

Appendix VII – Recommended Design and Details for Classes II & III Minor Works

GENERAL NOTES :

1. The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)
2. All works shall comply with the following CoP/ standards:
 - Building (Construction) Regulations
 - Code of Practice for the Structural Use of Steel 2005
 - Geoguide 1 : Guide to Retaining Wall Design, 2nd Edition
3. All structural steel to be grade S275.
4. Minimum allowable ground pressure to be 50 kN/m².

Design Loads :

1. Surcharge = 5 kN/m²

Design Soil Parameter :

$C = 0 \text{ kPa}$, $\phi = 30^\circ$, $K_a = 0.35$, $K_p = 3.00$

PREPARATION WORKS :

1. Obtain and investigate all underground utilities drawings/ information prior to the commencement of works.
2. Inform the underground utilities companies (if required) prior to the commencement of works.

SAFETY AND PRECAUTIONARY MEASURES :

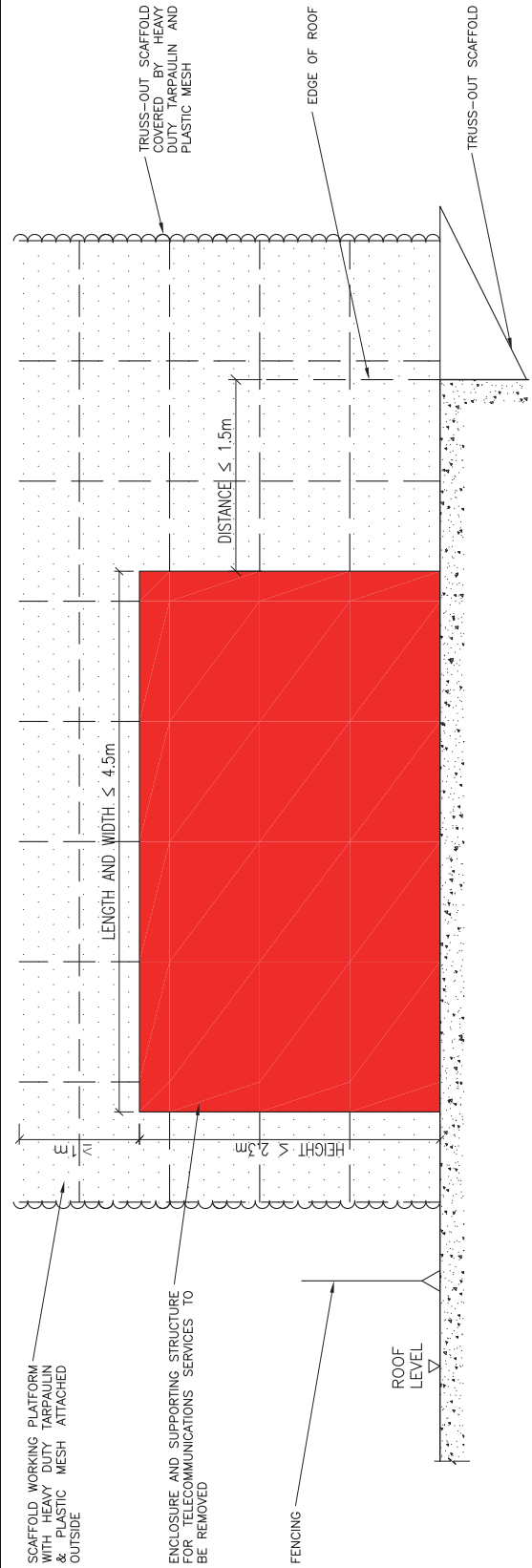
1. Fence-off the working area from the public. Diversion arrangement shall be taken if necessary.
2. For trench excavation, reference shall be made to "Guide to Trench Excavations" published by Utilities Technical Liaison Committee – Highways Department and Geotechnical Engineering Office – Civil Engineering Department (February 2003)

WORKING PROCEDURES :

1. Excavate to the required depth.
2. Compact the soil base and lay plain concrete (25mm thick) as blinding layer.
3. Carry out the required work in the excavated trench (i.e. underground drain, footings and etc., please refer to the relevant minor works item for working procedures).
4. Carry out the backfilling works and reinstatement works to the top surface.

Remarks: The works are not carried out within area number 1 or 3 of the scheduled areas.

MINOR WORKS ITEM 2.11	EXCAVATION WORKS ASSOCIATED WITH THE CARRYING OUT OF OTHER MINOR WORKS OR DESIGNATED EXEMPTED WORKS
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GENERAL NOTES :

The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)

PREPARATION WORKS :

1. Obtain the existing design drawings/ information for reference prior to the commencement of works.
2. Carry out condition survey of the parent structure/ existing condition prior to the commencement of works.
3. Obtain the original design of the approved structure for reference of any required reinstatement works.

SAFETY AND PRECAUTIONARY MEASURES :

1. Fence-off the working area from the public. Diversion arrangement shall be taken if necessary.
2. Bamboo scaffolds details shall refer to the following figures as shown on drawing no. GN-1.
 - Figure 2 Truss-out bamboo scaffold
 - Figure 4 Working platform on a double-row bamboo scaffold

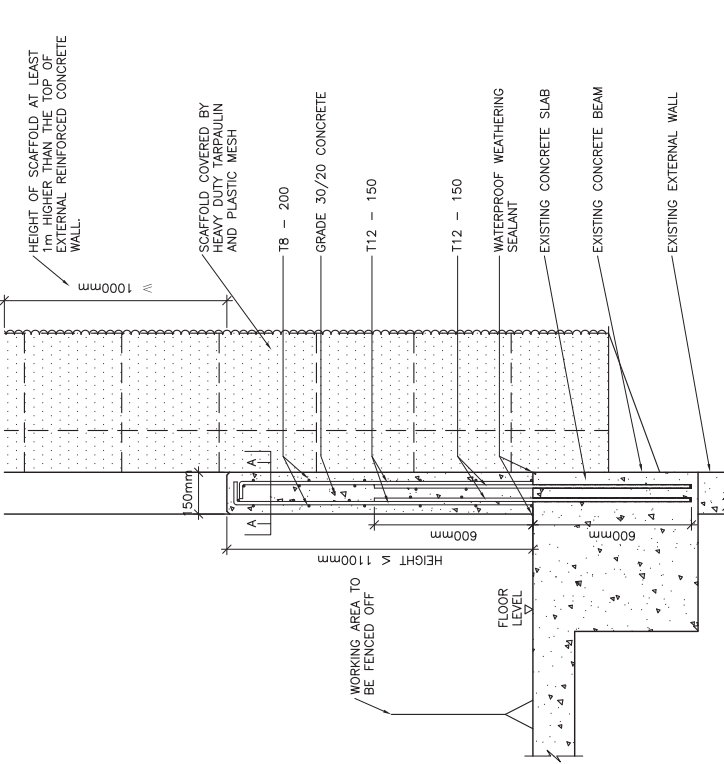
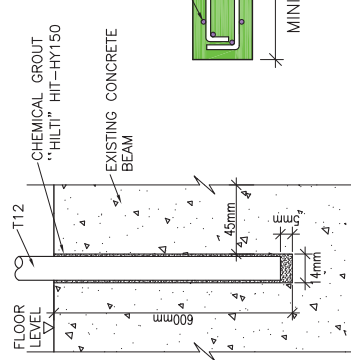
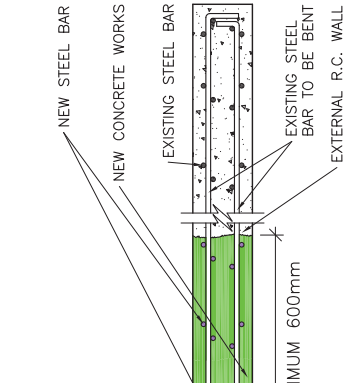
WORKING PROCEDURES :

