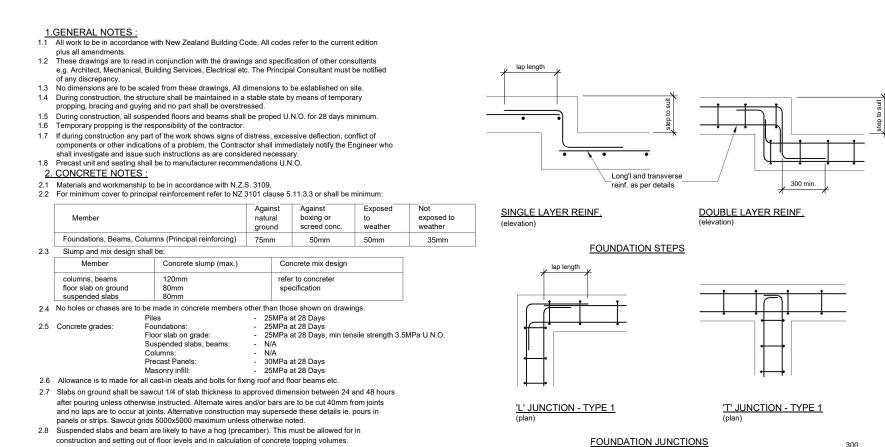


APD StormSlab[®] 300D TANKS CLASS M SOILS - SINGLE STOREY APD LTD



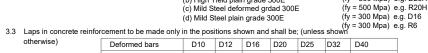
REF NO: 7527-M(1)



- construction and setting out of floor levels and in calculation of concrete topping volumes.
- 2.9 Suspended floors are to be poured to thickness and NOT to a level. 2.9a All concrete that is to be poured against is to be scabbled to 5mm amplitude

3. REINFORCEMENT NOTES :

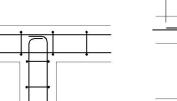
3.1	Reinforcement is shown diagrammatically				
3.2	Reinforcing has been designated;	(a) High Yield deformed grade 500E			
		(b) High Yield plain grade 500E (c) Mild Steel deformed grdad 300E	(fy = 500 Mpa) e.g. D20H (fy = 500 Mpa) e.g. R20H		
		(-) ····	(000 M) D40		



present mask long with a minimum of 2 press with but hat long than								
	Grade 500	650	800	1050	1300	1650	2100	2600
	Grade 300	400	480	640	800	1000	1250	1600

3.5 Reinford mesh laped with a minimum of 2 cross wire bu

- SE82-SE92 Mesh lap length 400mm SE62-SE72 Mesh lap length 300mm; 3.6 Where laps are not shown on the drawings, reinforcement in slabs and walls may, if approved, be
- lapped at random in a staggered pattern.
- 3.7 No welding, heating or reverse bending of bars is permitted without the consent of the engineer.
- 3.8 Reinforcement in slabs is to be supported on stools or other approved methods starters to be
- tied in place before pouring. All steel to be complient with AS/NZS 4671 or equivalent. Steel reinforcing material shall be ductility class "E". 4. BLOCKWORK NOTES :
- 4.1 All blockwork shall be under the direct supervision of a registered Mason who shall provide continuous inspection. All work shall comply with N.Z.S. 4210 Masonry Materials and Workmanship.
- 4.2 Masonry is to be constructed by the 'High Lift' method with clean out ports at every vertical bar and at the bottom of every lift. Bottom course to be open ended bond beam blocks placed upside
- 4.3 Fix vertical bars before laying blocks and place horizontal bars as laying proceeds.
- 4.4 All cells filled unless otherwise noted.
 4.5 Concrete for filling blockwork to have a compressive strength as shown in CONCRETE note 2.5 above and to have expanding admixture added on site and mixed immidiatly prior to placing.
- 5. STEELWORK NOTES :
- All structural steelwork to be grade 300 unless noted otherwise complying with the appropriate 5.1
- standards listed in N.Z.S 3404. 5.2 Bolted connections to be made with grade 8.8 bolts, snug thightened, to A.S.1252. with 2mm clearance to holes unless shown otherwise.
- 5.3 Bolt threads to be excluded from shear plane.
- 5.4 All welding to be arc welding in accordance with AS/N.Z.S. 1554.1. All welds to be 6mm fillet continuous unless noted otherwise.
- 5.5 Do not paint steelwork that is to be encased in concrete.
- 5.6 This set of structural steelwork drawings show the design intent. Shop drawings remain the responsibility of the contractor.
- 5.7 All holding down bolts and other fixing devices are to be set by a template and checked for level and position before concreting. 5.8 Check and verify all dimensions and levels on site before commencing fabrication of any structural
- steelwork. 5.9 Unless shown otherwise, all baseplates shall bear directly on 25 +/- 5mm of dry pack mortar.
- 5.10 Washers tapered where necessary, are to be used under all nuts & bolt heads 5.11 All R.H.S members are to be capped and all joints sealed.
- 5.12 Where items are to be hot dip galvanised, allow for tolerances, yent holes etc. as necessary
- 5.13 All welding symbols shown on the drawings are in accordance with N.Z.S. 1100.501:1985. 6. INSPECTION NOTES :
- 6.1 Adequate notice is required by the Engineer for inspection of the works. The Contractor must be satisfied that the works have been completed in accordance with the drawings and specification before confirming an inspection by the Engineer.



