



21F99_DA_C101

MONA VALE ROAD

SCALE: 1:400



ORIGIN OF LEVELS: PM 50080 RL 199.895

Client	HILLS MARKETPLACE PTY LTD.
Architect	BN
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GENERAL ARRANGEMENT PLAN

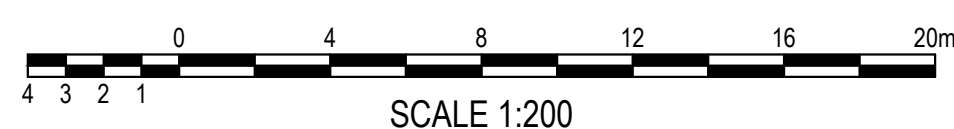
Drawing number	Revision
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21F99_DA_C100	10
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	EXISTING BOUNDARY
	EXTENT OF WORKS
	PROPOSED JUNCTION PITS
	PROPOSED SURFACE INLET PITS
	PROPOSED LINTEL ONGRADE & SAG PITS
	PROPOSED PIT TAG
	STORMWATER UPSTREAM INVERT RL
	STORMWATER PIPE DIAMETER & CLASS
	STORMWATER PIPE LENGTH
	STORMWATER PIPE GRADE
	STORMWATER DOWNSTREAM INVERT RL
	EXISTING STORMWATER PIPE
	PROPOSED STORMWATER PIPE
	EXISTING STORMWATER PIPE TO BE DEMOLISHED
	EXISTING CONTOURS
	PROPOSED CONTOURS
	PROPOSED SPOT LEVEL
	PROPOSED RIDGE LINE
	PROPOSED VALLEY LINE
	EXISTING ELECTRICAL MAINS LINE
	EXISTING GAS LINE
	EXISTING SEWER LINE
	EXISTING TELSTRA LINES
	EXISTING WATER LINE
	EXISTING PITS
	PROPOSED BATTER LINE
	PROPOSED RETAINING WALL
	PROPOSED FENCE LINE



SCALE: 1:200



ORIGIN OF LEVELS: PM 50080 RL 199.895

CO	ISSUE	17/11/2020
DRAWN	DESIGNED	DATE

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Title
DETAIL PLAN
SHEET 2 OF 2

21F99_DA_C102	1
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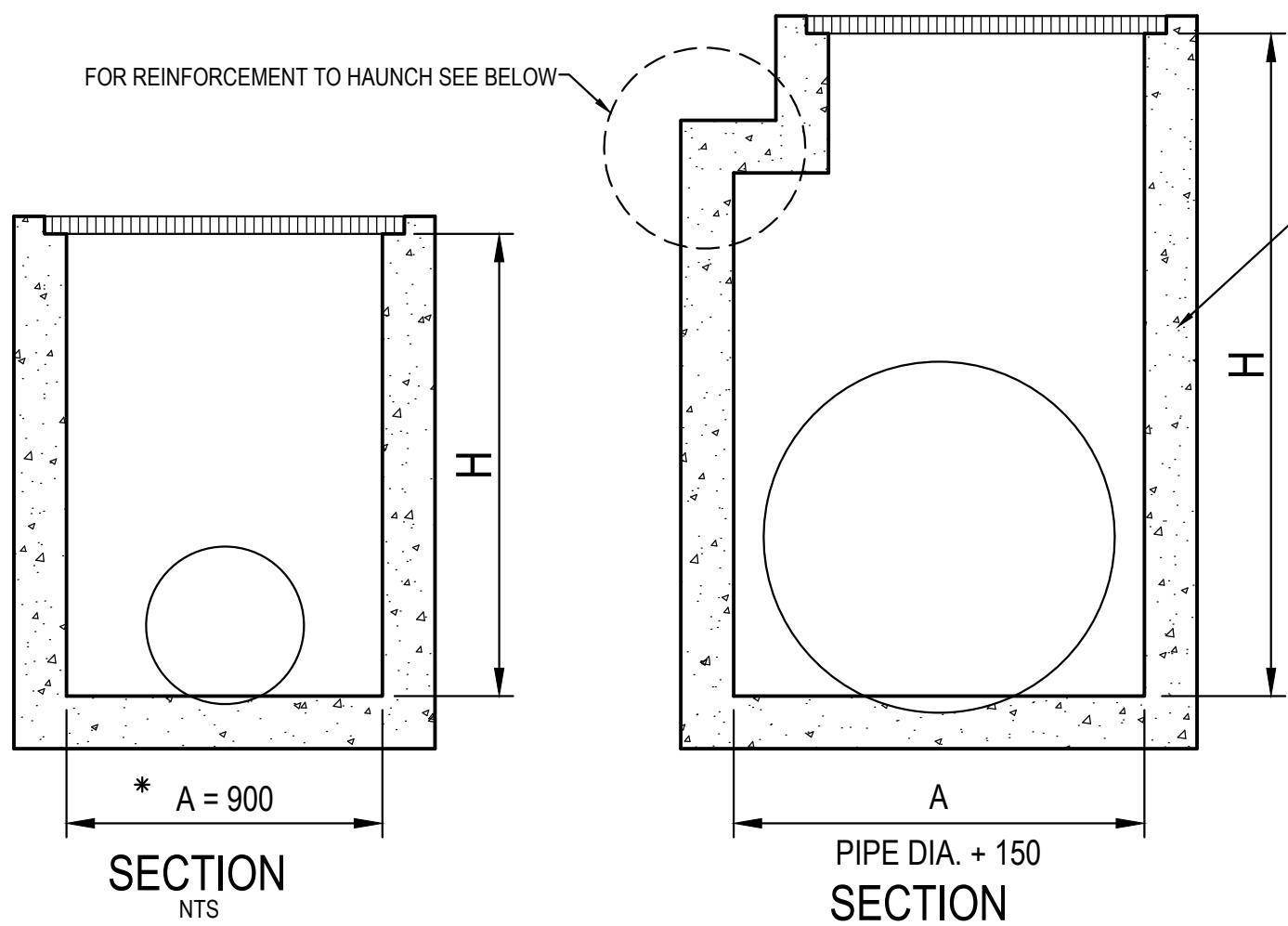
FOR DA ONLY

TYPICAL PIT CHAMBER SIZES

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

- SELECT PIT CHAMBER USING THE STEPS BELOW.
- SELECT PIT CHAMBER SIZE DEPENDING ON THE PIPE DIAMETERS.
- CHECK PIT CHAMBER SIZE TO SATISFY DEPTH TO INVERT REQUIREMENTS.
- CHECK PIT CHAMBER DIMENSIONS TO SATISFY THE SKEW ANGLE IN THE TABLE.

FOR B = 600mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 225mm
FOR B = 900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 375mm
FOR B = 1200mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 600mm
FOR B = 1500mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 825mm
FOR B = 1900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 1050mm



