

PROPOSED CHANGE ROOMS NABAWA OVAL, CHAPMAN VALLEY, NABAWA

DRAWING INDEX

DRAWING No	DRAWING TITLE
S0.01	DRAWING INDEX AND GENERAL NOTES
S1.01	FOOTINGS AND SLABS ON GROUND PLAN AND SECTIONS
S1.02	FOOTINGS AND SLABS ON GROUND SECTIONS
S2.01	WALL AND COLUMN LAYOUT PLAN AND DETAILS
S3.01	ROOF LAYOUT PLAN, SECTION, ELEVATION AND DETAIL
S3.02	ROOF DETAILS

DESIGN CRITERIA -

- DESIGN EVENT CRITERIA IN ACCORDANCE WITH AS/NZS 1170.0:2002
 - IMPORTANCE LEVEL 2
 - DESIGN LIFE: 50 YEARS
- PERMANENT AND IMPOSED ACTIONS IN ACCORDANCE WITH AS/NZS 1170.1:
 - IMPOSED FLOOR ACTION = 2.0 kPa
 - IMPOSED ROOF ACTION = 0.25 kPa
- WIND ACTIONS IN ACCORDANCE WITH AS/NZS 1170.2:2012:
 - ANNUAL PROBABILITY OF EXCEEDANCE:
 - ULTIMATE = 1/500
 - SERVICEABILITY = 1/25
 - WIND REGION 'B2'
 - TERRAIN CATEGORY 2.5: $M_z, cat = 0.87$
 - WIND DIRECTION MULTIPLIER: $M_d = 0.90$
 - CLIMATE CHANGE MULTIPLIER: $M_c = 1.05$
 - SHIELDING MULTIPLIER: $M_s = 1.0$
 - TOPOGRAPHIC MULTIPLIER: $M_t = 1.0$
 - ULTIMATE REGIONAL WIND VELOCITY ($V_{R,u}$) = 57m/s
 - SERVICEABILITY REGIONAL WIND VELOCITY ($V_{R,s}$) = 39m/s
 - INTERNAL PRESSURE COEFFICIENTS: +0.5, -0.3
- DESIGN WIND PRESSURES FOR WINDOWS IN ACCORDANCE WITH AS 2047-2014:
 - SERVICEABILITY: 1000Pa
 - ULTIMATE: 2100Pa
- FOOTINGS AND SLABS ON GROUND TO SITE CLASS 'S' IN ACCORDANCE WITH AS 2870-2011.
- EARTHQUAKE ACTIONS IN ACCORDANCE WITH AS 1170.4-2024:
 - ANNUAL PROBABILITY OF EXCEEDANCE = 1/500
 - PROBABILITY FACTOR (K_p) = 1.0
 - EARTHQUAKE HAZARD FACTOR (Z) = 0.09
 - SITE SUBSOIL CLASS = C_e
 - EARTHQUAKE DESIGN CATEGORY II ($K_pZ = 0.09$)
- DURABILITY CRITERIA FOR ABOVE GROUND EXTERIOR ENVIRONMENTS:
 - REINFORCED CONCRETE EXPOSURE CLASSIFICATION TO AS 3600: B1
 - STRUCTURAL STEEL ATMOSPHERIC CORROSIVITY CATEGORY TO AS/NZS 2312: C3 (MEDIUM)
 - BRICK AND BLOCKWORK EXPOSURE ENVIRONMENT TO AS 3700: MODERATE

GENERAL -

- ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANT'S DRAWINGS AND SPECIFICATIONS.
- ALL DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
- DO NOT SCALE FROM THE DRAWINGS.
- REFER TO ARCHITECTURAL DRAWINGS FOR SETTING OUT DETAILS.
- COMPLY WITH THE LATEST AUSTRALIAN STANDARDS AND AMENDMENTS.
- THE CONTRACTOR SHALL ENSURE THE STABILITY OF THE STRUCTURE AND SAFETY TO PERSONNEL DURING ALL PHASES OF CONSTRUCTION. NO PART OF THE STRUCTURE SHALL BE OVERSTRESSED BY EXCESSIVE CONSTRUCTION LOADINGS.
- PROVIDE SAFETY ATTACHMENTS FOR CONSTRUCTION AND FUTURE MAINTENANCE OF ROOF TO COMPLY WITH WORKSAFE REQUIREMENTS.
- LEVELS SHOWN ON THE STRUCTURAL DRAWINGS ARE INDICATIVE ONLY. REFER TO ARCH'S DRAWINGS FOR FFL/FPL.

SITE PREPARATION -

- REMOVE ALL TOPSOIL (GENERALLY LESS THAN 100mm), ORGANIC MATERIAL, FLORA AND RUBBISH FOR AN AREA EXTENDING 2m BEYOND THE BUILDING ENVELOPE AND DISPOSE OFF SITE.
- CUT AND GRADE THE SURFACE TO ENSURE THE SURFACE DOES NOT HOLD WATER WITH 1:00 FALLS AWAY FROM THE BUILDING. THE CUT SURFACE SHALL ALSO ALLOW FOR A MINIMUM OF 150mm OF COMPACTED SAND FILL UNDER ALL FOOTINGS.
- PROOF ROLL THE CUT SURFACE USING A CA25 DRUM ROLLER OR SIMILAR IN STATIC MODE WITH A MINIMUM OF 3 PASSES IN EACH DIRECTION WITH 25% OVERLAP.
- PLACE AND COMPACT APPROVED SAND FILL IN LAYERS NOT EXCEEDING 300mm TO ACHIEVE THE A MINIMUM OF 70% DENSITY INDEX FOR THE FULL DEPTH OF THE FILL PROVIDED. 8 BLOWS PER 300mm TESTED USING A STANDARD PERTH SAND PENETROMETER FOR A DEPTH OF AT LEAST 750mm WILL BE CONSIDERED TO MEET THIS REQUIREMENT.
- ENSURE UNIFORM COMPACTION ACROSS THE SITE.
- AVOID CARRYING OUT EARTHWORKS IN WET CONDITIONS AND USE TRACK EXCAVATORS WHERE POSSIBLE. CONTACT OUR OFFICE FOR FURTHER ASSISTANCE AND ADVICE DURING SITE PREPARATION. IT MAY BE NECESSARY TO DELAY SITE PREPARATION TO ALLOW EXISTING CLAY SOIL TO DRY OUT SUFFICIENTLY TO ALLOW EARTHWORKS TO CONTINUE.
- ENSURE ALL STORM WATER IS COLLECTED AND DISPOSED OFF SITE.
- REFER TO GEOTECHNICAL INVESTIGATION REPORT BY STRUCTERRE CONSULTING FOR DETAILS OF EXISTING GROUND CONDITIONS AND ADDITIONAL TESTING REQUIREMENTS.
- PROVIDE COMPACTION TEST CERTIFICATES TO SUPERINTENDENT FOR APPROVAL PRIOR TO POURING FOOTINGS OR SLABS.
- IN GENERAL, EARTHWORKS AND SITE PREPARATION SHALL BE IN ACCORDANCE WITH AS3798-2007 - GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.
 - LEVEL 2 INSPECTION AND TESTING IN ACCORDANCE WITH CLAUSE 8.2.
 - FREQUENCY OF TESTING TO COMPLY WITH TYPE 2 - TABLE 8.1

FOOTINGS AND SLABS ON GROUND -

- LOCATE FOOTINGS CENTRALLY UNDER WALLS, COLUMNS AND PIERS UNLESS OTHERWISE NOTED.
- PROVIDE 200µm PVC VAPOUR PROOF MEMBRANE COMPLYING WITH AS 2870 UNDER ALL SLABS ON GROUND. LAP 150mm AT JOINTS AND SEAL WITH AN APPROVED PRESSURE SENSITIVE TAPE. ALSO SEAL WITH TAPE AROUND ALL PENETRATIONS AND BLOCKOUTS.
- STEP FOOTINGS UNDER ANY PLUMBING PIPES OR CONDUITS MAINTAINING THE SPECIFIED DEPTH AT ALL TIMES. SERVICES THAT PASS THROUGH FOOTINGS SHALL BE SUITABLY LAGGED.
- NO EXCAVATION SHALL BE CARRIED OUT CLOSER TO FOOTINGS THAN A LINE EXTENDING DOWN FROM THEIR EDGE AT 45 DEGREES.

GENERAL RETAINING WALL NOTES -

- ALL BRICKWORK SHALL BE IN ACCORDANCE WITH AS 3700 MASONRY STANDARD. BRICKS SHALL HAVE A MINIMUM CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH (f'_{cu}) OF 20 MPa.
- COMPACT THE NATURAL GROUND IN ACCORDANCE WITH THE FOOTING PREPARATION NOTES.
- FOOTING CONCRETE SHALL BE N25, 80 SLUMP TO AS 3600.
- CONSTRUCT EARTHSIDE BRICK LEAF FIRST. PLACE REINFORCEMENT AND COMPLETE OUTER LEAF.
- DO NOT CAVITY FILL UNTIL WALL IS AT LEAST 7 DAYS OLD.
- PROVIDE TEMPORARY PROPPING TO RETAINING WALL WHERE REQUIRED.
- CAVITY FILL SHALL BE
 - $f'_{cc} = 20MPa$
 - AGG = 14mm
 - SLUMP = 100mm
- COMPACT CONCRETE IN CAVITY BY RODDING. PROP BRICKWORK AS REQUIRED.
- PROVIDE VERTICAL CONTROL JOINTS IN RETAINING WALLS AT 10000mm MAXIMUM CENTRES.
- WHERE REQUIRED HAND TAMP OR USE LIGHT RAMMING EQUIPMENT TO COMPACT BACK FILL IN 250mm LAYERS. DO NOT USE HEAVY ROLLING OR COMPACTION EQUIPMENT BEHIND WALL. NO HEAVY MACHINERY TO COME WITHIN HEIGHT 'H' OF WALL FROM REAR FACE. USE ONLY CLEAN SAND BACKFILL BEHIND WALL.

CONCRETE -

- ALL MATERIALS AND EXECUTION SHALL COMPLY WITH AS 3600 & AS 1379.
- BUILD FORMWORK TO AS 3610 FROM THE ARCHITECTURAL DRAWINGS. CHECK FOR BUILT IN FIXINGS, REBATES, TIES, FLASHINGS, ELECTRICAL FITTINGS AND PLUMBING ETC.
- CURE ALL CONCRETE FOR SEVEN DAYS AFTER PLACING BY PONDING OR BY OTHER APPROVED MEANS.
 - FOOTINGS 60mm
 - SLABS ON GROUND (INTERNAL) 30mm
 - (EXTERNAL) 40mm
- COVER TO REINFORCEMENT UNLESS OTHERWISE SHOWN SHALL BE
 - FOOTINGS 60mm
 - SLABS ON GROUND (INTERNAL) 30mm
 - (EXTERNAL) 40mm
- COMPACT CONCRETE USING APPROVED INTERNAL VIBRATORS.
- ALL CONCRETE SHALL BE SUPPLIED BY AN APPROVED PRE-MIX COMPANY AS FOLLOWS -

	GRADE	SLUMP	MAX. AGG.
STRIP FOOTINGS	N25	80mm	20mm
PAD FOOTINGS	N25	80mm	20mm
SLABS ON GROUND	N25	80mm	20mm
(INTERNAL)			
SLABS ON GROUND	N25	80mm	20mm
(EXTERNAL-UNREINFORCED)			
SLABS ON GROUND	N32	80mm	20mm
(EXTERNAL-REINFORCED)			
CAVITY FILLS	N20	100mm	14mm

- NOTIFY THE SUPERINTENDENT AT LEAST 24 HOURS BEFORE PLACING CONCRETE.
- ANY CONCRETE SHOWN ON THE ARCHITECTURAL DRAWINGS AND NOT DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE ALLOWED FOR. THE ENGINEER WILL PROVIDE CONFIRMING STRUCTURAL DETAILS ON REQUEST. IF THE CONCRETE IS ON GROUND ASSUME N25 CONCRETE WITH 40kg/m³ OF REINFORCEMENT.

