


ENGINEERING DRAWINGS



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					JOBS@V2E.COM.AU (08) 8351 3927 VISION 2 ESTIMATING PTY LTD 90 JERVOIS ST, TORRENSVILLE, SA	PROPOSED RESIDENCE	QE23-2074	-	-	SAJID ALI	18/01/2024
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1 - GENERAL NOTES:

- 1.0 These drawings shall be read in conjunction with - specification and certification, all architectural and other consultants drawings and specifications. Any discrepancies shall be referred to the architect or project manager for a decision before proceeding with the work.
- 1.1 Dimensions SHALL NOT be obtained by scaling off the drawings.
- 1.2 All dimensions shall be checked by Builder prior to commencement of works.
- 1.3 Prior to the commencement of construction the Builder shall check and co-ordinate with the Architect and other consultants all steps, lifts, rebates, setdowns, chases and penetrations. Any discrepancies on our drawings shall be referred to us for clarification and/or revision. Under no circumstances shall the Builder proceed with the works until all discrepancies have been satisfactorily resolved.
- 1.4 All workmanship and materials shall be in accordance with the relevant Australian Standards, the BCA and local council regulations.
- 1.5 The contractor shall be responsible for the maintaining the structure and adjacent structures in a stable condition, ensuring no part is overstressed during the works.

2 - SAFETY RISKS & HAZARDS

- 2.0 It is essential that an adequate safety plan is prepared by the contractor for the works. - may not be aware of all safety risks and hazards involved. In this project and the absence of comment does not imply that there are no risks or hazards.

3 - LOADINGS:

- 3.0 The structural work as shown on these drawings has been designed for the following cases :
 - i) General floor live load of 1.5 kPa uniform distributed load
 - ii) General floor live load of 1.8 kN point load
 - iii) Balcony and stair floor live load of 2.0 kPa uniform distributed load
- 3.1 Load combinations have been calculated in accordance with AS1170.1 requirements.

4 - FOUNDATIONS:

- 4.0 Refer to the attached soil report for reference to the required founding material for the footings and soil profiles for the site.
- 4.1 The founding material and steel reinforcement to the footings and slab shall be inspected by the Engineer prior to the pouring of concrete. 24 hours notice is required for inspection.
- 4.2 The Engineer shall be notified immediately should foundation material differ from that stated in the soil report.
- 4.3 Topsoil containing plant roots and any organic material shall be removed from the area prior to filling and compaction.
- 4.4 For sites where cut and fill is required, the fill shall continue past the edge of the building at least 1 metre and shall be retained or battered beyond this point by a slope not steeper than 2 horizontal to one vertical. The interior of the slab shall be founded on compacted material and the edge beams shall be founded on natural soil or controlled fill (refer soil report).
- 4.5 The ground around the slab is to be well drained at all times by placing a gravel drain around the perimeter or by sloping the soil (1:10 maximum) away from the slab area. Ponding of water around the slab area is to be prevented during and after construction of the slab. All water is to be drained to either the street frontage or to existing or new field drainage pits connected to a stormwater line. Spoon drains are to be located at top and bottom of all batters.
- 4.6 Edge footings shall be founded on material with an allowable bearing pressure not less than 100 kPa. The slab shall be founded in material with an allowable bearing pressure not less than 50 kPa.
- 4.7 Excavation adjacent to existing footings shall not extend below the underside of existing footings unless instruction is obtained from the engineer.
- 4.8 Notwithstanding that existing services may or may not be shown on these drawings, no responsibility is taken by the engineer for this information which has been supplied by others. The contractor shall ascertain the position of all underground services prior to excavation.

LAP SCHEDULE:	
SIZE	LENGTH
FABRIC225mm
N12500mm
N16700mm
N201000mm

5 - REINFORCED CONCRETE:

