STRUCTURAL DRAWING LIST						
SHEET NUMBER	SHEET NAME					
S-0000	COVER SHEET					
S-0001	STRUCTURAL NOTES - SHEET 1					
S-0002	STRUCTURAL NOTES - SHEET 2					
S-0200 STANDARD DETAILS MASONRY RETAINING WALLS						
S-0205 TYPICAL MASONRY DETAILS						
S-0206 TYPICAL MASONRY STIFFENERS DETAILS						
S-0210	TYPICAL FOOTING DETAILS - SHEET 1					
S-0211	TYPICAL FOOTING DETAILS - SHEET 2					
S-0230 TYPICAL COLUMN DETAILS						
S-0240	TYPICAL WALL DETAILS					
S-0250	TYPICAL STEELWORK DETAILS					
S-0260	TYPICAL SLAB ON GROUND DETAILS					
S-1010	GROUND FLOOR LOADING PLAN					
S-1020	ROOF LOADING PLAN					
S-2000	FOOTING PLAN					
S-2010	GROUND FLOOR STRUCTURAL PLAN					
S-2020	ROOF FRAMING PLAN					

REV	DESCRIPTION	BY	APP	DATE
P01	CONCEPT DESIGN DEVELOPMENT	RM	JB	12.11.24
P02	75% SCHEMATIC DESIGN	RM	JB	22.11.24
P03	95% SCHEMATIC DESIGN	RM	JB	13.12.24
P04	100% SCHEMATIC DESIGN	RM	JB	19.12.24

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT SITE INSTRUCTIONS, SKETCHES, SHOP DRAWINGS, SUB-CONTRACTOR DRAWINGS AND PROJECT CORRESPONDENCE. ACCURACY AND SET-OUT IS TO BE CONFIRMED BY SITE SURVEY.

DUPS-MHT-XX-XX-DR-0000

DRAWING No:

CLIENT SCHOOL INFRASTRUCTURE NSW

132564

MEINHARDT PROJECT No:

**COVER SHEET** 

SHEET TITLE:

PROJECT ADDRESS:

# **DUNDAS PUBLIC SCHOOL**

PROJECT TITLE:



# **STRUCTURAL DOCUMENTATION**

# 85 KISSING POINT ROAD, DUNDAS, NSW 2117

REVISION

**P04** 

### STANDARD NOTES:

### GENERA

BENERA	
1	THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS OR SKETCHES AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH WORK.
2	MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE SPECIFICATION, CURRENT SAA CODES, BUILDING REGULATIONS AND THE REQUIREMENTS OF ANY OTHER RELEVANT STATUTORY AUTHORITIES.
3	THESE DRAWINGS MUST NOT BE SCALED. ALL DIMENSIONS ARE IN mm. ALL SET OUT DIMENSIONS AND LEVELS, INCLUDING THOSE SHOWN ON THESE DRAWINGS SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S DRAWINGS AND VERIFIED ON SITE.
4	THE CONSULTING ENGINEER HAS DESIGNED THE PERMANENT STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, IMPLEMENTATION AND CERTIFICATION OF ALL TEMPORARY WORKS, PROPPING, NEEDLING, FALSE WORK, BRACING, BACK-PROPPING, AND SO FORTH, NECESSARY TO COMPLETE THE WORK.
5	DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. THE CONTRACTOR SHALL ALLOW TO ENGAGE A CHARTERED (NPER-3) ENGINEER TO DESIGN, INSPECT THE TEMPORARY WORKS AND VERIFY THE TEMPORARY STABILITY OF THE STRUCTURE.
6	THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE SUPERINTENDENT BUT IS NOT AN AUTHORIZATION OF A COST VARIATION. THE SUPERINTENDENT MUST APPROVE ANY COST VARIATION INVOLVED BEFORE ANY WORK STARTS.
7	THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION UNTIL ISSUED AS "FOR CONSTRUCTION" BY THIS OFFICE.
8	THE CONTRACTOR RETAINS RESPONSIBILITY OF THE WORKS EVEN IF THE ENGINEER HAS INSPECTED THE WORKS DURING CONSTRUCTION.
9	WHERE ADDITIONAL CONSTRUCTION LOADS, SUCH AS TEMPORARY SHORING, MOBILE CRANES, ETC. ARE TO BE IMPOSED ON THE STRUCTURE, THE CONTRACTOR SHALL SUBMIT FULL DETAILS OF THE PROPOSED TEMPORARY SUPPORTS TO THE ENGINEER FOR REVIEW. SUCH INFORMATION MUST BE PROVIDED A MINIMUM OF 7 WORKING DAYS PRIOR TO THE PROPOSED WORKS COMMENCING.
10	IF THE CONTRACTOR INTENDS TO VARY THE SCOPE OR METHOD OF WORKS OR MATERIALS USED, THE CONTRACTOR SHALL SUBMIT FULL DETAILS OF THE PROPOSAL TO THE DESIGN SUPERINTENDENT FOR DESIGN CHECK.
11	ALL PROPRIETARY PRODUCTS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
12	ALL REQUIRED TESTS TO COMPLETE THE WORKS SHALL BE AT THE CONTRACTOR'S EXPENSE.

HEALTH AND SAFETY

- THE OBLIGATION OF MEINHARDT GROUP PTY LTD FOR OTHER RELEVANT MEINHARDT ENTITY] AS THE DESIGN ENGINEER IS LIMITED TO ENSURING THAT THOSE PARTS OF THE STRUCTURE THAT ARE TO BE USED AS A WORKPLACE ARE. AS FAR AS REASONABLY PRACTICABLE, DESIGNED TO BE SAFE AND WITHOUT RISKS TO THE HEALTH OF THOSE PERSONS USING THE STRUCTURE AS A WORKPLACE FOR THE PURPOSE FOR WHICH IT WAS DESIGNED IN ACCORDANCE
- WITH SECT. 28 OF THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 (VIC). MEINHARDT IS NOT RESPONSIBLE FOR THE OCCUPATIONAL HEALTH AND SAFETY OF PERSONS AT THE SITE AS THOSE OBLIGATIONS RESIDE WITH THE CONTRACTORS AND/OR SUBCONTRACTORS WHO OCCUPY OR HAVE CONTROL OF THE SITE IN ACCORDANCE WITH APPLICABLE OCCUPATIONAL HEALTH AND SAFETY LEGISLATION, CODES OR PRACTICE, GUIDANCE NOTES, AUSTRALIAN STANDARDS AND OTHER RELEVANT DOCUMENTATION.
- ANY ADVICE OR GUIDANCE CONCERNING OCCUPATIONAL HEALTH AND SAFETY ISSUES ARISING AT THE SITE SHOULD BE DIRECTED TO THE HEALTH AND SAFETY EXECUTIVE OR OFFICER NOMINATED FOR THE PROJECT.

### FOUNDATIONS

- REFER TO THE GEOTECHNICAL REPORT FOR A DESCRIPTION OF THE ANTICIPATED F1 SITE CONDITIONS. THE BUILDER IS TO STUDY THE REPORT AND MAKE HIS OWN EVALUATION ON THE SITE CONDITIONS. ANY ADDITIONAL COSTS INCURRED SHALL BE BORNE BY THE BUILDER
- ALL FOOTINGS SHALL BE FOUNDED AT THE RECOMMENDED DEPTH AND INTO THE F2 APPROPRIATE MATERIAL AS SPECIFIED IN THE GEOTECHNICAL REPORT. THE ALLOWABLE BEARING CAPACITY SHALL BE AS SPECIFIED IN THE FOOTING SCHEDULE. THE TOPS OF FOOTINGS SHALL BE A MINIMUM OF 300mm BELOW THE LOWEST ADJACENT STRUCTURAL FLOOR LEVEL UNLESS NOTED OTHERWISE.
- THE ALLOWABLE BEARING CAPACITY SHALL BE VERIFIED BY GEOTECHNICAL F3 ENGINEER. WHO SHALL BE EMPLOYED BY THE BUILDER. BEFORE ANY CONCRETE IS PLACED. WHEREVER THE BEARING CAPACITY AT THE FOOTING BASE IS INADEQUATE, EXCAVATION SHALL CONTINUE UNTIL SUITABLE MATERIAL IS FOUND OR THE FOOTING IS ENLARGED TO THE ENGINEER DETAILS.
- BASES OF ALL FOOTINGS SHALL BE CLEANED OF ALL LOOSE MATERIAL PRIOR TO F4 POURING OF CONCRETE. IN WET CONDITIONS, A 300 x 300 x 300 PIT SHALL BE DUG AT THE CORNER OF THE FOOTING FOR DEWATERING THE EXCAVATION BEFORE CONCRETING. A 50mm MINIMUM BLINDING LAYER OF N15 GRADE CONCRETE SHALL BE USED, UNLESS OTHERWISE APPROVED BY THE ENGINEER
- WHENEVER A FOOTING IS LOCATED CLOSE TO A BATTER, AN EXISTING FOOTING EXISTING OR NEW SERVICES. A LINE DRAWN AT THE BOTTOM OF THE FOOTING A 40 DEGREES TO THE HORIZONTAL SHALL FALL BELOW THE BATTER, EXISTING FOOTING OR SERVICES. IF THIS DOES NOT HAPPEN THE FOOTING BASE SHALL BE DEEPENED AS REQUIRED TO ACHIEVE THE FORMER.
- THE OVER BREAK BETWEEN THE APPROVED FOUNDING LEVEL AND THE UNDERSIDE OF THE FOOTING SHALL BE FILLED WITH GRADE N15 CONCRETE, ANY OVER BREAK AT THE SIDES OF THE FOOTING SHALL BE FILLED WHEN CONCRETING THE FOOTING.
- THE BUILDER SHALL REMOVE ALL SPOIL FROM THE SITE. AND DEWATER THE EXCAVATION AS REQUIRED.

CONCRETE GRADE PAD AND STRIP FOOTINGS: N4(

### STRUCTURAL DESIGN BASED ON GEOTECHNICAL INVESTIGATION REPORT REFERENCE: A201023.0722.03 A v1f

ADE CONSULTING GROUP Pty Ltd DATED: 28 February 2024

## **SLAB ON GROUND NOTES**

- SOG1 ALL CONCRETE WORK TO COMPLY WITH AS 3600 CONCRETE CODE, AND BCA SECTIONS 3.1 AND 3.2
- CONCRETE GRADE N20 MINIMUM (SOG) SOG2 CONCRETE GRADE N40 MINIMUM (ALL OTHER STRUCTURES)
- SOG3 ALL VEGETATION SHALL BE STRIPPED TO A MINIMUM DEPTH OF 150mm. ANY SOFT SPOTS OR DELETERIOUS MATERIAL SHALL BE REMOVED AND REPLACED WITH APPROVED GRANULAR FILLING COMPACTED TO 100% AS. STANDARD COMPACTION MINOR FILLING (800 MAXIMUM) SHALL BE PROVIDED WHERE REQUIRED TO BRING SUB GRADE TO REQUIRED LEVEL IN ACCORDANCE WITH LIMITS STATED IN AS 2870 AND BCA. FILLING SHALL BE APPROVED GRANULAR MATERIAL PLACED IN 150mm AND COMPACTED TO 100% AS, STANDARD COMPACTION.
- SOG4 A 0.2mm VAPOUR BARRIER SHALL BE USED, LAPPED A MINIMUM OF 200mm AT JOINTS AND TAPED AROUND SERVICES FITTINGS WITH ADHESIVE TAPE NOT INFERIOR TO DOUBLE SIDED BUTYL ADHESIVE TAPE. THE VAPOUR BARRIER SHALL BE PLACED ON A 50mm MINIMUM SAND BED OR SIMILAR APPROVED MATERIAL PROTECT MEMBRANE FROM DAMAGE
- SOG5 TRENCH MESH IN BEAMS SHALL BE OVERLAPPED BY THE WIDTH OF FABRIC AT 'T' AND 'L' INTERSECTIONS AND SPLICED WITH A LAP OF 500mm. RANDOM LAP N12 BARS BY 500mm STAGGERED. THE OUTER BAR AT 'L' INTERSECTION MUST BE BENT AND CONTINUED FOR 500mm AROUND THE CORNER
- SOG6 SLAB FABRIC TO BE LAPPED SUCH THAT THE TWO OUTERMOST TRANSVERSE WIRE OF ONE SHEET OF MESH OVERLAP THE TWO OUTERMOST TRANSVERSE WIRES OF THE SHEET BEING LAPPED BY A MINIMUM OF 25mm AND BE SUPPORTED ON BAR CHAIRS AT 800mm MAXIMUM CENTERS.
- SOG7 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SITE INVESTIGATION REPORT TO DETERMINE FOUNDING DEPTHS. SOG8 SITE CLASSIFICATION TO AS 2870 CLASS H ENGINEERING PRINCIPLES TO SECTIONS
- 4 OF AS 2870. LOAD BEARING EXTERNAL AND INTERNAL BEAMS AND LOAD SUPPORT THICKENINGS SOG9 ARE TO BE FOUNDED ON NATURAL SOIL WITH AN ALLOWABLE BEARING PRESSURE OF NOT LESS THAN 100 kPa.
- SOG10 SLAB PANELS ARE TO BE FOUNDED ON NATURAL SOIL WITH AN ALLOWABLE BEARING PRESSURE OF NOT LESS THAN 50 kPa.
- SOG11 TOP OF SLAB SHALL BE 150mm MINIMUM ABOVE THE FINAL GROUND LEVEL. SOG12 DRAINAGE AND GRADING AWAY FROM SLAB SHALL BE PROVIDED TO PREVENT WATER COLLECTING ADJACENT TO SLAB. TREATMENT OF AREAS SURROUNDING SLAB SHALL ALSO BE IN ACCORDANCE WITH RECOMMENDATIONS BY THE HOUSING GUARANTEE FUND AND THE OWNER/OCCUPIER SHALL BE PROVIDED WITH A COPY OF CSIRO INFORMATION SHEET No. 10-19.
- SOG13 BRICKWORK CONTROL JOINTS ARE TO BE PROVIDED ON SIDES EXCEEDING 6000mm IN LENGTH OR THROUGH LARGE OPENINGS FROM EAVES TO SLAB OR THROUGH FULL HEIGHT WINDOWS AND DOORS.
- SOG14 WHERE REQUIRED BY COUNCIL PROTECT THE STRUCTURE FROM SUBTERRANEAN TERMITES IN ACCORDANCE WITH AS 3660 AND BCA

### SUSPENDED SLAB ON GROUND NOTES

- SSG1 ALL CONCRETE WORK TO COMPLY WITH AS 3600 CONCRETE CODE, AND BCA VOLUME 1, SECTIONS 3.1 AND 3.2 CONCRETE GRADE N40 MINIMUM ALL VEGETATION SHALL BE STRIPPED TO A MINIMUM DEPTH OF 150mm. SSG3
- ALLOW FOR COMPACTION OF EXISTING GROUND SURFACE OR FILL SUFFICIENT TO SSG4 SUPPORT WET WEIGHT OF SUSPENDED SLAB ON GROUND PLUS FORMWORK AND PROPPED STRUCTURE ABOVE. AS ADVISED BY GEOTECHNICAL CONSULTANT ANY SOFT SPOTS OR DELETERIOUS MATERIAL SHALL BE REMOVED AND REPLACED SSG5
- WITH SELECTED FILL COMPACTED IN ACCORDANCE WITH NOTE SSG4. SSG PROVIDE SELECTED FILL TO ACHIEVE REQUIRED SUB-GRADE R.L., COMPACTED IN ACCORDANCE WITH NOTE SSG4.
- A 0.2mm VAPOUR BARRIER SHALL BE USED, LAPPED A MINIMUM OF 200mm AT JOINTS SSG7 AND TAPED AROUND SERVICES FITTINGS WITH ADHESIVE TAPE NOT INFERIOR TO DOUBLE SIDED BUTYL ADHESIVE TAPE. THE VAPOUR BARRIER SHALL BE PLACED ON A 50mm MINIMUM SAND BED OR SIMILAR APPROVED MATERIAL TO PROTECT MEMBRANE FROM DAMAGE.
- TOP OF SLAB SHALL BE 150mm MINIMUM ABOVE THE FINAL GROUND LEVEL. SSG8 SSG DRAINAGE AND GRADING AWAY FROM SLAB SHALL BE PROVIDED TO PREVENT
- WATER COLLECTING ADJACENT TO SLAB. WHERE REQUIRED BY COUNCIL PROTECT THE STRUCTURE FROM SUBTERRANEAN SSG10
- TERMITES IN ACCORDANCE WITH AS 3660 AND BCA. BAR CHAIR BASES ARE TO BE PROVIDED BENEATH ALL REINFORCING BAR CHAIRS
- O ENSURE NO SETTLEMENT TO REINFORCEMENT OR DAMAGE TO VAPOUR BARRIER. SUB-GRADE AND SAND LAYER TO BE PREPARED SUCH THAT A STABLE AND LEVEL SSG12 PLATFORM IS CONSTRUCTED ENSURING UNIFORM COVER TO REINFORCEMENT IS ACHIEVED ACROSS THE ENTIRE EXTENT OF THE SLAB.

### BORED PILES

- BP1 REFER TO THE GEOTECHNICAL REPORT FOR A DESCRIPTION OF THE ANTICIPATED SITE CONDITIONS. THE PILING CONTRACTOR IS TO STUDY THE REPORT AND MAKE HIS OWN EVALUATION OF THE SITE CONDITIONS. ANY ADDITIONAL COSTS INCURRED SHALL BE BORNE BY THE PILING CONTRACTOR.
- BP2 THE BORED PILES ARE PROPORTIONED FOR THE SCHEDULED LOADS WITH ALLOWABLE SOCKET SKIN FRICTION AND END BEARING CAPACITY AS INDICATED IN THE REPORT. THE DEPTHS AND LENGTHS NOMINATED IN THE SCHEDULE ARE INDICATIVE ONLY. THEY MAY NEED TO BE VARIED DEPENDING ON THE SITE CONDITIONS ENCOUNTERED. THE PILING CONTRACTOR NEEDS TO INCORPORATE ANY DESIGN CHANGES REQUIRED
- BP3 THE BORED PILES SHALL BE INSTALLED TO A MAXIMUM TOLERANCE OF ±75mm FROM THAT REQUIRED IN PLAN AND INCLINED AT NOT MORE THAN 1 IN 75 FROM THE VERTICAL OR SPECIFIED RAKE. BP4 ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 2159.
- BP5 THE BORED PILES SHALL BE LOCATED CONCENTRIC WITH THE COLUMNS AND WALLS UNLESS NOTED OTHERWISE.
- BP6 DRILL AND INSTALL THE BORED PILES IN THE LOCATIONS SHOWN ON THE DRAWINGS AND THE ABOVE REQUIREMENTS. BP7 BEFORE ANY CONCRETE IS POURED, ALL ROCK SOCKETS SHALL BE DEWATERED AND INSPECTED BY THE GEOTECHNICAL ENGINEER , WHO SHALL BE EMPLOYED BY
- THE BUILDER, TO VERIFY THE SOIL PARAMETERS. THE SOCKET BASE AND WALLS MUST BE CLEAN AND FREE FROM CLAY. BP8 IF THE CONCRETE NEEDS TO BE TREMIED, SUPER PLASTICIZER MUST BE ADDED TO
- THE MIX AND THE CONCRETE GRADE INCREASED BY 30% . REFER TO THE SPECIFICATIONS FOR THE INSPECTION OF THE HOLE PRIOR TO CONCRETING. BP9 THE PILING CONTRACTOR SHALL ALLOW FOR THE COST OF INTEGRITY TESTING FOR
- A MINIMUM OF 10% OF ALL BORED PILES IN ACCORDANCE TO THE PILING CODE A.S. 2159. BP10 ANY ALTERNATIVE DESIGN SHALL MEET THE ABOVE REQUIREMENTS AND THE SCHEDULED LOADS. THE PILING CONTRACTOR SHALL OBTAIN CERTIFICATION FOR THE CALCULATIONS OF THE ALTERNATIVE SYSTEM. THE DETAILS AND CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE PERFORMANCE OF THE ALTERNATIVE BORED PILES.

ROJECT NORTH

6000

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT
SITE INSTRUCTIONS, SKETCHES, SHOP DRAWINGS, SUB-CONTRACTOR
DRAWINGS AND PROJECT CORRESPONDENCE.
ACCURACY AND SET-OUT IS TO BE CONFIRMED BY SITE SURVEY.

