

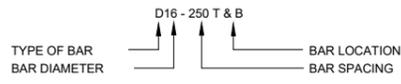
GOVERNMENT OF THE COOK ISLANDS, INFRASTRUCTURE COOK ISLANDS PALMERSTON ISLAND NEW CYCLONE SHELTER



DRAWING SHEET LIST	
NO.	DESCRIPTION
S000	COVER
SN01	GENERAL NOTES- SHEET 1
SN02	GENERAL NOTES- SHEET 2
SN03	GENERAL NOTES- SHEET 3
S001	FOUNDATION PLAN AND DETAILS
S002	GROUND FLOOR PLAN AND DETAILS
S003	FIRST FLOOR PLAN AND DETAILS- SHEET 1
S004	FIRST FLOOR DETAILS- SHEET 2
S005	UPPER ROOF PLAN
S006	LOWER ROOF PLAN
S007	ELEVATIONS
S008	AWNING DETAILS
S009	RAMP AND STAIRS DETAILS
S010	TYPICAL WALL REINFORCING

Surveying
Urban Development
Infrastructure Buildings | Energy | Transport | Water
Engineering Civil | Structural | Environment | Marine
Project Management
Asset Management

H : CONCRETE

- ALL STRUCTURAL CONCRETE WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH NZS 3109.
- ALL STRUCTURAL CONCRETE SHALL BE SPECIAL GRADE TO NZS 3104. STRENGTHS SHALL BE AS FOLLOWS U.N.O. :
 - FOUNDATIONS - 25 MPa
 - CAST INSITU SLABS, BEAMS & COLUMNS - 25 MPa
- SURFACE FINISHES SHALL BE TO NZS 3114, TYPICALLY AS FOLLOWS U.N.O. :
 - BURIED FOUNDATIONS - F1 or U1
 - CONCRETE EXPOSED TO VIEW - F4 or U3
- REINFORCEMENT SHALL BE TO :
 - NZS 3402 HOT ROLLED STEEL BARS
 - NZS 3422 WELDED FABRIC OF DRAWN STEEL WIRE
- NOMENCLATURE :
 - D - DEFORMED BAR GRADE 300E
 - HD - DEFORMED BAR GRADE 500E
 - R - PLAIN BAR GRADE 300E
 - HR - PLAIN BAR GRADE 500E
- REINFORCING NOTATION :
 
- NO REINFORCING IS TO BE WELDED WITHOUT THE WRITTEN AUTHORITY OF THE ENGINEER. THE WELDING OF REINFORCING IS TO BE IN ACCORDANCE WITH AS/NZS 1554.3.
- NO REINFORCING SHALL BE RE-BENT ON SITE UNLESS SHOWN ON THE DRAWINGS, AND WHERE RE-BENT SHALL ONLY BE RE-BENT ONCE.
- SAWCUTS TO BE 5mm WIDE AND EXTEND TO A THIRD DEPTH OF SLAB. SAW CUTTING TO TAKE PLACE NO LATER THAN 24 HOURS FOR AVERAGE AMBIENT TEMPERATURE ABOVE 20°C AND 48 HOURS FOR BELOW 20°C.
- LAP OR SPLICE LENGTHS :

SPLICE LENGTHS SHALL BE IN ACCORDANCE WITH NZS 3101 AND FOR F_c SHOWN SHALL BE A MINIMUM OF:

(a) FOR DEFORMED MILD STEEL BARS GRADE 300

BAR DESIGNATION	SPLICE LENGTHS	
	25 MPa	30 MPa or HIGHER
D10	300 / 390	275 / 360
D12	365 / 470	330 / 430
D16	485 / 625	435 / 570
D20	600 / 780	550 / 715
D25	750 / 975	690 / 890
D32	965 / 1250	880 / 1140
D40	1200 / 1560	1095 / 1425

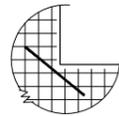
(b) FOR DEFORMED HIGH YIELD BARS GRADE 500E

BAR DESIGNATION	SPLICE LENGTHS	
	25 MPa	30 MPa or HIGHER
HD10	500 / 650	460 / 595
HD12	600 / 780	550 / 715
HD16	800 / 1040	740 / 950
HD20	1000 / 1300	920 / 1190
HD25	1250 / 1625	1150 / 1485
HD32	1600 / 2080	1460 / 1900
HD40	2000 / 2600	1825 / 2375

SPLICE LENGTH NOTATION :
 FOR COLUMNS, BOTTOM BEAM OR SLAB BARS OR TOP BEAM BARS WHERE LESS THAN 300mm OF CONCRETE IS PLACED BELOW THE BEAM BARS
 TOP BEAM BARS WHERE MORE THAN 300mm OF CONCRETE IS PLACED BELOW THE BEAM BARS

- RE-ENTRANT CORNERS :

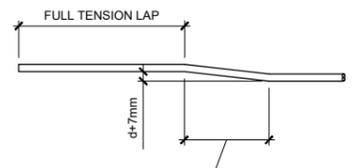
ALL RE-ENTRANT CORNERS SHALL HAVE DIAGONAL TRIM BARS OF D12 OR THE LARGEST REINFORCING BAR OF 2 X SPLICE LENGTH.



H : CONCRETE

- Denotes a straight bar with a hook.
 - Denotes a bent bar with a hook.
 - Denotes a bent bar with a hook and a standard leg.

(d) CRANKED BARS SHALL BE DIMENSIONED AS FOLLOWS :



OFFSET LAPS IN MAIN BARS SHALL BE 1.6 MINIMUM FOR GRADE 300 AND 1.9 MINIMUM FOR GRADE 500 BARS.

- COVER TO REINFORCEMENT :

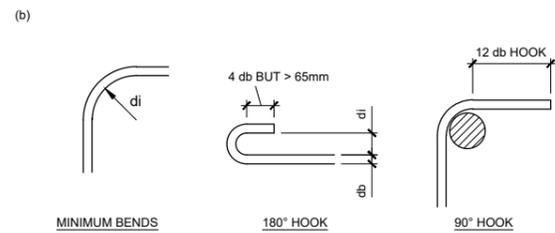
COVER SHALL BE AS NOTED UNLESS SHOWN OTHERWISE ON THE DRAWINGS. UNO 75mm

- CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER. CONSTRUCTION JOINTS SHALL BE PREPARED BY RETARDING THE INTERFACE SURFACE, THEN WATER BLASTING TO PRODUCE A SURFACE WHICH IS CLEAN, FREE OF LAITANCE AND INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF NOT LESS THAN 5 mm.

- ALL CONCRETE SHALL BE FULLY CURED. SPRAY-ON MEMBRANES SHALL BE COMPATIBLE WITH FINISHES.

- PRINCIPAL REINFORCEMENT DETAILS :

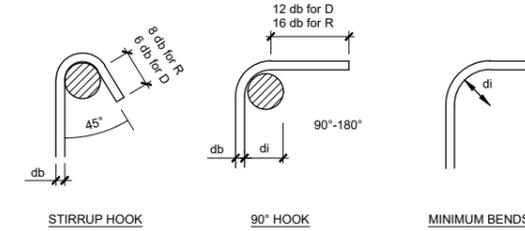
- QT STEEL SHALL NOT BE USED WHERE BENDING OR HEATING OF BARS IS REQUIRED, (BARS WITH HOOKS OR SPLICE OFFSETS, GALVANISING, WELDING, THREADING, ETC).
- DETAILS OF BAR BENDS SHALL BE AS FOLLOWS:



f _y (MPa)	BAR DIAMETER db, (mm)	MIN. DIAMETER OF BEND, di(mm)
300 or 500	6 - 20	5db
	25 - 40	6db

H : CONCRETE

- SECONDARY REINFORCEMENT DETAILS :
 - LINKS, TIES, STIRRUPS AND U BARS SHALL BE BENT GENERALLY AROUND PINS OF THE SAME DIAMETER AS THE BARS THEY ARE TO ENCLOSE, WITH A MINIMUM DIAMETER OF BENDS AS GIVEN BELOW.
 - ALL TIES AND LINKS SHALL FIT CLOSELY AROUND MAIN BARS.
 - THE FIRST STIRRUPS SHALL BE PLACED NOT FURTHER THAN HALF THE TIE SPACING FROM FACE OF SUPPORT.
 - QT STEEL SHALL NOT BE USED WHERE BENDING OF BARS IS REQUIRED.
 - DETAILS OF BAR BENDS SHALL BE AS FOLLOWS:



f _y (MPa)	BAR DIAMETER db, (mm)	MIN. DIAMETER OF BEND, di(mm)	
		PLAIN BARS (R)	DEFORMED BARS (D)
300 OR 500E	6 - 20	2db	4db
	25	3db	6db

- PRECAST FLOOR SYSTEMS :

- SYSTEMS ARE TO BE AS NOTED ON THE DRAWINGS AND ARE TO BE DESIGNED BY THE MANUFACTURER.
- SEATING OF UNITS :
 - IN DIRECTION OF SPAN - 75 mm U.N.O.
 - NOT IN DIRECTION OF SPAN - 25 mm U.N.O.
- PRECAST FLOOR UNITS SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM LOADING, IN ADDITION TO DEAD LOAD :
 - SDL - 0.5 kPa
 - LL - 5.0 kPa
- 65mm MIN. TOPPING IS REQUIRED ON ALL UNITS. ALLOWANCE SHALL BE MADE FOR GREATER THAN THE SPECIFIED MINIMUM TOPPING NEAR THE PRECAST SUPPORTS TO ALLOW FOR ANY CAMBER IN THE PRECAST & SHELL BEAM UNITS. THE CONSTRUCTOR IS TO LIAISE WITH PRECAST UNIT & SHELL BEAM MANUFACTURER TO ENSURE THE FLOORS ARE INSTALLED TO THE CORRECT LEVELS.
- ALL SIZES SHOWN ARE INDICATIVE ONLY AND TO BE CONFIRMED BY PRECAST FLOOR MANUFACTURER.
- PROP ALL FLOOR BEAMS FOR 28 DAYS AFTER TOPPING HAS BEEN POURED.
- TEMPORARY PROPPING OF THE PRECAST UNITS SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTOR & SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- CUSTOM MESH EQUIVALENT TO STANDARD MESH WITH BARS AT GREATER THAN 250 CRS IS NOT ACCEPTABLE FOR THE SUSPENDED FLOOR TOPPING.

- INSITU CONSTRUCTION JOINTS :

JOINTS TO BE ROUGHENED BY USE OF COMB HAMMER TO PRODUCE >5mm DEFORMATIONS AND CLEANED WITH WIRE BRUSH BEFORE NEXT POUR

Revision	App	Date	Approved	SRG
B FOR TENDER	SRG	31.10.17	Designed	TD
A FOR TENDER	SRG	29.09.17	Drawn	GH
			Reviewed	ND
			App	SRG

Client
GOVERNMENT OF THE COOK ISLANDS INFRASTRUCTURE COOK ISLANDS

Project Title
PALMERSTON ISLAND NEW CYCLONE SHELTER

Sheet Title
GENERAL NOTES SHEET 2

Level 1, Building 8
 666 Great South Rd
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 Auckland 1051
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 calibreconsulting.co



Scale (A1 Original)

SCALE NOT APPLICABLE

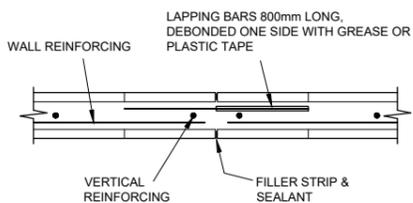
Project No	Sheet	Revision
710471	SN02	B

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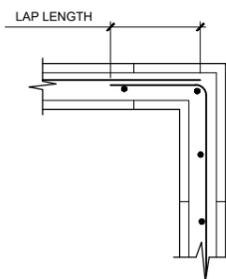
J : MASONRY

1. REINFORCED CONCRETE MASONRY SHALL COMPLY WITH NZS 4230 & NZS 4210
2. MASONRY SHALL BE GRADE B ALL CELLS FILLED MIN. 28 DAYS GROUT STRENGTH 17.5 MPa. REINFORCING COVER MIN 75mm
3. ALL BLOCKS 200 SERIES U.N.O.
4. BLOCKS SHALL BE LAID IN STRETCHER BOND.
5. IF HIGH GROUTING IS USED, CLEAN OUT PORTS SHALL BE PROVIDED AT EVERY VERTICAL BAR, AND AT THE BOTTOM OF EVERY LIFT.
6. MORTAR JOINTS ON EXPOSED WALLS SHALL BE RAKED WITH A HALF ROUND TOOL WHEN MORTAR IS PARTIALLY SET.
7. UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS, MINIMUM SPLICE LAP LENGTH FOR DEFORMED BARS SHALL BE :
40 BAR DIAMETERS FOR GRADE 300 STEEL
70 BAR DIAMETERS FOR GRADE 500 STEEL.
8. ALL OPENINGS SHALL BE TRIMMED WITH HD16 BARS U.N.O.
9. MOVEMENT JOINTS SHALL BE AT MAXIMUM 6m CRS. AT LOCATIONS TO BE AGREED WITH THE ENGINEER AND ARCHITECT.

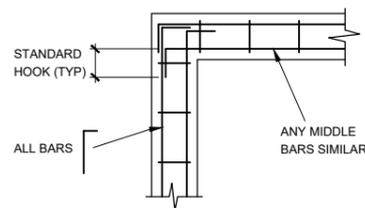
10. PLAN - CONSTRUCTION JOINT :



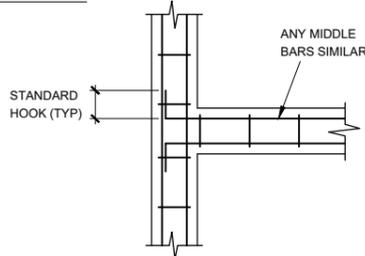
11. PLAN - TYPICAL CORNER DETAIL :



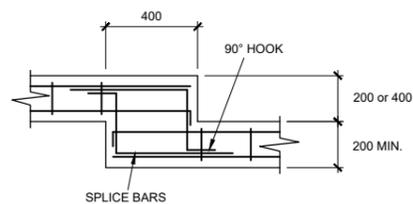
12. PLAN - FOUNDATION CORNER :



13. PLAN - FOUNDATION JUNCTION :



14. ELEVATION - FOUNDATION STEP :



K : FIRE RESISTANCE RATING (FRR)

1. ALL FLOORS, COLUMNS AND BEAMS TO HAVE S=60min. RATING
2. FOR REINFORCED CONCRETE MEMBERS MAIN BAR REINFORCING MINIMUM CONCRETE COVERS FOR FIRE (DURABILITY MAY REQUIRE LARGER COVERS) ARE

	REBAR	PRESTRESSING
SIMPLY SUPPORTED BEAMS	25	40
CONTINUOUS BEAMS (1 END)	15	30
RIBBED FLOOR SLABS	25	40
FLAT FLOOR SLABS	20	35
COLUMNS	45	-
WALLS (130 MIN. THK.)	10	-
3. ALL STEEL MEMBERS (COLUMNS AND BEAMS) SUPPORTING FLOORS OR FLOOR MEMBERS SHALL HAVE AN APPROVED COATING (INTUMESCENT PAINT, FIBRE INSULATION OR EQUIVALENT) TO PROVIDE THE "S" RATING ABOVE AT T_L (LIMITING TEMPERATURE) OF 350° C.
4. ALL STEEL MEMBERS (COLUMNS, BEAMS AND TRUSSES) SUPPORTING THE ROOF, THE EXTERNAL GLAZED FACADE, THE GLAZED ROOF AND MAIN ATRIUM TOWER DO NOT REQUIRE TO BE FIRE RATED.

