



SCALE BAR

SCALE 1:200

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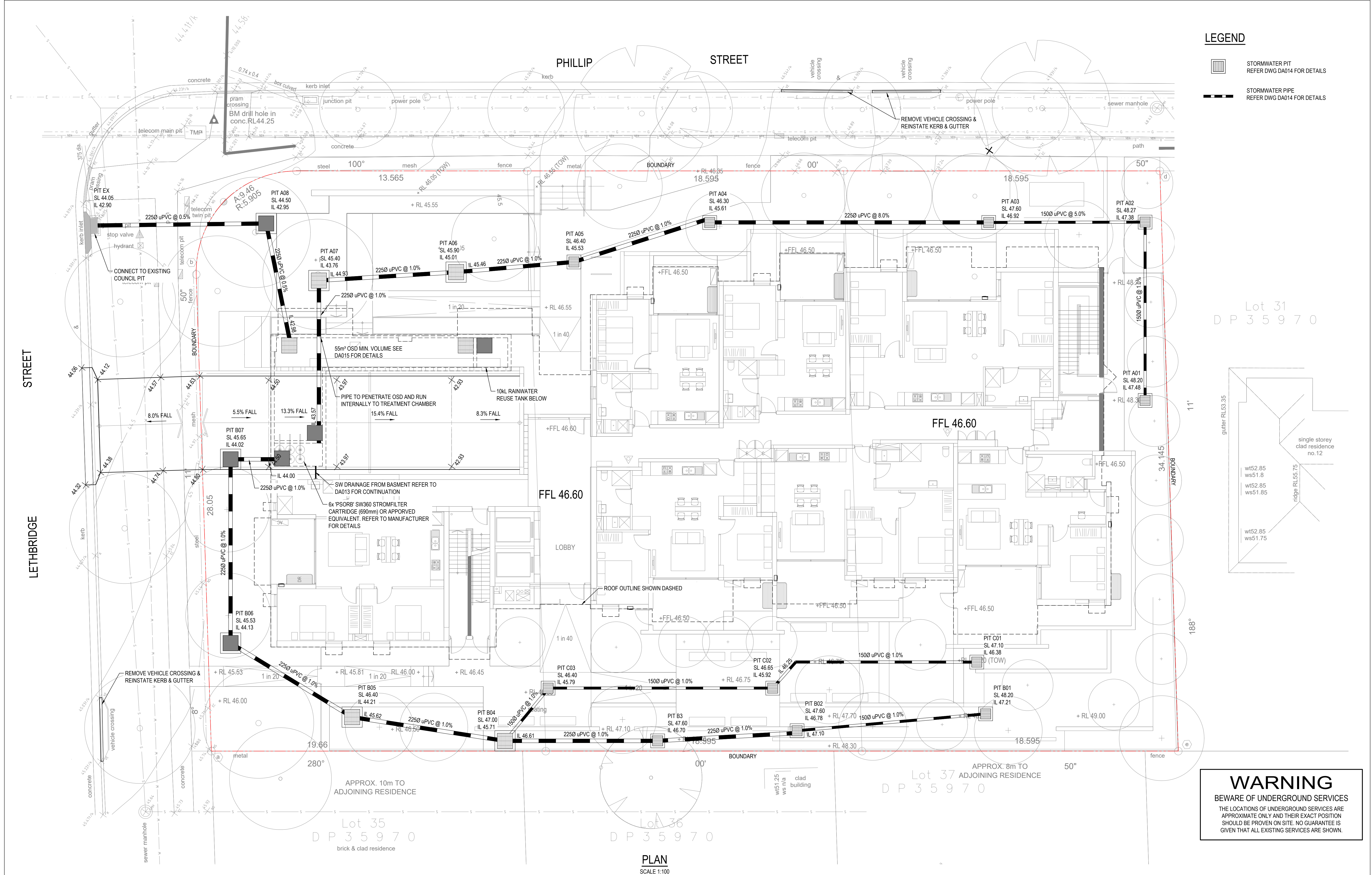
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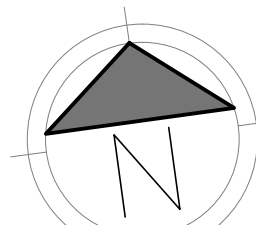
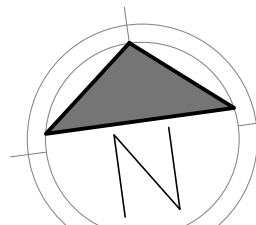
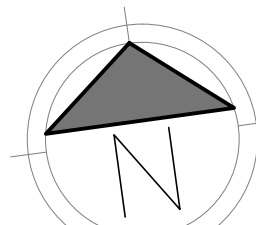
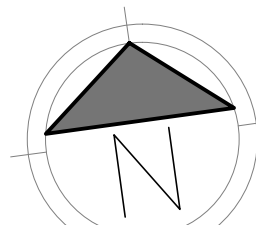
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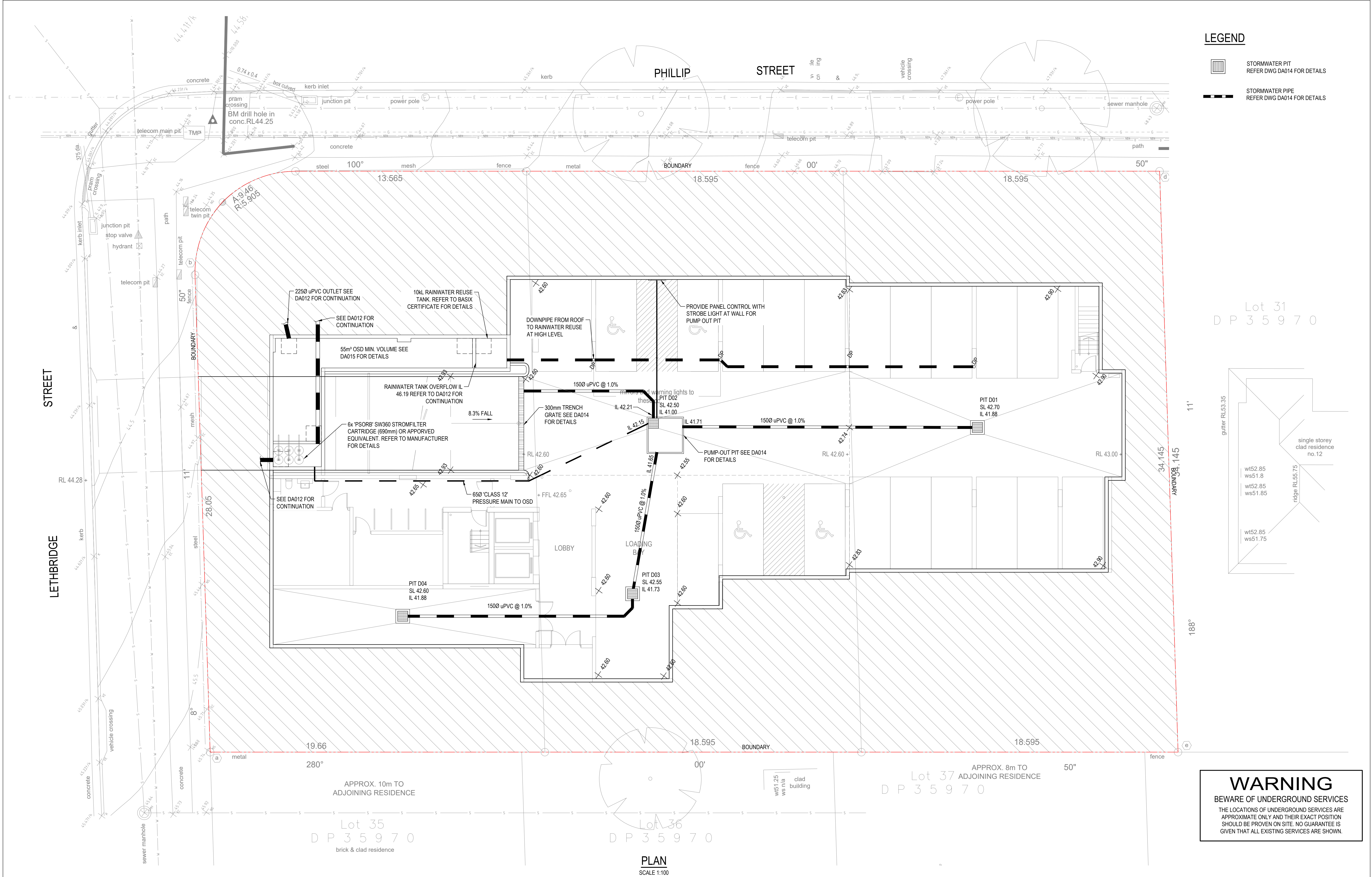


