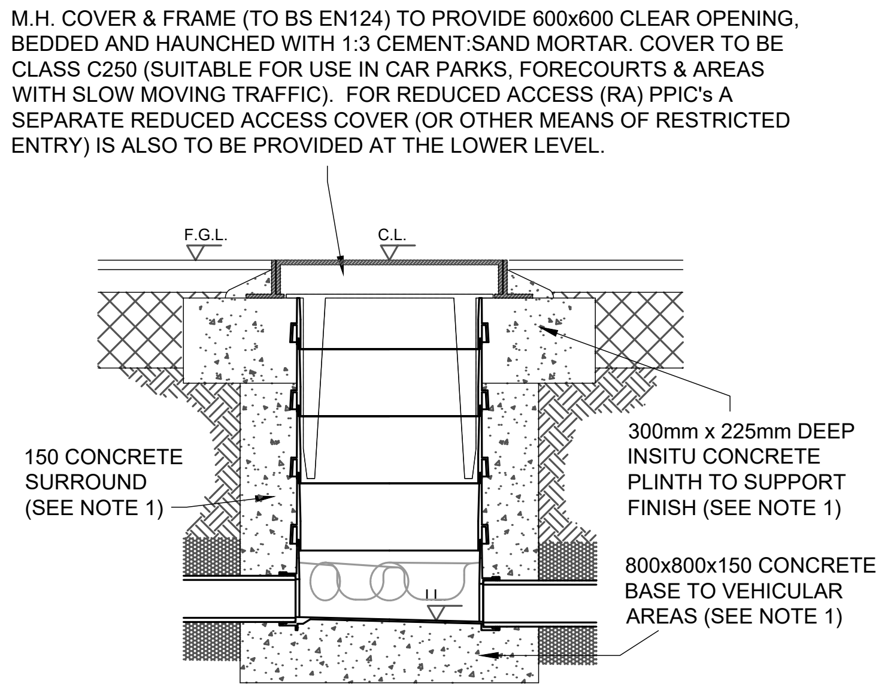
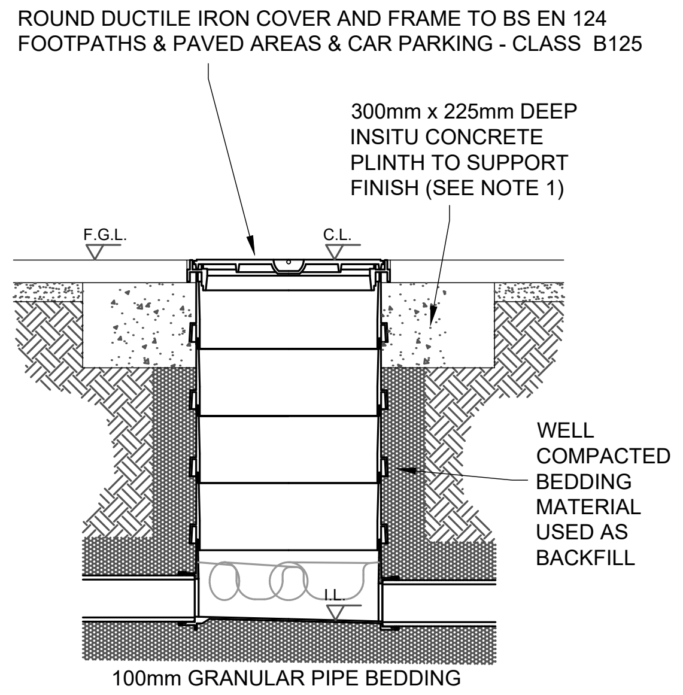
ALL INTERNAL MANHOLES/INSPECTION CHAMBERS TO BE FITTED WITH B125 RECESSED DOUBLE SEALED COVERS TO SUIT ARCHITECTS FLOOR FINISH.


M.H. COVER & FRAME (TO BS EN124) TO PROVIDE 600x600 CLEAR OPENING, BEDDED AND HAUNCHED WITH 1:3 CEMENT:SAND MORTAR. COVER TO BE CLASS C250 (SUITABLE FOR USE IN CAR PARKS, FORECOURTS & AREAS WITH SLOW MOVING TRAFFIC). FOR REDUCED ACCESS (RA) PPIC's A SEPARATE REDUCED ACCESS COVER (OR OTHER MEANS OF RESTRICTED ENTRY) IS ALSO TO BE PROVIDED AT THE LOWER LEVEL.
F.G.L.
C.L.
150 CONCRETE SURROUND (SEE NOTE 1)
300mm x 225mm DEEP INSITU CONCRETE PLINTH TO SUPPORT FINISH (SEE NOTE 1)
800x800x150 CONCRETE BASE TO VEHICULAR AREAS (SEE NOTE 1)
I.L.