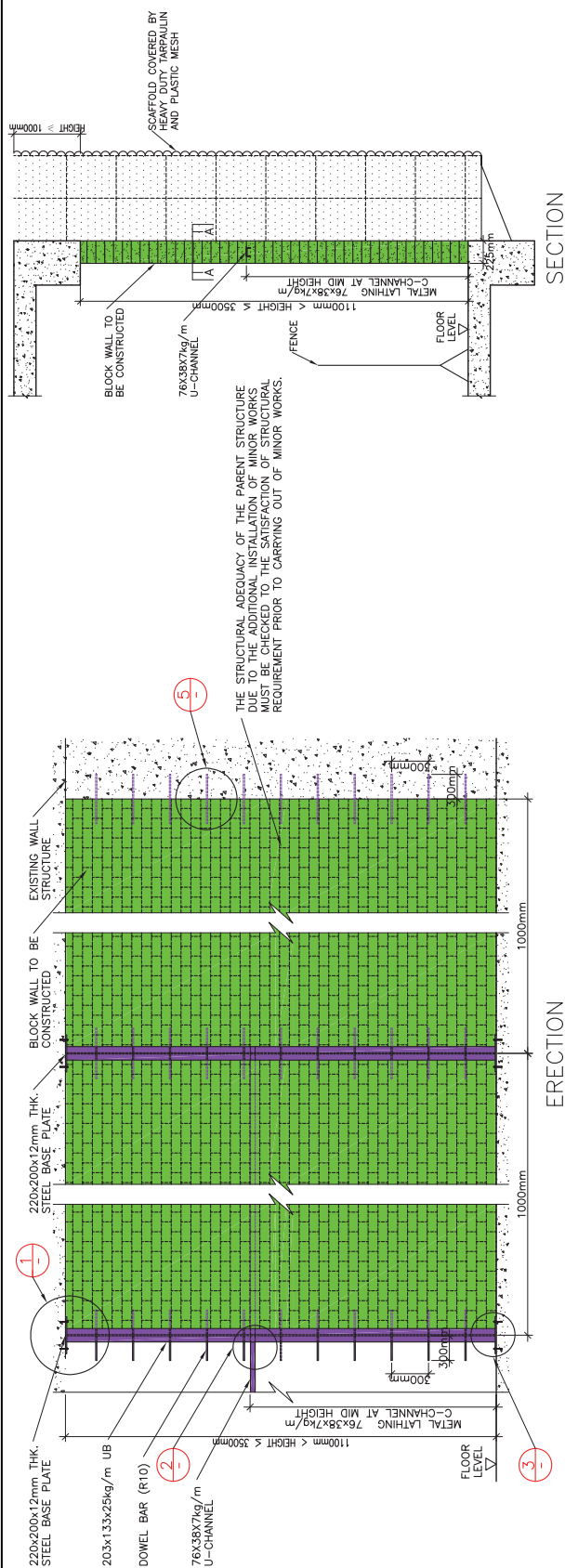
1. Disconnect all utilities prior to the removal of enclosure or cabinet of the telecommunication services.
2. Remove the enclosure or cabinet of the telecommunication services by releasing all fixing bolts if necessary.
3. Remove the telecommunication equipment.
4. Demolish the structure using mechanical hand held tools to cut the members into small pieces for construction waste disposal.
5. After removal of the structure, make good and reinstate the affected areas (including waterproofing) of the parent building.
6. Remove the bamboo scaffold and clean the site.

Remarks: This case excludes minor works item 3.8.

MINOR WORKS ITEM 2.12	REMOVAL OF RADIO BASE STATION FOR TELECOMMUNICATIONS SERVICES IN THE FORM OF AN ENCLOSURE OR EQUIPMENT CABINET TOGETHER WITH ITS SUPPORTING STRUCTURE LOCATED ON A ROOF OF A BUILDING
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Appendix VII – Recommended Design and Details for Classes II & III Minor Works

<div></div>	<div><p>TYPICAL DETAIL OF 150 THK. RC WALL (HEIGHT ≤ 1100mm)</p><div></div><div></div></div>	<div><p>GENERAL NOTES :</p><ol style="list-style-type: none">The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)All works shall comply with the following CoP/ standards:<ul style="list-style-type: none">Building (Construction) RegulationsCode of Practice for the Structural Use of Concrete 2004Code of Practice on Wind Effects in Hong Kong 2004All anchors bolt to be Hilti HIT-HY150 + T12 Rebar and shall be installed according to the manufacturer's specification.All concrete works shall comply with CS1.Existing concrete grade and minimum concrete cover to be Grade 30 and 40mm respectively.Steel reinforcement shall comply with CS2:1995 with min. yield stress of 460 N/mm² and shall be bent in accordance with BS 4466.All existing reinforcement for the parent members should not be damaged.Minimum anchorage and lap length are 600mm unless otherwise specified.<p>DESIGN LOAD :</p><ol style="list-style-type: none">Wind Load = 5.72 kN/m² with force coefficient of 2.0 (100m above site ground level)<p>PREPARATION WORKS :</p><ol style="list-style-type: none">Obtain the existing design drawings/ information for reference prior to the commencement of works.Carry out condition survey of the parent structure/ existing condition prior to the commencement of works.The existing parent structure must be checked to the satisfaction of structural adequacy prior to installation of minor works item.<p>SAFETY AND PRECAUTIONARY MEASURES :</p><ol style="list-style-type: none">Fence-off the working area from the public. Diversion arrangement shall be taken if necessary.Bamboo scaffolds details shall refer to the following figures as shown on drawing no. GN-1.<ul style="list-style-type: none">Figure 2 Truss-out bamboo scaffoldFigure 4 Working platform on a double-row bamboo scaffold<p>WORKING PROCEDURES :</p><p>A. Erection</p><ol style="list-style-type: none">Erect formwork and fix reinforcing bar for the external reinforced concrete wall.Preparation of hole for anchoring rebar to follow strictly with the manufacturer's recommendation and instruction.Concrete casting to the external reinforced concrete wall.24 hours after concrete casting, remove the formwork. Concrete curing until full strength is reached.Make good and reinstate the affected areas of the parent structure.Dismantle the bamboo scaffold and clean the site.<p>B. Alteration</p><ol style="list-style-type: none">Saw cut and hack off finishes/ concrete at the area requiring alteration using mechanical hand held tools to expose the steel bars.Bend the existing steel bars and fix the new bars to form a new edge of the wall.Pour concrete after erect formwork and fix new reinforcing bar.24 hours after concrete casting, remove the formwork. Concrete curing until full strength is reached.Make good and reinstate the affected areas of the parent structure.Dismantle the bamboo scaffold and clean the site.<p>C. Removal</p><ol style="list-style-type: none">Break down the concrete top down into small pieces using mechanical hand held tools to expose the steel bars.Cut the exposed steel bars into manageable size for construction waste disposal.Repeat the above steps 1 and 2 until the complete removal of the reinforced concrete wall.Make good and reinstate the affected areas of the parent structure.Dismantle the bamboo scaffold and clean the site.</div>
	<p>MINOR WORKS ITEM 2.13</p>	<p>ERECTION, ALTERATION OR REMOVAL OF EXTERNAL REINFORCED CONCRETE WALL (OTHER THAN A LOAD BEARING WALL) OF A BUILDING</p>



