

FOUL AND SURFACE WATER GRAVITY PIPEWORK AND MANHOLES		
SILT ACCUMULATION, BLOCKAGE, STRUCTURAL INTEGRITY		
MAINTENANCE SCHEDULE	REQUIREMENT	RECOMMENDED MINIMUM FREQUENCY
REGULAR <i>MAINTENANCE AND INSPECTION</i>	LITTER/DEBRIS REMOVAL	MONTHLY (OR AS REQUIRED)
	EXCESS SILTS TO SILT TRAPS TO BE REMOVED	MONTHLY (OR AS REQUIRED)
OCCASIONAL <i>MAINTENANCE AND INSPECTION</i>	PIPE CLEANING AND INSPECTION FOR STRUCTURAL DEFECTS AND ROOT INGRESS	AS REQUIRED
MONITORING <i>TO BE UNDERTAKEN MORE REGULARLY IN FIRST YEAR OF OPERATION AND ADJUSTED ACCORDINGLY</i>	INSPECTION OF MANHOLES/CHAMBERS TO IDENTIFY EVIDENCE OF SEDIMENTATION ACCUMULATION	QUARTERLY PER ANNUM

OIL SEPARATORS		
HYDROCARBON AND SILT ACCUMULATION, BLOCKAGE, STRUCTURAL INTEGRITY		
MAINTENANCE SCHEDULE	REQUIREMENT	RECOMMENDED MINIMUM FREQUENCY
REGULAR <i>MAINTENANCE AND INSPECTION</i>	REMOVAL OF EXCESS SILTS	MONTHLY (OR AS REQUIRED)
	CHECK ALARMS AND BEACONS FUNCTION CORRECTLY	AS REQUIRED BY MANUFACTURER - I.E. MONTHLY
OCCASIONAL <i>MAINTENANCE AND INSPECTION</i>	REMOVAL AND DISPOSAL OF OIL OR HYDROCARBONS USING SAFE STANDARD PRACTICES	AS REQUIRED TO SUIT SITE OPERATION
	REPLACEMENT OF FILTERS AND ANCILLARY EQUIPMENT	AS REQUIRED BY MANUFACTURER
MONITORING <i>TO BE UNDERTAKEN MORE REGULARLY IN FIRST YEAR OF OPERATION AND ADJUSTED ACCORDINGLY</i>	INSPECT UPSTREAM AND DOWNSTREAM MANHOLES AND SENSORS FOR EVIDENCE OF HYDROCARBON OR SILT ACCUMULATION AND INTEGRITY OF SYSTEM	QUARTERLY PER ANNUM

PUBLIC SEWERS

PUBLIC SEWER MAPS INDICATE THERE IS A SHORT SECTION OF PUBLIC SEWER LOCATED ON THE RAISED PLAYGROUND TO THE EAST OF THE LIBRARY AND LEISURE CENTRE.

CONSULTATION WITH UNITED UTILITIES HAS CONFIRMED THIS DRAIN IS IN FACT PRIVATE AND THEREFORE THE RESPONSIBILITY FOR MAINTENANCE LIES WITH THE LAND OWNER AND NOT UNITED UTILITIES

THERE ARE NO KNOWN PUBLIC SEWERS WITHIN THE SITE BOUNDARY

SURFACE WATER DISCHARGE

THE STORM WATER DISCHARGE FROM THE ABRAHAM MOSS CAMPUS IS UNDERSTOOD TO CONNECT INTO A UNITED UTILITIES COMBINED PUBLIC SEWER (675 x 900mm BRICK) LOCATED WITHIN WOODLAND'S ROAD TO THE SOUTH EAST OF THE DEVELOPMENT

FOUL WATER DISCHARGE

THE FOUL WATER DISCHARGE FROM THE ABRAHAM MOSS CAMPUS IS UNDERSTOOD TO PASS BENEATH THE METROLINK LINE AND CONNECT INTO A UNITED UTILITIES COMBINED PUBLIC SEWER LOCATED WITHIN WOODLAND'S ROAD TO THE SOUTH EAST OF THE DEVELOPMENT

SWIMMING POOL DISCHARGE - TRADE EFFLUENT CONSENT

THE SWIMMING POOL BACKWASH AND DRAIN DOWN IS PROPOSED TO CONNECT INTO THE EXISTING SITE WIDE COMBINED DRAINAGE SYSTEM BEFORE DISCHARGING INTO THE UNITED UTILITIES COMBINED PUBLIC SEWER WITHIN WOODLAND'S ROAD.

ANY DISCHARGE FROM A SWIMMING POOL IS SUBJECT TO TRADE EFFLUENT CONSENT AND MUST BE APPLIED FOR FROM THE SEWERAGE COMPANY, **PRIOR TO DISCHARGING POOL WATER INTO THE PUBLIC SEWER NETWORK.** THIS MUST BE UNDERTAKEN BY THE END USER

CHANNEL DRAINS AND GULLIES		
SILT ACCUMULATION, BLOCKAGE, STRUCTURAL INTEGRITY		
MAINTENANCE SCHEDULE	REQUIREMENT	RECOMMENDED MINIMUM FREQUENCY
REGULAR <i>MAINTENANCE AND INSPECTION</i>	LITTER/DEBRIS REMOVAL	MONTHLY (OR AS REQUIRED)
	EXCESS SILTS TO SILT TRAPS AND GULLY POTS TO BE REMOVED	MONTHLY (OR AS REQUIRED)
OCCASIONAL <i>MAINTENANCE AND INSPECTION</i>	JETTING AND REMOVAL OF SILT TRAPS AND SEDIMENT FROM CHANNELS	HALF YEARLY (OR AS REQUIRED)
MONITORING <i>TO BE UNDERTAKEN MORE REGULARLY IN FIRST YEAR OF OPERATION AND ADJUSTED ACCORDINGLY</i>	INSPECTION OF GRATING AND LOCK BOLTS FOR SECURITY AND TIGHTNESS OF FITTINGS	MONTHLY (OR AS REQUIRED)

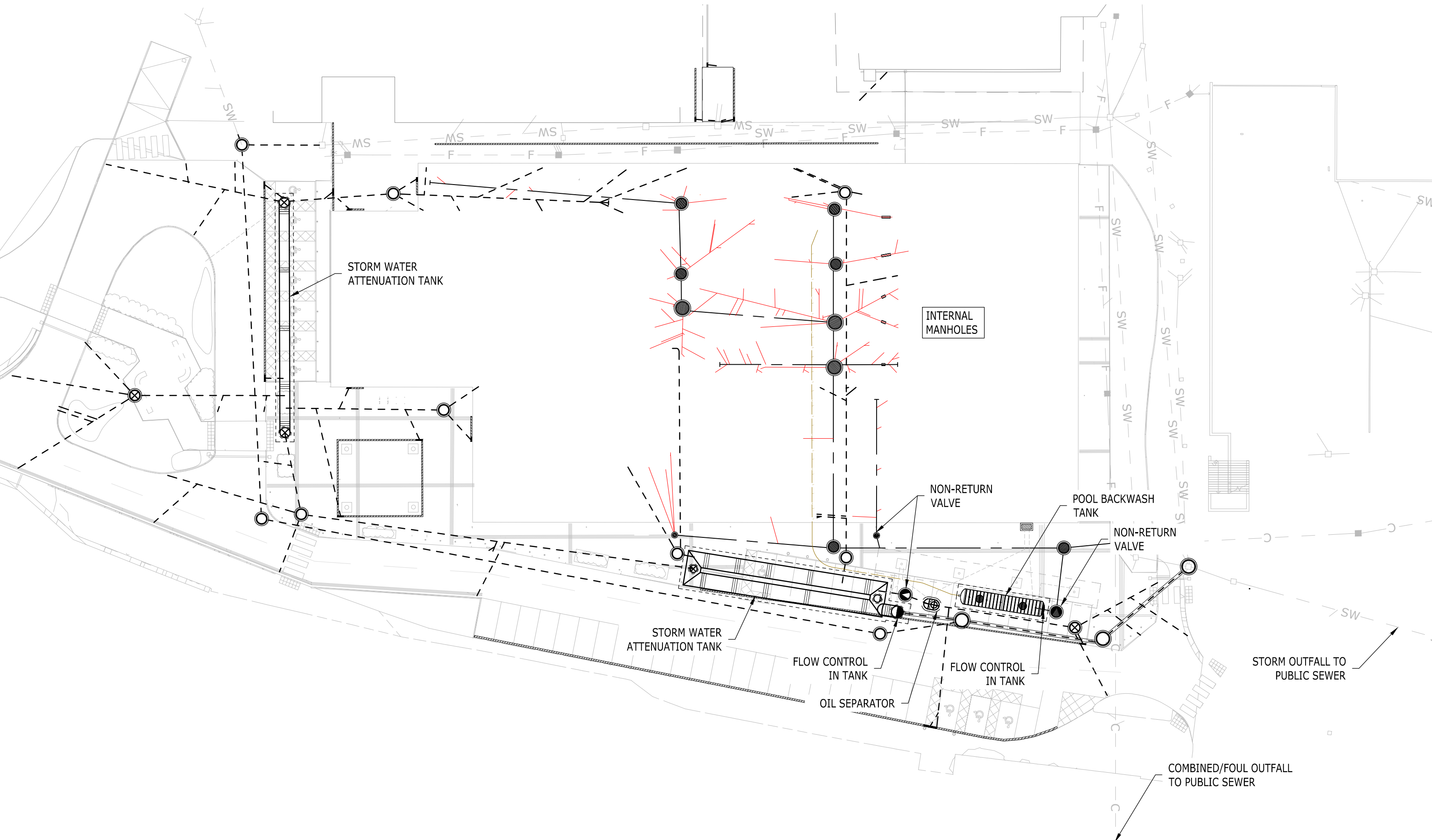
STORM WATER ATTENUATION TANKS - LARGE DIAMETER PIPES		
SILT ACCUMULATION, BLOCKAGE, STRUCTURAL INTEGRITY		
MAINTENANCE SCHEDULE	REQUIREMENT	RECOMMENDED MINIMUM FREQUENCY
REGULAR <i>MAINTENANCE AND INSPECTION</i>	REMOVAL OF EXCESS SILTS FROM UPSTREAM SILT TRAPS/MANHOLES	MONTHLY OR AFTER LARGE STORMS
	REMOVAL OF DEBRIS FROM UPSTREAM CATCHMENTS THAT MAY IMPEDE TANK PERFORMANCE	MONTHLY AND AS REQUIRED
OCCASIONAL <i>MAINTENANCE AND INSPECTION</i>	REMOVAL OF EXCESS SILTS TO ATTENUATION TANK - I.E. JETTING/FLUSHING OF TANK	QUARTERLY PER ANNUM
MONITORING <i>TO BE UNDERTAKEN MORE REGULARLY IN FIRST YEAR OF OPERATION AND ADJUSTED ACCORDINGLY</i>	INSPECT UPSTREAM AND DOWNSTREAM MANHOLES FOR EVIDENCE OF HYDROCARBON OR SILT ACCUMULATION AND INTEGRITY OF SYSTEM. INCLUDING INLET/OUTLET PIPES	MONTHLY OR AFTER LARGE STORMS
	INSPECT INTERNAL FEATURES OF TANK MANUALLY OR USING REMOTE TECHNOLOGIES FOR EVIDENCE OF SILT ACCUMULATION AND INTEGRITY OF SYSTEM	HALF YEARLY

D1   ACCESS TO ATTENUATION FOR MAINTENANCE

FLOW CONTROLS AND VALVES - STORM AND POOL BACKWASH		
SILT ACCUMULATION, BLOCKAGE, STRUCTURAL INTEGRITY		
MAINTENANCE SCHEDULE	REQUIREMENT	RECOMMENDED MINIMUM FREQUENCY
REGULAR <i>MAINTENANCE AND INSPECTION</i>	REMOVAL OF EXCESS SILTS	MONTHLY (OR AS REQUIRED)
	CHECK BY-PASS FUNCTIONS CORRECTLY	AS REQUIRED BY MANUFACTURER - I.E. MONTHLY
OCCASIONAL <i>MAINTENANCE AND INSPECTION</i>	REMOVAL AND DISPOSAL OF OIL OR HYDROCARBONS USING SAFE STANDARD PRACTICES	AS REQUIRED TO SUIT SITE OPERATION
	REPLACEMENT OF FILTERS AND ANCILLARY EQUIPMENT	AS REQUIRED BY MANUFACTURER
MONITORING <i>TO BE UNDERTAKEN MORE REGULARLY IN FIRST YEAR OF OPERATION AND ADJUSTED ACCORDINGLY</i>	INSPECT UPSTREAM AND DOWNSTREAM MANHOLES AND SENSORS FOR EVIDENCE OF HYDROCARBON OR SILT ACCUMULATION AND INTEGRITY OF SYSTEM	QUARTERLY PER ANNUM

FOUL WATER ATTENUATION TANKS - POOL BACKWASH		
SILT ACCUMULATION, BLOCKAGE, STRUCTURAL INTEGRITY		
MAINTENANCE SCHEDULE	REQUIREMENT	RECOMMENDED MINIMUM FREQUENCY
REGULAR <i>MAINTENANCE AND INSPECTION</i>	REMOVAL OF EXCESS SILTS	MONTHLY (OR AS REQUIRED)
	CHECK ALARMS AND BEACONS FUNCTION CORRECTLY	AS REQUIRED BY MANUFACTURER - I.E. MONTHLY
OCCASIONAL <i>MAINTENANCE AND INSPECTION</i>	FLUSH TANK AND CLEAN UPSTREAM DRAINS	HALF YEARLY (OR AS REQUIRED BY MANUFACTURER)
MONITORING <i>TO BE UNDERTAKEN MORE REGULARLY IN FIRST YEAR OF OPERATION AND ADJUSTED ACCORDINGLY</i>	INSPECT UPSTREAM AND DOWNSTREAM MANHOLES FOR EVIDENCE OF SILT ACCUMULATION AND STRUCTURAL INTEGRITY OF SYSTEM	QUARTERLY PER ANNUM
	INSPECT INTERNAL FEATURES OF TANK MANUALLY OR USING REMOTE TECHNOLOGIES FOR EVIDENCE OF SILT ACCUMULATION AND STRUCTURAL INTEGRITY OF SYSTEM	ANNUALLY

D2   MAINTENANCE OF POOL BACKWASH TANK



PLAN: PRIMARY DRAINAGE ASSETS
SCALE @ A1: 1:400

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 - THIS MAINTENANCE SCHEDULE HAS BEEN PREPARED USING GUIDANCE PROVIDED IN CIRIA C625, CIRIA C626, CIRIA C753 AND IN CONJUNCTION WITH MANUFACTURER'S RECOMMENDATIONS
 - ANY PARTIES INVOLVED WITH THE DISPOSAL OF ANY WASTE MATERIALS FROM THE UNDERGROUND DRAINAGE SYSTEM SHOULD HOLD APPROPRIATE MANAGEMENT LICENCES
 - FINAL O&M MANUALS TO BE COMPILED BY CONTRACTOR TO SUIT AS-INSTALLED PRODUCTS
 - ALL DRAINAGE ON SITE WILL BE CLASSIFIED AS 'PRIVATE' AND THEREFORE MAINTENANCE WILL BE THE RESPONSIBILITY OF THE END USER

THESE NOTES ARE BASED ON THE USE OF EXPERIENCED AND COMPETENT CONTRACTORS CARRYING OUT THE WORK USING AN APPROVED SAFE METHOD OF WORKING

KEY TO HEALTH AND SAFETY SYMBOLS

-  INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION
-  INDICATES A RESIDUAL RISK FOR INFORMATION
-  INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION
-  INDICATES A RESIDUAL RISK AS A WARNING

