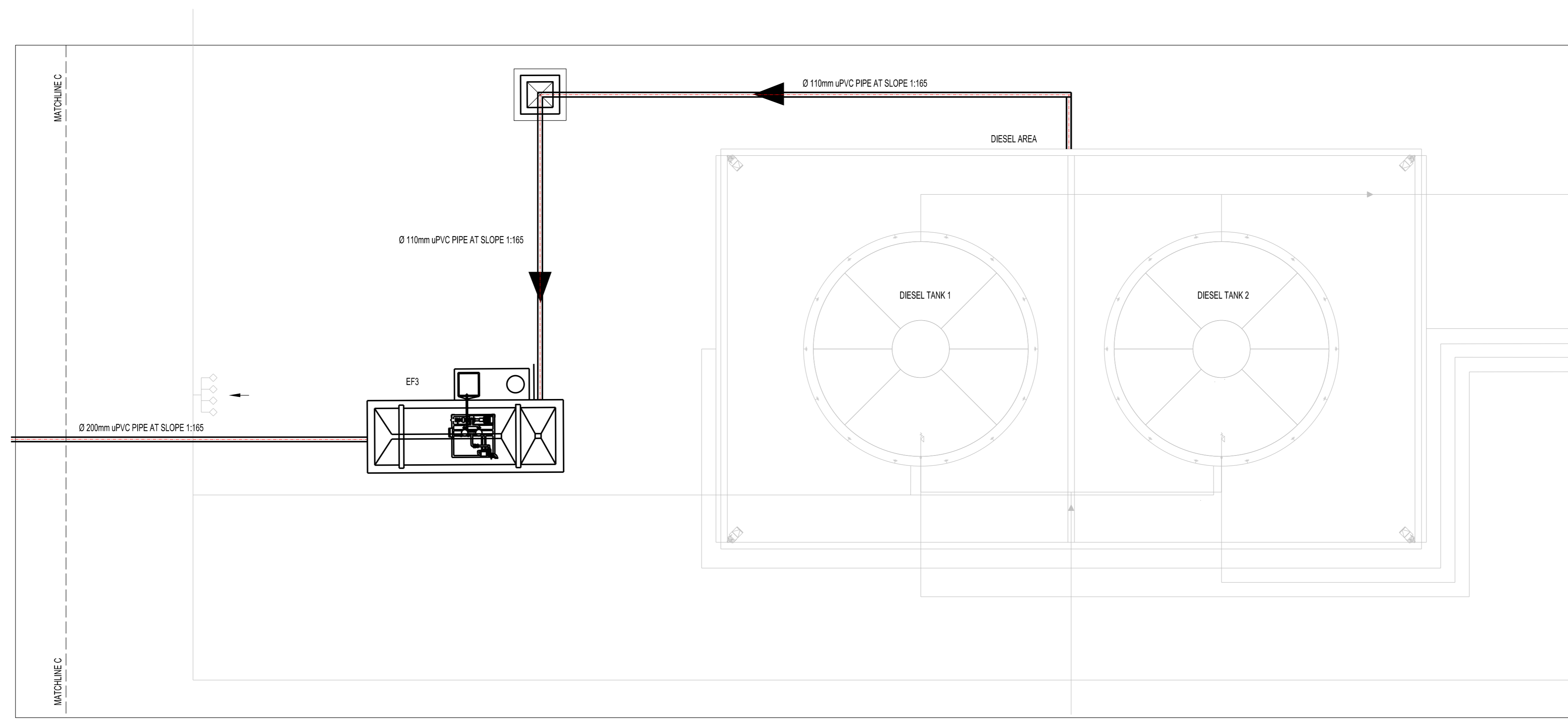


EFFLUENT LAYOUT DECANTING SLAB
SCALE 1:100



EFFLUENT LAYOUT DIESEL STORAGE AREA
SCALE 1:100

NOTES
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DRAWING NO.	REFERENCE
1	REFERENCE DRAWINGS

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
2	ISSUED FOR CLIENT REVIEW	TM	JB		27/10/2017
1	ISSUED FOR SQUAD CHECK	TM	JB		19/10/2017

CONTRACTOR / CONSULTANT		TRANSNET CAPITAL PROJECTS					
TITLE	NAME	SGN	DATE	TITLE	NAME	SGN	DATE
				DRAWN	TM		27 10 17
				CHECKED	JB		27 10 17
				DESIGNED	TM		27 10 17
				CHECKED	JB		27 10 17
OPERATING DIVISIONS		PR. ENG. / PR. TECH. / PR. ARCH					
TITLE	NAME	SGN	DATE	NAME	DATE		
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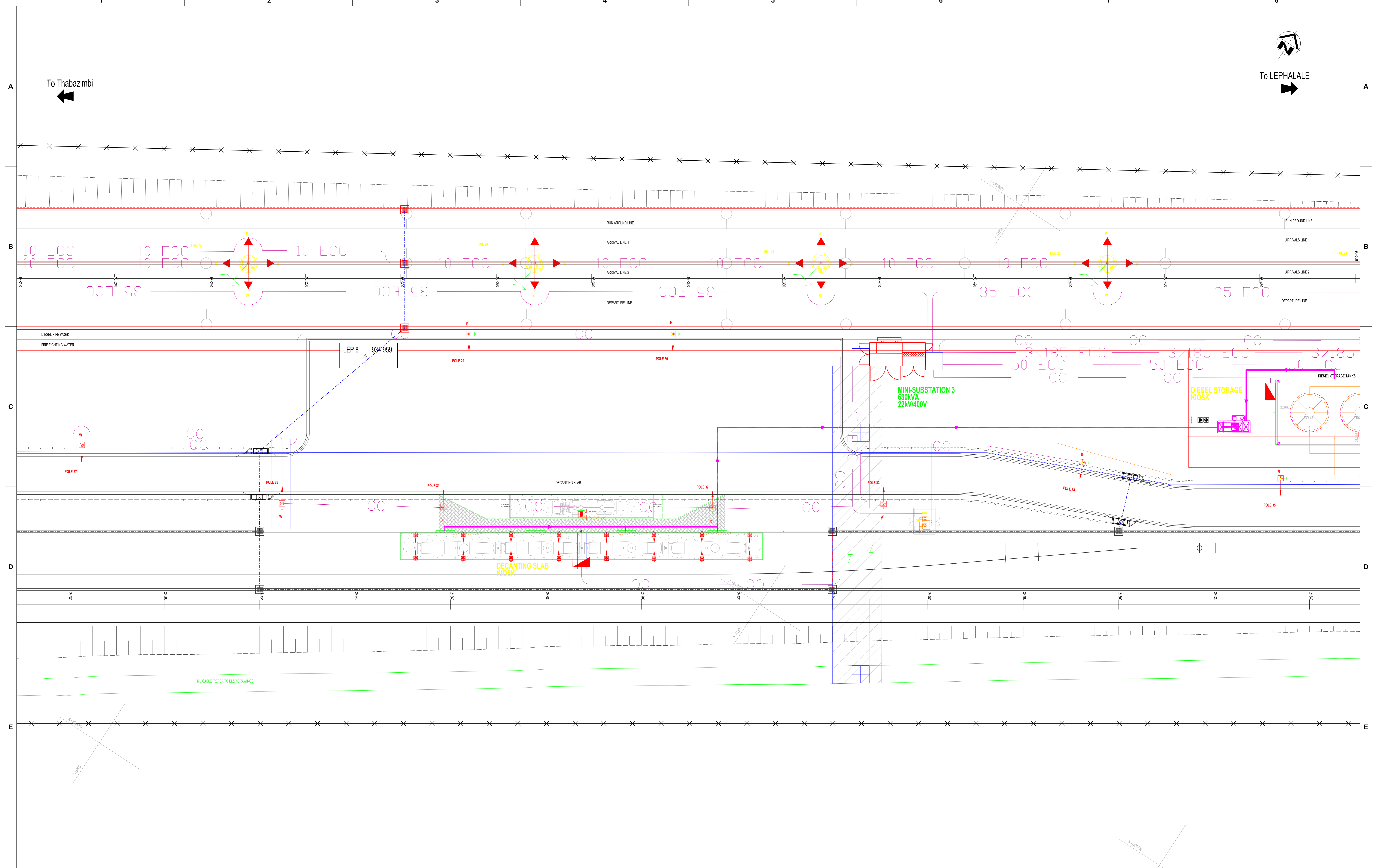
Transnet Capital Projects
 TRANSNET CAPITAL PROJECTS
 CARLTON CENTRE
 150 COMMISSIONER STREET
 JOHANNESBURG 2001
 TEL: 011 308 3000
 FAX: 011 308 2315

TRANSNET

PYRAMID SOUTH - LEPHALALE

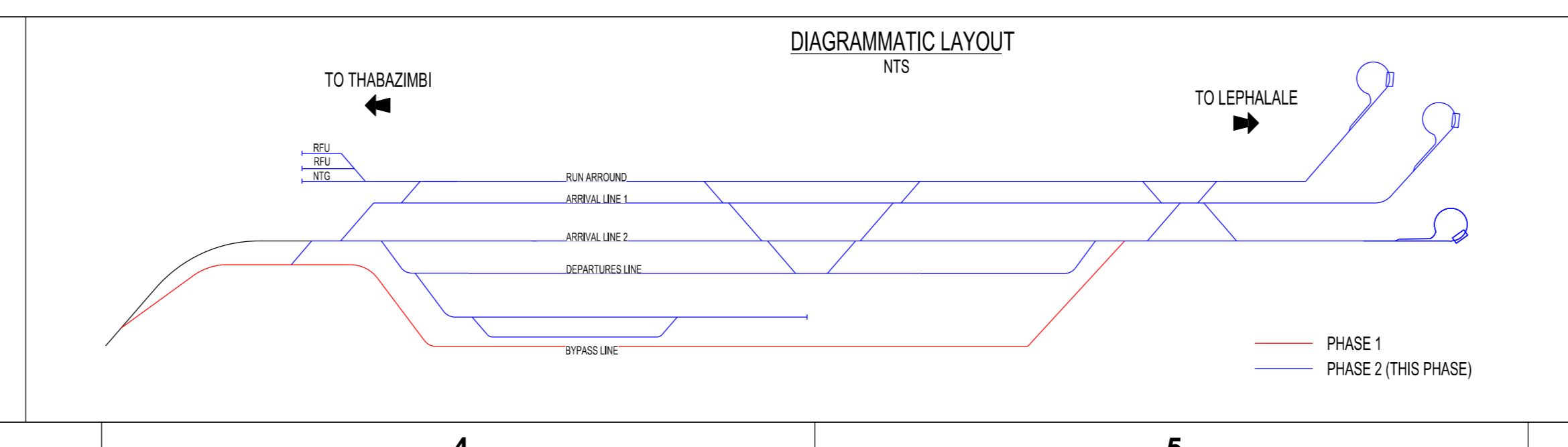
LEPHALALE NSF YARD
 WATERBERG STAGE 3
 SEWER LONG SECTION
 DECANTING SLAB AND FUEL STORAGE AREA

PROJECT NUMBER	OD	FBS	DSS	TYPE	DRAWING NO.	SHEET	REV	ID
4.2.4.3.0.2	4	1	A	5	C	L	A	0.0.4.0.5.1.2



DRAWING NO.	REFERENCE
1	REFERENCE DRAWINGS

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 - LOCAL CHANGES GIVEN TO BE USED FOR CONSTRUCTION PURPOSES ONLY.
 - SURVEY DATUM TO WGS84 AND msl.
 - SURVEYOR MUST INSTALL PROFILE PEGS AT 10m INTERVALS ON VERTICAL CURVES AND STAKE TRANSITION CURVES AT 10m INTERVALS AS WELL.
 - SURVEYOR MUST STAKE CIRCULAR CURVES SHORTER THAN 25m AT 10m INTERVALS.
- SPECIFICATIONS**
- S - CLASS RAILWAY LINE
 - 26 TON/JAILE LOADING
 - DISTRIBUTED POWER TRAINS
 - DESIGN SPEED 80 KM/H
 - 60 Ngin TANGENTIAL SETS
 - 60E1 GRADE 350 LIT TYPE RAILS
 - CWR JOINTS
 - PY TYPE SLEEPERS AND FASTENERS AT 650 mm SPACING
 - 1600 m3/km BALLAST (300 mm UNDER SLEEPER)



REVISIONS

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
2	ISSUED FOR CLIENT REVIEW	SM	JB		25-10-2017
1	ISSUED FOR SQUAD CHECK	SM	JB		16-10-2017

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CONTRACTOR / CONSULTANT				TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SKGN	DATE	TITLE	NAME	SKGN	DATE
				DRAWN	SM		16 10 17
				CHECKED	JB		16 10 17
				DESIGNED	SM		16 10 17
				CHECKED	JB		16 10 17
OPERATING DIVISIONS				PR.ENG. / PR.TECH./PR. ARCH			
TITLE	NAME	SKGN	DATE	NAME	SKGN	DATE	DATE
				PR.ENG. / PR.TECH./PR. ARCH			
				SIGNATURE	<i>R. Heera</i>	05 11 17	
				REG. NUMBER	960308		
				SCALE	AS SHOWN		

