

GENERAL NOTES:

1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH CANTERBURY BANKSTOWN COUNCIL'S STORMWATER, DETENTION & SEDIMENT CODE
2. THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST IF NECESSARY.
3. THE CONTRACTOR SHALL NOT ENTER UPON NOR DO ANY WORK WITHIN ADJOINING LANDS WITHOUT THE PERMISSION OF THE SUPERINTENDENT.
4. ALL NEW WORKS SHALL MAKE SMOOTH CONNECTION TO EXISTING CONDITIONS.
5. ALL IMPORTED FILL SHALL BE APPROVED BY THE COUNCIL. THE FILL SHALL BE PLACED IN NOT MORE THAN 300mm LAYERS AND SHALL BE COMPACTED TO AT LEAST 98% STANDARD COMPACTION TO COUNCIL'S SPECIFICATION.
6. PROVIDE VEHICULAR CROSSING TO COUNCIL'S SPECIFICATION IN KERB WHERE SHOWN (IF APPLICABLE).
7. THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO ADJOINING PROPERTIES.
8. ALL IMPORTED FILL TO BE USED TO SUPPORT GROUND SLABS SHALL BE COMPACTED TO A MINIMUM LEVEL OF COMPACTION OF 98% OF MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +- 2% OF OPTIMUM (AS1289.5.1.1)
9. STEP IRONS AT 300mm CENTRES & TO COUNCIL'S SPECIFICATIONS SHALL BE PROVIDED WHERE PITS ARE DEEPER THAN 1000mm
10. ALL DOWNPIPES ARE SHOWN DIAGRAMATICALLY POSITION OF DOWNPIPES SHALL BE CONFIRMED ON SITE
11. EXISTING LEVELS AND SERVICE DEPTH AND LOCATION TO BE CHECKED PRIOR TO CONSTRUCTION.
12. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH OTHER CONSULTANTS DOCUMENTATION WHICH INCLUDE BUT IS NOT LIMITED TO ARCHITECTURAL AND SURVEY DRAWINGS

1. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES TO THE COUNCIL'S SPECIFICATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND DURING CONSTRUCTION.
2. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN A SATISFACTORY WORKING ORDER DURING THE CONSTRUCTION PERIOD. INSPECTIONS OF THESE DEVICES SHALL BE CARRIED OUT AFTER EACH STORM. REPAIRS AND/OR DE-CLOGGING SHALL BE CARRIED OUT TO ENSURE PROPER OPERATION OF THE DEVICE.
3. PROVIDE TEMPORARY CONSTRUCTION EXIT TO SHAKE OFF SITE MATERIALS FROM EXITING VEHICLES AND SHALL CONSIST OF A PAD OF COURSE CRUSHED ROCK, (175mm TO 150mm RANGE) HAVING A MINIMUM DEPTH OF 200mm, A MINIMUM LENGTH OF 25m AND 3.5m WIDE OR "CATTLE GRID" SYSTEM.
4. THE GULLY PITS SHALL BE PROTECTED IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS
5. THE GRATED SURFACE PITS SHALL BE PROTECTED IN ACCORDANCE TO COUNCIL'S REQUIREMENTS
6. ENSURE ACCESS IS PROVIDED TO PROPOSED RAINWATER TANK FOR MAINTENANCE PURPOSES.

THE STORMWATER DRAINAGE WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH AS/NZS 3500.3:2021 "STORMWATER DRAINAGE" & AS/NZS 3500.3:2.1998 "STORMWATER DRAINAGE-ACCEPTABLE SOLUTIONS".

ANY VARIATIONS TO THE NOMINATED LEVELS SHALL BE REFERRED TO ENGINEER IMMEDIATELY.

ANY VARIATIONS TO SPECIFIED PRODUCTS OR DETAILS SHALL BE REFERRED TO THE ENGINEER FOR APPROVAL.