BY APP DATE

RM JB 12.11.24

RM JB 22.11.24

RM JB 1

RM JB

			SC	ALE (mm)	) 1:100
	0	100	00 200	10	4000
9.12.24	_			_	
3.12.24					



# **STRUCTURAL NOTES**

	ETE	SHALL COMPLY	Y TO AS3600 AND AS 361	10	STRU	JCTURA	AL MASONRY
C1		DO NOT INCLUDE FI			M1		BLOCKWORK WALLS SHALL BE CONSTRUCTED IN UNITS WITH A MINIMUM
C2			OTHER THAN THOSE SH				RACTERISTIC UNCONFINED COMPRESSIVE STRENGTH fcu = 15 MPa. BRICKS SHALL HAVE A MINIMUM CHARACTERISTIC UNCONFINED COMPRESSIVE
C3	DEPTHS OF BEAMS	ARE GIVEN FIRST A	AND INCLUDE SLAB THIC	CKNESS, SLABS AND		STR	ENGTH fcu = 25 MPa.
C4	CONCRETE SHALL	BE KEPT FREE OF S	ILESS OTHERWISE NOTE SUPPORTING MASONRY	WITH TWO LAYERS			MAXIMUM UNRESTRAINED FIVE YEAR EXPANSION OF BRICKS SHALL BE Im/m IN ACCORDANCE WITH NATA REGISTERED TEST BO1.
			OR EQUAL). VERTICAL FA		M2		ESS NOTED OTHERWISE THE NOMINAL PROPORTIONS BY VOLUME OF MORTAR LL BE CLASS M3 AND HAVE NOMINAL PROPERTIES OF 1 : 1 : 6 OF CEMENT.
	SHALL BE KEPT 20	mm CLEAR OF THE	UNDERSIDE OF SLABS A			LIME	E, SAND. NO PLASTICISERS SHALL BE USED IN THE MIX.
C5	NOTED OTHERWISE CONSTRUCTION JC		OPERLY FORMED AND LO	OCATED TO THE	M3		DUT USED TO FILL CAVITIES AND CORES IN REINFORCED MASONRY SHALL IE A MINIMUM 28 COMPRESSIVE STRENGTH fc OF 20 MPa AND A SLUMP OF
	SATISFACTION OF CONSTRUCTION JC		ILDER SHALL ALLOW FOR	R ALL NECESSARY			±25mm. MAXIMUM AGGREGATE SHALL BE OF 10mm ROUNDED GRAVEL. NOMINAL PORTIONS SHALL BE 1 : 0.1 : 3 : 2 OF CEMENT, LIME, SAND, AGGREGATE AND 3
C6	WHERE NOTED ON	DRAWINGS CAMBE	R TO SUSPENDED SLAB			WITH	H A MINIMUM CEMENT CONTENT OF 300 kg/m3/ . PROVIDE CLEAN OUT HOLES AT
			S OTHERWISE NOTED. V THE UPPER SURFACE S				E OF PILASTERS AND EVERY CORE OF REINFORCED WALLS. CLEAN OUT AND DOWN CORES BEFORE GROUTING. ALL CORES CONTAINING VERTICAL AND
07	CAMBERED. DEPTH	I GAUGES SHALL BE	E USED TO VERIFY THE S	SLAB THICKNESS.	M4	HOR	RIZONTAL REINFORCEMENT ARE TO BE GROUTED.
C7			IATICALLY AND IS NOT N EMENT SHALL BE MADE (		WI4		RIZONTAL JOINT REINFORCEMENT CONSISTING OF GALVANISED WOVEN WIRE SH OR WELDED WIRE SHALL BE PROVIDED. THE WIDTH SHALL BE SUCH THAT
			APPROVED BY THE ENC OUT BY A QUALIFIED WE				M COVER FROM THE MORTAR FACE IS PROVIDED. THE MESH SHALL BE PLACED HE FIRST THREE COURSES AT THE TOP AND BOTTOM OF THE WALL AND AT A
	WITH AS/NZS 1554	AND THE REINFORC	CEMENT SUPPLIER RECO	OMMENDATIONS. THE		MAX	IMUM 600 mm VERTICAL SPACING IN BETWEEN, FOR ALL CONCRETE
	WITH AS/NZS 1554 I		LESS THAN 200 DEGREE	S IN ACCORDANCE			CKWORK, CONCRETE BRICKWORK AND CALCIUM SILICATE BRICKWORK. THE SH SHALL BE LAPPED 450mm AT SPLICES AND FOLDED AND BENDED AT THE
C8		ENT SYMBOLS ARE:		ARS WITH fsy = 500 MPa.			RNERS SO THAT THE LONGITUDINAL WIRES ARE CONTINUOUS. THE MESH IS PPED 100mm SHORT OF CONTROL JOINTS OR ENDS OF WALLS.
	R NORMAL DUCTILI	TY CLASS 250N PLA	AIN ROUND BARS WITH fs	sy = 250 MPa.	M5	FULI	LY BED FACE SHELLS AND CROSS WEBS IN HOLLOW BLOCK WALLS. SOLID OR
	L LOW DUCTILITY C fsy = 500MPa.	LASS HARD DRAWN	N 500L WIRE REINFORCI	NG MESH WITH	M6		ED UNITS SHALL BE LAID ON A FULL BED OF MORTAR.
	DO NOT USE LOW [	DUCTILITY CLASS L	REINFORCEMENT UNLES	SS SHOWN ON THE		HOR	RIZONTALLY SHALL BE TRIMMED AT THE SIDES AND BOTTOM BY FILLING ONE
			DRCEMENT SYMBOL IS T			OF T	RE AND REINFORCED WITH 1N12 EXTENDING 600mm PAST OPENING. THE TOP THE OPENING SHALL HAVE A REINFORCED LINTEL BEAM, ARCH BAR OR STEEL
			ORCEMENT SHALL COM CONCRETE SHALL COM		М7		LE SUPPORT AS DETAILED. TIES AND REINFORCEMENT SHALL HAVE MINIMUM CLEAR COVER OF 50mm TO
	AS/NZS 4671. WHEF	RE APPLICABLE, MA	TERIALS SHALL BE CUT		1117	EXT	ERNAL FACE OF MASONRY. TIES SHALL CONFORM TO AS 2699. ALL TIES SHALL
	ACCORDANCE WITH ACCEPTABLE MANU	,	OR AS 2870. PROCESSORS OF STEEL	. REINFORCING AND			BY "CERRA METALWORKS" OR APPROVED EQUIVALENT. THE TIES SHALL BE D TO THE MANUFACTURER'S RECOMMENDATIONS BUT WITH A MINIMUM OF
			SO HOLD A VALID CERTIF				N. RAMSET 3.8mm DIAMETER DRIVE PINS. ALL TIES SHALL BE AT 400mm (IMUM CENTRES UNLESS NOTED OTHERWISE.
	STEELS LTD (ACRS	). MATERIALS CERT	IFIED TO AN ALTERNATI	VE SYSTEM SHALL	M8	NO (	CAVITY OR CORE SHALL BE FILLED TO A HEIGHT GREATER THAN 1200mm
		IOUT DEMONSTRAT	ED EQUIVALENCE AND S	SUBSEQUENT	M9		HOUT SUITABLE SHORING. CHASES OR HOLES SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE
	EVIDENCE OF COM	PLIANCE WITH THIS	CLAUSE MUST BE OBTA	AINED WHEN		ENG	INEER. CONDUITS AND THE LIKE SHALL NOT BE PLACED INSIDE CORES
C9		SHALL COMPLY WIT	TH AS3600 UNLESS NOT		M10		ITAINING REINFORCEMENT. TICAL JOINTS SHALL BE AT THE LESSER OF 6000mm OR TWICE THE HEIGHT OF
			BARS OR APPROVED EC HALL BE CARRIED OUT I				WALL AND AT THE FOLLOWING LOCATIONS: MAJOR CHANGES IN WALL HEIGHT
	AS3600, AS/NZS 467	71, THE SPECIFICAT	IONS AND THE REINFOR	RCEMENT SUPPLIER		- AT	CHANGES IN WALL THICKNESSES OTHER THAN PIERS OR BUTTRESSES
			IT BE HEATED ABOVE 400 THERMAL CRAYONS SH				CONTROL JOINTS IN THE ADJACENT STRUCTURAL ELEMENTS CHASES AND RECESSES FOR PIPING, COLUMNS FIXTURES ETC.
C10	ENSURE COMPLIAN		PERATURE LIMIT. ND CONCRETE GRADES				ONE OR BOTH SIDES OF WALL OPENINGS AR WALL INTERSECTIONS
010	FOLLOWS UNLESS	NOTED OTHERWISE	E: THE COVER SHALL NO			- NE	AR RETURN ANGLES IN L, T AND U SHAPED STRUCTURES
	THE BAR DIAMETER	R AND:					IERE SHOWN IN THE ARCHITECTURAL DRAWINGS CONTRACTOR IS TO OBTAIN APPROVED DRAWINGS SHOWING THE CONTROL
ELEMENT		FORMED	FORMED AND EXPOSED TO	NOT INFORMED CAST AGAINST	M11	JOIN	ITS PRIOR TO BUILDING ANY WALLS. INTERSECTIONS THAT DON'T HAVE A CONTROL JOINT SHALL BE OF BONDED
		INTERNAL	WEATHER (1.)	GROUND (2.)	IVI I I	CON	ISTRUCTION OR TIED WITH HEAVY DUTY TIES AT 400mm MAXIMUM VERTICAL
FOOTING	S, PILE CAPS		60	75	M12		ITRES. CAVITY WALLS ARE TO BE CONSTRUCTED USING MEDIUM DUTY MASONRY
	, PEDESTALS	20	50	75			AT 600mm MAXIMUM CENTRES BOTH WAYS AND 300mm AVERAGE CENTRES H SIDE OF OPENINGS. THE TIES SHALL BE EMBEDDED 50mm MINIMUM INTO
						EAC	H LEAF, WITH A 30mm COVER TO THE EXPOSED FACES.
SLABS, BA	AND BEAMS	20(3.)	40	60	M13	WHE	ERE A CONCRETE SLAB IS SUPPORTED ON MASONRY WALLS, THE TOP COURSE
BEAMS		20	40			OF E	BLOCKS SHALL BE SOLID OR HOLLOW BLOCKS WITH CAVITIES FILLED TO A
WALLS			40	60		SMC	BLOCKS SHALL BE SOLID OR HOLLOW BLOCKS WITH CAVITIES FILLED TO A DOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE
HORIZO			40	60		SMC UPP	
VERTIC		20 30	40	60	M14	SMC UPP SMC UND	OOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A OOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE.
VERTICA	AL	30	40 50	60 60	M14 M15	SMC UPP SMC UND BON WHE	OOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A OOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE. IDING SHALL BE STRETCHER BOND UNLESS NOTED OTHERWISE. EN CONSTRUCTING MASONRY WALLS ON SUSPENDED SLABS, ALL MASONRY
			40	60		SMC UPP SMC UND BON WHE UNIT	OOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A OOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE. IDING SHALL BE STRETCHER BOND UNLESS NOTED OTHERWISE.
	AL CONCRETE GRADE FOR EXPOSURE CL	30 N40 ASSIFICATION B2 AI	40 50	60 60 N40	M15	SMC UPP SMC UND BON WHE UNIT WAL ACH	OOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A OOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE. IDING SHALL BE STRETCHER BOND UNLESS NOTED OTHERWISE. EN CONSTRUCTING MASONRY WALLS ON SUSPENDED SLABS, ALL MASONRY IS SHALL BE STACKED NEAR THE FINAL LOCATION BEFORE BUILDING THE L. THE SUPPORTING ELEMENT MUST NOT BE PROPPED AND MUST HAVE IEVED ITS DESIGN STRENGTH.
MINIMUM	AL CONCRETE GRADE FOR EXPOSURE CL GRADE SHALL BE N	30 N40 ASSIFICATION B2 AI	40 50 N40	60 60 N40 AND THE CONCRETE		SMC UPP SMC UND BON WHE UNIT WAL ACH FOR WAL	DOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A DOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE. IDING SHALL BE STRETCHER BOND UNLESS NOTED OTHERWISE. EN CONSTRUCTING MASONRY WALLS ON SUSPENDED SLABS, ALL MASONRY ITS SHALL BE STACKED NEAR THE FINAL LOCATION BEFORE BUILDING THE LL. THE SUPPORTING ELEMENT MUST NOT BE PROPPED AND MUST HAVE IEVED ITS DESIGN STRENGTH. AREAS OF THE STRUCTURAL FLOOR SYSTEM WHICH SUPPORT MASONRY LS/ PARTITIONS OR OTHER SENSITIVE ATTACHMENTS AT THE TIME OF THE
MINIMUM (1) (2)	AL CONCRETE GRADE FOR EXPOSURE CL GRADE SHALL BE N IF THE ELEMENT IS BY 20mm.	30 N40 ASSIFICATION B2 AI I40 MINIMUM. CAST ON A DAMP F	40 50 N40 DD 5mm TO THE COVER PROOF MEMBRANE, DEC	60 60 N40 AND THE CONCRETE BREASE THE COVER	M15	SMC UPP SMC UND BON WHE UNIT WAL FOR WAL INITI	DOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A DOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE. IDING SHALL BE STRETCHER BOND UNLESS NOTED OTHERWISE. EN CONSTRUCTING MASONRY WALLS ON SUSPENDED SLABS, ALL MASONRY ITS SHALL BE STACKED NEAR THE FINAL LOCATION BEFORE BUILDING THE LL. THE SUPPORTING ELEMENT MUST NOT BE PROPPED AND MUST HAVE IEVED ITS DESIGN STRENGTH. AREAS OF THE STRUCTURAL FLOOR SYSTEM WHICH SUPPORT MASONRY LS/ PARTITIONS OR OTHER SENSITIVE ATTACHMENTS AT THE TIME OF THE IAL DESIGN, THE FLOOR SYSTEM HAS BEEN DESIGNED FOR NOT LESS THAN
MINIMUM (1)	AL CONCRETE GRADE FOR EXPOSURE CL GRADE SHALL BE N IF THE ELEMENT IS BY 20mm.	30 N40 ASSIFICATION B2 A I40 MINIMUM. CAST ON A DAMP F G TENDONS THE MI	40 50 N40 DD 5mm TO THE COVER PROOF MEMBRANE, DEC INIMUM COVER SHALL B	60 60 N40 AND THE CONCRETE BREASE THE COVER	M15 M16	SMC UPP SMC UND BON WHE UNIT WAL FOR WAL INITI THE MINI	DOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A DOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE. IDING SHALL BE STRETCHER BOND UNLESS NOTED OTHERWISE. EN CONSTRUCTING MASONRY WALLS ON SUSPENDED SLABS, ALL MASONRY ITS SHALL BE STACKED NEAR THE FINAL LOCATION BEFORE BUILDING THE LL. THE SUPPORTING ELEMENT MUST NOT BE PROPPED AND MUST HAVE IEVED ITS DESIGN STRENGTH. AREAS OF THE STRUCTURAL FLOOR SYSTEM WHICH SUPPORT MASONRY LS/ PARTITIONS OR OTHER SENSITIVE ATTACHMENTS AT THE TIME OF THE IAL DESIGN, THE FLOOR SYSTEM HAS BEEN DESIGNED FOR NOT LESS THAN REQUIREMENTS OF AS 3600 TABLE 2.4.2 " WHERE PROVISION IS MADE TO IMISE THE EFFECT OF MOVEMENT".
MINIMUM (1) (2) (3)	AL CONCRETE GRADE FOR EXPOSURE CL GRADE SHALL BE N IF THE ELEMENT IS BY 20mm. FOR PRESTRESSIN	30 N40 ASSIFICATION B2 A I40 MINIMUM. CAST ON A DAMP F G TENDONS THE MI	40 50 N40 DD 5mm TO THE COVER PROOF MEMBRANE, DEC INIMUM COVER SHALL B	60 60 N40 AND THE CONCRETE BREASE THE COVER	M15	SMC UPP SMC UND BON WHE UNIT WAL ACH FOR WAL INITI THE MINI GEN	DOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A DOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE. IDING SHALL BE STRETCHER BOND UNLESS NOTED OTHERWISE. EN CONSTRUCTING MASONRY WALLS ON SUSPENDED SLABS, ALL MASONRY ITS SHALL BE STACKED NEAR THE FINAL LOCATION BEFORE BUILDING THE LL. THE SUPPORTING ELEMENT MUST NOT BE PROPPED AND MUST HAVE IEVED ITS DESIGN STRENGTH. AREAS OF THE STRUCTURAL FLOOR SYSTEM WHICH SUPPORT MASONRY LS/ PARTITIONS OR OTHER SENSITIVE ATTACHMENTS AT THE TIME OF THE IAL DESIGN, THE FLOOR SYSTEM HAS BEEN DESIGNED FOR NOT LESS THAN REQUIREMENTS OF AS 3600 TABLE 2.4.2 " WHERE PROVISION IS MADE TO
MINIMUM (1) (2) (3)	AL CONCRETE GRADE FOR EXPOSURE CL GRADE SHALL BE N IF THE ELEMENT IS BY 20mm. FOR PRESTRESSIN IN CORROSIVE SOI NOTES: COVER IS THE CLE	30 N40 ASSIFICATION B2 A I40 MINIMUM. CAST ON A DAMP F G TENDONS THE MI LS AND WATER: N50 AR DISTANCE BETW	40 50 N40 DD 5mm TO THE COVER PROOF MEMBRANE, DEC INIMUM COVER SHALL B D	60 60 N40 AND THE CONCRETE CREASE THE COVER E 25mm.	M15 M16	SMC UPP SMC UND BON WHE UNIT WAL ACH FOR WAL INITI THE MINI GEN BUT TYPI	DOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A DOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE. IDING SHALL BE STRETCHER BOND UNLESS NOTED OTHERWISE. EN CONSTRUCTING MASONRY WALLS ON SUSPENDED SLABS, ALL MASONRY TS SHALL BE STACKED NEAR THE FINAL LOCATION BEFORE BUILDING THE LL. THE SUPPORTING ELEMENT MUST NOT BE PROPPED AND MUST HAVE IEVED ITS DESIGN STRENGTH. AREAS OF THE STRUCTURAL FLOOR SYSTEM WHICH SUPPORT MASONRY LS/ PARTITIONS OR OTHER SENSITIVE ATTACHMENTS AT THE TIME OF THE IAL DESIGN, THE FLOOR SYSTEM HAS BEEN DESIGNED FOR NOT LESS THAN REQUIREMENTS OF AS 3600 TABLE 2.4.2 " WHERE PROVISION IS MADE TO IMISE THE EFFECT OF MOVEMENT". IERIC JOINT DETAILS ARE INDICATED ON THESE DRAWINGS FOR INFORMATION, IT IS THE ARCHITECT'S RESPONSIBILITY TO IDENTIFY JOINT LOCATIONS AND ES WHERE APPROPRIATE ON ARCHITECTURAL DRAWINGS, AND TO PROVIDE
(1) (2) (3) (4)	AL CONCRETE GRADE FOR EXPOSURE CL GRADE SHALL BE N IF THE ELEMENT IS BY 20mm. FOR PRESTRESSIN IN CORROSIVE SOII NOTES: COVER IS THE CLEA (INCLUDING FITMEN FOR ALL EXTERNAL	30 N40 ASSIFICATION B2 A I40 MINIMUM. CAST ON A DAMP F G TENDONS THE MI LS AND WATER: N50 AR DISTANCE BETW NTS) AND THE FACE _ SURFACES, PROVI	40 50 N40 DD 5mm TO THE COVER PROOF MEMBRANE, DEC INIMUM COVER SHALL B D VEEN ANY REINFORCING OF THE STRUCTURAL E IDE FULLY PLASTIC BAR	60 60 N40 AND THE CONCRETE CREASE THE COVER E 25mm. ELEMENT. CHAIRS. TIE WIRE	M15 M16 M17	SMC UPP SMC UND BON WHE UNIT WAL ACH FOR WAL INITI THE MINIT GEN BUT TYPI DET. MOV	DOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A DOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE. IDING SHALL BE STRETCHER BOND UNLESS NOTED OTHERWISE. EN CONSTRUCTING MASONRY WALLS ON SUSPENDED SLABS, ALL MASONRY IS SHALL BE STACKED NEAR THE FINAL LOCATION BEFORE BUILDING THE L. THE SUPPORTING ELEMENT MUST NOT BE PROPPED AND MUST HAVE IEVED ITS DESIGN STRENGTH. A REAS OF THE STRUCTURAL FLOOR SYSTEM WHICH SUPPORT MASONRY LS/ PARTITIONS OR OTHER SENSITIVE ATTACHMENTS AT THE TIME OF THE IAL DESIGN, THE FLOOR SYSTEM WHICH SUPPORT MASONRY LS/ PARTITIONS OR OTHER SENSITIVE ATTACHMENTS AT THE TIME OF THE IERIC JOINT DETAILS ARE INDICATED ON THESE DRAWINGS FOR INFORMATION, IT IS THE AFCHITECT'S RESPONSIBILITY TO IDENTIFY JOINT LOCATIONS AND ES WHERE APPROPRIATE ON ARCHITECTURAL DRAWINGS, AND TO PROVIDE AILS OF NON-STANDARD ELEMENTS TO ACCOMMODATE ANTICIPATED /EMENTS.
(1) (2) (3) (4) (i)	AL CONCRETE GRADE FOR EXPOSURE CL GRADE SHALL BE N IF THE ELEMENT IS BY 20mm. FOR PRESTRESSIN IN CORROSIVE SOII NOTES: COVER IS THE CLEA (INCLUDING FITMEN FOR ALL EXTERNAL SHALL NOT BE NAIL	30 N40 ASSIFICATION B2 AI I40 MINIMUM. CAST ON A DAMP F G TENDONS THE MI LS AND WATER: N50 AR DISTANCE BETW NTS) AND THE FACE SURFACES, PROVI LED TO THE FORMS	40 50 N40 DD 5mm TO THE COVER PROOF MEMBRANE, DEC INIMUM COVER SHALL B 0 VEEN ANY REINFORCING E OF THE STRUCTURAL E IDE FULLY PLASTIC BAR 5, REINFORCING BARS SH	60 60 N40 AND THE CONCRETE CREASE THE COVER E 25mm. ELEMENT. CHAIRS. TIE WIRE HALL NOT BE USED	M15 M16	SMC UPP SMC UND BON WHE UNIT WAL ACH FOR WAL INITI THE MINI GEN BUT TYPI DET. MOV OBS	DOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A DOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE. IDING SHALL BE STRETCHER BOND UNLESS NOTED OTHERWISE. EN CONSTRUCTING MASONRY WALLS ON SUSPENDED SLABS, ALL MASONRY IS SHALL BE STACKED NEAR THE FINAL LOCATION BEFORE BUILDING THE L. THE SUPPORTING ELEMENT MUST NOT BE PROPPED AND MUST HAVE IEVED ITS DESIGN STRENGTH. A REAS OF THE STRUCTURAL FLOOR SYSTEM WHICH SUPPORT MASONRY LS/ PARTITIONS OR OTHER SENSITIVE ATTACHMENTS AT THE TIME OF THE IAL DESIGN, THE FLOOR SYSTEM WHICH SUPPORT MASONRY INSE THE EFFECT OF MOVEMENT". IERIC JOINT DETAILS ARE INDICATED ON THESE DRAWINGS FOR INFORMATION, IT IS THE ARCHITECT'S RESPONSIBILITY TO IDENTIFY JOINT LOCATIONS AND ES WHERE APPROPRIATE ON ARCHITECTURAL DRAWINGS, AND TO PROVIDE AILS OF NON-STANDARD ELEMENTS TO ACCOMMODATE ANTICIPATED /EMENTS.
(1) (2) (3) (4) (i)	AL CONCRETE GRADE FOR EXPOSURE CL GRADE SHALL BE N IF THE ELEMENT IS BY 20mm. FOR PRESTRESSIN IN CORROSIVE SOII NOTES: COVER IS THE CLE. (INCLUDING FITMEN FOR ALL EXTERNAI SHALL NOT BE NAIL TO KEEP FORMS AF PROVIDE AN APPRO	30 N40 ASSIFICATION B2 AI I40 MINIMUM. CAST ON A DAMP F IG TENDONS THE MI LS AND WATER: N50 AND WATER: N50 AND THE FACE SURFACES, PROVI LED TO THE FORMS. PART AND A THROU OVED VAPOUR BARI	40 50 N40 DD 5mm TO THE COVER PROOF MEMBRANE, DEC INIMUM COVER SHALL B 0 VEEN ANY REINFORCING E OF THE STRUCTURAL E IDE FULLY PLASTIC BAR 5, REINFORCING BARS SH	60 60 N40 AND THE CONCRETE CREASE THE COVER E 25mm. ELEMENT. CHAIRS. TIE WIRE HALL NOT BE USED BE USED TO TIE FORMS.	M15 M16 M17 M18	SMC UPP SMC UND BON WHE UNIT WAL ACH FOR WAL INITI THE MINI GEN BUT TYPP DET. MOV OBS WAL IN TI	DOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A DOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE. IDING SHALL BE STRETCHER BOND UNLESS NOTED OTHERWISE. EN CONSTRUCTING MASONRY WALLS ON SUSPENDED SLABS, ALL MASONRY IS SHALL BE STACKED NEAR THE FINAL LOCATION BEFORE BUILDING THE L. THE SUPPORTING ELEMENT MUST NOT BE PROPPED AND MUST HAVE IEVED ITS DESIGN STRENGTH. AREAS OF THE STRUCTURAL FLOOR SYSTEM WHICH SUPPORT MASONRY LS/ PARTITIONS OR OTHER SENSITIVE ATTACHMENTS AT THE TIME OF THE IAL DESIGN, THE FLOOR SYSTEM HAS BEEN DESIGNED FOR NOT LESS THAN REQUIREMENTS OF AS 3600 TABLE 2.4.2 " WHERE PROVISION IS MADE TO MISE THE EFFECT OF MOVEMENT". IERIC JOINT DETAILS ARE INDICATED ON THESE DRAWINGS FOR INFORMATION, IT IS THE ARCHITECT'S RESPONSIBILITY TO IDENTIFY JOINT LOCATIONS AND ES WHERE APPROPRIATE ON ARCHITECTURAL DRAWINGS, AND TO PROVIDE AILS OF NON-STANDARD ELEMENTS TO ACCOMMODATE ANTICIPATED /EMENTS. ERIVATION OF CONSTRUCTION OF NON-LOAD BEARING MASONRY LS/PARTITIONS AND OTHER NON-LOAD BEARING ELEMENTS IS NOT INCLUDED HE STRUCTURAL ENGINEER'S SCOPE OF WORKS.
MINIMUM           (1)           (2)           (3)           (4)           (i)           (ii)           (iii)	AL CONCRETE GRADE FOR EXPOSURE CL GRADE SHALL BE N IF THE ELEMENT IS BY 20mm. FOR PRESTRESSIN IN CORROSIVE SOII NOTES: COVER IS THE CLE. (INCLUDING FITMEN FOR ALL EXTERNAI SHALL NOT BE NAII TO KEEP FORMS AF PROVIDE AN APPRO CAST AGAINST THE	30 N40 ASSIFICATION B2 AI I40 MINIMUM. CAST ON A DAMP F G TENDONS THE MI LS AND WATER: N50 AR DISTANCE BETW NTS) AND THE FACE - SURFACES, PROVI LED TO THE FORMS PART AND A THROU DVED VAPOUR BARI 5 GROUND.	40 50 N40 DD 5mm TO THE COVER PROOF MEMBRANE, DEC INIMUM COVER SHALL B 0 VEEN ANY REINFORCING OF THE STRUCTURAL E IDE FULLY PLASTIC BAR 5, REINFORCING BARS SH IGH TIE SYSTEM SHALL E	60 60 N40 AND THE CONCRETE CREASE THE COVER E 25mm. ELEMENT. CHAIRS. TIE WIRE HALL NOT BE USED BE USED TO TIE FORMS. S AND THICKENING	M15 M16 M17	SMC UPP SMC UND BON WHE UNIT WAL ACH FOR WAL INITI THE MINI GEN BUT TYPI DET. MOV OBS WAL IN TI STA	DOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A DOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE. IDING SHALL BE STRETCHER BOND UNLESS NOTED OTHERWISE. EN CONSTRUCTING MASONRY WALLS ON SUSPENDED SLABS, ALL MASONRY IS SHALL BE STACKED NEAR THE FINAL LOCATION BEFORE BUILDING THE L. THE SUPPORTING ELEMENT MUST NOT BE PROPPED AND MUST HAVE IEVED ITS DESIGN STRENGTH. AREAS OF THE STRUCTURAL FLOOR SYSTEM WHICH SUPPORT MASONRY LS/ PARTITIONS OR OTHER SENSITIVE ATTACHMENTS AT THE TIME OF THE IAL DESIGN, THE FLOOR SYSTEM HAS BEEN DESIGNED FOR NOT LESS THAN REQUIREMENTS OF AS 3600 TABLE 2.4.2 " WHERE PROVISION IS MADE TO MISE THE EFFECT OF MOVEMENT". IERIC JOINT DETAILS ARE INDICATED ON THESE DRAWINGS FOR INFORMATION, IT IS THE ARCHITECT'S RESPONSIBILITY TO IDENTIFY JOINT LOCATIONS AND ES WHERE APPROPRIATE ON ARCHITECTURAL DRAWINGS, AND TO PROVIDE AILS OF NON-STANDARD ELEMENTS TO ACCOMMODATE ANTICIPATED /EMENTS. ERVATION OF CONSTRUCTION OF NON-LOAD BEARING MASONRY LS/PARTITIONS AND OTHER NON-LOAD BEARING ELEMENTS IS NOT INCLUDED
MINIMUM (1) (2) (3) (4) (i) (ii)	AL CONCRETE GRADE FOR EXPOSURE CL GRADE SHALL BE N IF THE ELEMENT IS BY 20mm. FOR PRESTRESSIN IN CORROSIVE SOII NOTES: COVER IS THE CLE. (INCLUDING FITMEN FOR ALL EXTERNAI SHALL NOT BE NAII TO KEEP FORMS AF PROVIDE AN APPRO CAST AGAINST THE THE COVERS SHAL SUPPORTING MESH	30 N40 ASSIFICATION B2 AI I40 MINIMUM. CAST ON A DAMP F G TENDONS THE MI LS AND WATER: N50 AR DISTANCE BETW NTS) AND THE FACE - SURFACES, PROVI LED TO THE FORMS PART AND A THROU OVED VAPOUR BARI E GROUND. L BE MAINTAINED U 1 SHALL BE AT 800 x	40 50 N40 DD 5mm TO THE COVER PROOF MEMBRANE, DEC INIMUM COVER SHALL B O VEEN ANY REINFORCING OF THE STRUCTURAL E IDE FULLY PLASTIC BAR GH TIE SYSTEM SHALL E RIER FOR SLABS, BEAMS ISING APPROVED BAR CI K 800mm MAXIMUM CENT	60 60 N40 AND THE CONCRETE CREASE THE COVER E 25mm. ELEMENT. CHAIRS. TIE WIRE HALL NOT BE USED BE USED TO TIE FORMS. S AND THICKENING HAIRS. BAR CHAIRS TRES. BAR CHAIRS	M15 M16 M17 M18	SMC UPP SMC UND BON WHE UNIT WAL ACH FOR WAL INITI THE MINI GEN BUT TYPI DET. MOV OBS WAL IN TI STAC STAC	DOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A DOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE. IDING SHALL BE STRETCHER BOND UNLESS NOTED OTHERWISE. EN CONSTRUCTING MASONRY WALLS ON SUSPENDED SLABS, ALL MASONRY IS SHALL BE STACKED NEAR THE FINAL LOCATION BEFORE BUILDING THE L.L. THE SUPPORTING ELEMENT MUST NOT BE PROPPED AND MUST HAVE IEVED ITS DESIGN STRENGTH. AREAS OF THE STRUCTURAL FLOOR SYSTEM WHICH SUPPORT MASONRY LS/ PARTITIONS OR OTHER SENSITIVE ATTACHMENTS AT THE TIME OF THE IAL DESIGN, THE FLOOR SYSTEM HAS BEEN DESIGNED FOR NOT LESS THAN REQUIREMENTS OF AS 3600 TABLE 2.4.2 " WHERE PROVISION IS MADE TO MISE THE EFFECT OF MOVEMENT". IERIC JOINT DETAILS ARE INDICATED ON THESE DRAWINGS FOR INFORMATION, IT IS THE ARCHITECT'S RESPONSIBILITY TO IDENTIFY JOINT LOCATIONS AND ES WHERE APPROPRIATE ON ARCHITECTURAL DRAWINGS, AND TO PROVIDE AILS OF NON-STANDARD ELEMENTS TO ACCOMMODATE ANTICIPATED //EMENTS. IERVATION OF CONSTRUCTION OF NON-LOAD BEARING MASONRY LS/PARTITIONS AND OTHER NON-LOAD BEARING ELEMENTS IS NOT INCLUDED HE STRUCTURAL ENGINEER'S SCOPE OF WORKS. CKING OF BLOCKWORK: IERALLY, ON SUSPENDED SLABS AND SLABS ON GROUND, BLOCKS SHALL BE CKED ONE PALLET HIGH (MAXIMUM PALLET MASS 1300kg) WITH 1200mm
MINIMUM           (1)           (2)           (3)           (4)           (i)           (ii)           (iii)	AL CONCRETE GRADE FOR EXPOSURE CL GRADE SHALL BE N IF THE ELEMENT IS BY 20mm. FOR PRESTRESSIN IN CORROSIVE SOI NOTES: COVER IS THE CLE. (INCLUDING FITMEN FOR ALL EXTERNAI SHALL NOT BE NAIL TO KEEP FORMS AF PROVIDE AN APPRO CAST AGAINST THE THE COVERS SHAL SUPPORTING MESH SUPPORTING BARS	30 N40 ASSIFICATION B2 AI I40 MINIMUM. CAST ON A DAMP F G TENDONS THE MI LS AND WATER: N50 ART DISTANCE BETW NTS) AND THE FACE - SURFACES, PROVI LED TO THE FORMS, PART AND A THROU OVED VAPOUR BARI E GROUND. L BE MAINTAINED U S SHALL BE AT 800 x S SHALL BE AT 60 BA	40 50 N40 DD 5mm TO THE COVER PROOF MEMBRANE, DEC INIMUM COVER SHALL B O VEEN ANY REINFORCING OF THE STRUCTURAL E IDE FULLY PLASTIC BAR IDE FULLY PLASTIC BAR IDE FULLY PLASTIC BAR IDE FULLY PLASTIC BAR IDE FOR SLABS, BEAM ISING APPROVED BAR C	60 60 N40 AND THE CONCRETE CREASE THE COVER E 25mm. CHAIRS. TIE WIRE HALL NOT BE USED BE USED TO TIE FORMS. S AND THICKENING HAIRS. BAR CHAIRS TRES. BAR CHAIRS TRES. BAR CHAIRS TRES. BAR CHAIRS MAXIMUM CENTRES	M15 M16 M17 M18	SMC UPP SMC UND BON WHE UNIT WAL ACH FOR WAL INITI THE MINI GEN BUT TYPI DET. MOV OBS WAL IN TI STAC GEN STAC	DOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A DOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE. IDING SHALL BE STRETCHER BOND UNLESS NOTED OTHERWISE. EN CONSTRUCTING MASONRY WALLS ON SUSPENDED SLABS, ALL MASONRY ITS SHALL BE STACKED NEAR THE FINAL LOCATION BEFORE BUILDING THE L.L. THE SUPPORTING ELEMENT MUST NOT BE PROPPED AND MUST HAVE IEVED ITS DESIGN STRENGTH. IEVED ITS DESIGN STRENGTH. ILS/ PARTITIONS OR OTHER SENSITIVE ATTACHMENTS AT THE TIME OF THE IAL DESIGN, THE FLOOR SYSTEM WHICH SUPPORT MASONRY ILS/ PARTITIONS OR OTHER SENSITIVE ATTACHMENTS AT THE TIME OF THE IAL DESIGN, THE FLOOR SYSTEM HAS BEEN DESIGNED FOR NOT LESS THAN REQUIREMENTS OF AS 3600 TABLE 2.4.2 " WHERE PROVISION IS MADE TO MISE THE EFFECT OF MOVEMENT". IERIC JOINT DETAILS ARE INDICATED ON THESE DRAWINGS FOR INFORMATION, IT IS THE ARCHITECT'S RESPONSIBILITY TO IDENTIFY JOINT LOCATIONS AND ES WHERE APPROPRIATE ON ARCHITECTURAL DRAWINGS, AND TO PROVIDE ALLS OF NON-STANDARD ELEMENTS TO ACCOMMODATE ANTICIPATED /EMENTS. IERVATION OF CONSTRUCTION OF NON-LOAD BEARING MASONRY LS/PARTITIONS AND OTHER NON-LOAD BEARING ELEMENTS IS NOT INCLUDED HE STRUCTURAL ENGINEER'S SCOPE OF WORKS. CKING OF BLOCKWORK: IERALLY, ON SUSPENDED SLABS AND SLABS ON GROUND, BLOCKS SHALL BE
MINIMUM           (1)           (2)           (3)           (4)           (i)           (ii)           (iii)	FOR EXPOSURE CL GRADE SHALL BE N IF THE ELEMENT IS BY 20mm. FOR PRESTRESSIN IN CORROSIVE SOII NOTES: COVER IS THE CLE. (INCLUDING FITMEN FOR ALL EXTERNAL SHALL NOT BE NAIL TO KEEP FORMS AF PROVIDE AN APPR CAST AGAINST THE THE COVERS SHAL SUPPORTING MESS SUPPORTING BARS WHICHEVER IS THE OF ALL CONSTRUC	30 N40 ASSIFICATION B2 AI I40 MINIMUM. CAST ON A DAMP F G TENDONS THE MI LS AND WATER: N50 AR DISTANCE BETW NTS) AND THE FACE - SURFACES, PROVI - SURFACES, PROV - S	40 50 N40 DD 5mm TO THE COVER PROOF MEMBRANE, DEC INIMUM COVER SHALL B O VEEN ANY REINFORCING G OF THE STRUCTURAL E IDE FULLY PLASTIC BAR S, REINFORCING BARS SH IGH TIE SYSTEM SHALL E RIER FOR SLABS, BEAMS ISING APPROVED BAR CI < 800mm MAXIMUM CENT AR DIAMETERS OR 1500 I IRS SHALL BE PROVIDED ENDS SHALL NOT BE US	60 60 N40 AND THE CONCRETE CREASE THE COVER E 25mm. CHAIRS. TIE WIRE HALL NOT BE USED BE USED TO TIE FORMS. S AND THICKENING HAIRS. BAR CHAIRS TRES. BAR CHAIRS	M15 M16 M17 M18 M19	SMC UPP SMC UND BON WHE UNIT WAL ACH FOR WAL INITI THE MINI GEN BUT TYPI DET, MOV OBS WAL IN TI STAI GEN STAI CLE, STAI	DOTH SURFACE OR A REINFORCED BOND BEAM. IN THE CASE OF BRICKS THE ER COURSE SHALL BE FROGS DOWN, OR HOLES FILLED WITH MORTAR TO A DOTH SURFACE. FOR NON-LOAD BEARING WALLS, LEAVE A 20mm GAP TO THE DERSIDE OF THE STRUCTURE. IDING SHALL BE STRETCHER BOND UNLESS NOTED OTHERWISE. EN CONSTRUCTING MASONRY WALLS ON SUSPENDED SLABS, ALL MASONRY IS SHALL BE STACKED NEAR THE FINAL LOCATION BEFORE BUILDING THE L. THE SUPPORTING ELEMENT MUST NOT BE PROPPED AND MUST HAVE IEVED ITS DESIGN STRENGTH. AREAS OF THE STRUCTURAL FLOOR SYSTEM WHICH SUPPORT MASONRY LS/ PARTITIONS OR OTHER SENSITIVE ATTACHMENTS AT THE TIME OF THE IAL DESIGN, THE FLOOR SYSTEM HAS BEEN DESIGNED FOR NOT LESS THAN REQUIREMENTS OF AS 3600 TABLE 2.4.2 " WHERE PROVISION IS MADE TO MISE THE EFFECT OF MOVEMENT". IERIC JOINT DETAILS ARE INDICATED ON THESE DRAWINGS FOR INFORMATION, IT IS THE ARCHITECT'S RESPONSIBILITY TO IDENTIFY JOINT LOCATIONS AND ES WHERE APPROPRIATE ON ARCHITECTURAL DRAWINGS, AND TO PROVIDE AILS OF NON-STANDARD ELEMENTS TO ACCOMMODATE ANTICIPATED //EMENTS. IERVATION OF CONSTRUCTION OF NON-LOAD BEARING MASONRY LS/PARTITIONS AND OTHER NON-LOAD BEARING ELEMENTS IS NOT INCLUDED HE STRUCTURAL ENGINEER'S SCOPE OF WORKS. CKING OF BLOCKWORK: IERALLY, ON SUSPENDED SLABS AND SLABS ON GROUND, BLOCKS SHALL BE CKED ONE PALLET HIGH (MAXIMUM PALLET MASS 1300kg) WITH 1200mm ARANCE BETWEEN ADJACENT PALLETS ON ALL SIDES. THE WEIGHT OF CKED BLOCKS SHALL NOT EXCEED THE DESIGN LIVE LOAD FOR THE FLOOR. ER PLANS FOR DESIGN LOADS.
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MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATION. ATTACHMENT OF FIXINGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.

