

30 NOMINAL THICKNESS SURFACE COURSE, 0/10mm SIZE HAPAS APPROVED (BBA CERTIFIED) STONE MASTIC ASPHALT 40/60 GRADE (50 PEN)

60 NOMINAL THICKNESS BINDER, AC 20 DENSE BIN 40/60 REC IN ACCORDANCE WITH CLAUSE 906 OF THE SPECIFICATION FOR HIGHWAY WORKS AND THE RELEVANT PROVISIONS OF BS EN 13108-1

TYPE 1 GRANULAR SUB-BASE MATERIAL TO CLAUSE 803 OF THE SPECIFICATION FOR HIGHWAY WORKS. REFER TO TABLE B FOR ROAD FOUNDATION THICKNESS

TABLE B – ROAD FOUNDATION THICKNESS		
CBR OF SUB-GRADE	SUB-BASE	GEOGRID AND CAPPING
<2%	250*	YES
2-3%	325	-
3-5%	250	-
>5%	150	-

\*NOTE: CBR <2% GROUND IMPROVEMENTS REQUIRED, 320mm CAPPING LAYER WITH TENSAR H-SERIES TYPE A-64672 GEOGRID. ENGINEER TO BE CONSULTED.

CAPPING MATERIAL SHALL ACCORD WITH THE CLASSIFICATION, GRADING AND COMPACTION REQUIREMENTS OF THE SPECIFICATION FOR HIGHWAY WORKS TABLES 6/1, 6/2 AND 6/4

NOTES: GENERAL

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NOTES: BITUMINOUS MATERIALS

- WHERE JOINTS ARE REQUIRED IN THE SURFACE COURSE, THE MATERIAL SHALL BE FULLY COMPACTED AND THE JOINTS MADE FLUSH BY CUTTING BACK THE EXPOSED JOINT TO A DISTANCE OF NOT LESS THAN THE SPECIFIED THICKNESS. THE CUTTING BACK SHALL REMOVE ALL VISIBLE SEGREGATED AND LOOSE MATERIAL. ALL LOOSENED MATERIAL SHALL BE DISCARDED AND THE VERTICAL FACE COATED EVENLY WITH A SUITABLE BITUMEN BASED PRODUCT. ALL JOINTS SHALL BE OFFSET AT LEAST 300mm FROM PARALLEL JOINTS IN THE LAYER BENEATH
- IF THE BINDER COURSE IS USED AS A TEMPORARY RUNNING SURFACE OR IF LAYING OF THE SURFACE COURSE DOES NOT TAKE PLACE WITHIN 3 DAYS, THE SURFACE OF THE BINDER COURSE SHALL BE THOROUGHLY CLEANED AND A BOND COAT APPLIED IMMEDIATELY PRIOR TO THE LAYING OF THE SURFACE COURSE
- AN AGGREGATE OF PSV >50 WILL BE REQUIRED IN THE BINDER COURSE UPPER LAYER IF IT IS TO BE TRAFFICKED LONGER THAN 28 DAYS
- A BITUMINOUS TACK COAT EMULSION (K140 OR K160) SHALL BE APPLIED TO CLEAN AND DRY SURFACES IMMEDIATELY PRIOR TO LAYING SUCCESSIVE COURSES OF BITUMINOUS MATERIALS
- THE ADEQUACY OF COMPACTION OF BITUMINOUS MATERIALS SHALL BE DETERMINED BY THE AIR VOID CONTENT OF THE LAID MATERIAL USING THE METHOD SPECIFIED IN BS598 PART 104 WITH 100mm DIAMETER CORES. REFER TO CONTRACT SPECIFICATION FOR FREQUENCY OF TESTING

20 COMPACTED THICKNESS 100/150  
GRADE (125 PEN) 0/6mm SMA

50 THICKNESS AC 20 DENSE BIN 100/150 REC ASPHALT CONCRETE TO  
SHW CLAUSE 906 AND THE RELEVANT SECTIONS OF BS EN 13108-1

125 THICKNESS TYPE 1 GRANULAR  
SUB-BASE TO SHW CLAUSE 803

GRANULAR SUB BASE SHALL EXTEND  
75 MINIMUM PAST EDGING BED

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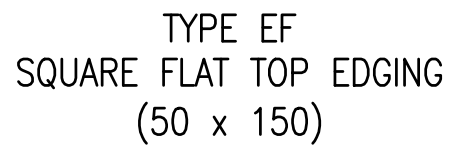
1. THE FORMATION SHALL BE FREE OF ALL VEGETATION, WATER, MUD, SLURRY AND UNSOUND OR UNSTABLE MATERIAL.
2. SOFT OR LOW SPOTS SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL. THE FORMATION SHALL BE ROLLED WITH A SMOOTH WHEEL ROLLER (MINIMUM 2.5 TONNES), OR BY AN EQUIVALENT VIBRATING PLATE OR ROLLER, TO AN ACCURACY OF  $\pm 20\text{mm}$
4. WEED-KILLER (DICHLOBENIL OR SIMILAR APPROVED) SHALL BE APPLIED TO THE FOOTWAY FORMATION BY A QUALIFIED OPERATIVE PRIOR TO THE LAYING OF THE SUB-BASE. SUB-BASE LEFT EXPOSED PRIOR TO THE LAYING OF BITUMINOUS SURFACING SHALL REQUIRE A SECOND APPLICATION OF WEEDKILLER AT THE ENGINEERS DISCRETION.
5. GRANULAR SUB-BASE MATERIAL SHALL BE SPREAD EVENLY WITHOUT DRYING OUT OR SEGREGATION, COMPACTION SHALL BE ACHIEVED BY ROLLING WITH A SMOOTH WHEEL ROLLER WEIGHING AT LEAST 2.5 TONNES OR BY AN EQUIVALENT VIBRATING ROLLER UNTIL NO FURTHER COMPACTION IS POSSIBLE.
6. BITUMINOUS SURFACE MATERIAL SHALL BE SPREAD AND COMPACTIONED TO THE REQUIRED PROFILE AND TO A FINISHED LAYER THICKNESS OF NOT LESS THAN 20mm BY MEANS OF A VIBRATORY ROLLER DELIVERING THE APPROPRIATE COMPACTIVE EFFORT (RECOMMENDED TO BE AT LEAST A 3 TONNE DEADWEIGHT ROLLER). THE FINISHED SURFACE SHALL BE WITHIN PLUS OR MINUS 6mm FROM THE SURFACE LEVEL AS SHOWN ON THE APPROVED DRAWINGS AND FLUSH WITH ADJACENT KERBS, COVER ETC.
7. TACK COAT IS REQUIRED WHERE EXISTING SURFACES ARE TO BE OVERLAID IRRESPECTIVE OF HOW NEWLY LAID. OLDER AND VISUALLY CONTAMINATED SURFACES WILL REQUIRE THOROUGH CLEANING.