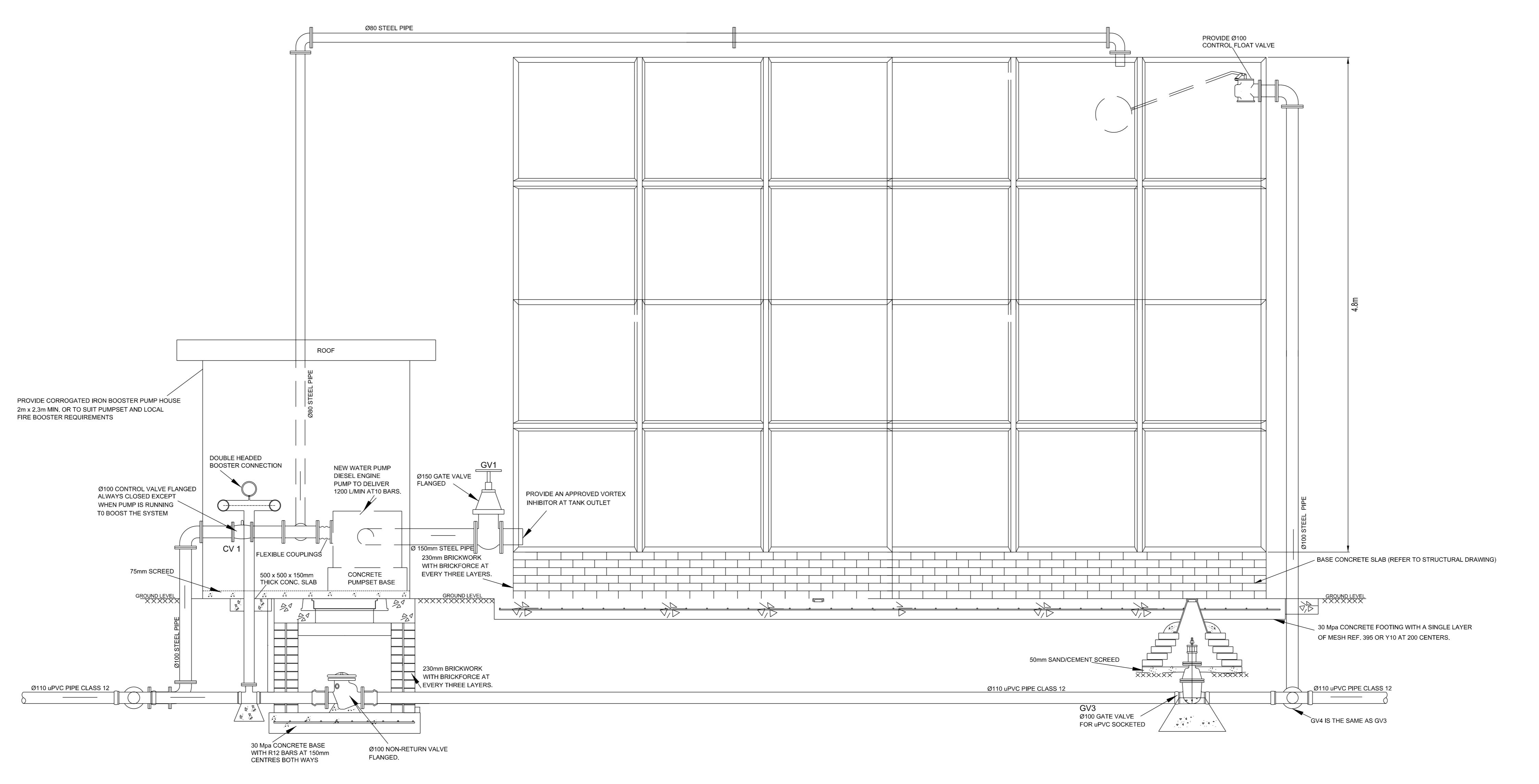
Transnet Capital Projects

TRANSNET

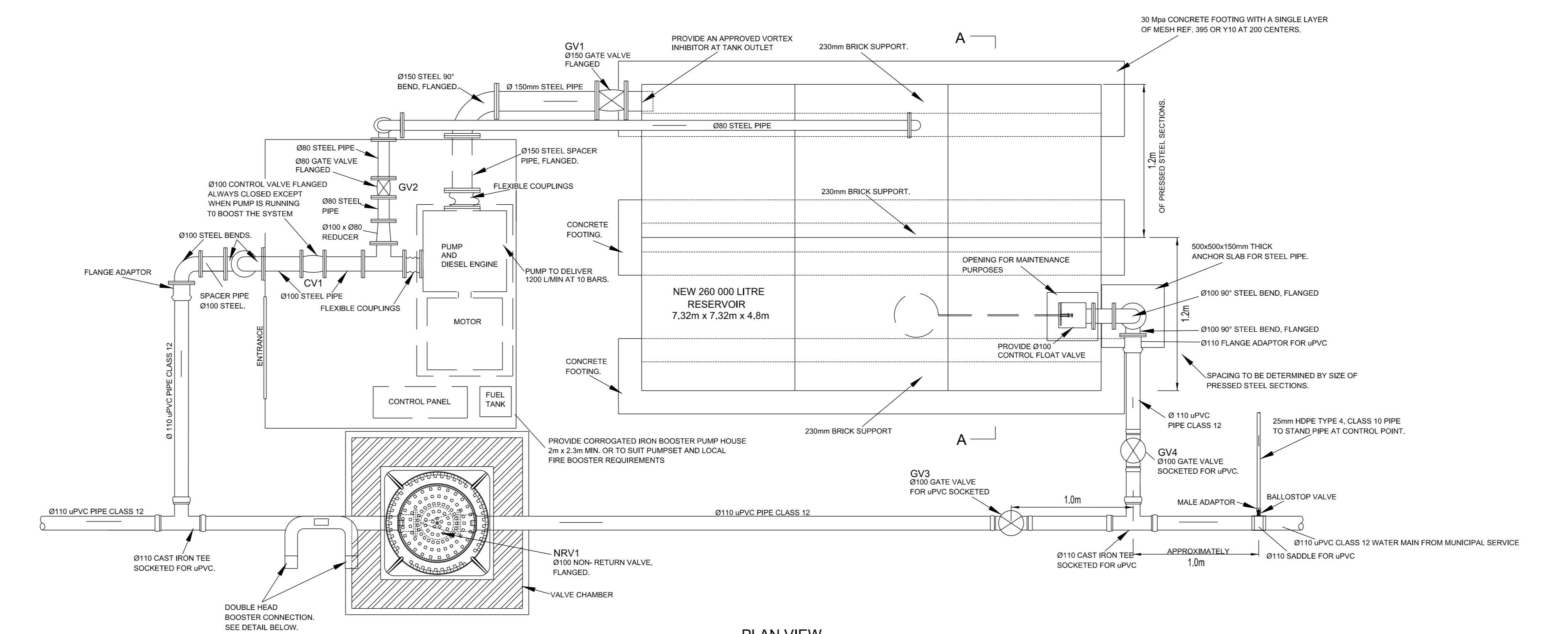
THABAZIMBI - LEPHALALE

LEPHALALE NSF YARD
WATERBERG - STAGE 3
PLAN LAYOUT - COMBINED SERVICES (DECANTING SLAB)
KM 2+280 TO KM 2+540

PROJECT NUMBER	OD	FBS	DES	TYPE	DRAWING NO.	SHEET	REV	ID
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					A	5	C	L
					A	0	0	1
					1	2	2	SM



ELEVATION
RESERVOIR AND PIPE LAYOUT FOR BULK WATER SUPPLY (DOMESTIC WATER)
SCALE
NTS



PLAN VIEW
RESERVOIR AND PIPE LAYOUT FOR BULK WATER SUPPLY (DOMESTIC WATER)
SCALE
NTS

DRAWING NO.	REFERENCE
1	REFERENCE DRAWINGS

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
2	ISSUED FOR CLIENT REVIEW	SM	JB		25-10-2017
1	ISSUED FOR SQUAD CHECK	SM	JB		18-10-2017

CONTRACTOR / CONSULTANT		TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SGN	DATE	NAME	DATE
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				JB	16 10 17
				SM	16 10 17
				JB	16 10 17

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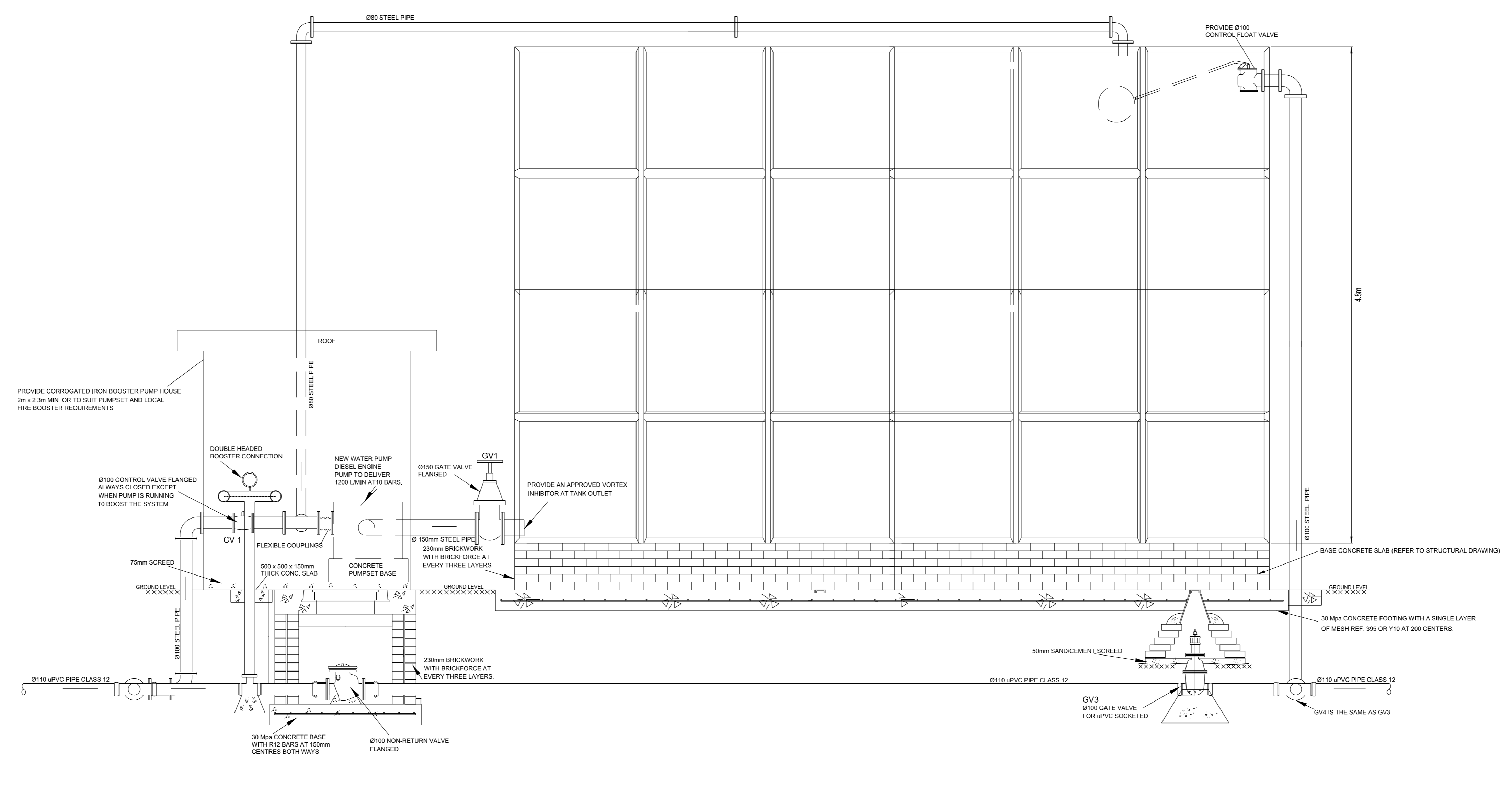
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 CARLTON CENTRE
 150 COMMISSIONER STREET
 JOHANNESBURG 2001
 TEL: 011 308 3000
 FAX: 011 308 2315

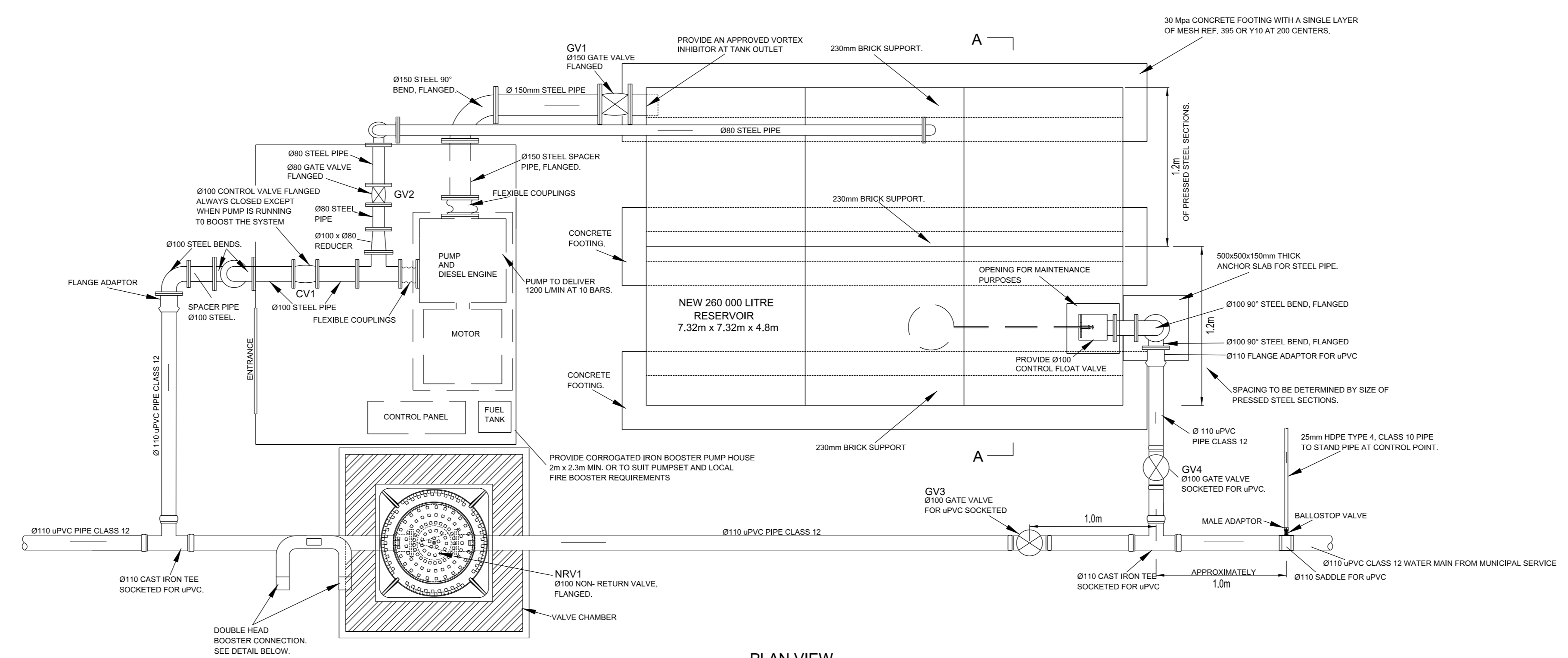
LEPHALE YARD

LEPHALE NSF YARD
 WATERBERG - STAGE 3
 DETAILS - WATER STORAGE TANK

PROJECT NUMBER	OD	FBS	DES	TYPE	DRAWING NO.	SHEET	REV	ID
A03	4	2	4	3	0	2	4	1



ELEVATION
RESERVOIR AND PIPE LAYOUT FOR BULK WATER SUPPLY (DOMESTIC WATER)
SCALE
NTS



PLAN VIEW
RESERVOIR AND PIPE LAYOUT FOR BULK WATER SUPPLY (DOMESTIC WATER)
SCALE
NTS

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1	ISSUED FOR SQUAD CHECK	SM	JB		18-10-2017

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				JB	16 10 17
				SM	16 10 17
				JB	16 10 17

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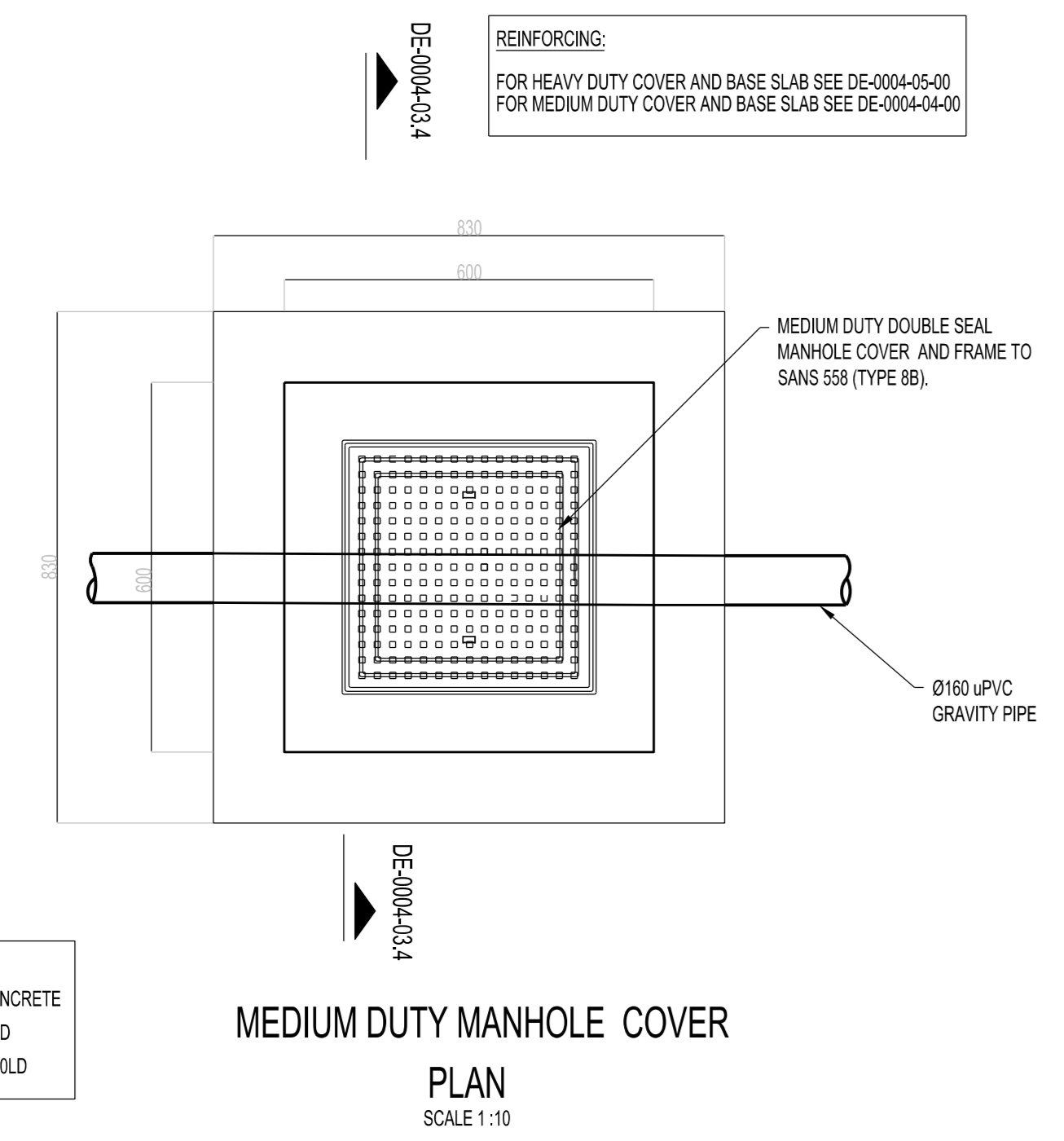
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LEPHALE YARD