GENERAL NOTES :

1. The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)
2. All works shall comply with the following CoP/ standards:
 - Building (Construction) Regulations
 - Code of Practice on Wind Effects in Hong Kong 2004
 - Code of Practice for Structural Use of Steel 2005
 - BS 5628 Code of Practice for the Use of Masonry : Part 1 Structural Use of Unreinforced Masonry
 - Code of Practice for Demolition of Buildings 2004
 - Specifications and Method Statements for YONG AAC Block Wall
3. All structural steel to be grade S275 class 1 to BS EN 10025 and shall be hot dip galvanized to BS EN ISO 1461.
4. All connections to be 3 mm fillet weld all round or butt weld with weld strength, $p_w = 220 \text{ N/mm}^2$ to BS EN 1011 and all electrodes to BS EN ISO 2560.
5. All anchor bolts to be Hilti HSC-AR M12x60 and shall be installed according to the manufacturer's specification.
6. All YONG AAC blocks shall comply with BS6073-1 as solid block with the minimum compressive strength of 4 N/mm² and the density of 650 kg/m³.
7. Existing concrete grade is assumed to be Grade 20.
8. Mortar Designation shall be Class (ii) to Table 1 of BS5628-1 with the mean compressive strength at 28 days of 4.5 N/mm² by site tests.

- PREPARATION WORKS :

1. Obtain the existing design drawings/ information of the signboard for reference.
2. Carry out condition survey of the parent structure/ existing condition prior to the commencement of works.
3. Obtain the original design of the approved structure for reference of any required reinstatement works.

- SAFETY AND PRECAUTIONARY MEASURES :

1. Fence-off the working area from the public. Diversion arrangement shall be taken if necessary.
2. Bamboo scaffolds details shall refer to the following figure as shown on drawing no. GN-1.
 - Figure 2 Truss-out bamboo scaffold
 - Figure 4 Working platform on a double-row bamboo scaffold

- WORKING PROCEDURES : :

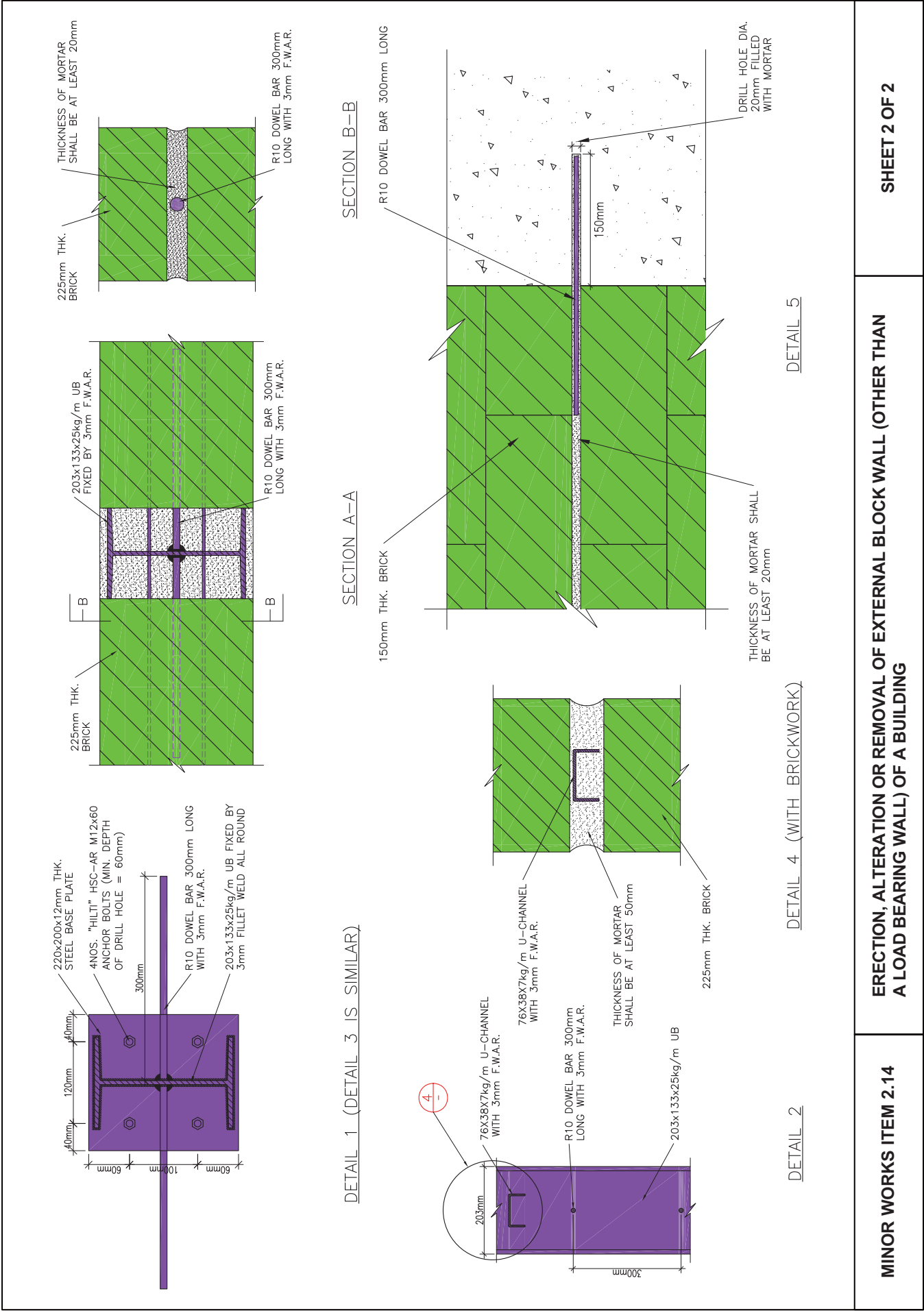
- A. Erection
 1. Install the external block wall as per the drawing.
 2. Make good and reinstaite the affected areas of the parent building.
 3. Dismantle the bamboo scaffold and clean the site.
- B. Alteration (for exhaust fan installation at top opening size 300x300mm)
 1. Mark up the opening to be made for exhaust fan installation (right)
 2. Saw cut the rendering/ plastering.
 3. Break out the brick work of the setting out area using hand held h
 4. Make good of the edge of the opening and install the exhaust fan.
 5. Make good and reinstaite the affected areas of the parent building.
 6. Dismantle the bamboo scaffold and clean the site.