ld but not les than 65mm

diam

4 d

bar type deformed

BEAM AND COLUMN STIRRUPS

diam

2 d

D10 D12 D16 D20 D25

400 500 650 800 1050

TIES AND STIRRUPS

bar size

6 - 20 25-40

LAPS IN MASONRY REINFORCEMENT

steel grade

500 MPa

REINFORCING BENDS

horizonta

bar centres

300 MPa or

700 900 1200 1400 1750

Deformed bars

Grade 300

Grade 500

MAIN REINFORCEMENT

bar size

eg. 12 H D 20 - 600 H

REINFORCING IDENTIFICATION

No of bars in run

bar type (D or R)-

High Yield reinf.

(m.s. if omitted)

6 - 20

25-40

stee

arade

500 MPa

300 MPa or

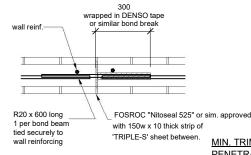
min. dia. of bend

5 d

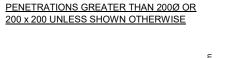
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bar diameter

6 d



TYP. BLOCK WALL CONTROL JOINT



OFFSET LAP

length

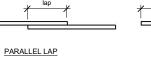
MIN. TRIMMER REQUIRED TO WALL AND SLAB

WALL JUNCTIONS AND TERMINATIONS

Details apply unless shown otherwise on drawings.

2. Standard laps to be used unless shown otherwise

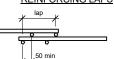
Notes



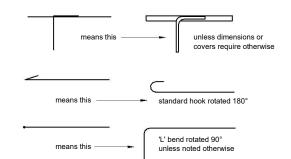
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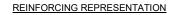
For lap lengths see REINFORCEMENT note No.3