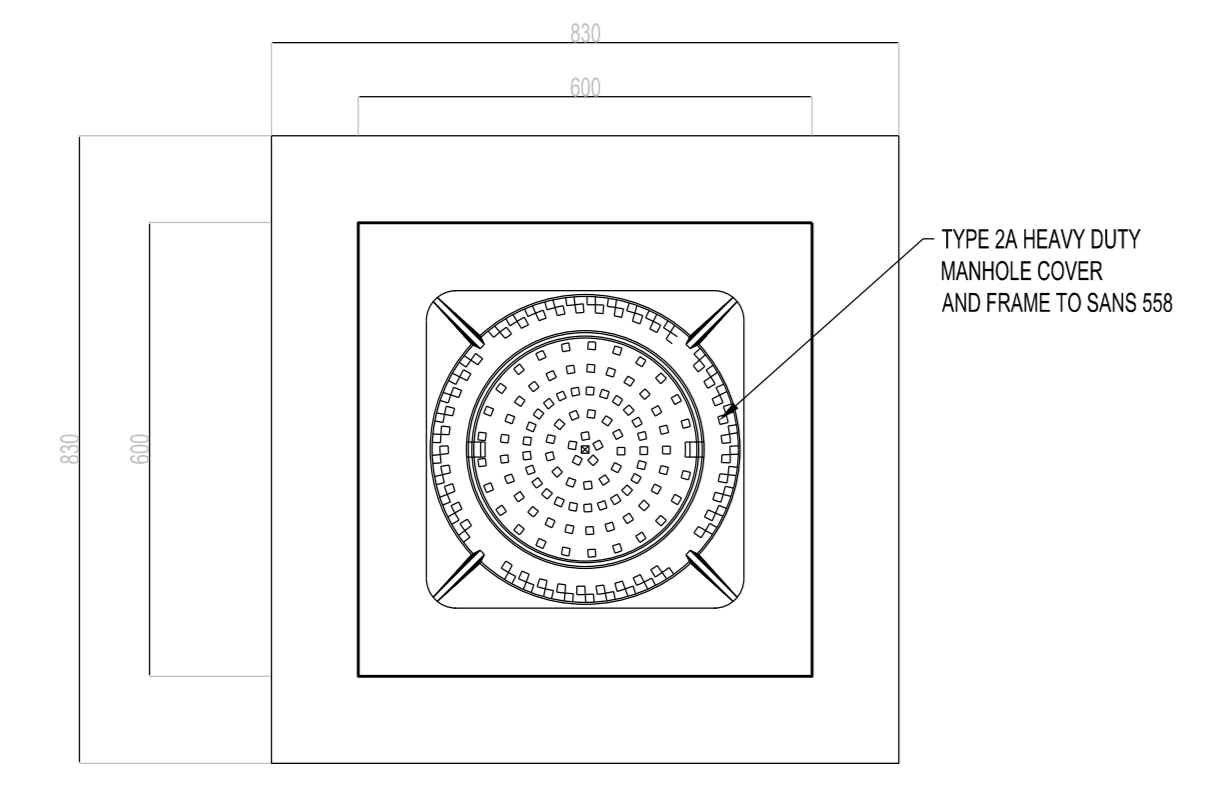
LEPHALE NSF YARD
 WATERBERG - STAGE 3
 DETAILS - WATER STORAGE TANK

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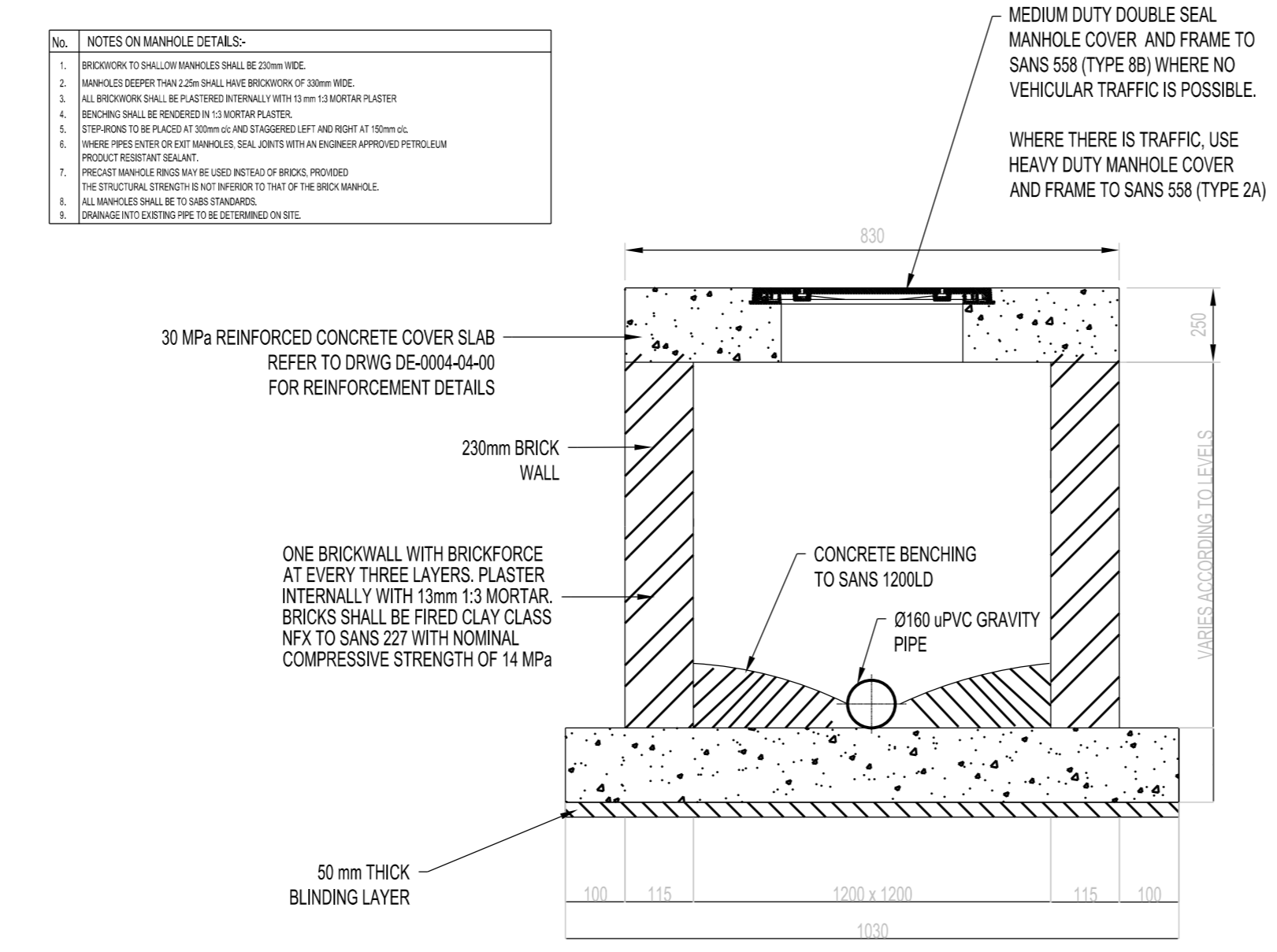


DE-0004-03.4
MEDIUM DUTY MANHOLE COVER
PLAN
SCALE 1:10

NOTE:
300Pa REINFORCED CONCRETE
MANHOLE CHAMBER AND
BENCHING TO SANS 1200LD

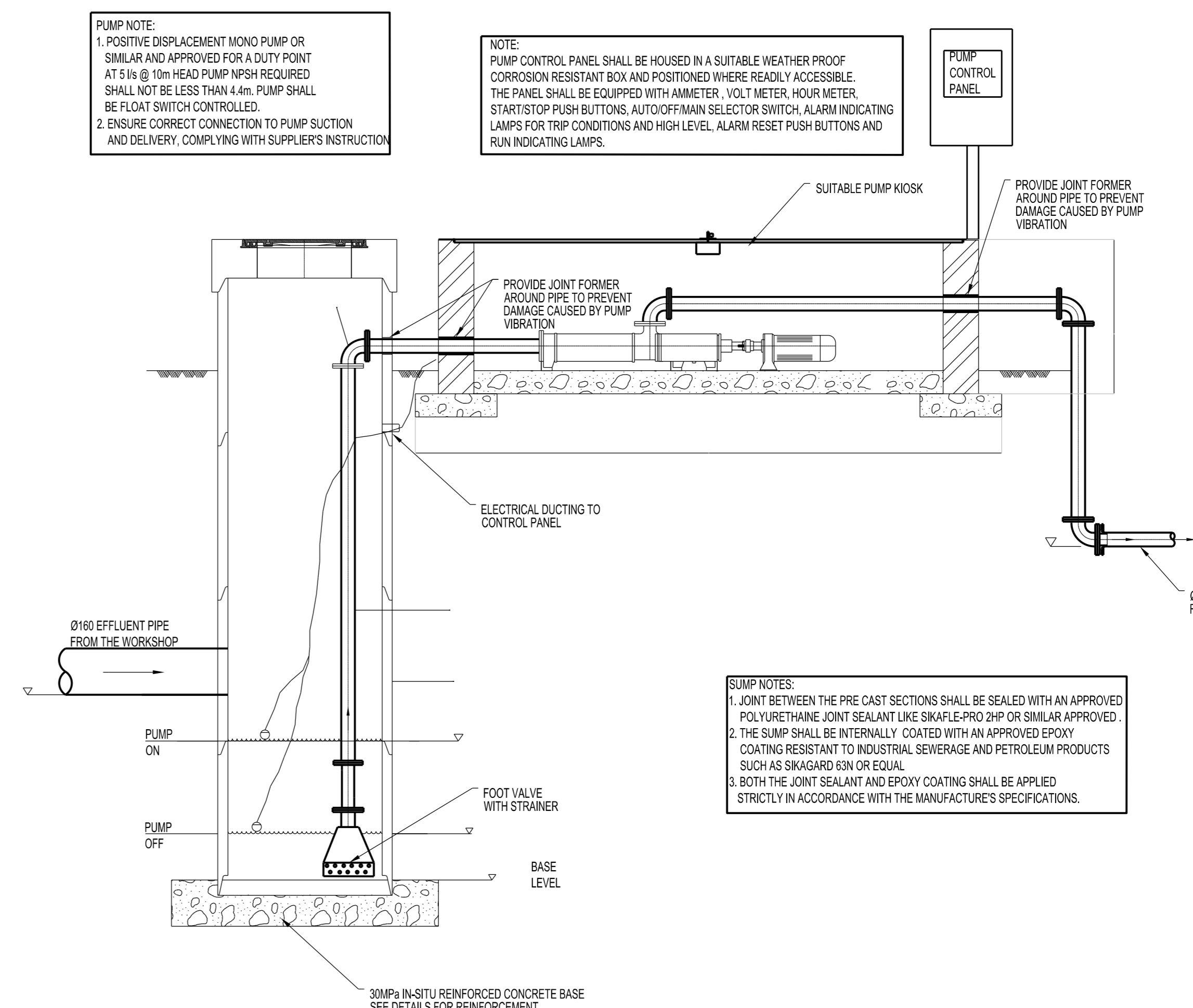


DE-0004-03.4
HEAVY DUTY MANHOLE COVER
PLAN
SCALE 1:10



DE-0004-03.4
SCALE 1:10

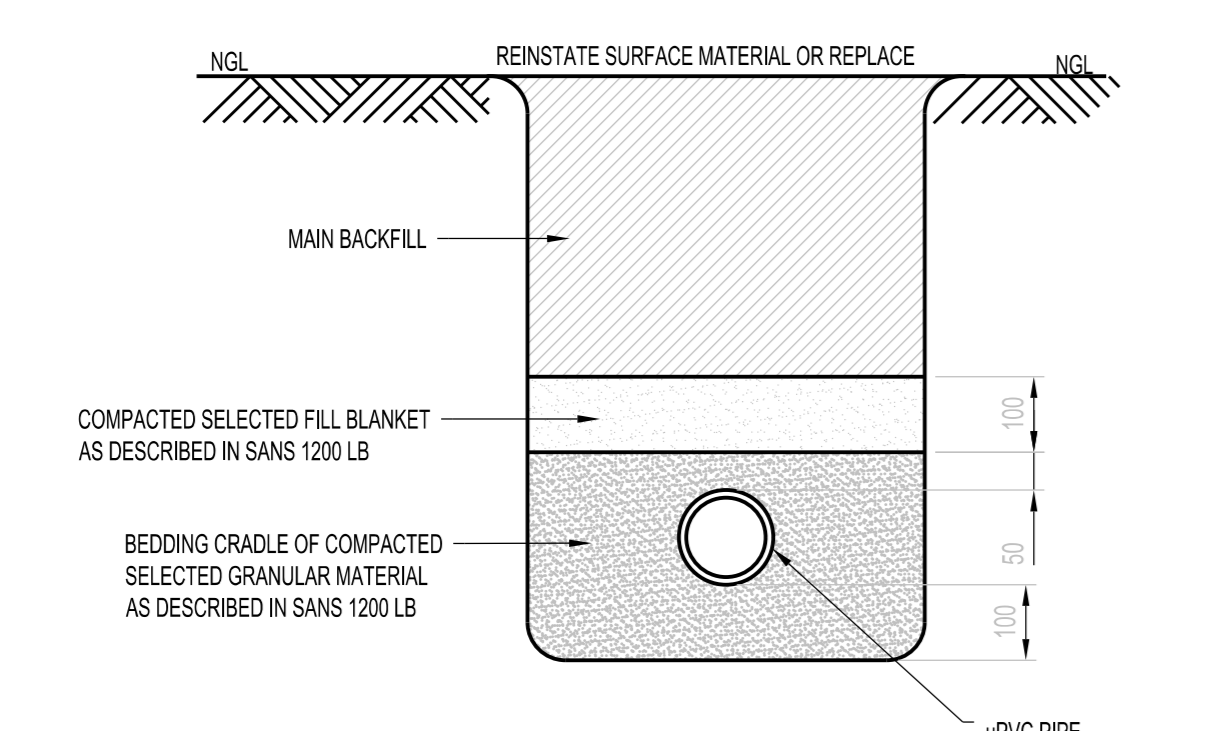
NOTES ON MANHOLE DETAILS:
1. APPROVED TO THE LATEST MANHOLE COVER AND FRAME TO SANS 558 (TYPE 8E) WHERE NO VEHICULAR TRAFFIC IS POSSIBLE.
2. APPROVED TO THE LATEST MANHOLE COVER AND FRAME TO SANS 558 (TYPE 2A) WHERE VEHICULAR TRAFFIC IS POSSIBLE.
3. APPROVED TO THE LATEST MANHOLE COVER AND FRAME TO SANS 558 (TYPE 2A) WHERE VEHICULAR TRAFFIC IS POSSIBLE.
4. APPROVED TO THE LATEST MANHOLE COVER AND FRAME TO SANS 558 (TYPE 2A) WHERE VEHICULAR TRAFFIC IS POSSIBLE.
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8. APPROVED TO THE LATEST MANHOLE COVER AND FRAME TO SANS 558 (TYPE 2A) WHERE VEHICULAR TRAFFIC IS POSSIBLE.
9. APPROVED TO THE LATEST MANHOLE COVER AND FRAME TO SANS 558 (TYPE 2A) WHERE VEHICULAR TRAFFIC IS POSSIBLE.
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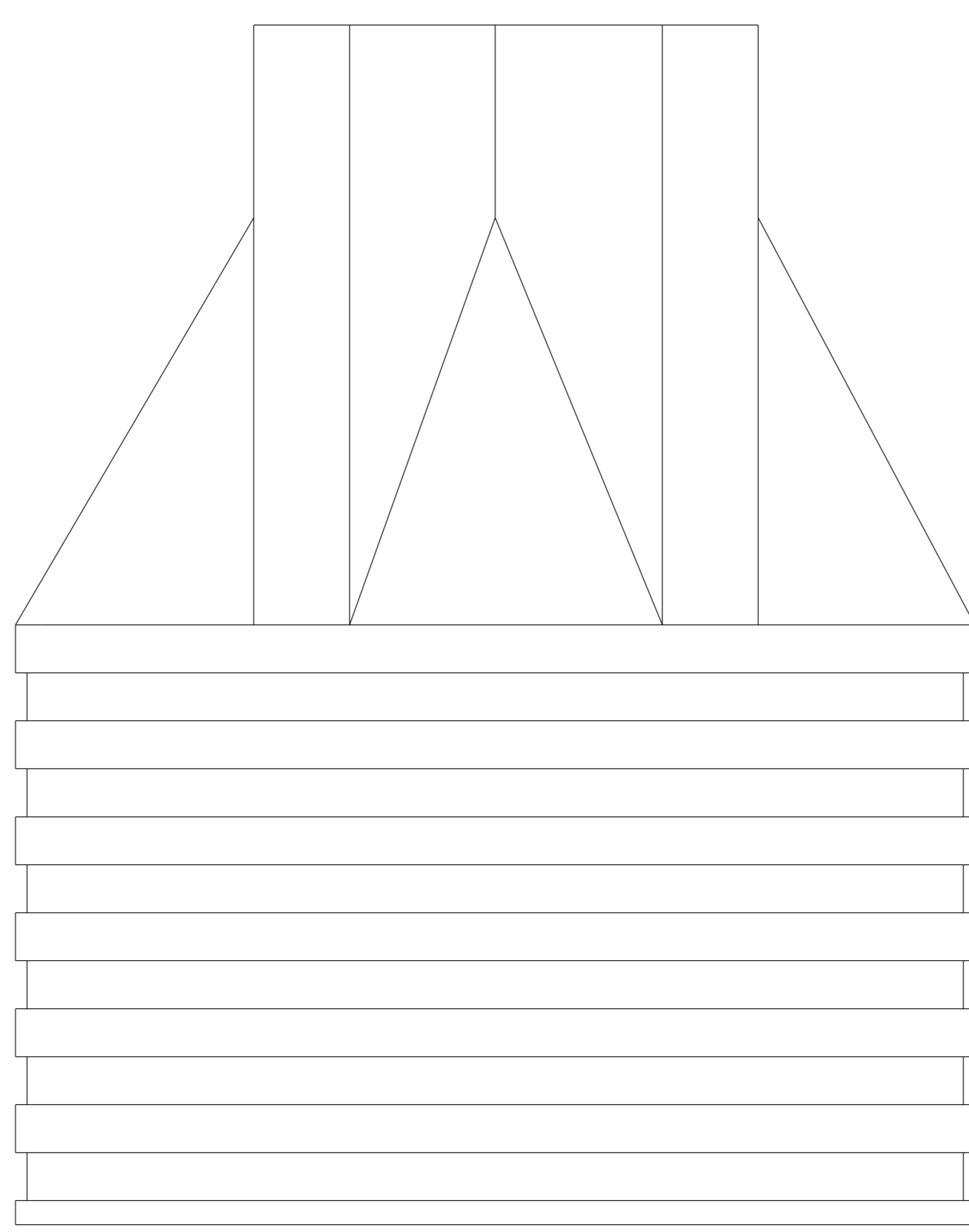
DE-0004-03.3
SCALE 1:25