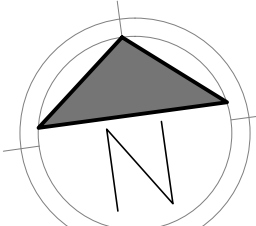
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DRAWING TITLE	14-18 PHILLIP STREET ST MARYS, NSW 2760
	EROSION AND SEDIMENT CONTROL

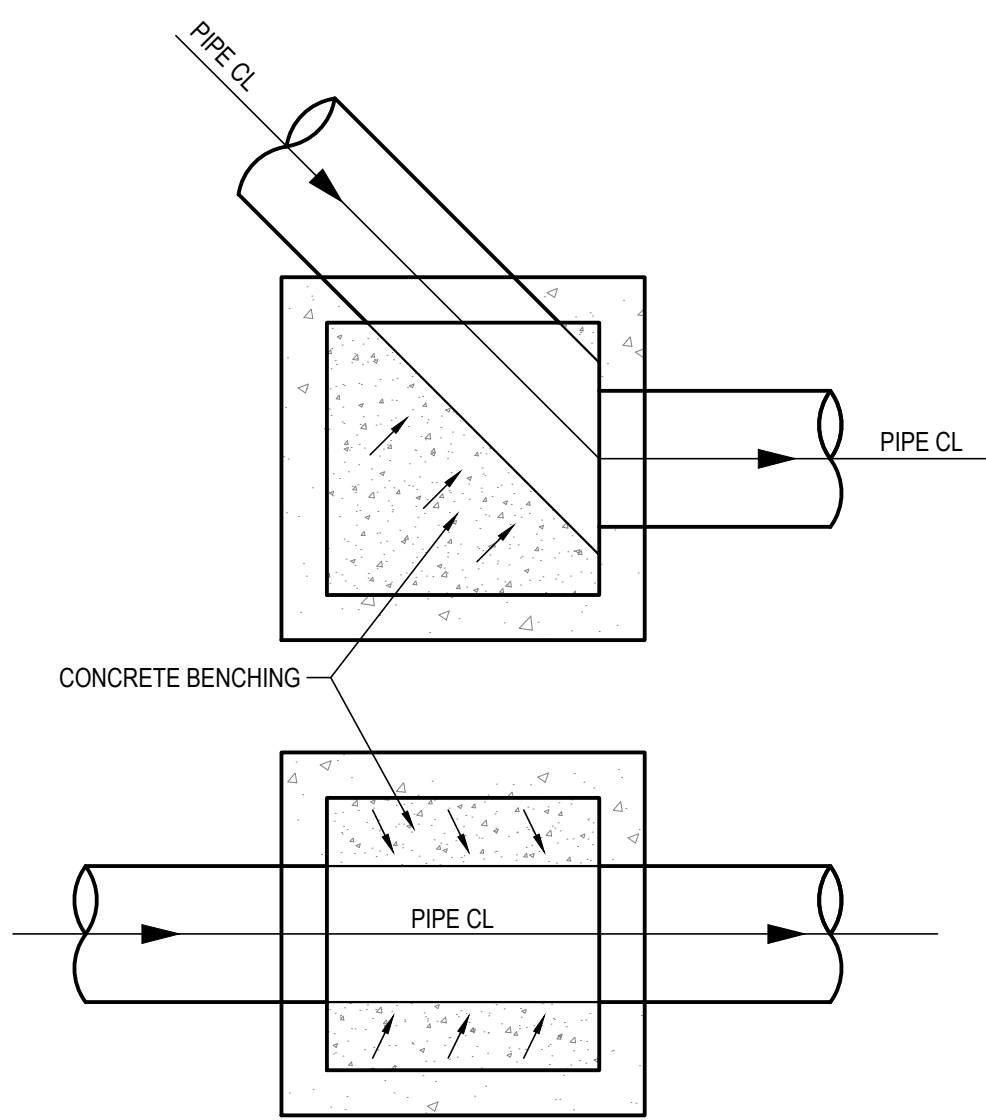
APPROVAL ISSUE
T TO BE USED FOR CONSTRUCT



