

SITE PLAN
SCALE 1:NTS



BASIX Notes

Water

- 100,000L Rain Water Tank Connected to:
- All toilets in the development
 - The cold water tap that supplies each clothes washer in the development
 - At least one outdoor tap in the development
 - All hot water systems in the development
 - All indoor cold water taps in the development

Rain Water Tank to collect water from at least 165m² from the roof of the development.

Futures

- Showerheads - Minimum 3 Star Rating
 Toilet - Minimum 3 Star Rating
 Kitchen Taps - Minimum 3 Star Rating
 Bathroom Taps - Minimum 3 Star Rating

Thermal Comfort

See Section for Thermal Comfort Commitments

Energy

- MW - Gas Instantaneous (Rated 5 star)
 Cooling System - Living Area - No active cooling system
 - The Bedrooms - No active cooling system
 Heating System - Living Area - Wood Heater
 - The Bedrooms must not incorporate any heating system.

Ventilation Systems:

- 1 Bathroom - Individual Fan - not ducted (Manual Switch On/Off)
 Kitchen - Individual Fan - not ducted (Manual Switch On/Off)
 Laundry - Natural ventilation only

Other:

- Gas Cooktop & Gas Oven

A fixed outdoor clothes drying line must be installed as part of the development for each unit

Each refrigerator space in the development must be constructed so that it is well ventilated in each unit

A	JUNE 2022	G.D	ISSUED FOR APPROVAL
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REV	DATE	BY	DESCRIPTION
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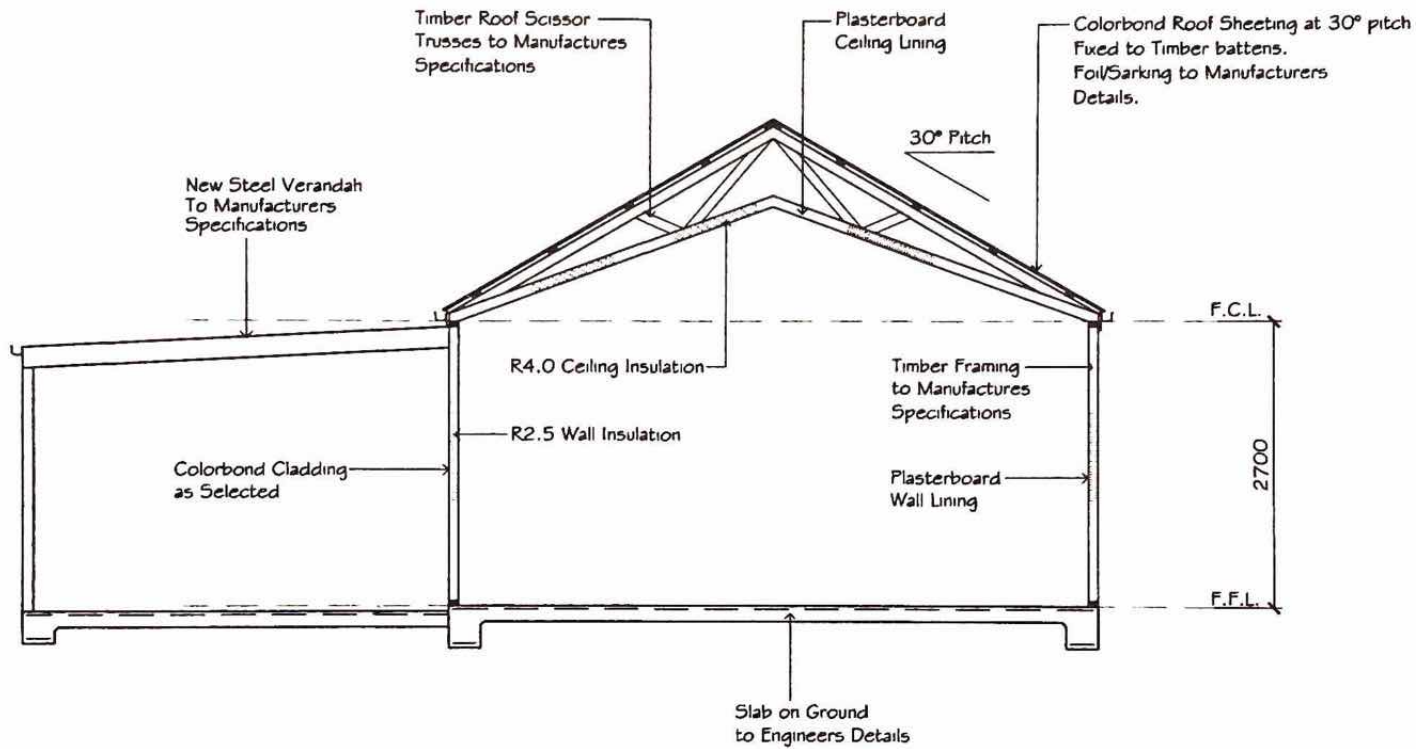
Giselle Denley
Drafting Services

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0417 898 228
53 F-8 Stacy Drive
Murrumbidgee NSW 2550

CLIENT:
AMANDA AND SAM LYNCH


TITLE:
**PROPOSED RESIDENCE
297 MOSSY ROCK LANE MONIVAE**

SCALE: 1:NTS	FILE: 3777-A01	DWG No:	REV
DRAWN: G.D	DATE: JUNE 2022	3777-A01	A
CKD: SL	DATE: JUNE 2022		

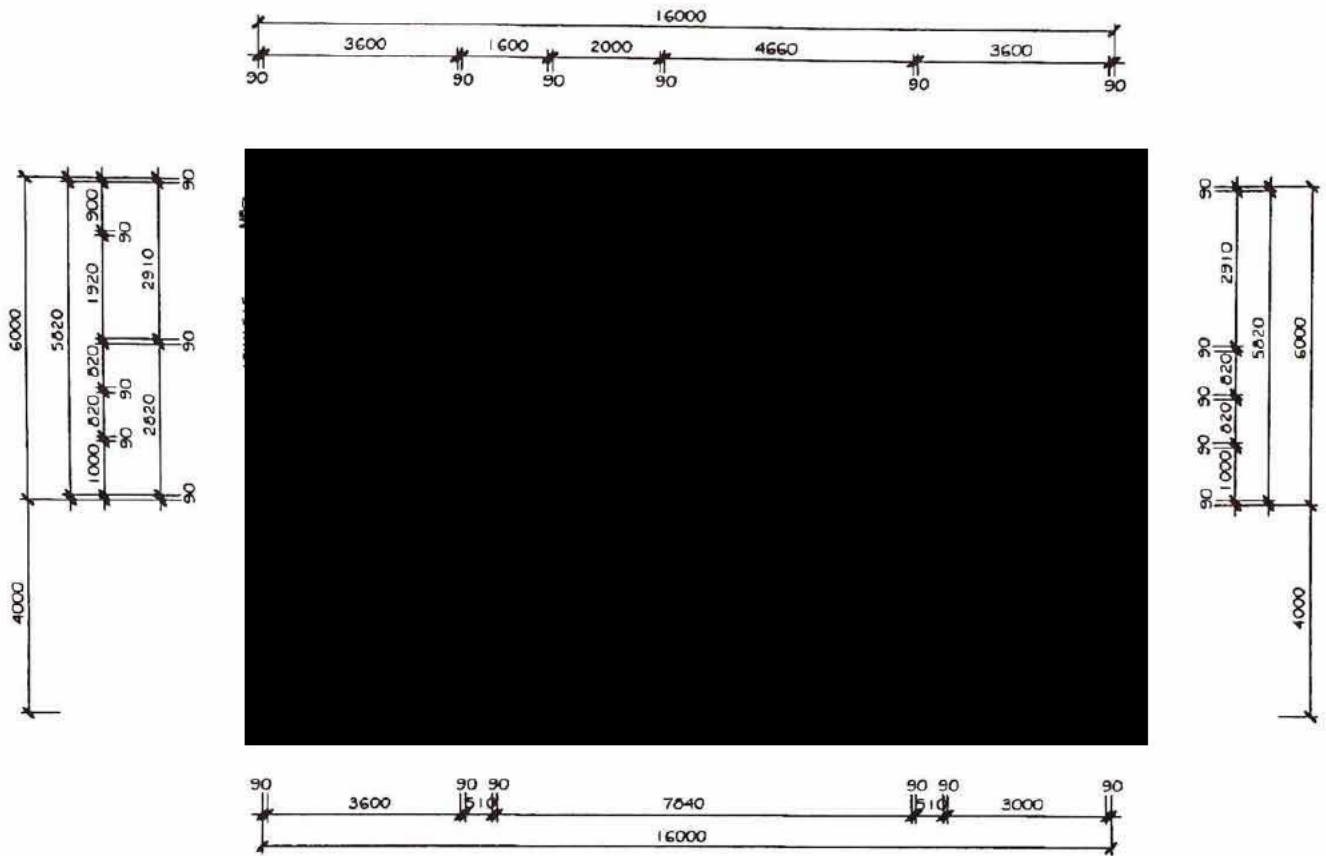


TYPICAL SECTION

SCALE 1:50


A	JUNE 2022	GD	ISSUED FOR APPROVAL
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CLIENT: AMANDA AND SAM LYNCH			
TITLE: PROPOSED RESIDENCE 297 MOSSY ROCK LANE MONIVAE			
SCALE: 1:50	FILE: 3777-A01	DWG No.	REV
DRAWN: GD	DATE: JUNE 2022	3777-A04	A
CED: SL	DATE: JUNE 2022		

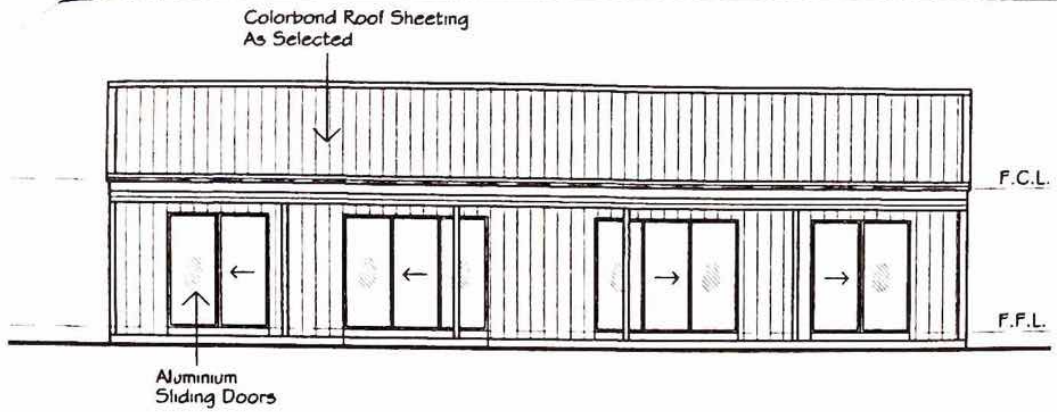
Floor Areas	
Living	= 96.00 m ²
Verandah	= 64.00 m ²
Total	= 160.00 m²



