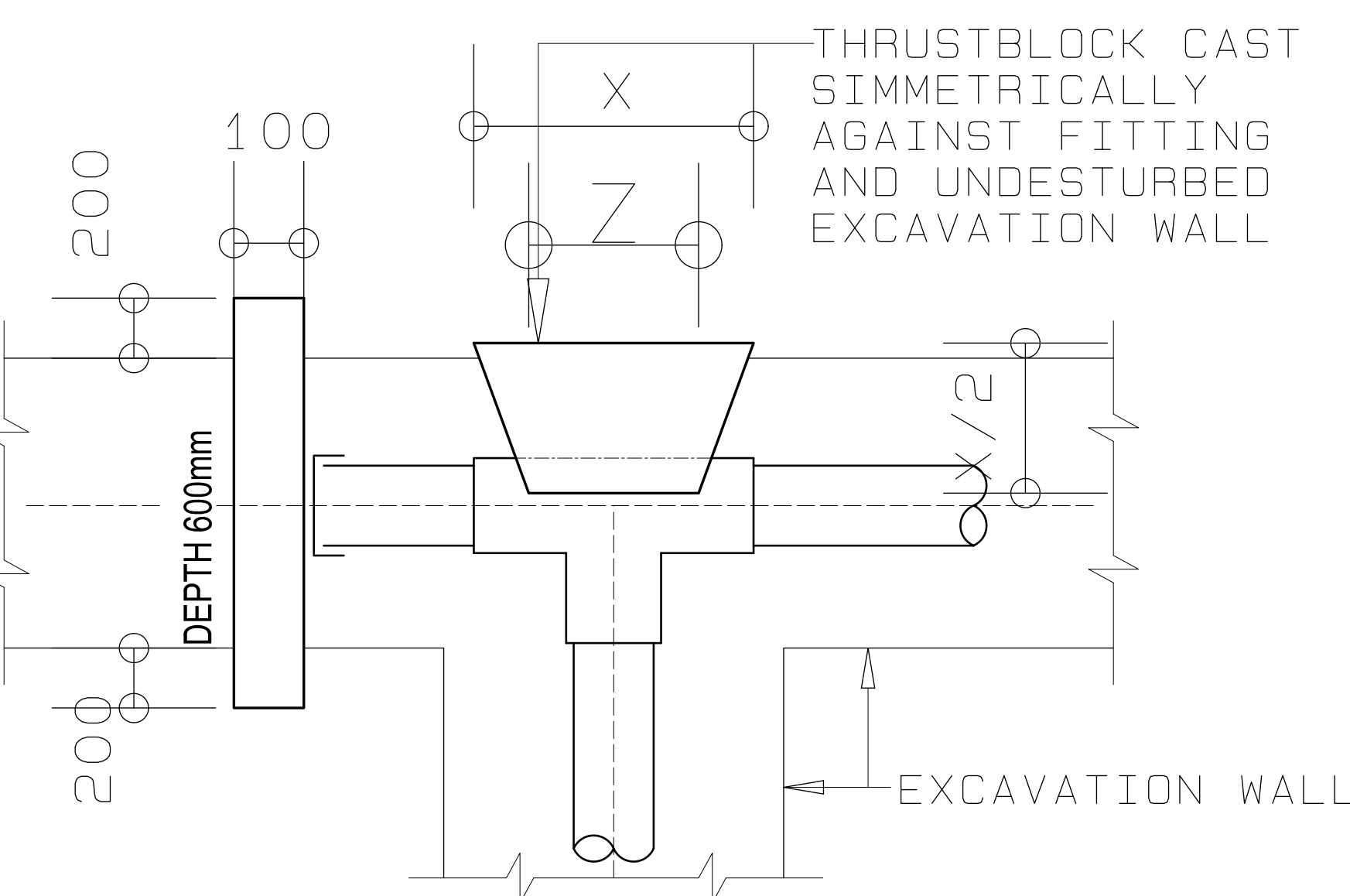
