td><td></td></tr> <tr><td style="text-align: center;">Right Side</td><td></td></tr> </table> </td> <td style="vertical-align: top; border: none;"> <p><b>4TB-L</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%; text-align: center;">Up Side</td><td style="width: 80%;"></td></tr> <tr><td style="text-align: center;">Bottom Side</td><td></td></tr> <tr><td style="text-align: center;">Left Side</td><td></td></tr> <tr><td style="text-align: center;">Right Side</td><td></td></tr> </table> </td> </tr> </table> |  |   | <p><b>1BT-L</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%; text-align: center;">Up Side</td><td style="width: 80%;"></td></tr> <tr><td style="text-align: center;">Bottom Side</td><td></td></tr> <tr><td style="text-align: center;">Left Side</td><td></td></tr> <tr><td style="text-align: center;">Right Side</td><td></td></tr> </table> | Up Side |           | Bottom Side |            | Left Side |  | Right Side |  | <p><b>2TB-L</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%; text-align: center;">Up Side</td><td style="width: 80%;"></td></tr> <tr><td style="text-align: center;">Bottom Side</td><td></td></tr> <tr><td style="text-align: center;">Left Side</td><td></td></tr> <tr><td style="text-align: center;">Right Side</td><td></td></tr> </table> | Up Side |           | Bottom Side |            | Left Side |  | Right Side |  | <p><b>3TB-L</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%; text-align: center;">Up Side</td><td style="width: 80%;"></td></tr> <tr><td style="text-align: center;">Bottom Side</td><td></td></tr> <tr><td style="text-align: center;">Left Side</td><td></td></tr> <tr><td style="text-align: center;">Right Side</td><td></td></tr> </table> | Up Side |  | Bottom Side |  | Left Side |  | Right Side |  | <p><b>4TB-L</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%; text-align: center;">Up Side</td><td style="width: 80%;"></td></tr> <tr><td style="text-align: center;">Bottom Side</td><td></td></tr> <tr><td style="text-align: center;">Left Side</td><td></td></tr> <tr><td style="text-align: center;">Right Side</td><td></td></tr> </table> | Up Side |  | Bottom Side |  | Left Side |  | Right Side |  |
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| Up Side   |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Left Side   |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Right Side  |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Up Side   |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Left Side   |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Right Side  |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| <p><b>3TB-L</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%; text-align: center;">Up Side</td><td style="width: 80%;"></td></tr> <tr><td style="text-align: center;">Bottom Side</td><td></td></tr> <tr><td style="text-align: center;">Left Side</td><td></td></tr> <tr><td style="text-align: center;">Right Side</td><td></td></tr> </table>  | Up Side  |   | Bottom Side  |         | Left Side |             | Right Side |           | <p><b>4TB-L</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%; text-align: center;">Up Side</td><td style="width: 80%;"></td></tr> <tr><td style="text-align: center;">Bottom Side</td><td></td></tr> <tr><td style="text-align: center;">Left Side</td><td></td></tr> <tr><td style="text-align: center;">Right Side</td><td></td></tr> </table> | Up Side    |  | Bottom Side  |         | Left Side |             | Right Side |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Up Side   |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Left Side   |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Right Side  |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Up Side   |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Left Side   |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Right Side  |  |   |  |         |           |             |            |           |  |            |  |  |         |           |             |            |           |  |            |  |  |         |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |

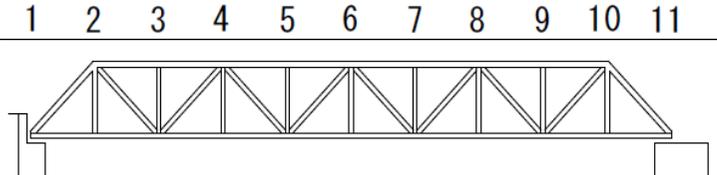
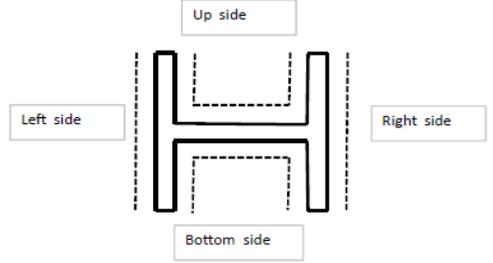
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
|---|--|---|--|-------------|--|-----------|--|------------|--|---|--|---------|--|-------------|--|-----------|--|------------|--|
| Truss Chord   | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>  |  |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| S2 .S4 (Left Side)  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| <p><b>5BT-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> |  | Up Side   |  | Bottom Side |  | Left Side |  | Right Side |  | <p><b>6TB-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> |  | Up Side |  | Bottom Side |  | Left Side |  | Right Side |  |
| Up Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Right Side  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Up Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Right Side  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| <p><b>7TB-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> |  | Up Side   |  | Bottom Side |  | Left Side |  | Right Side |  | <p><b>8TB-L</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; text-align: center;">Up Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Bottom Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Left Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">Right Side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> |  | Up Side |  | Bottom Side |  | Left Side |  | Right Side |  |
| Up Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Right Side  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Up Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Right Side  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |

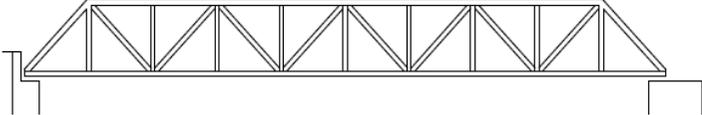
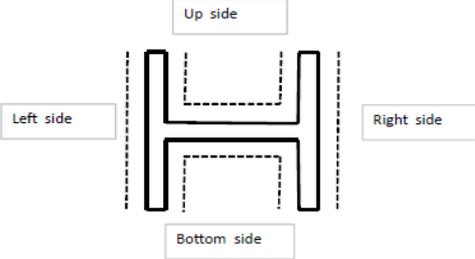
## Sketch of Bridge Condition Inspection Magapit Bridge

|                   |  |   |  |
|-------------------|--|---|--|
| Truss Chord       | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>  |  |  |
| S2.S4 (Left Side) |  |   |  |
| 9TB-L             |  | 10TB-L  |  |
| Up Side           |  | Up Side   |  |
| Bottom Side       |  | Bottom Side   |  |
| Left Side         |  | Left Side   |  |
| Right Side        |  | Right Side  |  |

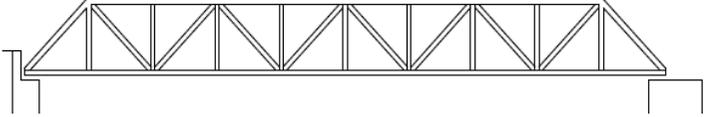
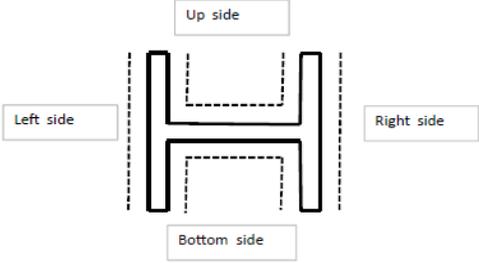
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
|---|--|---|-------------|--|-----------|--|------------|--|---|---------|--|-------------|--|-----------|--|------------|--|
| <div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Truss Chord</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">S2 .S4 (Right Side)</div>   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| <p><b>1BT-R</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up Side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom Side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left Side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right Side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up Side  |   | Bottom Side |  | Left Side |  | Right Side |  | <p><b>2TB-R</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up Side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom Side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left Side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right Side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up Side |  | Bottom Side |  | Left Side |  | Right Side |  |
| Up Side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left Side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right Side  |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Up Side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left Side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right Side  |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| <p><b>3TB-R</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up Side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom Side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left Side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right Side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up Side  |   | Bottom Side |  | Left Side |  | Right Side |  | <p><b>4TB-R</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up Side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom Side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right Side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up Side |  | Bottom Side |  | Left side |  | Right Side |  |
| Up Side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left Side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right Side  |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Up Side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side   |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right Side  |  |   |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |

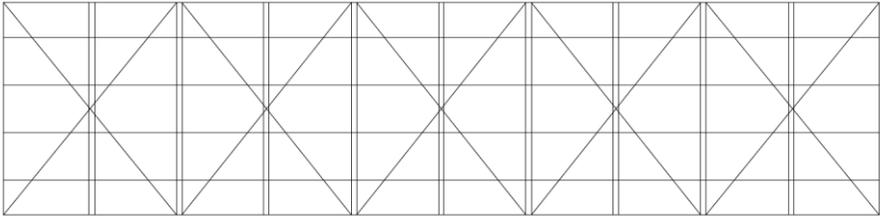
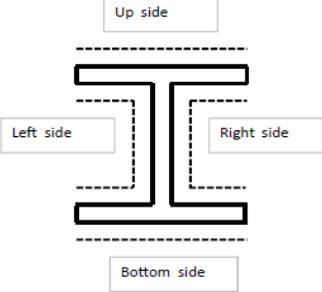
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
|---|--|---|--|-------------|--|-----------|--|------------|--|---|--|---------|--|-------------|--|-----------|--|------------|--|
| Truss Chord   | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>  |  |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| S2.S4 (Right Side)  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| <p><b>5BT-R</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center; border: 1px solid black;">Up Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="text-align: center; border: 1px solid black;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="text-align: center; border: 1px solid black;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="text-align: center; border: 1px solid black;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side   |  | Bottom Side |  | Left Side |  | Right Side |  | <p><b>6TB-R</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center; border: 1px solid black;">Up Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="text-align: center; border: 1px solid black;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="text-align: center; border: 1px solid black;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="text-align: center; border: 1px solid black;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side |  | Bottom Side |  | Left Side |  | Right Side |  |
| Up Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Right Side  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Up Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Right Side  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| <p><b>7TB-R</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center; border: 1px solid black;">Up Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="text-align: center; border: 1px solid black;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="text-align: center; border: 1px solid black;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="text-align: center; border: 1px solid black;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side   |  | Bottom Side |  | Left Side |  | Right Side |  | <p><b>8TB-R</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center; border: 1px solid black;">Up Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="text-align: center; border: 1px solid black;">Bottom Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="text-align: center; border: 1px solid black;">Left Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> <tr> <td style="text-align: center; border: 1px solid black;">Right Side</td> <td style="border: 1px solid black; height: 30px;"></td> </tr> </table> |  | Up Side |  | Bottom Side |  | Left Side |  | Right Side |  |
| Up Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Right Side  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Up Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Bottom Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Left Side   |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |
| Right Side  |  |   |  |             |  |           |  |            |  |   |  |         |  |             |  |           |  |            |  |

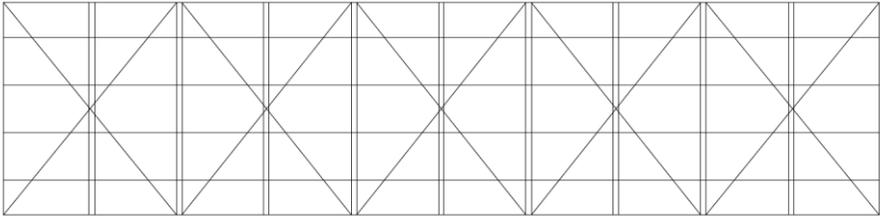
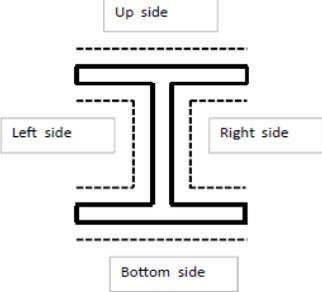
## Sketch of Bridge Condition Inspection Magapit Bridge

|                    |  |   |  |
|--------------------|--|---|--|
| Truss Chord        | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span><span>8</span><span>9</span><span>10</span><span>11</span> </div>  |  |  |
| S2.S4 (Right Side) |  |   |  |
| 9TB-R              |  | 10TB-R  |  |
| Up Side            |  | Up Side   |  |
| Bottom Side        |  | Bottom Side   |  |
| Left Side          |  | Left Side   |  |
| Right Side         |  | Right Side  |  |

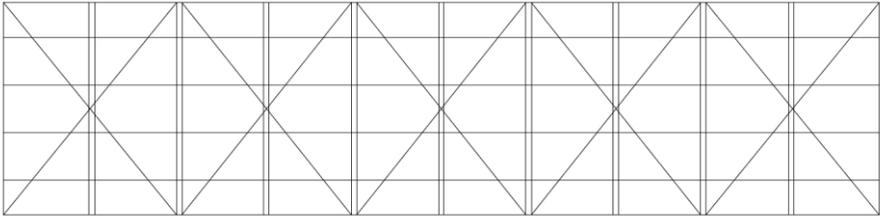
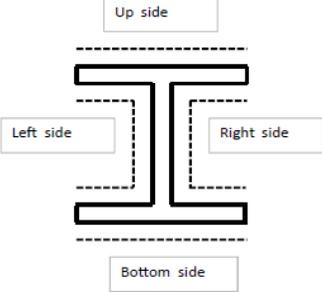
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |   |   |
|---|---|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Stringer of Pony Truss</div>   |   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S2, S4</div>   |   |   |
| ST1-SL1   | ST2-SL1   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 250px; height: 25px;" type="text"/>     | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 250px; height: 25px;" type="text"/>     |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 250px; height: 25px;" type="text"/> | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 250px; height: 25px;" type="text"/> |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 250px; height: 25px;" type="text"/>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 250px; height: 25px;" type="text"/>   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 250px; height: 25px;" type="text"/>  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 250px; height: 25px;" type="text"/>  |   |
| ST3-SL1   | ST4-SL1   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 250px; height: 25px;" type="text"/>     | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 250px; height: 25px;" type="text"/>     |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 250px; height: 25px;" type="text"/> | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 250px; height: 25px;" type="text"/> |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 250px; height: 25px;" type="text"/>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 250px; height: 25px;" type="text"/>   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 250px; height: 25px;" type="text"/>  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 250px; height: 25px;" type="text"/>  |   |

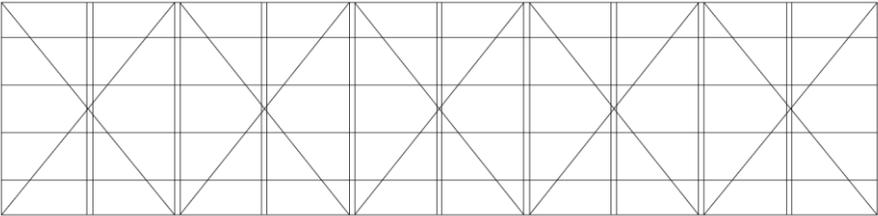
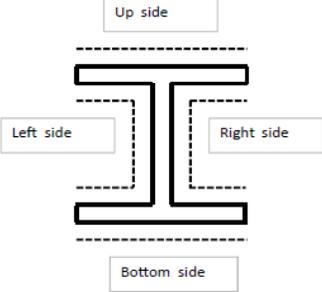
## Sketch of Bridge Condition Inspection Magapit Bridge

|                               |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
|-------------------------------|--|---|--|-------------|--|-----------|--|------------|--|--|---------|--|-------------|--|-----------|--|------------|--|
| <b>Stringer of Pony Truss</b> |    |  |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| S2, S4                        |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| ST1-SL2                       | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 15%; padding: 2px;">Up side</td><td style="height: 25px;"></td></tr> <tr><td style="padding: 2px;">Bottom side</td><td style="height: 25px;"></td></tr> <tr><td style="padding: 2px;">Left side</td><td style="height: 25px;"></td></tr> <tr><td style="padding: 2px;">Right side</td><td style="height: 25px;"></td></tr> </table> | Up side   |  | Bottom side |  | Left side |  | Right side |  | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 15%; padding: 2px;">Up side</td><td style="height: 25px;"></td></tr> <tr><td style="padding: 2px;">Bottom side</td><td style="height: 25px;"></td></tr> <tr><td style="padding: 2px;">Left side</td><td style="height: 25px;"></td></tr> <tr><td style="padding: 2px;">Right side</td><td style="height: 25px;"></td></tr> </table> | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side                       |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Bottom side                   |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Left side                     |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Right side                    |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Up side                       |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Bottom side                   |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Left side                     |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Right side                    |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| ST3-SL2                       | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 15%; padding: 2px;">Up side</td><td style="height: 25px;"></td></tr> <tr><td style="padding: 2px;">Bottom side</td><td style="height: 25px;"></td></tr> <tr><td style="padding: 2px;">Left side</td><td style="height: 25px;"></td></tr> <tr><td style="padding: 2px;">Right side</td><td style="height: 25px;"></td></tr> </table> | Up side   |  | Bottom side |  | Left side |  | Right side |  | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 15%; padding: 2px;">Up side</td><td style="height: 25px;"></td></tr> <tr><td style="padding: 2px;">Bottom side</td><td style="height: 25px;"></td></tr> <tr><td style="padding: 2px;">Left side</td><td style="height: 25px;"></td></tr> <tr><td style="padding: 2px;">Right side</td><td style="height: 25px;"></td></tr> </table> | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side                       |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Bottom side                   |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Left side                     |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Right side                    |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Up side                       |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Bottom side                   |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Left side                     |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Right side                    |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |

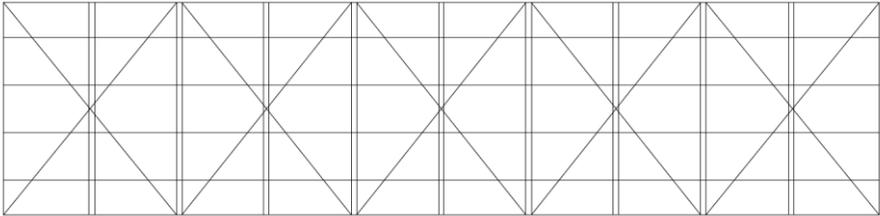
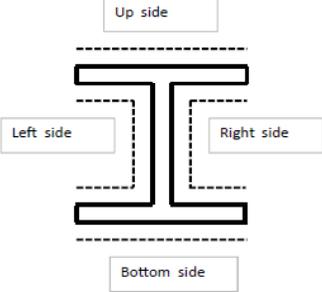
## Sketch of Bridge Condition Inspection Magapit Bridge

|                               |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
|-------------------------------|--|---|--|-------------|--|-----------|--|------------|--|--|---------|--|-------------|--|-----------|--|------------|--|
| <b>Stringer of Pony Truss</b> |    |  |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| S2, S4                        |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| ST1-SL3                       | <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Up side</td> <td></td> </tr> </table> <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Bottom side</td> <td></td> </tr> </table> <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Left side</td> <td></td> </tr> </table> <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Right side</td> <td></td> </tr> </table> | Up side   |  | Bottom side |  | Left side |  | Right side |  | <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Up side</td> <td></td> </tr> </table> <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Bottom side</td> <td></td> </tr> </table> <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Left side</td> <td></td> </tr> </table> <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Right side</td> <td></td> </tr> </table> | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side                       |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Bottom side                   |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Left side                     |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Right side                    |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Up side                       |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Bottom side                   |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Left side                     |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Right side                    |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| ST3-SL3                       | <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Up side</td> <td></td> </tr> </table> <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Bottom side</td> <td></td> </tr> </table> <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Left side</td> <td></td> </tr> </table> <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Right side</td> <td></td> </tr> </table> | Up side   |  | Bottom side |  | Left side |  | Right side |  | <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Up side</td> <td></td> </tr> </table> <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Bottom side</td> <td></td> </tr> </table> <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Left side</td> <td></td> </tr> </table> <table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%; padding: 2px;">Right side</td> <td></td> </tr> </table> | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side                       |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Bottom side                   |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Left side                     |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Right side                    |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Up side                       |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Bottom side                   |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Left side                     |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |
| Right side                    |  |   |  |             |  |           |  |            |  |  |         |  |             |  |           |  |            |  |

## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |   |
|--|--|--|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Stringer of Pony Truss</div>  |  |                       |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">S2, S4</div>      |  |  |   |
| ST1-SL4  | ST2-SL4  |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Up side</div>     | <input style="width: 100%; height: 20px;" type="text"/>                            | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Up side</div>     | <input style="width: 100%; height: 20px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Bottom side</div> | <input style="width: 100%; height: 20px;" type="text"/>                            | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Bottom side</div> | <input style="width: 100%; height: 20px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Left side</div>   | <input style="width: 100%; height: 20px;" type="text"/>                            | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Left side</div>   | <input style="width: 100%; height: 20px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Right side</div>  | <input style="width: 100%; height: 20px;" type="text"/>                            | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Right side</div>  | <input style="width: 100%; height: 20px;" type="text"/> |
| ST3-SL4  | ST4-SL4  |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Up side</div>     | <input style="width: 100%; height: 20px;" type="text"/>                            | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Up side</div>     | <input style="width: 100%; height: 20px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Bottom side</div> | <input style="width: 100%; height: 20px;" type="text"/>                            | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Bottom side</div> | <input style="width: 100%; height: 20px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Left side</div>   | <input style="width: 100%; height: 20px;" type="text"/>                            | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Left side</div>   | <input style="width: 100%; height: 20px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Right side</div>  | <input style="width: 100%; height: 20px;" type="text"/>                            | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 80%;">Right side</div>  | <input style="width: 100%; height: 20px;" type="text"/> |

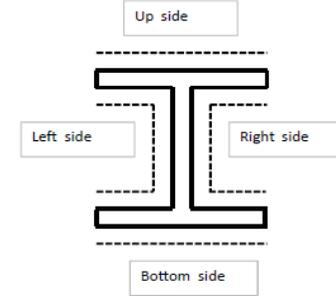
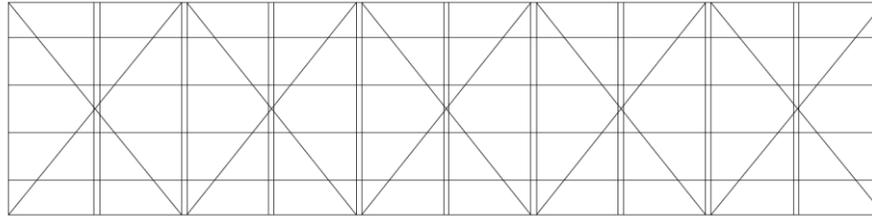
## Sketch of Bridge Condition Inspection Magapit Bridge

|                               |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
|-------------------------------|---|---|--|-------------|--|-----------|--|------------|--|---|---------|--|-------------|--|-----------|--|------------|--|
| <b>Stringer of Pony Truss</b> |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| S2, S4                        |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| ST1-SL5                       | <table border="1" style="width: 100%; height: 100%;"> <tr><td style="width: 15%; padding: 2px;">Up side</td><td style="width: 85%;"></td></tr> <tr><td style="padding: 2px;">Bottom side</td><td></td></tr> <tr><td style="padding: 2px;">Left side</td><td></td></tr> <tr><td style="padding: 2px;">Right side</td><td></td></tr> </table> | Up side   |  | Bottom side |  | Left side |  | Right side |  | <table border="1" style="width: 100%; height: 100%;"> <tr><td style="width: 15%; padding: 2px;">Up side</td><td style="width: 85%;"></td></tr> <tr><td style="padding: 2px;">Bottom side</td><td></td></tr> <tr><td style="padding: 2px;">Left side</td><td></td></tr> <tr><td style="padding: 2px;">Right side</td><td></td></tr> </table> | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side                       |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side                   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side                     |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side                    |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Up side                       |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side                   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side                     |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side                    |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| ST3-SL5                       | <table border="1" style="width: 100%; height: 100%;"> <tr><td style="width: 15%; padding: 2px;">Up side</td><td style="width: 85%;"></td></tr> <tr><td style="padding: 2px;">Bottom side</td><td></td></tr> <tr><td style="padding: 2px;">Left side</td><td></td></tr> <tr><td style="padding: 2px;">Right side</td><td></td></tr> </table> | Up side   |  | Bottom side |  | Left side |  | Right side |  | <table border="1" style="width: 100%; height: 100%;"> <tr><td style="width: 15%; padding: 2px;">Up side</td><td style="width: 85%;"></td></tr> <tr><td style="padding: 2px;">Bottom side</td><td></td></tr> <tr><td style="padding: 2px;">Left side</td><td></td></tr> <tr><td style="padding: 2px;">Right side</td><td></td></tr> </table> | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side                       |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side                   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side                     |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side                    |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Up side                       |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side                   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side                     |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side                    |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |

## Sketch of Bridge Condition Inspection Magapit Bridge

Cross Beam of Pony  
Truss

S2, S4



CB-1

Up side

Bottom side

Left side

Right side

CB-2

Up side

Bottom side

Left side

Right side

CB-3

Up side

Bottom side

Left side

Right side

CB-4

Up side

Bottom side

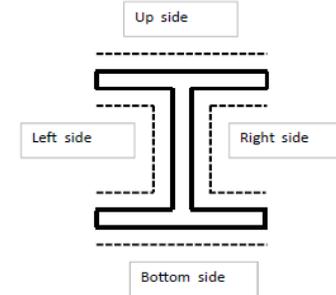
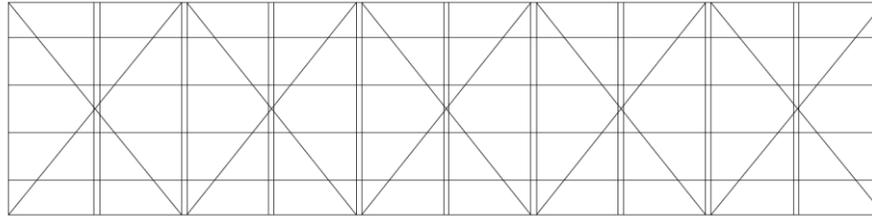
Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Cross Beam of Pony  
Truss

S2, S4



CB-5

Up side

Bottom side

Left side

Right side

CB-6

Up side

Bottom side

Left side

Right side

CB-7

Up side

Bottom side

Left side

Right side

CB-8

Up side

Bottom side

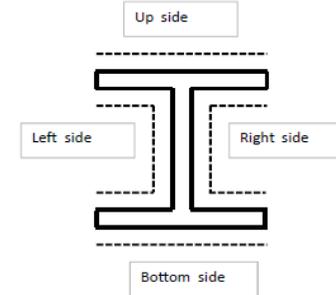
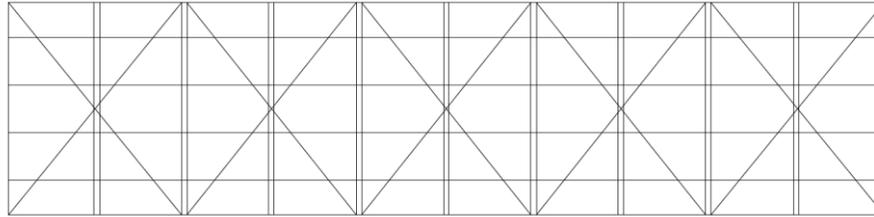
Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Cross Beam of Pony  
Truss

S2, S4



CB-9

Up side

Bottom side

Left side

Right side

CB-10

Up side

Bottom side

Left side

Right side

CB-11

Up side

Bottom side

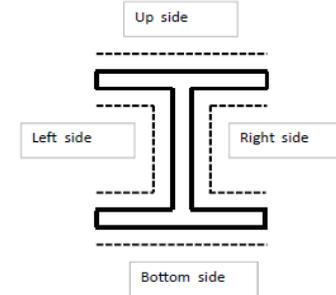
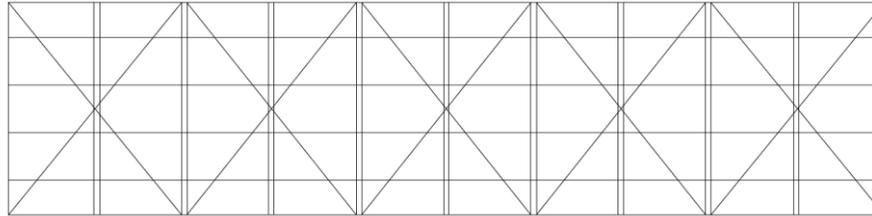
Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Lateral Bottom of  
Pony Truss

S2, S4



1LB-L

Up side

Bottom side

Left side

Right side

1LB-R

Up side

Bottom side

Left side

Right side

2LB-L

Up side

Bottom side

Left side

Right side

2LB-R

Up side

Bottom side

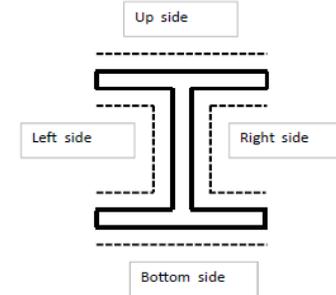
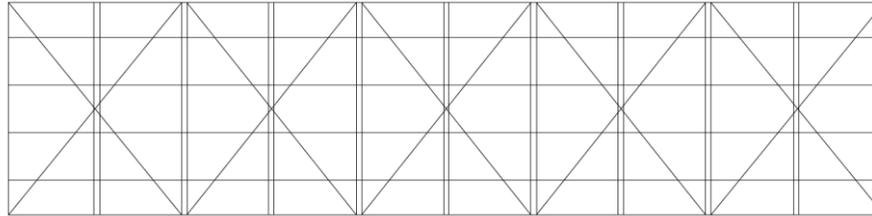
Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Lateral Bottom of  
Pony Truss

S2, S4



3LB-L

Up side

Bottom side

Left side

Right side

3LB-R

Up side

Bottom side

Left side

Right side

4LB-L

Up side

Bottom side

Left side

Right side

4LB-R

Up side

Bottom side

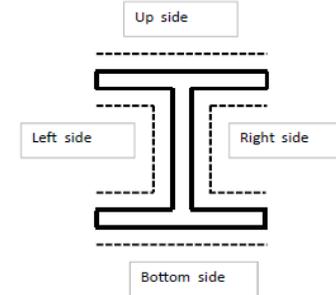
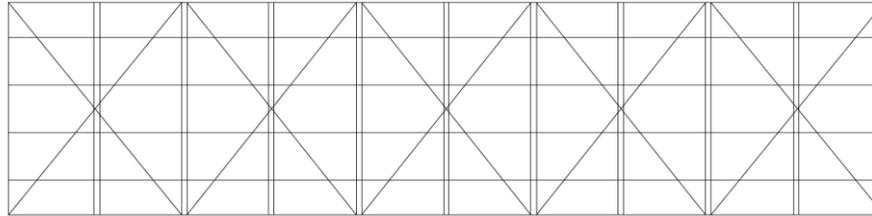
Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Lateral Bottom of  
Pony Truss

S2, S4



5LB-L

Up side

Bottom side

Left side

Right side

5LB-R

Up side

Bottom side

Left side

Right side

4LB-L

Up side

Bottom side

Left side

Right side

4LB-R

Up side

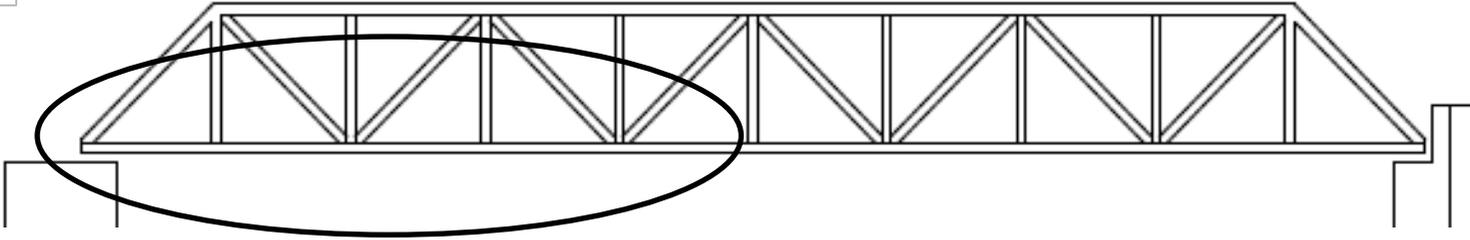
Bottom side

Left side

Right side

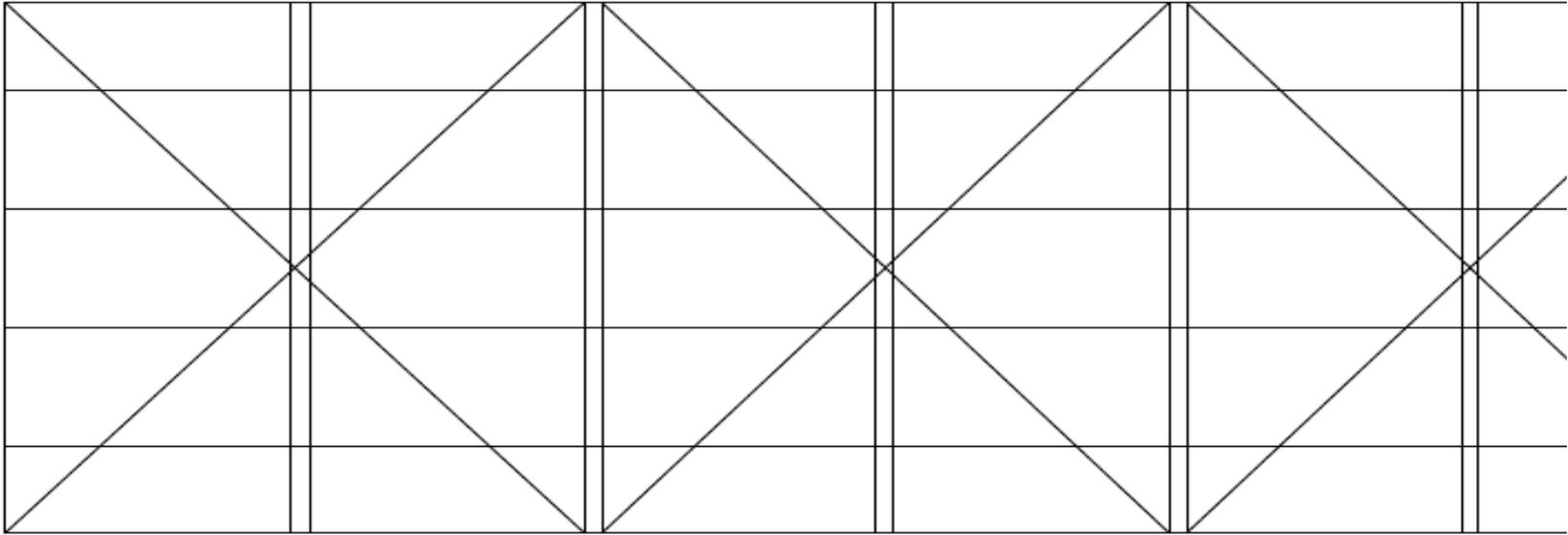
**Sketch of Bridge Conditon Inspection  
Magapit Bridge**

S2.S4



Deck Slab

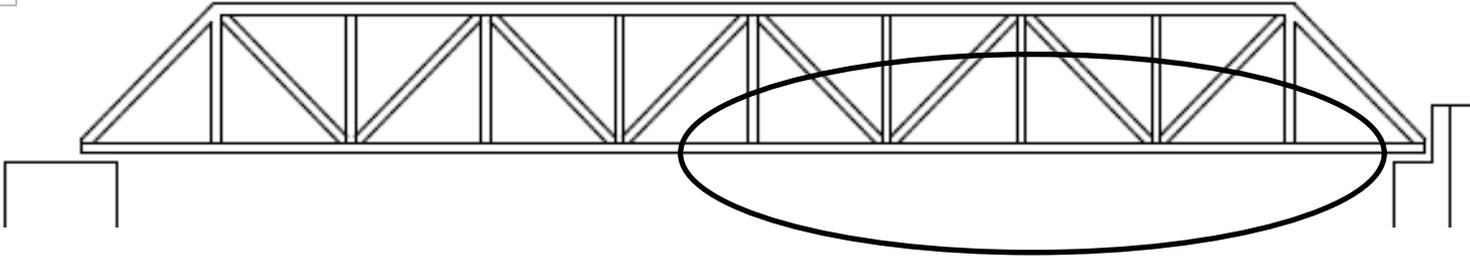
Right side



Left side

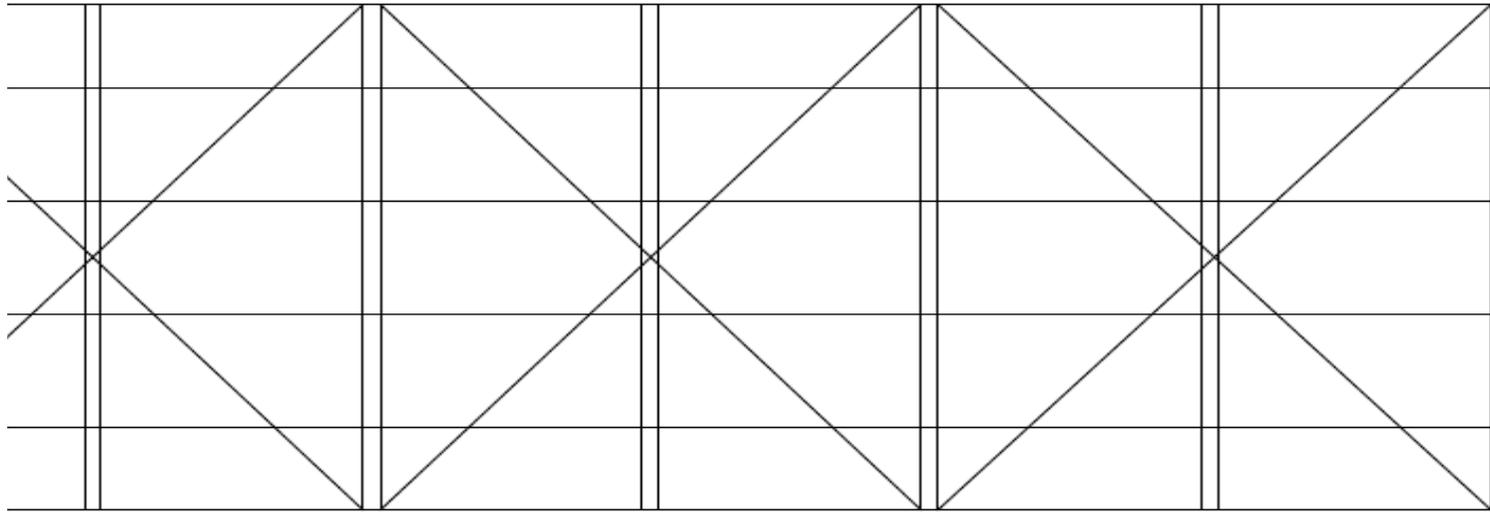
**Sketch of Bridge Conditon Inspection  
Magapit Bridge**

S2 .S4



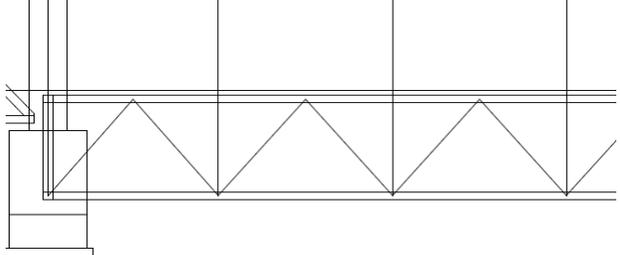
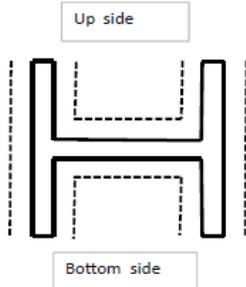
Deck Slab

Right side

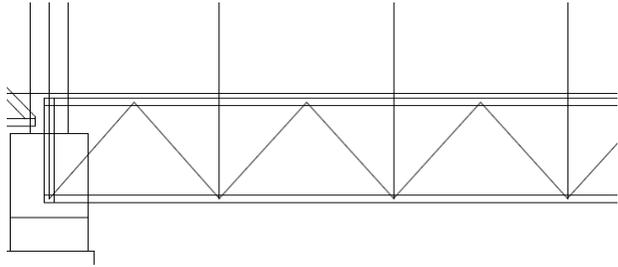
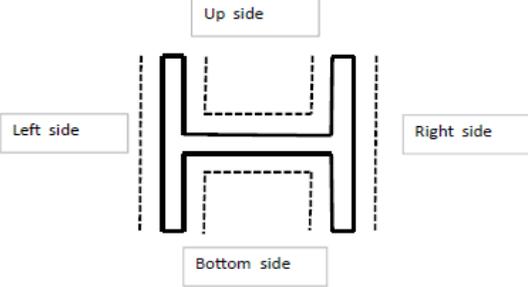


Left side

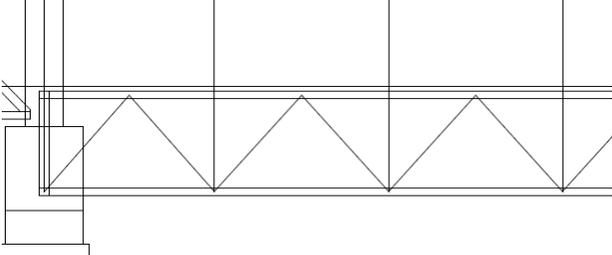
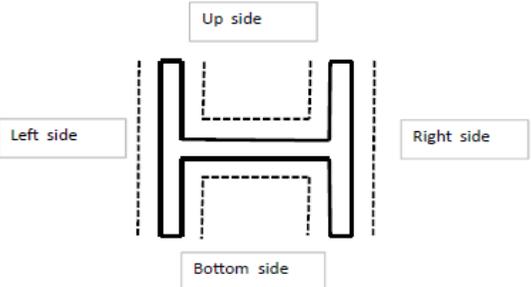
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |   |
|--|--|--|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |          |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> |
| <b>1V-L or R</b>   |  |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           | <input style="width: 95%;" type="text"/>   | <b>1TT-L or R</b>  | <input style="width: 95%;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       | <input style="width: 95%;" type="text"/>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     | <input style="width: 95%;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         | <input style="width: 95%;" type="text"/>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> | <input style="width: 95%;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        | <input style="width: 95%;" type="text"/>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   | <input style="width: 95%;" type="text"/>  |
|  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  | <input style="width: 95%;" type="text"/>  |
| <b>1D1-L or R</b>  |  |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           | <input style="width: 95%;" type="text"/>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     | <input style="width: 95%;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       | <input style="width: 95%;" type="text"/>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> | <input style="width: 95%;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         | <input style="width: 95%;" type="text"/>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   | <input style="width: 95%;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        | <input style="width: 95%;" type="text"/>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  | <input style="width: 95%;" type="text"/>  |

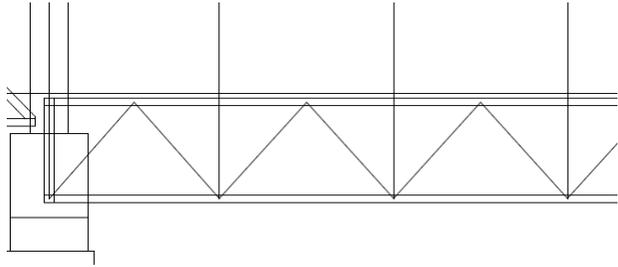
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |
|---|--|---|
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Truss Member of Suspension Bridge</div> |  |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">S3(Left or Right side)</div>            |  |   |
| 1TB-L or R  |  |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div>                           | <input style="width: 100%; height: 20px;" type="text"/>                            |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div>                       | <input style="width: 100%; height: 20px;" type="text"/>                            |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div>                         | <input style="width: 100%; height: 20px;" type="text"/>                            |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div>                        | <input style="width: 100%; height: 20px;" type="text"/>                            |   |

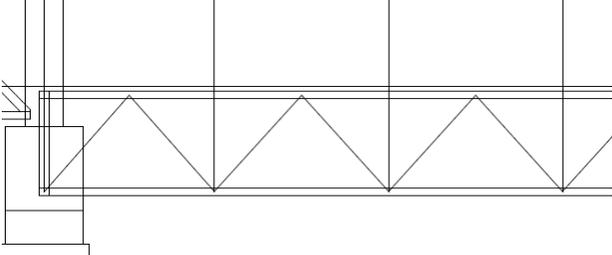
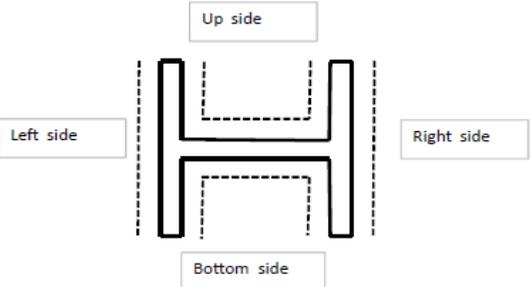
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |
|---|--|---|
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Truss Member of Suspension Bridge</div>                                   |  |    |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">S3(Left or Right side)</div>  |  |   |
| 2V-L or R   |  | 2TT-L or R  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>     |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>  |
| 2D1-L or R  |  | 2D2-L or R  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>     |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>  |

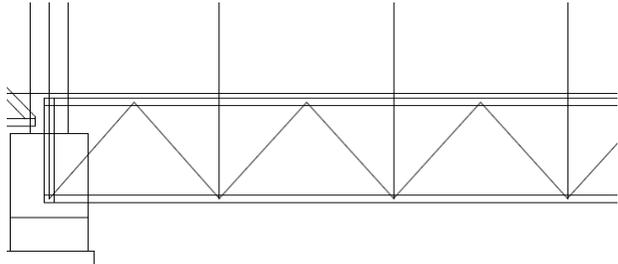
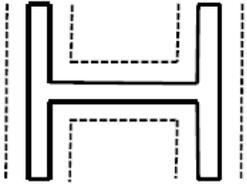
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |
|---|--|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Truss Member of<br/>Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="border: 1px dashed black; padding: 2px;">Left side</div> <div style="border: 1px solid black; padding: 2px;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; text-align: center; margin-top: 10px;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">S3(Left or Right side)</div>                |  |   |
| 2TB-L or R  |  |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                               | <input style="width: 100%; height: 20px;" type="text"/>                            |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                           | <input style="width: 100%; height: 20px;" type="text"/>                            |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                             | <input style="width: 100%; height: 20px;" type="text"/>                            |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                            | <input style="width: 100%; height: 20px;" type="text"/>                            |   |

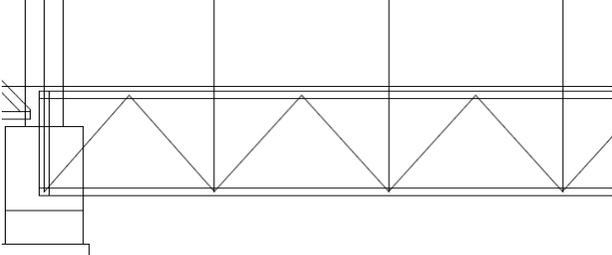
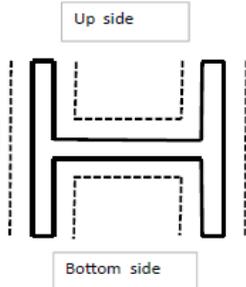
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |   |
|--|--|--|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |          |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> |
| 3V-L or R  |  |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |   |
| 3D1-L or R   |  |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |   |
| 3TT-L or R   |  |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |   |
| 3D2-L or R   |  |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |   |

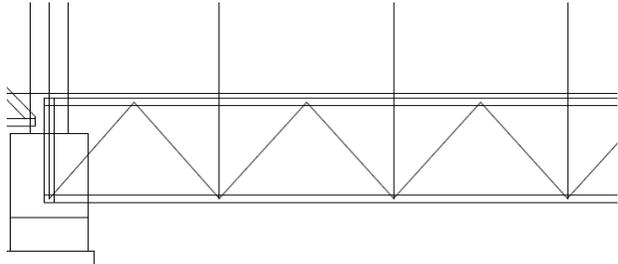
**Sketch of Bridge Condition Inspection  
Magapit Bridge**

|   |  |   |
|---|--|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Truss Member of<br/>Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div> <div style="display: flex; justify-content: space-between; align-items: center;"><div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div><div style="border: 1px solid black; padding: 2px;"></div><div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div></div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |
| S3(Left or Right side)  |  |   |
| 3TB-L or R  |  |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                               |  |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                           |  |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                             |  |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                            |  |   |

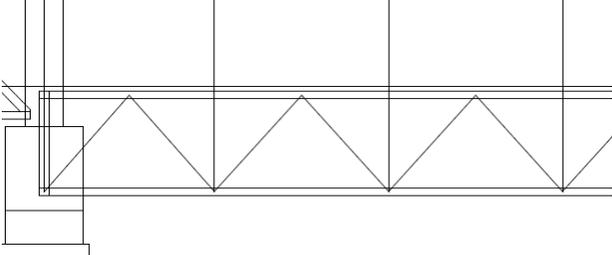
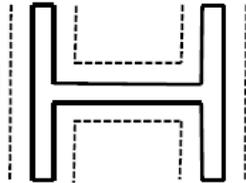
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |
|---|--|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div>  |  | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">Up side</div>  <div style="border: 1px solid black; padding: 2px;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px; text-align: center;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>   |  |   |
| 4 V-L or R  |  | 4 T-L or R  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| 4 D1-L or R   |  | 4 D2-L or R   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |

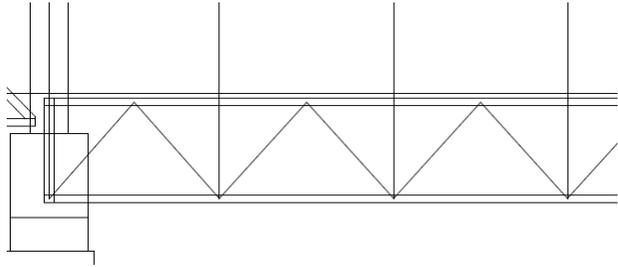
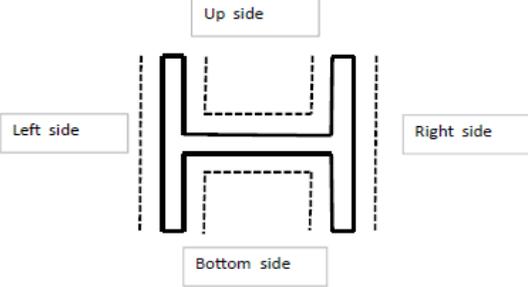
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |
|---|--|---|
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Up side</div> <div style="display: flex; justify-content: space-between; width: 100%; margin: 5px 0;"> <div style="border: 1px dashed black; width: 100%; height: 100%;"></div> </div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Left side</div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Right side</div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">S3(Left or Right side)</div>            |  |   |
| <p style="text-align: center;">4 TB-L or R</p>  |  |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div>                           |  |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div>                       |  |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div>                         |  |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div>                        |  |   |

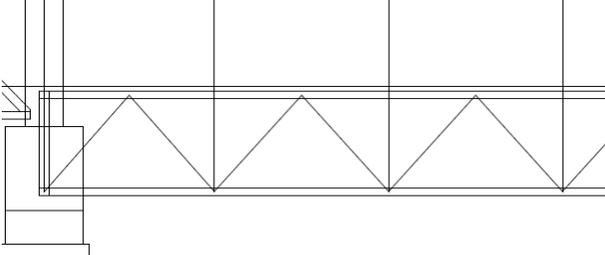
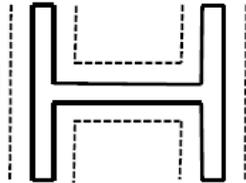
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |   |
|--|--|--|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |          |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> |
| 5 V-L or R   |  |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |   |
| 5 D1-L or R  |  |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |   |
| 5 D2-L or R  |  |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |   |