C01	CONSTRUCTION ISSUE	11/08 2021	SG GS	LS
Rev	Description	Date	By Chk	App

CONSTRUCTION

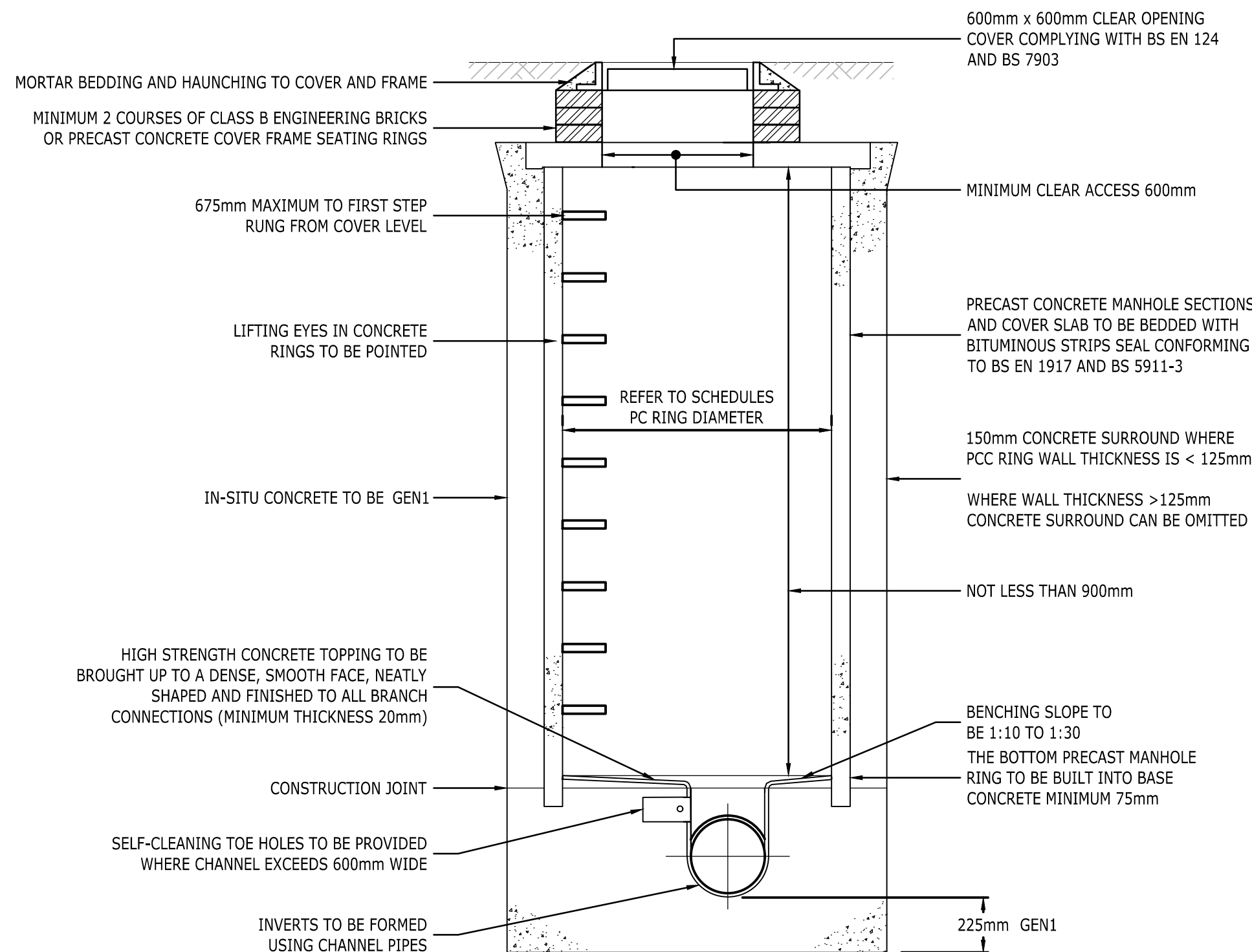
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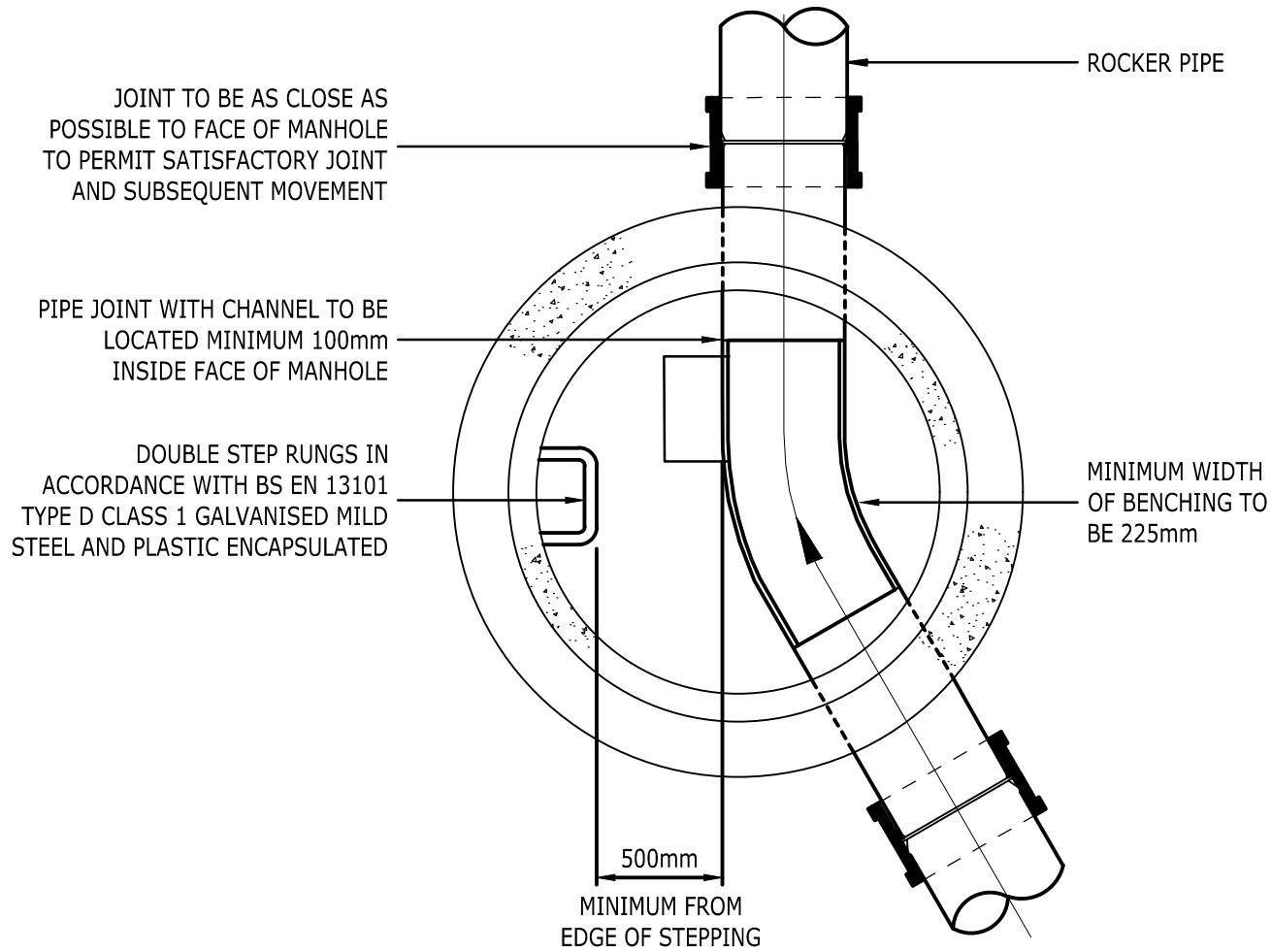
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PROPOSED DRAINAGE MAINTENANCE SCHEDULES

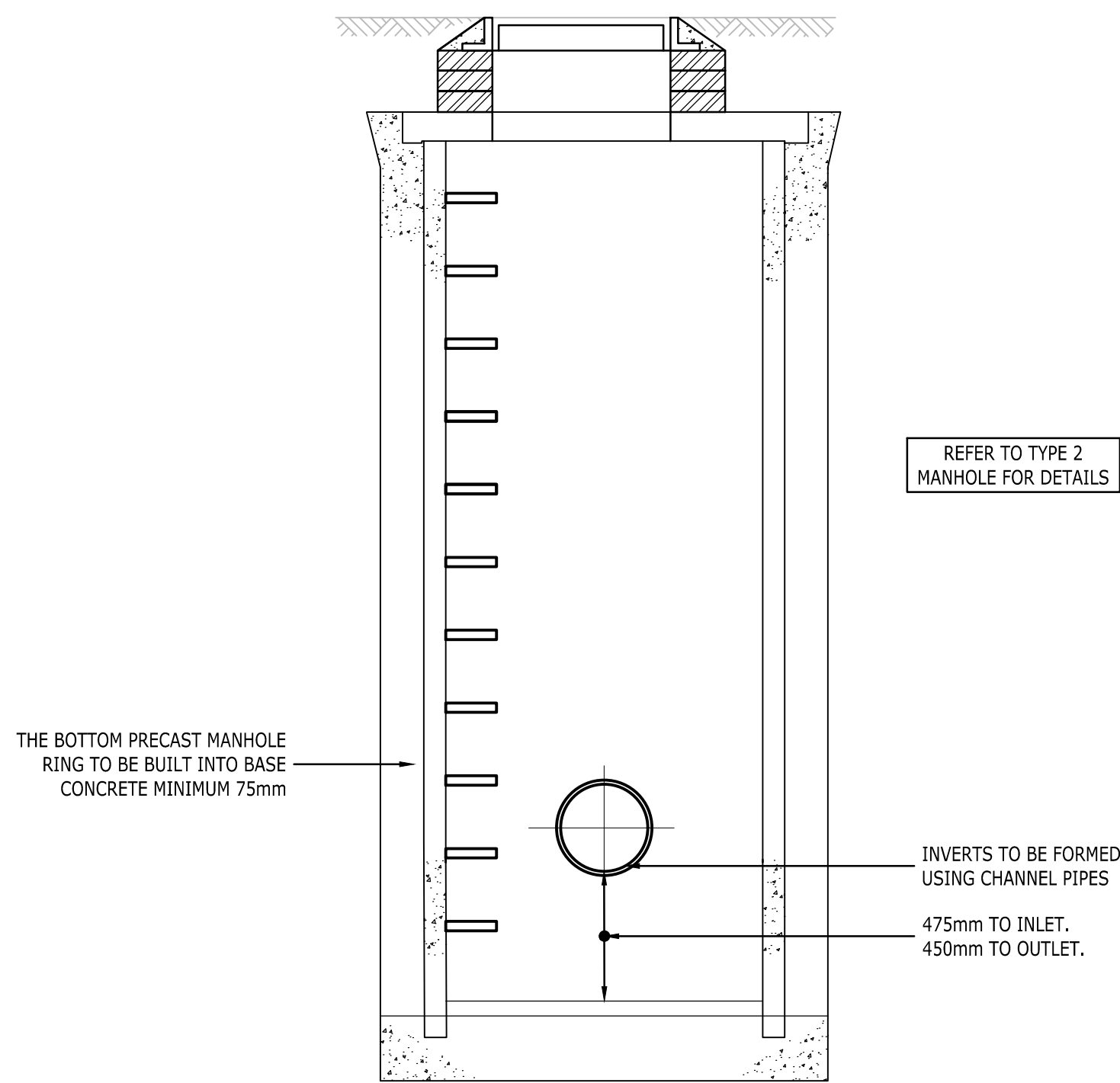
Project No:	Scale (@A1):	Drawn:	Date:
1620005164	NTS	SG	JULY 21
Drawing No:	Rev:		
LP44107-RAM-B01-XX-DR-D-51251	C01		



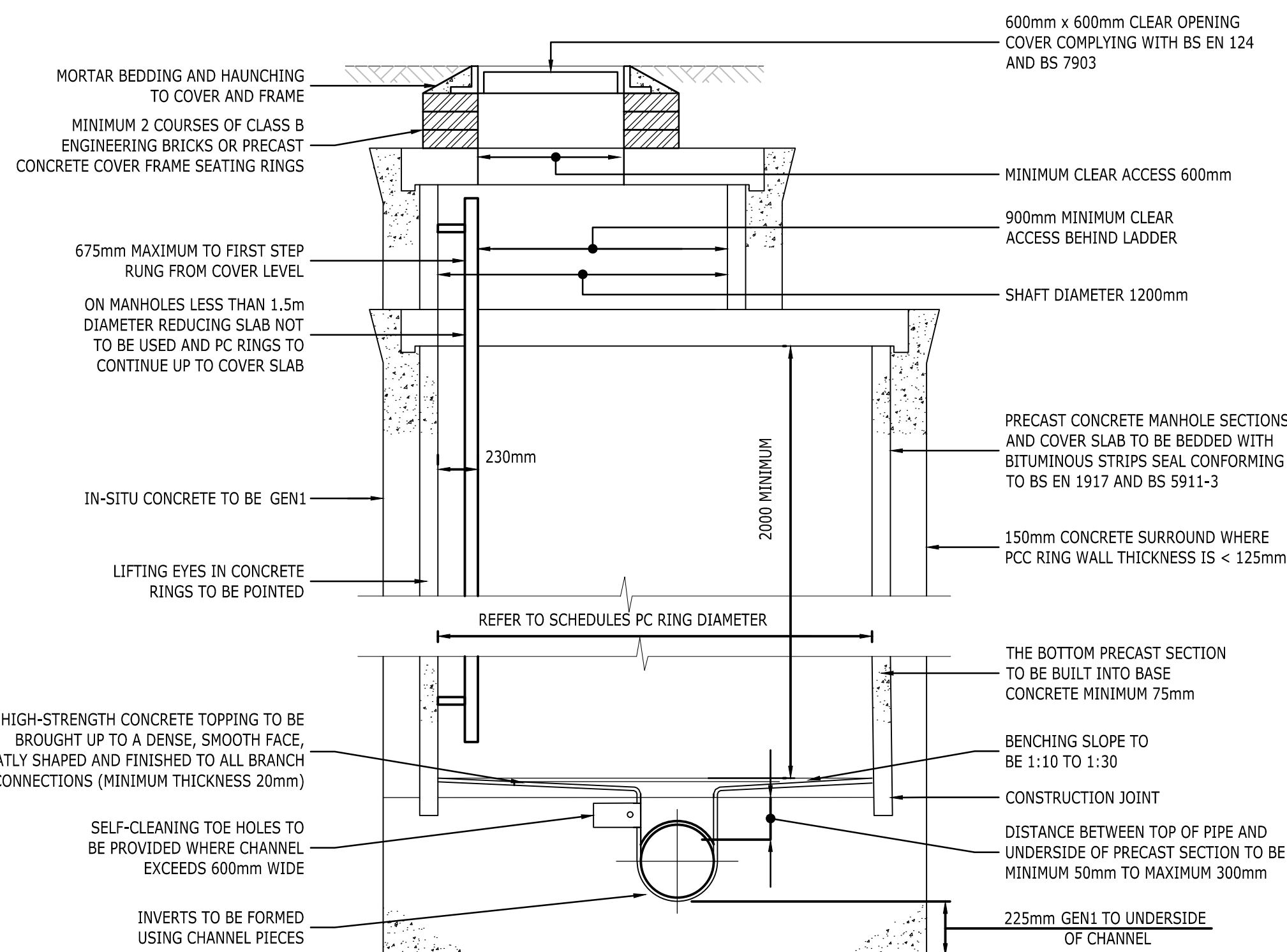
TYPICAL MANHOLE DETAIL - TYPE 2
MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3.0m
SCALE 1:20



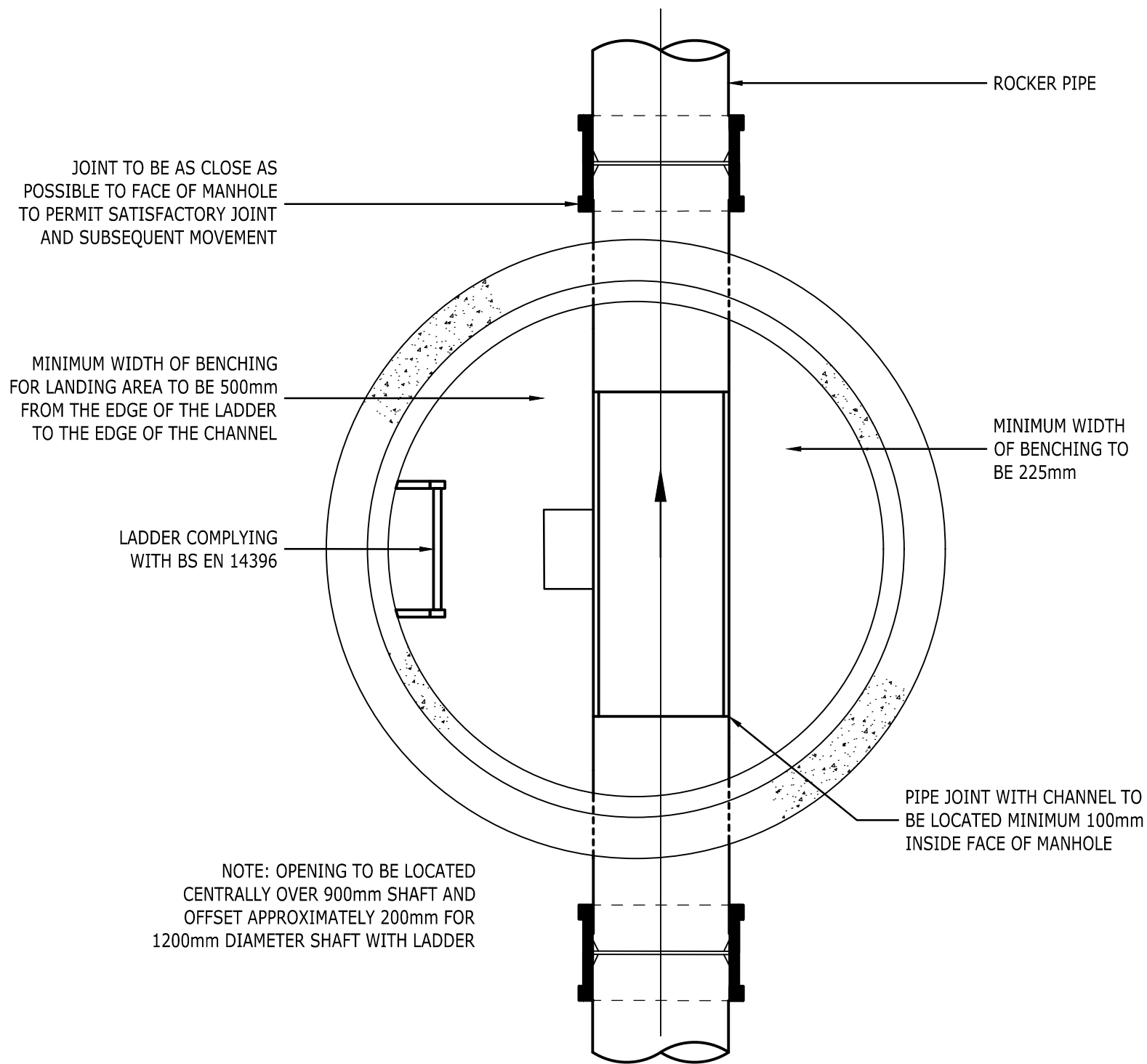
TYPICAL MANHOLE DETAIL - TYPE 2
PLAN VIEW
SCALE 1:20



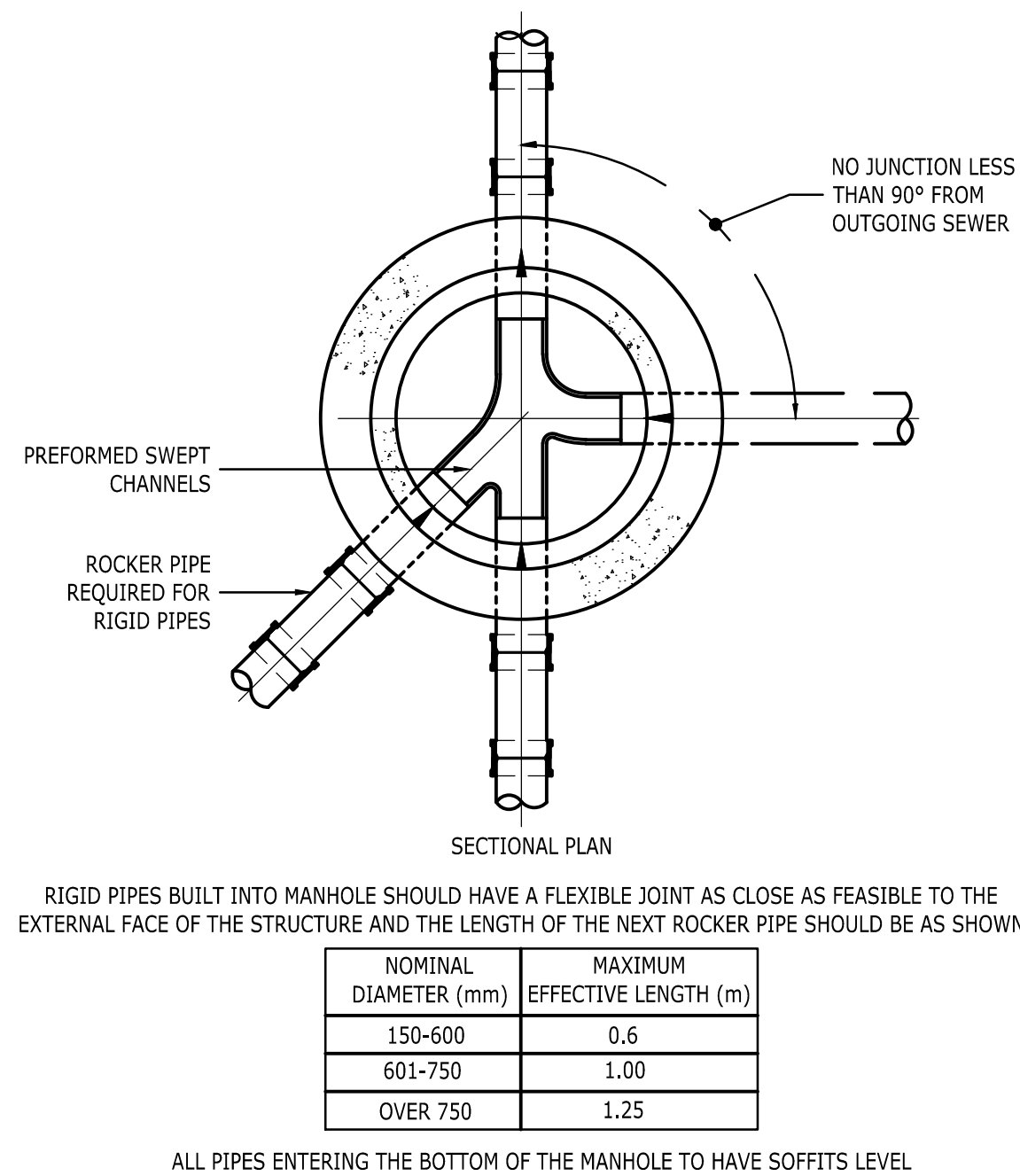
TYPICAL CATCHPIT DETAIL - TYPE 2
MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3.0m
SCALE 1:20