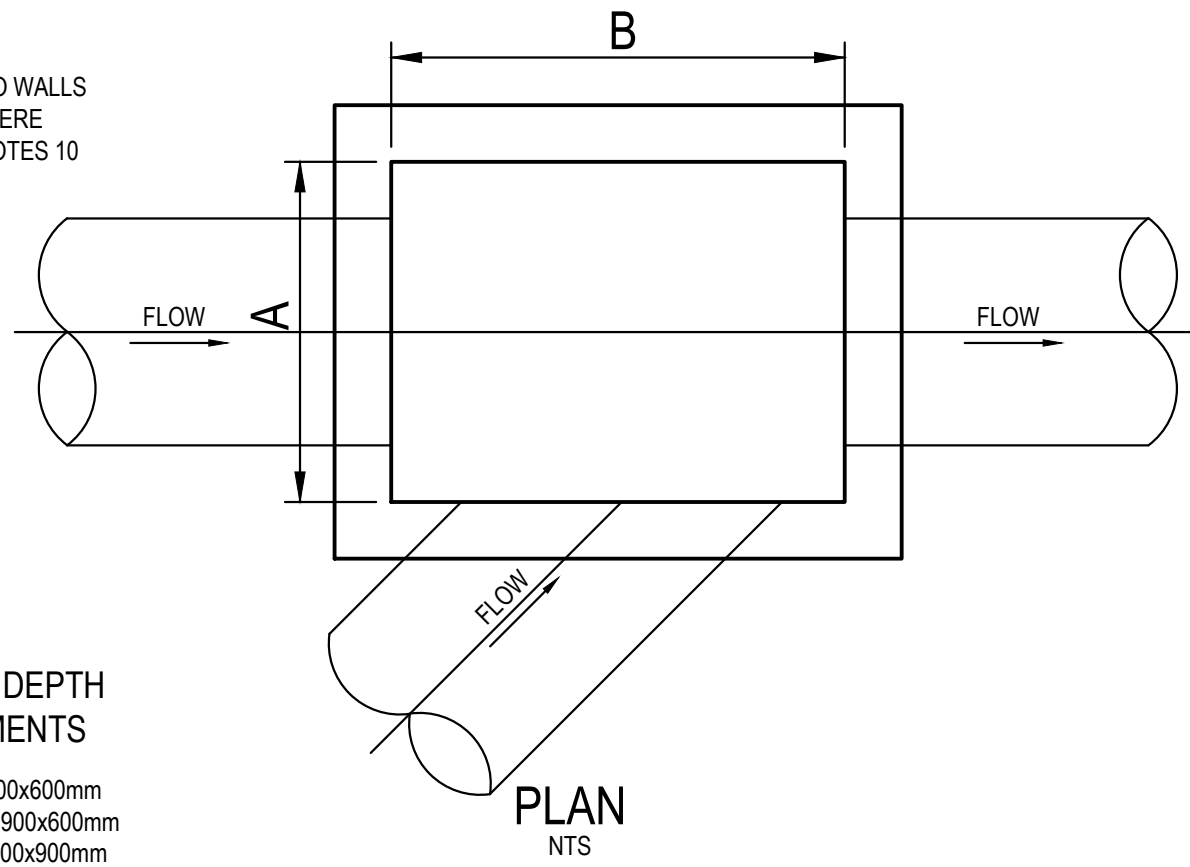
*A = 600 FOR PIPES UP TO 375 DIA.

- PIT CHAMBER DIMENSIONS FOR PIPES UP TO 600 DIA.

- PIT CHAMBER FOR PIPES GREATER THAN 600 DIA.

PIT SIZE & DEPTH REQUIREMENTS

H = 0-900mm - Ax B = 600x600mm
H = 900-1200mm - Ax B = 900x600mm
H = >1200mm - Ax B = 900x900mm



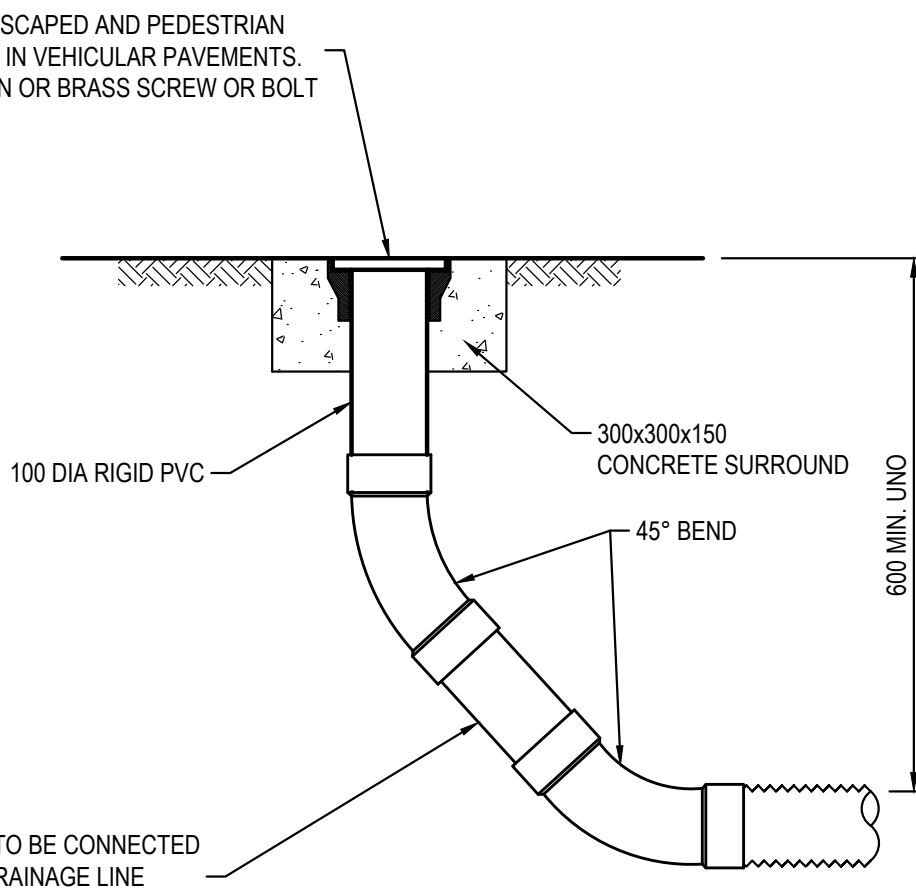
- PIT CHAMBER FOR SIDE ENTRY ON SKEW

TABLE 1	
SIEVE SIZE (MM)	WEIGHT PASISNG (%)
75.0	100
9.5	100 TO 50
2.36	100 TO 30
0.60	50 TO 15
0.075	25 TO 0

TABLE 2	
SIEVE SIZE (MM)	WEIGHT PASISNG (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

TABLE 3				
SUPPORT TYPE	BED ZONE X	HAUNCH ZONE Y	BED AND HAUNCH ZONES COMPACTION	MAX BEDDING FACTOR
HS1	100 IF D<=1500, OR 150 IF D>=1500	0.1D	50	2.0
HS2		0.3D	60	2.5
HS3		0.3D	70	4.0

LIGHT DUTY IN LANDSCAPED AND PEDESTRIAN AREAS
HEAVY DUTY IN VEHICULAR PAVEMENTS.
AIR TIGHT CAST IRON OR BRASS SCREW OR BOLT DOWN CAP.



FLUSHING POINT (FP)

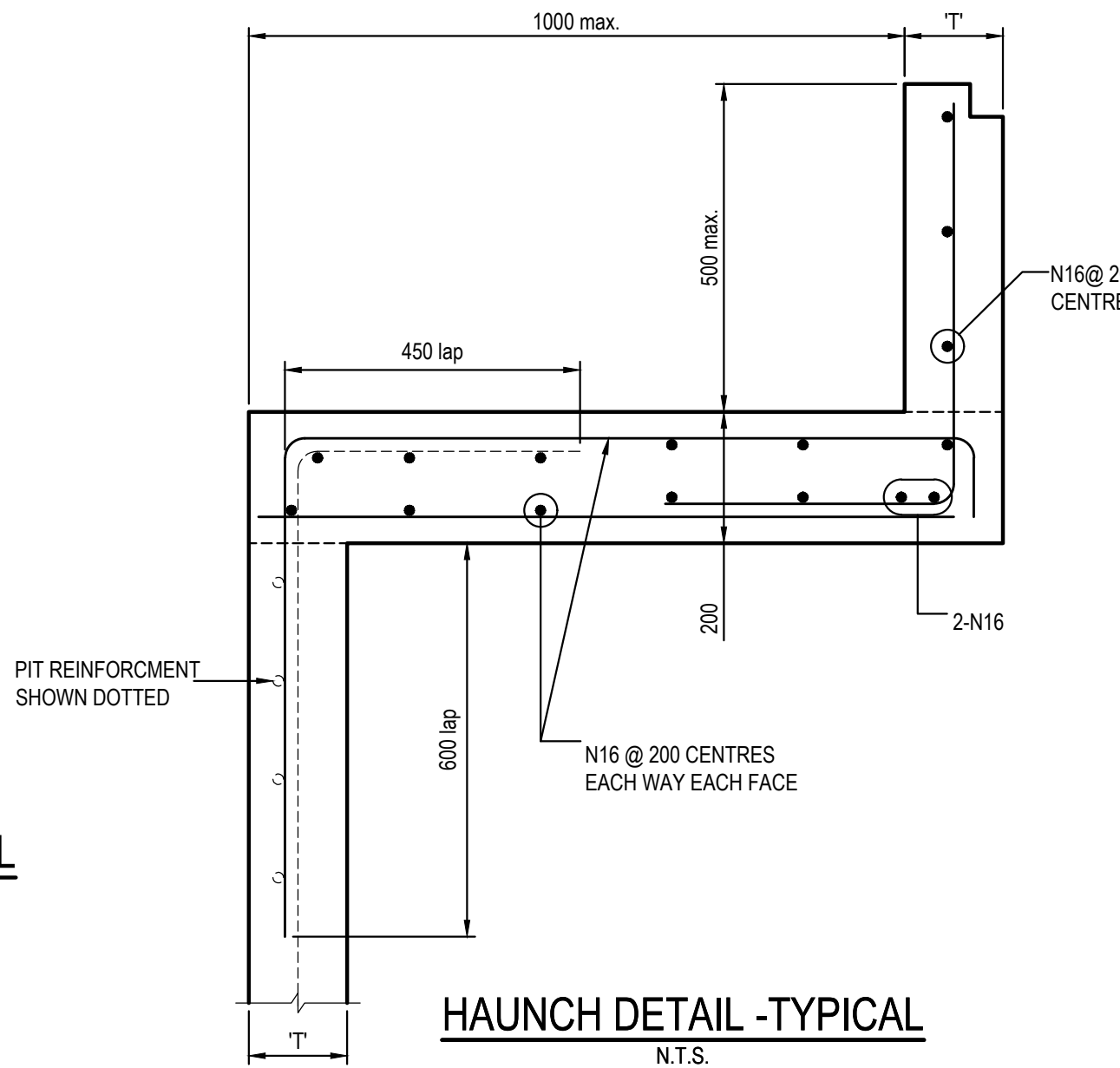
SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED

PIT LID SCHEDULE

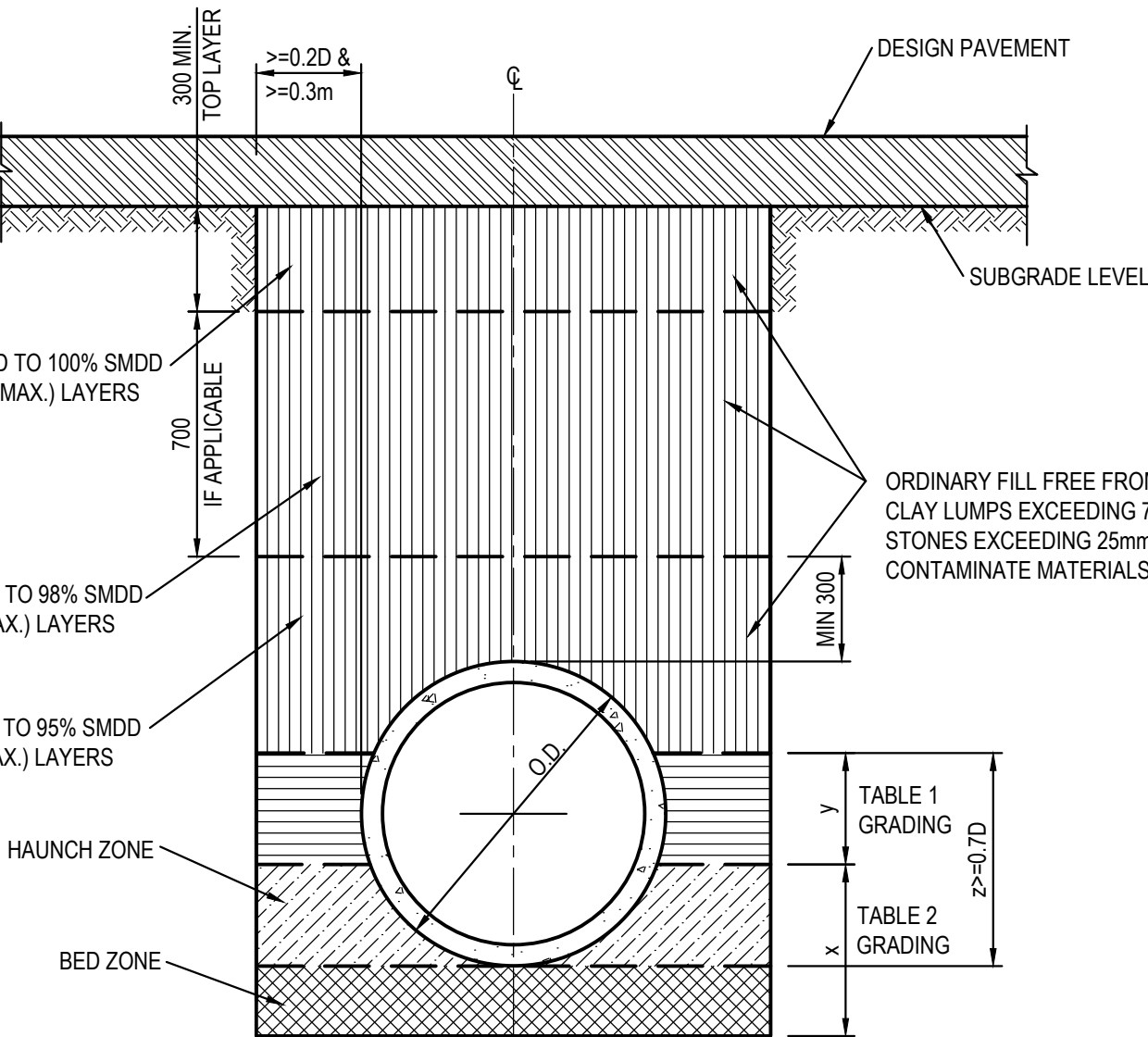
PIT/STRUCTURE NUMBER	DESCRIPTION
A-1	PROPOSED INLET PIT WITH 600x900 HINGED LIGHT DUTY GRATED CLASS "B" IN ACCORDANCE WITH WOLLONGONG CITY COUNCIL REQUIREMENTS.
C-2	PROPOSED 1.2m KERB INLET PIT WITH 900x450 INLET GRATE HEAVY DUTY CLASS "D" IN ACCORDANCE WITH WOLLONGONG CITY COUNCIL REQUIREMENTS.
C-1	PROPOSED JUNCTION PIT WITH 1200x1200 HEAVY DUTY SEALED LID CLASS "D" IN ACCORDANCE WITH WOLLONGONG CITY COUNCIL REQUIREMENTS.
EX-1	EXISTING PIT TO BE RETAINED.
E-1	PROPOSED INLET PIT WITH 900x900 HINGED LIGHT DUTY GRATED CLASS "B" IN ACCORDANCE WITH WOLLONGONG CITY COUNCIL REQUIREMENTS.

DRAINAGE NOTES:

- ALL STORMWATER WORK TO COMPLY WITH AS 3500 PART 3.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM COVER OF 600mm ON ALL PIPES.
- PROTECTION OF PIPES DUE TO LOADS EXCEEDING W7 WHEEL LOAD SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 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.
- MINIMUM COVER OVER EXISTING PIPES FOR PROTECTION DURING CONSTRUCTION SHALL BE 800mm.
- NO CONSTRUCTION LOADS SHALL BE APPLIED TO PLASTIC PIPES.
- FINISHED SURFACE LEVELS SHOWN ON LAYOUT PLAN DRGS TAKE PRECEDENCE OVER DESIGN DRAINAGE SURFACE LEVELS.
- ALL PIPES UP TO AND INCLUDING 300 DIA. SHALL BE SOLVENT OR RUBBER RING JOINTED PVC CLASS SH PIPE TO AS1260. ALL OTHER PIPES TO BE RCP USING CLASS 2 RUBBER RING JOINTED PIPE. HARDIES FRC PIPE MAY BE USED IN LIEU OF RCP IF DESIRED IN GROUND. ALL AERIAL PIPES TO BE PVC CLASS SH.
- ALL PITS IN NON TRAFFICABLE AREAS TO BE PREFABRICATED POLYESTER CONCRETE "POLYCRETE" WITH "LIGHT DUTY" CLASS B GALV. MILD STEEL GRATING AND FRAME.
ALL PITS IN TRAFFICABLE AREAS (CLASS "D" LOADING MAX) TO HAVE 150mm THICK CONCRETE WALLS AND BASE CAST IN-SITU $f_{ck}=32$ MPa, REINFORCED WITH N12-200 BOTH LOADING WAYS CENTRALLY PLACE. U.N.O. ON SEPARATE DESIGN DRAWINGS IN THIS SET. GALV.MILD STEEL GRATING AND FRAME TO SUIT DESIGN LOADING. PRECAST PITS, RECTANGULAR OR CIRCULAR IN SHAPE, MAY BE USED IN LIEU AND SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS.
- ALL PITS, GRATINGS AND FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND TO BE IN ACCORDANCE WITH AS3500.3 AND AS3596.
- PIT CHAMBER DIMENSIONS ARE TO BE SELECTED TO SATISFY THE FOLLOWING:
- PIPE SIZE
- DEPTH TO INVERT
- SKEW ANGLE
REFER TYPICAL PIT CHAMBER DETAILS BELOW
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 STEP IRONS DIRECTLY BELOW. ALTERNATIVELY THE PIT LID TO BE USED, IS TO BE THE SAME SIZE AS THE PIT CHAMBER.
- FOR PIPE SIZES GREATER THAN Ø300mm, PIT FLOOR IS TO BE BENCHED TO FACILITATE FLOW.
- GALVANISED STEP IRONS SHALL BE PROVIDED AT 300 CTS FOR PITS HAVING A DEPTH EXCEEDING 1200mm. SUBSOIL DRAINAGE PIPE SHALL BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES. (MINIMUM LENGTH 3m).
- ALL SUBSOIL PIPES SHALL BE 100mm SLOTTED PVC IN A FILTER SOCK, UNO, WITH 3m INSTALLED UPSTREAM OF ALL PITS.
- ALL PIPEWORK SHALL HAVE MINIMUM DIAMETER 100.
- MINIMUM GRADE FOR ROOFWATER DRAINAGE LINES SHALL BE 1%.
- ALL PIPE JUNCTIONS AND TAPER UP TO AND INCLUDING 300 DIA. SHALL BE VIA PURPOSE MADE FITTINGS.
- ALL ROOF DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH AS3500, PART 3. TESTING TO BE UNDERTAKEN AND REPORTS PROVIDED TO THE SUPERINTENDENT.
- LOCATION OF THE DIRECT DOWN PIPE CONNECTIONS MAY VARY ON SITE TO SUIT SITE CONDITIONS, WHERE CONNECTION SHOWN ON LONG SECTIONS CHAINAGES ARE INDICATIVE ONLY.
- PITS IN EXCESS OF 1.5 m DEEP TO HAVE WALL AND FLOOR THICKNESS INCREASED TO 200mm. REINFORCED WITH N12@200 CTS CENTRALLY PLACED BOTH WAYS THROUGHOUT U.N.O.ON SEPARATE DESIGN DRAWINGS IN THIS SET. IF DEPTH EXCEEDS 5m CONTACT ENGINEER.
- SUBSOIL DRAINAGE LINES FOR LANDSCAPE AREA NOT SHOWN ON THESE DRAWINGS. REFER TO LANDSCAPING PLANS FOR DETAILS.
- ALL STORMWATER PITS TO HAVE Ø100 uPVC SLOTTED SUBSOIL PIPES CONNECTED TO THEM. THESE SUBSOILS TO EXTEND 3m UPSTREAM OF THE PIT AT A MINIMUM GRADE.



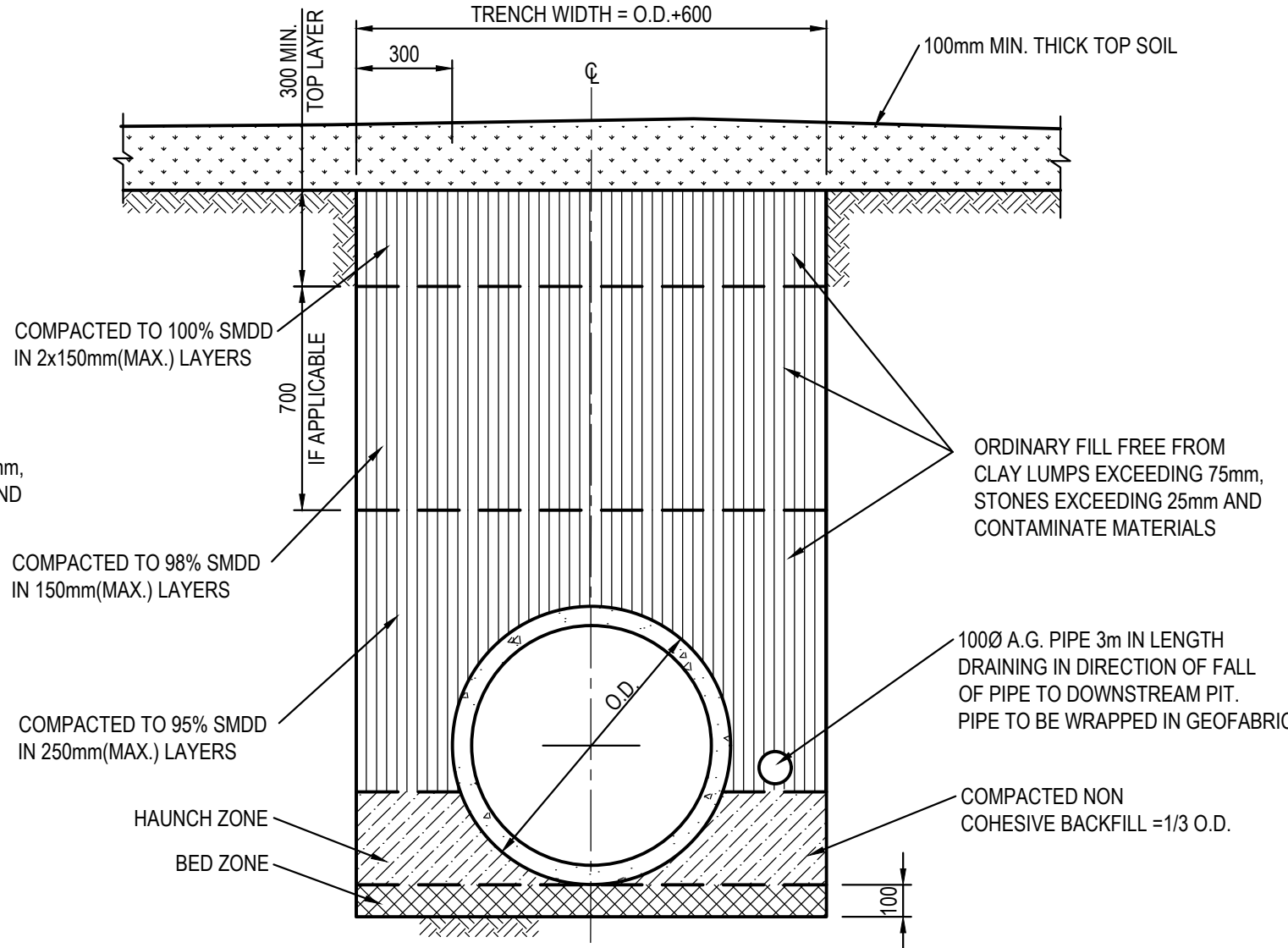
HAUNCH DETAIL -TYPICAL



PIPE TRENCH INSTALLATION BENEATH PAVEMENT

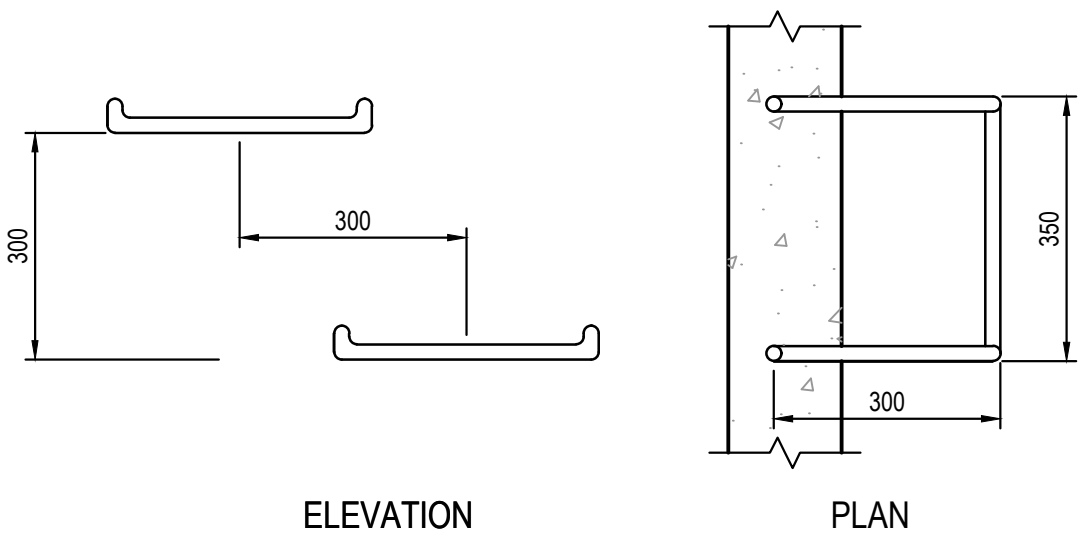
(HS SUPPORT TO BE USED UNDER ROADWAY)
SCALE 1:20