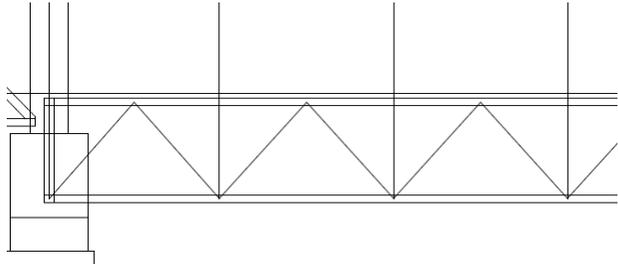
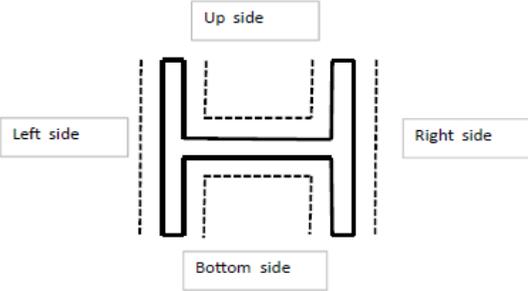
# Sketch of Bridge Condition Inspection Magapit Bridge

|                                      |  |   |
|--------------------------------------|--|---|
| Truss Member of<br>Suspension Bridge |  |  |
| S3(Left or Right side)               |  |   |
| 5 TB-L or R                          |  |   |
| Up side                              | <input type="text"/>   |   |
| Bottom side                          | <input type="text"/>   |   |
| Left side                            | <input type="text"/>   |   |
| Right side                           | <input type="text"/>   |   |

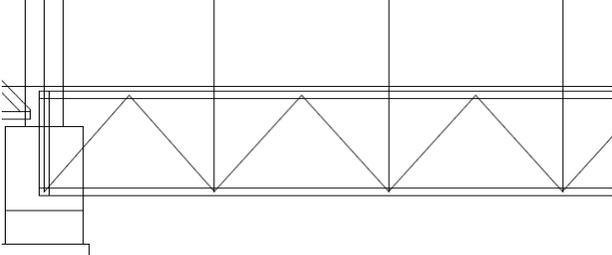
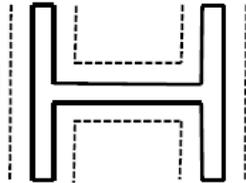
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |  |
|--|--|--|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> </div>  <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 10px; width: 100px; margin: 0 auto;">Bottom side</div> |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            | <p>6 V-L or R</p>  | <p>6 T-L or R</p>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  | <input style="width: 95%; height: 25px;" type="text"/> |
| <p>6 D1-L or R</p>   |  | <p>6 D2-L or R</p>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  | <input style="width: 95%; height: 25px;" type="text"/> |

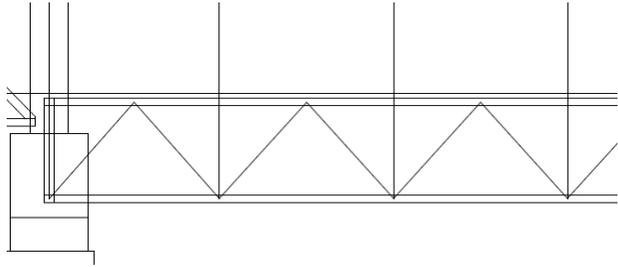
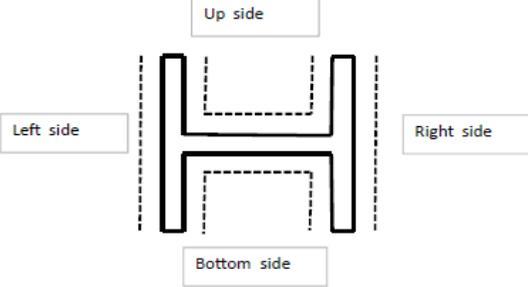
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |
|---|--|---|
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Truss Member of Suspension Bridge</div> |  |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">S3(Left or Right side)</div>            |  |   |
| <div style="text-align: center;">6 TB-L or R</div>  |  |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div>                           |  |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div>                       |  |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div>                         |  |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div>                        |  |   |

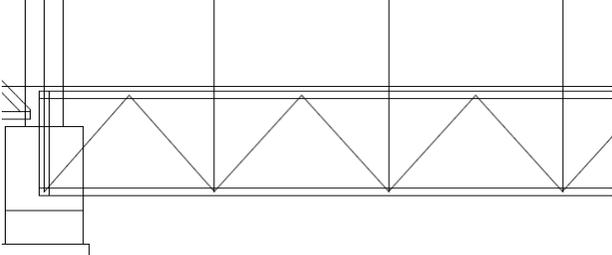
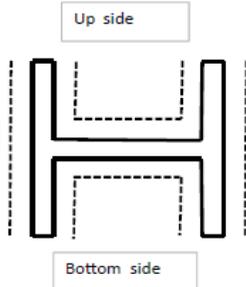
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |  |
|--|--|--|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            | <p>7 V-L or R</p>  | <p>7 T-L or R</p>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  | <input style="width: 95%; height: 25px;" type="text"/> |
| <p>7 D1-L or R</p>   |  | <p>7 D2-L or R</p>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  | <input style="width: 95%; height: 25px;" type="text"/> |

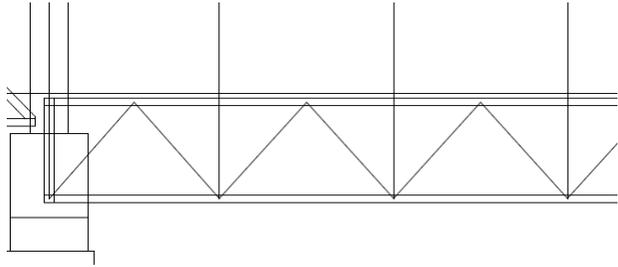
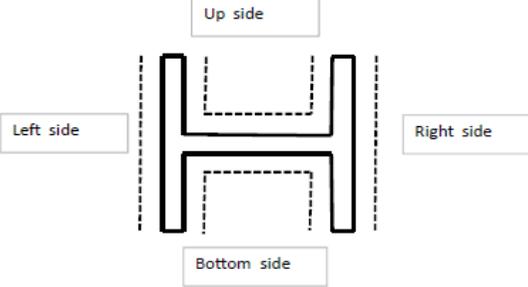
# Sketch of Bridge Condition Inspection Magapit Bridge

|                                      |  |   |
|--------------------------------------|--|---|
| Truss Member of<br>Suspension Bridge |  |  |
| S3(Left or Right side)               |  |   |
| 7 TB-L or R                          |  |   |
| Up side                              | <input type="text"/>   |   |
| Bottom side                          | <input type="text"/>   |   |
| Left side                            | <input type="text"/>   |   |
| Right side                           | <input type="text"/>   |   |

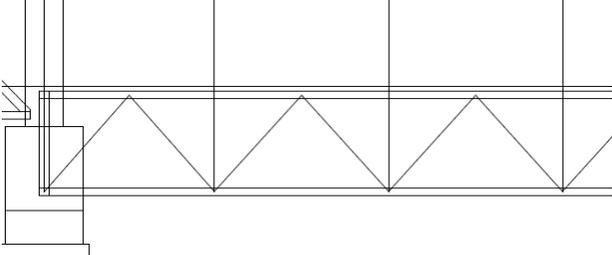
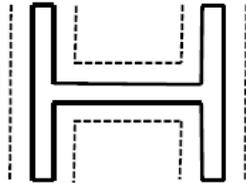
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |   |
|--|--|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div>  <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 5px;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            |  |   |
| 8 V-L or R   |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           | <input style="width: 95%; height: 25px;" type="text"/>                             | 8 T-L or R  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  |
|  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>   |
|  |  |   |
| 8 D1-L or R  |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           | <input style="width: 95%; height: 25px;" type="text"/>                             | 8 D2-L or R   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  |
|  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>   |
|  |  |   |

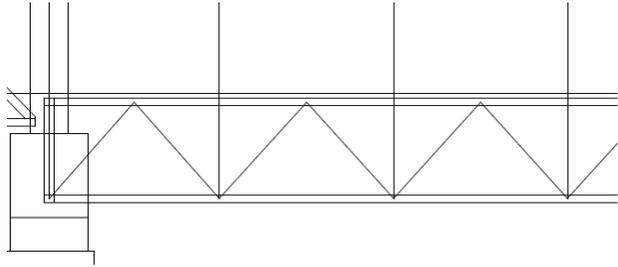
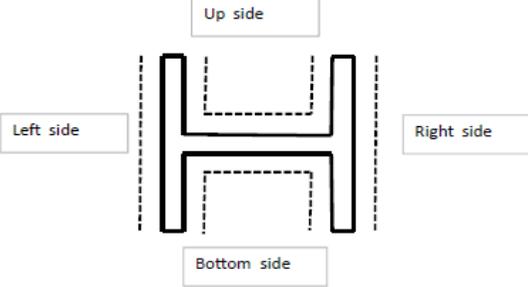
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |   |             |  |           |  |            |  |  |  |
|--|--|---|-------------|--|-----------|--|------------|--|--|--|
| <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">Truss Member of Suspension Bridge</div>  |  |  |             |  |           |  |            |  |  |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">S3(Left or Right side)</div>   |  |   |             |  |           |  |            |  |  |  |
| <div style="text-align: center; margin-bottom: 5px;">8 TB-L or R</div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; padding: 2px; border: 1px solid black;">Up side</td> <td style="border: 1px solid black; height: 20px;"></td> </tr> <tr> <td style="padding: 2px; border: 1px solid black;">Bottom side</td> <td style="border: 1px solid black; height: 20px;"></td> </tr> <tr> <td style="padding: 2px; border: 1px solid black;">Left side</td> <td style="border: 1px solid black; height: 20px;"></td> </tr> <tr> <td style="padding: 2px; border: 1px solid black;">Right side</td> <td style="border: 1px solid black; height: 20px;"></td> </tr> </table> | Up side  |   | Bottom side |  | Left side |  | Right side |  |  |  |
| Up side  |  |   |             |  |           |  |            |  |  |  |
| Bottom side  |  |   |             |  |           |  |            |  |  |  |
| Left side  |  |   |             |  |           |  |            |  |  |  |
| Right side   |  |   |             |  |           |  |            |  |  |  |

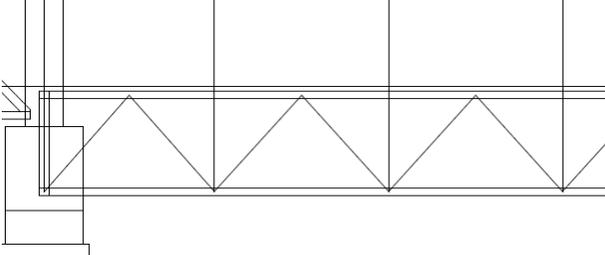
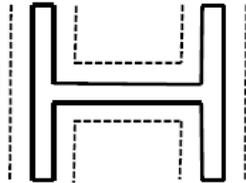
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |  |
|--|--|--|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> </div>  <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 10px; text-align: center;">Bottom side</div> |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            | <p>9 V-L or R</p>  | <p>9 T-L or R</p>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |  |
| <p>9 D1-L or R</p>   |  | <p>9 D2-L or R</p>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |  |

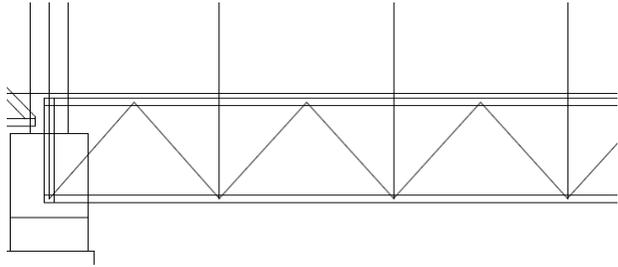
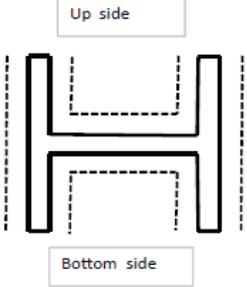
**Sketch of Bridge Condition Inspection  
Magapit Bridge**

|  |  |   |
|--|--|---|
| <b>Truss Member of<br/>Suspension Bridge</b> |  |  |
| S3(Left or Right side)                       |  |   |
| 9 TB-L or R                                  |  |   |
| Up side                                      | <input type="text"/>   |   |
| Bottom side                                  | <input type="text"/>   |   |
| Left side                                    | <input type="text"/>   |   |
| Right side                                   | <input type="text"/>   |   |

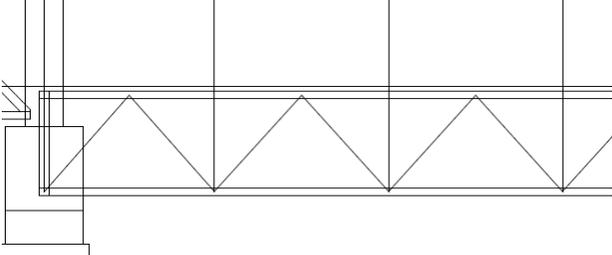
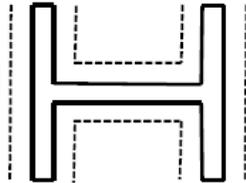
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |  |
|---|--|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div>  |  | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div>  <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</div> </div> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>   |  |  |
| 10 V-L or R   |  | 10 T-L or R  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| 10 D1-L or R  |  | 10 D2-L or R   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |

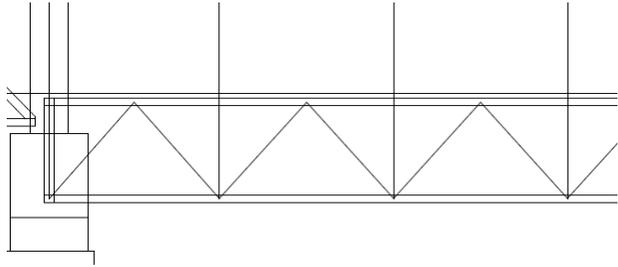
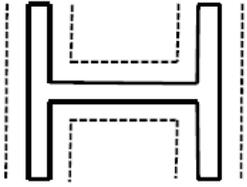
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |
|--|--|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            |  |  |
| 10 TB-L or R   |  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        | <input style="width: 100%; height: 20px;" type="text"/>                            |  |

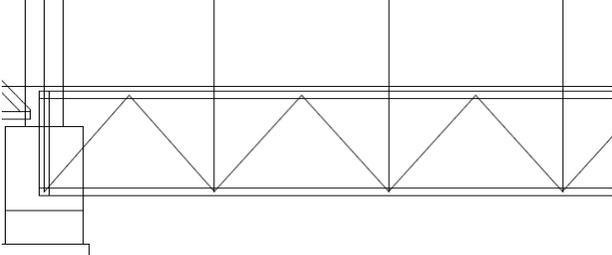
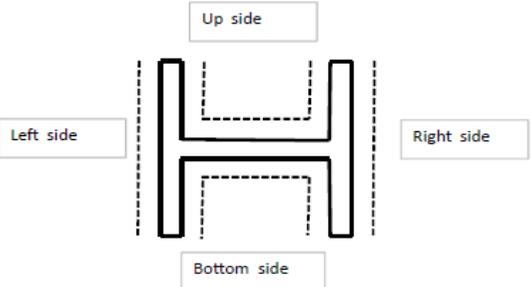
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
|---|---|---|--|-------------|--|-----------|--|------------|--|---|---------|--|-------------|--|-----------|--|------------|--|
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Truss Member of Suspension Bridge</div> |   | <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> </div>  <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 10px; width: fit-content; margin-left: auto; margin-right: auto;">Bottom side</div> |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">S3(Left or Right side)</div>            | <p>11 V-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table>  | Up side   |  | Bottom side |  | Left side |  | Right side |  | <p>11 T-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table>  | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Up side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
|   | <p>11 D1-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side   |  | Bottom side |  | Left side |  | Right side |  | <p>11 D2-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Up side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |

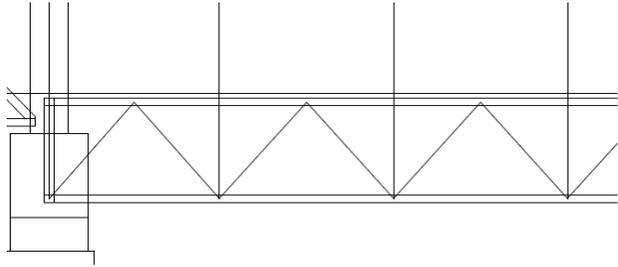
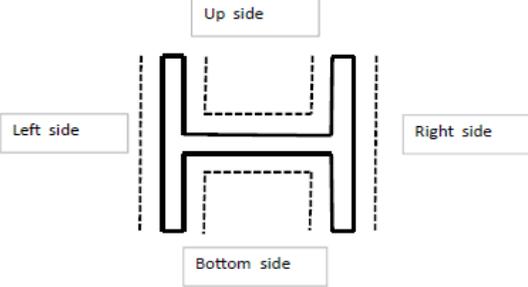
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |  |
|---|--|--|
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Up side</div> <div style="display: flex; justify-content: space-between; width: 100%; margin: 5px 0;"> <div style="border: 1px solid black; padding: 2px; width: 20%;">Left side</div>  <div style="border: 1px solid black; padding: 2px; width: 20%;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">S3(Left or Right side)</div>            |  |  |
| <p style="text-align: center;">11 TB-L or R</p>   |  |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div>                           | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div>                       | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div>                         | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div>                        | <input style="width: 100%; height: 20px;" type="text"/>                            |  |

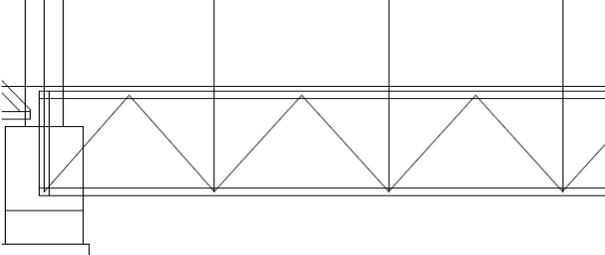
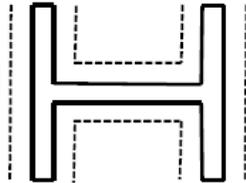
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |
|---|--|---|
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Truss Member of Suspension Bridge</div>                                   |  |    |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">S3(Left or Right side)</div>  |  |   |
| 12 V-L or R   |  | 12 T-L or R   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>     |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>  |
| 12 D1-L or R  |  | 12 D2-L or R  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>     |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>  |

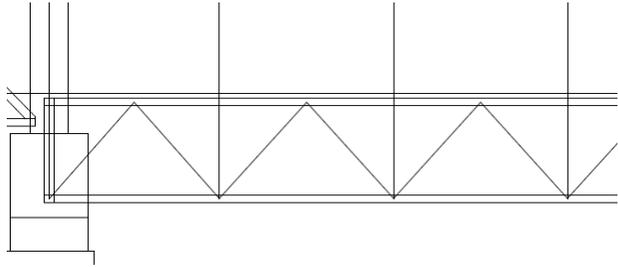
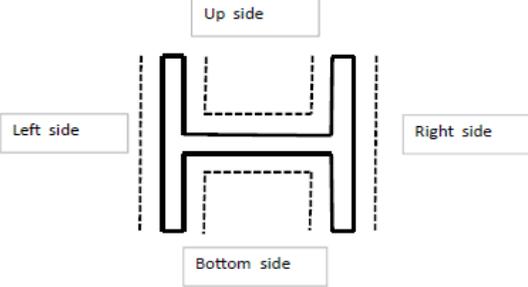
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |
|---|--|---|
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Truss Member of Suspension Bridge</div> |  |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">S3(Left or Right side)</div>            |  |   |
| <p style="text-align: center;">12 TB-L or R</p>   |  |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div>                           | <input style="width: 95%; height: 20px;" type="text"/>                             |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div>                       | <input style="width: 95%; height: 20px;" type="text"/>                             |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div>                         | <input style="width: 95%; height: 20px;" type="text"/>                             |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div>                        | <input style="width: 95%; height: 20px;" type="text"/>                             |   |

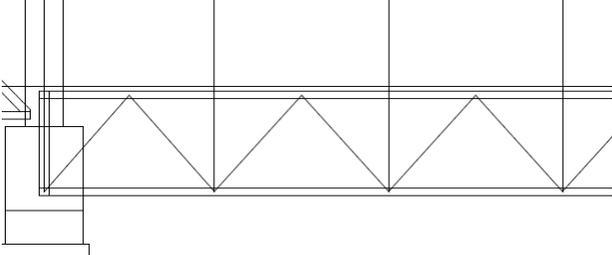
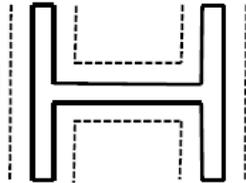
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |  |
|---|--|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div>                                    |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>   |  |  |
| 13 V-L or R   |  | 13 T-L or R  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 250px; height: 25px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 250px; height: 25px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 250px; height: 25px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 250px; height: 25px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 250px; height: 25px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 250px; height: 25px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 250px; height: 25px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 250px; height: 25px;" type="text"/>   |
| 13 D1-L or R  |  | 13 D2-L or R   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 250px; height: 25px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 250px; height: 25px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 250px; height: 25px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 250px; height: 25px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 250px; height: 25px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 250px; height: 25px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 250px; height: 25px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 250px; height: 25px;" type="text"/>   |

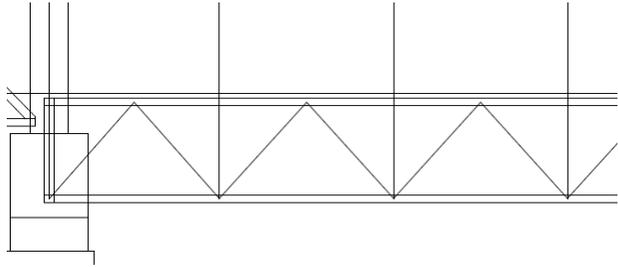
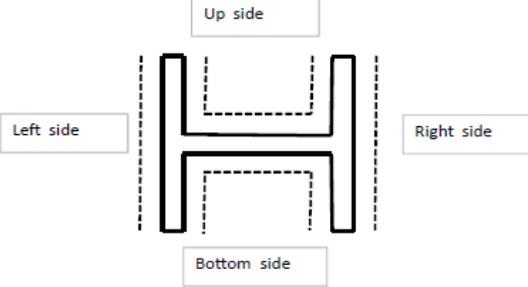
**Sketch of Bridge Condition Inspection  
Magapit Bridge**

|   |  |  |
|---|--|--|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Truss Member of<br/>Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>  <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div> |
| S3(Left or Right side)  |  |  |
| 13 TB-L or R  |  |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                               | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                           | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                             | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                            | <input style="width: 100%; height: 20px;" type="text"/>                            |  |

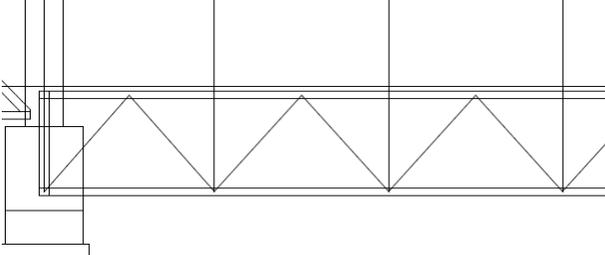
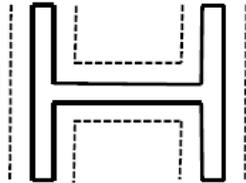
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
|---|--|--|-------------|-------------|-----------|-----------|------------|------------|---|--|---------|-------------|-------------|-----------|-----------|------------|------------|--|
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Truss Member of Suspension Bridge</div>   |    | <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto 5px auto;">Up side</div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto 5px auto;">Left side</div>  <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto 5px auto;">Right side</div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto 5px auto;">Bottom side</div> |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">S3(Left or Right side)</div>  | <p style="text-align: center;">14 V-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side  |             | Bottom side |           | Left side |            | Right side |   | <p style="text-align: center;">14 T-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side |             | Bottom side |           | Left side |            | Right side |  |
| Up side   |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Up side   |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| <p style="text-align: center;">14 D1-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side  |  | Bottom side |             | Left side |           | Right side |            | <p style="text-align: center;">14 D2-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side  |         | Bottom side |             | Left side |           | Right side |            |  |
| Up side   |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Up side   |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |  |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |

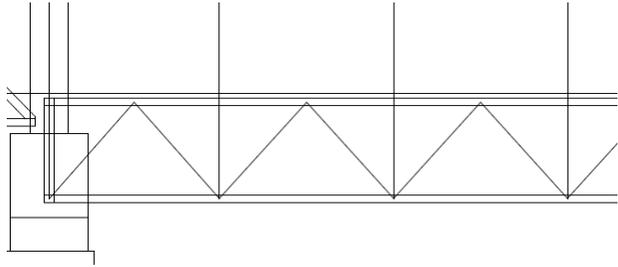
**Sketch of Bridge Condition Inspection  
Magapit Bridge**

|                                   |  |   |
|-----------------------------------|--|---|
| Truss Member of Suspension Bridge |  |  |
| S3(Left or Right side)            |  |   |
| 14 TB-L or R                      |  |   |
| Up side                           | <input type="text"/>   |   |
| Bottom side                       | <input type="text"/>   |   |
| Left side                         | <input type="text"/>   |   |
| Right side                        | <input type="text"/>   |   |

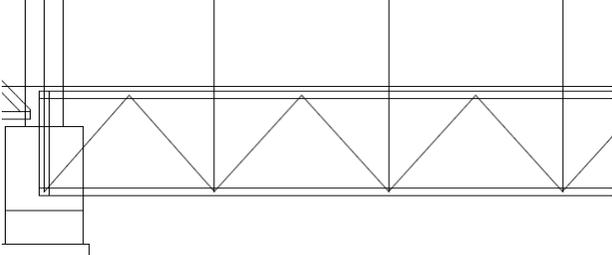
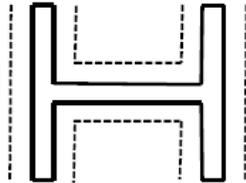
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |  |
|--|--|--|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |        | <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> </div>  <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</div> </div> |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            | <p>15 V-L or R</p>   | <p>15 T-L or R</p>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |  |
| <p>15 D1-L or R</p>  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |  |

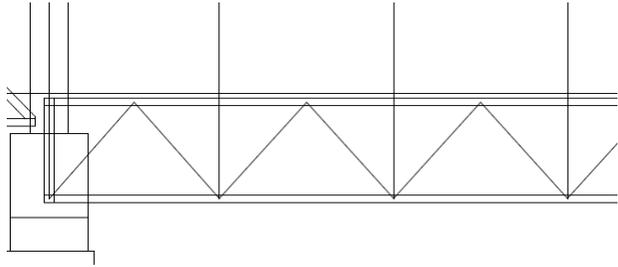
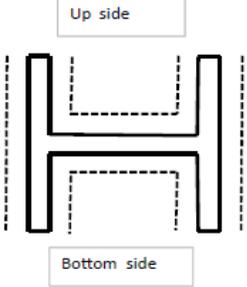
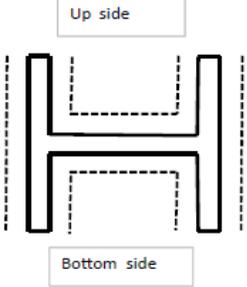
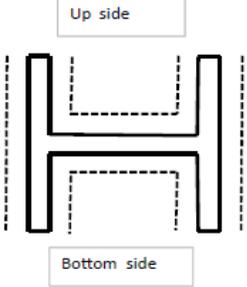
**Sketch of Bridge Condition Inspection  
Magapit Bridge**

|   |  |  |
|---|--|--|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Truss Member of<br/>Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |
| S3(Left or Right side)  |  |  |
| 15 TB-L or R  |  |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                               | <input style="width: 95%; height: 25px;" type="text"/>                             |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                           | <input style="width: 95%; height: 25px;" type="text"/>                             |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                             | <input style="width: 95%; height: 25px;" type="text"/>                             |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                            | <input style="width: 95%; height: 25px;" type="text"/>                             |  |

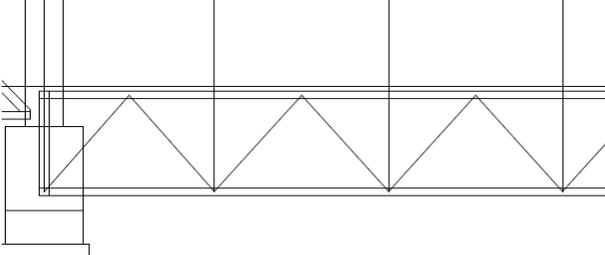
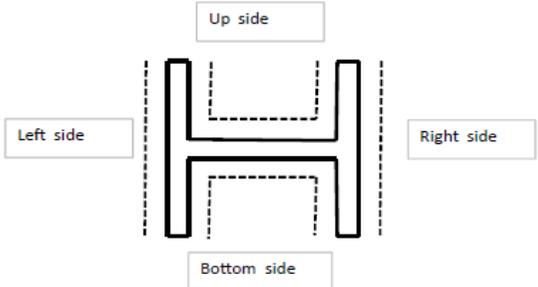
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |   |
|--|--|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div>   |  | <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> </div>  <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 5px;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>  |  |   |
| <p style="text-align: center; font-size: small;">16 V-L or R</p>   |  | <p style="text-align: center; font-size: small;">16 T-L or R</p>  |
| <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/>   |
| <p style="text-align: center; font-size: small;">16 D1-L or R</p>  |  | <p style="text-align: center; font-size: small;">16 D2-L or R</p>   |
| <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 2px;" type="text"/>   |

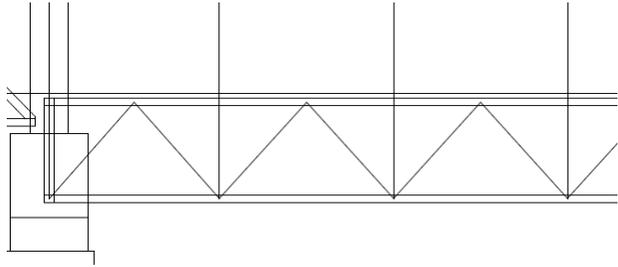
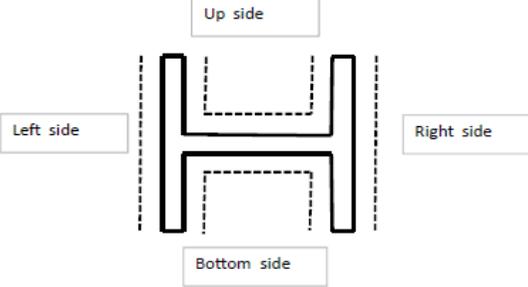
**Sketch of Bridge Condition Inspection  
Magapit Bridge**

|  |   |             |             |  |           |  |            |  |  |  |         |  |            |           |   |             |
|--|---|-------------|-------------|--|-----------|--|------------|--|--|--|---------|--|------------|-----------|---|-------------|
| <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">Truss Member of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">S3(Left or Right side)</div> <p style="text-align: center;">16 TB-L or R</p> <table style="width: 100%;"><tr><td style="border: 1px solid black; padding: 5px; width: 15%;">Up side</td><td style="border: 1px solid black; width: 85%;"></td></tr><tr><td style="border: 1px solid black; padding: 5px;">Bottom side</td><td style="border: 1px solid black;"></td></tr><tr><td style="border: 1px solid black; padding: 5px;">Left side</td><td style="border: 1px solid black;"></td></tr><tr><td style="border: 1px solid black; padding: 5px;">Right side</td><td style="border: 1px solid black;"></td></tr></table> | Up side   |             | Bottom side |  | Left side |  | Right side |  |  | <table style="width: 100%;"><tr><td style="border: 1px solid black; padding: 5px; width: 15%;">Up side</td><td style="width: 70%;"></td><td style="border: 1px solid black; padding: 5px; width: 15%;">Right side</td></tr><tr><td style="border: 1px solid black; padding: 5px;">Left side</td><td style="text-align: center;"></td><td style="border: 1px solid black; padding: 5px;">Bottom side</td></tr></table> | Up side |  | Right side | Left side |  | Bottom side |
| Up side  |   |             |             |  |           |  |            |  |  |  |         |  |            |           |   |             |
| Bottom side  |   |             |             |  |           |  |            |  |  |  |         |  |            |           |   |             |
| Left side  |   |             |             |  |           |  |            |  |  |  |         |  |            |           |   |             |
| Right side   |   |             |             |  |           |  |            |  |  |  |         |  |            |           |   |             |
| Up side  |   | Right side  |             |  |           |  |            |  |  |  |         |  |            |           |   |             |
| Left side  |  | Bottom side |             |  |           |  |            |  |  |  |         |  |            |           |   |             |

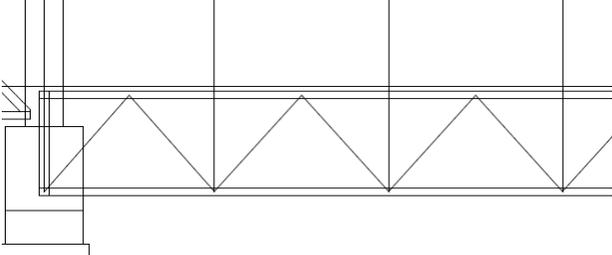
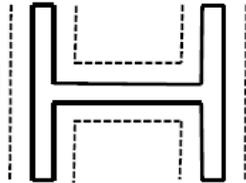
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
|---|--|---|-------------|-------------|-----------|-----------|------------|------------|---|--|---------|-------------|-------------|-----------|-----------|------------|------------|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div>  |    | <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> </div>  <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 10px; width: fit-content; margin-left: auto; margin-right: auto;">Bottom side</div> |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>   | <p>17 V-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side   |             | Bottom side |           | Left side |            | Right side |   | <p>17 T-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side |             | Bottom side |           | Left side |            | Right side |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| <p>17 D1-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side  |   | Bottom side |             | Left side |           | Right side |            | <p>17 D2-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side  |         | Bottom side |             | Left side |           | Right side |            |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |

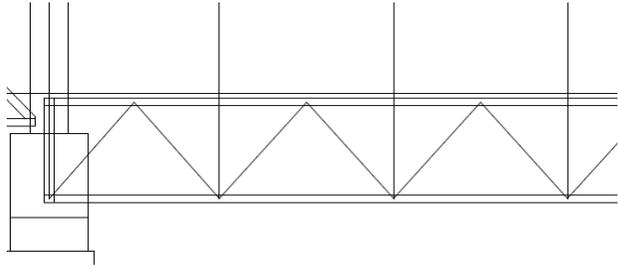
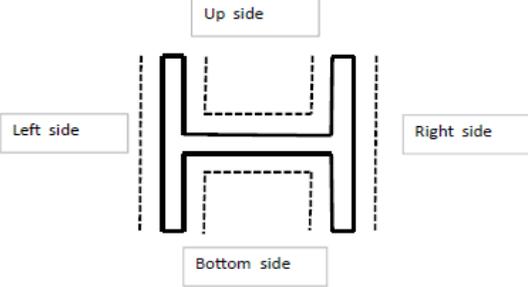
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |  |
|---|--|--|
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Truss Member of Suspension Bridge</div> |  | <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">Up side</div> <div style="border: 1px solid black; padding: 2px;">Left side</div> </div>  <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">Bottom side</div> <div style="border: 1px solid black; padding: 2px;">Right side</div> </div> |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">S3(Left or Right side)</div>            |  |  |
| <p style="text-align: center;">17 TB-L or R</p>   |  |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div>                           | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div>                       | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div>                         | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div>                        | <input style="width: 100%; height: 20px;" type="text"/>                            |  |

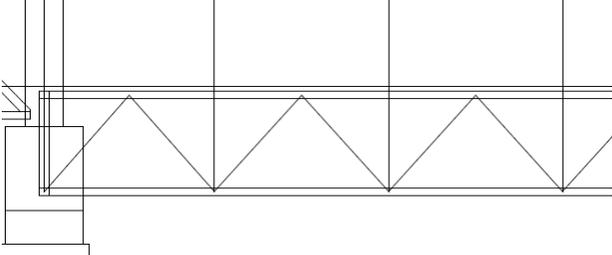
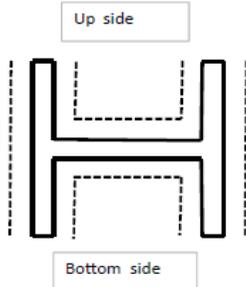
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |  |
|---|--|--|
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Truss Member of Suspension Bridge</div>                                   |  | <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto 5px auto;">Up side</div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto 5px auto;">Left side</div>  <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto 5px auto;">Right side</div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto 5px auto;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">S3(Left or Right side)</div>  |  |  |
| 18 V-L or R   |  | 18 T-L or R  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>   |
| 18 D1-L or R  |  | 18 D2-L or R   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>   |

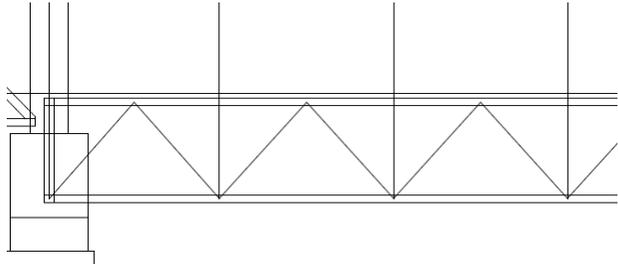
**Sketch of Bridge Condition Inspection  
Magapit Bridge**

|   |         |  |             |  |           |  |            |  |  |   |
|---|---------|--|-------------|--|-----------|--|------------|--|--|---|
| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; text-align: center;">Truss Member of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; text-align: center;">S3(Left or Right side)</div> <p style="text-align: center;">18 TB-L or R</p> <table style="width: 100%; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px; text-align: center;">Up side</td><td style="border: 1px solid black; height: 20px;"></td></tr><tr><td style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</td><td style="border: 1px solid black; height: 20px;"></td></tr><tr><td style="border: 1px solid black; padding: 2px; text-align: center;">Left side</td><td style="border: 1px solid black; height: 20px;"></td></tr><tr><td style="border: 1px solid black; padding: 2px; text-align: center;">Right side</td><td style="border: 1px solid black; height: 20px;"></td></tr></table> | Up side |  | Bottom side |  | Left side |  | Right side |  |  |  |
| Up side   |         |  |             |  |           |  |            |  |  |   |
| Bottom side   |         |  |             |  |           |  |            |  |  |   |
| Left side   |         |  |             |  |           |  |            |  |  |   |
| Right side  |         |  |             |  |           |  |            |  |  |   |

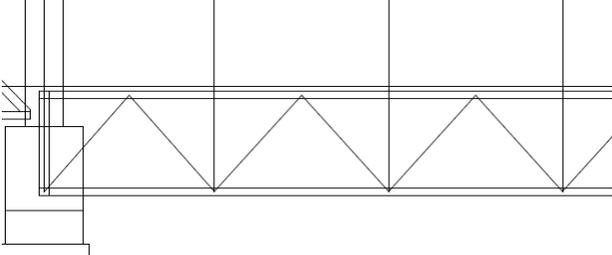
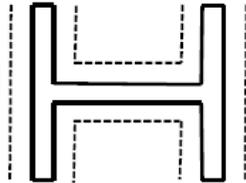
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |
|---|--|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div>  |  | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div>  <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 5px;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>   |  |   |
| 19 V-L or R   |  | 19 T-L or R   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| 19 D1-L or R  |  | 19 D2-L or R  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |

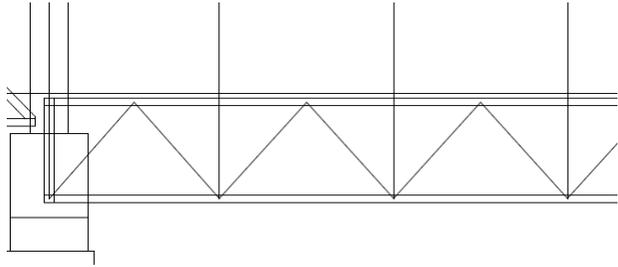
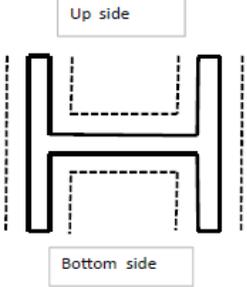
**Sketch of Bridge Condition Inspection  
Magapit Bridge**

|   |  |  |
|---|--|--|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Truss Member of<br/>Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |
| S3(Left or Right side)  |  |  |
| 19 TB-L or R  |  |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                               | <div style="border: 1px solid black; height: 20px;"></div>                         |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                           | <div style="border: 1px solid black; height: 20px;"></div>                         |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                             | <div style="border: 1px solid black; height: 20px;"></div>                         |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                            | <div style="border: 1px solid black; height: 20px;"></div>                         |  |

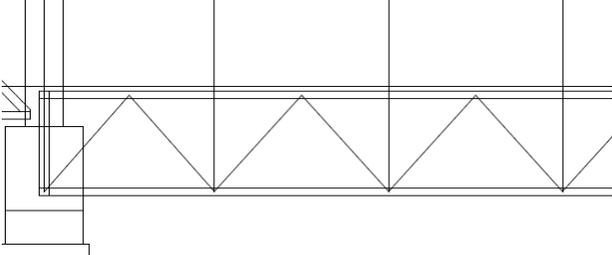
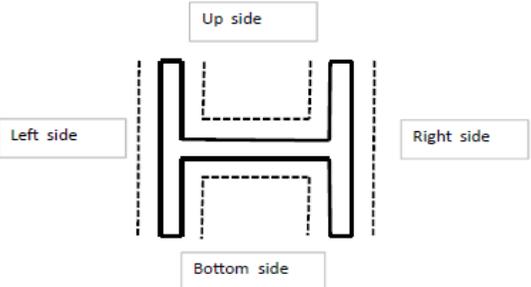
## Sketch of Bridge Conditon Inspection Magapit Bridge

|  |  |  |  |
|--|--|--|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            | <p>20 V-L or R</p>   | <p>20 T-L or R</p>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  | <input style="width: 95%; height: 25px;" type="text"/> |
| <p>20 D1-L or R</p>  |  | <p>20 D2-L or R</p>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   | <input style="width: 95%; height: 25px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        | <input style="width: 95%; height: 25px;" type="text"/>                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  | <input style="width: 95%; height: 25px;" type="text"/> |

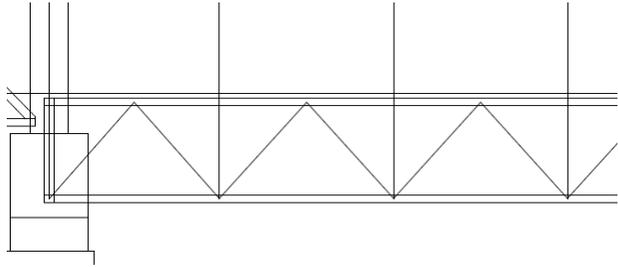
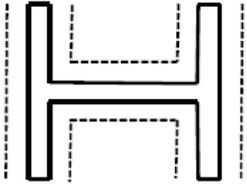
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |
|--|--|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            |  |  |
| 20 TB-L or R   |  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        | <input style="width: 100%; height: 20px;" type="text"/>                            |  |

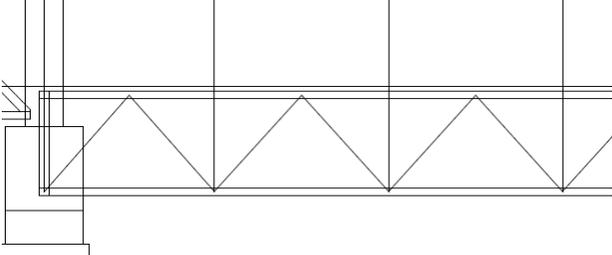
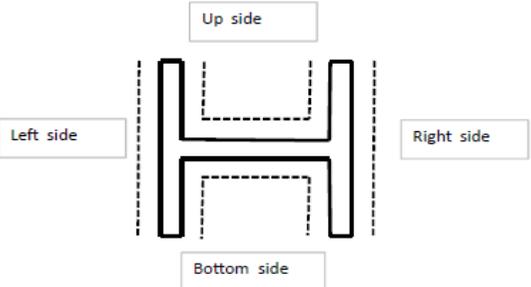
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
|---|--|---|-------------|-------------|-----------|-----------|------------|------------|---|--|---------|-------------|-------------|-----------|-----------|------------|------------|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div>  |    | <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> </div>  <div style="display: flex; justify-content: space-between; align-items: center; font-size: small;"> <div style="border: 1px solid black; padding: 2px;">Left side</div> <div style="border: 1px solid black; padding: 2px;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 5px;">Bottom side</div> |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>   | <p>21 V-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side   |             | Bottom side |           | Left side |            | Right side |   | <p>21 T-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side |             | Bottom side |           | Left side |            | Right side |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| <p>21 D1-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side  |   | Bottom side |             | Left side |           | Right side |            | <p>21 D2-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side  |         | Bottom side |             | Left side |           | Right side |            |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |

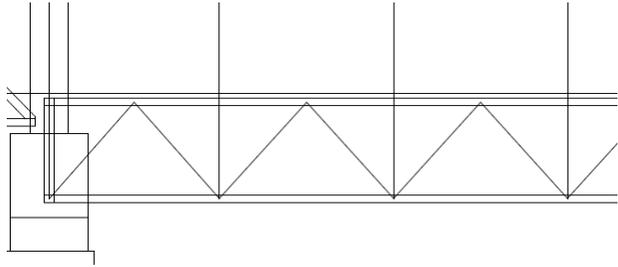
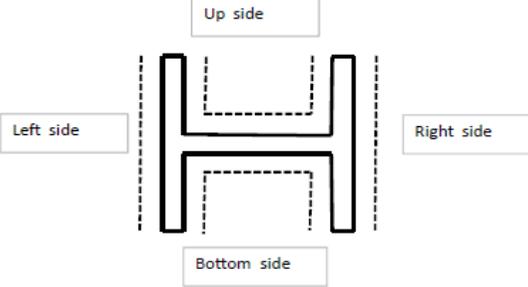
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |
|--|--|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            |  |  |
| 21 TB-L or R   |  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        | <input style="width: 100%; height: 20px;" type="text"/>                            |  |

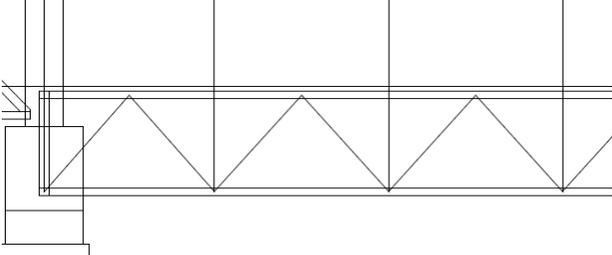
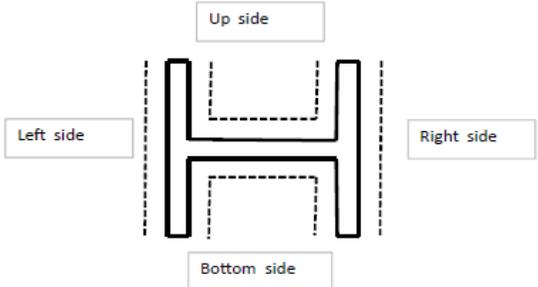
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |
|--|--|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div>                                   |  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>  |  |  |
| 22 V-L or R  |  | 22 T-L or R  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>     |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>  |
| 22 D1-L or R   |  | 22 D2-L or R   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px;" type="text"/>     |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px;" type="text"/> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px;" type="text"/>  |

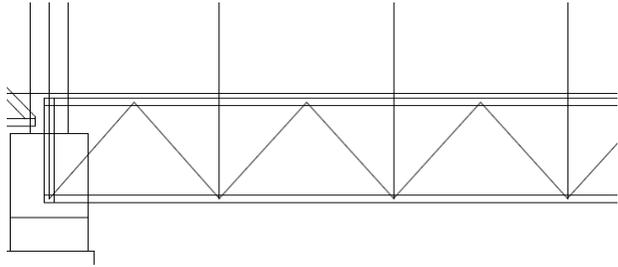
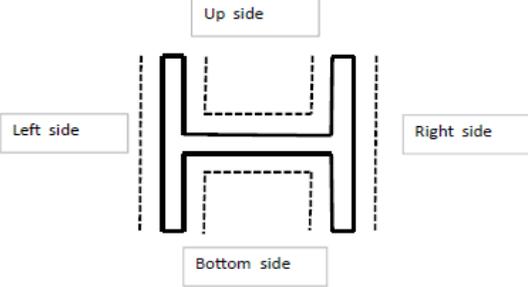
# Sketch of Bridge Condition Inspection Magapit Bridge

|                                      |  |   |
|--------------------------------------|--|---|
| Truss Member of<br>Suspension Bridge |  |  |
| S3(Left or Right side)               |  |   |
| 22 TB-L or R                         |  |   |
| Up side                              | <input type="text"/>   |   |
| Bottom side                          | <input type="text"/>   |   |
| Left side                            | <input type="text"/>   |   |
| Right side                           | <input type="text"/>   |   |

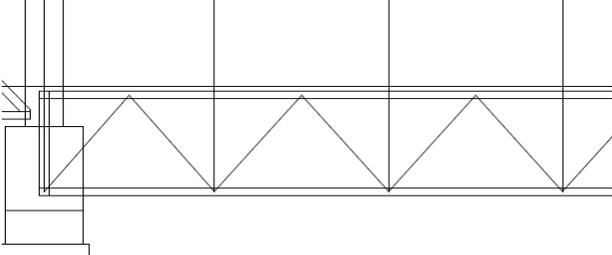
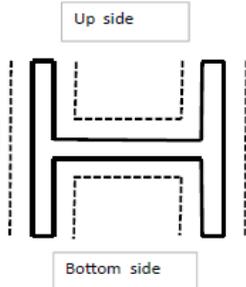
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |   |  |
|--|--|---|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |        | <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> </div>  <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 10px; width: fit-content; margin-left: auto; margin-right: auto;">Bottom side</div> |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            | <p>23 V-L or R</p>   | <p>23 T-L or R</p>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>   |  |
| <p>23 D1-L or R</p>  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>   |  |