- 5.0 All work shall be in accordance with all current Australian Standards as a MINIMUM work standard.
- 5.1 Concrete shall have a characteristic compressive strength after 28 days of not less than that listed below for the various concrete elements UNO:
 - i) FOOTINGS - 25 MPa
 - ii) INTERIOR GROUND SLABS - 25 MPa
 - iii) EXTERIOR GROUND SLABS - 32 MPa
 - iv) BLOCKWORK CORE FILL - 20 MPa
 - v) SUSPENDED SLABS - 40 MPa
- 5.2 Minimum clear cover to reinforcing bar shall be in accordance with the following table. However cover to reinforcing noted on the plans shall take precedence over those stated in the table.
 - i) FOOTINGS - 50mm TO ALL SIDES
 - ii) INTERIOR GROUND SLABS - 30mm TOP & BOTTOM
 - iii) EXTERIOR GROUND SLABS - 45mm TOP & BOTTOM
- 5.3 All concrete shall be mechanically vibrated. Vibrator shall not be used to spread concrete.
- 5.4 All concrete surfaces shall be cured using an approved method for seven (7) days immediately after concrete is laid. Confirm method of curing with Engineer prior to use. Following concrete placement and as required during the finishing process, aliphatic alcohol or approved curing compound shall be applied to exposed surfaces to limit moisture loss from the fresh concrete.
- 5.5 Sizes of concrete elements do not include thickness of applied finishes.
- 5.6 Construction joints where not shown shall be located to the Engineer's approval.
- 5.7 No holes, chases, blockouts, ducts or embedment of pipes other than those shown on the structural drawings shall be made in concrete members without prior approval of the Engineer.
- 5.8 No additives shall be added or applied to the concrete mix without the approval of the Engineer.
- 5.9 All steel reinforcement in concrete elements shall be inspected by the Engineer and passed prior to pouring of any concrete.
- 5.10 All reinforcement shall be supported on plastic chairs, generally at not greater than 300mm centres in both directions. Bars shall be secured to formwork intersections. Conduits, pipes etc... shall not be placed in the cover of the concrete.
- 5.11 All reinforcement shall comply with the requirements of the relevant Australian Standards.
- 5.12 Concrete to have a maximum aggregate size of 20mm with 60mm maximum slump and a water/cement ratio of not greater than 0.65.
- 5.13 The maximum permissible transport time for concrete between batching and placement on site shall be in accordance with the following table.

AMBIENT AIR TEMPERATURE	MAX. BATCHING TO PLACEMENT TIME
10° - 24°C	120 minutes
25° - 27°C	90 minutes
28° - 30°C	60 minutes
31° - 33°C	45 minutes
34° - 36°C	30 minutes
37°C+	No placement of concrete unless chilled water or ice in mix

- 5.14 A leveling sand layer (50mm minimum in thickness) shall be placed under slab on ground. The sand shall be salt free and compacted to 85% Density Index.
- 5.15 A vapour barrier (200um thick polythene sheet) shall be placed beneath the slab on ground so that the ground surface under the slab and thickenings is entirely covered in accordance with AS3610 and AS2670.
- 5.16 Slab fabric shall be lapped one full panel of fabric plus 25mm so that the two outermost transverse wires of one sheet overlap the two outermost transverse wires of the sheet being lapped by 25mm.
- 5.17 Where brittle floor coverings such as ceramic tile shall be used, an additional layer of SL2 Mesh shall be added to the existing slab reinforcement. If no extra reinforcement is added covering should be delayed until 90 days after the slab has been placed.
- 5.18 Where service pipes penetrate the floor and or walls provision should be made for movement of the floor/walls.
- 5.19 All concrete shall be sampled and tested in accordance with AS 3600 adopting project assessment method for compressive strength and slump compliance. The results of all tests shall be promptly submitted to the Engineer for review.
- 5.20 Diagonal reinforcement shall be placed at all re-entrant corners. 2#12 or 3-1.11M 1600mm Min. long. Typical.
- 5.21 The edge rebate shall be finished and drained by weep holes at not more than 1m spacing. Weep holes shall be located above the finished ground level any portion of a deepened rebate that cannot be drained shall be mortar filled.
- 5.22 Approved steel reinforcement systems may be used in lieu of that stated on our plans (eg. Aquila steel "L" cage, Neumans F52 fabric etc...), provided the overall size of the footings and ground slab as detailed by us remains the same.
- 5.23 All props and formwork under suspended concrete shall be removed before construction of brickwork or blockwork above UNO.