PUMP NOTES:
1. POSITIVE DISPLACEMENT (MOMO) PUMP OR SIMILAR AND APPROVED FOR A DUTY POINT AT 5m @ 15m HEAD PUMP WPS REQUIRED. PUMP SHALL BE FLUID SWITCH CONTROLLED.
2. ENSURE CORRECT CONNECTION TO PUMP SUCTION AND DELIVERY, COMPLYING WITH SUPPLIER'S INSTRUCTION.
NOTE: PUMP CONTROL PANEL SHALL BE HOUSED IN A SUITABLE WEATHER PROOF CORROSION RESISTANT BOX AND POSITIONED WHERE READILY ACCESSIBLE. THE PANEL SHALL BE EQUIPPED WITH AMMETER, VOLT METER, HOUR METER, START/STOP PUSH BUTTONS, AUTO-OFF/ON SELECTOR SWITCH, ALARM INDICATING LAMPS FOR TRIP CONDITIONS AND HIGH LEVEL, ALARM RESET PUSH BUTTONS AND RUN INDICATING LAMPS.
NOTE: PUMP CONTROL PANEL SHALL BE HOUSED IN A SUITABLE WEATHER PROOF CORROSION RESISTANT BOX AND POSITIONED WHERE READILY ACCESSIBLE. THE PANEL SHALL BE EQUIPPED WITH AMMETER, VOLT METER, HOUR METER, START/STOP PUSH BUTTONS, AUTO-OFF/ON SELECTOR SWITCH, ALARM INDICATING LAMPS FOR TRIP CONDITIONS AND HIGH LEVEL, ALARM RESET PUSH BUTTONS AND RUN INDICATING LAMPS.
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SEWER / EFFLUENT
MANHOLE DETAILS



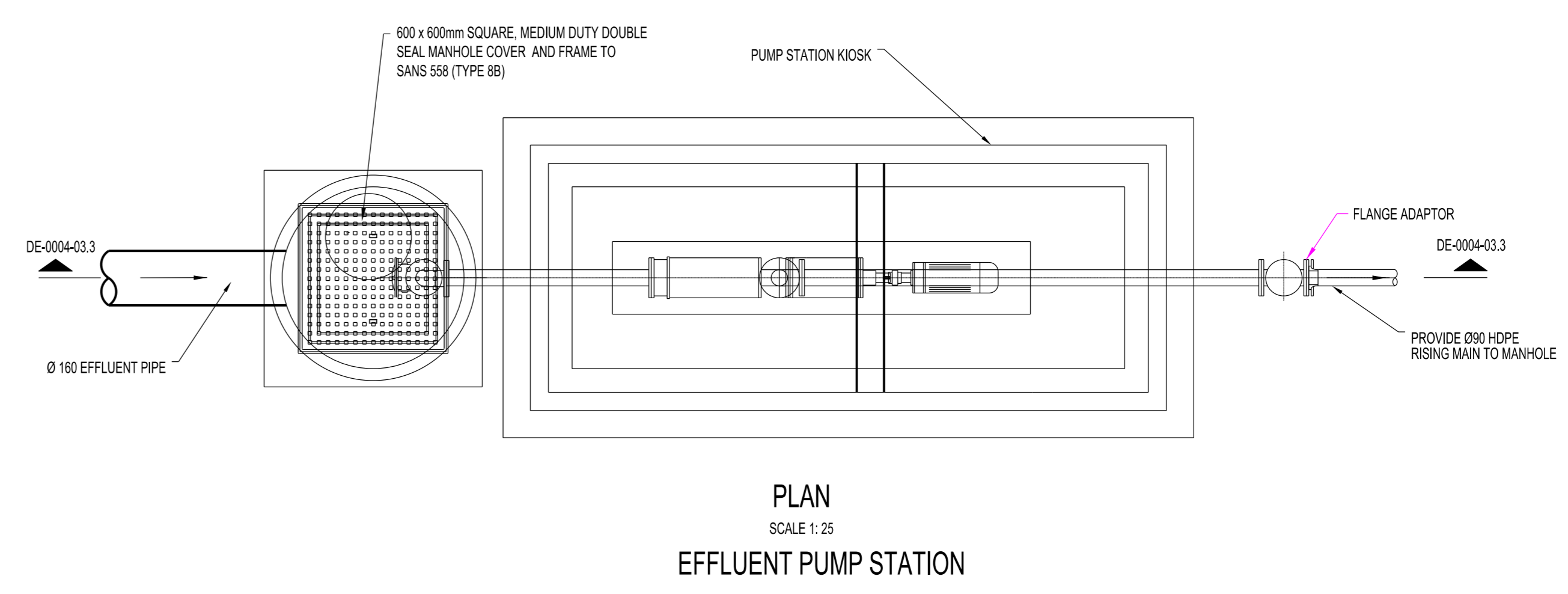
DETAIL 0004-03.A (FLEXIBLE PIPE BEDDING DETAILS)
SCALE 1:10
CLASS BEDDING DETAIL TO SANS 1200Lb-2



DIMENSIONS: 12500 LITRE TANK		
DIAMETER	HEIGHT	LID
2800mm	2500mm	450mm

DIMENSIONS: 5000 LITRE TANK			
LENGTH	WIDTH	HEIGHT	LID
2200mm	2380mm	1280mm	450mm

12500 LITRE CONSERVANCY TANK
SCALE 1:10



DE-0004-03.3
PLAN
SCALE 1:25
EFFLUENT PUMP STATION

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 - STRUCTURAL LOADINGS: NR RAIL LOADING CODE (TRANSNET BRIDGE CODE)
 - CHARACTERISTIC STRENGTHS:
CONCRETE:
BLINDING LAYER: 15 MPa / 19mm
HEAD WALLS / WING WALLS: 40 MPa / 19mm
STEEL REINFORCEMENT TO SANS 920-1985
HIGH TENSILE STEEL WITH STRENGTH: 450 MPa

- CONCRETE COVER : 50mm
- ALL EXPOSED SHARP EDGES TO HAVE 20 x 20 mm CHAMFERS
- FORMWORK AND SURFACE FINISH FORMED SURFACE:
a) VISIBLE SURFACE : SMOOTH
b) UNEXPOSED SURFACE : ROUGH
c) TOP OF HEAD WALLS : WOOD FLOATED

CONTRACTOR / CONSULTANT				TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SKIN	DATE	TITLE	NAME	SKIN	DATE
				DRAWN	TM		27 10 17
				CHECKED	JB		27 10 17
				DESIGNED	TM		27 10 17
				CHECKED	JB		27 10 17

OPERATING DIVISIONS			
TITLE	NAME	SKIN	DATE

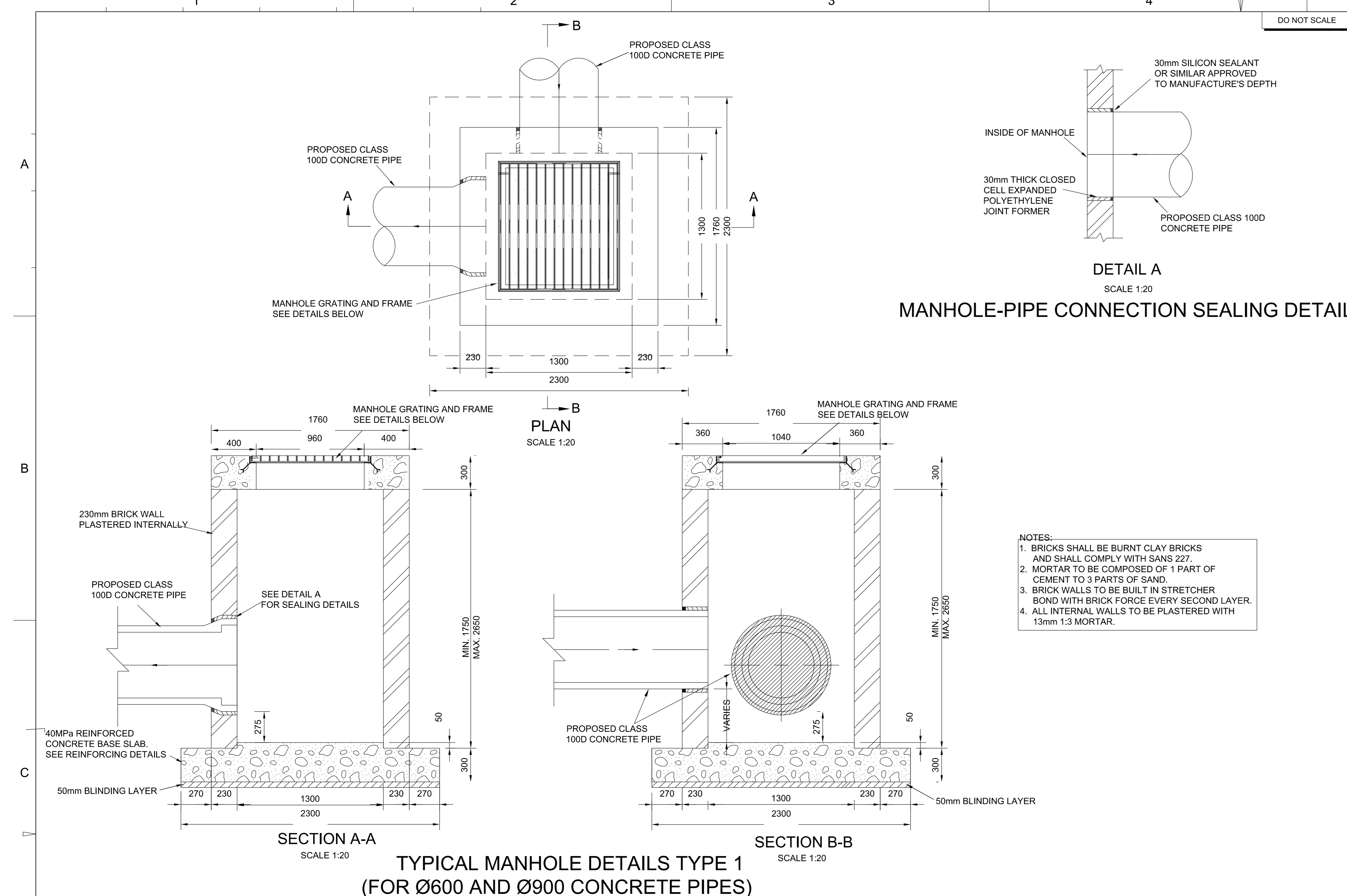
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150 COMMISSIONER STREET
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PYRAMID SOUTH - LEPHALALE
LEPHALE NSF YARD
WATERBERG STAGE 3
DETAILS
MANHOLE, BEDDING, PUMP STATION & TANK

