

SECTION DETAIL

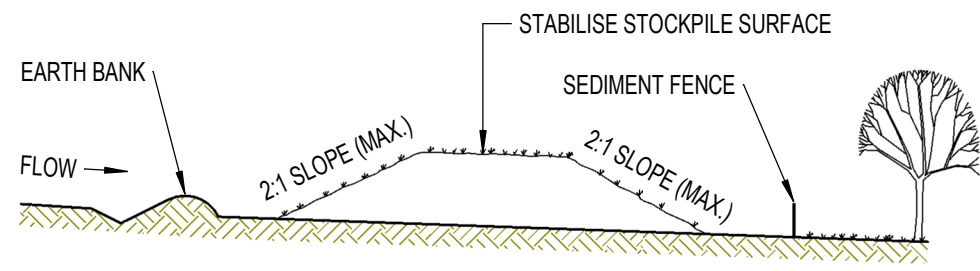
PLAN

NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50L/s IN THE DESIGN STORM EVENT, USUALLY THE 10 YEAR EVENT.
2. CUT A 200mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND AT 2.0m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE

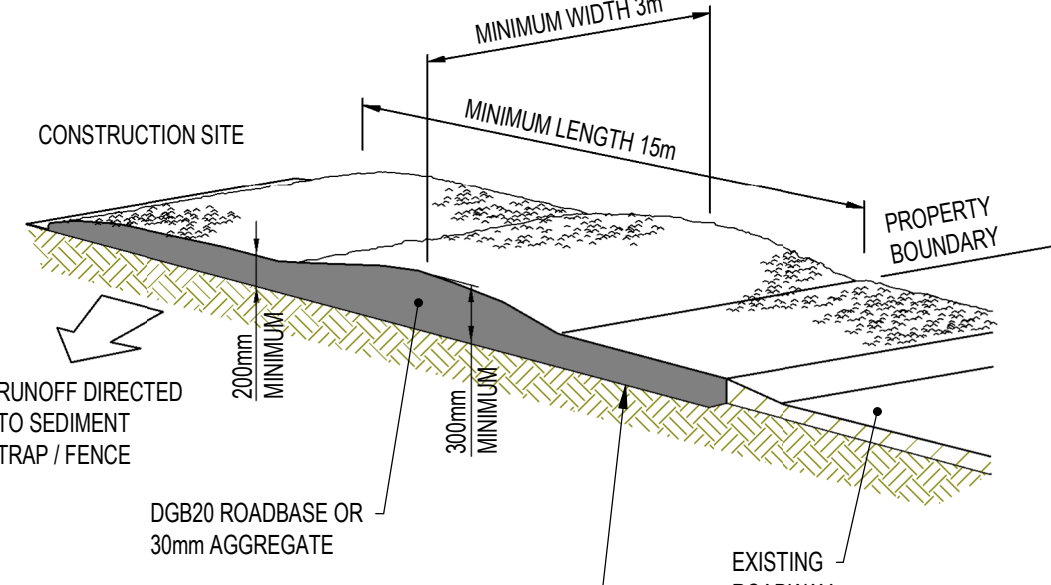
NOT TO SCALE



STOCKPILES

CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

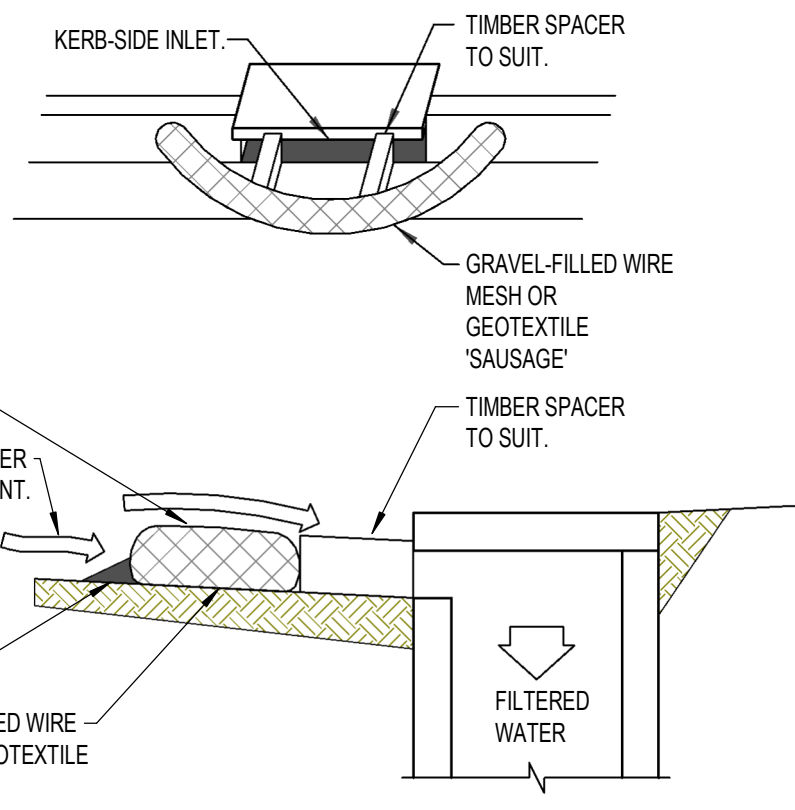


GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS. GEOFABRIC MAY BE A WOVEN OR NEEDLE-PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500 N.