6 - STRUCTURAL STEEL:

- 6.0 All steelwork shall be constructed in accordance with code of practice AS4100 Steel Structures Code, AS1554, AS1163, AS3679, AS4600 and all other codes of practice referred to therein. Steel quality shall conform with the following Australian Standards UNO:
 - Steel Plates & Sections AS3679 Grade 300
 - Rectangular Hollow Sections AS1163 Grade C360 L0
 - Circular Hollow Sections AS1163 Grade C250
 - Square Hollow Sections AS1163 Grade C350
 - Purline/Girts AS1387 Grade G450 Z350
 - 6.1 Unless noted otherwise all welds shall be 6mm continuous fillet E410X electrode, all bolts M16 4.6/5, all plates 10mm thick.
 - 6.2 Unless noted otherwise, bolt holes shall be 2mm greater than specified bolt size.
 - 6.3 The steelwork sub-contractor's shop drawings shall be submitted to the Engineer for review before fabrication commences.
 - 6.4 Fabricator to check all dimensions on site with contractor.
 - 6.5 Internal steelwork shall be blast cleaned to class 1 and coated with minimum 100um high build Alkyd primer before erection. External steelwork shall be blast cleaned to class 2.5
 - 6.6 The structural steel framework and bracing members shown on the plans are those required in the design for the completed structure only and the contractor shall be responsible for providing any necessary temporary connections, supports and bracing during the erection process to maintain the stability and safety of the steelwork throughout construction.
 - 6.7 Encased steelwork shall not be painted and shall be wrapped with F41 fabric, 50 cover.
 - 6.8 The steel fabricator shall provide all bolts necessary for the erection of the steelwork and bolt holes and details necessary for the erection of timber works as shown, noted or implied on these drawings or architects drawings and specification.
 - 6.9 The roof structure has been designed for normal roof loads only and does not allow for any extraneous loads such as hoists, monorails etc... except where shown on drawings.
 - 6.10 When shop splices are necessary in beams, the position of the splice shall be approved by the Engineer.
 - 6.11 Provide protective coating on all steelwork partially embedded in concrete UNO. The coating should be non-conductive and extend a minimum of 200mm into the concrete in accordance with AS2312-2002 and a minimum of 100mm above the concrete.
- 7 - MASONRY BLOCKWORK & BRICKWORK:**
- 7.0 Materials and workmanship shall comply with the requirements of AS3700 and AS2733 as a minimum standard.
 - 7.1 All masonry blocks shall have a min unconfined compressive strength of 15 Mpa. All loadbearing bricks shall have a min unconfined compressive strength of 10 Mpa.
 - 7.2 Mortar shall have the following mix proportions, 1 part cement : 0.5 part lime : 4.5 parts clean sand. Sand shall be clean, well graded and free of silt and clay.
 - 7.3 Provide medium duty galvanized wall ties at 600mm crs. vertically & horizontally. Embedment of ties in the mortar joint shall be a minimum of 50mm into each leaf. Stainless steel ties shall be used in locations < 1m from the coast.
 - 7.4 Hollow blocks to be filled with concrete shall have cleanout blocks laid at the base courses.
 - 7.5 Additives shall not be added to the grout or mortar without the specific permission of the Engineer.
 - 7.6 All mortar dogs and protrusions into the block or brick cores shall be removed prior to the placement of any concrete into the cavities. Loose material and debris shall also be removed from the base of the masonry cores.
 - 7.7 Fully bed solid units, face bed hollow units and fully fill vertical joints. No raking of mortar joints is permitted.
 - 7.8 Grouting shall not commence until the mortar joints have gained sufficient strength to resist blowout and grout spaces have been cleaned out. Compaction of concrete shall be by vibrator or by rodding with a rod not less than 24mm diameter. Maximum 6 course height to be filled and compacted in one pass.
 - 7.9 The concrete used to fill the masonry cores shall have a compressive strength of not less than 20 MPa after 28 days. The concrete shall have a maximum aggregate size of 10mm and a maximum slump of 230±30mm and a minimum cement content of 300kg/m3
 - 7.10 All cores with reinforcement bars shall be filled with concrete, unless noted otherwise. Where masonry blockwork is acting as a retaining structure then all cores shall be filled with concrete.
 - 7.11 Reinforcement shall be placed accurately and tied securely before placement of concrete.
 - 7.12 Unless noted otherwise vertical control joints shall be provided in blockwork at 12m crs. and at 6m from corners, and in brickwork at 5.0m crs and at 2.0m to 4.5m from corners. Joints to be a minimum of 10mm wide and in accordance with Cement Concrete & Aggregates Australia Technical Note TNE1.
 - 7.13 No holes or chases shall be cut into blockwork/brickwork without prior approval of the Engineer.
 - 7.14 Bricks shall exhibit a max. 5 year expansion of 1.0mm/m or less, and the brick supplier shall provide a recent test certificate confirming the above.