L : FITOUT AND SERVICES FIXINGS

1. NO FIXINGS ARE TO BE DRILLED OR DRIVEN INTO PRESTRESSED REGIONS OF DOUBLE T's, FLAT SLABS, SHELL BEAMS OR PRESTRESSED BEAMS



M : CONSTRUCTION EQUIPMENT

1. FORK HOISTS OR SIMILAR UP TO 3.5T GROSS VEHICLE WEIGHT OR 2.5T MAX. AXLE LOAD PERMITTED ON GENERAL SLAB AREAS WITH NO OTHER LOADING OR MATERIALS ON THE FLOOR.
2. FORK HOISTS OR SIMILAR UP TO 2.5T GROSS VEHICLE WEIGHT OR 1.5T MAX. AXLE LOAD PERMITTED ON THE WIDE BRIDGES WITH NO OTHER LOADING OR MATERIALS ON FLOOR.
3. MAXIMUM POINT LOAD ON ANY AREA OF FLOOR IS TO BE 1200Kg PROVIDED THERE IS NO OTHER LOADING WITHIN 1.2m EACH SIDE OF THE FLOOR RIB OR IN ANY LOCATION ALONG THE RIB.
4. MAXIMUM LOADING ON FLOORS IS 5kPa (500kg/m²)

N : SAFETY IN DESIGN

1. ALL SUSPENDED BEAMS, FLOORS OR OTHER STRUCTURAL MEMBERS OF FORMWORK SUPPORTING CONCRETE SHALL BE PROPPED FOR A MINIMUM OF 14 DAYS .
2. STRUCTURAL SUPPORTS FOR FALL ARREST SYSTEMS HAVE NOT BEEN PROVIDED IN THE DESIGN FOR EITHER CONSTRUCTION OR BUILDING MAINTENANCE.
3. ALL WORKS AROUND THE BUILDING TO BE SCAFFOLDED

O : SAND COMPACTION

1. SAND IS TO BE FREE OF VEGETATION ETC.
2. SAND IS TO BE INSTALLED IN 200mm LAYERS, FLOODED WITH SEA WATER, THEN COMPACTED BY 3 PASSES OF PF 100 kg VIBRATORING PLATE COMPACTOR

B FOR TENDER
A FOR TENDER

SRG 31.10.17
SRG 29.09.17

Revision	App	Date	Approved	SRG
			TD	Sep-17
			GH	Sep-17
			ND	Sep-17
			SRG	Sep-17

Client
GOVERNMENT OF THE COOK ISLANDS INFRASTRUCTURE COOK ISLANDS

Project Title
PALMERSTON ISLAND NEW CYCLONE SHELTER

Sheet Title
GENERAL NOTES SHEET 3

Level 1, Building 8
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Auckland 1051
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Scale (A1 Original)

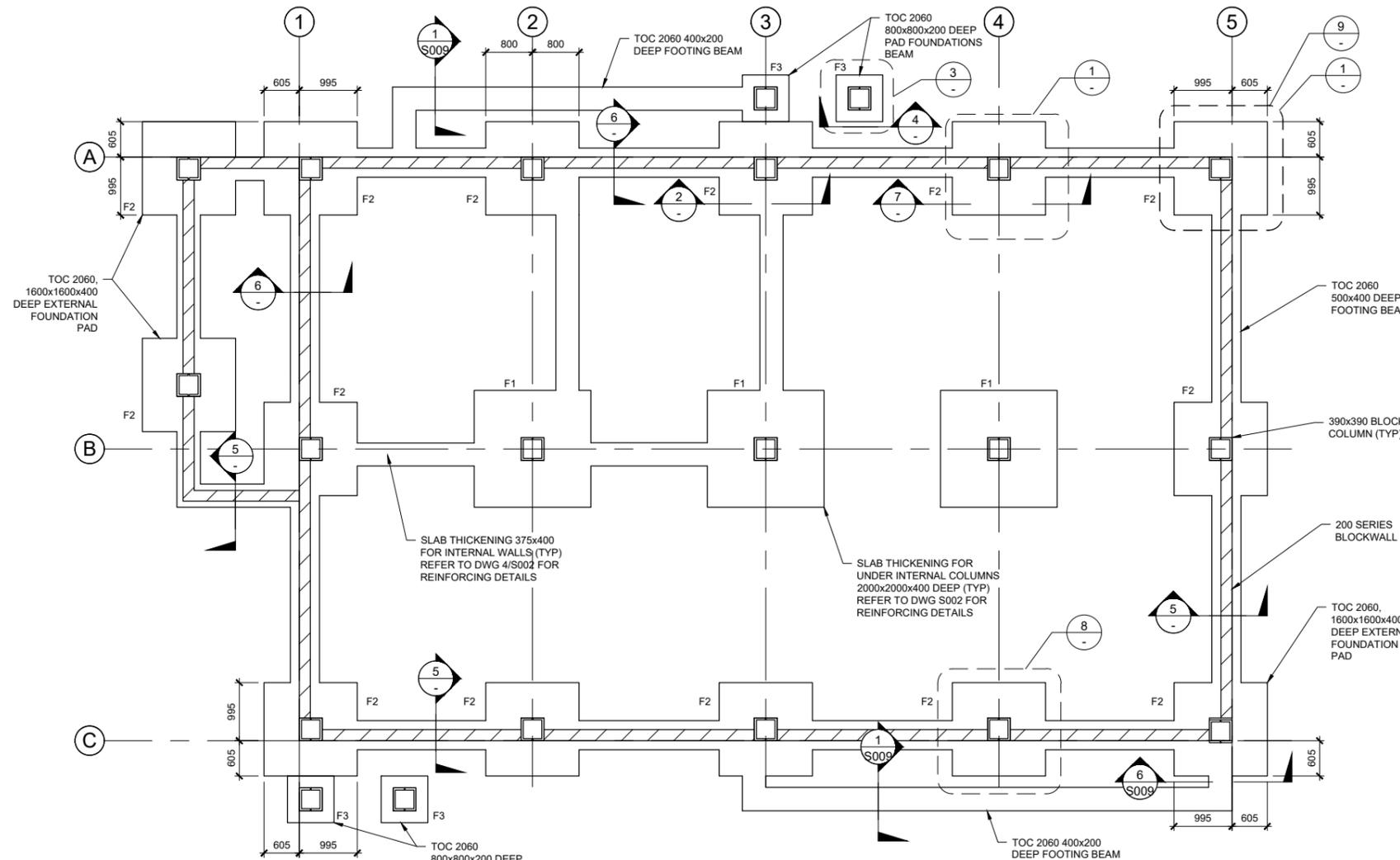
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Project No	Sheet	Revision
710471	SN03	B

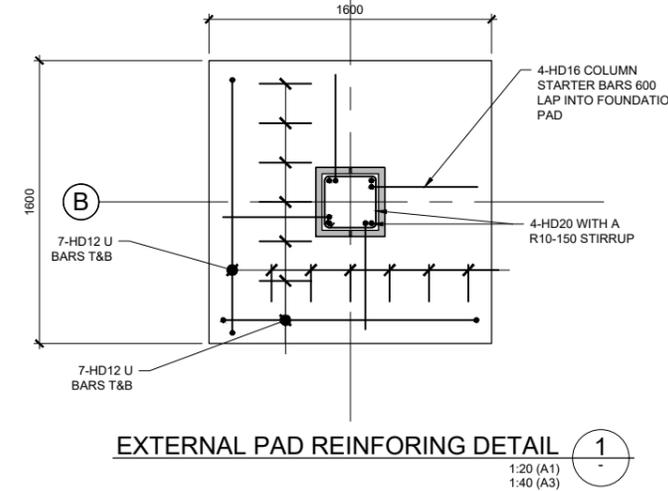
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FOUNDATIONS TABLE	
FOUNDATIONS	SIZE
F1	2000x2000x450
F2	1600x1600x400
F3	800x800x200

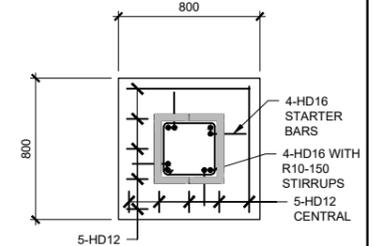
- NOTES:
- REFER TO GENERAL NOTES ON SN01, SN02 AND SN03
 - REFER TO DWG S010 AND S002 FOR BLOCK WALL REINFORCEMENT
 - REFER TO SPECIFICATIONS AND NOTES FOR SAND COMPACTION REQUIREMENTS



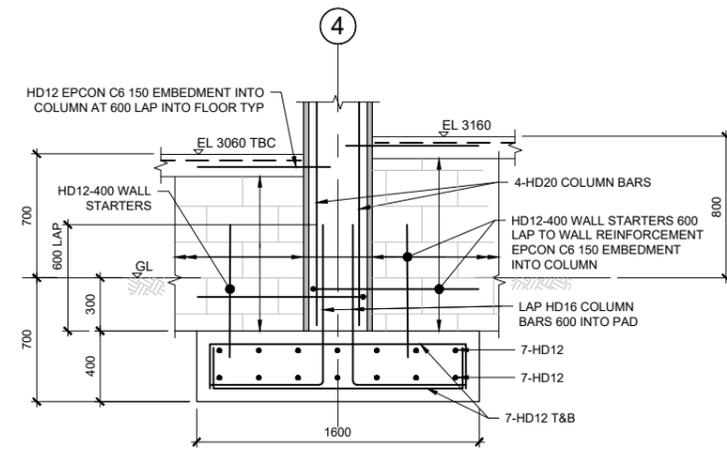
FOUNDATION PLAN
1:50 (A1)
1:100 (A3)



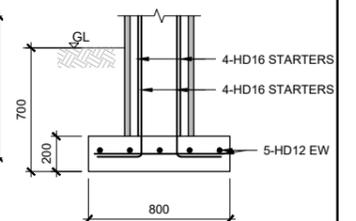
EXTERNAL PAD REINFORING DETAIL 1
1:20 (A1)
1:40 (A3)



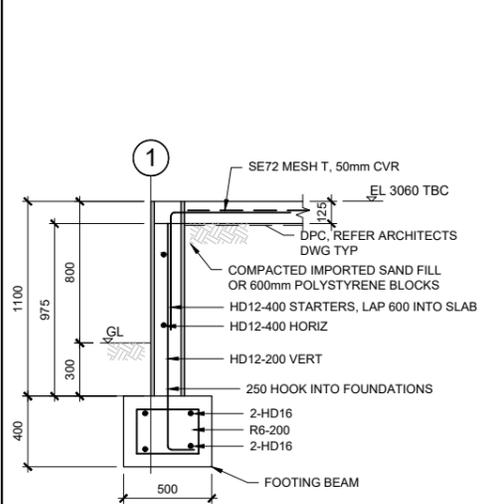
DETAIL 3
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1:40 (A3)



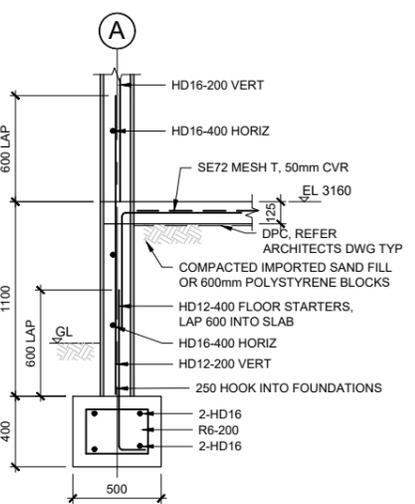
DETAIL 2
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1:40 (A3)



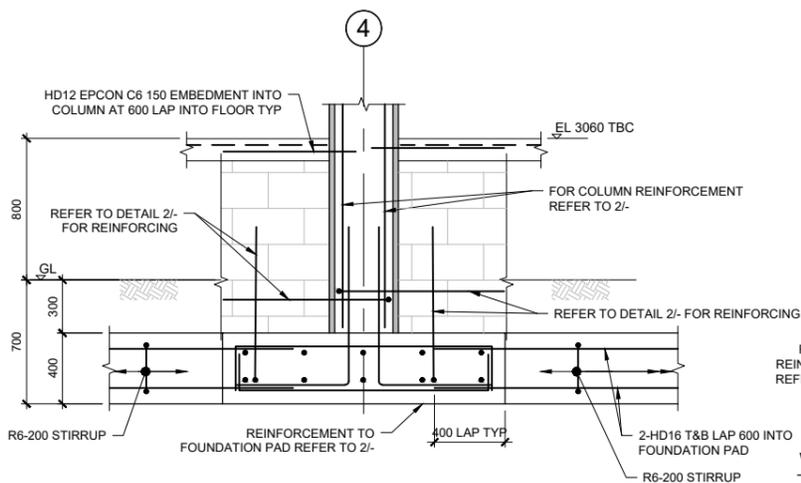
DETAIL 4
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1:40 (A3)



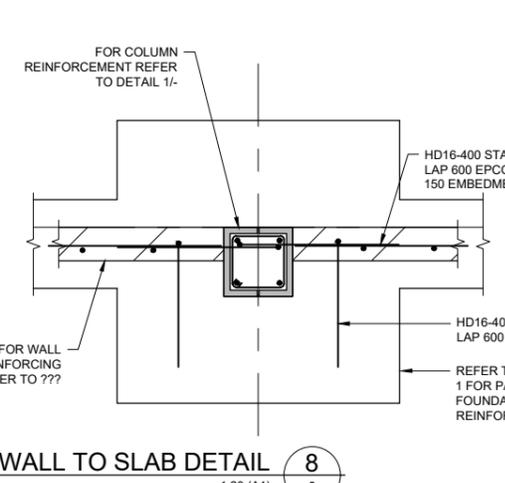
DETAIL 5
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1:40 (A3)



