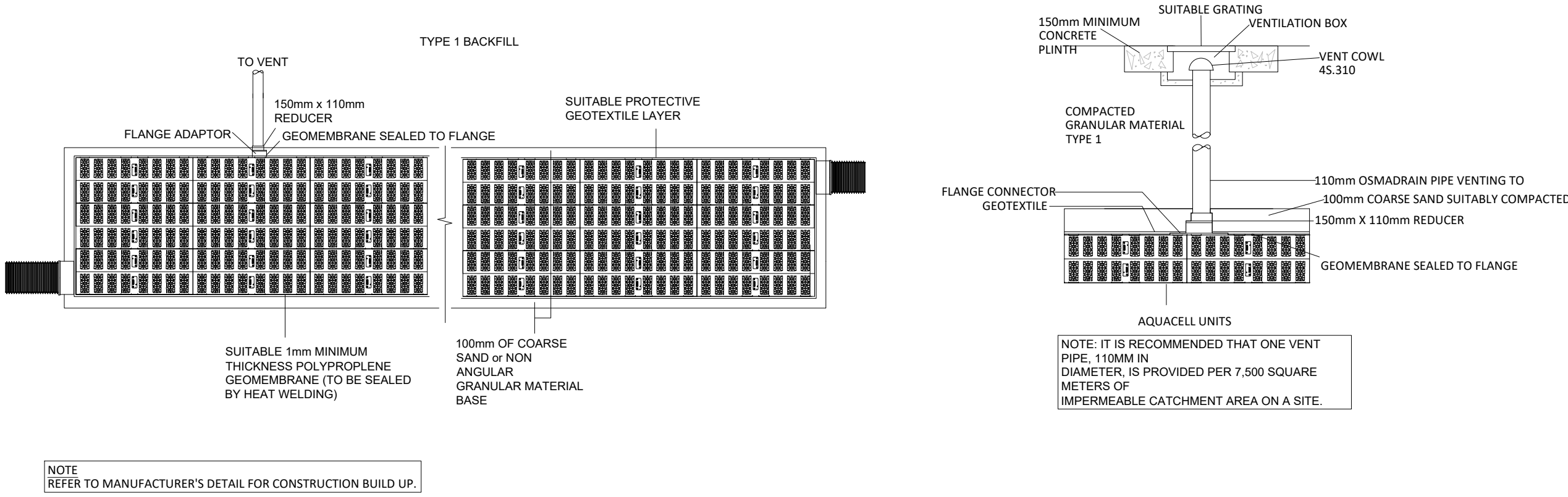
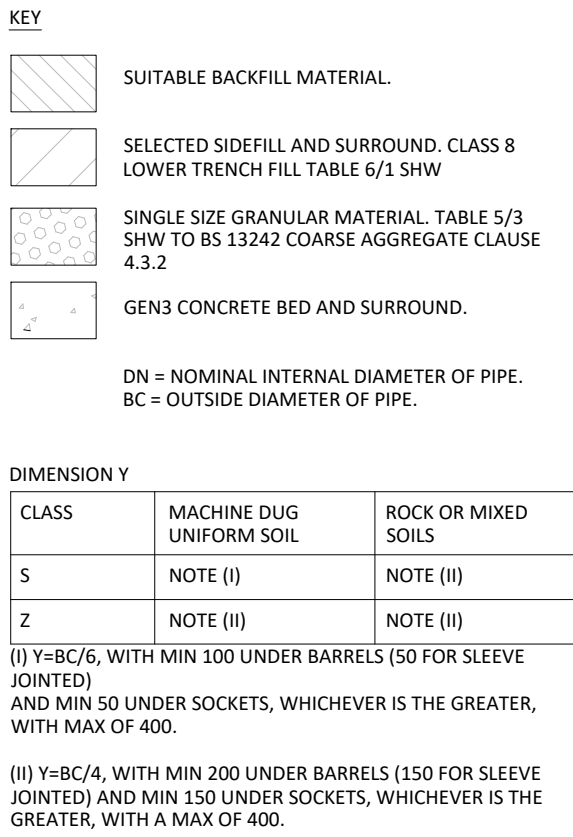