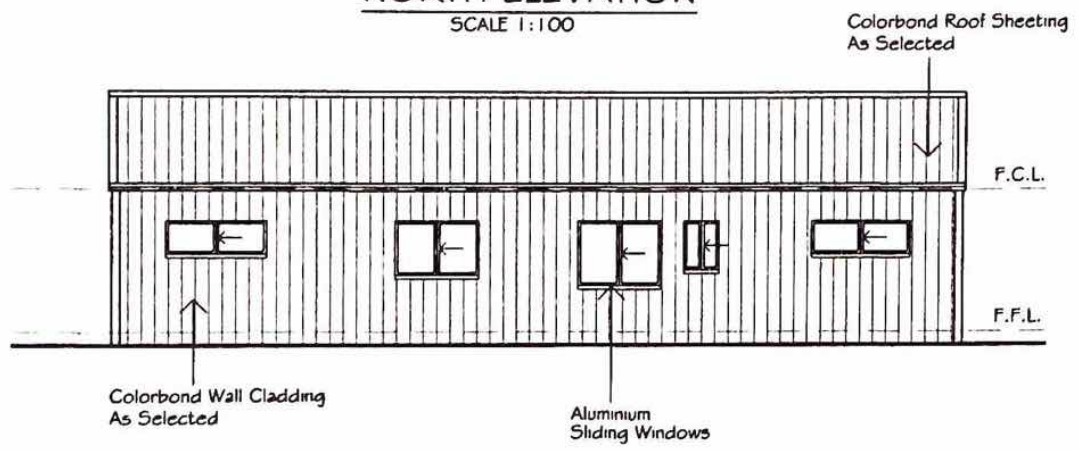
GROUND FLOOR PLAN
SCALE 1:100

REV	DATE	BY	DESCRIPTION
A	JUNE 2022	G.D	ISSUES FOR APPROVAL

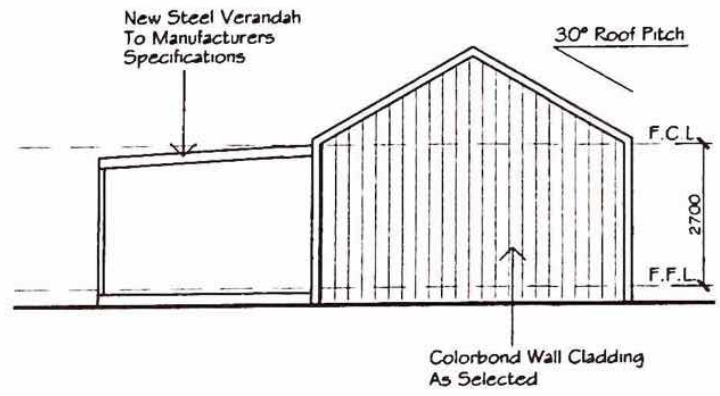
 <p>Giselle Denley Drafting Services</p> <p><small>giselle.denley@dagpond.com 0417 888 328 53 Hill Sany Drive Mudgee NSW 2850</small></p>	CLIENT:		
	AMANDA AND SAM LYNCH		
TITLE:	PROPOSED RESIDENCE 297 MOSSY ROCK LANE MONIVAE		
SCALE: 1:100	FILE: 3777-A01	DWG No:	REV
DRAWN: G.D	DATE: JUNE 2022	3777-A02	A
CHEK: S.L	DATE: JUNE 2022		



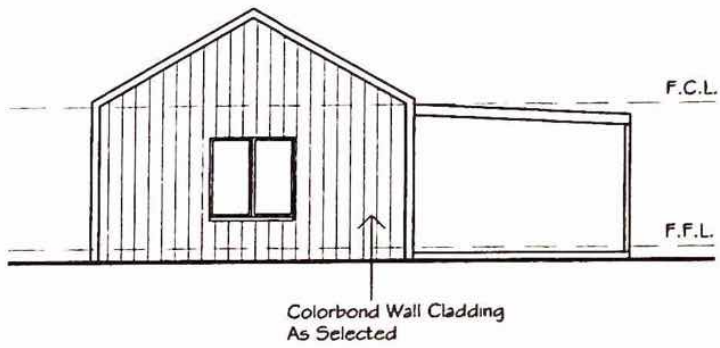
NORTH ELEVATION
SCALE 1:100



SOUTH ELEVATION
SCALE 1:100



WEST ELEVATION
SCALE 1:100

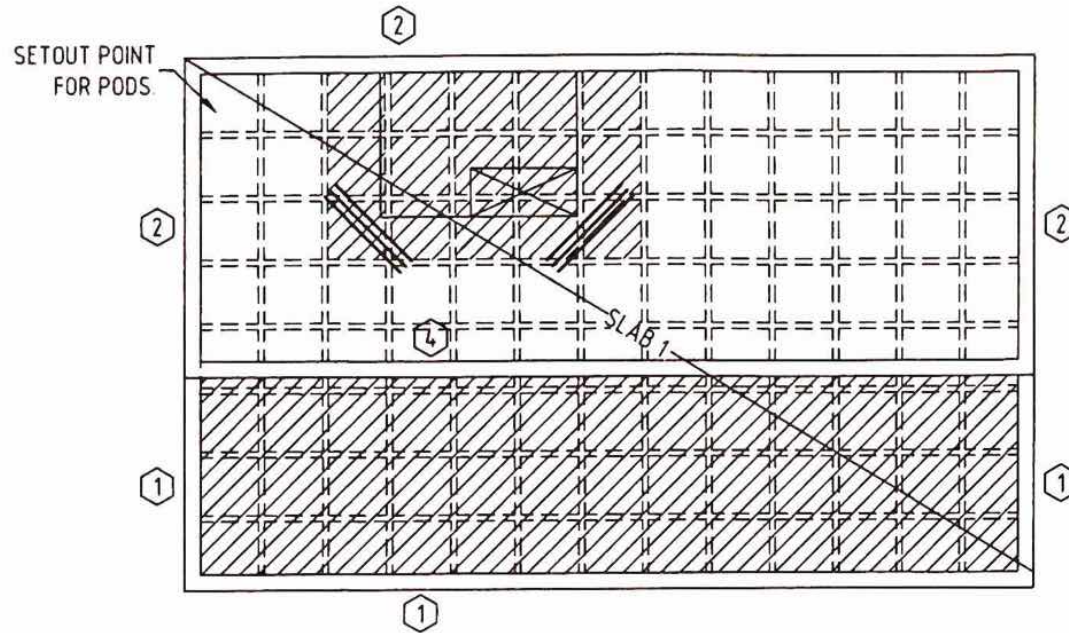


EAST ELEVATION
SCALE 1:100

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A	JUNE 2022	GD	ISSUED FOR APPROVAL

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CLIENT: AMANDA AND SAM LYNCH			
TITLE: PROPOSED RESIDENCE 297 MOSSY ROCK LANE MONIVAE			
SCALE: 1:100	FILE: 3777-A01	DWG No.	REV.
DRAWN: GD	DATE: JUNE 2022	3777-A03	A
CKD: SL	DATE: JUNE 2022		



SLAB AND FOOTINGS PLAN
SCALE = 1:100

NOTES:
ANY FALL OR STEP WITHIN SLAB SURFACE TO ARCHITECTS SPECIFICATION.

GEOTECHNICAL NOTES

1. THESE SLAB & FOOTING HAS BEEN DESIGNED FOR A CLASS "M" SITE AS DEFINED BY AS2870-2011, BASED UPON GEOTECHNICAL REPORT BY JADE ENVIRONMENTAL DATED DECEMBER 2018, REFERENCE 'ENV_1041'.
2. BARNSON PTY LTD DOES NOT ACCEPT ANY LIABILITY IN REGARDS TO EFFECTS ON THE DESIGN BASED ON INCORRECT SITE CLASSIFICATION OR SUB-SURFACE INFORMATION PROVIDED BY JADE ENVIRONMENTAL.

WAFFLE POD SLAB NOTES

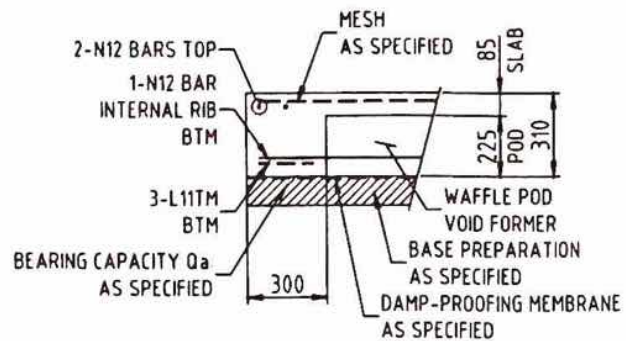
- A) SLAB 1
1. CONCRETE EXPOSURE CLASSIFICATION = A1 TO AS3600-2018
 2. 85mm THICK SLAB REINFORCED WITH ONE LAYER SL72 MESH ON TOP WITH 20mm COVER, BEAM BTM REINFORCEMENT AS SPECIFIED WITH 50mm COVER.
 3. CONCRETE IS TO BE GRADE N25 (25 MPa STRENGTH AT 28 DAYS)
- B) THIS PLAN SHALL BE READ IN CONJUNCTION WITH THE FOLLOWING REFERENCE DRAWINGS WHICH FORM PART OF THE PROJECT SPECIFICATION: G1020, G1021, G1022, G1023, G1024, G1025, G1026, G1027, G1028, 3777-S02.