CONSTRUCTION NOTES

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

STABILISED SITE ACCESS



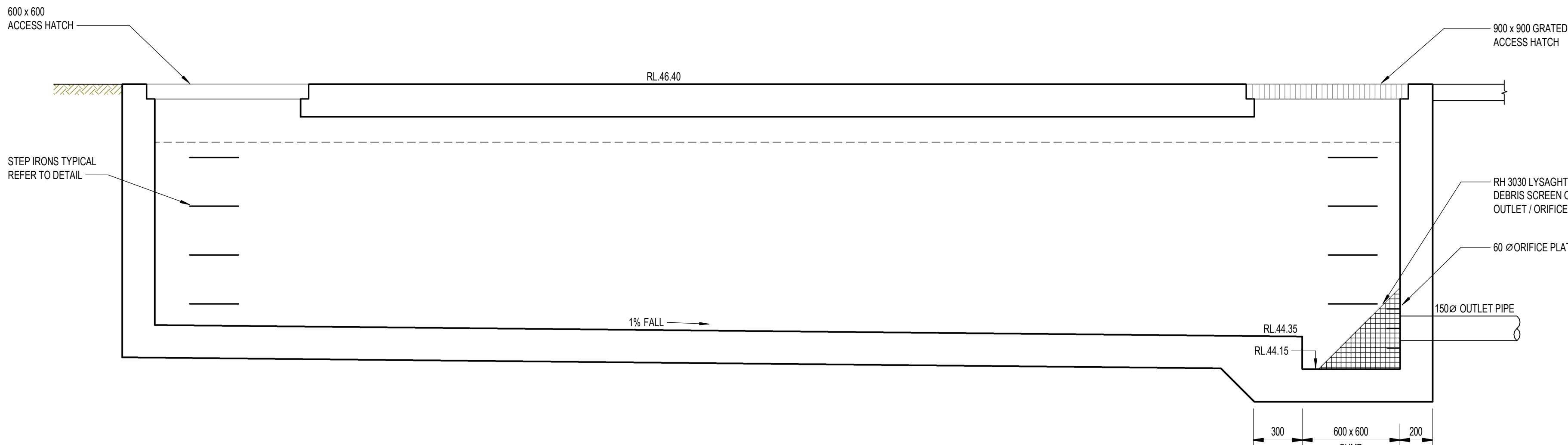
NOTE: THIS PRACTICE IS ONLY TO BE USED WHERE SPECIFIED IN AN APPROVED SWMP/ESCP.

CONSTRUCTION NOTES

1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT.
2. FILL THE SLEEVE WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING OF THE KERB INLET LEAVING A 100mm GAP AT THE TOP TO ACT AS AN EMERGENCY SPILLWAY.
5. MAINTAIN THE OPENING WITH SPACER BLOCKS.
6. FORM A SEAL WITH THE KERBING AND PREVENT SEDIMENT BYPASSING THE FILTER.
7. FIT TO ALL KERB INLETS AT SAG POINTS.

MESH AND GRAVEL INLET FILTER

NOT TO SCALE



OSD TANK 2 CROSS SECTION

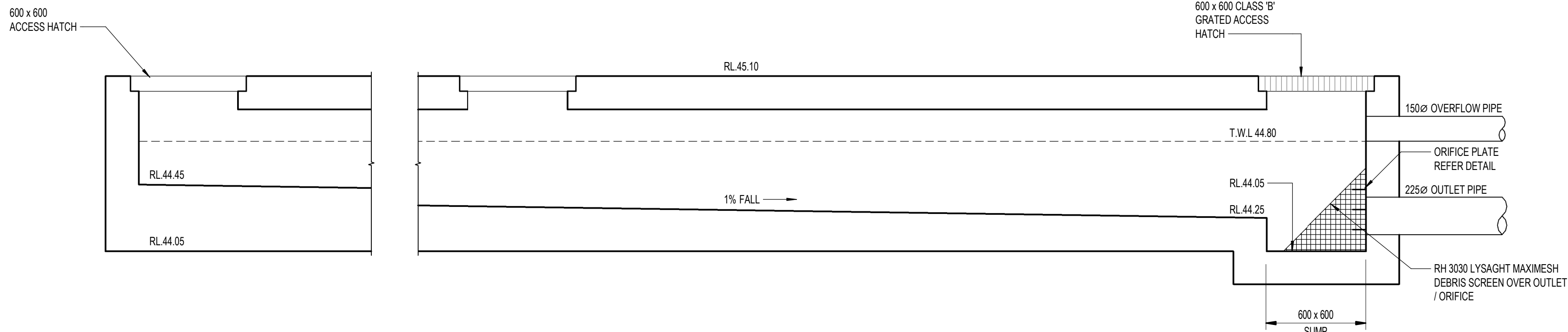
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SECTION

G.01

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C006



OSD TANK 1 CROSS SECTION

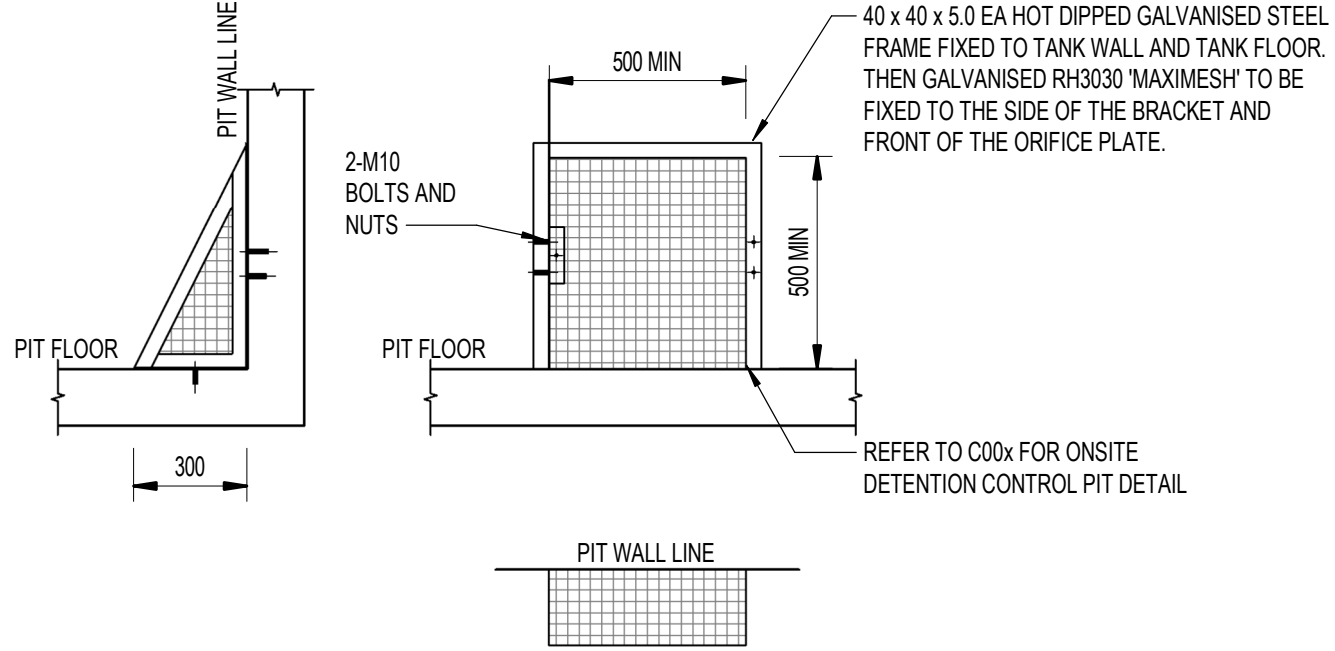
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SECTION