WAVIN AQUACELL PLUS-R INSTALLATION



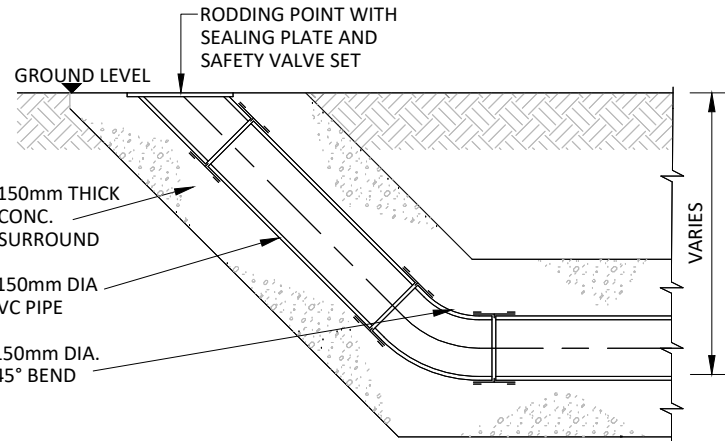
PIPE BEDDING DETAILS

SCALE 1:20



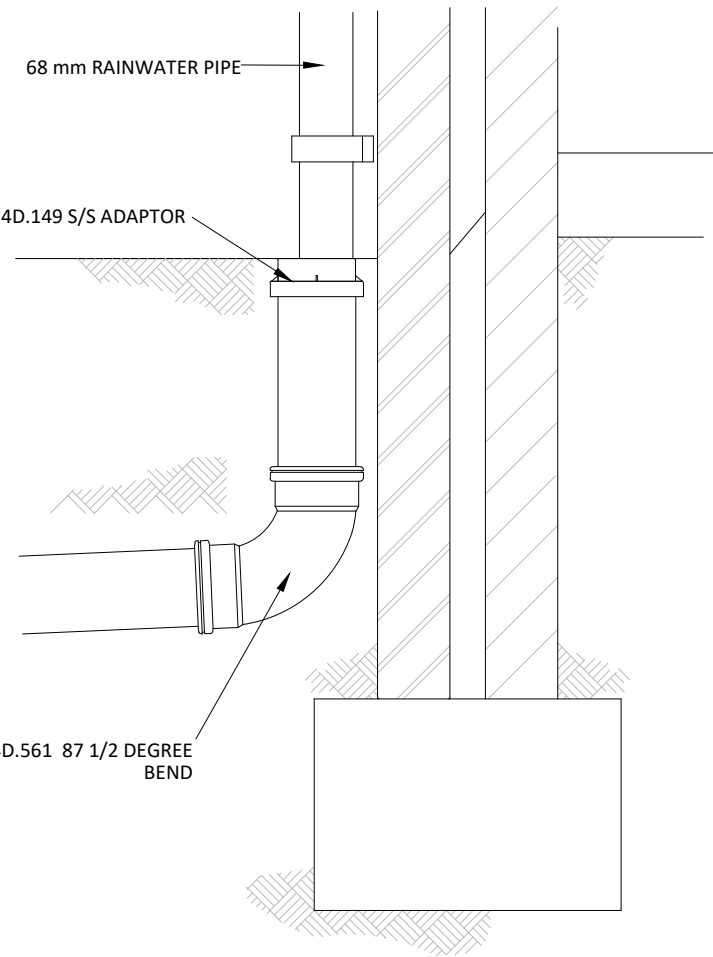
RODDING EYE DETAIL

SCALE 1:20



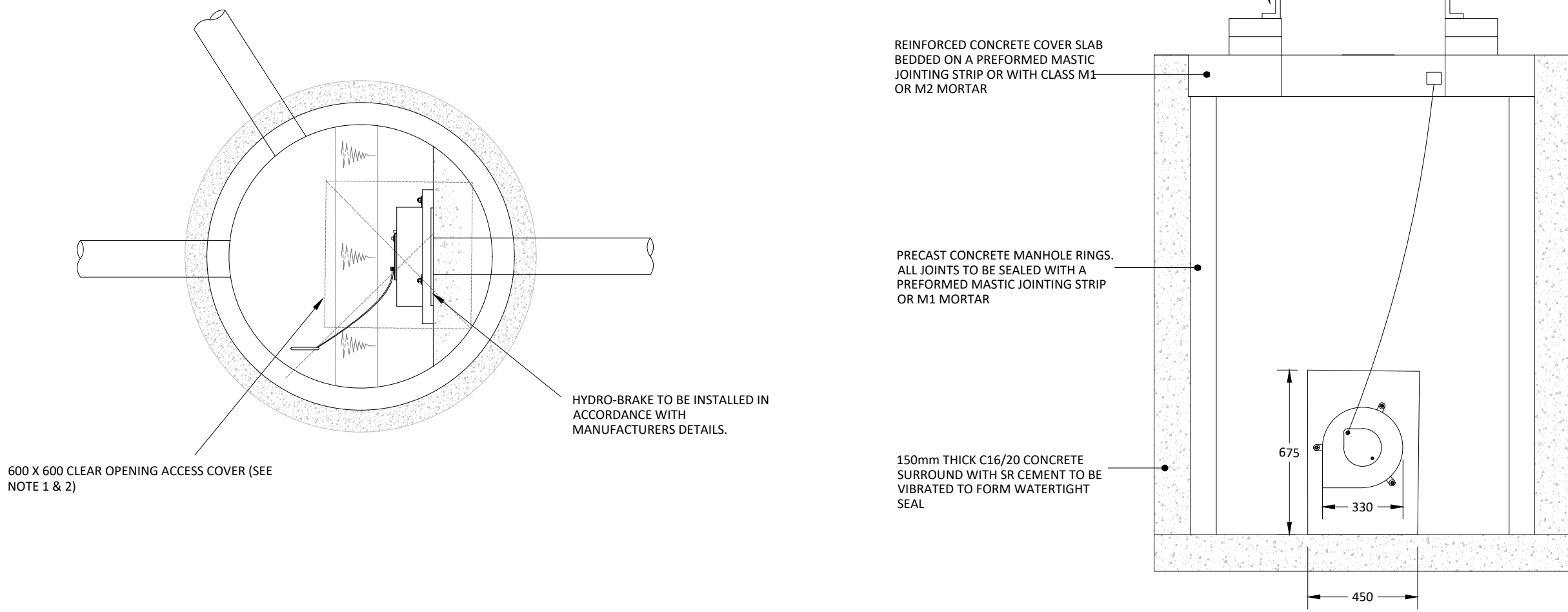
EXTERNAL R.W.P. TO DRAIN

SCALE 1:20



FLOW CONTROL MANHOLE

NTS



- NOTE:
- ACCESS COVER GRADES (DEPTH OF FRAME TO SUIT LOCATION AND HIGHWAY CATEGORY) BS EN 124 CLASS D400 - CARRIAGEWAY AND PARKING AREAS CLASS B125 - FOOTWAYS, ETC.
 - ACCESS COVERS TO HAVE A MINIMUM CLEAR OPENING OF 600mm SQUARE
 - CHAMBER SHALL BE SIZED APPROPRIATELY IN RELATION TO PIPES, MAN ACCESS AND REQUIREMENTS AND REQUIREMENTS OF CONTROL DEVICES
 - PIPES BUILT INTO MANHOLES SHALL HAVE A FLEXIBLE JOINT AS CLOSE AS FEASIBLE TO THE EXTERNAL FACE OF THE STRUCTURE AND THE LENGTH OF THE NEXT ROCKER PIPE SHALL BE AS SHOWN BELOW