TILE NOTES

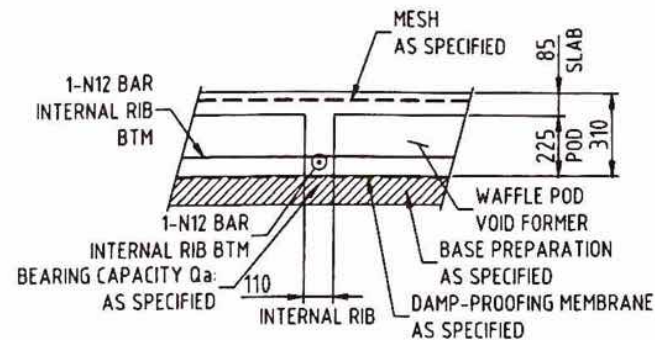
- TILE FLOOR AREAS >16sq.M. SHOULD BE PROVIDED WITH ONE OR MORE OF THE FOLLOWING,
1. SLAB MESH IN THAT PART SHALL BE SL92 OR ALTERNATIVELY AN EXTRA LAYER OF SLAB MESH PLACED.
 2. ALLOW ALL CONCRETE MINIMUM 90 DAYS TO CURE PRIOR TO FIXING OF FLOOR TILES.
 3. USE RUBBER BASED ADHESIVE FOR ALL FLOOR TILES.

CONCRETE MEMBER SCHEDULE	
MARK	DETAIL REFERENCE
①	M.31001a
②	M.31004a
③	M.31026a
④	M.31064a
REFER TO DRAWING 3777-S02 FOR BEAM DETAILS 1 to 4	

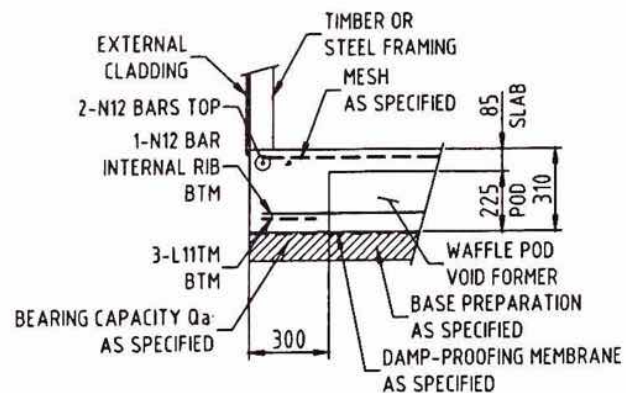
ISSUED FOR CONSTRUCTION



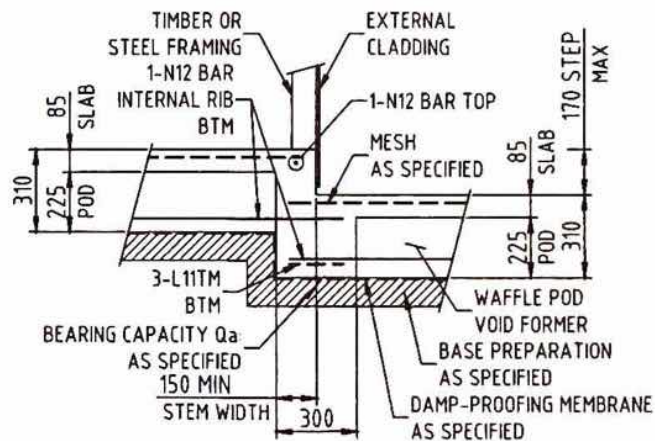
M.31001a
SCALE = 120



M.31026a
SCALE = 120



M.31004a
SCALE = 120



M.31064a
SCALE = 120

ISSUED FOR CONSTRUCTION

GENERAL

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER WORKING DRAWINGS AND SPECIFICATIONS RELEVANT TO THIS PROJECT. ANY DISCREPANCIES SHALL BE REFERRED TO BARNSON PTY LTD FOR A DECISION PRIOR TO PROCEEDING
- ANY NOTES OR DETAILS APPEARING IN THE "PROJECT SPECIFIC" DRAWING SET ARE TO TAKE PRECEDENCE OVER ANY NOTES OR DETAILS APPEARING IN THE "GENERIC" DRAWING SET.
- DO NOT SCALE FROM THESE DRAWINGS
- MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH RELEVANT SAA CODES AND LOCAL AUTHORITY REGULATIONS.
- THE CONTRACTOR SHALL OBTAIN A COPY OF THE SITE GEOTECHNICAL REPORT PRIOR TO CONSTRUCTION, TO FAMILIARISE HIMSELF WITH THE EXPECTED NATURALLY OCCURRING FOUNDATION SOILS.
- IF SOIL IS ENCOUNTERED DURING CONSTRUCTION THAT IS DIFFERENT TO THAT REFERRED TO IN THE GEOTECHNICAL REPORT, BARNSON PTY LTD SHALL BE CONTACTED IMMEDIATELY PRIOR TO FURTHER WORK TAKING PLACE.
- DURING CONSTRUCTION, THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION, AND NO PART SHALL BE OVERSTRESSED.
- ALL CARE SHOULD BE TAKEN TO ENSURE THAT ADEQUATE SITE DRAINAGE IS PROVIDED TO ENSURE THAT WATER IS DIVERTED AWAY FROM THE BUILDING DURING AND AFTER CONSTRUCTION.
- ALL FORMWORK SHALL BE IN ACCORDANCE WITH AS3610-1995.
- PREPOUR INSPECTIONS FOR ALL FOOTINGS AND SLABS SHALL BE CARRIED OUT BY BARNSON PTY LTD OR THE CERTIFYING AUTHORITY. 24 HOURS NOTICE FOR INSPECTIONS IS REQUIRED. NO CONCRETE IS TO BE POURED WITHOUT ATTAINING APPROVAL.
- FOR SLAB ON GROUND, FINISHED SLAB HEIGHTS ABOVE EXTERNAL FINISHED SURFACES MUST NOT BE LESS THAN:
 - 150mm ABOVE FINISHED GROUND LEVEL
 - 100mm ABOVE SANDY, WELL DRAINED AREAS
 - 50mm ABOVE EXTERNAL SEALED AREAS THAT HAVE A SLOPE OF NOT LESS THAN 50mm OVER THE FIRST 1m FROM THE BUILDING
- SLABS & FOOTINGS HAVE BEEN DESIGNED BASED ON STANDARD DESIGNS CONTAINED IN SECTION 3 AND ENGINEERING PRINCIPALS CONTAINED IN SECTION 4 OF AS2870-2011, AND ENGINEERING PRINCIPALS FROM AS3600-2009
- DIMENSIONS GIVEN FOR BEAMS AND STRIP FOOTINGS ARE THE MINIMUM REQUIRED AS PER DESIGN PRINCIPALS NOTED ABOVE. IF THERE ARE SITE SPECIFIC REQUIREMENTS TO WIDEN, OR DEEPEN BEAMS OR STRIP FOOTINGS, IT SHALL BE PERFORMED AS FOLLOWS:
 - WHERE STRIP FOOTINGS ARE WIDER THAN THAT SPECIFIED, AN EXTRA BOTTOM BAR OR EQUIVALENT OF THE SAME BAR SIZE IS REQUIRED FOR EACH 100mm ADDITIONAL WIDTH.
 - WHERE STRIP FOOTINGS OR SLAB BEAMS ARE DEEPER THAN THAT SPECIFIED, THE BOTTOM REINFORCEMENT SPECIFIED IN AS2870 FOR THE GREATER BEAM OR STRIP FOOTING DEPTH IS TO BE USED.
 - WHERE ADJUSTMENTS IN WIDTH FOR WAFFLE POD SLAB BEAMS REINFORCED WITH BARS ARE REQUIRED, THIS SHALL BE PERFORMED IN ACCORDANCE WITH REINFORCEMENT NOTE 11 ON GENERIC DRAWING G1020.
- SITE MAINTENANCE IS THE RESPONSIBILITY OF THE OWNER. CSIRO'S - FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE: A HOMEOWNERS GUIDE - BUILDING TECHNOLOGY FILE 18, SHOULD BE REFERRED TO FOR ONGOING SITE MAINTENANCE REQUIREMENTS.

EXCAVATION

- TOPSOIL CONTAINING GRASS ROOTS OR VEGETATION SHALL BE REMOVED FROM THE FOUNDATION AREA. IT SHALL THEN BE PROOF ROLLED PRIOR TO FILLING.
- FOOTING EXCAVATIONS MUST BE FREE OF LOOSE EARTH, TREE ROOTS, MUD OR DEBRIS IMMEDIATELY BEFORE POURING CONCRETE.
- EXCAVATION FOR FOOTINGS, INCLUDING THICKENINGS FOR SLABS AND PADS MUST BE CLEAN CUT WITH VERTICAL SIDES, WHEREVER POSSIBLE.
- FOR EXCAVATION REQUIREMENTS ON SLOPING SITES WHERE STEPPED BEAMS OR STEPPED STRIP FOOTINGS ARE TO BE USED, PLEASE REFER GENERIC DRAWING G1022.
- BARNSON PTY LTD SHOULD BE CONSULTED BEFORE COMMENCING ANY EXCAVATIONS NEAR THE EDGE OF A BUILDING.
- WHERE PROPOSED FOOTINGS ARE NEAR EXISTING BUILDINGS OR SERVICES, BARNSON PTY LTD MUST BE CONTACTED AS DESIGN CHANGES MAY BE NECESSARY.
- FOR ALLOWABLE EMBANKMENTS, FILL & CUT TYPE EXCAVATIONS, PLEASE REFER GENERIC DRAWING G1026. TO BE READ IN CONJUNCTION WITH SECTION 6 OF AS2870-2011, AND BCA VOLUME 2, PART 3.1.1 FOR ADDITIONAL INFORMATION.

BASE PREPARATION - FILL

- FILLING USED IN THE CONSTRUCTION OF A SLAB, EXCEPT WHERE THE SLAB IS SUSPENDED, SHALL CONSIST OF CONTROLLED FILL AS FOLLOWS:

CONTROLLED FILL:

 - MINIMUM 100mm DEEP MAXIMUM 300mm DEEP UNDER PERIMETER FOOTINGS. IT SHALL BE WELL COMPACTED IN 150mm LAYERS BY A MECHANICAL ROLLER TO A MINIMUM 95% STANDARD COMPACTION FOR A SINGLE STORY DWELLING, AND 98% STANDARD COMPACTION FOR A DOUBLE STORY DWELLING. FILL SHALL BE OF LESS REACTIVITY THAN NATURAL SOIL.
- FILL WITH A GREATER DEPTH THAN THAT SPECIFIED ABOVE SHALL BE INSTALLED AND CERTIFIED BY A NATA ACCREDITED LABORATORY IN ACCORDANCE WITH AS3798-2007, LEVEL 2.
- FILL SHALL BE EXTENDED PAST THE EDGE OF THE RESIDENCE AND SHALL BE RETAINED OR BATTERED BY A SLOPE AS SPECIFIED ON DRAWING G1025 OF THE GENERIC DRAWING SET. FOR FILLING REQUIREMENTS IN RELATION TO EDGE BEAMS, PLEASE REFER GENERIC DRAWING G1025.