G.02

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C006

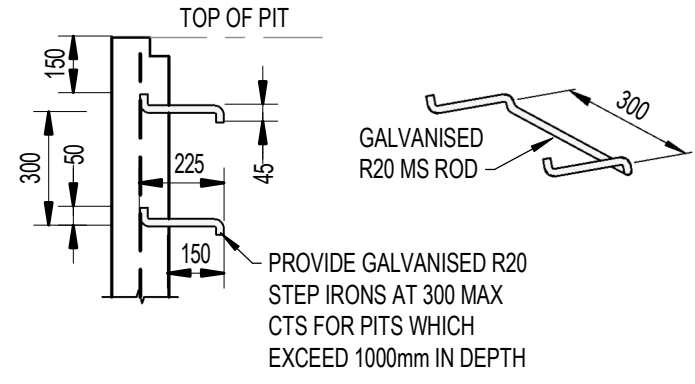


OSD MAXIMESH DETAIL

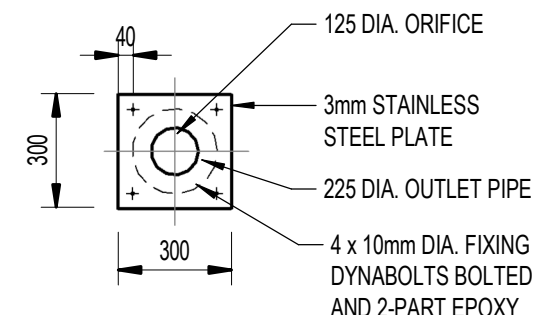
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NOTES:

1. MESH TO BE MAXIMESH RH3030 (OR EQUIVALENT) EXPANDED STEEL MESH, GALV/ZINC COATED.
2. MESH TO BE AFFIXED TO 40 x 40 x 5 EA SECTION BY 2 x 10mm GALV/ZINC/SS NUT AND BOLT. BOLTS TO BE WELDED IN PLACE SO AS TO BE RETAINED ON ANGLE SECTION.
3. EQUAL ANGLE SECTIONS TO BE MIN LENGTH 300mm FIXED TO PIT WALLS.



TYPICAL STEP IRON DETAIL



OSD TANK 1 ORIFICE PLATE DETAIL

SCALE 1:20

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A	SECTION 4.55 ISSUE	28/06/22
1	PRELIMINARY ISSUE	16/06/22

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TITLE
CIVIL DETAILS SHEET 2

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Project Director	MW	Certified		
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Project	Drawing	Revision
220197	C002	A

RESIDENTIAL DEVELOPMENT , 12 BOYLE STREET & 307 SYDNEY ROAD. BALGOWLAH

CIVIL AND DRAINAGE NOTES

C1. ALL LEVELS ON STRUCTURAL/CIVIL DRAWINGS ARE TO DATUM NOMINATED BY PROJECT SURVEYOR.
REFER SURVEY DRAWINGS FOR EXISTING BOUNDARIES, LEVELS ETC.
ALL LEVELS ARE IN METRES. ALL EXISTING LEVELS SHOWN ARE TO BE CONFIRMED ON SITE.

C2. PAVEMENT LEVELS ARE FINISHED LEVELS THROUGHOUT.

C3. ANY EXISTING PAVEMENT, KERB AND CHANNEL, KERB OR THE LIKE THAT IS DAMAGED DURING CONSTRUCTION IS TO BE REINSTATED TO ITS ORIGINAL CONDITION AND TO THE SATISFACTION OF THE RELEVANT AUTHORITY PRIOR TO THE COMPLETION OF WORKS.

C4. ALL EARTH BATTERS ARE TO BE IN THE RATIO OF 1 TO 4 OR LESS UNLESS NOTED OTHERWISE.
BATTERS ARE TO BE KEPT A MINIMUM 1 METRE FROM BUILDINGS, ROADS, WALLS AND THE LIKE.

C5. SUBGRADE PREPARATION:
ALL VEGETATION, TOP SOIL AND FILL MATERIAL SHALL BE REMOVED FROM THE PAVEMENT AREA AND EXTENDING 300mm PAST THE EDGE OF THE PAVEMENT TO EXPOSE THE SUBGRADE MATERIAL AS NOTED IN THE GEOTECHNICAL REPORT.
THE SUBGRADE (PRIOR TO ANY FILL OR PAVEMENT BEING PLACED) SHALL BE PROOF ROLLED IN THE PRESENCE OF THE PROJECT GEOTECHNICAL ENGINEER (OR RELEVANT AUTHORITY) AND BE APPROVED TO HAVE A MINIMUM CBR OF 3% UNLESS NOTED OTHERWISE. THE MOISTURE CONTENT OF THE SUBGRADE SHOULD BE BETWEEN 90% AND 120% OF O.M.C.

ANY SOFT SPOTS ENCOUNTERED SHALL BE EXCAVATED AND REPLACED WITH COMPACTED FILL IN LAYERS NOT GREATER THAN 150mm THICK TO A MINIMUM DENSITY OF 95% M.M.D.O MEASURED IN ACCORDANCE WITH AS 1289.5.2.1.