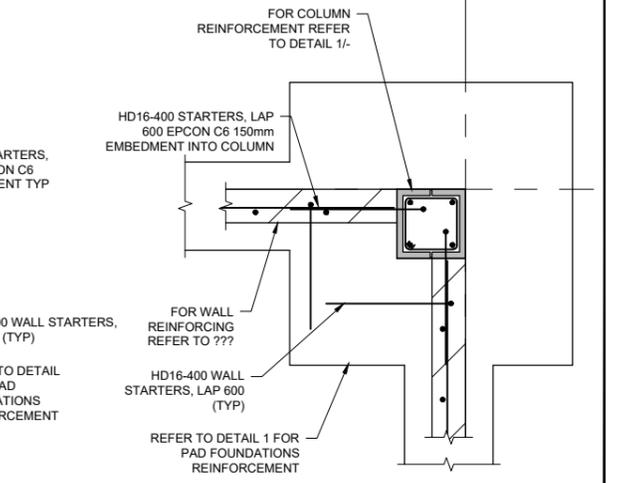
DETAIL 6
1:20 (A1)
1:40 (A3)



DETAIL 7
1:20 (A1)
1:40 (A3)



WALL TO SLAB DETAIL 8
1:20 (A1)
1:40 (A3)



CORNER WALL TO SLAB DETAIL 9
1:20 (A1)
1:40 (A3)

Revision	App	Date	Approved	SRG
C FOR TENDER	SRG		Designed	TD
B FOR TENDER	SRG	31.10.17	Drawn	GH
A FOR TENDER	SRG	29.09.17	Reviewed	ND

Client
GOVERNMENT OF THE COOK ISLANDS INFRASTRUCTURE COOK ISLANDS

Project Title
PALMERSTON ISLAND NEW CYCLONE SHELTER

Sheet Title
FOUNDATIONS PLAN AND DETAILS

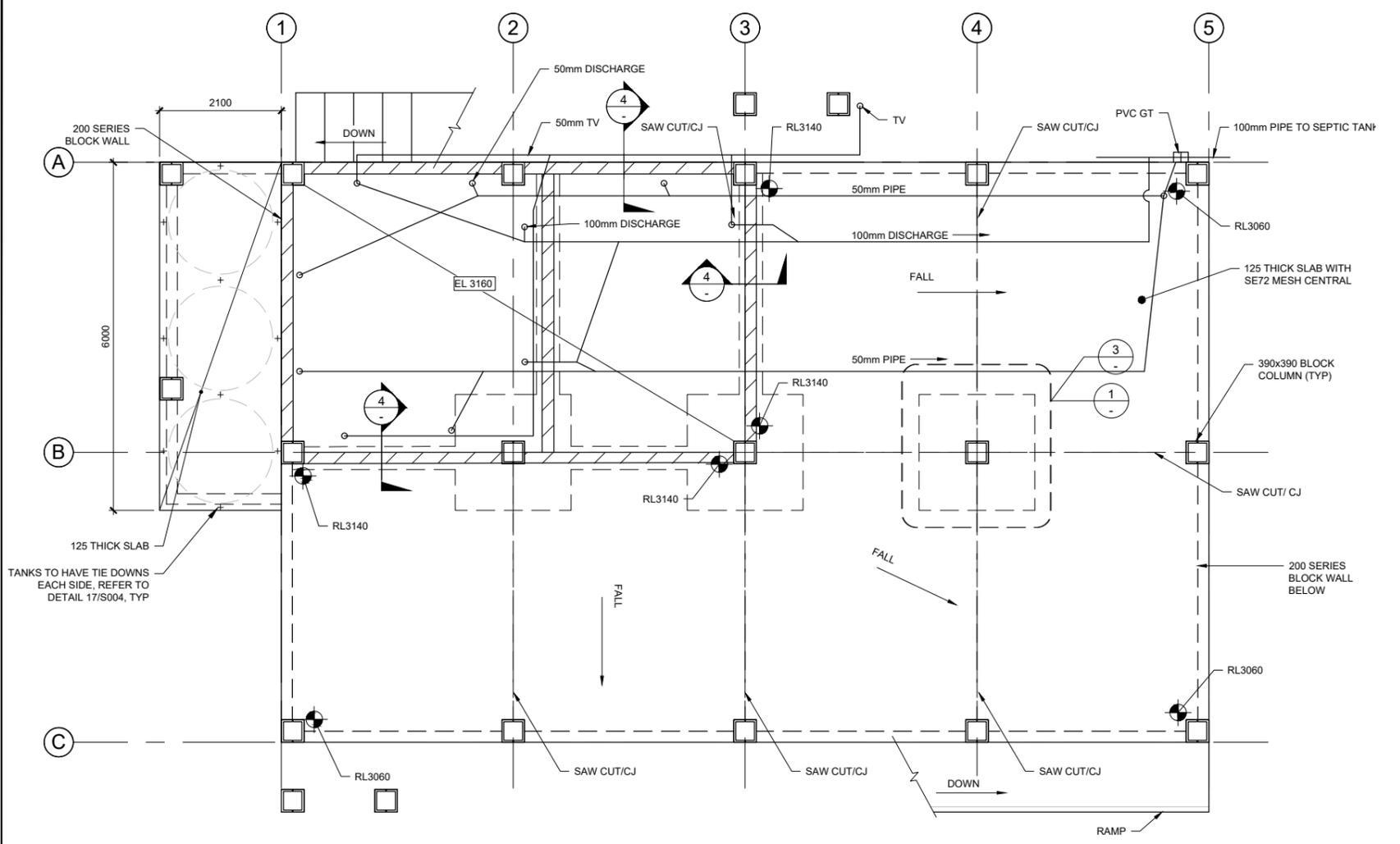
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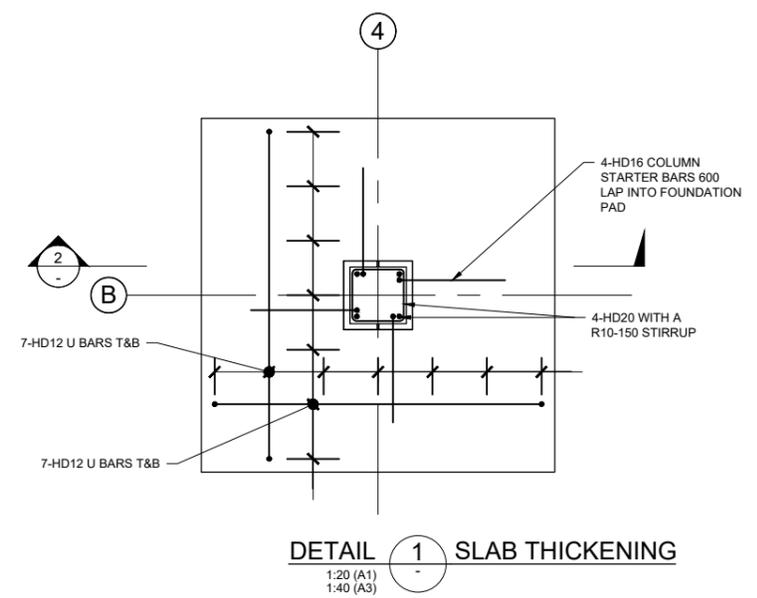
Scale (A1 Original)		
SCALE AS NOTED		
Project No	Sheet	Revision
710471	S001	C

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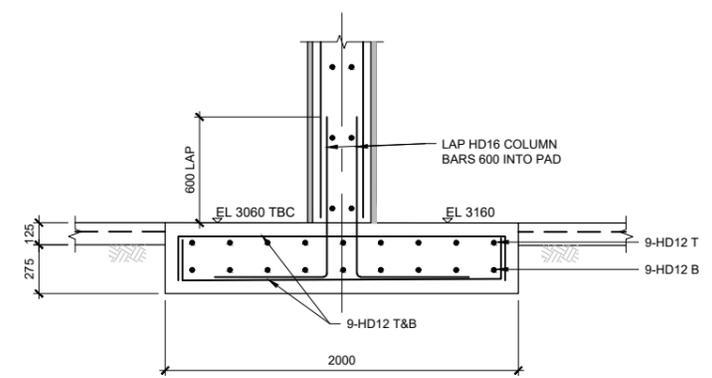
- NOTES:
 1. REFER TO GENERAL NOTES ON SN01, SN02 AND SN03
 2. REFER TO DWG S010 FOR BLOCK WALL REINFORCEMENT



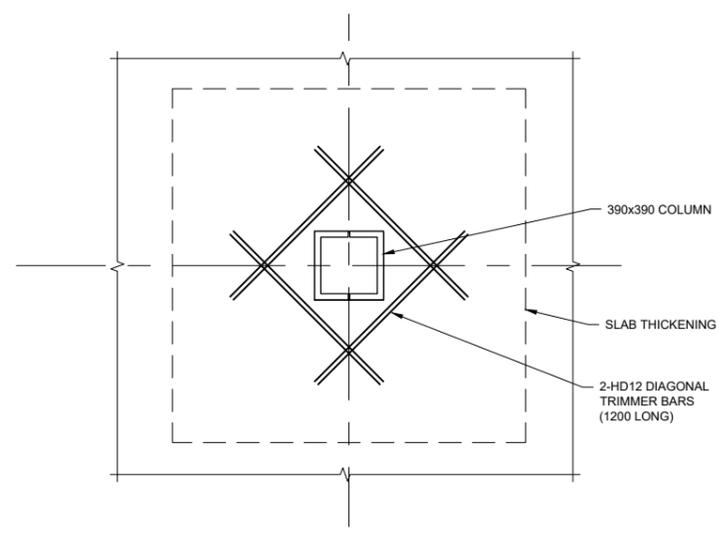
GROUND FLOOR PLAN
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 1:100 (A3)



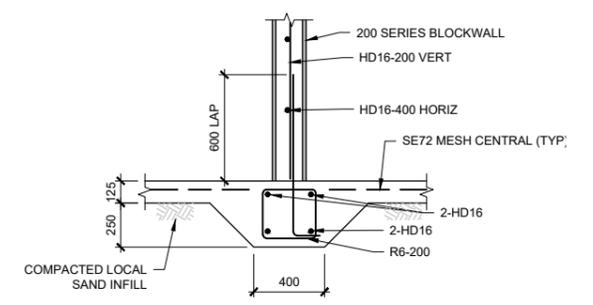
DETAIL 1 SLAB THICKENING
 1:20 (A1)
 1:40 (A3)



DETAIL 2
 1:20 (A1)
 1:40 (A3)



DETAIL 3 SLAB LEVEL
 1:20 (A1)
 1:40 (A3)



DETAIL 4
 1:20 (A1)
 1:40 (A3)

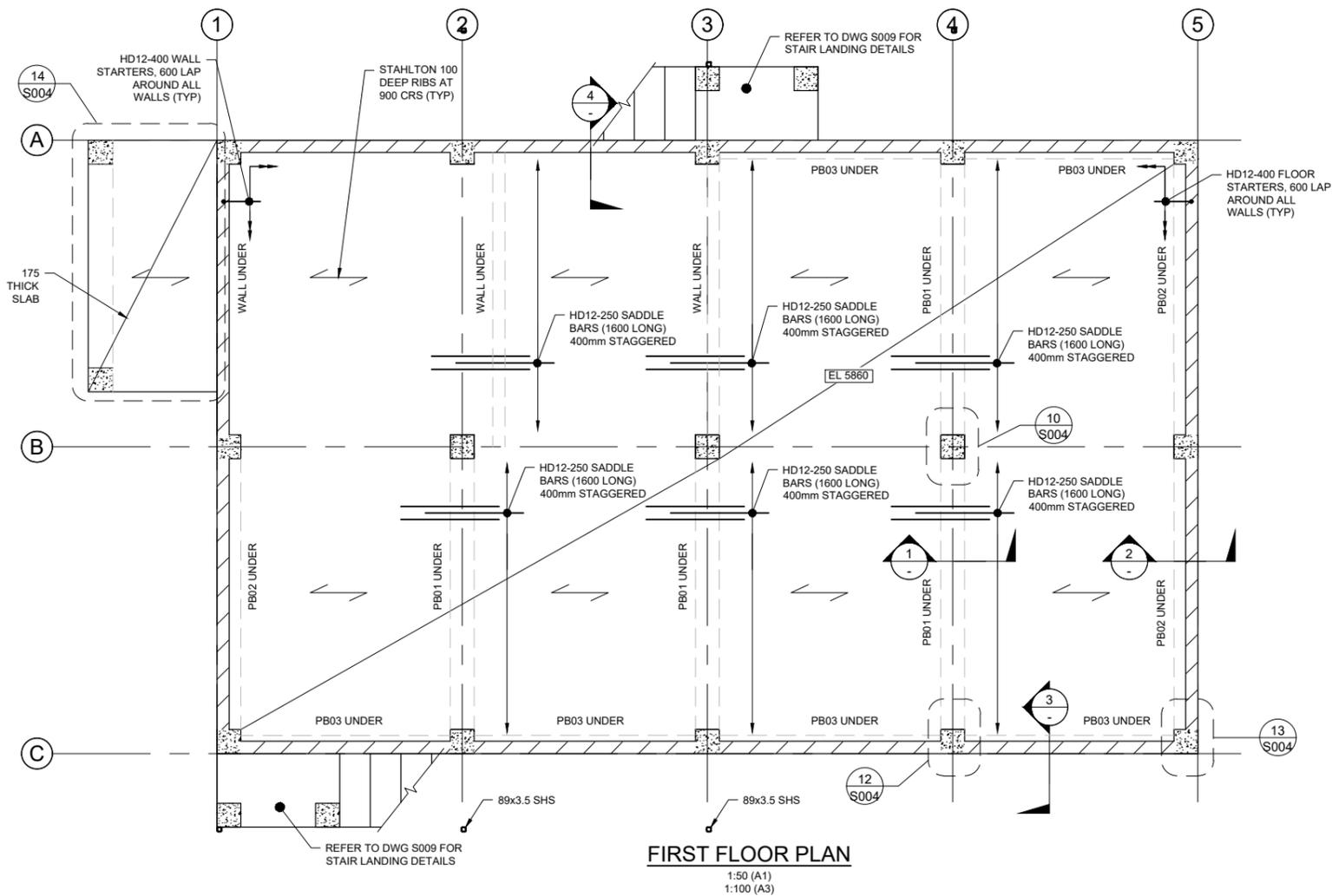
C FOR TENDER B FOR TENDER A FOR TENDER Revision	SRG SRG 31.10.17 SRG 29.09.17 App Date Approved SRG	Surveyed TD Designed GH Drawn ND Reviewed SRG	Client GOVERNMENT OF THE COOK ISLANDS INFRASTRUCTURE COOK ISLANDS	Project Title PALMERSTON ISLAND NEW CYCLONE SHELTER	Sheet Title GROUND FLOOR PLAN, AND DETAILS	Level 1, Building 8 666 Great South Rd Ellerslie, Auckland 1051 +64 9 525 9770 calibreconsulting.co	Scale (A1 Original) SCALE AS NOTED Project No 710471 Sheet S002 Revision C
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PRECAST BEAM TABLE

BEAM	BEAM SIZE
PB01	390x450
PB02	390x450
PB03	300x450

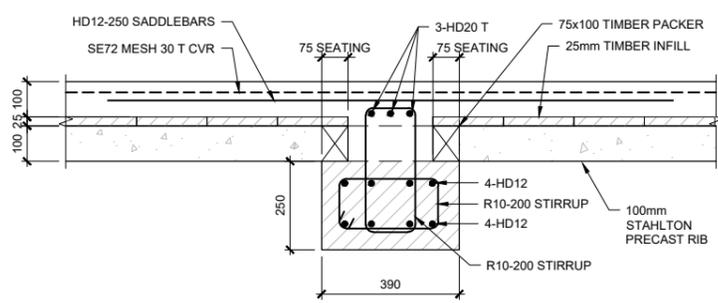
- NOTES:
- REFER TO GENERAL NOTES ON SN01, SN02 AND SN03
 - PRECAST BEAMS CAN BE CAST IN-SITU ON SITE AS REQUIRED.
 - BEAMS IF PRECAST SHALL BE PROPPED DURING CONSTRUCTION UNTIL FLOOS SLAB IS CURED.