DRAWING TITLE

PRIVATE SURFACE FINISHES  
BITUMINOUS FOOTWAY

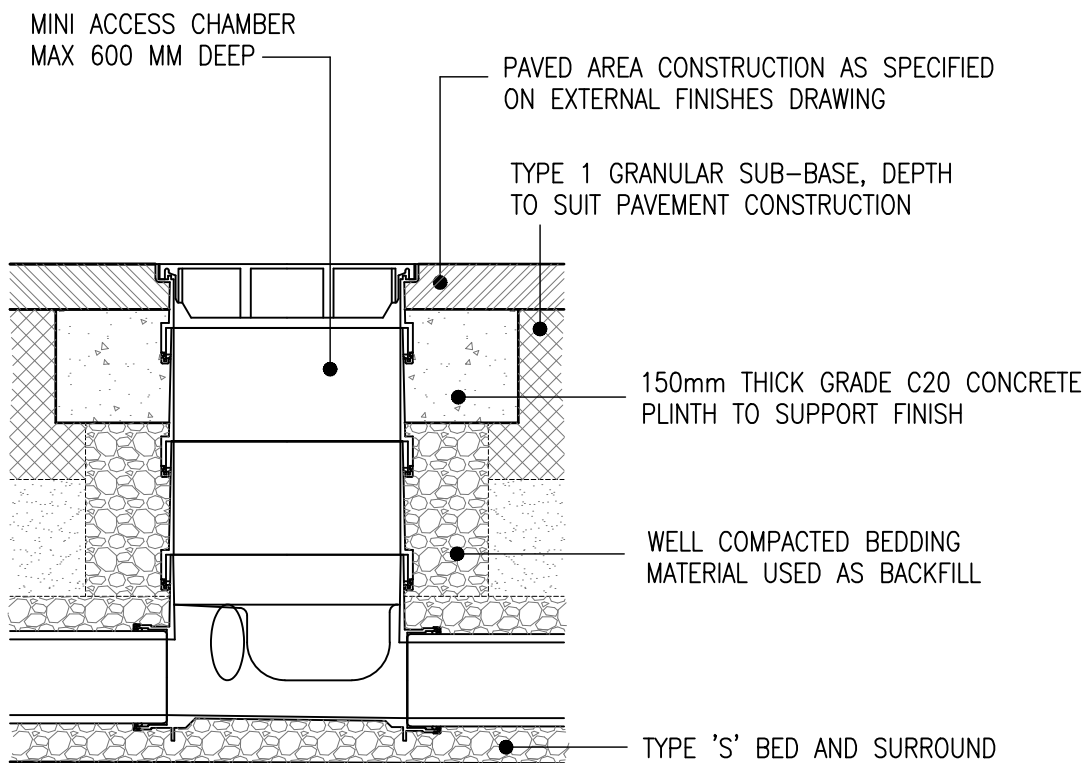
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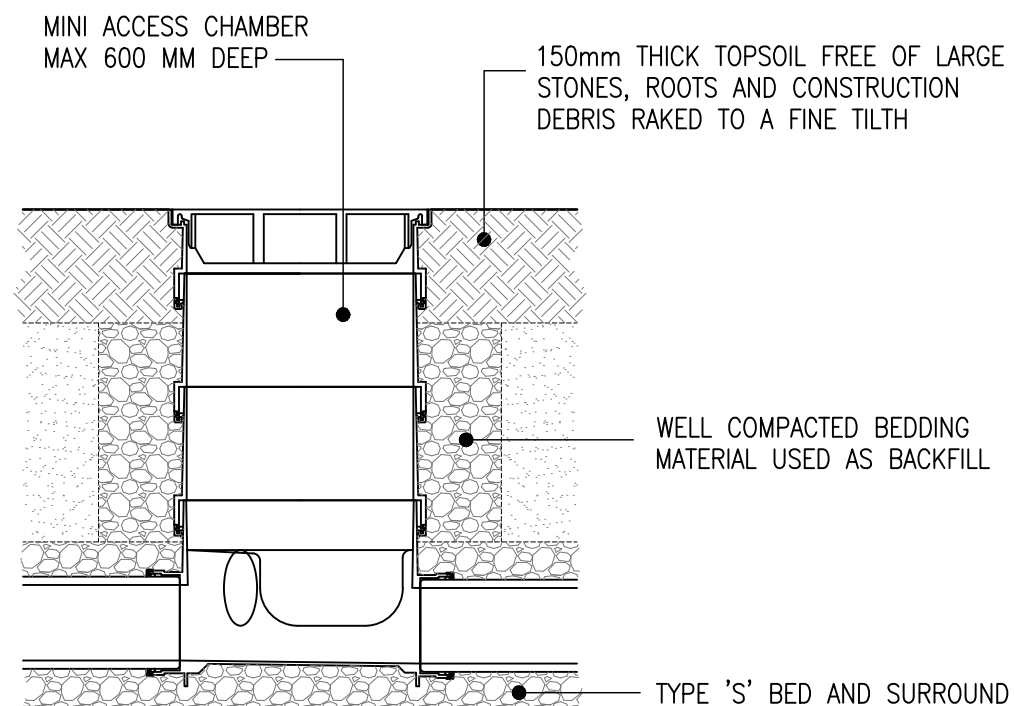
1. PRECAST CONCRETE KERBS, CHANNELS, EDGINGS AND QUADRANTS THAT ARE TO BE HANDLED BY SPECIALIST MACHINERY OR HANDLING DEVICES SHALL BE HYDRAULICALLY PRESSED AND SHALL COMPLY WITH THE REQUIREMENTS OF BS EN 1340.
2. KERB BASES SHALL BE CONSTRUCTED IN CONCRETE GRADE C8/10 OR ST1 TO BS 8500-2 AND BS EN 206-1 TO PARAGRAPH 14.1.3 AND PROPERLY COMPACTED BY TAMPING.
3. KERBS MAY BE LAID DIRECT ON TO THE WET CONCRETE BASE OR ON A MORTAR BED 10 TO 40mm THICK LAID ON A PREVIOUSLY CONSTRUCTED BASE.
4. CONCRETE KERBS SHALL NOT BE USED FOR THE BED OR HAUNCH IF MORE THAN TWO HOURS HAS ELAPSED SINCE THE MIX WAS BATCHED.
5. AFTER LAYING THE LINE OF THE KERBS SHALL BE APPROVED BY THE OVERSEEING ORGANISATION PRIOR TO THEIR BACKING WITH CONCRETE GRADE C8/10 OR ST1 TO BS 8500-2 AND BS EN 206-1.
6. PRECAST CONCRETE KERBS SHALL BE LAID BUTT JOINTED WITHOUT THE NEED FOR A MORTAR JOINT.
7. WHERE IT IS NECESSARY TO CUT KERBS OR PAVING MATERIAL THESE CUTS SHALL BE MADE SAFELY USING A CUTTING WHEEL.
8. NO CUT KERB OR EDGING SHALL BE LESS THAN 450 mm LONG WITHOUT THE APPROVAL OF THE OVERSEEING ORGANISATION.