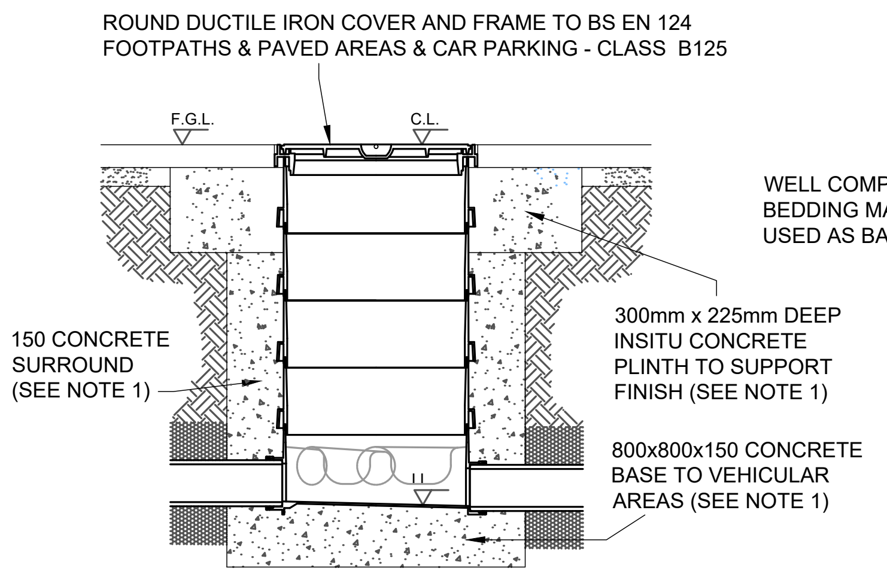
## POLYPROPYLENE INSPECTION CHAMBER LOCATED IN 'SHARED ACCESS' AREAS (ACCESSABLE TO BIN WAGONS ETC)

SCALE - 1:20


ROUND DUCTILE IRON COVER AND FRAME TO BS EN 124 FOOTPATHS & PAVED AREAS & CAR PARKING - CLASS B125
300mm x 225mm DEEP INSITU CONCRETE PLINTH TO SUPPORT FINISH (SEE NOTE 1)
F.G.L.
C.L.
WELL COMPACTED BEDDING MATERIAL USED AS BACKFILL
I.L.
100mm GRANULAR PIPE BEDDING

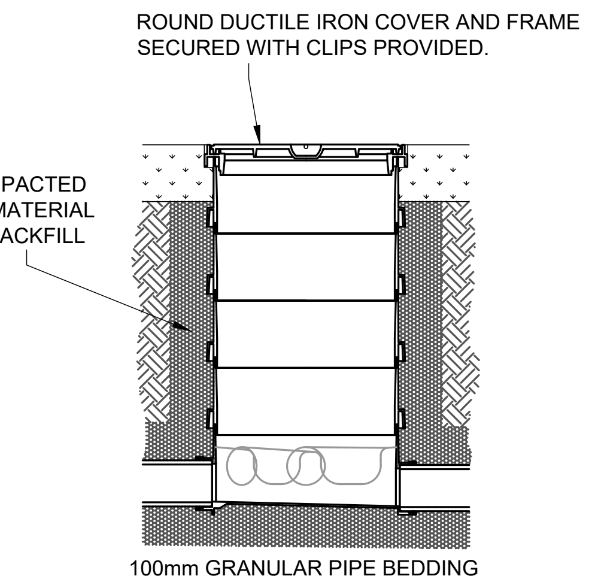
## POLYPROPYLENE INSPECTION CHAMBER LOCATED IN HARD LANDSCAPED AREAS (NOT ACCESSABLE TO WHEELED VEHICLES)

SCALE - 1:20


ROUND DUCTILE IRON COVER AND FRAME TO BS EN 124 FOOTPATHS & PAVED AREAS & CAR PARKING - CLASS B125
F.G.L.
C.L.
150 CONCRETE SURROUND (SEE NOTE 1)
300mm x 225mm DEEP INSITU CONCRETE PLINTH TO SUPPORT FINISH (SEE NOTE 1)
800x800x150 CONCRETE BASE TO VEHICULAR AREAS (SEE NOTE 1)
I.L.

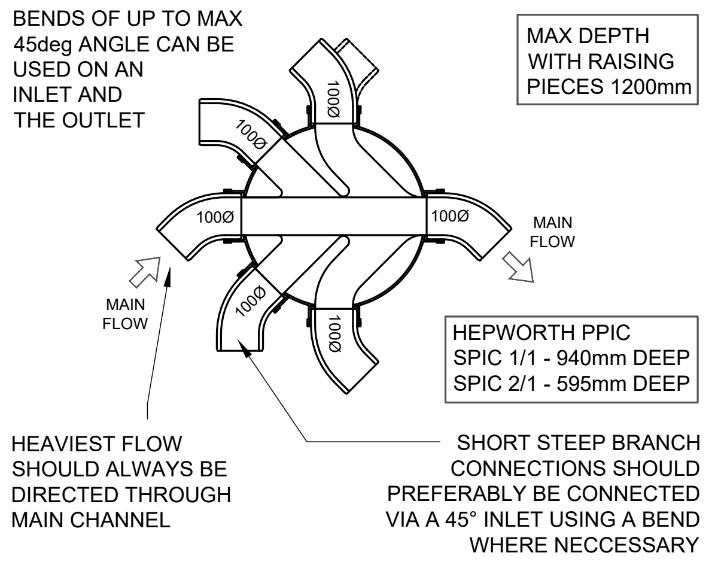
## POLYPROPYLENE INSPECTION CHAMBER LOCATED IN PRIVATE DRIVEWAY AREAS (ACCESSABLE TO DOMESTIC VEHICLES)