FIRST FLOOR PLAN

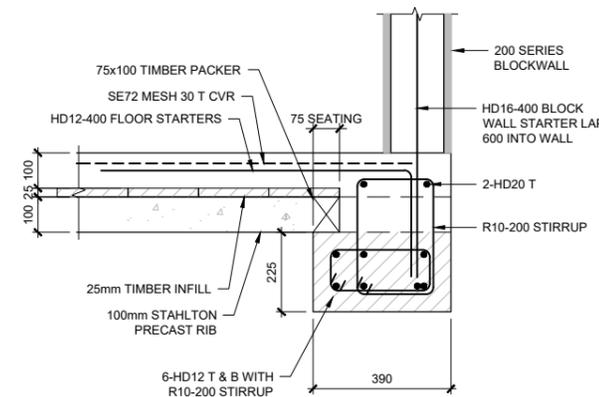
1:50 (A1)
1:100 (A3)

NOTE:
REFER TO ARCHITECTURAL DRAWINGS FOR OPENING.
WINDOWS/OPENINGS TO HAVE SET DOWN REFER TO ARCHITECT.



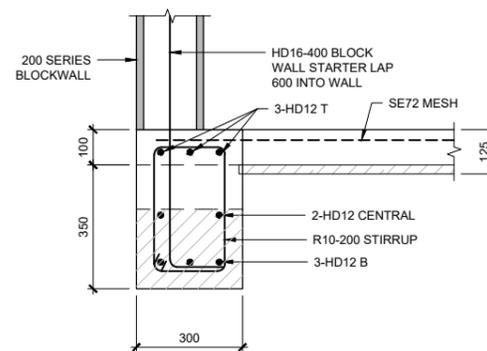
TYP PB01 DETAIL

1:10 (A1)
1:20 (A3)



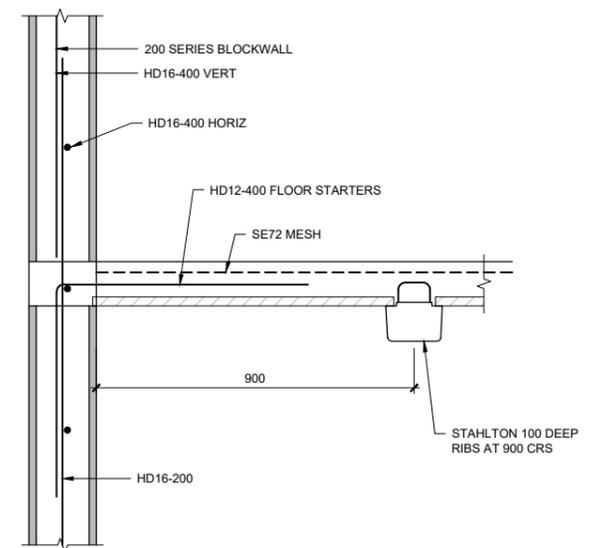
TYPE PB02 DETAIL

1:10 (A1)
1:20 (A3)



TYPE PB03 DETAIL

1:10 (A1)
1:20 (A3)



WALL TO FLOOR

1:10 (A1)
1:20 (A3)

B FOR TENDER
A FOR TENDER

Revision	App	Date	Approved	SRG
B FOR TENDER	SRG	31.10.17	TD	Sep-17
A FOR TENDER	SRG	29.09.17	GH	Sep-17
			ND	Sep-17
			SRG	Sep-17

Client
GOVERNMENT OF THE COOK ISLANDS INFRASTRUCTURE COOK ISLANDS

Project Title
PALMERSTON ISLAND NEW CYCLONE SHELTER

Sheet Title
FIRST FLOOR PLAN, AND DETAILS SHEET 1

Level 1, Building 8
666 Great South Rd
Ellerslie,
Auckland 1051
+64 9 525 9770
calibreconsulting.co



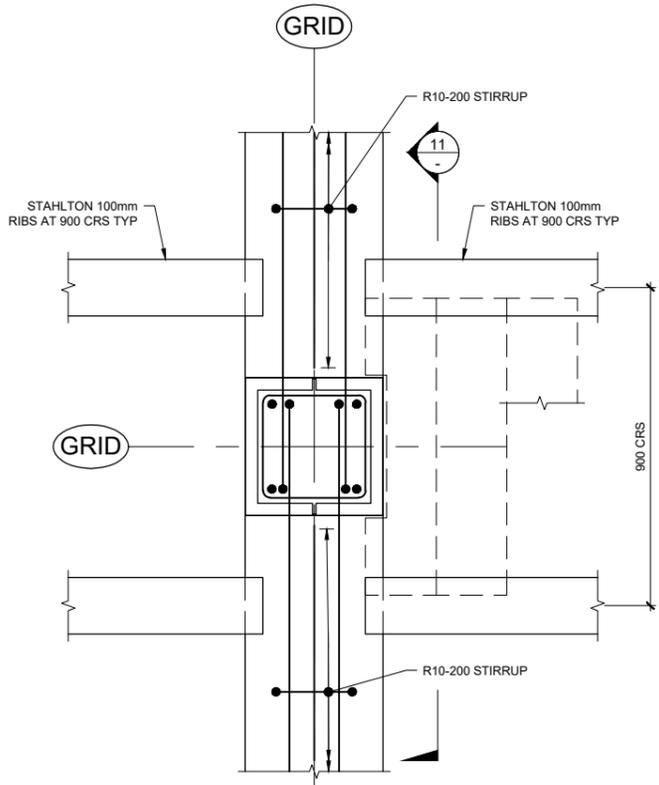
Scale (A1 Original)		
SCALE AS NOTED		
Project No	Sheet	Revision
710471	S003	B

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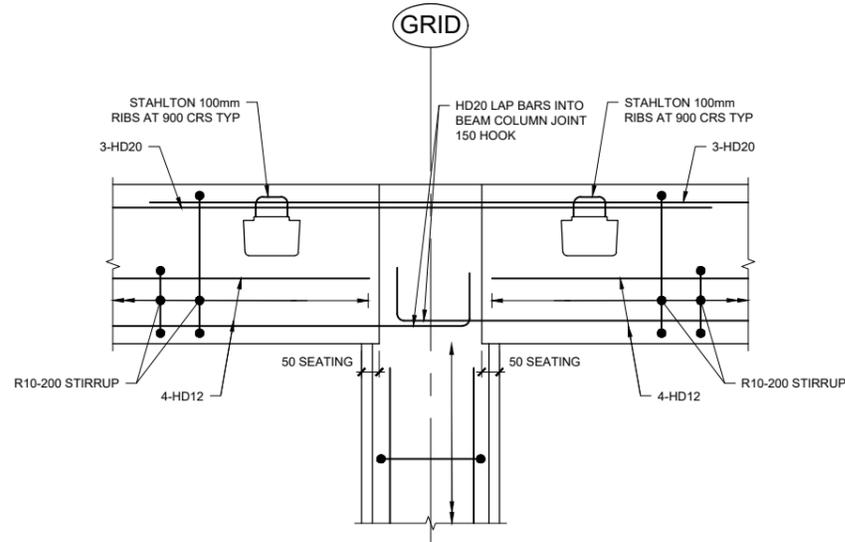
PRECAST BEAM TABLE

BEAM	BEAM SIZE
PB01	390x450
PB02	390x450
PB03	300x450

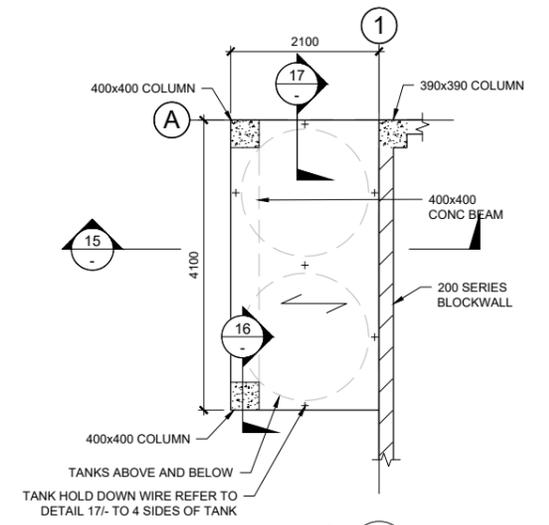
- NOTES:
- REFER TO GENERAL NOTES ON SN01, SN02 AND SN03
 - PRECAST BEAMS CAN BE CAST IN-SITU ON SITE AS REQUIRED.
 - BEAMS IF PRECAST SHALL BE PROPPED DURING CONSTRUCTION UNTIL FLOOS SLAB IS CURED.



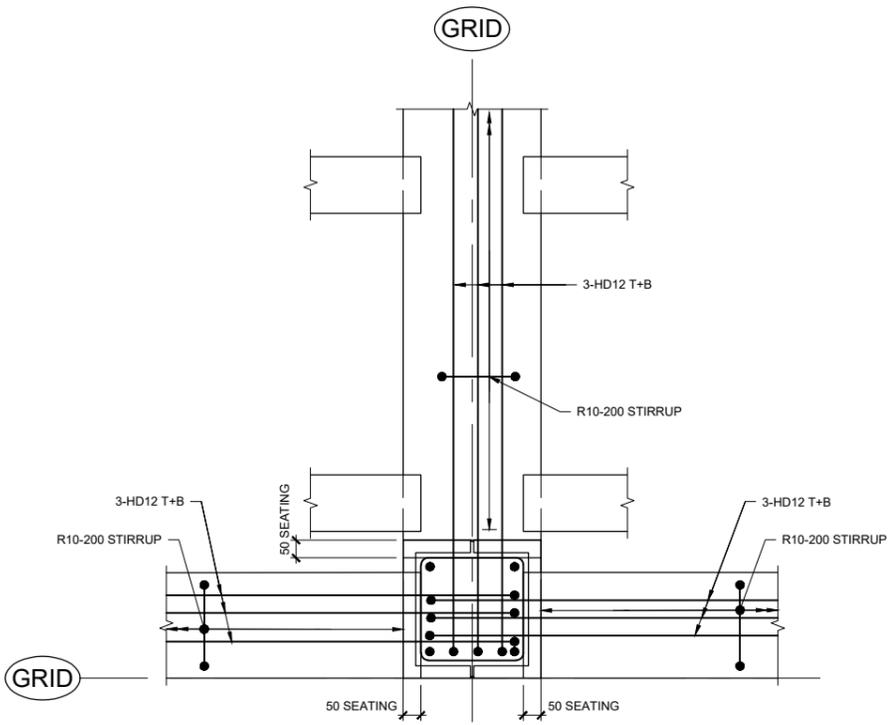
BEAM TO COLUMN 10
1:10 (A1)
1:20 (A3)
S003



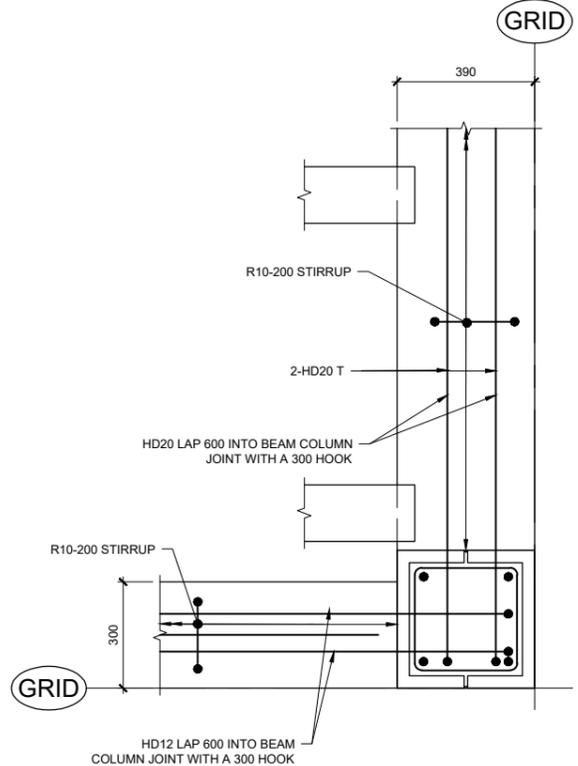
DETAIL 11
1:10 (A1)
1:20 (A3)



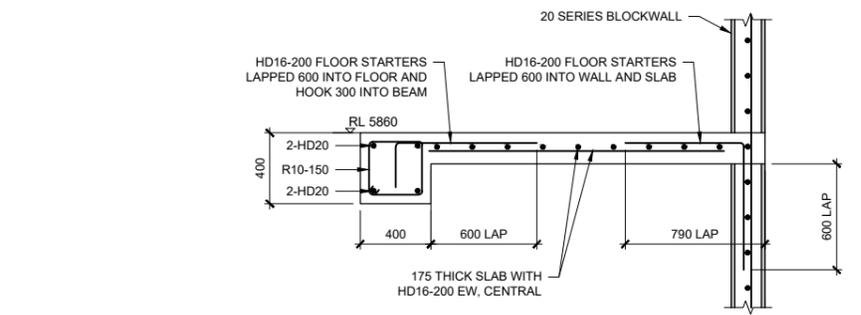
DETAILS 14
1:50 (A1)
1:100 (A3)
S003



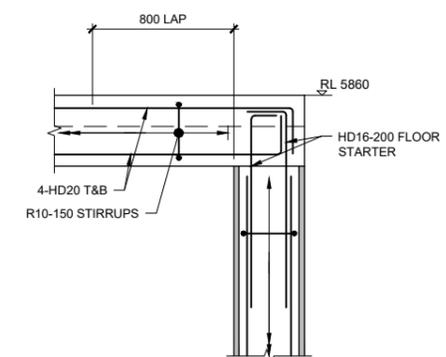
BEAM TO COLUMN 12
1:10 (A1)
1:20 (A3)