WHERE AAC BLOCKWORK IS CONSTRUCTED ADJACENT TO PRECAST / CONCRETE BLOCKWORK OR CONCRETE SLABS THEY SHALL BE FIXED IN ACCORDANCE TO MANUFACTURERS RECOMMENDATIONS. THE MINIMUM REQUIREMENTS SHALL BE AS PER THE TYPICAL BLOCKWORK DETAILS WITH TIES AT 600mm MAX. CTRS INTERNALLY AND AT 400mm MAX. CTRS EXTERNALLY

## SECONDARY STEELWORK NOTES

- SECONDARY STEELWORK IS ALL STEELWORK THAT IS NOT REQUIRED TO SUPPORT THE MAIN BUILDING STRUCTURE. SECONDARY STEELWORK SHALL INCLUDE. BUT NOT BE LIMITED TO STEELWORK ASSOCIATED WITH; CEILING SYSTEMS, CLADDING SYSTEMS, INTERNAL PARTITIONS, DOOR AND GLAZING SYSTEMS, FURNITURE AND FIXTURES, EQUIPMENT SUPPORT SYSTEMS, SIGNAGE, HANDRAIL SYSTEMS, BARRIER SYSTEMS LIGHTING SYSTEMS, FALL ARREST / RESTRAINT SYSTEMS, ACCESS SYSTEMS AND PROPRIETARY PRODUCTS.
- SECONDARY STEELWORK IS NOT INCLUDED IN THE STRUCTURAL DOCUMENTATION SS2 IRRESPECTIVE OF WHETHER THE OTHER CONSULTANTS DOCUMENTATION MAKE REFERENCE TO THE STRUCTURAL DOCUMENTATION FOR THE SAME.
- THE CONTRACTOR SHALL REFER TO THE OTHER CONSULTANTS DOCUMENTATION FOR ALL SECONDARY STEELWORK REQUIREMENTS.
- THE CONTRACTOR SHALL ALLOW TO DESIGN, SUPPLY AND INSTALL ALL SECONDARY SS4 STEELWORK AS REQUIRED ON THE OTHER CONSULTANTS DOCUMENTATION.
- THE CONTRACTOR SHALL ALLOW PROVISION FOR THE COST OF ADDITIONAL ENGINEERING SERVICES SHOULD THEY REQUEST MEINHARDT TO ASSIST WITH THE DESIGN AND/OR DOCUMENTATION OF THE SECONDARY STEELWORK SS6 PLEASE REFER TO STANDARD STEEL CONNECTION DETAIL SHEETS FOR TYPICAL
- CONNECTION DETAILS. STEELWORK CONNECTION DETAILS ARE LIMITED TO MAJOR CONNECTIONS ONLY. FURTHTER DETAILING MAY BE REQUIRED DURING DEVELOPING FOR CONSTRUCTION DRAWINGS

METIN-MRDT

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SCHOOL INFRASTRUCTURE NSW

STRUCTURAL NOTES SHEET

# School Infrastructure NSW

SHRINKAGE STRAIN AT 56 DAYS SHALL BE SUBMITTED FOR REVIEW PRIOR

CONDUITS AND PIPES WHEN CAST IN SLABS OR WALLS ARE TO BE PLACED

WHERE DISTRIBUTION BARS TO MAIN REINFORCEMENT ARE NOT SHOWN ON

DRAWINGS PROVIDE MINIMUM N16 AT 400 CENTRES, LAPPED 500mm AT SPLICES.

WITH AS 3610. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR

STRIPPING AND BACKPROPPING OF SOFFITS SHALL NOT OCCUR UNTIL CONCRETE

HAS REACHED 75% OF SPECIFIED STRENGTH. BACK PROPPING (OR A SECOND SET

OF TABLE FORMS) IS TO EXTEND DOWN SO THAT EACH NEW FLOOR IS SUPPORTED

BY AT LEAST 3 FINISHED FLOORS OR AS CALCULATED. DO NOT STRIP BAYS

ADJACENT CONSTRUCTION JOINTS UNTIL THE ADJACENT BAYS ARE AT LEAST 3

DAYS OLD. CALCULATIONS ON THE BACKPROPPING REQUIREMENTS SHALL BE

CURING OF THE CONCRETE ELEMENTS SHALL BE STARTED AS SOON AS THE

CONCRETE HAS HARDENED AND SHALL COMPLY WITH THE SPECIFICATIONS.

INDICATED ON THE DRAWING. ENSURE THAT POLYSTYRENE IS PLACED AROUND

THEBEARING, SO THAT THE CONCRETE SURFACES ARE NOT IN CONTACT. SUBMIT

CONFIRMATION OF THE SPECIFICATIONS OF ALL BEARING MATERIALS TO THE

ARCHITECTURAL FINISH, INCLUDING SEALANT, FILLERS, EXPANSION MATERIALS

MINIMUM FORMWORK STRIPPING TIME FOR IN-SITU CONCRETE FORMWORK SHALL

COMPLY WITH AS3610.1:2018 APPENDIX C UNLESS SPECIFIED OTHERWISE IN THE

CONCRETE TESTING METHOD SHALL BE PREPARED IN ACCORDANCE WITH AS1379 AND

PROVIDE A 25mm x 25mm CHAMFER TO ALL CORBELS, UNLESS OTHERWISE

ENSURE ALL MOVEMENT JOINTS ARE INSTALLED WITH THE SPECIFIED

FORMWORK SHALL BE DESIGNED, CONSTRUCTED AND SUPPLIED IN ACCORDANCE

SHALL BE LESS THAN 5%.

ARE TO BE APPROVED BY THE ENGINEER.

CLASSES OF SURFACE FINISHES.

SUBMITTED FOR APPROVAL.

AND REBATES AS REQUIRED.

CONCRETE SPECIFICATION.

FNGINEER

DRAWINGS

C14

C15

C16

C18

C19

C20

C21

C22

TO POURING ANY CONCRETE. ALL CONCRETE IN CONTACT WITH AGGRESSIVE SOIL

BETWEEN THE TWO REINFORCEMENT LAYERS. WHERE THERE IS ONLY ONE LAYER

OF REINFORCEMENT, PROVIDE 50mm COVER TO CONDUIT. THE CONDUIT LOCATIONS

SHALL HAVE SULPHATE RESISTING CEMENT. THE C3A CONTENT OF THE CEMENT

F: +61 2 9319 7518 info@meinhardtgroup.com http://www.meinhardtgroup.com

### STEELWORK SHALL COMPLY TO AS 4100, AS/NZS 4600 AND AS/NZS 3828

THE FABRICATOR SHALL BE RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS, WHICH SHALL COMPLY WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS. FOR REVIEW BEFORE FABRICATION IS STARTED. REVIEW DOES NOT INCLUDE CHECKING OF DIMENSIONS. NOR TAKE RESPONSIBILITY FOR CONTRACTORS OBLIGATIONS. ALLOW 3 WORKING DAYS MINIMUM FOR REVIEW. WHERE CONNECTION FORCES (IN KILONEWTONS) ARE SHOWN ON THE DRAWINGS, CONNECTIONS SHALL BE PROVIDED TO TRANSMIT THESE FORCES. CONNECTIONS

SHALL PROVIDE FOR A MINIMUM FORCE OF 40kN. ALL DETAILS, GAUGE LINES, ETC. WHERE NOT SPECIFICALLY SHOWN SHALL BE IN ACCORDANCE WITH AISC DESIGN CAPACITY TABLES FOR STRUCTURAL STEEL AND AISC STANDARDIZED STRUCTURAL CONNECTIONS UNLESS OTHERWISE NOTED: WELDS TO BE 6mm CONTINUOUS FILLETS LAID DOWN

WITH APPROVED COVERED ELECTRODES. ALL WELDS SHALL BE CATEGORY SP UNLESS OTHERWISE NOTED. WELDS SHALL CONFORM TO AS/NZS 1554 AND ELECTRODES TO AS/NZS 1553. GUSSET PLATES TO BE 10mm THICK, BOILTS TO BE M20-8.8/S IN 22mm DIAMETER HOLES. PROVIDE A MINIMUM OF TWO BOLTS PER CONNECTION.

FABRICATOR SHALL PROVIDE ALL FIXINGS FOR ARCHITECTURAL ELEMENTS ETC. WITHOUT WEAKENING STRUCTURAL MEMBER IN ANY WAY. CAMBER SHALL BE PROVIDED TO ALL ROOF BEAMS, TRUSSES, AND PORTALS ETC. AT 5 PER 2000 OF SPAN UNLESS OTHERWISE NOTED, FOR ALL MEMBERS SPANNING IN EXCESS OF 6m. NO MEMBER SHALL BE ERECTED WITH NEGATIVE CAMBER, UNLESS SPECIFICALLY NOTED. FOR CONCRETE SLABS ON TOP OF STEELWORK DEPTH GAUGES SHALL BE USED TO VERIFY THE SLAB THICKNESS. ALL STEELWORK BELOW GROUND SHALL BE ENCASED BY CONCRETE WITH MIN. COVER OF 75mm. CONCRETE ENCASED STRUCTURAL STEEL TO BE WRAPPED WITH PRE-GALVANIZED G444HS MESH PLACED 25mm CLEAR OF STEEL. PROVIDE 50mm

MINIMUM COVER. ALL STEELWORK NOT TO BE ENCASED IN CONCRETE OR GALVANIZED SHALL BE GIVEN ONE SHOP COAT OF AN APPROVED PRIMER UNLESS OTHERWISE NOTED. FACES OF FRICTION GRIP CONNECTIONS SHALL NOT BE PAINTED. THE BOLTING PROCEDURE IS DESIGNATED AS FOLLOWS:

4.6/S REFERS TO COMMERCIAL BOLTS OF STRENGTH GRADE 4.6 TO AS/NZS 1111 TIGHTENED USING A STANDARD WRENCH TO A SNUG-TIGHT CONDITION. 8.8/S REFERS TO HIGH STRENGTH BOLTS OF STRENGTH GRADE 8.8 TO AS/NZS 1252 TIGHTENED USING A STANDARD WRENCH TO A SNUG-TIGHT CONDITION. 8.8/TF REFERS TO HIGH STRENGTH BOLTS OF STRENGTH GRADE 8.8 TO AS/NZS 1252 FULLY TENSIONED TO AS 1511, DESIGNED AS A FRICTION TYPE JOINT. 8 8/TB REFERS TO HIGH STRENGTH BOI TS OF STRENGTH GRADE 8 8 TO AS/NZS 1252 FULLY TENSIONED TO AS 1511, DESIGNED AS A BEARING TYPE JOINT. LOAD INDICATING WASHERS SHALL BE USED TO VERIFY TIGHTENING OF BOLTS IN TE AND TB CONNECTIONS, A HARDENED WASHER SHALL BE USED UNDER THE BOL HEAD OR NUT WHICHEVER IS ROTATED. FULLY TENSIONED BOLTS SHALL NOT BE RE-USED. WELDING OF CAPTIVE NUTS TO STEELWORK SHALL BE GRADE 4.6S, CLASS 5 NUTS. THE ELECTRODES USED SHALL BE COMPATIBLE WITH THE

CHEMISTRY OF THE STEEL INVOLVED (MEMBER OR CONNECTION COMPONENT AND NUT). ALL SUCH WELDS SHALL HAVE 100% VISUAL INSPECTION. GRADE 4.6S BOLTS TO BE USED. ALL BOLTS SHALL BE OF SUCH LENGTH THAT AT LEAST ONE FULL THREAD IS

EXPOSED BEYOND THE NUT AFTER THE NUT HAS BEEN TIGHTENED. MINIMUM ONE WASHER SHALL BE USED UNDER THE NUT IN ALL SITUATIONS. II TIGHTENING IS CARRIED OUT AT THE HEAD, AN ADDITIONAL WASHER SHALL BE USED UNDER THE HEAD. FOR SLOTTED HOLES, SHORTER THAN THE LESSER OF 1.33 TIMES THE BOLT DIAMETER OR (BOLT DIAMETER + 10mm) AND NOT WIDER THAN THE BOLT DIAMETER PLUS 2mm, USE HARDENED WASHER UNDER THE NUT AND BOLT HEAD. UNLESS NOTED OTHERWISE, ALL MATERIAL TO BE:

GRADE 250 HOT ROLLED PLATES, FLATS GRADE 300PLUS UB, UC, PFC, TFB AND ANGLES

GRADE 300 WB, WC; GRADE 350 RHS, CHS.