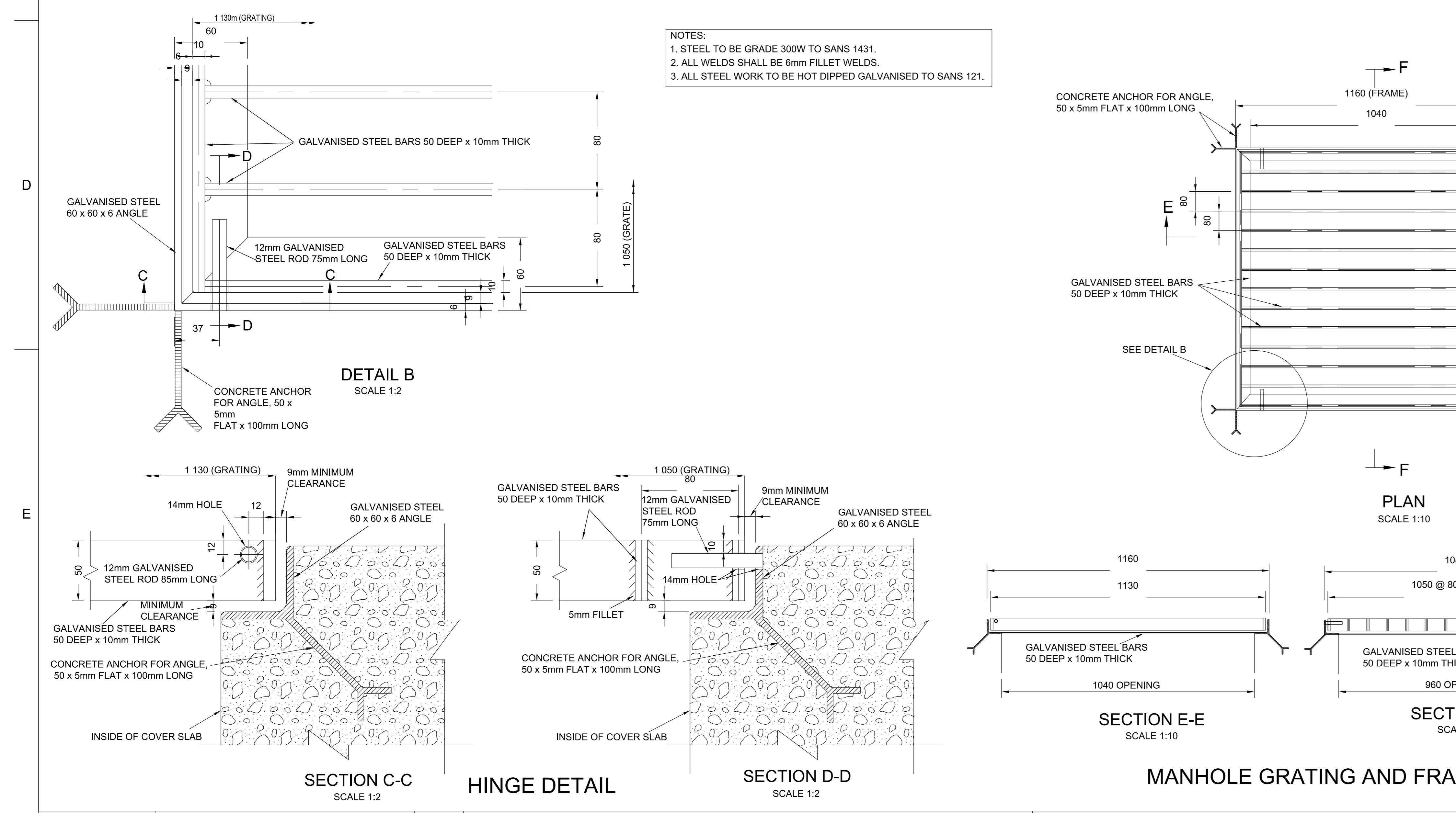
REVISIONS				
NO.	DESCRIPTION	BY	CHKD / APPD	DATE
2	ISSUED FOR CLIENT REVIEW	TM	JB	27/10/2017
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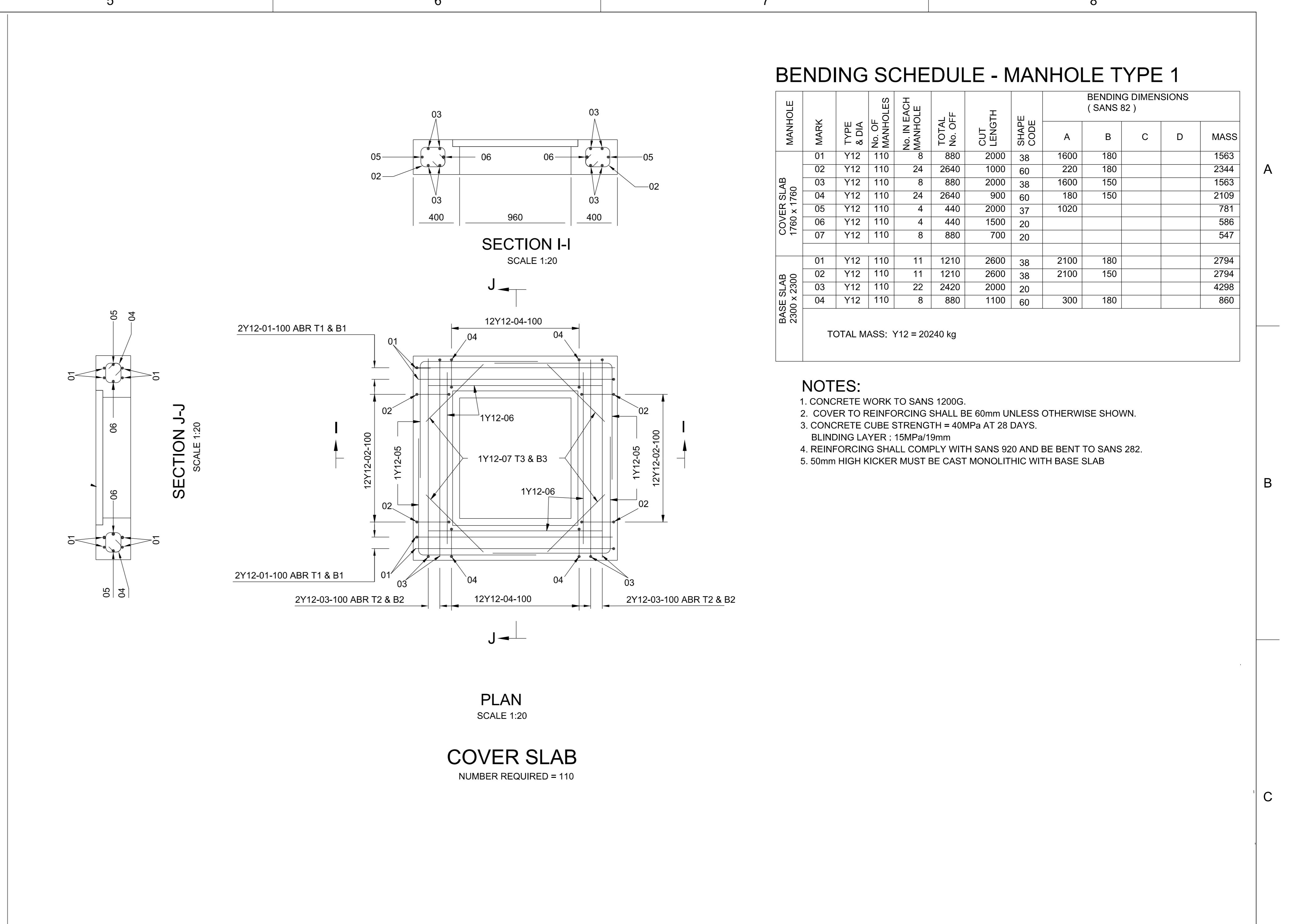
PROJECT NUMBER	OD	FBS	DNS	TYPE	DRAWING NO.	SHEET	REV	ID
4	2	4	1	A5	C	DE/0004	04	02



- NOTES:**
- BRICKS SHALL BE BURNT CLAY BRICKS AND SHALL COMPLY WITH SANS 227.
 - MORTAR TO BE COMPOSED OF 1 PART OF CEMENT TO 3 PARTS OF SAND.
 - BRICK WALLS TO BE BUILT IN STRETCHER BOND WITH BRICK FORCE EVERY SECOND LAYER.
 - ALL INTERNAL WALLS TO BE PLASTERED WITH 13mm 1:3 MORTAR.



- NOTES:**
- STEEL TO BE GRADE 300W TO SANS 1431.
 - ALL WELDS SHALL BE 6mm FILLET WELDS.
 - ALL STEEL WORK TO BE HOT DIPPED GALVANISED TO SANS 121.



BENDING SCHEDULE - MANHOLE TYPE 1
(SANS 82)

MANHOLE	MARK	TYPE & DIA	No. OF MANHOLES	No. IN EACH MANHOLE	TOTAL No. OFF	CUT LENGTH	SHAPE CODE	BENDING DIMENSIONS (SANS 82)				
								A	B	C	D	MASS
COVER SLAB 1700 x 1700	01	Y12 110	8	880	2000	38	1600	180				1563
	02	Y12 110	24	2640	1000	60	220	180				2344
	03	Y12 110	8	880	2000	38	1600	150				1563
	04	Y12 110	24	2640	900	60	180	150				2169
	05	Y12 110	4	440	2000	37	1020					781
	06	Y12 110	4	440	1500	20						586
	07	Y12 110	8	880	700	20						547
BASE SLAB 2300 x 2300	01	Y12 110	11	1210	2600	38	2100	180				2794
	02	Y12 110	11	1210	2600	38	2100	150				2794
	03	Y12 110	22	2420	2000	20						4298
	04	Y12 110	8	880	1100	60	300	180				860
TOTAL MASS: Y12 = 20240 kg												

- NOTES:**
- CONCRETE WORK TO SANS 1200G.
 - COVER TO REINFORCING SHALL BE 80mm UNLESS OTHERWISE SHOWN.
 - CONCRETE CUBE STRENGTH = 40MPa AT 28 DAYS.
 - BLINDING LAYER: 15MPa/19mm
 - REINFORCING SHALL COMPLY WITH SANS 920 AND BE BENT TO SANS 282.
 - 50mm HIGH KICKER MUST BE CAST MONOLITHIC WITH BASE SLAB

NOTES:

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- SURVEY DATUM TO WGS84 AND mal.
- SURVEYOR MUST INSTALL PROFILE PEGS AT 10m INTERVALS ON VERTICAL CURVES AND STAKE TRANSITION CURVES AT 10m INTERVALS AS WELL.
- SURVEYOR MUST STAKE CIRCULAR CURVES SHORTER THAN 25m AT 10m INTERVALS.

REFERENCE DRAWINGS

DRAWING NO.	REFERENCE
3424302-4-1A1-C-LIS-0002-01 PHASE 2 - BULK EARTHWORKS & LAYERWORKS QUANTITIES	

REVISIONS

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
2	ISSUED FOR CLIENT REVIEW	SM	JB		25-10-2017
1	ISSUED FOR SQUAD CHECK	SM	JB		25-10-2017

CONTRACTOR / CONSULTANT

TITLE	NAME	SIGN	DATE
DESIGNED	SM		25-10-17
CHECKED	JB		19-10-17
DESIGNED	SM		25-10-17
CHECKED	JB		19-10-17

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE
PR. ENG. / PR. TECH. / PR. ARCH			

REVISIONS

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
1	ISSUED FOR CLIENT REVIEW	SM	JB		25-10-2017
1	ISSUED FOR SQUAD CHECK	SM	JB		25-10-2017

