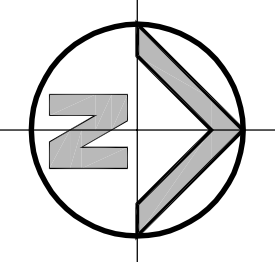


PROPOSED HOUSING DEVELOPMENT, 77-79 WALDRON ROAD, CHESTER HILL, NSW CIVIL ENGINEERING WORKS

GENERAL NOTES:

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE BLACKTOWN CITY COUNCIL'S SPECIFICATION. CONTRACTOR TO OBTAIN AND RETAIN A COPY ON SITE DURING THE COURSE OF THE WORKS.
- ALL NEW WORKS ARE TO MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS, AND MARRY IN A WORKMANLIKE MANNER.
- THE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL SERVICES WITH EACH RELEVANT AUTHORITY. ANY DAMAGE TO SERVICES SHALL BE RECTIFIED BY THE CONTRACTOR OR THE RELEVANT AUTHORITY AT THE CONTRACTORS EXPENSE. SERVICES SHOWN ON THESE PLANS ARE ONLY THOSE EVIDENT AT THE TIME OF SURVEY OR AS DETERMINED FROM SERVICE DIAGRAMS. HENRY AND HYMAS CONSULTING PTY. LTD. CANNOT GUARANTEE THE INFORMATION SHOWN NOR ACCEPT ANY RESPONSIBILITY FOR INACCURACIES OR INCOMPLETE DATA.
- SERVICES & ACCESSSES TO THE EXISTING PROPERTIES ARE TO BE MAINTAINED IN WORKING ORDER AT ALL TIMES DURING CONSTRUCTION.
- ADJUST EXISTING SERVICE COVERS TO SUIT NEW FINISHED LEVELS TO RELEVANT AUTHORITY REQUIREMENTS WHERE NECESSARY.
- REINSTATE AND STABILISE ALL DISTURBED LANDSCAPED AREAS.
- MINIMUM GRADE OF SUBSOIL SHALL BE 0.5% (1:200) FAL TO OUTLETS.
- ALL TEMPORARY SEGMENT AND EROSION CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS, EROSION AND SEDIMENTATION CONTROL PLAN AND BLACKTOWN CITY COUNCIL'S REQUIREMENTS WHERE APPLICABLE.
- CONTRACTOR TO CHECK AND CONFIRM SITE DRAINAGE CONNECTIONS ACROSS THE VERGE PRIOR TO COMMENCEMENT OF SITE DRAINAGE WORKS.
- PROPERTIES AFFECTED BY THE WORKS ARE TO BE NOTIFIED IN ADVANCE WHERE DISRUPTION TO EXISTING ACCESS IS LIKELY.



EXISTING SERVICES & FEATURES

- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA OR AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF HIS PROGRAM FOR THE RELOCATION/ CONSTRUCTION OF TEMPORARY SERVICES.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN SUPPLY TO EXISTING BUILDING REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED, THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
- INTERUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL FROM THE SUPERINTENDENT FOR TIME OF INTERUPTION.
- EXISTING SERVICES, BUILDINGS, EXTERNAL STRUCTURES AND TREES SHOWN ON THESE DRAWINGS ARE EXISTING FEATURES PRIOR TO ANY DEMOLITION WORKS.
- EXISTING SERVICES UNLESS SHOWN ON SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE A DIAL BEFORE YOU DIG SEARCH AND TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN 80 Ø 4PVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.



LOCALITY SKETCH

NTS

DRAWING SCHEDULE

16D09_DA_C000	COVER SHEET, DRAWING SCHEDULE & LOCALITY SKETCH
16D09_DA_C100	GENERAL ARRANGEMENT PLAN
16D09_DA_C200	STORMWATER MISCELLANEOUS DETAILS & PTI/D SCHEDULE
16D09_DA_C201	OSD SECTIONS AND DETAILS
16D09_DA_SE01	SEDIMENT & EROSION CONTROL PLAN
16D09_DA_SE02	SEDIMENT & EROSION CONTROL TYPICAL DETAILS

SITeworks NOTES

- DATUM AHD.
- ORIGIN OF LEVELS REFER TO BENCH OR STATE SURVEY MARKS WHERE SHOWN ON PLAN.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
- ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS & THE DIRECTIONS OF THE SUPERINTENDENT.
- EXISTING SERVICES UNLESS SHOWN ON SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE DIAL BEFORE YOU DIG SEARCH AND TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- WHERE NEW WORKS ADJUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS ACHIEVED.
- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION IS TO BE UNDERTAKEN OVER TELSTRA OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- CONTRACTOR TO OBTAIN AUTHORITY / APPROVALS WHERE APPLICABLE.
- MAKE SMOOTH TRANSITION TO EXISTING SURFACES AND MAKE GOOD.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING TO DEVELOPMENT AT THE SITE.
- TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50mm IN BITUMINOUS PAVING.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN 80 Ø 4PVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.
- GRADES TO PAVEMENTS TO BE AS IMPLIED BY RL'S ON PLAN. GRADE EVENLY BETWEEN NOMINATED RL'S AREAS EXHIBITING PONDING GREATER THAN 5mm DEPTH WILL NOT BE ACCEPTED UNLESS IN A DESIGNATED SAG POINT.
- ALL COVERS AND GRATES ETC TO EXISTING SERVICE UTILITIES ARE TO BE ADJUSTED TO SUIT NEW FINISHED SURFACE LEVELS WHERE APPLICABLE.

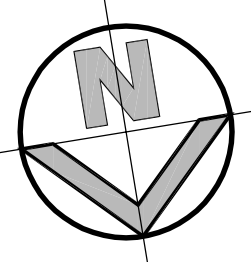
SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY SURVEYOR SPECIFIED IN THE TITLE BLOCK.

THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. HENRY AND HYMAS PTY. LTD. DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE ON ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

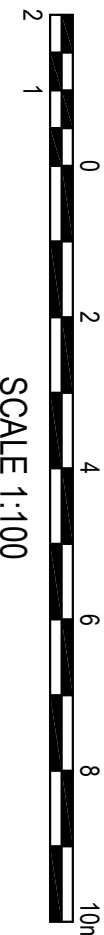
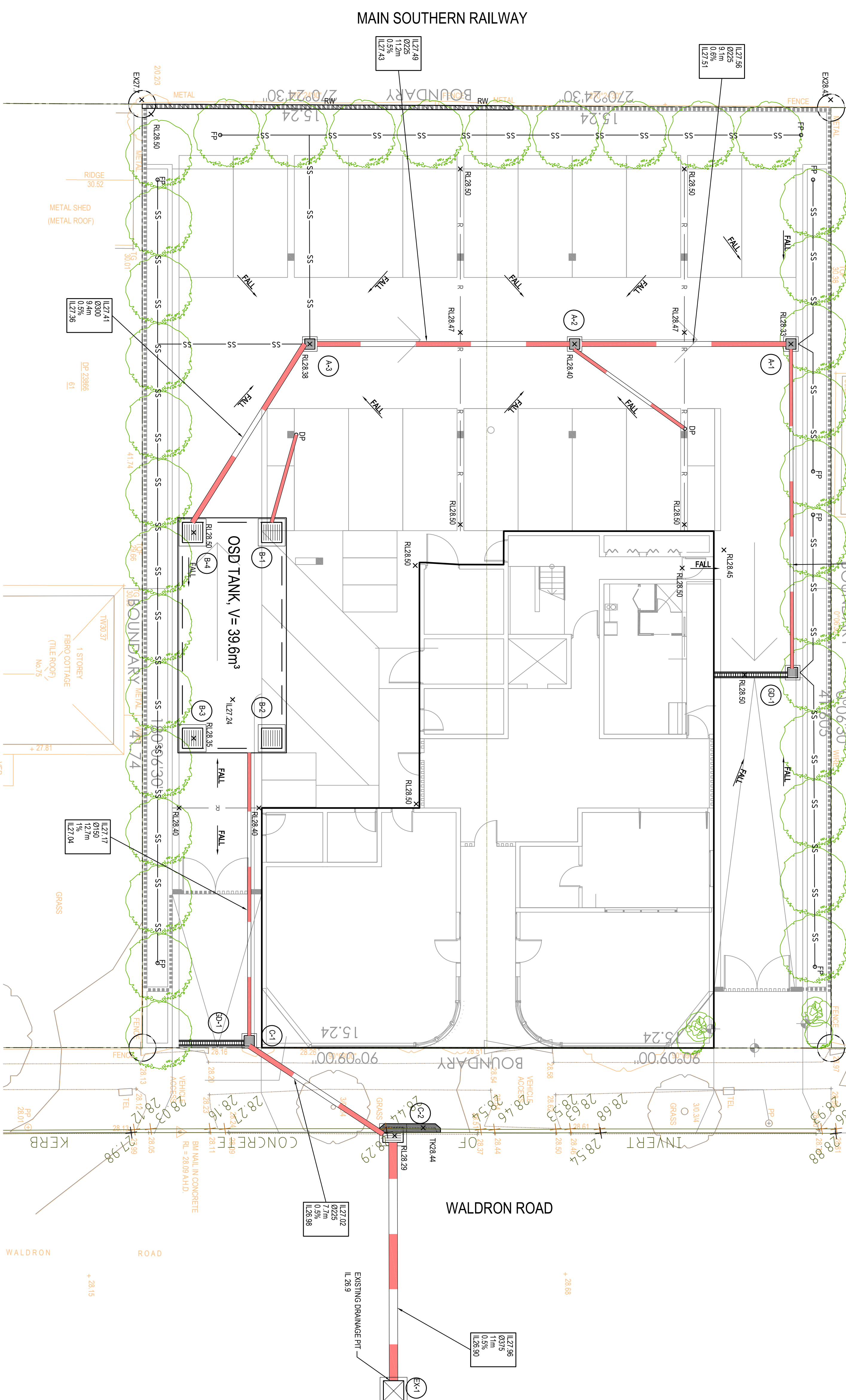
SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT HENRY AND HYMAS PTY. LTD. THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM ORIGINAL SURVEY DOCUMENTS.