S10

S11

S12

S14

S16

S17

S18

S19

STRUCTURAL STEEL SHALL COMPLY WITH AS/NZS 1163, AS/NZS 3678, AS/NZS 3679.1 OR AS/NZS 3679.2. TEST CERTIFICATES RELATING TO THE STRUCTURAL STEEL SUPPLIED, SHALL BE MADE AVAILABLE TO THE SPECIFIER. ACCEPTABLE MANUFACTURERS OF STRUCTURAL STEEL MUST ALSO HOLD A VALID

CERTIFICATE OF APPROVAL. ISSUED BY THE AUSTRALIAN CERTIFICATION AUTHORITY FOR REINFORCING STEELS LTD (ACRS). MATERIALS CERTIFIED TO AN ALTERNATIVE SYSTEM SHALL NOT BE USED WITHOUT DEMONSTRATED EQUIVALENCE AND SUBSEQUENT WRITTEN APPROVAL FROM THE SPECIFIER. EVIDENCE OF COMPLIANCE WITH THIS CLAUSE MUST BE OBTAINED WHEN CONTRACT BIDS ARE RECEIVED. HOT DIPPED GALVANIZING SHALL BE IN ACCORDANCE WITH AS 4680 MINIMUM

COATING THICKNESS OF 85 MICRONS. PROVIDE MEMBERS TO BE GALVANIZED WITH VENT AND DRAINAGE HOLES IN ACCORDANCE TO THE GALVANISER'S RECOMMENDATIONS AND THE ACCEPTANCE OF THE ENGINEER. THE ENDS OF TUBULAR MEMBERS SHALL BE SEALED WITH NOMINAL THICKNESS

PLATES AND CONTINUOUS FILLET WELDED UNLESS NOTED OTHERWISE. WHERE MEMBERS SHOWN ON THE STRUCTURAL OR ARCHITECTURAL DRAWING ARE REQUIRED TO BE CURVED, BENT OR ROLLED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE METHODS REQUIRED TO ACHIEVE THE REQUIRED SHAPES WITHOUT LOCALIZED DISTORTION OF THE MEMBERS. THE CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE UNTIL PERMANENT

BRACING ELEMENTS ARE CONSTRUCTED, SUCH TEMPORARY BRACING AS IS NECESSARY TO STABILIZE THE STRUCTURE DURING ERECTION. REFER TO NOTES G4 AND G5. SUBMIT DETAILS OF THE MANUFACTURER, MATERIAL AND SECTION PROPERTIES

OF THE PURLINS AND GIRTS TO BE USED FOR APPROVAL. PURLIN AND GIRT BOLTS AND BRIDGING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S DETAILS UNLESS SHOWN OTHERWISE. TRIMMING MEMBERS FOR MECHANICAL/HYDRAULIC PENETRATIONS, DRAINAGE

GUTTERS, SUMPS ETC., ARE NOT NECESSARILY SHOWN. SUPPORT OF HEAVY PIPES AND DUCTS IS TO BE APPROVED BY THE ENGINEER. SERVICES SHALL BE HUNG FROM THE WEB OF PURLINS NOT FLANGES. THE DESIGN, SUPPLY AND INSTALLATION OF SECONDARY STEEL WORK REQUIRED

TO SUPPORT/CONNECT THE FACADE TO BASE STRUCTURE IS THE RESPONSIBILITY OF THE CONTRACTOR CERTIFICATION OF ARCHITECTURAL FIXINGS/BRACING OF CEILINGS AND NON-

STRUCTURAL WALLS TO THE BASE STRUCTURE IS THE RESPONSIBILITY OF THE CONTRACTOR. FORWARD TO THE ENGINEER A CERTIFICATE OF SUFFICIENCY BY THE SUPPLIER FOR THE ARCHITECTURAL FIXTURES/PANELS/DRY-WALL TO RESIST THE PRESSURES DESIGNATED IN THE DESIGN DOCUMENTS.

### DEFLECTION LIMITS APPLICABLE TO STEEL FRAMED ROOFS: PROPOSED DEFLECTION CRITERIA FOR STEEL FRAMED ROOFS

MAXIMUM DEFLECTION LIMITS LONG TERM DEAD + DEAD (G) IMPOSED TYPE WIND IMPOSED (G+ψLQ) NO CEILINGS WITH SPAN/360 SPAN/250 SPAN/150 SPAN/150 ROOF PITCH NO CEILINGS WITH SPAN/500 SPAN/250 SPAN/150 SPAN/150 ROOF PITCH LIGHTWEIGHT SPAN/360 SPAN/300 SPAN/250 SPAN/250 CEILINGS WITH 25 mm MAX. ROOF PITCH > LIGHTWEIGHT SPAN/500 SPAN/300 SPAN/250 SPAN/250 CEILINGS WITH ROOF PITCH < COMMERCIAL SPAN/500 SPAN/600 SPAN/600 SPAN/250 PLASTERBOARD 25 mm MAX. AND ACOUSTIC CEILINGS

STATUS

ENSURE PONDING DOES NOT OCCUR AND MINIMUM PITCH OF ROOF IS MAINTAINED FOR FALLS TO DRAINAGE OUTLETS

# DUNDAS PUBLIC SCHOOL

85 KISSING POINT ROAD, DUNDAS, NSW 2117

DESIGNED DRAWN APPROVED DATE SCALE @ A1 REVISION TG AA JB 23.09.24 1 : 100 P04 PROJECT No 132564 SCHEMATIC DESIGN DUPS-MHT-XX-XX-DR-S-0001

### POST TENSIONED CONCRETE BY PT CONTRACTOR ESIGNED AND CERTIFIED BY PT CONTRACTOR SHALL COMPLY TO AS3600 AND AS3610

- SCOPE OF WORKS: THE SCOPE OF WORKS SHALL CONSIST OF THE DESIGN, PTC1 INSTALLATION AND CERTIFICATION OF THE POST-TENSIONED PRESTRESSING AND THE NON-TENSIONED REINFORCEMENT, FOR THE FLOOR SLABS SHOWN, THE POST-TENSIONED PRESTRESSING AND THE NON-TENSIONED REINFORCEMENT SHALL EXTEND FOR THE FULL PLAN AREA, INCLUDING ALL STRUCTURAL HOBS, FOLDS, SETDOWNS FORMING PART OF THE FLOOR SLAB OTHER THAN HATCHED AREAS DENOTED AS DESIGNED BY MEINHARDT-BONACCI GROUP. IT IS THE SUB-CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE POST-TENSIONED PRESTRESSING AND THE NON-TENSIONED REINFORCEMENT IS DESIGNED, INSTALLED AND CERTIFIED IN ACCORDANCE WITH THESE NOTES AND THE REQUIREMENTS OF AS3600 AND AS1170. THE NON-TENSIONED REINFORCEMENT INCLUDES ANCHORAGE ZONE BURSTING/SPALLING REINFORCEMENT, THE REINFORCEMENT OF ANY SLAB AREAS NOT INCLUDED IN THE PRESTRESSED AREAS AND, ANY ADDITIONAL REINFORCEMENT USED TO COMPLIMENT THE PRESTRESS IN THE SLABS.
- PTC2 COLUMN STIFFNESS CONTRIBUTION OF THE COLUMNS IN THE FLOOR SLAB DESIGN SHALL BE BASED ON MAX. 20% EQUIVALENT COLUMN STIFFNESS. PTC3 APPROVAL:
- THE SUB-CONTRACTOR MUST SUBMIT ONE COPY OF THE TENDON AND REINFORCEMENT LAYOUT PLANS, FOR APPROVAL AT LEAST 3 WEEKS PRIOR TO THE COMMENCEMENT OF ANY INSTALLATION WORK. THESE PLANS MUST SHOW EACH TENDON LOCATION AND SIZE, THE DRAPE POINTS AND, ANY NON-TENSIONED REINFORCEMENT. NO INSTALLATION WORK MAY COMMENCE UNTIL THE APPROVED LAYOUT PLAN INCORPORATING ANY BUILDER'S REQUIREMENTS IS RETURNED TO THE SUB-CONTRACTOR. THIS APPROVAL PERIOD WILL NORMALLY TAKE 7 DAYS.
- DESIGN CERTIFICATION: A CPENG STRUCTURAL ENGINEER (WITH NER) SHALL CERTIFY PTC4 THE SLAB DESIGN. THE CERTIFICATION MUST STATE THAT THE SLAB IS STRUCTURALLY ADEQUATE TO RESIST THE DESIGN LOADS IN ACCORDANCE WITH ALL RELEVANT AUSTRALIAN STANDARDS. THE CERTIFYING ENGINEER SHALL MAINTAIN PROFESSIONAL INDEMNITY INSURANCE OF \$20 MILLION AND PROVIDE A COPY OF THEIR CERTIFICATE OF INSURANCE CURRENCY.
- CONSTRUCTION CERTIFICATION: A CPENG STRUCTURAL ENGINEER (WITH NER) SHALL PTC5 CERTIFY THAT THE PRESTRESSING AND REINFORCEMENT AS INSTALLED IN THE SLAB, COMPLIES WITH THE APPROVED CONSTRUCTION DESIGN PLAN AND, IN PARTICULAR, THAT ALL TENDONS AND REINFORCEMENT WAS ACCURATELY POSITIONED WITH THE CORRECT COVER AND THAT ALL TENDONS HAVE BEEN CORRECTLY STRESSED AND GROUTED. THE CERTIFYING ENGINEER SHALL MAINTAIN PROFESSIONAL INDEMNITY INSURANCE OF \$20 MILLION AND PROVIDE A COPY OF THEIR CERTIFICATE OF INSURANCE CURRENCY.

### PTC6 GENERAL DEFLECTION CRITERIA FOR ALL FLOORS.

MAXIMUM DEFLECTION LIMITS									
TYPE	DEAD (G)	INCREMENTAL	IMPOSED (ψsQ)	LONG TERM DEAD + IMPOSED (G+ψLQ)					
SUPPORTING NON- MASONRY PARTITIONS	SPAN/360 25 mm MAX.	-	L/500	SPAN/300 30 mm MAX.					
SUPPORTING MASONRY PARTITIONS	SPAN/360 25 mm MAX.	SPAN/1000 OR; SPAN/750 IF MASONRY ARTICULATED	L/500	SPAN/360 25 mm MAX.					
COMPACTUS AREAS	SPAN/360 25 mm MAX.	SPAN/750 10 mm MAX.	L/500	SPAN/360 25 mm MAX.					

- NOTES: INCREMENTAL DEFLECTION IS DEFINED AS LONG-TERM DEFLECTION MINUS SHORT-TERM DEFLECTION, AND OCCURS AFTER THE ADDITION OR ATTACHMENT OF THE FINISH, WALL OR PARTITION ELEMENTS LONG-TERM CREEP, WHEN PRESENT, NEEDS TO BE INCLUDED IN ASSESSING THE LONG-TERM DEFLECTION OF MEMBERS THAT ARE
- PRONE TO CREEP. PTC7 NATURAL FLOOR FREQUENCY : 4 HERTZ MINIMUM
- PTC8 COVER: ALL TENDONS AND REINFORCEMENT SHALL HAVE COVER SUFFICIENT TO ACHIEVE THE REQUIREMENTS FOR: EXPOSURE CLASSIFICATION
  - INTERIOR AREAS A1 - BALCONIES AND EXTERIOR AREAS - A2 FIRE RESISTANCE
- REFER TO BUILDING REGULATORY ADVICE FOR REQUIRED FIRE RESISTANCE LEVEL (FRL) OF DIFFERENT BUILDING ELEMENTS
- PTC9 MINIMUM PRESTRESS: EACH SLAB SHALL HAVE AN AVERAGE P/A > 1.4 MPa PODIUMS, COURTYARDS AND TERRACES FORMING ROOFS ARE TO BE DESIGNED TO BE WATERTIGHT AND WITH A MINIMUM P/A > 1.8 MPa.
- CONCRETE: PTC10 THE CONCRETE STRENGTH SHALL BE THE SAME AS THAT SHOWN ON GENERAL ARRANGEMENT PLANS, SHOULD A HIGHER STRENGTH BE, REQUIRED, THE SUB-CONTRACTOR MUST SEEK APPROVAL FROM THE ENGINEER PRIOR TO COMPLETION OF THE DESIGN. THE TRANSFER STRENGTH MUST BE NOTED ON THE SUB-CONTRACTOR'S PLAN. THE SLAB THICKNESS SHALL BE AS INDICATED ON THE PLAN AND SECTIONS.
- PTC11 CONSTRUCTION NOTES: ANCHORAGES SHALL NOT BE EXPOSED ON ANY EXTERIOR FACE OF THE BUILDING. ALL TENDONS AND REINFORCEMENT MUST BE SECURELY POSITIONED AND FIXED PRIOR TO CONCRETE PLACEMENT. STRESSING RECORDS OF THE PRESSURE GAUGE AND EXTENSIONS SHALL BE PTC12
- ACCURATELY MADE AND SUBMITTED TO THE ENGINEER FOR APPROVAL. ALL TENDONS MUST BE GROUTED IN THEIR DUCTS WITH PORTLAND CEMENT BASED GROUT, AFTER APPROVAL OF THE STRESSING RECORDS.
- PTC13 ALL ANCHORAGE RECESSES AND ANY PANS (USED TO ACCESS INTERNAL LIVE ANCHORAGES) MUST BE FILLED WITH 30 MPa GROUT, FINISHED TO A SMOOTH AND LEVEL SURFACE. THE CONTRACTOR IS TO ALLOW FOR THE DRILLING OF EDGE BOARDS TO ALLOW FOR THE FIXING OF ANCHORS.
- PTC14 WHERE SLAB THICKNESS EXCEEDS 270mm THE SUBCONTRACTOR SHALL ALLOW FOR SL72 MESH TOP AND HEAVY DUTY BAR CHAIRS.
- THE SUBCONTRACTOR IS RESPONSIBLE FOR DETAILING ALL POST-TENSIONED PTC15 SLABS/BEAMS TO RESIST THE EFFECTS OF ANY SHRINKAGE OR RESTRAINT THAT MAY OCCUR FROM SUBROUNDING WALLS, MULTIPLE LIFT CORES, GROUND WORKS, UNBALANCED P/A STRESSES ETC THAT MAY LEAD TO CONCRETE ELEMENTS BOTH HORIZONTALLY AND VERTICALLY CRACKING. SUBCONTRACTOR TO SUPPLY REINFORCEMENT WHERE REQUIRED AND CONSTRUCT SLAB USING APPROPRIATE

STAGING METHODS AND/OR DETAILING TO ACCOUNT FOR ABOVE EFFECTS.

STRUCTURAL	GREEN STAR	<b>SPECIFICATIONS</b>	(FC

ITEM / MATERIAL	
CONCRETE	- USE MATERIALS COMPLY - DO NOT USE BRECCIA OR - FLY ASH IS A MANUFACTU LIMITED TO A MAXIMUM OF - PORTLAND CEMENT CON ALL CONCRETE USED IN TH - THE MIX WATER FOR ALL WATER (MEASURED ACRO EITHER OF THE FOLLOWIN 1- AT LEAST 40% OF COARS ALTERNATIVE MATERIALS THE USE OF SUCH MATERIALS THE USE OF SUCH MATERIALS USE OF SUCH MATERIALS USE OF SUCH MATERIALS USE OF SUCH MATERIALS CUBIC METRE OF CONCRE
TIMBER	- EITHER NO NEW ENGINEE ENGINEERED WOOD PROD DESIGN & AS BUILT V1.3 TC - ALL ENGINEERED WOOD FORMALDEHYDE EMISSION - "NO RAINFOREST TIMBER PLANTATION GROWN. USE TIMBER FROM PLANTATION CERTIFIED. ALL TIMBER US TO THE APPROPRIATE HAZ - 95% (BY COST) OF ALL TIM - CERTIFIED BY A FOREST CERTIFICATION; OR IS FRO
STEEL	- 95% OF ALL STEEL IS SOL STRUCTURAL STEELWORK REINFORCING BAR AND ME
RISK	- ALL RISK ITEMS IDENTIFIE BY SPECIFIC DESIGN RESF DESIGN.

### DESIGN LOADS:

GROUND LEVEL.

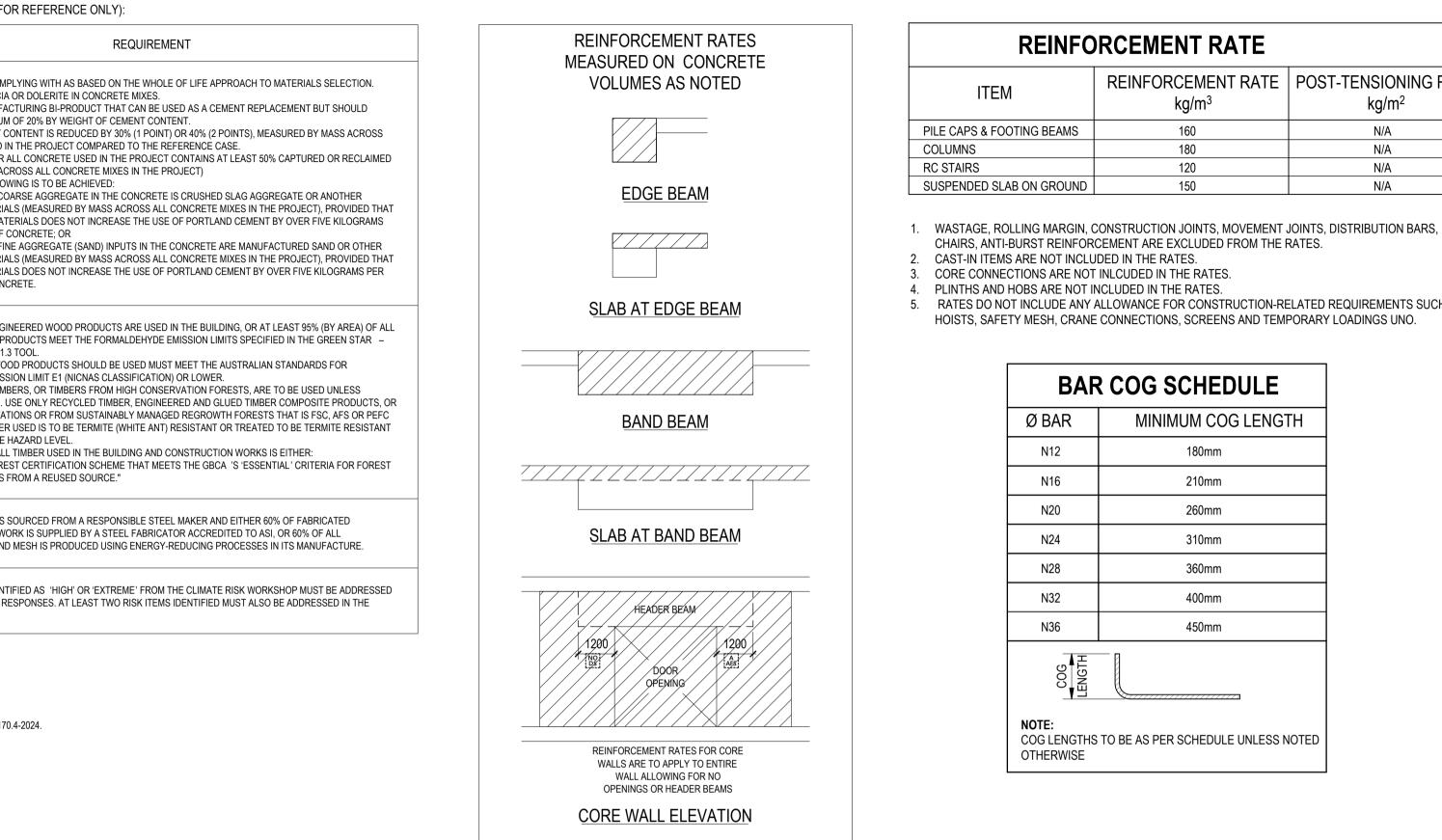
EARTHQUAKE PROJECT WILL BE DESIGNED IN ACCORDANCE WITH AS1170.4-2024. HAZARD FACTOR: Z = 0.08 LIFE SPAN: 50 YEARS SITE SUBSOIL: CLASS C E PROBABILITY OF EXCEEDANCE KP = 1.3 IMPORTANCE LEVEL; 3 WIND REGION: A2 DESIGN REGIONAL WIND SPEED : 46 m/s TC = 3 Mt = 1.0 Md = AS PER AS1170.2 Mz,cat = AS PER AS1170.2 NOTE: IT IS RECOMMENDED TO KEEP THE AREAS WITH LIVE LOADS BE

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT
SITE INSTRUCTIONS, SKETCHES, SHOP DRAWINGS, SUB-CONTRACTOR
DRAWINGS AND PROJECT CORRESPONDENCE.
ACCURACY AND SET-OUT IS TO BE CONFIRMED BY SITE SURVEY.

REV	DESCRIPTION	BY	APP	DATE						PROJECT NORTH
P01	CONCEPT DESIGN DEVELOPMENT	RM	JB	12.11.24						
P02	75% SCHEMATIC DESIGN	RM	JB	22.11.24						
P03	95% SCHEMATIC DESIGN	RM	JB	13.12.24						
P04	100% SCHEMATIC DESIGN	RM	JB	19.12.24						
					0	1000	2000	4000	6000	
							SCALE (mi	n) 1:100		

NSV

# **STRUCTURAL NOTES**

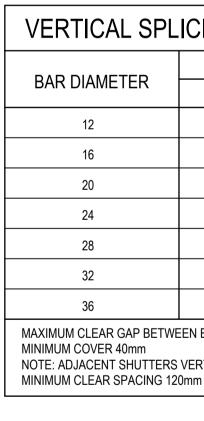


EYOND	7.5	KPA	IN

SPLICE LENGTHS of TENSION BARS in SLABS and BEAMS (mm)         Less than 300mm of concrete below bar or vertical bar       More than 300mm of concrete below bar         CONCRETE GRADE       CONCRETE GRADE         Bar Size       N32       >= N40         SLAB       BEAM       SLAB       BEAM	ANCHORAGE / SPLICE LENGTH TABLE										
below bar or vertical bar     below bar       CONCRETE GRADE     CONCRETE GRADE       Bar Size     N32     >= N40	SPL	ICE LEN	IGTHS of	TENSIC	ON BARS	in SLAE	S and Bl	EAMS (m	וm)		
Bar Size         N32         >= N40         N32         >= N40											
			CONCRE	TE GRADE			CONCRE	TE GRADE			
SLAB BEAM SLAB BEAM SLAB BFAM SLAB BFA	Bar Size	N	32	>=	N40	N	32	>= N40			
		SLAB	BEAM	SLAB	BEAM	SLAB	BEAM	SLAB	BEAM		
N10 400 400 400 400 500 450 500 400	N10	400	400	400	400	500	450	500	400		
N12 500 500 500 500 650 550 600 500	N12	500	500	500	500	650	550	600	500		
N16 750 650 700 650 1000 850 900 750	N16	750	650	700	650	1000	850	900	750		
N20 1000 900 900 800 1300 1150 1150 105	N20	1000	900	900	800	1300	1150	1150	1050		
N24 1250 1150 1100 1050 1600 1500 1450 135	N24	1250	1150	1100	1050	1600	1500	1450	1350		
N28 1500 1450 1350 1300 2000 1900 1750 170	N28	1500	1450	1350	1300	2000	1900	1750	1700		
N32 1800 1750 1600 1600 2300 2300 2050 205	N32	1800	1750	1600	1600	2300	2300	2050	2050		
N36 2100 2100 1900 1900 2700 2700 2400 240	N36	2100	2100	1900	1900	2700	2700	2400	2400		
Approximate Splice Rule55 db50 db75 db65 db		55	5 db	50	) db	75	i db	65	i db		
Approximate Anchorage Rule45 db40 db60 db55 db		45	5 db	40	) db	60	) db	55 db			

These lengths apply for all bars in beams and slabs.