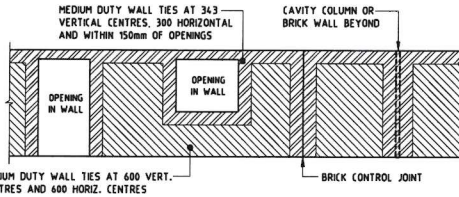
REINFORCEMENT -

- 'N' IS NORMAL DUCTILITY GRADE 500N DEFORMED BARS TO AS/NZS 4671.
- 'R' IS GRADE R250M HOT ROLLED PLAIN BARS TO AS/NZS 4671.
- 'L' IS HARD DRAWN WIRE REINFORCING FABRIC TO AS/NZS 4671.
- 'W' IS HARD DRAWN PLAIN WIRE TO AS/NZS 4671.
- PROVIDE 2-M16 REINFORCING BARS (2000 LONG) AT RE-ENTRANT CORNERS FOR SLABS ON GROUND.
- MINIMUM LAPS REQUIRED, FABRICS = 230mm, (MIN 2 TRANSVERSE BARS), N BARS = 50 DIAMETERS, R & W BARS = 50 DIAMETERS U.N.O.
- CLEAN ALL REINFORCEMENT PRIOR TO PLACING CONCRETE.
- ENSURE ALL REINFORCEMENT IS ADEQUATELY SUPPORTED ON APPROVED FULLY PLASTIC CHAIRS OR CONCRETE BLOCKS. STEEL REINFORCEMENT SHALL BE SUPPORTED ON CHAIRS OR BLOCKS COMPLYING WITH AS/NZS 2425 AT 600 MAX CRS.

MASONRY

- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH AS 3700, AS 2699, AS 4773.1, AS 4773.2 AND THE CURRENT BCA.
- MEDIUM DUTY U.N.O WALL TIES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH AS 3700, AS 4773.1 AND AS 4773.2. REFER TO THE TYPICAL (CAVITY WALL TIE ELEVATION FOR FURTHER INFORMATION.
- MINIMUM MORTAR CLASS AND ALL BUILT IN COMPONENTS (TIES, STRAPS, RODS) SHALL COMPLY WITH THE DURABILITY REQUIREMENTS OF AS 3700 IN ACCORDANCE WITH THE TABLE BELOW AND THE EXPOSURE ENVIRONMENT SPECIFIED IN THE DESIGN CRITERIA.
- MASONRY SHALL HAVE A MINIMUM CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH AS FOLLOWS:
 - NON LOADBEARING (SUPPORTING ROOF ONLY) - $f'_{uc} = 12MPa$
- THE BUILDER SHALL TAKE PARTICULAR CARE TO ENSURE ALL PERPENDS AND BEDJOINTS ARE FULLY MORTARED.
- EXTERNAL LINTELS SHALL BE GALVANISED OR PAINT TREATED IN ACCORDANCE WITH THE STEELWORK NOTES. INTERNAL LINTELS SHALL BE HOT DIP GALVANISED.
- ANY MASONRY SHOWN ON THE ARCHITECTURAL DRAWINGS AND NOT DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE ALLOWED FOR. THE ENGINEER WILL PROVIDE CONFIRMING STRUCTURAL DETAILS ON REQUEST.

EXPOSURE ENVIRONMENT (DESIGN CRITERIA)	MORTAR CLASS (CEM. : LIME : SAND)	BUILT IN ITEMS DURABILITY CLASS
INTERNAL	M3 (1 : 1 : 6)	R1 (GALV TO AS/NZS 2699.2) MIN COVER: 5mm
MODERATE	M3 (1 : 1 : 6)	R2 (GALV TO AS/NZS 2699.2) MIN COVER: 15mm
MARINE	M3 (1 : 1 : 6)	R3 (GALV TO AS/NZS 2699.2) MIN COVER: 15mm
SEVERE MARINE	M4 (2 : 1 : 9)	R4 (ST. STEEL TO AS/NZS 2699.2) MIN COVER: 25mm



TYPICAL CAVITY WALL TIES

NOTE: ALL CAVITY WALL TIES SHALL BE MEDIUM DUTY. REFER MASONRY NOTES FOR DURABILITY CLASS AND ADDITIONAL REQUIREMENTS.

STEELWORK -

- COMPLY WITH AS 4100 AND AS/NZS 1554.1
- SITE CHECK ALL DIMENSIONS.
- PROVIDE ALL CLEATS, BRACKETS, WELDING AND HOLING, EVEN IF NOT SHOWN, NECESSARY FOR THE COMPLETION OF THE BUILDING.
- MINIMUM WELDS SHALL BE 6mm FILLET WELDS.
- FULLY SEAL ALL HOLLOW SECTIONS USING 3mm PLATES AS NECESSARY U.N.O.
- MINIMUM STEELWORK GRADES:
 - ROLLED SECTIONS AND PLATE - GRADE 300 TO AS 3679.1 U.N.O
 - RECTANGULAR HOLLOW SECTIONS - GRADE 350 TO AS 1163 U.N.O
 - SQUARE HOLLOW SECTIONS - GRADE 350 TO AS 1163 U.N.O
 - CIRCULAR HOLLOW SECTIONS - GRADE 250 TO AS/NZS 1163 U.N.O.

- SURFACE TREATMENT TO STEELWORK SHALL BE AS FOLLOWS:
 - ALL STEELWORK INCLUDED WITHIN THE CEILING SPACE OR EXPOSED WITHIN THE BUILDING SHALL BE DURAGAL TREATED OR INORGANIC ZINC SILICATE PAINTED TO MINIMUM OF 75 MICRONS OR GALVANISED LIGHT STEEL SECTIONS.
 - ALL STEELWORK EXPOSED TO WEATHER OR WITHIN WALL CAVITIES SHALL BE HOT DIPPED GALVANISED TO AS/NZS 4680 WITH A MINIMUM COATING MASS OF 390g/m² OR PAINT TREATED TO AS 2312:2014 AS OUTLINED BELOW AS SPECIFIED BY THE ARCHITECT:
PRIMER:
ABRASIVE BLAST CLEAN TO CLASS 2 1/2 OF AS 1627.4 WITH A BLAST PROFILE OF 20 - 50 MICRONS
APPLY TO A MINIMUM DRY FILM THICKNESS OF 75 MICRONS. AN ORGANIC ZINC RICH PRIMER TO AS 3750.9 CONFORMING TO AS 2312 (IPRN C02). AN EXAMPLE OF PAINT COMPLYING WITH THESE REQUIREMENTS IS DULUX ZINCANODE 402. ALTERNATIVELY, A SIMILAR PRODUCT EQUIVALENT IN FUNCTION AND QUALITY MAY BE SUBMITTED FOR APPROVAL TO THE SUPERINTENDENT.

TOP COATS:

- THE FINAL HIGH BUILD TOP COAT (IPRN C15) OF MINIMUM 75 MICRONS SHALL BE APPLIED OVER THE PRIMER. ENSURE EVENNESS OF COLOUR. DULUX WEATHERMAX HBR COMPLIES WITH THESE REQUIREMENTS. ALTERNATIVELY, A SIMILAR PRODUCT EQUIVALENT IN FUNCTION AND QUALITY MAY BE SUBMITTED FOR APPROVAL TO THE SUPERINTENDENT. CONSULT THE ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR COLOUR REQUIREMENTS.
- DURAGAL TREATMENT CANNOT BE SUBSTITUTED FOR HOT DIP GALVANISING.
- ALL BOLTS, NUTS AND WASHERS TO BE HOT DIPPED GALVANISED. WHERE EXPOSED TO WEATHER THEY SHALL ALSO HAVE THE REQUIRED TOP COATS APPLIED AS OUTLINED IN THE SPECIFICATION.
- ALL TEE LINTELS SHALL HAVE A MINIMUM OF 250mm END BEARING ON DOUBLE LEAF BRICKWORK U.N.O., ANGLE LINTELS SHALL HAVE 250mm BEARING ON SINGLE LEAF.
- MINIMUM CONNECTION SHALL BE 10mm PLATE (CLEAT, 2-M16 8.8/S (HD GALV) BOLTS OR 2-M12 8.8/S (HD GALV) BOLTS IF CONNECTING TO OTHER STEELWORK MEMBERS OR 2-M16 (HD GALV) ADHESIVE ANCHORS IF CONNECTING TO CONCRETE OR MASONRY ELEMENTS.
- STEEL COLUMNS BUILT WITHIN MASONRY WALLS TO BE TIED TO MASONRY BY POWERFIXED 25x12 "DOUBLE BENT" STRAPS TO COLUMNS AT 2c OR 4c (343mm) MAXIMUM VERTICAL CENTRES. (REFER MASONRY NOTES FOR DURABILITY CLASS).
- TOUCH UP DAMAGED PROTECTIVE TREATMENT AS PER THE SPECIFICATION.
- PERMANENT DISTORTIONS TO MEMBERS DUE TO HOT DIP GALVANISING SHALL BE REMOVED PRIOR TO ERECTING THEM.
- THE CONTRACTOR SHALL ENSURE THE STABILITY OF THE STEELWORK DURING ERECTION AND UNTIL CONSTRUCTION OF THE STRUCTURE IS COMPLETED.
- GROUT ALL BASE PLATES WITH A DRY 3:1 SAND CEMENT MIX.
- ALL STEELWORK BELOW FFL OR FGL TO BE COATED WITH DULUX "DUREBILD STE" OR EQUIVALENT APPROVED COMPLYING WITH AS2312, HAVING A MINIMUM DRY FILM THICKNESS OF 400 MICRONS.
- SEAL ALL VENT HOLES IN HOT DIP GALVANIZED TUBULAR MEMBERS WITH A POLYURETHANE SEALANT PRIOR TO ERECTING THEM.
- ALL INTERMITTENT WELDS TO BUILT UP MEMBERS SHALL BE SEALED WITH PAINTABLE POLYURETHANE SEALANT PRIOR TO ERECTING THEM.
- ANY STEELWORK SHOWN ON THE ARCHITECTURAL DRAWINGS AND NOT DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE ALLOWED FOR. THE ENGINEER WILL CONFIRM STRUCTURAL DETAILS ON REQUEST.