TYPICAL MANHOLE DETAIL - TYPE 1A
DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3m TO 6m
SCALE 1:20



TYPICAL MANHOLE DETAIL - TYPE 1A
PLAN VIEW
SCALE 1:20



TYPICAL ARRANGEMENT OF PIPE JUNCTIONS
WITHIN MANHOLES
SCALE 1:20

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C01	CONSTRUCTION ISSUE	11/08 2021	SG GS	LS
P02	STAGE 5 PR1 ISSUE	01/06 2021	SG GS	LS
P01	PRELIMINARY	15/11 2019	CO GS	LS
Rev	Description	Date	By Chk	App

CONSTRUCTION

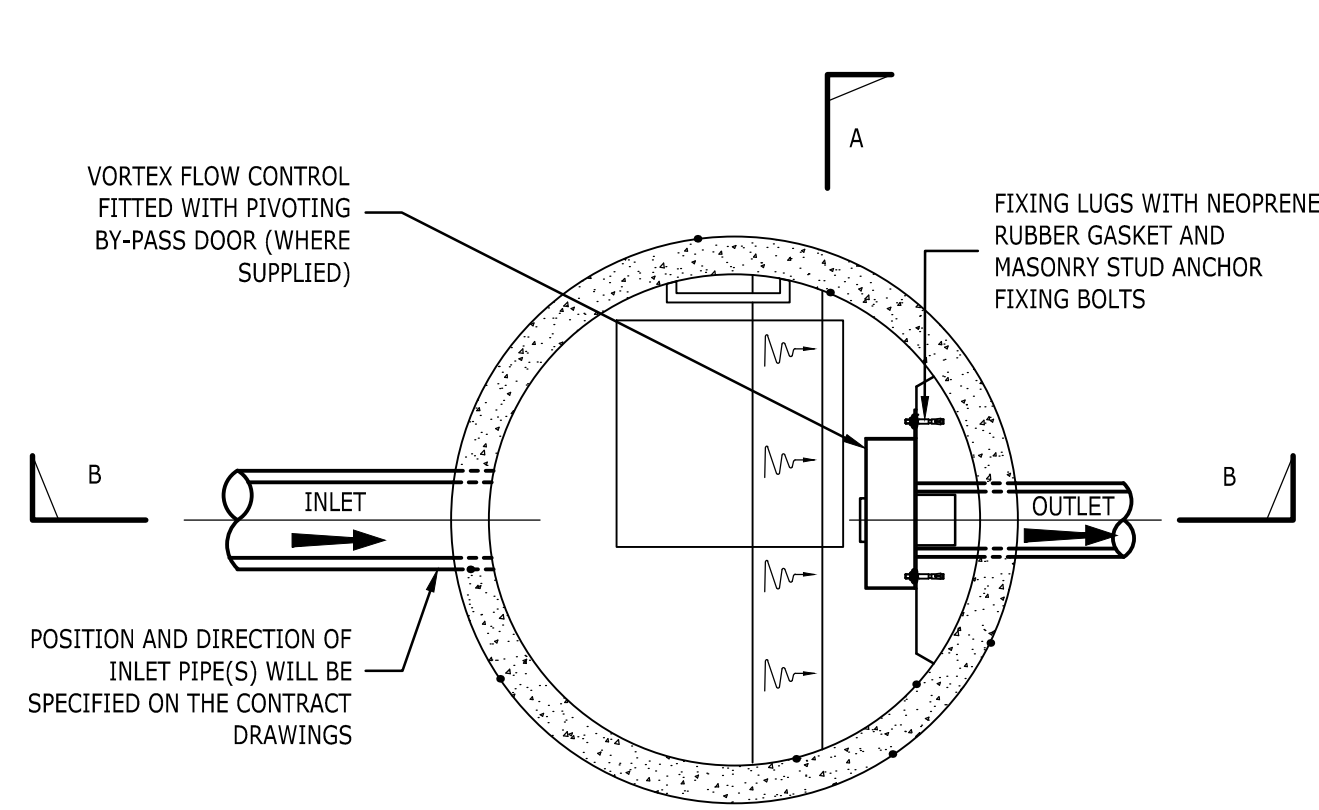
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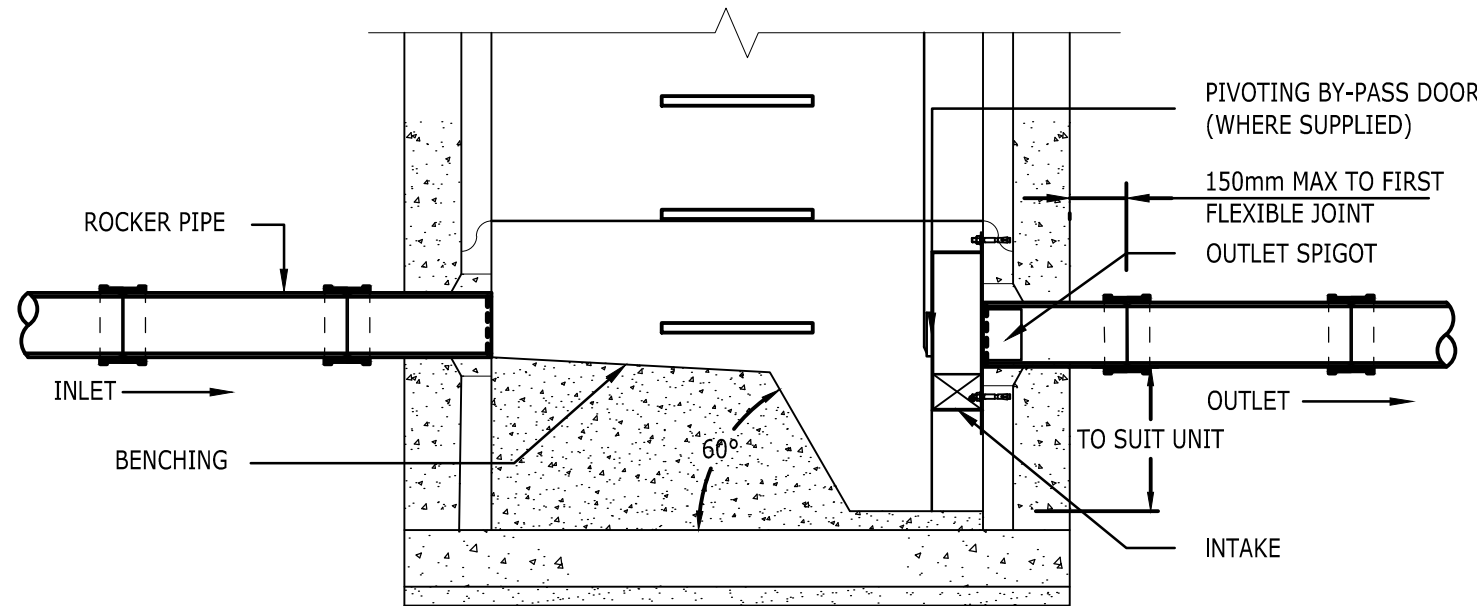
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STANDARD DETAILS
SHEET 1

Project No: 1620005164	Scale (@A1): AS SHOWN	Drawn: CO	Date: JUN 19
Drawing No: LP44107-RAM-B01-XX-DR-D-51400	Rev: C02		



SECTION A-A



SECTION B-B

TYPICAL VORTEX FLOW CONTROL UNIT

NOT TO SCALE

PIPE BEDDING NOTES:

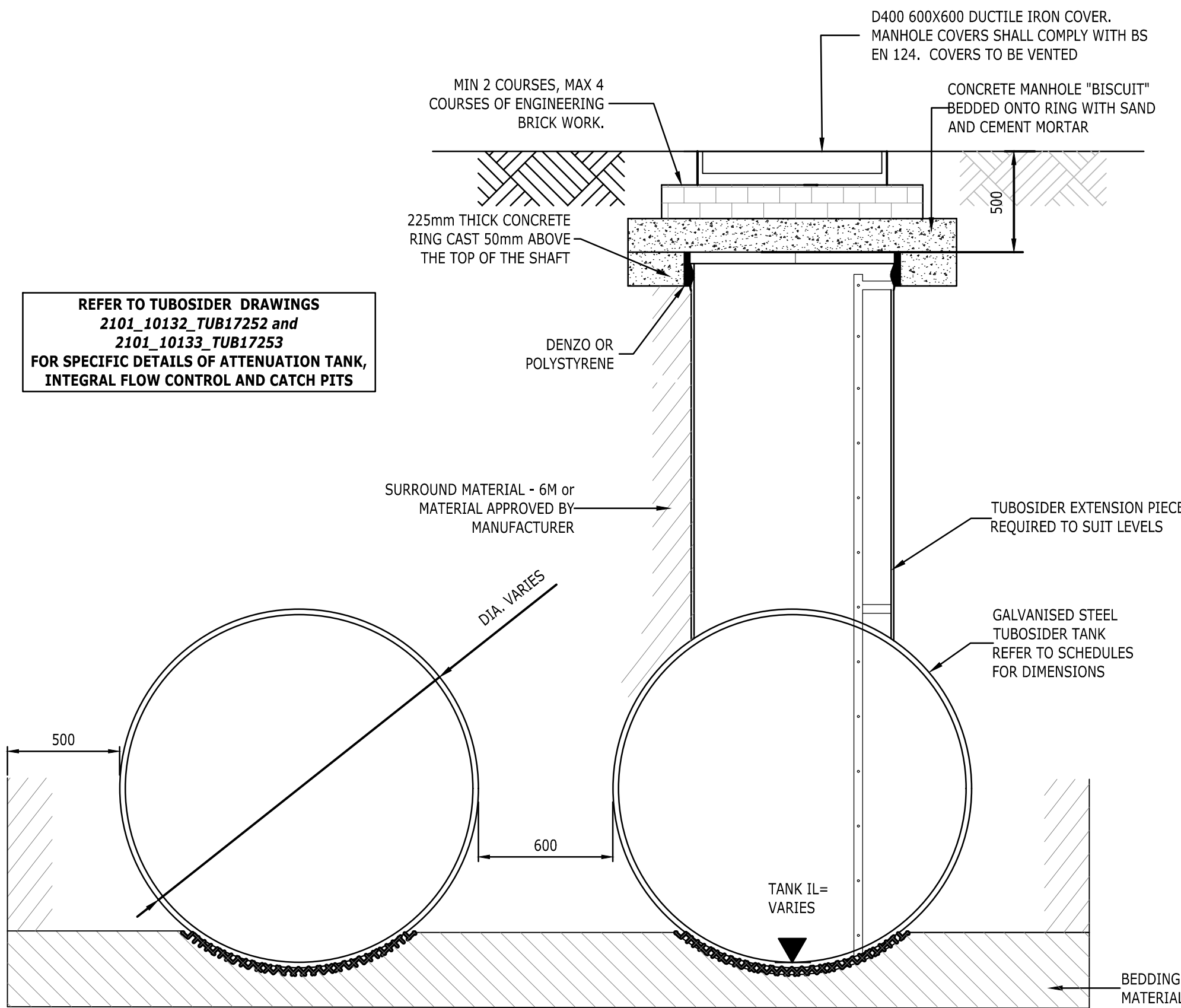
- ALL MATERIALS SHALL COMPLY WITH THE SPECIFICATION
- TYPE A BEDDING MATERIAL TO BE:-

NOMINAL BORE OF PIPE (mm)	SIZE (mm) SINGLE SIZED	GRADED
100-150	10-15	-
225-300	10, 14 OR 20	14 TO 5 OR 20 TO 5
375-500	14 OR 20	14 TO 5 OR 20 TO 5
OVER 500	10, 20 OR 40	14 TO 5, 20 TO 5, 40 TO 5

- TRENCH WIDTHS TO BE:-

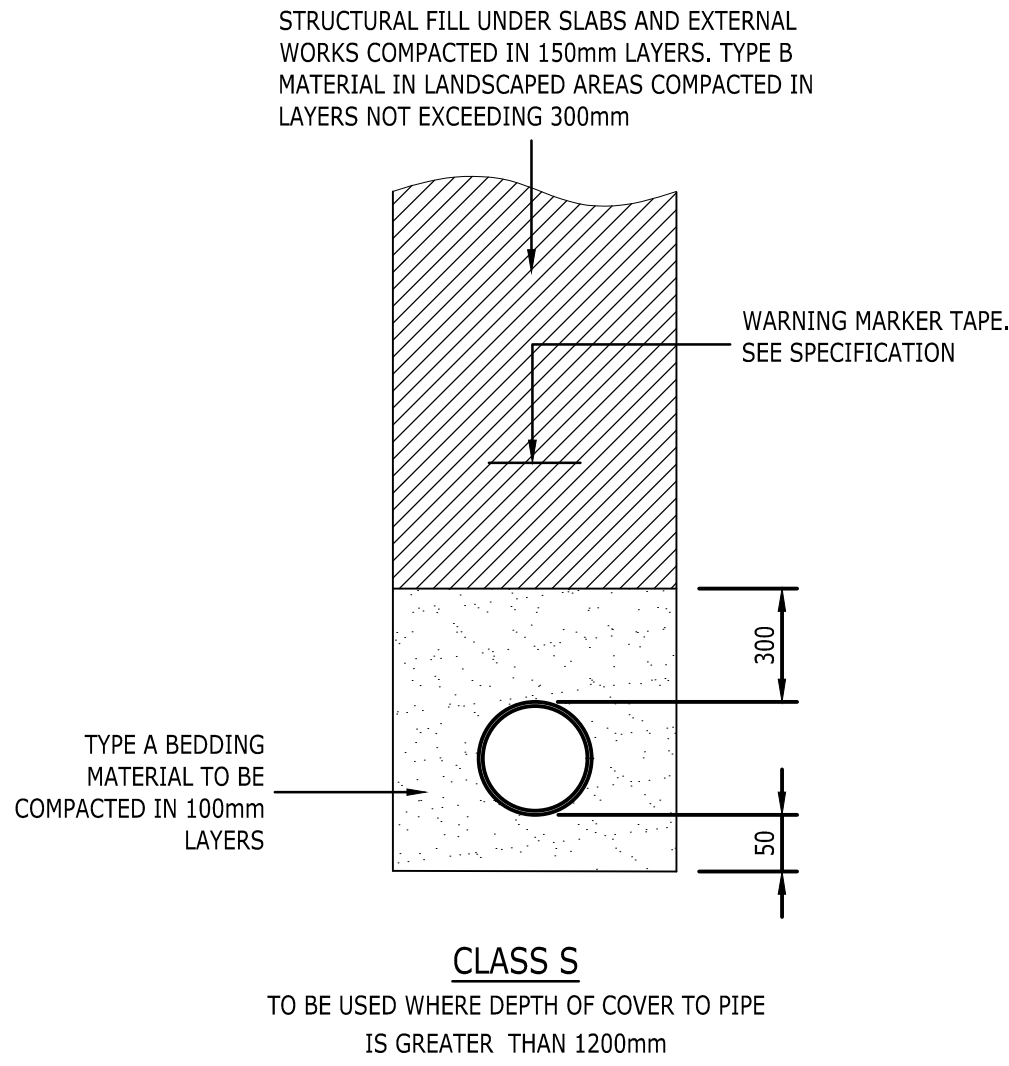
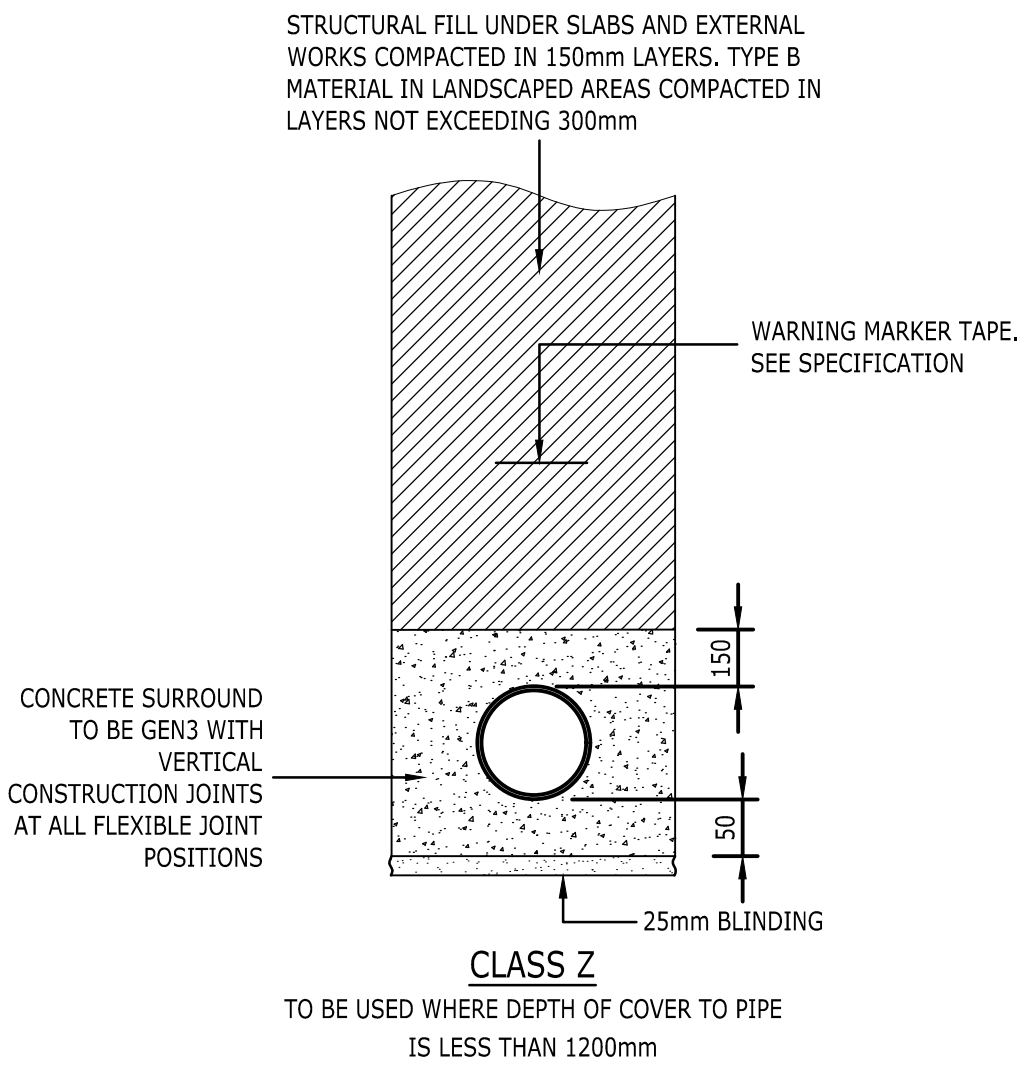
NOMINAL BORE OF PIPE (mm)	NOMINAL TRENCH WIDTH (METRES)
100	0.55
150	0.60
225	0.70
300	0.75
375	1.05
450	1.15
600	1.20