REINFORCING MESH LAPS





AL MA

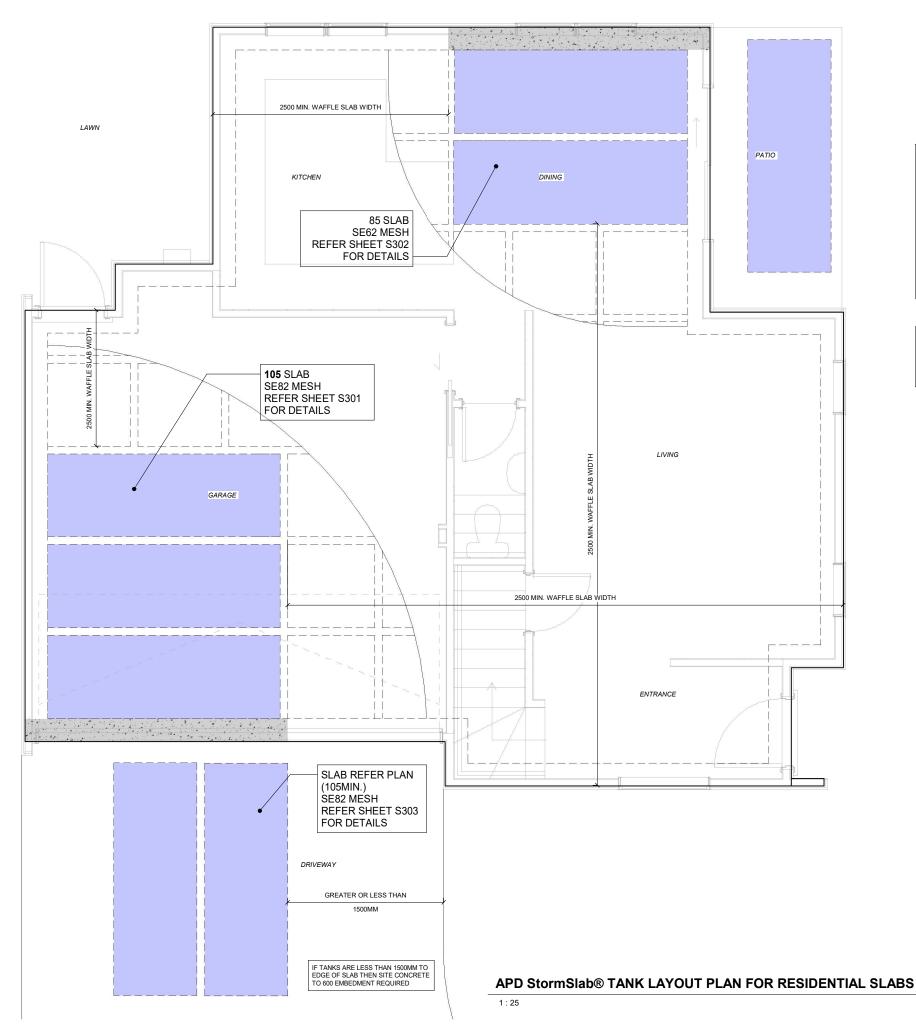
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12 d lea 300 min				ALL RIGHTS RESERVED: NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM WITHOUT WRITTEN APPROVAL FROM DHC CONSULTING LIMITED						
			REFER ARCHITECTURAL DRAWINGS FOR ALL DIMENSION. LEVELS, SETDOWNS, NIBS, REBATED, DUCTS THRU FLOORS / WALLS ETC, AND ALL OTHER SETTING OUT UNLESS SHOWN							
				THE STRUCTURA CONJUNCTION WITH T RELEVANT DRAWING	THE AR	WINGS MUST BE RE CHITECTURAL AND DCIATED WITH THE	ALL OTHER			
	lap ler			NOTES: 1. ALL STRUCTU CONSTRUCTION ACCORDANCE W	RAL S	TEEL TO BE	PROJECT.			
the mai unle othe not	E REPROD	e as ing 1 t		A 19/04/24 FOR I REV DATE	BUILDIN	NG CONSENT AMENDMENT				
		COMMON ABBREVIATIONS CHECK ON SITE								
Ļ	ES EXTG FL	EQUALLY SPACED EXISTING FINISHED LEVEL								
GENERAI	GL LG NTS	GROUND LEVEL LONG NOT TO SCALE		STRUC	RAL CIVI	L				
GEI	SED SMALL END DIAMETER SFL STRUCTURAL FINISHED LEVEL TBA TO BE ADVISED TBC TO BE CONFIRMED			1/20 0	onsonh	v Rd Grev Lynn				
	TYP TYPICAL UNO UNLESS NOTED OTHERWISE			1/30 Ponsonby Rd, Grey Lynn Auckland 1011 Ph:09 520 0355 E: info@dhc.nz						
L Z	PC PCP PS RC	PRECAST CONCRETE PRECAST CONCRETE PANEL PRESTRESSED CONCRETE REINFORCED CONCRETE	s							