SCALE - 1:20


ROUND DUCTILE IRON COVER AND FRAME SECURED WITH CLIPS PROVIDED.
WELL COMPACTED BEDDING MATERIAL USED AS BACKFILL
100mm GRANULAR PIPE BEDDING

## POLYPROPYLENE INSPECTION CHAMBER LOCATED IN SOFT LANDSCAPED AREAS

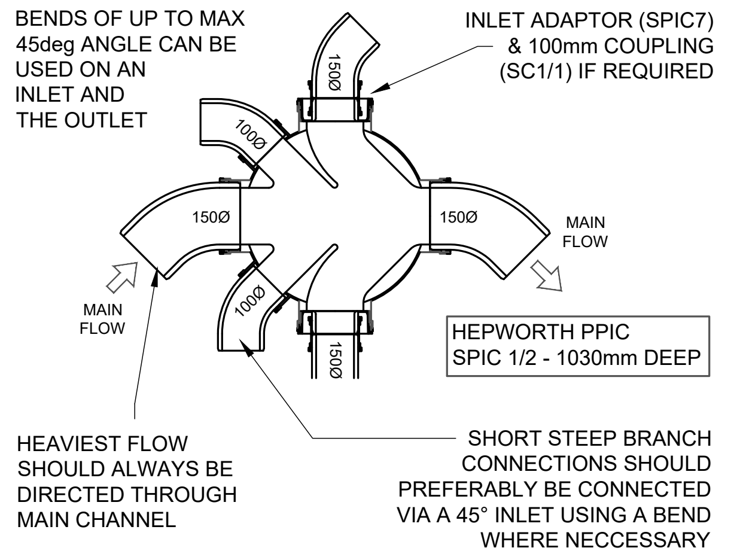
SCALE - 1:20


BENDS OF UP TO MAX 45deg ANGLE CAN BE USED ON AN INLET AND THE OUTLET
MAX DEPTH WITH RAISING PIECES 1200mm
100Ø
100Ø
100Ø
100Ø
100Ø
100Ø
MAIN FLOW
MAIN FLOW
HEPWORTH PPIC SPIC 1/1 - 940mm DEEP SPIC 2/1 - 595mm DEEP
HEAVIEST FLOW SHOULD ALWAYS BE DIRECTED THROUGH MAIN CHANNEL
SHORT STEEP BRANCH CONNECTIONS SHOULD PREFERABLY BE CONNECTED VIA A 45° INLET USING A BEND WHERE NECCESSARY

WHERE CHAMBERS ARE FITTED ON 90° CORNERS ALWAYS USE THE MAIN CHANNEL BY FITTING A 45deg BEND ON INLET & OUTLET.