BASE PREPARATION - FOUNDATIONS

- FOUNDATION MATERIAL, WHETHER NATURALLY OCCURRING OR FILL, SHALL HAVE A MINIMUM UNIFORM ALLOWABLE BEARING CAPACITY (Qa) OF 100 kPa
- ALL TESTING TO BE UNDERTAKEN BY A NATA REGISTERED LABORATORY.
- THE ATTACHED PROJECT SPECIFIC RESIDENTIAL FOOTING DESIGN, HAS BEEN PREPARED BASED ON A SITE CLASSIFICATION CARRIED OUT IN ACCORDANCE WITH AS2870-2011. REFER PROJECT SPECIFIC PLAN FOR METHOD USED.
- INTERNAL BEAMS/RIBS AND SLAB PANELS SHALL BE FOUNDED ON CONTROLLED OR ROLLED FILL.
- ALL EDGE BEAMS SHALL BE FOUNDED IN NATURAL SOIL OR CONTROLLED FILL, UNLESS SUPPORTED BY PIERS.

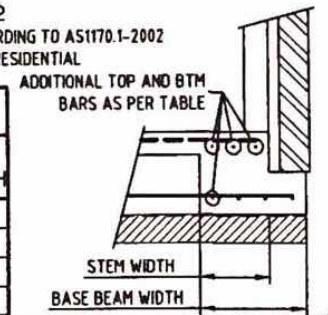
DAMP-PROOFING MEMBRANE

- A DAMP-PROOFING MEMBRANE CONSISTING OF A 0.2mm NOMINAL THICKNESS POLYETHYLENE FILM, SHALL BE PLACED UNDER ALL SLABS & BEAMS AND EXTEND TO FINISH AT GROUND LEVEL TO THE SLAB PERIMETER U.N.O
- IT SHALL BE HIGH IMPACT RESISTANT IN ACCORD WITH CLAUSES 5.3.3.2 AND 5.3.3.3 OF AS2870-2011, AND BE BRANDED CONTINUOUSLY "AS2870 CONCRETE UNDERLAY, 0.2mm HIGH IMPACT RESISTANCE"
- IT SHALL BE INSTALLED WITH MIN 200mm LAPS AT ALL JOINTS, AND TAPED OR SEALED WITH A CLOSE FITTING SLEEVE AROUND SERVICE PENETRATIONS.

REINFORCEMENT

- ALL REINFORCEMENT SHALL BE IN ACCORDANCE WITH AS/NZS 4671-2001.
- REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY, AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- REINFORCEMENT DESIGNATIONS AS FOLLOWS:
 - N - GRADE 500N HS DEFORMED BAR
 - R - GRADE 250R HOT ROLLED BAR
 - SL - GRADE 500L SQUARE MESH
 - TM - GRADE 500L TRENCH MESH
- FOR LAPPING JOINTS OF SLAB FABRIC, PLEASE REFER DRAWING G1022 OF THE GENERIC DRAWING SET FOR DETAILS.
- TRENCH MESH SHALL BE SPLICED WHERE NECESSARY BY A LAP OF 500mm.
- REINFORCEMENT BARS TO BE LAPPED AS FOLLOWS:
 - MESH-2 OUTER BARS OVERLAPPED WITH 2 OUTER BARS-20mm
 - N12 BARS = 500mm MIN
 - N16 BARS = 700mm MIN
- ALL REINFORCEMENT IS TO BE ADEQUATELY SUPPORTED IN ITS REQUIRED POSITION. SUPPORT CHAIRS ARE TO BE AT 800mm MAX CENTRES, BOTH DIRECTIONS.
- SERVICE PENETRATIONS SHALL BE APPROVED BY BARNSON PTY LTD PRIOR TO POURING. ALL SERVICES THAT PENETRATE CONCRETE MEMBERS SHALL BE LAGGED OR SLEEVED. PLEASE REFER GENERIC DRAWING G1023 FOR DETAILS.
- NO CHASES OR HOLES ARE TO BE MADE IN CONCRETE MEMBERS U.N.O. WITHOUT THE APPROVAL OF BARNSON PTY LTD.
- PLEASE REFER GENERIC DRAWING G1022 FOR REINFORCEMENT REQUIREMENTS ON SLOPING SITES WHERE STEPPED BEAMS OR STEPPED STRIP FOOTINGS ARE TO BE USED, AND FOR WHERE "L" AND "TEE" INTERSECTIONS OF BEAMS OCCUR.
- WHERE THERE ARE SITE SPECIFIC REQUIREMENTS TO WIDEN SLAB BEAMS OR STEM WIDTHS, ADDITIONAL REINFORCEMENT TO THAT SHOWN IN THE DETAILS SHALL BE PROVIDED TOP AND BTM, ACCORDING TO THE TABLE AND DIAGRAMS BELOW. BAR SIZE IS TO MATCH THE EXISTING SPECIFIED TOP AND BTM BAR SIZE SHOWN IN THE DETAILS.

STEM WIDTH OR BASE BEAM WIDTH (mm)	QTY TOP REINFORCEMENT BARS FOR STEM WIDTH	QTY BTM REINFORCEMENT BARS FOR BASE BEAM WIDTH
110-150	0 STD, 1 OVER PIERS	1
151-220	1	2
221-330	2	3
331-440	3	4



CONCRETE

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600-2009, FORMWORK TO AS3610-1995
- CONCRETE SHALL NOT BE POURED WHEN THE AIR TEMPERATURE IS GREATER THAN 38 DEGREES, OR LESS THAN 5 DEGREES CELSIUS WITHOUT APPROVAL FROM BARNSON PTY LTD.
- CONCRETE SHALL BE GRADE N20 (20MPa STRENGTH AT 28 DAYS), HAVE A 20mm NOMINAL AGGREGATE SIZE, AND HAVE A NOMINAL 100mm SLUMP.
- NO ON SITE WATER IS TO BE ADDED TO THE CONCRETE WITHOUT PERMISSION OF BARNSON PTY LTD.
- ALL CONCRETE IS TO BE VIBRATED
- CONCRETE IS TO BE CURED A MIN OF 7 DAYS
- COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:
 - WAFFLE POD SLAB PANELS = 20mm (TOP)
 - RAFT SLAB PANELS = 30mm (TOP)
 - WAFFLE POD RIBS = 30mm (SIDE)
 - WAFFLE AND RAFT SLAB BEAMS = 50mm (BOTTOM & SIDE)
 - STRIP & PAD FOOTINGS = 50mm (ALL SIDES)

MASONRY

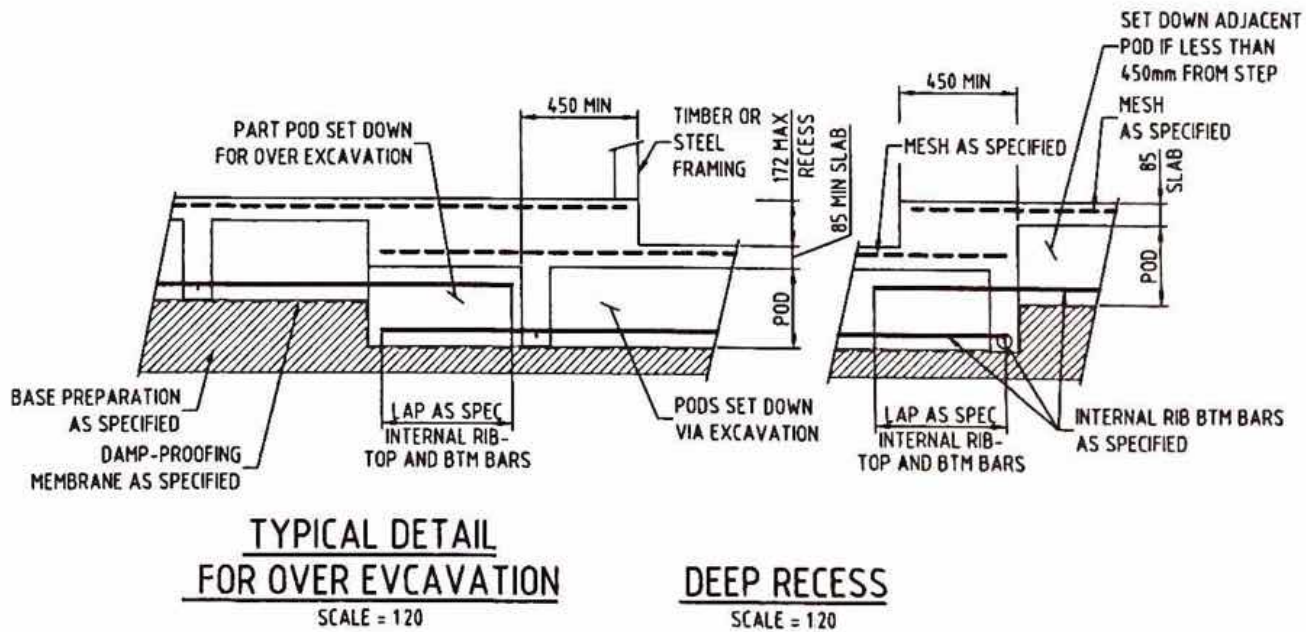
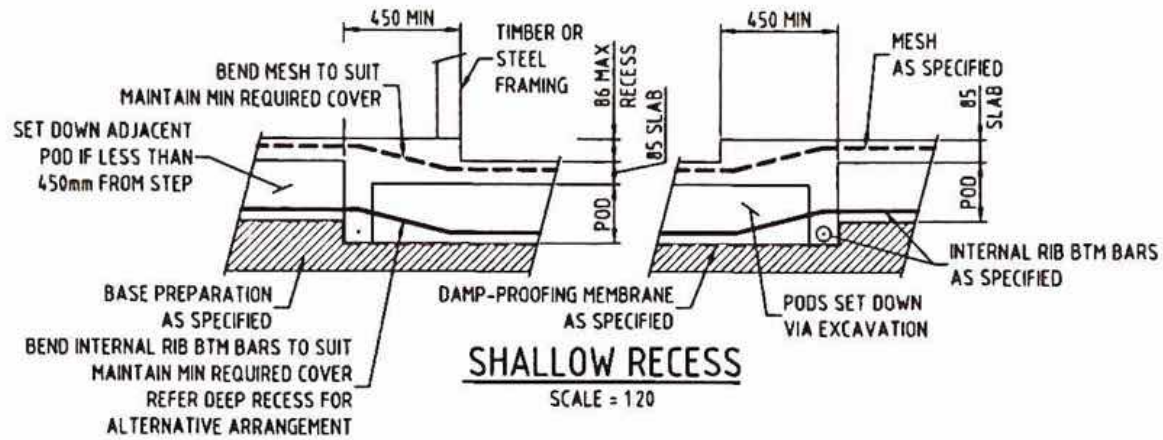
- ALL WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH AS3700-2001.
- MASONRY SHALL NOT BE CONSTRUCTED ON CONCRETE ELEMENTS WITHIN 14 DAYS OF CASTING WITHOUT THE APPROVAL OF BARNSON PTY LTD.
- ARTICULATION OF MASONRY SHALL BE IN ACCORDANCE WITH TECHNICAL NOTE 61 BY THE CEMENT, CONCRETE & AGGREGATES AUSTRALIA. www.concrete.net.au