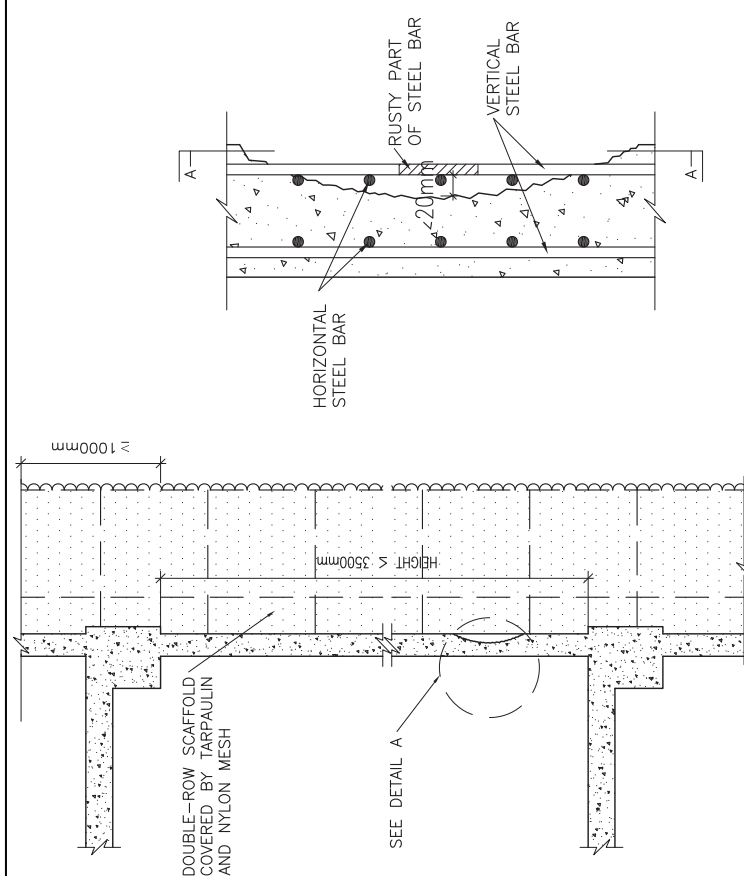
- C. Removal
 1. Remove the brickwork using mechanical hand-held tools from top to bottom.
 2. Remove the top 300mm wall layer first and repeat layer by layer.
 3. Cut down the steel posts into small pieces for construction waste disposal.
 4. Make good and reinstate the affected areas of the parent building.
 5. Dismantle the bamboo scaffold and clean the site.

MINOR WORKS ITEM 2.14

ERECTION, ALTERATION OR REMOVAL OF EXTERNAL BLOCK WALL (OTHER THAN A LOAD BEARING WALL) OF A BUILDING

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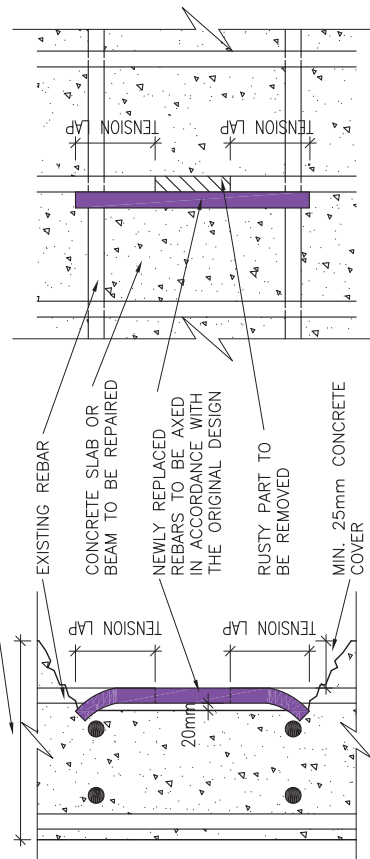




DETAIL A – REPAIRING OF DETERIORATED REBAR AT R.C. WALL

REPAIR OF EXTERNAL R.C. WALL

EXISTING WALL THICKNESS



REPLACEMENT OF DETERIORATED REBAR AT R.C. WALL

SECTION A-A

GENERAL NOTES :

1. The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)
2. All works shall comply with the following CoP/ standards:
 - Building (Construction) Regulations
 - Code of Practice for the Structural Use of Concrete 2004
3. All concrete works shall comply with CS1.
4. Concrete grade and the minimum cover shall be grade 30 and 25 mm respectively.
5. Steel reinforcement to be high yield type II deformed bar with the characteristic strength of 460 N/mm² and comply with CS2:1995.
6. Minimum anchorage and lap length are 48 x diameter of the existing rebar unless otherwise specified.
7. Minimum FRP for the external wall to be repaired = 1 hr unless otherwise specified.

PREPARATION WORKS :

1. Obtain existing design drawings/ information for reference prior to the commencement of works. (To check the fire-resisting of the concrete wall and reinforced concrete details.)
2. Carry out condition survey of the parent structure/ existing condition prior to the commencement of works.

SAFETY AND PRECAUTIONARY MEASURES :

1. Fence-off the working area from the public. Diversion arrangement shall be taken if necessary.
2. Bamboo scaffolds details shall refer to the following figures as shown on drawing no. GN-1.
 - Figure 1 Double-row bamboo scaffold and working platform over pavement
 - Figure 4 Working platform on a double-row bamboo scaffold

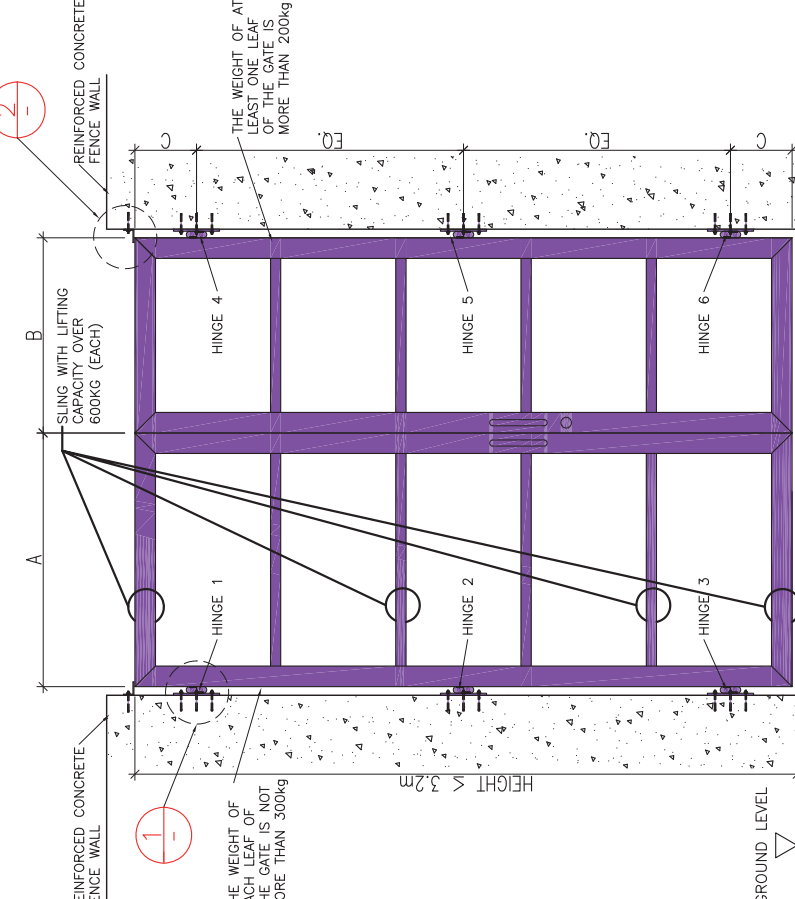
WORKING PROCEDURES :