NOTE:
TYPE HS2 TO BE USED AS A TYPICAL SUPPORT FOR TRENCHES UNDER ROADWAY UNLESS SPECIFIED SEPERATELY



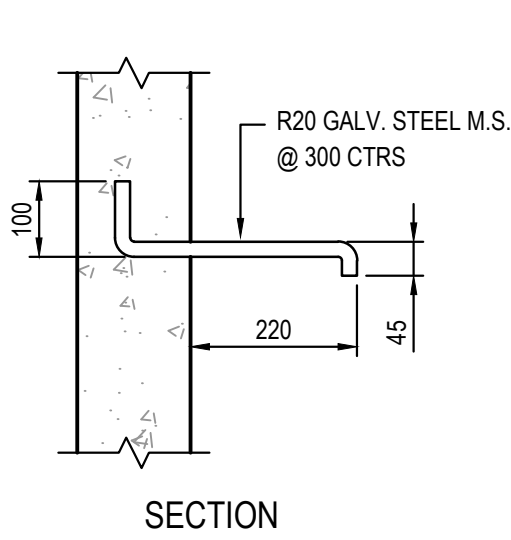
PIPE TRENCH INSTALLATION IN LANDSCAPE AREAS

(H1 & H2 SUPPORT)
SCALE 1:20



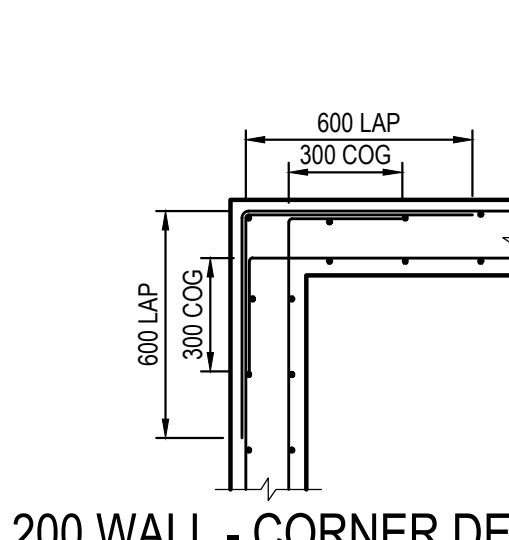
TYPICAL STEP IRON DETAIL

SCALE 1:10



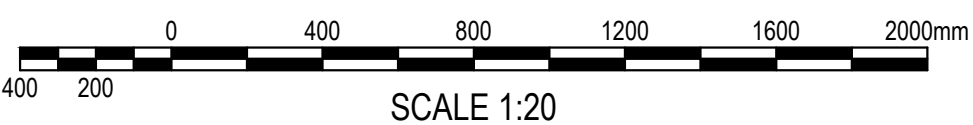
150 WALL - CORNER DETAIL

SCALE 1:20



200 WALL - CORNER DETAIL

SCALE 1:20



SURVEY INFORMATION

SURVEYED BY
BEE&LETHBRIDGE

DATUM: A.H.D.
ORIGIN OF LEVELS: PM 50080 RL 199.855

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR DA ONLY	MP	FZ	27.03.2024					
03	ISSUED FOR DA ONLY	MP	MM	04.04.2023					
02	ISSUED FOR DA ONLY	MB	MM	19.12.2022					
01	ISSUED FOR PRELIMINARY	SC	MM	20.10.2022					

Client
HILLS MARKETPLACE PTY LTD.

Surveyor
BN

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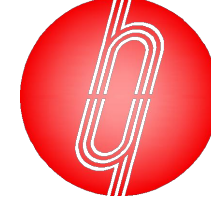


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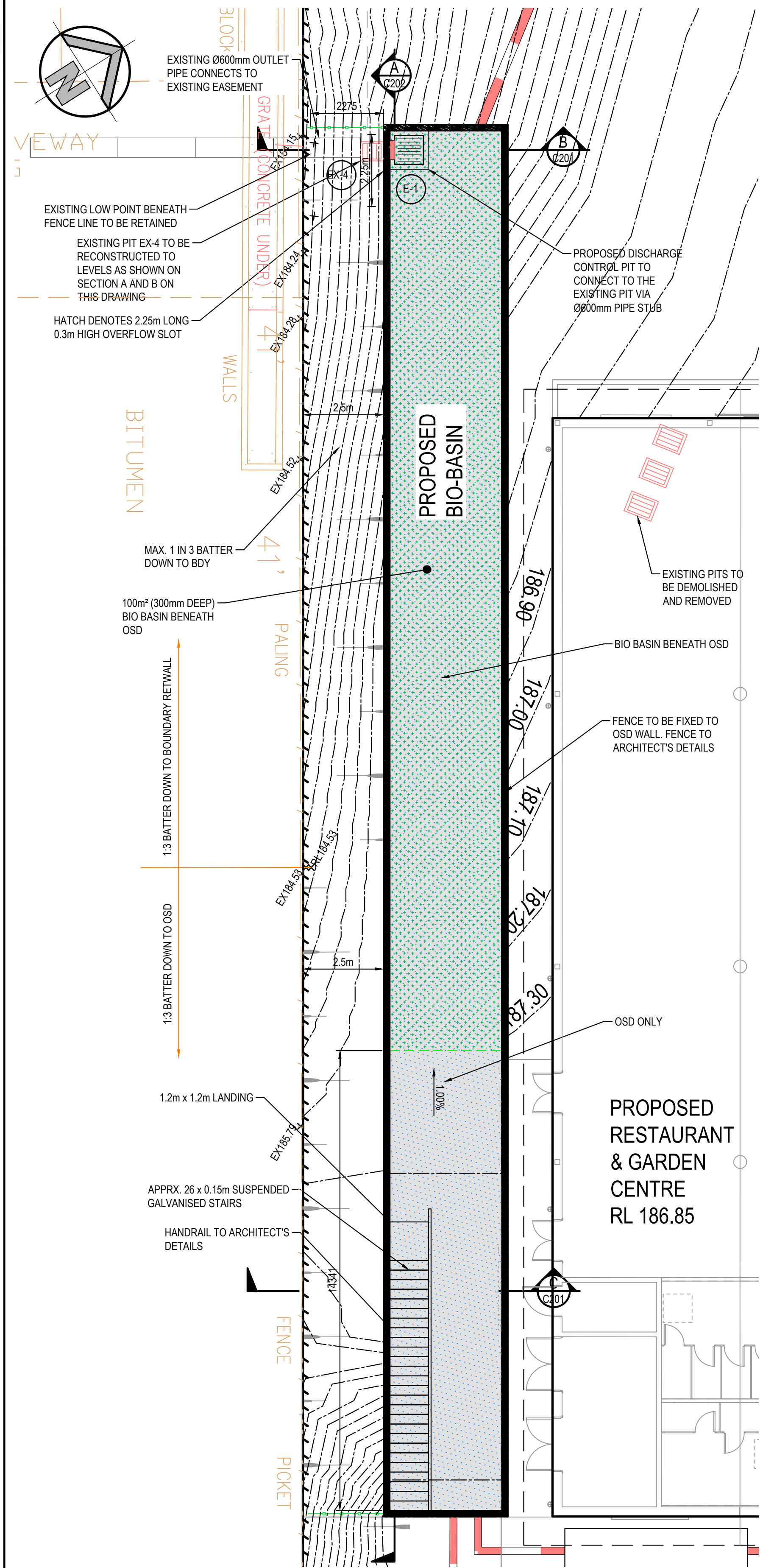
Title
STORMWATER MISCELLANEOUS DETAILS
AND PIT LID SCHEDULE

Drawn S.Chen	Designed M.Mishevski	Date OCT 2022
Checked A.Francis	Approved A.Francis	Scale (B/A) N.T.S.