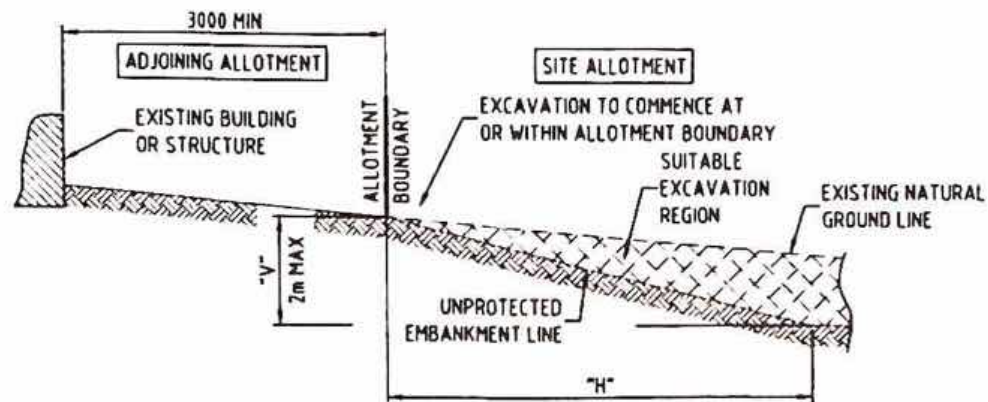
SITES WITH SALINE AND SULFATE SOILS

- IN AREAS ADVISED BY THE LOCAL AUTHORITY TO HAVE AGGRESSIVE SOILS THE FOLLOWING MINIMUM REQUIREMENTS ARE TO TAKE PRECEDENCE OVER ANY NOTATION WITHIN THE DRAWING SET:
 - THE DAMP-PROOFING MEMBRANE SHALL CONSIST OF A SUITABLE 0.5mm THICK DAMP-PROOFING MATERIAL COMPLYING WITH AS/NZS 2904 AND LAPPED A MINIMUM OF 75mm VERTICALLY OR HORIZONTALLY. DAMP-PROOFING MEMBRANE IS TO BE INSTALLED AND TERMINATED AT FINISHED GROUND OR PAVING LEVEL.
 - CONCRETE IS TO BE MINIMUM GRADE N32 (32 MPa STRENGTH AT 28 DAYS AGE). ACTUAL CONCRETE GRADE TO BE UTILISED ON SITE IS TO BE IN ACCORDANCE WITH TABLE 5.3 OF AS2870-2011. TABLE 5.3 IS TO BE READ IN CONJUNCTION WITH TABLES 5.1 AND 5.2 OF AS2870-2011 FOR SITE EXPOSURE CLASS FOR SALINE OR SULFATE SOILS.