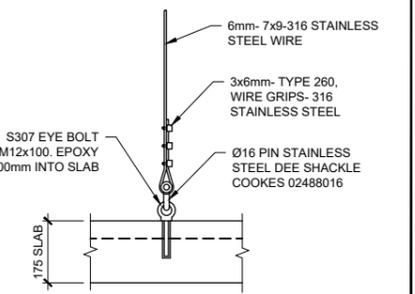
BEAM TO COLUMN 13
1:10 (A1)
1:20 (A3)



DETAIL 15
1:20 (A1)
1:40 (A3)



DETAIL 16
1:20 (A1)
1:40 (A3)



TANK HOLD DOWN WIRE DETAIL 17
1:10 (A1)
1:20 (A3)

Revision	App	Date	Approved	SRG	Surveyed	Designed	TD	Drawn	GH	Reviewed	ND
B FOR TENDER	SRG	31.10.17									
A FOR TENDER	SRG	29.09.17									

Client
GOVERNMENT OF THE COOK ISLANDS INFRASTRUCTURE COOK ISLANDS

Project Title
PALMERSTON ISLAND NEW CYCLONE SHELTER

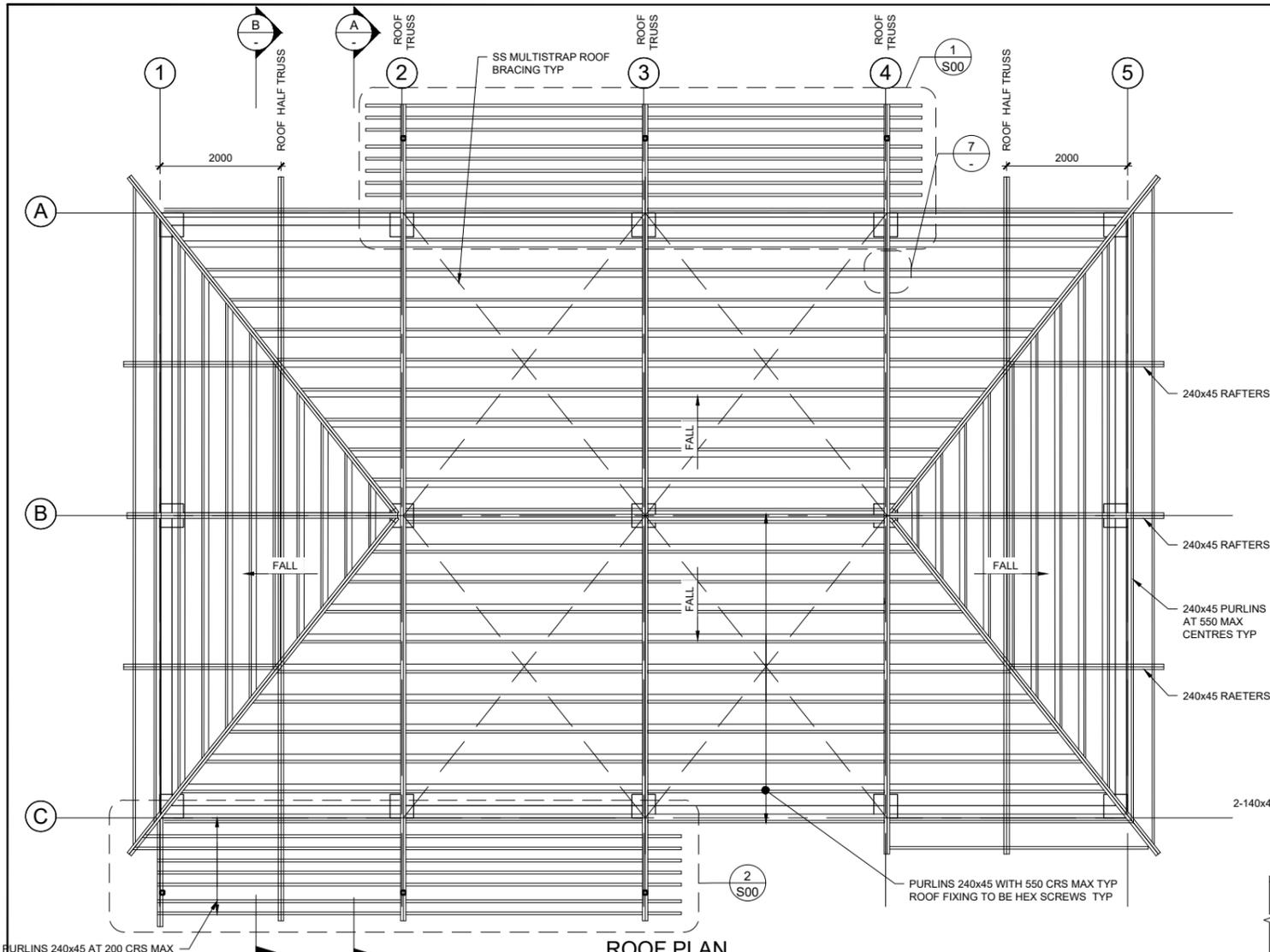
Sheet Title
FIRST FLOOR DETAILS SHEET 2

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666 Great South Rd
Ellerslie,
Auckland 1051
+64 9 525 9770
calibreconsulting.co

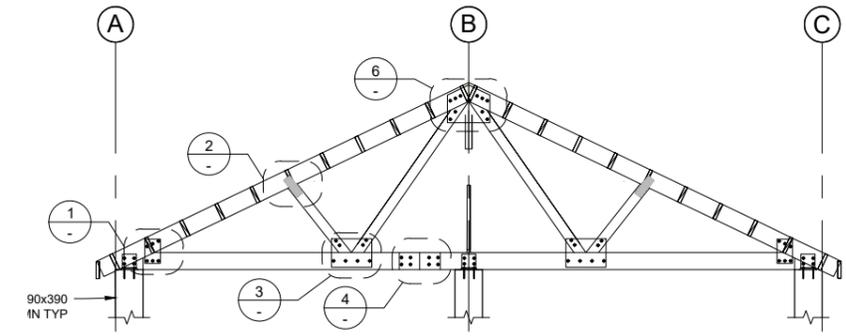


Project No	Sheet	Revision
710471	S004	B

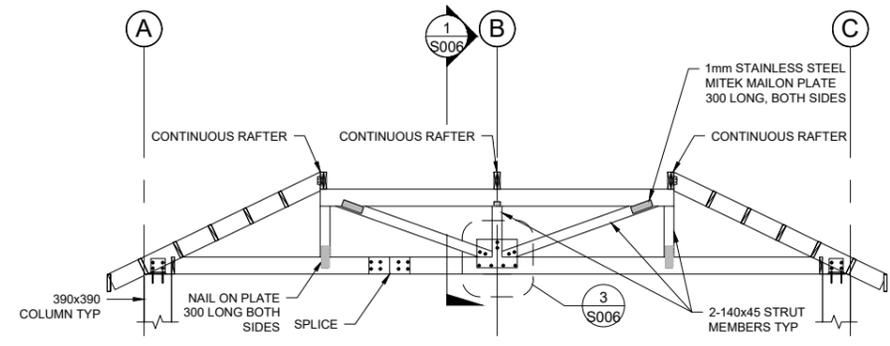
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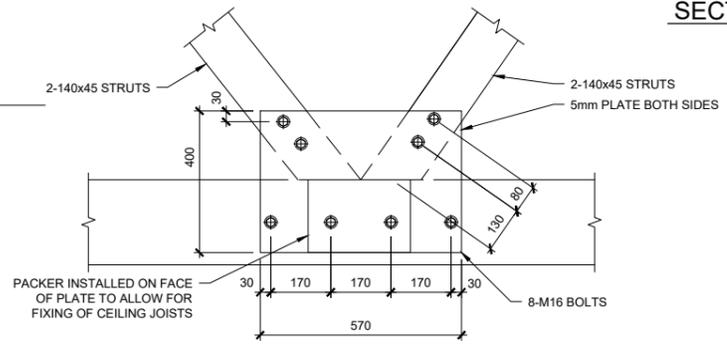
ROOF PLAN
1:50 (A1)
1:100 (A3)



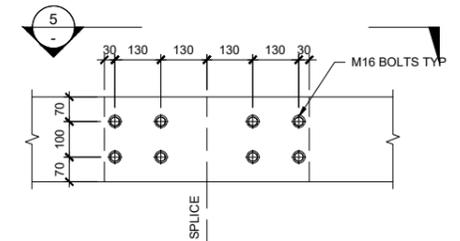
SECTION A ROOF TRUSS
1:50 (A1)
1:100 (A3)



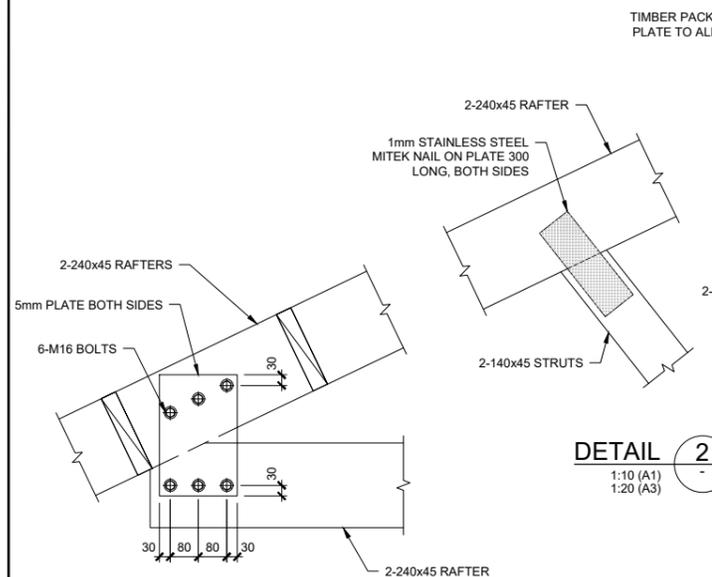
SECTION B HALF ROOF TRUSS
1:50 (A1)
1:100 (A3)



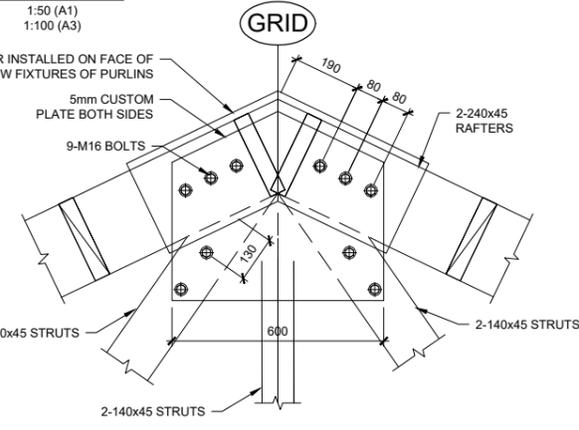
DETAIL 3
1:10 (A1)
1:20 (A3)



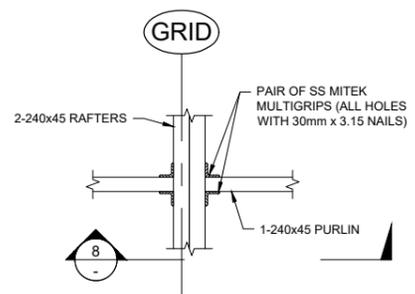
DETAIL 4
1:10 (A1)
1:20 (A3)



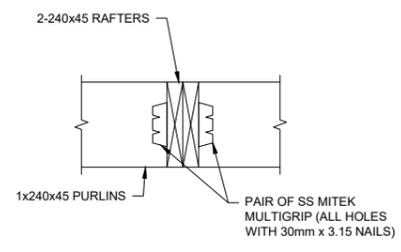
DETAIL 1
1:10 (A1)
1:20 (A3)



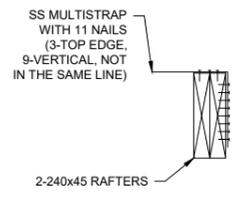
DETAIL 2
1:10 (A1)
1:20 (A3)



DETAIL 7
1:10 (A1)
1:20 (A3)



DETAIL 8
1:10 (A1)
1:20 (A3)

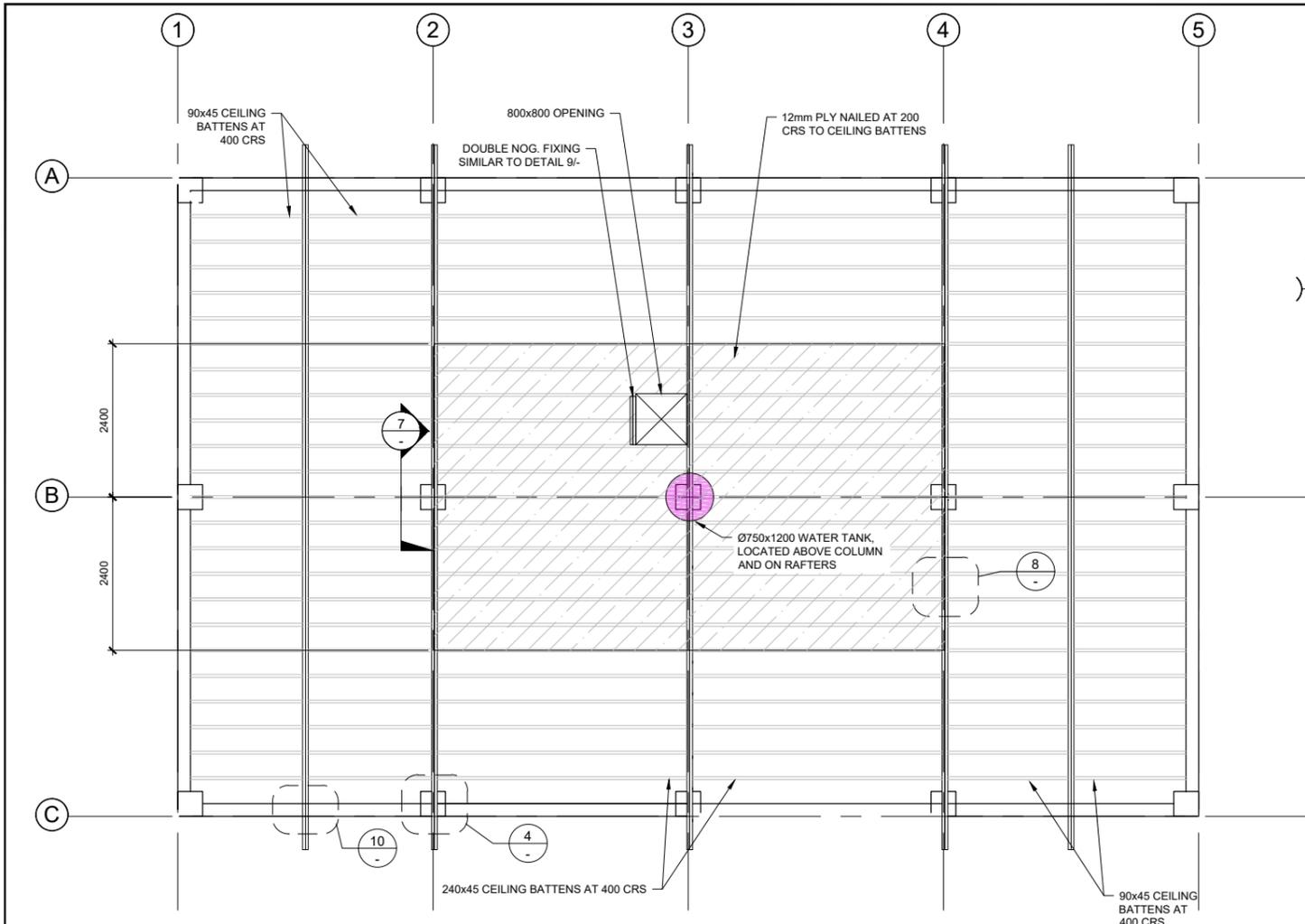


DETAIL 9
1:10 (A1)
1:20 (A3)