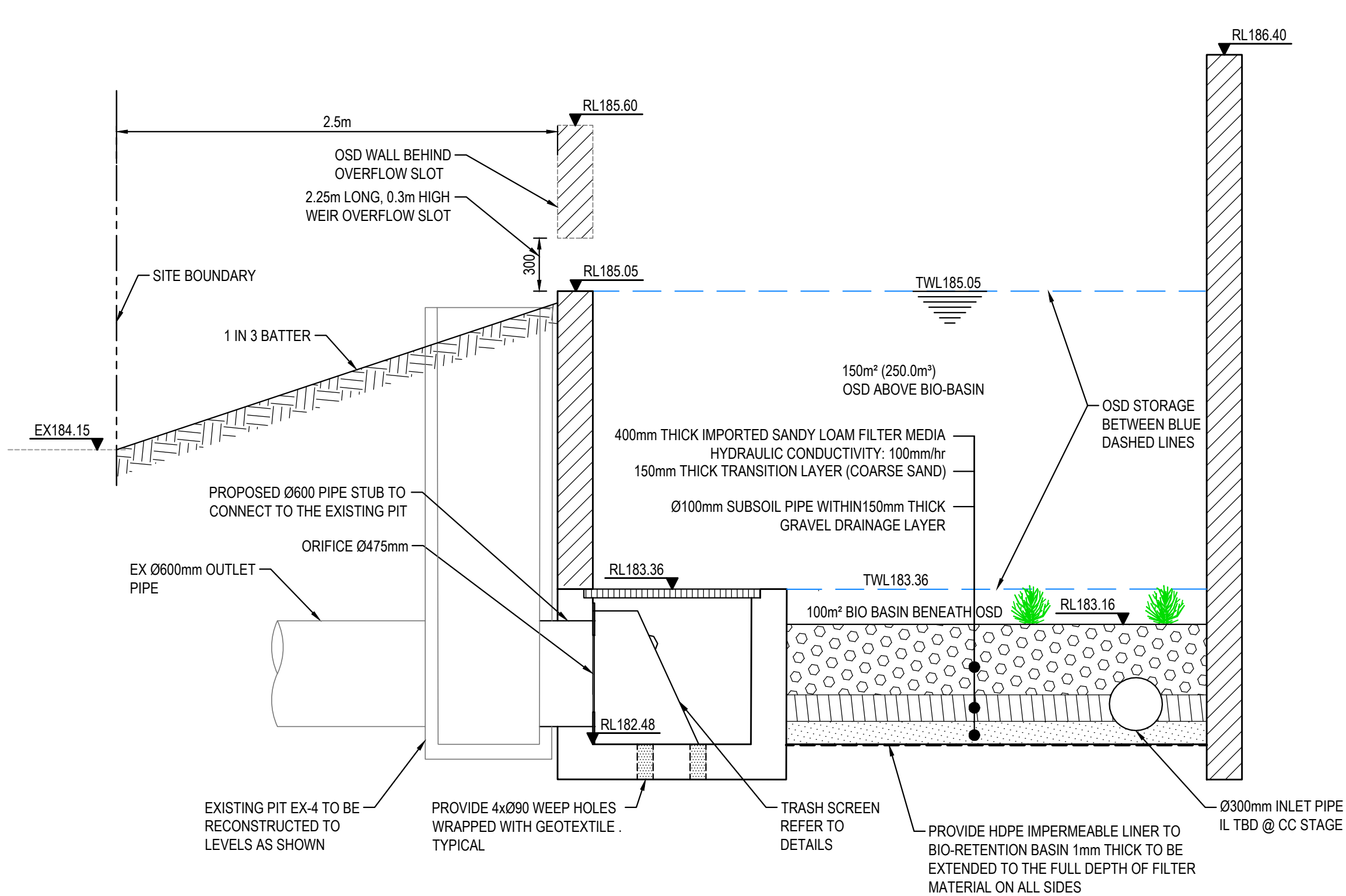
Drawing number
21F99_DA_C200

Revision
04

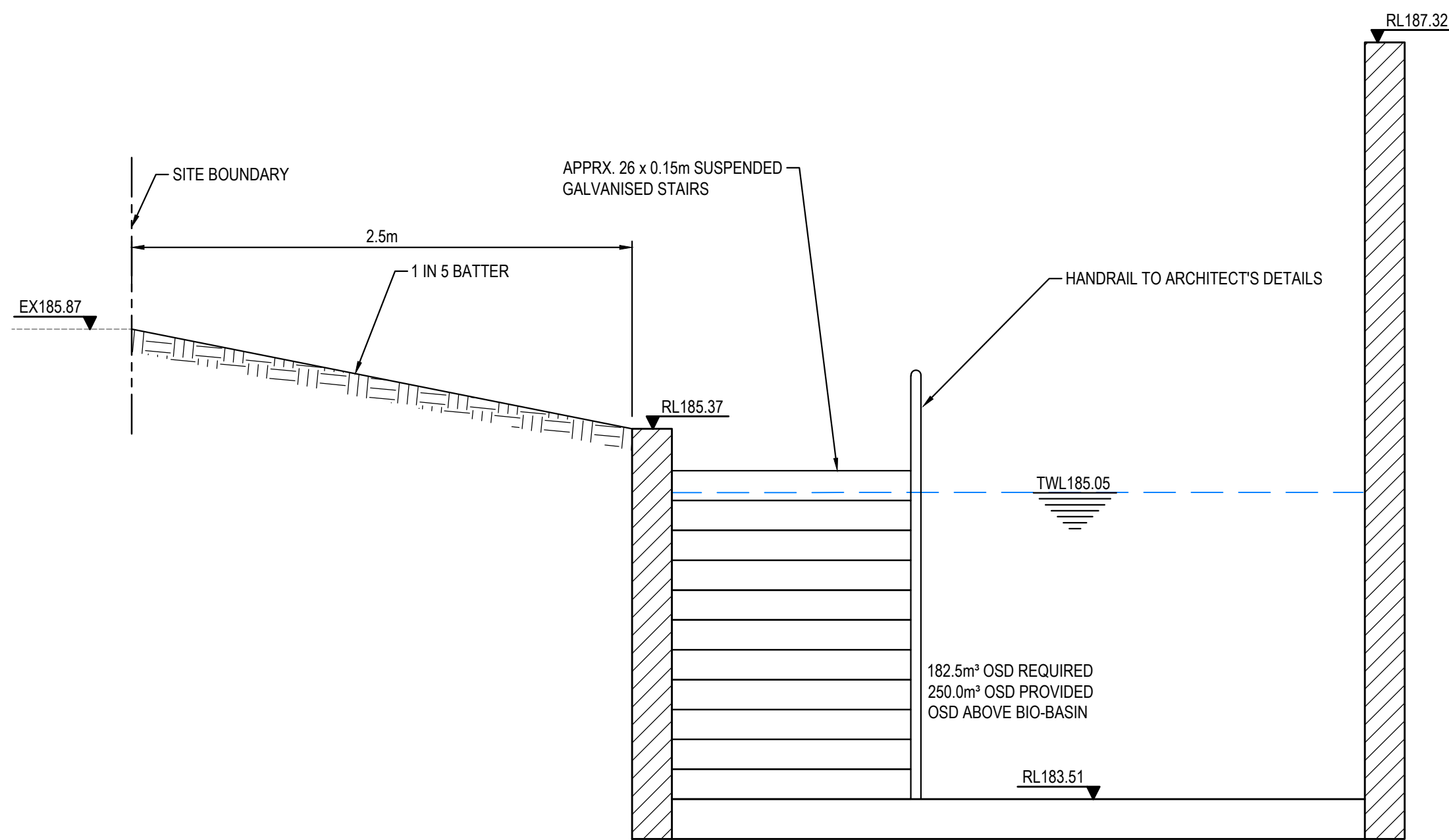
FOR DA ONLY



BIO-BASIN PLAN
SCALE: 1:100



SECTION B
SCALE: 1:25

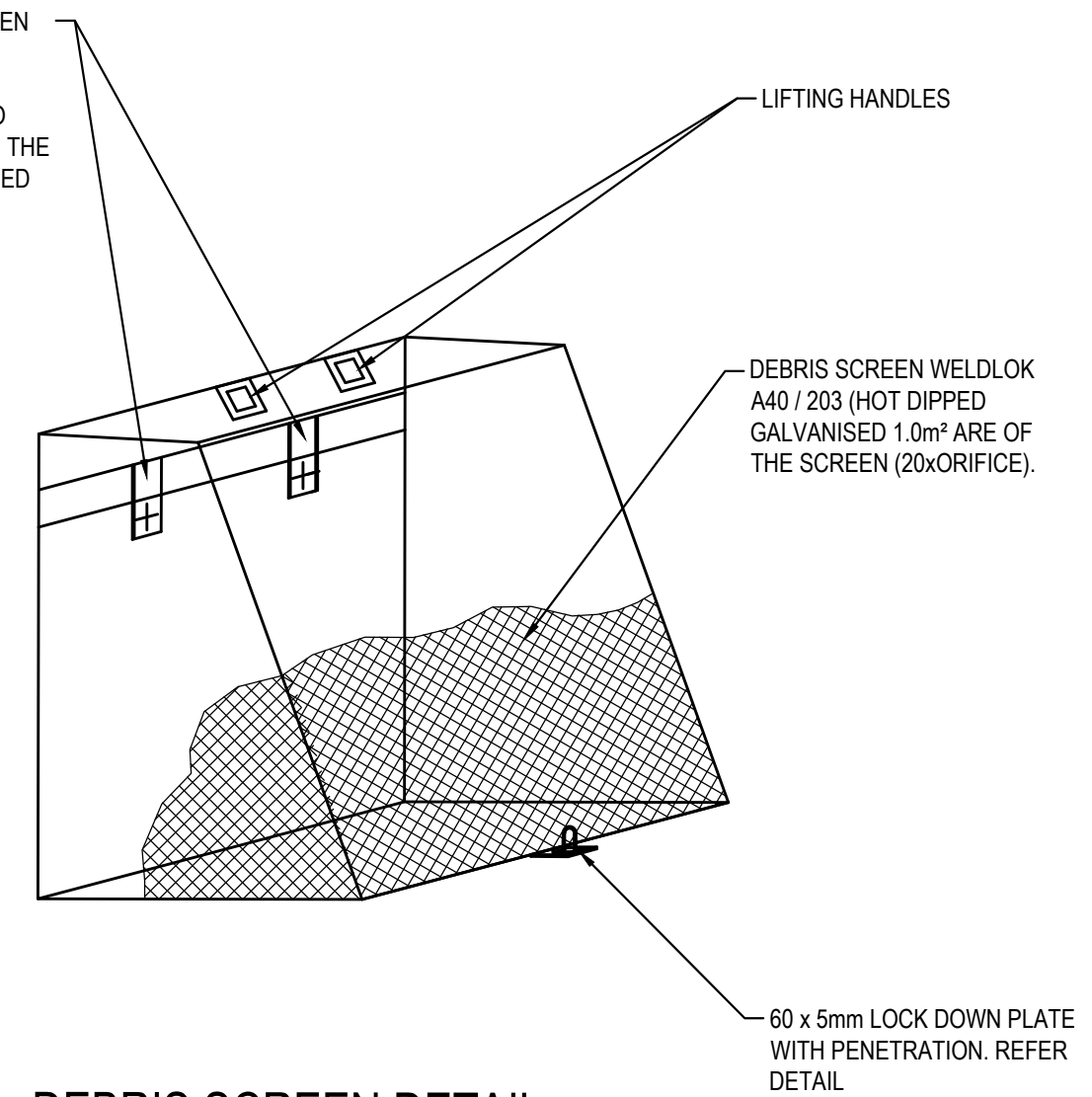


SECTION C
SCALE: 1:25

100x16 MOUNTING BAR WITH BRACKETS. SCREEN TO BE ATTACHED (GENERALLY ON A SLIDING MECHANISM) TO THE WALL, BUT SHOULD BE REMOVABLE (WITHOUT THE USE OF TOOLS) TO PERMIT CLEANSING AND EASY INSPECTION OF THE OUTLET CONTROL. ALL STEEL TO BE HOT DIPPED GALVANISED.

SCREEN YPE WELDLOK A40/203 IS RECOMMENDED FOR ORIFICES LARGER THAN 150mm AND SCREEN AREA 20 x THE ORIFICE AREA FOR THAT TYPE OF SCREEN - REFER UPRCT SECTION 4-13

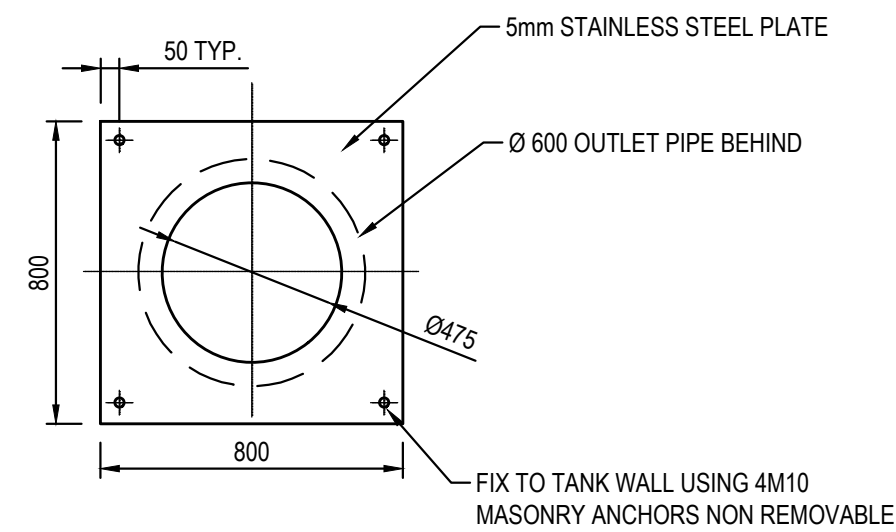
MAXIMESH RH3030 IS RECOMMENDED FOR ORIFICES LESS THAN 150mm IN DIAMETER AND SCREEN AREA 50xTHE ORIFICE AREA REFER BURWOOD COUNCIL AND UPPER PARRAMATTA RIVER CATCHMENT TRUST HANDBOOK