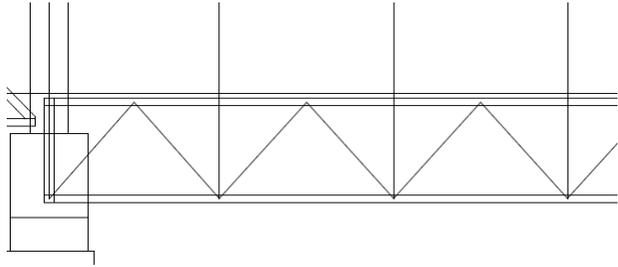
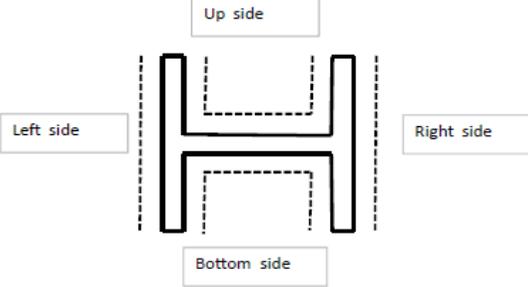
# Sketch of Bridge Condition Inspection Magapit Bridge

|                                      |  |   |
|--------------------------------------|--|---|
| Truss Member of<br>Suspension Bridge |  |  |
| S3(Left or Right side)               |  |   |
| 23 TB-L or R                         |  |   |
| Up side                              | <input type="text"/>   |   |
| Bottom side                          | <input type="text"/>   |   |
| Left side                            | <input type="text"/>   |   |
| Right side                           | <input type="text"/>   |   |

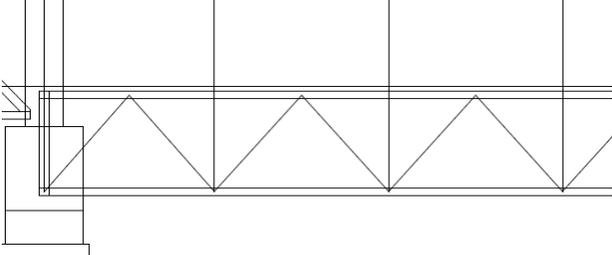
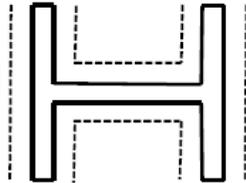
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |
|---|--|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div>  |  | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div>  <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 5px;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>   |  |   |
| 24 V-L or R   |  | 24 T-L or R   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| 24 D1-L or R  |  | 24 D2-L or R  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |

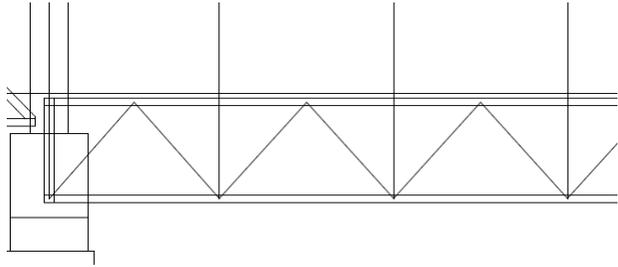
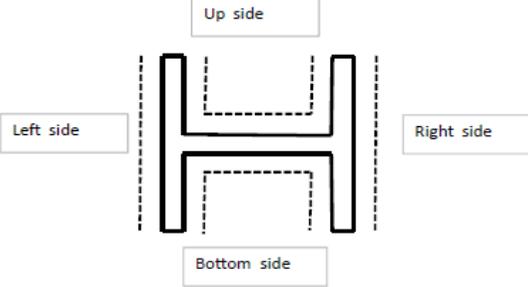
**Sketch of Bridge Condition Inspection  
Magapit Bridge**

|  |  |   |
|--|--|---|
| <b>Truss Member of<br/>Suspension Bridge</b> |  |  |
| S3(Left or Right side)                       |  |   |
| 24 TB-L or R                                 |  |   |
| Up side                                      | <input type="text"/>   |   |
| Bottom side                                  | <input type="text"/>   |   |
| Left side                                    | <input type="text"/>   |   |
| Right side                                   | <input type="text"/>   |   |

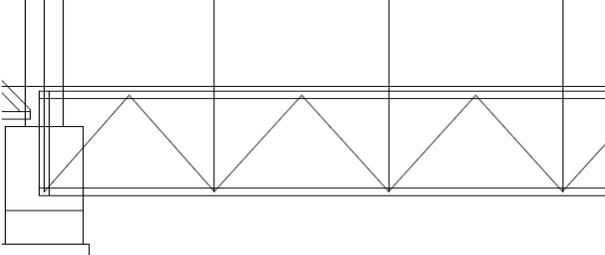
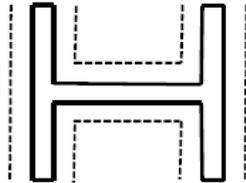
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |
|---|--|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div>  |  | <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> </div>  <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="display: flex; justify-content: center; align-items: center; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</div> </div> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>   |  |   |
| 25 V-L or R   |  | 25 T-L or R   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| 25 D1-L or R  |  | 25 D2-L or R  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |

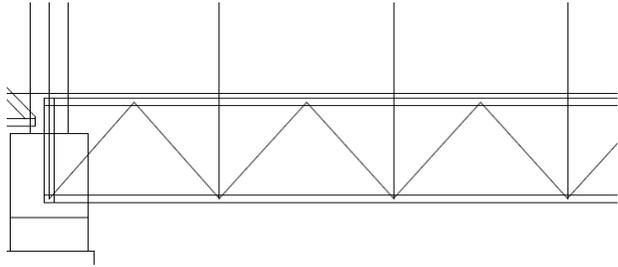
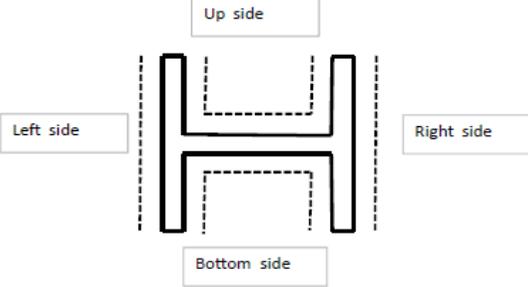
# Sketch of Bridge Condition Inspection Magapit Bridge

|                                      |  |   |
|--------------------------------------|--|---|
| Truss Member of<br>Suspension Bridge |  |  |
| S3(Left or Right side)               |  |   |
| 25 TB-L or R                         |  |   |
| Up side                              | <input type="text"/>   |   |
| Bottom side                          | <input type="text"/>   |   |
| Left side                            | <input type="text"/>   |   |
| Right side                           | <input type="text"/>   |   |

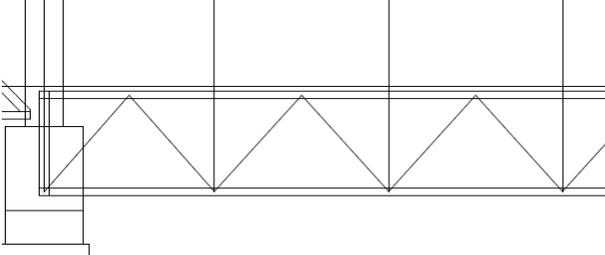
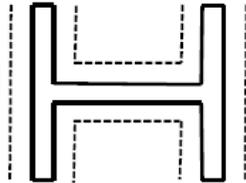
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
|---|--|---|-------------|-------------|-----------|-----------|------------|------------|---|--|---------|-------------|-------------|-----------|-----------|------------|------------|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div>  |    | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div><br><div style="display: flex; justify-content: space-between; width: 100%;"> <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;">Bottom side</div> |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>   | <p style="text-align: center;">26 V-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; padding: 2px;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side   |             | Bottom side |           | Left side |            | Right side |   | <p style="text-align: center;">26 T-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; padding: 2px;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side |             | Bottom side |           | Left side |            | Right side |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| <p style="text-align: center;">26 D1-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; padding: 2px;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side  |   | Bottom side |             | Left side |           | Right side |            | <p style="text-align: center;">26 D2-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; padding: 2px;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side  |         | Bottom side |             | Left side |           | Right side |            |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |

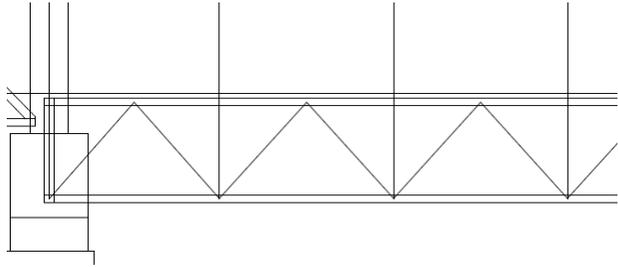
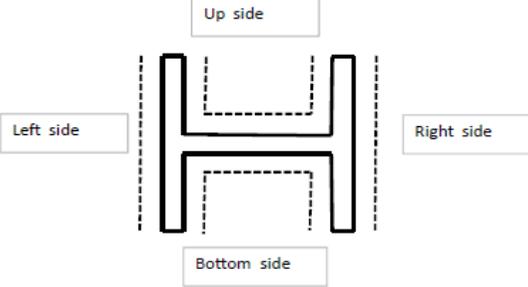
**Sketch of Bridge Condition Inspection  
Magapit Bridge**

|   |  |  |
|---|--|--|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Truss Member of<br/>Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>  <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div> |
| S3(Left or Right side)  |  |  |
| 26 TB-L or R  |  |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                               | <div style="border: 1px solid black; height: 20px;"></div>                         |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                           | <div style="border: 1px solid black; height: 20px;"></div>                         |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                             | <div style="border: 1px solid black; height: 20px;"></div>                         |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                            | <div style="border: 1px solid black; height: 20px;"></div>                         |  |

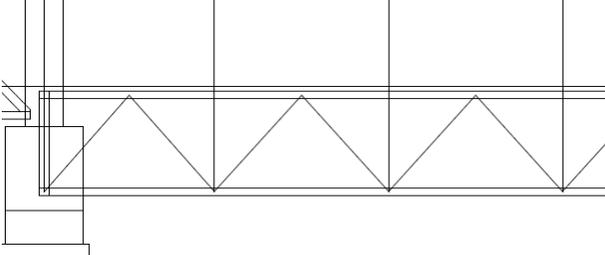
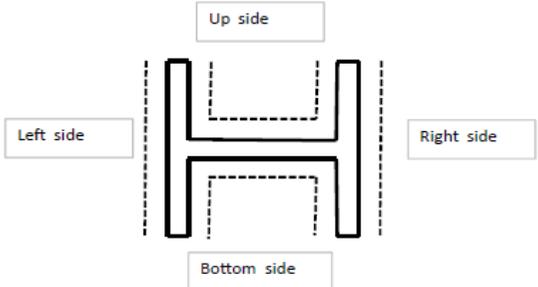
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |   |  |
|--|--|---|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div><br><div style="display: flex; justify-content: space-between; width: 100%;"> <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;">Bottom side</div> |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            | 27 V-L or R  | 27 T-L or R   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>   |  |
| 27 D1-L or R   | 27 D2-L or R   |   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>   |  |

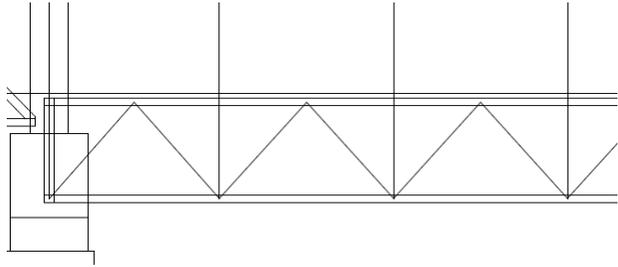
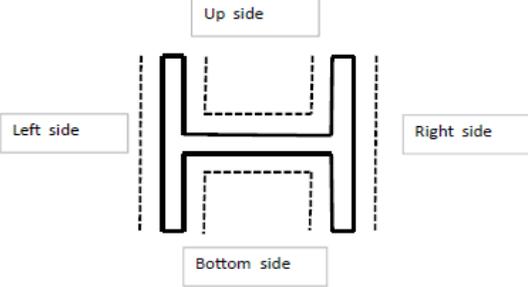
# Sketch of Bridge Condition Inspection Magapit Bridge

|                                      |  |   |
|--------------------------------------|--|---|
| Truss Member of<br>Suspension Bridge |  |  |
| S3(Left or Right side)               |  |   |
| 27 TB-L or R                         |  |   |
| Up side                              | <input type="text"/>   |   |
| Bottom side                          | <input type="text"/>   |   |
| Left side                            | <input type="text"/>   |   |
| Right side                           | <input type="text"/>   |   |

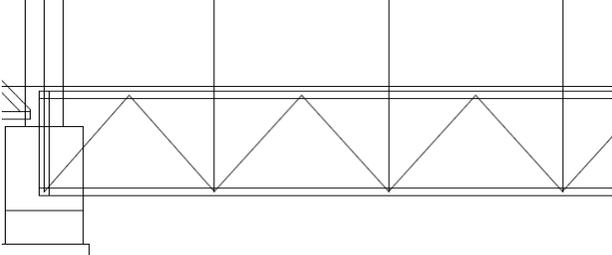
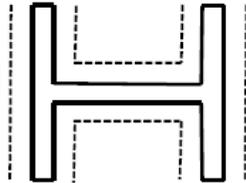
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |   |
|--|--|--|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |          |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> |
| 28 V-L or R  |  | 28 T-L or R  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |   |
| 28 D1-L or R   |  | 28 D2-L or R   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |   |

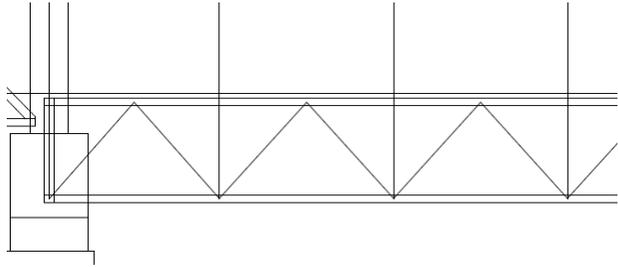
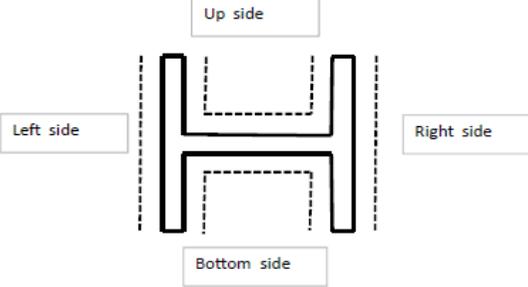
**Sketch of Bridge Condition Inspection  
Magapit Bridge**

|   |  |  |
|---|--|--|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Truss Member of<br/>Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>  |
| S3(Left or Right side)  |  |  |
| 28 TB-L or R  |  |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                               | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                           | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                             | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                            | <input style="width: 100%; height: 20px;" type="text"/>                            |  |

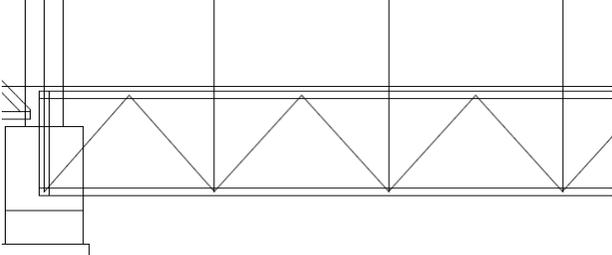
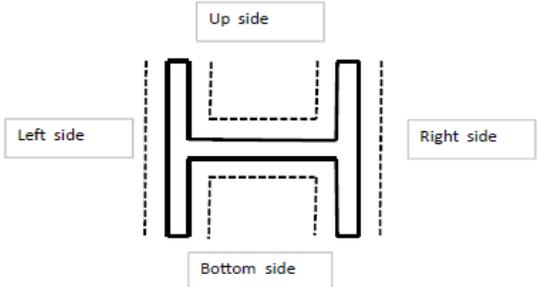
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |   |
|--|--|---|
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Truss Member of Suspension Bridge</div>  |  | <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> </div>  <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 10px; width: fit-content; margin-left: auto; margin-right: auto;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">S3(Left or Right side)</div>   |  |   |
| 29 V-L or R  |  | 29 T-L or R   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| 29 D1-L or R   |  | 29 D2-L or R  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |

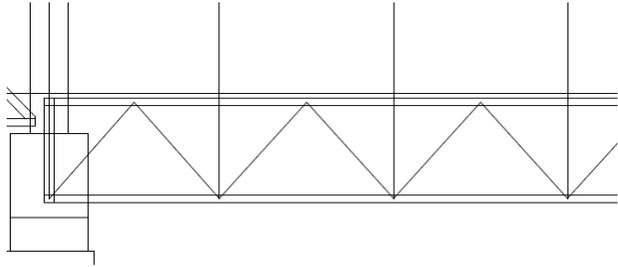
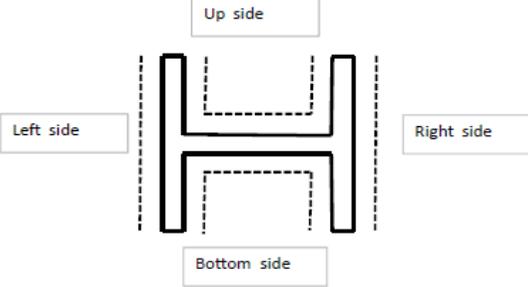
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |  |
|---|--|--|
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto 10px auto;">Up side</div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto 10px auto;">Left side</div>  <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto 10px auto;">Right side</div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">S3(Left or Right side)</div>            |  |  |
| <p style="text-align: center;">29 TB-L or R</p>   |  |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div>                           | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div>                       | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div>                         | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div>                        | <input style="width: 100%; height: 20px;" type="text"/>                            |  |

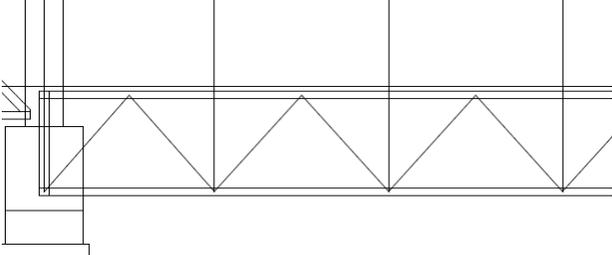
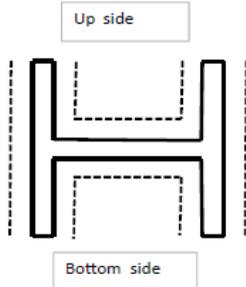
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
|---|--|---|-------------|-------------|-----------|-----------|------------|------------|---|--|---------|-------------|-------------|-----------|-----------|------------|------------|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div>  |    | <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> </div>  <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 10px; width: fit-content; margin-left: auto; margin-right: auto;">Bottom side</div> |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>   | <p style="text-align: center; font-size: small;">30 V-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; padding: 2px;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side   |             | Bottom side |           | Left side |            | Right side |   | <p style="text-align: center; font-size: small;">30 T-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; padding: 2px;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side |             | Bottom side |           | Left side |            | Right side |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| <p style="text-align: center; font-size: small;">30 D1-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; padding: 2px;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side  |   | Bottom side |             | Left side |           | Right side |            | <p style="text-align: center; font-size: small;">30 D2-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border: 1px solid black; padding: 2px;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side  |         | Bottom side |             | Left side |           | Right side |            |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |

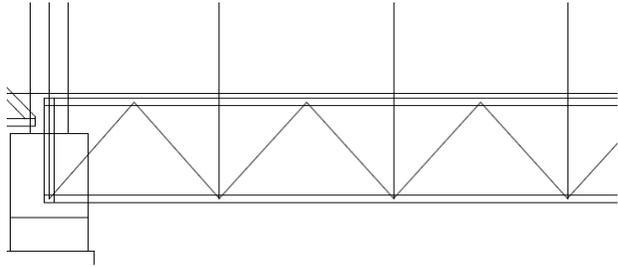
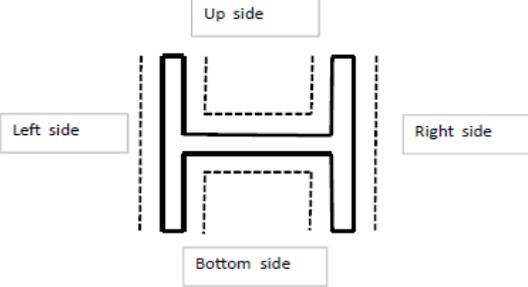
**Sketch of Bridge Condition Inspection  
Magapit Bridge**

|   |  |  |
|---|--|--|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Truss Member of<br/>Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>  <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div> |
| S3(Left or Right side)  |  |  |
| 30 TB-L or R  |  |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                               |  |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                           |  |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                             |  |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                            |  |  |

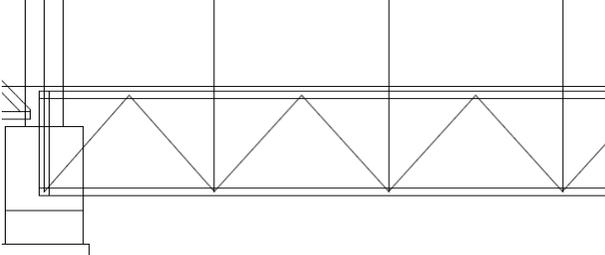
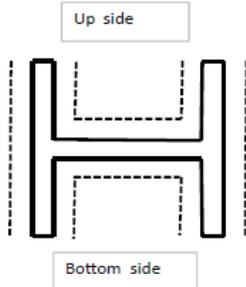
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |   |
|--|--|--|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |          |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> |
| 31 V-L or R  |  | 31 T-L or R  |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |   |
| 31 D1-L or R   |  | 31 D2-L or R   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |   |

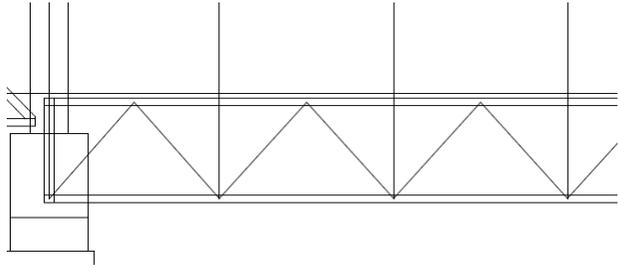
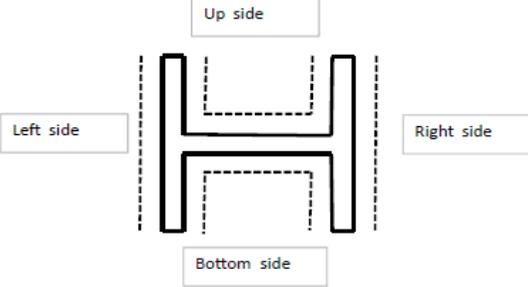
**Sketch of Bridge Condiiton Inspection  
Magapit Bridge**

|                                      |  |   |
|--------------------------------------|--|---|
| Truss Member of<br>Suspension Bridge |  |  |
| S3(Left or Right side)               |  |   |
| 31 TB-L or R                         |  |   |
| Up side                              | <input type="text"/>   |   |
| Bottom side                          | <input type="text"/>   |   |
| Left side                            | <input type="text"/>   |   |
| Right side                           | <input type="text"/>   |   |

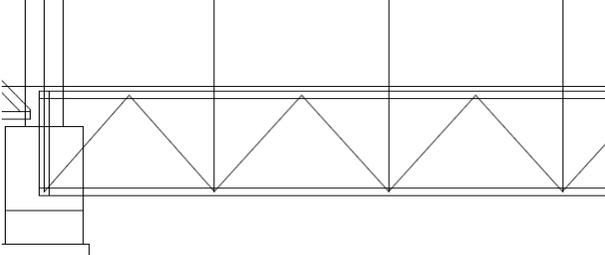
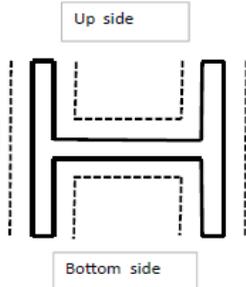
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
|--|---|---|--|-------------|--|-----------|--|------------|--|---|---------|--|-------------|--|-----------|--|------------|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |   | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div>  <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 5px;">Bottom side</div> |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            | <p>32 V-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table>  | Up side   |  | Bottom side |  | Left side |  | Right side |  | <p>32 T-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table>  | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Up side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
|  | <p>32 D1-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side   |  | Bottom side |  | Left side |  | Right side |  | <p>32 D2-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Up side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side  |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side   |   |   |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |

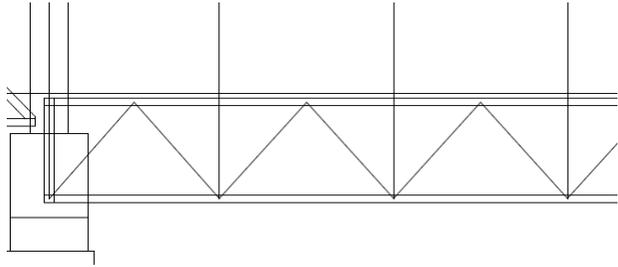
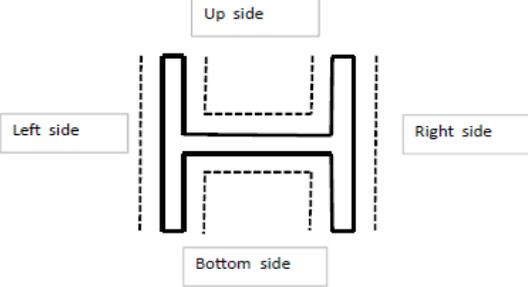
# Sketch of Bridge Condition Inspection Magapit Bridge

|                                      |  |   |
|--------------------------------------|--|---|
| Truss Member of<br>Suspension Bridge |  |  |
| S3(Left or Right side)               |  |   |
| 32 TB-L or R                         |  |   |
| Up side                              | <input type="text"/>   |   |
| Bottom side                          | <input type="text"/>   |   |
| Left side                            | <input type="text"/>   |   |
| Right side                           | <input type="text"/>   |   |

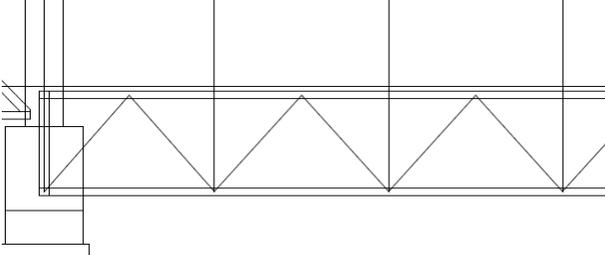
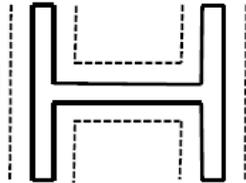
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
|---|--|---|-------------|-------------|-----------|-----------|------------|------------|---|--|---------|-------------|-------------|-----------|-----------|------------|------------|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div>  |    | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div>  <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 5px;">Bottom side</div> |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>   | <p style="text-align: center; font-size: small;">33 V-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side   |             | Bottom side |           | Left side |            | Right side |   | <p style="text-align: center; font-size: small;">33 T-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side |             | Bottom side |           | Left side |            | Right side |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| <p style="text-align: center; font-size: small;">33 D1-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side  |   | Bottom side |             | Left side |           | Right side |            | <p style="text-align: center; font-size: small;">33 D2-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Up side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Left side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; font-size: small;">Right side</td> <td style="border: 1px solid black; height: 25px;"></td> </tr> </table> | Up side  |         | Bottom side |             | Left side |           | Right side |            |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Up side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Bottom side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Left side   |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |
| Right side  |  |   |             |             |           |           |            |            |   |  |         |             |             |           |           |            |            |  |

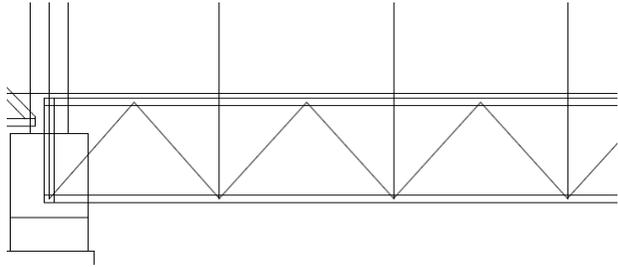
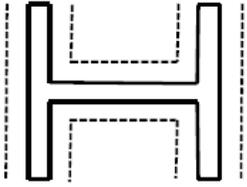
# Sketch of Bridge Condition Inspection Magapit Bridge

|                                      |  |   |
|--------------------------------------|--|---|
| Truss Member of<br>Suspension Bridge |  |  |
| S3(Left or Right side)               |  |   |
| 33 TB-L or R                         |  |   |
| Up side                              | <input type="text"/>   |   |
| Bottom side                          | <input type="text"/>   |   |
| Left side                            | <input type="text"/>   |   |
| Right side                           | <input type="text"/>   |   |

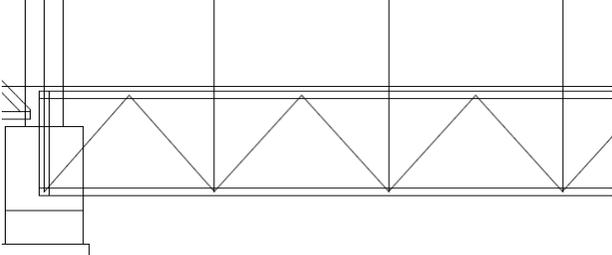
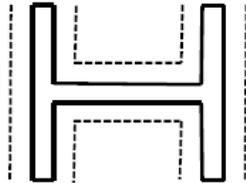
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |   |  |
|--|---|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            | <p>34 V-L or R</p> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> | <p>34 T-L or R</p> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div>  |
| <p>34 D1-L or R</p>  | <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div>                    | <p>34 D2-L or R</p> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 25px;"></div> </div> |

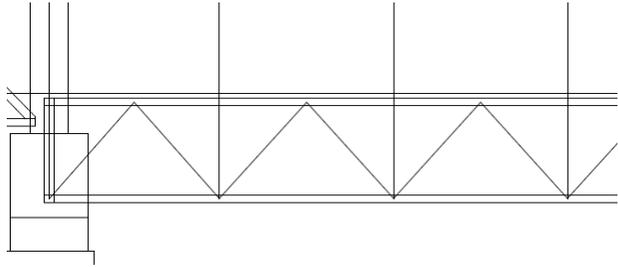
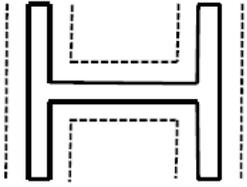
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |
|--|--|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            |  |  |
| 34 TB-L or R   |  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        | <input style="width: 100%; height: 20px;" type="text"/>                            |  |

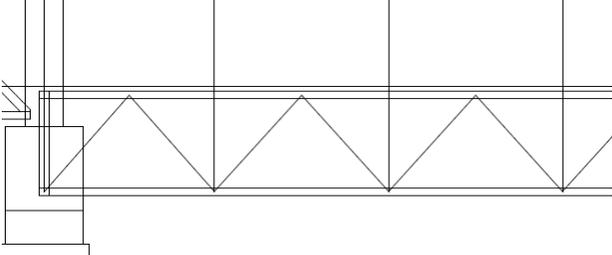
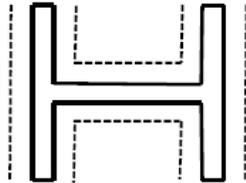
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
|--|---|--|--|-------------|--|-----------|--|------------|--|---|---------|--|-------------|--|-----------|--|------------|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            | <p style="text-align: center;">35 V-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table>  | Up side  |  | Bottom side |  | Left side |  | Right side |  | <p style="text-align: center;">35 T-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table>  | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side  |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side  |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side  |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side   |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Up side  |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side  |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side  |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side   |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
|  | <p style="text-align: center;">35 D1-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side  |  | Bottom side |  | Left side |  | Right side |  | <p style="text-align: center;">35 D2-L or R</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 15%;">Up side</td> <td style="border: 1px solid black; width: 85%;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Bottom side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Left side</td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Right side</td> <td style="border: 1px solid black;"></td> </tr> </table> | Up side |  | Bottom side |  | Left side |  | Right side |  |
| Up side  |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side  |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side  |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side   |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Up side  |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Bottom side  |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Left side  |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |
| Right side   |   |  |  |             |  |           |  |            |  |   |         |  |             |  |           |  |            |  |

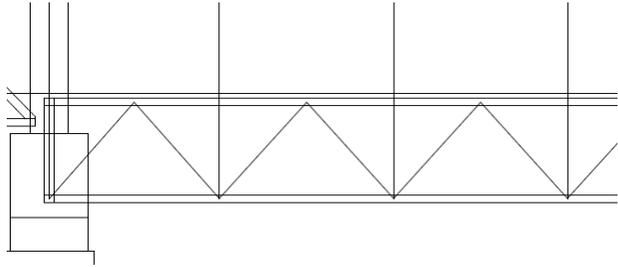
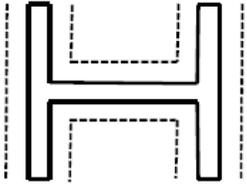
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |  |
|---|--|--|
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Truss Member of Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Up side</div> <div style="display: flex; justify-content: space-between; width: 100%; margin: 5px 0;"> <div style="border: 1px solid black; padding: 2px; width: 20%;">Left side</div> <div style="border: 1px solid black; padding: 2px; width: 60%; text-align: center;">  </div> <div style="border: 1px solid black; padding: 2px; width: 20%;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">S3(Left or Right side)</div>            |  |  |
| <p style="text-align: center;">35 TB-L or R</p>   |  |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div>                           | <input style="width: 95%; height: 20px;" type="text"/>                             |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div>                       | <input style="width: 95%; height: 20px;" type="text"/>                             |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div>                         | <input style="width: 95%; height: 20px;" type="text"/>                             |  |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div>                        | <input style="width: 95%; height: 20px;" type="text"/>                             |  |

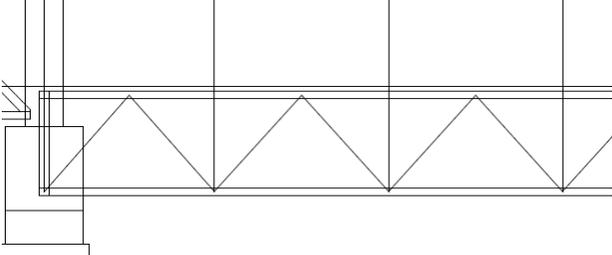
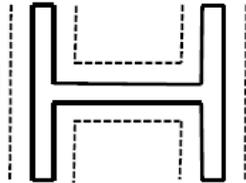
## Sketch of Bridge Conditon Inspection Magapit Bridge

|  |  |  |  |
|--|--|--|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div> |  | <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> </div>  <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">Bottom side</div> </div> |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>            | <p>36 V-L or R</p>   | <p>36 T-L or R</p>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |  |
| <p>36 D1-L or R</p>  |  | <p>36 D2-L or R</p>  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                           |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                       |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                         |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                        |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>  |  |

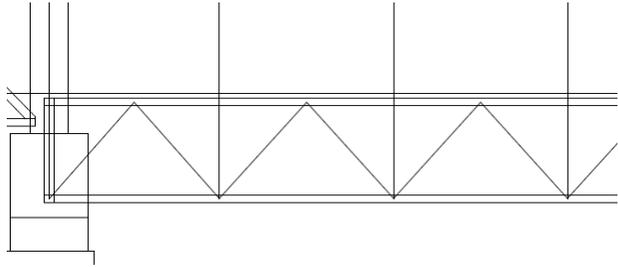
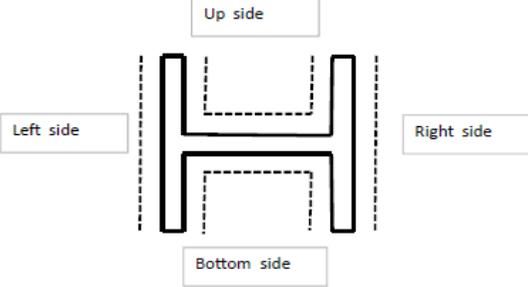
**Sketch of Bridge Conditon Inspection**  
**Magapit Bridge**

|   |  |   |
|---|--|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Truss Member of<br/>Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div> <div style="display: flex; justify-content: space-between; align-items: center;"><div style="border: 1px solid black; padding: 2px;">Left side</div><div style="border: 1px solid black; padding: 2px;"></div><div style="border: 1px solid black; padding: 2px;">Right side</div></div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |
| S3(Left or Right side)  |  |   |
| 36 TB-L or R  |  |   |
| <div style="border: 1px solid black; padding: 2px;">Up side</div>   | <div style="border: 1px solid black; height: 20px;"></div>                         |   |
| <div style="border: 1px solid black; padding: 2px;">Bottom side</div>   | <div style="border: 1px solid black; height: 20px;"></div>                         |   |
| <div style="border: 1px solid black; padding: 2px;">Left side</div>   | <div style="border: 1px solid black; height: 20px;"></div>                         |   |
| <div style="border: 1px solid black; padding: 2px;">Right side</div>  | <div style="border: 1px solid black; height: 20px;"></div>                         |   |

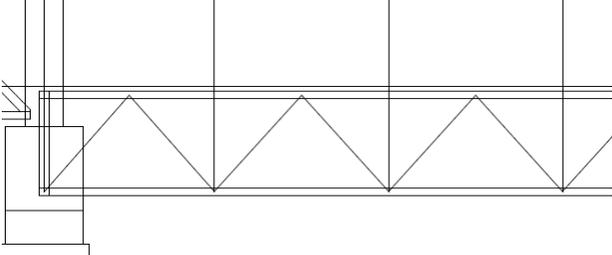
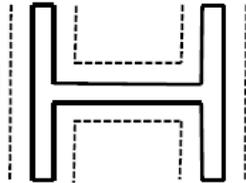
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |   |
|--|--|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div>   |  | <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> </div>  <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Left side</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 10px; width: fit-content; margin-left: auto; margin-right: auto;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>  |  |   |
| 37 V-L or R  |  | 37 T-L or R   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Up side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Up side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Bottom side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Bottom side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Left side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Left side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Right side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Right side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/>   |
| 37 D1-L or R   |  | 37 D2-L or R  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Up side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Up side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Bottom side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Bottom side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Left side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Left side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/>  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Right side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 100px;">Right side</div> <input style="width: 250px; height: 25px; margin-left: 10px;" type="text"/>   |

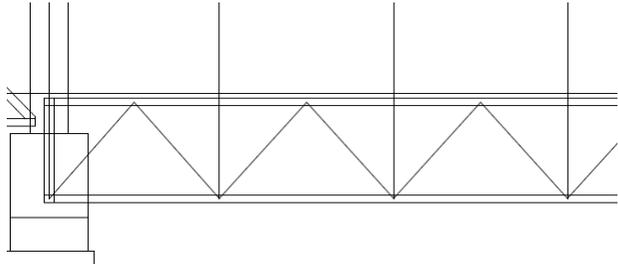
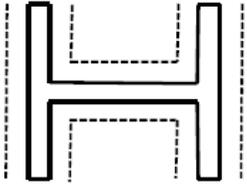
**Sketch of Bridge Condition Inspection**  
**Magapit Bridge**

|  |         |  |             |  |           |  |            |  |  |   |
|--|---------|--|-------------|--|-----------|--|------------|--|--|---|
| <div data-bbox="241 300 506 384" style="border: 1px solid black; padding: 5px; text-align: center;">Truss Member of<br/>Suspension Bridge</div> <div data-bbox="203 437 524 509" style="border: 1px solid black; padding: 5px; text-align: center;">S3(Left or Right side)</div> <div data-bbox="293 564 443 596" style="text-align: center;">37 TB-L or R</div> <div data-bbox="248 600 1066 919"><table style="width: 100%;"><tr><td style="border: 1px solid black; padding: 5px;">Up side</td><td style="border: 1px solid black; height: 30px;"></td></tr><tr><td style="border: 1px solid black; padding: 5px;">Bottom side</td><td style="border: 1px solid black; height: 30px;"></td></tr><tr><td style="border: 1px solid black; padding: 5px;">Left side</td><td style="border: 1px solid black; height: 30px;"></td></tr><tr><td style="border: 1px solid black; padding: 5px;">Right side</td><td style="border: 1px solid black; height: 30px;"></td></tr></table></div> | Up side |  | Bottom side |  | Left side |  | Right side |  |  |  |
| Up side  |         |  |             |  |           |  |            |  |  |   |
| Bottom side  |         |  |             |  |           |  |            |  |  |   |
| Left side  |         |  |             |  |           |  |            |  |  |   |
| Right side   |         |  |             |  |           |  |            |  |  |   |

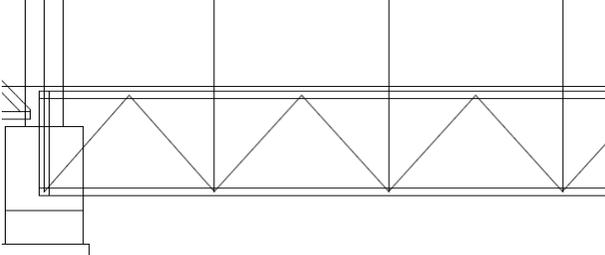
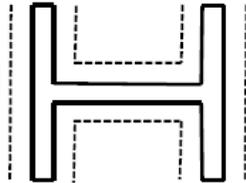
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |
|---|--|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Truss Member of Suspension Bridge</div>  |  | <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">Up side</div> </div>  <div style="display: flex; justify-content: space-between; align-items: center; font-size: small;"> <div style="border: 1px solid black; padding: 2px;">Left side</div> <div style="border: 1px solid black; padding: 2px;">Right side</div> </div> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 5px;">Bottom side</div> |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">S3(Left or Right side)</div>   |  |   |
| 38 V-L or R   |  | 38 T-L or R   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |
| 38 D1-L or R  |  | 38 D2-L or R  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>     |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>   |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div> <input style="width: 100%; height: 20px; margin-top: 5px;" type="text"/>  |

**Sketch of Bridge Condition Inspection  
Magapit Bridge**

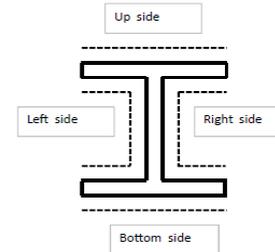
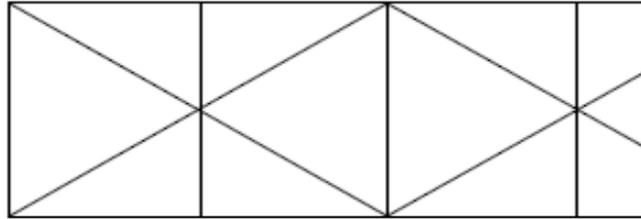
|   |  |   |
|---|--|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Truss Member of<br/>Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>  <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |
| S3(Left or Right side)  |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>   |
| 38 TB-L or R  |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                               | <input style="width: 100%; height: 20px;" type="text"/>                            |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                           | <input style="width: 100%; height: 20px;" type="text"/>                            |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                             | <input style="width: 100%; height: 20px;" type="text"/>                            |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                            | <input style="width: 100%; height: 20px;" type="text"/>                            |   |

**Sketch of Bridge Condition Inspection  
Magapit Bridge**

|   |  |  |
|---|--|--|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Truss Member of<br/>Suspension Bridge</div> |  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>  <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div><br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div> |
| S3(Left or Right side)  |  |  |
| 39 V-L or R   |  |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Up side</div>                            | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Bottom side</div>                        | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Left side</div>                          | <input style="width: 100%; height: 20px;" type="text"/>                            |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Right side</div>                         | <input style="width: 100%; height: 20px;" type="text"/>                            |  |

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

1 CBT

|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

1 CBB

|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

1 FT-1

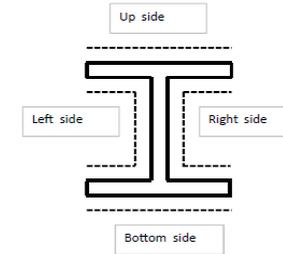
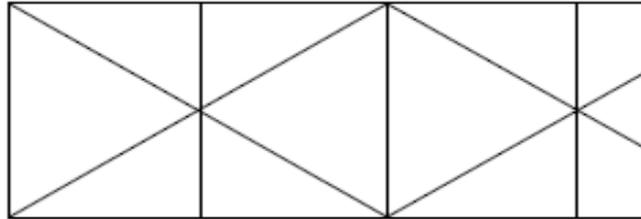
|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

1 FT-2

|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss member of  
Suspention Bridge



S3

1 FT-3

Up side

Bottom side

Left side

Right side

1 FT-4

Up side

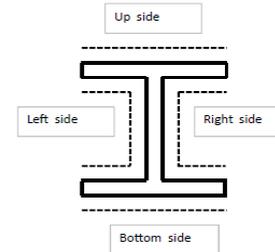
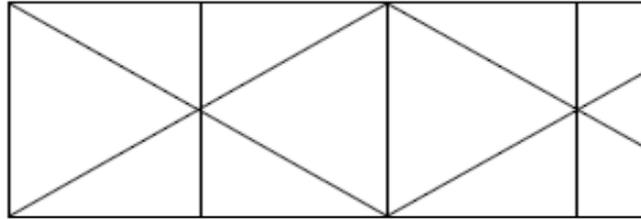
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

2 CBT

|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

2 CBB

|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

2 FT-1

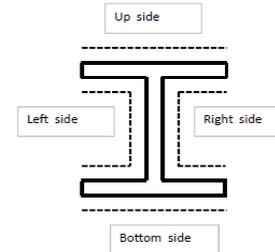
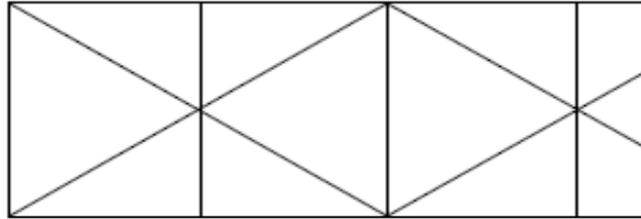
|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

2 FT-2

|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

3 CBT

Up side

Bottom side

Left side

Right side

3 CBB

Up side

Bottom side

Left side

Right side

3 FT-1

Up side

Bottom side

Left side

Right side

3 FT-2

Up side

Bottom side

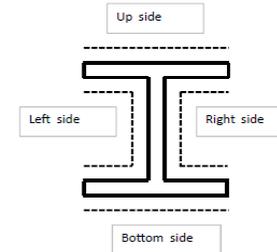
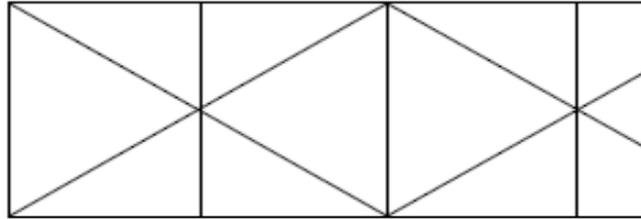
Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge

S3



4 CBT

Up side

Bottom side

Left side

Right side

4 CBB

Up side

Bottom side

Left side

Right side

4 FT-1

Up side

Bottom side

Left side

Right side

4 FT-2

Up side

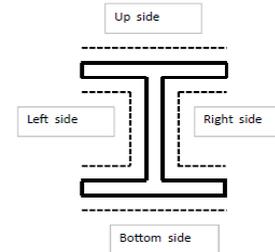
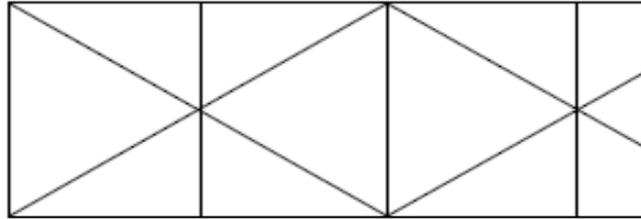
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

5 CBT

Up side

Bottom side

Left side

Right side

5 CBB

Up side

Bottom side

Left side

Right side

5 FT-1

Up side

Bottom side

Left side

Right side

5 FT-2

Up side

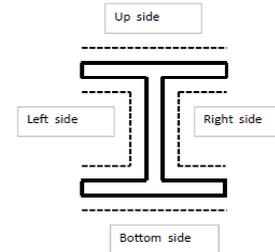
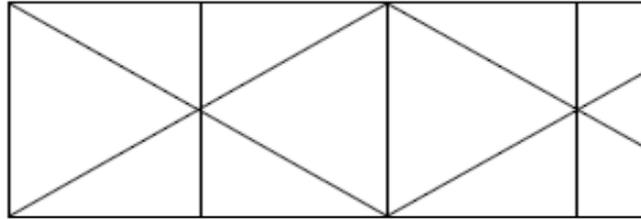
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

6 CBT

Up side

Bottom side

Left side

Right side

6 CBB

Up side

Bottom side

Left side

Right side

6 FT-1

Up side

Bottom side

Left side

Right side

6 FT-2

Up side

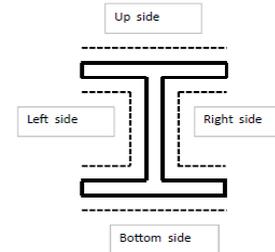
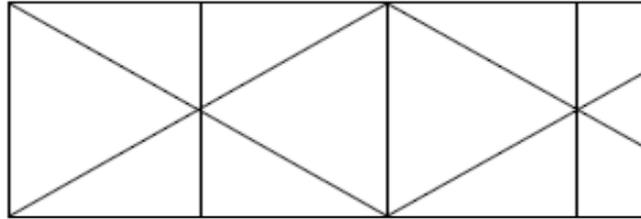
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

7 CBT

Up side

Bottom side

Left side

Right side

7 CBB

Up side

Bottom side

Left side

Right side

7 FT-1

Up side

Bottom side

Left side

Right side

7 FT-2

Up side

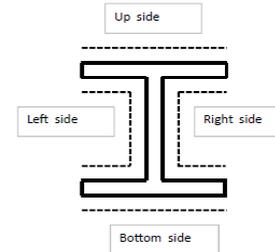
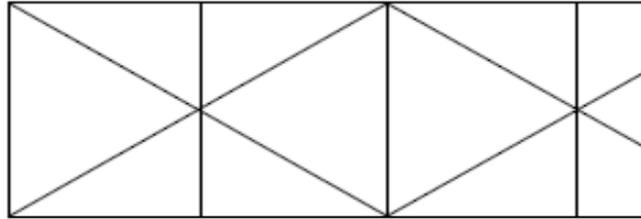
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

8 CBT

|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

8 CBB

|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

8 FT-1

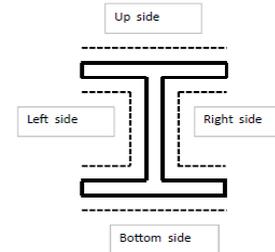
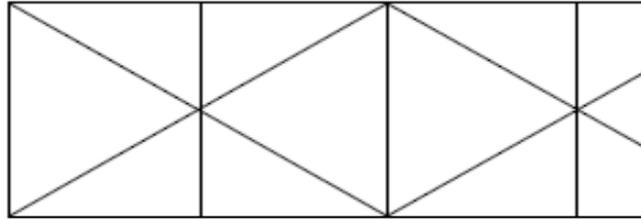
|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