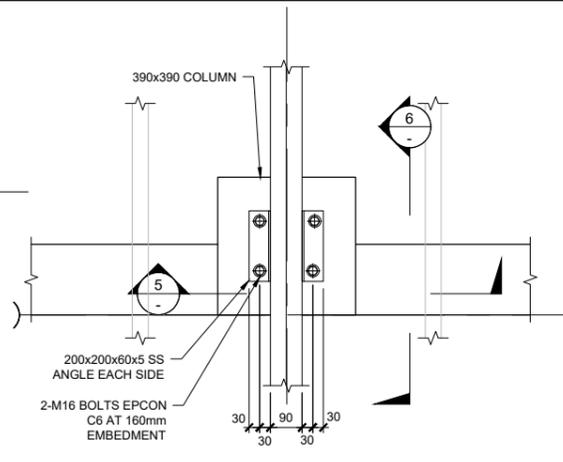
- NOTES:**
1. REFER TO GENERAL NOTES ON SN01, SN02 AND SN03
 2. ALL BOLTS TO BE STAINLESS STEEL UNLESS NOTED OTHERWISE
 3. ALL STEEL PLATES AND FIXINGS ARE TO BE STAINLESS STEEL UNLESS NOTED OTHERWISE
 4. TRUSSES TO BE EITHER ERECTED FULLY BOLTED OR PROPPED PRIOR TO BOLTING

B FOR TENDER	SRG 31.10.17	Designed TD	Sep-17	Client GOVERNMENT OF THE COOK ISLANDS INFRASTRUCTURE COOK ISLANDS	Project Title PALMERSTON ISLAND NEW CYCLONE SHELTER	Sheet Title UPPER ROOF PLAN, AND DETAILS	Level 1, Building 8 666 Great South Rd Ellerslie, Auckland 1051 +64 9 525 9770 calibreconsulting.co		Scale (A1 Original) SCALE AS NOTED Project No 710471 Sheet S005 Revision B
A FOR TENDER	SRG 29.09.17	Drawn GH	Sep-17						
Revision	App Date	Reviewed ND	Sep-17						
		Approved SRG	Sep-17						

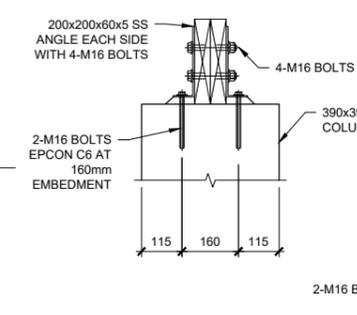
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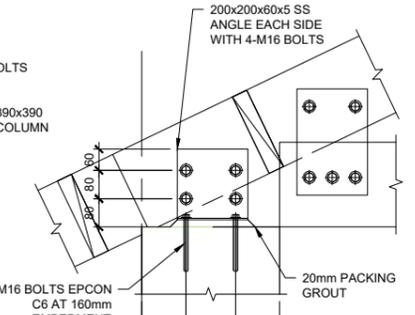
CEILING PLAN
1:50 (A1)
1:100 (A3)



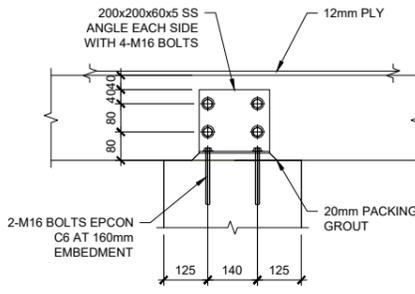
DETAIL 4
1:10 (A1)
1:20 (A3)



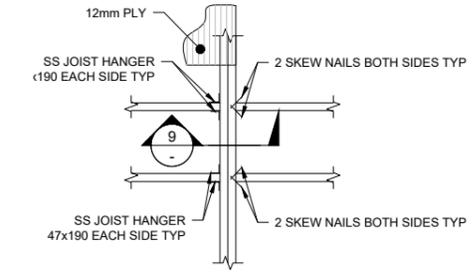
DETAIL 5
1:10 (A1)
1:20 (A3)



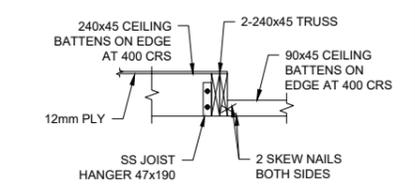
DETAIL 6
1:10 (A1)
1:20 (A3)



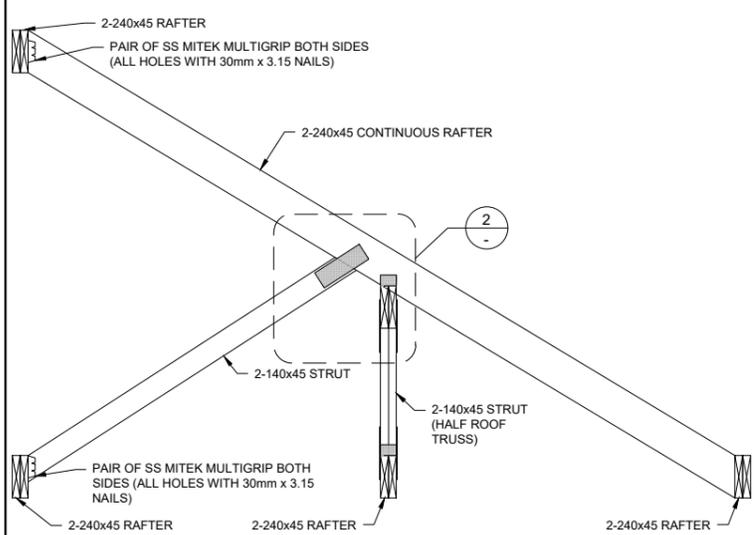
DETAIL 7
1:10 (A1)
1:20 (A3)



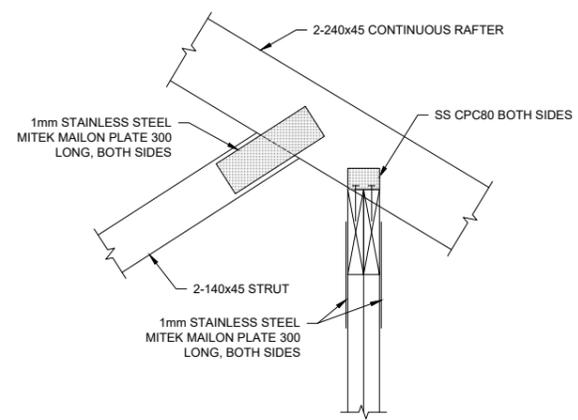
DETAIL 8
1:20 (A1)
1:40 (A3)



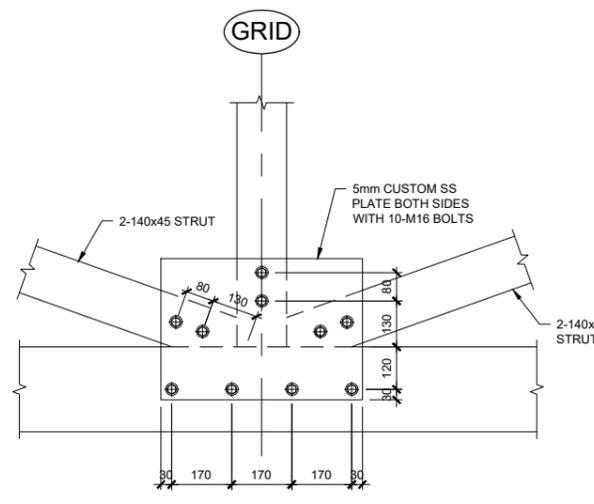
DETAIL 9
1:20 (A1)
1:40 (A3)



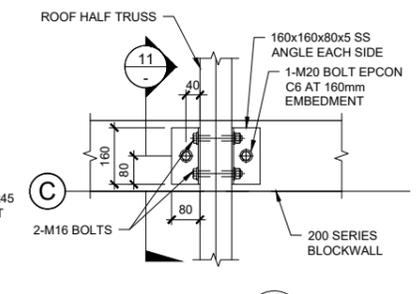
DETAIL 1
1:20 (A1)
1:40 (A3)



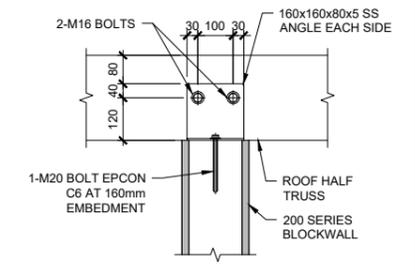
DETAIL 2
1:10 (A1)
1:20 (A3)



DETAIL 3
1:10 (A1)
1:20 (A3)



DETAIL 10
1:10 (A1)
1:20 (A3)



DETAIL 11
1:10 (A1)
1:20 (A3)

- NOTES:
1. REFER TO GENERAL NOTES ON SN01, SN02 AND SN03
2. ALL BOLTS TO BE STAINLESS STEEL UNLESS NOTED OTHERWISE.
3. ALL STEEL PLATES AND FIXINGS ARE TO BE STAINLESS STEEL UNLESS NOTED OTHERWISE.

B FOR TENDER	SRG 31.10.17	Designed TD	Sep-17
A FOR TENDER	SRG 29.09.17	Drawn GH	Sep-17
Revision	App Date	Reviewed ND	Sep-17
		Approved SRG	Sep-17

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Client
GOVERNMENT OF THE COOK ISLANDS INFRASTRUCTURE COOK ISLANDS

Project Title
PALMERSTON ISLAND NEW CYCLONE SHELTER

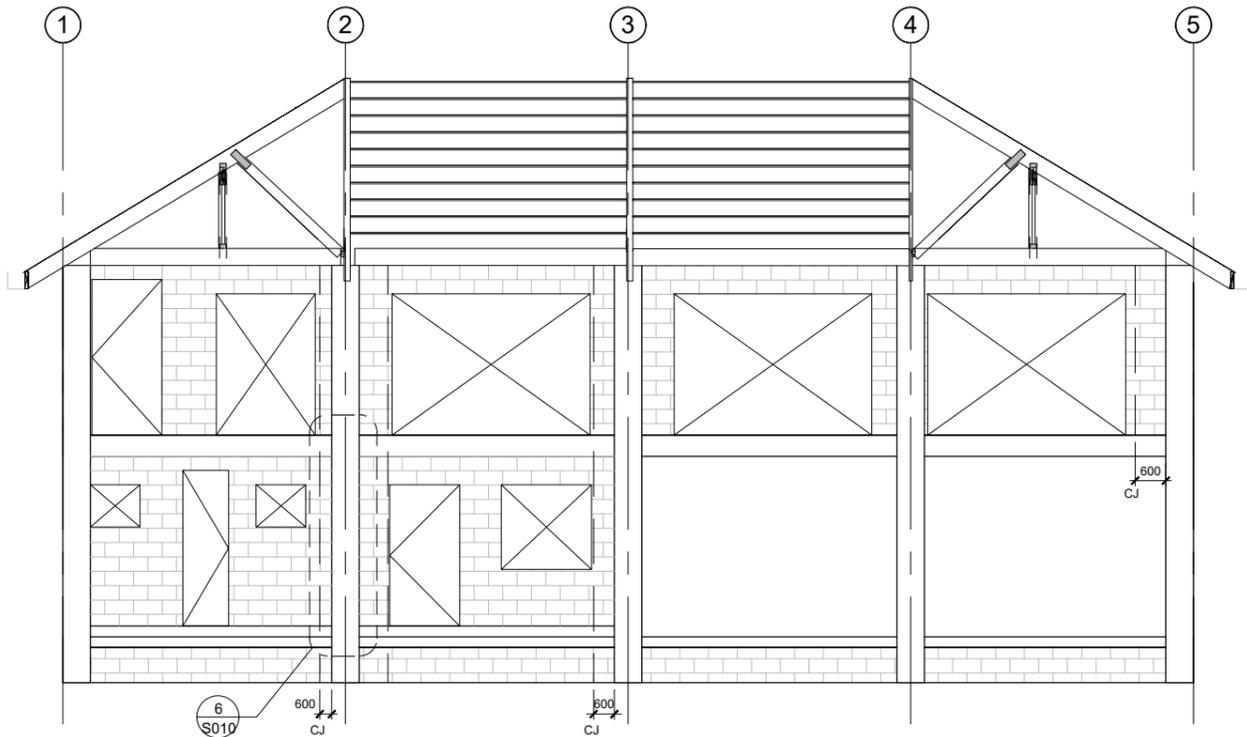
Sheet Title
LOWER ROOF PLAN, AND DETAILS

Level 1, Building 8
666 Great South Rd
Ellerslie,
Auckland 1051
+64 9 525 9770
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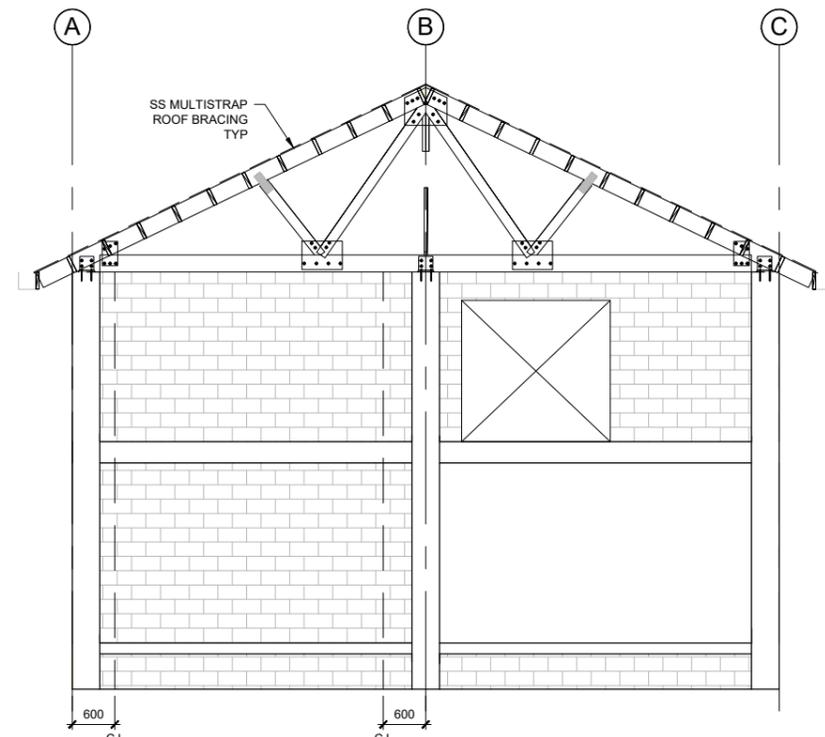