- UNLESS AGREED OTHERWISE STRUCTURAL FILL UP TO FORMATION TO BE MOT TYPE 1
- TYPE B FILL SHALL BE SELECTED OF READILY COMPACTABLE MATERIAL, FREE FROM TREE ROOTS, VEGETABLE MATTER, BUILDING RUBBISH, FROZEN SOIL, CLAY LUMPS OR OTHER MATTER WHICH WOULD BE RETAINED ON A 75mm SIEVE AND STONES WHICH WOULD BE RETAINED ON A 25mm SIEVE



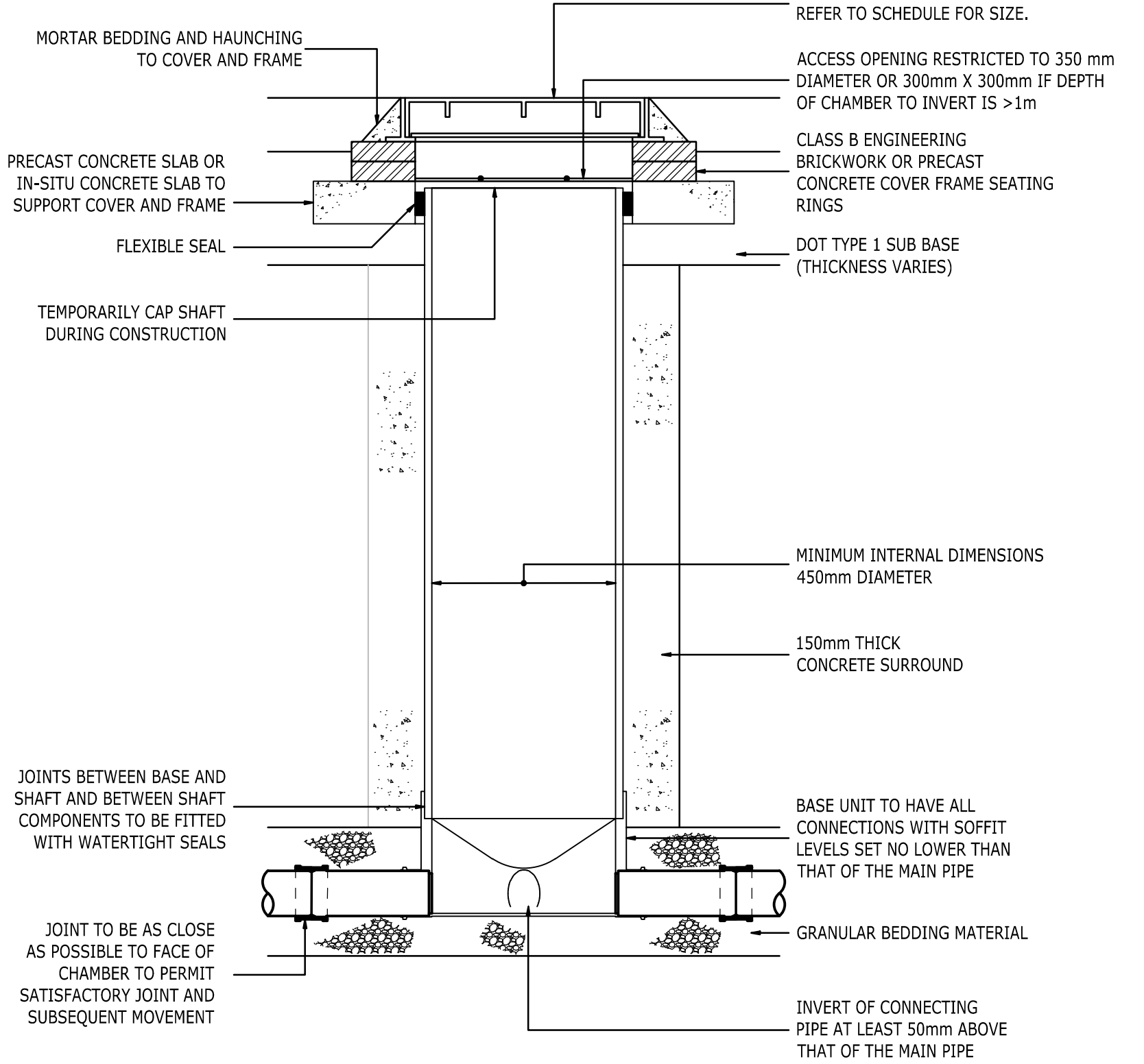
TYPICAL TUBOSIDER ATTENUATION SECTION

SCALE 1:20



PIPE BEDDING DETAILS

SCALE 1:20

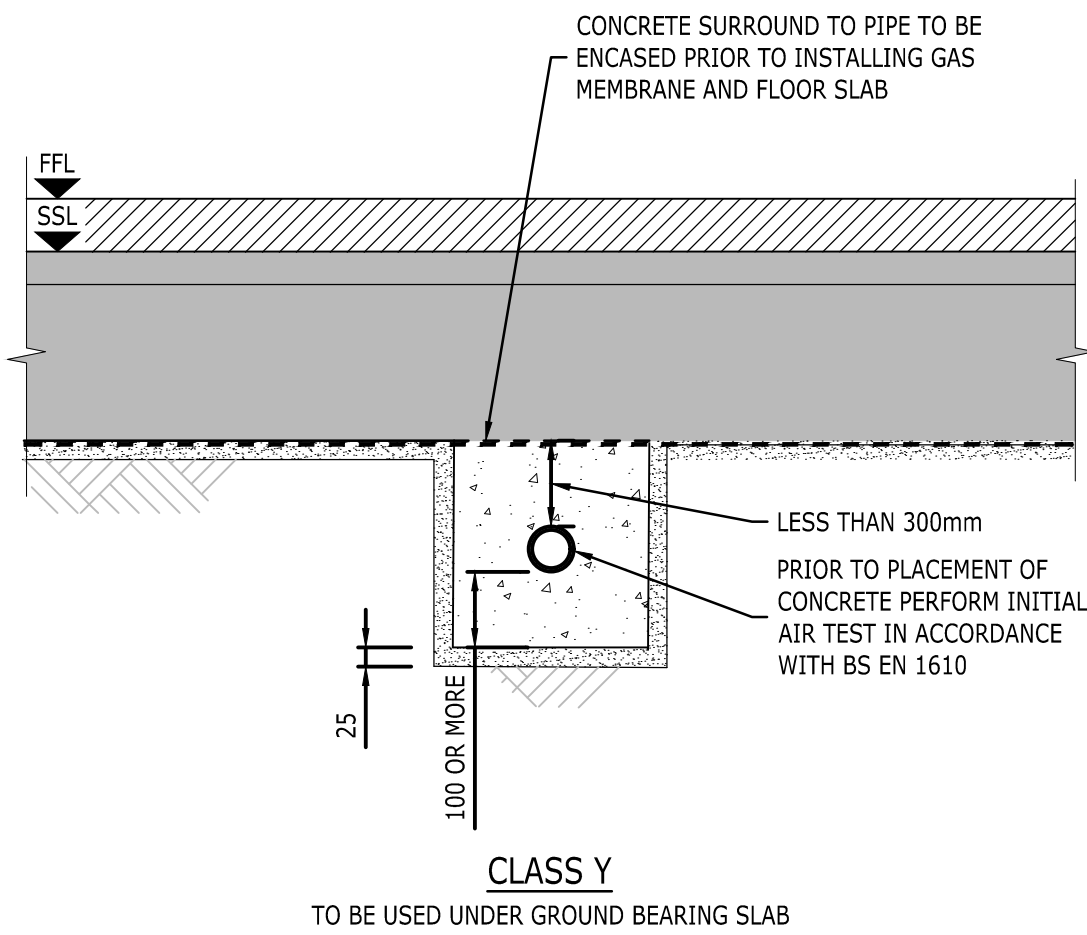


TYPICAL INSPECTION CHAMBER DETAIL - TYPE 3

MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE IN AREAS SUBJECT TO VEHICLE LOADING 3m, NON-ENTRY

PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL

SCALE 1:20



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C02	CONSTRUCTION ISSUE Previous revision history added	15/11 2021	SG GS	LS
C01	CONSTRUCTION ISSUE	11/08 2021	SG GS	LS
P02	STAGE 5 PR1 ISSUE	01/06 2021	SG GS	LS
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Rev	Description	Date	By Chk	App

CONSTRUCTION

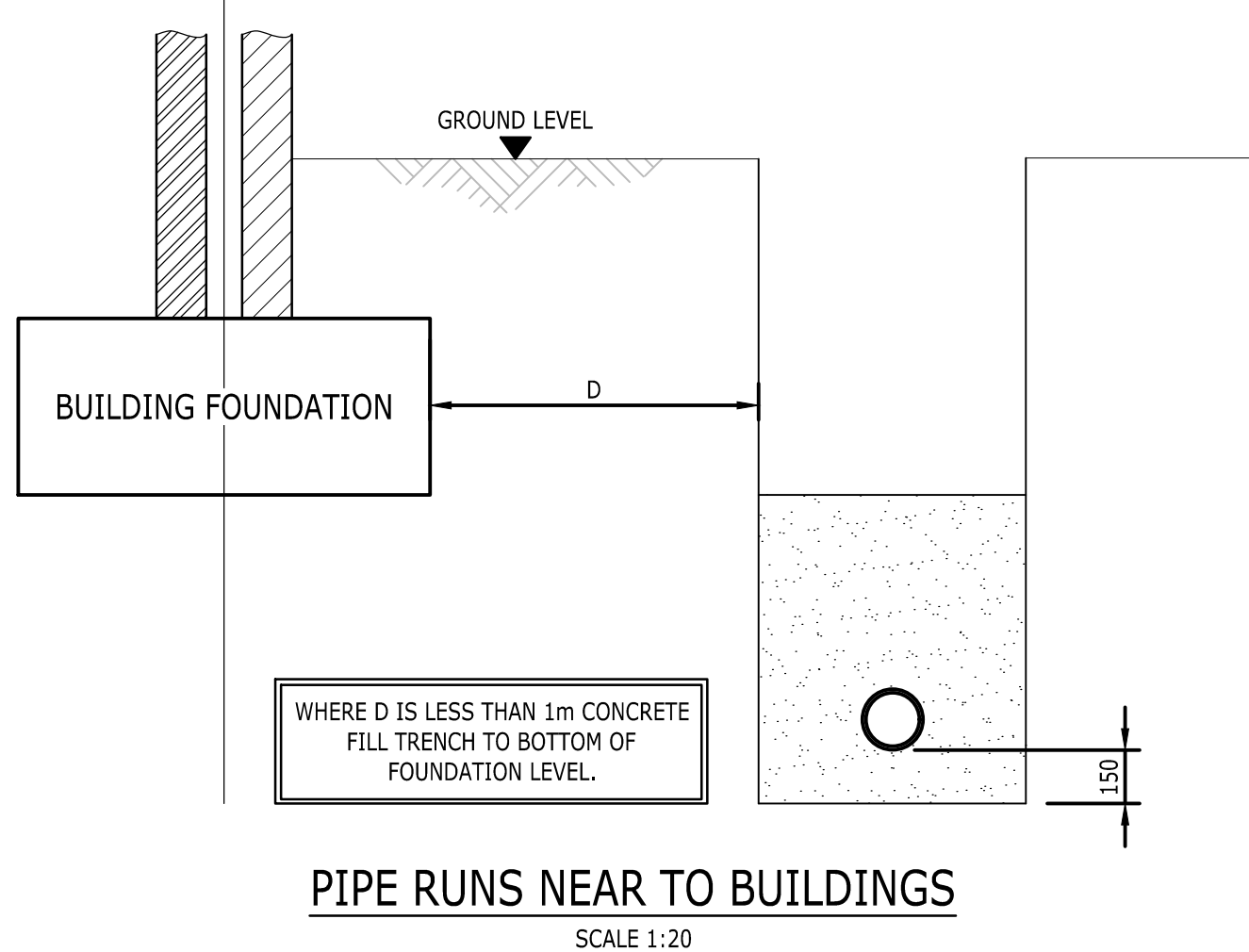
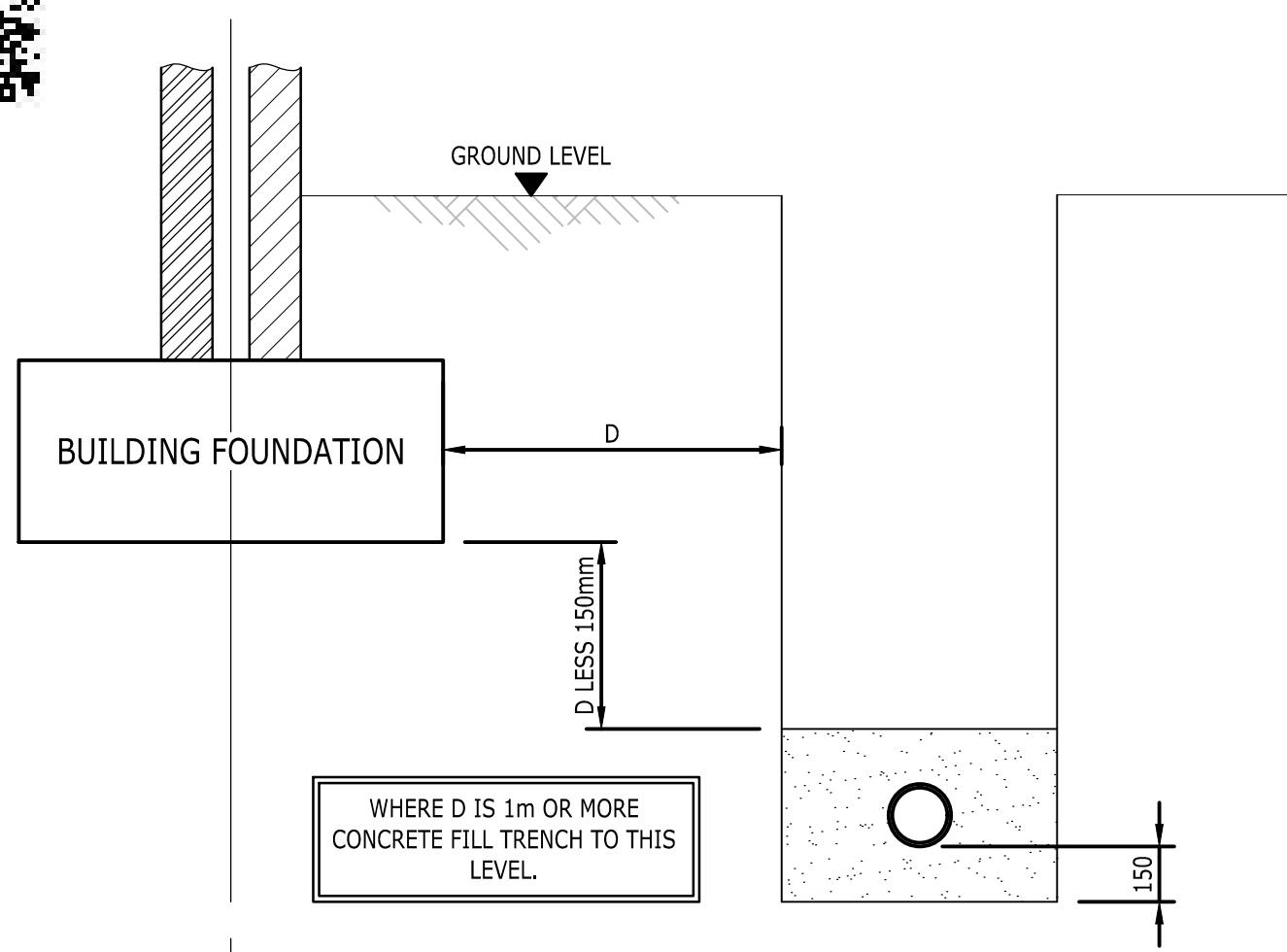
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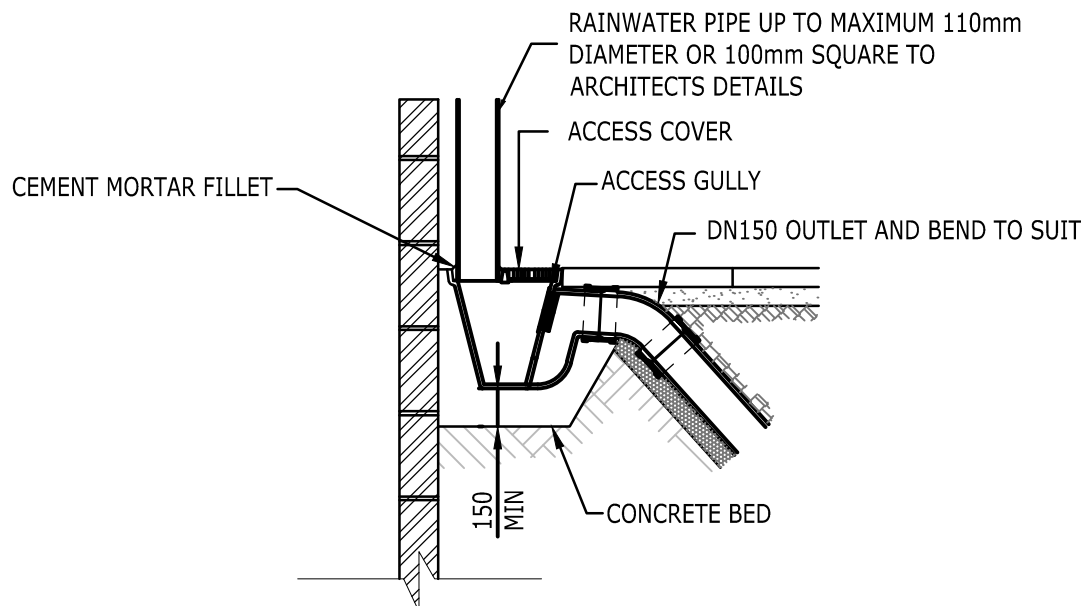
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STANDARD DETAILS
SHEET 2

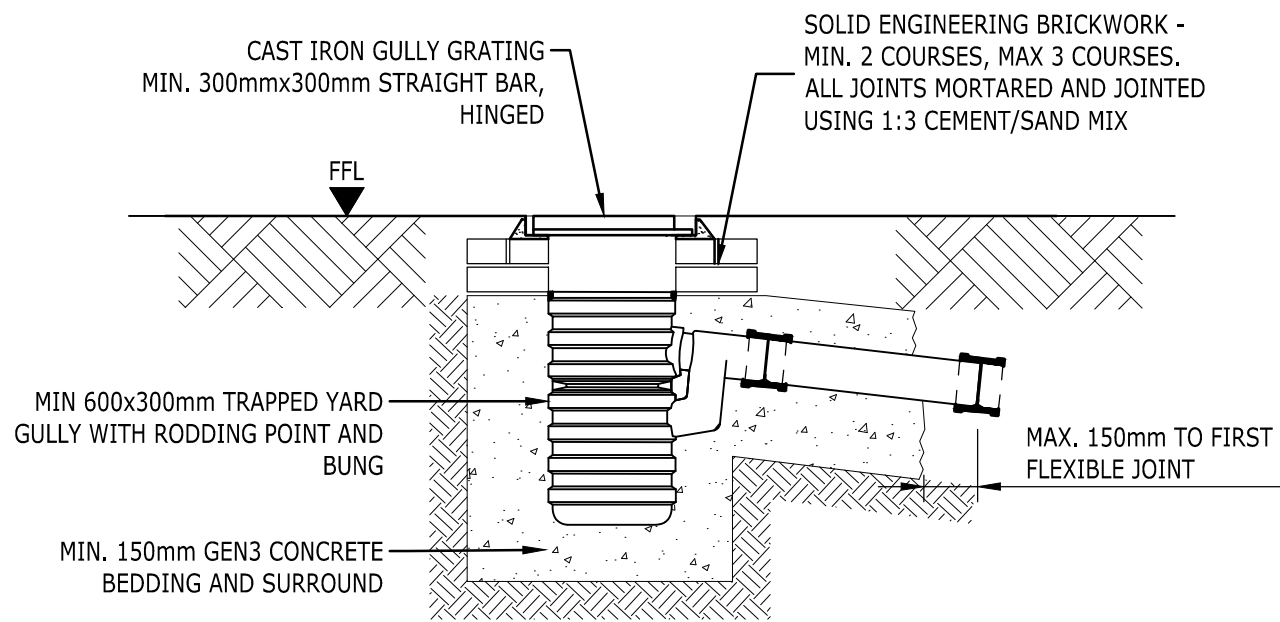
Project No: 1620005164	Scale (@A1): AS SHOWN	Drawn: CO	Date: JUN 19
Drawing No: LP44107-RAM-B01-XX-DR-D-51401	Rev: C02		