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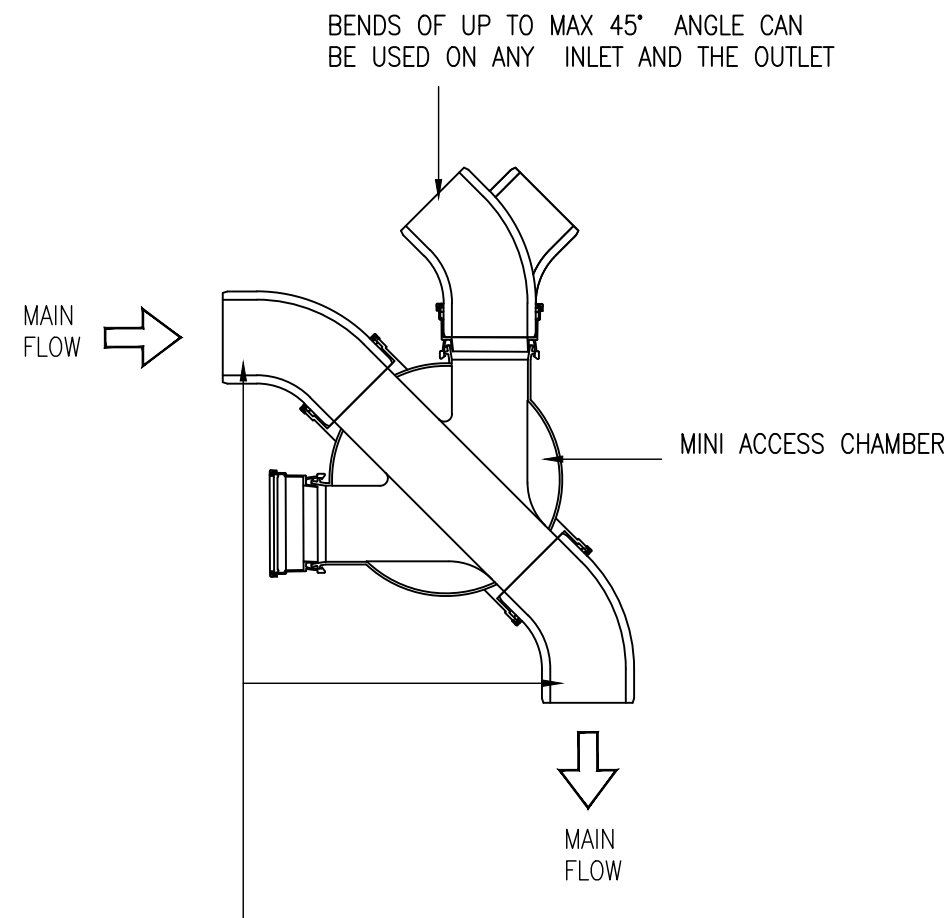
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## DRIVEWAYS AND PAVED AREAS



## LANDSCAPED AREAS



WHERE CHAMBERS ARE POSITIONED ON 90° CORNERS  
ALWAYS USE THE MAIN CHANNEL BY FITTING A 45°  
BEND ON INLET AND OUTLET

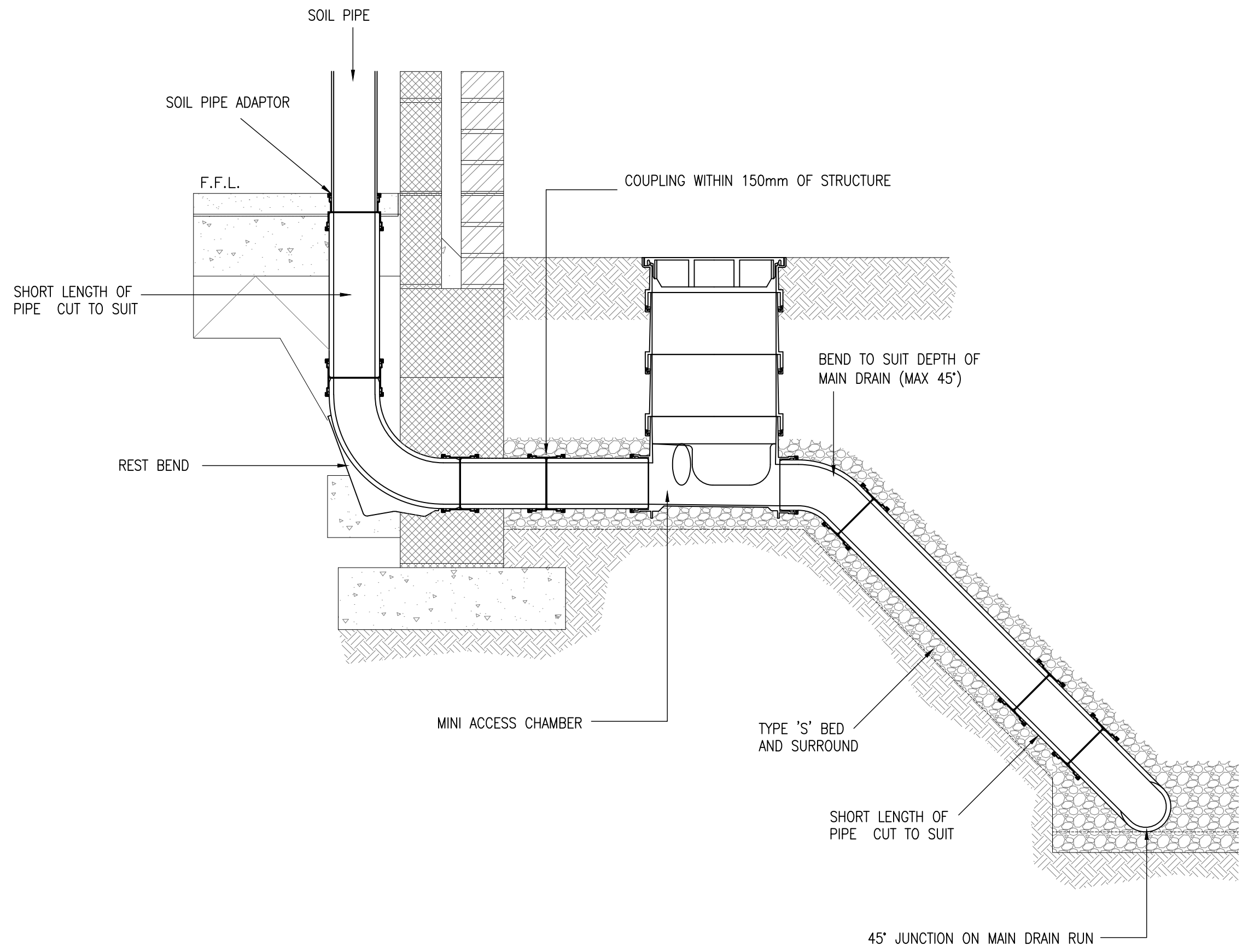
## PLAN VIEW

### NOTES: GENERAL

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### NOTES: ACCESS CHAMBERS

1. ACCESS SHALL BE BUILT INTO DRAINS AT EVERY HEAD OF RUN, CHANGE OF ALIGNMENT OR GRADIENT, MAJOR JUNCTION OR CHANGE IN SIZE.
2. MINI ACCESS CHAMBERS SHALL BE USED UP TO A MAXIMUM DEPTH OF 600mm.
3. ALL UNUSED INLETS SHALL BE CAPPED WITH PROPRIETARY PLASTIC STOPPERS INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS GUIDELINES.
3. CHAMBERS SHALL BE INSTALLED WITH PROPRIETARY FRAMES AND COVERS OF SUITABLE STRENGTH TO SUIT LOCATION.
4. COVERS SHALL BE SET TO LEVEL AND FALL OF FINISHED SURFACE.
5. ON COMPLETION OF ALL WORKS AND PRIOR TO HANDOVER ALL CHAMBERS SHALL BE CLEARED OF CONSTRUCTION DEBRIS AND GENERAL DETRITUS. DEBRIS SHALL NOT BE JETTED INTO DOWNSTREAM ADAPTABLE SEWER.