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LEPHALALE YARD

LEPHALALE NSF YARD

WATERBERG - STAGE 3

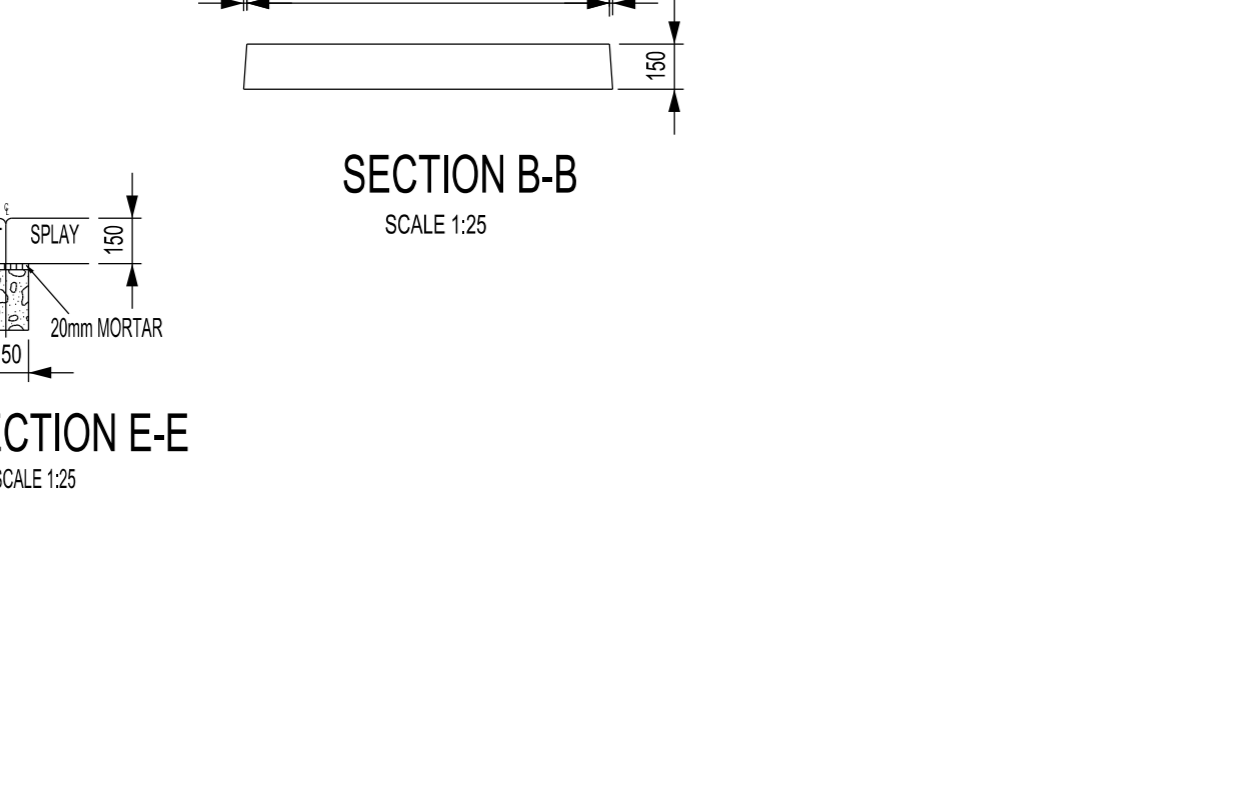
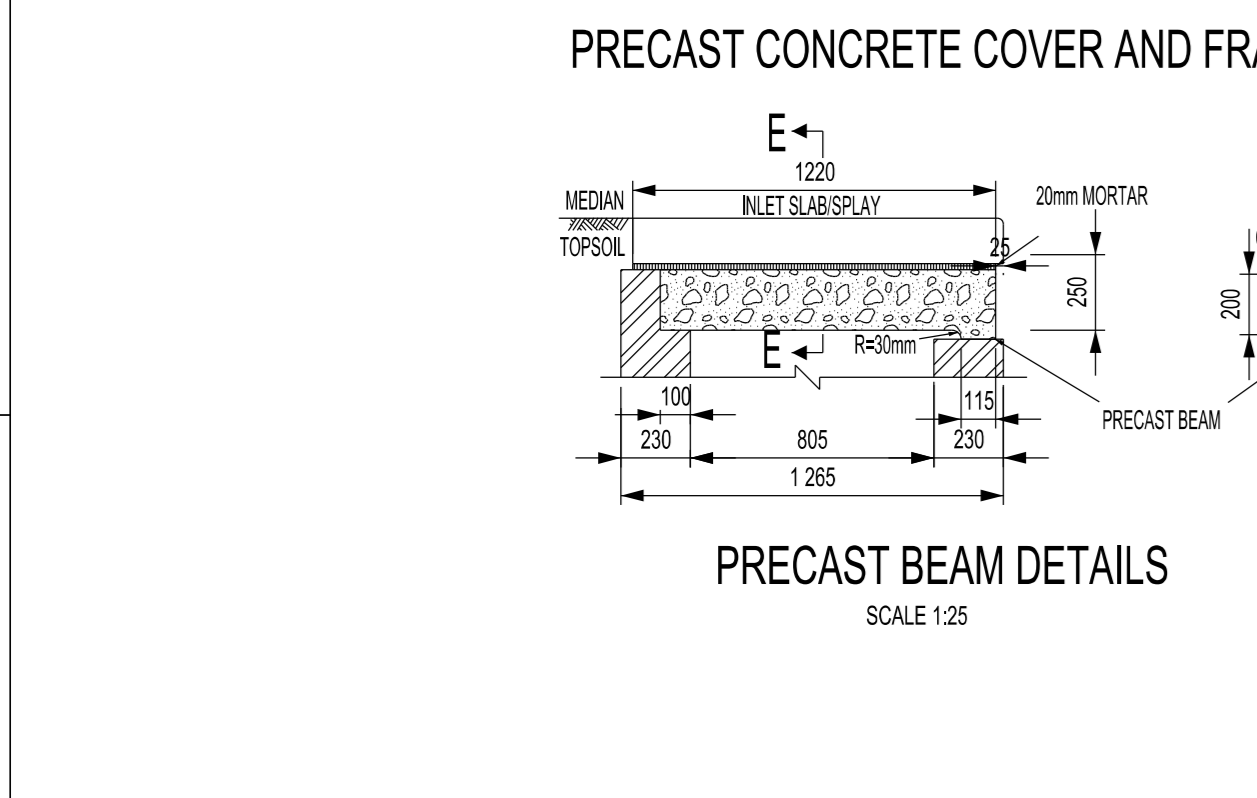
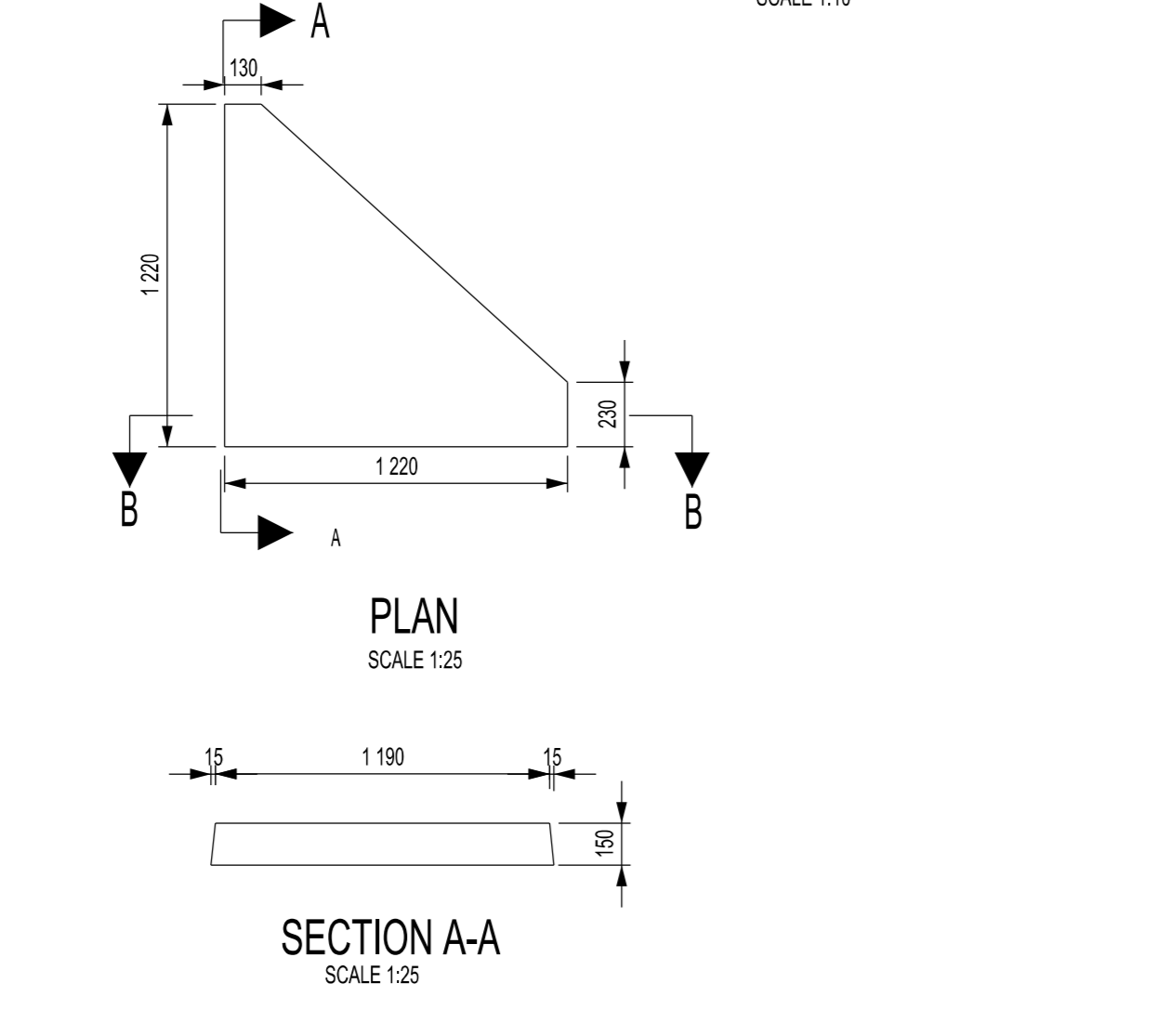
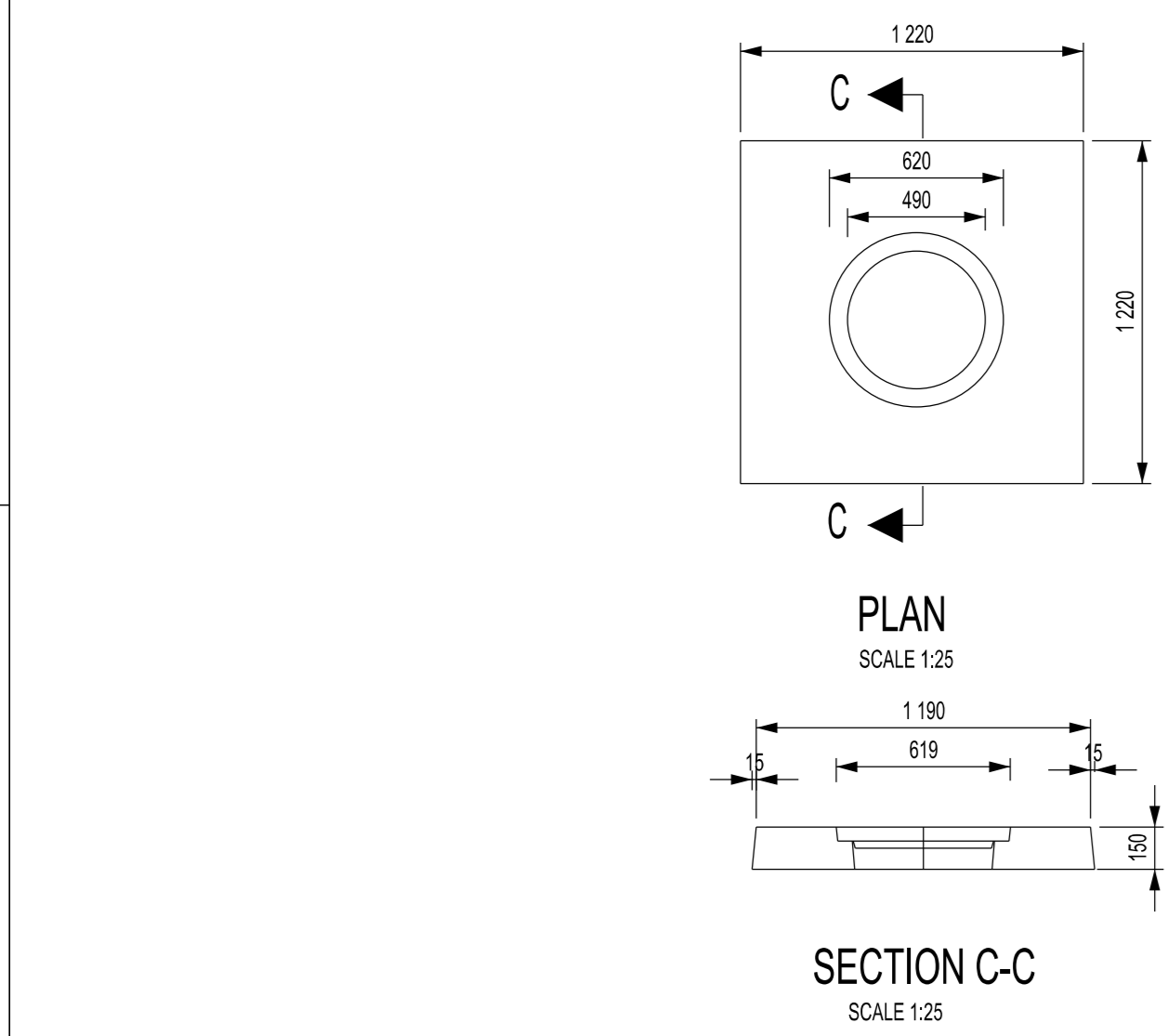
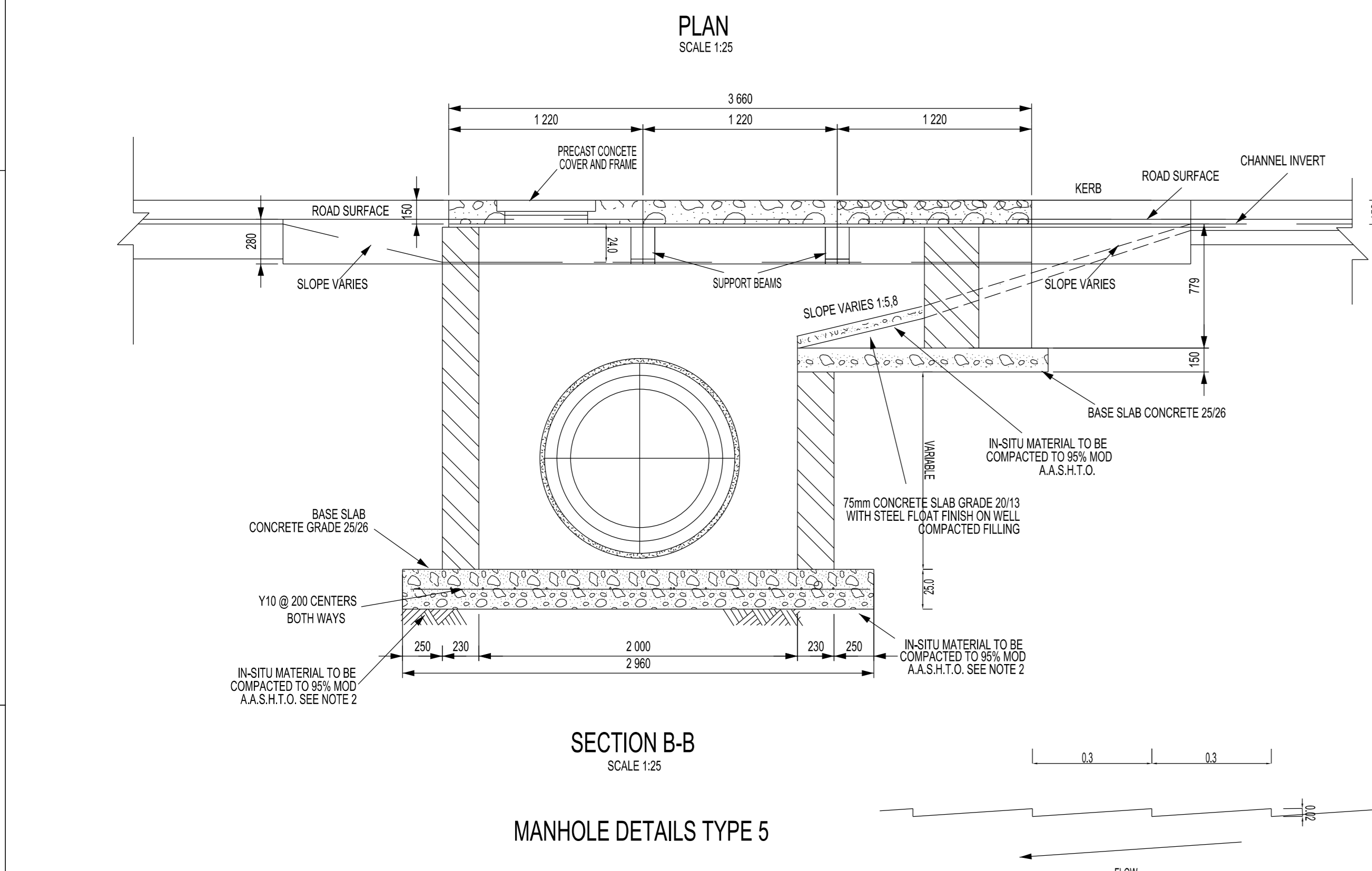
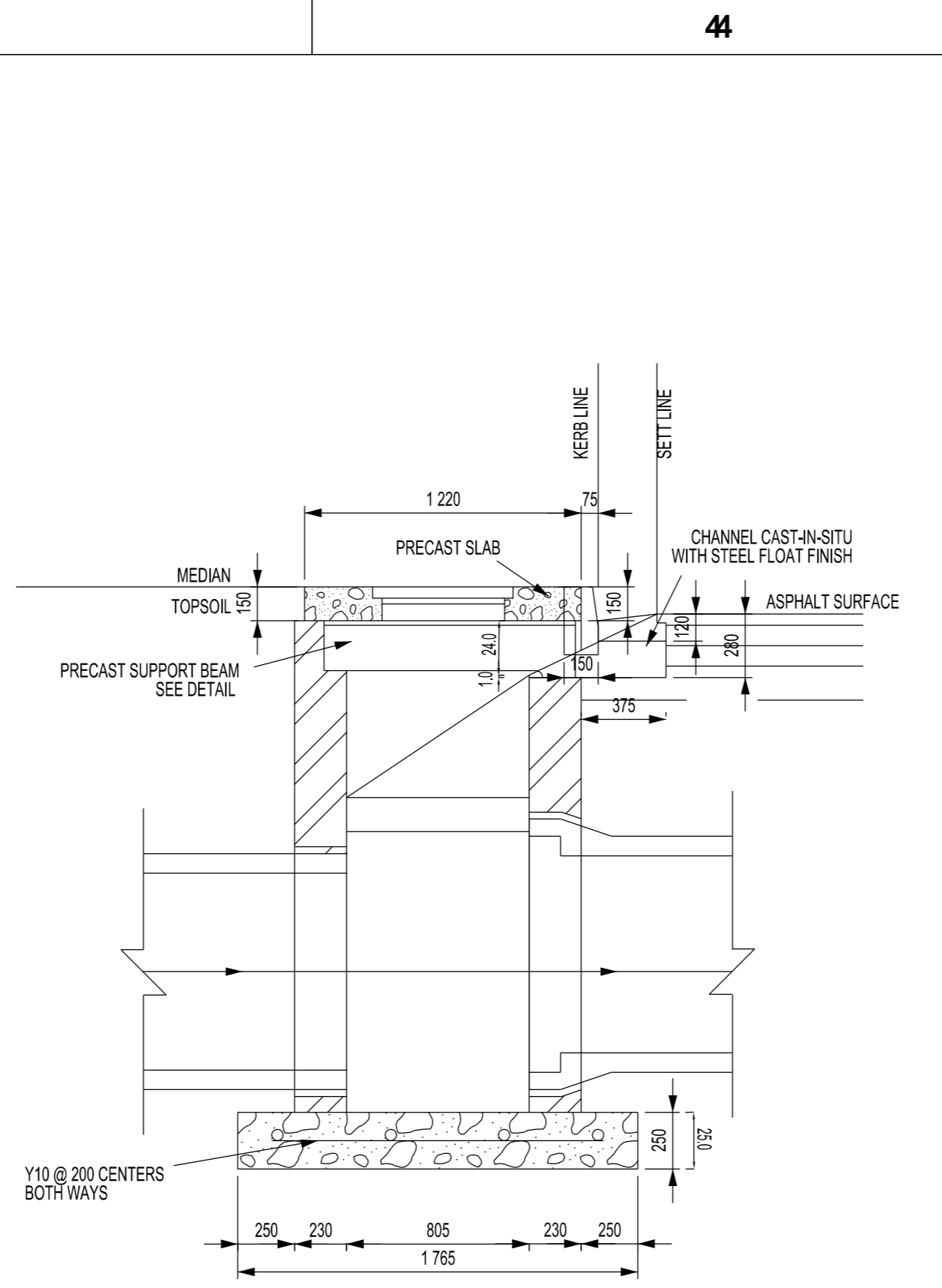
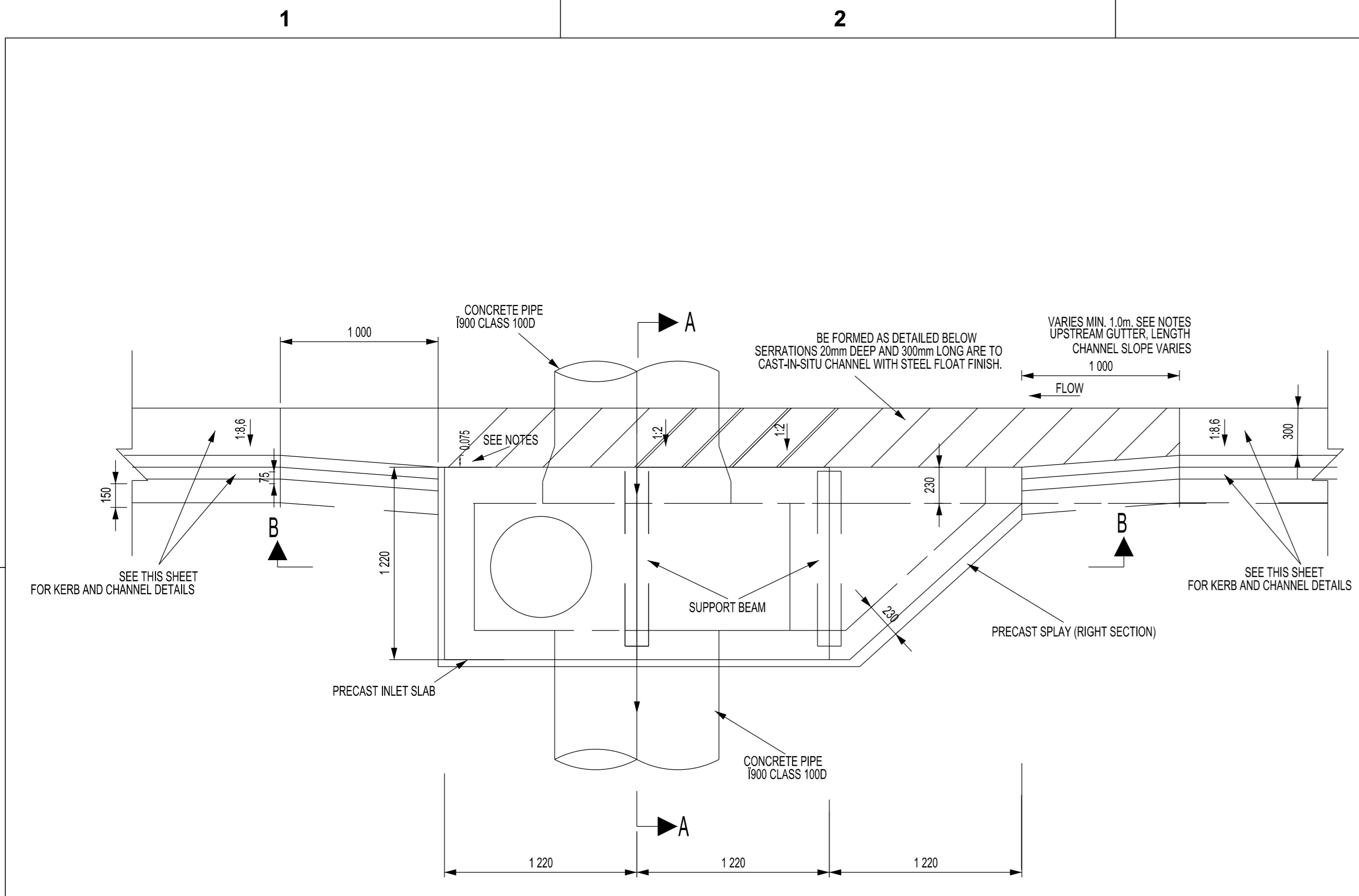
DETAILS - STORMWATER DRAINAGE