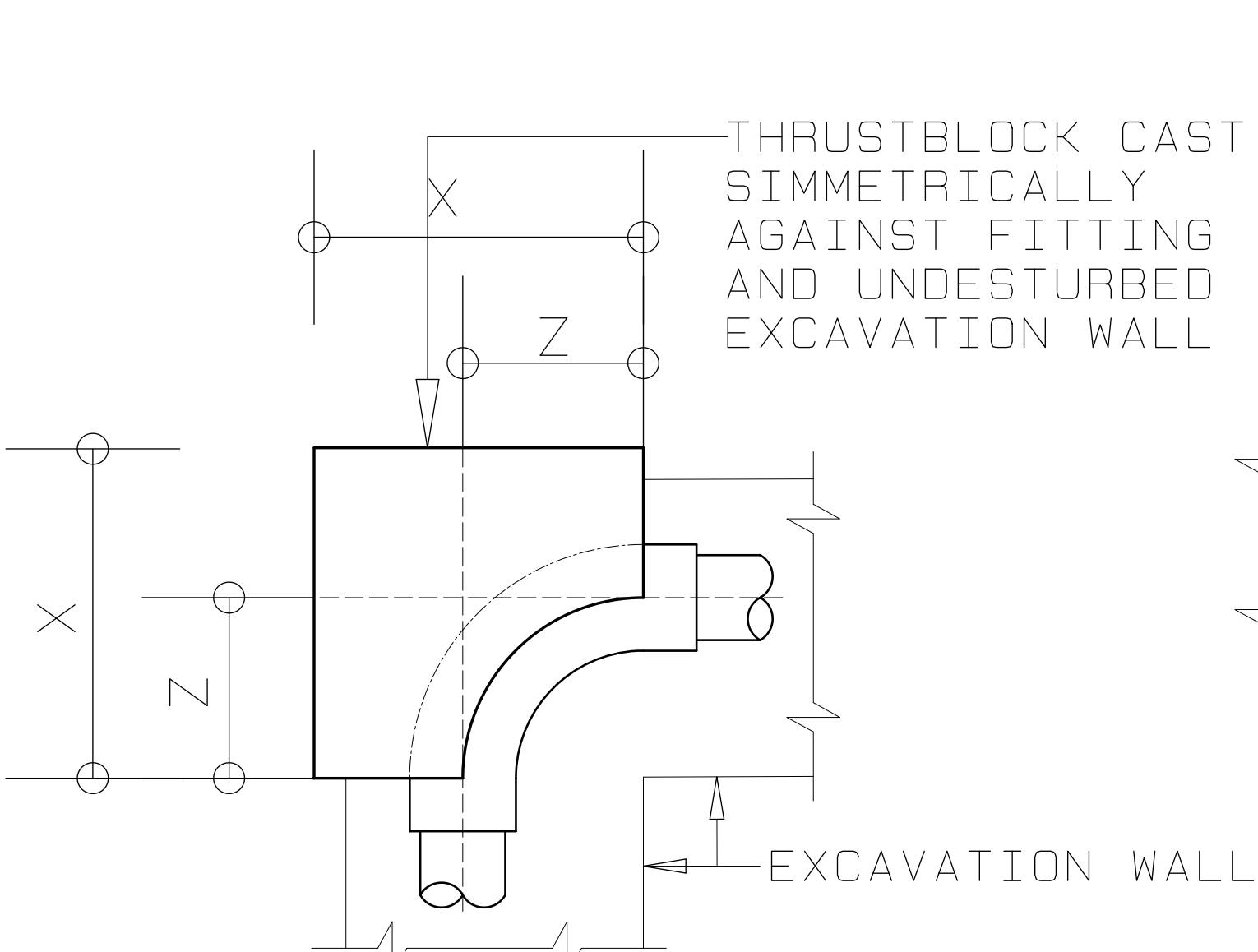
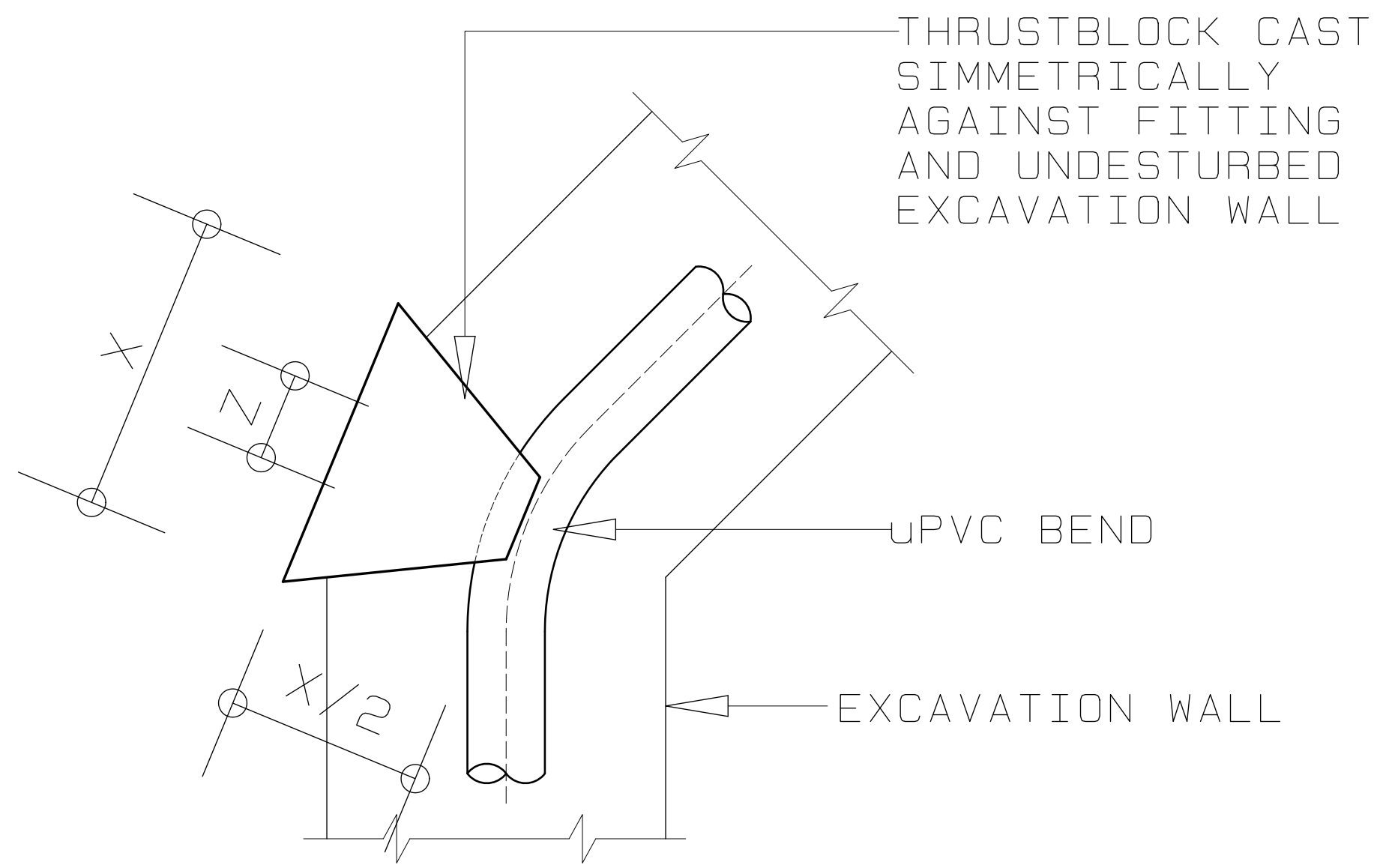