7 - MASONRY BLOCKWORK & BRICKWORK (CONT.):

- 7.15 All wall intersections shall be of bonded construction or tied with medium duty ties at 400mm max. crs.
- 7.16 Maximum height of core-filling :-
 - 140mm wide blockwork - 1.8m max
 - 190mm wide blockwork - 3.4m max

8 - TIMBER FRAMING:


- 8.0 The timber roof and floor framing layouts shown on three engineering drawings form the basis for the design of the structural support elements and the footings. Alternative roof and floor framing layouts will only be permitted with the written approval of the structural Engineer.
- 8.1 All timber roof, wall and floor structural members that are designed by the Contractor shall be designed in accordance with Engineering principles, AS1684 and AS 1720.1 and shall be handled, erected, installed and braced in accordance with AS 1680 and AS 4440.
- 8.2 At the time of the frame inspection, the Contractor shall provide all engineering design, checking and inspection certification required by the statutory authority, duly signed by a Registered Professional Engineer of -, for all of the timber roof, wall and floor structural members that have been designed by the Contractor.
- 8.3 In addition, the Contractor shall inspect and certify that the roof and floor framing that are designed by the Contractor, have been constructed in accordance with their design.
- 8.4 Except where otherwise shown on these Engineering drawings, all timber connection, tie-down and bracing details shall comply with AS 1684 and AS 1720.1.
- 8.5 All timber members used in the construction shall have a minimum level of durability as specified in AS 1604.2 Appendix C.
- 8.6 The Contractor shall provide protection of the construction against termite attack in accordance with NCC and AS 3680.1 and QMBA technical circular T -01-02/2001. The Contractor shall provide certification of treatment.

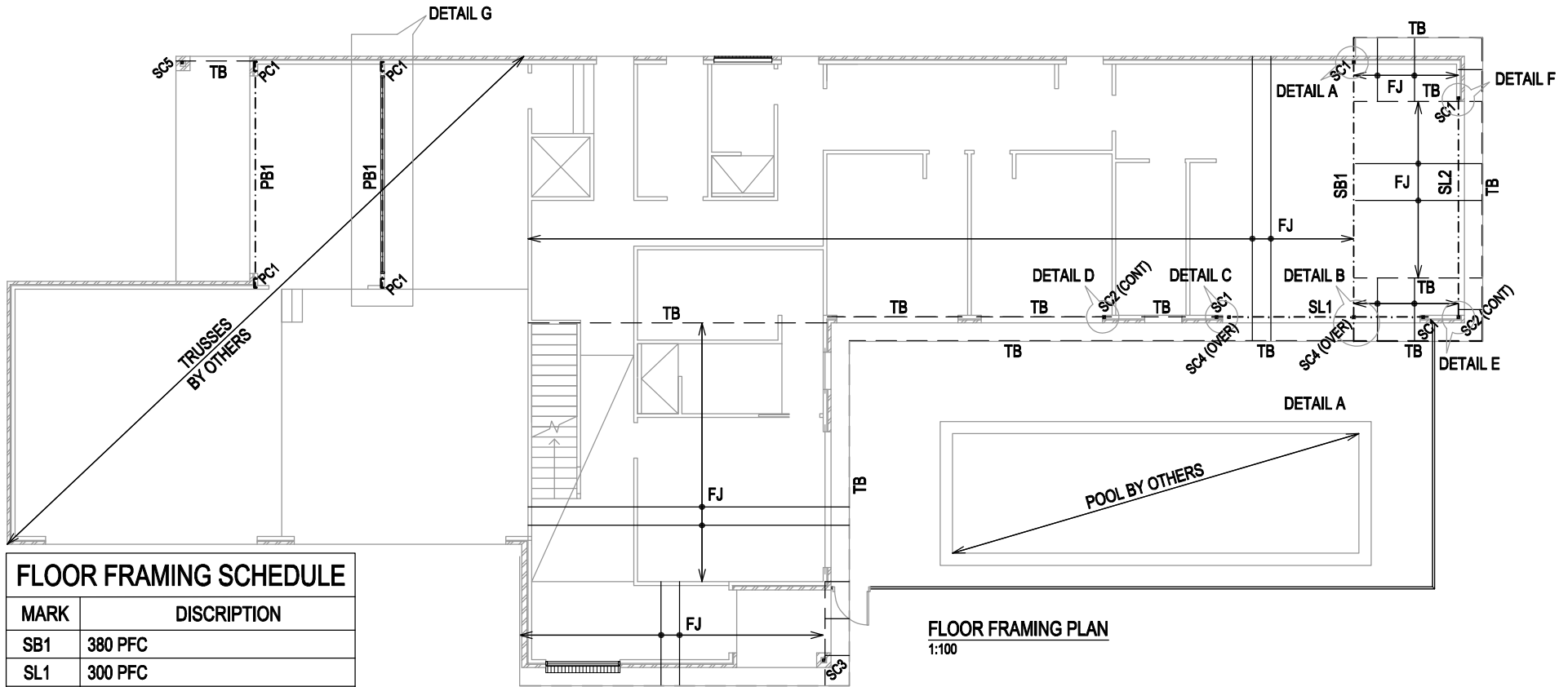
9 - COMPACTION OF FILL:

- 9.0 Crawler plant track rolling is usually inadequate for compacting fill to approved standards and if fill compaction is not of a suitable standard, then footings and the slab are to be supported on bored piles.
- 9.1 After the site has been stripped of all topsoil, organic material and debris, proof rolling with a vibrating roller of 5 to 10 tonne capacity shall be carried out. If neighbouring structures are likely to be affected by vibration of the roller, a static speedometer roller may be used in clay soils by reducing the depth of fill layers to 150mm.
- 9.2 Soft spots under rolling should be excavated and filled, then re-rolled.
- 9.3 Controlled fill is material that has been satisfactorily compacted to provide adequate strength without excessive settlement.
- 9.4 Compaction requirements for fill material is as follows :-
 - i) Sand fill up to 800mm deep is to be compacted in 200mm layers by a vibrating plate or vibrating roller. The fill is to have an n value of 7 using a standard penetrometer test. Density index is to be not less than 75% in accordance with AS 1289.
 - ii) Non-sand fill up to 450mm deep shall be compacted in not more than 150mm layers by a mechanical roller, clay fill shall be moist during compaction. Standard compaction index is not to be less than 95% in accordance with AS 1289.
- 9.5 Testing of density index shall be done in accordance with Australian standard AS 1288.
- 9.6 Reactive clay should be avoided as fill but if used should be placed at a moisture content which approximates the fixed equilibrium moisture content.

10 - UNCONTROLLED SHRINKAGE CRACKING:


- 10.0 To minimise uncontrolled shrinkage cracking the following procedures should be strictly adhered to;
- 10.1 Under no circumstances shall any water be added to the concrete truck after it leaves the batching plant.
- 10.2 Slabs on ground shall be poured over a vapour barrier or compacted road base gravel as detailed on the drawings.
- 10.3 The concrete shall be vibrated during placement.
- 10.4 Aliphatic alcohol or approved curing compound shall be applied to the surface of the concrete immediately after the initial screed and again immediately after the bull finishing.
- 10.5 The surface of the newly placed concrete shall be protected from excessive wind by erecting a wind barrier such as heather fencing when required.
- 10.6 Once the slab is finished it shall be continuously cured for 7 days by either keeping continuously wet or covering with weighted down plastic or approved equivalent method such as application of a curing compound.
- 10.7 When early signs of plastic settlement cracks are visible, re-compact or re-trowel the concrete surface.
- 10.8 Where polished concrete finishes are specified, concrete to be 40MPa minimum with SL72 mesh UNO.

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Rev	Revision Details	Date						Client: VISION 2 ESTIMATING	Rev: 0		Dwg No: S0.02	