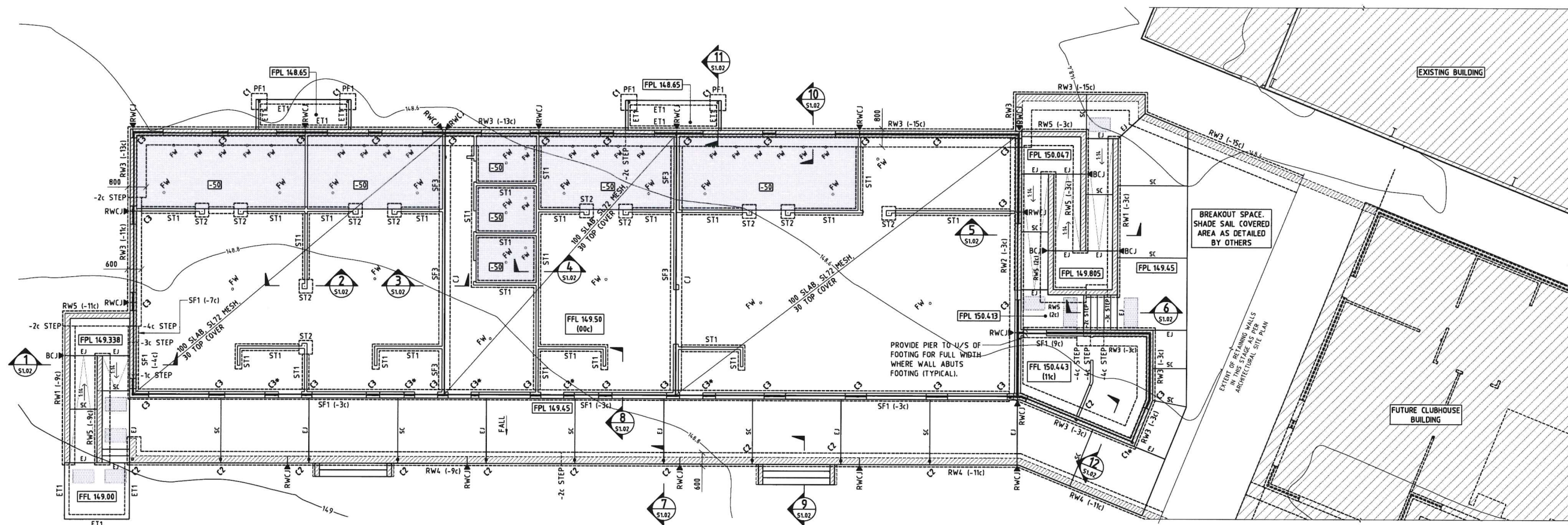
TIMBER TREATMENT -

- TIMBER ABOVE GROUND, PROTECTED FROM WEATHER (INTERNAL ROOFING, FLOORS AND WALL FRAMING) TO BE H3 TREATED.
- TIMBER ABOVE GROUND, EXPOSED TO WEATHER (EXTERNAL ROOFING, DECKING) TO BE H3 TREATED.
- TIMBER IN CONTACT WITH GROUND TO BE H5 TREATED.

9/6/26

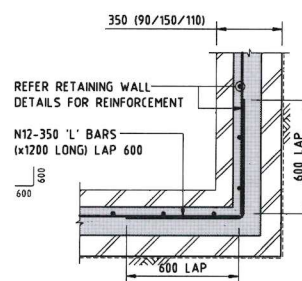
REV NO.	DATE	DESCRIPTION	BY	APPR.
BP	09.06.26	ISSUED FOR CDC & BUILDING PERMIT	J.V.	P.T.
1	16.12.25	ISSUED FOR FINAL COORDINATION	C.P.	P.T.

171 (08) 9380 7228 1 (08) 9380 7221 Unit 10/18 Stirling HAY Meadows Perth, WA 6009		
CLIENT:	SHIRE OF CHAPMAN VALLEY	
PROJECT:	PROPOSED CHANGE ROOMS NABAWA OVAL, CHAPMAN VALLEY, NABAWA	
TITLE:	DRAWING INDEX AND GENERAL NOTES	
DESIGNED: P.T.	DATE: OCT 2025	PROJECT No: 15950
DRAWN: J.V.	SCALE: N.T.S.	DRAWING No: S0.01
CHECKED: P.T.	CAD REF: J.V. 25052812.dwg	REVISION No: BP
APPROVED:	THIS DRAWING SHALL BE CONSIDERED FOR REFERENCE PURPOSES ONLY AND NOT FOR CONSTRUCTION UNLESS APPROVED.	

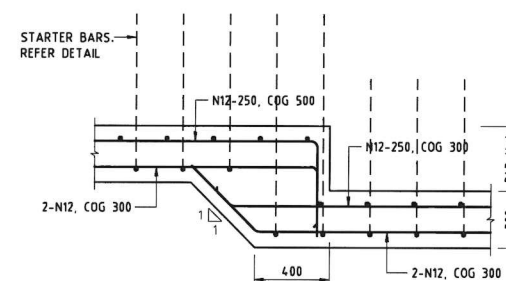


FOOTINGS AND SLABS ON GROUND PLAN 1:100

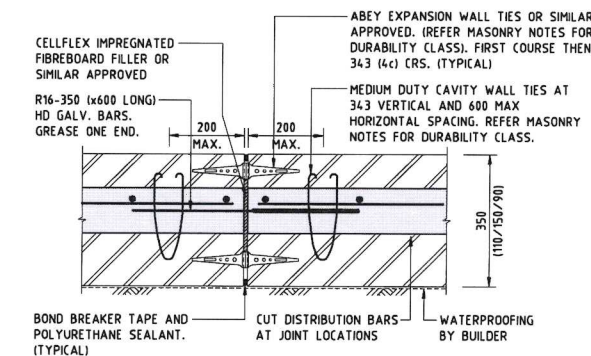
- ALL SLABS ON GROUND TO BE N25 100mm THICK, SL72 MESH, 30 TOP COVER U.N.O. PLACED ON AN APPROVED VAPOUR-PROOF MEMBRANE LAID ON COMPACTED SAND.
- ALL EXTERNAL SLABS ON GROUND TO BE N32 100mm THICK, SL72 MESH, 40 TOP COVER U.N.O. PLACED ON AN APPROVED VAPOUR-PROOF MEMBRANE LAID ON COMPACTED SAND.
- RE - DENOTES 2-N16 RE-ENTRANT BARS, 2000 LONG, PLACED CENTRAL IN SLAB, WHERE SHOWN ON PLAN.
- SC - DENOTES SAW-CUT JOINT. REFER TO S1.02 FOR DETAIL.
- EJ - DENOTES EXPANSION JOINT. REFER TO S1.02 FOR DETAIL.
- RWCJ - DENOTES RETAINING WALL CONSTRUCTION JOINT.
- DENOTES 50mm MIN. WET-AREA SETDOWN SHOWN SHADED U.N.O. ON ARCH'S DWGS. MAINTAIN 100mm SLAB THICKNESS (TYPICAL).
- DENOTES TACTILE GROUND SURFACE INDICATORS TO ARCH'S DETAILS AND AS/NZS 1428.4.1.
- DENOTES FALLS IN SLABS TO FLOOR WASTES AS SHOWN ON THE HYDRAULIC CONSULTANT'S DRAWINGS.



RETAINING WALL CORNER PLAN 1:20



RETAINING WALL FOOTING STEP 1:20



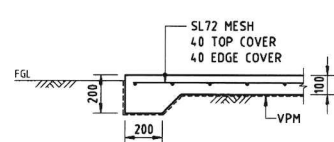
TYPICAL RETAINING WALL CONTROL JOINT (RWCJ) 1:10
LOCATE CONTROL JOINTS AT 12m MAX CRS.

MARK	SIZE (L x B x D)	REINFORCEMENT
ET1	200 x 200 DEEP	SLAB EDGE THICKENING
SF1	450 x 250 DEEP	4-L11TH, 60 COVER
SF2	450 x 300 DEEP	4-L11TH, 60 COVER
SF3	500 x 250 DEEP	4-L11TH, 60 COVER
PF1	700 x 700 x 300 DEEP	MASS CONCRETE
ST1	300 x 250 DEEP	3-L11TH, 60 COVER
ST2	600 x 600 x 300 DEEP	SL72 MESH, 60 COVER
RW1	550 x 300 DEEP	5-L11TH, 60 COVER
RW2	600 x 300 DEEP	5-L11TH, 60 COVER
RW3	800 x 300 DEEP	REFER SECTION 10 FOR DETAIL
RW4	600 x 300 DEEP	REFER SECTION 7 FOR DETAIL
RW5	670 x 300 DEEP	5-L11TH, 60 COVER

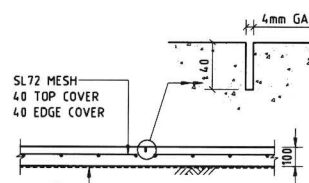
ITEM	MEMBER
C1	75 SHS 4.0
C1a	75 SHS 4.0 TO UNDERSIDE OF LINTEL L1
C2	89 SHS 3.5
C3	100 x 50 RHS 4.0
C3a	100 x 50 RHS 4.0 TO UNDERSIDE OF LINTEL L1