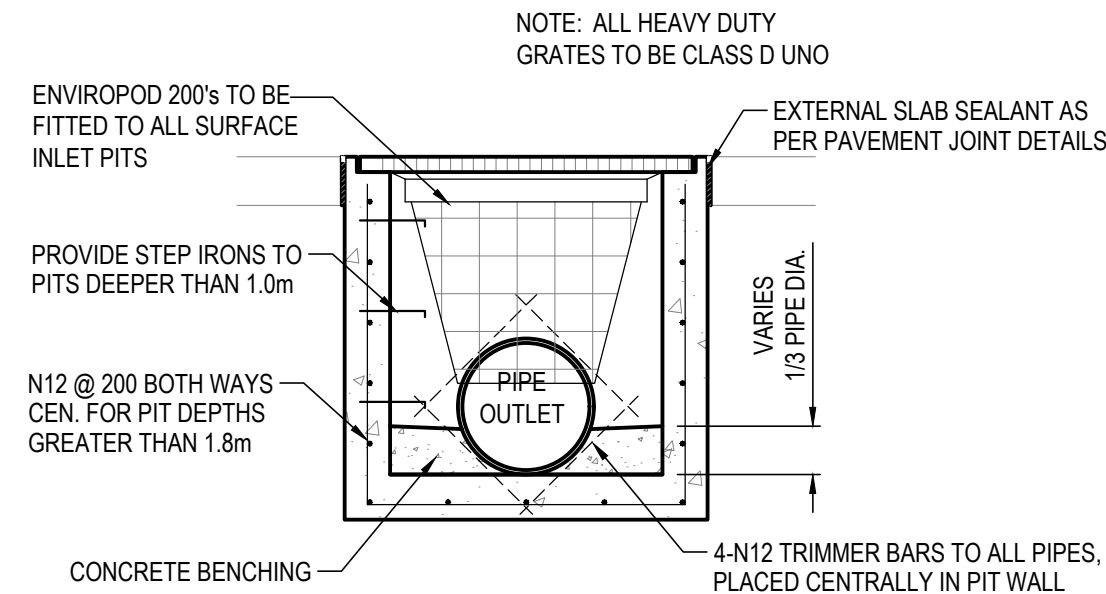
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No.	REVISION DESCRIPTION	DRAWN	DATE	0	10m					PROJECT LEADER	DESIGNER	SIGNATURE
E	AMENDED STORMWATER DESIGN	YK	27.05.20					GROWTHBUILT	14-18 PHILLIP STREET ST MARYS	RJB	-	
D	AMENDED OSD DESIGN	YK	12.05.20					LEVEL 9, 100 WILLIAM STREET	14-18 PHILLIP STREET			
C	FOR APPROVAL	YK	10.12.19					ST MARYS, NSW 2000	ST MARYS, NSW 2760			
B	FOR APPROVAL	YK	04.12.19									
A	FOR APPROVAL	YK	15.11.19									
				SCALE 1:100				ARCHITECT	DRAWING TITLE	DRAWING No.		
										REVISION		
								MCGREGOR WESTLAKE ARCHITECTURE	GROUNDFLOOR DRAINAGE LAYOUT	SY192-068		
										DAC012		
								LEVEL 5, 68-72 WENTWORTH AVE, NSW 2010		E		



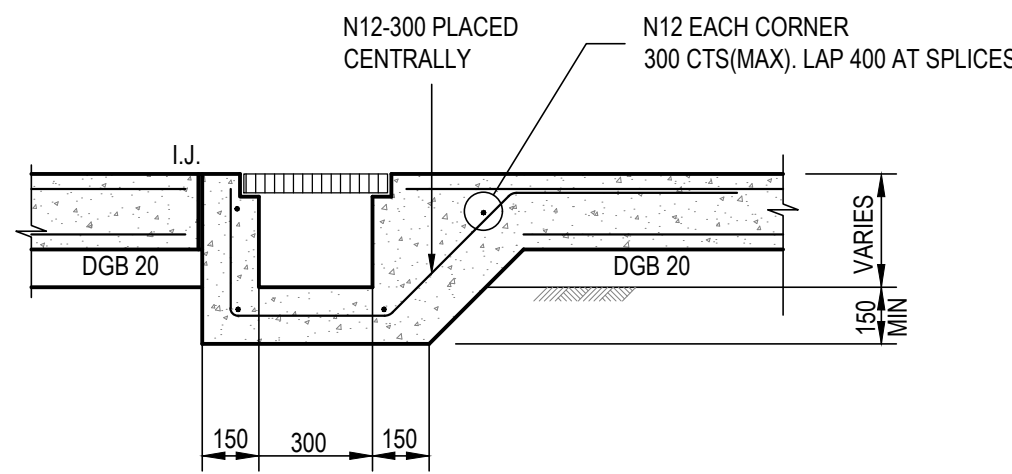
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C	FOR APPROVAL	YK	10.12.19					SYDNEY, NSW 2000	ST MARYS, NSW 2760				
B	FOR APPROVAL	YK	04.12.19					ARCHITECT	DRAWING TITLE	DRAFTSPERSON	SCALE	DATE DRAWN	SHEET SIZE
A	FOR APPROVAL	YK	15.11.19					MCGREGOR WESTLAKE ARCHITECTURE	BASEMENT DRAINAGE LAYOUT	-	AS SHOWN		A1
										JOB No.	DRAWING No.	REVISION	
										SY192-068	DAC013	E	