NOTES: GENERAL

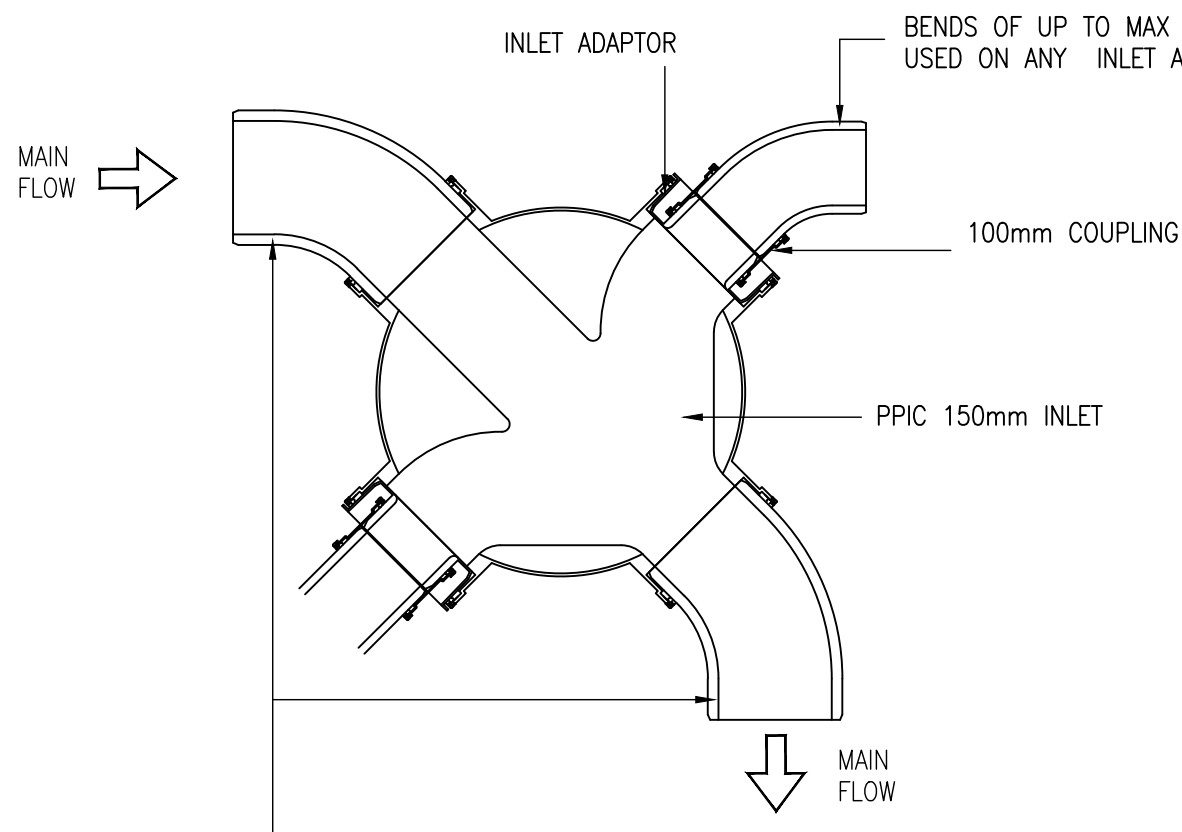
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NOTES: ACCESS CHAMBERS

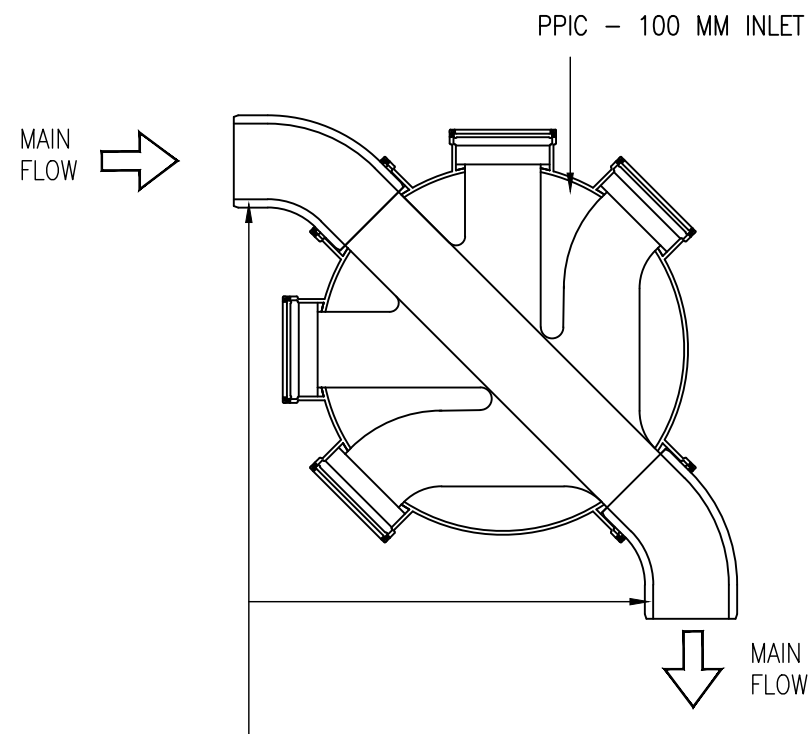
- 1. ACCESS SHALL BE BUILT INTO DRAINS AT EVERY HEAD OF RUN, CHANGE OF ALIGNMENT OR GRADIENT, MAJOR JUNCTION OR CHANGE IN SIZE.
- 2. MINI ACCESS CHAMBERS SHALL BE USED UP TO A MAXIMUM DEPTH OF 600mm.
- 3. ALL UNUSED INLETS SHALL BE CAPPED WITH PROPRIETARY PLASTIC STOPPERS INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS GUIDELINES.
- 3. CHAMBERS SHALL BE INSTALLED WITH PROPRIETARY FRAMES AND COVERS OF SUITABLE STRENGTH TO SUIT LOCATION.
- 4. COVERS SHALL BE SET TO LEVEL AND FALL OF FINISHED SURFACE.
- 5. ON COMPLETION OF ALL WORKS AND PRIOR TO HANDOVER ALL CHAMBERS SHALL BE CLEARED OF CONSTRUCTION DEBRIS AND GENERAL DETRITUS. DEBRIS SHALL NOT BE JETTED INTO DOWNSTREAM ADAPTABLE SEWER.