- The minimum cover to the bar under consideration is to be the greate 2. 35mm for beams, or the bar diameter.
  - The clear spacing between spliced bars must be less than one bar diameter. For N25 concrete, multiply the lengths of N32 concrete by 1.15
- Unless shown on the drawings the splice locations must be approved by the engineer. 5
- 6. For Anchorage lengths of bars, multiply the Splice lengths by 0.8
- db denotes bar diameter . 7. The minimum clear spacing of bars to be 120mm. 8



HORIZONTAL SPLICE LENGTHS IN WALLS (mm)									
	CONCRETE GRADE								
BAR DIAMETER	N32	N40	N50	N65-N100					
12	650	600	550	500					
16	1000	900	800	700					
20	1300	1150	1050	900					
MAXIMUM CLEAR GAP BETWEEN BARS ONE BAR DIAMETER. MINIMUM COVER 20mm NOTE: FOR WALLS EXPOSED TO WEATHER REFER GENERAL NOTES. MINIMUM CLEAR SPACING 120mm									



School Infrastructure NSW



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SCHOOL INFRASTRUCTURE NSW

TITLE STRUCTURAL NOTES SHEET 2

U	05 00	
db	55 db	BAR
ter of 20mn	n for slabs,	

CEMENT RATE kg/m <sup>3</sup>	POST-TENSIONING RATE kg/m <sup>2</sup>
160	N/A
180	N/A
120	N/A
150	N/A

5. RATES DO NOT INCLUDE ANY ALLOWANCE FOR CONSTRUCTION-RELATED REQUIREMENTS SUCH AS

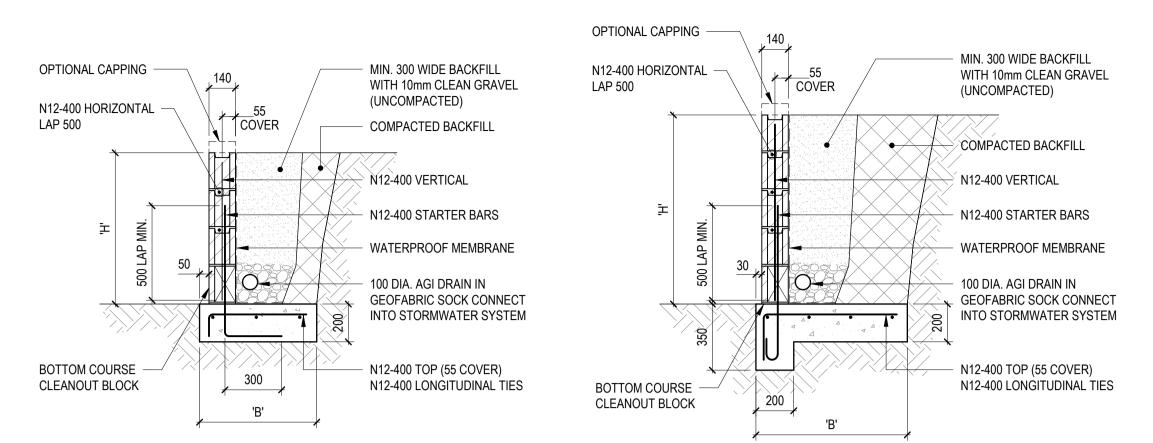
CHEDULE
IUM COG LENGTH
180mm
210mm
260mm
310mm
360mm
400mm

450mm

ICE LENGTHS IN WALLS (mm)								
CONCRETE GRADE								
N32 N40 N50 N65-N100								
500	500	500	500					
650	650	650	650					
850	800	800	800					
1100	1000	1000	1000					
1400 1250 1150 1150								
1700 1550 1400 1300								
2050 1850 1650 1450								
EN BARS ONE BAR DIAMETER.								

NOTE: ADJACENT SHUTTERS VERTICAL BARS MAY BE PLACED IN OUTER LAYER

			PR	ELIN	/INA	RY			
DUNDAS PUBLIC SCHOOL									
85 KISSING POINT ROAD, DUNDAS, NSW 2117									
STATUS	DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	REVISION			
	TG	AA	JB	23.09.24	As	P04			
SCHEMATIC DESIGN	PROJECT No	132564			indicated	104			
		S-MH1	Г-ХХ-Х	XX-DF	R-S-00	02			

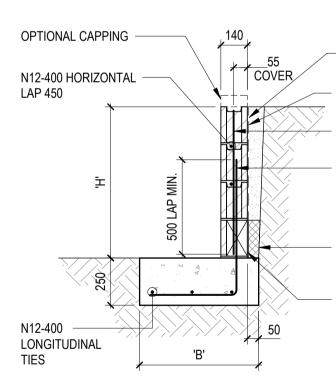


# RETAINING WALL - 1.0m HIGH MAX. (ALTERATION) RETAINING WALL - 1.2m HIGH MAX. (ALTERATION)

WALLS TO BE CONSTRUCTED USING 140 'H' BLOCKS SCALE 1:20 ALL BLOCKWORK TO BE CONCRETE CORE FILLED AS PER NOTES

BASE DIMENSIONS						
'H' (HEIGHT mm)	'B' (BASE mm)					
600	600					

- WALLS TO BE CONSTRUCTED USING 140 'H' BLOCKS SCALE 1:20
- ALL BLOCKWORK TO BE CONCRETE CORE FILLED AS PER NOTES BASE DIMENSIONS 'H' (HEIGHT mm) NO SURCHARGE 5 kPa SURCHARGE 'B' (BASE mm) 'B' (BASE mm) 800 600 800 1000 700 1000 1200 800 1000



**RETAINING WALL - 1.0m HIGH MAX. (RW1)** 

BASE DIMENSIONS

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT

SITE INSTRUCTIONS, SKETCHES, SHOP DRAWINGS, SUB-CONTRACTOR

ACCURACY AND SET-OUT IS TO BE CONFIRMED BY SITE SURVEY.

'B' (BASE mm)

600

WALLS TO BE CONSTRUCTED USING 140 'H' BLOCKS

BLOCKWORK RETAINING WALL NOTES

'H' (HEIGHT mm)

600

DRAWINGS AND PROJECT CORRESPONDENCE.

ALL BLOCKWORK TO BE CONCRETE CORE FILLED AS PER

ALTERNATIVELY, AFS OR PRECAST WALL SYSTEM CAN BE ADOPTED WATERPROOF

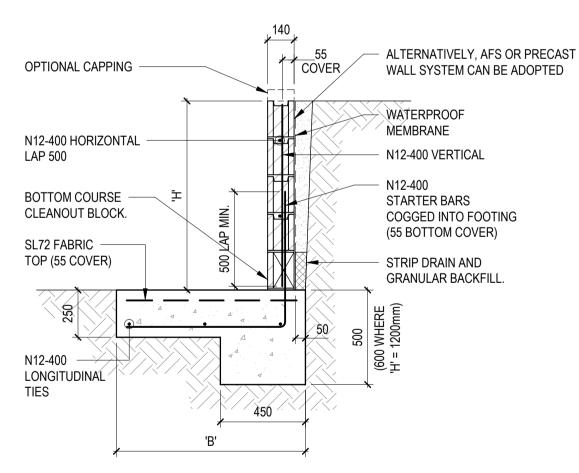
MEMBRANE N12-400 VERTICAL

N12-400 STARTER BARS COGGED INTO FOOTING (55 BOTTOM COVER)

STRIP DRAIN AND GRANULAR BACKFILL.

BOTTOM COURSE CLEANOUT BLOCK.

SCALE 1:20

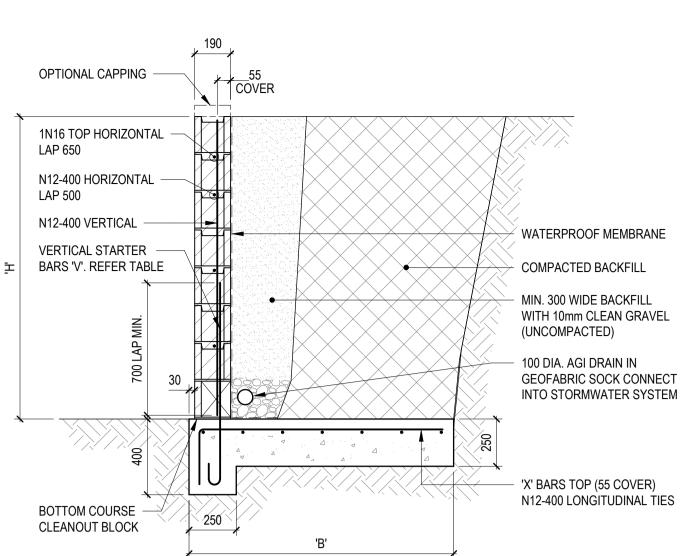


# **RETAINING WALL - 1.2m HIGH MAX. (RW2)**

WALLS TO BE CONSTRUCTED USING 140 'H' BLOCKS ALL BLOCKWORK TO BE CONCRETE CORE FILLED AS PER BLOCKWORK RETAINING WALL NOTES

BASE DIMENSIONS								
NO SURCHARGE 'B' (BASE mm)	5 kPa SURCHARGE 'B' (BASE mm)							
800	800							
800	1000							
1000	1200							
	NO SURCHARGE 'B' (BASE mm) 800 800							

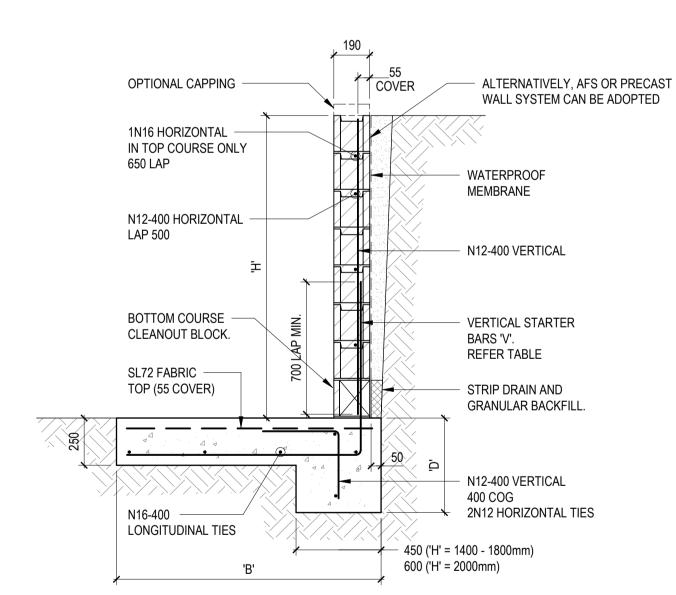
V	DESCRIPTION	BY	APP	DATE							PROJECT NORTH	
1	CONCEPT DESIGN DEVELOPMENT	AA	JB	12.11.24								
2	75% SCHEMATIC DESIGN	RM	JB	22.11.24								
3	95% SCHEMATIC DESIGN	RM	JB	13.12.24								
4	100% SCHEMATIC DESIGN	RM	JB	19.12.24								
					0	100	0 2	2000	4000	6000		
							5	SCALE (mm)	1:100			
												GOVER



# **RETAINING WALL - 2.0m HIGH MAX. (ALTERATION)**

WALLS TO BE CONSTRUCTED USING 190 'H' BLOCKS SCALE 1:20 ALL BLOCKWORK TO BE CONCRETE CORE FILLED AS PER NOTES

BASE DIMENSIONS									
'H' (HEIGHT mm)	NO SURCHARGE 'B' (BASE mm)	5 kPa SURCHARGE 'B' (BASE mm)	REINFORCEMENT 'V' AND 'X' BARS						
1400	1300	1700	N12-400						
1600	1400	2000	N16-400						
1800	1600	2200	N16-400						
2000	1700	2500	N16-400						



# **RETAINING WALL - 2.0m HIGH MAX. (RW3)**

WALLS TO BE CONSTRUCTED USING 190 'H' BLOCKS SCALE 1:20 ALL BLOCKWORK TO BE CONCRETE CORE FILLED AS PER BLOCKWORK RETAINING WALL NOTES

BASE DIMENSIONS										
'H' (HEIGHT mm)	NO SUR	CHARGE	REINFORCEMENT							
	'B' (mm)	'D' (mm)	'B' (mm)	'D' (mm)	'V' BARS					
1400	1200	500	1400	600	N16-400					
1600	1400	600	1600	700	N16-400					
1800	1600	700	1800	800	N16-400					
2000	1800	700	2000	800	N16-200					

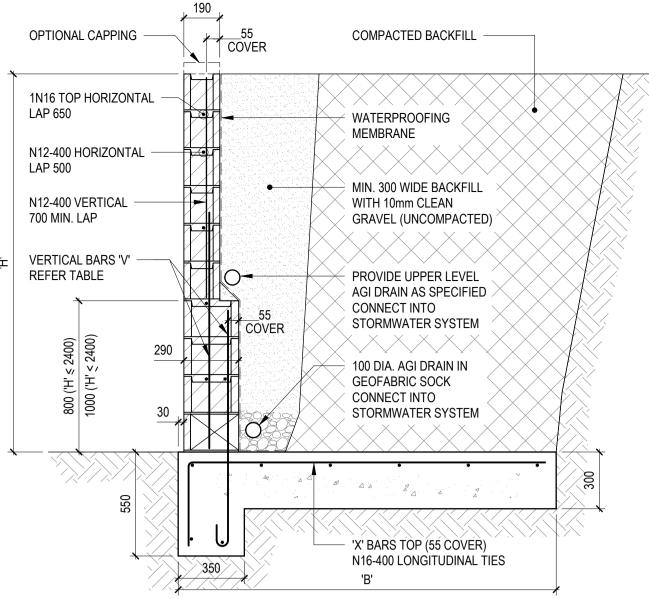
School Infrastructure NSW



SCALE 1:20

# MEIN-ARDT

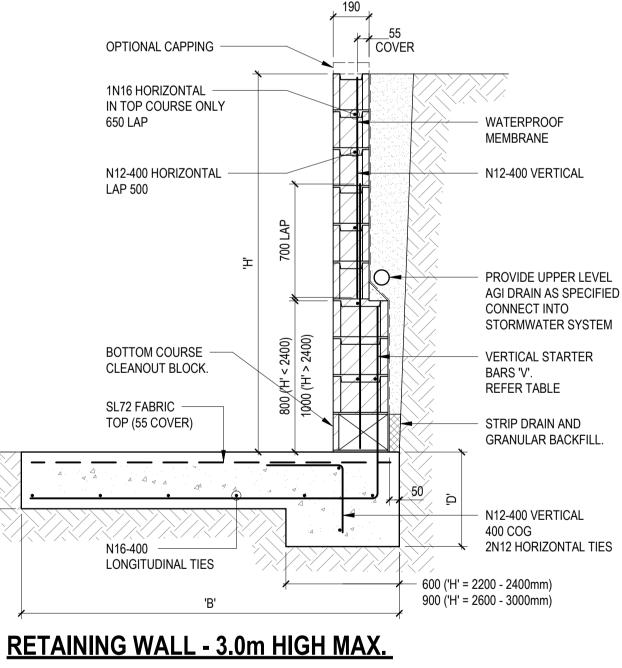
Meinhardt (NSW) Pty Ltd A.C.N. 051 627 591 Level 4, 66 Clarence Street Sydney NSW 2000 Australia T: +61 2 9299 3088 F: +61 2 9319 7518 info@meinhardtgroup.com http://www.meinhardtgroup.com © Copyright



# **RETAINING WALL - 3.0m HIGH MAX. (ALTERATION)**

WALLS TO BE CONSTRUCTED USING 190 + 240 'H' BLOCKS SCALE 1:20 ALL BLOCKWORK TO BE CONCRETE CORE FILLED AS PER NOTES

BASE DIMENSIONS									
'H' (HEIGHT mm)	NO SURCHARGE 'B' (BASE mm)	5 kPa SURCHARGE 'B' (BASE mm)	REINFORCEMENT 'V' AND 'X' BARS						
2200	2200 1900		N16-400						
2400	2000	3100	N16-400						
2600	2200	3300	N20-400						
2800	2400	3600	N20-400						
3000	2600	3900	N16-200						



WALLS TO BE CONSTRUCTED USING 190 + 240 'H' BLOCKS ALL BLOCKWORK TO BE CONCRETE CORE FILLED AS PER BLOCKWORK RETAINING WALL NOTES

BASE DIMENSIONS								
'H' (HEIGHT mm)	NO SUR	CHARGE	5 kPa SUF	RCHARGE	REINFORCEMENT			
	'B' (mm)	'D' (mm)	'B' (mm)	'D' (mm)	'V' BARS			
2200	2200	800	2200	900	N16-400			
2400	2200	900	2400	1000	N16-400			
2600	2400	900	2600	1000	N20-400			
2800	2600	900	2800	1100	N20-400			
3000	2800	1000	3000	1200	N16-200			

SCHOOL INFRASTRUCTURE NSW

STANDARD DETAILS MASONRY RETAINING WALLS

TITI F

## SCALE 1:20

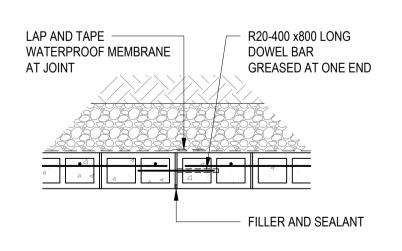
## **BLOCK RETAINING WALL NOTES**

- ALL BLOCK/CAVITY CORES TO BE CONCRETE FILLED. CONCRETE F'c = 20 MPa. 10mm MAX. AGGREGATE SIZE, 250mm SLUMP
- FOOTING CONCRETE GRADE N25 U.N.O.
- COVER TO FOOTING REINFORCEMENT = 55mm U.N.O. FOOTING DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 100kPa. ALL FOOTINGS TO BE FOUNDED IN FIRM NATURAL GROUND AND CONFIRMED ON SITE BY THE GEOTECHNICAL ENGINEER
- RETAINING WALLS TO HAVE NO SURCHARGE, UNLESS NOTED IN TABLE PROVIDE VERTICAL CONTROL JOINTS AT 6000 CTS. MAX.
- PROVIDE N12 CORNER BARS AT 600 CTS. LAP 600 EACH WAY FOR WALL RETURNS BLOCKS F'uc = 15 MPa
- MORTAR CEMENT 1 : LIME 0.5 : SAND 4.5 BUILDER IS TO MAINTAIN STABILITY OF WALL DURING
- 7 BACKFILLING PROCEDURE INTERNAL WALL TO HABITABLE AREAS TO BE TANKED 8.
- TO PREVENT MOISTURE PENETRATION. REFER TANKING SUPPLIERS FOR DETAILS IF OTHER RETAINING WALLS EXIST OR ARE TO BE 9. CONSTRUCTED ADJACENT TO OR EITHER ABOVE OR BELOW THE RETAINING WALLS DETAILED, THEN THE ENGINEER SHOULD BE CONTACTED IMMEDIATELY FOR REVISED DESIGN.
- IF OTHER RETAINING WALLS EXIST OR ARE TO BE 10. CONSTRUCTED ADJACENT TO OR EITHER ABOVE OR BELOW THE RETAINING WALLS DETAILED, THEN THE CONTRACTOR TO ENSURE STABILITY OF THE EXISTING RETAINING STRUCTURE.

## BLOCK RETAINING WALL NOTES

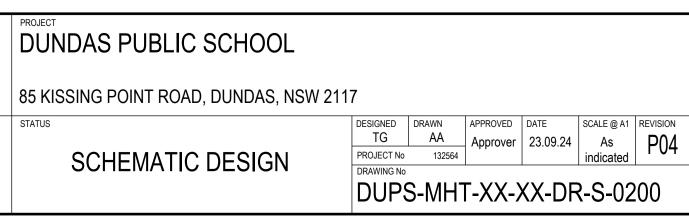
- THIS RETAINING WALL HAS BEEN DESIGNED USING TYPICAL SITE PARAMETERS. FINAL CONFIRMATION OF THE ADEQUACY OF THE DESIGN MUST BE VERIFIED FOLLOWING RECEIPT OF A SITE SPECIFIC GEOTECHNICAL INVESTIGATION REPORT. 2.
- STIFF CLAY SITES WITH SHALE OR STONE INCLUSIONS ARE NOT COVERED IN THIS DESIGN ALL BLOCK/CAVITY CORES TO BE CONCRETE FILLED. CONCRETE F'c = 20 MPa. 10mm MAX. AGGREGATE
- SIZE, 250mm SLUMP
- FOOTING CONCRETE GRADE N25 U.N.O.
- COVER TO FOOTING REINFORCEMENT = 55mm U.N.O. FOOTING DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 100kPa. ALL FOOTINGS TO BE FOUNDED IN FIRM NATURAL GROUND AND CONFIRMED ON SITE BY THE GEOTECHNICAL ENGINEER.
- RETAINING WALLS TO HAVE NO SURCHARGE, UNLESS NOTED IN TABLE PROVIDE VERTICAL CONTROL JOINTS AT 6000 CTS. MAX.
- PROVIDE N12 CORNER BARS AT 600 CTS. LAP 600 EACH 8 WAY FOR WALL RETURNS
- BLOCKS F'uc = 15 MPa MORTAR CEMENT 1 : LIME 0.5 : SAND 4.5
- BUILDER IS TO MAINTAIN STABILITY OF WALL DURING BACKFILLING PROCEDURE
- INTERNAL WALL TO HABITABLE AREAS TO BE TANKED 10. TO PREVENT MOISTURE PENETRATION, REFER TANKING SUPPLIERS FOR DETAILS
- IF OTHER RETAINING WALLS EXIST OR ARE TO BE 11. CONSTRUCTED ADJACENT TO OR EITHER ABOVE OR BELOW THE RETAINING WALLS DETAILED, THEN THE ENGINEER SHOULD BE CONTACTED IMMEDIATELY FOR REVISED DESIGN.
- 12. IF OTHER RETAINING WALLS EXIST OR ARE TO BE CONSTRUCTED ADJACENT TO OR EITHER ABOVE OR BELOW THE RETAINING WALLS DETAILED, THEN THE CONTRACTOR TO ENSURE STABILITY OF THE EXISTING RETAINING STRUCTURE.