THE MATERIAL TO BE USED AS FILL SHALL BE APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
THE CLIENT IS TO BE ADVISED OF ANY VARIATION WORKS RELATING TO SUBGRADE PREPARATION PRIOR TO PROCEEDING WITH ANY REMEDIAL WORKS.

C6. ALL DRAINAGE, WORKMANSHIP AND MATERIALS TO COMPLY WITH:
AS 3500.3:2018 (STORMWATER DRAINAGE)
AS 2870:2011 (RESIDENTIAL SLABS AND FOOTINGS),
VICROAD STANDARD DRAWINGS AND SPECIFICATIONS,
RELEVANT AUTHORITY AS APPLICABLE.

C7. FINISHED SURFACES ADJACENT TO BUILDINGS ARE TO FALL 50mm MIN AWAY FROM BUILDING FOR THE FIRST METRE.

C8. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND IDENTIFY ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION.

C9. PRIOR TO COMMENCING WORK THE CONTRACTOR IS TO ENSURE THAT ALL NECESSARY INVESTIGATION IS UNDERTAKEN TO ENSURE THAT THE WORKS CAN BE CONSTRUCTED AS DESIGNED.
IF THE WORK CANNOT BE CARRIED OUT AS SHOWN THE CLIENT IS TO BE NOTIFIED IMMEDIATELY.

C10. REFER TO ARCHITECTS DRAWINGS FOR CONSTRUCTION LEVELS.
REFER ANY DISCREPANCIES TO THE ARCHITECT.

C11. ALL EXISTING UNDERGROUND SERVICES ARE TO BE LOCATED PRIOR TO ANY EXCAVATION AND NO EXISTING SERVICE SHALL BE DISCONNECTED OR DISTURBED WITHOUT THE APPROVAL OF THE CLIENT OR RESPONSIBLE AUTHORITY.

C12. ALL PIT COVERS TO COMPLY WITH AS3500.3:2018 'STORMWATER AND DRAINAGE' AND AS3996-2006 'ACCESS COVERS AND GRATES'. BUILDER TO CONFIRM ALL PIT COVER TYPES AND FINISH WITH THE ARCHITECT AND/OR SUPERINTENDENT AND ENSURE FIT FOR PURPOSE PRIOR TO ORDERING.

C13. STORMWATER DRAINS SUSPENDED UNDER SLABS OR ALONG WALLS SHALL BE TO APPROVED DETAILS.

C14. ANY MISALIGNMENTS THAT MAY BE SOLVED BY CORBELLING OF PIT WALLS MAY ONLY BE CARRIED OUT WITH THE WRITTEN APPROVAL OF THE ENGINEER.

C15. ALL DOWNPIPE COLLECTOR PIPES SHALL MATCH DOWNPIPE SIZE (100 DIA MIN) AT A GRADE OF 1 IN 100 UNLESS NOTED OTHERWISE.

C16. ALL PIPE JOCTIONS SHALL BE MADE WITH A 45° JOINT.

C17. CLASS OF PIPES:

(a) CONCRETE PIPES (RC)
SHALL CONFORM TO AS 1342 'PRECAST CONCRETE DRAINAGE PIPES' AND SHALL BE CLASS 2 PIPE WITH SPIGOT AND SOCKET RUBBER RING JOINTS UNLESS NOTED OTHERWISE.
ALL CONCRETE PIPES UNDER PAVEMENTS TO BE CLASS 4

(b) FIBRE REINFORCED CEMENT PIPES (FRC)
SHALL CONFORM TO AS 1342 'PRECAST CONCRETE DRAINAGE PIPES' AND SHALL BE TESTED TO THE REQUIREMENTS OF AS 1712 APPENDIX D 'ASBESTOS CEMENT SEWER PIPES'.
ALL FRC PIPES SHALL BE CLASS X WITH ADOL 'Y' RING JOINTS.
FOR PIPE SIZES GREATER THAN 300mm ALTERNATIVE JOINTING MAY BE PERMITTED WITH THE APPROVAL OF THE CITY ENGINEER.

UNPLASTICISED PVC PIPES (UPVC)

(c-1) WITHIN PROPERTY:

ALL UPVC PIPES SHALL CONFORM TO AS 2032 'CODE PRACTISE FOR THE INSTALLATION OF UPVC PIPES' PART 7 AND SHALL BE CLASS 6 SEWER QUALITY OR HEAVY DUTY STORMWATER DEPENDING ON APPLICATION.
ALL JOINTING PROCEDURES SHALL CONFORM TO AS 2032 PART 3 AND SHALL BE EITHER SOLVENT WELDED OR RUBBER RING JOINTS.

WITHIN ROAD RESERVE:

(c-2) ALL UPVC PIPES SHALL CONFORM TO AS 1260
'UNPLASTICISED P.V.C (UPVC) PIPES AND FITTING FOR SEWERAGE APPLICATIONS' PARTS 1 TO 5 AND SHALL BE CLASS S.H PIPES

C18. COVER DETAILS:

LOCATION	MINIMUM COVER (mm)	
	CAST IRON, GALVANIZED STEEL	PLASTICS
1. NOT SUBJECT TO VEHICULAR LOADING		
a) WITHOUT PAVEMENT -		
i) FOR SINGLE DWELLING; OR	100	100
ii) FOR OTHER THAN SINGLE DWELLINGS	100	300
b) WITH PAVEMENT OF BRICK OR UNREINFORCED CONCRETE	100*	100*
2. SUBJECT TO VEHICULAR LOADING		
a) OTHER THAN ROADS:		
i) WITHOUT PAVEMENT	300	450
ii) WITH PAVEMENT OF -		
A) REINFORCED CONCRETE FOR HEAVY VEHICULAR LOADING; OR	NIL*	100*
B) BRICK OR UNREINFORCED CONCRET FOR LIGHT VEHICULAR LOADING.	NIL*	75*
b) ROADS:		
i) SEALED; OR	600	600
ii) UNSEALED	600	750
3. SUBJECT TO CONSTRUCTION EQUIPMENT LOADING OR IN EMBANKMENT CONDITIONS	600	750
4. LAND ZONE OF AGRICULTURAL USE	600	600

*BELOW THE UNDERSIDE OF THE PAVEMENT.