BOX COLORBOND OR ZINCALUME STEEL GUTTERS SHALL BE A MINIMUM OF 450 WIDE X 150 DEEP UNO.

EAVES GUTTERS SHALL BE COLORBOND OR ZINCALUME STEEL AND HAVE A MINIMUM EFFECTIVE CROSS-SECTIONAL AREA (A_e) OF 6,000mm² UNO. MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500.

ALL DRAINAGE LINES SHALL BE SEWER GRADE UPVC PIPES, UNO.

ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN. UNO.

FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S DETAIL.

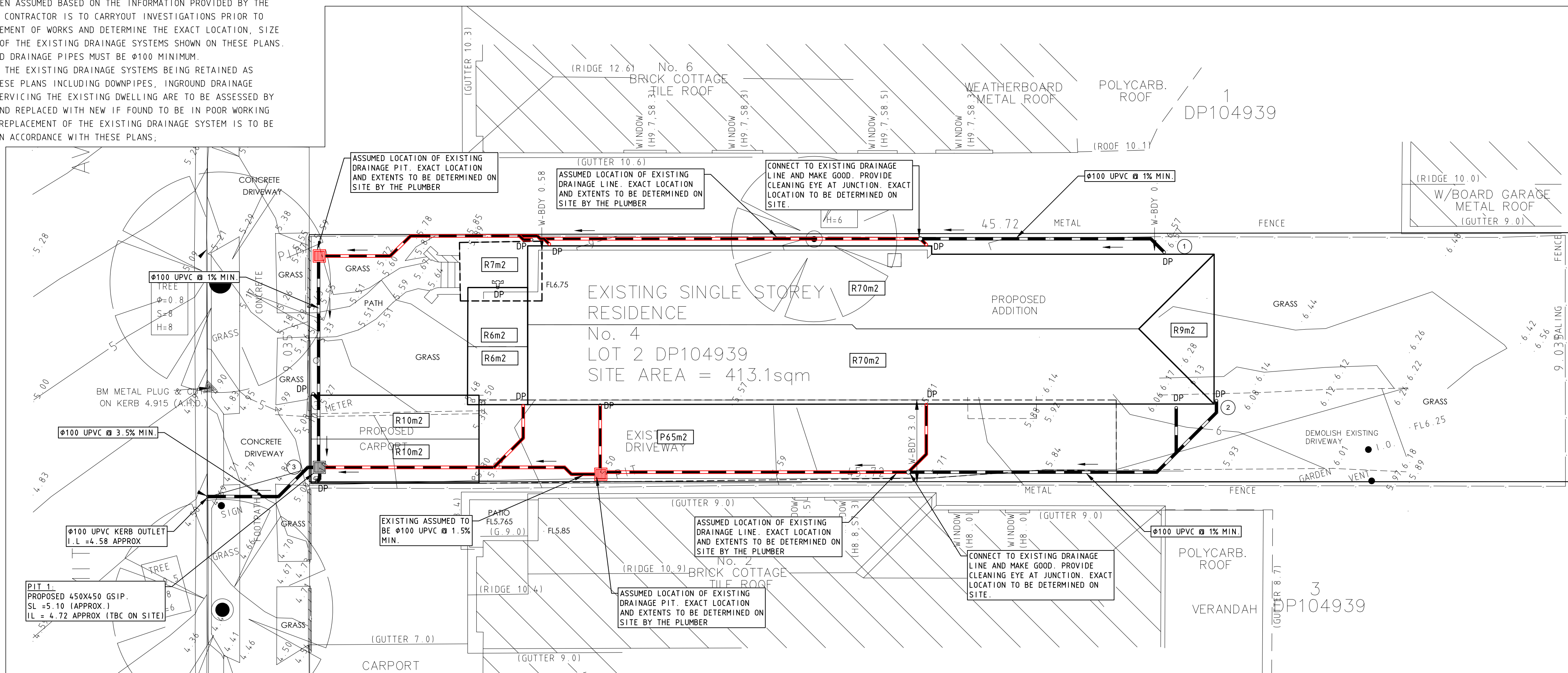
SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS & EMBANKMENTS, WITH LINES FEEDING INTO THE STORMWATER DRAINAGE SYSTEM.