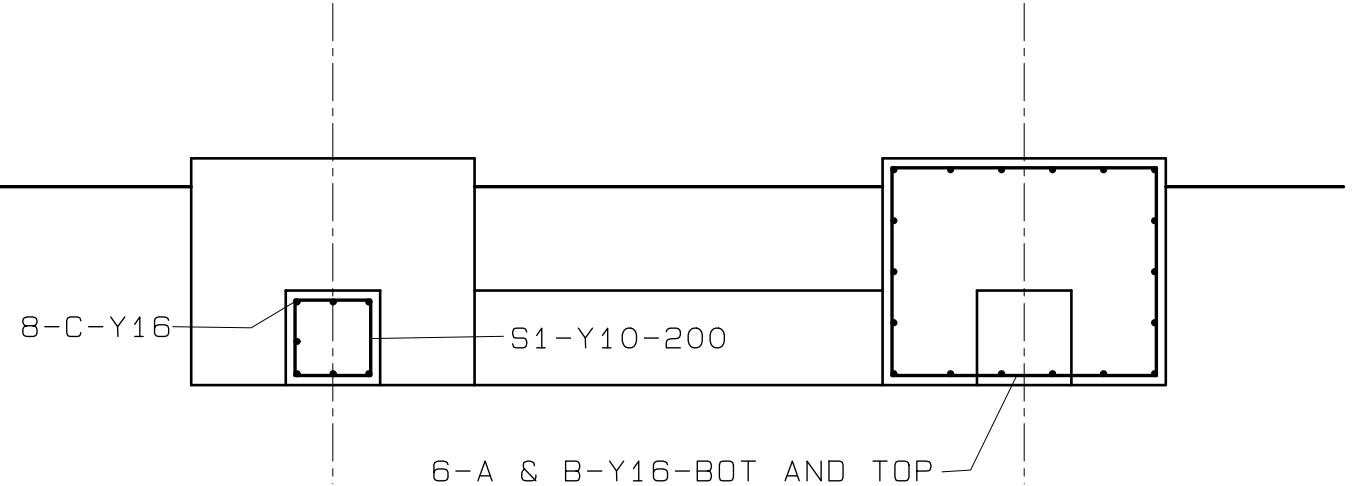