SURVEY INFORMATION				Client			
SURVEYED BY HILDBLUME				AUSTICI DEVELOPMENT PTY LTD			
ORIGIN OF LEVELS: SSBM 6567 / AHD 705.410				PTI			
01				This drawing and design remains the property of Henry & Hyman and may not be copied in whole or in part without the prior written approval of Henry & Hyman.			
02				Level 5, 79 Waldron Road, Chester Hill NSW 2167			
03				16D09_DA_C000			
04				77-79 WALDRON ROAD, CHESTER HILL			
05				COVER SHEET, DRAWING SCHEDULE & LOCALITY SKETCH			
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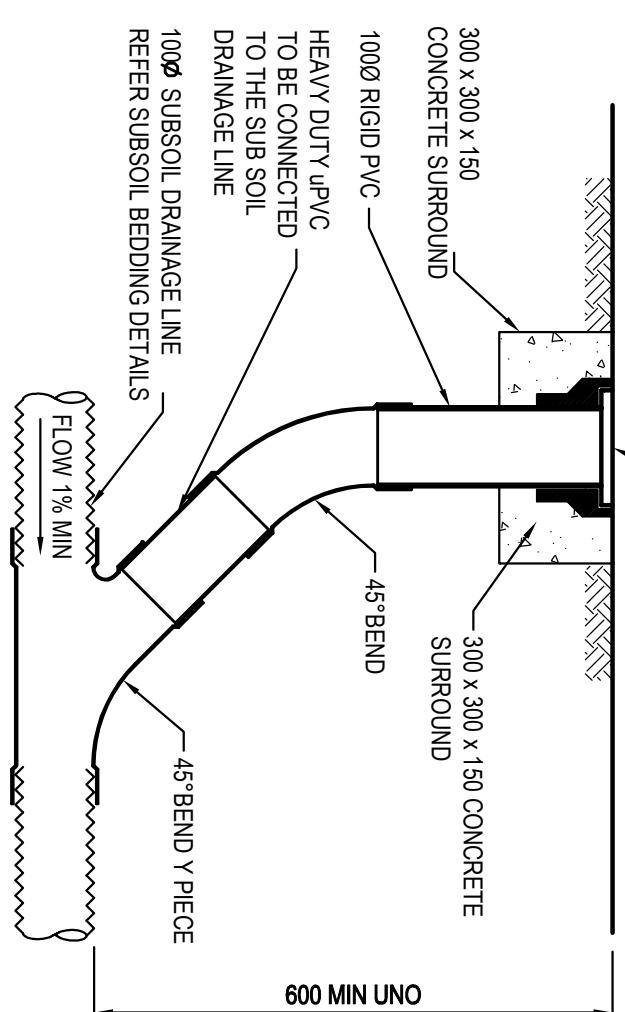
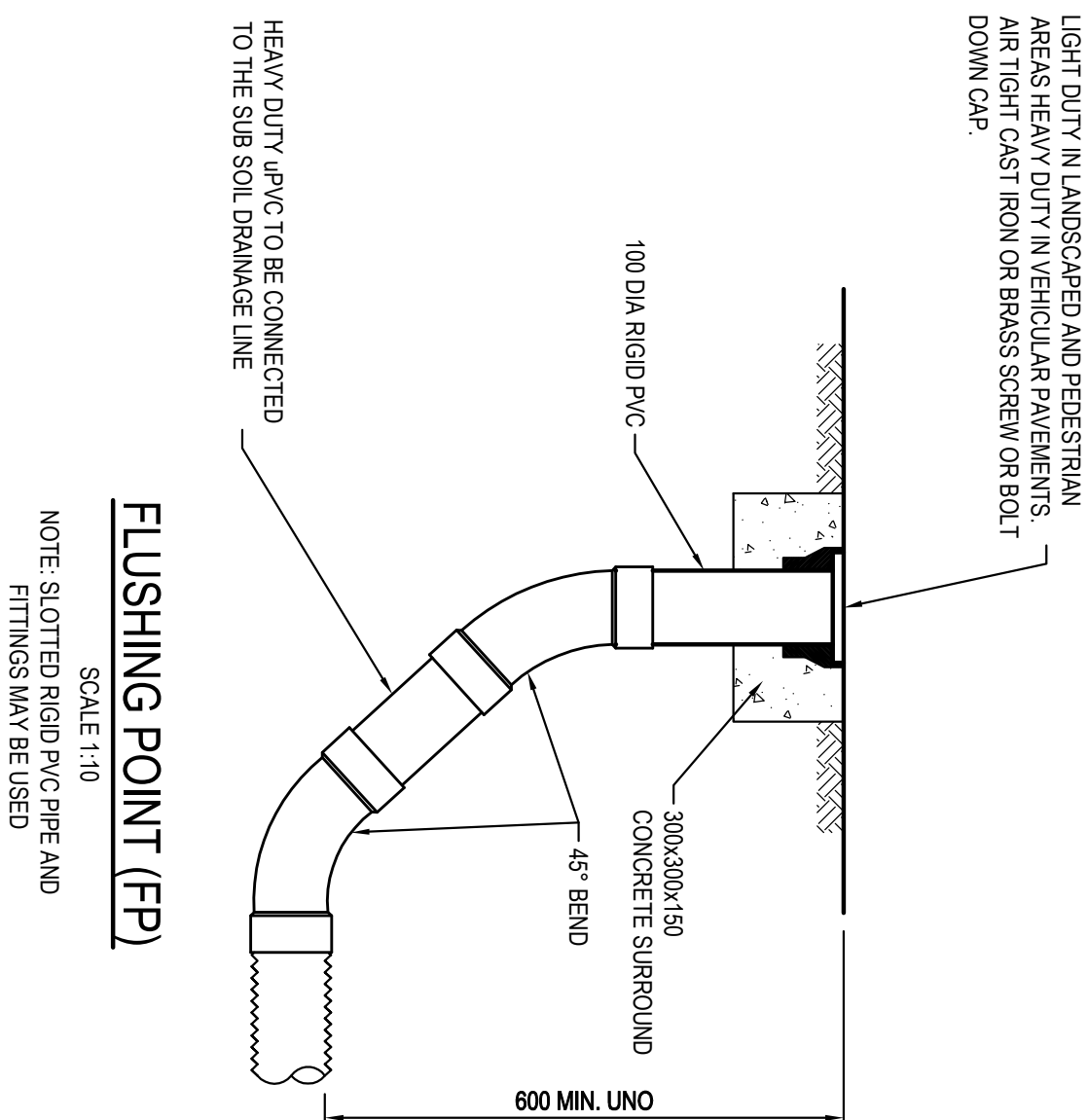
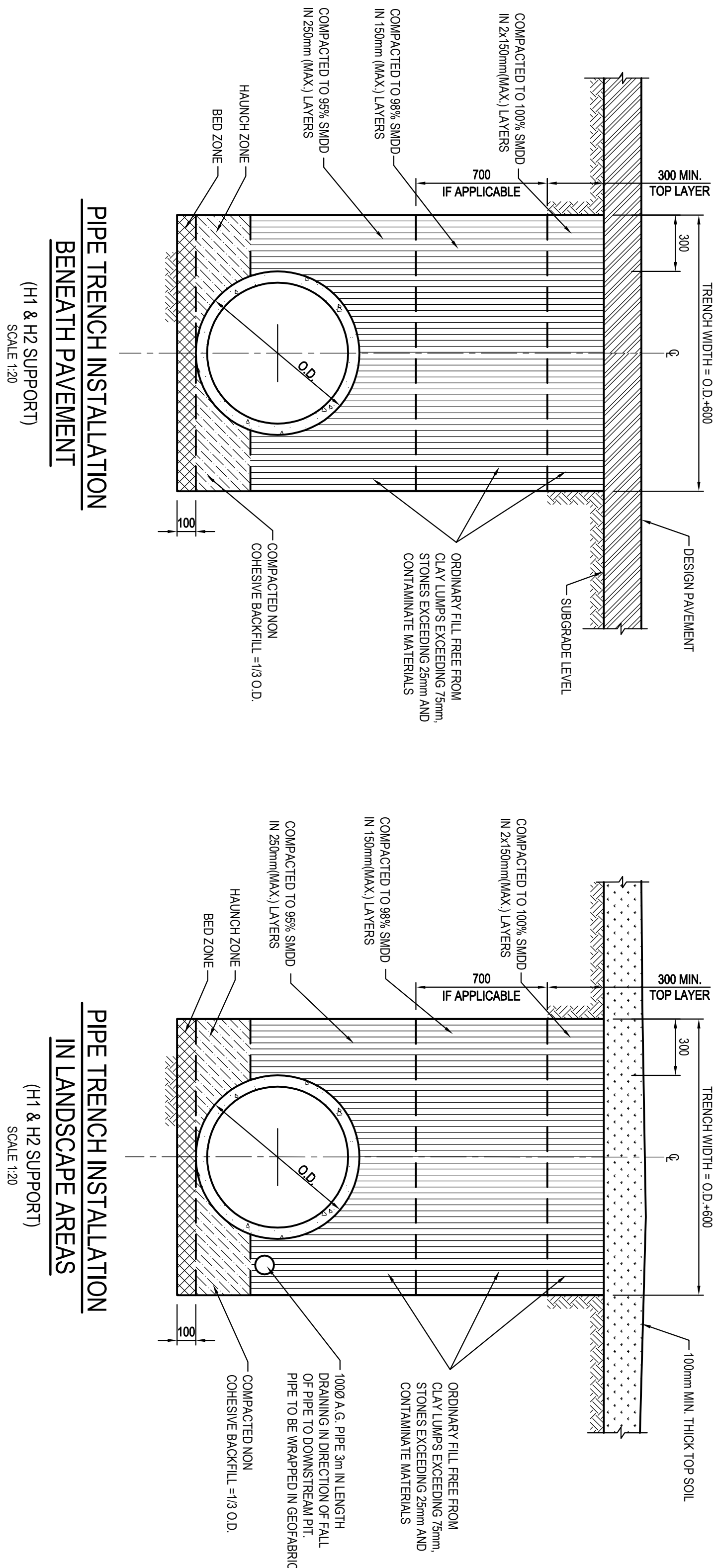
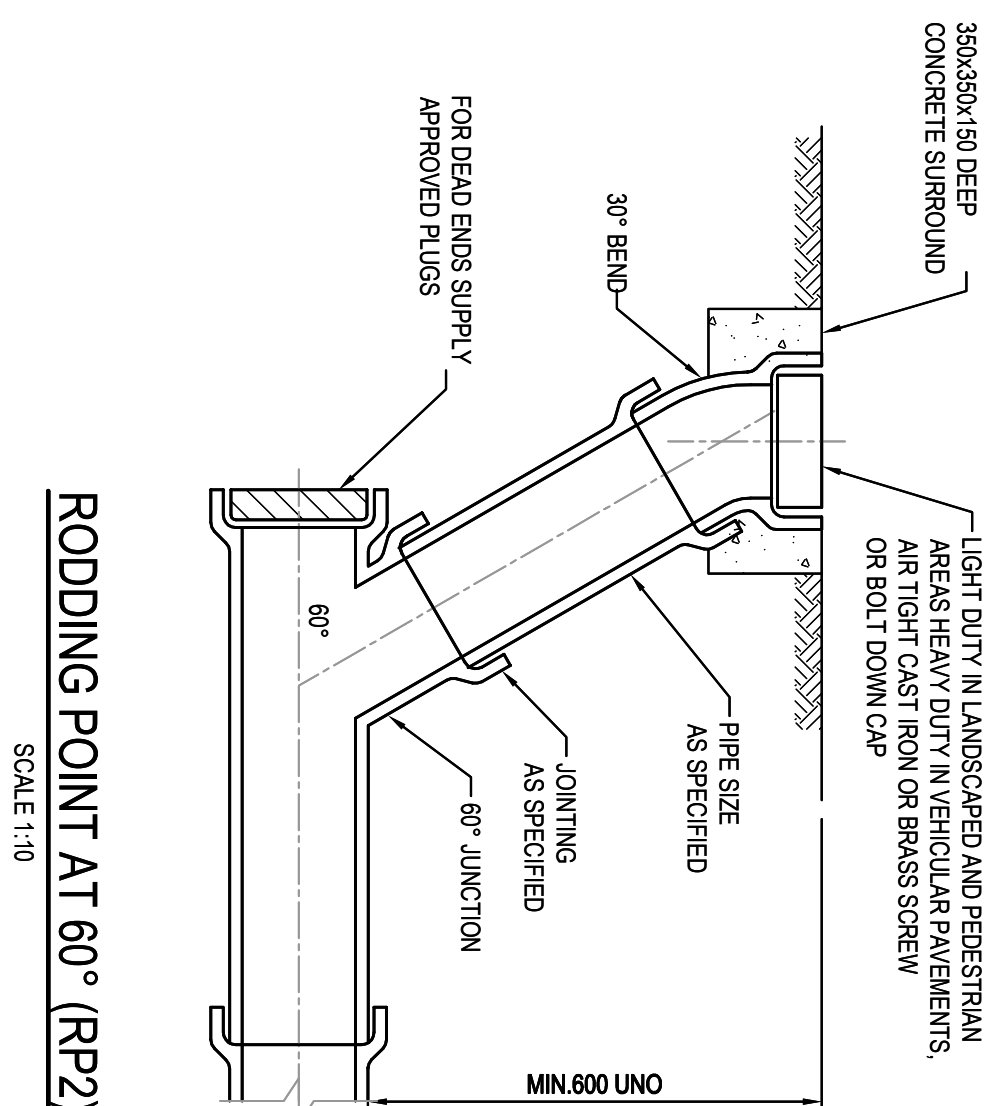
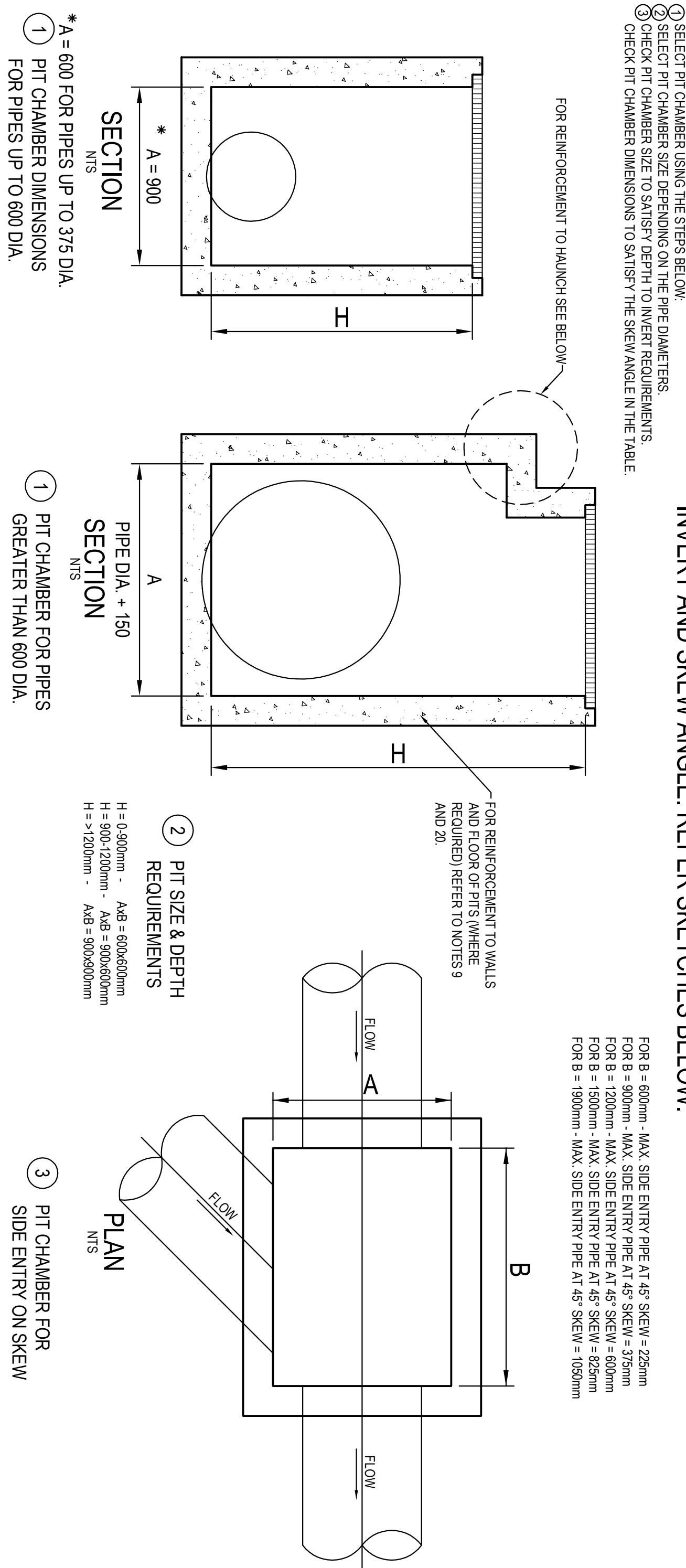
LEGEND