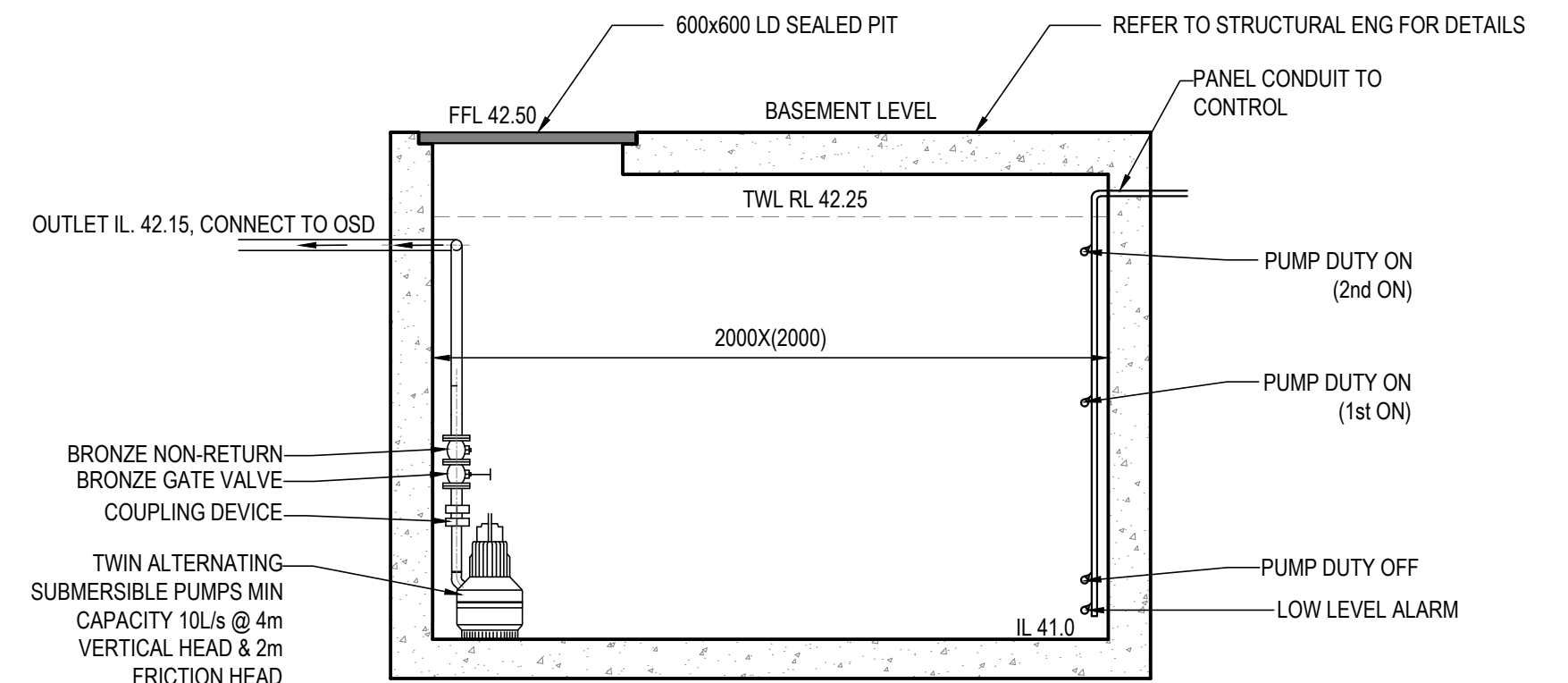
TYPICAL CONCRETE BENCHING
SCALE 1:25



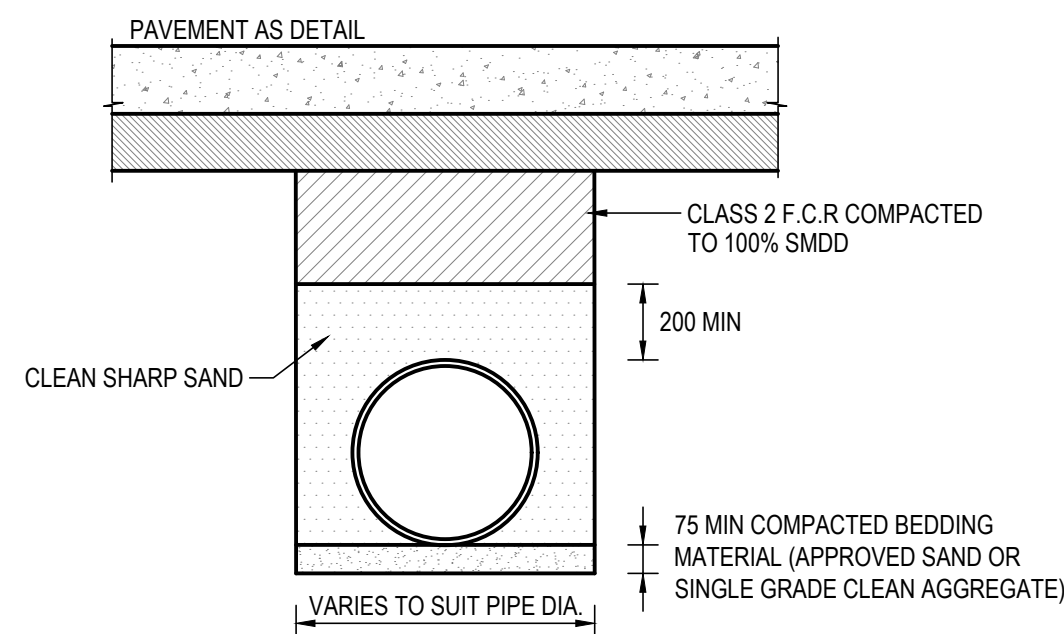
TYPICAL INLET PIT & JUNCTION PIT
SCALE 1:25



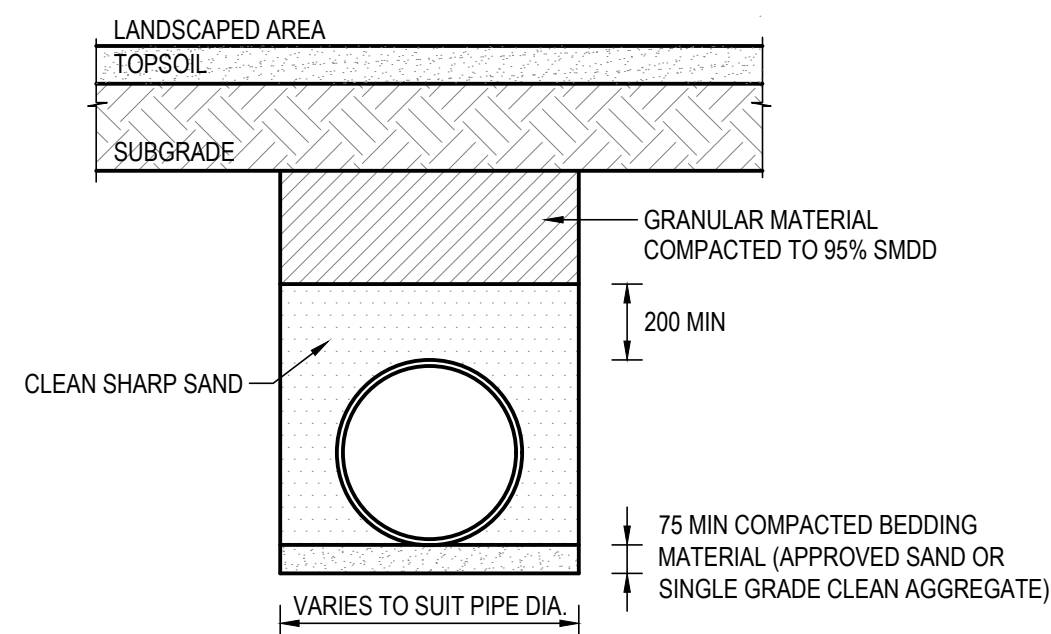
TYPICAL GRATED DRAIN DETAIL
SCALE 1:20



PIT D02 DETAIL
SCALE 1:20



UNDER PAVEMENT PIPE BEDDING
NTS



UNDER LANDSCAPING PIPE BEDDING
NTS

PUMP CAPACITY CALCULATION:

A = CATCHMENT AREA (m²)
T = STORM DURATION (hr)
I = RAINFALL INTENSITY (mm/hr)
C_r = COEFFICIENT OF RUNOFF

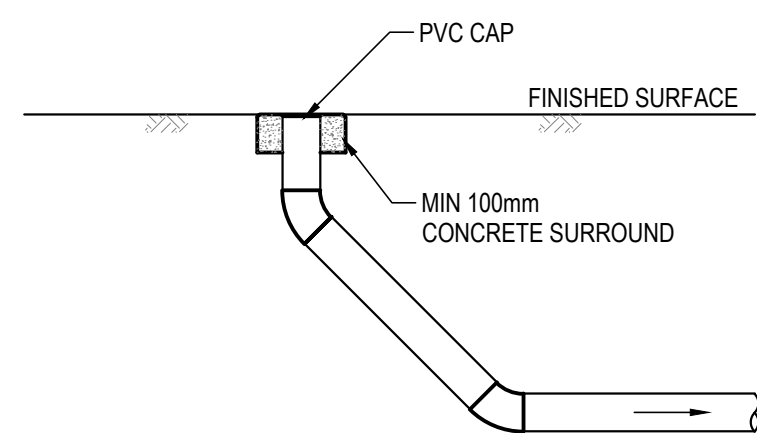
Q_{100YR/2hr} INFLOW AT 100YR ARI, 2hr DURATION:

$$Q_{100YR/2hr} = C_r \times I_{100YR/2hr} \\ = 1.2 \times 41.1 \\ = 49.3 \text{ mm/hr}$$

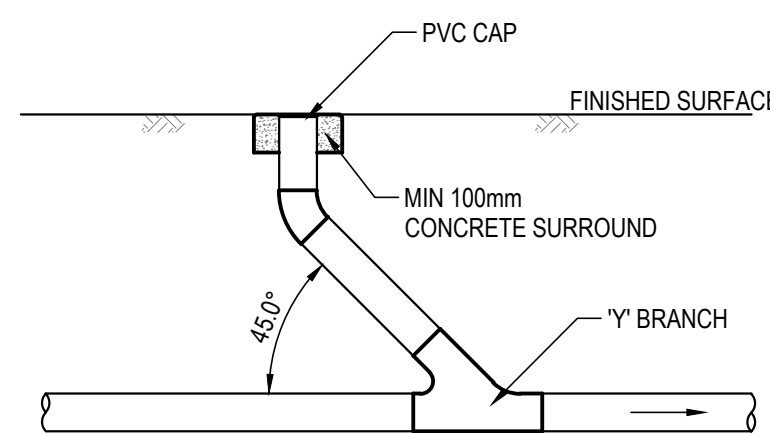
V, REQUIRED STORAGE

$$V = Q/1000 \times T \times A \\ = (49.3/1000) \times 2 \times 50 \\ = 4.93 \text{ m}^3$$