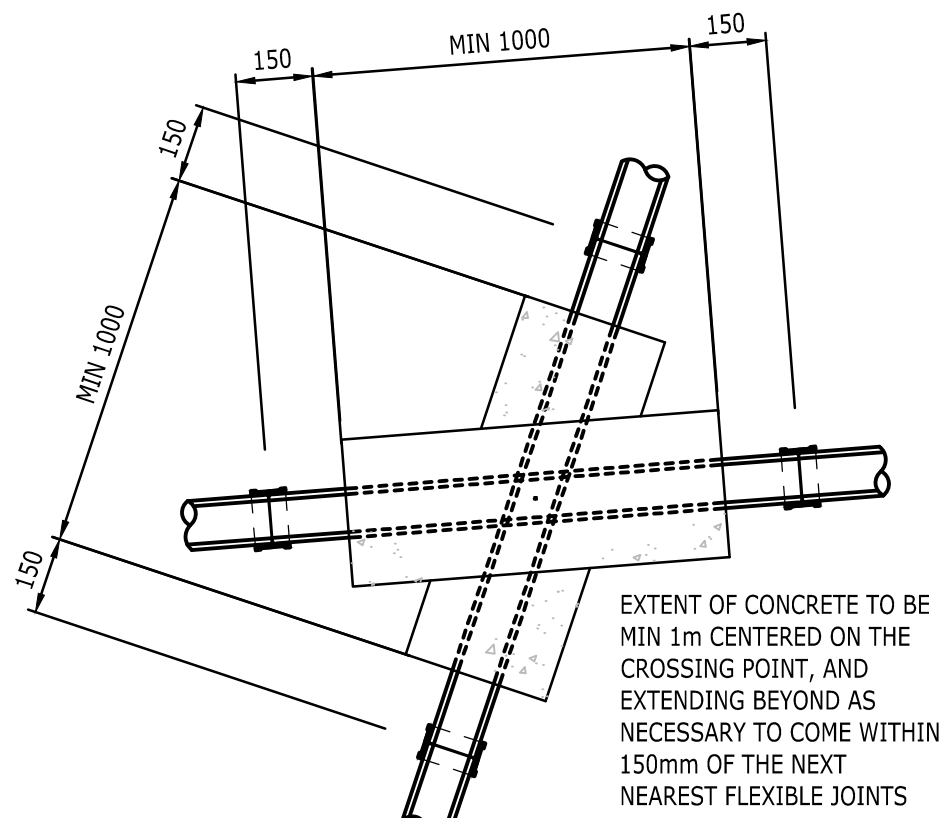
PIPE RUNS NEAR TO BUILDINGS
SCALE 1:20



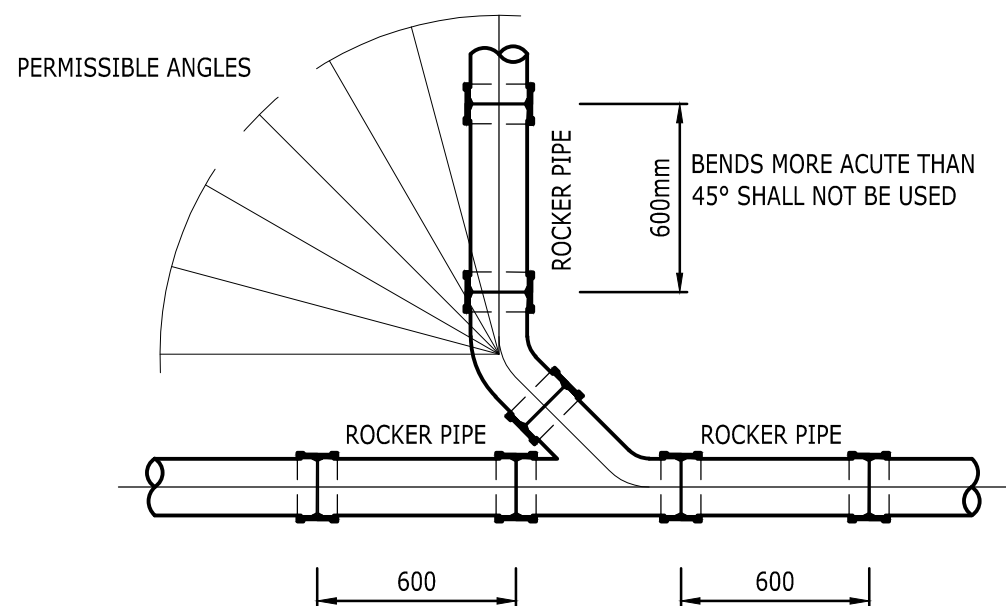
RWP BACK INLET GULLY
SCALE 1:20



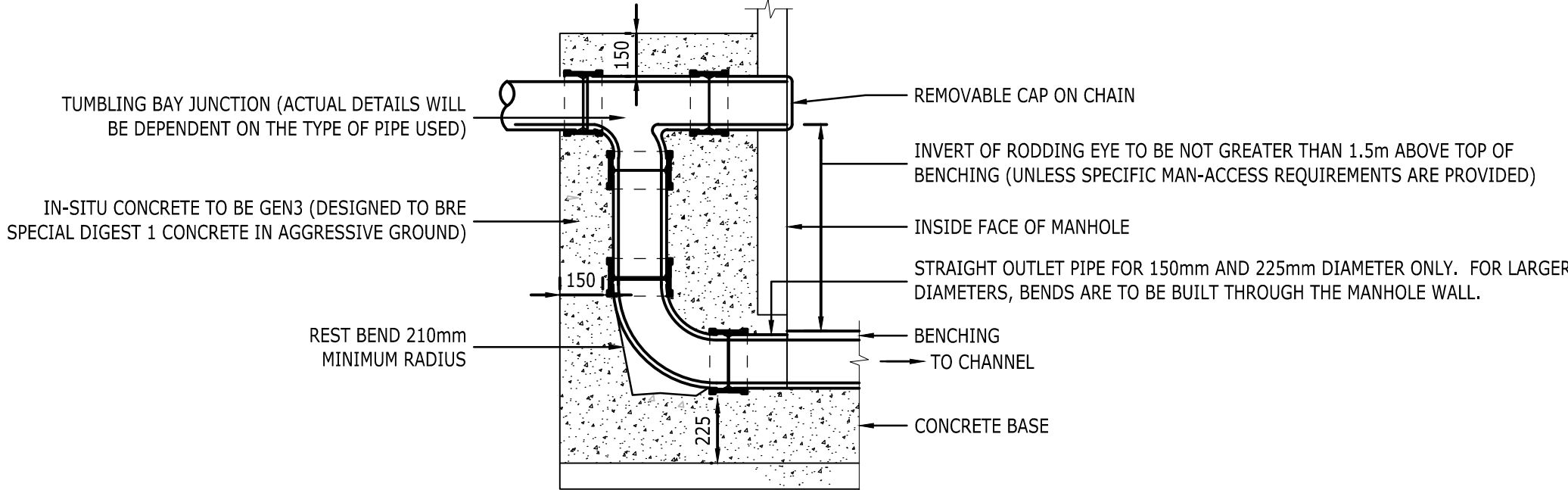
YARD GULLY
SCALE 1:20



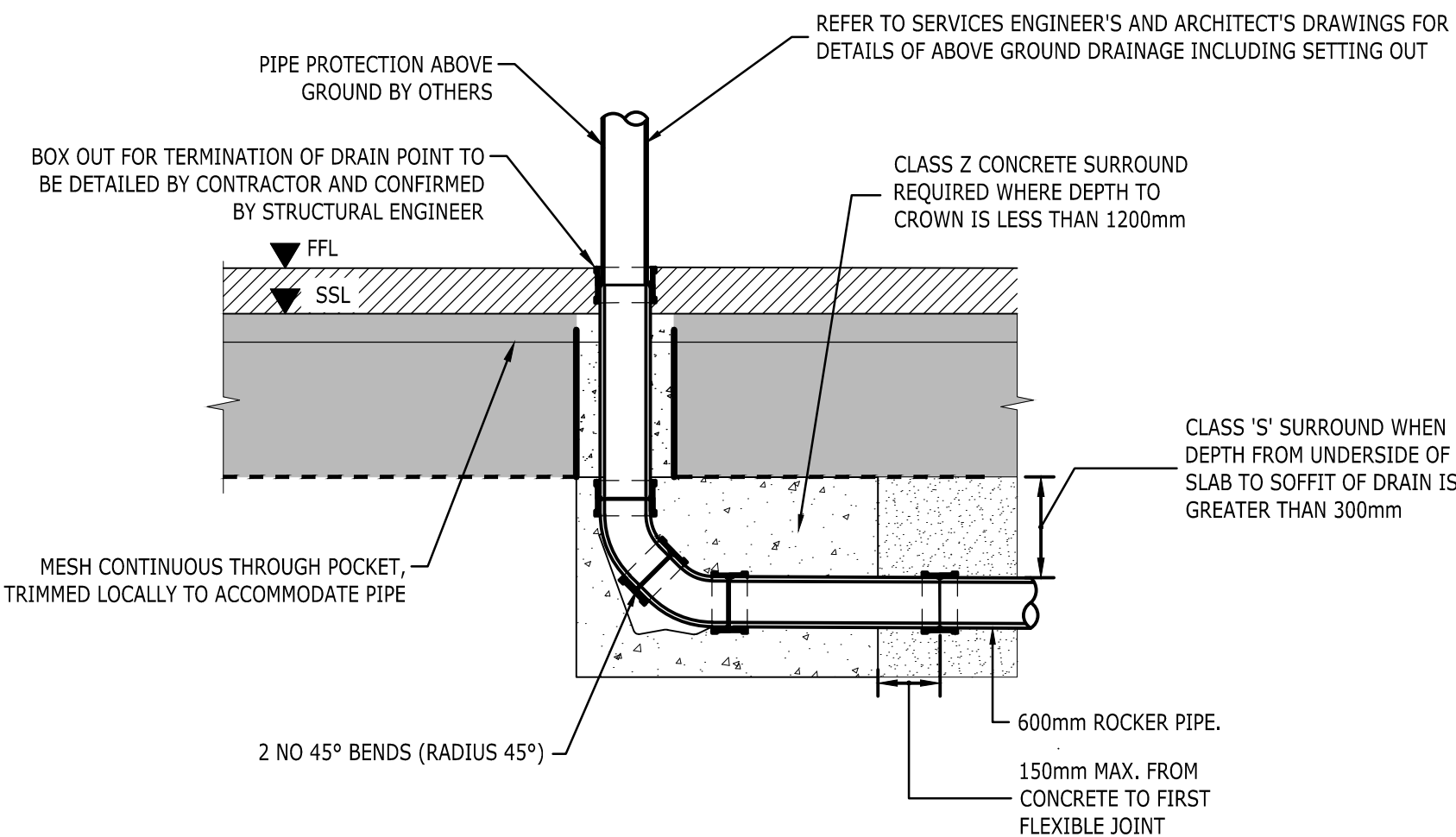
PIPE CROSSING WITH LESS THAN 300mm SEPARATION (PLAN)
NOT TO SCALE



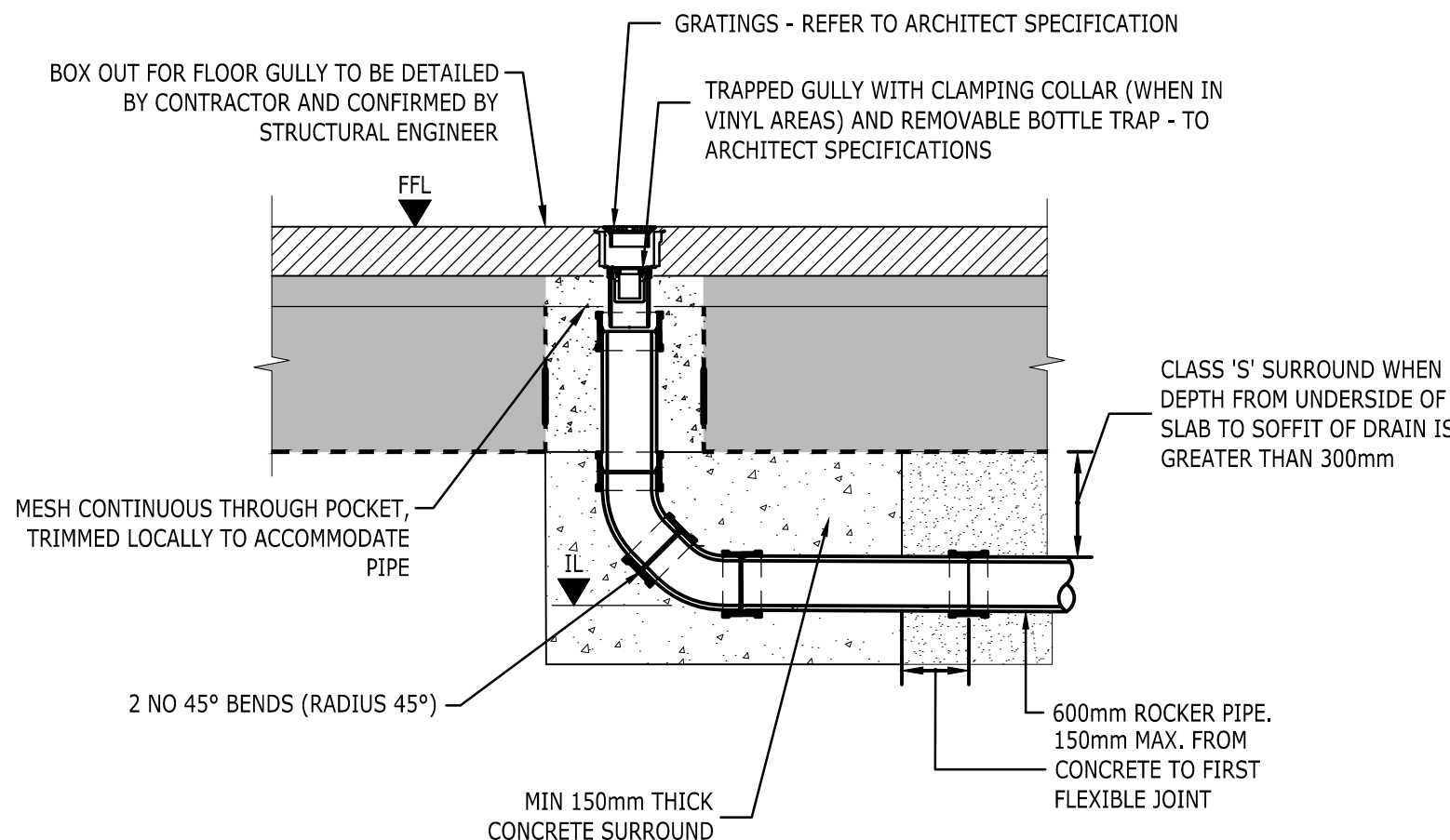
OBLIQUE JUNCTION ARRANGEMENT
NOT TO SCALE



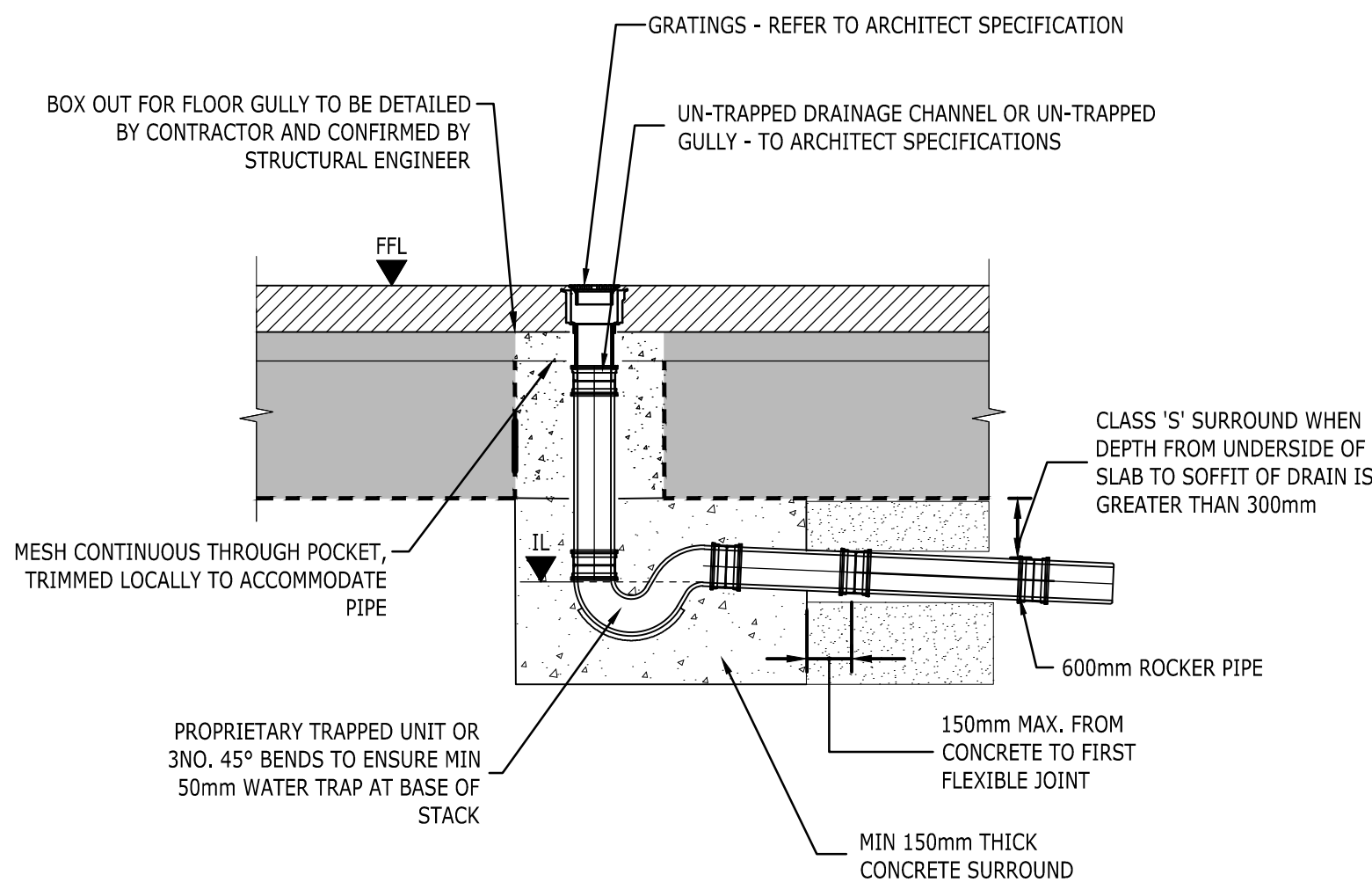
TYPICAL VERTICAL BACKDROP DETAIL
NOTE: STEEPER GRADIENTS ARE PREFERRED TO THE USE OF BACKDROPS.
TYPE OF BACKDROP TO BE USED TO BE AGREED WITH UNDERTAKER.
SCALE 1:20