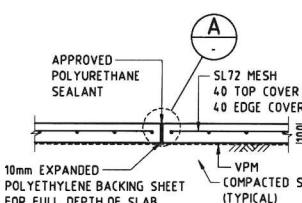
TYPICAL MESH LAP DETAIL 1:10



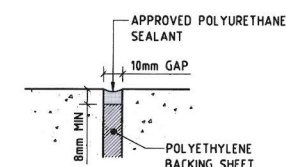
TYPICAL EDGE THICKENING (ET1) 1:20
REINFORCED SLAB



SAW-CUT JOINT DETAIL (SC) 1:20
REINFORCED SLAB



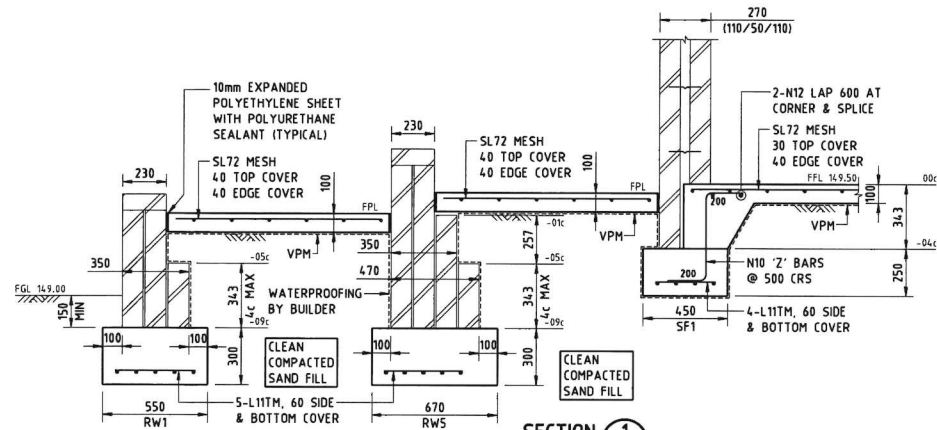
EXPANSION JOINT DETAIL (EJ) 1:20
REINFORCED SLAB



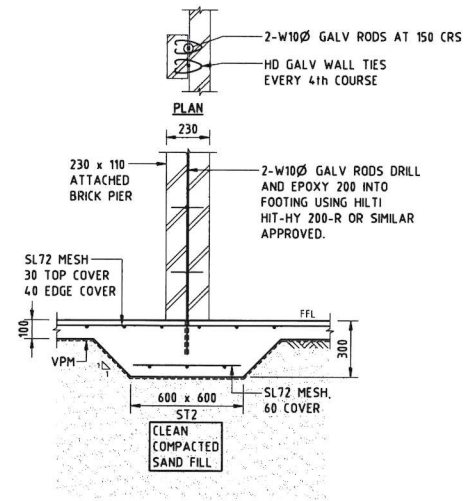
DETAIL A 1:2

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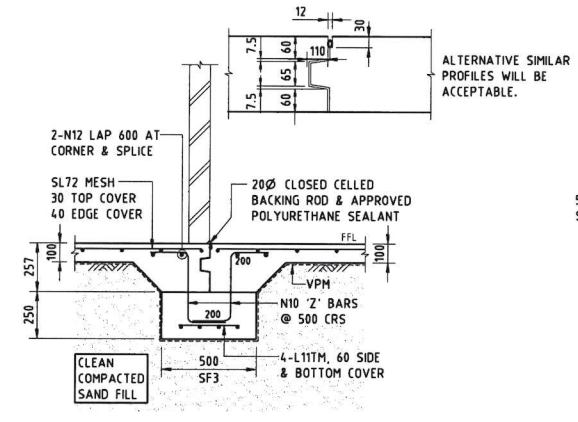
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1	29.10.25	PRELIMINARY ISSUE	C.P.	P.T.
REV NO.	DATE	DESCRIPTION	BY	APPR.
SHIRE OF CHAPMAN VALLEY PROPOSED CHANGE ROOMS NABAWA OVAL, CHAPMAN VALLEY, NABAWA				
FOOTING AND SLABS ON GROUND PLAN AND SECTIONS				
DESIGNED:	P.T.	DATE:	OCT 2025	PROJECT NO:
DRAWN:	C.P.	SCALE:	1:100	DRAWING NO:
CHECKED:	P.T.	CAD RET:	J.V. 09/05/2024	REVISION NO:
APPROVED:				BP



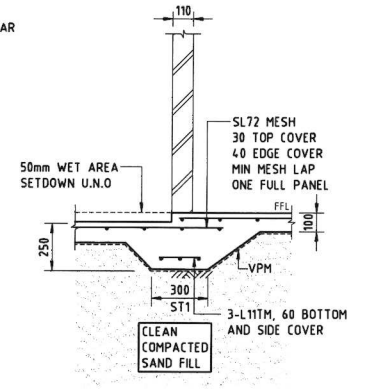
SECTION 1
1:20



SECTION 2
1:20

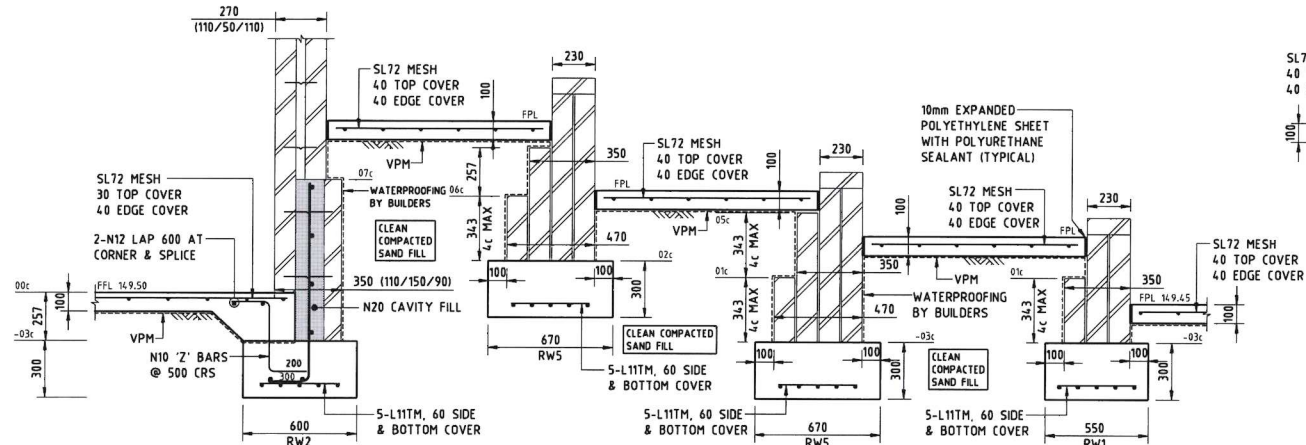


SECTION 3
1:20

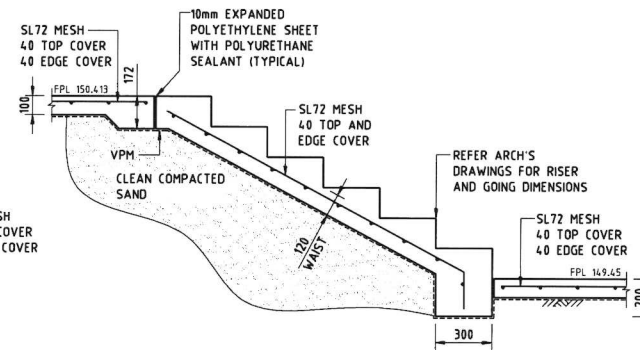


SECTION 4
1:20

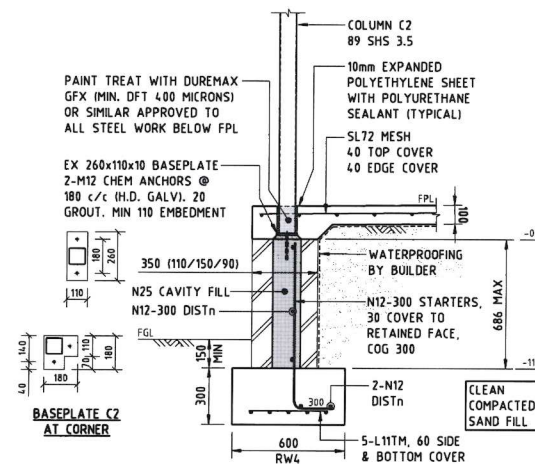
TYPICAL CONSTRUCTION JOINT DETAIL (CJ)



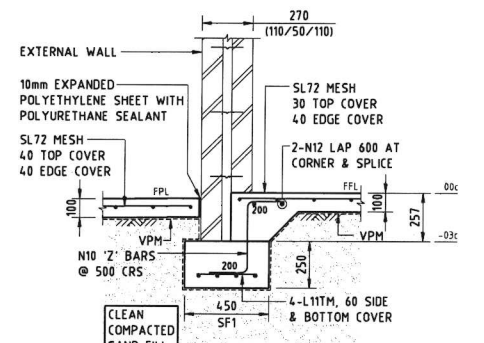
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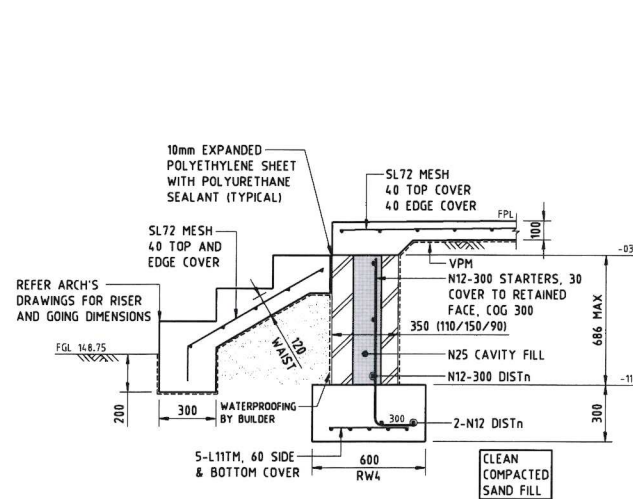
SECTION 6
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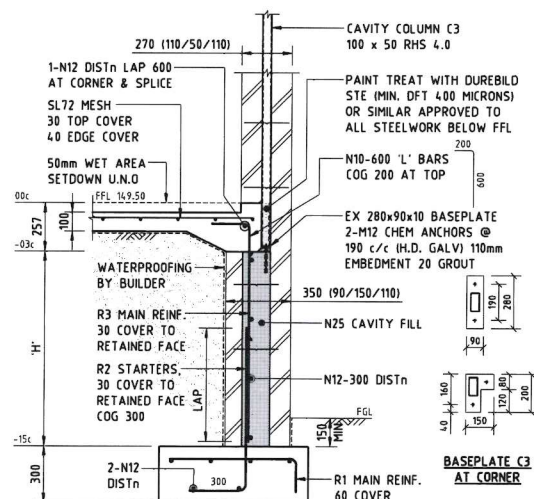
SECTION 7
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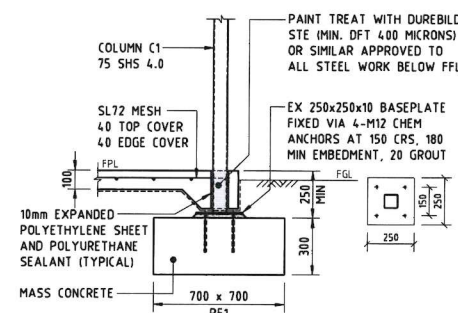
SECTION 8
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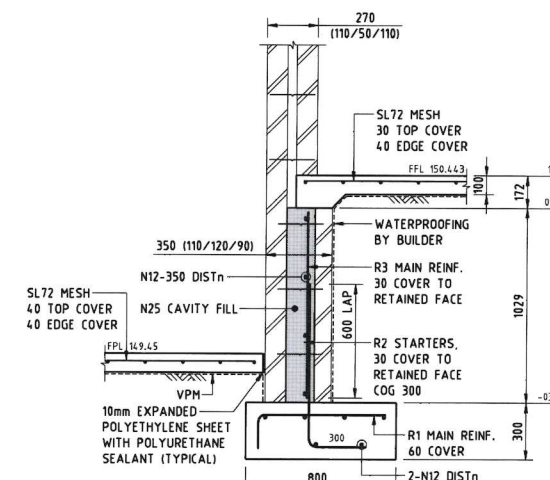
SECTION 9
1:20