GRID INLET

TRANSNET

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 GARDEN CENTRE
 150 COMMISSIONER STREET
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 TEL: 011 308 3000
 FAX: 011 308 2315

PROJECT NUMBER 000
DIS 1
TYPE C
DRAWING NO. 01
SHEET 02
REV 2
ID SM



NOTES

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1	REFERENCE DRAWINGS

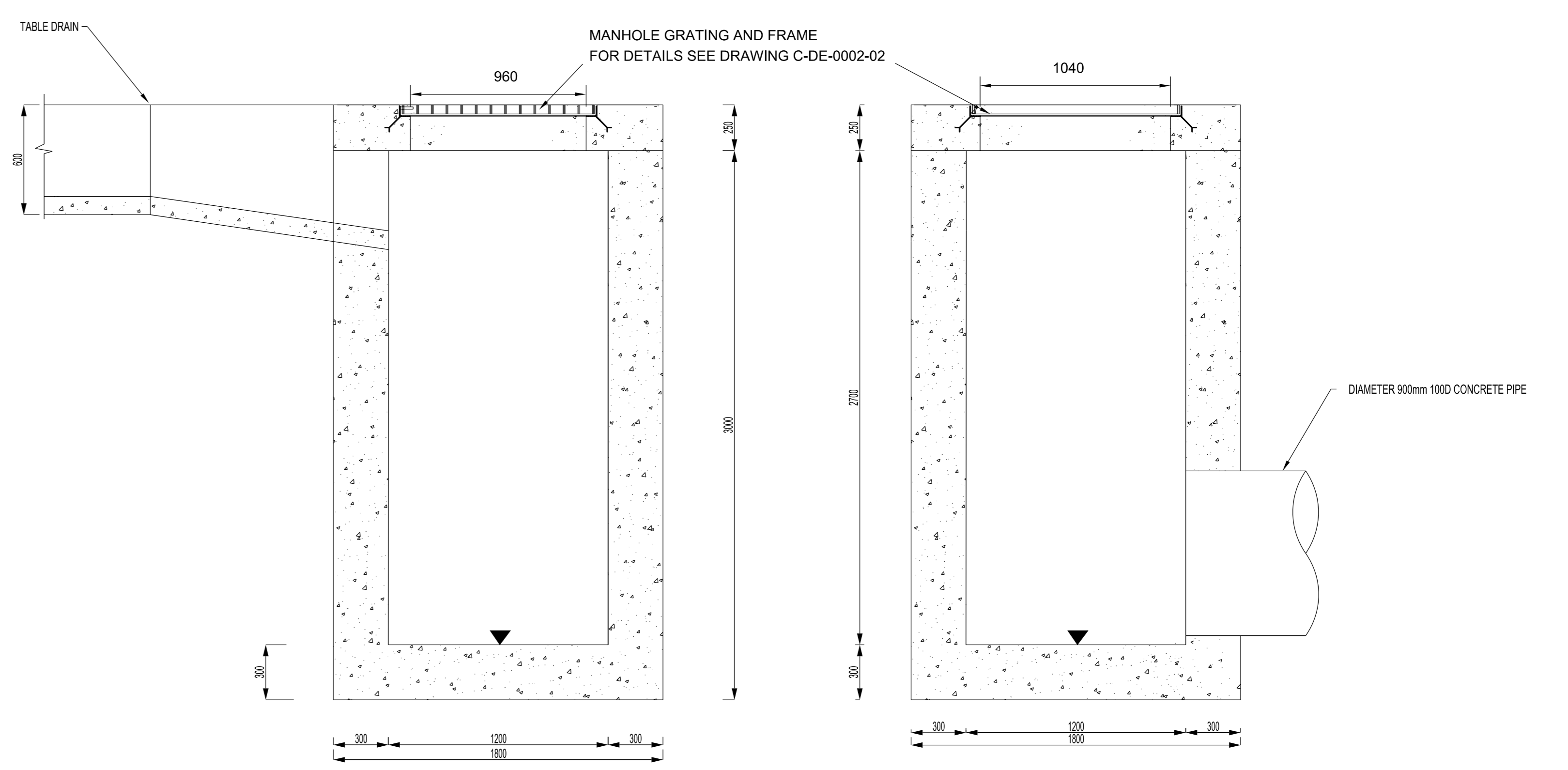
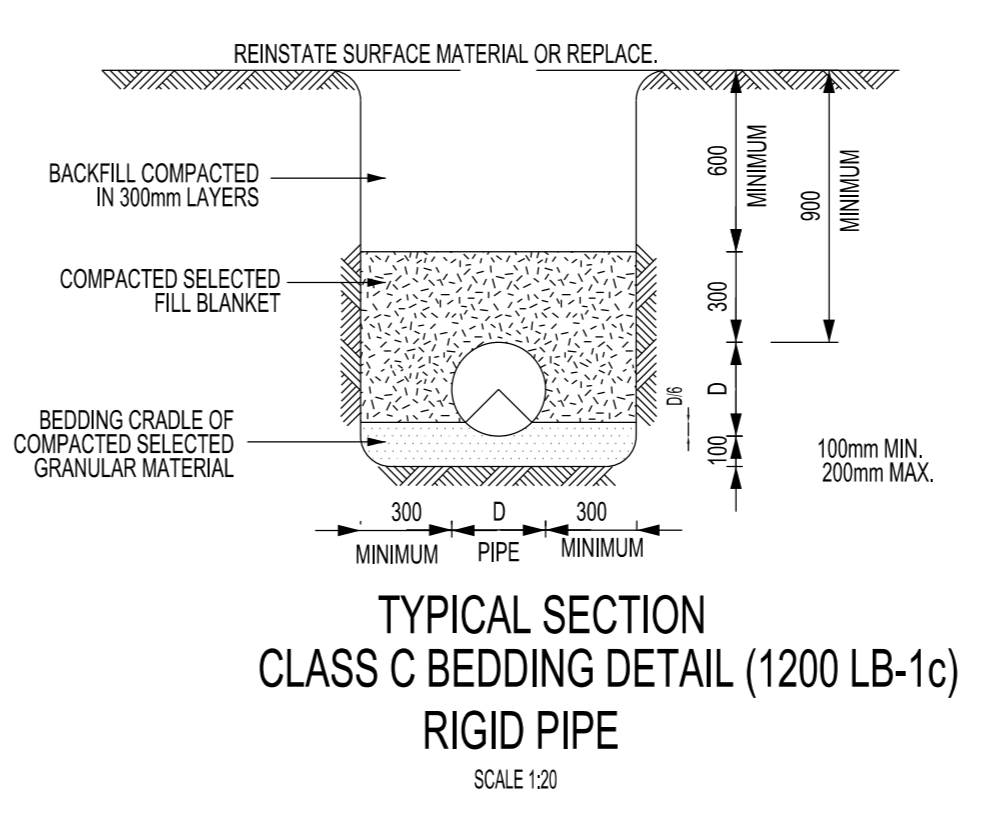
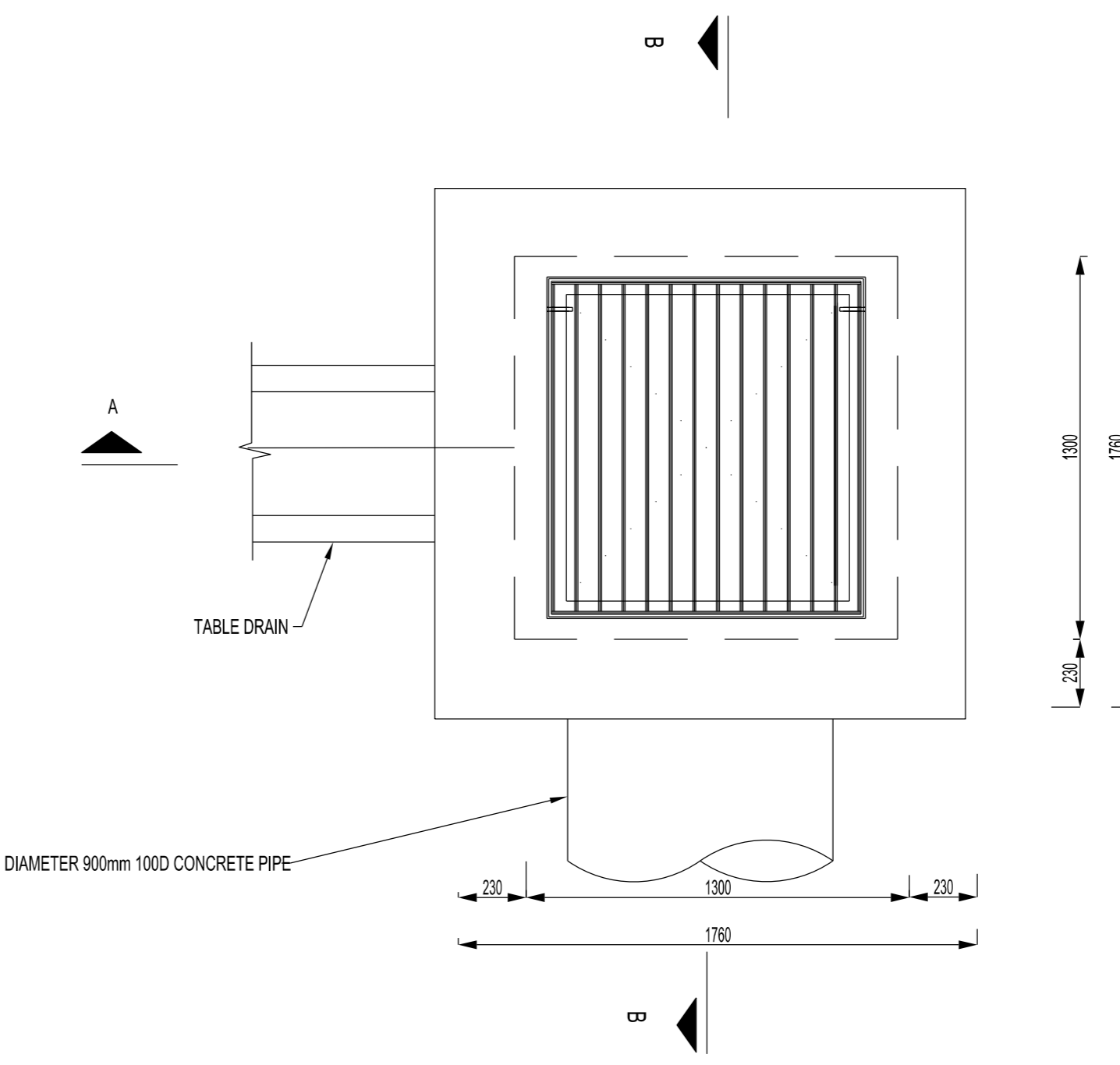


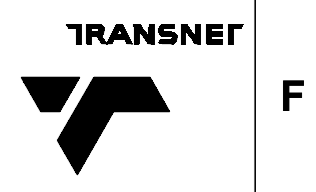
TABLE DRAIN MANHOLE



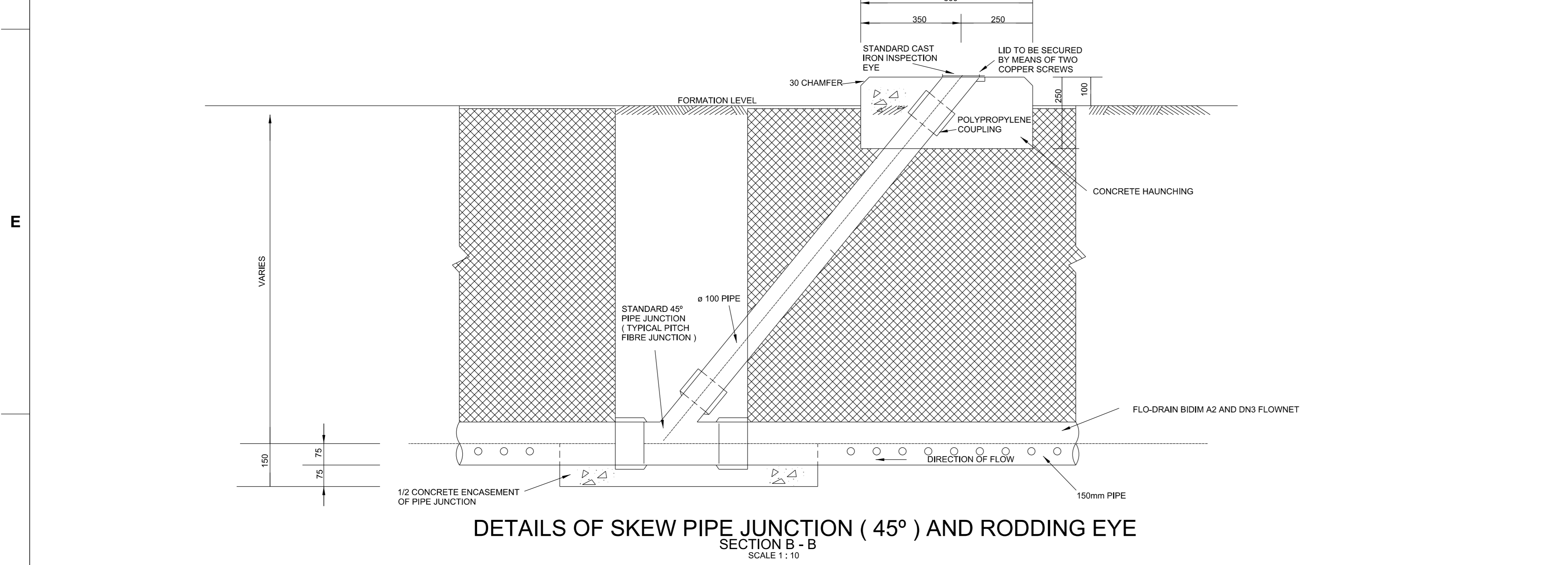
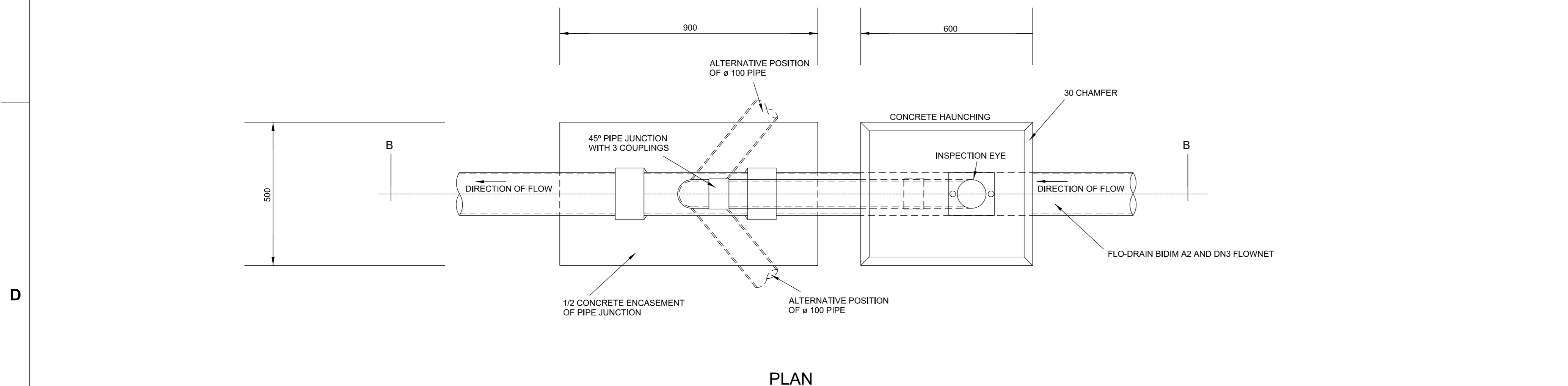
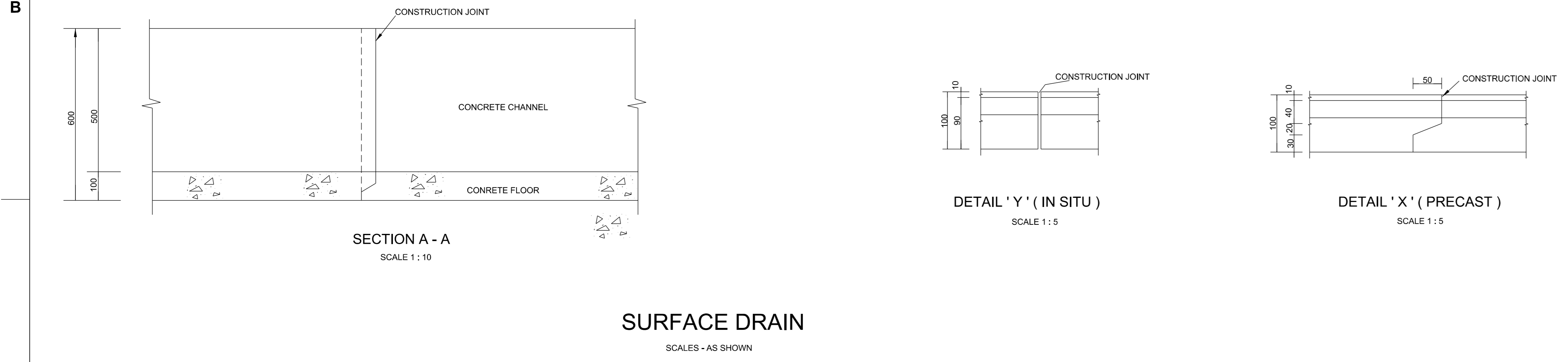
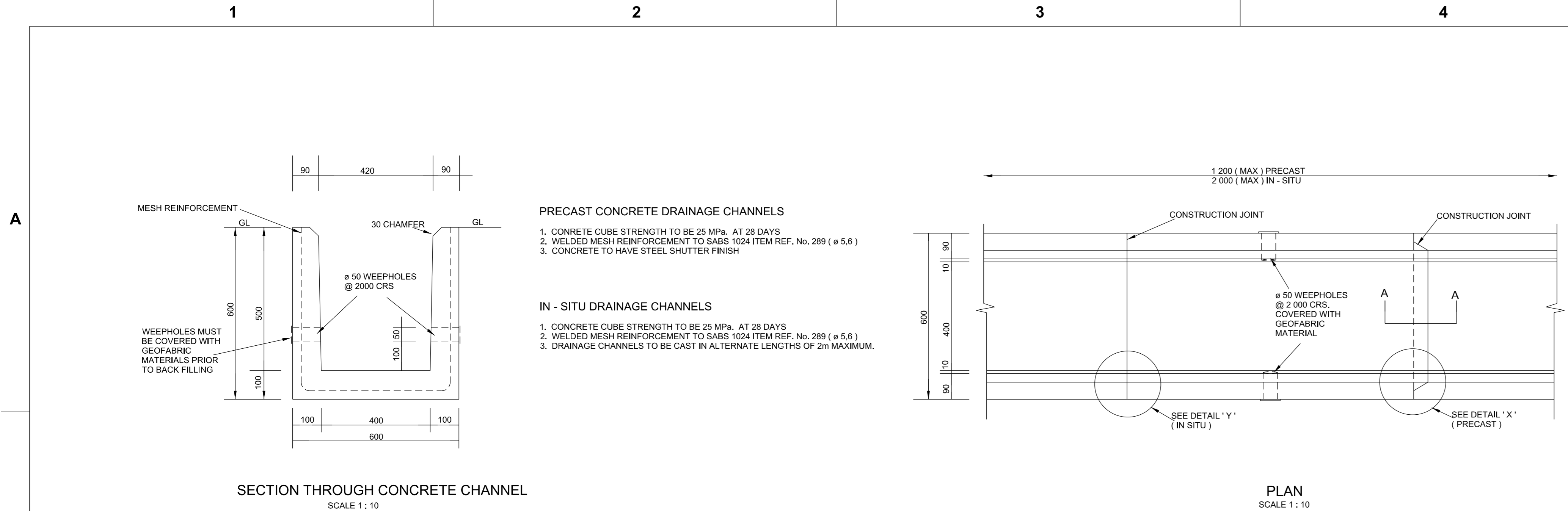
NOTES