## PLAN ON PREFORMED BENCHING TO POLYPROPYLENE INSPECTION CHAMBER

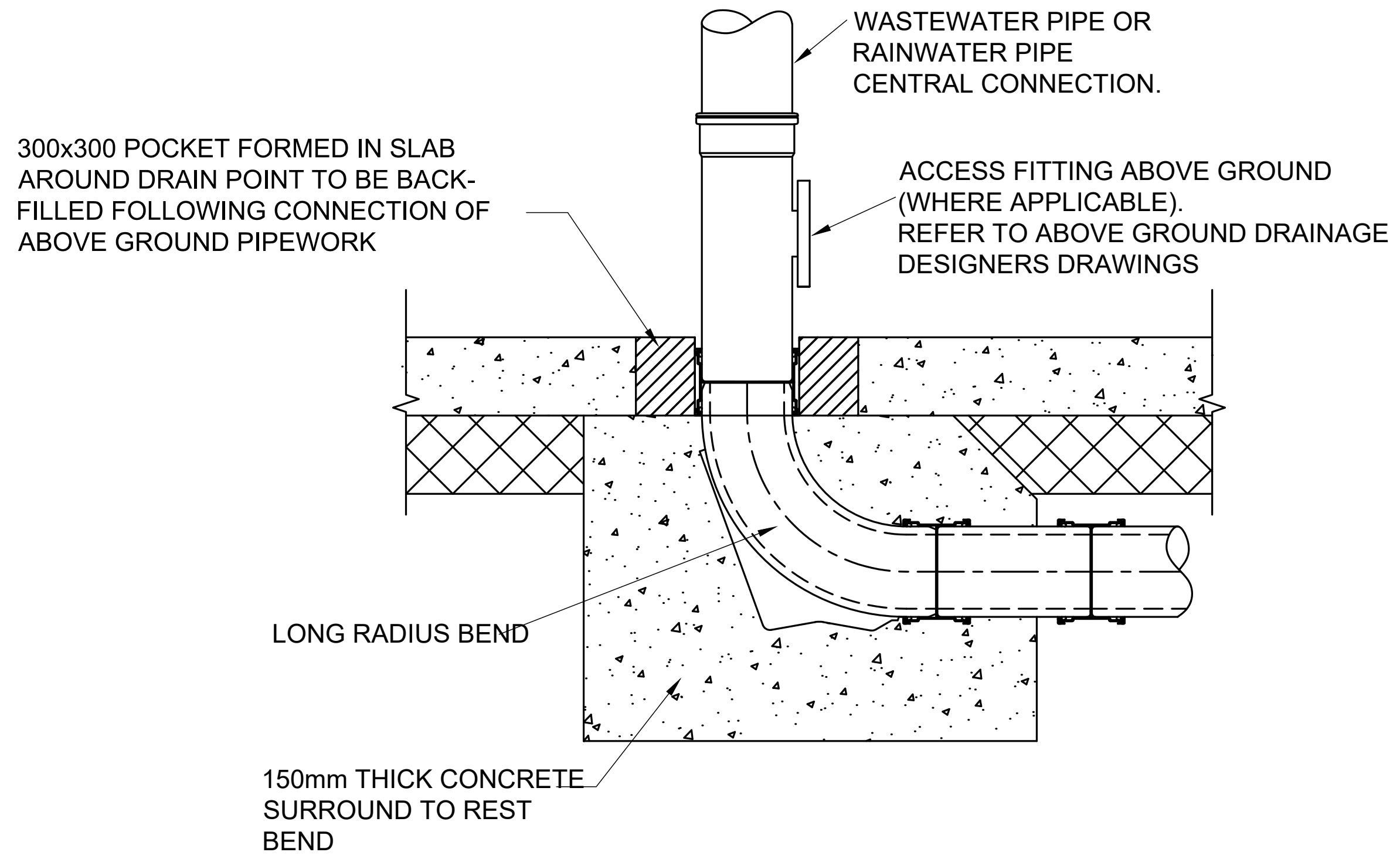
SCALE - 1:20


BENDS OF UP TO MAX 45deg ANGLE CAN BE USED ON AN INLET AND THE OUTLET
INLET ADAPTOR (SPIC7) & 100mm COUPLING (SC1/1) IF REQUIRED
150Ø
100Ø
150Ø
150Ø
100Ø
150Ø
MAIN FLOW
MAIN FLOW
HEPWORTH PPIC SPIC 1/2 - 1030mm DEEP
HEAVIEST FLOW SHOULD ALWAYS BE DIRECTED THROUGH MAIN CHANNEL
SHORT STEEP BRANCH CONNECTIONS SHOULD PREFERABLY BE CONNECTED VIA A 45° INLET USING A BEND WHERE NECCESSARY

WHERE CHAMBERS ARE FITTED ON 90° CORNERS ALWAYS USE THE MAIN CHANNEL BY FITTING A 45deg BEND ON INLET & OUTLET.