SECTION 10
1:20



SECTION 11
1:20



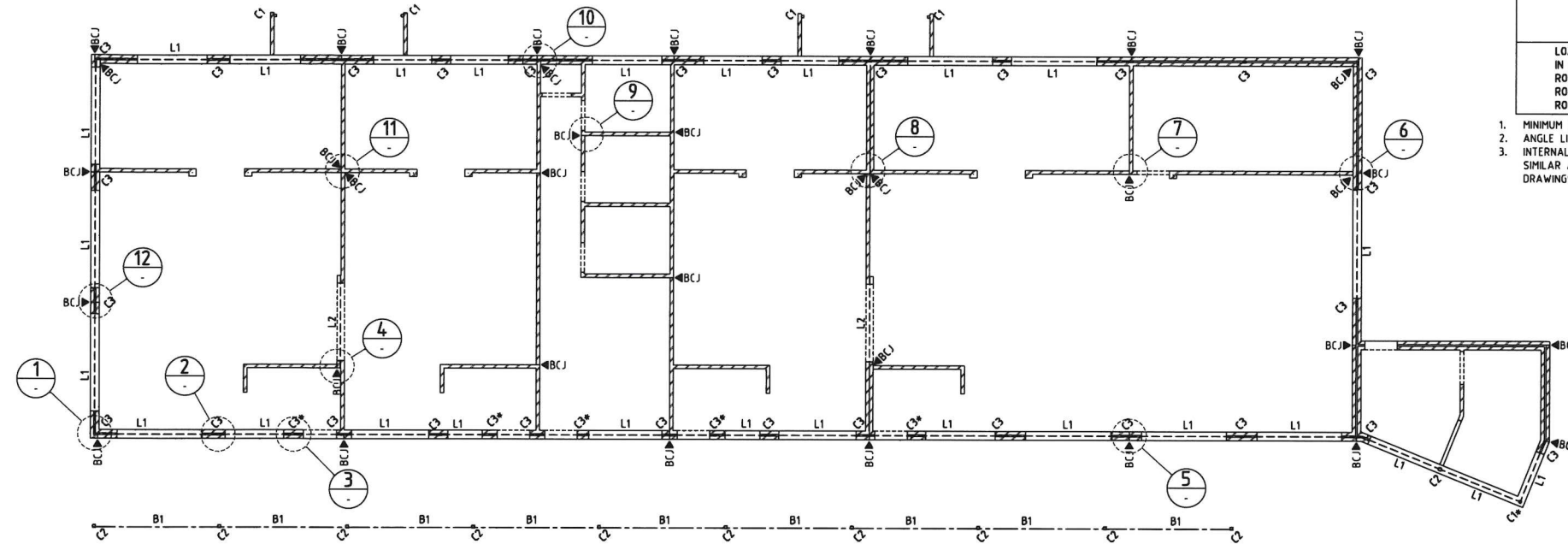
SECTION 12
1:20

RETAINING WALL 'RW3'				
'H'	'B'	R1	R2	R3
0 - 900	600	---	N12-350	---
901 - 1400	800	N12-350	N12-350	600

RETAINING WALL 'RW2'				
'H'	'B'	R1	R2	R3
0 - 900	600	---	N12-350	---
901 - 1400	800	N12-350	N12-350	600

9/6/26

BP	09.06.26	ISSUED FOR CDC & BUILDING PERMIT			J.V. P.T.
2	16.12.25	ISSUED FOR FINAL COORDINATION			C.P. P.T.
1	29.10.25	PRELIMINARY ISSUE			C.P. P.T.
REV No.	DATE	DESCRIPTION			BY APPR.
 terpkos ENGINEERING					
ph: (08) 9389 7229 f: (08) 9389 7221		Unit 10/18 Stirling HWY Nedlands Perth, WA 6009			
CLIENT:	SHIRE OF CHAPMAN VALLEY				
PROJECT:	PROPOSED CHANGE ROOMS NABAWA OVAL, CHAPMAN VALLEY, NABAWA				
TITLE:	FOOTING AND SLABS ON GROUND SECTIONS				
DESIGNED:	P.T.	DATE:	OCT 2025	PROJECT NO:	15950
DRAWN:	C.P.	SCALE:	1:20	DRAWING NO:	S1.02
CHECKED:	P.T.	CAD REF:	J.V. 15950101.dwg 07-10-25 15:07	REVISION NO:	BP
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WALL AND COLUMN LAYOUT PLAN 1:100

- - DENOTES BRICK WALL
- PROVIDE ANGLE LINTELS TO ALL OPENINGS AS PER LINTEL SPAN TABLE ON THIS SHEET UNLESS SHOWN OTHERWISE.
- - DENOTES BRICK CONTROL JOINT. REFER THIS SHEET FOR TYPICAL DETAILS.

LINTEL SCHEDULE -

MAXIMUM SPAN (mm)	LINTEL DIMENSIONS (mm)
700 OR LESS	75 x 8 FMS
1910	90 x 90 x 6 EA
2210	100 x 100 x 6 EA
2770	150 x 90 x 8 EA

LOAD TYPE C (SHEET ROOF) OR E (MASONRY ONLY)
IN ACCORDANCE WITH SECTION 12 AS 4773.1
ROOF LOAD WIDTH 6.6m
ROOF DESIGN DEAD LOAD: 0.4 kPa
ROOF UPLIFT DESIGN AS PER DESIGN CRITERIA ON S0.01

1. MINIMUM BEARING FOR ANGLE LINTELS SHALL BE 250mm EACH END.
2. ANGLE LINTELS SHALL BE TREATED AS SPECIFIED
3. INTERNAL SINGLE LEAF WALLS TO HAVE FAST WALL LINTELS (OR SIMILAR APPROVED) WHERE NOMINATED BY THE ARCHITECTURAL DRAWINGS. MAX SPAN 2400.

LINTEL SCHEDULE

ITEM	MEMBER
L1	200 x 8 PLATE
L2	250 x 8 PLATE
L3	200 x 8 PLATE
L4	200 x 8 PLATE

• WELDING TO LINTELS - 6/50 (100)
6/ WELD END 200

• ALL LINTELS SHALL BE TREATED IN ACCORDANCE WITH THE EXPOSED STEELWORK NOTES.

• PROVIDE 250mm MIN. BEARING TO LINTELS OR 2-M16 B.B./S BOLTS TO EX TO PLATE 1" CLEAT.

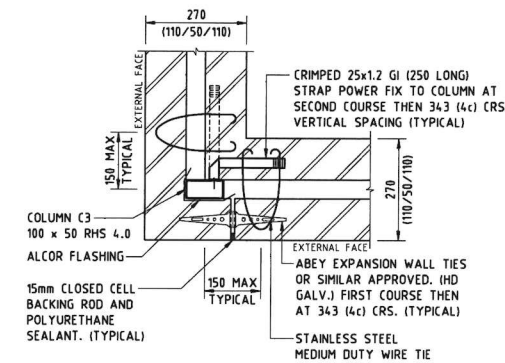
• BRICKWORK OVER LINTELS SHALL BE REINFORCED WITH 400 WIRES (REFER MASONRY NOTES FOR REQUIRED DURABILITY CLASS), CONTINUOUS AND EXTEND 500mm PAST OPENINGS AND CCG 300 AROUND CORNERS.

SHEET ROOF CONSTRUCTION

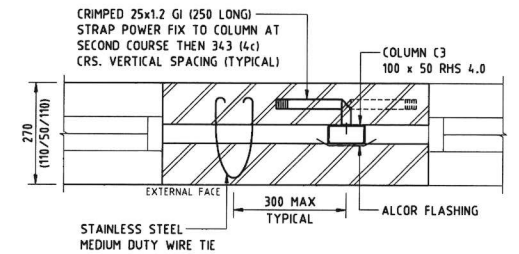
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MEMBER SCHEDULE

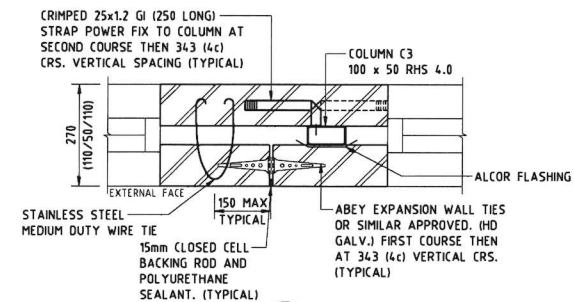
ITEM	MEMBER
C1	75 SHS 4.0
C2	75 SHS 4.0 TO UNDERSIDE OF LINTEL L1
C3	89 SHS 3.5
C4	100 x 50 RHS 4.0
C5	100 x 50 RHS 4.0 TO UNDERSIDE OF LINTEL L1
B1	125 x 75 RHS 4.0



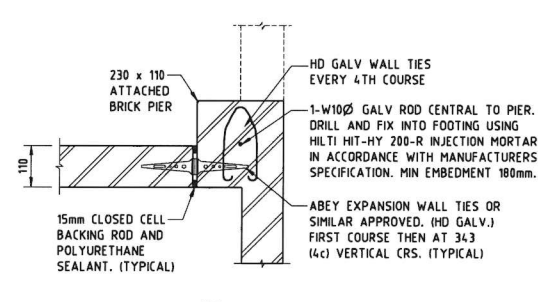
DETAIL 1
1:10



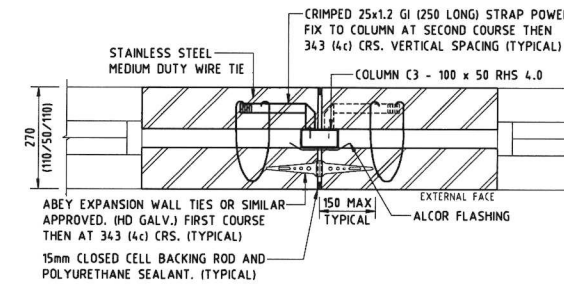
DETAIL 2
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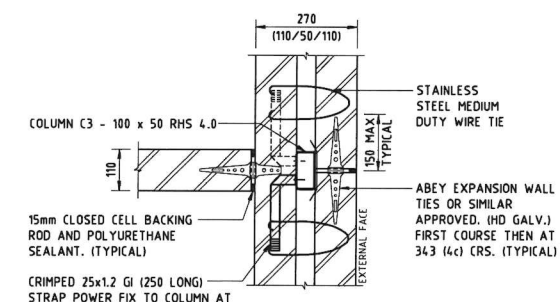
DETAIL 3
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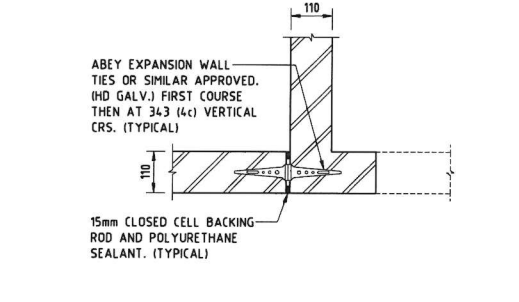
DETAIL 4
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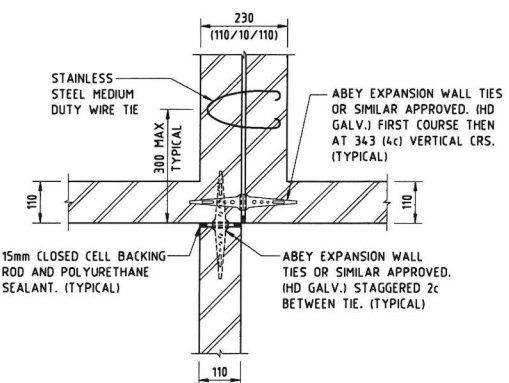
DETAIL 5
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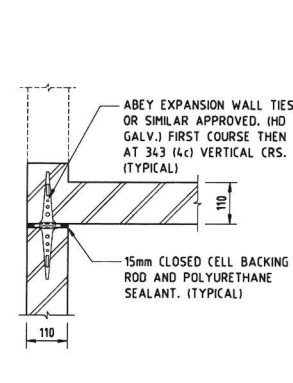
DETAIL 6
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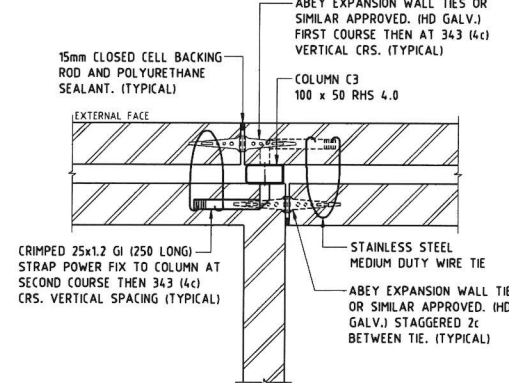
DETAIL 7
1:10