8 FT-2

|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

9 CBT

Up side

Bottom side

Left side

Right side

9 CBB

Up side

Bottom side

Left side

Right side

9 FT-1

Up side

Bottom side

Left side

Right side

9 FT-2

Up side

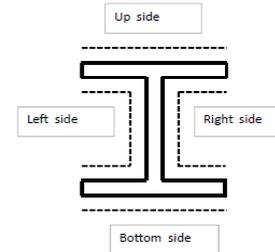
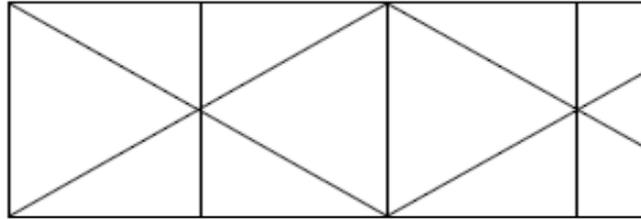
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

10 CBT

Up side

Bottom side

Left side

Right side

10 CBB

Up side

Bottom side

Left side

Right side

10 FT-1

Up side

Bottom side

Left side

Right side

10 FT-2

Up side

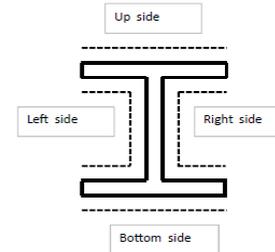
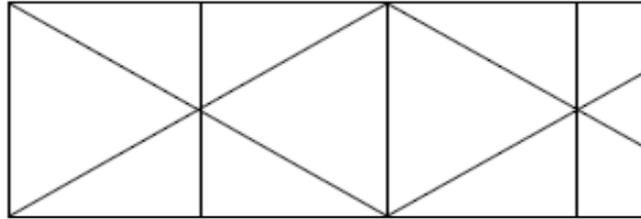
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

11 CBT

Up side

Bottom side

Left side

Right side

11 CBB

Up side

Bottom side

Left side

Right side

11 FT-1

Up side

Bottom side

Left side

Right side

11 FT-2

Up side

Bottom side

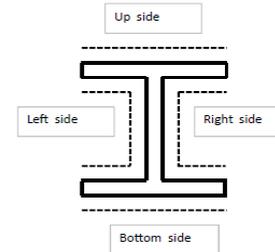
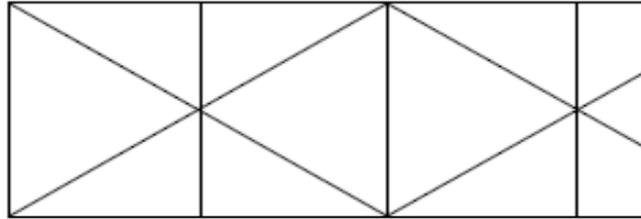
Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge

S3



12 CBT

Up side

Bottom side

Left side

Right side

12 CBB

Up side

Bottom side

Left side

Right side

12 FT-1

Up side

Bottom side

Left side

Right side

12 FT-2

Up side

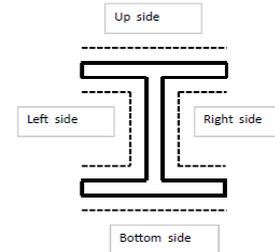
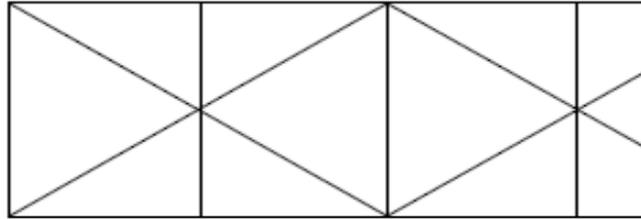
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss member of  
Suspension Bridge



S3

13 CBT

Up side

Bottom side

Left side

Right side

13 CBB

Up side

Bottom side

Left side

Right side

13 FT-1

Up side

Bottom side

Left side

Right side

13 FT-2

Up side

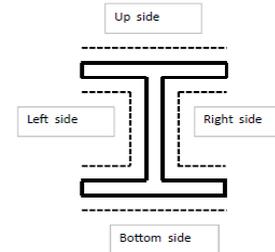
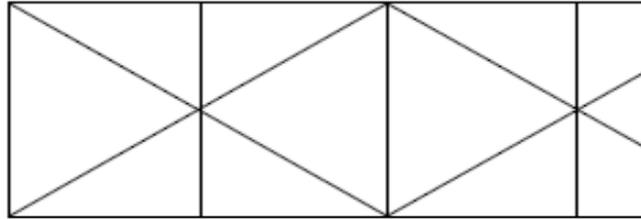
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss member of  
Suspension Bridge



S3

14 CBT

Up side

Bottom side

Left side

Right side

14 CBB

Up side

Bottom side

Left side

Right side

14 FT-1

Up side

Bottom side

Left side

Right side

14 FT-2

Up side

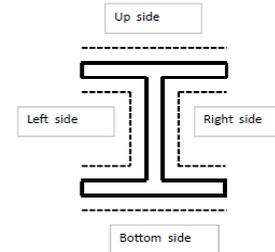
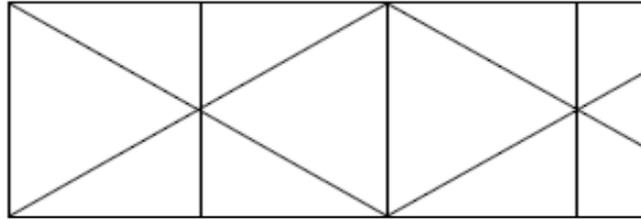
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss member of  
Suspension Bridge



S3

15 CBT

Up side

Bottom side

Left side

Right side

15 CBB

Up side

Bottom side

Left side

Right side

15 FT-1

Up side

Bottom side

Left side

Right side

15 FT-2

Up side

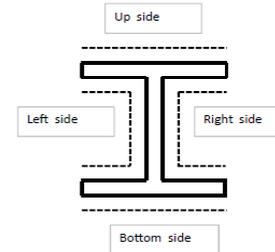
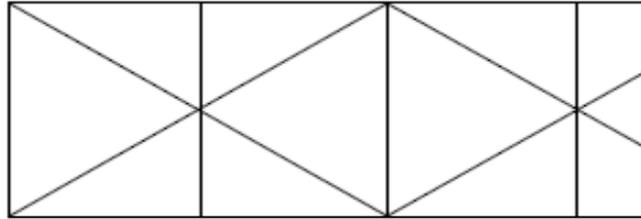
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss member of  
Suspension Bridge



S3

16 CBT

Up side

Bottom side

Left side

Right side

16 CBB

Up side

Bottom side

Left side

Right side

16 FT-1

Up side

Bottom side

Left side

Right side

16 FT-2

Up side

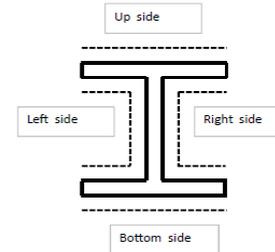
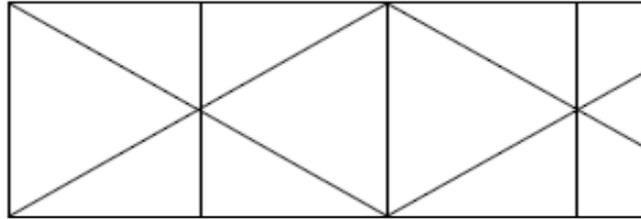
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss member of  
Suspension Bridge



S3

17 CBT

Up side

Bottom side

Left side

Right side

17 CBB

Up side

Bottom side

Left side

Right side

17 FT-1

Up side

Bottom side

Left side

Right side

17 FT-2

Up side

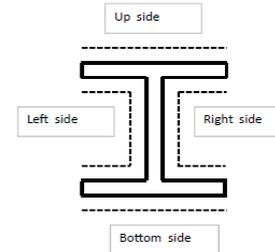
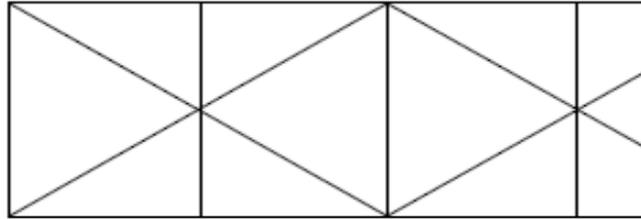
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss member of  
Suspension Bridge



S3

18 CBT

Up side

Bottom side

Left side

Right side

18 CBB

Up side

Bottom side

Left side

Right side

18 FT-1

Up side

Bottom side

Left side

Right side

18 FT-2

Up side

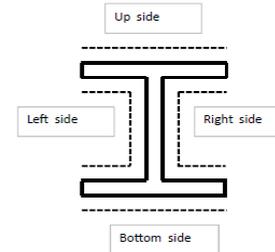
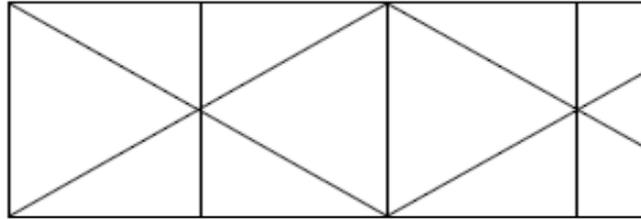
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss member of  
Suspension Bridge



S3

19 CBT

Up side

Bottom side

Left side

Right side

19 CBB

Up side

Bottom side

Left side

Right side

19 FT-1

Up side

Bottom side

Left side

Right side

19 FT-2

Up side

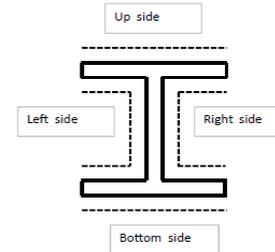
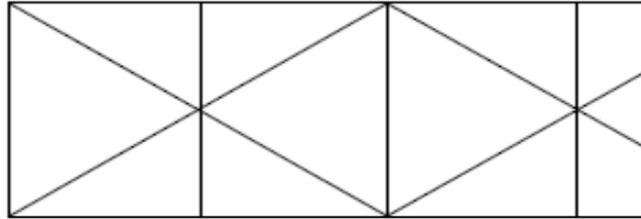
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

20 CBT

Up side

Bottom side

Left side

Right side

20 CBB

Up side

Bottom side

Left side

Right side

20 FT-1

Up side

Bottom side

Left side

Right side

20 FT-2

Up side

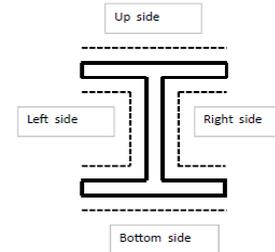
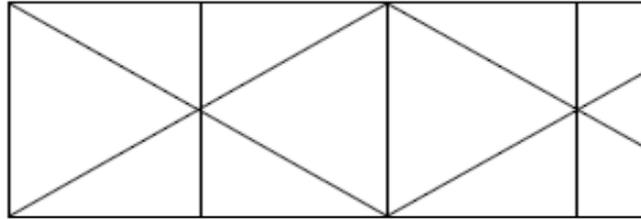
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

21 CBT

Up side

Bottom side

Left side

Right side

21 CBB

Up side

Bottom side

Left side

Right side

21 FT-1

Up side

Bottom side

Left side

Right side

21 FT-2

Up side

Bottom side

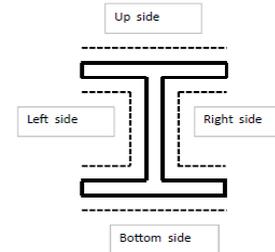
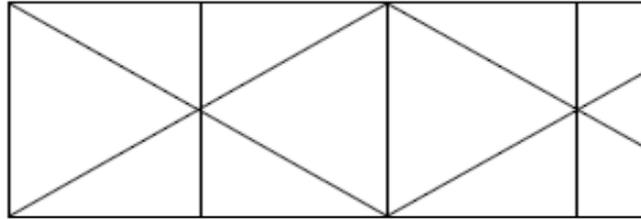
Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge

S3



22 CBT

Up side

Bottom side

Left side

Right side

22 CBB

Up side

Bottom side

Left side

Right side

22 FT-1

Up side

Bottom side

Left side

Right side

22 FT-2

Up side

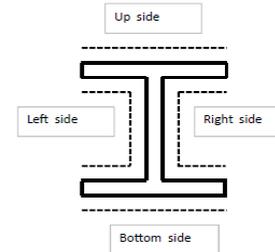
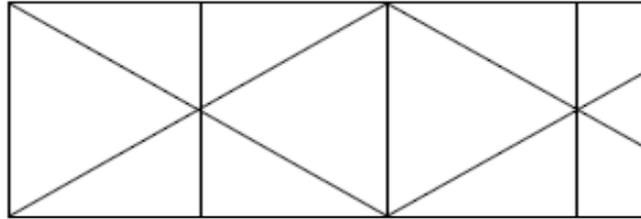
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

23 CBT

Up side

Bottom side

Left side

Right side

23 CBB

Up side

Bottom side

Left side

Right side

23 FT-1

Up side

Bottom side

Left side

Right side

23 FT-2

Up side

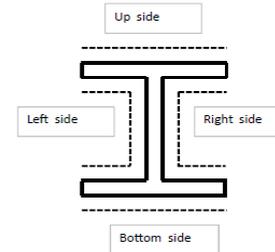
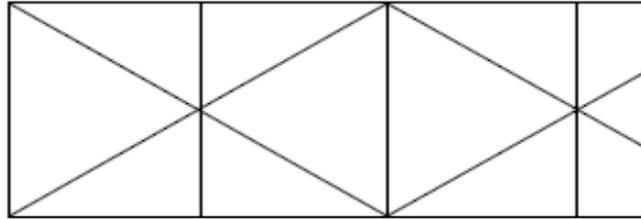
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

24 CBT

Up side

Bottom side

Left side

Right side

24 CBB

Up side

Bottom side

Left side

Right side

24 FT-1

Up side

Bottom side

Left side

Right side

24 FT-2

Up side

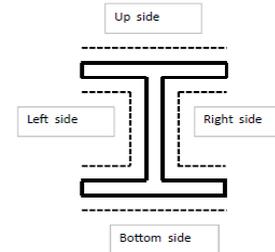
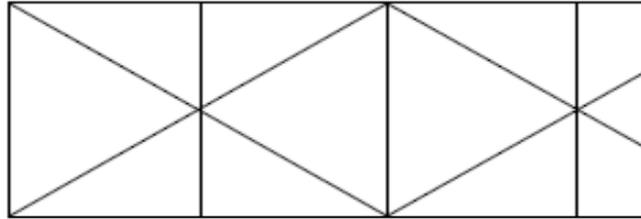
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

25 CBT

Up side

Bottom side

Left side

Right side

25 CBB

Up side

Bottom side

Left side

Right side

25 FT-1

Up side

Bottom side

Left side

Right side

25 FT-2

Up side

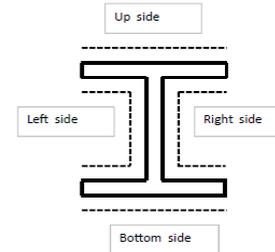
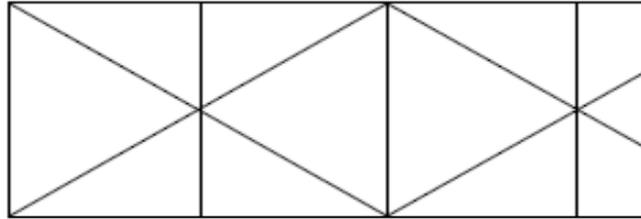
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

26 CBT

|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

26 CBB

|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

26 FT-1

|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

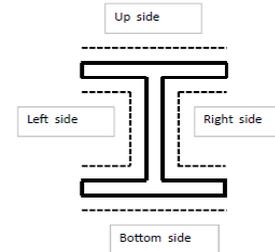
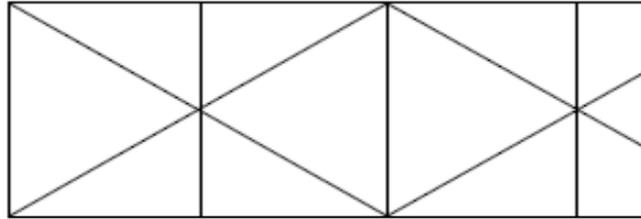
26 FT-2

|             |  |
|-------------|--|
| Up side     |  |
| Bottom side |  |
| Left side   |  |
| Right side  |  |

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge

S3



27 CBT

Up side

Bottom side

Left side

Right side

27 CBB

Up side

Bottom side

Left side

Right side

27 FT-1

Up side

Bottom side

Left side

Right side

27 FT-2

Up side

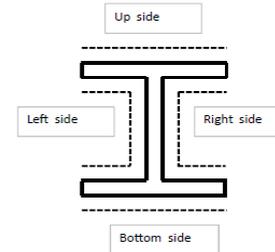
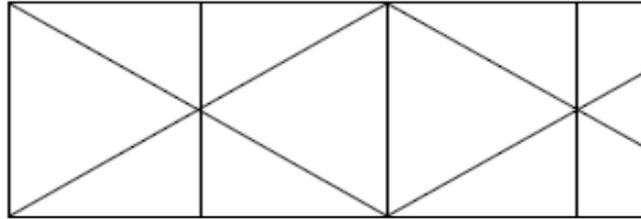
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

28 CBT

Up side

Bottom side

Left side

Right side

28 CBB

Up side

Bottom side

Left side

Right side

28 FT-1

Up side

Bottom side

Left side

Right side

28 FT-2

Up side

Bottom side

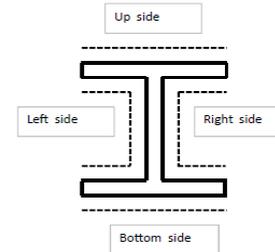
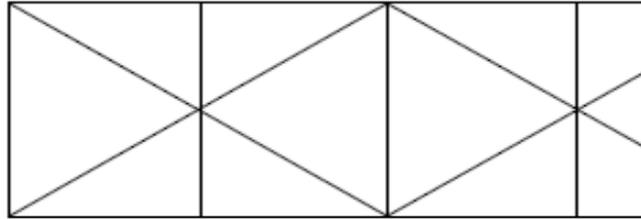
Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge

S3



29 CBT

Up side

Bottom side

Left side

Right side

29 CBB

Up side

Bottom side

Left side

Right side

29 FT-1

Up side

Bottom side

Left side

Right side

29 FT-2

Up side

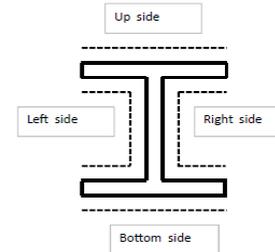
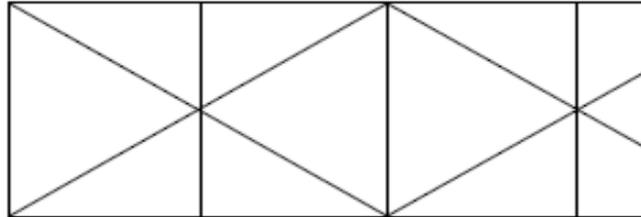
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

30 CBT

Up side

Bottom side

Left side

Right side

30 CBB

Up side

Bottom side

Left side

Right side

30 FT-1

Up side

Bottom side

Left side

Right side

30 FT-2

Up side

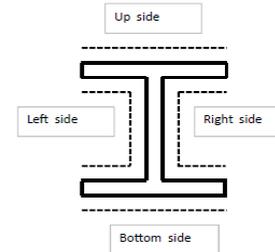
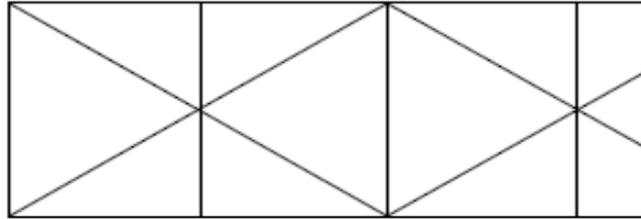
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

31 CBT

Up side

Bottom side

Left side

Right side

31 CBB

Up side

Bottom side

Left side

Right side

31 FT-1

Up side

Bottom side

Left side

Right side

31 FT-2

Up side

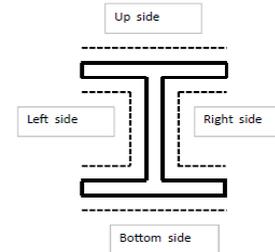
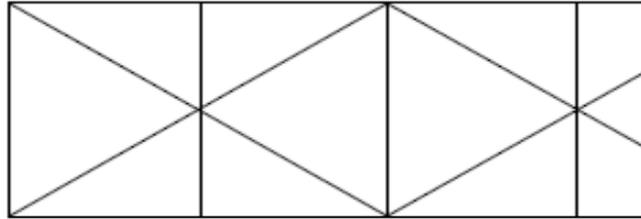
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

32 CBT

Up side

Bottom side

Left side

Right side

32 CBB

Up side

Bottom side

Left side

Right side

32 FT-1

Up side

Bottom side

Left side

Right side

32 FT-2

Up side

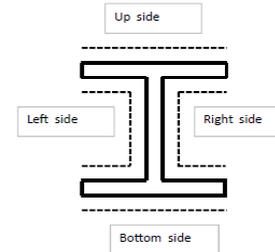
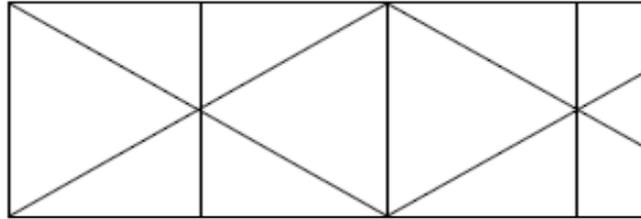
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

33 CBT

Up side

Bottom side

Left side

Right side

33 CBB

Up side

Bottom side

Left side

Right side

33 FT-1

Up side

Bottom side

Left side

Right side

33 FT-2

Up side

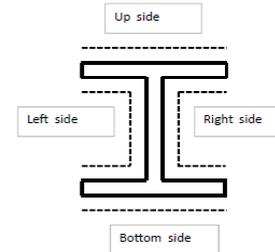
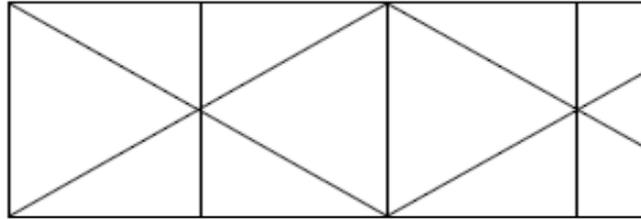
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

34 CBT

Up side

Bottom side

Left side

Right side

34 CBB

Up side

Bottom side

Left side

Right side

34 FT-1

Up side

Bottom side

Left side

Right side

34 FT-2

Up side

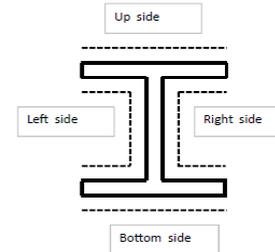
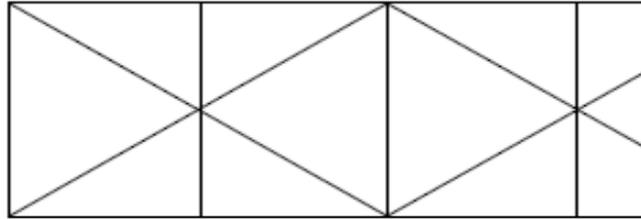
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

35 CBT

Up side

Bottom side

Left side

Right side

35 CBB

Up side

Bottom side

Left side

Right side

35 FT-1

Up side

Bottom side

Left side

Right side

35 FT-2

Up side

Bottom side

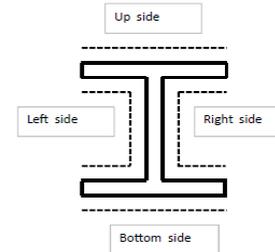
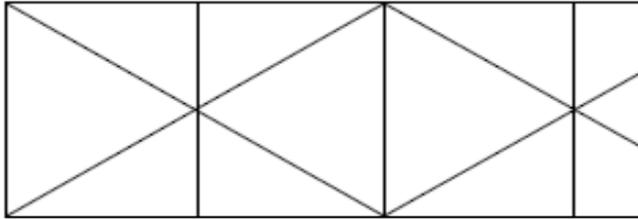
Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge

S3



36 CBT

Up side

Bottom side

Left side

Right side

36 CBB

Up side

Bottom side

Left side

Right side

36 FT-1

Up side

Bottom side

Left side

Right side

36 FT-2

Up side

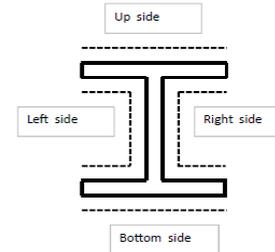
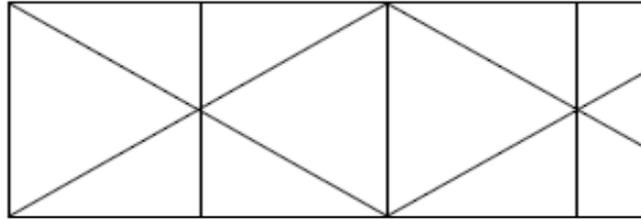
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

37 CBT

Up side

Bottom side

Left side

Right side

37 CBB

Up side

Bottom side

Left side

Right side

37 FT-1

Up side

Bottom side

Left side

Right side

37 FT-2

Up side

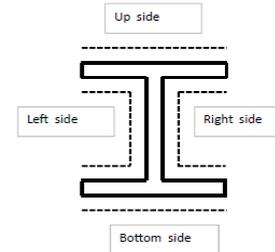
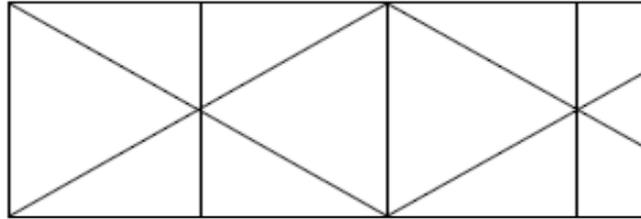
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

38 CBT

Up side

Bottom side

Left side

Right side

38 CBB

Up side

Bottom side

Left side

Right side

38 FT-1

Up side

Bottom side

Left side

Right side

38 FT-2

Up side

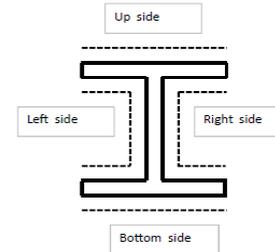
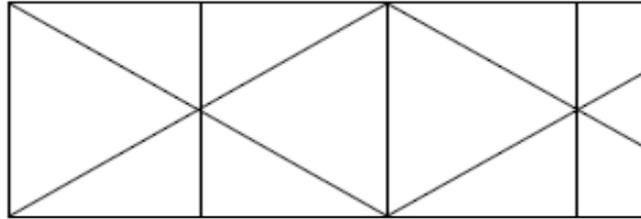
Bottom side

Left side

Right side

## Sketch of Bridge Condition Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

39 CBT

Up side

Bottom side

Left side

Right side

39 CBB

Up side

Bottom side

Left side

Right side

39 FT-1

Up side

Bottom side

Left side

Right side

39 FT-2

Up side

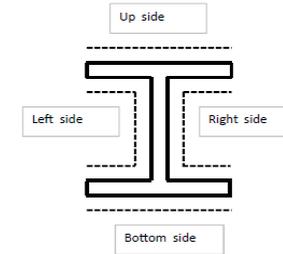
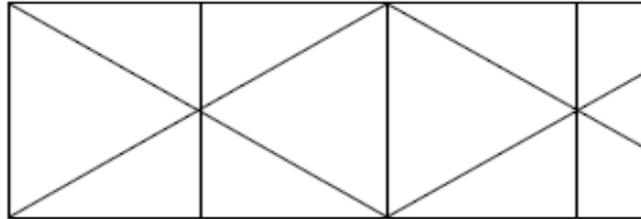
Bottom side

Left side

Right side

## Sketch of Bridge Conditon Inspection Magapit Bridge

Truss Member of  
Suspension Bridge



S3

39 FT-3

Up side

Bottom side

Left side

Right side

39 FT-4

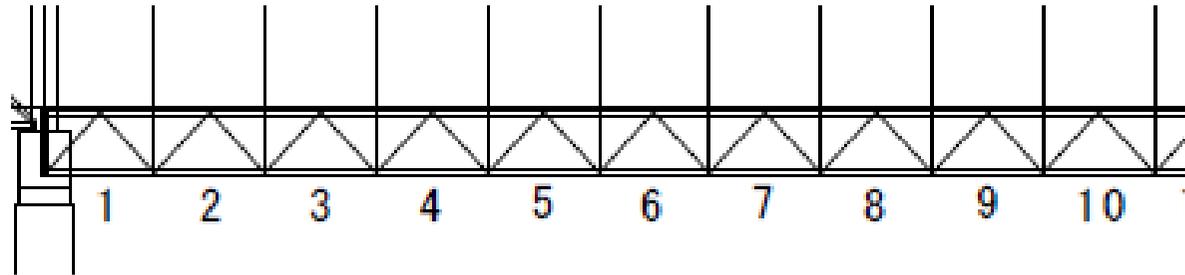
Up side

Bottom side

Left side

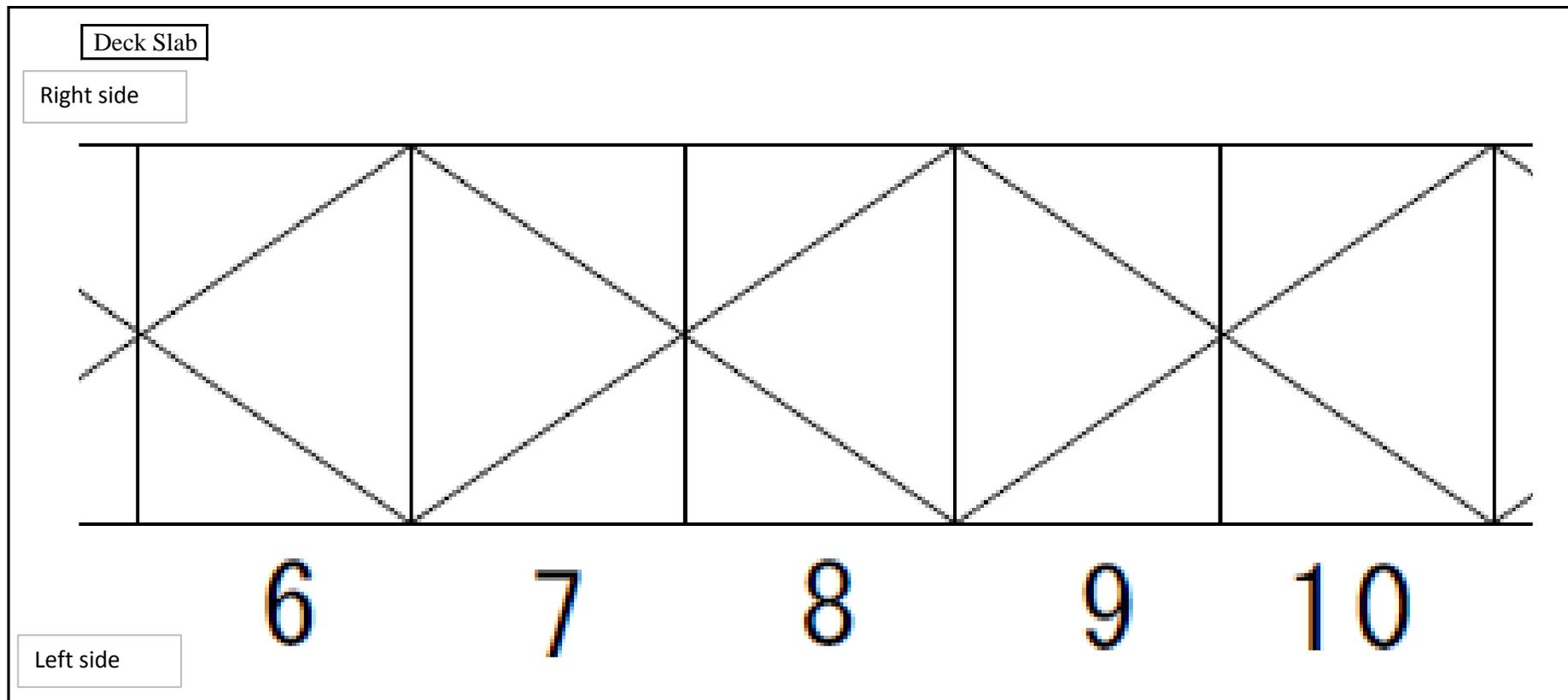
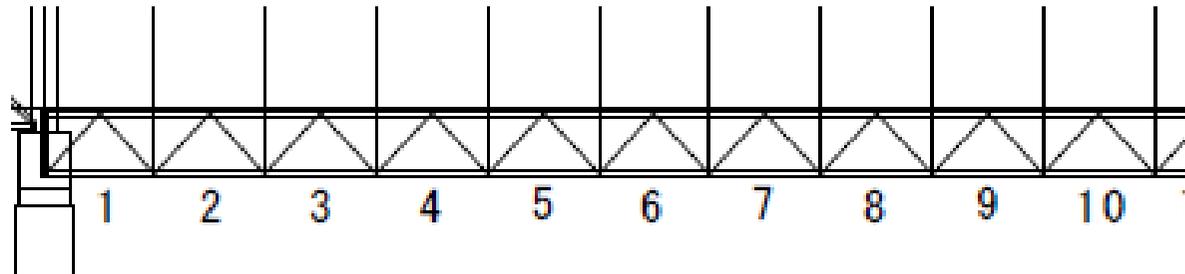
Right side

Sketch of Bridge Condition Inspection  
Magapit Bridge

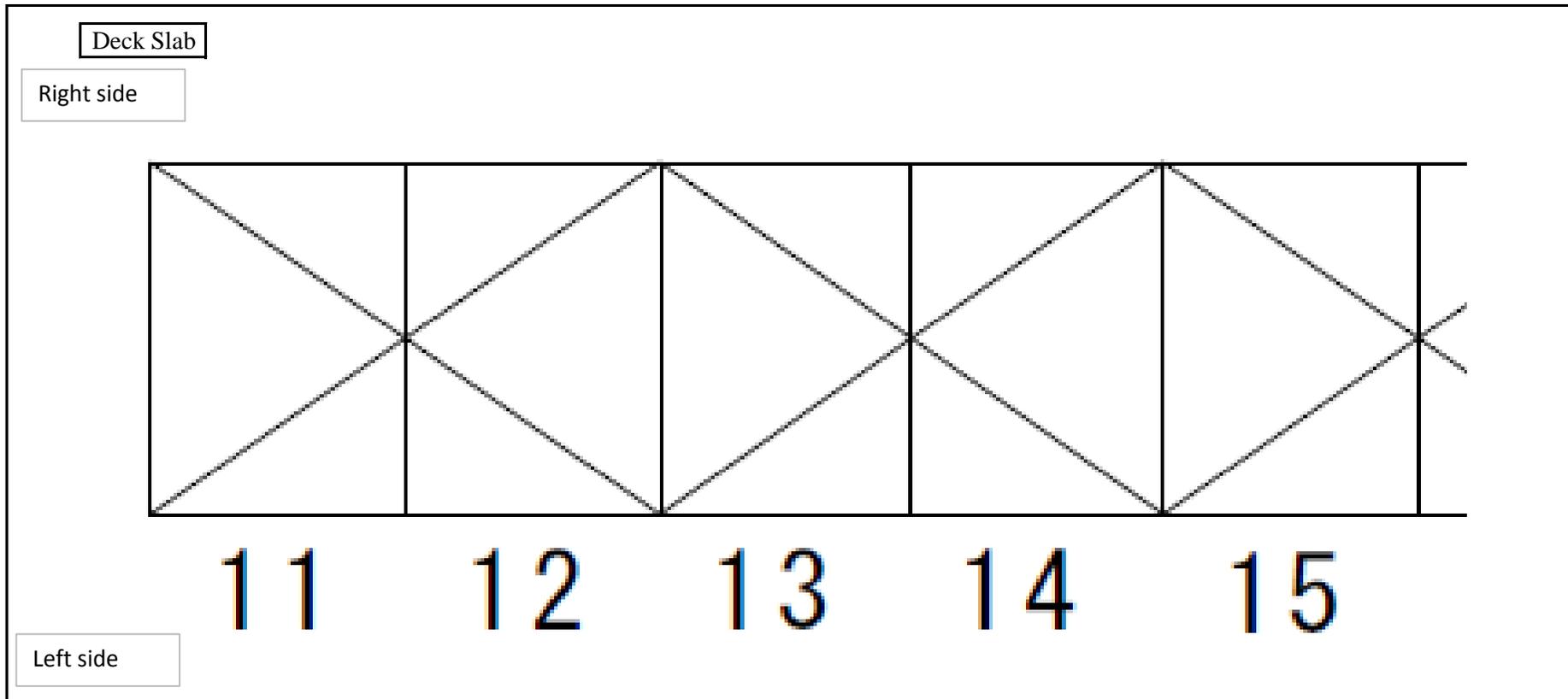
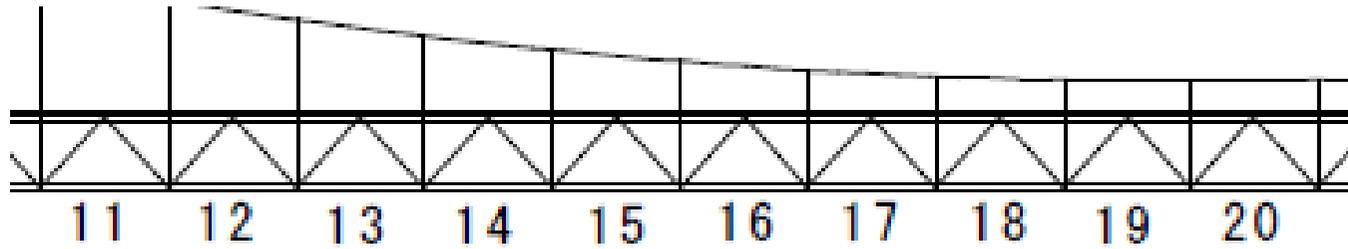


|  |
|--|
| Deck Slab  |
| Right side   |
| <p>A truss diagram for inspection, showing 5 spans. The spans are numbered 1 through 5 from left to right. The diagram consists of a rectangular frame with diagonal members forming a series of triangles. The top and bottom chords are horizontal, and the vertical members connect them. The diagonal members cross each other in the center of each span.</p> |
| Left side  |

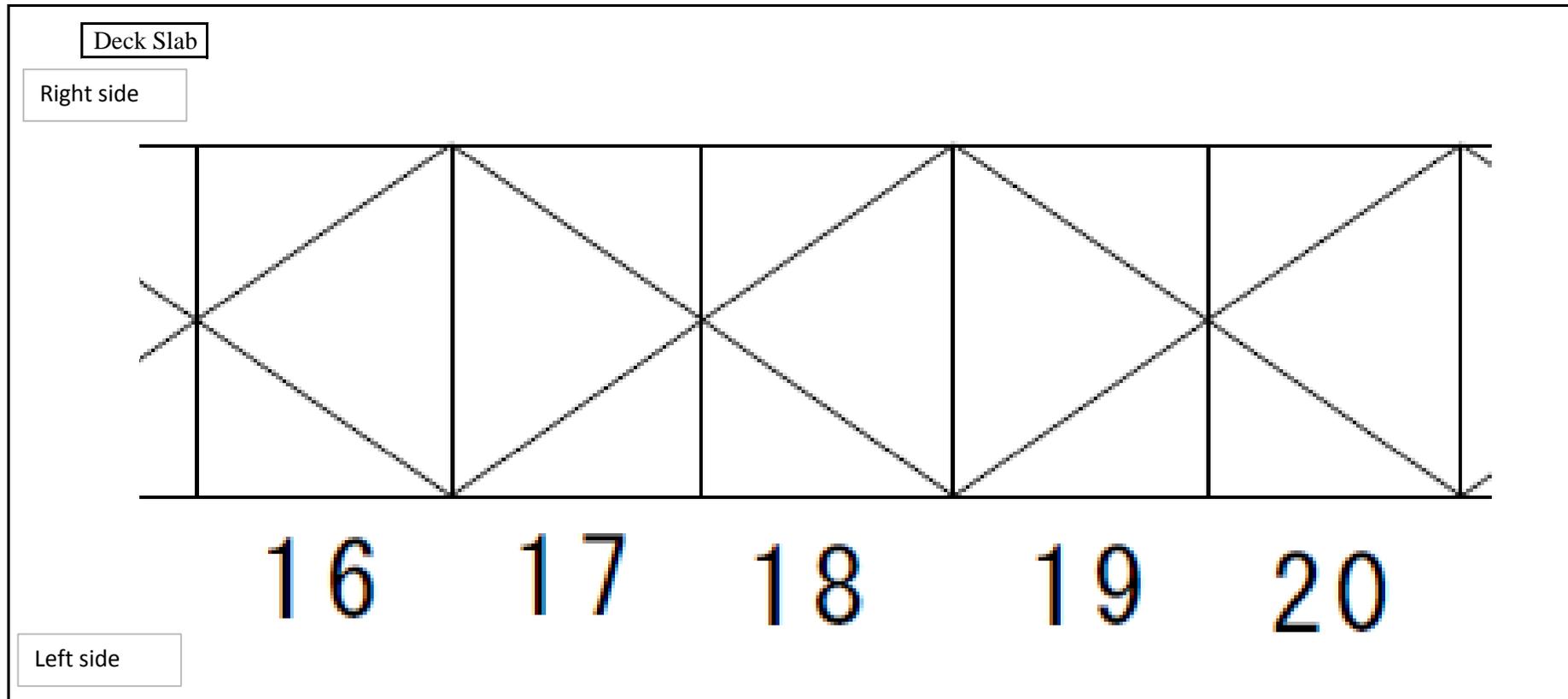
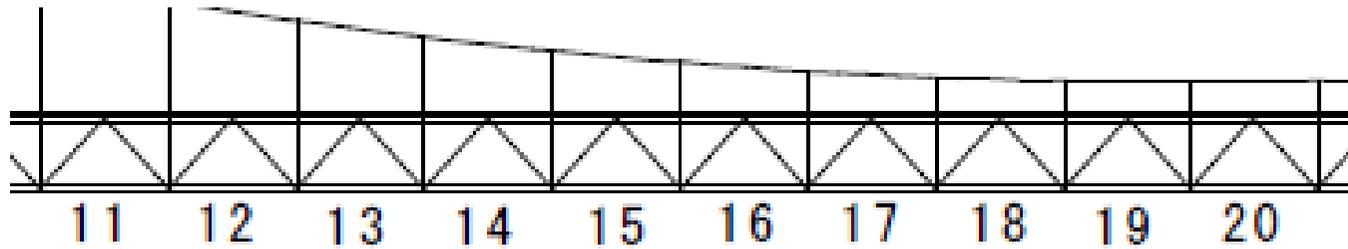
Sketch of Bridge Condition Inspection  
Magapit Bridge



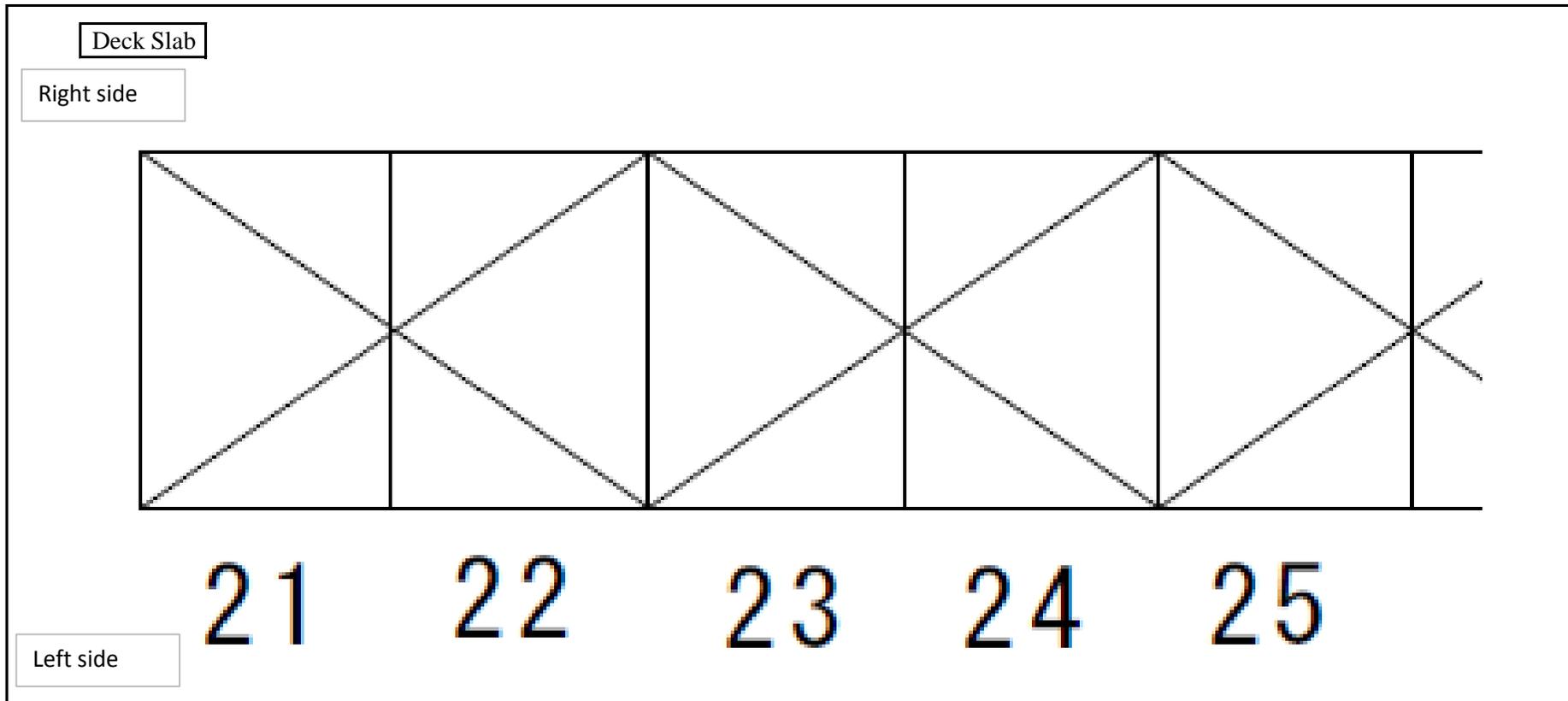
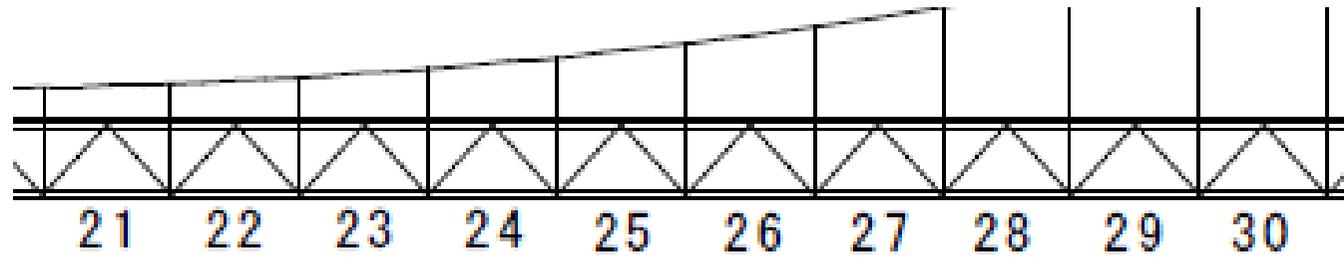
Sketch of Bridge Condition Inspection  
Magapit Bridge



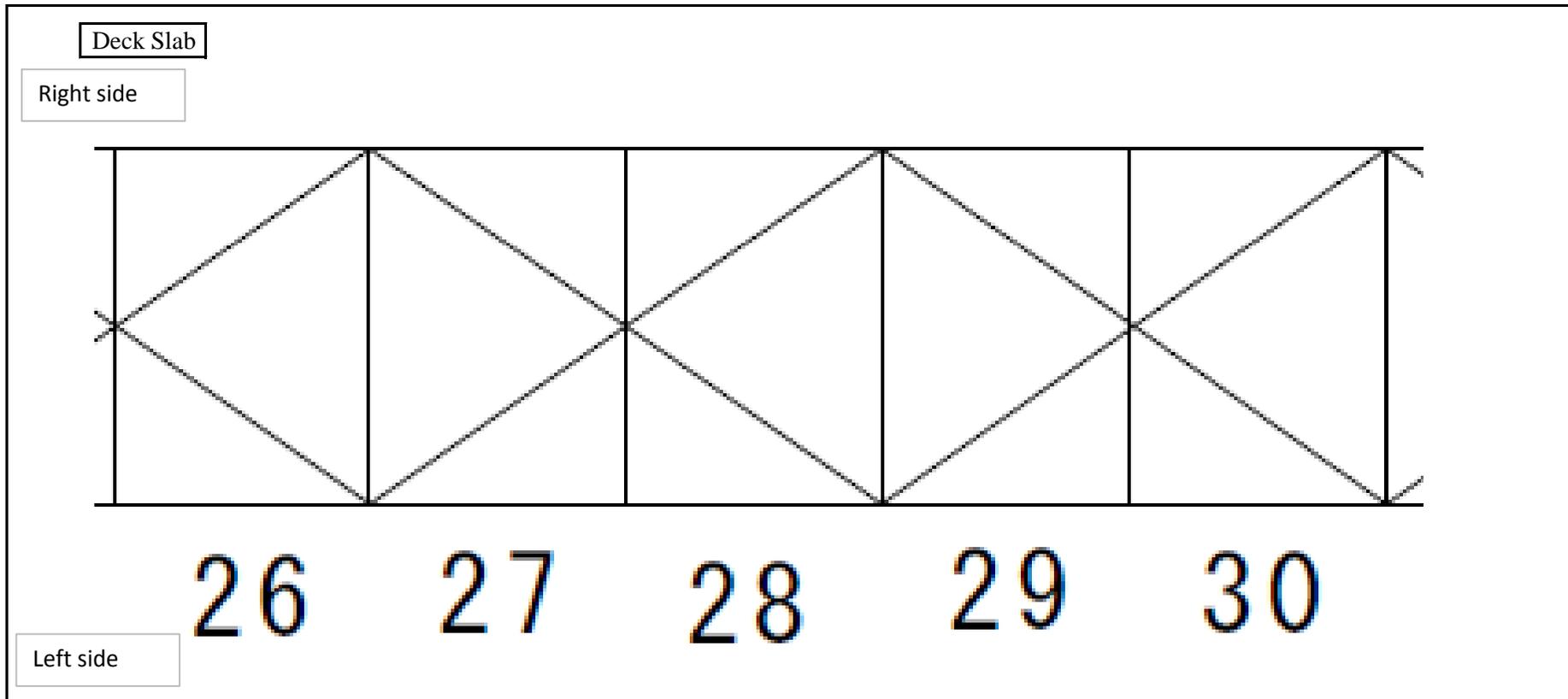
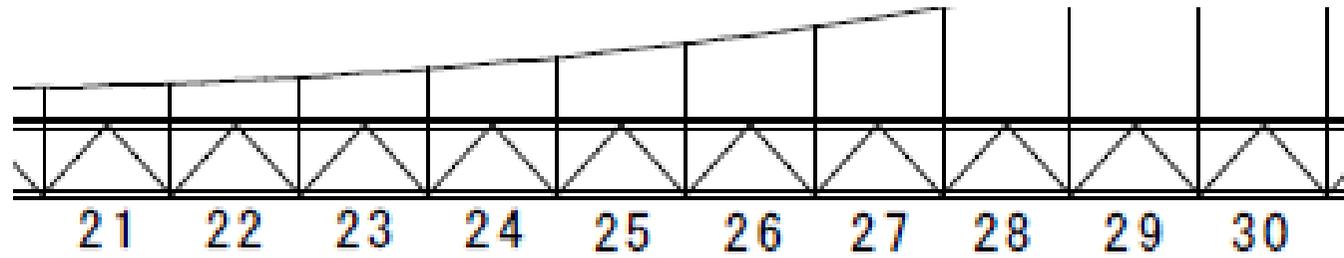
Sketch of Bridge Condition Inspection  
Magapit Bridge