DP = Ø100 OR 100 x 75 RECTANGULAR DOWN PIPE, UNO.
 FO = Ø150 FLOOR OUTLET
 GSP1P = GRATED SURFACE INLET PIT (NO LINTEL)
 Ø100 (c) = Ø100 CHARGED LINE
 IP = Ø100 INSPECTION POINT
 SP = RAINWATER DOWNPIPE SPREADER
 EX DP = EXISTING DOWNPIPE
 RH & SP = RAINHEAD AND DOWNPIPE SPREADER
 RL & DP = RAINHEAD AND DOWNPIPE
 BG = BOX GUTTER
 TOW = TOW OF WALL RL
 GSP1P = GRATED SURFACE INLET PIT
 NGL = NATURAL GROUND LEVEL

XXXX = PROPOSED FINISHED SURFACE LEVEL

Xxm2 = (CATCHMENT AREA (WHERE R=ROOF, P=PAVED, L=LANDSCAPED, S = COMBINED SURFACE)

1. THE EXISTING DRAINAGE LINES SHOWN ON THIS PLAN ARE INDICATIVE AND HAVE BEEN ASSUMED BASED ON THE INFORMATION PROVIDED BY THE CLIENT. THE CONTRACTOR IS TO CARRYOUT INVESTIGATIONS PRIOR TO THE COMMENCEMENT OF WORKS AND DETERMINE THE EXACT LOCATION, SIZE & MATERIAL OF THE EXISTING DRAINAGE SYSTEMS SHOWN ON THESE PLANS ALL INGROUND DRAINAGE PIPES MUST BE Ø100 MINIMUM.
2. PORTIONS OF THE EXISTING DRAINAGE SYSTEMS BEING RETAINED AS SHOWN ON THESE PLANS INCLUDING DOWNPIPES, INGROUND DRAINAGE LINES ETC SERVICING THE EXISTING DWELLING ARE TO BE ASSESSED BY A PLUMBER AND REPLACED WITH NEW IF FOUND TO BE IN POOR WORKING CONDITION. REPLACEMENT OF THE EXISTING DRAINAGE SYSTEM IS TO BE GENERALLY IN ACCORDANCE WITH THESE PLANS.



(SCALE 1:100)

A horizontal scale bar with alternating black and white segments. Above the bar, numerical values are marked at -2.5, 0, 2.5, 5.0, and 7.5. Below the bar, the word 'METRES' is centered.

JOB ADDRESS: 6 SMITH AVENUE, HURLSTONE PARK
A.R.I. IN YEARS: 20
TIME OF CONC.: 5min
RAINFALL INTENSITY: 179mm/hr (OBTAINED FROM B.O.M. NOVEMBER 2024)
MANNINGS ROUGHNESS: 0.01 "n" UPVC