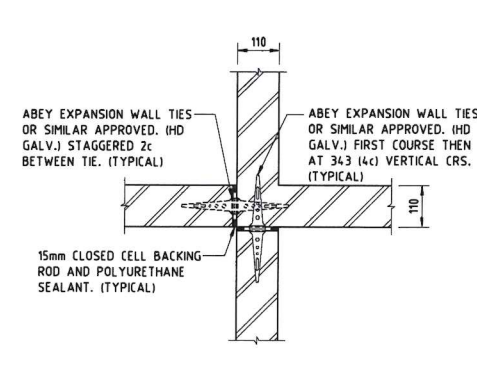
DETAIL 8
1:10



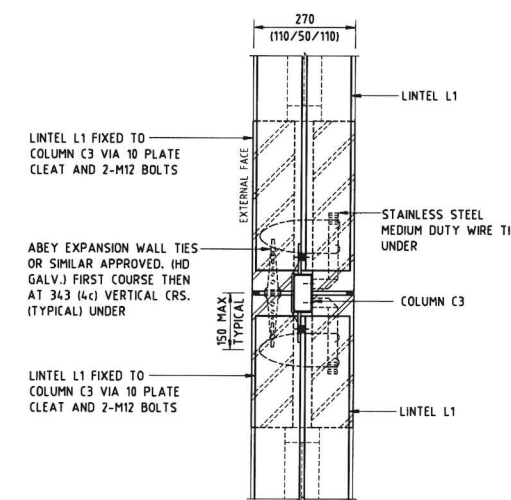
DETAIL 9
1:10



DETAIL 10
1:10



DETAIL 11
1:10



DETAIL 12
1:10

Handwritten signature and date: 9/6/26

REV	DATE	DESCRIPTION	BY	APPR.
BP	09.06.26	ISSUED FOR CDC & BUILDING PERMIT	J.V.	P.T.
2	16.12.25	ISSUED FOR FINAL COORDINATION	C.P.	P.T.
1	29.10.25	PRELIMINARY ISSUE	J.M.	P.T.

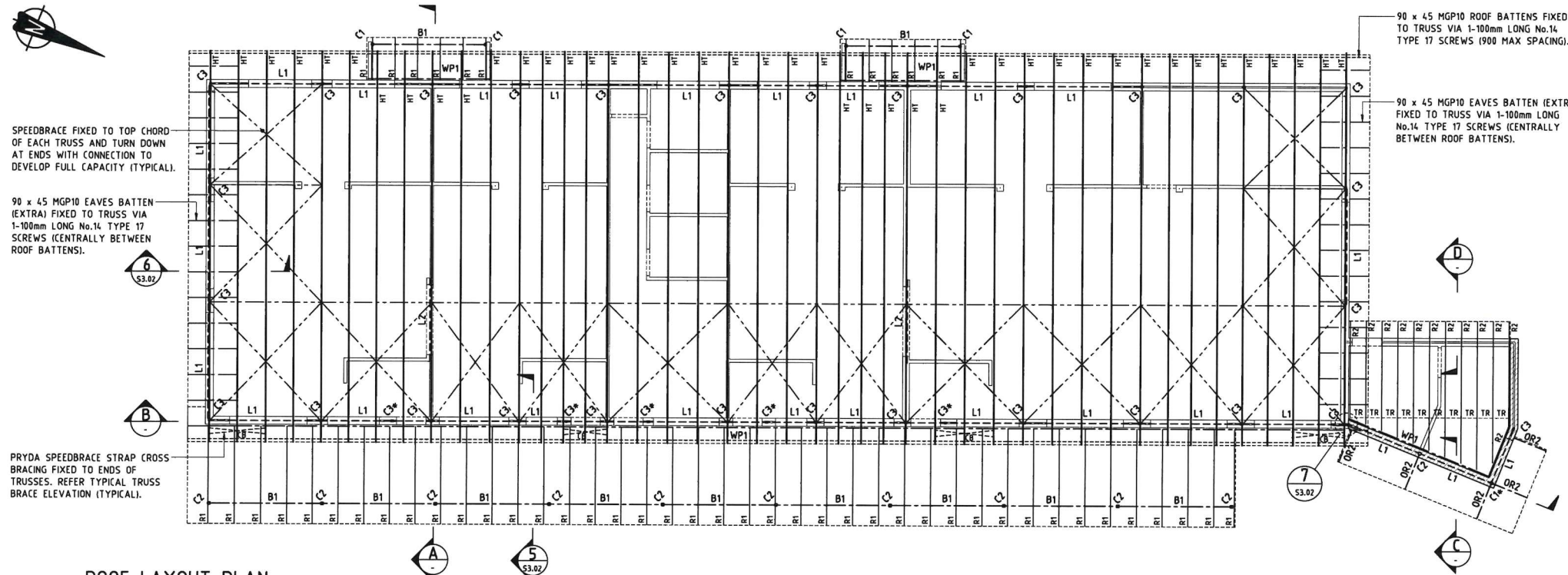
terpkos
ENGINEERING

SHIRE OF CHAPMAN VALLEY

PROPOSED CHANGE ROOMS
NABAWA OVAL,
CHAPMAN VALLEY, NABAWA

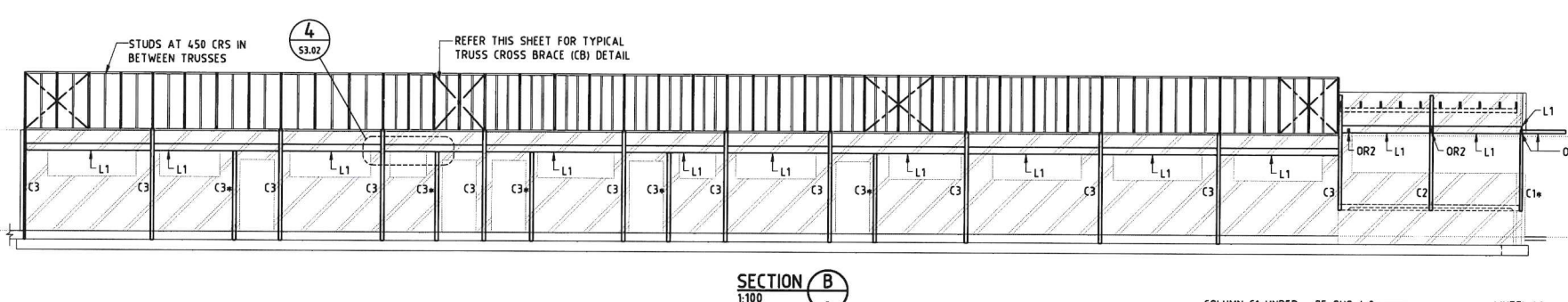
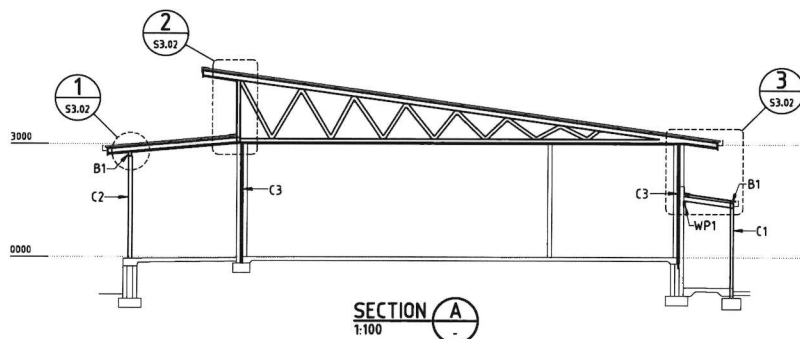
WALL AND COLUMN LAYOUT
PLAN AND DETAILS

DESIGNED: P.T. DATE: OCT 2025 PROJECT No: 15950
DRAWN: C.P. SCALE: 1:100 DRAWING No: S2.01
CHECKED: P.T. CAD REF: J.V. 5958521.dwg
APPROVED: THIS DRAWING SHALL BE CONSIDERED FOR REFERENCE PURPOSES ONLY AND NOT FOR CONSTRUCTION UNLESS APPROVED.