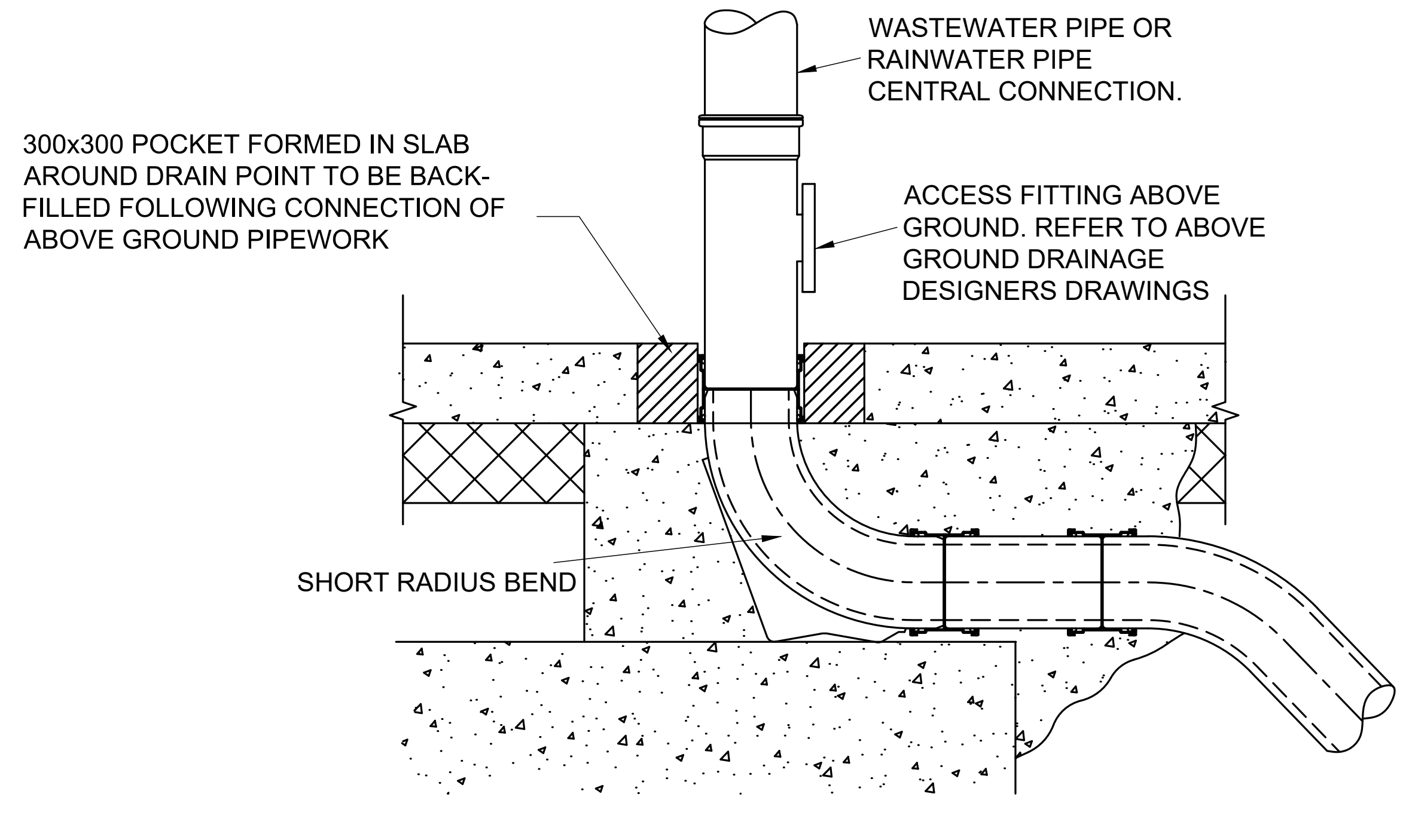
## PLAN ON PREFORMED BENCHING TO POLYPROPYLENE INSPECTION CHAMBER

SCALE - 1:20


WASTEWATER PIPE OR RAINWATER PIPE CENTRAL CONNECTION.
300x300 POCKET FORMED IN SLAB AROUND DRAIN POINT TO BE BACK-FILLED FOLLOWING CONNECTION OF ABOVE GROUND PIPEWORK
ACCESS FITTING ABOVE GROUND (WHERE APPLICABLE). REFER TO ABOVE GROUND DRAINAGE DESIGNERS DRAWINGS
LONG RADIUS BEND
150mm THICK CONCRETE SURROUND TO REST BEND