REINFORCEMENT	REO B	REINFORCEMENT BOTTOM	FOLDERS/7500-7599/7527-apd-instab-tarks/3.0 Working/2.0 DHC Drawings Files/3.0 Updated drawings 24 - Trenchi/300D/7577 - 2024 (dr. 19 - 300D ADP Tank - Waffle siab Details - Class Mrt1 rot							
FORC	C CAR CJ CVR	CENTRAL COVER ALL ROUND CONSTRUCTION/CONTROL JOINT COVER	3.0 Update M(1).rvt							
REIN	EF EW FF	EACH FACE EACH WAY FAR FACE	ng\2.0 DHC Drawings Files\3.0 L - Waffle slab Details - Class M/1							
а М	H NF	HORIZONTAL NEAR FACE SAWCUT	HC Drawin slab Detail							
RET	SC T V	TOP VERTICAL	ing\2.0 DF	FOR BUIL	DI		ENT			
CONCRET	ABR ABS LAR	ALTERNATE BAR REVERSED ALTERNATE BAR STAGGERED LAP AT RANDOM	3.0 Work							
0	NL STA STR	NO LAP STARTER(S) STIRRUP	lab-tanks			ILS - SIN	-			
	TRM TOS T/O	TRIMMER TOP OF STEEL TOP OF	7-apd-ins 024.04.15	SIUKEI	- 3		NJ			
STEEL	T/O U/S CRS	TOP OF UNDERSIDE CENTRES	7599/752							
	DIA PCD	DIAMETER PITCH CIRCLE DIAMETER	tS\7500-7	STANDA	RD	NOTES A	ND			
ŝ	R C/W HD	RADIUS COMPLETE WITH HOLDING DOWN (BOLTS)	H:UOB FOLDERS/7500-7599/7527-apd-inslab-tarks/3.0 MAR 2024 - Trenchi300D/7527 - 2024 04.19 - 300D ADP		DEI	ΓAIL				
с D	HD GAL FW	VIOT DIP GALVANISED	H:\JOB MAR 20	DESIGNED IR		DATE 19/04/2				
LDING	CFW FWAR SVBW	CONTINUOUS FILLET WELD FILLET WELD ALL ROUND SINGLE V BUTT WELD	PM	DRAWN JT		CHECKED A3 SCA	AH			
WELDI	DVBW SBBW	DOUBLE V BUTT WELD SINGLE BEVEL BUTT WELD	1:33:49 F	1 : 20 JOB No.		DWG No.	REVISION			
	DBBW	DOUBLE BEVEL BUTT WELD	W05/2024 1:33:49	7527-M(1)		S002	A			
			3/05	1 321 -141(1)		5002	A			