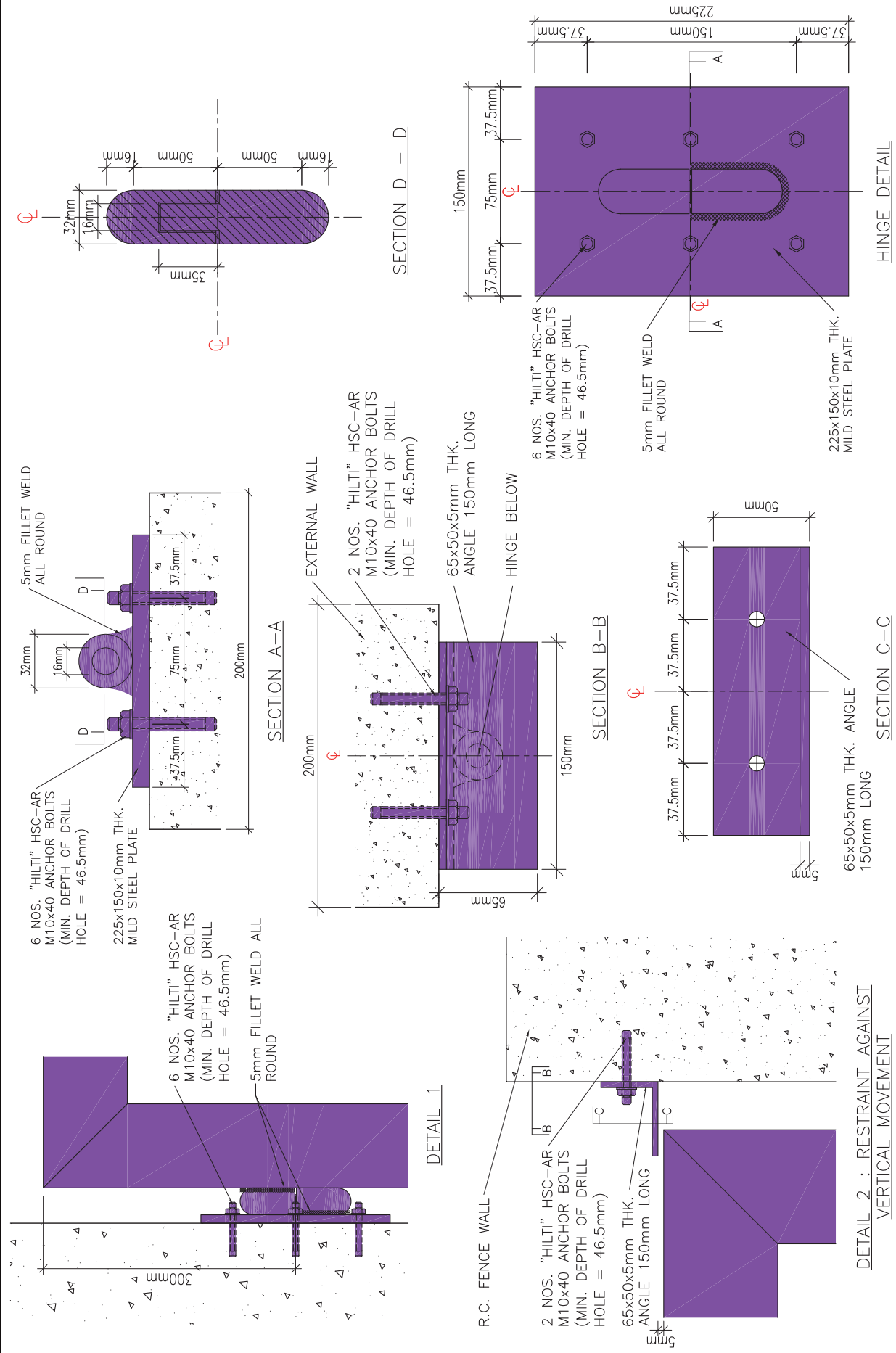
1. Hack off finishes/concrete at the repair area using hand held mechanical tools to expose the steel bar and sound concrete substrate.
2. Remove rust on the steel bar and apply primer to steel bar. If the corroded steel bar is found substantially less than its original size after derusting, replacement of the steel bar with the same size is required. The lap length for the existing/ new steel bar shall be dependent on the type of repair mortar adopted and shall be in accordance with the supplier's instructions.
3. Apply proprietary specialized repair mortar system according to supplier's instructions.
4. Apply procedure 1 to 3 to both vertical and horizontal rebars.
5. Make good and reinstate the affected areas of the parent building.
6. Remove the bamboo scaffold and clean the site.

MINOR WORKS ITEM 2.15

REPAIR OF EXTERNAL REINFORCED CONCRETE WALL (OTHER THAN A LOAD BEARING WALL) OF A BUILDING

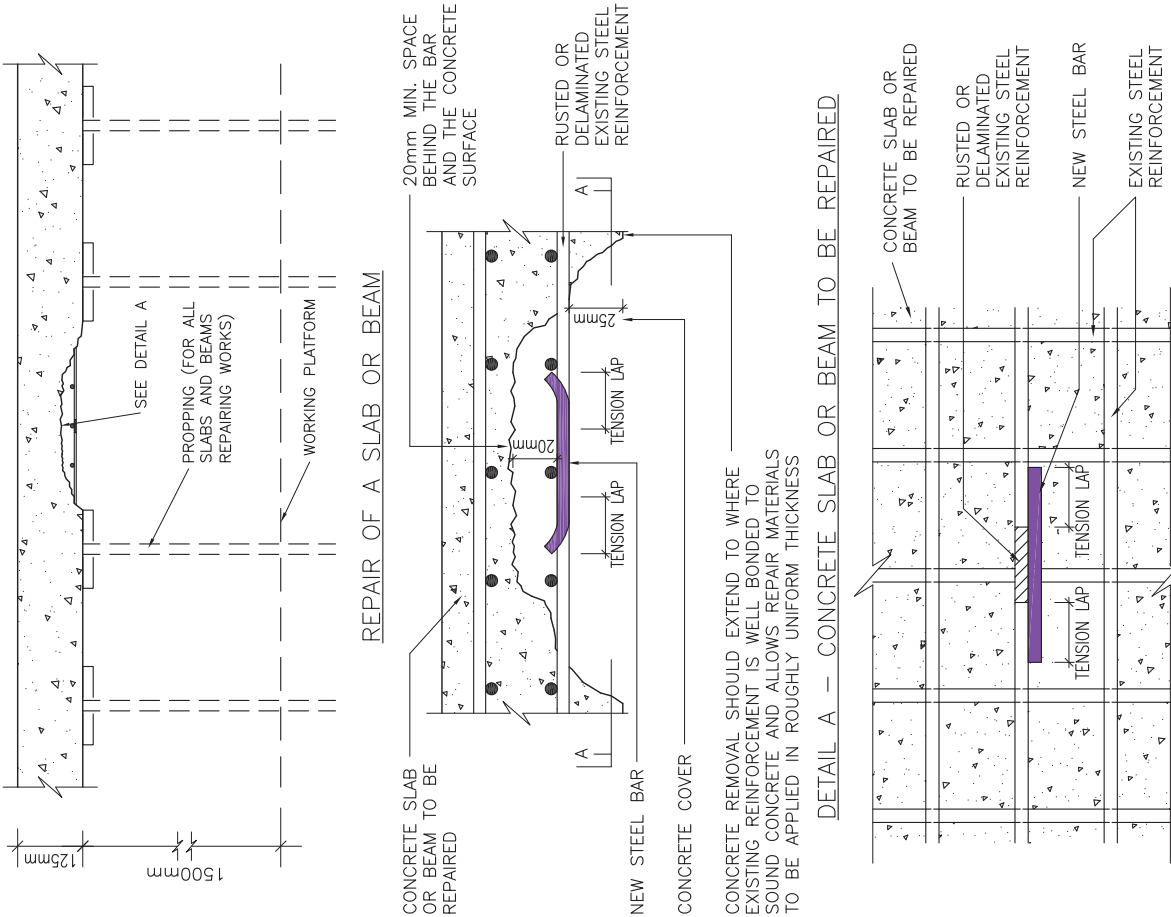
Appendix VII – Recommended Design and Details for Classes II & III Minor Works