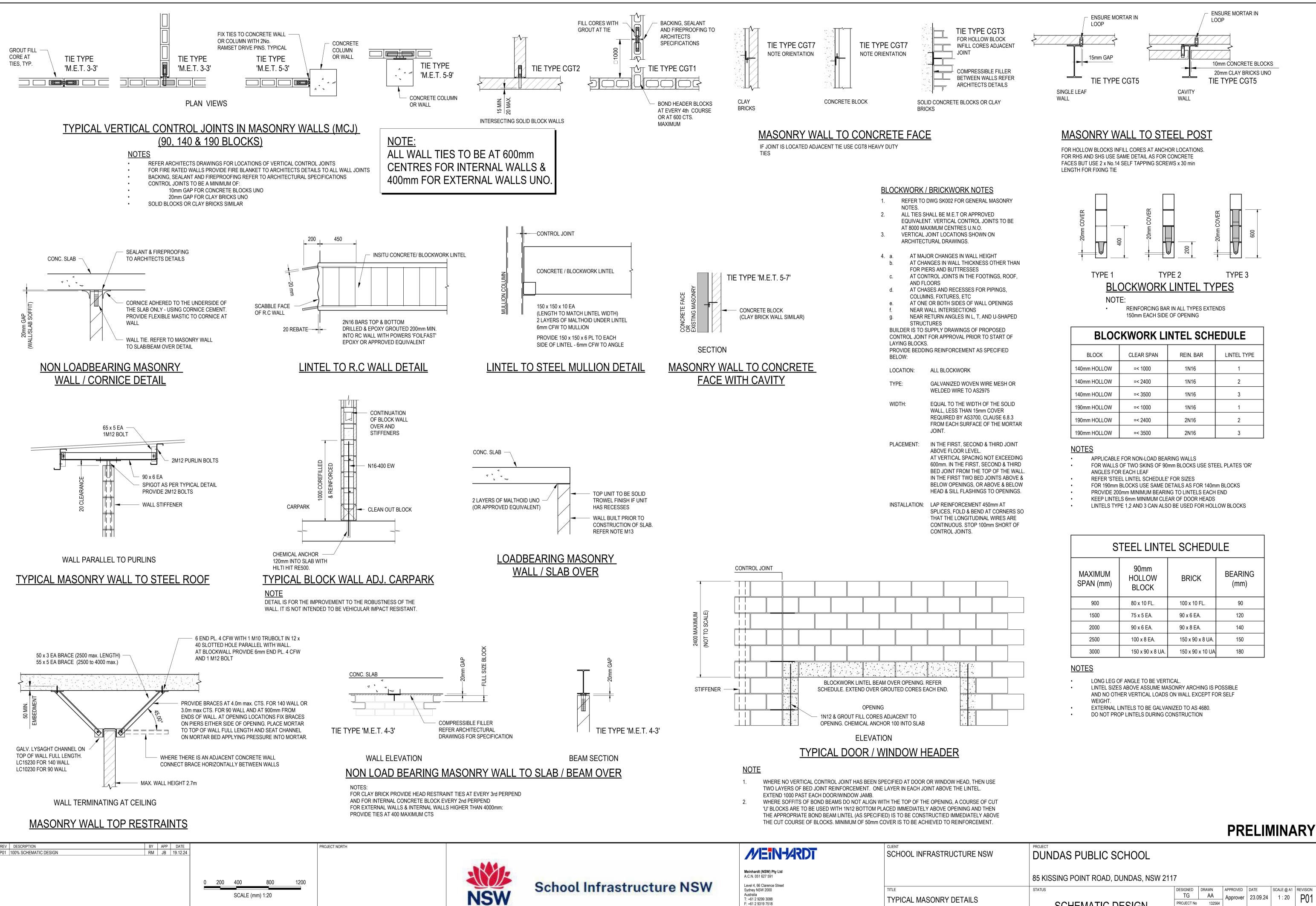
# **USE THE ABOVE NOTES IF** NO SOIL TEST AVAILABLE



# **RETAINING WALL JOINT DETAIL**

SCALE 1:20 JOINTS AT 6m MAX CTS.





SCALE (mm) 1:20

GOVERNMEN'

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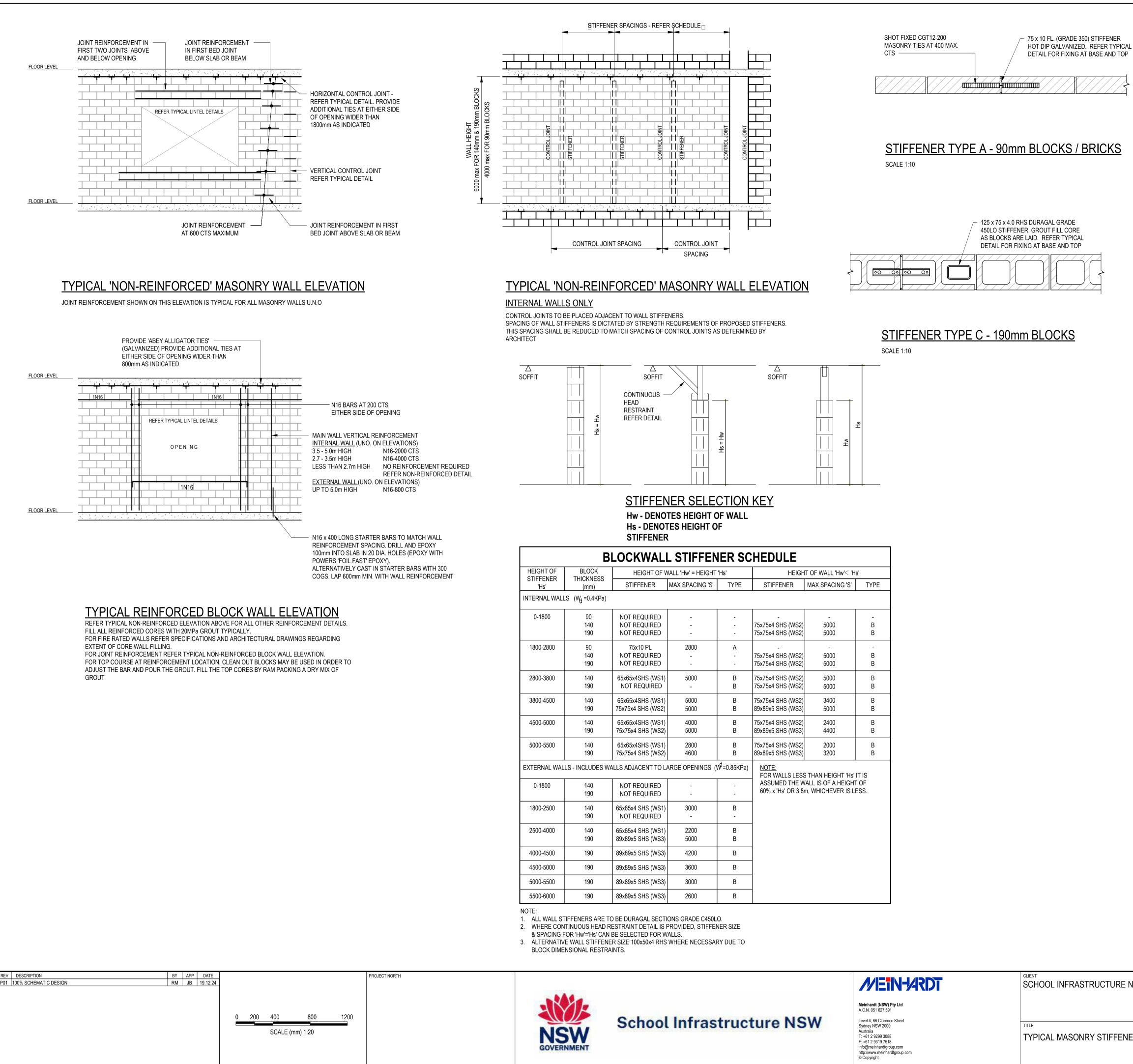
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info@meinhardtgroup.com http://www.meinhardtgroup.com TYPICAL MASONRY DETAILS

MAXIMUM SPAN (mm)	90mm HOLLOW BLOCK	HOLLOW BRICK	
900	80 x 10 FL.	100 x 10 FL.	90
1500	75 x 5 EA.	90 x 6 EA.	120
2000	90 x 6 EA.	90 x 8 EA.	140
2500	100 x 8 EA.	150 x 90 x 8 UA.	150
3000	150 x 90 x 8 UA.	150 x 90 x 10 UA	180

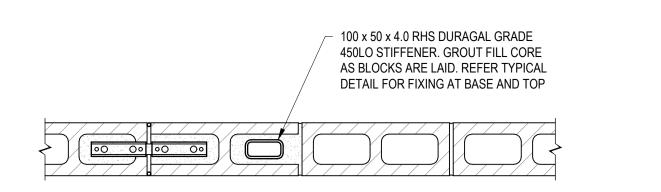
			PR	ELIN	/IIN/	<b>NK Y</b>		
PROJECT DUNDAS PUBLIC SCHOOL 85 KISSING POINT ROAD, DUNDAS, NSW 2117								
85 KISSING POINT ROAD, DUNDAS, NSW 211	/							
 STATUS	DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	REVISION		
	TG	AA	Approver	23.09.24	1:20	D∩1		
SCHEMATIC DESIGN	PROJECT No	132564						
SCHEWATIC DESIGN	DRAWING No							
	DUPS	S-MH	Г-ХХ->	XX-DF	R-S-02	205		



BLOCK THICKNESS	HEIGHT OF V	VALL 'Hw' = HEIGHT	'Hs'	HEIGHT OF WALL 'Hw'< 'Hs'			
(mm)	STIFFENER	MAX SPACING 'S'	TYPE	STIFFENER	MAX SPACING 'S'	TYPE	
_S (W <sub>d</sub> =0.4KPa)							
90 140	NOT REQUIRED	-	-	- 75x75x4 SHS (WS2)	- 5000	- B	
190	NOT REQUIRED	-	-	75x75x4 SHS (WS2)		B	
90 140 190	75x10 PL NOT REQUIRED NOT REQUIRED	2800 - -	A - -	- 75x75x4 SHS (WS2) 75x75x4 SHS (WS2)		- B B	
140 190	65x65x4SHS (WS1) NOT REQUIRED	5000 -	B B	75x75x4 SHS (WS2) 75x75x4 SHS (WS2)		B B	
140 190	65x65x4SHS (WS1) 75x75x4 SHS (WS2)	5000 5000	B B	75x75x4 SHS (WS2) 89x89x5 SHS (WS3)		B B	
140 190	65x65x4SHS (WS1) 75x75x4 SHS (WS2)		B B	75x75x4 SHS (WS2) 89x89x5 SHS (WS3)		B B	
140 190	65x65x4SHS (WS1) 75x75x4 SHS (WS2)		B B	75x75x4 SHS (WS2) 89x89x5 SHS (WS3)		B B	
S - INCLUDES WALLS ADJACENT TO LARGE OPENINGS (W <sup>d</sup> =0.85KPa) <u>NOTE:</u>							

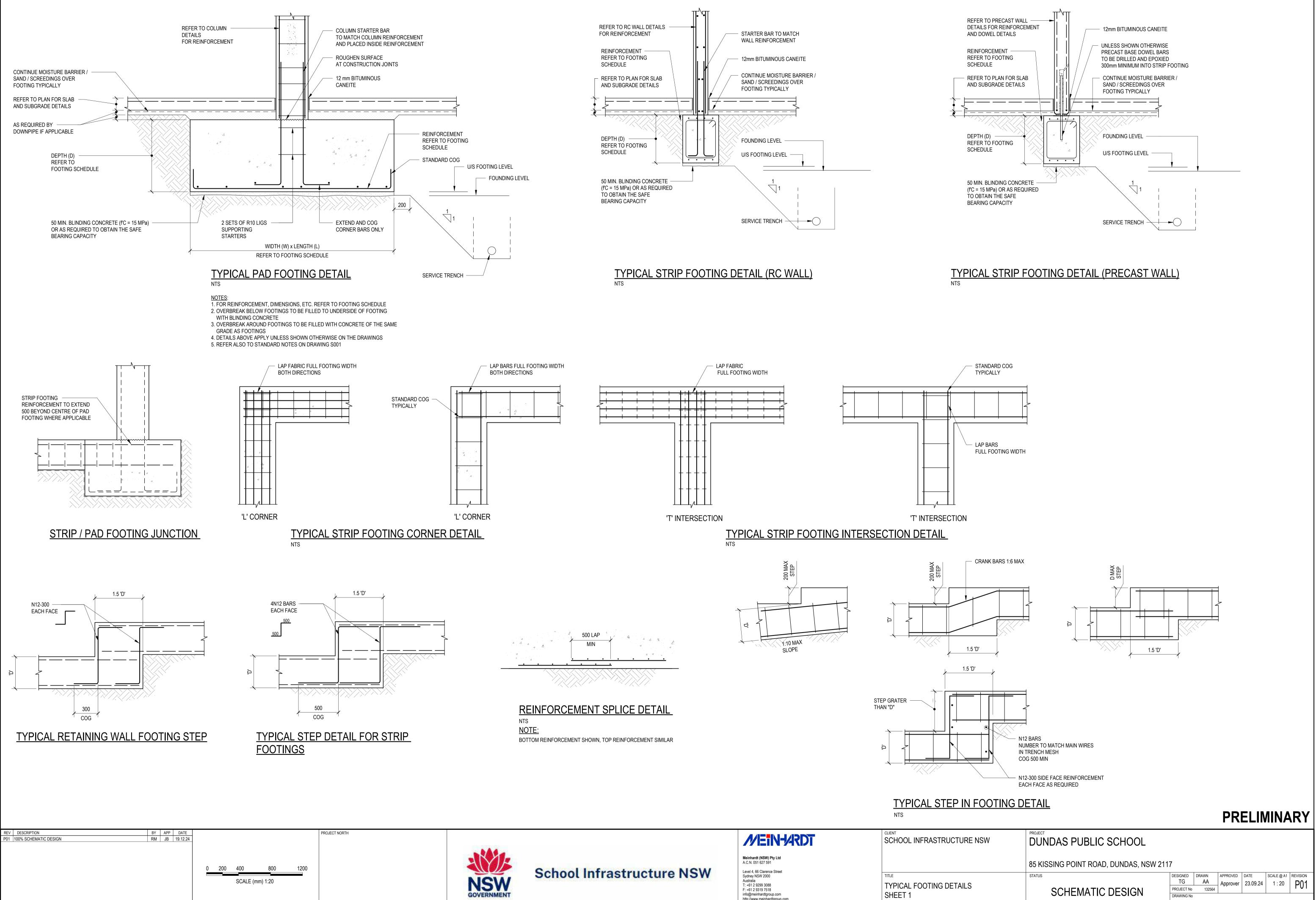
SCHOOL INFRASTRUCTURE NSW

**TYPICAL MASONRY STIFFENERS DETA** 

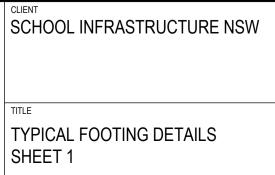


# STIFFENER TYPE B - 140mm BLOCKS SCALE 1:10

				PR	ELIN	/INA	RY
	DUNDAS PUBLIC SCHOOL						
	85 KISSING POINT ROAD, DUNDAS, NSW 211	7					
	STATUS	DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	REVISION
AILS		TG	AA	Approver	23.09.24	1 : 50	P01
AILO	SCHEMATIC DESIGN	PROJECT No	132564				
		DRAWING No					
		DUPS	S-MH	Γ-ΧΧ->	(X-DF	R-S-02	206



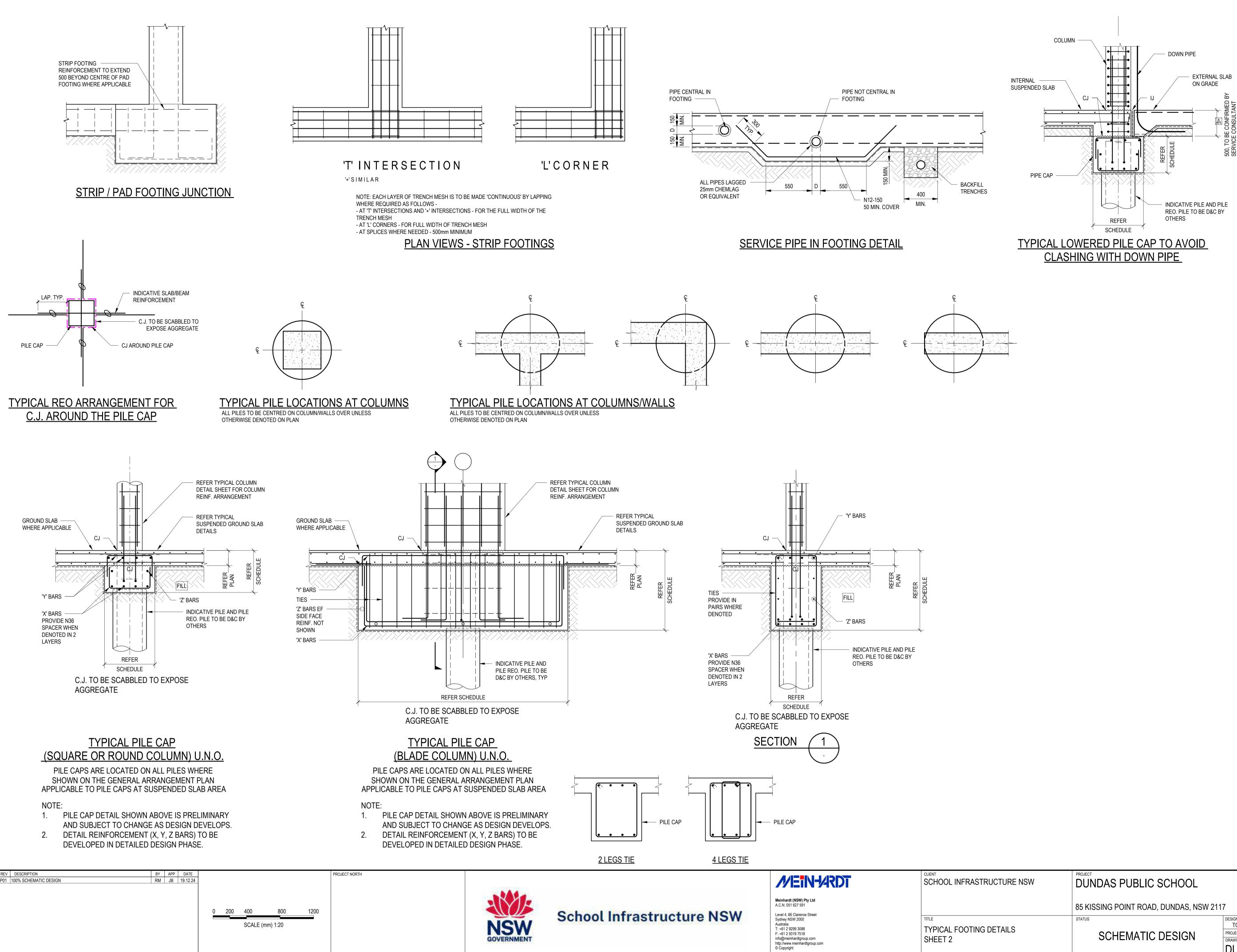
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nents\DUPS-MHT-B00L-ZZ-M3-S-0001_Ron.MyatRWN	
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DUPS-MHT-XX-XX-DR-S-0210

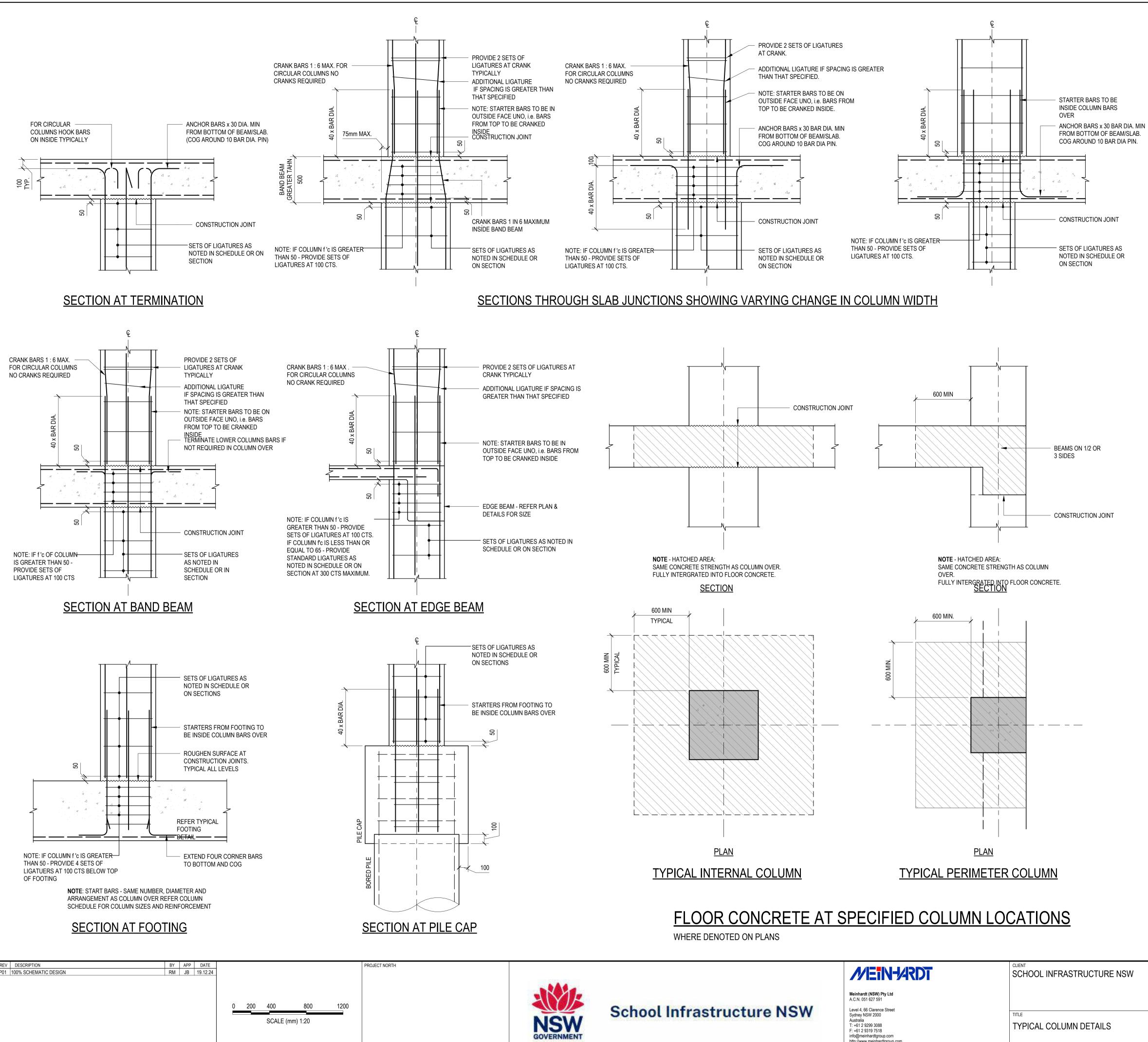


# PRELIMINARY

 
 DESIGNED
 DRAWN
 APPROVED
 DATE
 SCALE @ A1
 REVISION

 TG
 AA
 Approver
 23.09.24
 1 : 20
 P01
 PROJECT No 132564 DRAWING No

DUPS-MHT-XX-XX-DR-S-0211





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85 KISSING POINT ROAD, DUNDAS, NSW 2117									
STATUS	DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	REVISION			
	TG	AA	Approver	23.09.24	1:20				
SCHEMATIC DESIGN	PROJECT No	132564				FUI			
	DRAWING No								
	DUPS-MHT-XX-XX-DR-S-0230								
					· • • • •				