DRAINAGE CALCULATIONS														
L I N	IN - No.	LET - Type	AREA m*2	RUNOFF COEFF. "C"	INLET IMP AREA	DISC "Q" l/s	SIDE - Lin	LINE - Area	TOT. IMP. AREA	DESIGN "Q" l/s	DIA mm	PIPE GRADE %	NOM. CAP. l/s	REMARKS
1	1	DP	9.0	1.00	9.0	0.4			9.0	0.4	100.0	1.0	6.7	ROOF AREA
	2	DP	23.3	1.00	23.3	1.2			32.3	1.6	100.0	1.0	6.7	ROOF AREA
	3	DP	23.3	1.00	23.3	1.2			55.7	2.8	100.0	1.0	6.7	ROOF AREA
	4	GSIP	65.0	0.90	58.5	2.9			114.2	5.7	100.0	1.0	6.7	PAVED AREA
	5	DP	23.3	1.00	23.3	1.2			137.5	6.8	100.0	1.5	8.2	ROOF AREA
	6	DP	6.0	1.00	6.0	0.3			143.5	7.1	100.0	1.5	8.2	ROOF AREA
CONNECT TO PIT 1														
2	1	DP	23.3	1.00	23.3	1.2			23.3	1.2	100.0	1.0	6.7	ROOF AREA
	2	DP	23.3	1.00	23.3	1.2			46.7	2.3	100.0	1.0	6.7	ROOF AREA
	3	DP	23.3	1.00	23.3	1.2			70.0	3.5	100.0	1.0	6.7	ROOF AREA
	4	DP	13.0	1.00	13.0	0.6			83.0	4.1	100.0	1.0	6.7	ROOF AREA
	5	DP	10.0	1.00	10.0	0.5			93.0	4.6	100.0	1.0	6.7	ROOF AREA
CONNECT TO PIT 1														
3	1	DP	10.0	1.00	10.0	0.5			10.0	0.5	100.0	1.0	6.7	ROOF AREA
		LINE 1		1.00				143.5	153.5	7.6	100.0	3.5	12.6	LINE1
		LINE 2		1.00				93.0	246.5	12.3	100.0	3.5	12.6	LINE 2
	DISCHARGE AT KERB & GUTTER													

NOT FOR CONSTRUCTION
- CONCEPT DRAWINGS FOR
DEVELOPMENT APPLICATION

EXTREME CARE SHALL BE
TAKEN WHEN DOING WORK
NEAR EXISTING PIT/STRUCTURES
AND UNDERGROUND CABLES.

LOCATION & DEPTH OF ALL
UNDERGROUND CABLES & SERVICES
TO BE CONFIRMED PRIOR TO
CONSTRUCTION. CONTACT
'DIAL BEFORE YOU DIG' ON 1100