<div><p>Diagram illustrating the recommended design and details for a metal gate at a fence wall or entrance to a building. The gate is shown in two states: closed (left) and open (right). The gate is supported by hinges (1-6) and has a lifting device at the top. Dimensions A, B, and C are indicated. Notes specify the weight of the gate leaf and the capacity of the lifting device.</p></div>	<p>GENERAL NOTES :</p> <ol style="list-style-type: none">The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)All works shall comply with the following CoP/ standards:<ul style="list-style-type: none">Building (Construction) RegulationsCode of Practice on Wind Effects in Hong Kong 2004Code of Practice for the Structural Use of Steel 2005Code of Practice for the Structural Use of Concrete 2004All structural steel to be grade S275 class 1 to BS EN 10025 and shall be hot dip galvanized to BS EN ISO 1461.All connections to be 5 mm fillet weld all round with weld strength, $p_w = 220 \text{ N/mm}^2$ to BS EN 1011 and all electrodes to BS EN ISO 2560.All anchor bolts to be Hilti HSC-AR M10x40 and shall be installed according to the manufacturer's specification.Concrete grade of the existing reinforced concrete wall shall be Grade 30 with a minimum thickness of 200mm. <p>DESIGN DIMENSIONS :</p> <p>A = 2m, B = 1.2m, C = 300mm</p> <p>DESIGN LOADS :</p> <ol style="list-style-type: none">Dead Load = 300kg/LeafWind Load = 1.82kN/m^2 with force coeff. 2.0 (5m above site ground level) <p>PREPARATION WORKS :</p> <ol style="list-style-type: none">Obtain the existing design drawings/ information for reference prior to the commencement of works.Carry out condition survey of the parent structure/ existing condition to ensure it is structurally capable to hold the metal gate prior to the commencement of works.Disconnect the electric locking device (if any) prior to the commencement of works. <p>SAFETY AND PRECAUTIONARY MEASURES :</p> <ol style="list-style-type: none">Fence-off the working area from the public. Diversion arrangement shall be taken if necessary.The use of lifting device shall be in accordance with relevant Code of Practice/ Guidance Notes issued by the Labour Department. <p>WORKING PROCEDURES :</p> <p>A. Erection</p> <ol style="list-style-type: none">Install the metal gate as per the drawing.Check the gate to ensure if it can operate smoothly.Make good and reinstate the affected areas of the parent structure and clean the site. <p>B. Alteration or Repair</p> <ol style="list-style-type: none">Fix the lifting device(s) onto a secure point above the metal gate.Temporary remove the metal gate by using lifting device(s).Alter or repair the member(s) of the metal gate.Erect the metal gate by the lifting device(s).Make good and reinstate the affected areas of the parent structure and clean the site.	<p>MINOR WORKS ITEM 2.16</p> <p>ERECTION, ALTERATION OR REPAIR OF METAL GATE AT A FENCE WALL OR AT AN ENTRANCE TO A BUILDING</p> <p>SHEET 1 OF 2</p>
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MINOR WORKS ITEM 2.16	ERECTION, ALTERATION OR REPAIR OF METAL GATE AT A FENCE WALL OR AT AN ENTRANCE TO A BUILDING	SHEET 2 OF 2
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Appendix VII – Recommended Design and Details for Classes II & III Minor Works

<div></div>		<p>GENERAL NOTES :</p> <ol style="list-style-type: none">1. The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)2. All works shall comply with the following CoP/ standards:<ul style="list-style-type: none">• Building (Construction) Regulations• Code of Practice for Structural Use of Concrete 2004 (2nd Edition)• Code of Practice for Fire Resisting Construction 1996• Concrete shall comply with CS1: 1990• BS 5975 Code of Practice for Falsework <p>PREPARATION WORKS :</p> <ol style="list-style-type: none">1. Obtain the existing design drawings/ information for reference of FRP, concrete cover, concrete strength, steel bar dimension & etc. prior to the commencement of works.2. Carry out condition survey of the parent structure/ existing condition prior to the commencement of works.3. All props should be adequately supported. Points of contact between props and underlying structural slabs/ beams should comprise of base plates resting on distributing members to ensure not exceeding their design capacities. <p>SAFETY AND PRECAUTIONARY MEASURES :</p> <ol style="list-style-type: none">1. Fence-off the working area from the public. Diversion arrangement shall be taken if necessary.2. Erect propping system according to the supplier's instruction to the beam/ slab to be repaired.3. Working platform details shall refer to the drawing no. GN-2. <p>WORKING PROCEDURES :</p> <ol style="list-style-type: none">1. Hack off finishes/ concrete at the repair area by hand held mechanical tools to expose the steel bar and sound concrete substrate.2. Remove rust on steel bar and apply primer to steel bar. If the corroded steel bar is found substantially less than its original size after derusting, replacement of the steel bar with the same size is required. The lap length for the existing/ new steel bar shall be dependent on the type of repair mortar adopted and shall be in accordance with supplier's instructions.3. Apply proprietary repair mortar system according to the manufacturer's instructions.4. Formworks may be used where necessary.5. Remove the formworks after the period specified by the supplier of repair mortar.6. Remove the proppings and working platform and clean the site.	
<p>MINOR WORKS ITEM 2.17</p>		<p>REPAIR OF SLAB OR BEAM (OTHER THAN A FLAT SLAB, CANTILEVERED BEAM, RIBBED SLAB, WAFFLE SLAB, PRE-STRESSED BEAM, POST-TENSIONED BEAM, CANTILEVERED BEAM, TRANSFER PLATE OR TRANSFER BEAM) IN ACCORDANCE WITH THE ORIGINAL DESIGN</p>	

GENERAL NOTES :

1. The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)
2. All works shall comply with the following CoP/ standards:
 - Building (Construction) Regulations
 - Code of Practice on Wind Effects in Hong Kong 2004
 - Code of Practice for Structural Use of Steel 2005
3. All structural steel to be grade S275 to BS EN 10025 and shall be hot dip galvanized to BS EN ISO 1461.
4. All connections to be 5mm fillet weld all round or butt weld with weld strength, $p_w = 220 \text{ N/mm}^2$ unless otherwise specified.
5. All anchor bolts to be Hilti HSA-R-M20 and shall be installed according to the manufacturer's specification.
6. Existing concrete grade of column is assumed to be Grade 20 with a minimum thickness of 500mm.
7. All removal of existing concrete shall be carried out by using of hand-held tools carefully.
8. All existing reinforcement should not be damaged.
9. All steel members shall be protected with one coat of "UNITHERM 38091" fire resistance paint with thickness of 1.5mm ($Hp/A = 175$).
10. All banners should be made of non-combustible material.
11. Tolerances such as lack of fit, hole diameter and dimensions etc shall be allowed in accordance with the provision of "Code of Practice for the Structural Use of Steel 2005".