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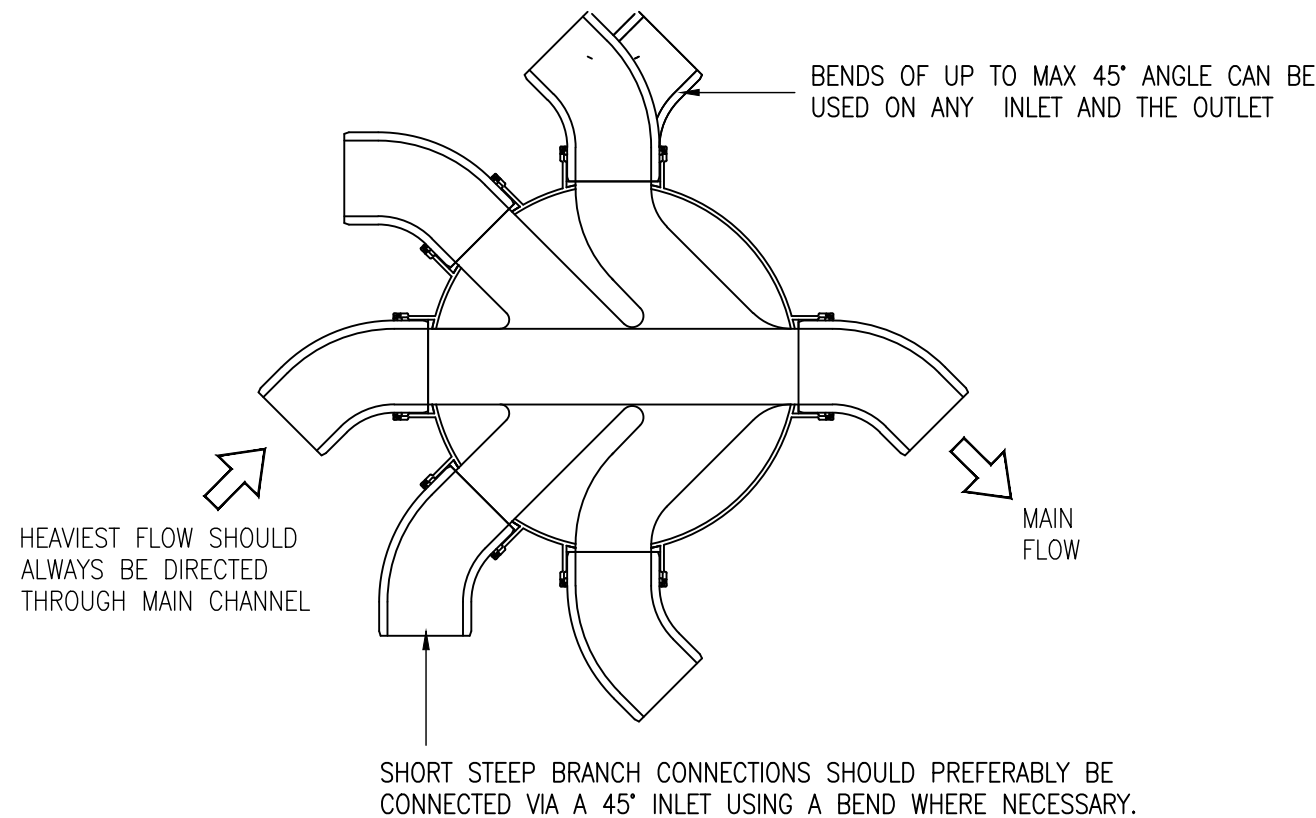




WHERE CHAMBERS ARE POSITIONED ON 90° CORNERS ALWAYS USE THE MAIN CHANNEL BY FITTING A 45° BEND ON INLET AND OUTLET



WHERE CHAMBERS ARE POSITIONED ON 90° CORNERS ALWAYS USE THE MAIN CHANNEL BY FITTING A 45° BEND ON INLET AND OUTLET



#### NOTES: GENERAL

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#### NOTES: INSPECTION CHAMBERS

1. ACCESS SHALL BE BUILT INTO DRAINS AT EVERY HEAD OF RUN, CHANGE OF ALIGNMENT OR GRADIENT, MAJOR JUNCTION OR CHANGE IN SIZE.
2. INSPECTION CHAMBERS SHALL BE USED UP TO A MAXIMUM DEPTH OF 1200mm.
3. ALL UNUSED INLETS SHALL BE CAPPED WITH PROPRIETARY PLASTIC STOPPERS INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS GUIDELINES.
4. ON COMPLETION OF ALL WORKS AND PRIOR TO HANDOVER ALL CHAMBERS SHALL BE CLEARED OF CONSTRUCTION DEBRIS AND GENERAL DETRITUS. DEBRIS SHALL NOT BE JETTED INTO DOWNSTREAM ADOPTABLE SEWER.

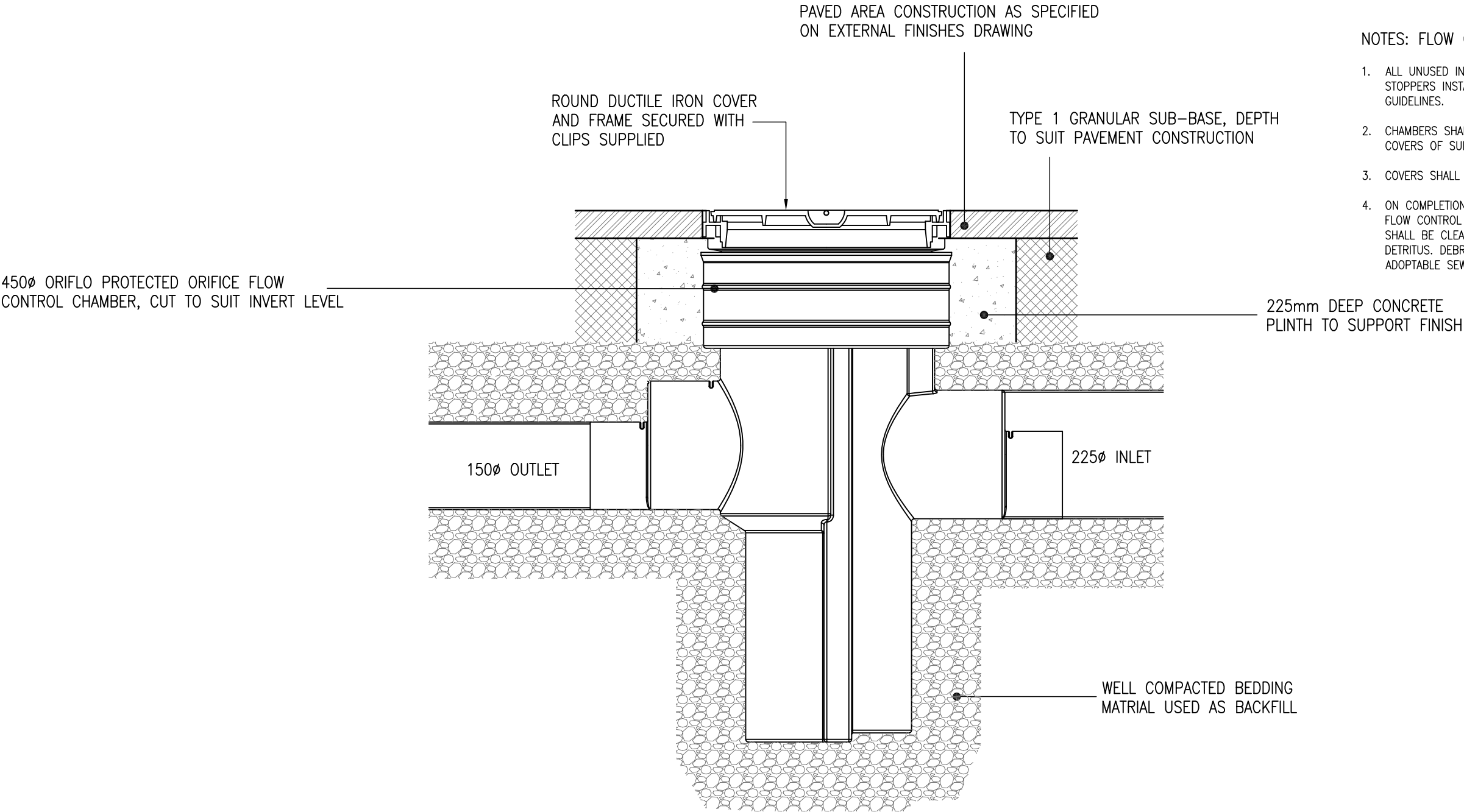
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NOTES: FLOW CONTROL