CLIENT: FELICITY BUGDEN

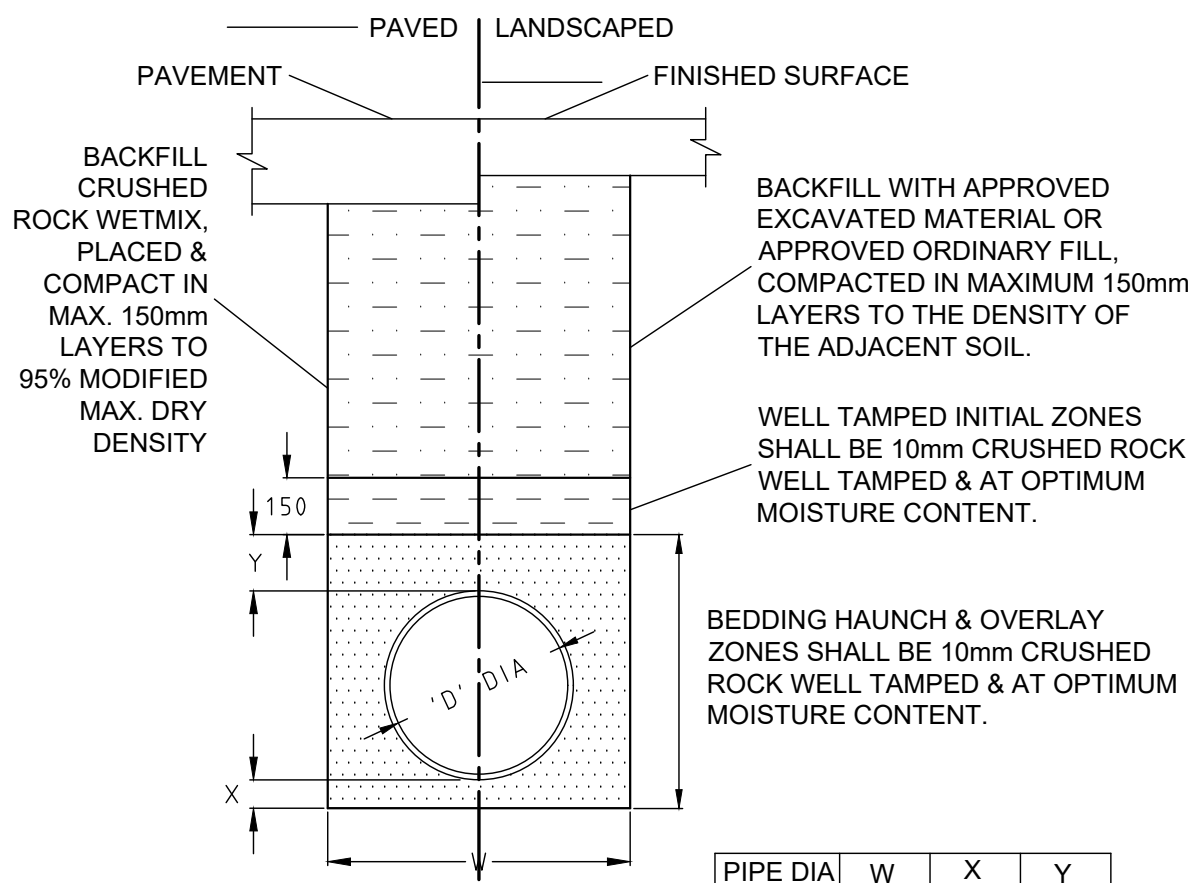
PROJECT: PROPOSED ALTERATIONS & ADDITIONS AT
6 SMITH AVENUE, HURLSTONE PARK

APPROVED:

ADAM GILLETT
B.ENG (Hons), M.I.E. AUST.