- EXISTING BOUNDARY
- OUTLINE OF BUILDING
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED STORMWATER PIPE
- EXISTING SPOT LEVEL
- PROPOSED SPOT LEVEL
- PROPOSED PIT TAG
- PROPOSED SUBSOIL DRAINAGE
- STORMWATER UPSTREAM INVERT RL
- STORMWATER PIPE DIAMETER & CLASS
- STORMWATER PIPE LENGTH
- STORMWATER PIPE GRADE
- STORMWATER DOWNSTREAM INVERT RL



SURVEY INFORMATION				Client				Project			
SURVEYED BY HILLBLUME				AUSTICI DEVELOPMENT PTY LTD				77-79 WALDRON ROAD CHESTER HILL			
DRAWN AND CHECKED BY HILLBLUME				PTI				GROUND FLOOR PLAN			
ORIGIN OF FILES: SSM 0057 / R4.2016.A1D				The drawing and design remains the property of Henry & Hyman and may not be copied in whole or in part without the prior written approval of Henry & Hyman.							
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94	31/07/2017	MC	MC	94	31/07/2017	MC	MC	94	31/07/2017	MC	MC
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100	31/07/2017	MC	MC	100	31/07/2017	MC	MC	100	31/07/2017	MC	MC

IT IS THE CONTRACTORS RESPONSIBILITY TO SELECT PIT CHAMBER SIZE WITH REGARDS TO PIPE SIZE, DEPTH TO INVERT AND SKEW ANGLE. REFER SKETCHES BELOW.

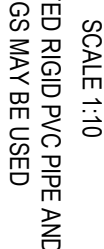


PIT LID SCHEDULE	
PIT NUMBER	DESCRIPTION
A-1	INLET PIT WITH 450x600 HINGED MEDIUM DUTY GRADED LD CLASS "B" IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.
2-1	
A-3	
C-1	
B-1	INLET PIT WITH 900x900 HINGED LIGHT DUTY HEEL PROOF GRADED LD CLASS "B" WITHIN OSD TANK IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.
B-1	
B-3	
B-4	
GS-1	150mm WIDE MEDIUM DUTY GRADED GRAIN AND MEDIUM DUTY FRAME CLASS "B" IN ACCORDANCE WITH COUNCILS REQUIREMENTS.
GS-2	
EX-1	EXISTING PIT
EX-2	
EX-3	
EX-4	
C-2	SAG KEEP INLET PIT WITH 1.8m INLET AND MEDIUM DUTY GRADED LD CLASS "C" IN ACCORDANCE WITH LOCAL COUNCILS REQUIREMENTS.

DRAINAGE NOTES:

1. ALL STORMWATER WORK TO COMPLY WITH AS 3500 PART 3.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM COVER OF 800mm ON ALL PIPES.
3. PROTECTION OF PIPES DUE TO LOADS EXCEEDING 17 WHEEL LOAD SHALL BE THE CONTRACTORS RESPONSIBILITY.
4. BEDDING TYPE SHALL BE TYPE H2 FOR RCP WHERE NECESSARY THE OVERLAY ZONE SHALL BE REDUCED TO ACCOMMODATE PAVEMENT REQUIREMENTS. REFER TO THIS DRAWING FOR DETAILS.
5. MINIMUM COVER OVER EXISTING PIPES FOR PROTECTION DURING CONSTRUCTION SHALL BE 800mm.
6. NO CONSTRUCTION LOADS SHALL BE APPLIED TO PLASTIC PIPES.
7. FINISHED SURFACE LEVELS SHOWN ON LAYOUT PLAN DRGS TAKE PRECEDENCE OVER DESIGN DRAINAGE SURFACE LEVELS.
8. ALL PIPES UP TO AND INCLUDING 300 DIA. SHALL BE SOLVENT OR RUBBER RING JOINTED PVC CLASS SH PIPE AS TAB. ALL OTHER PIPES TO BE RCP USING CLASS 2 RUBBER RING JOINTED PIPE. HANDLES RCP PIPE MAY BE USED FOR LAY OF RCP IF DESIGNED IN GROUND. ALL RENTAL PIPES TO BE PVC CLASS SH.

FLUSHING POINT (FP)



10. ALL PITS, GRASPS AND PAINES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND TO BE IN ACCORDANCE WITH AS3590.3 AND AS3996.
11. PIT CHAMBER DIMENSIONS ARE TO BE SELECTED TO SATISFY THE FOLLOWING:
 - PPE SIZE
 - PIT CHAMBER INTERIOR
 - SKEW ANGLE