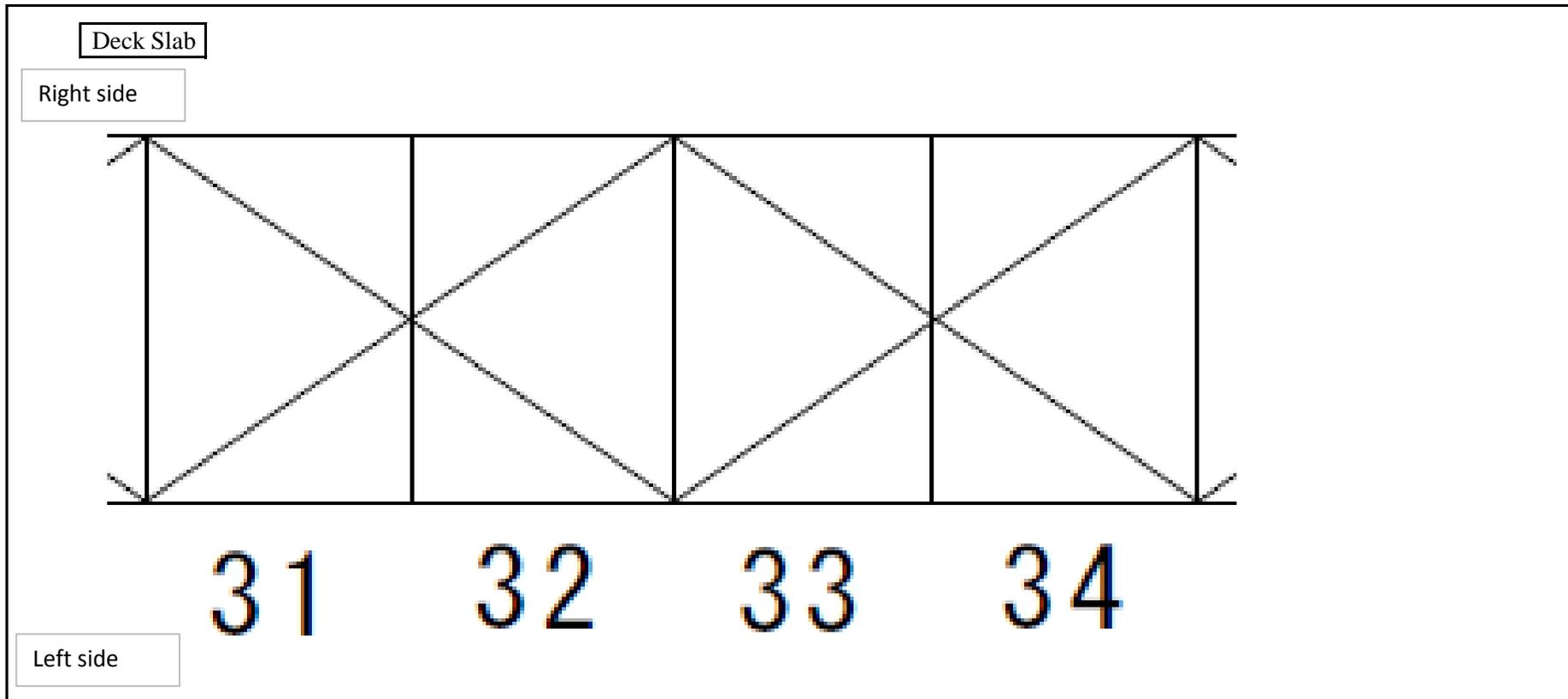
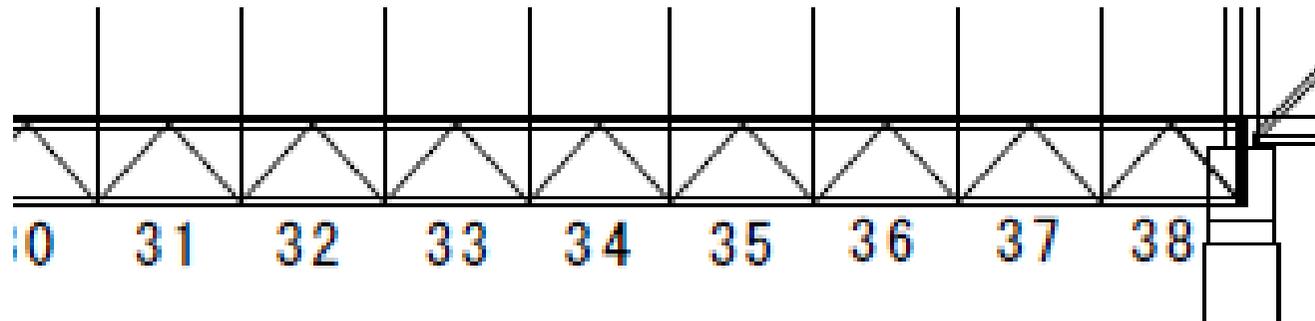
Sketch of Bridge Condition Inspection  
Magapit Bridge



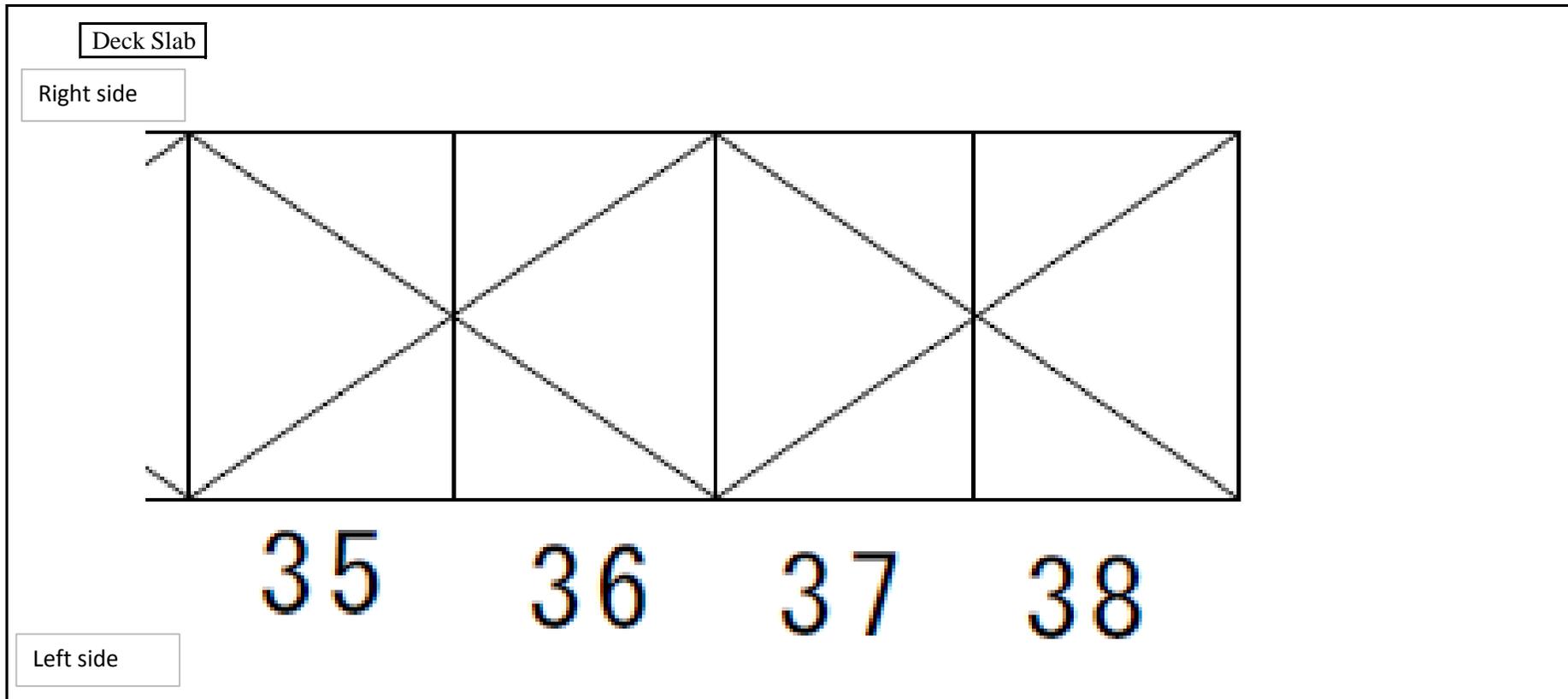
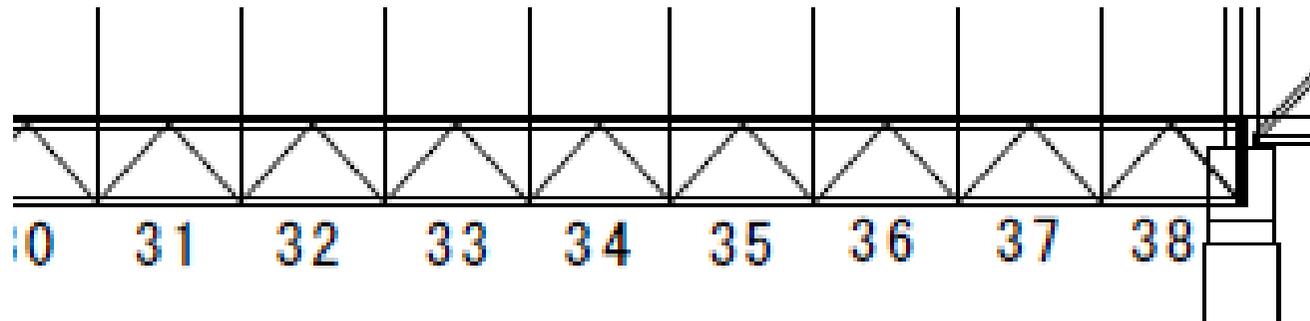
Sketch of Bridge Condition Inspection  
Magapit Bridge



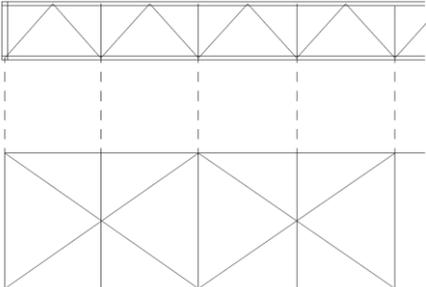
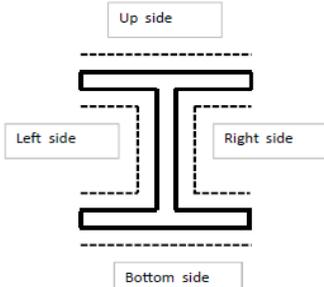
Sketch of Bridge Condition Inspection  
Magapit Bridge



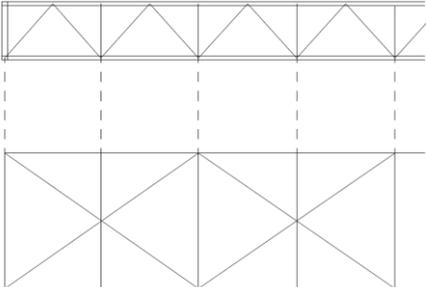
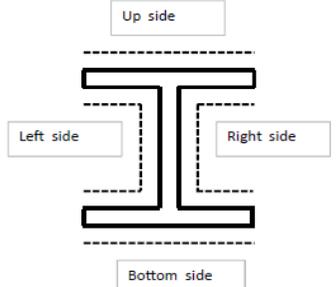
Sketch of Bridge Condition Inspection  
Magapit Bridge



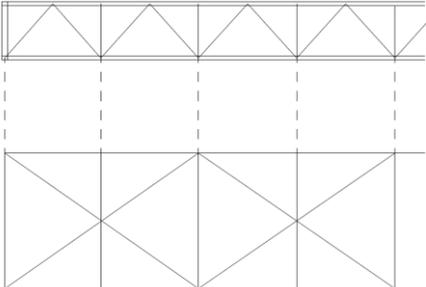
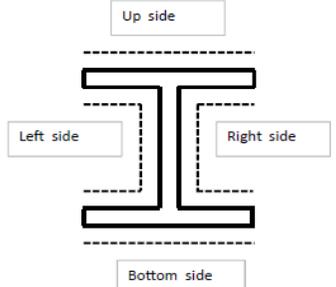
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |   |
|---|--|---|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom of<br/>Suspension Bridge</div> |  |   |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">S3</div>                              |  |   |   |
| <b>1LB-L</b>  |  | <b>1LB-R</b>  |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                         |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                     |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                       |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                      |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>  |   |
| <b>1LT-L</b>  |  | <b>1LT-R</b>  |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                         |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                     |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                       |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                      |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>  |   |

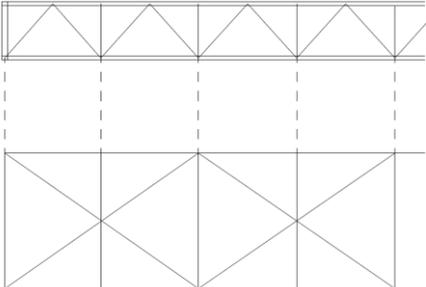
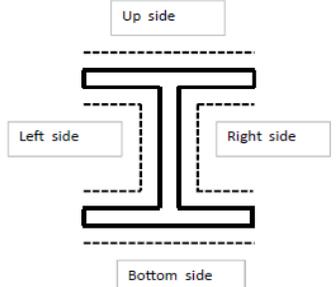
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |   |
|---|--|---|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom of<br/>Suspension Bridge</div> |  |   |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">S3</div>                              |  |   |   |
| 2LB-L   |  | 2LB-R   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                         |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                     |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                       |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                      |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>  |   |
| 2LT-L   |  | 2LT-R   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                         |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                     |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                       |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                      |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>  |   |

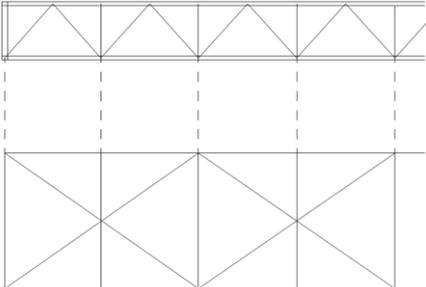
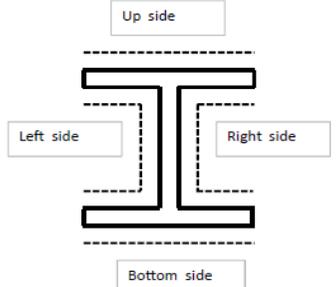
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |   |
|---|--|---|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom of<br/>Suspension Bridge</div> |  |   |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">S3</div>                              |  |   |   |
| 3LB-L   |  | 3LB-R   |   |
| <div style="border: 1px solid black; padding: 2px;">Up side</div>   |  | <div style="border: 1px solid black; padding: 2px;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px;">Bottom side</div>   |  | <div style="border: 1px solid black; padding: 2px;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px;">Left side</div>   |  | <div style="border: 1px solid black; padding: 2px;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px;">Right side</div>  |  | <div style="border: 1px solid black; padding: 2px;">Right side</div>  |   |
| 3LT-L   |  | 3LT-R   |   |
| <div style="border: 1px solid black; padding: 2px;">Up side</div>   |  | <div style="border: 1px solid black; padding: 2px;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px;">Bottom side</div>   |  | <div style="border: 1px solid black; padding: 2px;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px;">Left side</div>   |  | <div style="border: 1px solid black; padding: 2px;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px;">Right side</div>  |  | <div style="border: 1px solid black; padding: 2px;">Right side</div>  |   |

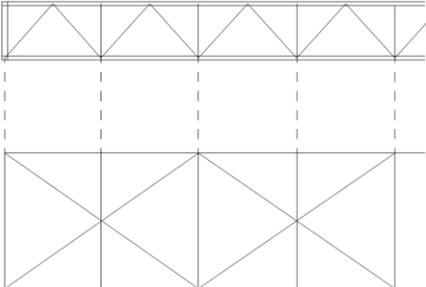
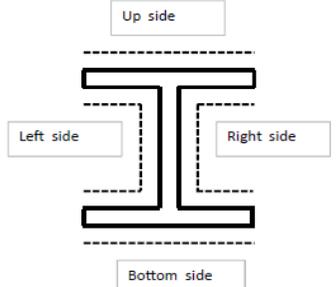
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |   |   |
|--|--|--|---|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |  |  |   |
| <p>4 LB-L</p>  |  |  | <p>4 LB-R</p>   |   |
| Up side  | <input style="width: 100%;" type="text"/>  |  | Up side   | <input style="width: 100%;" type="text"/> |
| Bottom side  | <input style="width: 100%;" type="text"/>  |  | Bottom side   | <input style="width: 100%;" type="text"/> |
| Left side  | <input style="width: 100%;" type="text"/>  |  | Left side   | <input style="width: 100%;" type="text"/> |
| Right side   | <input style="width: 100%;" type="text"/>  |  | Right side  | <input style="width: 100%;" type="text"/> |
| <p>4 LT-L</p>  |  |  | <p>4 LT-R</p>   |   |
| Up side  | <input style="width: 100%;" type="text"/>  |  | Up side   | <input style="width: 100%;" type="text"/> |
| Bottom side  | <input style="width: 100%;" type="text"/>  |  | Bottom side   | <input style="width: 100%;" type="text"/> |
| Left side  | <input style="width: 100%;" type="text"/>  |  | Left side   | <input style="width: 100%;" type="text"/> |
| Right side   | <input style="width: 100%;" type="text"/>  |  | Right side  | <input style="width: 100%;" type="text"/> |

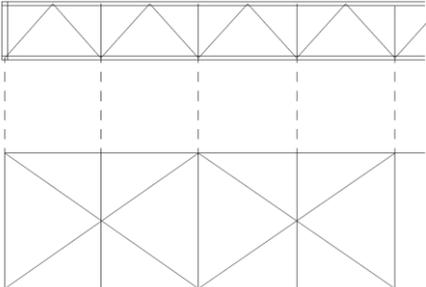
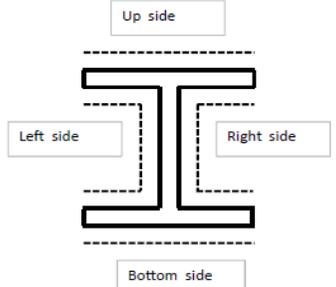
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |               |   |
|--|--|---------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |               |  |
| <p>5 LB-L</p>  |  | <p>5 LB-R</p> |   |
| Up side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Up side       | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Bottom side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Bottom side   | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Left side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Left side     | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Right side   | <input style="width: 100%; height: 20px;" type="text"/>                            | Right side    | <input style="width: 100%; height: 20px;" type="text"/>                             |
| <p>5 LT-L</p>  |  | <p>5 LT-R</p> |   |
| Up side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Up side       | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Bottom side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Bottom side   | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Left side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Left side     | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Right side   | <input style="width: 100%; height: 20px;" type="text"/>                            | Right side    | <input style="width: 100%; height: 20px;" type="text"/>                             |

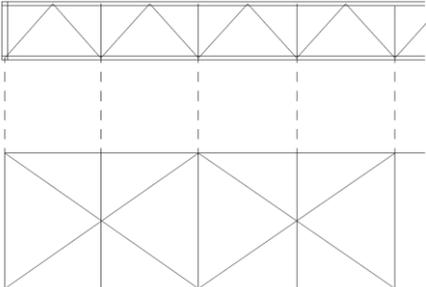
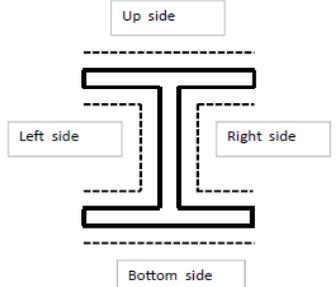
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |   |
|---|--|---|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom of<br/>Suspension Bridge</div> |  |   |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">S3</div>                              |  |   |   |
| 6 LB-L  |  | 6 LB-R  |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                         |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                     |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                       |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                      |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>  |   |
| 6 LT-L  |  | 6 LT-R  |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                         |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                     |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                       |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                      |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>  |   |

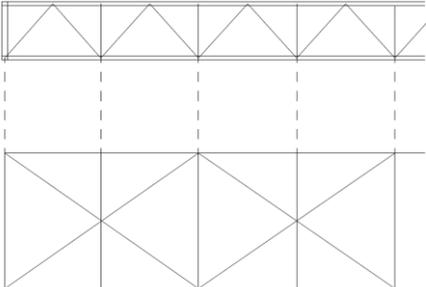
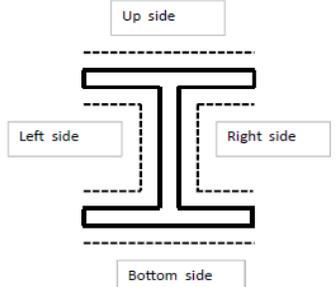
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |               |   |
|--|--|---------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |               |  |
| <p>7 LB-L</p>  |  | <p>7 LB-R</p> |   |
| Up side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Up side       | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Bottom side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Bottom side   | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Left side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Left side     | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Right side   | <input style="width: 100%; height: 20px;" type="text"/>                            | Right side    | <input style="width: 100%; height: 20px;" type="text"/>                             |
| <p>7 LT-L</p>  |  | <p>7 LT-R</p> |   |
| Up side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Up side       | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Bottom side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Bottom side   | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Left side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Left side     | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Right side   | <input style="width: 100%; height: 20px;" type="text"/>                            | Right side    | <input style="width: 100%; height: 20px;" type="text"/>                             |

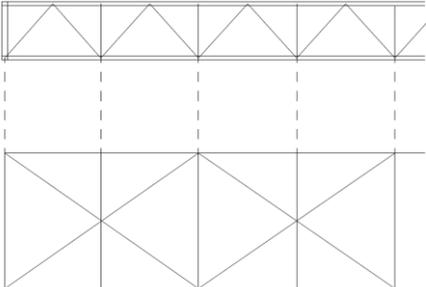
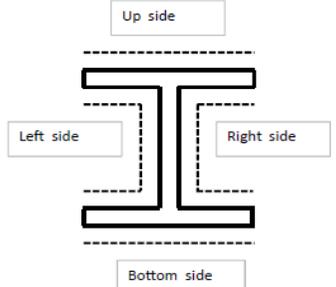
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |               |   |
|--|--|---------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |               |  |
| <p>8 LB-L</p>  |  | <p>8 LB-R</p> |   |
| Up side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Up side       | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Bottom side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Bottom side   | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Left side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Left side     | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Right side   | <input style="width: 100%; height: 20px;" type="text"/>                            | Right side    | <input style="width: 100%; height: 20px;" type="text"/>                             |
| <p>8 LT-L</p>  |  | <p>8 LT-R</p> |   |
| Up side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Up side       | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Bottom side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Bottom side   | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Left side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Left side     | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Right side   | <input style="width: 100%; height: 20px;" type="text"/>                            | Right side    | <input style="width: 100%; height: 20px;" type="text"/>                             |

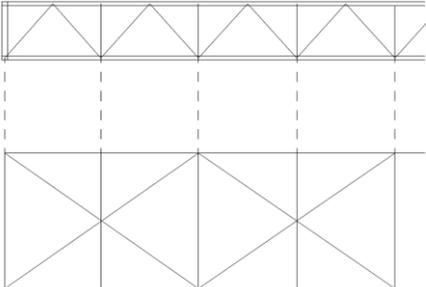
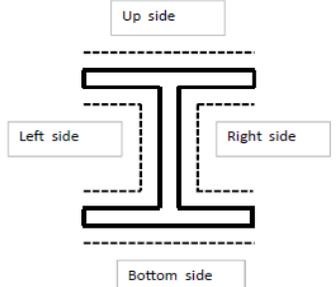
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |               |   |
|--|--|---------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |               |  |
| <p>9 LB-L</p>  |  | <p>9 LB-R</p> |   |
| Up side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Up side       | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Bottom side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Bottom side   | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Left side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Left side     | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Right side   | <input style="width: 100%; height: 20px;" type="text"/>                            | Right side    | <input style="width: 100%; height: 20px;" type="text"/>                             |
| <p>9 LT-L</p>  |  | <p>9 LT-R</p> |   |
| Up side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Up side       | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Bottom side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Bottom side   | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Left side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Left side     | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Right side   | <input style="width: 100%; height: 20px;" type="text"/>                            | Right side    | <input style="width: 100%; height: 20px;" type="text"/>                             |

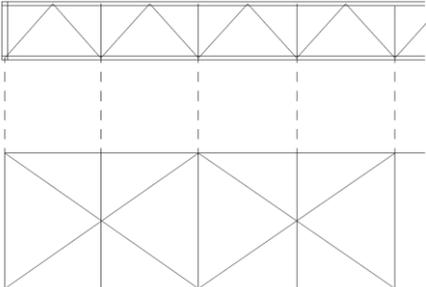
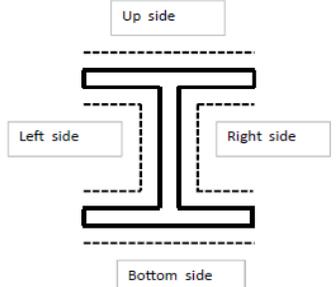
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |                |   |
|--|--|----------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |                |  |
| <p>10 LB-L</p>   |  | <p>10 LB-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |
| <p>10 LT-L</p>   |  | <p>10 LT-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |

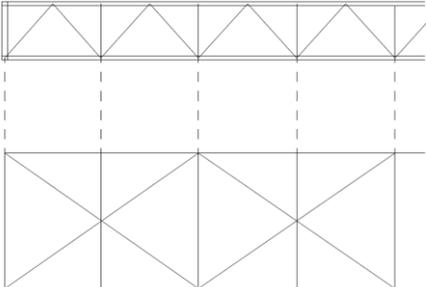
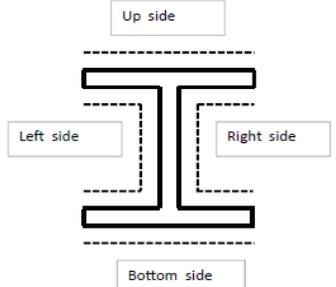
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |   |
|---|--|---|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">S3</div>  |  |   |  |
| <div style="text-align: center; margin-bottom: 5px;">11 LB-L</div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> |  | <div style="text-align: center; margin-bottom: 5px;">11 LB-R</div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> |   |
| <div style="text-align: center; margin-bottom: 5px;">11 LT-L</div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> |  | <div style="text-align: center; margin-bottom: 5px;">11 LT-R</div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> |   |

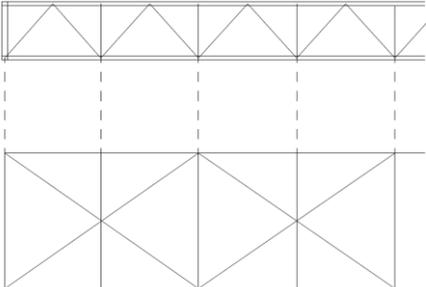
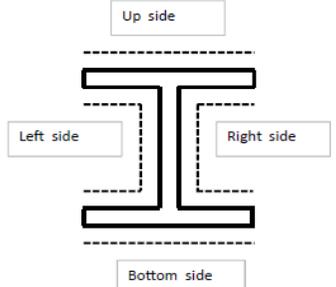
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |   |  |
|--|--|--|---|--|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |  |  |  |
| <p>12 LB-L</p>   |  |  | <p>12 LB-R</p>  |  |
| Up side  |  |  | Up side   |  |
| Bottom side  |  |  | Bottom side   |  |
| Left side  |  |  | Left side   |  |
| Right side   |  |  | Right side  |  |
| <p>12 LT-L</p>   |  |  | <p>12 LT-R</p>  |  |
| Up side  |  |  | Up side   |  |
| Bottom side  |  |  | Bottom side   |  |
| Left side  |  |  | Left side   |  |
| Right side   |  |  | Right side  |  |

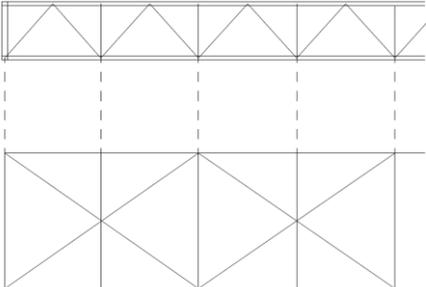
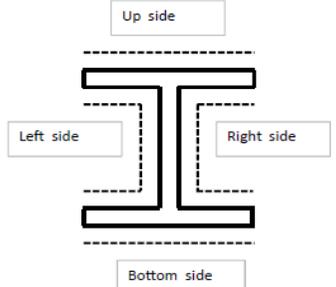
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |                |   |
|--|--|----------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |                |  |
| <p>13 LB-L</p>   |  | <p>13 LB-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |
| <p>13 LT-L</p>   |  | <p>13 LT-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |

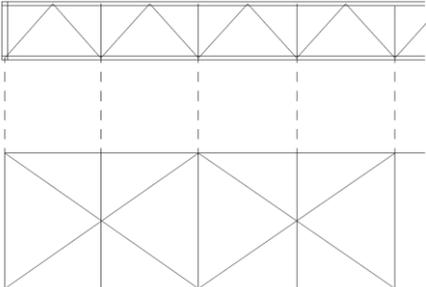
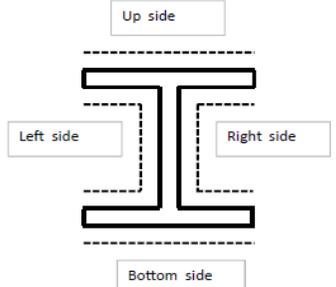
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |                |   |
|--|--|----------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |                |  |
| <p>14 LB-L</p>   |  | <p>14 LB-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |
| <p>14 LT-L</p>   |  | <p>14 LT-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |

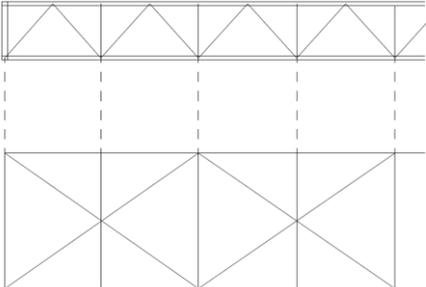
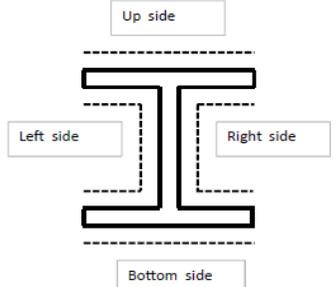
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |   |
|---|--|---|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom of<br/>Suspension Bridge</div> |  |   |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">S3</div>                              |  |   |   |
| 15 LB-L   |  | 15 LB-R   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                         |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                     |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                       |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                      |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>  |   |
| 15 LT-L   |  | 15 LT-R   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                         |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                     |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                       |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                      |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>  |   |

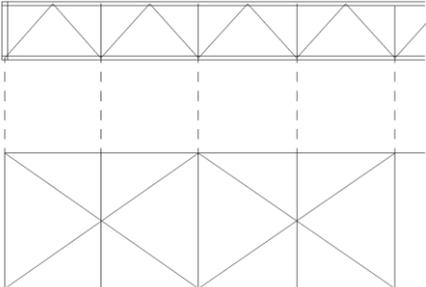
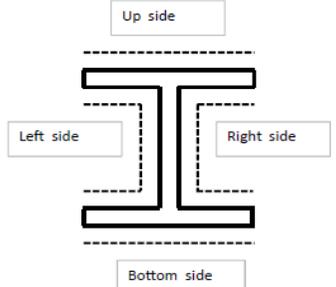
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |                |   |
|--|--|----------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |                |  |
| <p>16 LB-L</p>   |  | <p>16 LB-R</p> |   |
| Up side  | <input style="width: 100%;" type="text"/>  | Up side        | <input style="width: 100%;" type="text"/>   |
| Bottom side  | <input style="width: 100%;" type="text"/>  | Bottom side    | <input style="width: 100%;" type="text"/>   |
| Left side  | <input style="width: 100%;" type="text"/>  | Left side      | <input style="width: 100%;" type="text"/>   |
| Right side   | <input style="width: 100%;" type="text"/>  | Right side     | <input style="width: 100%;" type="text"/>   |
| <p>16 LT-L</p>   |  | <p>16 LT-R</p> |   |
| Up side  | <input style="width: 100%;" type="text"/>  | Up side        | <input style="width: 100%;" type="text"/>   |
| Bottom side  | <input style="width: 100%;" type="text"/>  | Bottom side    | <input style="width: 100%;" type="text"/>   |
| Left side  | <input style="width: 100%;" type="text"/>  | Left side      | <input style="width: 100%;" type="text"/>   |
| Right side   | <input style="width: 100%;" type="text"/>  | Right side     | <input style="width: 100%;" type="text"/>   |

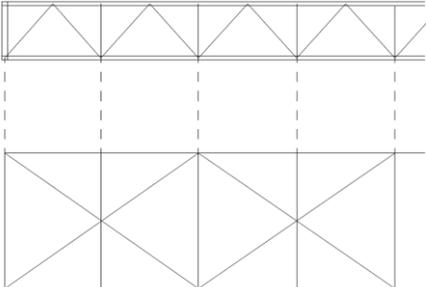
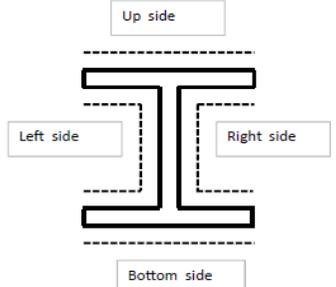
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |                |   |
|--|--|----------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |                |  |
| <p>17 LB-L</p>   |  | <p>17 LB-R</p> |   |
| Up side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Up side        | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Bottom side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Bottom side    | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Left side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Left side      | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Right side   | <input style="width: 100%; height: 20px;" type="text"/>                            | Right side     | <input style="width: 100%; height: 20px;" type="text"/>                             |
| <p>17 LT-L</p>   |  | <p>17 LT-R</p> |   |
| Up side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Up side        | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Bottom side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Bottom side    | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Left side  | <input style="width: 100%; height: 20px;" type="text"/>                            | Left side      | <input style="width: 100%; height: 20px;" type="text"/>                             |
| Right side   | <input style="width: 100%; height: 20px;" type="text"/>                            | Right side     | <input style="width: 100%; height: 20px;" type="text"/>                             |

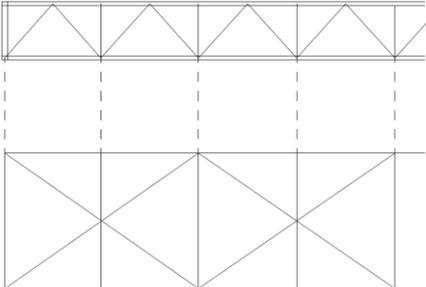
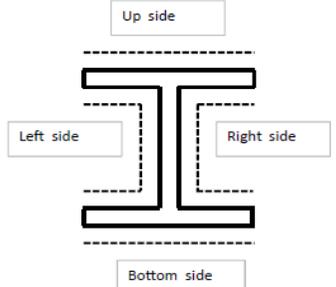
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |   |
|---|--|---|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Bottom of<br/>Suspension Bridge</div> |  |   |  |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">S3</div>                              |  |   |   |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">18 LB-L</div>                         |  | <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">18 LB-R</div>     |   |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Up side</div>                         |  | <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Bottom side</div>                     |  | <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Left side</div>                       |  | <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Right side</div>                      |  | <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Right side</div>  |   |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">18 LT-L</div>                         |  | <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">18 LT-R</div>     |   |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Up side</div>                         |  | <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Bottom side</div>                     |  | <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Left side</div>                       |  | <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Right side</div>                      |  | <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Right side</div>  |   |

## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |                |   |
|--|--|----------------|---|
| <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">S3</div> |  |                |  |
| <p>19 LB-L</p>   |  | <p>19 LB-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |
| <p>19 LT-L</p>   |  | <p>19 LT-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |

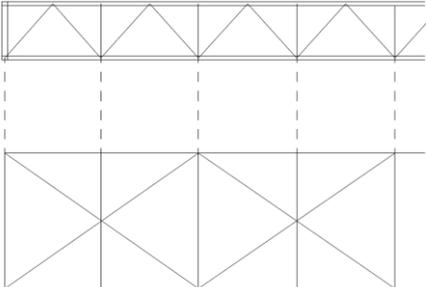
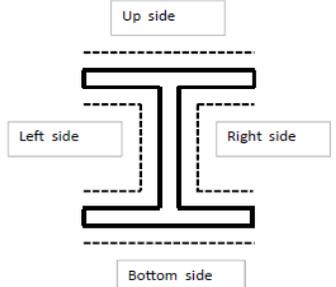
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |   |
|---|--|---|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom of<br/>Suspension Bridge</div> |  |   |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">S3</div>                              |  |   |   |
| 20 LB-L   |  | 4 LB-R  |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                         |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                     |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                       |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                      |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>  |   |
| 4 LT-L  |  | 4 LT-R  |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                         |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                     |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                       |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                      |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>  |   |

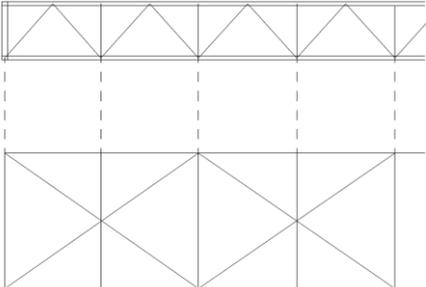
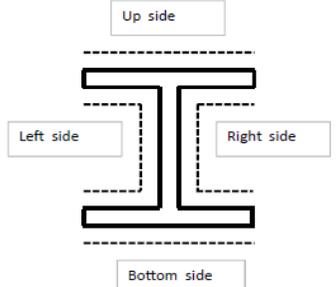
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |                |  |
|--|--|--|----------------|--|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |  |                |  |
| <p>21 LB-L</p>   |  |  | <p>21 LB-R</p> |  |
| Up side  |  |  | Up side        |  |
| Bottom side  |  |  | Bottom side    |  |
| Left side  |  |  | Left side      |  |
| Right side   |  |  | Right side     |  |
| <p>21 LT-L</p>   |  |  | <p>21 LT-R</p> |  |
| Up side  |  |  | Up side        |  |
| Bottom side  |  |  | Bottom side    |  |
| Left side  |  |  | Left side      |  |
| Right side   |  |  | Right side     |  |

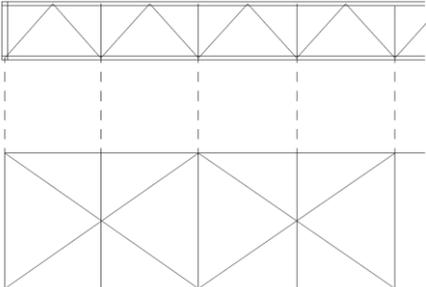
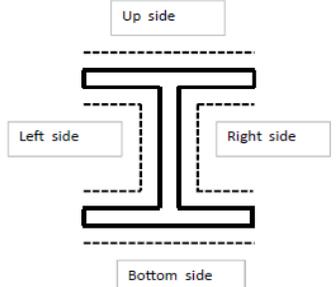
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |                |   |
|--|--|----------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |                |  |
| <p>22 LB-L</p>   |  | <p>22 LB-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |
| <p>22 LT-L</p>   |  | <p>22 LT-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |

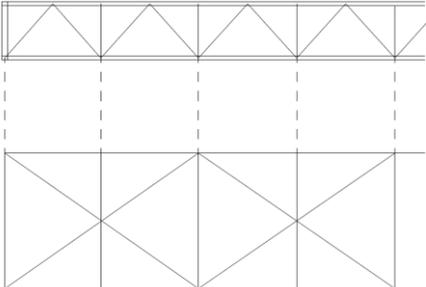
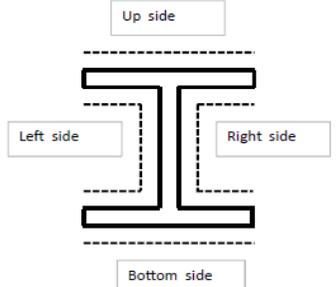
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |                |   |
|--|--|----------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |                |  |
| <p>23 LB-L</p>   |  | <p>23 LB-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |
| <p>23 LT-L</p>   |  | <p>23 LT-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |

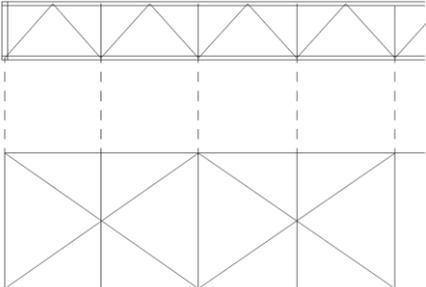
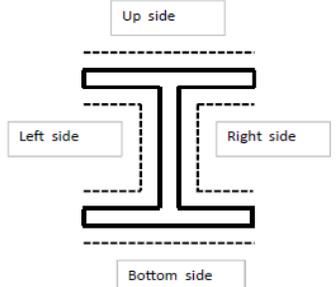
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |   |
|---|--|---|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">S3</div>  |  |   |  |
| <p style="text-align: center; margin-top: 10px;">24 LB-L</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Up side</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Bottom side</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Left side</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Right side</div> |  | <p style="text-align: center; margin-top: 10px;">24 LB-R</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Up side</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Bottom side</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Left side</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Right side</div> |   |
| <p style="text-align: center; margin-top: 10px;">24 LT-L</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Up side</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Bottom side</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Left side</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Right side</div> |  | <p style="text-align: center; margin-top: 10px;">24 LT-R</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Up side</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Bottom side</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Left side</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; width: 100%;">Right side</div> |   |

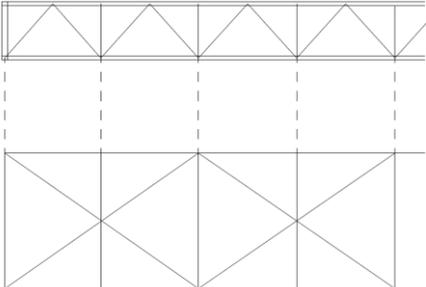
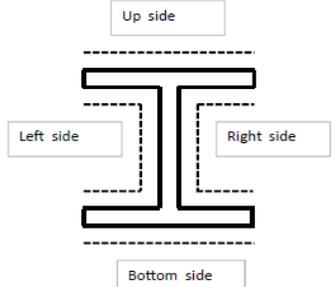
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |                |   |
|--|--|----------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |                |  |
| <p>25 LB-L</p>   |  | <p>25 LB-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |
| <p>25 LT-L</p>   |  | <p>25 LT-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |

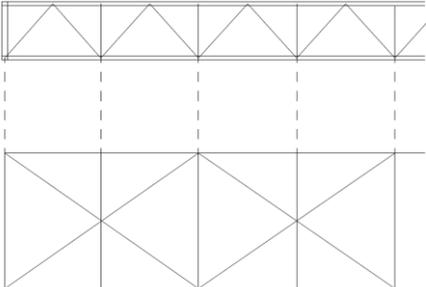
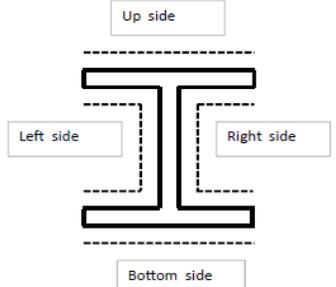
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |                |   |
|--|--|----------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |                |  |
| <p>26 LB-L</p>   |  | <p>26 LB-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |
| <p>26 LT-L</p>   |  | <p>26 LT-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |

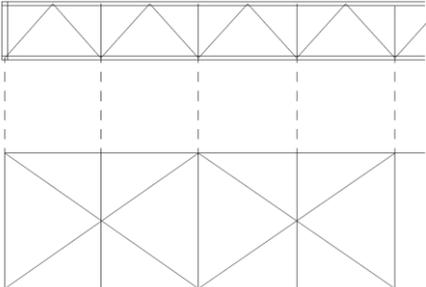
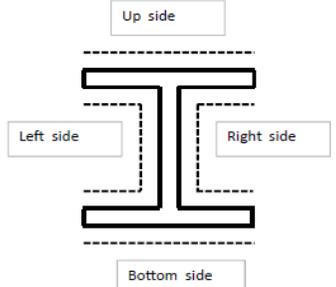
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |   |   |
|--|--|--|---|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |  |  |   |
| <p>27 LB-L</p>   |  |  | <p>27 LB-R</p>  |   |
| Up side  | <input style="width: 100%;" type="text"/>  |  | Up side   | <input style="width: 100%;" type="text"/> |
| Bottom side  | <input style="width: 100%;" type="text"/>  |  | Bottom side   | <input style="width: 100%;" type="text"/> |
| Left side  | <input style="width: 100%;" type="text"/>  |  | Left side   | <input style="width: 100%;" type="text"/> |
| Right side   | <input style="width: 100%;" type="text"/>  |  | Right side  | <input style="width: 100%;" type="text"/> |
| <p>27 LT-L</p>   |  |  | <p>27 LT-R</p>  |   |
| Up side  | <input style="width: 100%;" type="text"/>  |  | Up side   | <input style="width: 100%;" type="text"/> |
| Bottom side  | <input style="width: 100%;" type="text"/>  |  | Bottom side   | <input style="width: 100%;" type="text"/> |
| Left side  | <input style="width: 100%;" type="text"/>  |  | Left side   | <input style="width: 100%;" type="text"/> |
| Right side   | <input style="width: 100%;" type="text"/>  |  | Right side  | <input style="width: 100%;" type="text"/> |

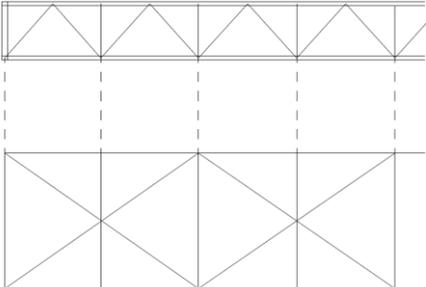
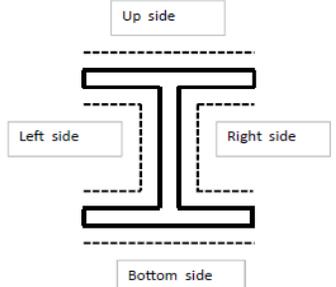
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |   |
|---|--|---|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">S3</div>  |  |   |  |
| <p style="text-align: center; margin-top: 10px;">28 LB-L</p> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> |  | <p style="text-align: center; margin-top: 10px;">28 LB-R</p> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> |   |
| <p style="text-align: center; margin-top: 10px;">28 LT-L</p> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> |  | <p style="text-align: center; margin-top: 10px;">28 LT-R</p> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Up side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Bottom side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Left side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 15%;">Right side</div> <div style="border: 1px solid black; width: 80%; height: 20px;"></div> </div> |   |

## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |   |   |
|--|--|---|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |   |  |
| <p>29 LB-L</p>   |  | <p>29 LB-R</p>  |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div>  |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div>  |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div>  |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div>   |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div>  |   |
| <p>29 LT-L</p>   |  | <p>29 LT-R</p>  |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div>  |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div>  |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div>  |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div>   |  | <div style="border: 1px solid black; padding: 2px; width: fit-content;">Right side</div>  |   |

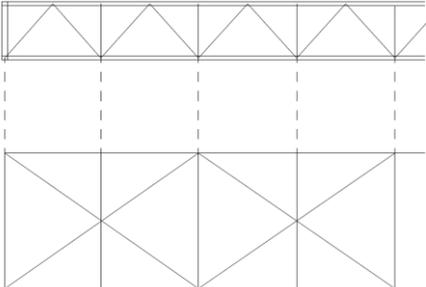
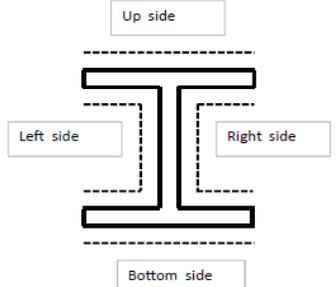
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |   |
|---|--|---|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom of<br/>Suspension Bridge</div> |  |   |  |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">S3</div>                              |  |   |   |
| 30 LB-L   |  | 30 LB-R   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                         |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                     |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                       |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                      |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>  |   |
| 30 LT-L   |  | 30 LT-R   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>                         |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Up side</div>     |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div>                     |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Bottom side</div> |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>                       |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Left side</div>   |   |
| <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>                      |  | <div style="border: 1px solid black; padding: 2px; text-align: center;">Right side</div>  |   |

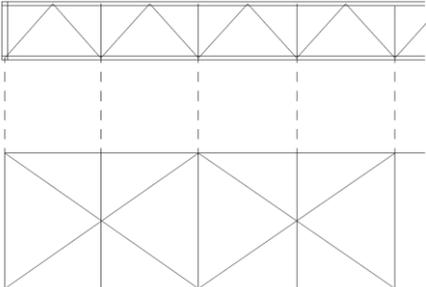
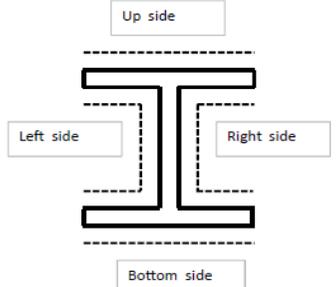
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |                |  |
|--|--|--|----------------|--|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |  |                |  |
| <p>31 LB-L</p>   |  |  | <p>31 LB-R</p> |  |
| Up side  |  |  | Up side        |  |
| Bottom side  |  |  | Bottom side    |  |
| Left side  |  |  | Left side      |  |
| Right side   |  |  | Right side     |  |
| <p>31 LT-L</p>   |  |  | <p>31 LT-R</p> |  |
| Up side  |  |  | Up side        |  |
| Bottom side  |  |  | Bottom side    |  |
| Left side  |  |  | Left side      |  |
| Right side   |  |  | Right side     |  |

## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |                |   |
|--|--|----------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |                |  |
| <p>32 LB-L</p>   |  | <p>32 LB-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |
| <p>32 LT-L</p>   |  | <p>32 LT-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |

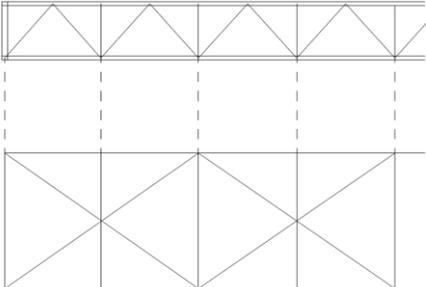
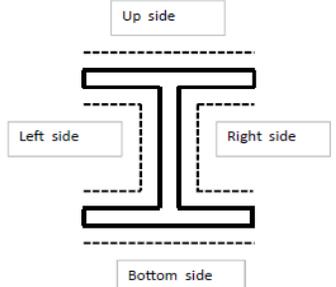
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |                |   |
|--|--|----------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |                |  |
| <p>33 LB-L</p>   |  | <p>33 LB-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |
| <p>33 LT-L</p>   |  | <p>33 LT-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |

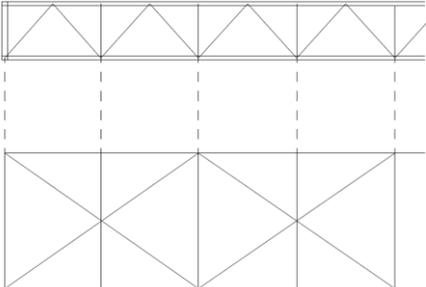
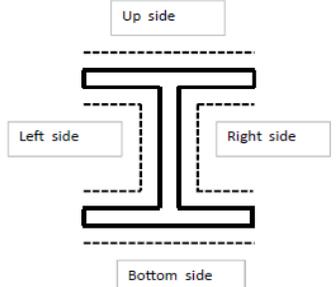
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |  |                |  |
|--|--|--|----------------|--|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |  |                |  |
| <p>34 LB-L</p>   |  |  | <p>34 LB-R</p> |  |
| Up side  |  |  | Up side        |  |
| Bottom side  |  |  | Bottom side    |  |
| Left side  |  |  | Left side      |  |
| Right side   |  |  | Right side     |  |
| <p>34 LT-L</p>   |  |  | <p>34 LT-R</p> |  |
| Up side  |  |  | Up side        |  |
| Bottom side  |  |  | Bottom side    |  |
| Left side  |  |  | Left side      |  |
| Right side   |  |  | Right side     |  |

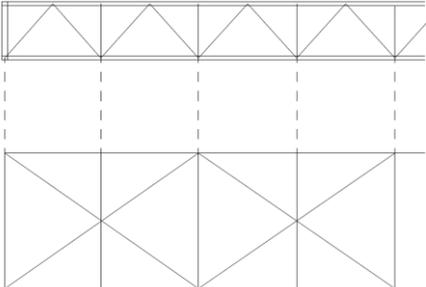
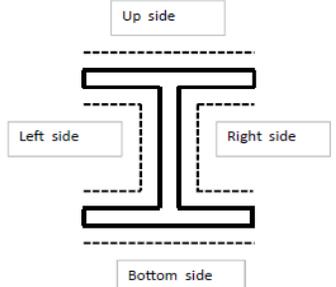
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |                |   |
|--|--|----------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |                |  |
| <p>35 LB-L</p>   |  | <p>35 LB-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |
| <p>35 LT-L</p>   |  | <p>35 LT-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |

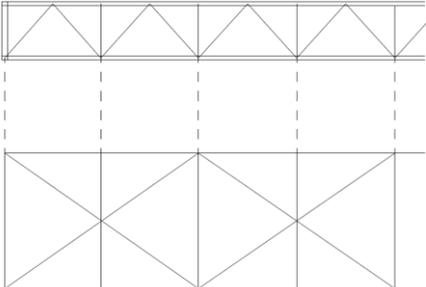
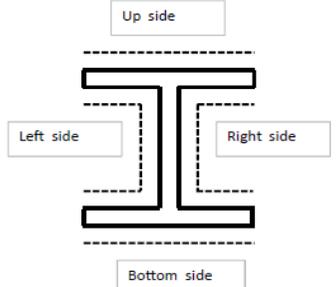
## Sketch of Bridge Condition Inspection Magapit Bridge

|   |  |   |   |
|---|--|---|---|
| <div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">S3</div>  |  |   |  |
| <p style="text-align: center; margin-top: 10px;">36 LB-L</p> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Up side</span> <input style="width: 100%; height: 20px;" type="text"/></div> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Bottom side</span> <input style="width: 100%; height: 20px;" type="text"/></div> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Left side</span> <input style="width: 100%; height: 20px;" type="text"/></div> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Right side</span> <input style="width: 100%; height: 20px;" type="text"/></div> |  | <p style="text-align: center; margin-top: 10px;">36 LB-R</p> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Up side</span> <input style="width: 100%; height: 20px;" type="text"/></div> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Bottom side</span> <input style="width: 100%; height: 20px;" type="text"/></div> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Left side</span> <input style="width: 100%; height: 20px;" type="text"/></div> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Right side</span> <input style="width: 100%; height: 20px;" type="text"/></div> |   |
| <p style="text-align: center; margin-top: 10px;">36 LT-L</p> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Up side</span> <input style="width: 100%; height: 20px;" type="text"/></div> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Bottom side</span> <input style="width: 100%; height: 20px;" type="text"/></div> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Left side</span> <input style="width: 100%; height: 20px;" type="text"/></div> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Right side</span> <input style="width: 100%; height: 20px;" type="text"/></div> |  | <p style="text-align: center; margin-top: 10px;">36 LT-R</p> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Up side</span> <input style="width: 100%; height: 20px;" type="text"/></div> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Bottom side</span> <input style="width: 100%; height: 20px;" type="text"/></div> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Left side</span> <input style="width: 100%; height: 20px;" type="text"/></div> <div style="margin-bottom: 5px;"><span style="border: 1px solid black; padding: 2px;">Right side</span> <input style="width: 100%; height: 20px;" type="text"/></div> |   |

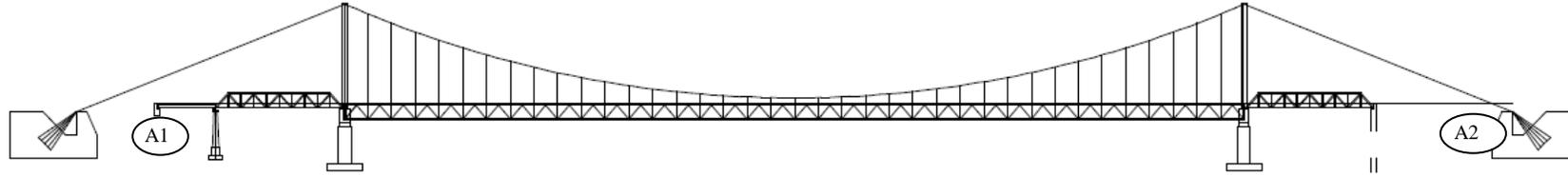
## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |                |   |
|--|--|----------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |                |  |
| <p>37 LB-L</p>   |  | <p>37 LB-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |
| <p>37 LT-L</p>   |  | <p>37 LT-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |

## Sketch of Bridge Condition Inspection Magapit Bridge

|  |  |                |   |
|--|--|----------------|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">Bottom of<br/>Suspension Bridge</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">S3</div> |  |                |  |
| <p>38 LB-L</p>   |  | <p>38 LB-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |
| <p>38 LT-L</p>   |  | <p>38 LT-R</p> |   |
| Up side  |  | Up side        |   |
| Bottom side  |  | Bottom side    |   |
| Left side  |  | Left side      |   |
| Right side   |  | Right side     |   |

# Sketch of Bridge Condition Inspection Magapit Bridge



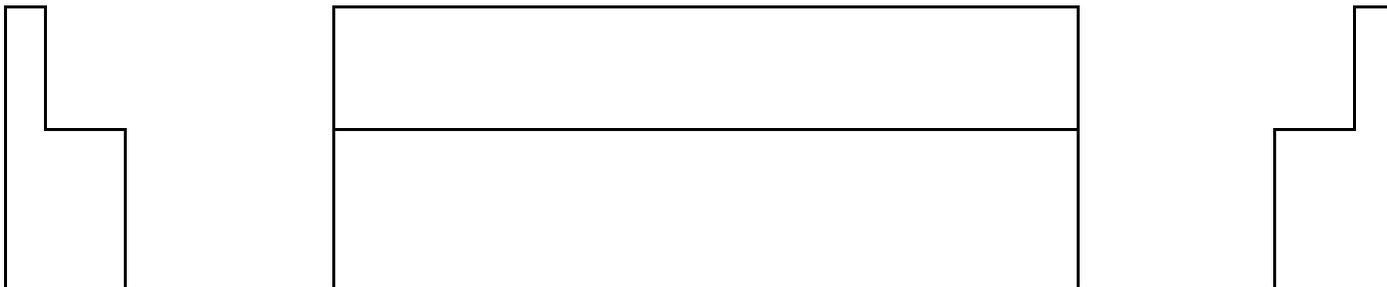
Abutment

Abutment and Pier: Rebar Exposure, Settlement and Water leakage

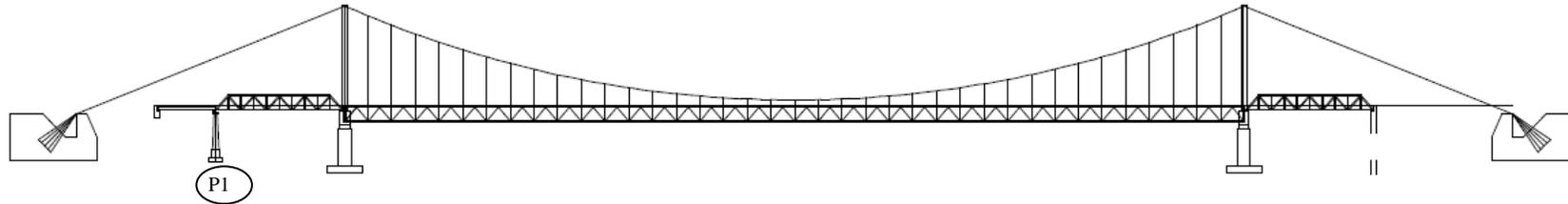
A1



A2



# Sketch of Bridge Condition Inspection Magapit Bridge

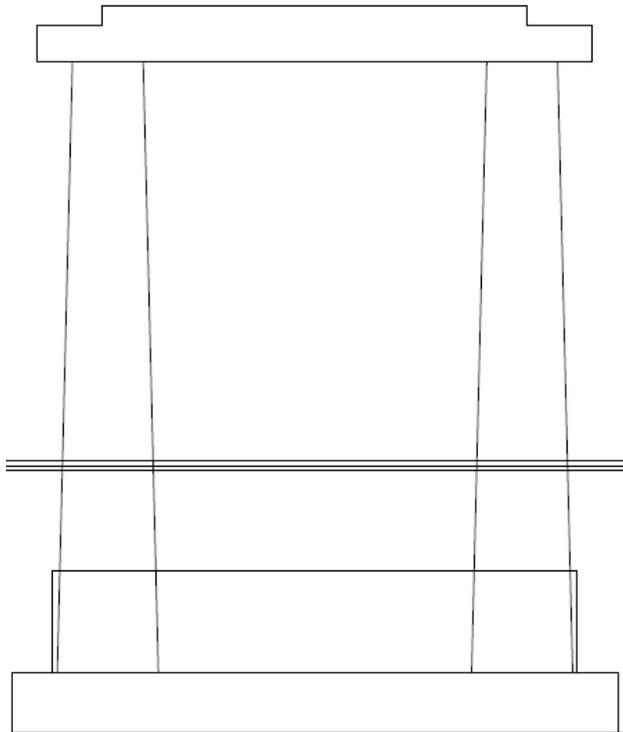


Abutment

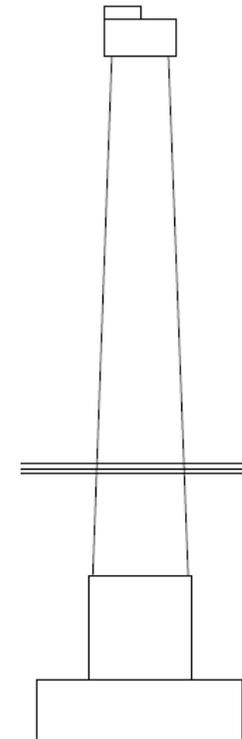
Abutment and Pier: Rebar Exposure, Settlement and Water Leakage

P1

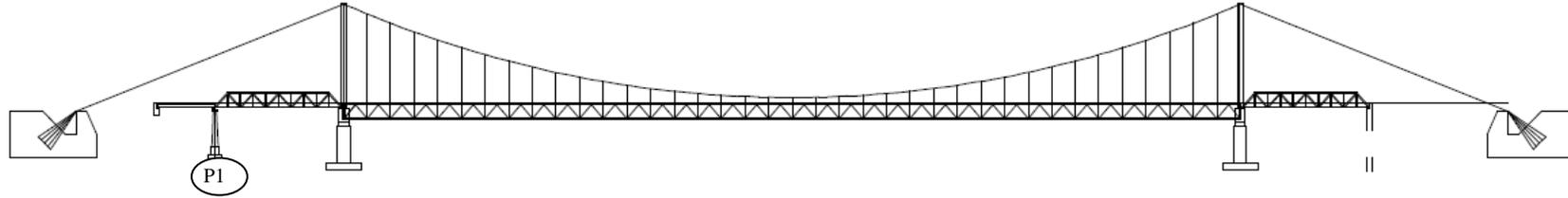
A1 side



Left side



# Sketch of Bridge Condition Inspection Magapit Bridge

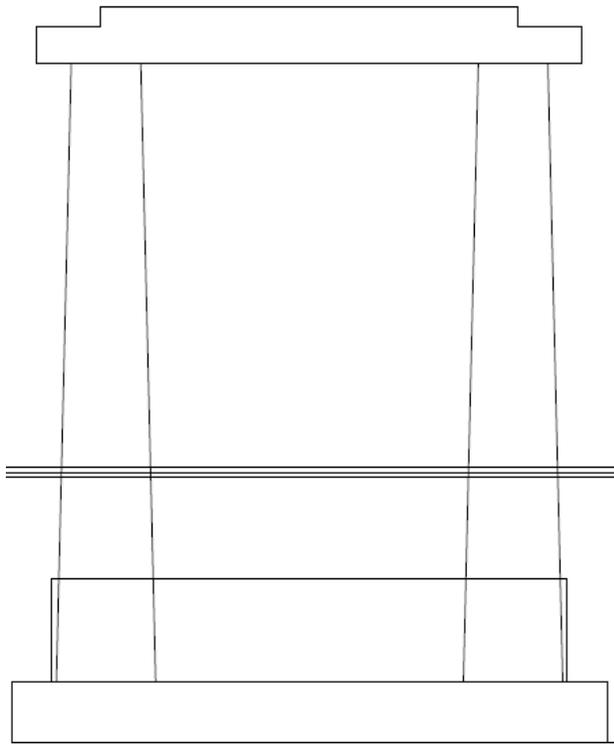


Abutment

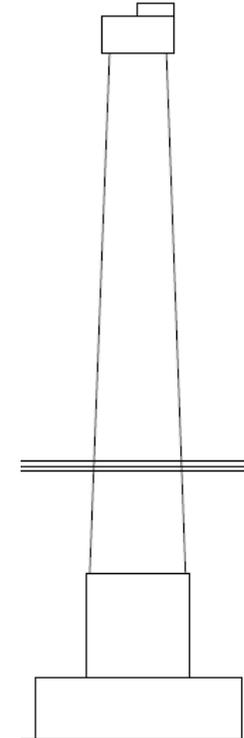
Abutment and Pier: Rebar Exposure, Settlement and Water Leakage

P1

A2 side



Right side



# Sketch of Bridge Condition Inspection Magapit Bridge

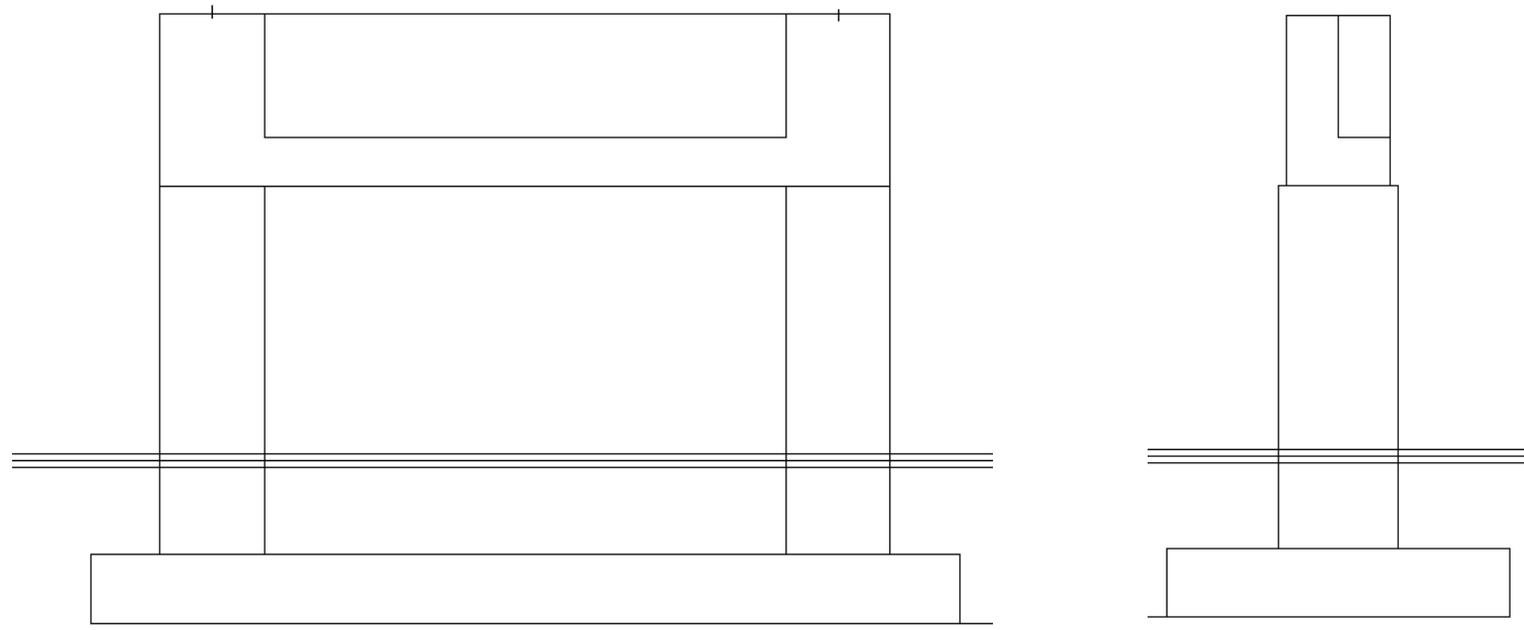


**Abutment** Abutment and Pier: Rebar Exposure, Settlement and Water Leakage

**P2**

A1 side

Right side



# Sketch of Bridge Condition Inspection Magapit Bridge

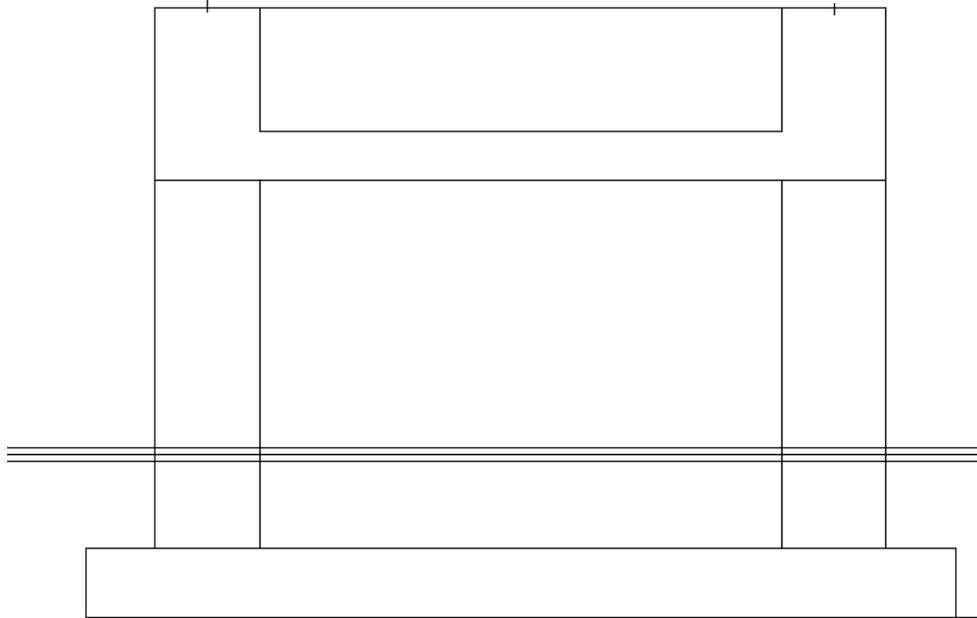


Abutment

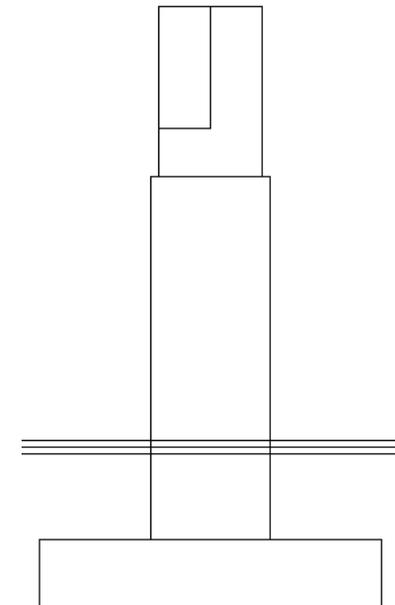
Abutment and Pier: Rebar Exposure, Settlement and Water Leakage

P2

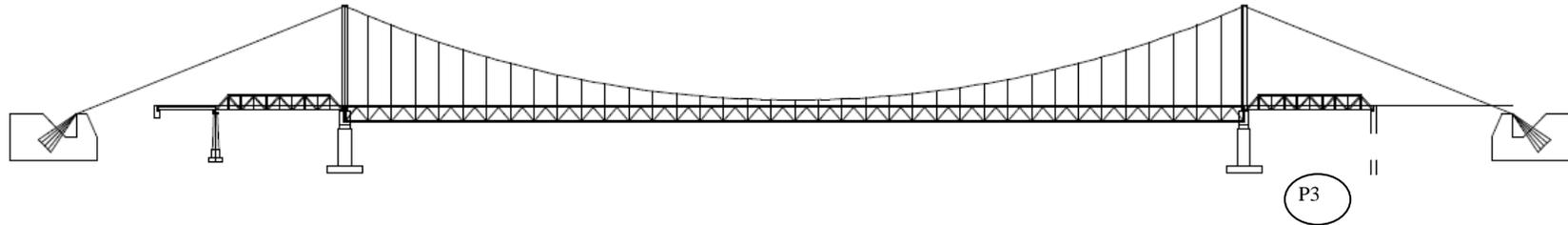
A2 side



Left side



# Sketch of Bridge Condition Inspection Magapit Bridge

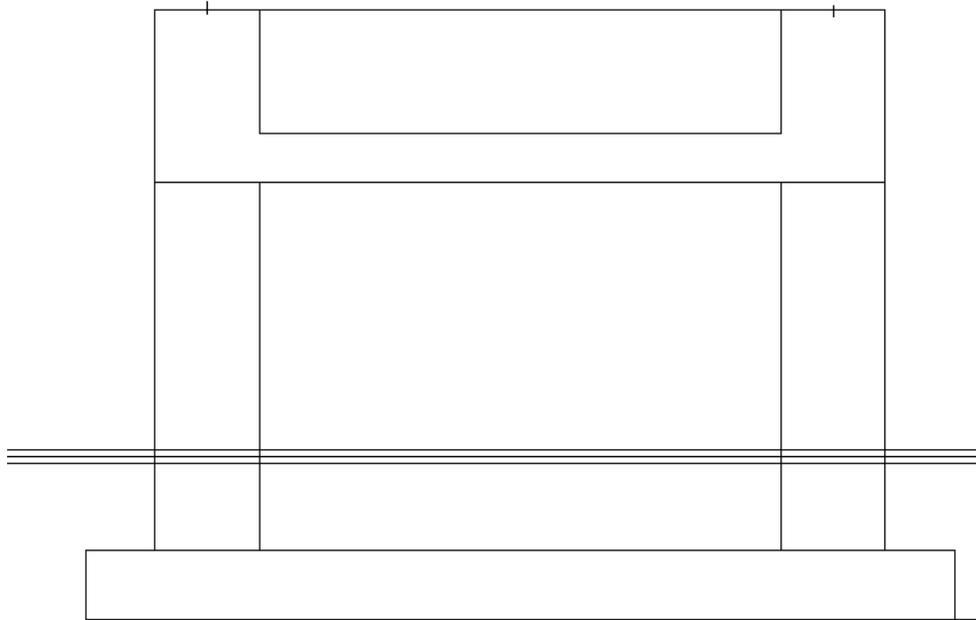


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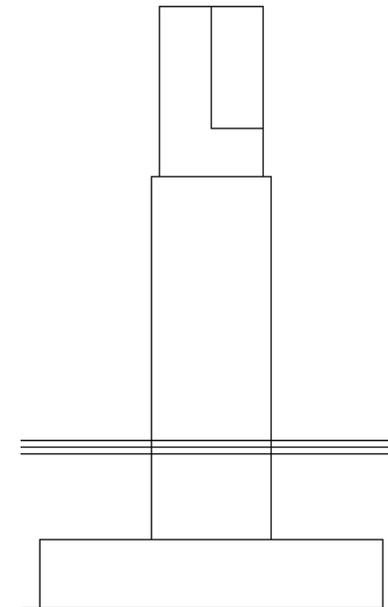
Abutment and Pier: Rebar Exposure, Settlement and Water Leakage

P3

A1 side



Right side



# Sketch of Bridge Condition Inspection Magapit Bridge

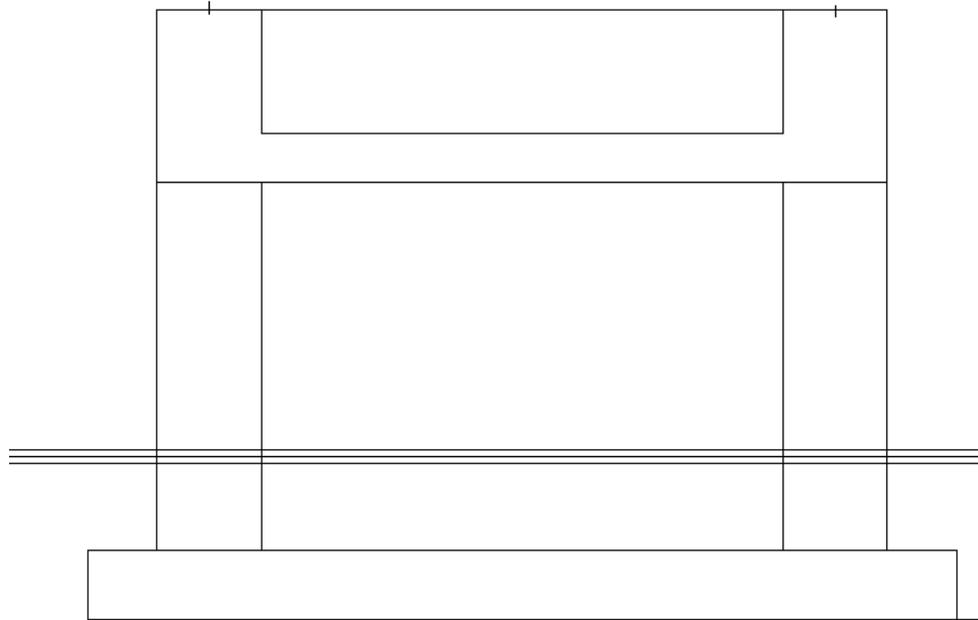


Abutment

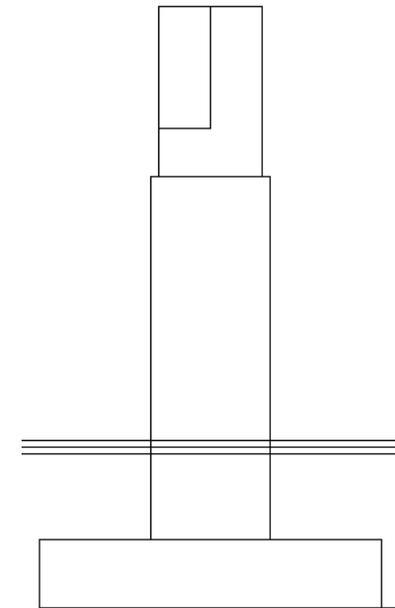
Abutment and Pier: Rebar Exposure, Settlement and Water Leakage

P3

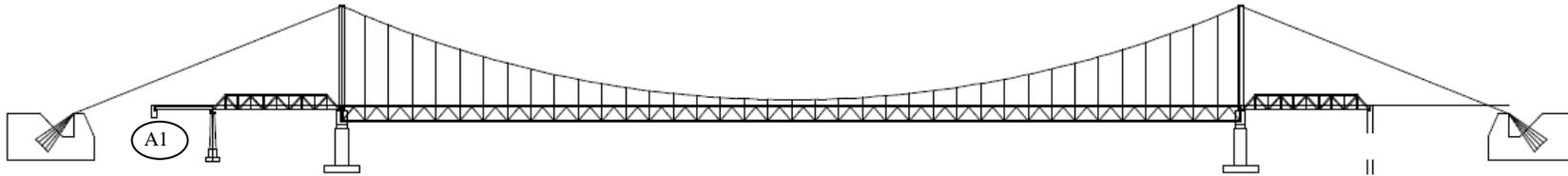
A2 side



Left side



# Sketch of Bridge Condition Inspection Magapit Bridge



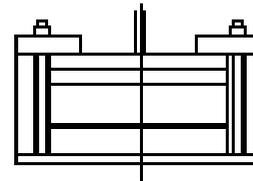
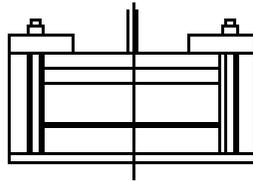
**Bearing** Bearing: Abnormal Condition, Dirt Accumulation

**Approach (A1)**

**Left**

A1 side

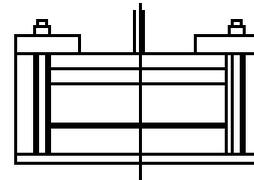
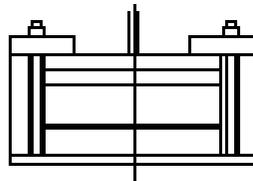
A2 side



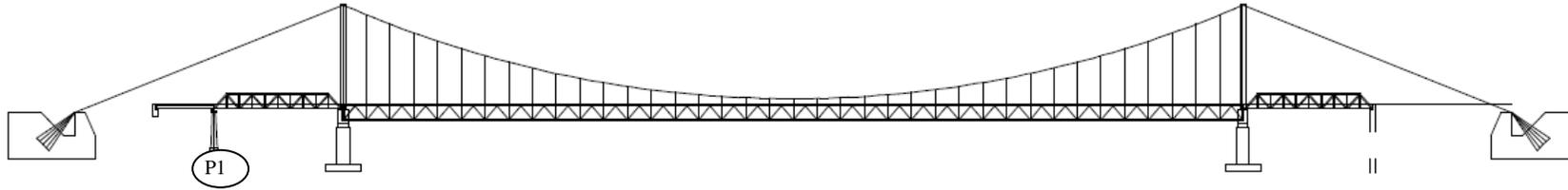
**Right**

A1 side

A2 side



# Sketch of Bridge Condition Inspection Magapit Bridge



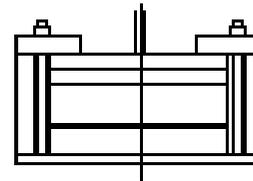
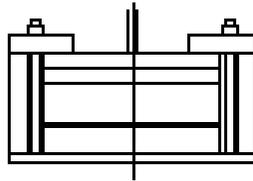
**Bearing** Bearing: Abnormal Condition, Dirt Accumulation

**Approach (P1)**

**Left**

A1 side

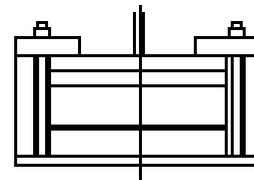
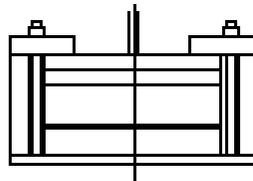
A2 side



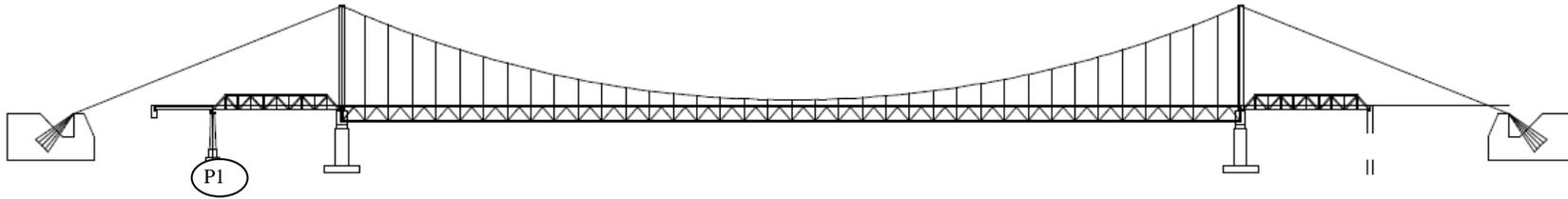
**Right**

A1 side

A2 side



## Sketch of Bridge Condition Inspection Magapit Bridge



**Bearing** Bearing: Abnormal Condition, Dirt Accumulation

**Pony (P1)**

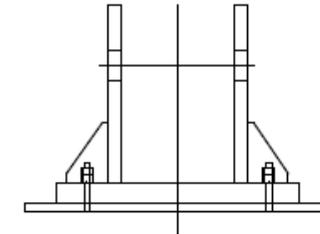
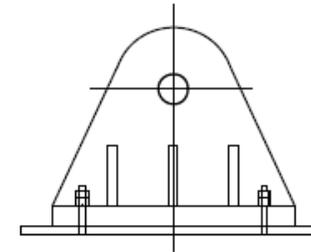
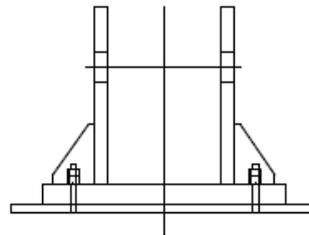
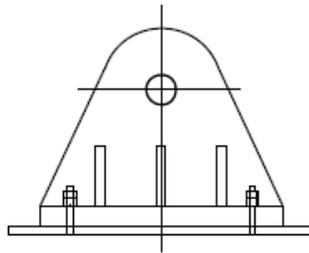
Left side

A1 side

Right side

A2 side

**Left**



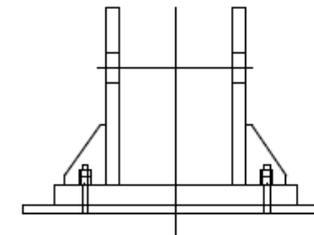
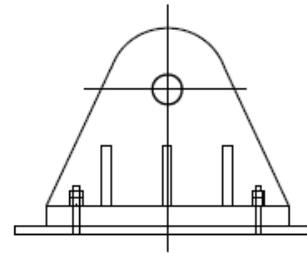
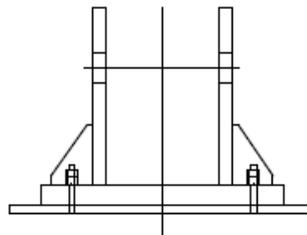
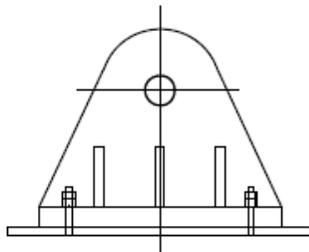
**Right**

Left side

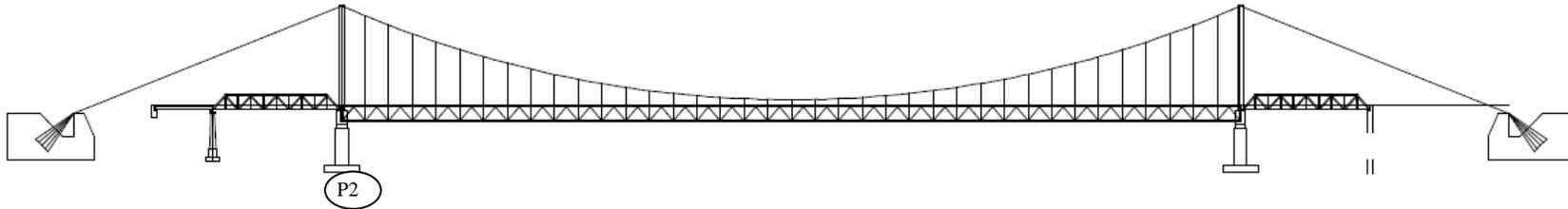
A1 side

Right side

A2 side



## Sketch of Bridge Condition Inspection Magapit Bridge



**Bearing** Bearing: Abnormal Condition, Dirt Accumulation

**Pony (P2)**

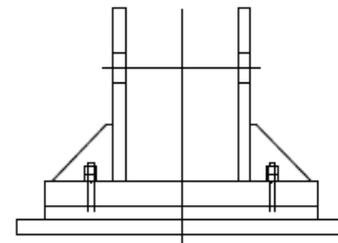
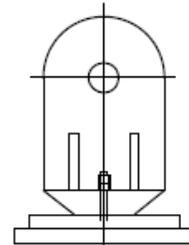
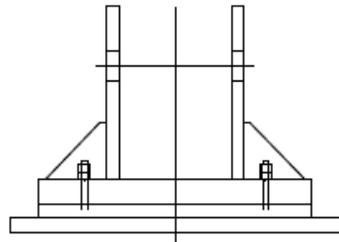
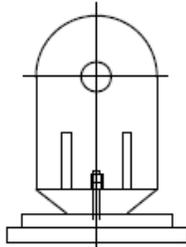
Left side

A1 side

Right side

A2 side

**Left**



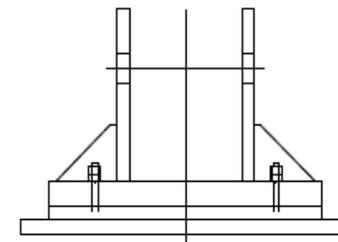
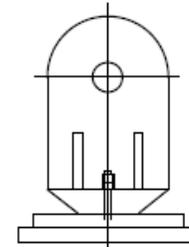
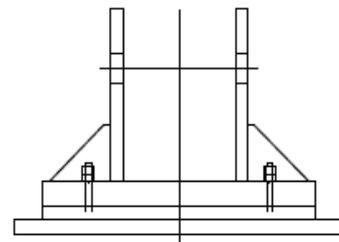
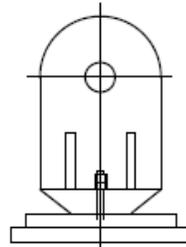
**Right**

Left side

A1 side

Right side

A2 side



## Sketch of Bridge Condition Inspection Magapit Bridge



**Bearing** Bearing: Abnormal Condition, Dirt Accumulation

**Suspension (P2)**

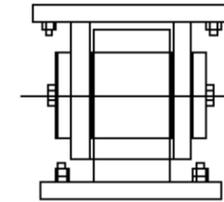
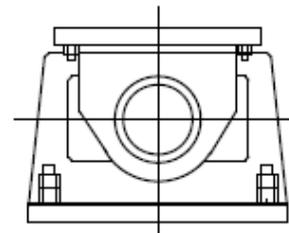
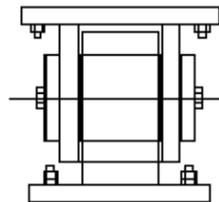
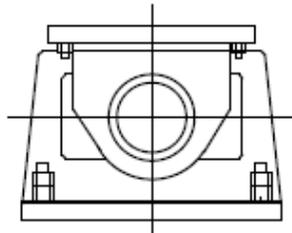
Left side

A1 side

Right side

A2 side

**Left**



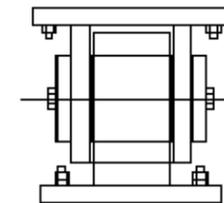
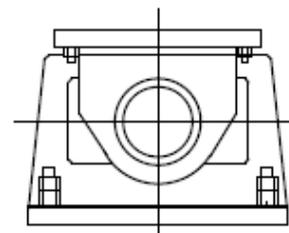
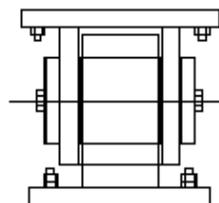
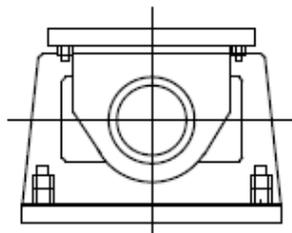
**Right**

Left side

A1 side

Right side

A2 side



## Sketch of Bridge Condition Inspection Magapit Bridge



**Bearing** Bearing: Abnormal Condition, Dirt Accumulation

**Suspension (P3)**

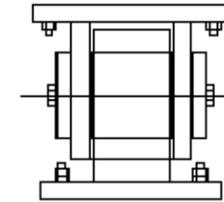
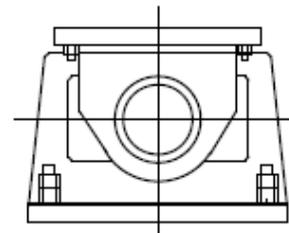
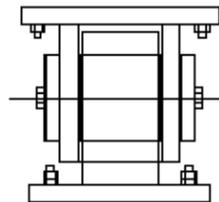
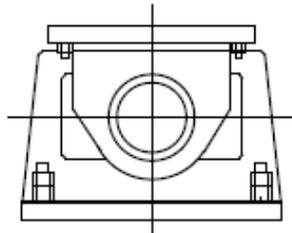
Left side

A1 side

Right side

A2 side

**Left**



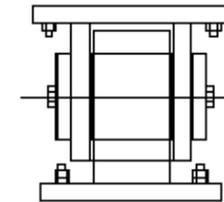
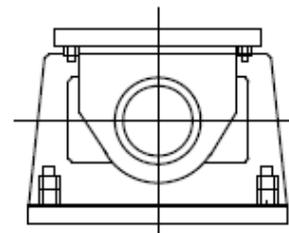
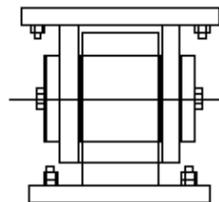
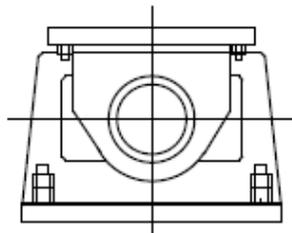
**Right**

Left side

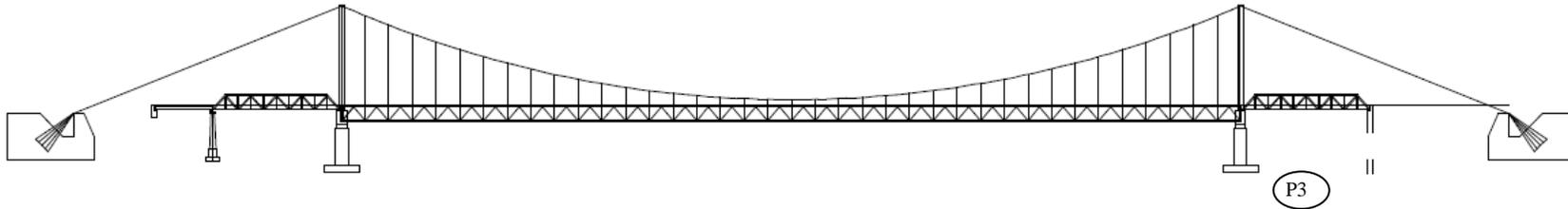
A1 side

Right side

A2 side



## Sketch of Bridge Condition Inspection Magapit Bridge



**Bearing** Bearing: Abnormal Condition, Dirt Accumulation

**Pony (P3)**

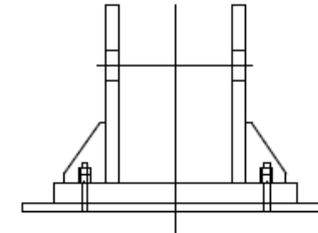
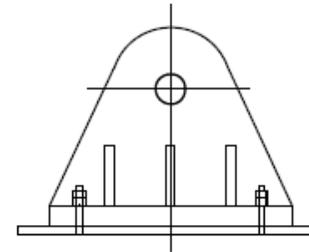
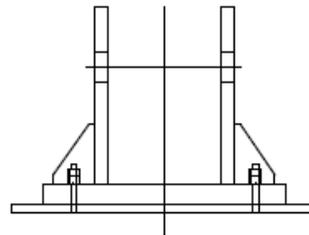
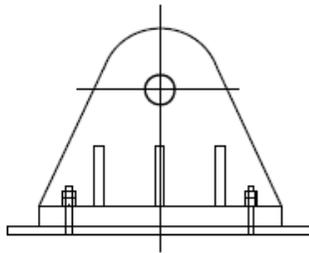
Left side

A1 side

Right side

A2 side

**Left**



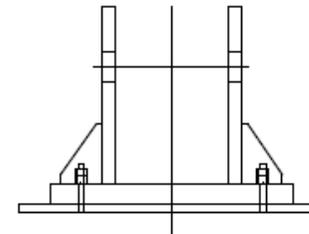
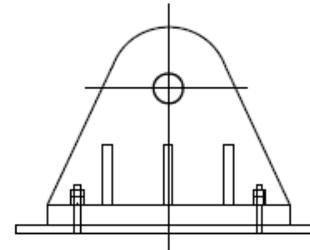
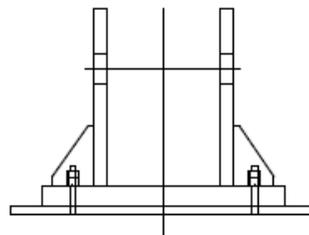
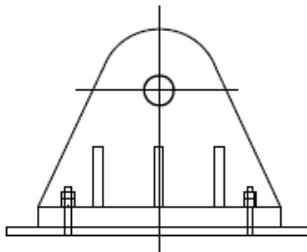
**Right**

Left side

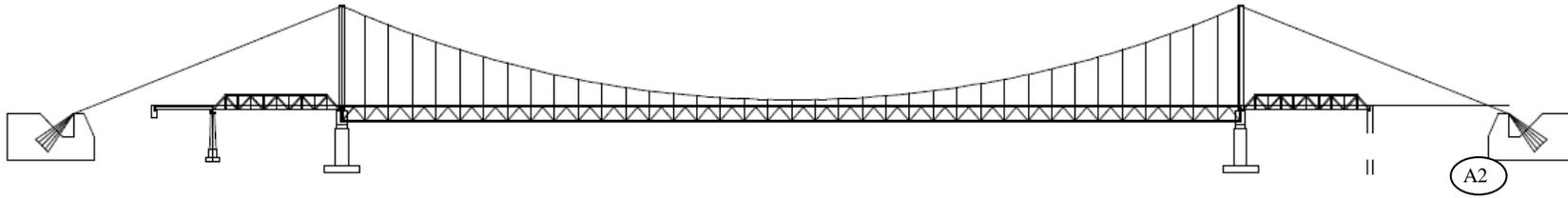
A1 side

Right side

A2 side



## Sketch of Bridge Condition Inspection Magapit Bridge



**Bearing** Bearing: Abnormal Condition, Dirt Accumulation

**Pony (A2)**

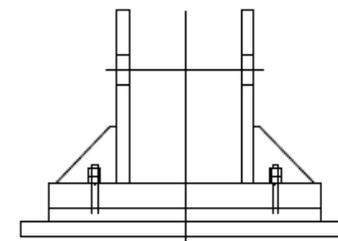
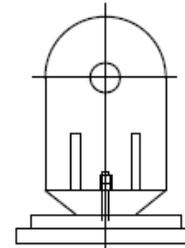
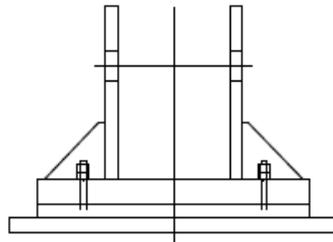
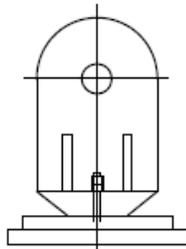
Left side

A1 side

Right side

A2 side

**Left**



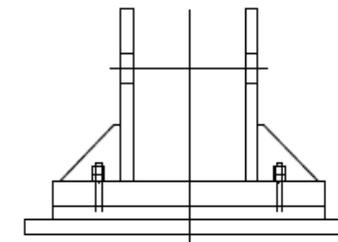
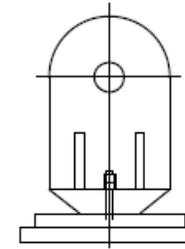
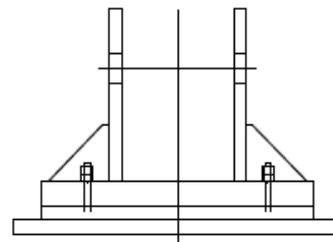
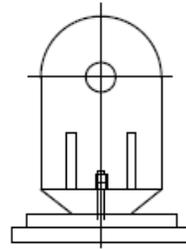
**Right**

Left side

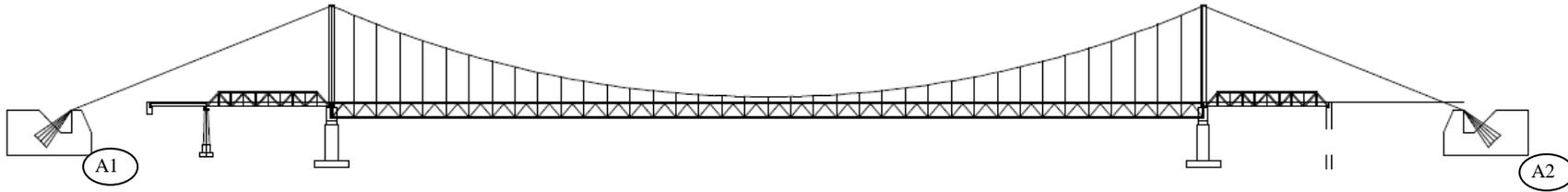
A1 side

Right side

A2 side



## Sketch of Bridge Condition Inspection Magapit Bridge



**Anchor Bolt** Anchor bolt: Abnormal Condition, Alignment/Deformation, Corrosion, Paint Peel-off

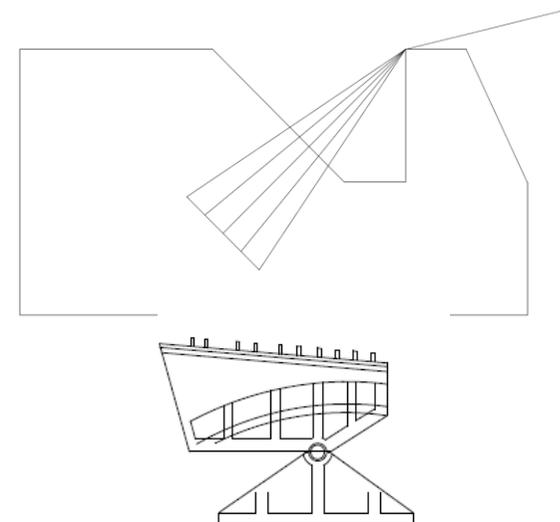
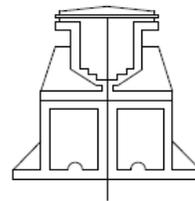
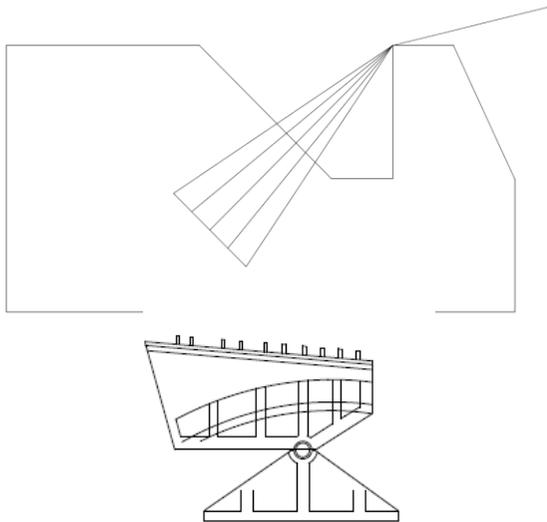
**Anchorage** Anchorage: Water and Dirt Accumulation, Abnormal Condition, Rebar Exposure

A1, A2 side

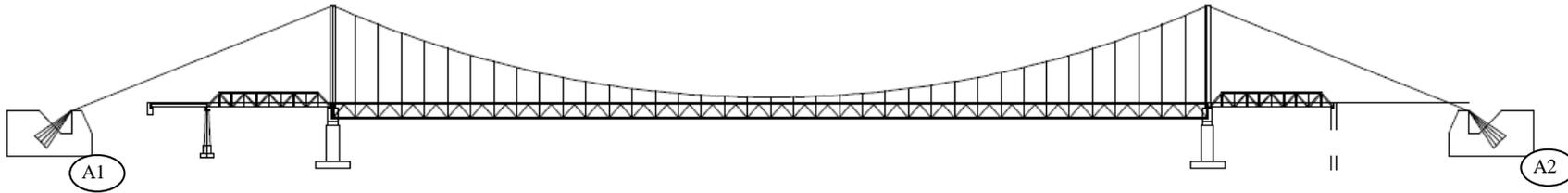
Left, Right

Right side

Left side



## Sketch of Bridge Condition Inspection Magapit Bridge

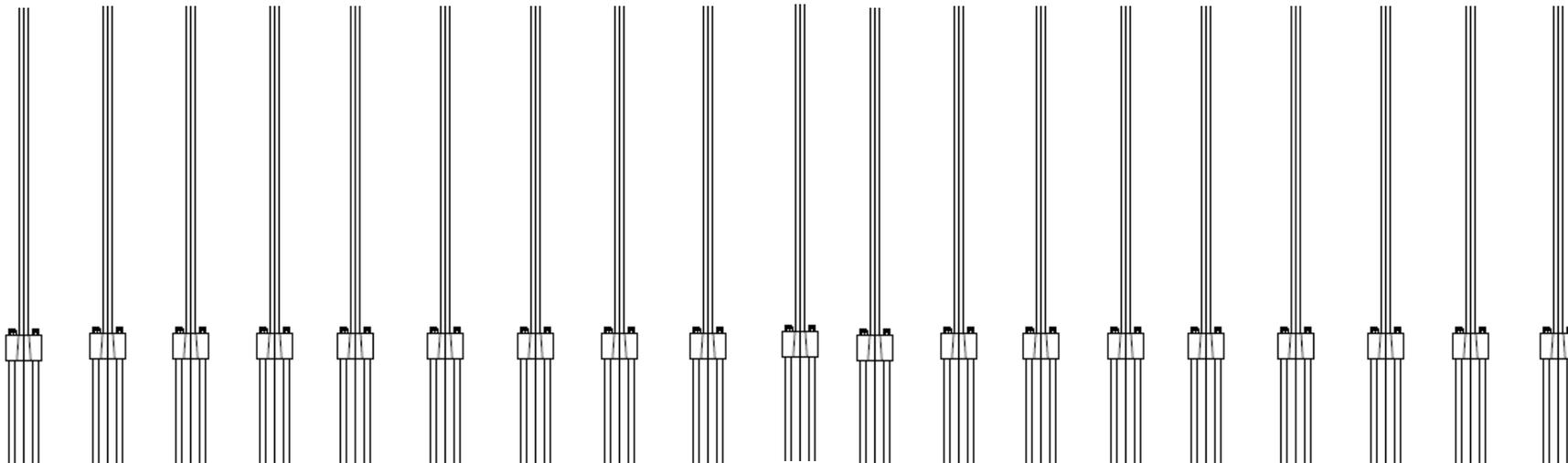


**Anchor Bolt** Anchor bolt: Abnormal Condition, Alignment/Deformation, Corrosion, Paint Peel-off

**Anchorage** Anchorage: Water and Dirt Accumulation, Abnormal Condition, Rebar Exposure

A1, A2 side

Left, Right





## **APPENDIX G**

# **ADDITIONAL MATERIAL DEFECTS ON SPECIAL BRIDGE**





## 1. GENERAL

This appendix describes the defects that are normally found in Asphalt Wearing Surface and Cable attributes such as Anchorage at Tower, Cable, Damper and Anchorage outside/inside of the Girder.