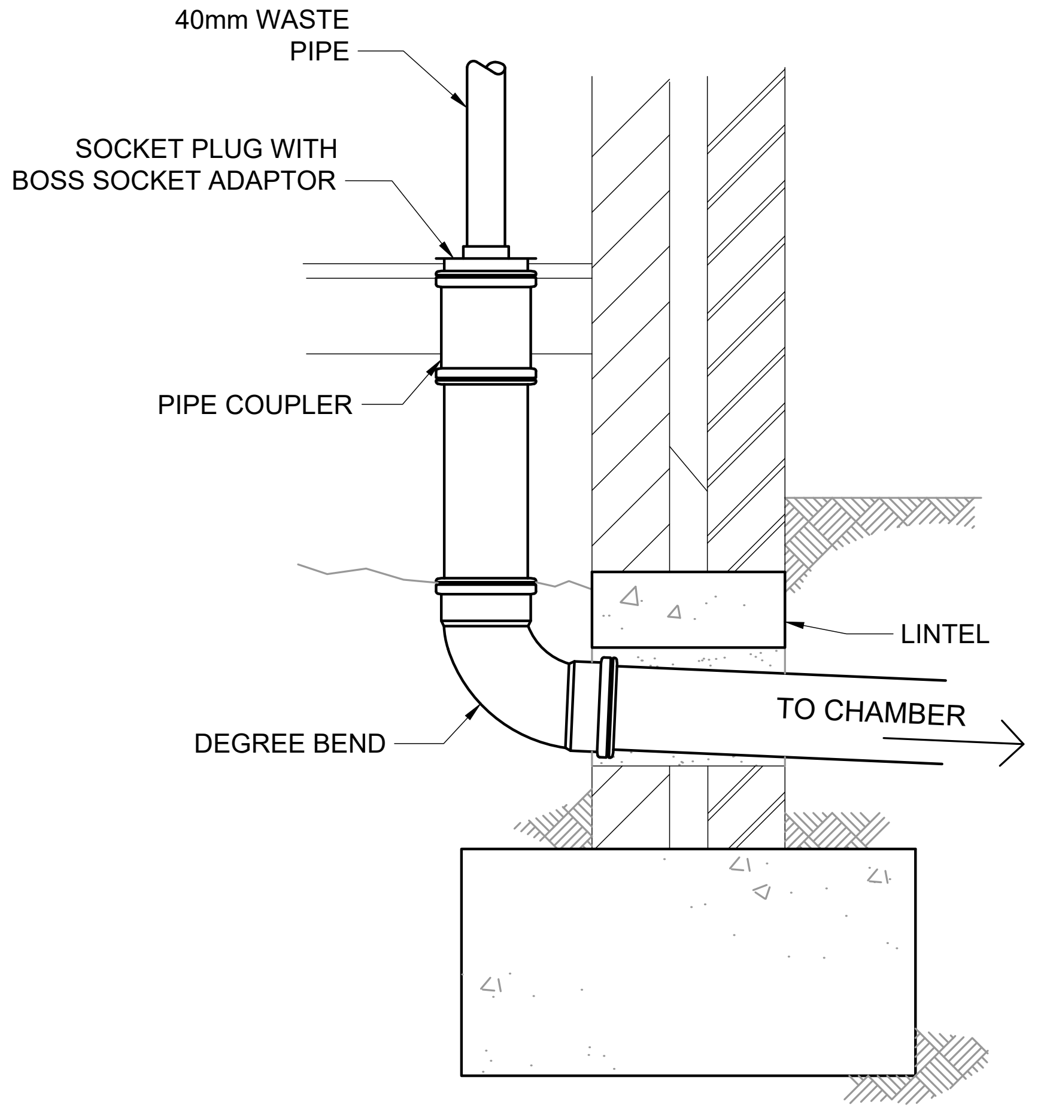
## TYPICAL BELOW GROUND PIPE CONNECTION DETAIL

SCALE 1:10

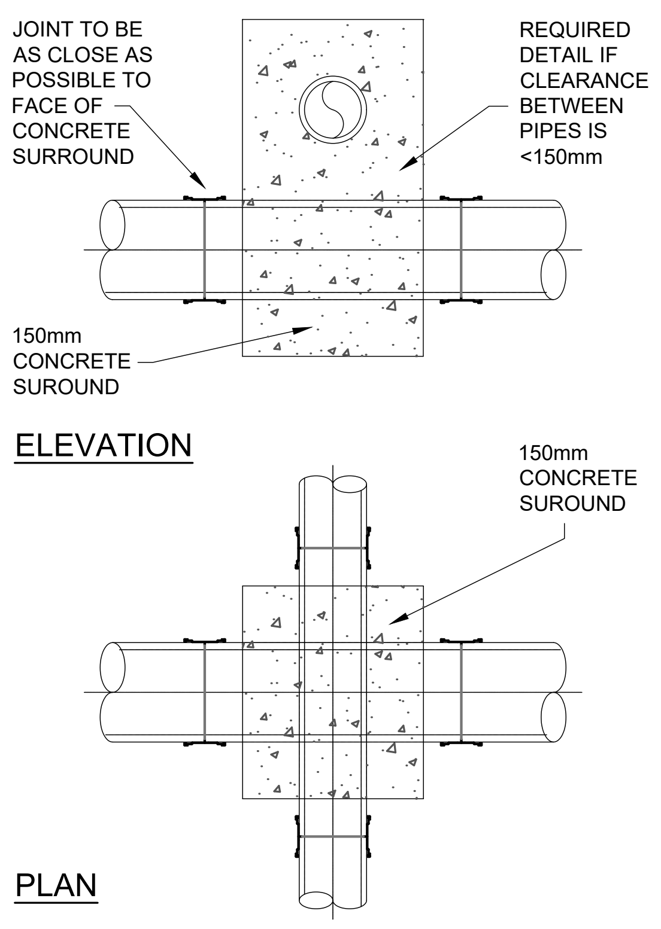

WASTEWATER PIPE OR RAINWATER PIPE CENTRAL CONNECTION.
300x300 POCKET FORMED IN SLAB AROUND DRAIN POINT TO BE BACK-FILLED FOLLOWING CONNECTION OF ABOVE GROUND PIPEWORK
ACCESS FITTING ABOVE GROUND. REFER TO ABOVE GROUND DRAINAGE DESIGNERS DRAWINGS
SHORT RADIUS BEND