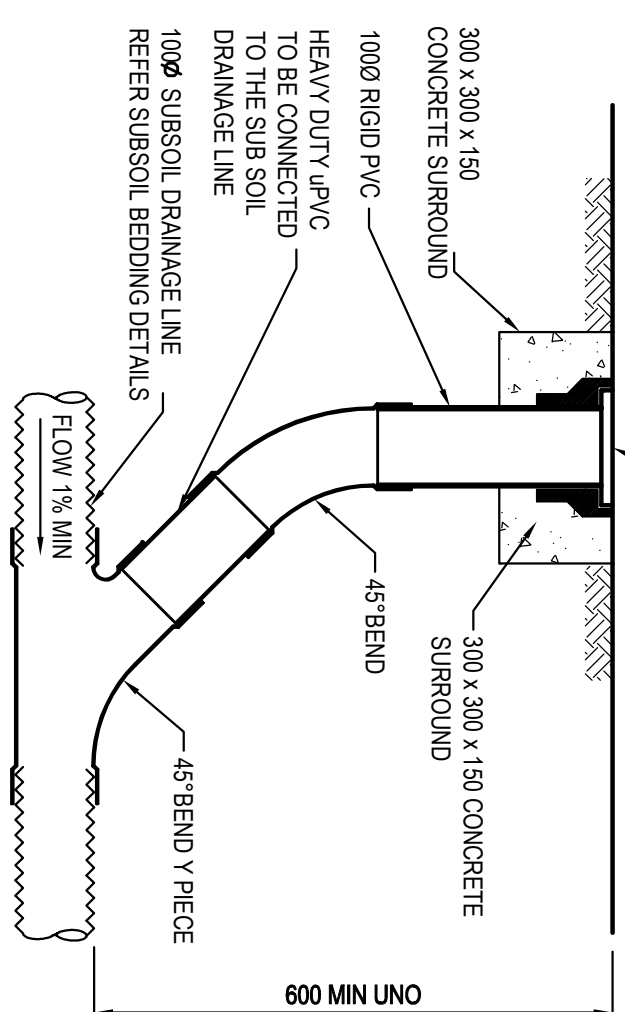
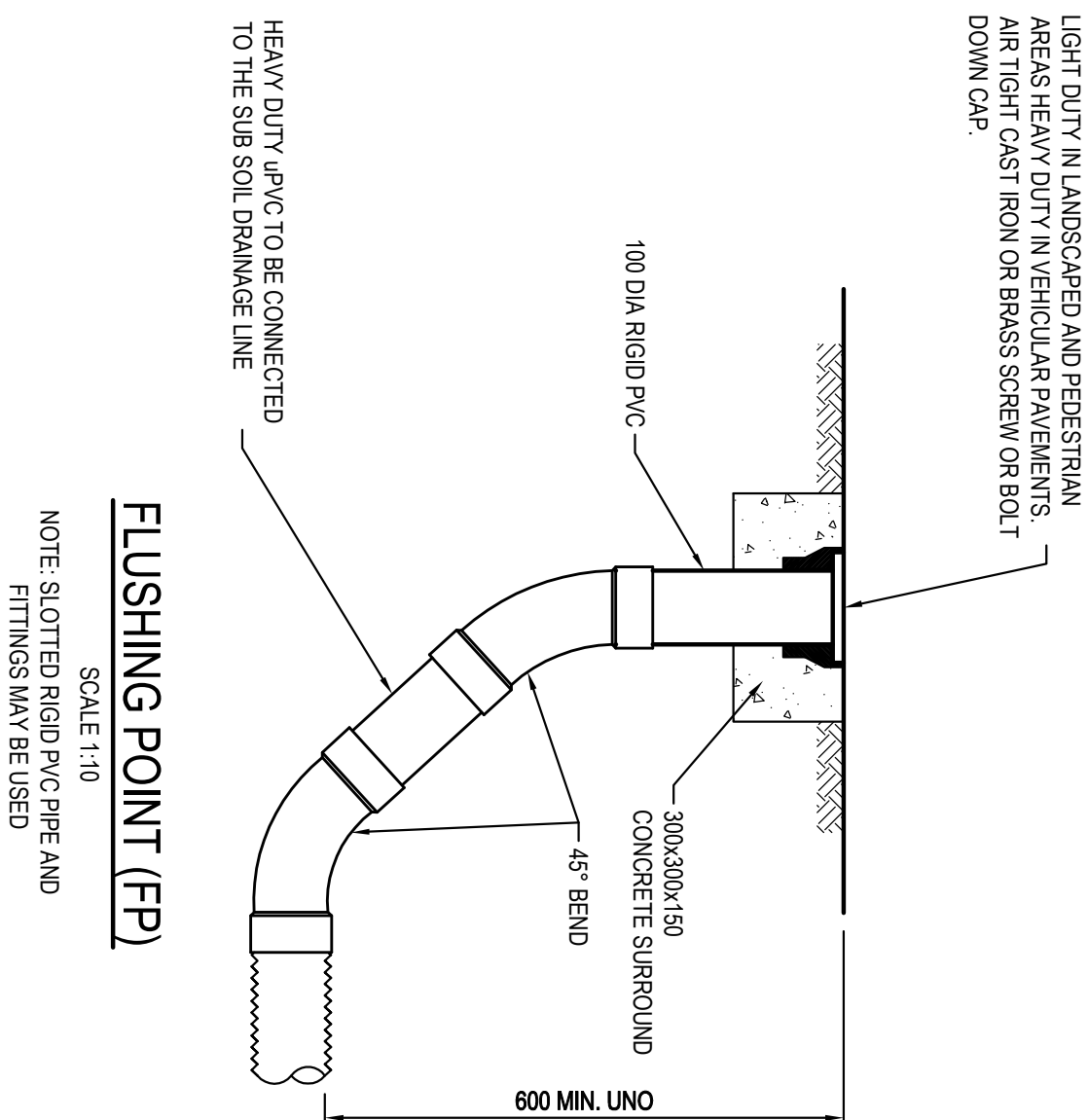
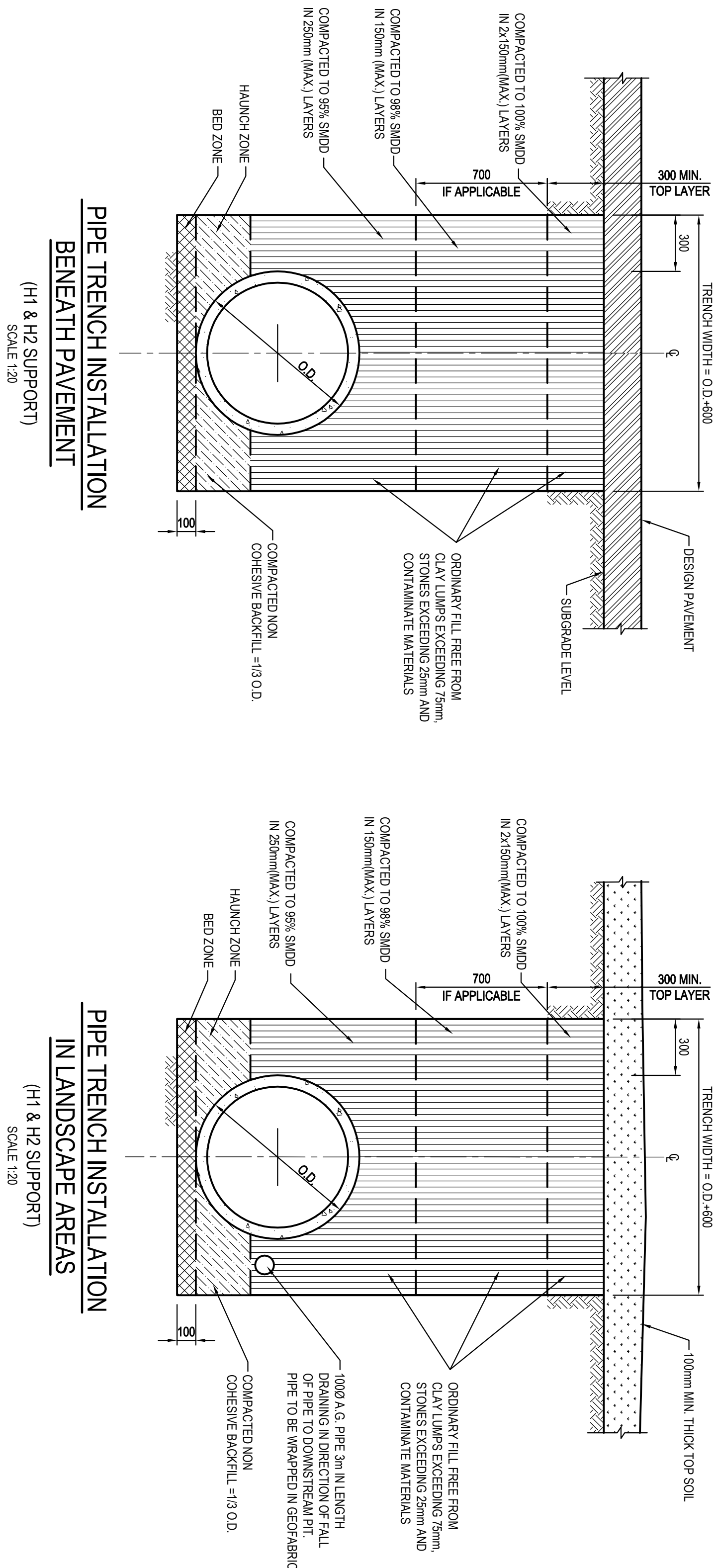
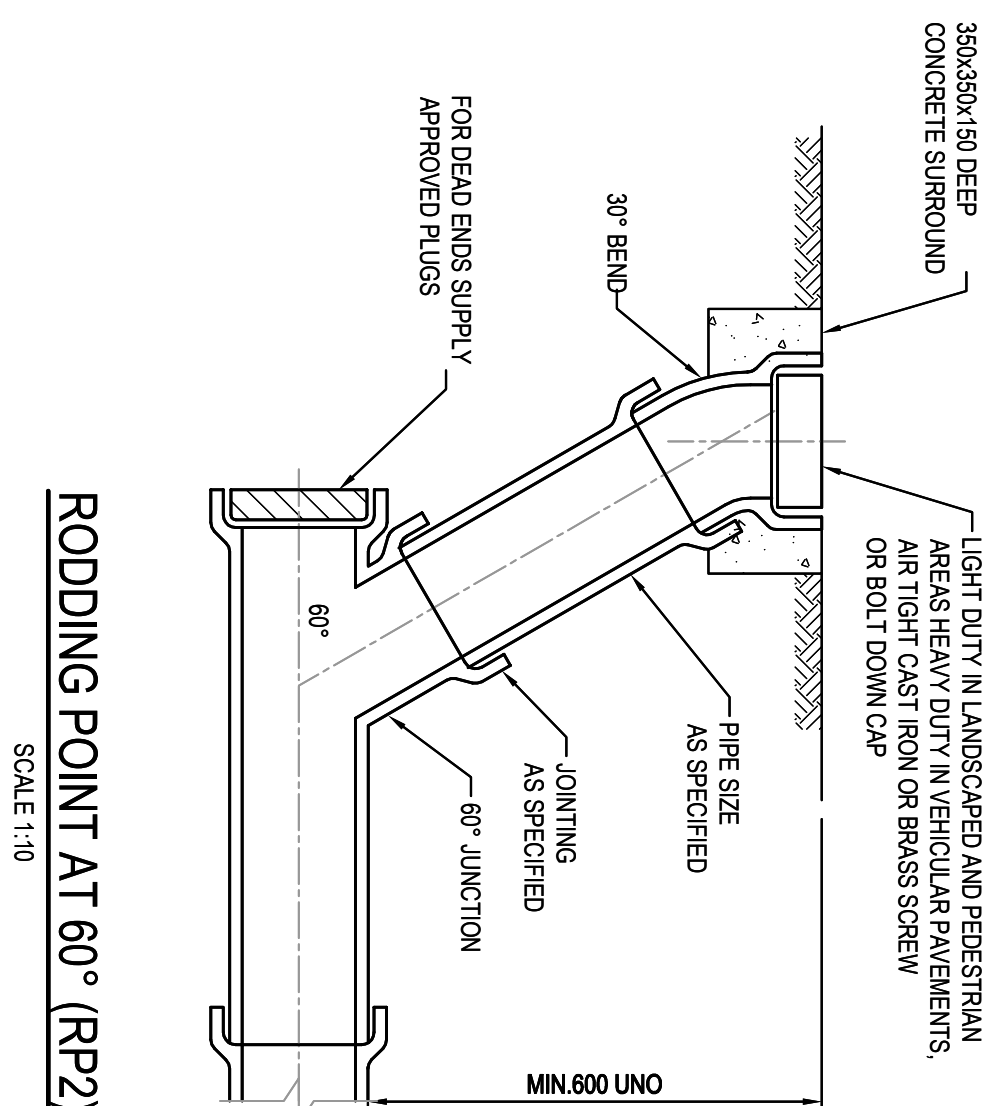
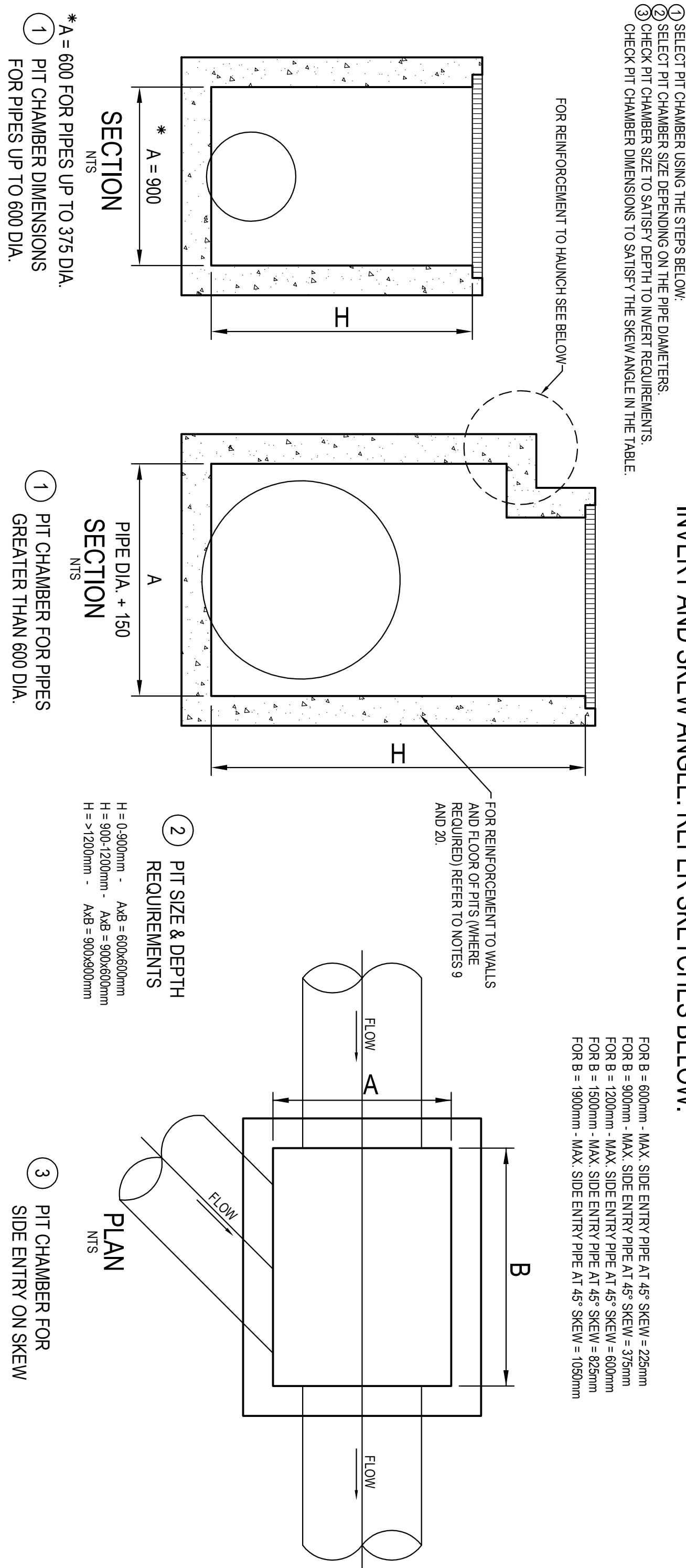
REFER PIT CHAMBER DETAILS
IF PIT LID SIZE IS SMALLER THAN THE PIT CHAMBER SIZE THEN THE PIT LID IS TO BE CONSTRUCTED ON THE CORNER OF THE PIT CHAMBER WITH THE STEEL RAILS DIRECTLY BELOW. ALTERNATIVELY THE PIT LID TO BE USED, IS TO BE THE SAME SIZE AS THE PIT CHAMBER.