Each defect is described and the causes producing it are identified.

## 2. ASPHALT WEARING SURFACE

The asphalt wearing surface is the surface on which vehicle traffic and pedestrian travel. Magapit Bridge adopts 40 mm thickness Dense Graded Bituminous Concrete Asphalt. Asphalt wearing surface plays an important role to protect the deck slab.

Defects on asphalt wearing surface are often due to poor composition of asphalt, lack of quality control, improper application procedure, and/or destructive/harsh environment.

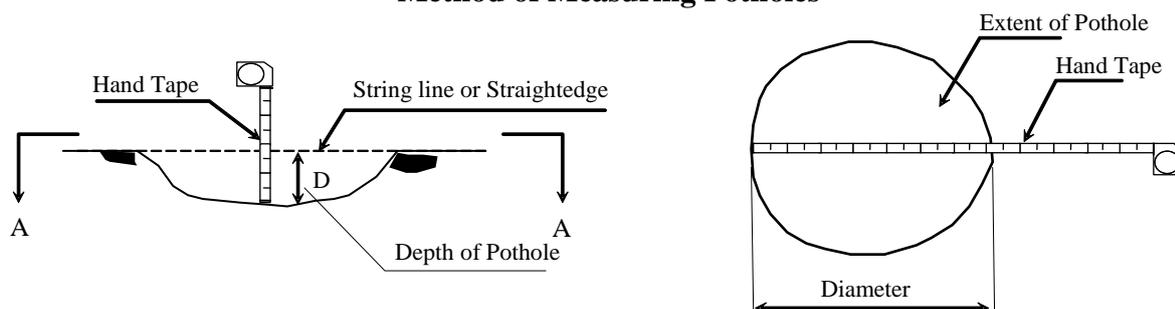
The following defects commonly found on Asphalt Wearing Surface are as follows:

- Potholes
- Shoving
- Rutting
- Cracking
- Raveling

### 2.1. Potholes

Potholes are bowl-shaped holes in the pavement caused by the penetration of water through the pavement due to heavy rains and breaking up of the pavement due to subsequent traffic action. Pavements already deteriorated with defects such as alligator cracking and raveling are prone to the occurrence of potholes.

**Figure G-1**  
**Method of Measuring Potholes**

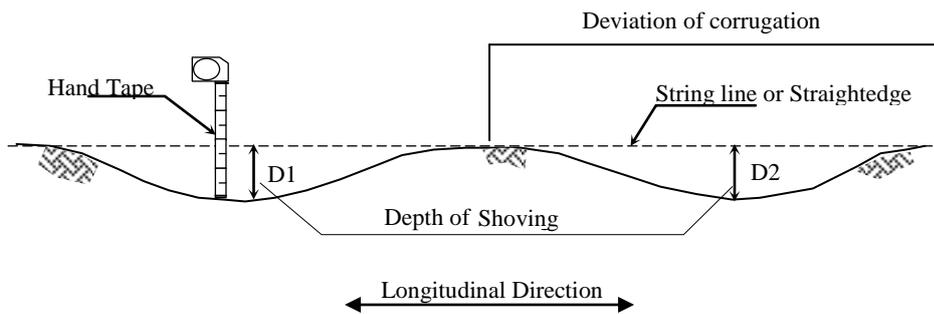




## 2.2. Shoving

Shoving is defined as the unevenness of the roughness on the carriageway surface along the longitudinal direction of the road. This deformation, as it progresses, will lead to an increasingly severe impact loading under traffic, particularly at joints. It is usually the result of the combined effects of traffic and warm weather. Blisters are formed in the surface during warm weather while traffic normally prevents them from rising.

**Figure G-2**  
**Measurement of Waving Depth and Corrugation**

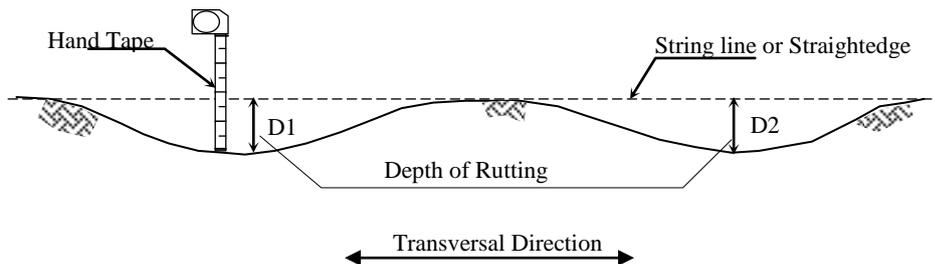


## 2.3. Rutting

Rutting is defined as the unevenness on the carriageway surface in the transverse direction of the road. This deformation is caused by continuous heavy wheel loads passing along the carriageway in the longitudinal direction.

Rutting progresses rapidly in warm weather and does indicate failure of the surfacing materials. The main effect is that it prevents water to drain from the carriageway and in some severe cases, prevent vehicles from leaving the rut affected depressed areas, causing a temporary loss of control on the vehicle. In some instances, the combined effect with rain makes braking extremely difficult with a strong possibility of the vehicle aquaplaning.

**Figure G-3**  
**Measurement of Rutting Depth**





#### **2.4. Cracking**

A crack is a linear fracture extending partially or completely through the pavement. Cracking in pavements may be caused by any or a combination of the following factors: the action of vehicular wheel loading, poor quality of material, compaction, placement and drainage. It also includes temperature susceptibility of the asphalt cement binder and reflection cracks, due to the extension of cracks on the surface below the pavement.

Cracks are distinguished by its appearance and direction. The following types of cracks are commonly observed on the pavement surface:

- Longitudinal
- Transverse
- Alligator

Longitudinal cracks are roughly parallel to the direction of the traffic and may be situated at or near the center of the wheel tracks, centerline of roadway, mid-lane or along pavement edges.

Transverse cracks are approximately at to the pavement centerline and may extend partially or completely across the pavement.

Alligator cracks form a network of multi-sided polygons or blocks resembling the skin of an alligator. The block sizes typically range from 50mm to 500mm. They may occur anywhere in the pavement surface and may be accompanied by depressions in the surface. For this type of crack, the Condition Rating such as the severity of defect and condition state will be determined only by measuring its area.

#### **2.5. Raveling**

Raveling is one of the abrasions of Bituminous Pavements. It is defined as the loss of the wearing surface exposing the aggregates. Rough surface is caused by the segregation of course aggregates from the mixture.

### **3. CABLE ELEMENTS**

Attributes of Cable are:

- Main cable
- Hanger rope
- Tower and splay saddle
- Cable band
- Anchor bolt

The above-listed attributes are used in structures for suspension of the girder.



The following defects are commonly observed in cable attributes:

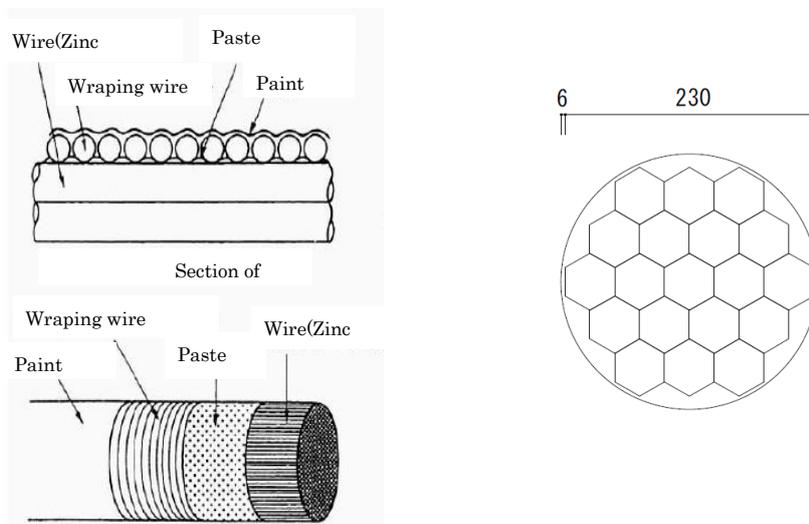
**Main Cable and Hanger Rope** : Abnormal Vibration, Alignment deformation, Cracking, Water leakage, Corrosion and Delamination

**Steel Attributes** : Corrosion, Missing Bolts, Deformation, Cracking and Water leakage

### 3.1 Main Cable and Hanger Rope

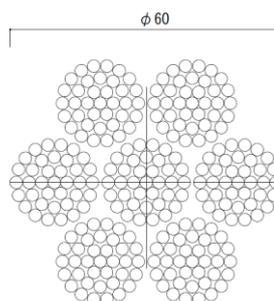
Parallel wire strand system is adopted in a main cable of Magapit Bridge. Wires are covered by past, wrapping wire and paint for the protection against corrosion. Figure G-4 shows the details of main cable used in Magapit Bridge.

**Figure G-4  
Main Cable in Magapit Bridge**



Independent wire strand core system is adopted in a hanger rope of Magapit Bridge. Wires are covered by paint for the protection against corrosion. Figure G-5 shows the details of main cable used in Magapit Bridge.

**Figure G-5  
Hanger Rope in Magapit Bridge**





Cable and rope is the primary structural component of a Suspension Bridge. It is very important to check whether the above-listed defects are present in comparison with the adjacent cable by visual inspection, sensory or engineering judgment.

Abnormal vibration and alignment deformation of cable and rope are caused by the combination of conditions of material, construction method, environmental aspects, structural characteristic and concentrated external force. The resonance is a serious problem though it hardly occurs at the same time because of the small difference in length of each cable.

Cracks and peel off on the surface of cable and rope should be located and checked. When there is water leakage, there is a possibility of corrosion and section loss of cable and rope. Water leakage from the connection with anchorage (anchor bolt) and cable is dangerous defect. Water proof sealing and rubber cover should be inspected carefully.

Water leakage at the anchor bolt and cable has a dangerous effect, therefore when these defects are observed, it must be referred to an expert of a specialized investigation company immediately so that an appropriate inspection can be undertaken.

As for defects of anchor bolt, refer to “Appendix A, Material Defects, Section 3- STEEL” for standard bridges of the BMS Manual.

### **3.2 Steel Attributes**

The steel element around anchorage and tower is very important to sustain bridge and these members are stressed with heavy load from cable and rope. The tower and anchorage is supporting every dead and live load through the cable and rope. Excessive stress from cable hanger rope will cause the bridge to collapse. Cracking and buckling should be inspected carefully.

As for defects of steel attribute, refer to “Appendix A, Material Defects, Section 3- STEEL” for standard bridges of the BMS Manual.



## **APPENDIX H**

# **CONDITION RATING CRITERIA ON SPECIAL BRIDGE**



Department of Public Works and Highways  
**BRIDGE MANAGEMENT SYSTEM**  
**BRIDGE CONDITION RATING CRITERIA**

| BRIDGE ELEMENT |             | SPAN   |                    | BRIDGE ATTRIBUTE   |           | ASPHALT WEARING SURFACE |  |
|----------------|-------------|--|--------------------|--|-----------|-------------------------|--|
| MATERIAL TYPE  | COND. STATE | GENERAL CONDITION  | SEVERITY OF DEFECT |  |           |                         |  |
|                |             |  | TYPE OF DAMAGE     |  | CONDITION |                         |  |
| Asphalt        | 0 - Good    | The pavement is generally in good condition.   | 1 Potholes         | Slight and shallow potholes or no damage                           |           |                         |  |
|                |             |  | 2 Shoving          | < 10mm in depth or no damage/defects                               |           |                         |  |
|                |             |  | 3 Rutting          | < 10mm in depth or no damage/defects                               |           |                         |  |
|                |             |  | 4 Cracking         | If alligator cracks area measuring <= 5% or no crack               |           |                         |  |
|                |             |  | 5 Raveling         | < 10mm in depth or no damage/defects                               |           |                         |  |
|                | 1 - Fair    | Minor damage in area, depth and numbers of potholes, unevenness, rutting and cracking which reduces the pavement function and durability.                                      | 1 Potholes         | Holes measuring < 200mm in any direction or 10mm - 30mm in depth   |           |                         |  |
|                |             |  | 2 Shoving          | 10mm - 20mm in depth and corrugation < 30mm in deviation           |           |                         |  |
|                |             |  | 3 Rutting          | 10mm - 20mm in depth   |           |                         |  |
|                |             |  | 4 Cracking         | If alligator cracks area measuring > 5% to < 10%                   |           |                         |  |
|                |             |  | 5 Raveling         | 10mm - 20mm in depth   |           |                         |  |
|                | 2 - Poor    | Severe damage in area, depth and numbers of potholes, unevenness, rutting and cracking which causes hindrance for smooth traffic, pavement function and durability.            | 1 Potholes         | Holes measuring 200mm-400mm in any direction or 30mm-50mm in depth |           |                         |  |
|                |             |  | 2 Shoving          | 20mm - 30mm in depth and corrugation > 30mm in deviation           |           |                         |  |
|                |             |  | 3 Rutting          | 20mm - 30mm in depth   |           |                         |  |
|                |             |  | 4 Cracking         | If alligator cracks area measuring > 10% to < 20%                  |           |                         |  |
|                |             |  | 5 Raveling         | 20mm - 30mm in depth   |           |                         |  |
|                | 3 - Bad     | Very severe damage in area, depth and numbers of potholes, unevenness, rutting and cracking which causes total hindrance for smooth traffic, pavement function and durability. | 1 Potholes         | Holes measuring > 400mm in any direction or > 50mm in depth        |           |                         |  |
|                |             |  | 2 Shoving          | > 30mm in depth  |           |                         |  |
|                |             |  | 3 Rutting          | > 30mm in depth  |           |                         |  |
|                |             |  | 4 Cracking         | If alligator cracks area measuring > 20%                           |           |                         |  |
|                |             |  | 5 Raveling         | > 30mm in depth  |           |                         |  |

Department of Public Works and Highways  
**BRIDGE MANAGEMENT SYSTEM**  
**BRIDGE CONDITION RATING CRITERIA**

| BRIDGE ELEMENT |                 | CABLE  | BRIDGE ATTRIBUTE       | MAIN / SECONDARY MEMBER (1/3)   |           |
|----------------|-----------------|--|------------------------|---|-----------|
| MATERIAL TYPE  | COND. STATE     | GENERAL CONDITION  | SEVERITY OF DEFECT     |   |           |
|                |                 |  | TYPE OF DAMAGE         |   | CONDITION |
| <b>Saddle</b>  | <b>0 - Good</b> | Paint system is generally sound with only minor chalking, peeling or curling, but with no exposure of metal. All welds or bolts are in good condition with no movement of plates or sections in the element. No water leakage. | 1 Corrosion            | Loose rust formation and pitting in the paint surface, no section loss    |           |
|                |                 |  | 2 Missing bolts        | No bolts missing  |           |
|                |                 |  | 3 Deformation/Buckling | No deformation on bridge components                                       |           |
|                |                 |  | 4 Water leakage        | Not Detected  |           |
|                | <b>1 - Fair</b> | Spot rusting of the paint system is occurring and the paint system is no longer effective. No corrosion of the section has occurred, welds and bolts in good condition. No water leakage.                                      | 1 Corrosion            | Loose rust formation with scales/flakes, <= 10% section loss              |           |
|                |                 |  | 2 Missing bolts        | Falling out of bolts in > 1 piece   |           |
|                |                 |  | 3 Deformation/Buckling | Partial deformation on secondary members only                             |           |
|                |                 |  | 4 Water leakage        | Not Detected  |           |
|                | <b>2 - Poor</b> | Presence of some surface pitting with active corrosion in isolated areas but no loss of section area. Paint system completely broken. Nuts & bolts corroded but still tight, no cracks on welds. No water leakage.             | 1 Corrosion            | Stratified rust with pitting of metal surface, >10% to <=20% section loss |           |
|                |                 |  | 2 Missing bolts        | Falling out of bolts in > 2 pieces  |           |
|                |                 |  | 3 Deformation/Buckling | Partial deformation on primary members                                    |           |
|                |                 |  | 4 Water leakage        | Not Detected  |           |
|                | <b>3 - Bad</b>  | Advanced corrosion, loss of section, cracking on welds between plates, nuts & bolts severely corroded. Water leakage occurred.   | 1 Corrosion            | Extensive rusting w/ local perforation/rusting through > 20% section loss |           |
|                |                 |  | 2 Missing bolts        | Falling out of bolts in > 3 pieces  |           |
|                |                 |  | 3 Deformation/Buckling | Outstanding deformation due to buckling or partial yielding               |           |
|                |                 |  | 4 Water leakage        | Detected  |           |

Department of Public Works and Highways  
**BRIDGE MANAGEMENT SYSTEM**  
**BRIDGE CONDITION RATING CRITERIA**

| BRIDGE ELEMENT |             | CABLE   |                    |                       | BRIDGE ATTRIBUTE  |  | MAIN / SECONDARY MEMBER (2/3) |  |  |
|----------------|-------------|---|--------------------|-----------------------|---|--|-------------------------------|--|--|
| MATERIAL TYPE  | COND. STATE | GENERAL CONDITION   | SEVERITY OF DEFECT |                       |   |  |                               |  |  |
|                |             |   | TYPE OF DAMAGE     |                       | CONDITION   |  |                               |  |  |
| Cable and Rope | 0 - Good    | Abnormal continuous vibration of stay cable and abnormal alignment/deformation of cover duct are not detected. No crack and delamination on covering of cable. No water leakage in the connection with anchorage parts  | 1                  | Vibration             | Not detected  |  |                               |  |  |
|                |             |   | 2                  | Alignment/Deformation | Not Detected  |  |                               |  |  |
|                |             |   | 3                  | Crack                 | Not Detected  |  |                               |  |  |
|                |             |   | 4                  | Delamination/Scaling  | Not Detected  |  |                               |  |  |
|                |             |   | 5                  | Water leakage         | Not Detected  |  |                               |  |  |
|                | 2 - Poor    | Abnormal continuous vibration of stay cable and abnormal alignment/deformation of cover duct are not detected. Crack and delamination on covering of cable is detected. No water leakage in the connection with anchorage parts   | 1                  | Vibration             | Not detected  |  |                               |  |  |
|                |             |   | 2                  | Alignment/Deformation | Not Detected  |  |                               |  |  |
|                |             |   | 3                  | Crack                 | Detected crack, but no exposed wire and no corrosion  |  |                               |  |  |
|                |             |   | 4                  | Delamination/Scaling  | Detected delamination of covering, but no exposed wire and no corrosion   |  |                               |  |  |
|                |             |   | 5                  | Water leakage         | Not Detected  |  |                               |  |  |
|                | 3 - Bad     | Abnormal continuous vibration of stay cable caused by heavy loads or excessive vibration due to wind in comparison with adjacent cables and abnormal alignment/deformation of cover duct are detected. Crack and delamination on covering of cable is detected and wire is exposed. Water leakage in the connection with anchorage parts is detected. | 1                  | Vibration             | Detected the excessive or abnormal vibration of stay cable during the passage of heavy loads or excessive vibration caused by wind in comparison with adjacent cables by visual inspection or touch or engineering judgment |  |                               |  |  |
|                |             |   | 2                  | Alignment/Deformation | Detected the apprent difference in the sag of the cable   |  |                               |  |  |
|                |             |   | 3                  | Crack                 | Detected Crack and wire exposure, corrosion   |  |                               |  |  |
|                |             |   | 4                  | Delamination/Scaling  | Detected delamination of covering and wire exposure, corrosion  |  |                               |  |  |
|                |             |   | 5                  | Water leakage         | Detected in the connection with anchorage parts   |  |                               |  |  |

Department of Public Works and Highways  
**BRIDGE MANAGEMENT SYSTEM**  
**BRIDGE CONDITION RATING CRITERIA**

| BRIDGE ELEMENT                  |   | Anchor block around anchor bolt  | BRIDGE ATTRIBUTE  | MAIN / SECONDARY MEMBER (3/3)   |
|---------------------------------|---|--|---|---|
| MATERIAL TYPE                   | COND. STATE   | GENERAL CONDITION  | TYPE OF DAMAGE  | SEVERITY OF DEFECT CONDITION  |
| Anchor block around anchor bolt | 0 - Good  | There maybe minor cracking of the girder due to corroding reinforcement or a lack of distribution reinforcement, but there should be no structural cracking or spalling. Minor discoloration of efflorescence powder maybe visible in few locations. | 1 Cracking  | Hairline crack or no crack  |
|                                 |   |  | 2 Spalling<br>Scaling<br>Disintegration                                     | Affected area is <= 150mm wide in any direction, or depth is less than 25mm           |
|                                 |   |  | 3 Delamination  | Delaminated area measuring <=150mm in any direction                                   |
|                                 |   |  | 4 Rebar exposure/corrosion  | No damage   |
|                                 |   |  | 5 Honeycomb   | Affected area is <= 150mm wide in any direction                                       |
|                                 |   |  | 6 Water Leakage   | Not visible   |
|                                 | 1 - Fair  | There maybe a few minor cracks or spalls due to corroding reinforcement in some locations but there should be no exposure of the stressing ducts. Some minor discoloration or white efflorescence powder maybe visible in few locations.             | 1 Cracking  | <= 0.3mm, spacing > 500mm   |
|                                 |   |  | 2 Spalling<br>Scaling<br>Disintegration                                     | Affected area is > 150mm to <= 300mm wide in any direction. or depth is 25mm to 50mm  |
|                                 |   |  | 3 Delamination  | Delaminated area measuring >150mm to <= 300mm in any direction                        |
|                                 |   |  | 4 Rebar exposure/corrosion  | Main rebar exposed is <= 50 mm <sup>2</sup> wide, corroded or flaking only            |
|                                 |   |  | 5 Honeycomb   | Affected area is > 150mm to <= 300mm wide in any direction                            |
|                                 |   |  | 6 Water Leakage   | Water leak in 1 spot has an area of <= 20cm wide                                      |
|                                 | 2 - Poor  | There maybe some scaling or spalling in isolated locations with stressing ducts exposed but with little or no corrosion occurring. Corrosion on some exposed reinforcement.  | 1 Cracking  | > 0.3mm to <= 1.0mm, spacing is <500mm to >= 200mm                                    |
|                                 |   |  | 2 Spalling<br>Scaling<br>Disintegration                                     | Affected area is > 300mm to <= 600mm wide in any direction, or depth is 50mm to 100mm |
|                                 |   |  | 3 Delamination  | Delaminated area measuring >300mm to <= 600mm in any direction                        |
|                                 |   |  | 4 Rebar exposure/corrosion  | Main rebar exposed is >50cm <sup>2</sup> to <=100cm <sup>2</sup> wide, corroded       |
|                                 |   |  | 5 Honeycomb   | Affected area is >300mm to <= 600mm wide in any direction                             |
|                                 |   |  | 6 Water Leakage   | Water leak in 1 spot has an area of > 20cm to <= 50cm wide                            |
| 3 - Bad                         | Heavy cracking is present in large areas with heavy corrosion of reinforcement. | 1 Cracking   | > 1.0mm, spacing is < 200mm   |   |
|                                 |   | 2 Spalling<br>Scaling<br>Disintegration  | Affected area is > 600mm wide in any direction, or depth is more than 100mm |   |
|                                 |   | 3 Delamination   | Delaminated area measuring > 600mm in any direction                         |   |
|                                 |   | 4 Rebar exposure/corrosion   | Main rebar exposed is > 100cm <sup>2</sup> wide and corroded                |   |
|                                 |   | 5 Honeycomb  | Affected area is >600mm wide in any direction                               |   |
|                                 |   | 6 Water Leakage  | Water leak in 1 spot has an area of > 50cm wide                             |   |

## **APPENDIX I**

# **INVENTORY INSPECTION FORM**





**Department of Public Works and Highways**

**INVENTORY INSPECTION FORM (TYPE 5)**

**LOCATION**

|                    |                                  |
|--------------------|----------------------------------|
| <b>BRIDGE ID</b>   | <b>B01113LZ</b>                  |
| <b>Bridge Name</b> | <b>Magapit Suspension Bridge</b> |
| <b>Road Name</b>   | <b>Magapit Road</b>              |
| <b>Road ID</b>     | <b>R0264LZ</b>                   |
| <b>Section ID</b>  | <b>S00688LZ</b>                  |
| <b>Location</b>    | <b>K0714+1.272</b>               |

|                               |                               |
|-------------------------------|-------------------------------|
| <b>Region</b>                 | <b>II</b>                     |
| <b>Province</b>               | <b>Cagayan</b>                |
| <b>Congressional District</b> | <b>Cagayan 1<sup>st</sup></b> |
| <b>Engineering District</b>   | <b>Cagayan 1<sup>st</sup></b> |
| <b>Municipality</b>           | <b>Lal-lo</b>                 |
| <b>Barangay</b>               | <b>Magapit</b>                |
| <b>River Name</b>             | <b>Cagayan River</b>          |

|                                 |  |
|---------------------------------|--|
| <b>Date of Field Inspection</b> |  |
|---------------------------------|--|

**Total No. of Span:**

**Total No. of Abutment:**

**Total No. of Pier:**

|   |   |
|---|---|
| <b>Accomplished by:</b><br><br><b>Rhett Willem P. Varilla</b><br><b>Engineer II</b> | <b>Submitted by:</b><br><br><b>Ronalyn P. Ubiña</b><br><b>Engineer II</b> |
|---|---|

Insert Name, Position, Signature and Date of Signing  
Initial all other pages

**MBF – Inventory Inspection Form (Type 5)**

**Bridge ID**

**Bridge Name**

**INVENTORY**

**SPECIAL INSPECTION REQUIREMENTS**

|                                |                                     |
|--------------------------------|-------------------------------------|
| Boat                           | <input checked="" type="checkbox"/> |
| Bridge inspection vehicle      | <input checked="" type="checkbox"/> |
| Ladder                         | <input checked="" type="checkbox"/> |
| Binoculars                     | <input checked="" type="checkbox"/> |
| Other                          | <input type="checkbox"/>            |
| None                           | <input type="checkbox"/>            |
| Note any unusual requirements: |                                     |

Up to three (3) options may be selected.

**GENERAL BRIDGE DATA**

|                             |                                   |     |                                     |
|-----------------------------|-----------------------------------|-----|-------------------------------------|
| Posted load limit?          |                                   | Yes | <input type="checkbox"/>            |
|                             |                                   | No  | <input checked="" type="checkbox"/> |
| If yes, give limit (tons)   |                                   |     |                                     |
| Height clearance?           | Over (bridge structure over), (m) | Yes | <input type="checkbox"/>            |
|                             |                                   | No  | <input checked="" type="checkbox"/> |
| If yes, give clearances (m) | Under (road under bridge), (m)    | Yes | <input type="checkbox"/>            |
|                             |                                   | No  | <input checked="" type="checkbox"/> |
| Maximum bridge height (m)   |                                   |     |                                     |

**NAVIGATION CLEARANCES**

|                 |                      |
|-----------------|----------------------|
| Horizontal, (m) | <input type="text"/> |
| Vertical, (m)   | <input type="text"/> |

**BRIDGE GEOMETRY**

|                           |  |  |
|---------------------------|--|--|
| Overall length, (m)       | 346.659  |  |
| Overall width, (m)        | 10.26-suspension<br>9.81-pony truss<br>8.90-steel plate girder |  |
| Number of lanes           | 2  |  |
| Number of spans           | 4  |  |
| Width of carriageway, (m) | 7.35   |  |
| Width of island(s), (m)   |  |  |
| Width of shoulder, (m)    | Left   | <input type="text"/>                     |
|                           | Right  | <input type="text"/>                     |
| Sidewalk width, (m)       | Left   | 1.03-suspension<br>0.80-pony truss & spg |
|                           | Right  | 1.03-suspension<br>0.80-pony truss & spg |

**TRAFFIC DIRECTION**

|   |                                     |
|---|-------------------------------------|
| Two way                                     | <input checked="" type="checkbox"/> |
| One way in direction of increasing chainage | <input type="checkbox"/>            |
| One way in direction of decreasing chainage | <input type="checkbox"/>            |

**TYPE OF BRIDGE**

|                 |                                     |
|-----------------|-------------------------------------|
| Standard Bridge | <input type="checkbox"/>            |
| Special bridge  | <input checked="" type="checkbox"/> |

Special bridges are major or complex bridges and require additional inventory information outside the RBIA.

**GENERAL BRIDGE TYPE**

Concrete  Steel  Bailey  Timber

**YEAR OF CONSTRUCTION OF BRIDGE**

|                      |                          |                                     |
|----------------------|--------------------------|-------------------------------------|
| Year of construction | Year known               | <input checked="" type="checkbox"/> |
|                      | Spanish era (1600-1899)  | <input type="checkbox"/>            |
|                      | American era (1899-1941) | <input type="checkbox"/>            |
|                      | Japanese era (1941-1945) | <input type="checkbox"/>            |
|                      | 1945 – 1970              | <input type="checkbox"/>            |
|                      | Post 1970                | <input type="checkbox"/>            |
| Insert year if known | 1976                     |                                     |

**END OF WARRANTY PERIOD**

|                                       |                      |
|---------------------------------------|----------------------|
| Insert year of end of warranty period | <input type="text"/> |
|---------------------------------------|----------------------|

**PUBLIC UTILITIES CARRIED**

| Utility Identification No. | 1                                   | 2                        | 3                        | 4                        | 5                        | 6                        |
|----------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Electricity                | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Gas                        | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Telephone                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Oil, fuel                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Water                      | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sewage                     | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other                      | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**PUBLIC UTILITIES DETAIL**

Description for each utility, listed by Utility Identification No.

|    |       |                          |
|----|-------|--------------------------|
| 1. | LHS   | <input type="checkbox"/> |
|    | Under | <input type="checkbox"/> |
|    | RHS   | <input type="checkbox"/> |
|    | Other | <input type="checkbox"/> |
| 2. | LHS   | <input type="checkbox"/> |
|    | Under | <input type="checkbox"/> |
|    | RHS   | <input type="checkbox"/> |
|    | Other | <input type="checkbox"/> |
| 3. | LHS   | <input type="checkbox"/> |
|    | Under | <input type="checkbox"/> |
|    | RHS   | <input type="checkbox"/> |
|    | Other | <input type="checkbox"/> |
| 4. | LHS   | <input type="checkbox"/> |
|    | Under | <input type="checkbox"/> |
|    | RHS   | <input type="checkbox"/> |
|    | Other | <input type="checkbox"/> |
| 5. | LHS   | <input type="checkbox"/> |
|    | Under | <input type="checkbox"/> |
|    | RHS   | <input type="checkbox"/> |
|    | Other | <input type="checkbox"/> |
| 6. | LHS   | <input type="checkbox"/> |
|    | Under | <input type="checkbox"/> |
|    | RHS   | <input type="checkbox"/> |
|    | Other | <input type="checkbox"/> |

**LIGHTING TO BRIDGE**

Yes  No

**INTERVAL OF LIGHT POLES**

|            |                      |
|------------|----------------------|
| Left, (m)  | <input type="text"/> |
| Right, (m) | <input type="text"/> |

**MBF – Inventory Inspection Form (Type 5)**

**Bridge ID**

**B01113LZ**

**Bridge Name**

**Magapit Suspension Bridge**

**TERRAIN CROSSED**

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Sea (exposed)                   | <input type="checkbox"/>            |
| Estuary (salt water)            | <input type="checkbox"/>            |
| River or waterway (fresh water) | <input checked="" type="checkbox"/> |
| Canal                           | <input type="checkbox"/>            |
| Railway                         | <input type="checkbox"/>            |
| Road                            | <input type="checkbox"/>            |
| Open ground                     | <input type="checkbox"/>            |
| Swamp                           | <input type="checkbox"/>            |
| Other                           | <input type="checkbox"/>            |

Up to three (3) types of terrain may be selected.

**BRIDGE COMMENTS**

Insert comments about unusual bridges:

Bridge type: Center span is a steel truss suspension type

**BRIDGE TYPE OF CONSTRUCTION**

| Type of Construction Identification No. | 1                                   | 2                                   | 3                                   |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Girder                                  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Box girder                              | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Slab                                    | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Voided slab                             | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Demountable (Bailey type)               | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Truss                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Trestle                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Cable stayed (Extradosed)               | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Suspension                              | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Arch                                    | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Portal frame                            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Other structure                         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Spillway/Overflow                       | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |

Most structures are of only one type of construction. Some bridges are of more than one type of construction; these shall be listed in order of importance.

**MAIN MEMBER MATERIAL**

| Type of Construction Identification No. | 1                                   | 2                                   | 3                                   |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Timber                                  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Steel                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Concrete                                | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Masonry                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Other (Cable)                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |

**SUBSTRUCTURE TYPE**

|           |                                     |
|-----------|-------------------------------------|
| Concrete  | <input checked="" type="checkbox"/> |
| Steel     | <input type="checkbox"/>            |
| Masonry   | <input type="checkbox"/>            |
| Gabion    | <input type="checkbox"/>            |
| Timber    | <input type="checkbox"/>            |
| Other     | <input type="checkbox"/>            |
| Not known | <input type="checkbox"/>            |

**DECK MATERIAL**

|          |                                     |
|----------|-------------------------------------|
| Timber   | <input type="checkbox"/>            |
| Steel    | <input type="checkbox"/>            |
| Concrete | <input checked="" type="checkbox"/> |
| Masonry  | <input type="checkbox"/>            |
| Other    | <input type="checkbox"/>            |

**DECK WEARING SURFACE**

|                    |                                     |
|--------------------|-------------------------------------|
| Asphaltic concrete | <input checked="" type="checkbox"/> |
| Other              | <input type="checkbox"/>            |
| None               | <input type="checkbox"/>            |

**DECK DRAINAGE**

|                       |                                     |
|-----------------------|-------------------------------------|
| Scuppers through deck | <input type="checkbox"/>            |
| Piped drainage        | <input checked="" type="checkbox"/> |
| Other                 | <input type="checkbox"/>            |
| None                  | <input type="checkbox"/>            |

**DESIGN LOAD**

|                      |           |                                     |
|----------------------|-----------|-------------------------------------|
| Available?           | Yes       | <input type="checkbox"/>            |
|                      | No        | <input checked="" type="checkbox"/> |
|                      | Not known | <input type="checkbox"/>            |
| If yes, insert as:   |           |                                     |
| <input type="text"/> | % of MS18 |                                     |

**DESIGN DRAWINGS**

|                         |           |                                     |
|-------------------------|-----------|-------------------------------------|
| Available?              | Yes       | <input type="checkbox"/>            |
|                         | No        | <input type="checkbox"/>            |
|                         | Not known | <input checked="" type="checkbox"/> |
| If yes, insert location |           |                                     |
| <input type="text"/>    |           |                                     |

**AS-BUILT DRAWINGS**

|                         |           |                                     |
|-------------------------|-----------|-------------------------------------|
| Available?              | Yes       | <input checked="" type="checkbox"/> |
|                         | No        | <input type="checkbox"/>            |
|                         | Not known | <input type="checkbox"/>            |
| If yes, insert location |           |                                     |
| <input type="text"/>    |           |                                     |
| Head Office             |           |                                     |

**MBF – Inventory Inspection Form (Type 5)**

**Bridge ID** **B01113LZ**

**Bridge Name** **Magapit Suspension Bridge**

**BRIDGE MODIFICATION SHEET**

**MODIFICATION TYPE**

|                              |      |                                     |
|------------------------------|------|-------------------------------------|
| Bridge widened?              | Yes  | <input type="checkbox"/>            |
| If yes, complete below       | No   | <input checked="" type="checkbox"/> |
| Year of widening             |      |                                     |
| Bridge strengthened?         | Yes  | <input checked="" type="checkbox"/> |
| If yes, complete below       | No   | <input type="checkbox"/>            |
| Year of strengthening        | 2012 |                                     |
| Bridge retrofitted?          | Yes  | <input checked="" type="checkbox"/> |
| If yes, complete below       | No   | <input type="checkbox"/>            |
| Year of seismic retrofitting | 2012 |                                     |
| Bridge lengthened?           | Yes  | <input type="checkbox"/>            |
| If yes, complete below       | No   | <input checked="" type="checkbox"/> |
| Year of lengthening          |      |                                     |

**SUPERSTRUCTURE WIDENING FORM**

|                    |                          |
|--------------------|--------------------------|
| Widened left side  | <input type="checkbox"/> |
| Widened right side | <input type="checkbox"/> |
| Widened both sides | <input type="checkbox"/> |

**SUPERSTRUCTURE WIDENING DETAIL**

|   |                          |
|---|--------------------------|
| Same detail/material as existing bridge | <input type="checkbox"/> |
| Same detail/modified material           | <input type="checkbox"/> |
| Different details                       | <input type="checkbox"/> |

**SUPERSTRUCTURE WIDENING TYPE**

|                           |                          |
|---------------------------|--------------------------|
| Cantilever box girder     | <input type="checkbox"/> |
| Girder                    | <input type="checkbox"/> |
| Box girder                | <input type="checkbox"/> |
| Slab                      | <input type="checkbox"/> |
| Voided slab               | <input type="checkbox"/> |
| Demountable (Bailey type) | <input type="checkbox"/> |
| Truss                     | <input type="checkbox"/> |
| Trestle                   | <input type="checkbox"/> |
| Cable stayed              | <input type="checkbox"/> |
| Suspension                | <input type="checkbox"/> |
| Arch                      | <input type="checkbox"/> |
| Portal frame              | <input type="checkbox"/> |
| Other structure           | <input type="checkbox"/> |

**SUPERSTRUCTURE WIDENING MATERIAL**

|          |                          |
|----------|--------------------------|
| Timber   | <input type="checkbox"/> |
| Steel    | <input type="checkbox"/> |
| Concrete | <input type="checkbox"/> |
| Masonry  | <input type="checkbox"/> |
| Other    | <input type="checkbox"/> |

**TYPE OF PIER WIDENING**

|                         |                          |
|-------------------------|--------------------------|
| Widening original piers | <input type="checkbox"/> |
| Bored pile bents        | <input type="checkbox"/> |
| Driven pile bents       | <input type="checkbox"/> |
| Coping widening         | <input type="checkbox"/> |
| Other                   | <input type="checkbox"/> |

**TYPE OF ABUTMENT WIDENING**

|                             |                          |
|-----------------------------|--------------------------|
| Widening original abutments | <input type="checkbox"/> |
| Bored pile bents            | <input type="checkbox"/> |
| Driven pile bents           | <input type="checkbox"/> |
| Coping widening             | <input type="checkbox"/> |
| Other                       | <input type="checkbox"/> |

**PIER/ABUTMENT WIDENING MATERIAL**

|          |                          |
|----------|--------------------------|
| Timber   | <input type="checkbox"/> |
| Steel    | <input type="checkbox"/> |
| Concrete | <input type="checkbox"/> |
| Masonry  | <input type="checkbox"/> |
| Other    | <input type="checkbox"/> |

**TYPE OF STRENGTHENING**

|   |                                     |
|---|-------------------------------------|
| Main member reinforcement                       | <input type="checkbox"/>            |
| Deck reinforcement (Carbon Fiber Reinforcement) | <input checked="" type="checkbox"/> |
| Additional piers                                | <input type="checkbox"/>            |
| Substructure reinforcement (Jacketing of piers) | <input checked="" type="checkbox"/> |
| Other   | <input type="checkbox"/>            |

**TYPE OF SEISMIC RETROFIT**

|                                |                                     |
|--------------------------------|-------------------------------------|
| Sleeves to columns             | <input type="checkbox"/>            |
| Lateral restraints             | <input type="checkbox"/>            |
| Longitudinal restraints        | <input type="checkbox"/>            |
| Beam continuity                | <input type="checkbox"/>            |
| Deck continuity                | <input type="checkbox"/>            |
| Other (Retrofitting of towers) | <input checked="" type="checkbox"/> |

**TYPE OF LENGTHENING**

|  |                          |
|--|--------------------------|
| Low chainage end, original and widening  | <input type="checkbox"/> |
| Low chainage end, widened part only      | <input type="checkbox"/> |
| High chainage end, original and widening | <input type="checkbox"/> |
| High chainage end, widened part only     | <input type="checkbox"/> |

|                    |                          |
|--------------------|--------------------------|
| No. of spans added | <input type="checkbox"/> |
|--------------------|--------------------------|

**MODIFICATION COMMENTS**

|   |
|---|
| Insert comments about unusual modifications to bridges: |
|---|

# MBF – Inventory Inspection Form (Type 5)

Bridge ID **B01113LZ**

Bridge Name **Magapit Suspension Bridge**

## GENERAL SPAN INFORMATION

|                        |       |
|------------------------|-------|
| Span Number            | 1     |
| Length of span, (m)    | 17.58 |
| Skew (in Degrees)      | 0     |
| Number of main members | 4     |

## MAIN MEMBER TYPE

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Girder - Also complete girder form    | <input checked="" type="checkbox"/> |
| Cantilever girder continuous          | <input type="checkbox"/>            |
| Cantilever girder with suspended span | <input type="checkbox"/>            |
| Slab                                  | <input type="checkbox"/>            |
| Voided slab                           | <input type="checkbox"/>            |
| Demountable (Bailey type)             | <input type="checkbox"/>            |
| Through truss                         | <input type="checkbox"/>            |
| Deck truss                            | <input type="checkbox"/>            |
| Cable supported                       | <input type="checkbox"/>            |
| Arch                                  | <input type="checkbox"/>            |

## GIRDER FORM

|                         |                                     |
|-------------------------|-------------------------------------|
| I beam                  | <input type="checkbox"/>            |
| Channel beam            | <input type="checkbox"/>            |
| Rectangular beam        | <input type="checkbox"/>            |
| Tee beam                | <input type="checkbox"/>            |
| Box girder              | <input type="checkbox"/>            |
| Built-Up (Plate) girder | <input checked="" type="checkbox"/> |

## MAIN MEMBER MATERIAL

|          |                                     |
|----------|-------------------------------------|
| Timber   | <input type="checkbox"/>            |
| Steel    | <input checked="" type="checkbox"/> |
| Concrete | <input type="checkbox"/>            |
| Masonry  | <input type="checkbox"/>            |
| Other    | <input type="checkbox"/>            |

## MAIN MEMBER PRESTRESSED?

|           |                                     |
|-----------|-------------------------------------|
| Yes       | <input type="checkbox"/>            |
| No        | <input checked="" type="checkbox"/> |
| Not known | <input type="checkbox"/>            |

## CONTINUITY

|                  | L                                   | H                                   |
|------------------|-------------------------------------|-------------------------------------|
| Fixed            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Continuous       | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Simply supported | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Not supported    | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Not known        | <input type="checkbox"/>            | <input type="checkbox"/>            |

L Low chainage end  
H High chainage end

## SECONDARY MEMBER TYPE

|                                 |                          |
|---------------------------------|--------------------------|
| Transverse/longitudinal girders | <input type="checkbox"/> |
| Other                           | <input type="checkbox"/> |
| None                            | <input type="checkbox"/> |

## SECONDARY MEMBER MATERIAL

|          |                          |
|----------|--------------------------|
| Masonry  | <input type="checkbox"/> |
| Concrete | <input type="checkbox"/> |
| Steel    | <input type="checkbox"/> |
| Timber   | <input type="checkbox"/> |
| Other    | <input type="checkbox"/> |

## SECONDARY MEMBER PRESTRESSED?

|           |                          |
|-----------|--------------------------|
| Yes       | <input type="checkbox"/> |
| No        | <input type="checkbox"/> |
| Not known | <input type="checkbox"/> |

## OTHER MEMBER TYPE

|            |                                     |
|------------|-------------------------------------|
| Diaphragms | <input checked="" type="checkbox"/> |
| Bracings   | <input type="checkbox"/>            |
| Other      | <input type="checkbox"/>            |
| None       | <input type="checkbox"/>            |

## DECK MATERIAL

|          |                                     |
|----------|-------------------------------------|
| Timber   | <input type="checkbox"/>            |
| Steel    | <input type="checkbox"/>            |
| Concrete | <input checked="" type="checkbox"/> |
| Masonry  | <input type="checkbox"/>            |
| Other    | <input type="checkbox"/>            |

## RAILING TYPE

|                            | L                                   | R                                   |
|----------------------------|-------------------------------------|-------------------------------------|
| Concrete wall              | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Concrete wall and top rail | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Concrete posts and rails   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Steel posts and rails      | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Aluminium posts and rails  | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Timber posts and rails     | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Masonry wall               | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Other                      | <input type="checkbox"/>            | <input type="checkbox"/>            |
| None                       | <input type="checkbox"/>            | <input type="checkbox"/>            |