NOMINAL DIAMETER (mm)	EFFECTIVE LENGTH (m)
150 - 600	0.60
601 - 750	1.00
OVER 750	1.25

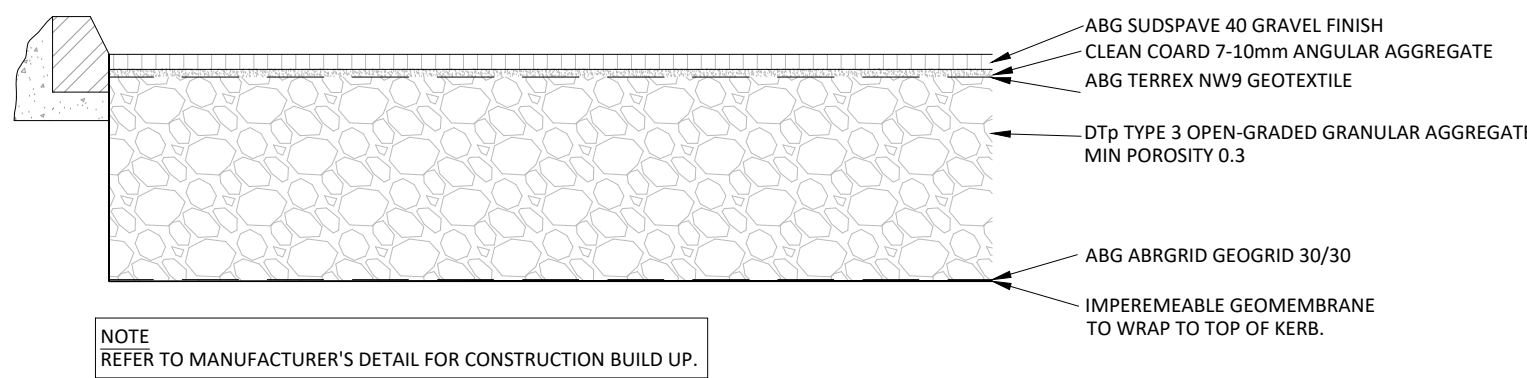
- STEP RUNGS SHALL BE DOUBLE POLYPROPYLENE ENCAPSULATED
- ALL IN-SITU CONCRETE TO HAVE 50-75mm SLUMP AND TO BE VIBRATED TO FORM DENSE WATERTIGHT SEAL WITH PRECAST SECTIONS
- BENCHING TO BE C28/35 OR GRANULITHIC TO FORM DENSE SMOOTH FINISH WITH A 500mm X 500mm FLAT AREA AT BOTTOM OF MAN ENTRY SYSTEM.
- IN-FILL COVERS OF ANY TYPE SHALL NOT BE USED. WHERE A COVER IS LOCATED IN AN AREA OF CLOCK PAVING THE FRAME SHALL BE 150mm DEEP
- FRAME FOR MANHOLE COVERS SHALL BE BEDDED IN A POLYESTER RESIN BEDDING MORTAR IN ALL SITUATIONS WHERE COVERS ARE SITED IN NRSWA ROAD CATEGORIES 1, 2 OR 3.
- LADDERS SHALL BE EITHER STAINLESS STEEL OR GRP. FIXINGS TO BE STAINLESS STEEL. DOUBLE RUNG STEP IRONS ALSO AVAILABLE
- WHERE FITTED LADDERS SHALL BE EXTENDABLE TO A HEIGHT OF 1m ABOVE GROUND LEVEL
- WHERE TOE HOLE PROVIDED IN BENCHING, SIZE OF HOLE SHALL BE 150mm HIGH X 150mm (MIN) DEPTH AND WIDTH. VERTICAL SPACING SHALL BE SAME AS STEP RUNGS
- FRAMES FOR MANHOLE COVERS SHALL BE BEDDED IN A POLYESTER RESIN BEDDING MORTAR IN ALL SITUATIONS WHERE COVERS ARE SITED IN NRSWA ROAD CATEGORIES 1, 2 OR 3.
- UNLESS NOTED OTHERWISE ALL DIMENSIONS ARE IN MILLIMETERS

Technical Specification

Control Point	Head (m)	Flow (l/s)
Primary Design	0.700	1.400
Flush-Flo™	0.212	1.396
Kick-Flo®	0.446	1.145
Mean Flow		1.224