- 1. ALL UNUSED INLETS SHALL BE CAPPED WITH PROPRIETARY PLASTIC STOPPERS INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS GUIDELINES.
- 2. CHAMBERS SHALL BE INSTALLED WITH PROPRIETARY FRAMES AND COVERS OF SUITABLE STRENGTH TO SUIT LOCATION.
- 3. COVERS SHALL BE SET TO LEVEL AND FALL OF FINISHED SURFACE.
- 4. ON COMPLETION OF ALL WORKS AND PRIOR TO HANDOVER THE FLOW CONTROL CHAMBER AND INCLUDED PROPRIETARY FILTER SHALL BE CLEARED OF CONSTRUCTION DEBRIS AND GENERAL DETRITUS. DEBRIS SHALL NOT BE JETTED INTO DOWNSTREAM ADOPTABLE SEWER.



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1. WHERE PIPES PASS THROUGH THE STRUCTURE BY MEANS OF A LINTEL A GAP OF NOT LESS THAN 50mm MUST BE LEFT AROUND THE PIPE AND EFFECTIVELY SEALED TO PREVENT THE ENTRY OF GAS, BEDDING MATERIAL OR RODENTS.
2. WHERE A PIPELINE IS TO PASS CLOSE UNDER A GROUND BEAM THE BEAM MAY BE TREATED AS A LINTEL. THE PIPELINE SHOULD BE ISOLATED FROM THE GROUND BEAM BY EITHER A 50mm THICK SHEET OF POLYSTYRENE OR 'CLAYBOARD'. FLEXIBLE JOINTS SHALL BE POSITIONED AS CLOSE TO EITHER SIDE OF THE BEAM AS POSSIBLE.
3. ROCKER PIPE LENGTHS ARE STATED BELOW:  
300mmØ                      - 0.6m  
300 TO 450mm           - 0.75m  
450 TO 600mm          - 1.0m
4. FOUL WATER PIPES SHALL BE LAID WITH MINIMUM COVER OF 350 mm BELOW FINAL SURFACE LEVEL.



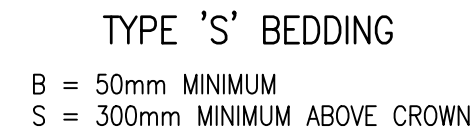
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SIZING OF PIPE BEDDING		
NOMINAL BORE OF PIPE	SINGLE SIZE (mm)	GRADED (mm)
100 – 125	10	–
150 – 200	10 OR 14	14 TO 5
225 – 300	10, 14 OR 20	14 TO 5 OR 20 TO 5