L Left side  
R Right side

## SPAN COMMENTS

Insert comments about unusual spans and special components:

# MBF – Inventory Inspection Form (Type 5)

Bridge ID **B01113LZ**

Bridge Name **Magapit Suspension Bridge**

## GENERAL SPAN INFORMATION

|                        |        |
|------------------------|--------|
| Span Number            | 2      |
| Length of span, (m)    | 36.759 |
| Skew (in Degrees)      | 0      |
| Number of main members | 2      |

## MAIN MEMBER TYPE

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Girder - Also complete girder form    | <input type="checkbox"/>            |
| Cantilever girder continuous          | <input type="checkbox"/>            |
| Cantilever girder with suspended span | <input type="checkbox"/>            |
| Slab                                  | <input type="checkbox"/>            |
| Voided slab                           | <input type="checkbox"/>            |
| Demountable (Bailey type)             | <input type="checkbox"/>            |
| Through truss                         | <input checked="" type="checkbox"/> |
| Deck truss                            | <input type="checkbox"/>            |
| Cable supported                       | <input type="checkbox"/>            |
| Arch                                  | <input type="checkbox"/>            |

## GIRDER FORM

|                         |                          |
|-------------------------|--------------------------|
| I beam                  | <input type="checkbox"/> |
| Channel beam            | <input type="checkbox"/> |
| Rectangular beam        | <input type="checkbox"/> |
| Tee beam                | <input type="checkbox"/> |
| Box girder              | <input type="checkbox"/> |
| Built-Up (Plate) girder | <input type="checkbox"/> |

## MAIN MEMBER MATERIAL

|          |                                     |
|----------|-------------------------------------|
| Timber   | <input type="checkbox"/>            |
| Steel    | <input checked="" type="checkbox"/> |
| Concrete | <input type="checkbox"/>            |
| Masonry  | <input type="checkbox"/>            |
| Other    | <input type="checkbox"/>            |

## MAIN MEMBER PRESTRESSED?

|           |                                     |
|-----------|-------------------------------------|
| Yes       | <input type="checkbox"/>            |
| No        | <input checked="" type="checkbox"/> |
| Not known | <input type="checkbox"/>            |

## CONTINUITY

|                  | L                                   | H                                   |
|------------------|-------------------------------------|-------------------------------------|
| Fixed            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Continuous       | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Simply supported | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Not supported    | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Not known        | <input type="checkbox"/>            | <input type="checkbox"/>            |

L Low chainage end  
H High chainage end

## SECONDARY MEMBER TYPE

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Transverse/longitudinal girders | <input checked="" type="checkbox"/> |
| Other                           | <input type="checkbox"/>            |
| None                            | <input type="checkbox"/>            |

## SECONDARY MEMBER MATERIAL

|          |                                     |
|----------|-------------------------------------|
| Masonry  | <input type="checkbox"/>            |
| Concrete | <input type="checkbox"/>            |
| Steel    | <input checked="" type="checkbox"/> |
| Timber   | <input type="checkbox"/>            |
| Other    | <input type="checkbox"/>            |

## SECONDARY MEMBER PRESTRESSED?

|           |                                     |
|-----------|-------------------------------------|
| Yes       | <input type="checkbox"/>            |
| No        | <input checked="" type="checkbox"/> |
| Not known | <input type="checkbox"/>            |

## OTHER MEMBER TYPE

|            |                                     |
|------------|-------------------------------------|
| Diaphragms | <input type="checkbox"/>            |
| Bracings   | <input checked="" type="checkbox"/> |
| Other      | <input type="checkbox"/>            |
| None       | <input type="checkbox"/>            |

## DECK MATERIAL

|          |                                     |
|----------|-------------------------------------|
| Timber   | <input type="checkbox"/>            |
| Steel    | <input type="checkbox"/>            |
| Concrete | <input checked="" type="checkbox"/> |
| Masonry  | <input type="checkbox"/>            |
| Other    | <input type="checkbox"/>            |

## RAILING TYPE

|                            | L                                   | R                                   |
|----------------------------|-------------------------------------|-------------------------------------|
| Concrete wall              | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Concrete wall and top rail | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Concrete posts and rails   | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Steel posts and rails      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Aluminium posts and rails  | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Timber posts and rails     | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Masonry wall               | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Other                      | <input type="checkbox"/>            | <input type="checkbox"/>            |
| None                       | <input type="checkbox"/>            | <input type="checkbox"/>            |

L Left side  
R Right side

## SPAN COMMENTS

Insert comments about unusual spans and special components:

# MBF – Inventory Inspection Form (Type 5)

Bridge ID **B01113LZ**

Bridge Name **Magapit Suspension Bridge**

## GENERAL SPAN INFORMATION

|                        |       |
|------------------------|-------|
| Span Number            | 3     |
| Length of span, (m)    | 256.6 |
| Skew (in Degrees)      | 0     |
| Number of main members | 2     |

## MAIN MEMBER TYPE

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Girder - Also complete girder form    | <input type="checkbox"/>            |
| Cantilever girder continuous          | <input type="checkbox"/>            |
| Cantilever girder with suspended span | <input type="checkbox"/>            |
| Slab                                  | <input type="checkbox"/>            |
| Voided slab                           | <input type="checkbox"/>            |
| Demountable (Bailey type)             | <input type="checkbox"/>            |
| Through truss                         | <input type="checkbox"/>            |
| Deck truss                            | <input type="checkbox"/>            |
| Cable supported                       | <input checked="" type="checkbox"/> |
| Arch                                  | <input type="checkbox"/>            |

## GIRDER FORM

|                         |                          |
|-------------------------|--------------------------|
| I beam                  | <input type="checkbox"/> |
| Channel beam            | <input type="checkbox"/> |
| Rectangular beam        | <input type="checkbox"/> |
| Tee beam                | <input type="checkbox"/> |
| Box girder              | <input type="checkbox"/> |
| Built-Up (Plate) girder | <input type="checkbox"/> |

## MAIN MEMBER MATERIAL

|          |                                     |
|----------|-------------------------------------|
| Timber   | <input type="checkbox"/>            |
| Steel    | <input type="checkbox"/>            |
| Concrete | <input type="checkbox"/>            |
| Masonry  | <input type="checkbox"/>            |
| Other    | <input checked="" type="checkbox"/> |

## MAIN MEMBER PRESTRESSED?

|           |                                     |
|-----------|-------------------------------------|
| Yes       | <input type="checkbox"/>            |
| No        | <input checked="" type="checkbox"/> |
| Not known | <input type="checkbox"/>            |

## CONTINUITY

|                  | L                                   | H                                   |
|------------------|-------------------------------------|-------------------------------------|
| Fixed            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Continuous       | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Simply supported | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Not supported    | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Not known        | <input type="checkbox"/>            | <input type="checkbox"/>            |

L Low chainage end  
H High chainage end

## SECONDARY MEMBER TYPE

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Transverse/longitudinal girders | <input checked="" type="checkbox"/> |
| Other                           | <input type="checkbox"/>            |
| None                            | <input type="checkbox"/>            |

## SECONDARY MEMBER MATERIAL

|          |                                     |
|----------|-------------------------------------|
| Masonry  | <input type="checkbox"/>            |
| Concrete | <input type="checkbox"/>            |
| Steel    | <input checked="" type="checkbox"/> |
| Timber   | <input type="checkbox"/>            |
| Other    | <input type="checkbox"/>            |

## SECONDARY MEMBER PRESTRESSED?

|           |                                     |
|-----------|-------------------------------------|
| Yes       | <input type="checkbox"/>            |
| No        | <input checked="" type="checkbox"/> |
| Not known | <input type="checkbox"/>            |

## OTHER MEMBER TYPE

|            |                                     |
|------------|-------------------------------------|
| Diaphragms | <input type="checkbox"/>            |
| Bracings   | <input checked="" type="checkbox"/> |
| Other      | <input type="checkbox"/>            |
| None       | <input checked="" type="checkbox"/> |

## DECK MATERIAL

|          |                                     |
|----------|-------------------------------------|
| Timber   | <input type="checkbox"/>            |
| Steel    | <input type="checkbox"/>            |
| Concrete | <input checked="" type="checkbox"/> |
| Masonry  | <input type="checkbox"/>            |
| Other    | <input type="checkbox"/>            |

## RAILING TYPE

|                            | L                                   | R                                   |
|----------------------------|-------------------------------------|-------------------------------------|
| Concrete wall              | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Concrete wall and top rail | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Concrete posts and rails   | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Steel posts and rails      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Aluminium posts and rails  | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Timber posts and rails     | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Masonry wall               | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Other                      | <input type="checkbox"/>            | <input type="checkbox"/>            |
| None                       | <input type="checkbox"/>            | <input type="checkbox"/>            |

L Left side  
R Right side

## SPAN COMMENTS

Insert comments about unusual spans and special components:

# MBF – Inventory Inspection Form (Type 5)

Bridge ID **B01113LZ**

Bridge Name **Magapit Suspension Bridge**

## GENERAL SPAN INFORMATION

|                        |        |
|------------------------|--------|
| Span Number            | 4      |
| Length of span, (m)    | 36.759 |
| Skew (in Degrees)      | 0      |
| Number of main members | 2      |

## MAIN MEMBER TYPE

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Girder - Also complete girder form    | <input type="checkbox"/>            |
| Cantilever girder continuous          | <input type="checkbox"/>            |
| Cantilever girder with suspended span | <input type="checkbox"/>            |
| Slab                                  | <input type="checkbox"/>            |
| Voided slab                           | <input type="checkbox"/>            |
| Demountable (Bailey type)             | <input type="checkbox"/>            |
| Through truss                         | <input checked="" type="checkbox"/> |
| Deck truss                            | <input type="checkbox"/>            |
| Cable supported                       | <input type="checkbox"/>            |
| Arch                                  | <input type="checkbox"/>            |

## GIRDER FORM

|                         |                          |
|-------------------------|--------------------------|
| I beam                  | <input type="checkbox"/> |
| Channel beam            | <input type="checkbox"/> |
| Rectangular beam        | <input type="checkbox"/> |
| Tee beam                | <input type="checkbox"/> |
| Box girder              | <input type="checkbox"/> |
| Built-Up (Plate) girder | <input type="checkbox"/> |

## MAIN MEMBER MATERIAL

|          |                                     |
|----------|-------------------------------------|
| Timber   | <input type="checkbox"/>            |
| Steel    | <input checked="" type="checkbox"/> |
| Concrete | <input type="checkbox"/>            |
| Masonry  | <input type="checkbox"/>            |
| Other    | <input type="checkbox"/>            |

## MAIN MEMBER PRESTRESSED?

|           |                                     |
|-----------|-------------------------------------|
| Yes       | <input type="checkbox"/>            |
| No        | <input checked="" type="checkbox"/> |
| Not known | <input type="checkbox"/>            |

## CONTINUITY

|                  | L                                   | H                                   |
|------------------|-------------------------------------|-------------------------------------|
| Fixed            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Continuous       | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Simply supported | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Not supported    | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Not known        | <input type="checkbox"/>            | <input type="checkbox"/>            |

L Low chainage end  
H High chainage end

## SECONDARY MEMBER TYPE

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Transverse/longitudinal girders | <input checked="" type="checkbox"/> |
| Other                           | <input type="checkbox"/>            |
| None                            | <input type="checkbox"/>            |

## SECONDARY MEMBER MATERIAL

|          |                                     |
|----------|-------------------------------------|
| Masonry  | <input type="checkbox"/>            |
| Concrete | <input type="checkbox"/>            |
| Steel    | <input checked="" type="checkbox"/> |
| Timber   | <input type="checkbox"/>            |
| Other    | <input type="checkbox"/>            |

## SECONDARY MEMBER PRESTRESSED?

|           |                                     |
|-----------|-------------------------------------|
| Yes       | <input type="checkbox"/>            |
| No        | <input checked="" type="checkbox"/> |
| Not known | <input type="checkbox"/>            |

## OTHER MEMBER TYPE

|            |                                     |
|------------|-------------------------------------|
| Diaphragms | <input type="checkbox"/>            |
| Bracings   | <input checked="" type="checkbox"/> |
| Other      | <input type="checkbox"/>            |
| None       | <input type="checkbox"/>            |

## DECK MATERIAL

|          |                                     |
|----------|-------------------------------------|
| Timber   | <input type="checkbox"/>            |
| Steel    | <input type="checkbox"/>            |
| Concrete | <input checked="" type="checkbox"/> |
| Masonry  | <input type="checkbox"/>            |
| Other    | <input type="checkbox"/>            |

## RAILING TYPE

|                            | L                                   | R                                   |
|----------------------------|-------------------------------------|-------------------------------------|
| Concrete wall              | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Concrete wall and top rail | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Concrete posts and rails   | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Steel posts and rails      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Aluminium posts and rails  | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Timber posts and rails     | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Masonry wall               | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Other                      | <input type="checkbox"/>            | <input type="checkbox"/>            |
| None                       | <input type="checkbox"/>            | <input type="checkbox"/>            |

L Left side  
R Right side

## SPAN COMMENTS

Insert comments about unusual spans and special components:

**MBF – Inventory Inspection Form (Type 5)**

**Bridge ID** **B01113LZ**

**Bridge Name** **Magapit Suspension Bridge**

**GENERAL PIER INFORMATION**

|                    |          |
|--------------------|----------|
| <b>Pier Number</b> | <b>1</b> |
| Pier height, (m)   | 14.28    |
| Pier height case   | 1        |

**PIER TYPE**

|                    |                                     |
|--------------------|-------------------------------------|
| Wall               | <input type="checkbox"/>            |
| Single column      | <input type="checkbox"/>            |
| Multiple columns   | <input checked="" type="checkbox"/> |
| Single pile bent   | <input type="checkbox"/>            |
| Multiple pile bent | <input type="checkbox"/>            |
| Other              | <input type="checkbox"/>            |
| Not known          | <input type="checkbox"/>            |

**PIER MATERIAL**

|          |                                     |
|----------|-------------------------------------|
| Timber   | <input type="checkbox"/>            |
| Steel    | <input type="checkbox"/>            |
| Concrete | <input checked="" type="checkbox"/> |
| Masonry  | <input type="checkbox"/>            |
| Other    | <input type="checkbox"/>            |

**PIER FOUNDATION TYPE**

|                |                                     |
|----------------|-------------------------------------|
| Spread footing | <input type="checkbox"/>            |
| Bored piles    | <input type="checkbox"/>            |
| Driven piles   | <input checked="" type="checkbox"/> |
| Caisson        | <input type="checkbox"/>            |
| Other          | <input type="checkbox"/>            |
| Not known      | <input type="checkbox"/>            |

**BEARING TYPE LOW CHAINAGE**

|                   |                                     |
|-------------------|-------------------------------------|
| Elastomeric pad   | <input checked="" type="checkbox"/> |
| Pot bearings      | <input type="checkbox"/>            |
| Steel plate       | <input type="checkbox"/>            |
| PTFE coated plate | <input type="checkbox"/>            |
| Metal rocker      | <input type="checkbox"/>            |
| Monolithic        | <input type="checkbox"/>            |
| None              | <input type="checkbox"/>            |
| Other             | <input type="checkbox"/>            |
| Not known         | <input type="checkbox"/>            |

**BEARING TYPE HIGH CHAINAGE**

|                   |                                     |
|-------------------|-------------------------------------|
| Elastomeric pad   | <input type="checkbox"/>            |
| Pot bearing       | <input checked="" type="checkbox"/> |
| Steel plate       | <input type="checkbox"/>            |
| PTFE coated plate | <input type="checkbox"/>            |
| Metal rocker      | <input type="checkbox"/>            |
| Monolithic        | <input type="checkbox"/>            |
| Other             | <input type="checkbox"/>            |
| None              | <input type="checkbox"/>            |
| Not known         | <input type="checkbox"/>            |

**LATERAL RESTRAINT TYPE**

|                 |                                     |
|-----------------|-------------------------------------|
| Concrete        | <input type="checkbox"/>            |
| Steel           | <input type="checkbox"/>            |
| Cables or bolts | <input checked="" type="checkbox"/> |
| Other           | <input type="checkbox"/>            |
| None            | <input type="checkbox"/>            |
| Not known       | <input type="checkbox"/>            |

**LONGITUDINAL RESTRAINT TYPE**

|                 |                                     |
|-----------------|-------------------------------------|
| Concrete        | <input type="checkbox"/>            |
| Steel           | <input type="checkbox"/>            |
| Cables or bolts | <input checked="" type="checkbox"/> |
| Other           | <input type="checkbox"/>            |
| None            | <input type="checkbox"/>            |
| Not known       | <input type="checkbox"/>            |

**EXPANSION JOINT TYPE**

|                 |                                     |
|-----------------|-------------------------------------|
| Continuous deck | <input type="checkbox"/>            |
| Steel plate     | <input checked="" type="checkbox"/> |
| Rubber          | <input type="checkbox"/>            |
| None (open gap) | <input type="checkbox"/>            |
| Other           | <input type="checkbox"/>            |
| None            | <input type="checkbox"/>            |

**SCOUR PROTECTION**

|                       |                                     |
|-----------------------|-------------------------------------|
| Dumped riprap         | <input type="checkbox"/>            |
| Grouted riprap        | <input type="checkbox"/>            |
| Gabions or mattresses | <input type="checkbox"/>            |
| Concrete              | <input type="checkbox"/>            |
| Steel sheet piling    | <input type="checkbox"/>            |
| Concrete sheet piling | <input type="checkbox"/>            |
| Other                 | <input type="checkbox"/>            |
| None                  | <input checked="" type="checkbox"/> |
| Not known             | <input type="checkbox"/>            |

**PIER COMMENTS**

Insert comments about unusual piers:

# MBF – Inventory Inspection Form (Type 5)

Bridge ID **B01113LZ**

Bridge Name **Magapit Suspension Bridge**

## GENERAL PIER INFORMATION

|                  |      |
|------------------|------|
| Pier Number      | 2    |
| Pier height, (m) | 17.4 |
| Pier height case | 1    |

## PIER TYPE

|                    |                                     |
|--------------------|-------------------------------------|
| Wall               | <input type="checkbox"/>            |
| Single column      | <input type="checkbox"/>            |
| Multiple columns   | <input checked="" type="checkbox"/> |
| Single pile bent   | <input type="checkbox"/>            |
| Multiple pile bent | <input type="checkbox"/>            |
| Other              | <input type="checkbox"/>            |
| Not known          | <input type="checkbox"/>            |

## PIER MATERIAL

|          |                                     |
|----------|-------------------------------------|
| Timber   | <input type="checkbox"/>            |
| Steel    | <input type="checkbox"/>            |
| Concrete | <input checked="" type="checkbox"/> |
| Masonry  | <input type="checkbox"/>            |
| Other    | <input type="checkbox"/>            |

## PIER FOUNDATION TYPE

|                |                                     |
|----------------|-------------------------------------|
| Spread footing | <input type="checkbox"/>            |
| Bored piles    | <input type="checkbox"/>            |
| Driven piles   | <input checked="" type="checkbox"/> |
| Caisson        | <input type="checkbox"/>            |
| Other          | <input type="checkbox"/>            |
| Not known      | <input type="checkbox"/>            |

## BEARING TYPE LOW CHAINAGE

|                   |                                     |
|-------------------|-------------------------------------|
| Elastomeric pad   | <input type="checkbox"/>            |
| Pot bearings      | <input checked="" type="checkbox"/> |
| Steel plate       | <input type="checkbox"/>            |
| PTFE coated plate | <input type="checkbox"/>            |
| Metal rocker      | <input type="checkbox"/>            |
| Monolithic        | <input type="checkbox"/>            |
| None              | <input type="checkbox"/>            |
| Other             | <input type="checkbox"/>            |
| Not known         | <input type="checkbox"/>            |

## BEARING TYPE HIGH CHAINAGE

|                   |                                     |
|-------------------|-------------------------------------|
| Elastomeric pad   | <input type="checkbox"/>            |
| Pot bearing       | <input checked="" type="checkbox"/> |
| Steel plate       | <input type="checkbox"/>            |
| PTFE coated plate | <input type="checkbox"/>            |
| Metal rocker      | <input type="checkbox"/>            |
| Monolithic        | <input type="checkbox"/>            |
| Other             | <input type="checkbox"/>            |
| None              | <input type="checkbox"/>            |
| Not known         | <input type="checkbox"/>            |

## LATERAL RESTRAINT TYPE

|                 |                                     |
|-----------------|-------------------------------------|
| Concrete        | <input type="checkbox"/>            |
| Steel           | <input type="checkbox"/>            |
| Cables or bolts | <input checked="" type="checkbox"/> |
| Other           | <input type="checkbox"/>            |
| None            | <input type="checkbox"/>            |
| Not known       | <input type="checkbox"/>            |

## LONGITUDINAL RESTRAINT TYPE

|                 |                                     |
|-----------------|-------------------------------------|
| Concrete        | <input type="checkbox"/>            |
| Steel           | <input type="checkbox"/>            |
| Cables or bolts | <input checked="" type="checkbox"/> |
| Other           | <input type="checkbox"/>            |
| None            | <input type="checkbox"/>            |
| Not known       | <input type="checkbox"/>            |

## EXPANSION JOINT TYPE

|                 |                                     |
|-----------------|-------------------------------------|
| Continuous deck | <input type="checkbox"/>            |
| Steel plate     | <input checked="" type="checkbox"/> |
| Rubber          | <input type="checkbox"/>            |
| None (open gap) | <input type="checkbox"/>            |
| Other           | <input type="checkbox"/>            |
| None            | <input type="checkbox"/>            |

## SCOUR PROTECTION

|                       |                                     |
|-----------------------|-------------------------------------|
| Dumped riprap         | <input type="checkbox"/>            |
| Grouted riprap        | <input type="checkbox"/>            |
| Gabions or mattresses | <input type="checkbox"/>            |
| Concrete              | <input type="checkbox"/>            |
| Steel sheet piling    | <input type="checkbox"/>            |
| Concrete sheet piling | <input checked="" type="checkbox"/> |
| Other                 | <input type="checkbox"/>            |
| None                  | <input type="checkbox"/>            |
| Not known             | <input type="checkbox"/>            |

## PIER COMMENTS

Insert comments about unusual piers:

**MBF – Inventory Inspection Form (Type 5)**

**Bridge ID** **B01113LZ**

**Bridge Name** **Magapit Suspension Bridge**

**GENERAL PIER INFORMATION**

|                    |          |
|--------------------|----------|
| <b>Pier Number</b> | <b>3</b> |
| Pier height, (m)   | 17.4     |
| Pier height case   | 1        |

**PIER TYPE**

|                    |                                     |
|--------------------|-------------------------------------|
| Wall               | <input type="checkbox"/>            |
| Single column      | <input type="checkbox"/>            |
| Multiple columns   | <input checked="" type="checkbox"/> |
| Single pile bent   | <input type="checkbox"/>            |
| Multiple pile bent | <input type="checkbox"/>            |
| Other              | <input type="checkbox"/>            |
| Not known          | <input type="checkbox"/>            |

**PIER MATERIAL**

|          |                                     |
|----------|-------------------------------------|
| Timber   | <input type="checkbox"/>            |
| Steel    | <input type="checkbox"/>            |
| Concrete | <input checked="" type="checkbox"/> |
| Masonry  | <input type="checkbox"/>            |
| Other    | <input type="checkbox"/>            |

**PIER FOUNDATION TYPE**

|                |                                     |
|----------------|-------------------------------------|
| Spread footing | <input checked="" type="checkbox"/> |
| Bored piles    | <input type="checkbox"/>            |
| Driven piles   | <input type="checkbox"/>            |
| Caisson        | <input type="checkbox"/>            |
| Other          | <input type="checkbox"/>            |
| Not known      | <input type="checkbox"/>            |

**BEARING TYPE LOW CHAINAGE**

|                   |                                     |
|-------------------|-------------------------------------|
| Elastomeric pad   | <input type="checkbox"/>            |
| Pot bearings      | <input checked="" type="checkbox"/> |
| Steel plate       | <input type="checkbox"/>            |
| PTFE coated plate | <input type="checkbox"/>            |
| Metal rocker      | <input type="checkbox"/>            |
| Monolithic        | <input type="checkbox"/>            |
| None              | <input type="checkbox"/>            |
| Other             | <input type="checkbox"/>            |
| Not known         | <input type="checkbox"/>            |

**BEARING TYPE HIGH CHAINAGE**

|                   |                                     |
|-------------------|-------------------------------------|
| Elastomeric pad   | <input type="checkbox"/>            |
| Pot bearing       | <input checked="" type="checkbox"/> |
| Steel plate       | <input type="checkbox"/>            |
| PTFE coated plate | <input type="checkbox"/>            |
| Metal rocker      | <input type="checkbox"/>            |
| Monolithic        | <input type="checkbox"/>            |
| Other             | <input type="checkbox"/>            |
| None              | <input type="checkbox"/>            |
| Not known         | <input type="checkbox"/>            |

**LATERAL RESTRAINT TYPE**

|                 |                                     |
|-----------------|-------------------------------------|
| Concrete        | <input type="checkbox"/>            |
| Steel           | <input type="checkbox"/>            |
| Cables or bolts | <input checked="" type="checkbox"/> |
| Other           | <input type="checkbox"/>            |
| None            | <input type="checkbox"/>            |
| Not known       | <input type="checkbox"/>            |

**LONGITUDINAL RESTRAINT TYPE**

|                 |                                     |
|-----------------|-------------------------------------|
| Concrete        | <input type="checkbox"/>            |
| Steel           | <input type="checkbox"/>            |
| Cables or bolts | <input checked="" type="checkbox"/> |
| Other           | <input type="checkbox"/>            |
| None            | <input type="checkbox"/>            |
| Not known       | <input type="checkbox"/>            |

**EXPANSION JOINT TYPE**

|                 |                                     |
|-----------------|-------------------------------------|
| Continuous deck | <input type="checkbox"/>            |
| Steel plate     | <input checked="" type="checkbox"/> |
| Rubber          | <input type="checkbox"/>            |
| None (open gap) | <input type="checkbox"/>            |
| Other           | <input type="checkbox"/>            |
| None            | <input type="checkbox"/>            |

**SCOUR PROTECTION**

|                       |                                     |
|-----------------------|-------------------------------------|
| Dumped riprap         | <input type="checkbox"/>            |
| Grouted riprap        | <input type="checkbox"/>            |
| Gabions or mattresses | <input type="checkbox"/>            |
| Concrete              | <input type="checkbox"/>            |
| Steel sheet piling    | <input type="checkbox"/>            |
| Concrete sheet piling | <input type="checkbox"/>            |
| Other                 | <input type="checkbox"/>            |
| None                  | <input checked="" type="checkbox"/> |
| Not known             | <input type="checkbox"/>            |

**PIER COMMENTS**

Insert comments about unusual piers:

**MBF – Inventory Inspection Form (Type 5)**

**Bridge ID** **B01113LZ**

**Bridge Name** **Magapit Suspension Bridge**

**GENERAL ABUTMENT DATA**

|                        |          |
|------------------------|----------|
| <b>Abutment Number</b> | <b>1</b> |
| Abutment height, (m)   |          |
| Abutment height case   |          |

**ABUTMENT TYPE**

|                                  |   |
|----------------------------------|---|
| Solid wall                       |   |
| Spill through                    | X |
| Pile bent                        |   |
| Reinforced earth                 |   |
| Diaphragm wall                   |   |
| Other                            |   |
| None (cantilever superstructure) |   |
| None (superstructure on ground)  |   |
| Not known                        |   |

**ABUTMENT MATERIAL**

|          |   |
|----------|---|
| Concrete | X |
| Steel    |   |
| Timber   |   |
| Masonry  |   |
| Gabions  |   |
| Other    |   |

**ABUTMENT FOUNDATION**

|                |   |
|----------------|---|
| Spread footing |   |
| Bored pile     |   |
| Driven piles   | X |
| Caisson        |   |
| Diaphragm wall |   |
| Other          |   |
| Not known      |   |

**BEARING TYPE**

|                   |   |
|-------------------|---|
| Elastomeric pad   | X |
| Pot bearing       |   |
| Steel plate       |   |
| PTFE coated plate |   |
| Metal rocker      |   |
| Monolithic        |   |
| Other             |   |
| None              |   |
| Not known         |   |

**LATERAL RESTRAINT TYPE**

|                 |   |
|-----------------|---|
| Concrete        |   |
| Steel           |   |
| Cables or bolts | X |
| Other           |   |
| Not known       |   |
| None            |   |

**LONGITUDINAL RESTRAINT TYPE**

|                 |   |
|-----------------|---|
| Concrete        |   |
| Steel           |   |
| Cables or bolts | X |
| Other           |   |
| Not known       |   |
| None            |   |

**EXPANSION JOINT TYPE**

|                 |   |
|-----------------|---|
| Continuous deck |   |
| Steel plate     | X |
| Rubber          |   |
| None (open gap) |   |
| Other           |   |
| None            |   |

**SCOUR PROTECTION**

|                       |   |
|-----------------------|---|
| Dumped riprap         |   |
| Grouted riprap        |   |
| Gabions or mattresses |   |
| Concrete              |   |
| Steel sheet piling    |   |
| Concrete sheet piling |   |
| Other                 |   |
| None                  | X |
| Not known             |   |

**SLOPE PROTECTION**

|                       |   |
|-----------------------|---|
| Dumped riprap         |   |
| Grouted riprap        | X |
| Gabions or mattresses |   |
| Concrete              |   |
| Paving                |   |
| Other                 |   |
| None                  |   |

**ABUTMENT COMMENTS**

|   |
|---|
| Insert comments about unusual bridge abutments: |
|   |
| Insert comments about unusual bridge abutments: |
|   |
| Recommendation :                                |
|   |
|   |
|   |
|   |
|   |

**MBF – Inventory Inspection Form (Type 5)**

**Bridge ID** **B01113LZ**

**Bridge Name** **Magapit Suspension Bridge**

**Abutment Number** **1**

| <b>WING WALL TYPE</b> | <b>L</b> | <b>R</b> |
|-----------------------|----------|----------|
| Solid wall            | X        | X        |
| Reinforced earth      |          |          |
| Protected slope       |          |          |
| Other                 |          |          |
| None                  |          |          |

| <b>WING WALL MATERIAL</b> | <b>L</b> | <b>R</b> |
|---------------------------|----------|----------|
| Concrete                  | X        | X        |
| Masonry                   |          |          |
| Timber                    |          |          |
| Gabions or mattresses     |          |          |
| Other                     |          |          |

| <b>WING WALL FOUNDATION TYPE</b> | <b>L</b> | <b>R</b> |
|----------------------------------|----------|----------|
| Spread footing                   |          |          |
| Bored piles                      |          |          |
| Driven piles                     |          |          |
| Other                            |          |          |
| None (attached to abutment)      | X        | X        |
| Not known                        |          |          |

| <b>WING WALL LENGTH</b> |  |
|-------------------------|--|
| Left, (m)               |  |
| Right, (m)              |  |

**BRIDGE APPROACH**  
Overall length of approach, (m)

| <b>TYPE OF APPROACH</b>   |   |
|---|---|
| At grade  |   |
| Embankment up to 3.0 meters high, no retaining structures           |   |
| Embankment in excess of 3.0 meters high, no retaining structures    |   |
| Embankment up to 3.0 meters high, retained at road shoulders        |   |
| Embankment in excess of 3.0 meters high, retained at road shoulders | X |

**BRIDGE APPROACH COMMENTS**  
Insert comments about unusual or long bridge approaches:

**MBF – Inventory Inspection Form (Type 5)**

**Bridge ID** B01113LZ

**Bridge Name** Magapit Suspension Bridge

**GENERAL ABUTMENT DATA**

|                        |   |
|------------------------|---|
| <b>Abutment Number</b> | 2 |
| Abutment height, (m)   |   |
| Abutment height case   |   |

**ABUTMENT TYPE**

|                                  |   |
|----------------------------------|---|
| Solid wall                       |   |
| Spill through                    | X |
| Pile bent                        |   |
| Reinforced earth                 |   |
| Diaphragm wall                   |   |
| Other                            |   |
| None (cantilever superstructure) |   |
| None (superstructure on ground)  |   |
| Not known                        |   |

**ABUTMENT MATERIAL**

|          |   |
|----------|---|
| Concrete | X |
| Steel    |   |
| Timber   |   |
| Masonry  |   |
| Gabions  |   |
| Other    |   |

**ABUTMENT FOUNDATION**

|                |   |
|----------------|---|
| Spread footing | X |
| Bored pile     |   |
| Driven piles   |   |
| Caisson        |   |
| Diaphragm wall |   |
| Other          |   |
| Not known      |   |

**BEARING TYPE**

|                   |   |
|-------------------|---|
| Elastomeric pad   |   |
| Pot bearing       | X |
| Steel plate       |   |
| PTFE coated plate |   |
| Metal rocker      |   |
| Monolithic        |   |
| Other             |   |
| None              |   |
| Not known         |   |

**LATERAL RESTRAINT TYPE**

|                 |   |
|-----------------|---|
| Concrete        |   |
| Steel           |   |
| Cables or bolts | X |
| Other           |   |
| Not known       |   |
| None            |   |

**LONGITUDINAL RESTRAINT TYPE**

|                 |   |
|-----------------|---|
| Concrete        |   |
| Steel           |   |
| Cables or bolts | X |
| Other           |   |
| Not known       |   |
| None            |   |

**EXPANSION JOINT TYPE**

|                 |   |
|-----------------|---|
| Continuous deck |   |
| Steel plate     | X |
| Rubber          |   |
| None (open gap) |   |
| Other           |   |
| None            |   |

**SCOUR PROTECTION**

|                       |   |
|-----------------------|---|
| Dumped riprap         |   |
| Grouted riprap        |   |
| Gabions or mattresses |   |
| Concrete              |   |
| Steel sheet piling    |   |
| Concrete sheet piling |   |
| Other                 |   |
| None                  | X |
| Not known             |   |

**SLOPE PROTECTION**

|                       |   |
|-----------------------|---|
| Dumped riprap         |   |
| Grouted riprap        | X |
| Gabions or mattresses |   |
| Concrete              |   |
| Paving                |   |
| Other                 |   |
| None                  |   |

**ABUTMENT COMMENTS**

Insert comments about unusual bridge abutments:

Insert comments about unusual bridge abutments:

Recommendation :

**MBF – Inventory Inspection Form (Type 5)**

**Bridge ID** B01113LZ

**Bridge Name** Magapit Suspension Bridge

**Abutment Number** 2

| WING WALL TYPE   | L | R |
|------------------|---|---|
| Solid wall       | X | X |
| Reinforced earth |   |   |
| Protected slope  |   |   |
| Other            |   |   |
| None             |   |   |

| WING WALL MATERIAL    | L | R |
|-----------------------|---|---|
| Concrete              | X | X |
| Masonry               |   |   |
| Timber                |   |   |
| Gabions or mattresses |   |   |
| Other                 |   |   |

| WING WALL FOUNDATION TYPE   | L | R |
|-----------------------------|---|---|
| Spread footing              |   |   |
| Bored piles                 |   |   |
| Driven piles                |   |   |
| Other                       |   |   |
| None (attached to abutment) | X | X |
| Not known                   |   |   |

| WING WALL LENGTH |  |
|------------------|--|
| Left, (m)        |  |
| Right, (m)       |  |

**BRIDGE APPROACH**  
Overall length of approach, (m)

| TYPE OF APPROACH  |                          |
|---|--------------------------|
| At grade  | <input type="checkbox"/> |
| Embankment up to 3.0 meters high, no retaining structures           | <input type="checkbox"/> |
| Embankment in excess of 3.0 meters high, no retaining structures    | <input type="checkbox"/> |
| Embankment up to 3.0 meters high, retained at road shoulders        | <input type="checkbox"/> |
| Embankment in excess of 3.0 meters high, retained at road shoulders | X                        |

**BRIDGE APPROACH COMMENTS**  
Insert comments about unusual or long bridge approaches:



## **APPENDIX J**

# **GEOMETRICAL INSPECTION FORM**



Department of Public Works and Highways  
**BRIDGE MANAGEMENT SYSTEM**

**GEOMETRICAL INSPECTION FORM (TYPE 6)**

***MAGAPIT BRIDGE***

Deptment of Public Works and Highways  
**BRIDGE MANAGEMENT SYSTEM**  
**FOR**  
**MAGAPIT BRIDGE**  
**GEOMETRICAL INSPECTION FORM (TYPE 6)**

| <b>LOCATION</b>        |                |
|------------------------|----------------|
| BRIDGE ID              |                |
| Bridge Name            | Magapit Bridge |
| Road Name              |                |
| Road ID                |                |
| Section ID             |                |
| Location               |                |
|                        |                |
| Region                 |                |
| Province               |                |
| Congressional District |                |
| Engineering District   |                |
| Municipality           |                |
| Barangay               |                |
| River Name             |                |

| <b>SUMMARY</b>   |
|--|
| <p>COMMENTS:</p> <div style="border: 1px solid black; height: 400px; margin-top: 10px;"></div> |

*Insert Name, Position, Signature and Date of Signing*  
*Initial all other pages*

Bridge ID.

Bridge Name

**Leveling**

| Element              | Place | 2014 | 2017 | Difference | Remark |
|----------------------|-------|------|------|------------|--------|
| A1                   | Left  |      |      |            |        |
|                      | Right |      |      |            |        |
| P1                   | Left  |      |      |            |        |
|                      | Right |      |      |            |        |
| P2                   | Left  |      |      |            |        |
|                      | Right |      |      |            |        |
| P3                   | Left  |      |      |            |        |
|                      | Right |      |      |            |        |
| A2                   | Left  |      |      |            |        |
|                      | Right |      |      |            |        |
| Longitudal Alignment | 1     | Left |      |            |        |
| Longitudal Alignment | 2     | Left |      |            |        |
| Longitudal Alignment | 3     | Left |      |            |        |
| Longitudal Alignment | 4     | Left |      |            |        |
| Longitudal Alignment | 5     | Left |      |            |        |
| Longitudal Alignment | 6     | Left |      |            |        |
| Longitudal Alignment | 7     | Left |      |            |        |
| Longitudal Alignment | 8     | Left |      |            |        |

| Element              | No. | place | 2014 | 2017 | Difference | Remark |
|----------------------|-----|-------|------|------|------------|--------|
| Longitudal Alignment | 9   | Left  |      |      |            |        |
| Longitudal Alignment | 10  | Left  |      |      |            |        |
| Longitudal Alignment | 1   | Right |      |      |            |        |
| Longitudal Alignment | 2   | Right |      |      |            |        |
| Longitudal Alignment | 3   | Right |      |      |            |        |
| Longitudal Alignment | 4   | Right |      |      |            |        |
| Longitudal Alignment | 5   | Right |      |      |            |        |
| Longitudal Alignment | 6   | Right |      |      |            |        |
| Longitudal Alignment | 7   | Right |      |      |            |        |
| Longitudal Alignment | 8   | Right |      |      |            |        |
| Longitudal Alignment | 9   | Right |      |      |            |        |
| Longitudal Alignment | 10  | Right |      |      |            |        |
|                      |     |       |      |      |            |        |
|                      |     |       |      |      |            |        |
|                      |     |       |      |      |            |        |
|                      |     |       |      |      |            |        |
|                      |     |       |      |      |            |        |

Bridge ID.

Bridge Name

**Vertical Slope**

Tower 1

| Mesure                | Place | 2014<br>(original) | 2017 | Difference | Remark |
|-----------------------|-------|--------------------|------|------------|--------|
| Angle<br>(Vertical)   | V1    |                    |      |            |        |
|                       | V2    |                    |      |            |        |
|                       | V3    |                    |      |            |        |
|                       | V4    |                    |      |            |        |
| Angle<br>(Horizontal) | H1    |                    |      |            |        |
|                       | H2    |                    |      |            |        |
|                       | H3    |                    |      |            |        |
|                       | H4    |                    |      |            |        |
| Length                | L1    |                    |      |            |        |
|                       | L2    |                    |      |            |        |
|                       | L3    |                    |      |            |        |
|                       | L4    |                    |      |            |        |
| Hight                 | K1    |                    |      |            |        |
|                       | K2    |                    |      |            |        |
|                       | K3    |                    |      |            |        |
|                       | K4    |                    |      |            |        |

| Element       | No. | 2014<br>(original) | 2017 | Difference | Remark                 |
|---------------|-----|--------------------|------|------------|------------------------|
| Raise         | 1   |                    |      |            | $K1'+\text{Tan}V1*L1'$ |
|               | 2   |                    |      |            | $K2'+\text{Tan}V2*L2'$ |
|               | 3   |                    |      |            | $K3'+\text{Tan}V3*L3'$ |
|               | 4   |                    |      |            | $K4'+\text{Tan}V4*L4'$ |
| Raise Average | 2   |                    |      |            |                        |
| Slope         | 3   |                    |      |            | $L1'/\text{Tan}H1'$    |
|               | 4   |                    |      |            | $L2'/\text{Tan}H2'$    |
|               | 5   |                    |      |            | $L3'/\text{Tan}H3'$    |
|               | 6   |                    |      |            | $L4'/\text{Tan}H4'$    |
| Slope Average | 7   |                    |      |            |                        |
|               |     |                    |      |            |                        |
|               |     |                    |      |            |                        |
|               |     |                    |      |            |                        |
|               |     |                    |      |            |                        |

Bridge ID.

Bridge Name

**Vertical Slope**

Tower 2

| Mesure                | Place | 2014<br>(original) | 2017 | Difference | Remark |
|-----------------------|-------|--------------------|------|------------|--------|
| Angle<br>(Vertical)   | V8    |                    |      |            |        |
|                       | V9    |                    |      |            |        |
|                       | V10   |                    |      |            |        |
|                       | V11   |                    |      |            |        |
| Angle<br>(Horizontal) | H8    |                    |      |            |        |
|                       | H9    |                    |      |            |        |
|                       | H10   |                    |      |            |        |
|                       | H11   |                    |      |            |        |
| Length                | L8    |                    |      |            |        |
|                       | L9    |                    |      |            |        |
|                       | L10   |                    |      |            |        |
|                       | L11   |                    |      |            |        |
| Hight                 | K8    |                    |      |            |        |
|                       | K9    |                    |      |            |        |
|                       | K10   |                    |      |            |        |
|                       | K11   |                    |      |            |        |

| Element       | No. | 2014<br>(original) | 2017 | Difference | Remark                |
|---------------|-----|--------------------|------|------------|-----------------------|
| Raise         | 8   |                    |      |            | $K8'+\tan V8'*L8'$    |
|               | 9   |                    |      |            | $K9'+\tan V9'*L9'$    |
|               | 10  |                    |      |            | $K10'+\tan V10'*L10'$ |
|               | 11  |                    |      |            | $K11'+\tan V11'*L11'$ |
| Raise Average |     |                    |      |            |                       |
| Slope         | 8   |                    |      |            | $L8'/\tan H8'$        |
|               | 9   |                    |      |            | $L9'/\tan H9'$        |
|               | 10  |                    |      |            | $L10'/\tan H10'$      |
|               | 11  |                    |      |            | $L11'/\tan H11'$      |
| Slope Average |     |                    |      |            |                       |
|               |     |                    |      |            |                       |
|               |     |                    |      |            |                       |
|               |     |                    |      |            |                       |
|               |     |                    |      |            |                       |

Bridge ID.

Bridge Name

**Bearing** For S1

| Mesure |       | Place |        | 2014<br>(original) | 2017 | Difference | Remark |
|--------|-------|-------|--------|--------------------|------|------------|--------|
| A1     | Left  | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
|        |       | M4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        | Right | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
| M4     |       | Right |        |                    |      |            |        |
| Ave    |       |       |        |                    |      |            |        |

| Mesure |       | Place |        | 2014<br>(original) | 2017 | Difference | Remark |
|--------|-------|-------|--------|--------------------|------|------------|--------|
| P1     | Left  | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
|        |       | M4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        | Right | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
| M4     |       | Right |        |                    |      |            |        |
| Ave    |       |       |        |                    |      |            |        |

Bridge ID.

Bridge Name

**Bearing** For S2

| Mesure |       | Place |        | 2014<br>(original) | 2017 | Difference | Remark |
|--------|-------|-------|--------|--------------------|------|------------|--------|
| P1     | Left  | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
|        |       | M4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        | Right | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
| M4     |       | Right |        |                    |      |            |        |
| Ave    |       |       |        |                    |      |            |        |

| Mesure |       | Place |        | 2014<br>(original) | 2017 | Difference | Remark |
|--------|-------|-------|--------|--------------------|------|------------|--------|
| P2     | Left  | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
|        |       | M4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        | Right | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
| M4     |       | Right |        |                    |      |            |        |
| Ave    |       |       |        |                    |      |            |        |

Bridge ID.

Bridge Name

**Bearing** For S3

| Mesure |       | Place |        | 2014<br>(original) | 2017 | Difference | Remark |
|--------|-------|-------|--------|--------------------|------|------------|--------|
| P2     | Left  | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
|        |       | M4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        | Right | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
| M4     |       | Right |        |                    |      |            |        |
| Ave    |       |       |        |                    |      |            |        |

| Mesure |       | Place |        | 2014<br>(original) | 2017 | Difference | Remark |
|--------|-------|-------|--------|--------------------|------|------------|--------|
| P3     | Left  | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
|        |       | M4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        | Right | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
| M4     |       | Right |        |                    |      |            |        |
| Ave    |       |       |        |                    |      |            |        |

Bridge ID.

Bridge Name

**Bearing** For S4

| Mesure |       | Place |        | 2014<br>(original) | 2017 | Difference | Remark |
|--------|-------|-------|--------|--------------------|------|------------|--------|
| P3     | Left  | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
|        |       | M4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        | Right | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
| M4     |       | Right |        |                    |      |            |        |
| Ave    |       |       |        |                    |      |            |        |

| Mesure |       | Place |        | 2014<br>(original) | 2017 | Difference | Remark |
|--------|-------|-------|--------|--------------------|------|------------|--------|
| A2     | Left  | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
|        |       | M4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        | Right | H1    | A1side |                    |      |            |        |
|        |       | H2    | A2side |                    |      |            |        |
|        |       | H3    | Left   |                    |      |            |        |
|        |       | H4    | Right  |                    |      |            |        |
|        |       | Ave   |        |                    |      |            |        |
|        |       | M1    | A1side |                    |      |            |        |
|        |       | M2    | A2side |                    |      |            |        |
|        |       | M3    | Left   |                    |      |            |        |
| M4     |       | Right |        |                    |      |            |        |
| Ave    |       |       |        |                    |      |            |        |

Bridge ID.

Bridge Name

**Expansion Joint**

| Mesure |         | Place |  | 2014<br>(original) | 2017 | Difference | Remark |
|--------|---------|-------|--|--------------------|------|------------|--------|
| A1     | A1 side | 1     |  |                    |      |            |        |
|        |         | 2     |  |                    |      |            |        |
|        |         | 3     |  |                    |      |            |        |
|        |         | 4     |  |                    |      |            |        |
|        |         | 5     |  |                    |      |            |        |
|        | A2 side | 1     |  |                    |      |            |        |
|        |         | 2     |  |                    |      |            |        |
|        |         | 3     |  |                    |      |            |        |
|        |         | 4     |  |                    |      |            |        |
|        |         | 5     |  |                    |      |            |        |

| Mesure |         | Place |  | 2014<br>(original) | 2017 | Difference | Remark |
|--------|---------|-------|--|--------------------|------|------------|--------|
| P2     | A1 side | 1     |  |                    |      |            |        |
|        |         | 2     |  |                    |      |            |        |
|        |         | 3     |  |                    |      |            |        |
|        |         | 4     |  |                    |      |            |        |
|        |         | 5     |  |                    |      |            |        |
|        | A2 side | 1     |  |                    |      |            |        |
|        |         | 2     |  |                    |      |            |        |
|        |         | 3     |  |                    |      |            |        |
|        |         | 4     |  |                    |      |            |        |
|        |         | 5     |  |                    |      |            |        |

|    |         |   |  |  |  |  |  |
|----|---------|---|--|--|--|--|--|
| P1 | A1 side | 1 |  |  |  |  |  |
|    |         | 2 |  |  |  |  |  |
|    |         | 3 |  |  |  |  |  |
|    |         | 4 |  |  |  |  |  |
|    |         | 5 |  |  |  |  |  |
|    | A2 side | 1 |  |  |  |  |  |
|    |         | 2 |  |  |  |  |  |
|    |         | 3 |  |  |  |  |  |
|    |         | 4 |  |  |  |  |  |
|    |         | 5 |  |  |  |  |  |

|    |         |   |  |  |  |  |  |
|----|---------|---|--|--|--|--|--|
| P3 | A1 side | 1 |  |  |  |  |  |
|    |         | 2 |  |  |  |  |  |
|    |         | 3 |  |  |  |  |  |
|    |         | 4 |  |  |  |  |  |
|    |         | 5 |  |  |  |  |  |
|    | A2 side | 1 |  |  |  |  |  |
|    |         | 2 |  |  |  |  |  |
|    |         | 3 |  |  |  |  |  |
|    |         | 4 |  |  |  |  |  |
|    |         | 5 |  |  |  |  |  |

Bridge ID.

Bridge Name

**Expansion Joint**

| Mesure |         | Place |  | 2014<br>(original) | 2017 | Difference | Remark |
|--------|---------|-------|--|--------------------|------|------------|--------|
| A2     | A1 side | 1     |  |                    |      |            |        |
|        |         | 2     |  |                    |      |            |        |
|        |         | 3     |  |                    |      |            |        |
|        |         | 4     |  |                    |      |            |        |
|        |         | 5     |  |                    |      |            |        |
|        | A2 side | 1     |  |                    |      |            |        |
|        |         | 2     |  |                    |      |            |        |
|        |         | 3     |  |                    |      |            |        |
|        |         | 4     |  |                    |      |            |        |
|        |         | 5     |  |                    |      |            |        |
|        |         |       |  |                    |      |            |        |
|        |         |       |  |                    |      |            |        |
|        |         |       |  |                    |      |            |        |
|        |         |       |  |                    |      |            |        |
|        |         |       |  |                    |      |            |        |
|        |         |       |  |                    |      |            |        |
|        |         |       |  |                    |      |            |        |
|        |         |       |  |                    |      |            |        |
|        |         |       |  |                    |      |            |        |
|        |         |       |  |                    |      |            |        |

| Mesure |  | Place |  | 2014<br>(original) | 2017 | Difference | Remark |
|--------|--|-------|--|--------------------|------|------------|--------|
|        |  |       |  |                    |      |            |        |
|        |  |       |  |                    |      |            |        |
|        |  |       |  |                    |      |            |        |
|        |  |       |  |                    |      |            |        |
|        |  |       |  |                    |      |            |        |
|        |  |       |  |                    |      |            |        |
|        |  |       |  |                    |      |            |        |
|        |  |       |  |                    |      |            |        |
|        |  |       |  |                    |      |            |        |
|        |  |       |  |                    |      |            |        |