LOADING NOTES

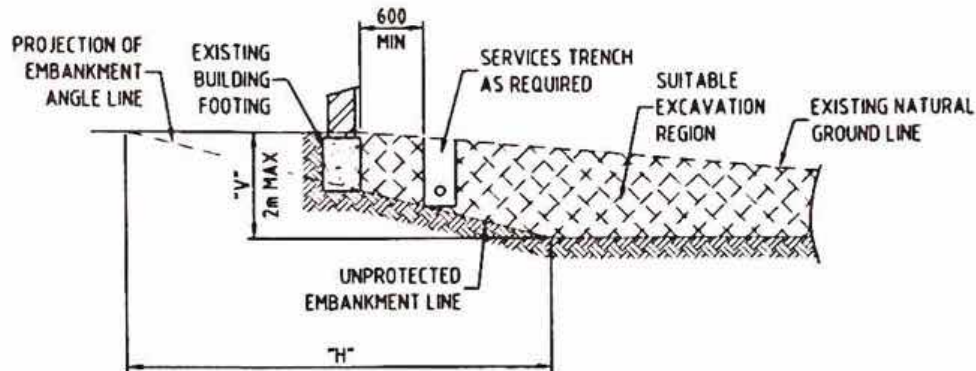
- ALL LOADS ARE ACCORDING TO AS1170.1-2002
- LIVE LOADS: 1.5 kPa RESIDENTIAL





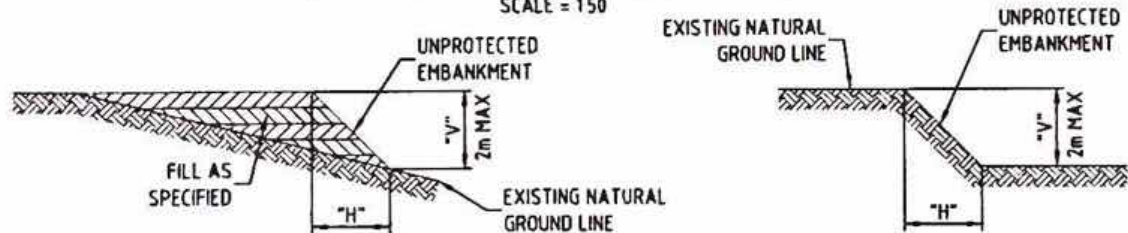
**PERMANENT OR TEMPORARY EXCAVATION WORKS
ADJACENT ADJOINING ALLOTMENT**

SCALE = 150



**TEMPORARY EXCAVATION WORKS
ADJACENT EXISTING BUILDINGS**

SCALE = 150



FILL EMBANKMENT DETAIL

SCALE = 150

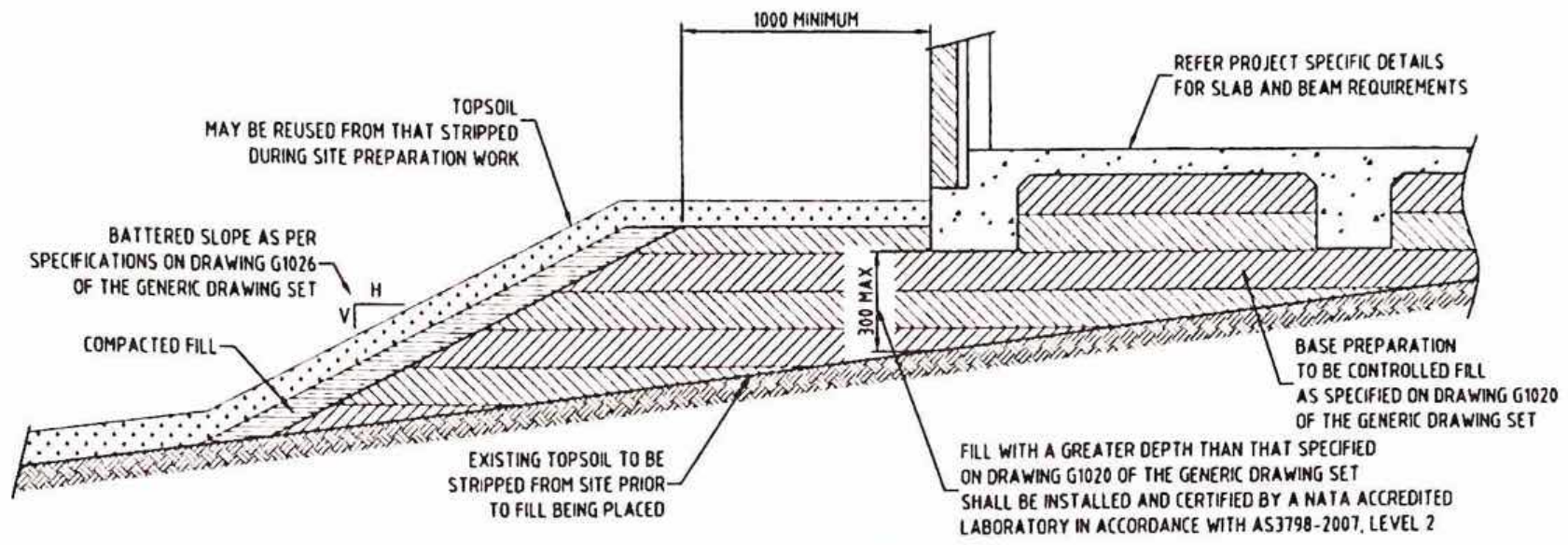
CUT EMBANKMENT DETAIL

SCALE = 150

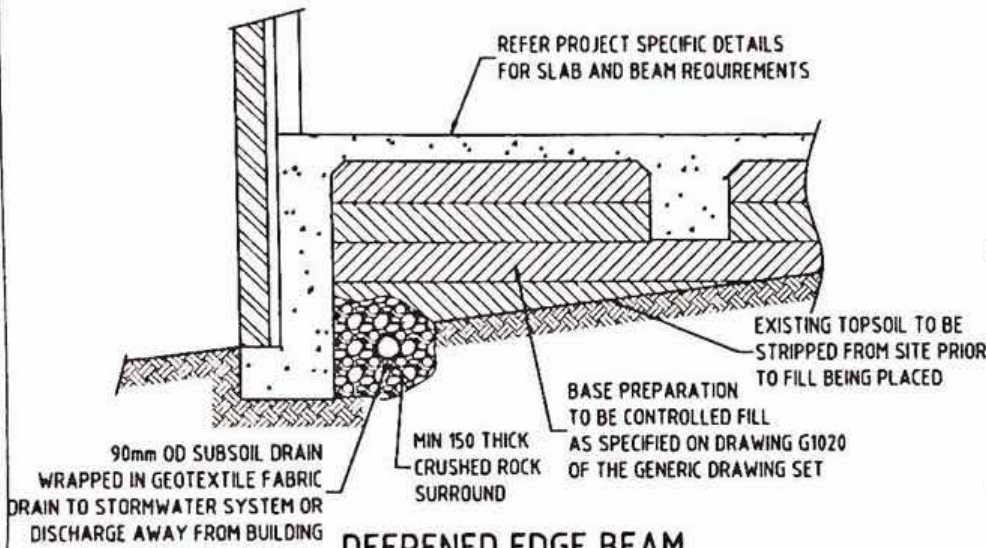
EXCAVATION NOTES

- 1 ANY PERMANENT VERTICAL OR NEAR VERTICAL EXCAVATION WITHIN 2m OF A BUILDING, AND DEEPER THAN 600mm SHALL BE BATTERED OR RETAINED
- 2 THE GRADIENT OF UNPROTECTED EMBANKMENT FOR EXCAVATION INCLUDING BOTH CUT AND FILL SHALL BE ASCERTAINED FROM THE "UNPROTECTED EMBANKMENTS" TABLE
- 3 EXCAVATION ADJACENT EXISTING BUILDINGS
 - A) EXCAVATION WORK FOR FOOTINGS, DRAINAGE TRENCHES OR OTHER SIMILAR WORKS ARE TEMPORARY
 - B) ELEMENTS REQUIRED SHOULD BE INSTALLED & CONSTRUCTED AS SOON AS PRACTICABLE AFTER EXPOSING THE EXISTING BUILDING FOOTING
 - C) THE EXISTING FOOTING SHOULD NOT REMAIN EXPOSED AFTER THE COMPLETION OF WORKS
- 4 RETAINING WALLS OR OTHER TYPES OF SOIL RETAINING METHODS MUST BE INSTALLED WHERE
 - A) THE GRADIENT RATIO IS GREATER THAN THAT DESCRIBED IN THE "UNPROTECTED EMBANKMENTS" TABLE
 - B) SITE SOIL CLASSIFICATION OR DESCRIPTION IS NOT DESCRIBED IN THE "UNPROTECTED EMBANKMENTS" TABLE
- 5 FILL SHALL BE PLACED AS FOLLOWS
 - A) THE GRADIENT RATIO OF FILL DETAILS SHALL BE ASCERTAINED FROM THE "UNPROTECTED EMBANKMENTS" TABLE
 - B) GENERAL FILL SHALL BE PLACED AND COMPACTED IN LAYERS WITH A VIBRATING PLATE OR SIMILAR COMPACTION EQUIPMENT TO ATTAIN STABILITY
 - C) WHERE FILL IS TO BE USED TO SUPPORT FOOTINGS OR SLABS, IT SHALL BE CONTROLLED FILL AS DESCRIBED IN GENERIC DRAWING G1020
- 6 EMBANKMENTS THAT ARE TO BE LEFT EXPOSED AT THE END OF CONSTRUCTION WORKS MUST BE STABILISED BY VEGETATION OR SIMILAR WORKS TO PREVENT SOIL EROSION

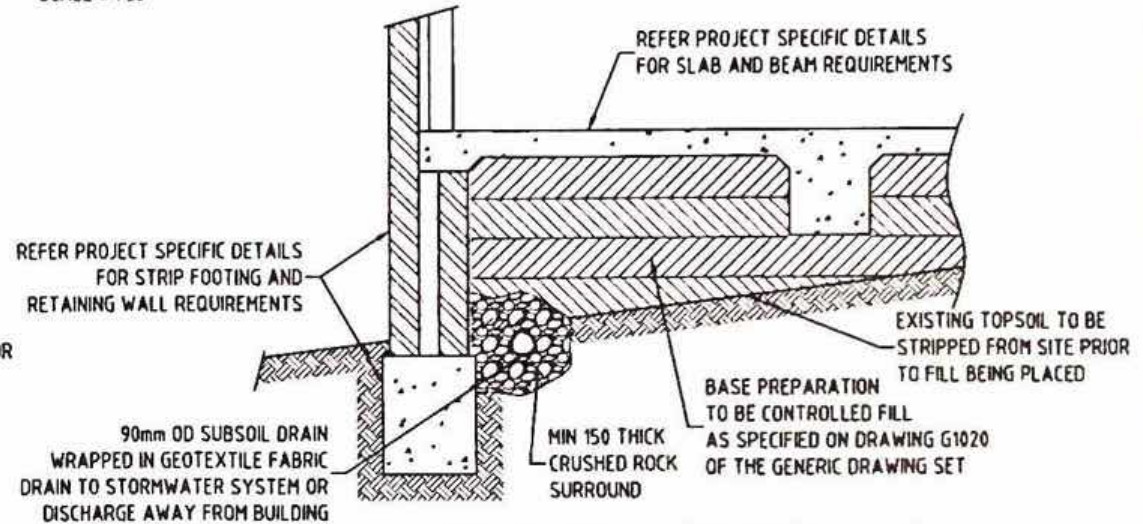
UNPROTECTED EMBANKMENTS		
SITE CLASSIFICATION OR NATURAL SOIL MATERIAL DESCRIPTION	COMPACTED FILL	CUT
	V H GRADIENT RATIO	V H GRADIENT RATIO
CLASS "A" - STABLE ROCK	2:3	8:1
CLASS "A" - SAND	1:2	1:2
CLASS "S", "M", "M-D" - FIRM CLAY	1:2	1:1
CLASS "S", "M", "M-D" - SOFT CLAY	NOT SUITABLE	2:3
CLASS "H1", "H1-D", "H2", "H2-D", "P" - SOFT SOILS	NOT SUITABLE	NOT SUITABLE
CLASS "P" - SILT	1:4	1:4