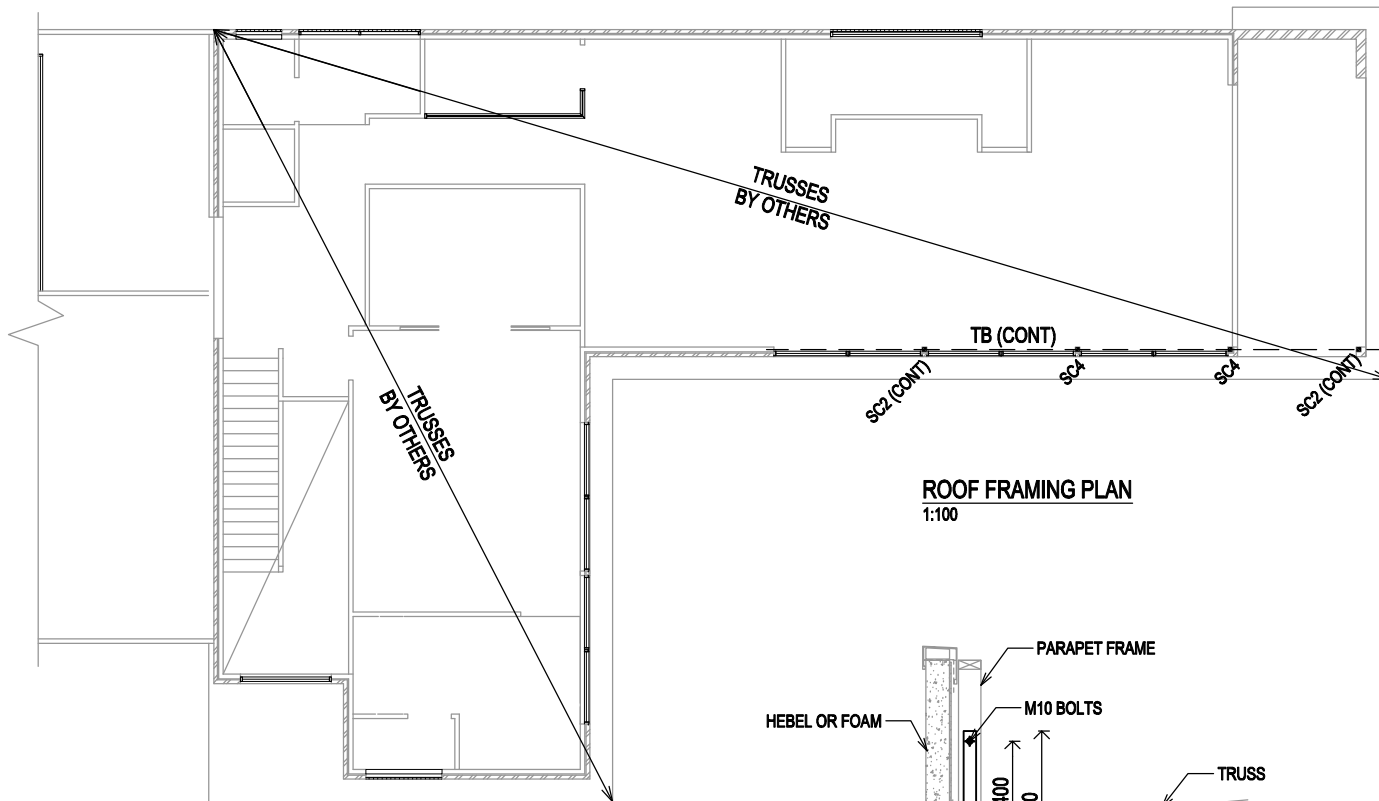
FLOOR FRAMING SCHEDULE	
MARK	DISCRIPTION
SB1	380 PFC
SL1	300 PFC
SL2	380 PFC
PB1	250 PFC (PORTAL BRACE)
PC1	250 PFC (PORTAL COLUMN)
TB	TIMBER BEAM (BY OTHERS)
SC1	89X89X5 SHS STEEL COLUMN
SC2	89X89X5 SHS STEEL COLUMN
SC3	75X75X4 SHS (TELESCOPIC POST)
SC4	89X89X5 SHS STEEL COLUMN
SC5	75X75X4 SHS (TELESCOPIC POST)
FJ	FLOOR JOISTS (BY OTHERS)

FLOOR FRAMING PLAN
1:100

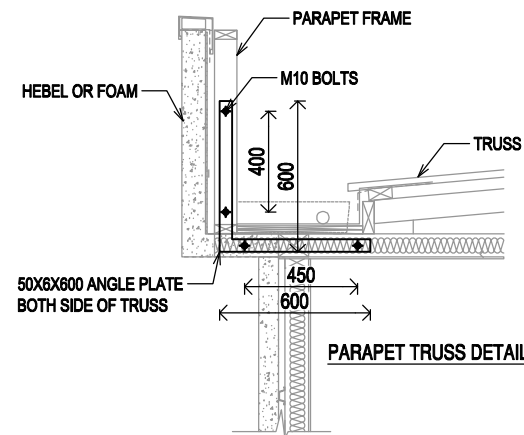
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FLOOR FRAMING SCHEDULE