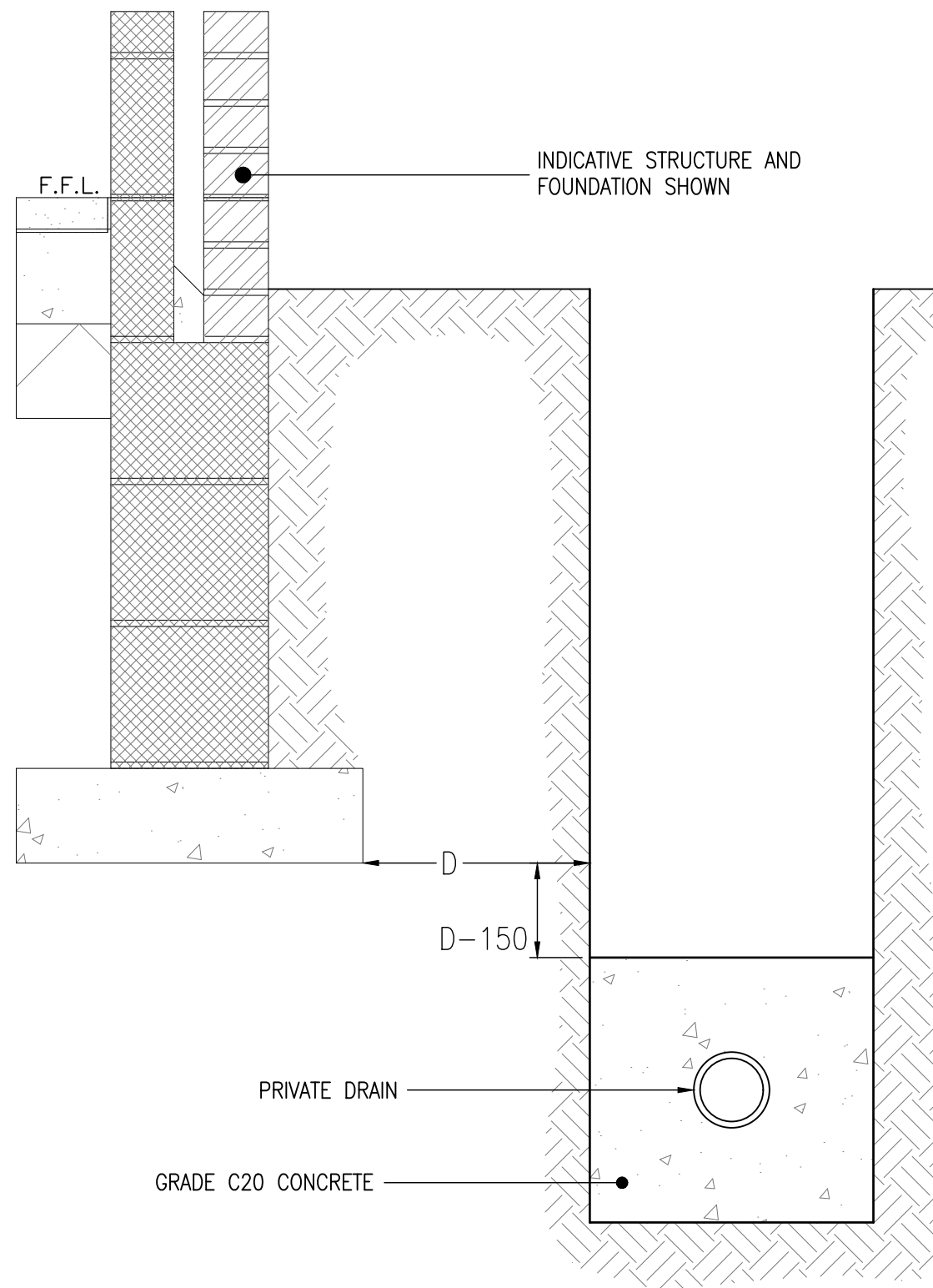
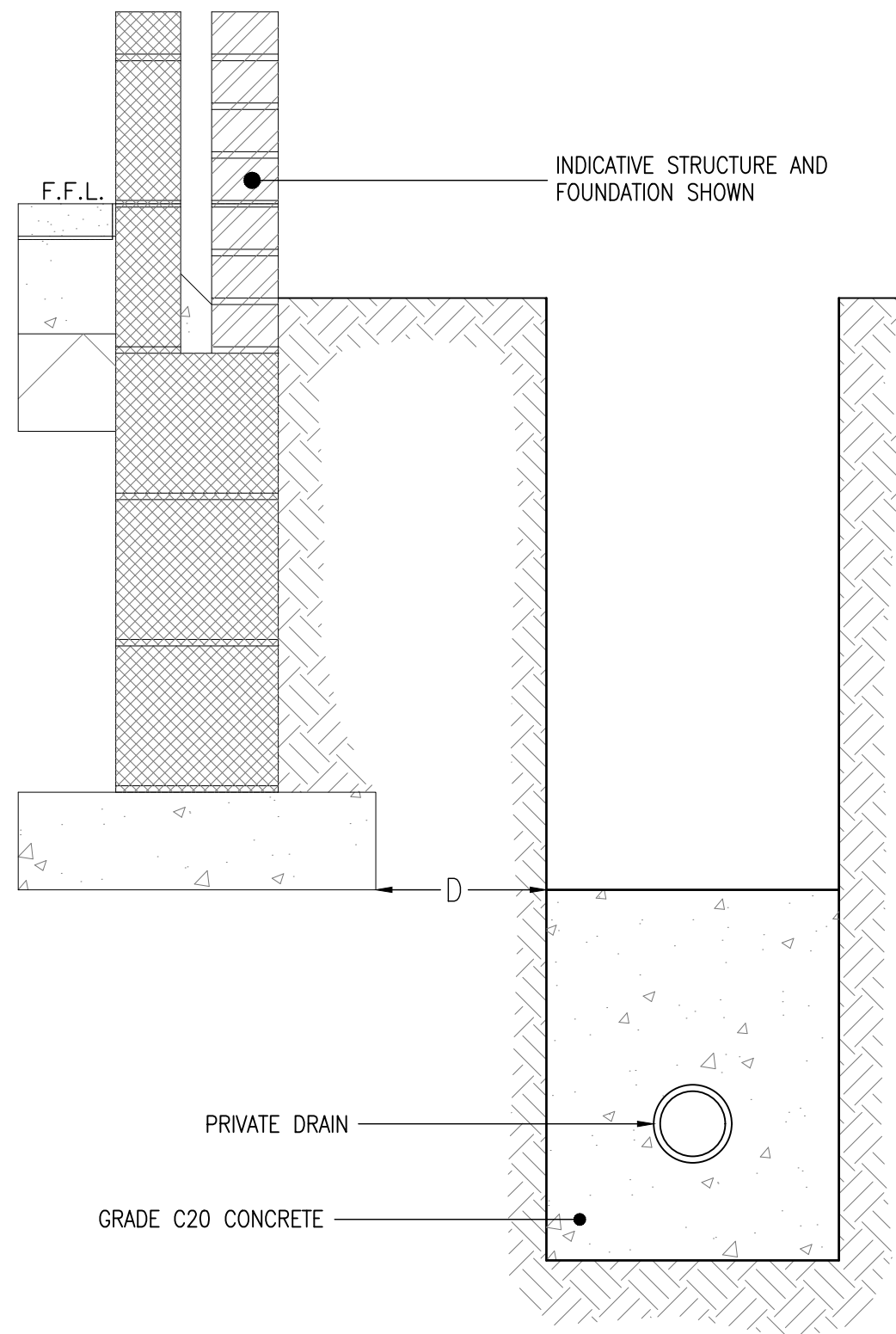
STANDARD 50mm BEDDING DEPTH TO BE INCREASED TO 150mm IN ROCK OR MIXED SOILS WITH HARD SPOTS

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NOTES: PIPE BEDDING / TRENCHES

1. TRENCH EXCAVATION AND PIPE BEDDING SHALL COMPLY WITH THE REQUIREMENTS OF SEWERS FOR ADOPTION AND THE CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY.
2. PRIOR TO ANY EXCAVATION THE POSITION OF ALL UNDERGROUND SERVICES SHALL BE ESTABLISHED BY UTILITY COMPANY PLANS AND MARKED ONSITE USING DETECTION EQUIPMENT AND HAND DUG TRIAL PITS.
3. TRENCHES SHALL BE EXCAVATED AND SUPPORTED AS AND WHEN NECESSARY.
4. TO ENSURE UNIFORM SUPPORT ALONG THE RUN ALL HARD OR SOFT SPOTS, THAT MAY CAUSE DIFFERENTIAL SETTLEMENT, SHALL BE REMOVED AND REPLACED WITH TAMPED SELECTED AS-DUG BACKFILL OR TYPE 1 GRANULAR MATERIAL.
5. THE FINISHED TRENCH BASE SHALL BE TRUE TO LINE AND GRADIENT.
6. TRENCH BASES SHALL BE FREE OF STANDING WATER AND HAVE MINIMAL DISTURBANCE BY FOOT TRAFFIC TO REDUCE DAMAGE TO THE FORMATION.
7. IMMEDIATELY FOLLOWING THE EXCAVATION OF THE TRENCH, THE PIPES SHALL BE LAID AND JOINTED ON THE PIPE BED. PIPES SHALL BE LAID SO THAT EACH ONE IS IN CONTACT WITH THE BED THROUGHOUT THE LENGTH OF ITS BARREL.
8. TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE TO PREVENT INJURY BY FALLS, WHERE TRENCHES ARE LEFT OPEN THEY SHALL BE APPROPRIATELY SECURED BY BARRIERS TO PREVENT ACCESS INTO THE EXCAVATION. BACKFILLING SHALL BE UNDERTAKEN IN SUCH MANNER TO PREVENT UNEVEN LOADING OR DAMAGE TO THE PIPE. FILLING MATERIAL SHALL BE DEPOSITED IN LAYERS NOT EXCEEDING 225 UNCONSOLIDATED THICKNESS, AND THEN COMPACTED TO FORM A STABLE BACKFILL. WHERE THE EXCAVATIONS HAVE BEEN SUPPORTED AND THE SUPPORTS ARE TO BE REMOVED, THESE WHERE PRACTICABLE, SHALL BE WITHDRAWN PROGRESSIVELY AS BACKFILLING PROCEEDS. THE PROGRESSIVE WITHDRAWAL SHALL BE DONE IN SUCH A MANNER AS TO MINIMISE THE DANGER OF COLLAPSE AND ALL VOIDS FORMED BEHIND THE SUPPORTS SHALL BE CAREFULLY FILLED AND COMPACTED TO PREVENT DEPRESSIONS FORMING IN THE FINAL SURFACE.
9. RECOMMENDED TRENCH WIDTHS:  
100mmØ PIPE - 0.45m WIDTH, 150mmØ PIPE - 0.60m WIDTH  
225mmØ PIPE - 0.70m WIDTH, 300mmØ PIPE - 0.80m WIDTH
10. LEVER TYPE CHAIN CUTTERS SHOULD BE USED ON 100 & 150mmØ PIPES WITH 225mmØ CUT BY EITHER A DOUBLE SCREW TYPE CHAIN CUTTER OR MASONRY SAW. CUT ENDS SHALL BE TRIMMED WITH A PIPE TRIMMER / MASONRY STONE.