Scale (A1 Original)
SCALE AS NOTED

Project No	Sheet	Revision
710471	S006	B

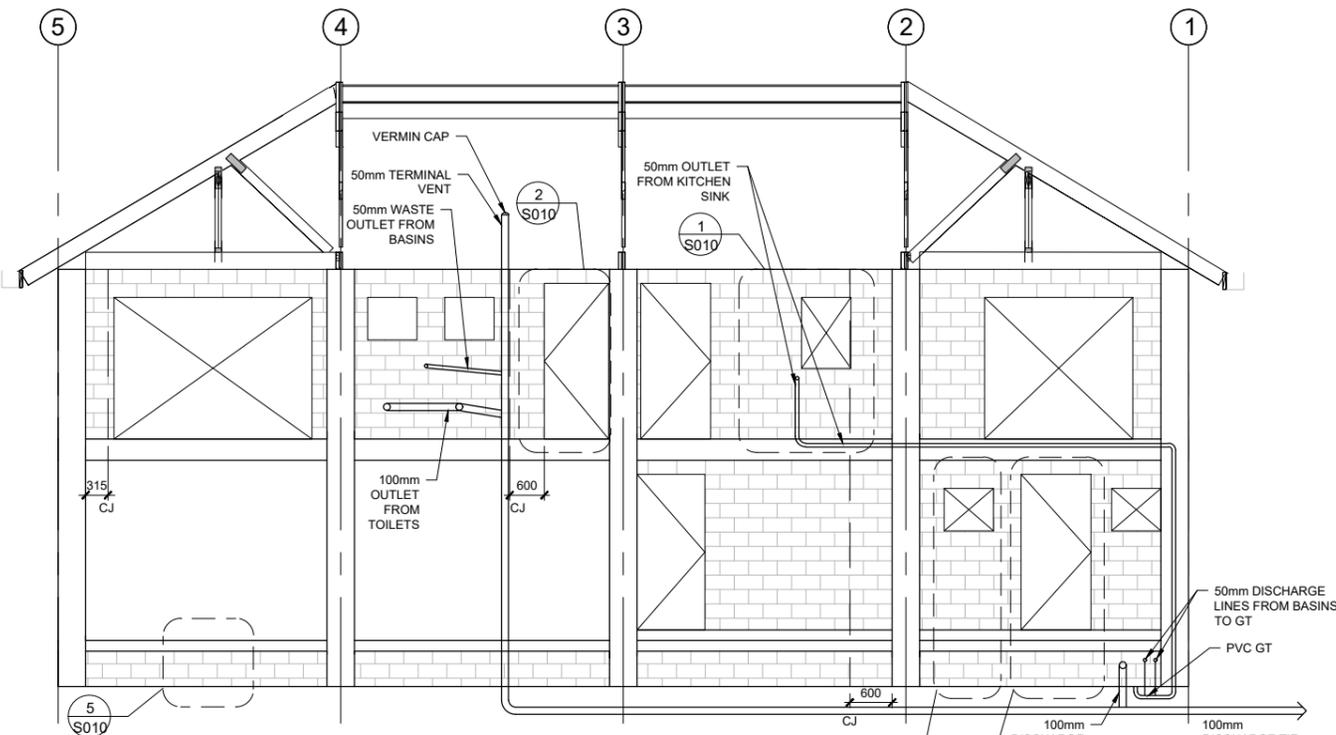


EAST ELEVATION
1:50 (A1)
1:100 (A3)

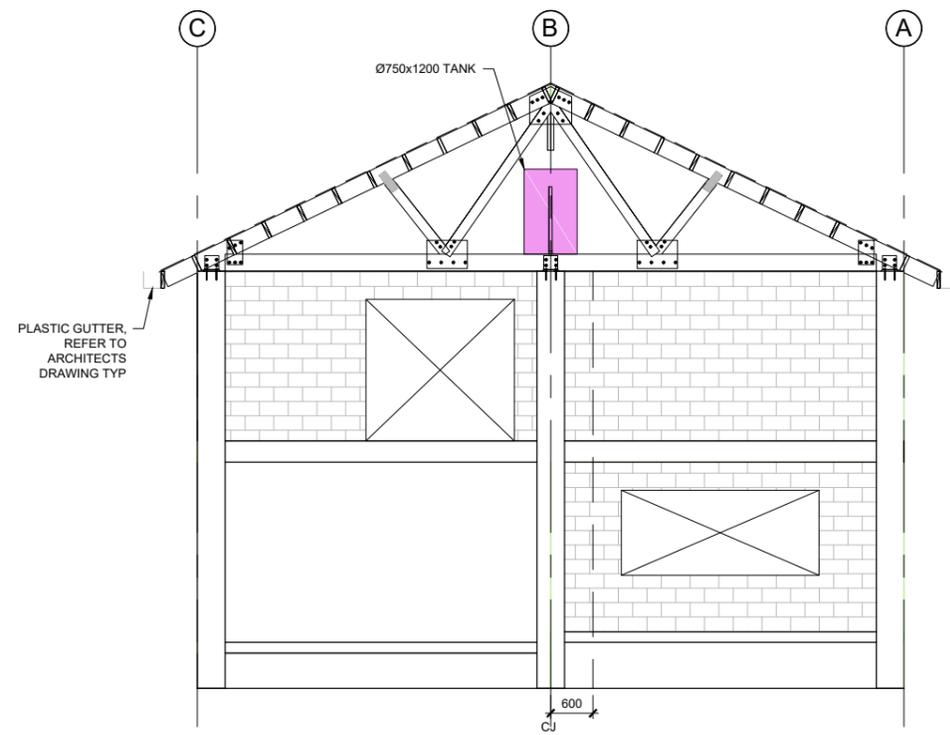


SOUTH ELEVATION
1:50 (A1)
1:100 (A3)

NOTES:
1. REFER TO GENERAL NOTES ON SN01, SN02 AND SN03



WEST ELEVATION
1:50 (A1)
1:100 (A3)



NORTH ELEVATION
1:50 (A1)
1:100 (A3)

Revision	App	Date	Approved	SRG
B FOR TENDER	SRG	31.10.17	TD	Sep-17
A FOR TENDER	SRG	29.09.17	GH	Sep-17
			ND	Sep-17
			SRG	Sep-17

Client
GOVERNMENT OF THE COOK ISLANDS INFRASTRUCTURE COOK ISLANDS

Project Title
PALMERSTON ISLAND NEW CYCLONE SHELTER

Sheet Title
ELEVATIONS

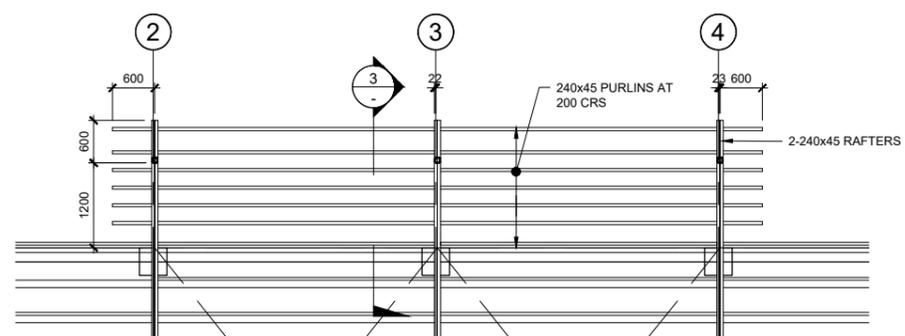
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Ellerslie,
Auckland 1051
+64 9 525 9770
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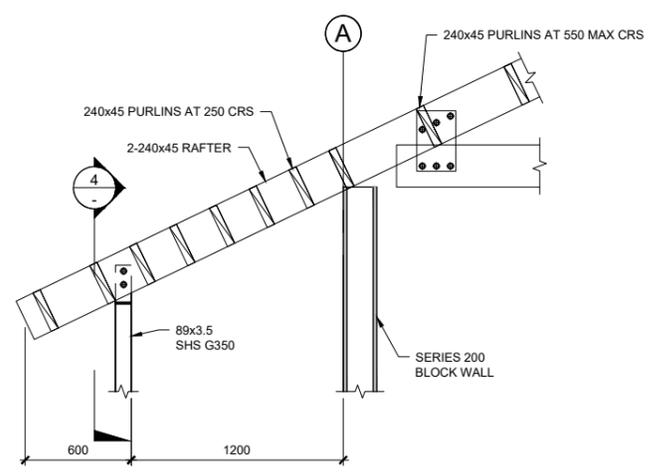
Scale (A1 Original)		
SCALE AS NOTED		
Project No	Sheet	Revision
710471	S007	B

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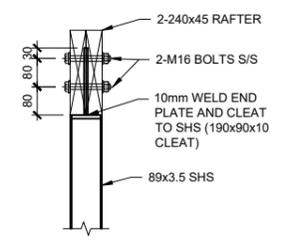
- NOTES:
- REFER TO GENERAL NOTES ON SN01, SN02 AND SN03
 - ALL STRUCTURAL STEEL TO BE HOT DIPPED GALVANIZED HDG600 TO AS2312 FOR EXPOSURE CLASS E-M



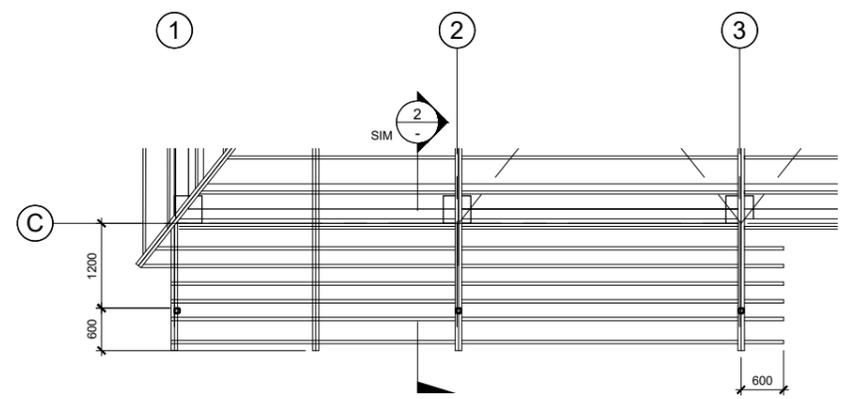
DETAIL 1
1:50 (A1)
1:100 (A3) S005



DETAIL 3
1:20 (A1)
1:40 (A3)



DETAILS 4
1:10 (A1)
1:20 (A3)



DETAIL 2
1:50 (A1)
1:100 (A3) S005

Revision	B FOR TENDER	SRG	31.10.17	Designed	TD	Sep-17
	A FOR TENDER	SRG	29.09.17	Drawn	GH	Sep-17
				Reviewed	ND	Sep-17
				App	SRG	Sep-17