MARK	DISCRIPTION
SB1	380 PFC
SL1	300 PFC
SL2	380 PFC
PB1	250 PFC (PORTAL BRACE)
PC1	250 PFC (PORTAL COLUMN)
TB	TIMBER BEAM (BY OTHERS)
SC1	89X89X5 SHS STEEL COLUMN
SC2	89X89X5 SHS STEEL COLUMN
SC3	75X75X4 SHS (TELESCOPIC POST)
SC4	89X89X5 SHS STEEL COLUMN
SC5	75X75X4 SHS (TELESCOPIC POST)
FJ	FLOOR JOISTS (BY OTHERS)

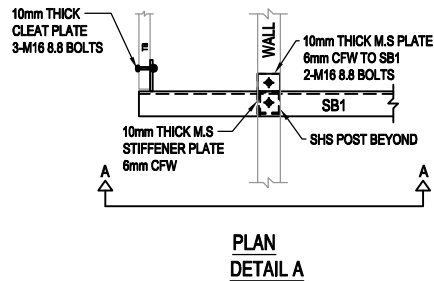


ROOF FRAMING PLAN
1:100

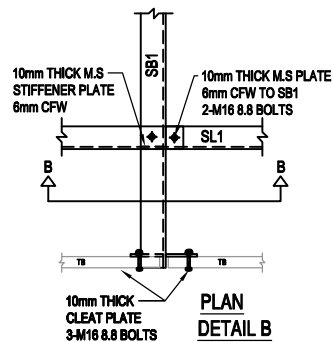


PARAPET TRUSS DETAIL

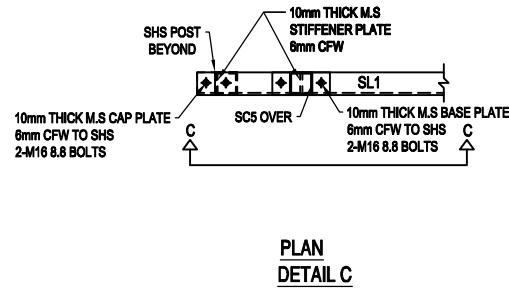
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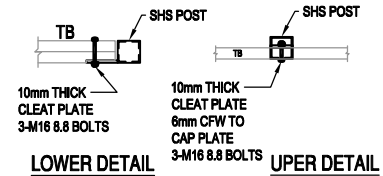
PLAN
DETAIL A