NOTES:

ROOF: GARAGE & DRIVEWAY:

CONCRETE STRENGTH:

20MPA

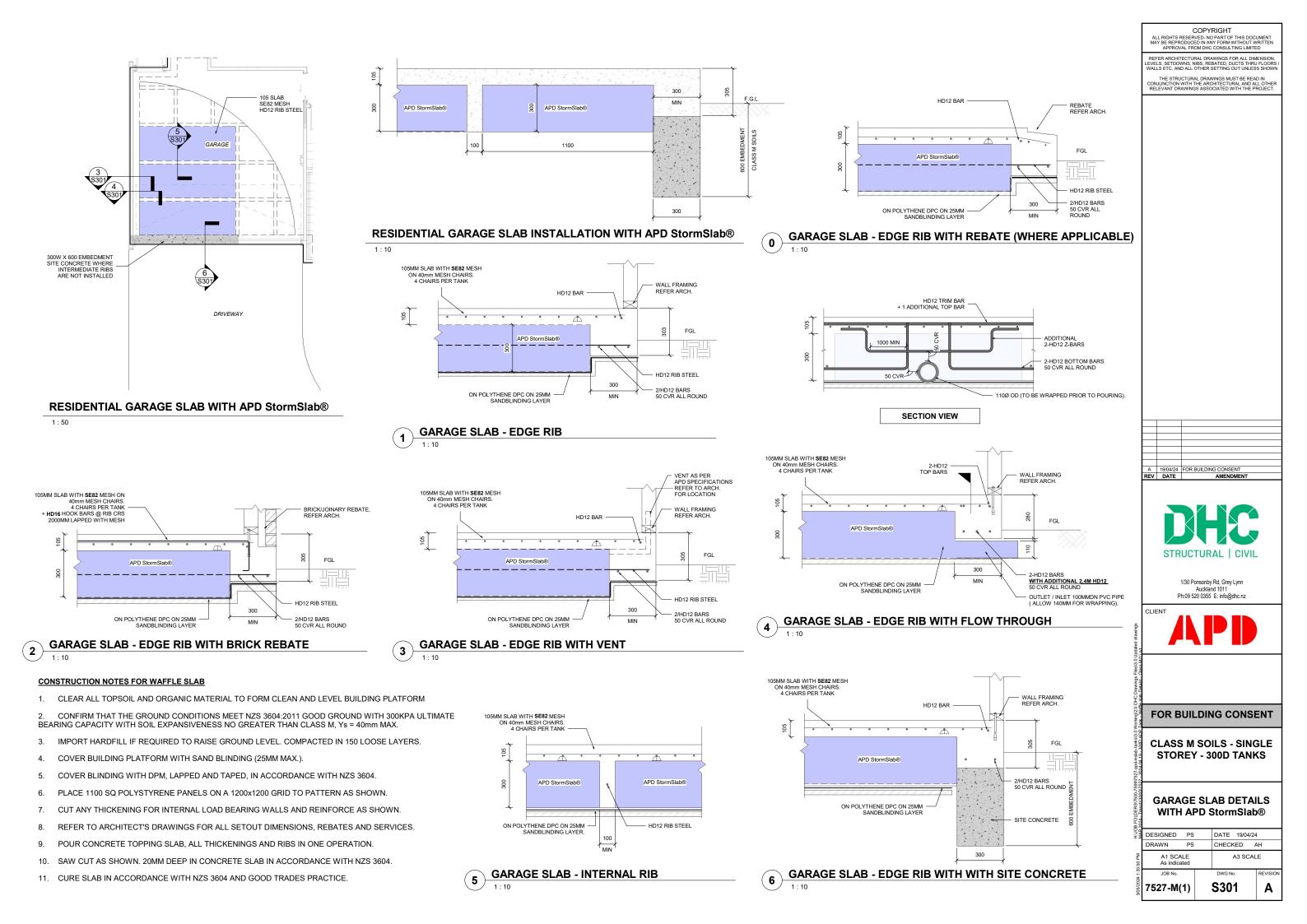


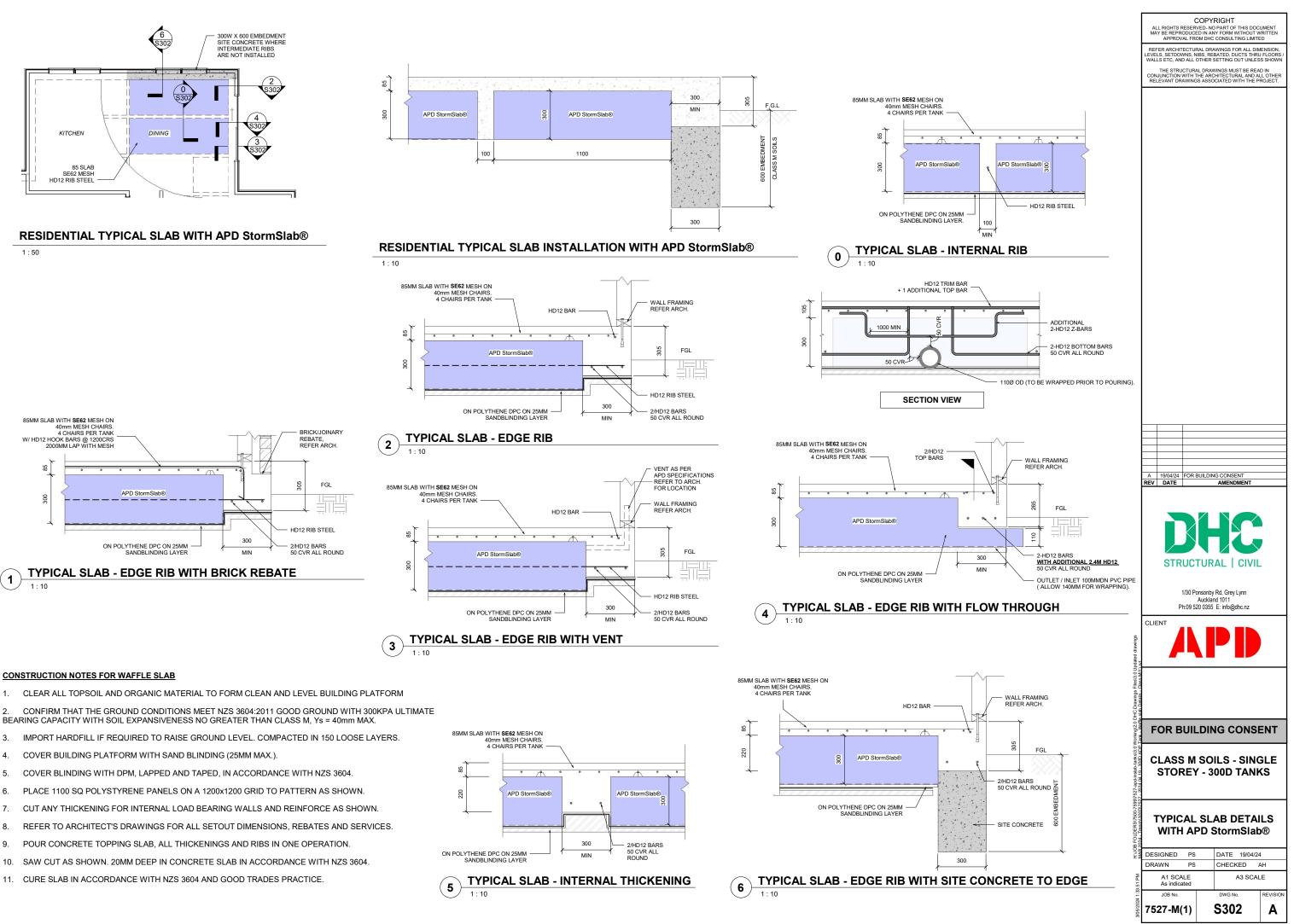
1. REFER TO ARCHITECT'S DRAWINGS FOR BOUNDARY LINE SURVEY INFORMATION 2. REFER TO ARCHITECTURAL DRAWINGS FOR SETOUT 3. REFER TO ARCHITECTURAL DRAWINGS FOR ALL TIMBER FRAMING 4. REFER BELOW FOR CONCRETE STRENGTH 5. CONTRACTOR TO CONFIRM LOCATION OF EXISTING SERVICES WITH ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION 6. FOR REBATES & NIBS LOCATIONS REFER ARCH 7. REFER ARCH FOR SITE RETAINING WALLS MAX UDL AND POINT LOADS AT PERIMETER FOOTING WALL: G = 4.43KN/M (BRICK VENEER) G = 1.08KN/M (WEATHER BOARD) G = 1.35KN/M Q = 0.75KN/M

> G_{SDL} = 0.25KPA Q = 2.5KPA $Q_{PL} = 12KN$

25MPA WITHIN SEASPRAY ZONE 30MPA WITHIN EXPOSURE CLASSIFICATION B2

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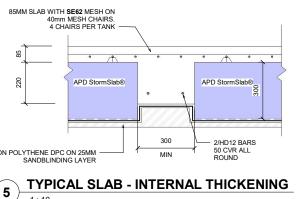