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NOTES: PIPE BEDDING / TRENCHES

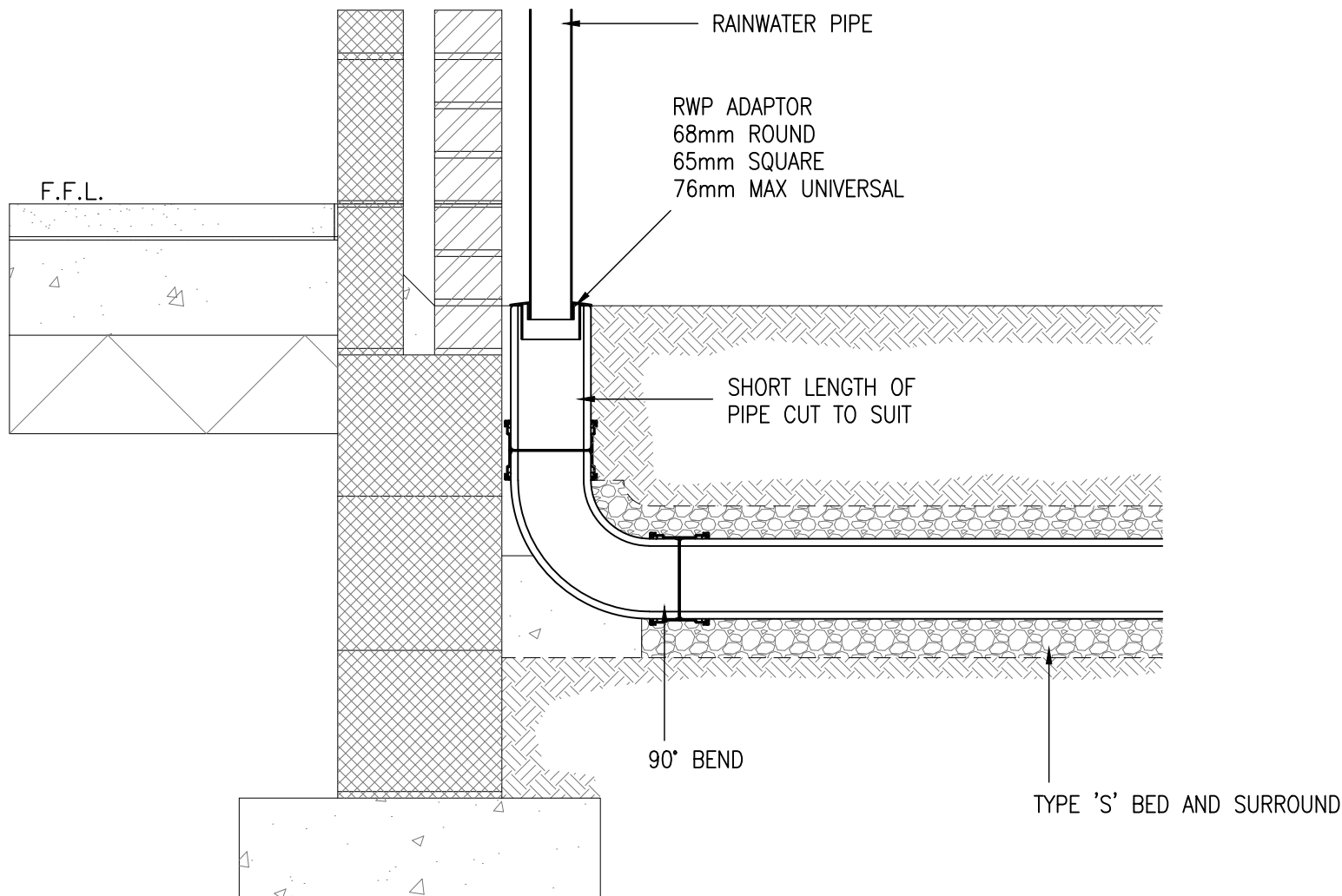
1. THE POSITION OF ALL UNDERGROUND SERVICES SHALL BE ESTABLISHED BY UTILITY COMPANY PLANS AND MARKED ONSITE USING DETECTION EQUIPMENT AND HAND DUG TRIAL PITS.
2. TRENCHES SHALL BE EXCAVATED AND SUPPORTED AS AND WHEN NECESSARY.
3. TO ENSURE UNIFORM SUPPORT ALONG THE RUN ALL HARD OR SOFT SPOTS, THAT MAY CAUSE DIFFERENTIAL SETTLEMENT, SHALL BE REMOVED AND REPLACED WITH TAMPED SELECTED AS-DUG BACKFILL OR TYPE 1 GRANULAR MATERIAL.
4. THE FINISHED TRENCH BASE SHALL BE TRUE TO LINE AND GRADIENT.
5. TRENCH BASES SHALL BE FREE OF STANDING WATER AND HAVE MINIMAL DISTURBANCE BY FOOT TRAFFIC TO REDUCE DAMAGE TO THE FORMATION.
6. TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE TO PREVENT INJURY BY FALLS, WHERE TRENCHES ARE LEFT OPEN THEY SHALL BE APPROPRIATELY SECURED BY BARRIERS TO PREVENT ACCESS INTO THE EXCAVATION.
7. RECOMMENDED TRENCH WIDTHS:  
100mmØ PIPE – 0.45m WIDTH, 150mmØ PIPE – 0.60m WIDTH  
225mmØ PIPE – 0.70m WIDTH, 300mmØ PIPE – 0.80m WIDTH

A	ADDED NOTE – INDICATIVE STRUCTURE AND FOUNDATION SHOWN			GB	JT	05.11.25
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- NOTES: RAINWATER PIPE
- RAINWATER PIPE ADAPTOR SHALL SIT FLUSH WITH THE FINAL GROUND LEVELS.
  - SURFACE WATER PIPES SHALL BE LAID WITH MINIMUM COVER OF 350 mm BELOW FINAL SURFACE LEVEL.



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