ROOF LAYOUT PLAN

- PROVIDE APPROVED LIGHT GAUGE ANGLE TRIMMERS TO HIPS AND VALLEYS AND OTHER ROOF AREAS AS NECESSARY TO SUPPORT ROOF SHEETING.
- PROVIDE TOP AND BOTTOM CHORD BRACING IN ACCORDANCE WITH THE TRUSS MANUFACTURER'S DESIGN REQUIREMENTS IN ADDITION TO THE BRACING SHOWN.
- DENOTES PARAPET WALL
- DENOTES CROSS BRACING

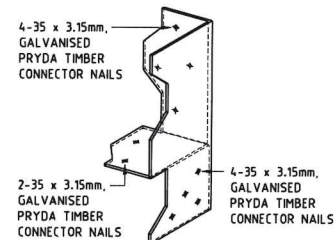


LINTEL SCHEDULE	
ITEM	MEMBER
L1	200 x 8 PLATE
L2	250 x 8 PLATE
	200 x 8 PLATE
	200 x 8 PLATE
WELDING TO LINTELS - 6/150 (100) 6/1 WELD END 200	
ALL LINTELS SHALL BE TREATED IN ACCORDANCE WITH THE EXPOSED STEELWORK NOTES.	
PROVIDE 250mm MIN. BEARING TO LINTELS OR 2-M16 8.8/S BOLTS TO EX 10 PLATE 'T' CLEAT.	
BRICKWORK OVER LINTELS SHALL BE REINFORCED WITH 600 WIRES (REFER MASONRY NOTES FOR REQUIRED DURABILITY CLASS), CONTINUOUS AND EXTEND 500mm PAST OPENINGS AND COG 300 AROUND CORNERS.	
SHEET ROOF CONSTRUCTION	

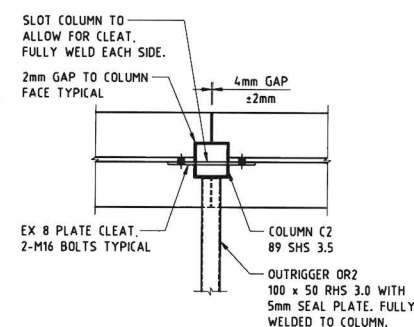
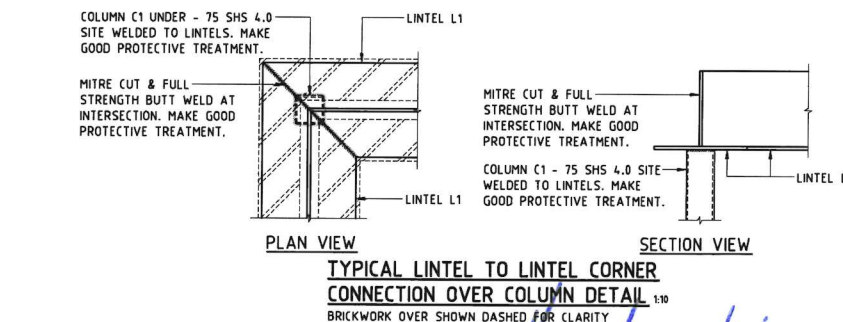
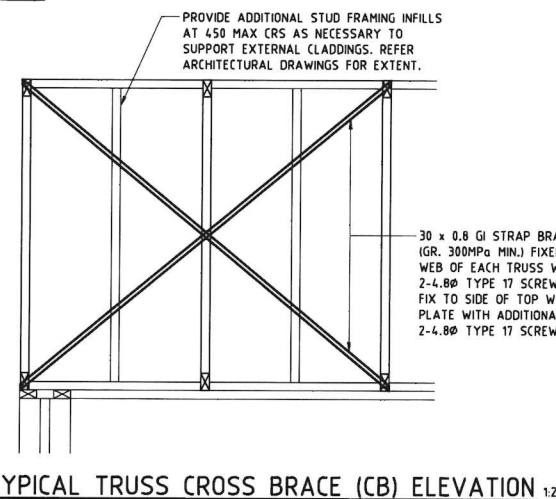
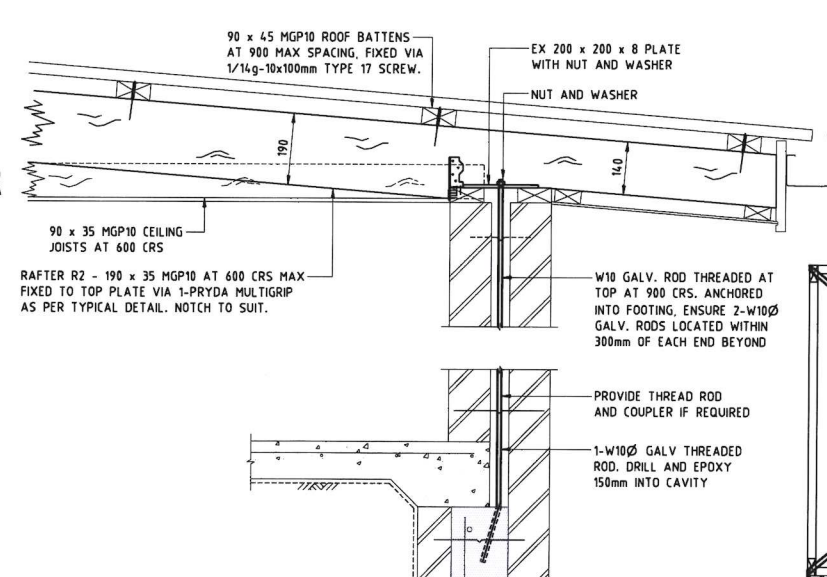
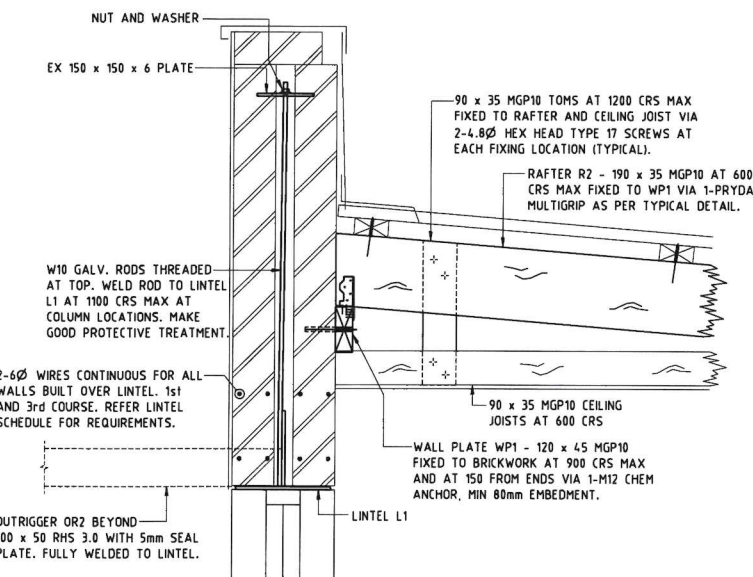
- TRUSS DESIGN AND ERECTION -
- TRUSSES SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS PROVIDED BY THE TRUSS MANUFACTURER'S DESIGN ENGINEERS AND THE SPECIFIED REQUIREMENTS. TRUSS INSTALLATION SHALL COMPLY WITH AS 4440.
 - ALTERNATIVE TRUSS LAYOUTS MAY BE USED PROVIDED THAT A CERTIFIED PRACTISING STRUCTURAL ENGINEER CONFIRMS THAT THE ALTERNATIVE LAYOUT DOES NOT ALTER THE OVERALL STRUCTURAL ADEQUACY OF THE BUILDING.
 - REFER TO SPECIFICATION FOR ADDITIONAL TRUSS DESIGN AND FABRICATION REQUIREMENTS.
 - PROVIDE TOP AND BOTTOM CHORD TIES TO TRUSS MANUFACTURER'S REQUIREMENTS IN ADDITION TO THE BRACING SHOWN ON PLAN.
 - TRUSS DESIGNER TO ENSURE MECHANICAL CASSETTES AND IN-ROOF SERVICES ARE COORDINATED WITH TRUSS SETOUT.
 - ALL TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH DESIGN CRITERIA OUTLINED ON DRAWING S0.01.
 - LIAISE WITH THE DESIGN ENGINEER AS NECESSARY TO AVOID CLASHES.
 - KEY TO TRUSS LAYOUT PLAN:
 - HT - HALF TRUSS AT 1050 MAX CRS

MEMBER SCHEDULE	
ITEM	MEMBER
C1	75 SHS 4.0
C2	75 SHS 4.0 TO UNDERSIDE OF LINTEL L1
C3	89 SHS 3.5
C3*	100 x 50 RHS 4.0
C3**	100 x 50 RHS 4.0 TO UNDERSIDE OF LINTEL
B1	125 x 75 RHS 4.0
WP1	120 x 45 MGP10 WALL PLATE
OR1	90 x 45 MGP10 OUTRIGGER
OR2	100 x 50 RHS 3.0 OUTRIGGER
R1	120 x 45 MGP10 RAFTERS AT 900 CRS
R2	190 x 35 MGP10 RAFTERS AT 600 CRS
TR	190 x 35 MGP10 BLOCKING
SHEET ROOF CONSTRUCTION	