12. FOR PIPE SIZES GREATER THAN 600mm, PIT FLOOR IS TO BE REINFORCED TO FACILITATE FLOW.
13. GALVANIZED STEEL RINGS SHALL BE PROVIDED AT 300 CTRS FOR PITS HAVING A DEPTH EXCEEDING 1200mm.
14. SUBSOIL DRAINAGE PIPE RINGS SHALL BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES. (MINIMUM LENGTH 3m).
15. ALL SUBSOIL PIPES SHALL BE 100mm SLOTTED PVC IN A FILTER SOCK. UNO, WITH 3m INSTALLED UPSTREAM OF ALL PITS.
16. ALL PIPEWORK SHALL HAVE MINIMUM DIAMETER 100.
17. MINIMUM GRADE FOR ROOFWATER DRAINAGE LINES SHALL BE 1%.
18. ALL PIPE JOINTS AND TAPER UP TO AND INCLUDING 300 DIA. SHALL BE VIA PURPOSE MADE FITTINGS.
19. ALL ROOF DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH ASS3900 PART 3 TESTING TO BE UNDERTAKEN AND REPORTS PROVIDED TO THE SUPERINTENDENT.
20. LOCATION OF THE DIRECT DOWN PIPE CONNECTIONS MAY VARY ON SITE TO SUIT SITE CONDITIONS, WHERE CONNECTION SHOWN ON LIND SECTIONS CHANGES ARE INDICATIVE ONLY.
21. LOCATION OF THE DIRECT DOWN PIPE CONNECTIONS MAY VARY ON SITE TO SUIT SITE CONDITIONS, WHERE CONNECTION SHOWN ON LIND SECTIONS CHANGES ARE INDICATIVE ONLY.
22. PITS IN EXCESS OF 1.5m DEEP TO HAVE WALL AND FLOOR THICKNESS INCREASED TO 200mm. REINFORCED WITH N12@200 CTRS. CENTRALLY PLACED BOTH WAYS THROUGHOUT. LAYOUT ON SEPARATE DESIGN DRAWINGS IN THIS SET. IF DEPTH EXCEEDS 5m CONTACT ENGINEER.
23. SUBSOIL DRAINAGE LINES FOR LANDSCAPE AREA NOT SHOWN ON THESE DRAWINGS. REFER TO LANDSCAPING PLANS FOR DETAILS.
24. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.

FOR REVIEW ONLY

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IT IS THE CONTRACTORS RESPONSIBILITY TO SELECT PIT CHAMBER SIZE WITH REGARDS TO PIPE SIZE, DEPTH TO INVERT AND SKEW ANGLE. REFER SKETCHES BELOW.

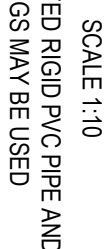


PIT LID SCHEDULE	
PIT NUMBER	DESCRIPTION
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2-1	
A-3	
C-1	
B-1	INLET PIT WITH 900x900 HINGED LIGHT DUTY HEEL PROOF GRADED LD CLASS "B" WITHIN OSD TANK IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.
B-1	
B-3	
B-4	
GS-1	150mm WIDE MEDIUM DUTY GRADED GRAIN AND MEDIUM DUTY FRAME CLASS "B" IN ACCORDANCE WITH COUNCILS REQUIREMENTS.
GS-2	
EX-1	EXISTING PIT
EX-2	
EX-3	
EX-4	
C-2	SAG KEEP INLET PIT WITH 1.8m INLET AND MEDIUM DUTY GRADED LD CLASS "C" IN ACCORDANCE WITH LOCAL COUNCILS REQUIREMENTS.

DRAINAGE NOTES:

1. ALL STORMWATER WORK TO COMPLY WITH AS 3500 PART 3.
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3. PROTECTION OF PIPES DUE TO LOADS EXCEEDING 17 WHEEL LOAD SHALL BE THE CONTRACTORS RESPONSIBILITY.
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8. ALL PIPES UP TO AND INCLUDING 300 DIA. SHALL BE SOLVENT OR RUBBER RING JOINTED PVC CLASS SH PIPE AS TAB. ALL OTHER PIPES TO BE RCP USING CLASS 2 RUBBER RING JOINTED PIPE. HANDLES HRC PIPE MAY BE USED FOR LAY OF RCP IF DESIGNED IN GROUND. ALL RENTAL PIPES TO BE PVC CLASS SH.

FLUSHING POINT (FP)



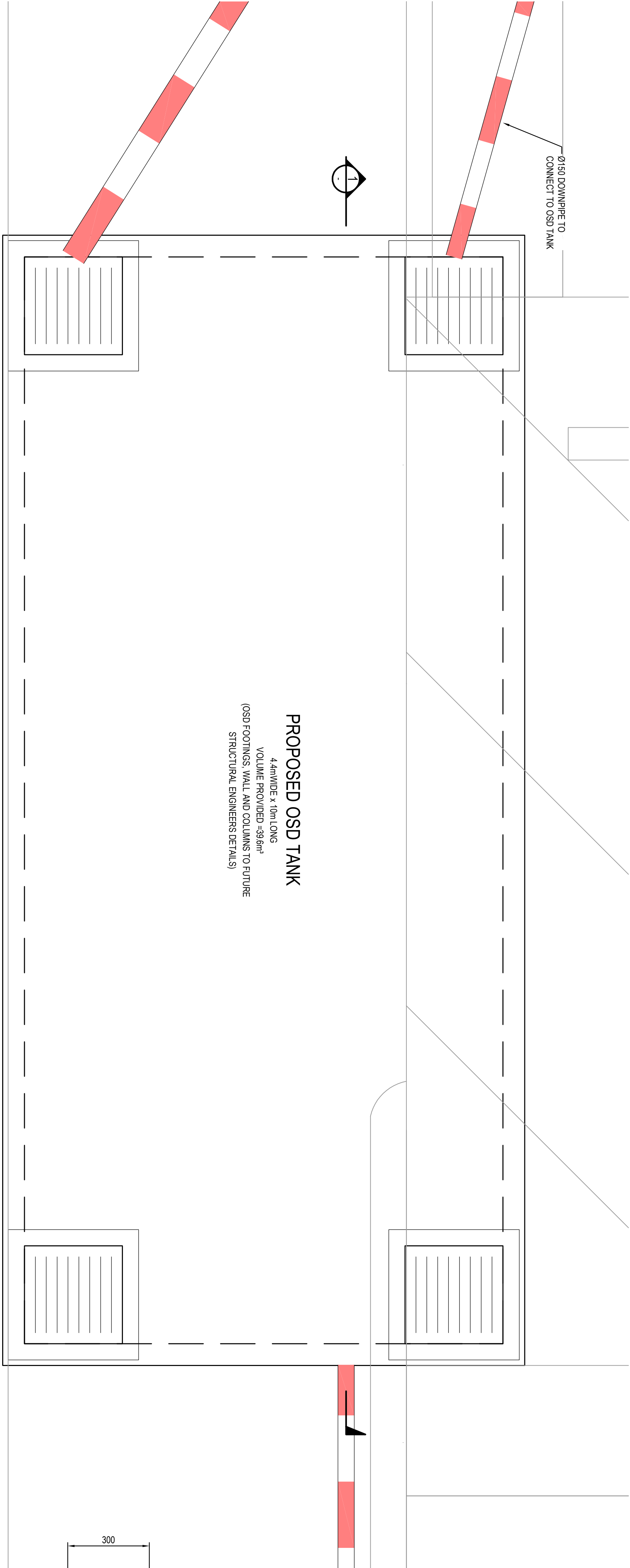
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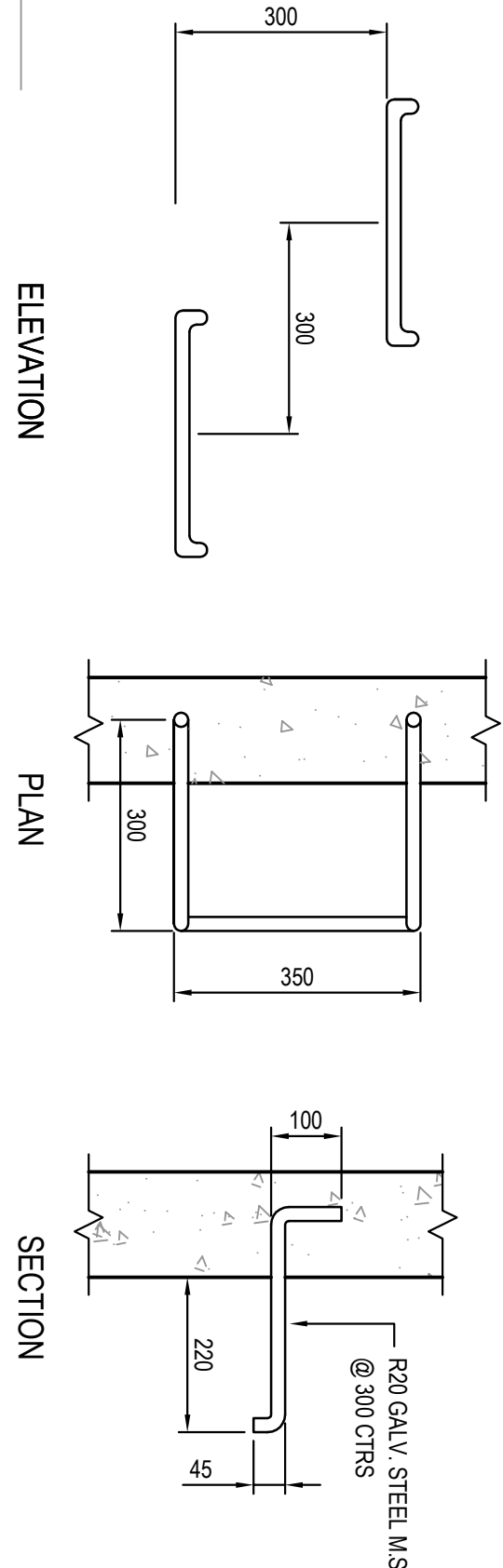
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13. GALVANIZED STEEL RINGS SHALL BE PROVIDED AT 300 CTRS FOR PIPS HAVING A DEPTH EXCEEDING 1200mm.
14. SUBSOL DRAINAGE PIPE RINGS SHALL BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES. (MINIMUM LENGTH 3m).
15. ALL SUBSOL PIPES SHALL BE 100mm SLOTTED PVC IN A FILTER SOCK. UNO, WITH 3m INSTALLED UPSTREAM OF ALL FITS.
16. ALL PEENWOK SHALL HAVE MINIMUM DIAMETER 100.
17. MINIMUM GRADE FOR ROOFWATER DRAINAGE LINES SHALL BE 1%.
18. ALL PIPE JUNCTIONS AND TAPER UP TO AND INCLUDING 300 DIA. SHALL BE VIA PURPOSE MADE FITTINGS.
19. ALL ROOF DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH ASS3901 PART 3 TESTING TO BE UNDERTAKEN AND REPORTS PROVIDED TO THE SUPERINTENDENT.
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24. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.