## TYPICAL BELOW GROUND PIPE CONNECTION DETAIL (ABOVE FOUNDATION)

SCALE - 1:10

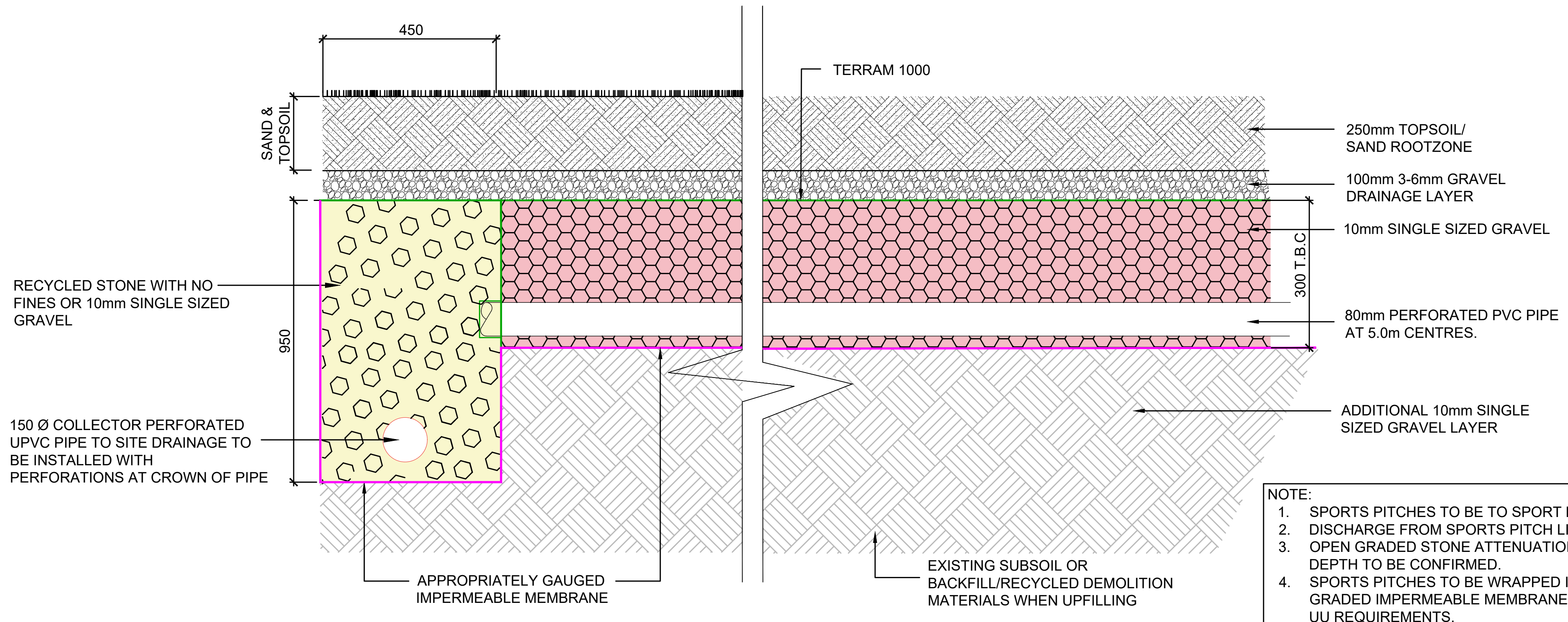


## TYPICAL INTERNAL WASTE PIPE CONNECTION SCALE - 1:10


JOINT TO BE AS CLOSE AS POSSIBLE TO FACE OF CONCRETE SURROUND
REQUIRED DETAIL IF CLEARANCE BETWEEN PIPES IS <150mm
150mm CONCRETE SUROUND
ELEVATION
150mm CONCRETE SUROUND
PLAN

## CONCRETE SURROUND DETAIL AT PIPE CROSSOVERS, NEEDED IF CLEARANCE BETWEEN PIPE CROSSINGS IS < 150mm

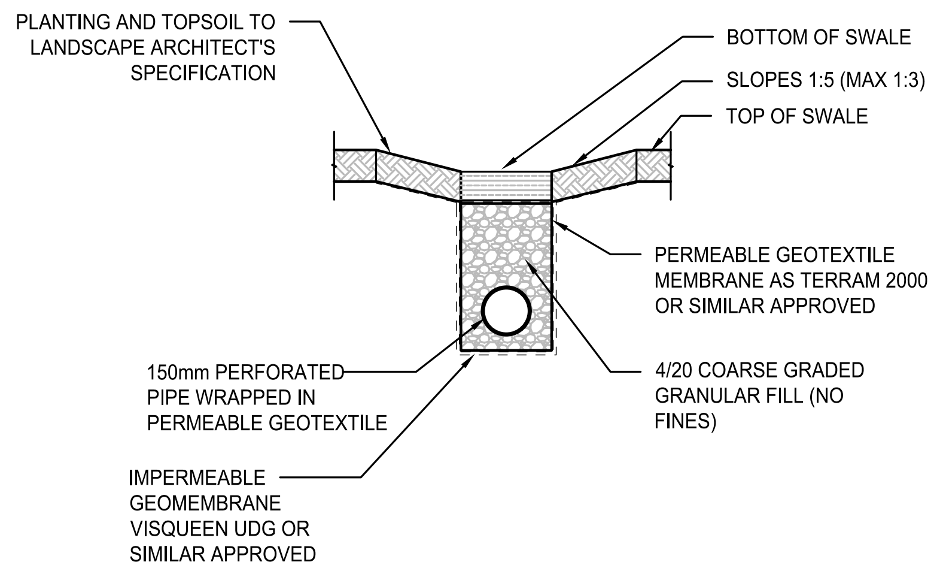
SCALE - 1:20


450
SAND & TOPSOIL
TERRAM 1000
250mm TOPSOIL/ SAND ROOTZONE
100mm 3-6mm GRAVEL DRAINAGE LAYER
10mm SINGLE SIZED GRAVEL
300 T.B.C
950
RECYCLED STONE WITH NO FINES OR 10mm SINGLE SIZED GRAVEL
80mm PERFORATED PVC PIPE AT 5.0m CENTRES.
ADDITIONAL 10mm SINGLE SIZED GRAVEL LAYER
150 Ø COLLECTOR PERFORATED UPVC PIPE TO SITE DRAINAGE TO BE INSTALLED WITH PERFORATIONS AT CROWN OF PIPE
APPROPRIATELY GAUGED IMPERMEABLE MEMBRANE
EXISTING SUBSOIL OR BACKFILL/RECYCLED DEMOLITION MATERIALS WHEN UPFILLING

NOTE:
1. SPORTS PITCHES TO BE TO SPORT ENGLAND STANDARDS.
2. DISCHARGE FROM SPORTS PITCH LIMITED TO 5l/s (PER PITCH).
3. OPEN GRADED STONE ATTENUATION LAYER TO BE PROVIDED, DEPTH TO BE CONFIRMED.
4. SPORTS PITCHES TO BE WRAPPED IN AN APPROPRIATELY GRADED IMPERMEABLE MEMBRANE, IN ACCORDANCE WITH UU REQUIREMENTS.
5. ALL SPORTS PITCH DETAILS TO BE CONFIRMED BY SPECIALIST CONTRACTORS.