DEBRIS SCREEN DETAIL
NOT TO SCALE
ALL STEEL TO BE HOT DIPPED GALVANISED



- A) A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A LOCATION SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANKS/ CONFINED SPACE AT ALL ACCESS POINTS OF THE TANK/ CONFINED SPACE.
- B) SIGN TO BE MINIMUM DIMENSIONS: 250mm x 180mm ENTRIES I.E. GRATES, MANHOLES
- C) SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED METAL OR POLYPROPYLENE
- D) SIGN SHALL BE AFFIXED TO A SURFACE WITH SCREWS AT EACH CORNER.



ORIFICE PLATE DETAIL
SCALE 1:20

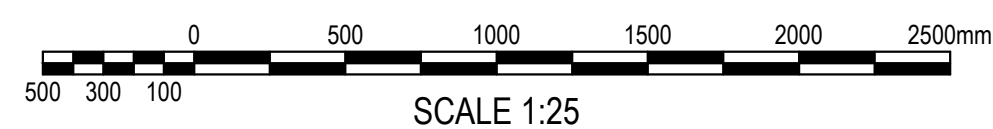
ON-SITE DETENTION DESIGN SUMMARY

A DRAINS MODEL HAS BEEN PREPARED TO DETERMINE THE PRE-DEVELOPMENT AD POST-DEVELOPMENT STORMWATER RUNOFF. REFER TO SUMMARY TABLE.