FOR REVIEW ONLY

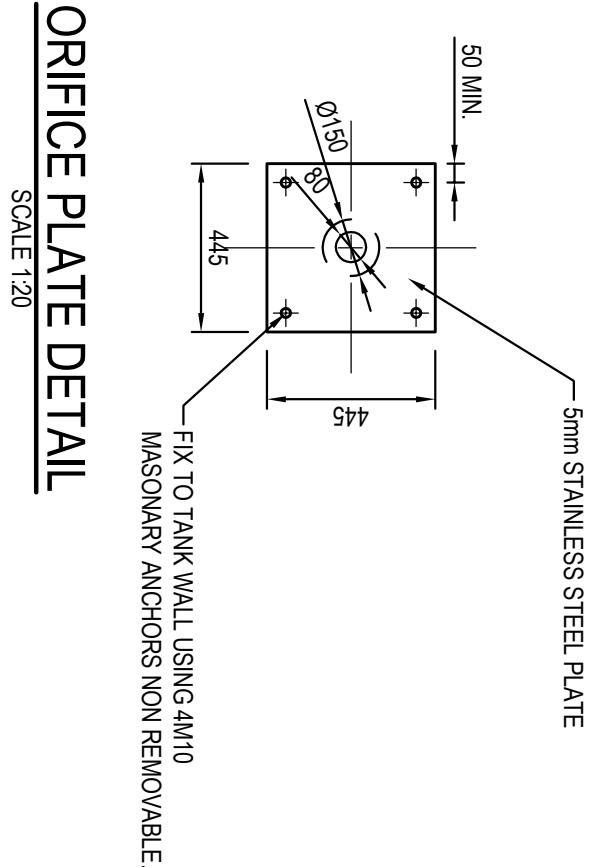
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PROPOSED OSD TANK
4.4m WIDE x 10m LONG
VOLUME PROVIDED = 39.6m³
(OSD FOOTINGS, WALL AND COLUMNS TO FUTURE
STRUCTURAL ENGINEERS DETAILS)

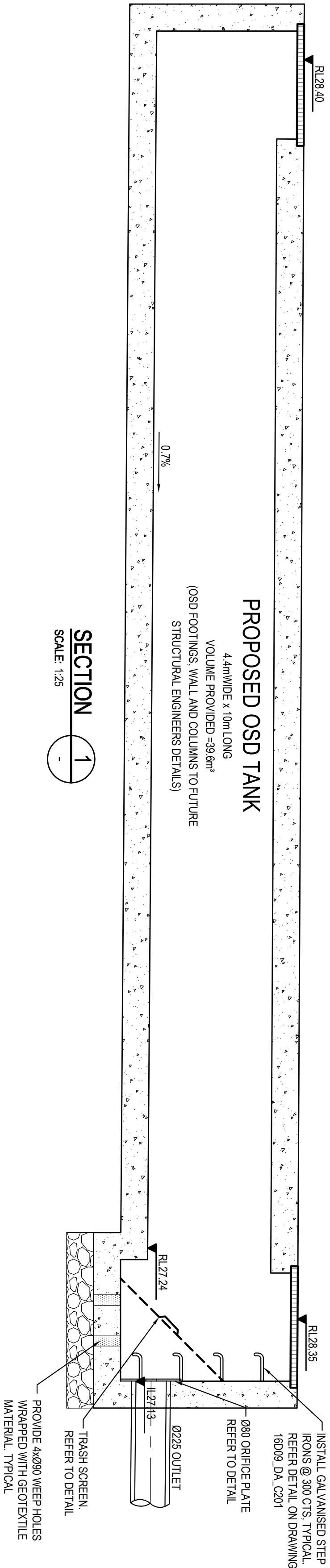


TYPICAL STEP IRON DETAIL
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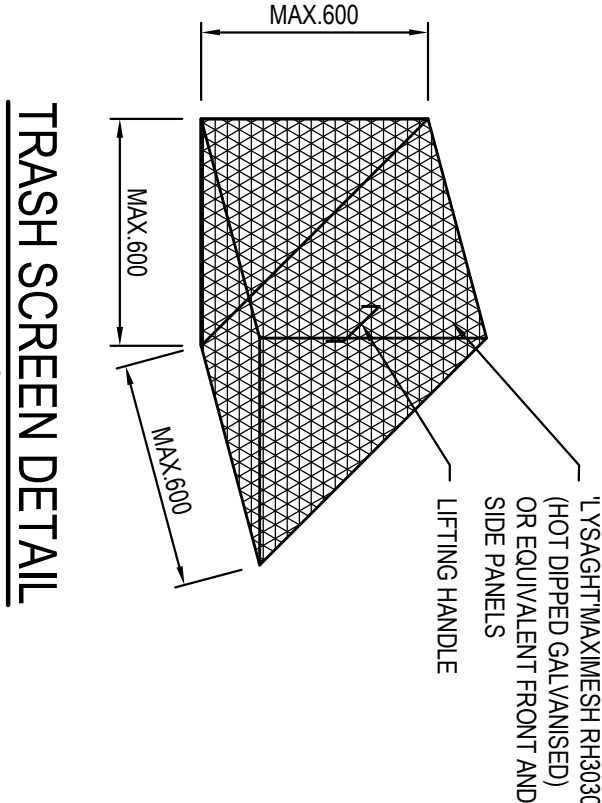


ORIFICE PLATE DETAIL
SCALE 1:20

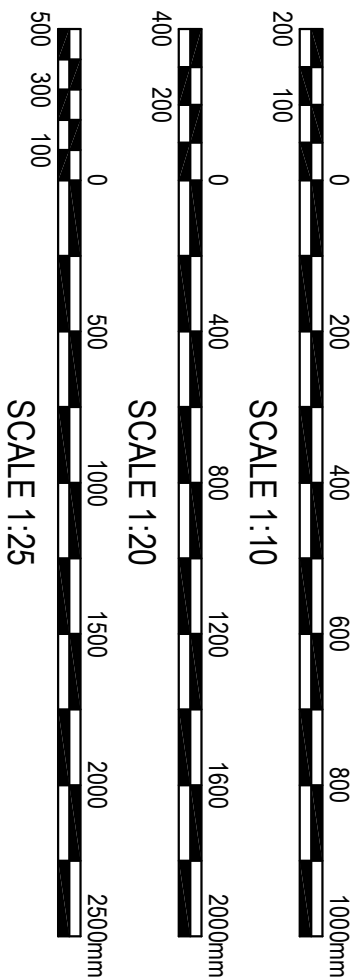
OSD TANK
SCALE 1:25



SECTION 1
SCALE 1:25

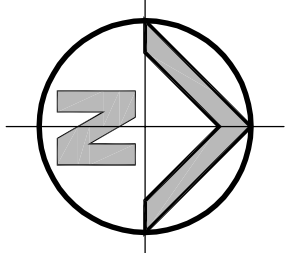


- TRASH SCREEN NOTES**
- MAXIMESH SCREENS MUST BE PLACED SUCH THAT THE LONG AXIS OF THE OVAL SHAPED HOLES ARE ORIENTATED TO THE FLOW OF WATER, PREVENTING UP ANGED UPWARDS AND FACING TOWARDS THE OUTLET
 - THE SCREEN IS TO BE FORMED BY WELDING TWO TRIANGULAR MAXIMESH (OR EQUIVALENT) PANELS TO A RECTANGULAR FRONT MAXIMESH PANEL (OR EQUIVALENT)



SURVEY INFORMATION				Client			
SURVEYED BY HILLSBLUME				AUSTICI DEVELOPMENT PTY LTD			
DRAWN AND CHECKED BY				Project			
02 ISSUED FOR DA				77-79 WALDRON ROAD			
01 ISSUED FOR REVIEW				CHESTER HILL			
REVISION				OSD SECTION AND DETAILS			
AMENDMENT				Drawn			
DRAWN DESIGNED DATE REVISION				Checked			
AMENDMENT				Approved			
DRAWN DESIGNED DATE REVISION				Scale			
AMENDMENT				AS NOTED @ A1			
DRAWN DESIGNED DATE				Revision			
AMENDMENT				16D09_DA_C201			
DRAWN DESIGNED DATE				02			