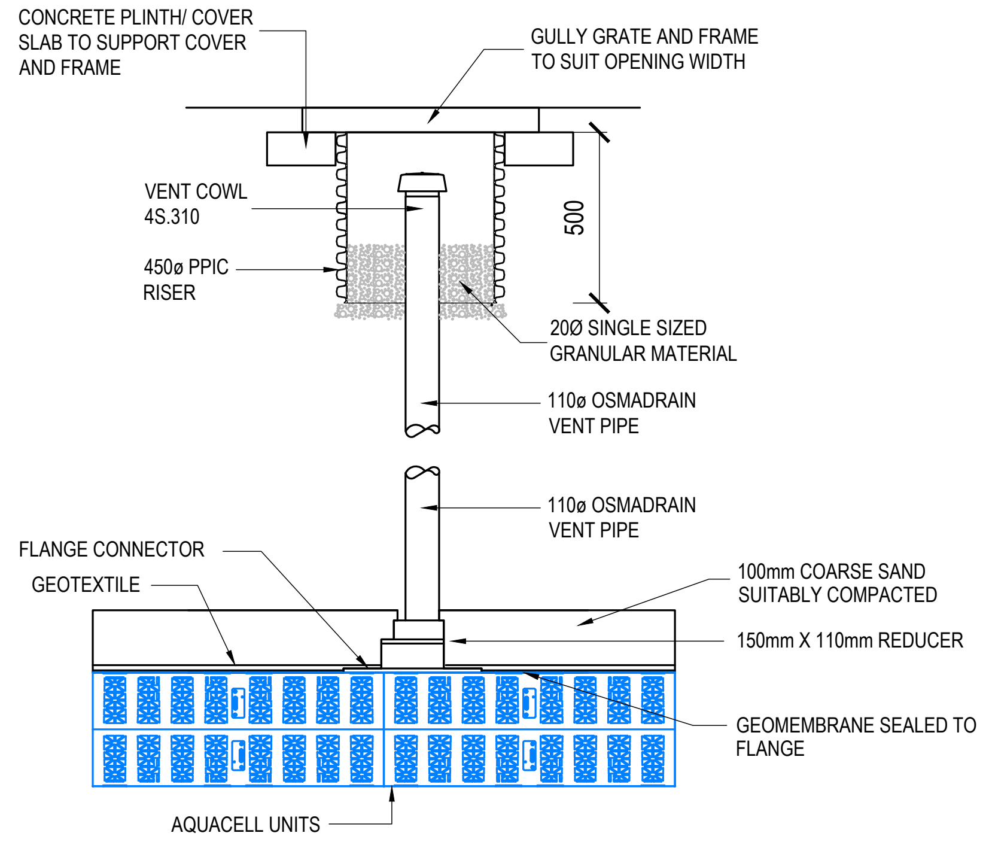
## TYPICAL SECTION THROUGH SPORTS PITCH (TO SPORT ENGLAND STANDARDS)

N.T.S


PLANTING AND TOPSOIL TO LANDSCAPE ARCHITECT'S SPECIFICATION
BOTTOM OF SWALE
SLOPES 1:5 (MAX 1:3)
TOP OF SWALE
PERMEABLE GEOTEXTILE MEMBRANE AS TERRAM 2000 OR SIMILAR APPROVED
150mm PERFORATED PIPE WRAPPED IN PERMEABLE GEOTEXTILE
4/20 COARSE GRADED GRANULAR FILL (NO FINES)
IMPERMEABLE GEOMEMBRANE VISQUEEN UDG OR SIMILAR APPROVED

## TYPICAL FILTER DRAIN / SWALE SECTION

SCALE - 1:25


CONCRETE PLINTH/ COVER SLAB TO SUPPORT COVER AND FRAME
GULLY GRATE AND FRAME TO SUIT OPENING WIDTH
VENT COWL 4S.310
450ø PPIC RISER
500
20Ø SINGLE SIZED GRANULAR MATERIAL
110ø OSMADRAIN VENT PIPE
110ø OSMADRAIN VENT PIPE
FLANGE CONNECTOR
GEOTEXTILE
100mm COARSE SAND SUITABLY COMPACTED
150mm X 110mm REDUCER
GEOMEMBRANE SEALED TO FLANGE
AQUACELL UNITS

## TYPICAL VENT DETAIL SCALE - 1:25

NOTE: IT IS RECOMMENDED THAT ONE VENT PIPE, 110MM IN DIAMETER, IS PROVIDED PER ATTENUATION TANK. VENT POSITION TO BE AGREED ON SITE

P:_MR\P3001502\WIP\CE\BIM\DRAW\210427_HRS-BDP-ZZ-XX-DR-C-EF_50_35-3001_DRAINAGE TYPICAL DETAILS.DWG

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DO NOT SCALE FROM THIS DRAWING.

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WIP FOR PRICING PURPOSES ONLY

| REVISION | DESCRIPTION | DRAWN | CHECKED | DATE |
|---|---|---|---|---|
| P02 | Further updates to sports pitch detail | LJ | DN | 27/04/21 |
| P01 | Updates to sports pitch detail | EW | LJ | 08/04/21 |
| FIRST | - | NC | LJ | 07/04/21 |

KEY PLAN

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PROJECT TITLE
HYDE ROAD SCHOOL

BDP JOB NUMBER
P3001501

ISO 27001 CLASSIFICATION
COMMERCIAL IN CONFIDENCE

DRAWING TITLE
TYPICAL DRAINAGE DETAILS
SHEET 2 OF 2

SCALE
as noted @ A1

DATE
11/03/2021

DRAWING No.
009433-BDP-01-XX-DR-C-520302

REVISION
P02