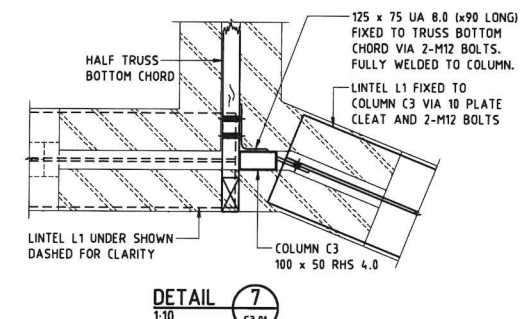
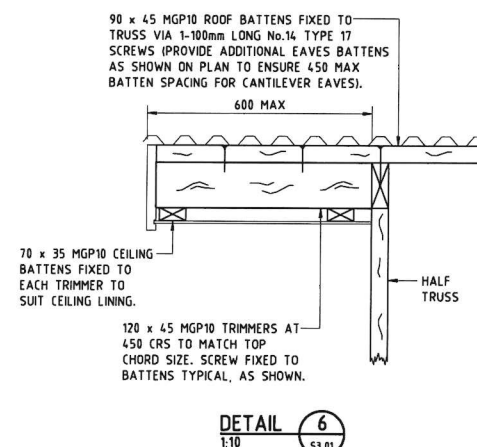
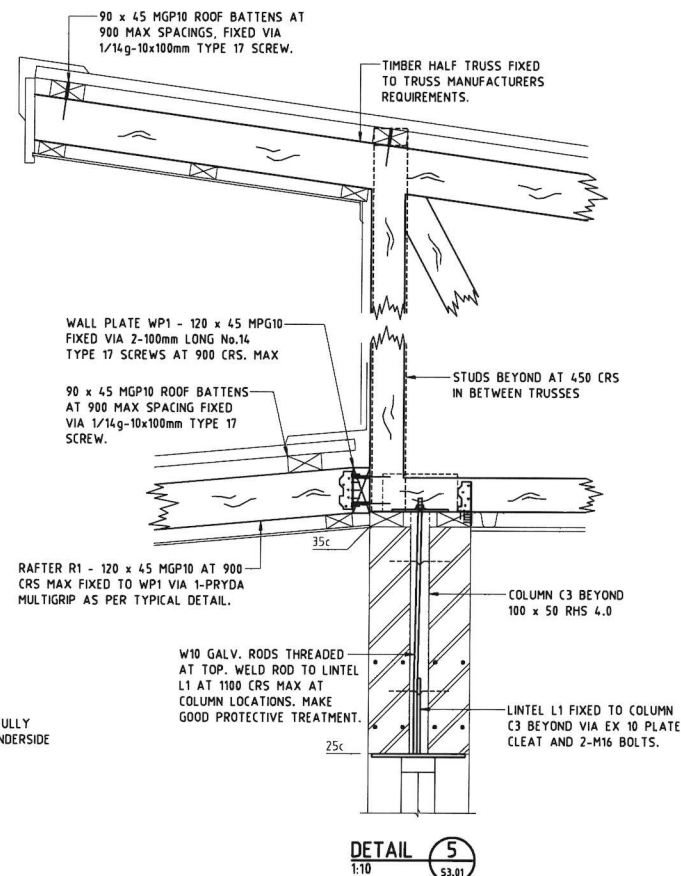
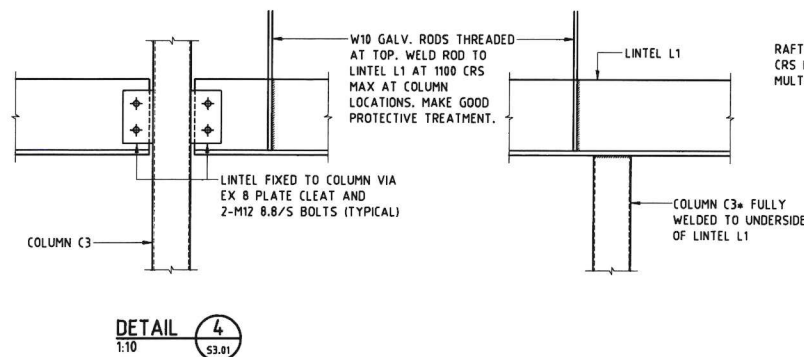
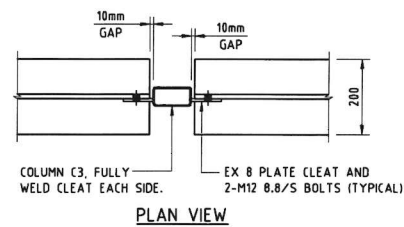
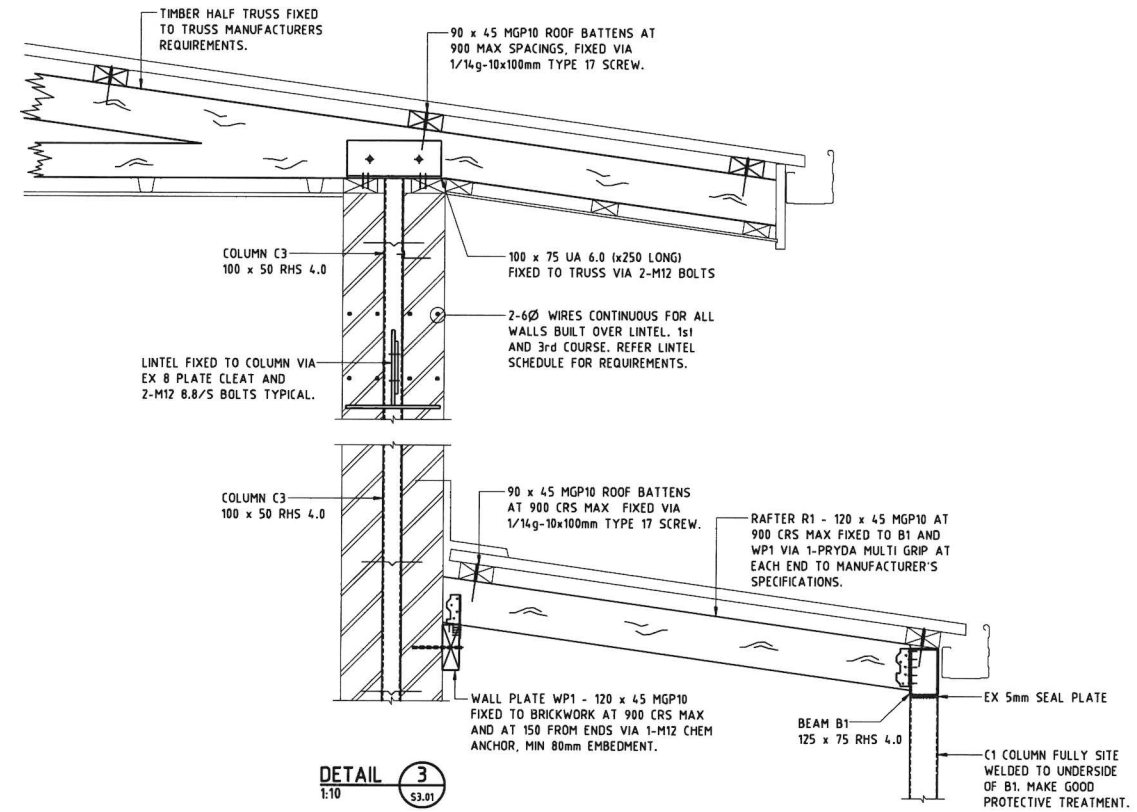
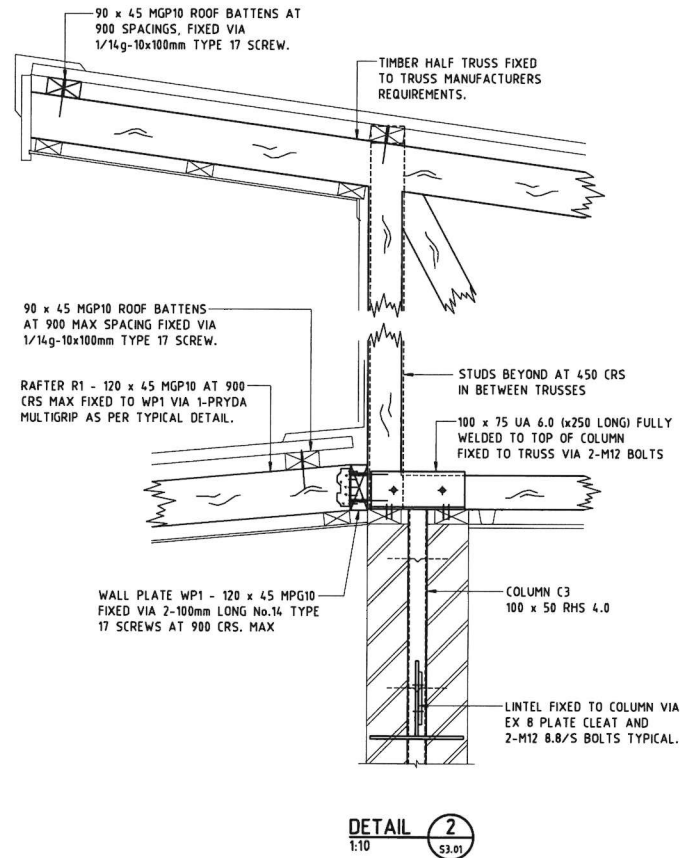
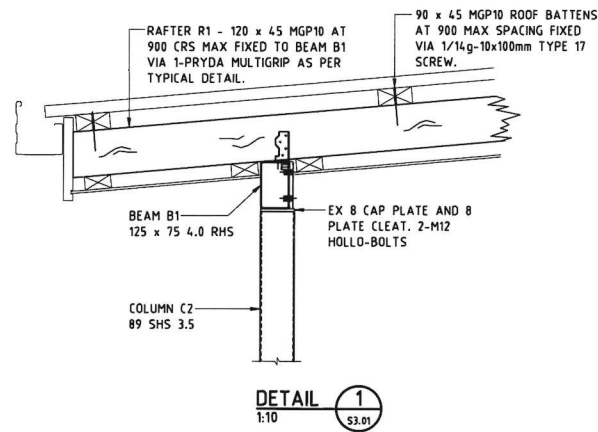
LINTEL SCHEDULE -	
MAXIMUM SPAN (mm)	LINTEL DIMENSIONS (mm)
700 OR LESS	75 x 8 FMS
1910	90 x 90 x 6 EA
2210	100 x 100 x 6 EA
2510	100 x 100 x 8 EA
3310	150 x 90 x 8 UA
LOAD TYPE C (SHEET ROOF) OR E (MASONRY ONLY) IN ACCORDANCE WITH SECTION 12 AS 4773.1	
ROOF LOAD WIDTH 6.6m	
ROOF DESIGN DEAD LOAD: 0.5 kPa	
1. MINIMUM BEARING EACH END - SPANS UP TO 1800mm :150mm SPANS OVER 1800mm TO 3000mm :250mm	
2. ANGLE LINTELS SHALL BE TREATED AS SPECIFIED	
INTERNAL SINGLE LEAF WALLS TO HAVE FAST WALL LINTELS (OR SIMILAR APPROVED) WHERE NOMINATED BY THE ARCHITECTURAL DRAWINGS. MAX SPAN 2400.	



TYPICAL MULTI GRIP FIXINGS N.T.S.
FOR STEEL BEAM USE 2-4.8 TEKs TO TOP AND 3-4.8 TEKs TO SIDE IN LIEU OF NAILS.



BP	09.06.26	ISSUED FOR CDC & BUILDING PERMIT			J.V. P.T.
2	16.12.25	ISSUED FOR FINAL COORDINATION			C.P. P.T.
1	29.10.25	PRELIMINARY ISSUE			C.P. P.T.
REV	DATE	DESCRIPTION			BY APPR.
 terpkos -ENGINEERING-					
ph. (08) 9389 7228 (08) 9389 7221		Unit: 10/18 Stirling Hwy Newlands Park, WA 6009			
CLIENT: SHIRE OF CHAPMAN VALLEY					
PROJECT: PROPOSED CHANGE ROOMS NABAWA OVAL, CHAPMAN VALLEY, NABAWA					
TITLE: ROOF LAYOUT PLAN, SECTIONS ELEVATION, AND DETAILS					
DESIGNED	P.T.	DATE:	OCT 2025	PROJECT No:	15950
DRAWN	C.P.	SCALE:	1:100	DRAWING No:	S3.01
CHECKED	P.T.	CAD REF:	J.V. 15555381.dwg 09.26.26 1:54 PM	REVISION No:	BP
APPROVED:		THIS DRAWING SHALL BE CONSIDERED FOR REFERENCE PURPOSES ONLY AND NOT FOR CONSTRUCTION UNLESS APPROVED.			



BP	09.06.26	ISSUED FOR CDC & BUILDING PERMIT	J.V.	P.T.	
2	16.12.25	ISSUED FOR FINAL COORDINATION	C.P.	P.T.	
1	29.10.25	PRELIMINARY ISSUE	C.P.	P.T.	
REV No.	DATE	DESCRIPTION	BY	APPR.	
 terpkos -ENGINEERING-					
ph: (08) 9360 7298 (08) 9369 7221		Unit 10/18 Stirling Way Noddards Park, WA 6009			
CLIENT:	SHIRE OF CHAPMAN VALLEY				
PROJECT:	PROPOSED CHANGE ROOMS NABAWA OVAL, CHAPMAN VALLEY, NABAWA				
TITLE:	ROOF DETAILS				
DESIGNED:	P.T.	DATE:	OCT 2025	PROJECT No:	15950
DRAWN:	C.P.	SCALE:	1:10	DRAWING No:	S3.02
CHECKED:	P.T.	CAD REF:	J.V. 19165131.dwg 09.06.26 15:51 PM	REVISION No:	BP
APPROVED:	THIS DRAWING SHALL BE CONSIDERED FOR REFERENCE PURPOSES ONLY AND NOT FOR CONSTRUCTION UNLESS APPROVED.				

Handwritten signature and date: 9/6/26

TYPICAL LINTEL CONNECTION DETAIL 1:10
ROOF FRAMING OMITTED FOR CLARITY

TYPICAL GABLE EAVES DETAIL