ABG SUDSPAVE 40 - TYPICAL CONSTRUCTION

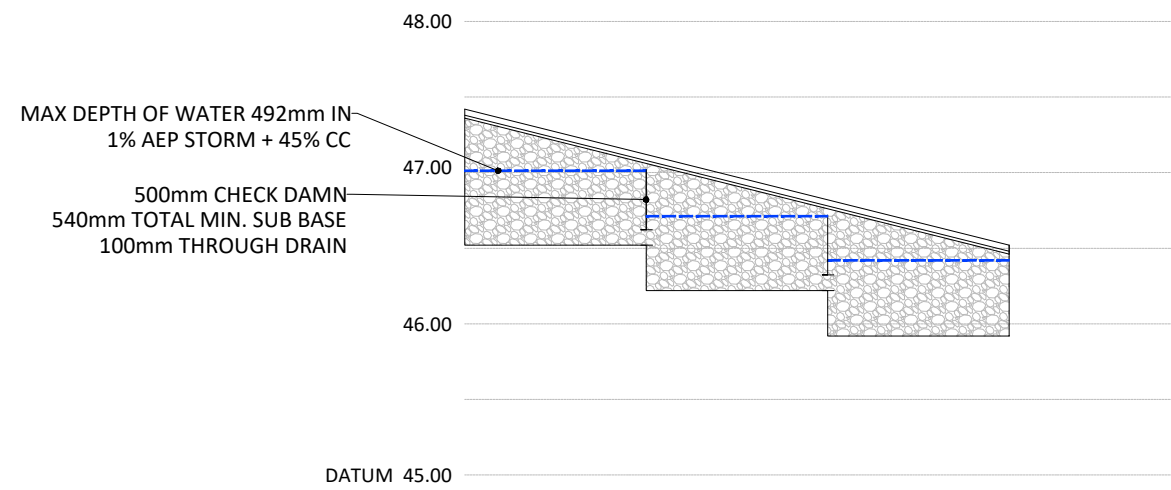
NTS



SECTION A-A PERMEABLE SURFACING SECTION

NTS

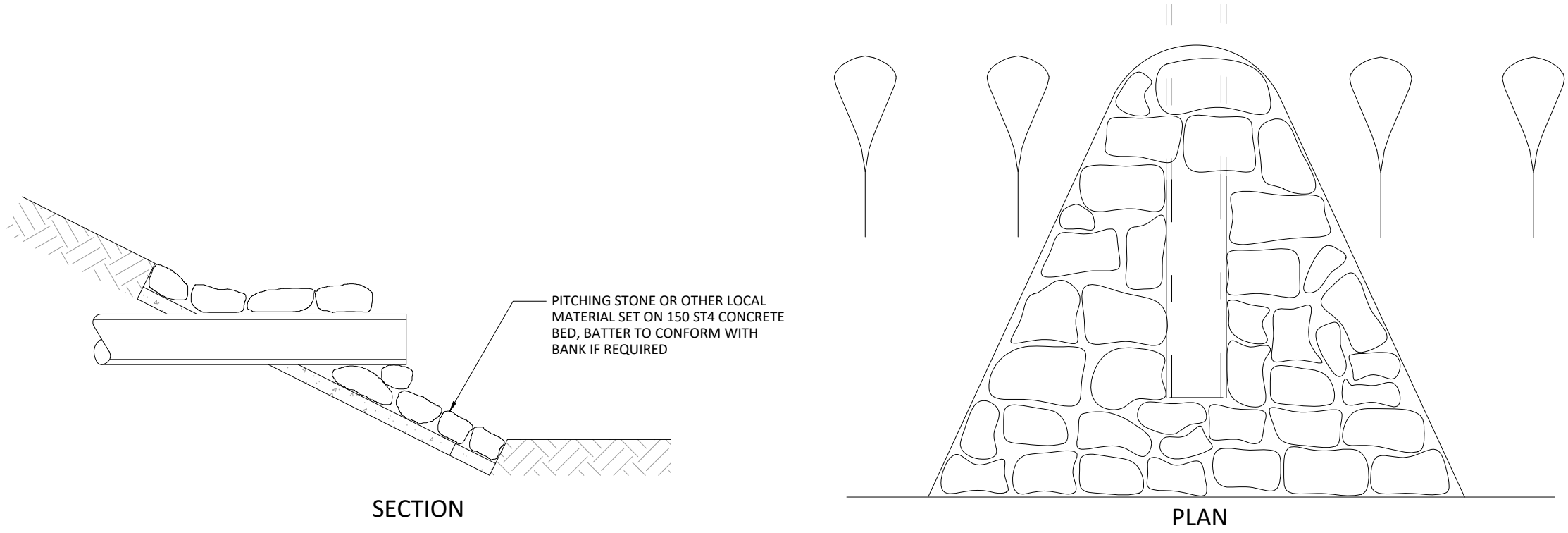
REFER TO DRAWING 0200 FOR SECTION MARKERS



CHAINAGE	0.00	12.00	24.00	36.00
PROPOSED ROAD LEVEL	47.42	47.12	46.82	46.52
ROAD LONGITUDINAL GRADIENT	1:40	1:40	1:40	
INVERT LEVEL	46.52	46.52	46.22	45.92
WATER LEVEL (1% AEP + CC)	47.022	47.012	46.712	46.412