- CATCHPIT FACE TO BE SET BACK 75mm FROM KERB LINE
- THE IN SITU GROUND MUST BE COMPACTED TO 95% MOD. A.A.S.H.T.O. PRIOR TO THE INLET BASE SLAB BEING CAST. IF THIS DENSITY CANNOT BE ATTAINED THE IN SITU MATERIAL MUST BE REMOVED TO A DEPTH OF 300mm AND REPLACED WITH A SELECTED BACKFILL.
- GUTTER LENGTHS: MINIMUM GUTTER LENGTHS OF 1.0m ARE TO BE PROVIDED ON THE UPSTREAM SIDE WHERE ADDITIONAL UPSTREAM LENGTHS ARE REQUIRED THIS WILL NOT BE INDICATED ON THE ROAD STORMWATER DRAWING. UPSTREAM GUTTER LENGTHS SHALL NOT BE LESS THAN THE FOLLOWING
- DOWN STREAM LENGTHS: CONSTANT LENGTH=1m

CONTRACTOR / CONSULTANT		TRANSNET CAPITAL PROJECTS		Transnet Capital Projects	
TITLE	NAME	SGN	DATE	TITLE	NAME
				DESIGNED	SM
				CHECKED	JB
				CHECKED	JB
				CHECKED	JB
OPERATING DIVISIONS					
TITLE	NAME	SGN	DATE	TITLE	NAME
				PR. ENG. / PR. TECH. / PR. ARCH	
				SIGNATURE	
				REG. NUMBER: 960398	
				SCALE:	
REVISIONS					
NO.	DESCRIPTION	BY	CHKD	APPD	DATE
2	ISSUED FOR CLIENT REVIEW	SM	JB		25/10/2017
1	ISSUED FOR SQUAD CHECK	SM	JB		25/10/2017
PROJECT INFORMATION					
PROJECT NUMBER	00	FBS	DIS	TYPE	DRAWING NO.
0A03	4	2	4	3	0102
SHEET	REV	ID			
01	1	2			



LEPHALALAE YARD
WATERBERG STAGE 3
STORMWATER DRAINAGE
KERB INLET DETAILS, PIPE BEDDING,
TABLE DRAIN DETAILS

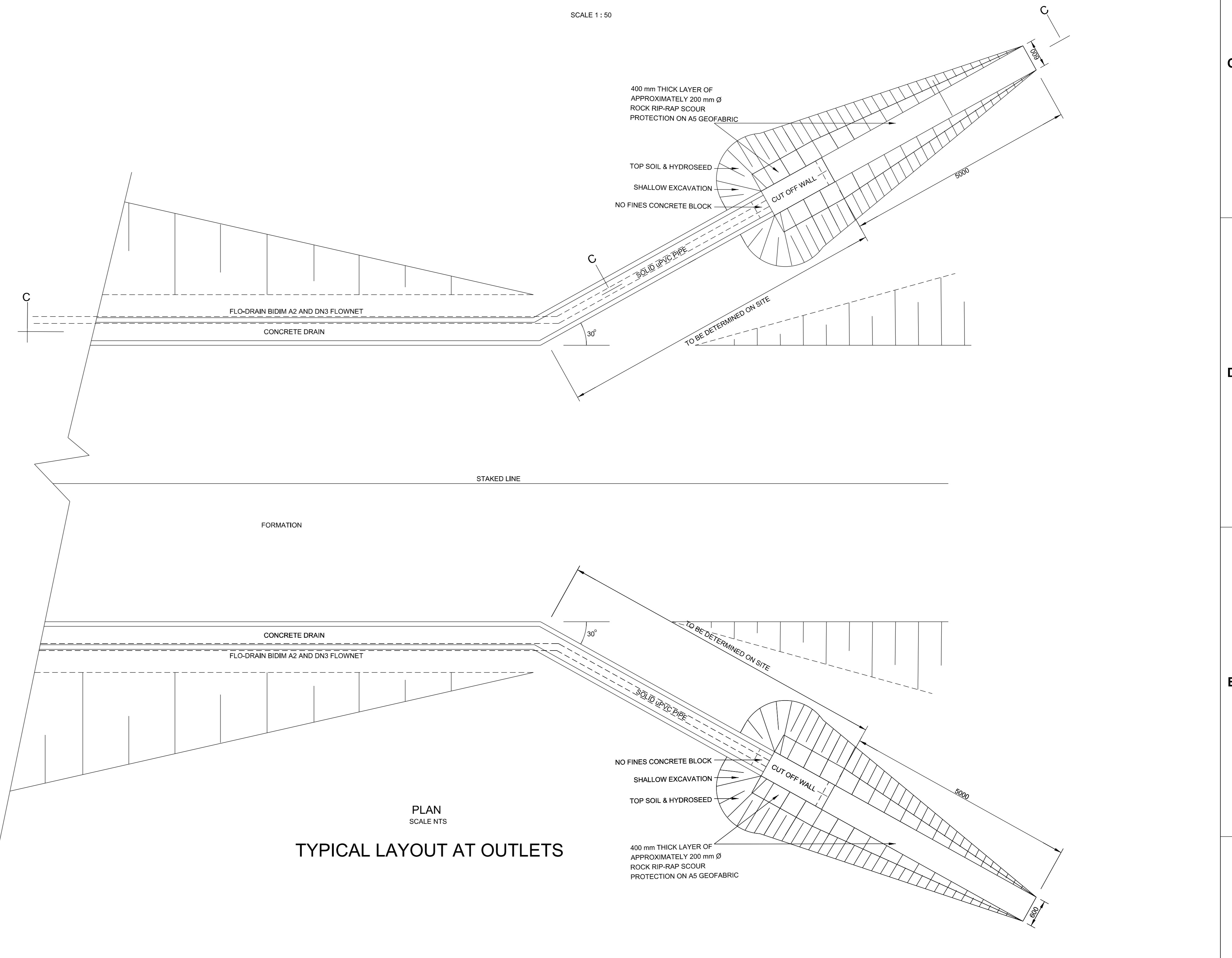
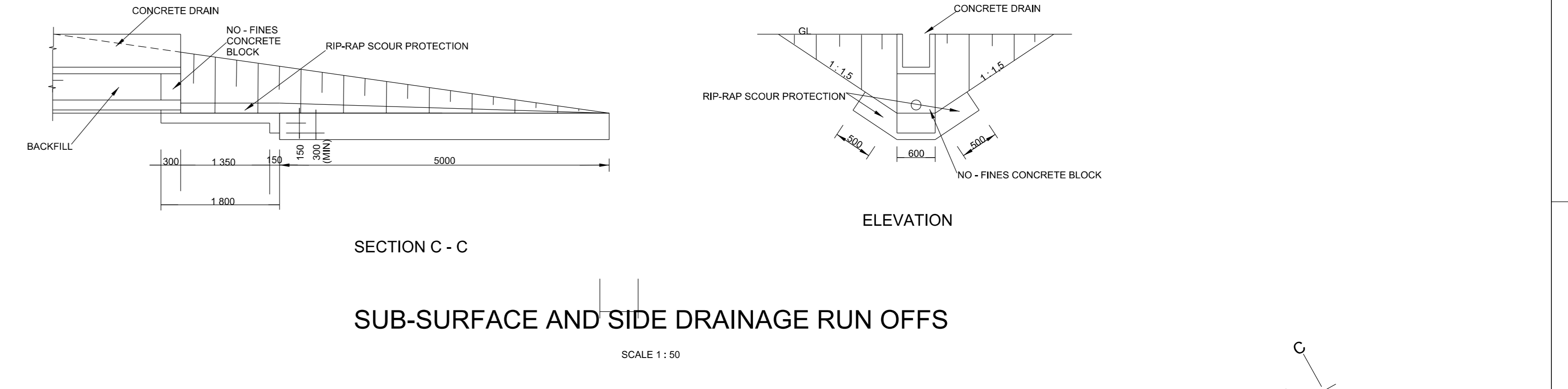
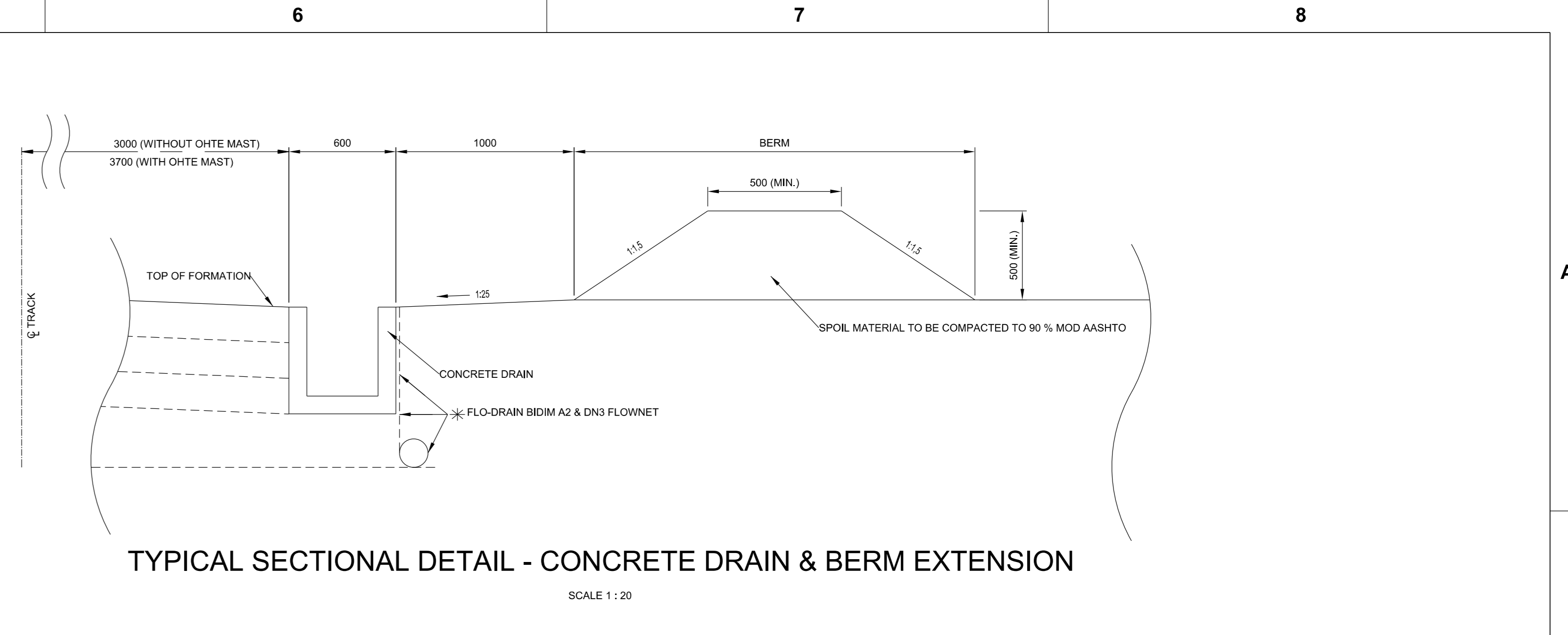


DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

NO.	DESCRIPTION	BY	CHKD	APPD	DATE

- NOTES**
- 1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
 - 2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON THE SITE AND NOTIFY THE NEC SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.
 - 3. LOCAL CHAINAGES GIVEN TO BE USED FOR CONSTRUCTION PURPOSES ONLY.
 - 4. SURVEY DATUM TO WGS84 AND msl.
 - 5. SURVEYOR MUST INSTALL PROFILE PEGS AT 10m INTERVALS ON VERTICAL CURVES AND STAKE TRANSITION CURVES AT 10m INTERVALS AS WELL.
 - 6. SURVEYOR MUST STAKE CIRCULAR CURVES SHORTER THAN 25m AT 10m INTERVALS.



CONTRACTOR / CONSULTANT		TRANSNET CAPITAL PROJECTS	
TITLE	NAME	NAME	DATE

OPERATING DIVISIONS

TITLE	NAME	SKN	DATE

REVISIONS

NO.	DESCRIPTION	BY	CHKD	APPD	DATE

TRANSNET CAPITAL PROJECTS
TRANSNET (P) LTD (TRADING AS TRANSNET CAPITAL PROJECTS) REG. NO. 19608080030
CANTON CENTRE
150 COMMISSIONER STREET
JOHANNESBURG 2001
TEL: 011 308 3000
FAX: 011 308 2315

PYRAMID SOUTH - LEPHALALE

LEPHALALE NSF YARD WATERBERG - STAGE 3
TYPICAL DETAIL
EARTHWORKS & DRAINAGE

PROJECT NUMBER	OD	FBS	D&S	TYPE	DRAWING NO.	SHEET	REV	ID													
A03	4	2	4	3	0	2	4	1	A1	C	D	E	F	0	0	0	1	0	1	2	JU