GENERAL INTERNAL STACK CONNECTION DETAIL
SCALE 1:20



FLOOR GULLY DETAIL
GRATING TYPE VARIES FOR PLANT ROOMS AND OTHER SPACES
SCALE 1:20



FOUL WATER P-TRAP BELOW SLAB DETAIL
FOR CHANNELS OR GULLIES WITH NO INTEGRAL TRAP INSTALLED
SCALE 1:20

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Rev	Description	Date	By Chk	App

CONSTRUCTION

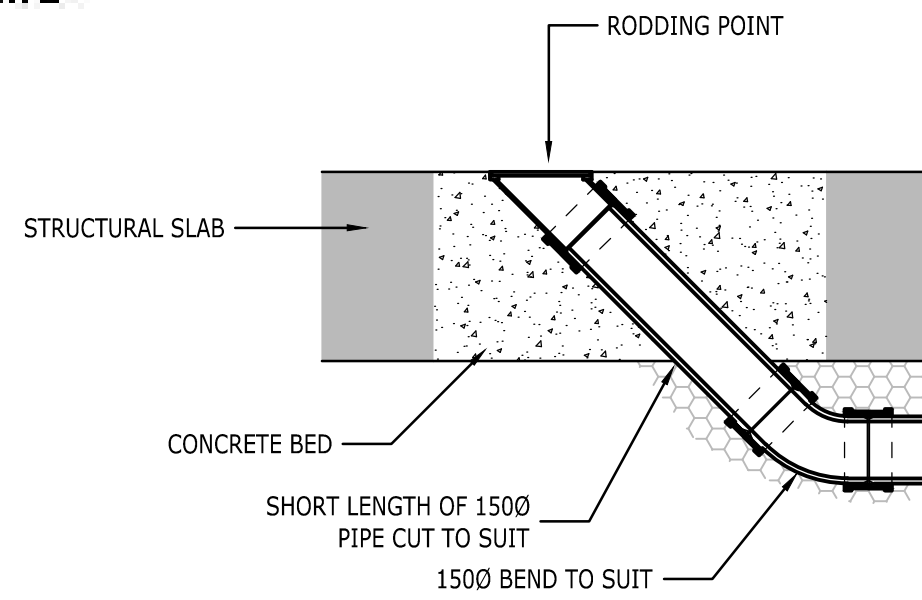
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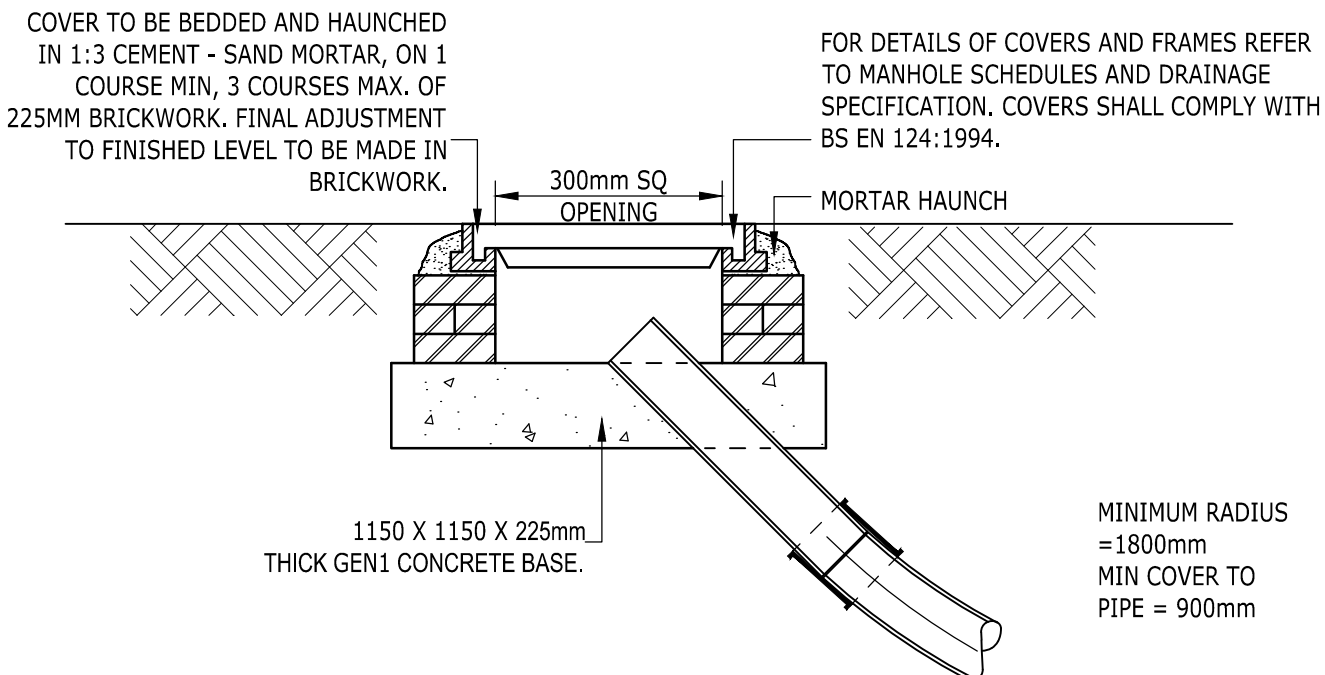
STANDARD DETAILS
SHEET 3

Project No: 1620005164	Scale (@A1): AS SHOWN	Drawn: CO	Date: JUN 19
Drawing No: LP44107-RAM-B01-XX-DR-D-51402	Rev: C02		



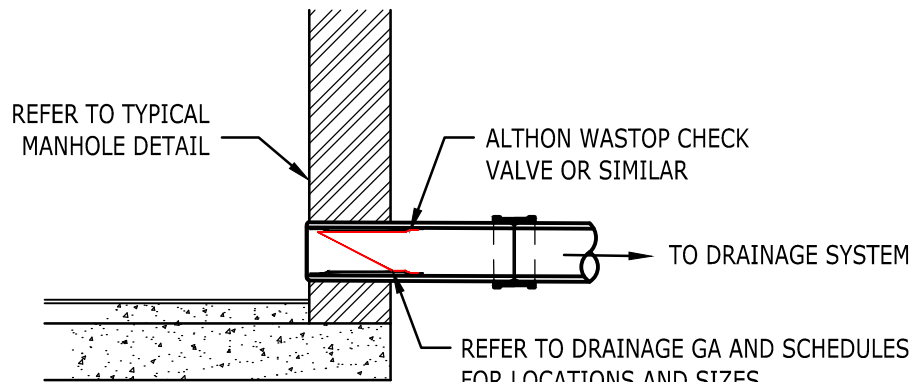
INTERNAL RODDING EYE

SCALE 1:20



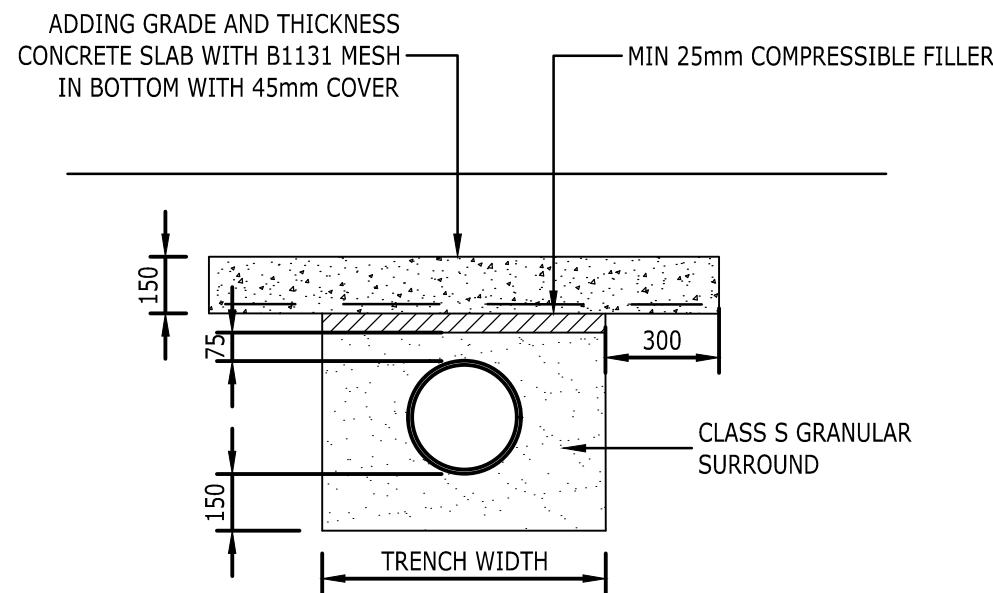
EXTERNAL RODDING EYE

NOT TO SCALE



TYPICAL NON-RETURN VALVE DETAIL

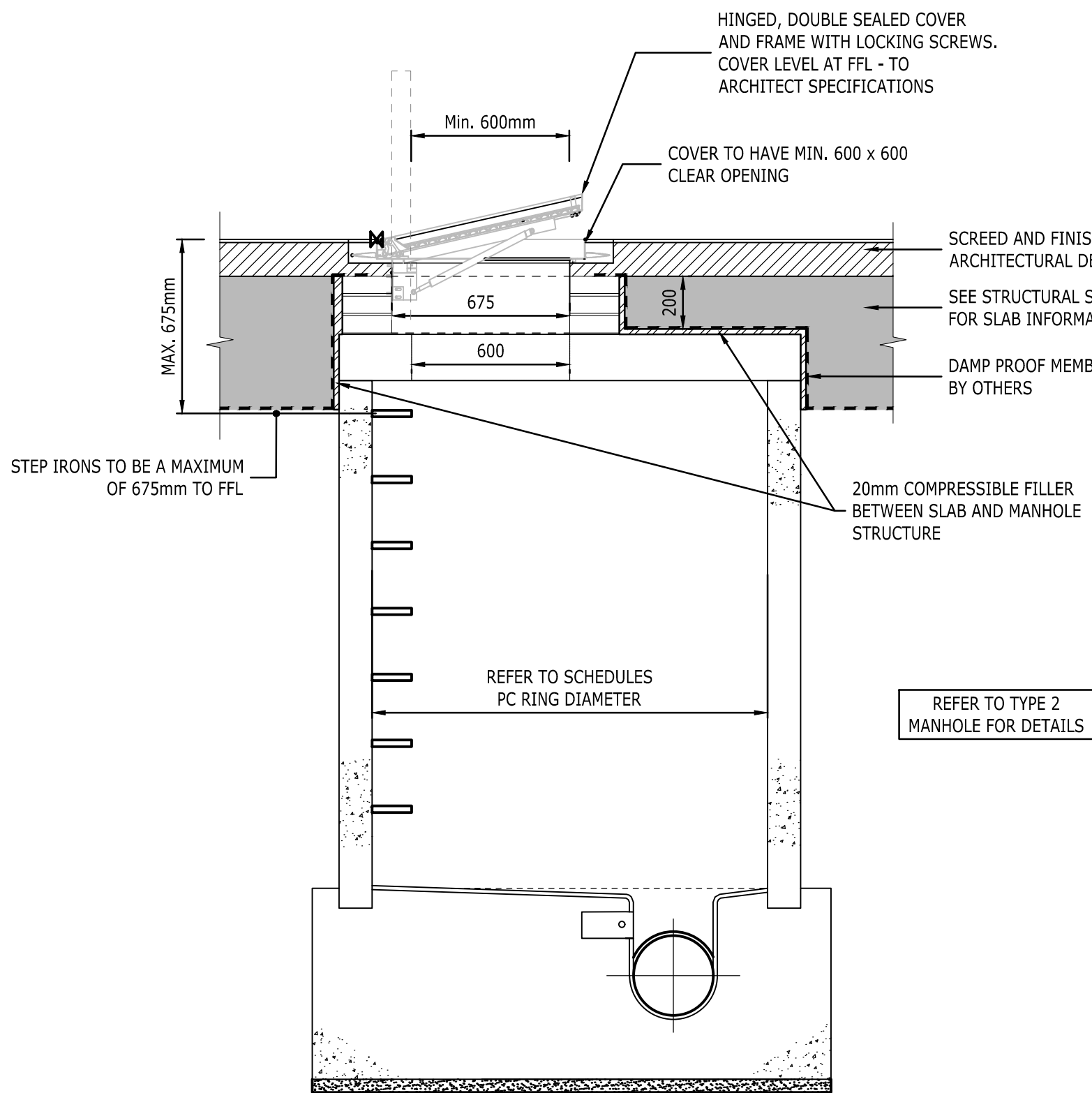
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PROTECTION FOR SHALLOW PIPES

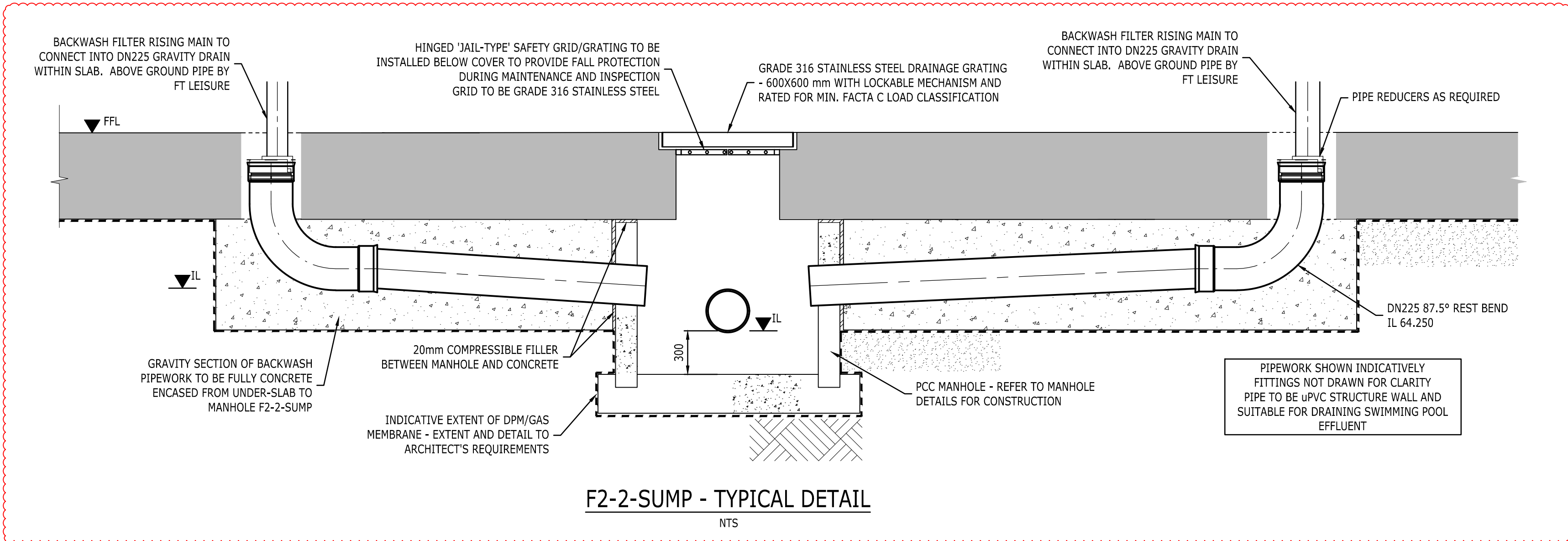
TO BE USED WHERE DEPTH OF COVER TO PIPE IS LESS THAN 600mm