DESIGN LOADS :

1. Dead Load = 0.20 kN/m^2 (Cladding)
2. Live Load = 0.50 kN/m^2
3. Wind Load = 2.01 kN/m^2 with total pressure coeff. 2.0

PREPARATION WORKS:

1. Obtain the existing design drawings/ information of the signboard for reference.
2. Carry out condition survey of the parent structure/ existing condition prior to the commencement of works.
3. If the signboard consists of light emitting diodes, disconnect the power to the signboard before the commencement of works.
4. Obtain the original design of the approved structure for reference of any required reinstatement works.
5. The structural adequacy of the supporting parent structure due to the additional installation of minor works must be checked to the satisfaction of structural requirement prior to the carrying out of minor works.
6. Plastering or rendering should be removed to expose concrete face before installation of anchor bolts and base plate.

SAFETY AND PRECAUTIONARY MEASURES :

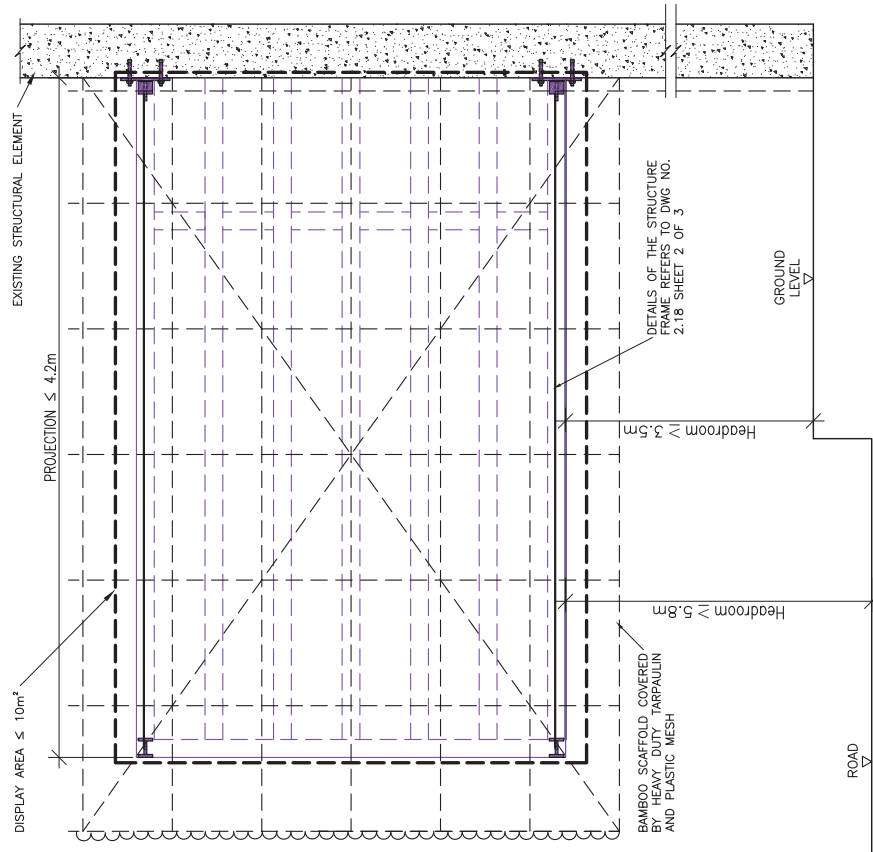
1. Fence-off the working area from the public. Diversion arrangement shall be taken if necessary.
2. Bamboo scaffolds details shall refer to the following figure as shown on drawing no. GN-1.
 - Figure 4 Working platform on a double-row bamboo scaffold
 - Figure 5 Bamboo scaffold for signboard

WORKING PROCEDURES :

- A. Erection
 1. Install the signboard as per the drawing.
 2. Make good and reinstate the affected areas of the parent building.
 3. Dismantle the bamboo scaffold and clean the site.
- B. Alteration
 1. Remove the display surface/ loose parts from the signboard.
 2. Remove the defective member and replace with a new member having the same size of the existing member.
 3. Make good and reinstate the affected areas of the parent building.
 4. Dismantle the bamboo scaffold and clean the site.

Remarks :