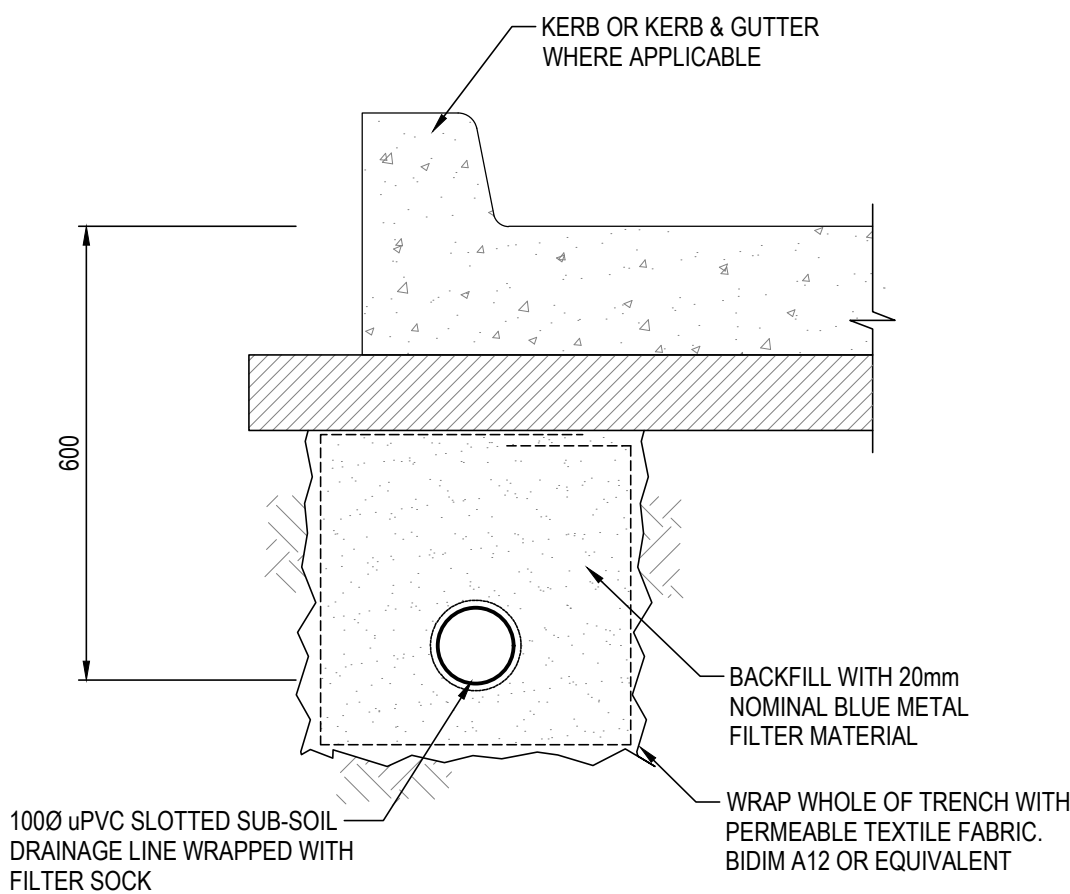
5.0m³ WET WELL STORAGE PROVIDED



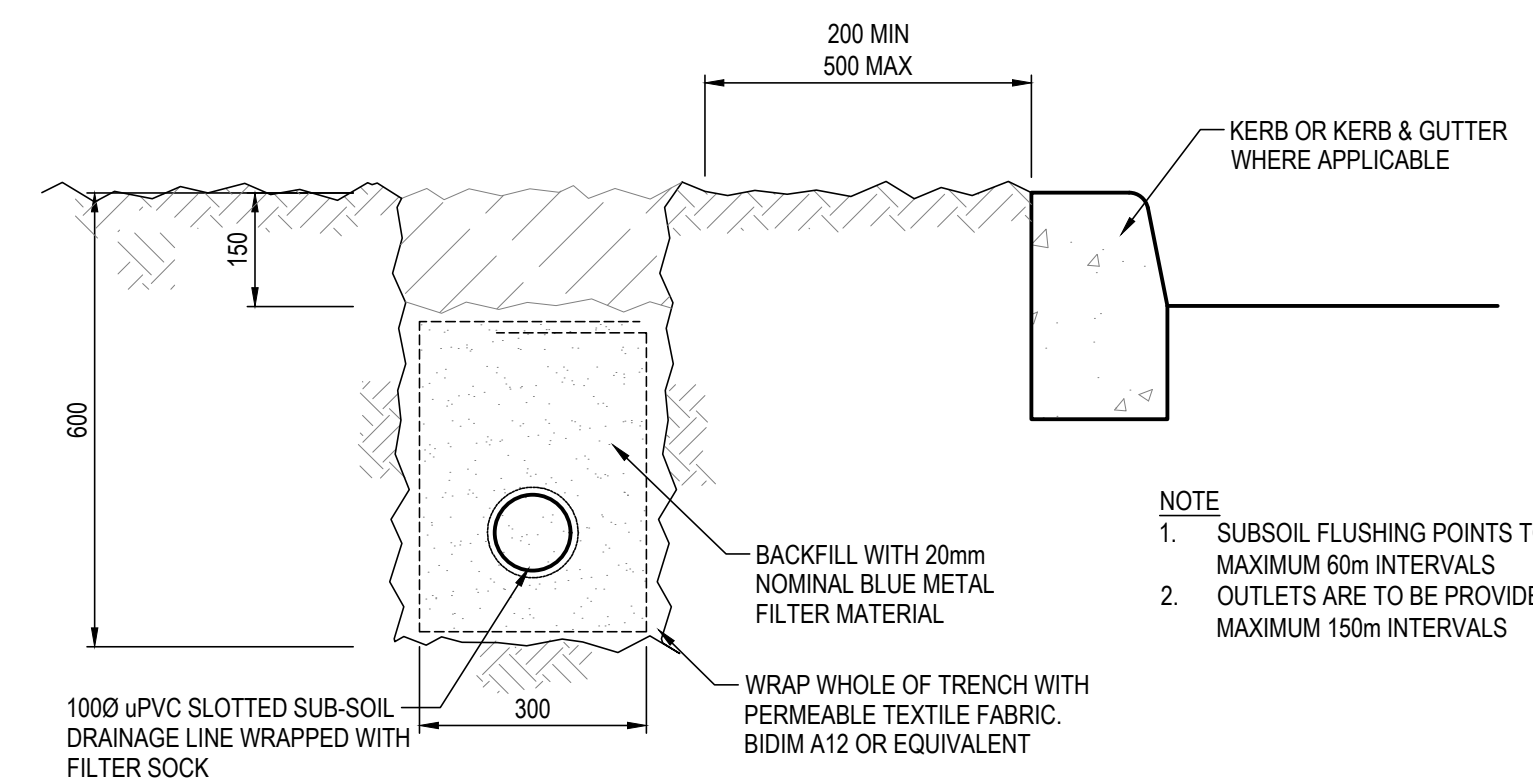
FLUSH POINT DETAIL
SCALE 1:20



FLUSH POINT DETAIL (INLINE)
SCALE 1:20



SUB-SOIL DRAIN DETAIL
SCALE 1:10

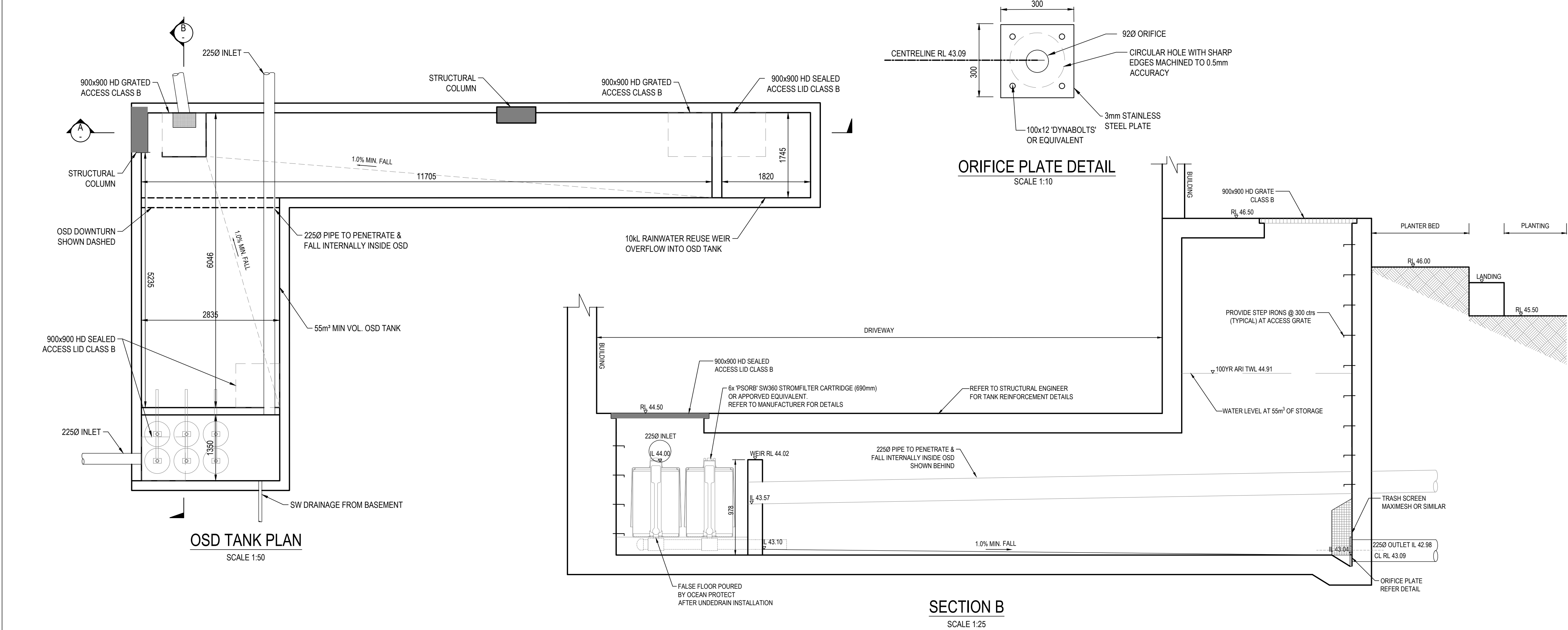