C19. WHERE A DRAIN IS LAID PARALLEL TO A FOOTING IT IS TO BE LOCATED SUCH THAT THE BASE OF ANY OF THE TRENCH IS NOT BELOW THE LINE OF INFLUENCE OF THE FOOTING WHICH IS 1H : 1V IN CLAY OR 2H : 1V IN SAND SOILS.

C20. ALL DRAINAGE EXCAVATIONS ARE TO BE BACKFILLED WITH A SUITABLE APPROVED MATERIAL. UNDER SEALED PAVEMENTS AND BUILDING SLABS, THIS SHALL BE 20mm, DGS20 BACKFILL TO BE COMPACTED IN LAYERS NOT EXCEEDING 150mm LOOSE THICKNESS TO A DRY DENSITY OF NOT LESS THAN 95% OF THE MODIFIED COMPACTION TEST AS 1289.5.2.1

C21. FOR CONCRETE HEADWALL DETAILS REFER RELEVANT AUSTRALIAN STANDARDS AUTHORITY REQUIREMENT OR RMS SPECIFICATIONS.

C22. ALL CONCRETE SHALL BE 32MPa STRENGTH GRADE COMPLYING WITH THE REQUIREMENTS OF AS 1379:1991. UNLESS SPECIFIED OTHERWISE.

C23. ALL PIPING THAT PENETRATES A FOOTING/STRUCTURE IS TO BE LAGGED WITH A COMPRESSIBLE MATERIAL, 50mm MINIMUM.

C24. CONTRACTOR / BUILDER IS TO COMPLETE ALL LINE MARKINGS AS INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS UNLESS NOTED OTHERWISE. REFER TO ARCHITECT FOR SET OUT OF LINE MARKING.
ALL LINE MARKING TO BE COMPLETED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AUTHORITY REQUIREMENT OR RMS SPECIFICATIONS.

C25. CONTRACTOR / BUILDER SHALL ALLOW FOR AND OBTAIN ALL NECESSARY AUTHORITY APPROVALS AND PERMITS.

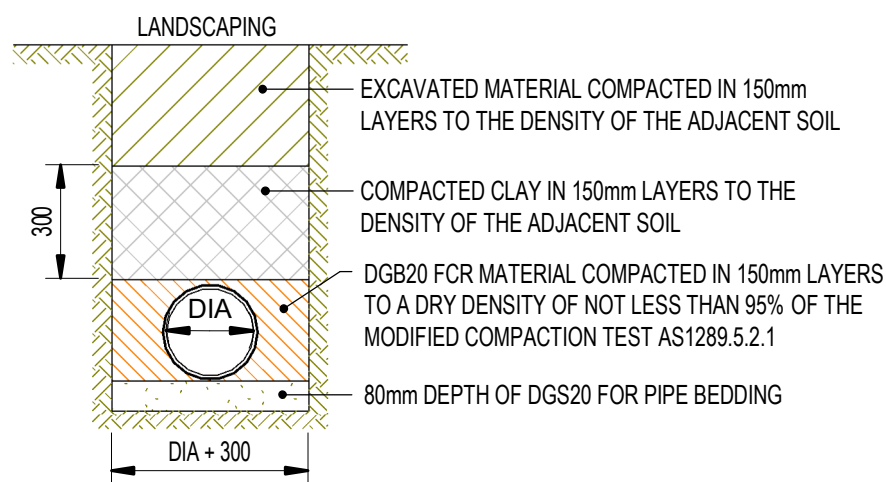
C26. UNLESS NOTED OTHERWISE, ALL PAVEMENT CONSTRUCTION TO FOLLOW THE RELEVANT RMS OR LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.

DEPTH TO INVERT OF OUTLET	MINIMUM INTERNAL DIMENSIONS (mm)		
	RECTANGULAR	CIRCULAR	
	WIDTH	LENGTH	DIAMETER
<600	350	350	-
<600	450	450	600
>600 <900	600	600	900
>900 <1200	600	900	1000
>1200	900	900	1000

MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS



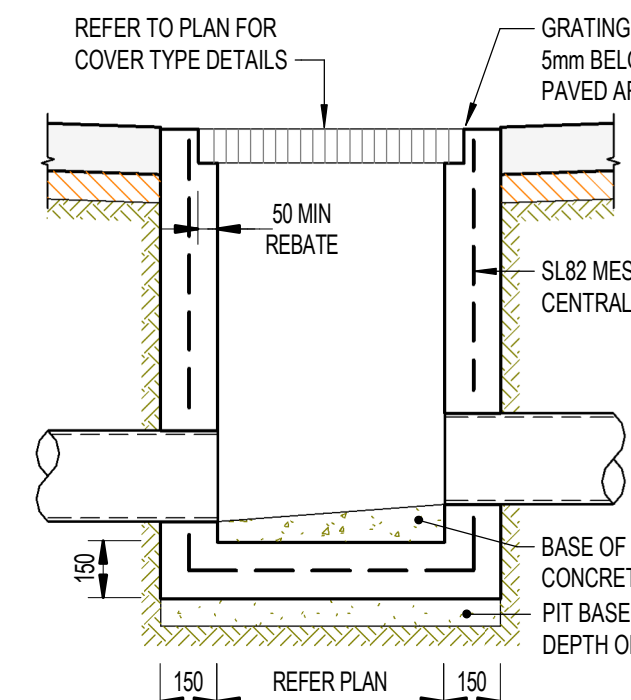
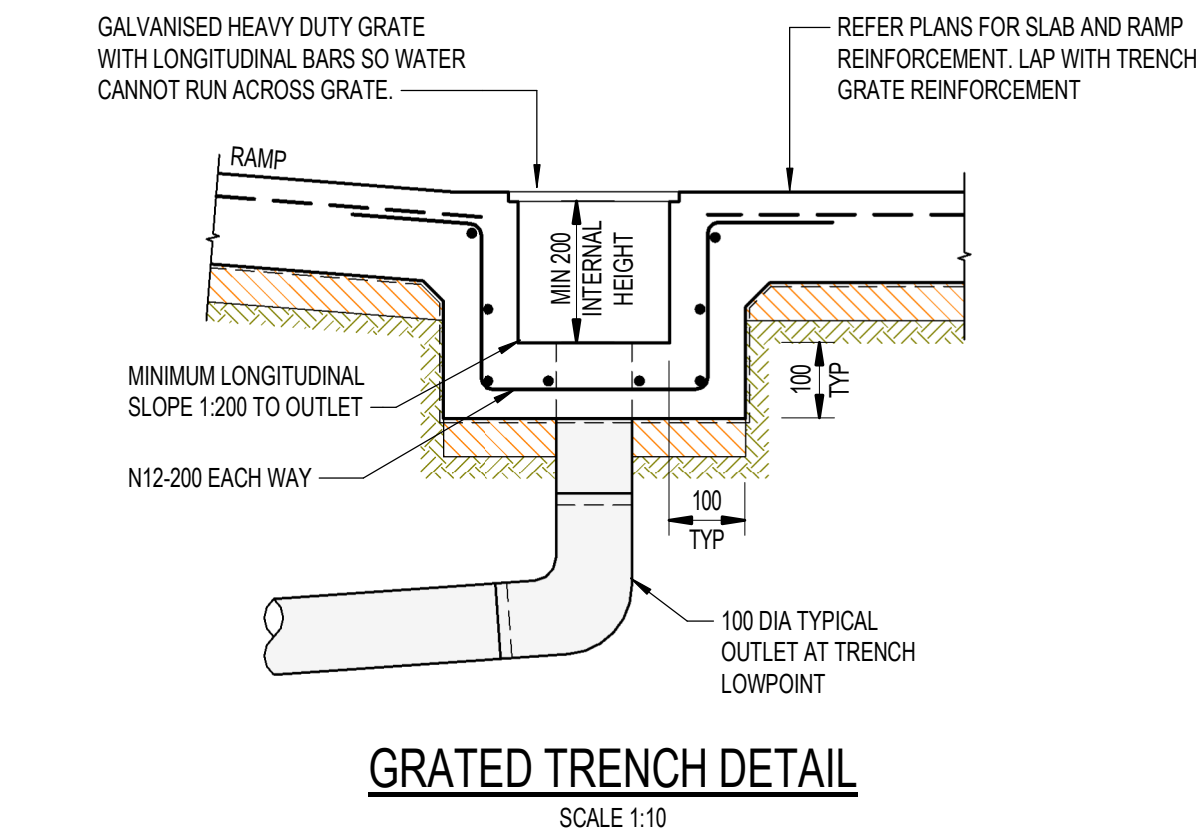
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CONTRACTOR TO CONFIRM LOCATION OF EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS



PIPE LAYING DETAIL - LANDSCAPE AREAS

NOTE:

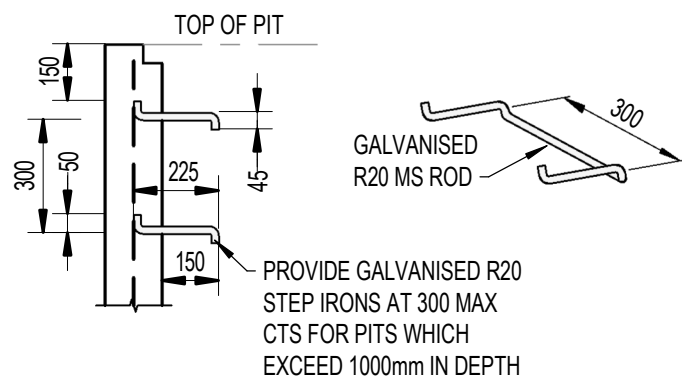
- IN REACTIVE SOILS OR WHERE TRENCH IS NEAR FOUNDATIONS, CLAY OR IMPERVIOUS MATERIAL SHALL BE USED AS BACKFILL. WHERE POSSIBLE, MAINTAIN 1.5m HORIZONTAL CLEARANCE FROM BUILDINGS.
- FOR REINFORCED CONCRETE PIPES IF DIAMETER GREATER THAN 300mm, USE A BEDDING DEPTH OF 100mm OF 20mm OR LESS NOMINAL SIZE DGS20.
- ALL TRENCHES OVER 1.5m DEPTH TO BE IN ACCORDANCE WITH CURRENT OH&S (CONFINED SPACES) REGULATIONS AND THE CODE OF PRACTICE FOR CONFINED SPACES.



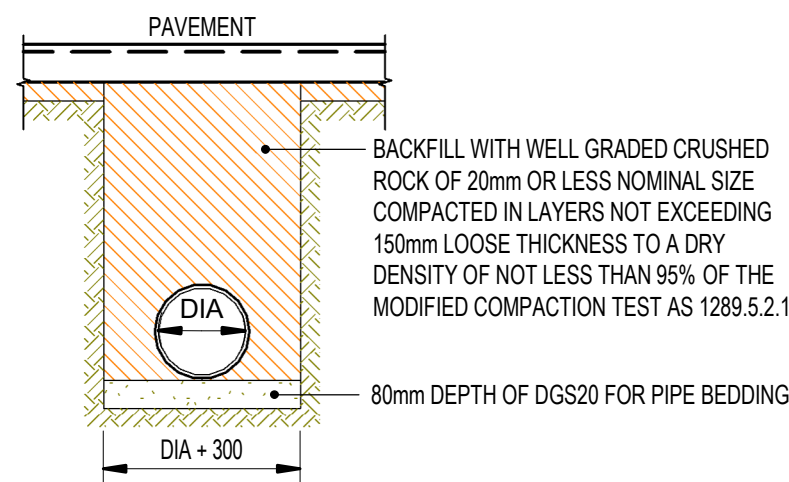
GRADED PIT DETAIL (JUNCTION PIT SIMILAR)

NOTES:

- ALL GRATED LIDS ARE TO BE FABRICATED TO SUIT INVERT PROFILE OF PAVEMENT OR ROAD.
- ALL JUNCTION PIT LIDS TO BE CAST IRON, CONCRETE INFILL TYPE UNLESS NOTED OTHERWISE.
- REFER TO PIT SCHEDULE OR PLAN FOR TYPE AND DIMENSIONS.
- FOR PITS GREATER THAN 1000mm IN DEPTH, PROVIDE STEP IRONS AT 300mm CTS AS PER DETAIL ON THIS DRAWING.