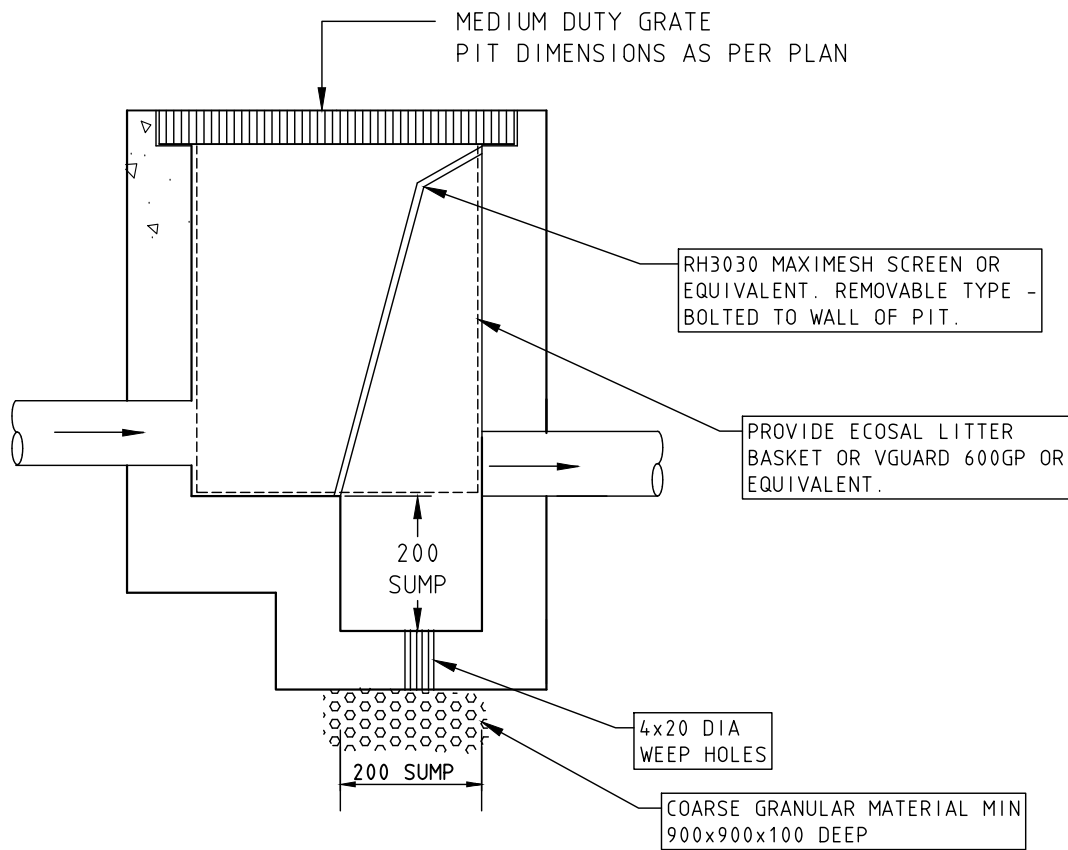
DRAWING TITLE:
**GENERAL DRAINAGE LAYOUT, NOTES &
CALCULATIONS**

			DRAWN BY: AT	ENGINEER: AT
			DATE: 22 NOVEMBER 2024	
A	22/11/2024	FOR APPROVAL	SCALE: AS SHOWN ON A1	SHEET No: C01
ISSUE	DATE	REVISIONS:	JOB NO: 240983	

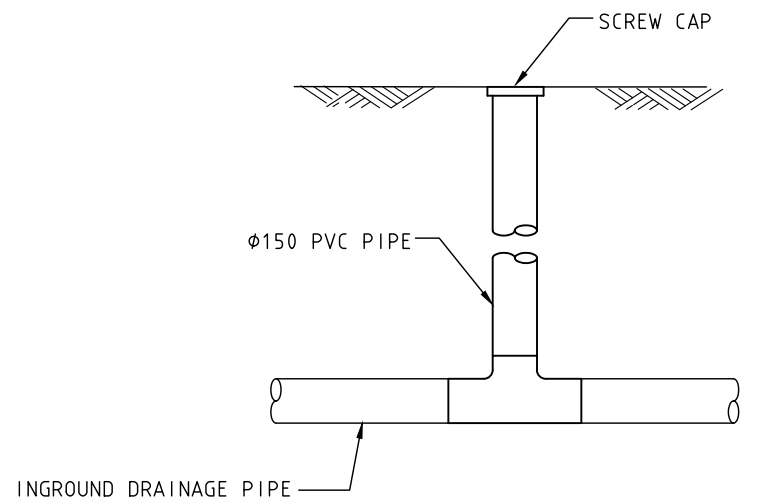


NOTE:
1 REFER TO PIPE LAYING SPECIFICATIONS FOR DETAILS.