HEADWALL - PIPES LESS THAN 300MM DIAMETER

NTS

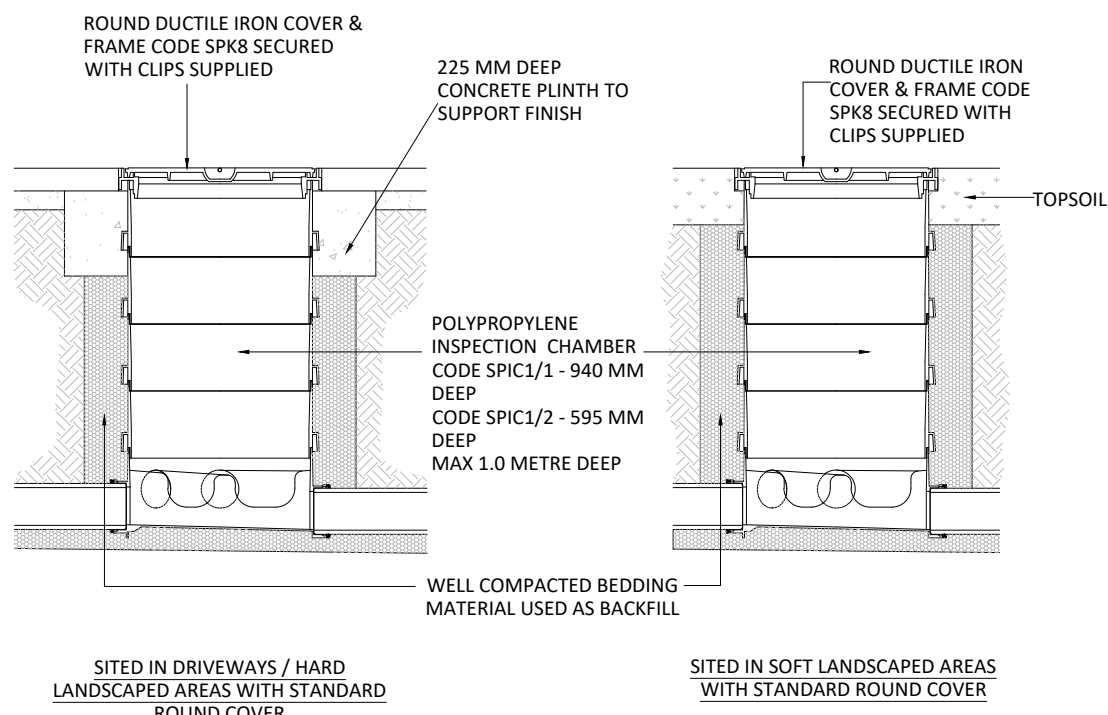


NOTES:

- THE OUTFALL PIPE SHALL PROJECT A MINIMUM OF 50 BEYOND THE HEADWALL TO ALLOW THE DISCHARGE TO BE SAMPLED.
- WHERE REQUIRED SLOTS / BRACKETS SHOULD BE CAST INTO OR FIXED EITHER SIDE OF THE OUTFALL PIPE TO ALLOW POLLUTION CONTROL OFFICERS TO PLACE BOARDING OVER AND LIMIT DISCHARGE DURING A POLLUTION INCIDENT.
- IF THE DEPTH OF COVER TO THE TOP OF THE PIPE IS LESS THAN 450, PROTECTION OF THE PIPE MAY BE NECESSARY.
- GRILLES ON OUTFALLS SHALL BE AVOIDED UNLESS THERE ARE EXCEPTIONAL CIRCUMSTANCES.

POLYPROPYLENE INSPECTION CHAMBER

SCALE 1:20



A	FIRST ISSUE	13.03.25	RP	DB
REV.	DESCRIPTION	Date	BY	CHK
DESIGN BY:				
CLIENT:				
ARTEL 31				
DRAWING STATUS:				
DISCHARGE OF PLANNING CONDITIONS				
SCALE @ A1:				
AS SHOWN				
PROJECT:				
WHITLEY GOLF COURSE				
TITLE:				
DRAINAGE DETAILS				
Project Ref: Originator: Stage: Phase: Number:				REV:
20036-TUM-PL-XXX-0220				A