1. This case excludes minor works item 3.16.
2. The signboard does not consist of stone.

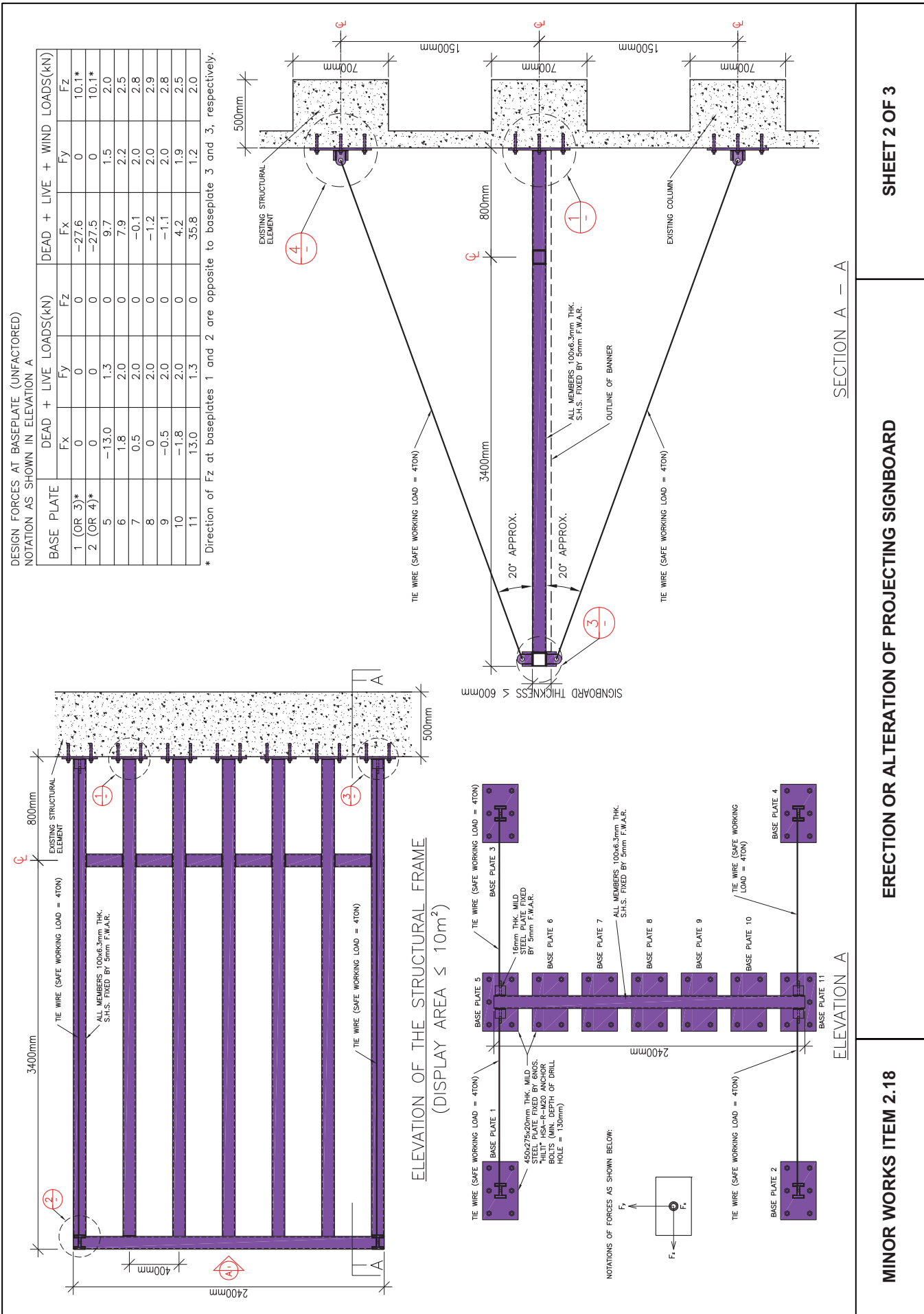


MINOR WORKS ITEM 2.18

ERECTION OR ALTERATION OF PROJECTING SIGNBOARD

SHEET 1 OF 3

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	<p>GENERAL NOTES :</p> <ol style="list-style-type: none"> The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.) All works shall comply with the following CoP/ standards: <ul style="list-style-type: none"> Building (Construction) Regulations Code of Practice for Wind Effects in Hong Kong 2004 Code of Practice for Structural Use of Steel 2005 All structural steel to be grade S275 to BS EN 10210 and shall be hot dip galvanized to BS EN ISO 1461. All connections to be 4mm fillet weld all round with weld strength, $p_w = 220 \text{ N/mm}^2$ unless otherwise specified. All anchor bolts to be Hilti HSA-R-M12 and shall be installed according to the manufacturer's specification. Existing concrete grade of wall is assumed to be Grade 20 with a minimum thickness 150mm. All removal of existing concrete shall be carried out by using of hand-held tools carefully. All existing reinforcement should not be damaged. All steel members shall be protected with one coat of "UNITHERM 38091" fire resistance paint with thickness of 1.5mm ($Hp/A = 175$). Tolerances such as lack of fit, hole diameter and dimensions etc shall be allowed in accordance with the provision of "Code of Practice for the Structural Use of Steel 2005". <p>DESIGN LOADS :</p> <ol style="list-style-type: none"> Dead Load = 0.2kN/m^2 Live Load = 1.00kN/m Wind Load = 2.86kN/m^2 with total pressure coeff. of 1.4 <p>PREPARATION WORKS :</p> <ol style="list-style-type: none"> Obtain the existing design drawings/ information of the signboard for reference. Carry out condition survey of the parent structure/ existing condition prior to the commencement of works. Obtain the original design of the approved structure for reference of any required reinstatement works. The structural adequacy of the supporting parent structure due to the additional installation of minor works must be checked to the satisfaction of structural requirement prior to the carrying out of minor works. Plastering or rendering should be removed to expose concrete face before installation of anchor bolts and base plate. <p>SAFETY AND PRECAUTIONARY MEASURES :</p> <ol style="list-style-type: none"> Fence-off the working area from the public. Diversion arrangement shall be taken if necessary. Bamboo scaffolds details shall refer to the following figures as shown on drawing no. GN-1. <ul style="list-style-type: none"> Figure 4 Working platform on a double-row bamboo scaffold Figure 5 Bamboo scaffold for signboard <p>WORKING PROCEDURES :</p> <p>A. Erection</p> <ol style="list-style-type: none"> Install the signage as per the drawing. <p>B. Alteration</p> <ol style="list-style-type: none"> Remove the defective members and replace with a new member by using the same size as per the existing member. Dismantle bamboo scaffold and clean the site. <p>REMARKS :</p> <ol style="list-style-type: none"> This case excludes item 10 of the Designated Exempted Works or minor works item 3.17. The signboard does not consist of stone if $H > 6\text{m}$. Display area $\leq 5\text{m}^2$ if the signboard has LED display.
	<p>Wall signboards at overhead of shopfront should have :</p> <ol style="list-style-type: none"> a minimum clearance of 2.5m from ground ; and be structurally independent without supporting any roller shutter or air-conditioning unit or being used for storage.
<p>MINOR WORKS ITEM 2.19</p>	<p>ERECTION OR ALTERATION OF WALL SIGNBOARD</p> <p style="text-align: right;">SHEET 1 OF 2</p>

Appendix VII – Recommended Design and Details for Classes II & III Minor Works

<div><div>GENERAL NOTES :</div><div><div><div>1. The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)</div><div>2. All works shall comply with the following CoP/ standards:</div><div><div><div>• Building (Construction) Regulations</div><div>• Code of Practice on Wind Effects in Hong Kong 2004</div><div>• Code of Practice for the Structural Use of Steel 2005</div><div>• Code of Practice for the Structural Use of Concrete 2004</div></div><div>3. All structural steel to be grade S275 class 1 to BS EN 10025 and shall be hot dip galvanized to BS EN ISO 1461.</div><div>4. All connections to be 4 mm fillet weld all round or butt weld with weld strength, pw = 220 N/mm² to BS EN 1011 and all electrodes to BS EN ISO 2560.</div><div>5. All anchor bolts to be Hilti HSL-3 M8 and shall be installed according to the manufacturer's specification.</div><div>6. The existing concrete grade of reinforced concrete slab is assumed to be Grade 20 with a minimum thickness of 125 mm.</div><div>7. Tolerances such as lack of fit, hole diameter and dimensions etc shall be allowed in accordance with the provision of "Code of Practice for the Structural Use of Steel 2005"</div></div></div><div><div>DESIGN LOADS :</div><div><div>1. Dead Load = 250kg</div><div>2. Wind Load = 2.01kN/m² with total pressure coeff. of 2.0</div></div></div><div><div>PREPARATION WORKS:</div><div><div>1. Obtain the existing design drawings/ information of the signboard for reference.</div><div>2. Carry out condition survey of the parent structure/ existing condition prior to the commencement of works.</div><div>3. If the signboard consists of light emitting diodes, disconnect the power to the signboard before commencement works.</div><div>4. Obtain the original design of the approved structure for reference of any required reinstatement works.</div><div>5. The structural adequacy of the supporting parent structure due to the additional installation of minor works must be checked to the satisfaction of structural requirement prior to the carrying out of minor works.</div><div>6. Plastering or rendering should be removed to expose concrete face before installation of anchor bolts and base plate.</div></div></div><div><div>SAFETY AND PRECAUTIONARY MEASURES :</div><div><div>1. Fence-off the working area from the public. Diversion arrangement shall be taken if necessary.</div><div>2. Bamboo scaffolds details shall refer to the following figure as shown on drawing no. GN-1.</div><div>• Figure 5 Bamboo scaffold for signboard</div></div></div><div><div>WORKING PROCEDURES :</div><div><div>A. Erection</div><div><div>1. Install the signboard as per the drawing.</div><div>2. Make good and reinstate the affected areas of the parent building.</div><div>3. Dismantle the bamboo scaffold and clean the site.</div></div><div>B. Alteration</div><div><div>1. Remove the display surface/ loose parts from the signboard.</div><div>2. Remove the defective member and replace with a new one having the same size as the existing member.</div><div>3. Make good and reinstate the affected areas of the parent building.</div><div>4. Dismantle the bamboo scaffold and clean the site.</div></div></div></div><div><div>Remarks : The signboard does not consist of stone.</div></div></div></div>	<div><div>MINOR WORKS ITEM 2.20</div><div>ERECTION OR ALTERATION OF SIGNBOARD ON OR HUNG UNDERNEATH THE SOFFIT OF A BALCONY OR CANOPY (OTHER THAN A CANTILEVERED SLAB)</div></div>
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