Client
GOVERNMENT OF THE COOK ISLANDS INFRASTRUCTURE COOK ISLANDS

Project Title
PALMERSTON ISLAND NEW CYCLONE SHELTER

Sheet Title
AWNING DETAILS

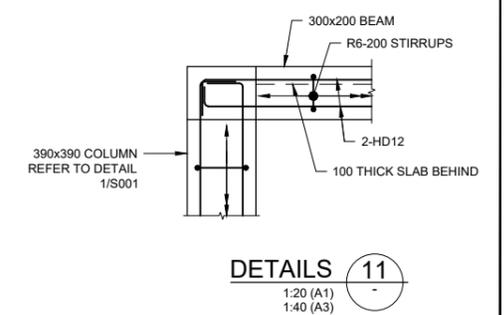
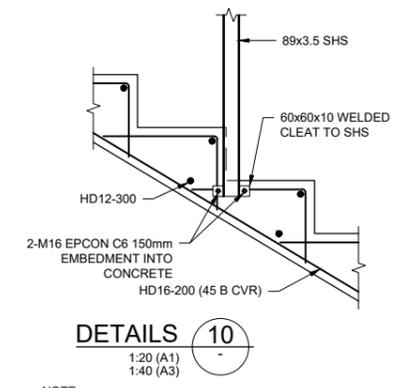
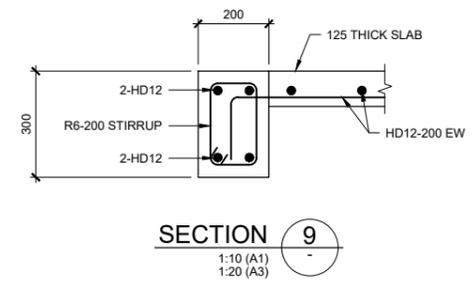
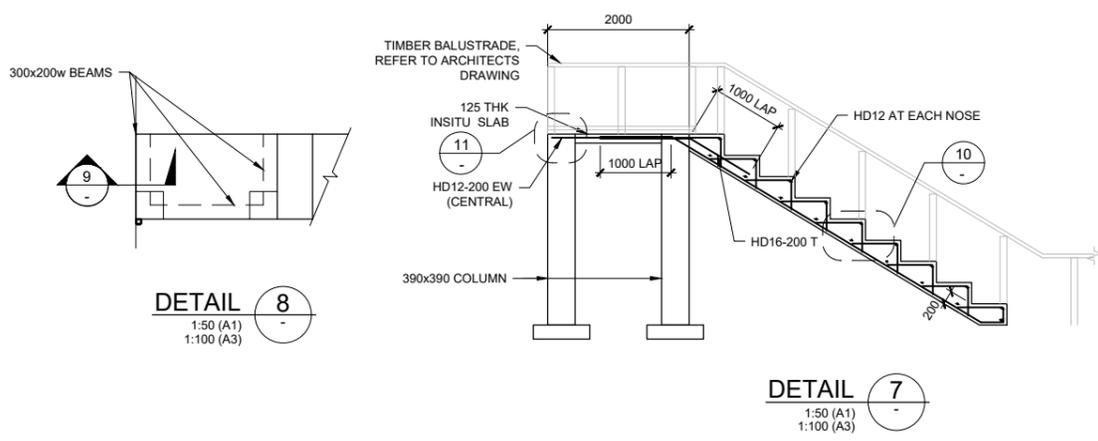
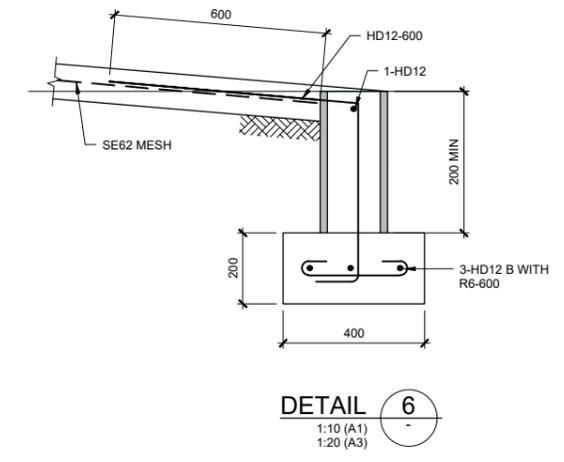
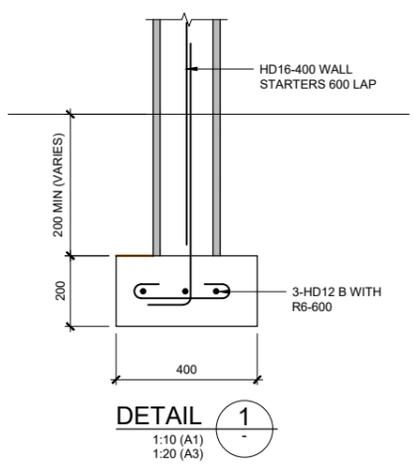
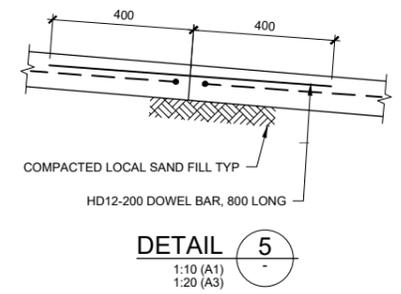
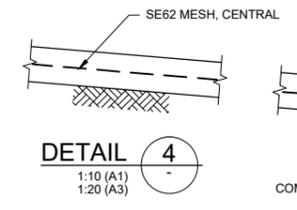
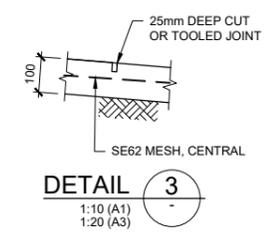
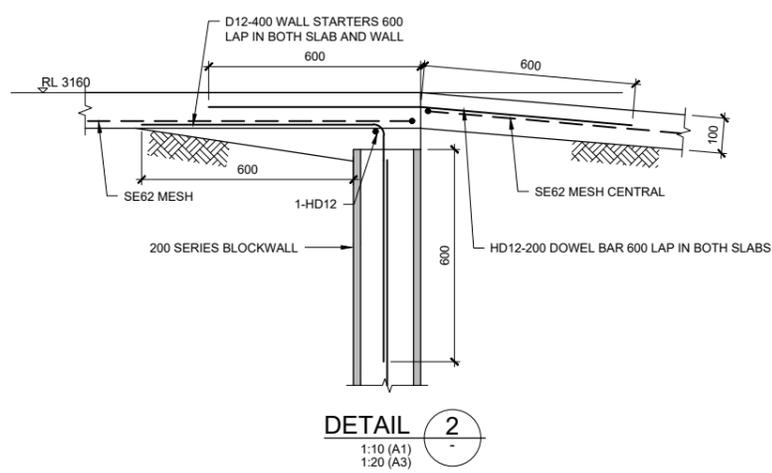
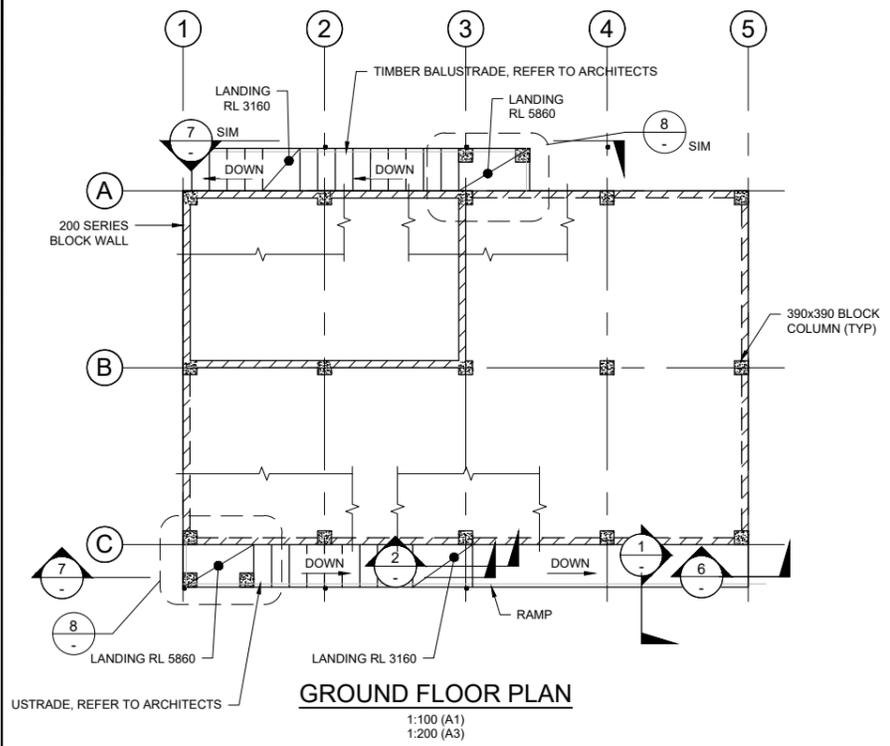
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666 Great South Rd
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Auckland 1051
+64 9 525 9770
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Scale (A1 Original)		
SCALE AS NOTED		
Project No	Sheet	Revision
710471	S008	B

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- NOTES:
- REFER TO GENERAL NOTES ON SN01, SN02 AND SN03
 - ALL STRUCTURAL STEEL TO BE HOT DIPPED GALVANIZED HDG600 TO AS231 FOR EXPOSED CLASS E-M



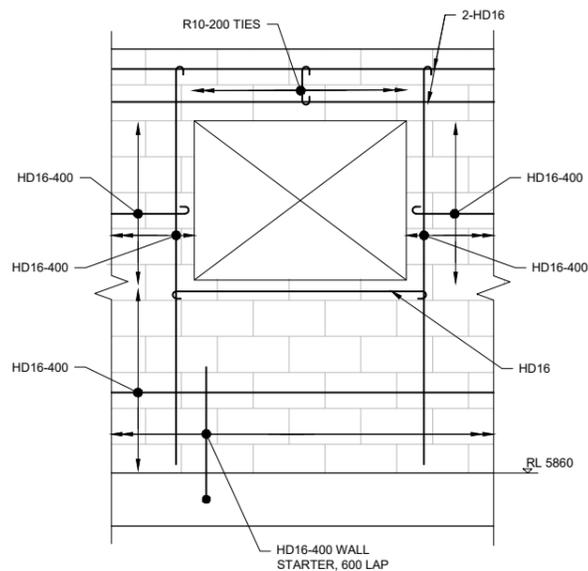
NOTE:
FOR STAIR SETOUT OF GOINGS AND RISES, REFER TO ARCHITECTS DRAWING

NOTE:
USE SAME DETAIL AT BASE/BLOCK WALL

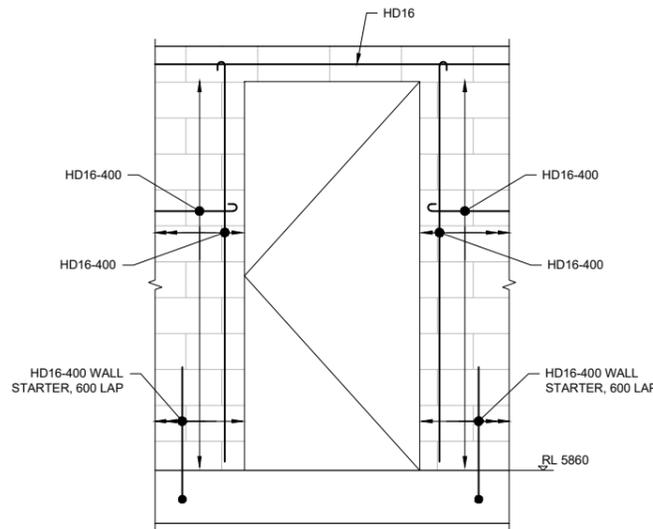
B FOR TENDER A FOR TENDER Revision	SRG 31.10.17 SRG 29.09.17 App Date Approved SRG	TD GH ND SRG	Sep-17 Sep-17 Sep-17 Sep-17	Client GOVERNMENT OF THE COOK ISLANDS INFRASTRUCTURE COOK ISLANDS	Project Title PALMERSTON ISLAND NEW CYCLONE SHELTER	Sheet Title RAMP DETAILS AND STAIR DETAILS	Level 1, Building 8 666 Great South Rd Eilerslie, Auckland 1051 +64 9 525 9770 calibreconsulting.co	Scale (A1 Original) SCALE AS NOTED
	Surveyed Designed Drawn Reviewed	TD GH ND SRG	Sep-17 Sep-17 Sep-17 Sep-17	Project No 710471	Sheet S009	Revision B		

Verify all dimensions on site before commencing work. Prioritise figured dimensions over scaling. Refer all discrepancies to Calibre. This document and the copyright in this document remain the property of Calibre Consulting Limited. The contents of this document may not be reproduced either in whole or in part by any means whatsoever without the prior written consent of Calibre Consulting Limited.

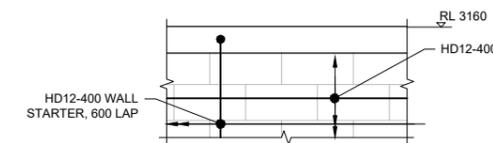
NOTES:
1. REFER TO GENERAL NOTES ON SN01, SN02 AND SN03



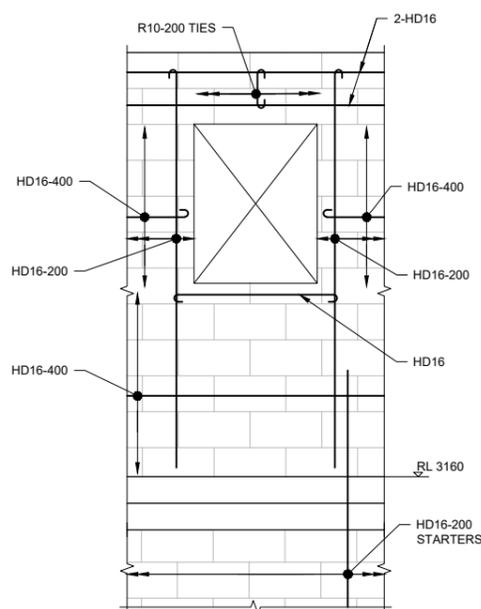
TYPICAL WINDOW OPENING LEVEL 1 (1)
1:20 (A1)
1:40 (A3)



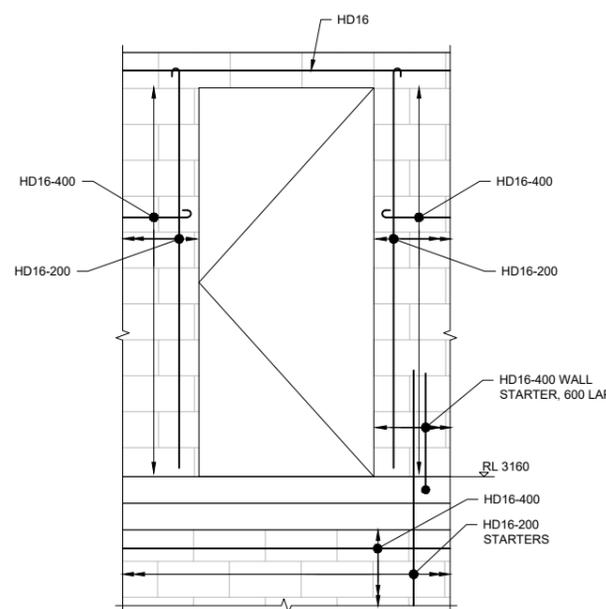
TYPICAL DOOR OPENING LEVEL 1 (2)
1:20 (A1)
1:40 (A3)



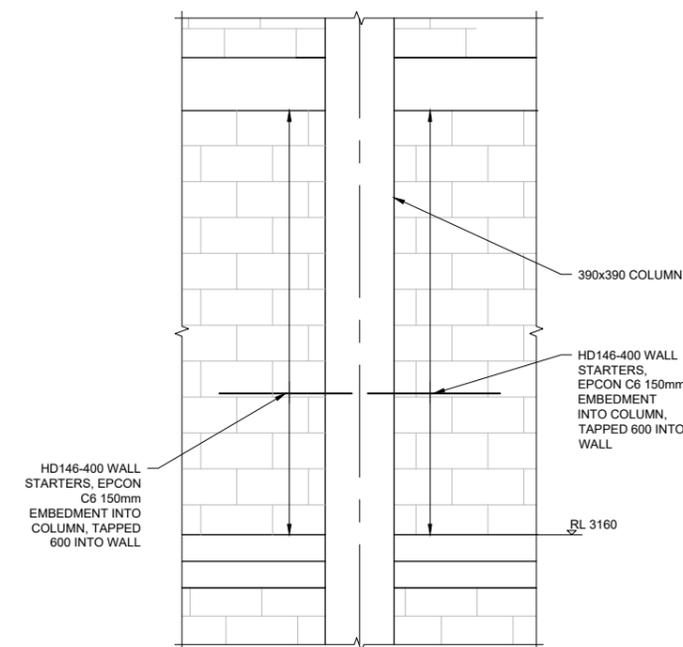
TYPICAL LOWER WALL (5)
1:20 (A1)
1:40 (A3)



TYPICAL WINDOW OPENING GROUND FLOOR (3)
1:20 (A1)
1:40 (A3)



TYPICAL DOOR OPENING GROUND FLOOR (4)
1:20 (A1)
1:40 (A3)



TYPICAL COLUMN TO WALL DETAIL (5)
1:20 (A1)
1:40 (A3)

B FOR TENDER A FOR TENDER Revision	SRG 31.10.17 SRG 29.09.17 App Date Approved SRG	TD GH ND SRG	Sep-17 Sep-17 Sep-17 Sep-17	Client GOVERNMENT OF THE COOK ISLANDS INFRASTRUCTURE COOK ISLANDS	Project Title PALMERSTON ISLAND NEW CYCLONE SHELTER	Sheet Title TYPICAL WALL REINFORCING	Level 1, Building 8 666 Great South Rd Ellerslie, Auckland 1051 +64 9 525 9770 calibreconsulting.co	Scale (A1 Original) SCALE AS NOTED	Project No 710471	Sheet S010	Revision B
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