FOR DA ONLY

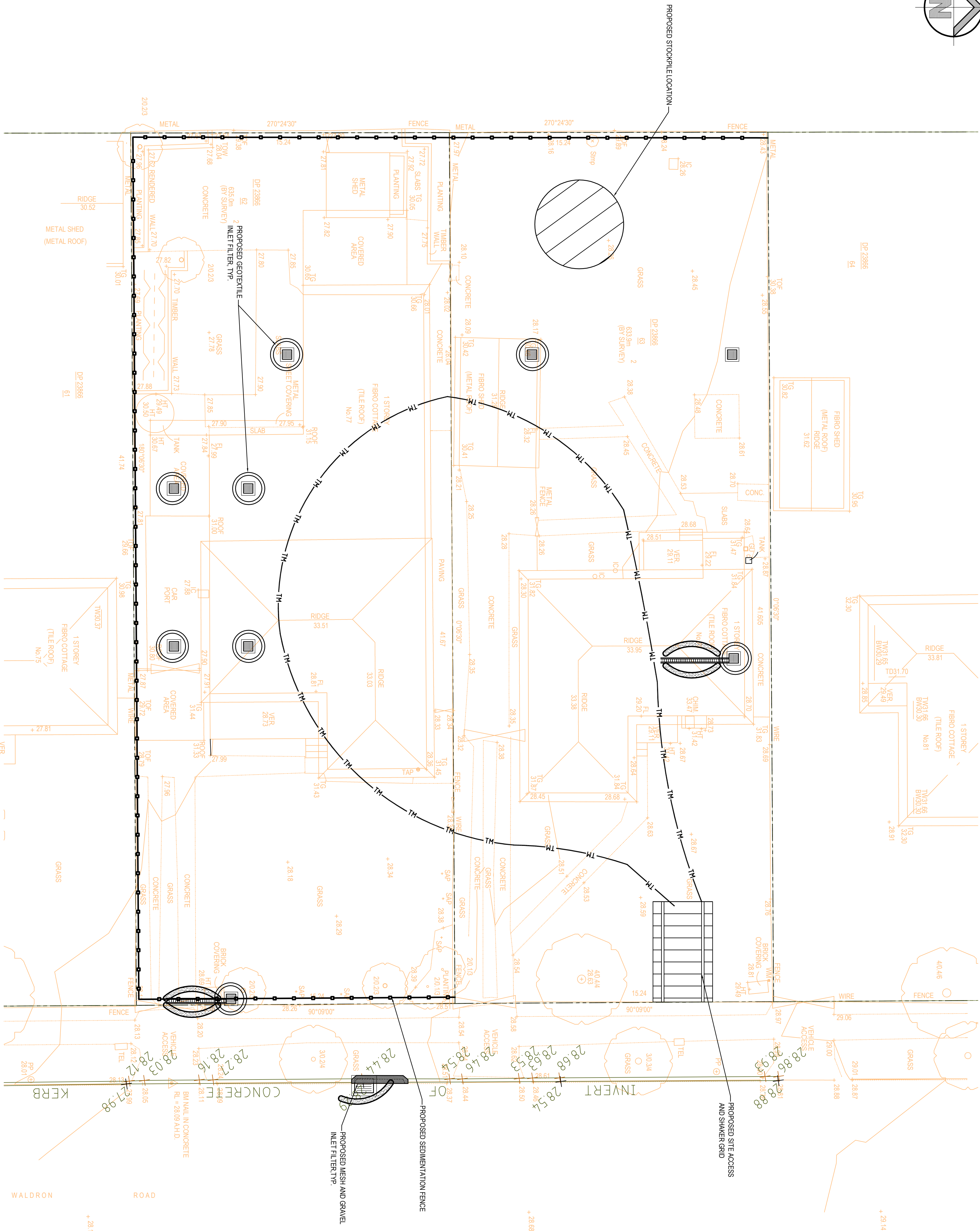


LEGEND

- TRAFFIC MANOEUVRING
- PROPOSED SEDIMENTATION FENCE
- PROPOSED VEHICLE SHAKER GRID
- PROPOSED STOCKPILE LOCATION
- PROPOSED MESH & GRAVEL INLET FILTER
- PROPOSED GEOTEXTILE INLET FILTER

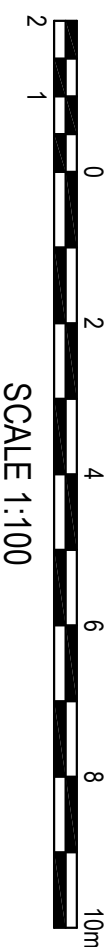
SEDIMENT & EROSION CONTROL NOTES

- ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED PLACED AND MAINTAINED IN ACCORDANCE WITH RESPECTIVE COUNCIL SPECIFICATIONS AND LANDCOMS SOIL AND CONSTRUCTION MANUAL.
- ALL PERIMETER & SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN EARTH WORKS AND/OR CLEARING.
- THE SEDIMENT & EROSION CONTROL PLAN MAY REQUIRE FUTURE ADJUSTMENT TO REFLECT CONSTRUCTION STAGING. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO PREPARE THEIR OWN SEDIMENT AND EROSION CONTROL PLAN WHICH SUITS THE DESIGNED CONSTRUCTION STAGING.
- PERIMETER CONTROL MEASURES ARE TO BE FENCED OFF AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
- ALL TEMPORARY EARTH BERM, DIVERSIONS & SILT DAM/EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED & MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
- ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING. TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE LOCATION.
- ALL TOPSOIL IS TO BE STOCKPILED ON SITE FOR REUSE AWAY FROM TREES AND SHRUBBAGE LINES. MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE SLOPE.
- ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO SEAL THE EARTHWORKS. ALL FILLS ARE TO BE BELT WITH A/LP AT THE TOP OF THE SLOPE AT THE END. ALL CUT 14 DAYS OF COMPLETION OF FORMATION UN.O. BY LANDSCAPE ARCHITECTS.
- UPON COMPLETION OF ALL EARTHWORKS OR AS DIRECTED BY COUNCIL SOIL CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.
- EROSION AND SILT PROTECTION MEASURES ARE TO BE MAINTAINED AT ALL TIMES.

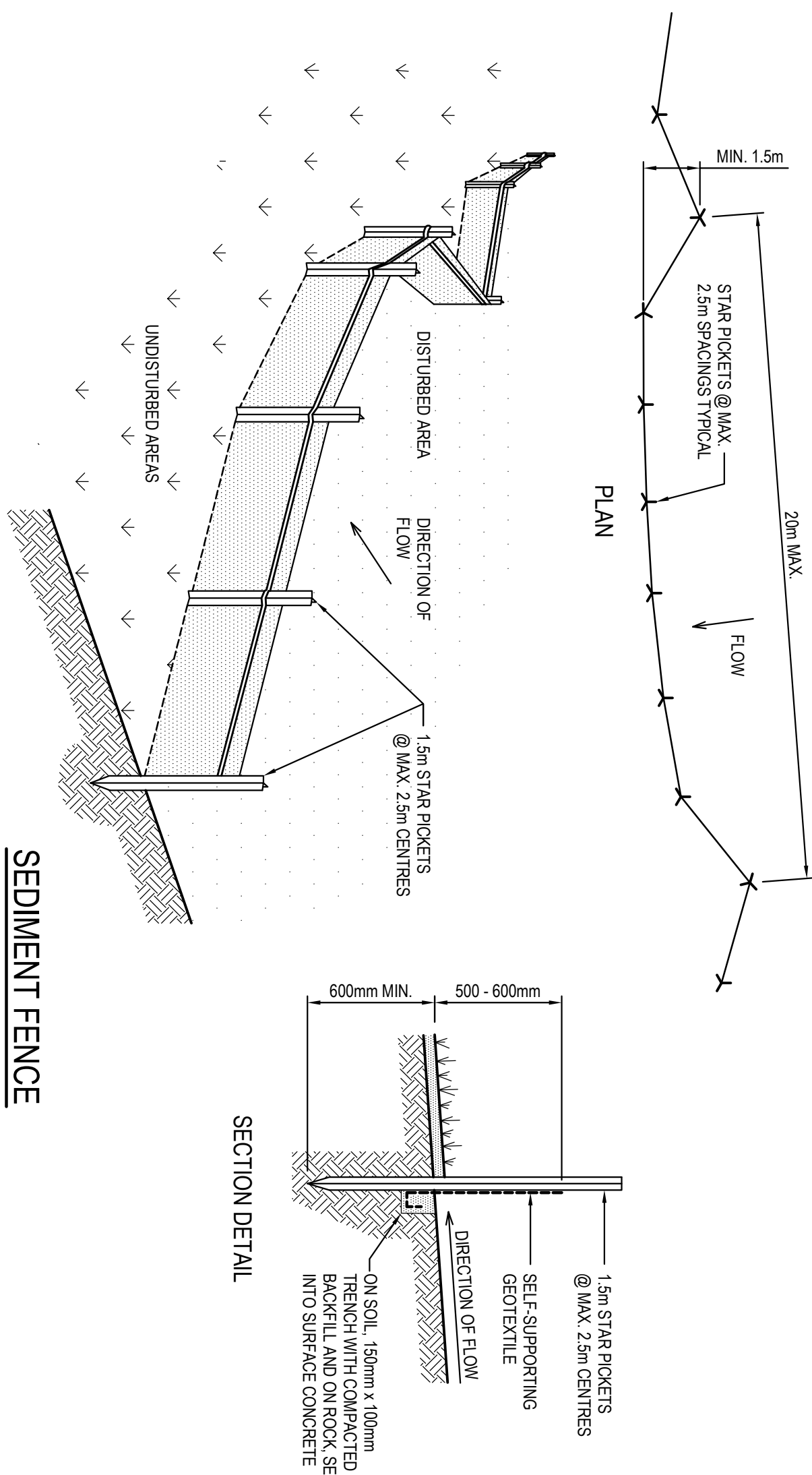


SEDIMENT & EROSION CONTROL PLAN

SCALE 1:100

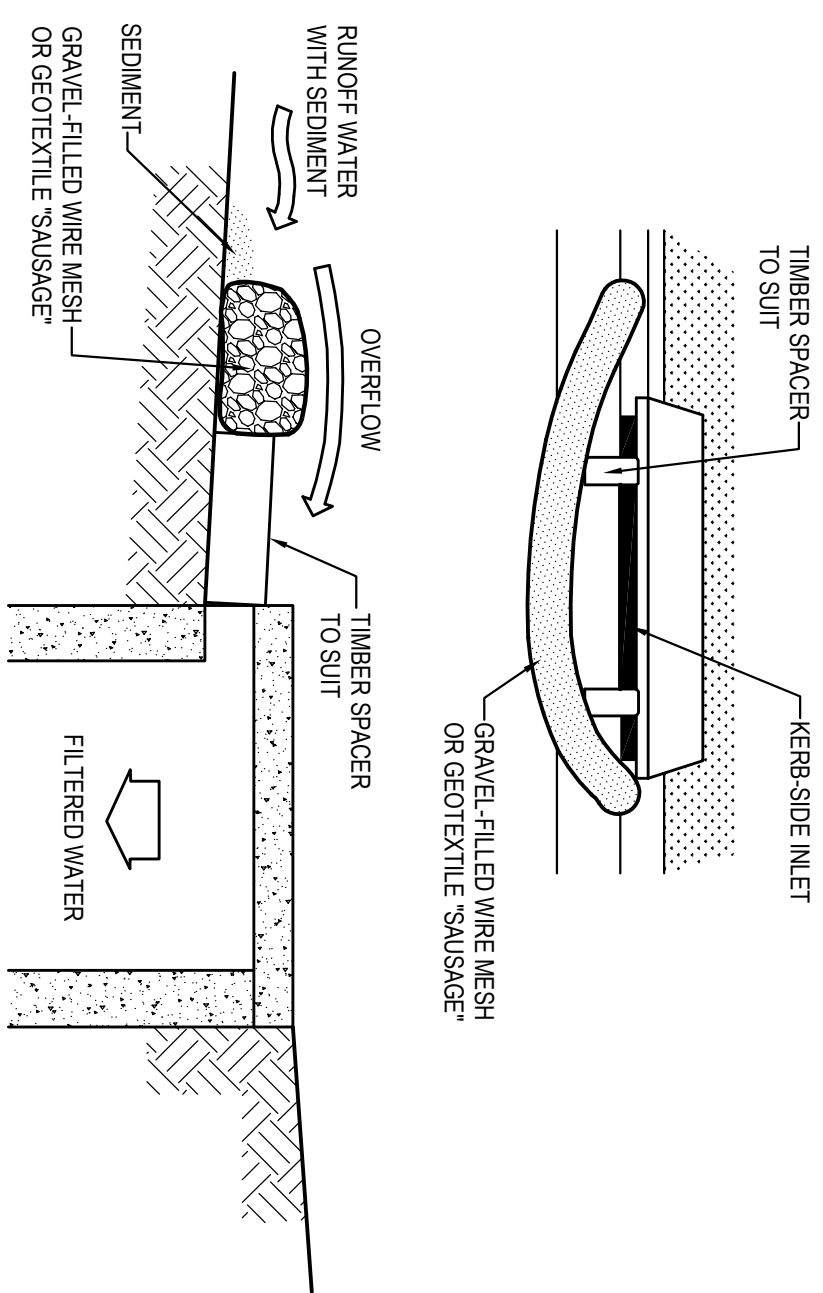


SURVEY INFORMATION				Client				Project			
SURVEYED BY HIL & BLUME				AUSTICI DEVELOPMENT PTY LTD				77-79 WALDRON ROAD			
ORIGIN OF LINES: SSM 0557 / R/L2703 AHD				PTI				SEDIMENT & EROSION CONTROL PLAN			
DATE: AHD				The drawing and design remains the property of Henry & Hyman and may not be copied in whole or in part without the prior written approval of Henry & Hyman.				Drawn: M. Corra			
REVISION								Checked: J. Gentry			
AMENDMENT								Approved: T. Richardson			
DATE								Scale: 1:100 @ A1			
DESIGNED								Drawn: M. Corra			
DATE								Checked: J. Gentry			
REVISION								Approved: T. Richardson			
AMENDMENT								Scale: 1:100 @ A1			
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- SEDIMENT FENCE CONSTRUCTION NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE 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 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE. LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAP PICKETS INTO GROUND @ 2.5m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF TRENCH. ENSURE ANY STAP PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POIS 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 & BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