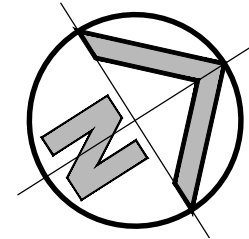
YR	PRE-DEVELOPMENT (L/s)	POST-DEVELOPMENT (L/s)
5	404	402
10	532	472
20	659	532
50	825	613
100	971	680

FOR DA ONLY

SURVEY INFORMATION SURVEYED BY BEE&LETHBRIDGE DATUM: A.H.D. ORIGIN OF LEVELS: PM 50080 RL 199.895	07	ISSUED FOR DA ONLY	AFe	MM	04.12.2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						</
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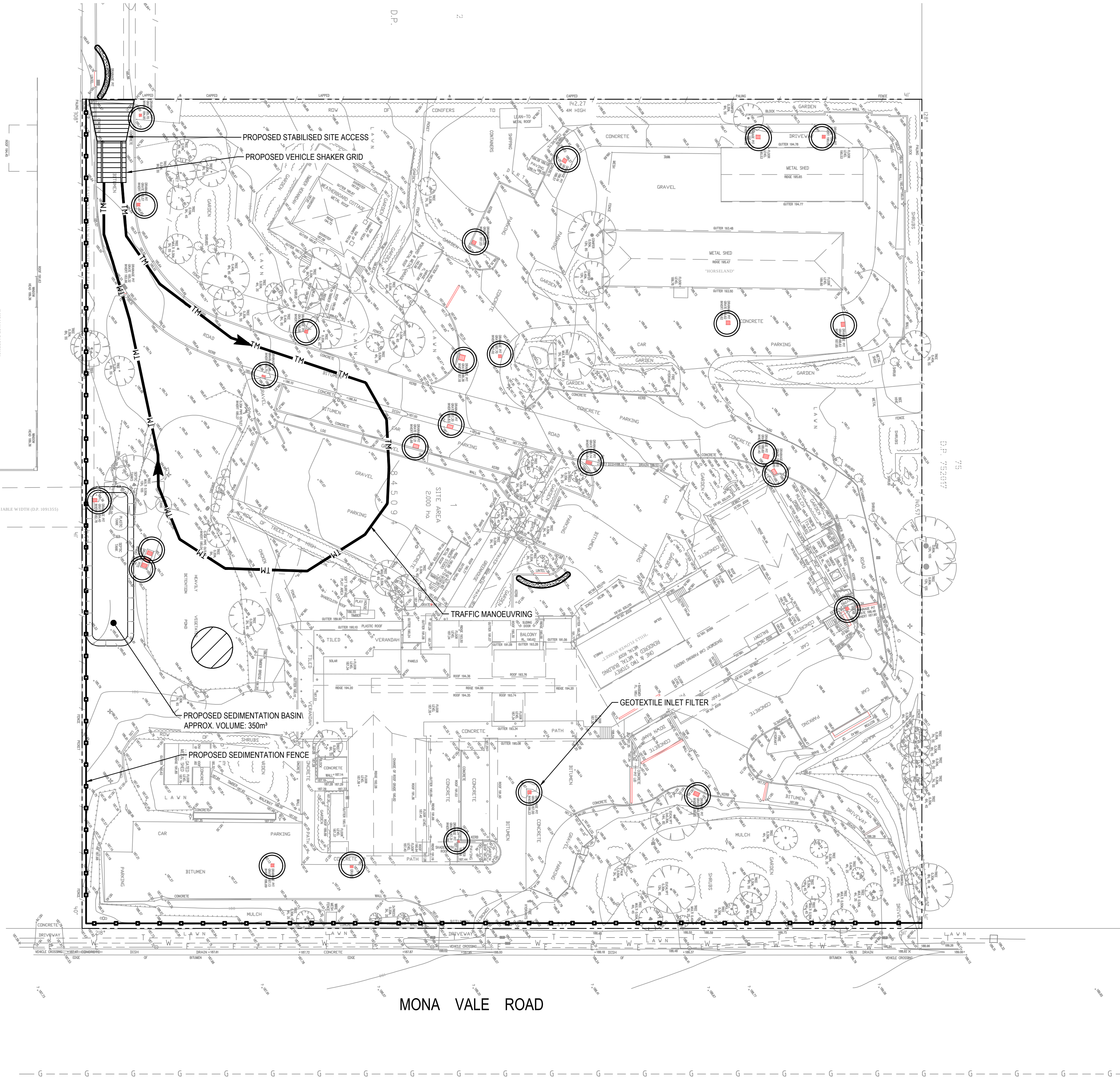


SURVEY INFORMATION SURVEYED BY BEE&LETHBRIDGE DATUM: A.H.D. ORIGIN OF LEVELS: PM 50080 RL 199.895										Client HILLS MARKETPLACE PTY LTD. Architect BN This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.										Suite 2.01 828 Pacific Highway Gordon NSW 2072 Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email enquiries@hchconsult.com.au Web www.henryandhymas.com.au										 Project THE HILLS MARKETPLACE 287 MONA VALE ROAD, TERREY HILLS, NSW 2084 Title BIO-BASIN PLAN, SECTIONS AND DETAILS										Drawn S.Chen Designed M.Mishevski Date OCT 2022 Checked A.Francis Approved A.Francis Scale @A1 1:25 Revision									
03 ISSUED FOR DA ONLY MP FZ 27.03.2024 02 ISSUED FOR DA ONLY AFe MM 04.12.2023 01 ISSUED FOR DA ONLY SC MM 17.11.2023										REVISION AMENDMENT DRAWN DESIGNED DATE REVISION AMENDMENT DRAWN DESIGNED DATE										Drawing number 21F99_DA_C202 Revision 03																													



D.P. 75/2017
12/6

EASEMENT TO DRAIN WATER VARIABLE WIDTH (D.P. 1091355)



SEDIMENT & EROSION CONTROL PLAN

SCALE: 1:400

LEGEND

- EXISTING BOUNDARY
- TRAFFIC MANOEUVRING
- PROPOSED SEDIMENTATION FENCE
- PROPOSED VEHICLE SHAKER GRID
- PROPOSED STABILISED SITE ACCESS
- PROPOSED STOCKPILE LOCATION
- GEOTEXTILE INLET FILTER
- PROPOSED MESH & GRAVEL INLET FILTER
- PROPOSED SEDIMENT BASIN

SEDIMENT & EROSION CONTROL NOTES

- ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL SPECIFICATIONS AND LANDCOM'S "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.
- FILTRATION BUFFER ZONES ARE TO BE FENCED OFF AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
- ALL TEMPORARY EARTH BERMS, 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 DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
- ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO SEAL THE EARTHWORKS.
- ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND STRAW MULCHED WITHIN 14 DAYS OF COMPLETION OF FORMATION U.N.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.

FOR DA ONLY

SURVEY INFORMATION

SURVEYED BY
BEE&LETHBRIDGE

DATUM: A.H.D.
ORIGIN OF LEVELS: PM 50080 RL 199 895

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR DA ONLY	MB	MM	19.12.2022					
01	ISSUED FOR PRELIMINARY	SC	MM	19.10.2022					

Client
HILLS MARKETPLACE PTY LTD.

Architect
BN

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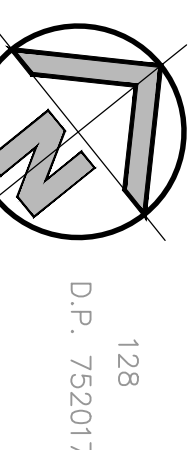
Project
THE HILLS MARKETPLACE
287 MONA VALE ROAD, TERREY HILLS, NSW 2084

Title
SEDIMENT & EROSION CONTROL PLAN

Drawn S.Chen	Designed M.Mishevski	Date OCT 2022
Checked A.Francis	Approved A.Francis	Scale (B1) 1:400

Drawing number 21F99_DA_SE01	Revision 02
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[illegible]



LEGEND

LEGEND

186.50 CONTOURS BE

- | BULK EARTHWORKS QUANTITIES | | |
|--|--|------------------------|
| TOTAL AREA (11641.8m ²) | | |
| CUT | | 1889.35 m ² |
| FILL | | 3280.66 m ² |
| EXCESS OF FILL OVER CUT | | 1391.31 m ² |
| EXCAVATION FOR RETAINING WALLS NOT INCLUDED IN CALCULATION | | |
| EXCAVATION FOR SERVICE TRENCHES NOT INCLUDED IN CALCULATION | | |
| VOLUME HAS BEEN CALCULATED AFTER STRIPPING THE SITE OF TOPSOIL - ASSUMED TOPSOIL DEPTH 250mm. STRIPPED MATERIAL NOT INCLUDED IN ABOVE QUANTITIES | | |

FOR DA ONLY