SCALE 1:20



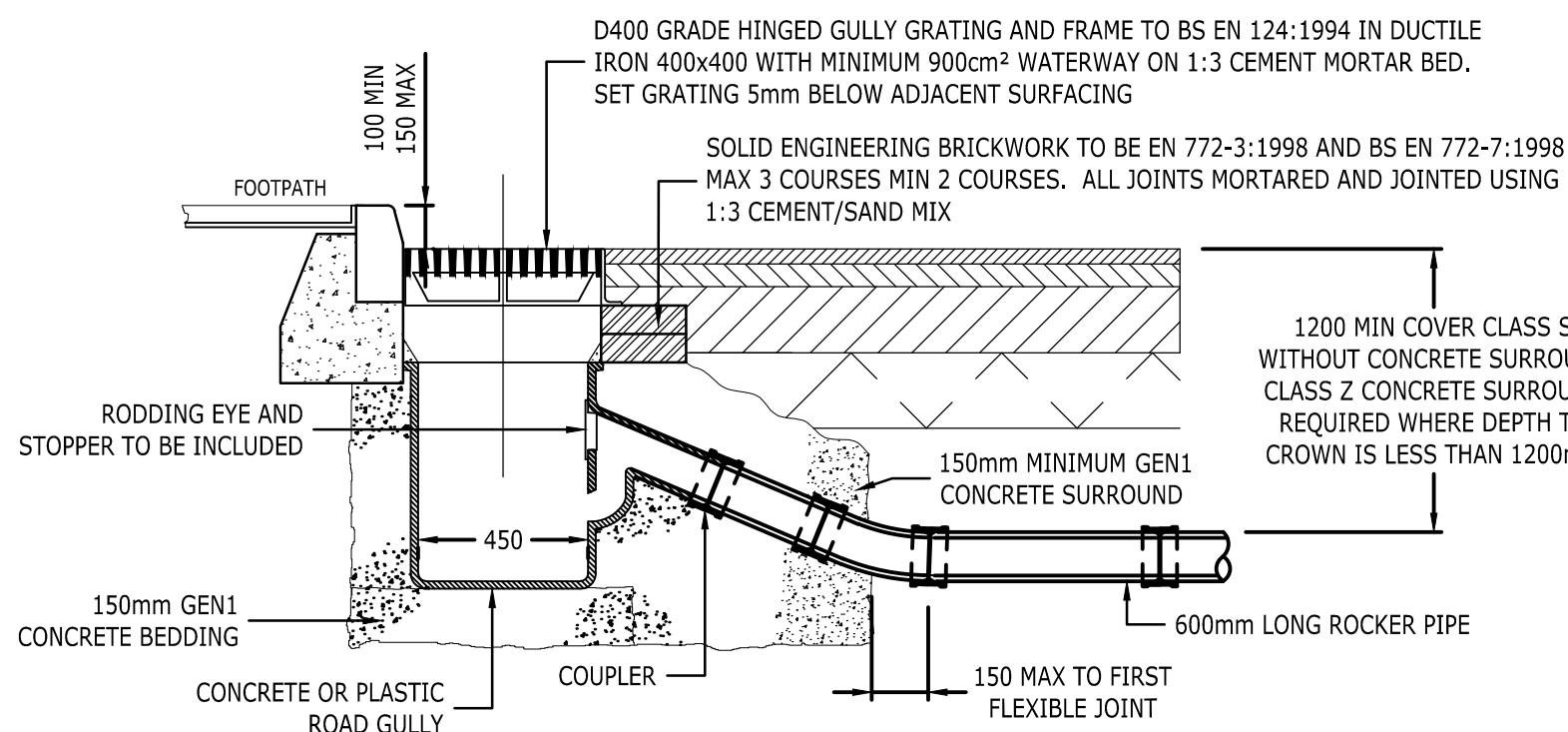
INTERNAL PRECAST MANHOLE

SCALE 1:20



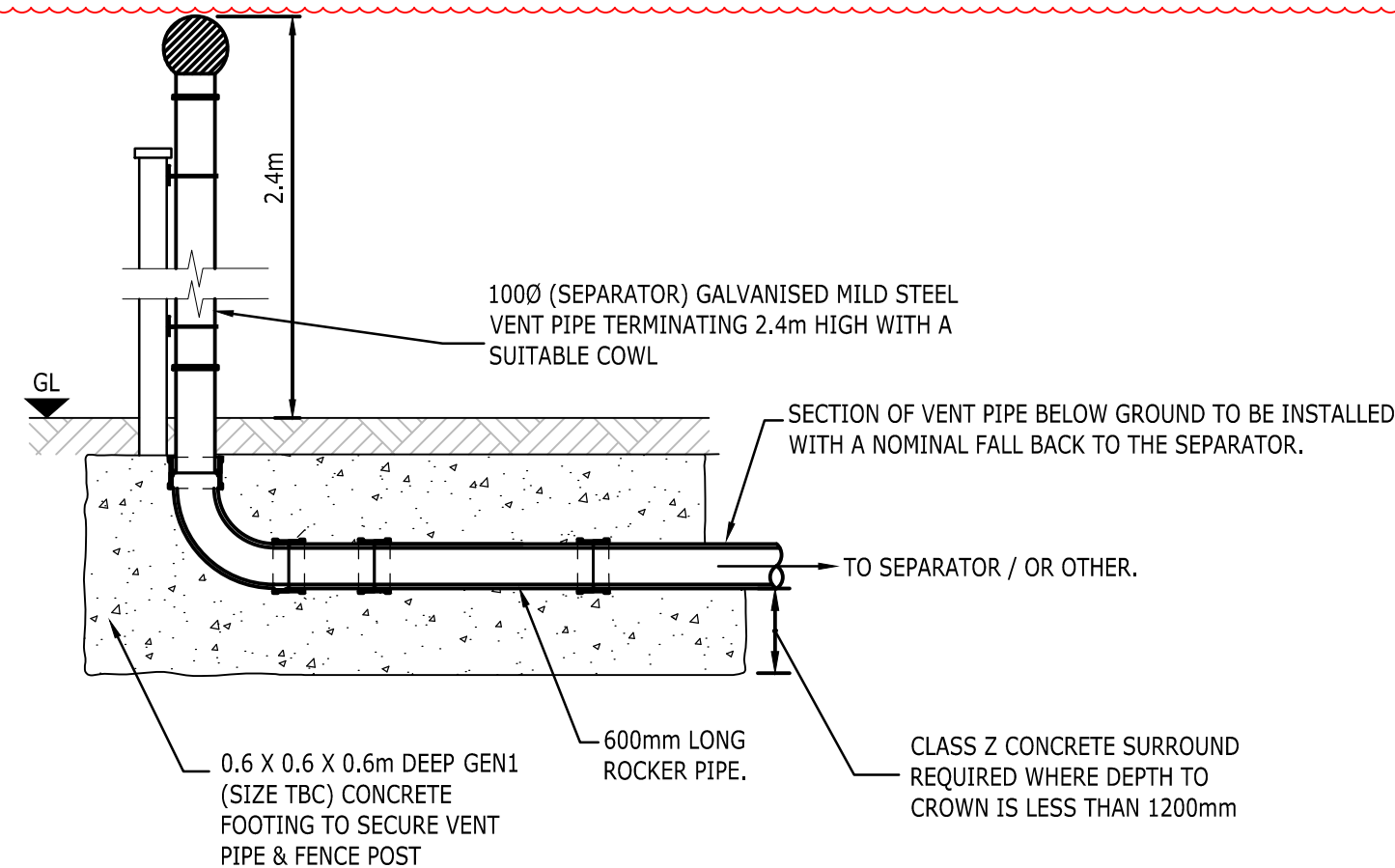
F2-2-SUMP - TYPICAL DETAIL

NTS



ROAD GULLY DETAIL

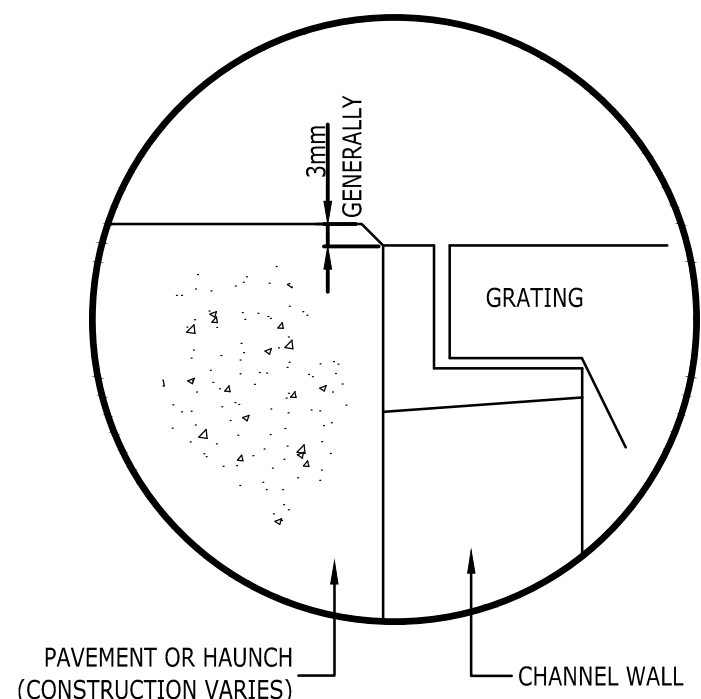
SCALE 1:20



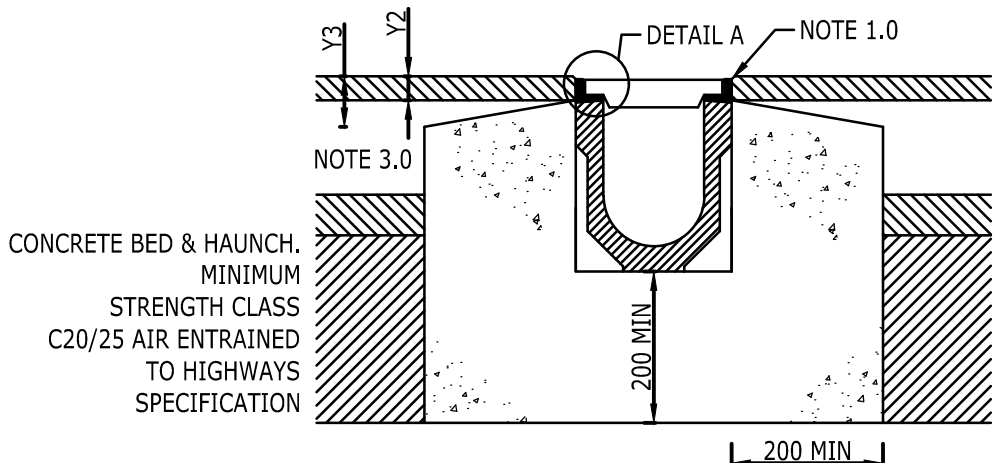
TYPICAL SEPARATOR & ATTENUATION TANK VENT PIPE DETAIL

LOCATION OF ALL VENT PIPES ARE SUBJECT TO CONFIRMATION WITH THE LANDSCAPE ARCHITECT

(NOT TO SCALE)

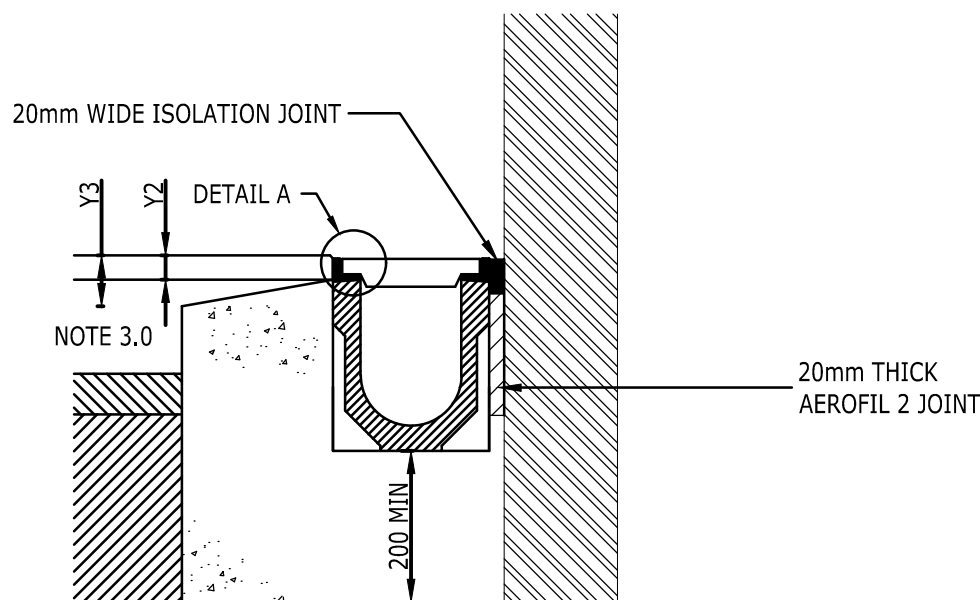


DETAIL A



TYPICAL CHANNEL DRAIN - ASPHALT PAVEMENT

SCALE 1:10



TYPICAL CHANNEL DRAIN - AGAINST STRUCTURE

SCALE 1:10

1.0 SURFACE PROTECTION: IN ASPHALT PAVEMENTS AVOID CONTACT BETWEEN COMPACTION EQUIPMENT AND CHANNEL/GRATING. THIS MAY BE ACHIEVED BY ENSURING THAT THE FINISHED SURFACE LEVEL LIES ABOVE THE GRATING LEVEL (BY AT LEAST 3mm). STONES SHOULD BE REMOVED FROM GRATING PRIOR TO LAYING/ROLLING WEARING COURSE.

2.0 A CHANNEL INSTALLATION IS NOT COMPLETE UNTIL THE FINAL SURFACING IS LAID. IN ANY TEMPORARY CONDITION, I.E WITH THE CHANNEL WALLS PROJECTING ABOVE AN ASPHALT BASE COURSE OR CONCRETE SUB-BASE, SITE TRAFFIC SHOULD NOT CROSS CHANNELS, LOOSE BOARDS; STONE FILL OR COVER PLATES WILL NOT PROTECT THE CHANNEL WALLS OR GRATING. A TEMPORARY CHANNEL CROSSING SHOULD BE FORMED BY RAISING THE ASPHALT BASE COURSE LOCALLY, TO 3 - 5mm ABOVE GRATING LEVEL, EITHER SIDE OF A CHANNEL FOR A DISTANCE OF 750 TO 1000mm SAY, TO FORM RAMPS. CONCRETE RAMPS SHOULD BE FORMED IN OTHER PAVEMENTS.

3.0 ASPHALT PAVEMENT: TOP OF CONCRETE HAUNCH
Y2 = 35mm MAXIMUM
Y3 = 70mm MAXIMUM

4.0 BOLTS: TO COMPLETE THE INSTALLATION, TIGHTEN THE GRATING FIXING BOLTS TO A TORQUE OF 40NM.

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Notes

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE MILLIMETRES U.N.O.
3. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM U.N.O.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.

C02	CONSTRUCTION ISSUE			
	Previous revision history added	15/11 2021	SG GS	LS
C01	CONSTRUCTION ISSUE	11/08 2021	SG GS	LS
P01	STAGE 5 PR1 ISSUE	01/08 2021	SG GS	LS
Rev	Description	Date	By Chk	App

CONSTRUCTION

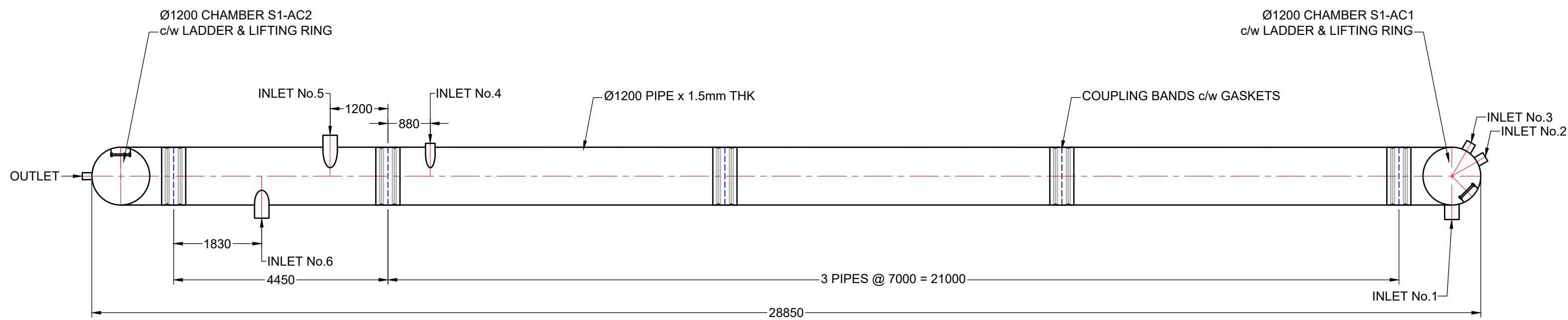
ABRAHAM MOSS
LIBRARY AND
LEISURE CENTRE

RAMBOLL

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STANDARD DETAILS
SHEET 4

Project No:	Scale (@A1):	Drawn:	Date:
1620005164	AS SHOWN	SG	MAY 21
Drawing No:		Rev:	
LP44107-RAM-B01-XX-DR-D-51403			C02



PLAN VIEW
SCALE 1:75

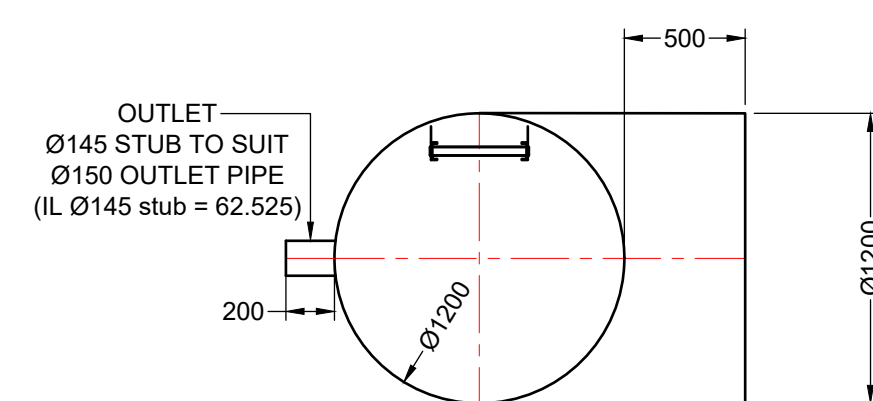
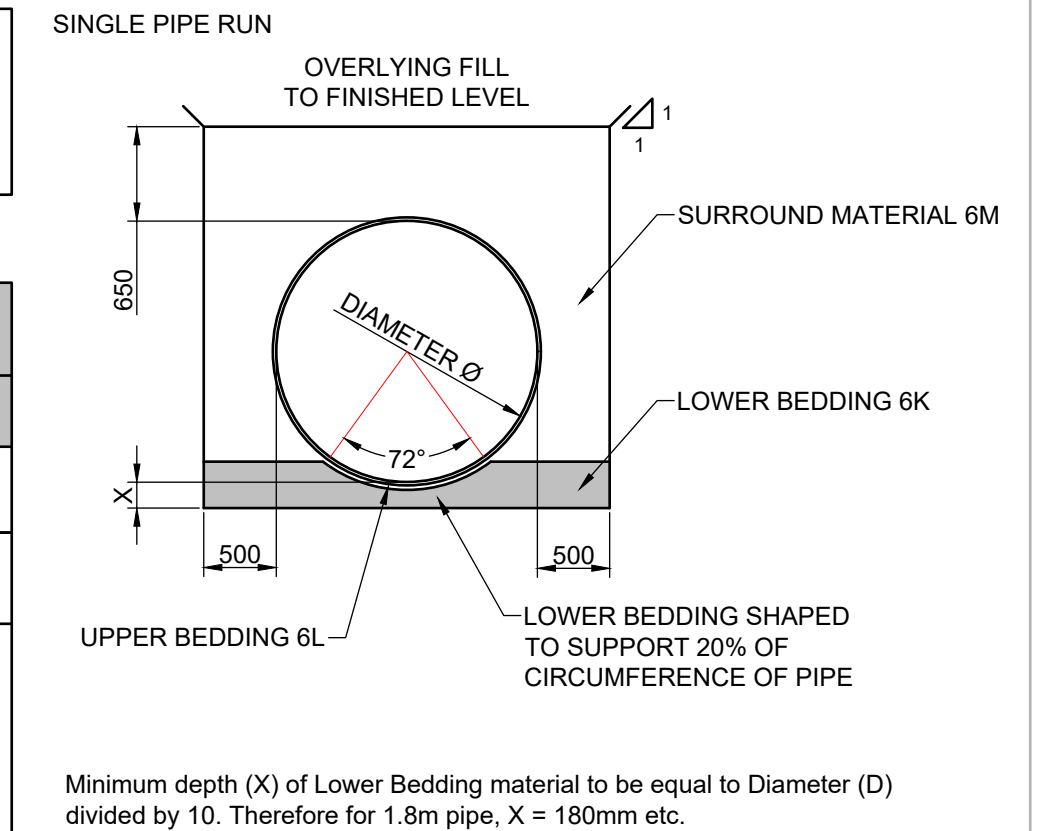
BACKFILL & BEDDING MATERIALS SPECIFICATION

Lower bedding material	6K	Natural gravel, natural sand, crushed gravel, crushed rock other than argillaceous rock, crushed concrete, well - burnt colliery spoil or any combination thereof.
Upper bedding material	6L	
Surround material	6M	

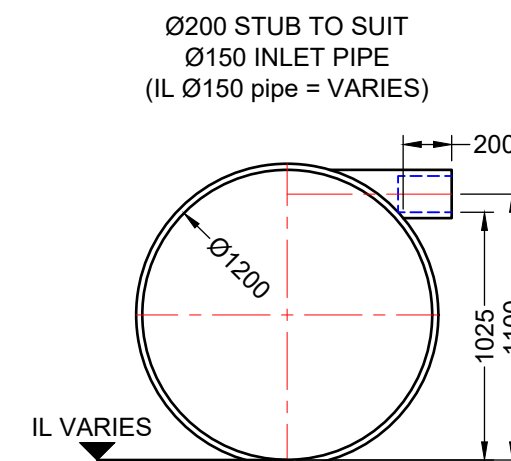
The above information is drawn from the design manual for roads and bridges. The materials listed below are as described in series 600 MCHW1.