**SLAB EDGE & INTERNAL BEAMS
FOUNDED IN CONTROLLED FILL**
SCALE = 120



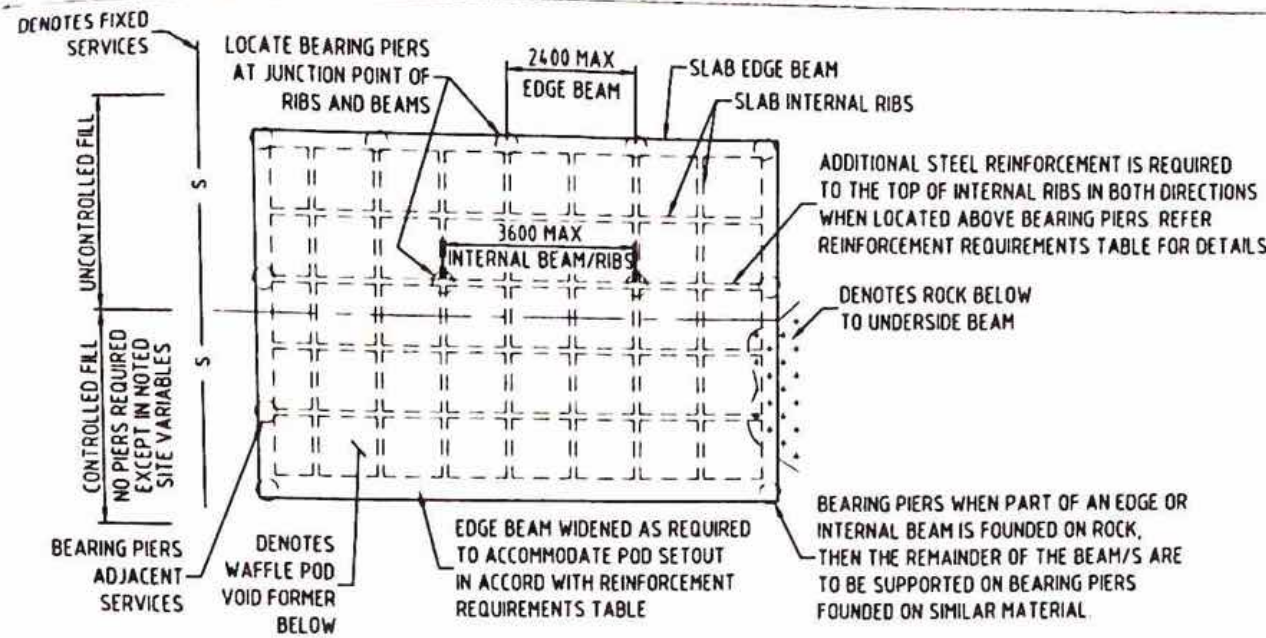
**DEEPEDED EDGE BEAM
FOUNDED IN NATURAL SOIL**
SCALE = 120



**RETAINING WALL WITH INFILL SLAB
FOUNDED IN NATURAL SOIL**
SCALE = 120

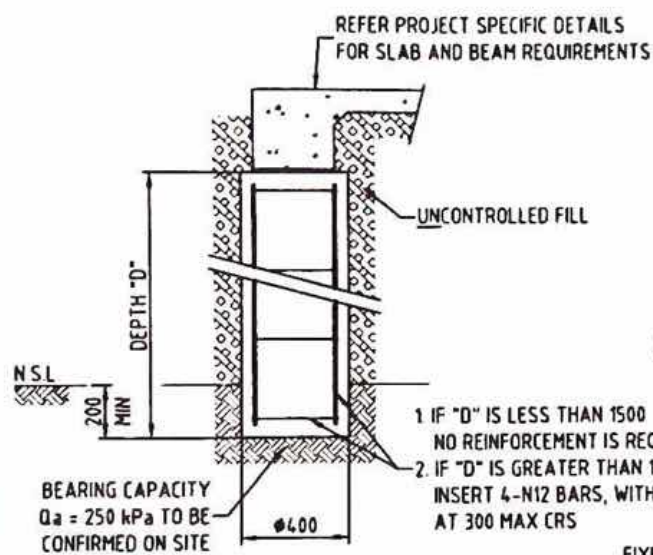
WAFFLE POD SLAB PIERING REQUIREMENTS

- BEARING PIERS TO BE UTILISED IN THE FOLLOWING SITUATIONS
 - EDGE BEAMS & LOAD BEARING INTERNAL WALLS ARE FOUNDED ON UNCONTROLLED FILL
 - ANY INTERNAL BEAMS/RIBS ARE LOCATED ON GREATER THAN 300mm OF UNCONTROLLED FILL
 - WHEN THE FOUNDATION MATERIAL HAS AN ALLOWABLE BEARING CAPACITY Q_a OF LESS THAN THAT SPECIFIED IN GEOTECHNICAL NOTES
 - WHEN PART OF AN EDGE OR INTERNAL BEAM IS FOUNDED ON ROCK, THEN THE REMAINDER OF THE BEAM/S ARE TO BE SUPPORTED ON BEARING PIERS FOUNDED ON SIMILAR MATERIAL
 - WHEN PART OF AN EDGE BEAM IS FOUNDED ADJACENT EXISTING FIXED SERVICES OR AN EASEMENT
- BEARING PIERS TO BE POSITIONED FROM UNDERSIDE OF BEAM/RIB TO BELOW NATURAL GROUND LEVEL
- BEARING PIERS TO BE $\phi 400$ MASS CONCRETE UP TO 1500mm DEEP DEEPER PIERS SHALL BE $\phi 400$ REINFORCED WITH 4-N12 BARS VERTICAL, WITH R6 LIGS HORIZONTAL AT 300 MAX CRS
- BEARING PIER POSITIONING SHALL BE AS PER THE MINIMUM SHOWN ON DRAWINGS, OR AS PER THE FOLLOWING MINIMUM SPACING REQUIREMENTS
 - # EDGE BEAM 2400mm MAX CRS
 - # INTERNAL RIBS 3600mm MAX CRS
- ADDITIONAL STEEL REINFORCEMENT IS REQUIRED TO THE TOP OF INTERNAL RIBS WHEN LOCATED ABOVE BEARING PIERS REFER REINFORCEMENT REQUIREMENTS TABLE FOR DETAILS