UPVC PIPE
TYPICAL PIPE LAYING DETAIL
SCALE 1:20

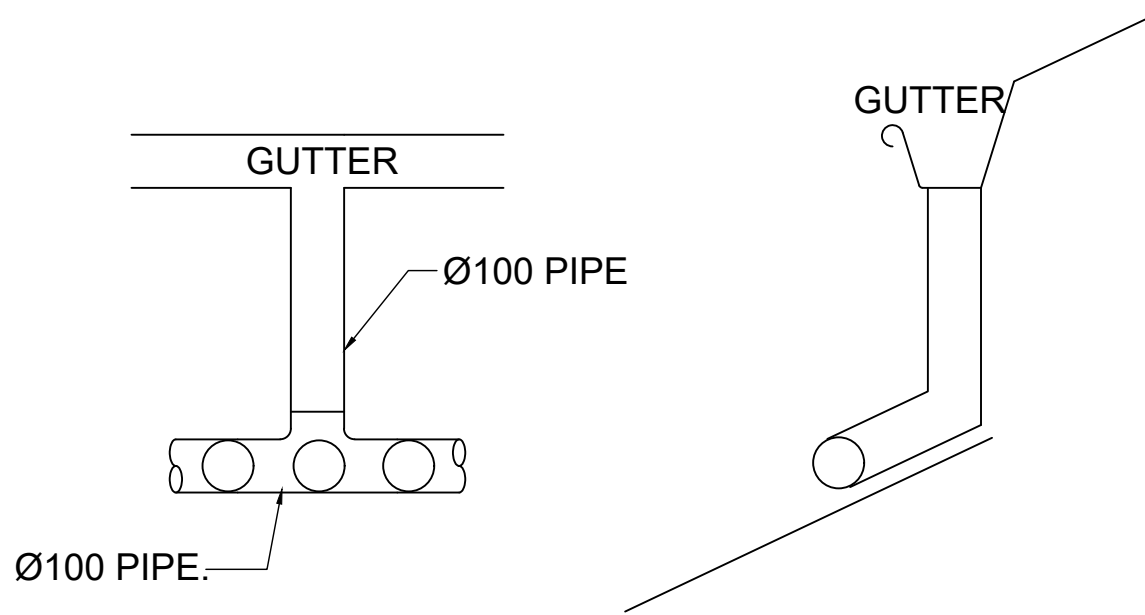


BOUNDARY PIT DETAIL
N.T.S

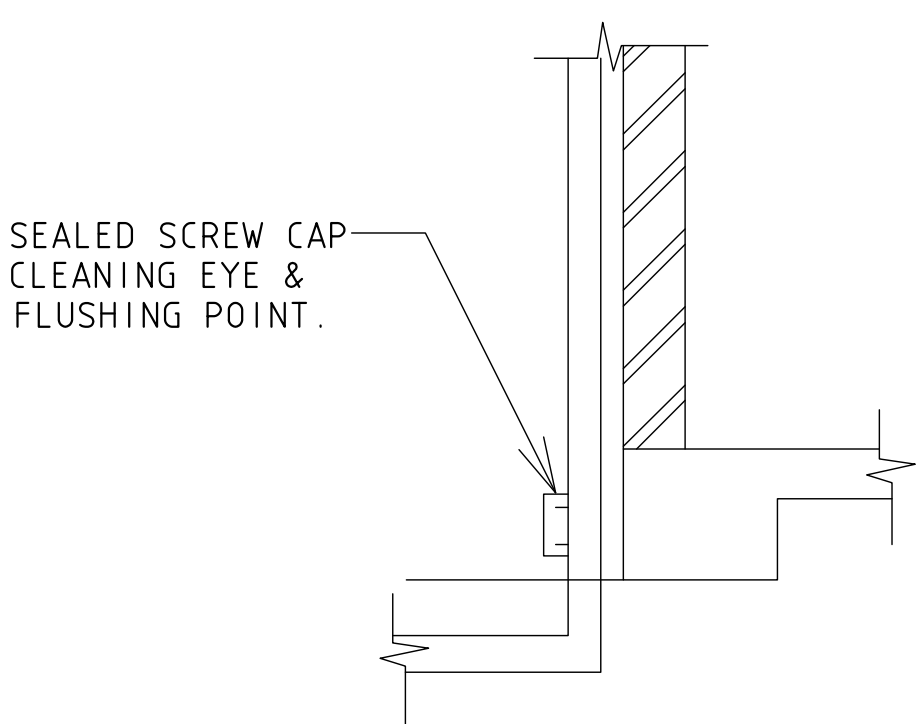


TYPICAL DETAIL -
INSPECTION / CLEANING EYE
N.T.S

NOTE:
CLEANING EYE TO BE PROVIDED AT START OF CHARGED LINES AND AT CRITICAL JUNCTIONS TO BUILDERS DETAIL



TYPICAL DETAIL OF
DOWNPIPE SPREADER
N.T.S



DOWNPIPE DETAIL
N.T.S