Material	PERCENTAGE BY MASS PASSING THE SIZE SHOWN									
	Size (mm) BS Series						Size (um) BS Series			
	75	20	10	5	2	1.18	600	300	150	63
Lower bedding 6K		100								0-10
Upper bedding 6L			100	89-100	60-100	30-100	15-100	5-70	0-15 (except 0-20 for crushed rock)	
Surround 6M	100									0-10

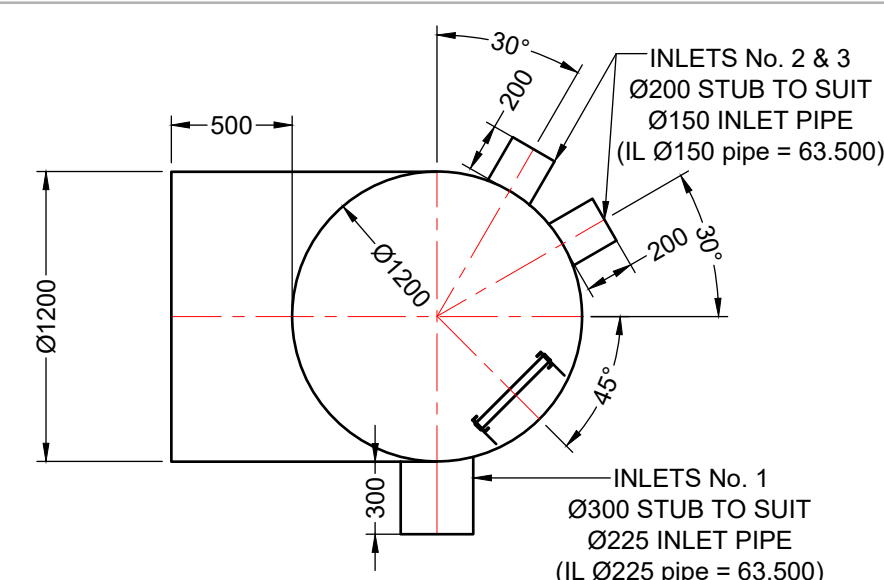
EXCAVATION AND BACKFILL REQUIREMENTS



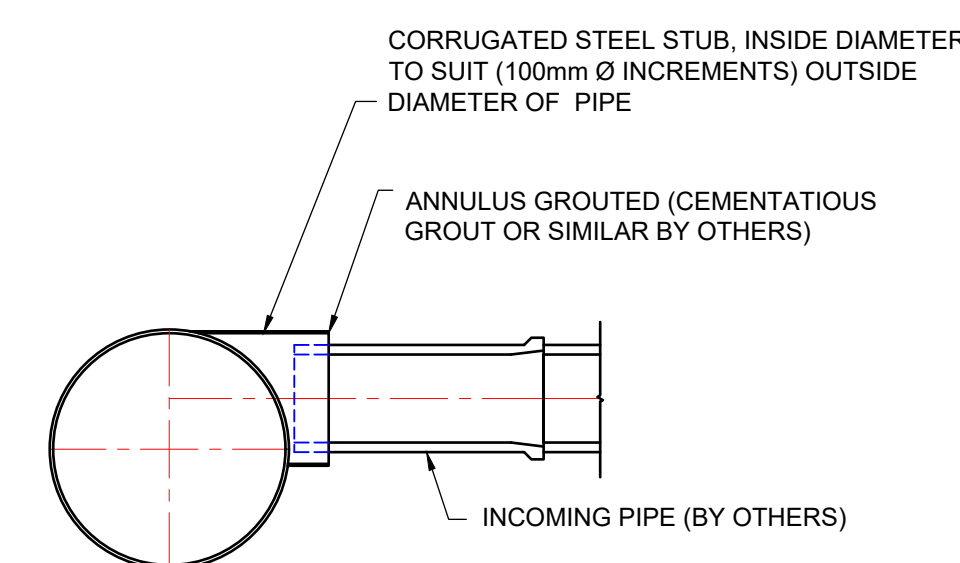
PLAN VIEW



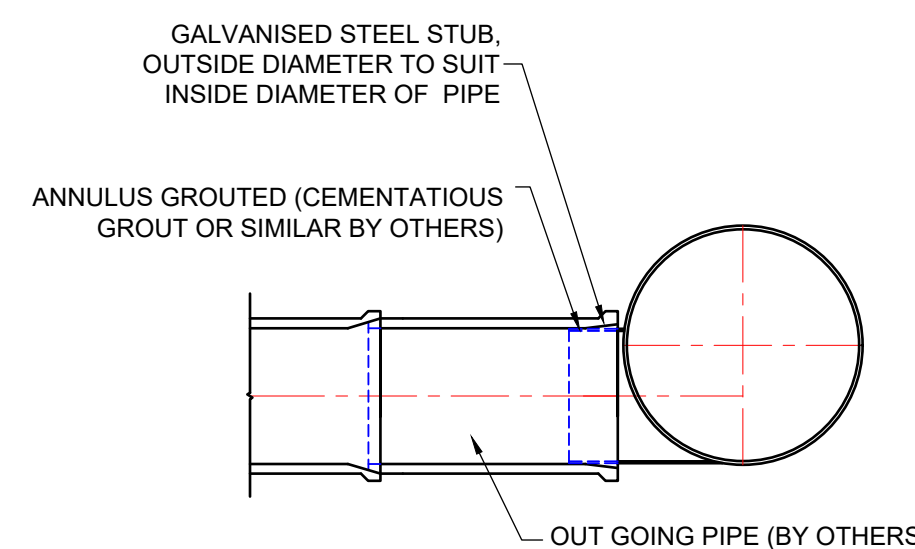
SECTION THROUGH
INLETS No. 4
SCALE 1:30



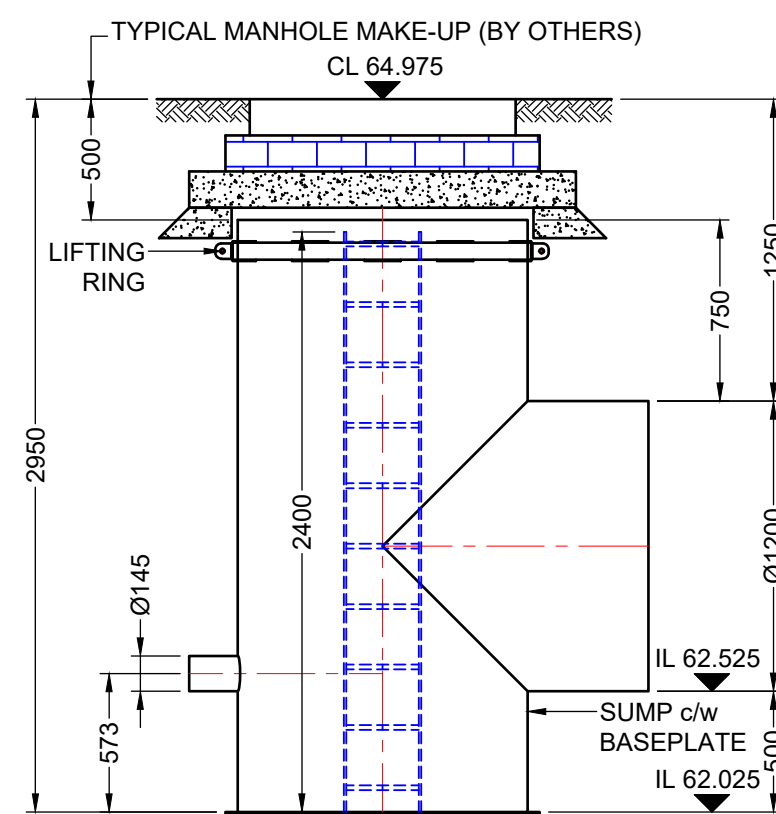
PLAN VIEW



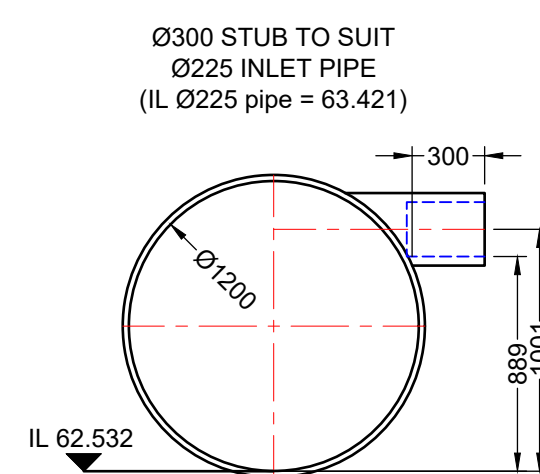
TYPICAL SECTION THROUGH
INLET CONNECTION



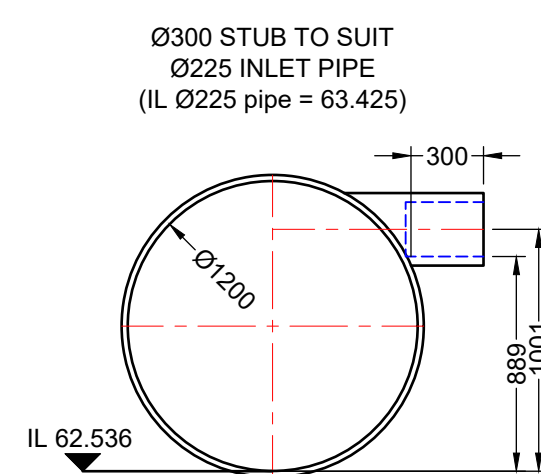
TYPICAL SECTION THROUGH
OUTLET CONNECTION



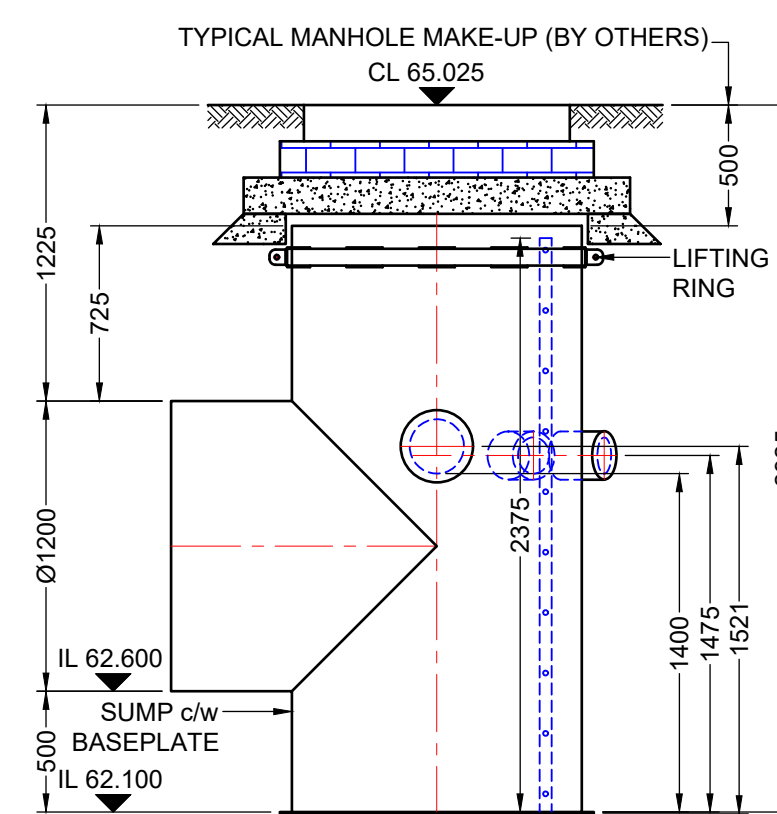
ELEVATION THROUGH
Ø1200 CHAMBER S1-AC2
SCALE 1:30



SECTION THROUGH
INLET No. 6
SCALE 1:30

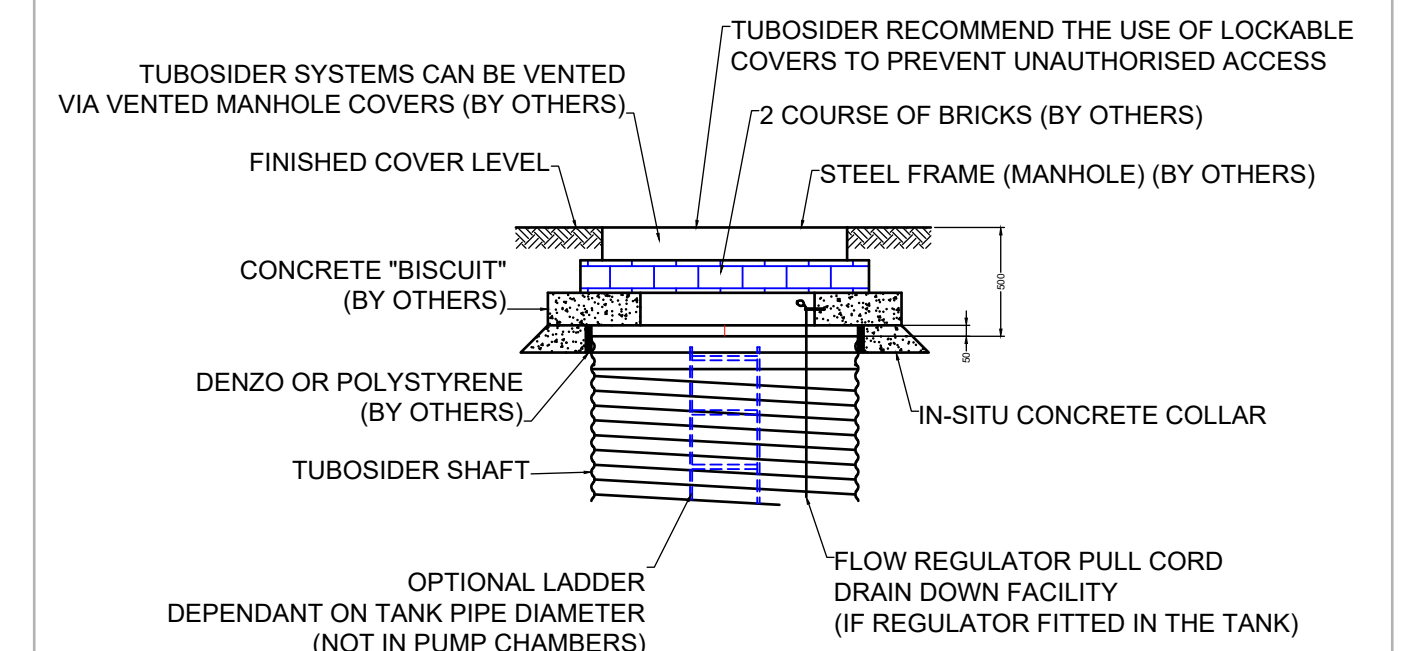


SECTION THROUGH
INLET No. 5
SCALE 1:30

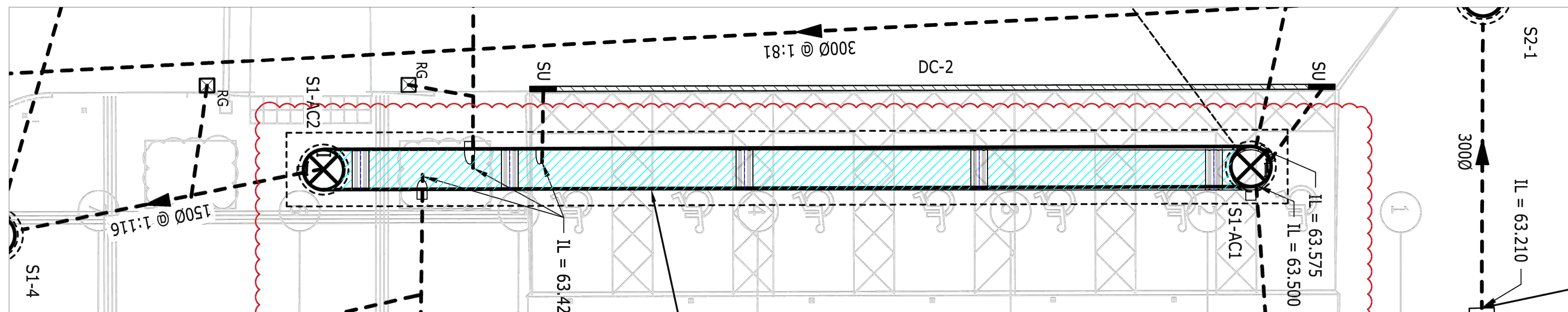
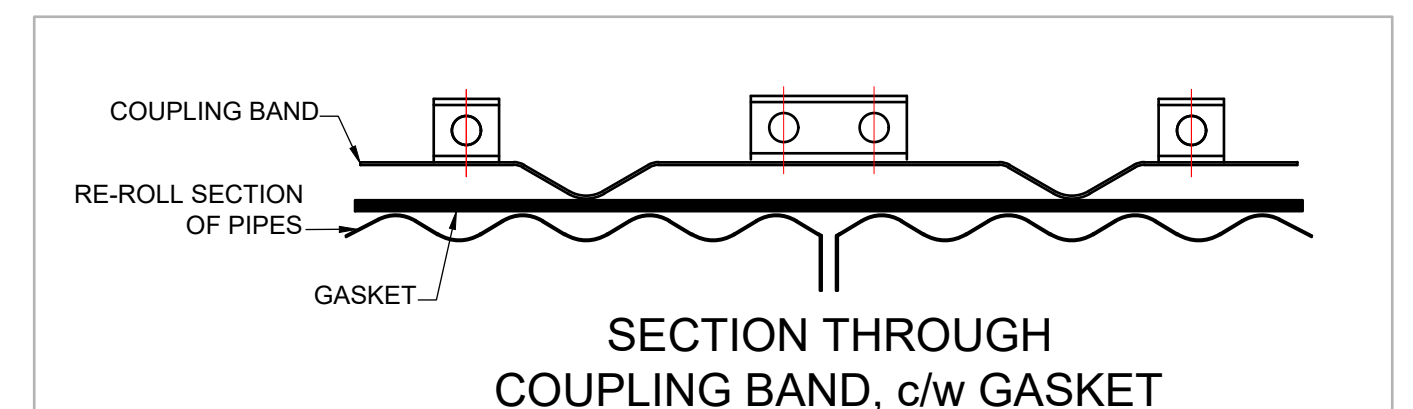


ELEVATION THROUGH
Ø1200 CHAMBER S1-AC1
SCALE 1:30

TYPICAL MAINTENANCE, ACCESS AND PUMP CHAMBER SHAFT FINISHING DETAIL



- NOTES:
- When calculating shaft heights Tubosider allow 500mm between finished cover level (FCL) and top of shaft.
 - The 500mm is typically made up of a concrete "biscuit" 2 courses of bricks and a steel manhole frame. Any discrepancy in levels can be taken up within the brickwork
 - Prior to placing the "biscuit" the top of the shaft should be wrapped with denzo or polystyrene and the concrete ring should be cast with the top approximately 50mm above the top of the shaft (the shaft must not become load bearing). The "biscuit" should then be bedded onto the concrete ring with sand and cement mortar.
 - Concrete "biscuit", bricks, cover and frame supplied by others.



Rev	Date	Drawn	Description
E	29.09.21	JS	Outlet updated
D	30.07.21	JS	Updated to suit comments
C	21.07.21	JS	Updated to suit latest drainage design
B	29.06.21	JS	For Comment/Approval
A	23.06.21	JS	Sales Drawing
-	08.06.21	JS	Sales Drawing

TITLE
Tubosider Tank For
Abraham Moss Library & Leisure Centre
Tank 1

Cubic Capacity = 32.6m3
EN21_20598

SCALE @ AS	TUBOSIDER DRAWING No.	REV	SHEET
AS SHOWN	2101_10132_TUB17252_E		1



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