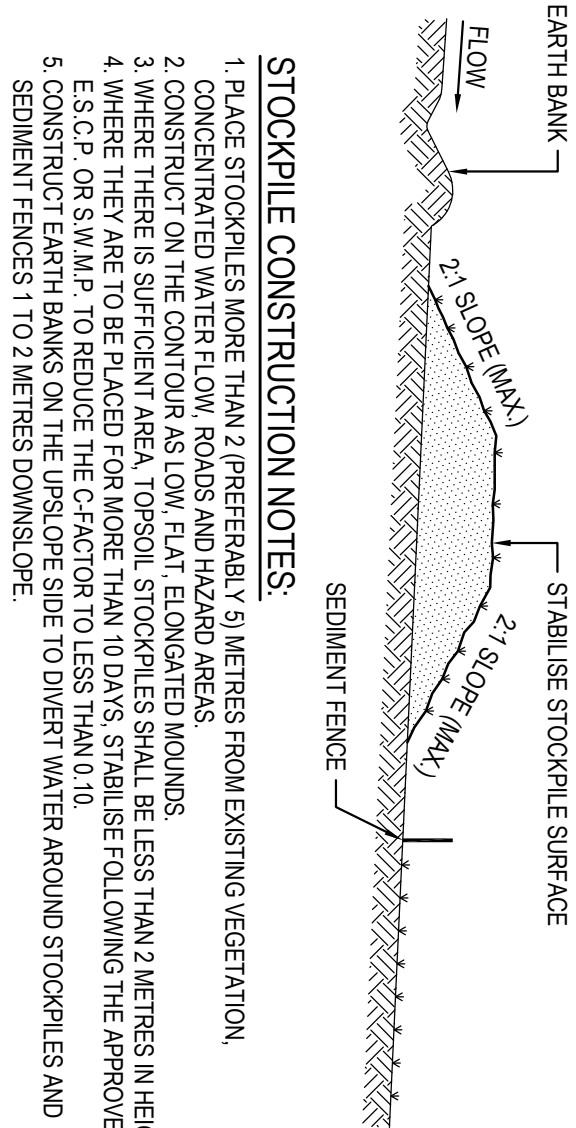


- ## MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES

1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILT IT WITH 25mm to 50mm GRAVEL.
2. FORM AN ULLPHERAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
3. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET.
4. FORM A SLEEV WITH THE KERB TO PREVENT SEDIMENT FROM ENTERING THE FILTER.
5. SANDPANS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY CAN FREELY ALLOW EACH OTHER AND SEDIMENT / LAIDEN WATERS CANNOT PASS BETWEEN.

MESH & GRAVEL INLET FILTER

SCALE N.T.S.

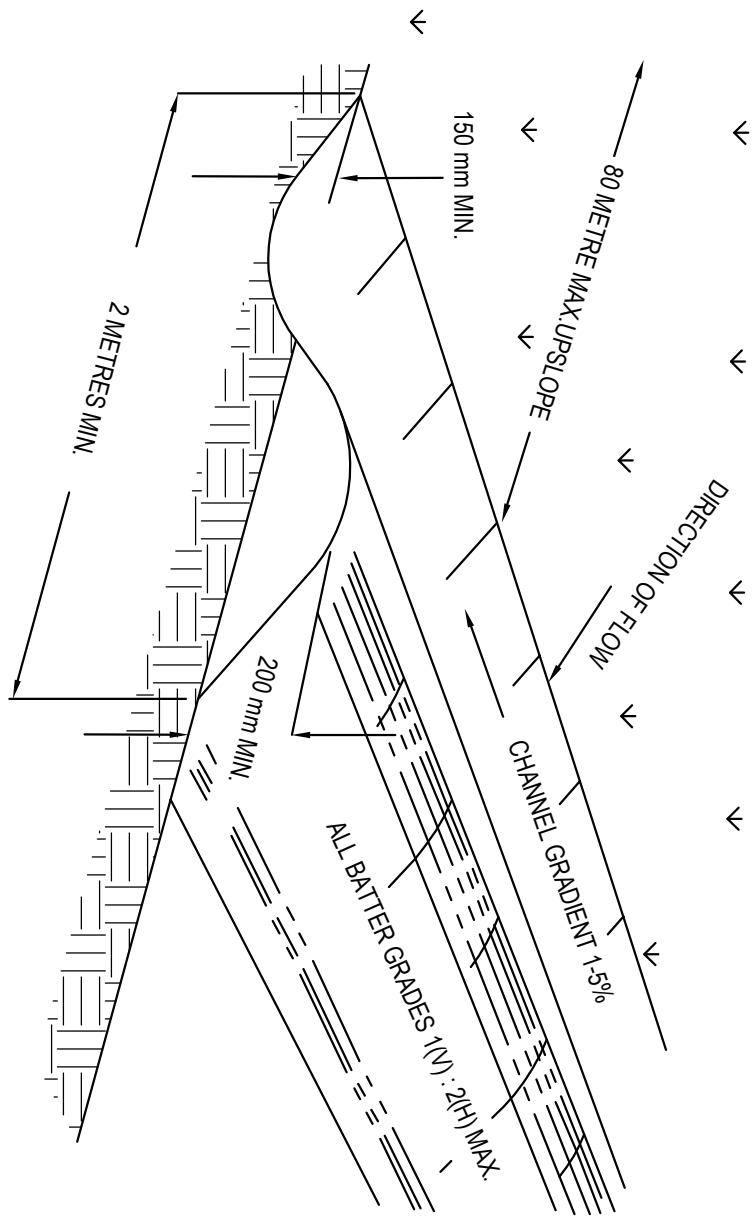


- ## STOCKPILE CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2' (PREFERABLY 3' METERS FROM EXISTING VEGETATION,
2. CONCENTRATED WATER FLOW, ROADS AND HAZARDOUS AREAS.
3. CONSTRUCT ON THE CONTOUR AS LOW FLAT, SLOUGHED ROUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPO STOCKPILES SHALL BE LESS THAN 2 METERS IN HEIGHT
4. WHERE THEY ARE TO BE PLACED FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED E.S.C. OR SW/MP
5. TO REDUCE THE C-FACTOR TO LESS THAN 0.10
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES TO 2 METERS DOWN SLOPE.

STOCKPILES

SCALE N.T.S



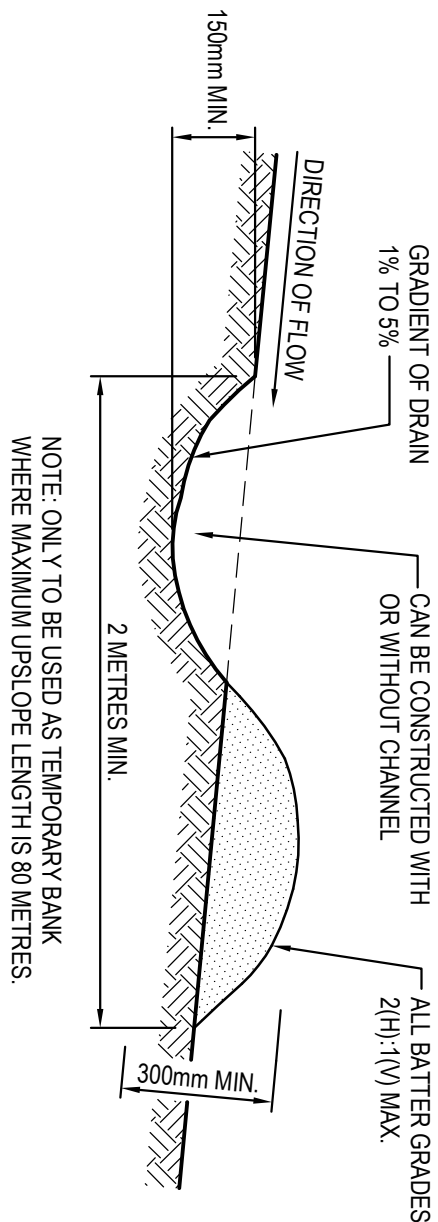
- NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE
MAC.UPSLOPE LENGTH IS 80 METERS.

- ## CATCH DRAIN CONSTRUCTION NOTES

- 1
- 2 MAXIMUMS BEING BETWEEN BANKS SHALL BE 80 METERS.
- 3 BANKS TO BE OF PLEISTOCENE OR TRIASSIC/CRETACEOUS NOT V-SHAPED.
- 4 EARTH BANKS TO BE ADEQUATELY COMPACTED IN ORDER TO PREVENT FAILURE.
- 5 CONSTRUCTION IS OF A TEMPORARY NATURE AND SHALL BE COMPLETED AT THE END A DAY'S WORK OR
- 6 IMMEDIATE REPAIRS.
- 7 ALL OUTLETS FROM DISTURBED LANDS ARE TO FEED INTO SEDIMENT BASIN OR SIMILAR
- 8 DISCHARGE RUNOFF COLLECTED FROM UNDISTURBED LANDS INTO EITHER A DRAINAGE OR AN UNDISTURBED
- 9 DISPOSAL, SITE WITHIN THE SAME SUB-CATCHMENT AREA FROM WHICH THE WATER ORIGINATED.
- 10 COMPACT WITH A SUITABLE IMPLEMENT IN SITUATIONS WHERE THERE ARE REQUIRED TO FUNCTION FOR MORE
- 11 THAN FIVE DAYS.
- 12 EARTH BANKS TO BE FREE OF PROTECTIONS OR OTHER IRREGULARITIES THAT WILL IMPED NORMAL FLOW.

CATCH DRAINS SD 5-8

SCALE N.T.S



- EARTH BANK CONSTRUCTION NOTES:

1. BUILD WITH GRADIENTS BETWEEN 1% AND 5%.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPED WATER FLOW.
4. BUILD THE DAMS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS-SECTIONS, NOT V-SHAPED.
5. ENSURE DAMS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

EARTH BANK (LOW FLOW)

N.T.S.

SURVEY INFORMATION										Client									
SURVEYED BY HILL&LUMME										AUSTICI DEVELOPMENT PTY LTD									
DATE: 14/01/2017										Architect									
ORIGIN OF DETAILS: SSN154501, RL23.705 AHD										PTI									
ISSUED FOR: A4										The drawing and design remains the property of Henry & Hyman and may not be copied in whole or in part without the prior written approval of Henry & Hyman.									
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