# DUNDAS PUBLIC SCHOOL

# PRELIMINARY

# REFER COLUMN SCHEDULE FOR SIZES COLUMN SECTIONS AT SPLICE

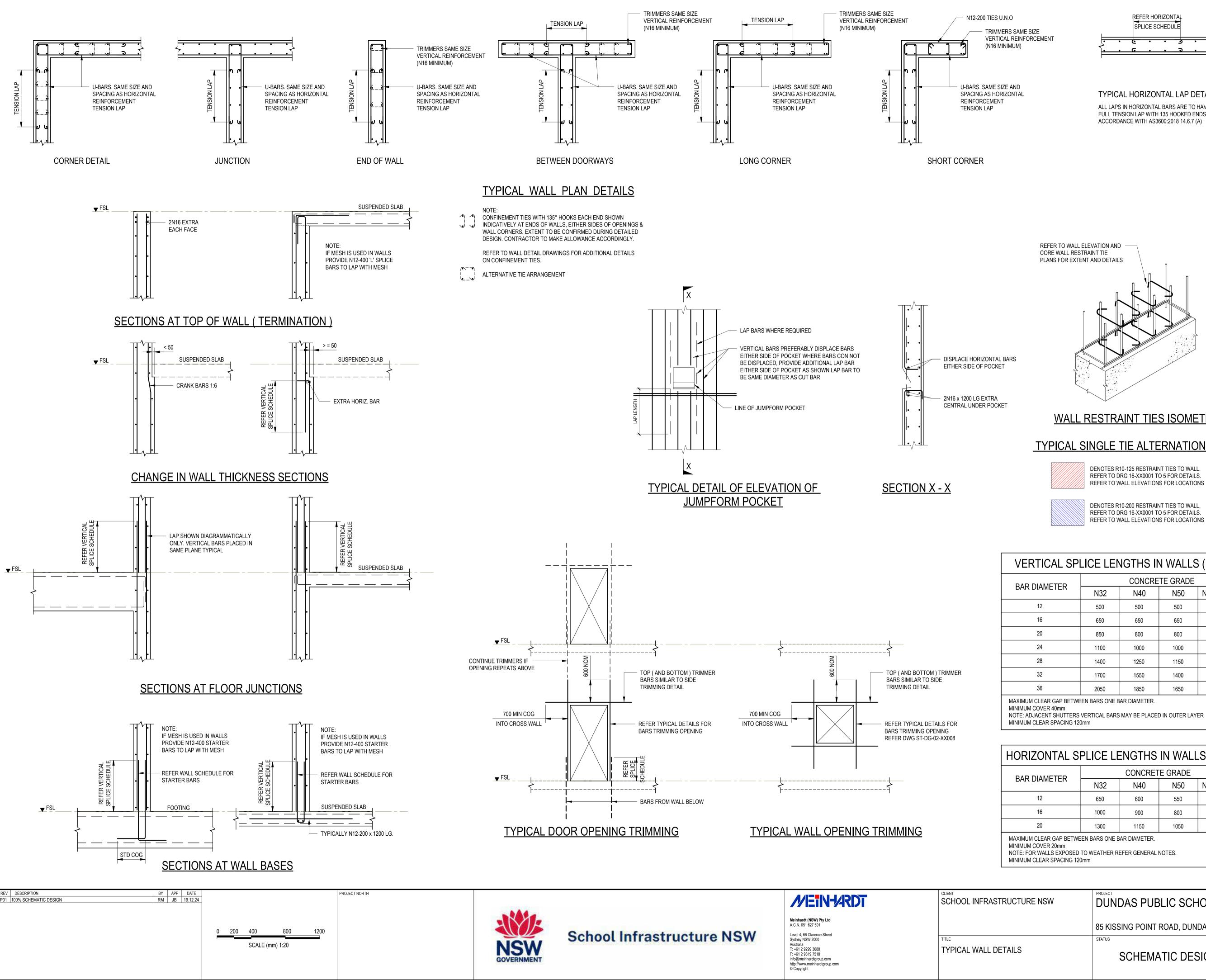
LOWER COLUMN BARS

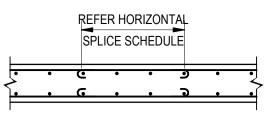
CRANKED UPPER COLUMN BARS

LOWER COLUMN BARS



CRANKED UPPER COLUMN BARS





TYPICAL HORIZONTAL LAP DETAIL ALL LAPS IN HORIZONTAL BARS ARE TO HAVE FULL TENSION LAP WITH 135 HOOKED ENDS IN ACCORDANCE WITH AS3600:2018 14.6.7 (A)

# WALL RESTRAINT TIES ISOMETRIC

# **TYPICAL SINGLE TIE ALTERNATION DETAIL**

DENOTES R10-200 RESTRAINT TIES TO WALL. REFER TO DRG 16-XX0001 TO 5 FOR DETAILS. REFER TO WALL ELEVATIONS FOR LOCATIONS

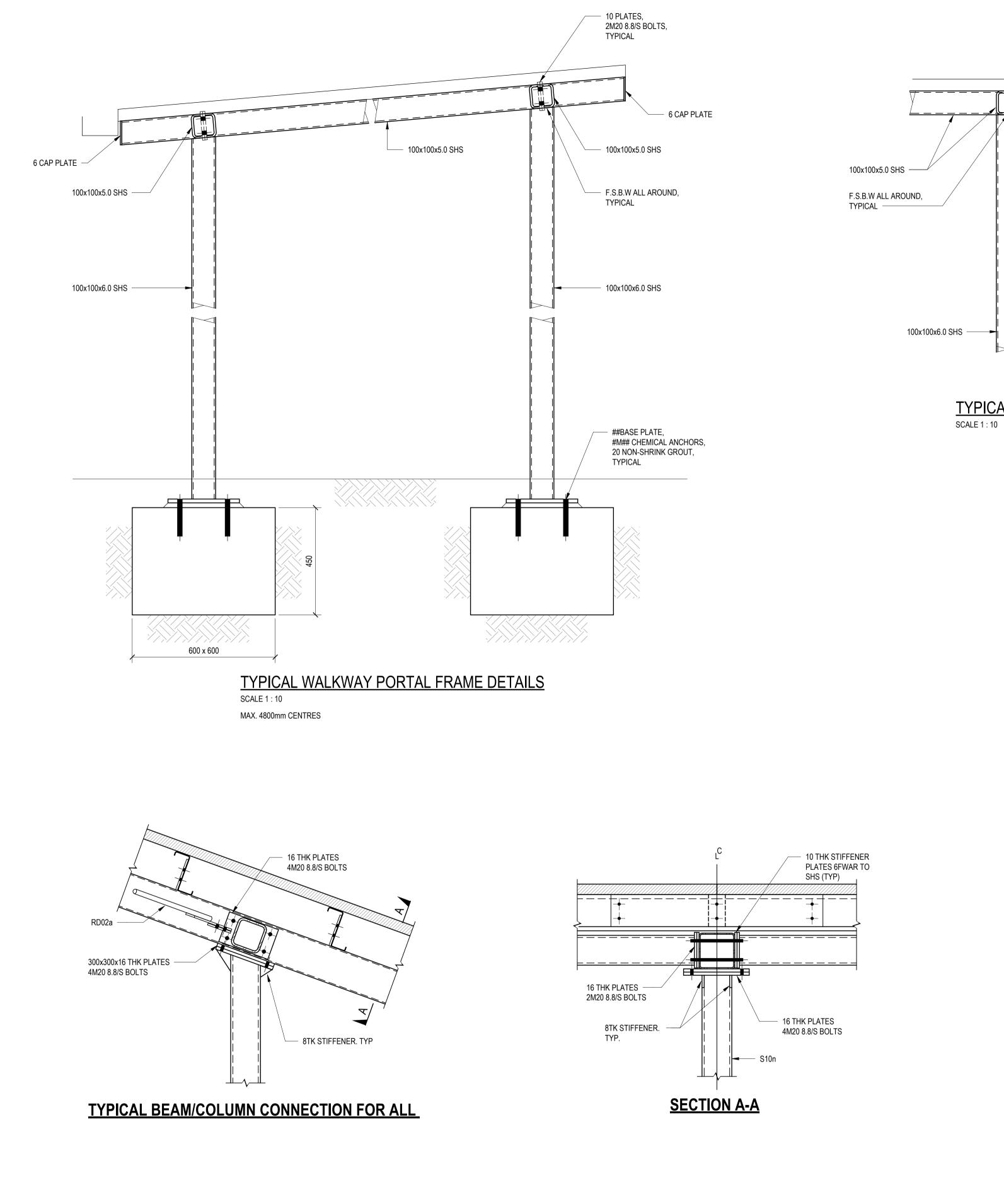
SPLICE LENGTHS IN WALLS (mm)								
D	CONCRETE GRADE							
R	N32	N40	N50	N65-N100				
	500	500	500	500				
	650	650	650	650				
	850	800	800	800				
	1100	1000	1000	1000				
	1400	1250	1150	1150				
	1700	1550	1400	1300				
	2050	1850	1650	1450				
BETWEEN BARS ONE BAR DIAMETER.								

L SPLICE LENGTHS IN WALLS (mm)								
R	CONCRETE GRADE							
	N32	N40	N50	N65-N100				
	650	600	550	500				
	1000	900	800	700				
	1300	1150	1050	900				
BETWEEN BARS ONE BAR DIAMETER.								

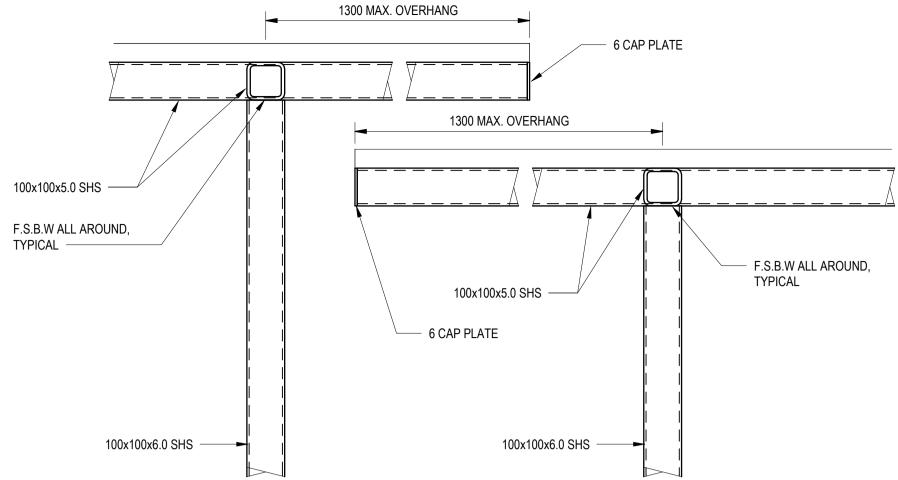
### DUNDAS PUBLIC SCHOOL 85 KISSING POINT ROAD, DUNDAS, NSW 2117 DESIGNED DRAWN APPROVED DATE SCALE @ A1 REVISION Approver 23.09.24 As P01 PROJECT No 132564 SCHEMATIC DESIGN DRAWING No DUPS-MHT-XX-XX-DR-S-0240

PRELIMINARY

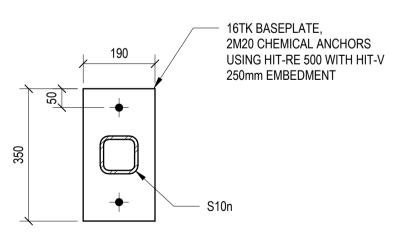
indicated



REV	DESCRIPTION	BY	APP	DATE	PROJECT NORTH	
P01	75% SCHEMATIC DESIGN	RM	JB	22.11.24		
P02	95% SCHEMATIC DESIGN	RM	JB	13.12.24		SAM
<b>2</b> 03	100% SCHEMATIC DESIGN	RM	JB	19.12.24		
					0 100 200 400 600 SCALE (mm) 1:10	



# TYPICAL STEP IN ROOF WALKWAY PORTAL FRAME DETAILS



**TYPICAL BASEPLATE** 





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CLIENT SCHOOL INFRASTRUCTURE NSW

TYPICAL STEELWORK DETAILS

TITLE

# PRELIMINARY

PROJECT DUNDAS PUBLIC SCHOOL

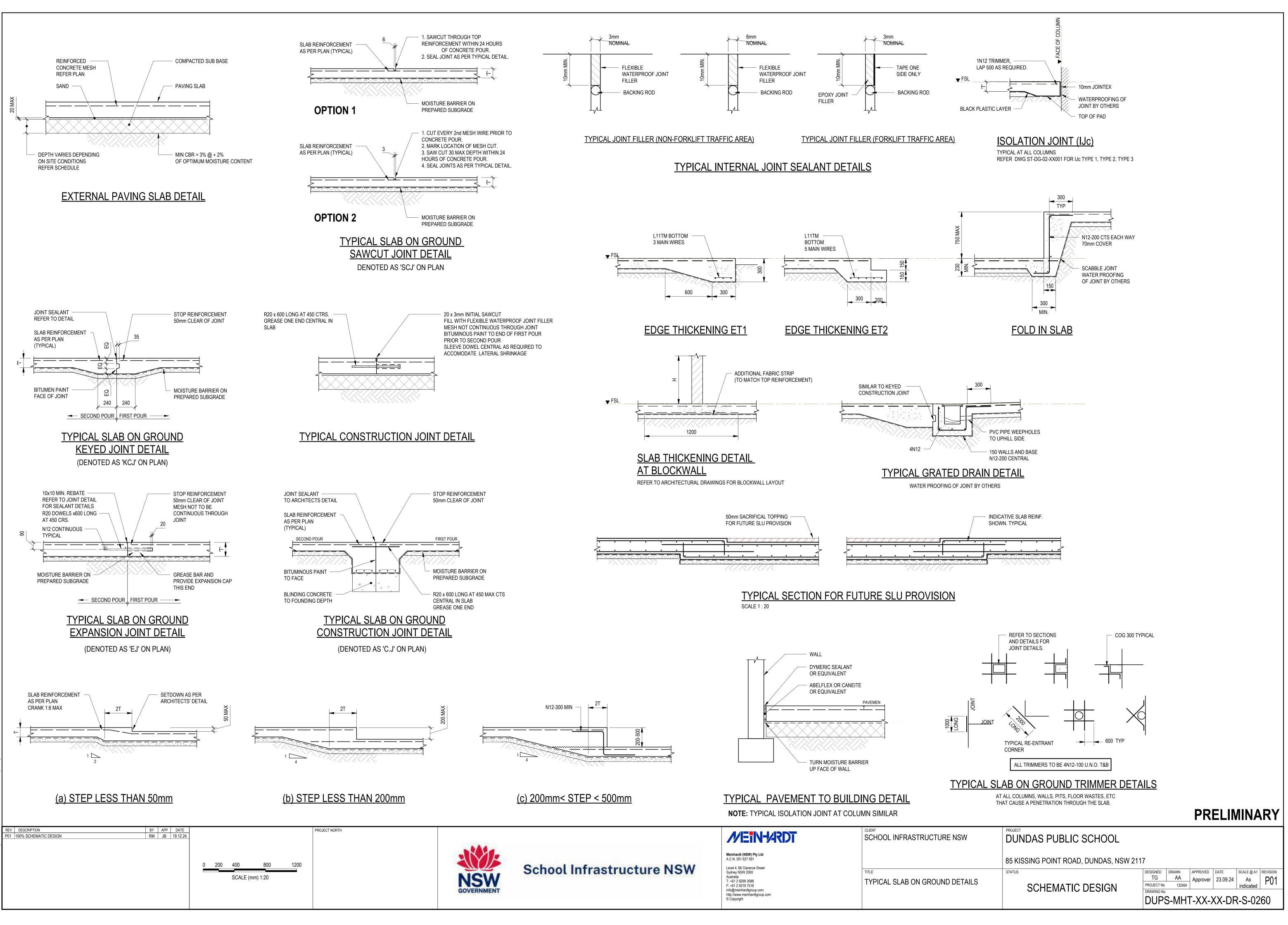
STATUS

85 KISSING POINT ROAD, DUNDAS, NSW 2117

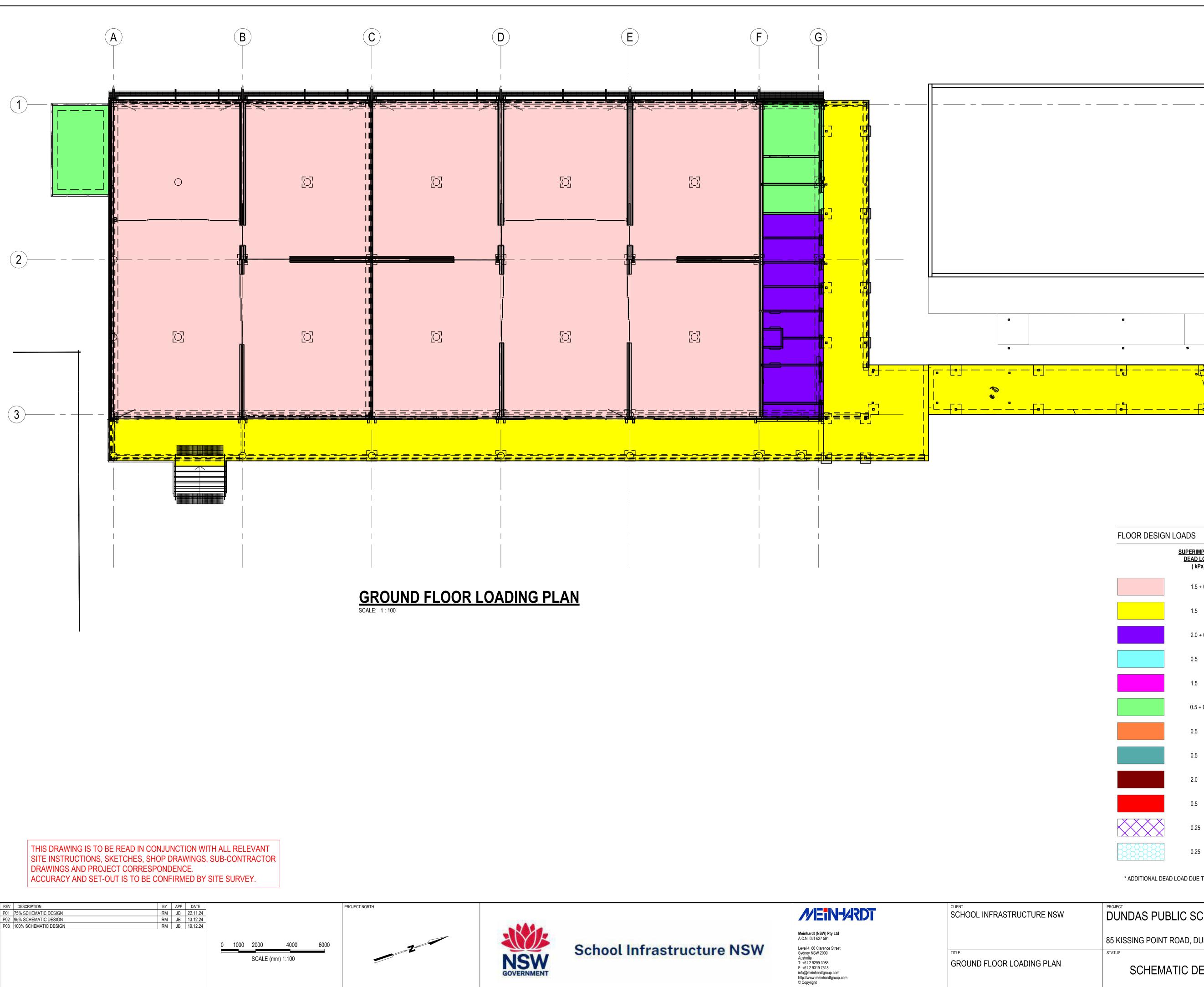
SCHEMATIC DESIGN

 
 DESIGNED
 DRAWN
 APPROVED
 DATE
 SCALE @ A1
 REVISION

 TG
 AA
 Approver
 23.09.24
 1 : 10
 PO3
 DRAWING No DUPS-MHT-XX-XX-DR-S-0250



3:53:06 PM C:\Users\RM\vat\Documents\DUPS-MHT-B00L-ZZ-M3-S-0001 R



•

FLOOR DESIGN LOADS (UNLESS NOTED OTHERWISE) SUPERIMPOSED <u>LIVE LOAD</u> <u>AREA</u> DEAD LOAD ( kPa) ( kPa) 1.5 + 0.5\* 3.0 CLASSROOM (GENERAL) & OFFICES 1.5 4.0 LOBBIES, CORRIDOR & STAIRS 2.0 STUDENT AMENITIES 2.0 + 0.5\* 2.5 PARKING AREA 0.5 1.5 4.0 LIBRARY 5.0 GENERAL STORAGE / PLANT ROOM 0.5 + 0.5\* 0.5 7.5 BULK MATERIAL STORAGE / KILN AREA 0.5 10.0 WOOD + METAL STORAGE 2.0 DANCE HALL, STUDIOS & GYMNASIA 5.0 0.5 5.0 WORKSHOP  $\times \hspace{-1.5mm} \times \hspace{$ 0.25 0.25 SOLAR PANEL 0.25 0.25 WALK WAY ROOF

\* ADDITIONAL DEAD LOAD DUE TO THE LIGHT FRAME STEEL STRUCTURE.

### PROJECT DUNDAS PUBLIC SCHOOL

STATUS

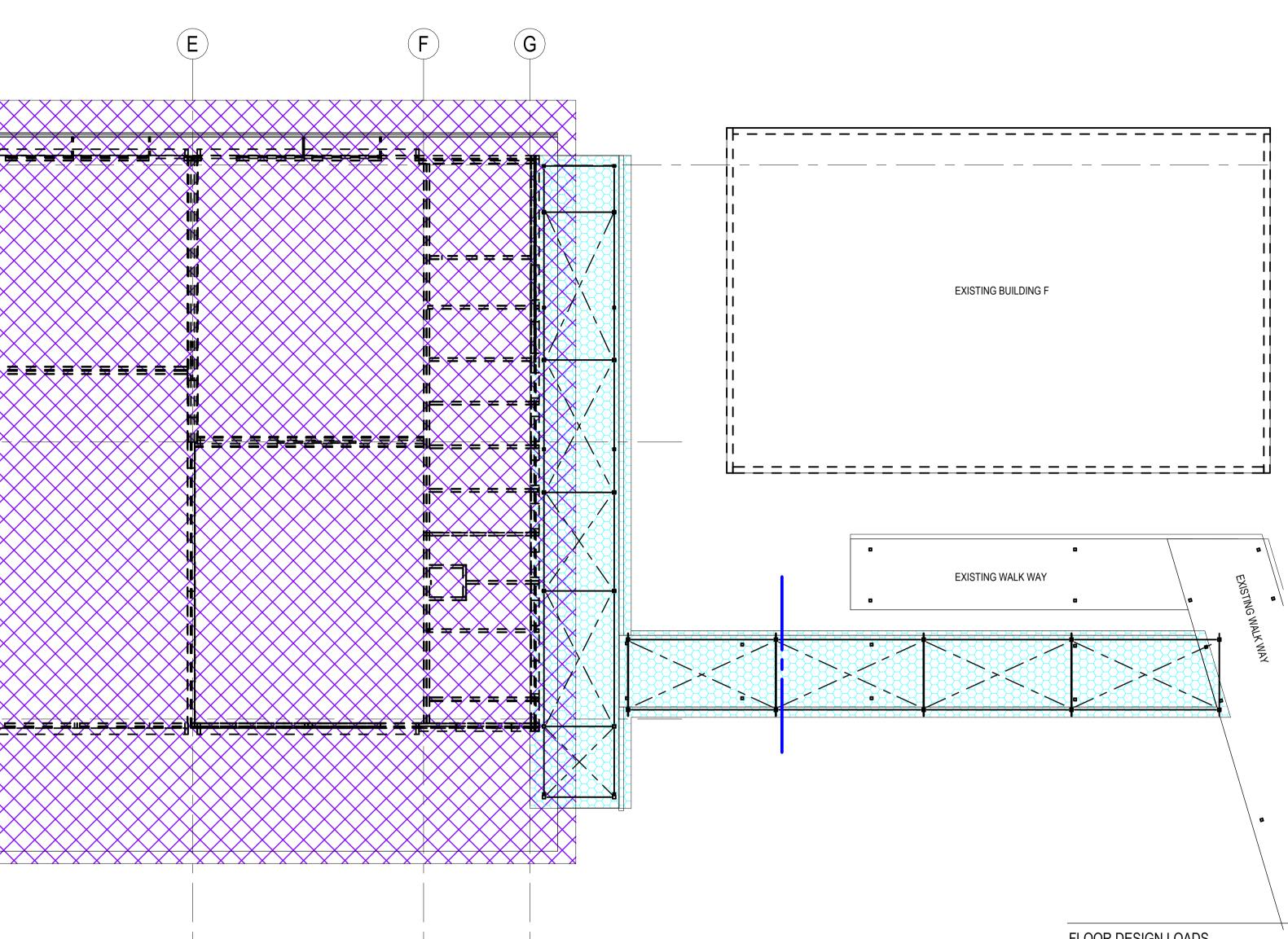
85 KISSING POINT ROAD, DUNDAS, NSW 2117

SCHEMATIC DESIGN

 
 DESIGNED
 DRAWN
 APPROVED
 DATE
 SCALE @ A1
 REVISION

 TG
 AA
 Approver
 23.09.24
 1 : 100
 P03
 PROJECT No 132564 DRAWING No DUPS-MHT-B00L-GF-DR-S-1010

	A		B	C	
1					
2					
3					
				OOF LOADING F	<u>PLAN</u>
SITE INSTRU DRAWINGS	JCTIONS, SKETCHES AND PROJECT COR	N CONJUNCTION WITH ALL S, SHOP DRAWINGS, SUB-C RESPONDENCE. BE CONFIRMED BY SITE S	CONTRACTOR		
DESCRIPTION       11     75% SCHEMATIC DESIGN       12     95% SCHEMATIC DESIGN       13     100% SCHEMATIC DESIGN		BY         APP         DATE           RM         JB         22.11.24           RM         JB         13.12.24           RM         JB         19.12.24	1000 2000 4000 600 SCALE (mm) 1:100	0 PROJECT NORTH	







Meinhardt (NSW) Pty Ltd A.C.N. 051 627 591 Level 4, 66 Clarence Street Sydney NSW 2000 Australia T: +61 2 9299 3088 F: +61 2 9319 7518 info@meinhardtgroup.com http://www.meinhardtgroup.com © Copyright SCHOOL INFRASTRUCTURE NSW

ROOF LOADING PLAN

TITLE

FLOOR DESIGN	N LOADS	(UNLESS NOTED OTHERWISE)	
	<u>SUPERIMPOSED</u> <u>DEAD LOAD</u> ( kPa)	<u>LIVE LOAD</u> ( kPa)	AREA
	1.5 + 0.5*	3.0	CLASSROOM (GENERAL) & OFFICES
	1.5	4.0	LOBBIES, CORRIDOR & STAIRS
	2.0 + 0.5*	2.0	STUDENT AMENITIES
	0.5	2.5	PARKING AREA
	1.5	4.0	LIBRARY
	0.5 + 0.5*	5.0	GENERAL STORAGE / PLANT ROOM
	0.5	7.5	BULK MATERIAL STORAGE / KILN AREA
	0.5	10.0	WOOD + METAL STORAGE
	2.0	5.0	DANCE HALL, STUDIOS & GYMNASIA
	0.5	5.0	WORKSHOP
	0.25	0.25	SOLAR PANEL
	0.25	0.25	WALK WAY ROOF

\* ADDITIONAL DEAD LOAD DUE TO THE LIGHT FRAME STEEL STRUCTURE.