NOTE

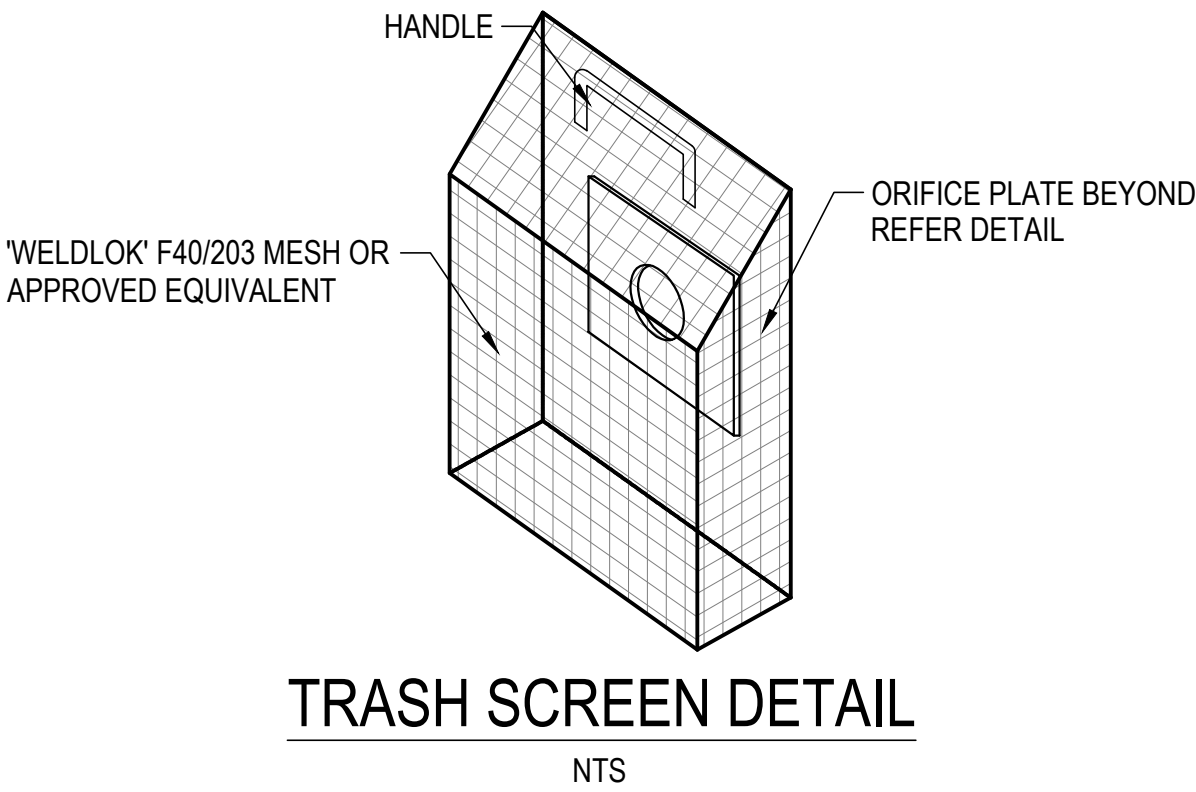
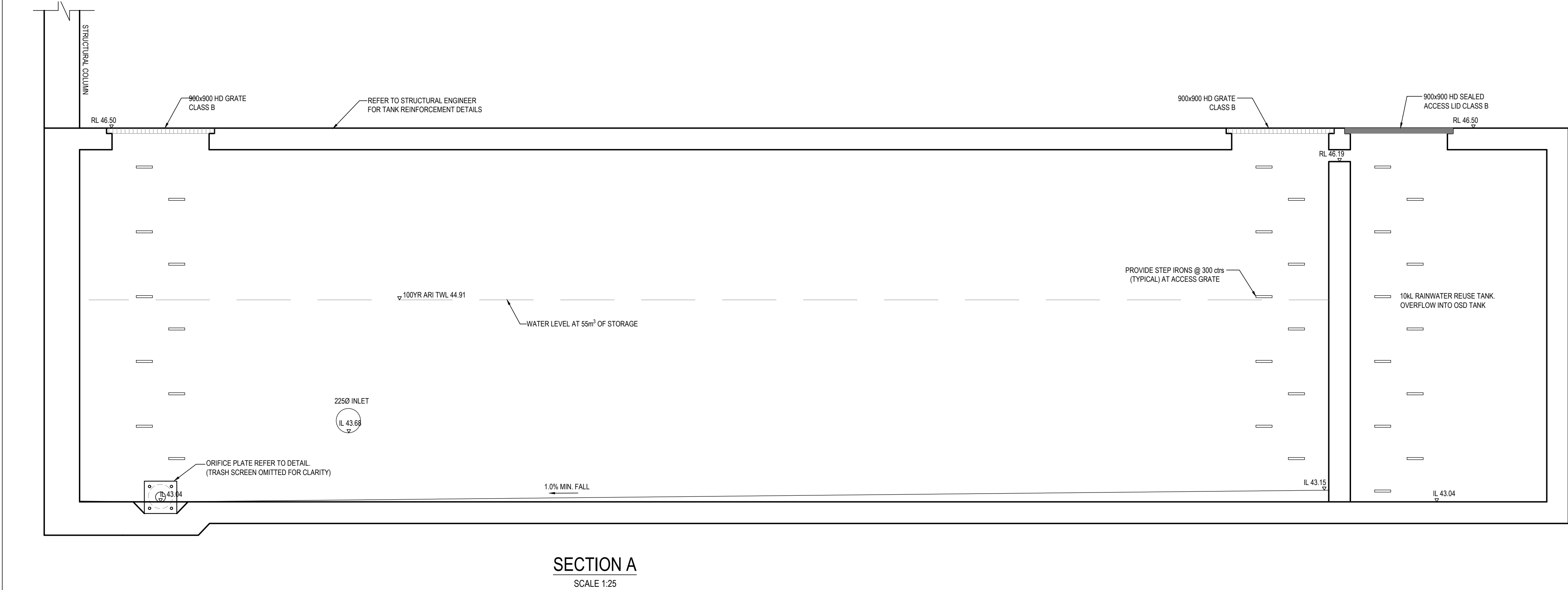
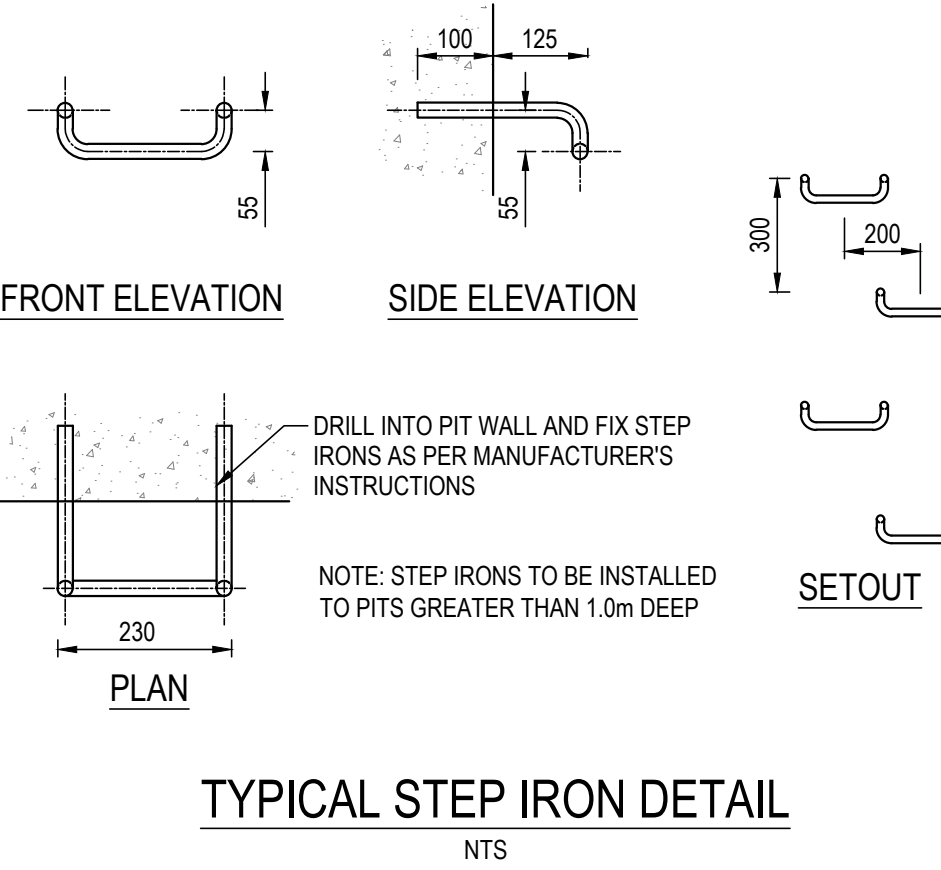
- SUBSOIL FLUSHING POINTS TO BE AT MAXIMUM 60m INTERVALS
- OUTLETS ARE TO BE PROVIDED AT MAXIMUM 150m INTERVALS