PLAN
DETAIL B

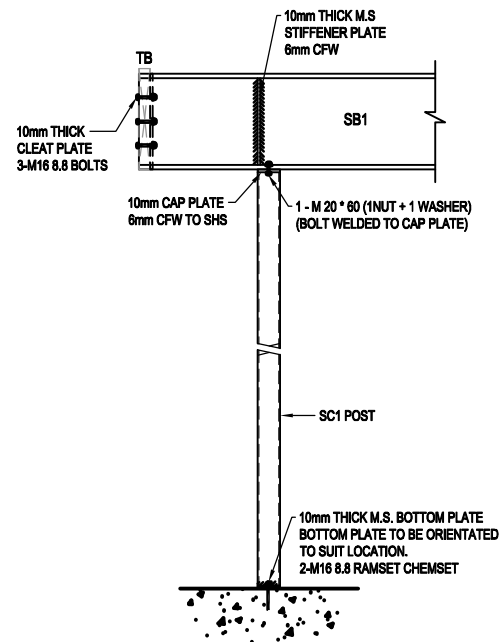


PLAN
DETAIL C

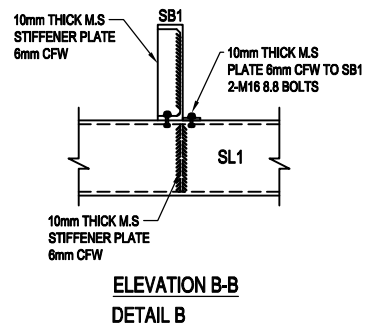


LOWER DETAIL

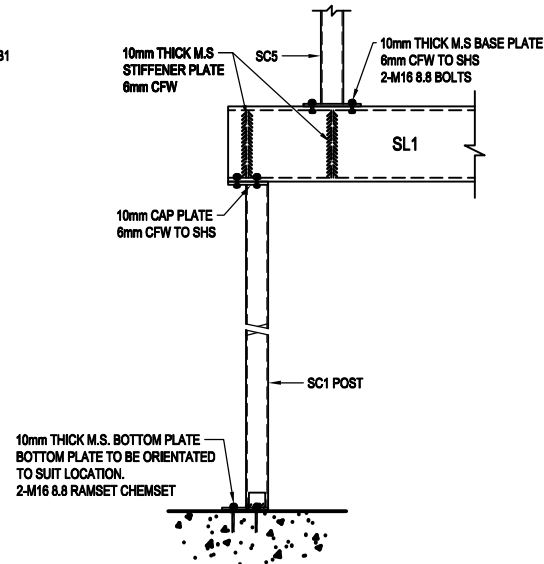
UPPER DETAIL



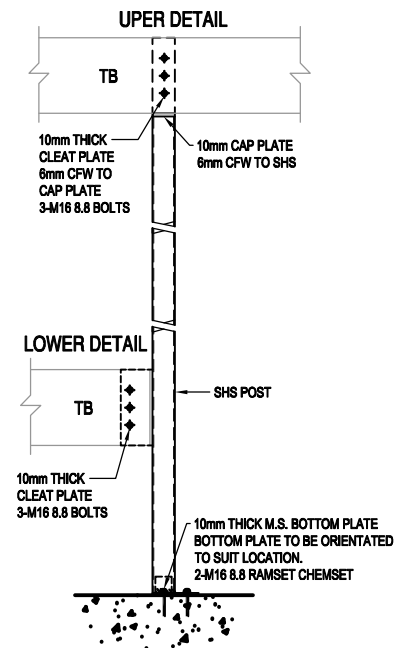
ELEVATION A-A
DETAIL A




ELEVATION B-B
DETAIL B



ELEVATION C-C
DETAIL C



DETAIL D

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10mm THICK CLEAT PLATE
6mm CFW TO CAP PLATE
3-M16 8.8 BOLTS



UPPER DETAIL

10mm THICK CLEAT PLATE
6mm CFW TO SHS
3-M16 8.8 BOLTS



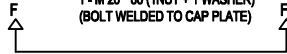
LOWER DETAIL

10mm THICK M.S. STIFFENER PLATE
6mm CFW

SHS POST BEYOND

SL2

1 - M 20 * 60 (1NUT + 1 WASHER)
(BOLT WELDED TO CAP PLATE)



PLAN
DETAIL F

PC1

PB1



PLAN
DETAIL G

TB

10mm THICK CLEAT PLATE
6mm CFW TO CAP PLATE
3-M16 8.8 BOLTS

10mm CAP PLATE
6mm CFW TO SHS

SHS POST

SL2

10mm THICK CLEAT PLATE
6mm CFW TO SHS
3-M16 8.8 BOLTS

10mm THICK M.S. BOTTOM PLATE
BOTTOM PLATE TO BE ORIENTATED TO SUIT LOCATION.
2-M16 8.8 RAMSET CHEMSET



DETAIL E

10mm THICK M.S. STIFFENER PLATE
6mm CFW

SL2

1 - M 20 * 60 (1NUT + 1 WASHER)
(BOLT WELDED TO CAP PLATE)

SHS POST

10mm THICK M.S. BOTTOM PLATE
BOTTOM PLATE TO BE ORIENTATED TO SUIT LOCATION.
2-M16 8.8 RAMSET CHEMSET



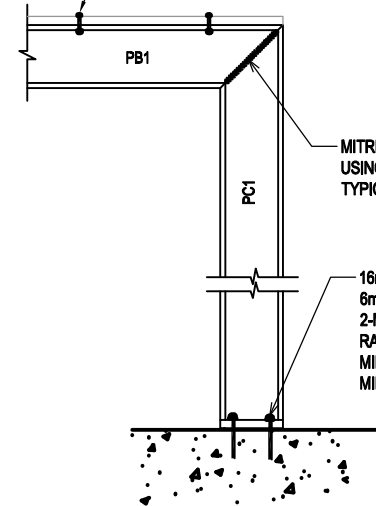
ELEVATION F-F
DETAIL F

M12 BOLTS @ 600mm C/C


PB1

MITRE CUT + FSBW
USING 6 CFW
TYPICAL BOTH ENDS

16mm BASE PLATE
6mm CFW TO PFC
2-M16 8.8 CHEMSET
RAMSET REO 502
MIN. 160mm EMBEDMENT
MIN. 50mm EDGE CLEARANCE



ELEVATION G-G
DETAIL G

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