# DUNDAS PUBLIC SCHOOL

STATUS

85 KISSING POINT ROAD, DUNDAS, NSW 2117

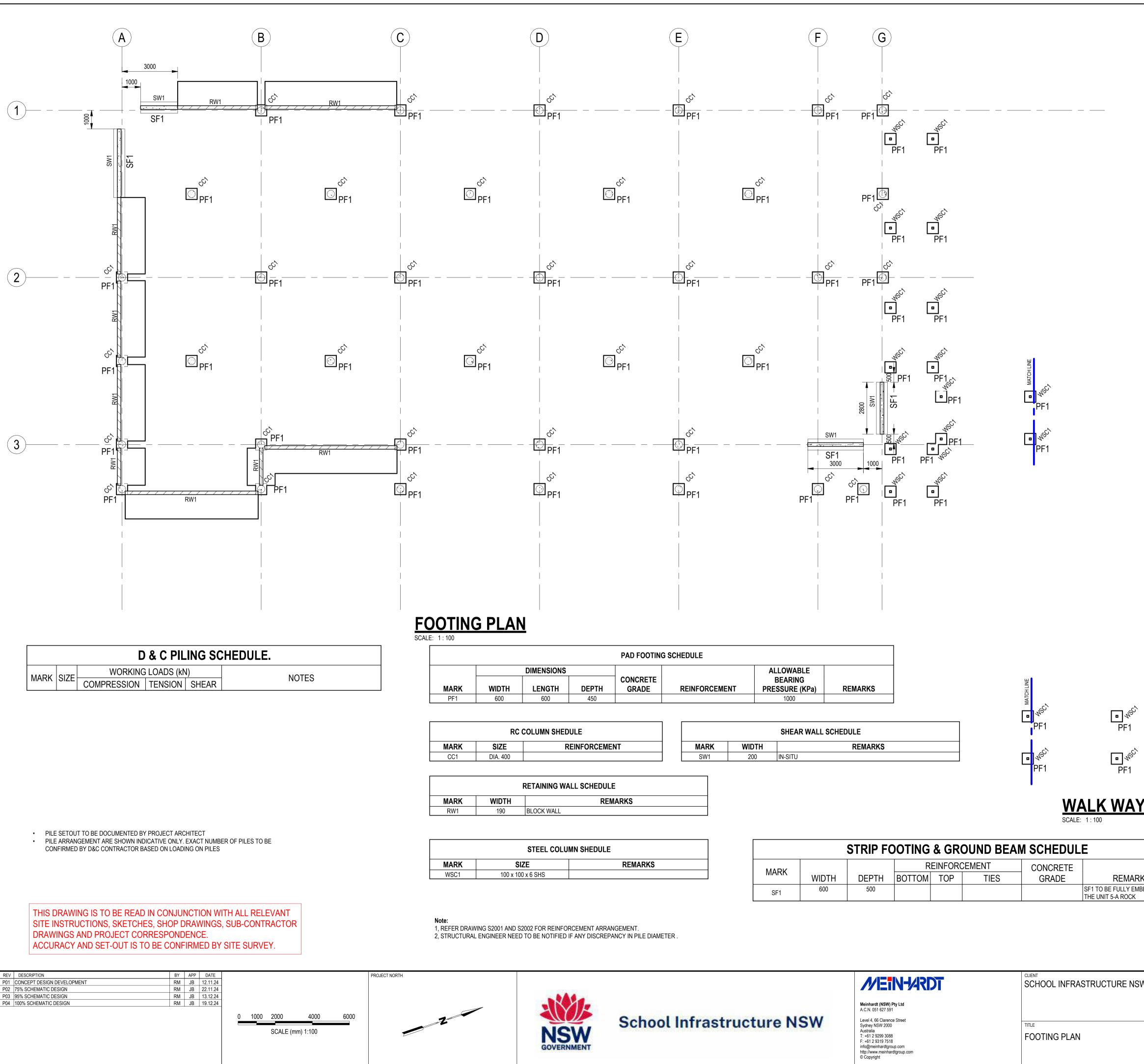
SCHEMATIC DESIGN

 DESIGNED
 DRAWN
 APPROVED
 DATE
 SCALE @ A1
 REVISION

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 Approver
 23.09.24
 1 : 100
 P03

 PROJECT No
 132564
 DRAWING No
 Vertical Scale
 Vertical Scale
 Vertical Scale

DUPS-MHT-B00L-LR-DR-S-1020



		PADFOOTING	SCHEDULE			
NS					ALLOWABLE	
ł	DEPTH	CONCRETE GRADE	REINFORCEME	NT	BEARING PRESSURE (KPa)	REMARKS
	450				1000	
	ULE				SHEAR WALL	
R	EINFORCEMEI	NT	MARK	WIDTH	REMARKS	
			SW1	200	IN-SITU	
i WA		ARKS				

٨N	SHEDULE

							ALK WAY FOO	<u>TING PLAN</u>	
		STRIP FO	DOTING	& GRC	OUND BEA	M SCHEDUI	LE		
MARK	WIDTH	DEPTH	R BOTTOM	EINFORC TOP	EMENT TIES	CONCRETE GRADE	REMARKS		
SF1	600	500					SF1 TO BE FULLY EMBEDDED IN THE UNIT 5-A ROCK		
									PRELIMINARY
		ME	IN-1/ARI	T		SCHOOL INFR	ASTRUCTURE NSW	DUNDAS PUBLIC SCHOOL	
	CIV	Meinhardt (NSW) A.C.N. 051 627 59 Level 4, 66 Clarend	1					85 KISSING POINT ROAD, DUNDAS, NSW	2117
cture N	51	Level 4, 66 Clarent Sydney NSW 2000 Australia T: +61 2 9299 3084 F: +61 2 9319 7514 info@meinhardtgrc http://www.meinha	) 8 8 pup.com			FOOTING PLAN	N	SCHEMATIC DESIGN	DESIGNED TG     DRAWN AA     APPROVED JB     DATE 23.09.24     SCALE @ A1 As indicated     REVISION       PROJECT No     132564     JB     23.09.24     As indicated     PO4

# STRUCTURAL SIZES

RC COLUMNS

REFER TO COLUMN SCHEDULE

# CONCRETE GRADE

ALL FLOOR ELEMENTS N40 (DENSEWEIGHT)

# PILE DESIGN NOTE

- A D+C PILING CONTRACTOR MAY TO IMPROVE ON THESE PARAMETERS IF 1. PROVIDED WITH DETAILED TEST RESULTS OR THROUGH CARRYING OUT ADDITIONAL ON SITE TESTING.
- 2. ALL PILES (EXCLUDING CAPPING BEAMS AND PILE CAPS) SHALL BE DELIVERED ON A DESIGN AND CONSTRUCT BASIS, BY A SPECIALIST PILING CONTRACTOR. THE ENGAGEMENT OF THE SPECIALIST PILING CONTRACTOR SHALL BE TO THE SATISFACTION OF THE SUPERINTENDENT.
- REFER GEOTECHNICAL REPORT BY ADE CONSULTING GROUP. 3.
- THE SPECIALIST PILING CONTRACTOR SHALL DESIGN, CERTIFY AND 4. CONSTRUCT THE PILES TO MEET THE SCHEDULED LOADS, SETTLEMENT LIMITS AND MINIMUM REQUIREMENTS.
- UNLESS NOTED OTHERWISE, ALL PILES LENGTH, REINFORCEMENT AND 5. CONCRETE STRENGTH SHOWN ARE FOR COSTING ONLY. 6.
- DURING INSTALLATION, ANY PILE CONSTRUCTED BEYOND THE SPECIFIED TOLERANCES SHALL BE IMMEDIATELY REPORTED TO THE SUPERINTENDENT, WITH ALL RELEVANT AS-BUILT INFORMATION IN DIGITAL FORMAT (CAD) TO ENABLE REVIEW. ANY ASSOCIATED ENGINEERING COSTS INCURRENT BY NON-COMPLIANT CONSTRUCTION SHALL BE BORNE BY THE PILING CONTRACTOR. SUFFICIENT TIME SHALL BE ALLOWED FOR THE REVIEWS, ANY ASSOCIATED RE-DESIGN AND RE-DOCUMENTATION WORKS.
- 7. THE BUILDER / PILING CONTRACTOR SHALL PROVIDE WRITTEN CONFIRMATION TO THE SUPERINTENDENT THAT THE AS-BUILT PILES COMPLY FULLY WITH PERFORMANCE SPECIFICATIONS.
- 8. THE BUILDER SHALL EMPLOY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER TO VALIDATE ALL ADOPTED GEOTECHNICAL PARAMETERS SPECIFIED ON THE STRUCTURAL, CIVIL AND GEOTECHNICAL ENGINEERING REPORTS AND PROVIDE NOTIFICATION OF ANY DISCREPANCIES. THIS SHALL INCLUDE, BUT NOT LIMITED TO, SUB-GRADE PREPARATION, BATTER SLOPES AND STABILITY AND BEARING CAPACITY.
- THE SCHEDULED LOADS DO NOT INCLUDE PILES SELF WEIGHT. THE PILING 9. CONTRACTOR SHALL ALLOW AS APPROPRIATE.

LEGEND	(UNLESS OTHERWISE NOTED)
250	DENOTES THICKNESS OF SLAB
$\frac{1}{2} \left[ \frac{1}{2} \left$	DENOTES CONCRETE ELEMENT OVER
	DENOTES BLOCKWORK WALL OVER
$\otimes$	PILE LOAD CENTROID. REFER DWG S2001 FOR PILE LOAD TABLE.

DUPS-MHT-B00L-FF-DR-S-2000

# MALIZ MANY ECOTING DI ANI

PF1

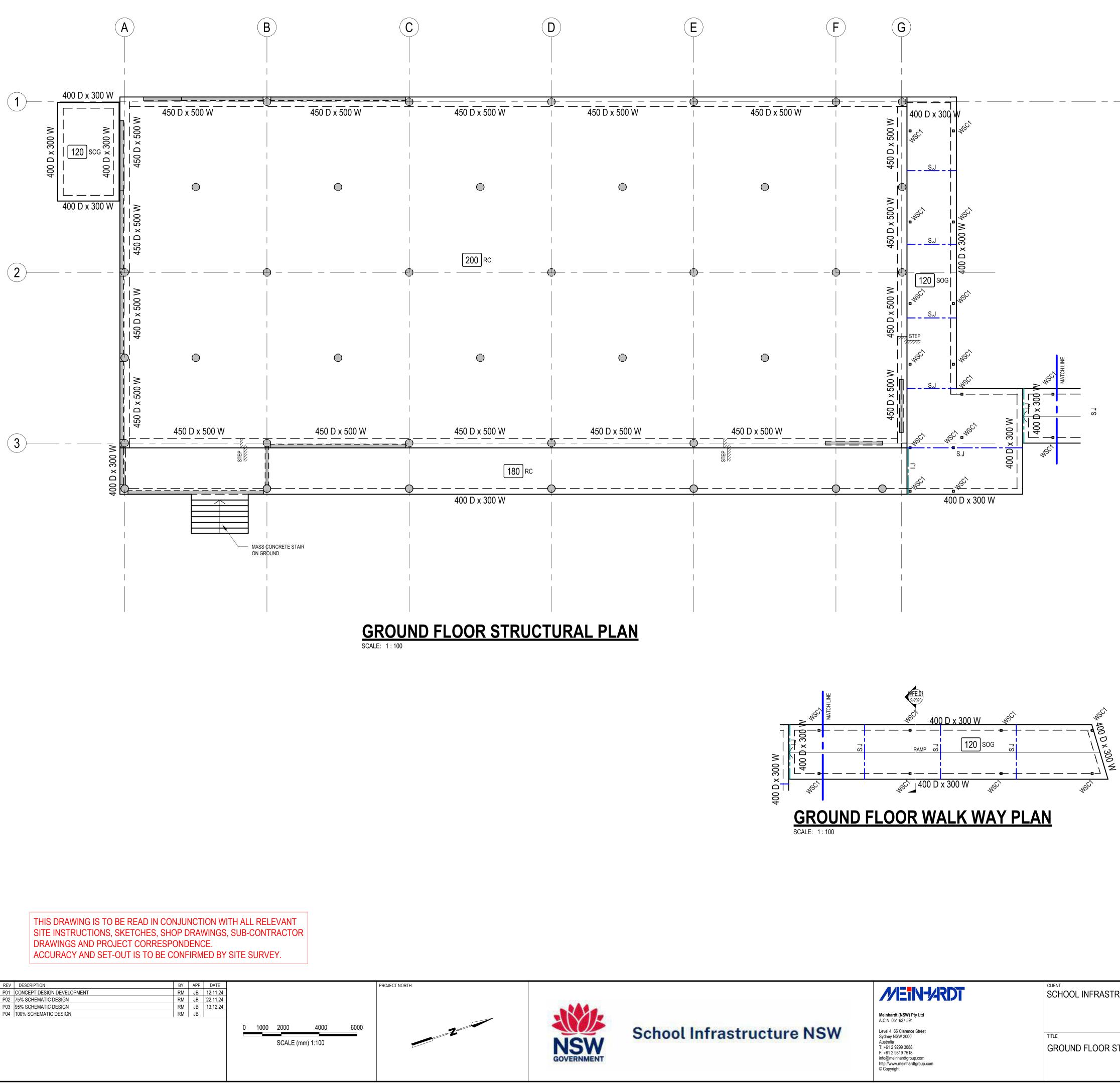
• WSC

PF1

PF1

PF1





SCHOOL INFRASTRUCTURE NSW

GROUND FLOOR STRUCTURAL PLAN

# STRUCTURAL SIZES

SLAB

GENERALLY 200mm THICK S.S.O.G, U.N.O. ON WATERPROOFING MEMBRANE OVER 120mm DRAINAGE LAYER. THICKNESS OF DRAINAGE LAYER TO BE CONFIRMED BY HYDRAULIC ENGINEER.

# CONCRETE GRADE

ALL FLOOR ELEMENTS N40 (DENSEWEIGHT)

# NOTES

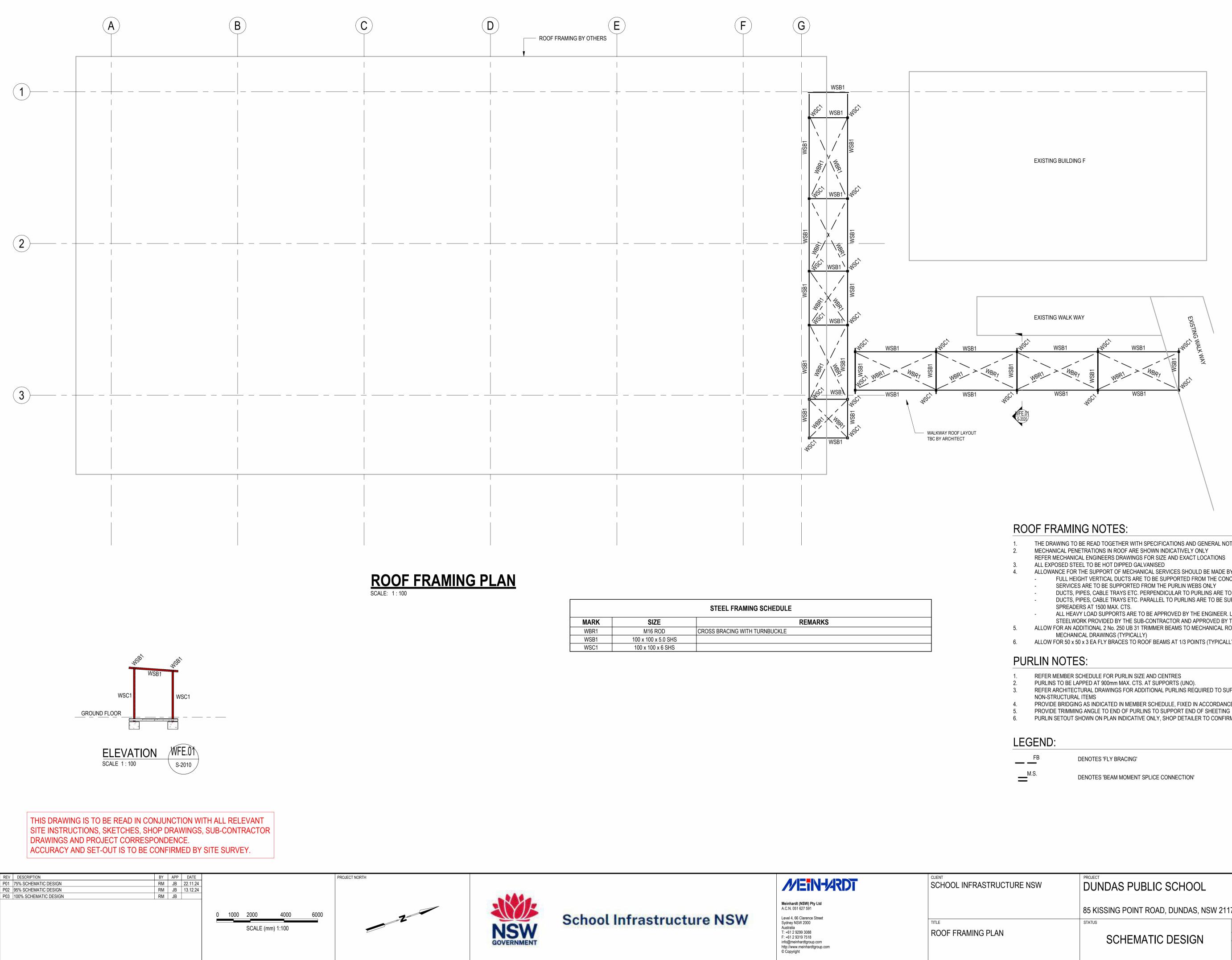
1. ALL STEPS, REBATES AND HOBS LOCATIONS AND EXTENT REFER TO ARCHITECTURAL SET OUT PLANS. REFER STRUCTURAL DRAWINGS FOR TYPICAL HOB AND SET DOWN DETAILS.

LEGEND	(UNLESS OTHERWISE NOTED)
250	DENOTES THICKNESS OF SLAB
CJ	DENOTES CONSTRUCTION JOINT
T.M.J	DENOTES TEMPORARY MOVEMENT JOINT
P.M.J	DENOTES PERMANENT MOVEMENT JOINT
<u> </u>	DENOTES SAW CUT JOINT
I.J	DENOTES ISOLATION JOINT
	DENOTES SLAB STEP REFER TO ARCHITECTUAL DRAWINGS FOR SETOUT AND DIMENSIONS
	DENOTES CONCRETE ELEMENT OVER
2003	DENOTES LOAD-BEARING ELEMENT UNDER
2003	DENOTES LOAD-BEARING ELEMENT UNDER AND CONCRETE ELEMENT OVER
	VOID FORMER NOT REQUIRED ,USE 50mm BLINDING INSTEAD
NLBW	DENOTES NON LOAD BEARING WALL, 200TK RC, 40MPA CONCRETE, N12-250 EF/EW.
	DENOTES S.O.G, WITH 300x300 EDGE BEAM (ET1) U.N.O. REFER CIVIL DRAWINGS FOR DETAIL.

RC COLUMN SHEDULE					
MARK	SIZE	REINFORCEMENT			
CC1	DIA. 400				

STEEL COLUMN SHEDULE				
MARK	SIZE	REMARKS		
WSC1	100 x 100 x 6 SHS			

				PR	ELIN	IINA	RY
	DUNDAS PUBLIC SCHOOL						
	85 KISSING POINT ROAD, DUNDAS, NSW 211	7					
	STATUS	DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	REVISION
		TG	AA	JB	23.09.24	1 : 100	P04
	SCHEMATIC DESIGN		132564				ТОТ
		DUPS	S-MH7	<b>Г-В</b> 00	GF-l	DR-S-	2010



STEEL FRAMING SCHEDULE						
MARK	SIZE	REMARKS				
WBR1	M16 ROD	CROSS BRACING WITH TURNBUCKLE				
WSB1	100 x 100 x 5.0 SHS					
WSC1	100 x 100 x 6 SHS					

	-
	-
	-
	-
5.	ALLOW
δ.	ALLOW
PUR	RLIN I
1.	

	FURLIN
i.	REFER
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	PROVIE
j.	PROVIE
i.	PURLIN

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	M.S.

THE DRAWING TO BE READ TOGETHER WITH SPECIFICATIONS AND GENERAL NOTES

- ALLOWANCE FOR THE SUPPORT OF MECHANICAL SERVICES SHOULD BE MADE BY THE CONTRACTOR AS FOLLOWS:
  - FULL HEIGHT VERTICAL DUCTS ARE TO BE SUPPORTED FROM THE CONCRETE FLOOR SLAB BELOW
  - SERVICES ARE TO BE SUPPORTED FROM THE PURLIN WEBS ONLY
  - DUCTS, PIPES, CABLE TRAYS ETC. PERPENDICULAR TO PURLINS ARE TO BE SUPPORTED FROM EVERY PURLIN (1500 MAX. CTS.) DUCTS, PIPES, CABLE TRAYS ETC. PARALLEL TO PURLINS ARE TO BE SUPPORTED FROM 3 No. PURLINS USING 75 x 75 x 6 EA
  - ALL HEAVY LOAD SUPPORTS ARE TO BE APPROVED BY THE ENGINEER. LOADS GREATER THAN 300kg TO BE SUPPORTED BY STEELWORK PROVIDED BY THE SUB-CONTRACTOR AND APPROVED BY THE ENGINEER V FOR AN ADDITIONAL 2 No. 250 UB 31 TRIMMER BEAMS TO MECHANICAL ROOF VENTS. LOCATIONS TO ARCHITECT AND

  - W FOR 50 x 50 x 3 EA FLY BRACES TO ROOF BEAMS AT 1/3 POINTS (TYPICALLY)

- R ARCHITECTURAL DRAWINGS FOR ADDITIONAL PURLINS REQUIRED TO SUPPORT FLASHING, GUTTERS AND OTHER IDE BRIDGING AS INDICATED IN MEMBER SCHEDULE, FIXED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS
- IN SETOUT SHOWN ON PLAN INDICATIVE ONLY, SHOP DETAILER TO CONFIRM ACTUAL NUMBER OF PURLINS REQUIRED

	PRELIMINARY										
	DUNDAS PUBLIC SCHOOL										
	85 KISSING POINT ROAD, DUNDAS, NSW 2117										
	STATUS		DRAWN	APPROVED	DATE	SCALE @ A1	REVISION				
		TG	AA	JB	23.09.24	1 : 100	P03 I				
	SCHEMATIC DESIGN	PROJECT No	132564				1.00				
		DRAWING No	=								
DUPS-MHT-B00L						DR-S-	2020				

### (UNLESS OTHERWISE NOTED)

(UNLESS OTHERWISE NOTED)