SUB-SOIL DRAIN DETAIL
SCALE 1:10

REVISIONS:				SCALE BAR 0 1 2 3 4 5 1m 1.5 2m SCALE 1:20 0 1 2 3 4 5 1m 1.5 2m SCALE 1:25 COPYRIGHT © THIS DRAWING IS COPYRIGHT AND THE PROPERTY OF VAN DER MEER (NSW) PTY LTD. IT MUST NOT BE REPRODUCED, COPIED OR USED WITHOUT THE AUTHORITY OF VAN DER MEER (NSW) PTY LTD. DISCLAIMER DESIGNER AND ITS CONTENTS ARE ELECTRONICALLY GENERATED. ARE CONFIDENTIAL AND MAY ONLY BE USED FOR THE PURPOSE FOR WHICH THEY WERE INTENDED. VAN DER MEER (NSW) PTY LTD. WILL NOT ACCEPT RESPONSIBILITY FOR ANY CONSEQUENCES ARISING FROM THE USE OF THE DRAWING FOR OTHER THAN ITS INTENDED PURPOSE OR IN CONNECTION WITH ANY OTHER WORK OR FABRICATION. WHERE THE DRAWING HAS BEEN ALTERED, AMENDED OR CHANGED EITHER MANUALLY OR ELECTRONICALLY BY ANY THIRD PARTY, THIS IS AN UNCONTROLLED DOCUMENT ISSUED FOR INFORMATION PURPOSES ONLY. UNCONTROLLED, FOLDERS, FILES, AND TIME SHEETS ARE NOT TO BE USED FOR THE PURPOSE FOR WHICH THEY WERE INTENDED. VAN DER MEER (NSW) PTY LTD. WILL NOT ACCEPT RESPONSIBILITY FOR ANY CONSEQUENCES ARISING FROM THE USE OF THE DRAWING FOR OTHER THAN ITS INTENDED PURPOSE OR IN CONNECTION WITH ANY OTHER WORK OR FABRICATION. van der Meer Consulting van der meer LEVEL 6, 39 CHANDOS STREET ST LEONARDS NSW 2065 Telephone 61-2-9436 0433 Fax 61-2-9436 1370 www.vandermeer.com.au van der Meer (NSW) Pty Ltd A.B.N. 56 158 266 301 CLIENT GROWTHBUILT LEVEL 9, 100 WILLIAM STREET SYDNEY, NSW 2000 ARCHITECT MCGREGOR WESTLAKE ARCHITECTURE LEVEL 5, 68-72 WENTWORTH AVE, NSW 2010 PROJECT TITLE 14-18 PHILLIP STREET ST MARYS 14-18 PHILLIP STREET ST MARYS, NSW 2760 DRAWING TITLE DRAINAGE DETAILS DRAWING STATUS APPROVAL ISSUE NOT TO BE USED FOR CONSTRUCTION PROJECT LEADER RJB DESIGNER - SIGNATURE DRAFTSPERSON - SCALE AS SHOWN DATE DRAWN SHEET SIZE A1 JOB No. SY192-068 DRAWING No. DAC014 REVISION C <tr><td>C</td><td>AMENDED STORMWATER DESIGN</td><td>YK</td><td>27.05.20</td></tr><tr><td>B</td><td>FOR APPROVAL</td><td>YK</td><td>04.12.19</td></tr><tr><td>A</td><td>FOR APPROVAL</td><td>YK</td><td>15.11.19</td></tr><tr><td>No.</td><td>REVISION DESCRIPTION</td><td>DRAWN</td><td>DATE</td></tr>				C	AMENDED STORMWATER DESIGN	YK	27.05.20	B	FOR APPROVAL	YK	04.12.19	A	FOR APPROVAL	YK	15.11.19	No.	REVISION DESCRIPTION	DRAWN	DATE
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OSD CALCULATION	
SITE STORAGE REQUIREMENT (SSR) AND PERMISSIBLE SITE DISCHARGE (PSD) CALCULATED AS PER PENRITH CITY COUNCIL STORMWATER DRAINAGE POLICY (ES 002) SIMPLIFIED METHOD FOR SITES BELOW 5,000m²	
SITE AREA = 1,932m²	
SSR = 280m³ / Ha = 280x 0.1982 = 55m³	
PSD = 120 L/s / Ha = 120 x 0.1982 = 23.8 L/s	
HEAD HEIGHT (H) = 1.87m	
ORIFICE DIA (D) = $21.9 \sqrt{\frac{PSD}{H}}$ = $21.9 \sqrt{\frac{23.8}{1.87}}$ = 92mm	



MESH TYPE	MESH SCREEN AREA
LYSAGHT RH3030 FOR ORIFICE 150Ø OR LESS	>50x ORIFICE DIA
'WELDLOK' F40/203 FOR ORIFICE GREATER THAN 150Ø	>20x ORIFICE DIA

NOTE: SCREEN AREA INCLUDES SIDES WHERE APPLICABLE

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No. REVISION DESCRIPTION				DRAWN		DATE		JOB No. SY192-068		DRAWING No. DAC015		REVISION D			