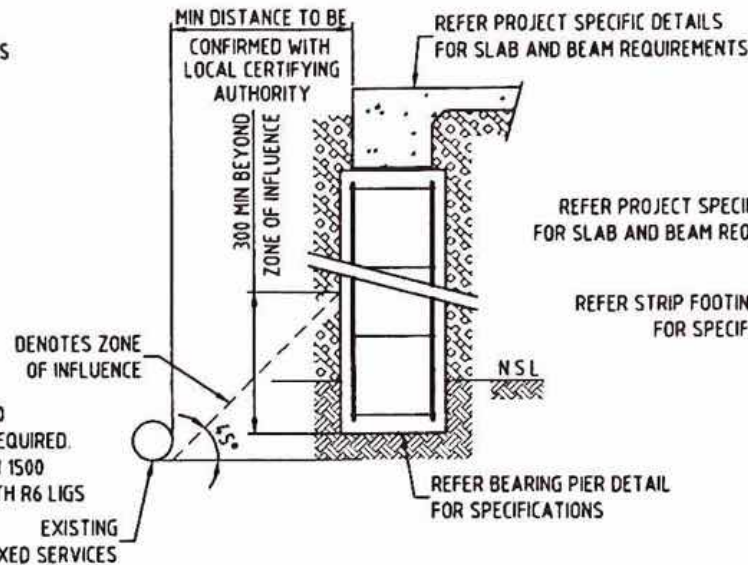
WAFFLE POD SLAB BEARING PIER REQUIREMENTS DIAGRAM

SCALE = 1:100



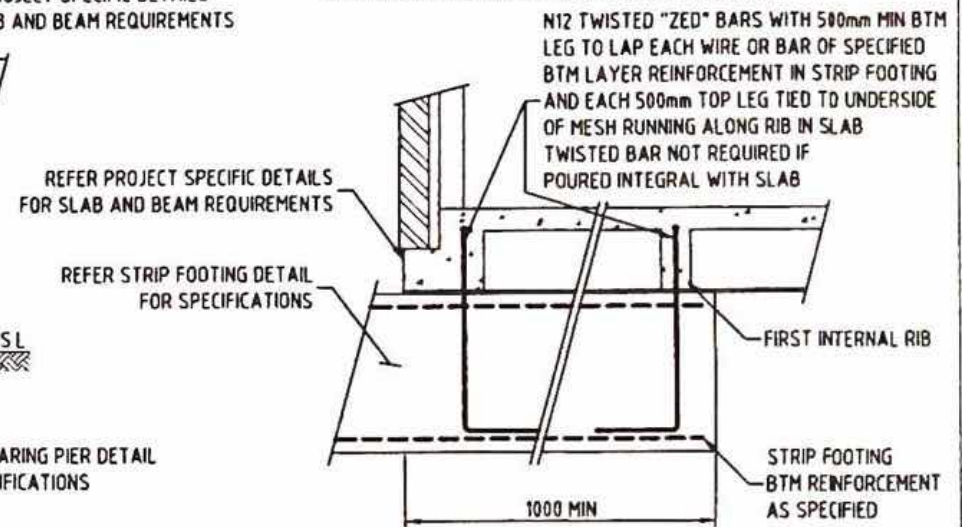
BEARING PIER DETAIL

SCALE = 1:20



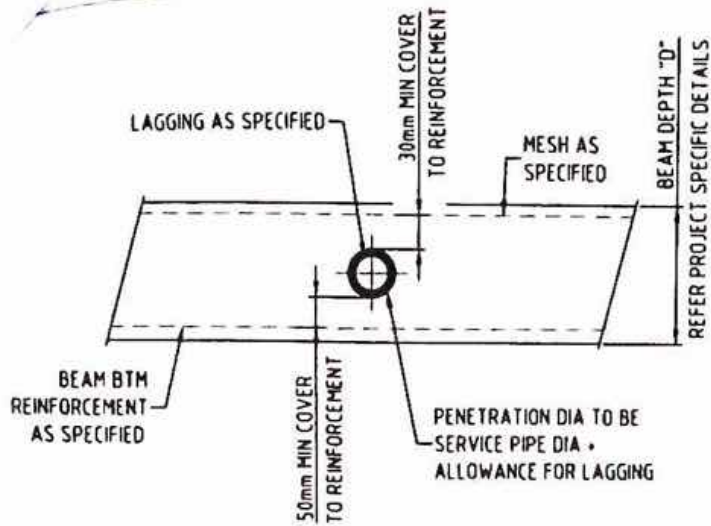
BEARING PIER ADJACENT SERVICES

SCALE = 1:20



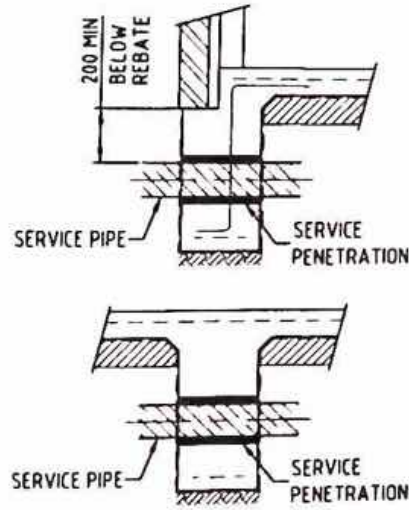
STRIP FOOTING/WAFFLE JUNCTION

SCALE = 1:20



**HORIZONTAL SERVICE PIPE PENETRATION
THRU MIDDLE THIRD OF BEAM**

SCALE = 1/20

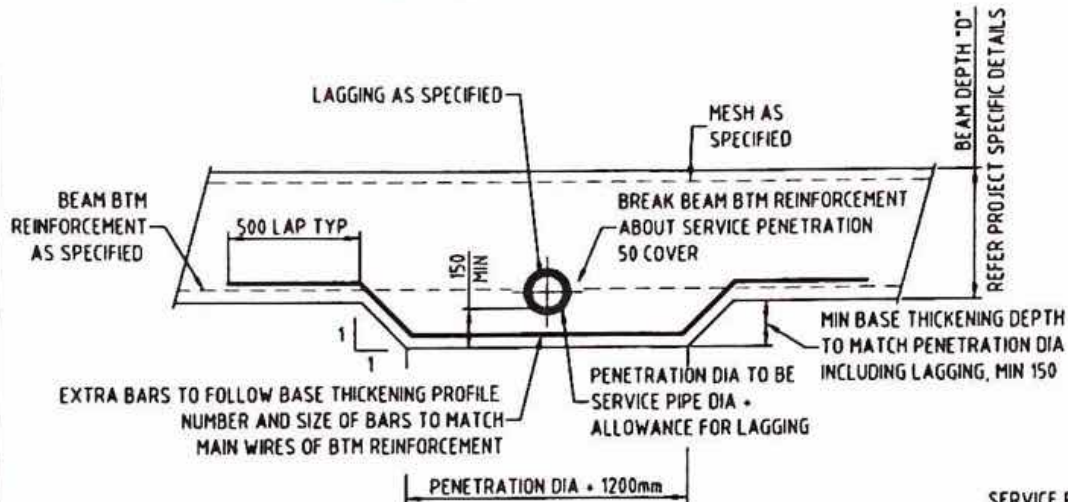


**SERVICE PIPE PENETRATION
TYPICAL SECTIONS THRU BEAMS**

SCALE = 1/20

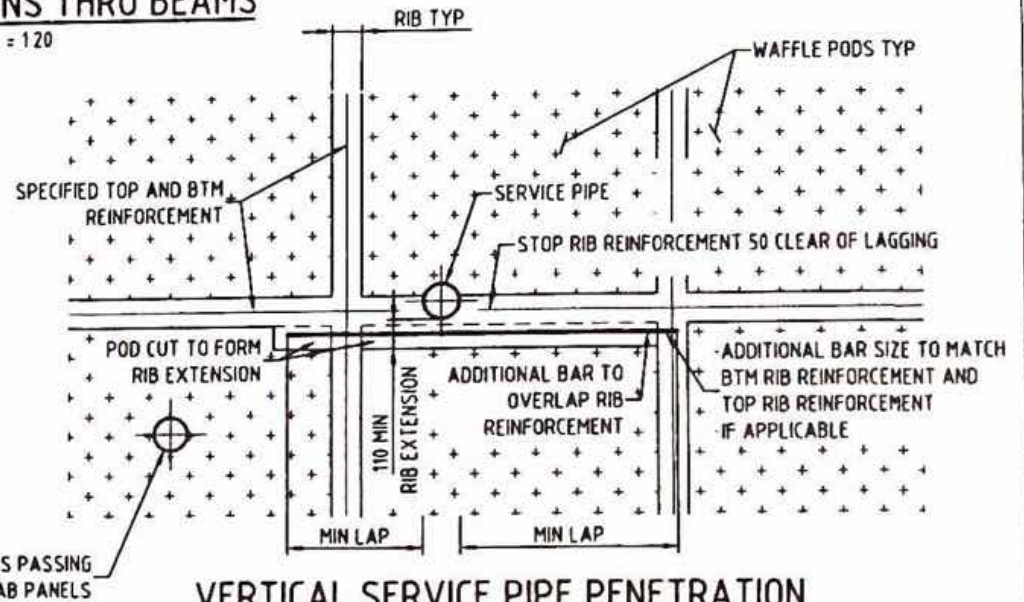
SERVICE PENETRATION NOTES

- 1 HORIZONTAL SERVICE PENETRATIONS AS DEPICTED ARE DESIGNED TO SUIT PIPES UP TO A MAXIMUM DIAMETER OF ONE THIRD OF THE DESIGN BEAM DEPTH i.e. D/3
- 2 ALL HORIZONTAL PIPE PENETRATIONS THROUGH SLAB BEAMS OR RIBS ARE TO BE WRAPPED IN CLOSED CELL POLYETHYLENE LAGGING TO SUIT THE SITE CLASSIFICATION. NO LAGGING IS REQUIRED FOR SITE CLASSIFICATIONS A AND S. LAGGING SHALL BE A MINIMUM 20mm THICK ON CLASS M, M-D, H1 AND H1-D SITES. LAGGING SHALL BE A MINIMUM 40mm THICK ON CLASS H2, H2-D AND E SITES OR ALTERNATIVELY PROVIDE SLEEVE WITH SIMILAR ALLOWABLE MOVEMENT
- 3 LAGGING NOT REQUIRED FOR VERTICAL SERVICE PANEL PENETRATIONS
- 4 WAFFLE POD SLAB TOP AND BOTTOM REINFORCEMENT REQUIRED SHALL BE ASCERTAINED FROM THE REINFORCEMENT REQUIREMENTS TABLE ON DRAWING G1020



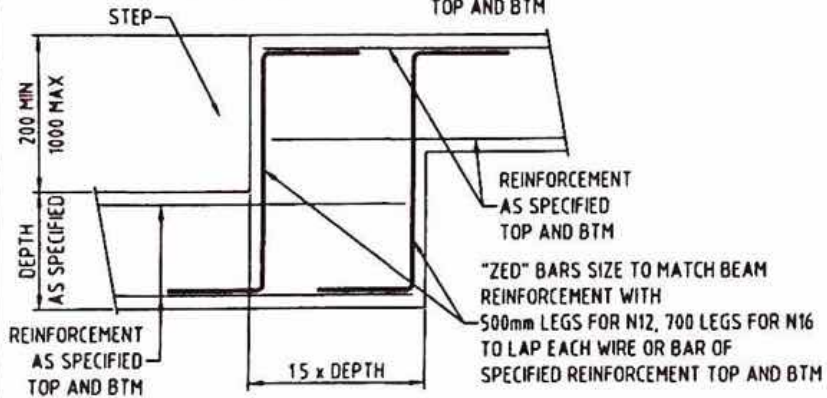
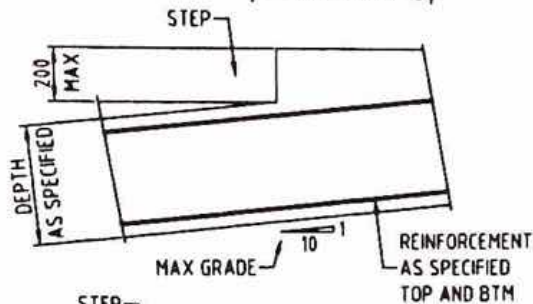
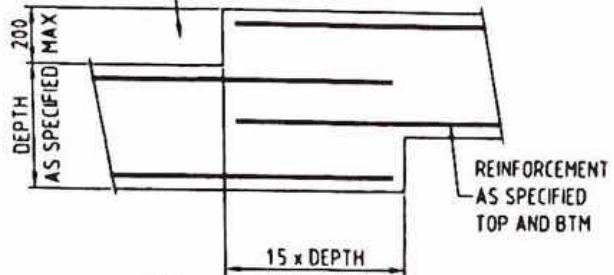
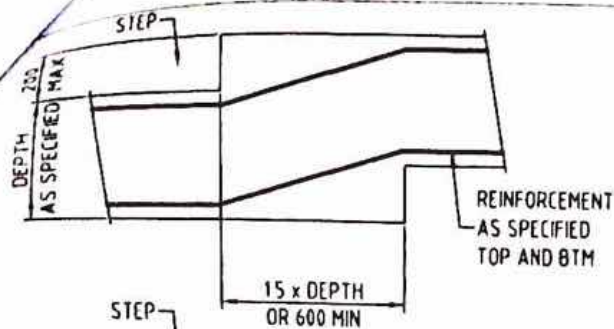
**HORIZONTAL SERVICE PIPE PENETRATION
THRU LOWER REGION OF BEAM**

SCALE = 1/20



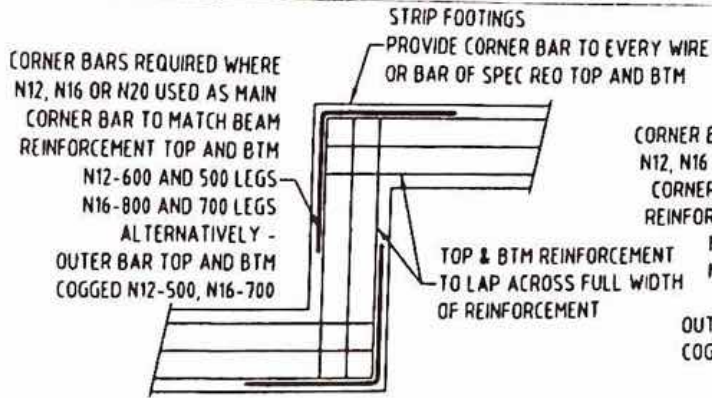
**VERTICAL SERVICE PIPE PENETRATION
THRU WAFFLE POD RIB**

SCALE = 1/20



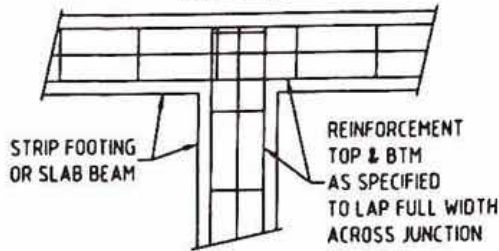
STRIP FOOTING STEPPING DETAILS

SCALE = 120



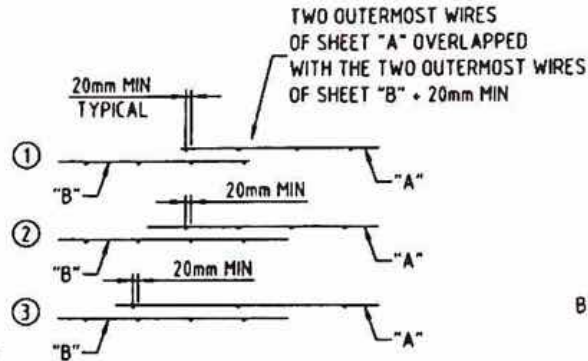
BEAM "L" INTERSECTION DETAIL

SCALE = 120



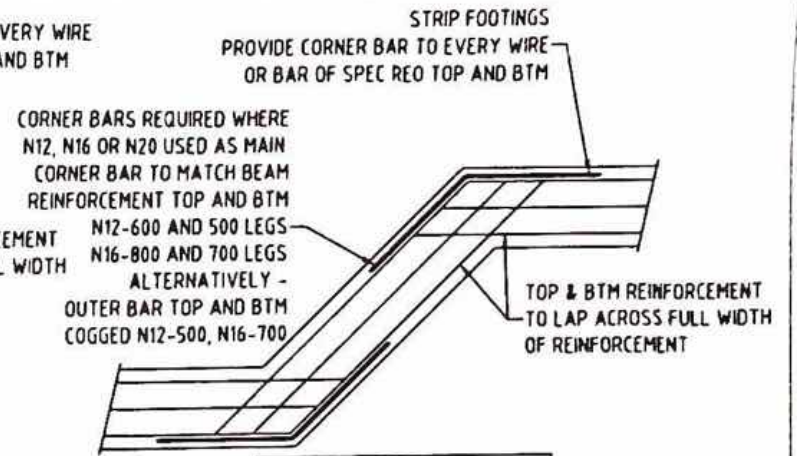
BEAM "TEE" INTERSECTION DETAIL

SCALE = 120



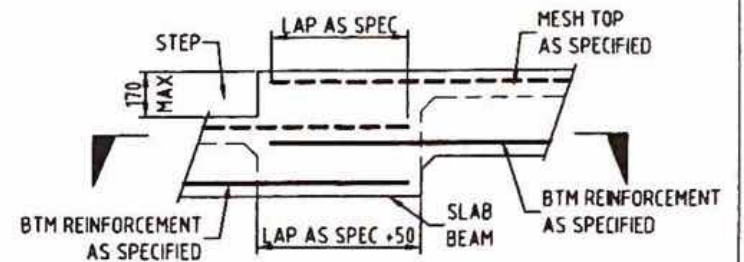
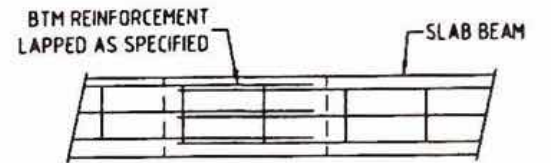
MESH LAPPING DETAILS

SCALE = 120



BEAM BAY WINDOW INTERSECTION DETAIL

SCALE = 120



CONTINUOUS SLAB BEAMS WITH DIFFERENT FOUNDING LEVELS

SCALE = 120