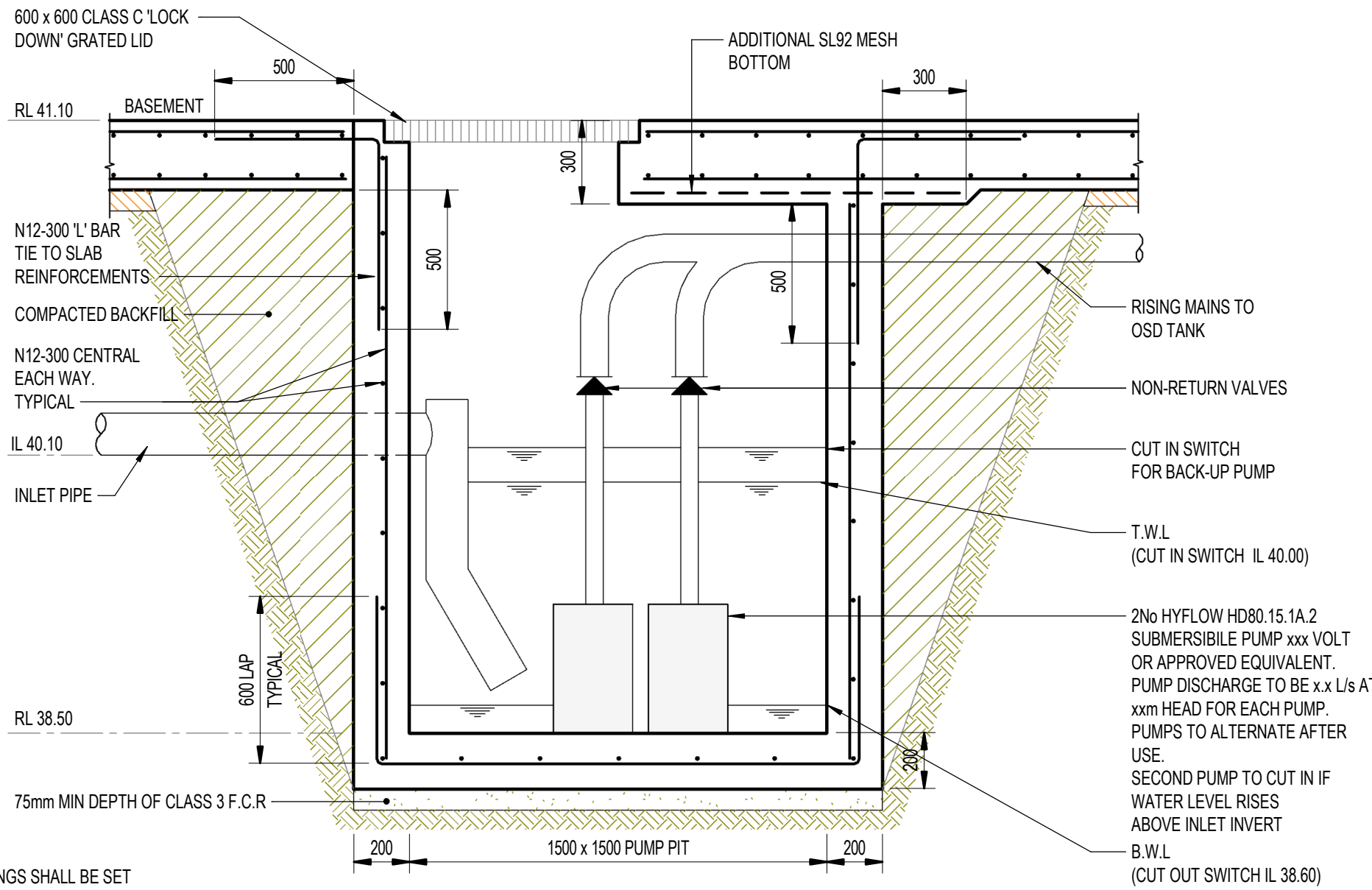
TYPICAL STEP IRON DETAIL



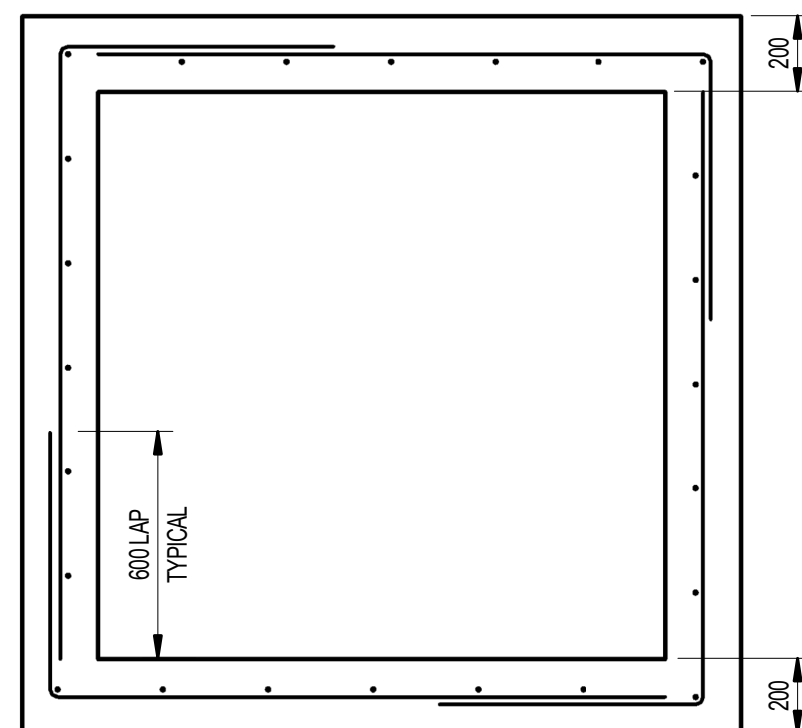
PIPE LAYING DETAIL - PAVED AREAS

NOTE:

- IN REACTIVE SOILS OR WHERE TRENCH IS NEAR FOUNDATIONS, CLAY OR IMPERVIOUS MATERIAL SHALL BE USED AS BACKFILL. WHERE POSSIBLE, MAINTAIN 1.5m HORIZONTAL CLEARANCE FROM BUILDINGS.
- FOR REINFORCED CONCRETE PIPES IF DIAMETER GREATER THAN 300mm, USE A BEDDING DEPTH OF 100mm OF 20mm OR LESS NOMINAL SIZE DGS20.
- ALL TRENCHES OVER 1.5m DEPTH TO BE IN ACCORDANCE WITH CURRENT OH&S (CONFINED SPACES) REGULATIONS AND THE CODE OF PRACTICE FOR CONFINED SPACES.



SECTION THOUGH PUMP PIT



PUMP PIT PLAN

NOTE:
PROVIDE FLASHING RED LIGHT AT ENTRY TO CARPARK IN THE EVENT OF PUMP FAILURE. LIGHT TO FLASH UNTIL TURNED BY MANUAL SWITCH. POWER TO PUMPS BY ELECTRICAL CONTRACTOR

POWER BACK-UP NOTE:
POWER BACK-UP SUPPLY IS REQUIRED TO MAINTAIN PUMP OPERATION FOR MINIMUM 3 HOURS IN THE EVENT OF POWER FAILURE. REFER TO THE PUMP MANUFACTURERS FOR DETAILS AND REQUIREMENTS.

NOTE:
DETAILED DESIGN OF PUMP PIT TO BE CONFIRMED DURING CC DOCUMENTATION

PUMP PIT MAINTENANCE SCHEDULE

NOTE:

A 24 HOUR x 12 MONTHLY EMERGENCY AND MAINTENANCE CONTRACT SHALL BE OBTAINED FROM A COMPANY CAPABLE OF EXECUTING THE WORK THAT SHALL BE KEPT IN FORCE BY THE PROPERTY OWNER(S) FOR THE LIFE OF THE BUILDING.

THE MAINTENANCE CONTRACT SHALL BE CARRIED OUT EVERY THREE (3) MONTHS AND SHALL INCLUDE THE FOLLOWING ACTIVITIES:

- CLEAN OUT PIT OF ALL SILT AND DEBRIS.
- CHECK AND CLEANOUT, IF NECESSARY , ALL PIPELINES.
- CHECK:
 - PUMPS FOR WEAR
 - PUMP OIL SEALS
 - PUMP STRAINER AND CLEAN.
- CARRY OUT ROUTINE MAINTENANCE TO PUMPS AS RECOMMENDED BY THE MANUFACTURE
- CHECK OPERATIONAL SEQUENCE OF LEVEL SWITCHES, PUMPS AND CONTROL PANEL.
- THE EMERGENCY CONTRACT SHALL PROVIDE A 24 HOUR x 7 DAY PER WEEK SERVICE.

THE CONTRACTOR SHALL PROVIDE A NAME PLATE STATING NAME, WORKING HOURS, TELEPHONE NUMBER AND OUT OF HOURS NUMBER AND SUCH NAME PLATE SHALL BE FIXED TO THE FRONT OF THE CONTROL PANEL.

CIVIL LEGEND		
EXISTING	NEW	ITEM
~E99.99	~P99.99	LEVEL
~EK99.99	~TK99.99	TOP OF KERB LEVEL
~EW99.99	~TW99.99	TOP OF WALL LEVEL
EP99.99	TP99.99	TOP OF PIT LEVEL
L99.99	IL99.99	INVERT LEVEL
~E99.50	~P99.50	INTERMEDIATE CONTOURS
~E100.00	~P100.00	MAIN CONTOURS
==	==	STORMWATER PIPE
-AG-AG-	-AG-AG-	AGI PIPES
-W-W-	-	WATER SERVICE
-S-S-	-	SEWER SERVICE
-E-E-	-	ELECTRICITY SERVICE
-T-T-	-	OVERHEAD ELECTRICITY SERVICE
GAS-CAS	-	GAS SERVICE
• Ex DP	• DP	DOWNPIPE
-	• FW	FLOOR WASTE
-	• FWIFA	FLOOR WASTE WITH DROPPER FROM ABOVE
-	• FWITB	FLOOR WASTE WITH DROPPER TO BELOW
-	• IO	INSPECTION OPENING
-	• DR	DROPPER
-	■	VERTICAL STRIP DRAIN
-	(P1)	PIT NUMBER (REFER PIT SCHEDULE FOR DETAILS)
Ex JP		JUNCTION PIT (JP)
Ex GP		GRADED PIT (GP)
Ex SEP		SIDE ENTRY PIT (SEP)
Ex PP		POLY PIT (PP)
ETD	TD	GRADED TRENCH DRAIN (TD)
-	SD	BASEMENT SPOON DRAIN
EXC	KC	BARRIER KERB & CHANNEL
EK	K	BARRIER KERB
ESD	SD	PAVEMENT SPOON DRAIN
ERW	RW	RETAINING WALL

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TITLE
CIVIL NOTES AND DETAILS SHEET
1

Designed	CW	Drawn	MD	North
Project Leader	MW	Sheet Size	A1	
Project Director	MW	Certified	-	
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Project	Drawing	Revision
220197	C001	A

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