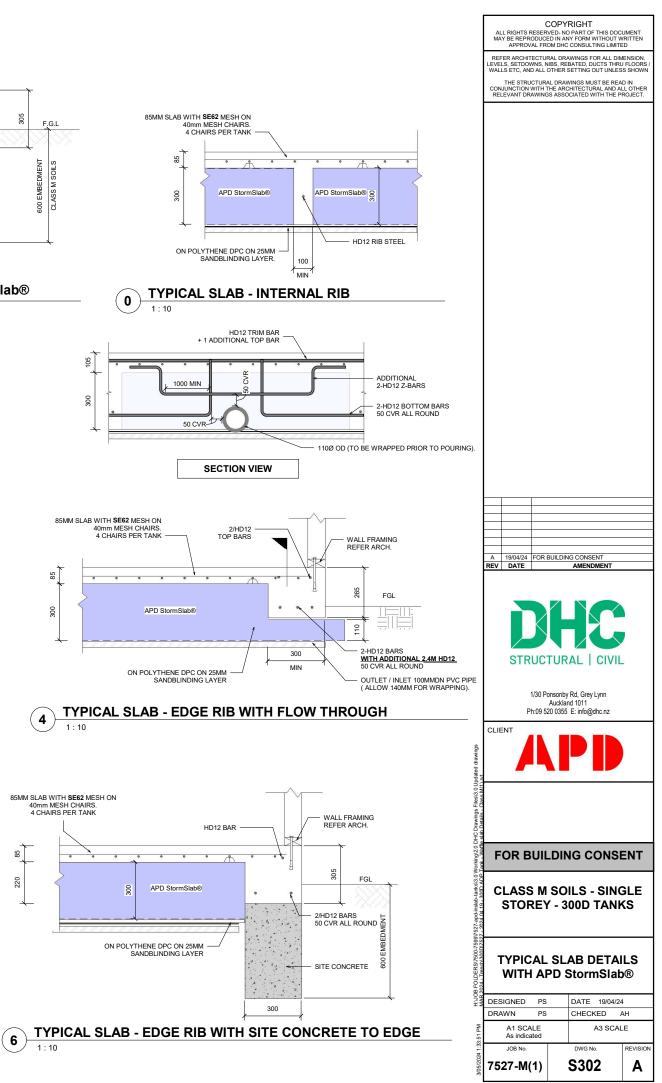
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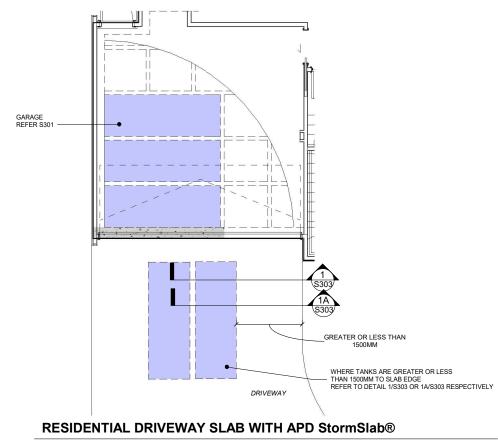
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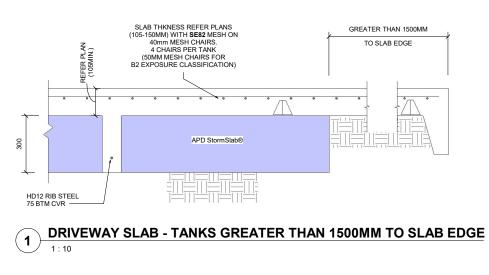
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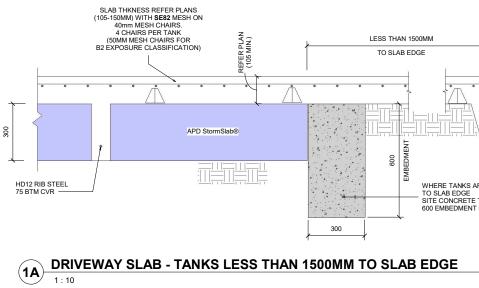
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- 6.
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- 10.
- 11. CURE SLAB IN ACCORDANCE WITH NZS 3604 AND GOOD TRADES PRACTICE



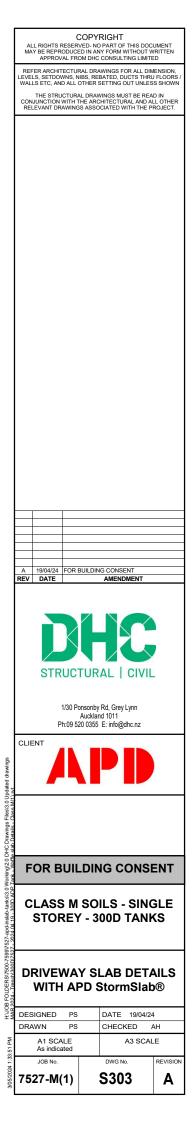








1 : 50



WHERE TANKS ARE LESS THAN 1500MM TO SLAB EDGE SITE CONCRETE TO 600 EMBEDMENT REQUIRED