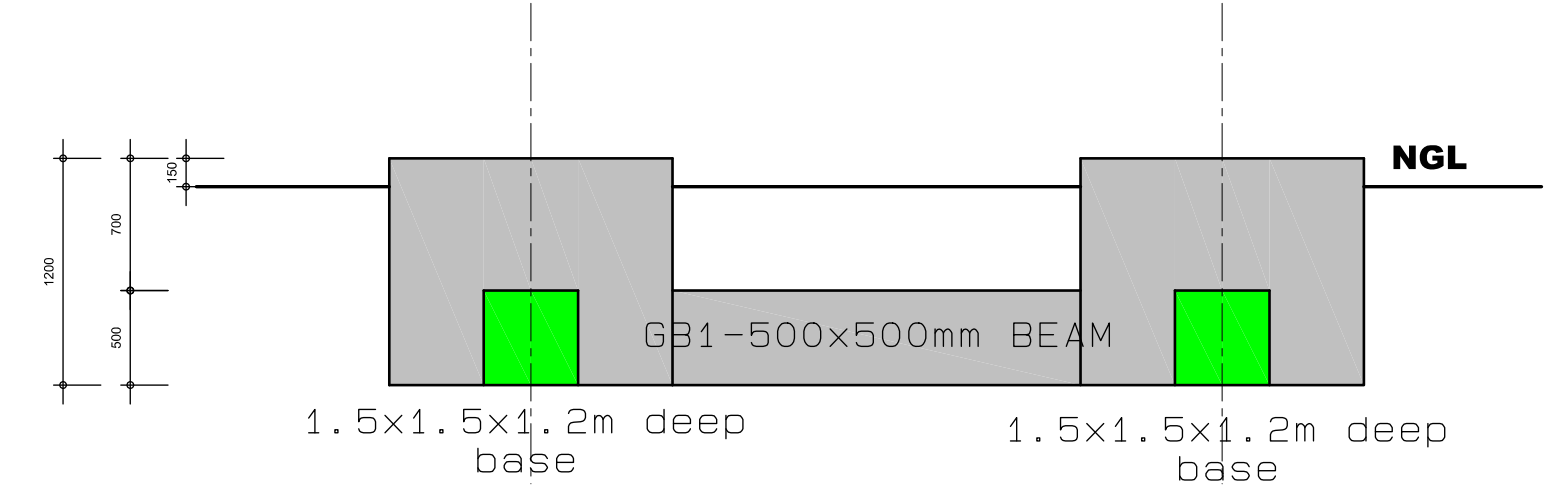
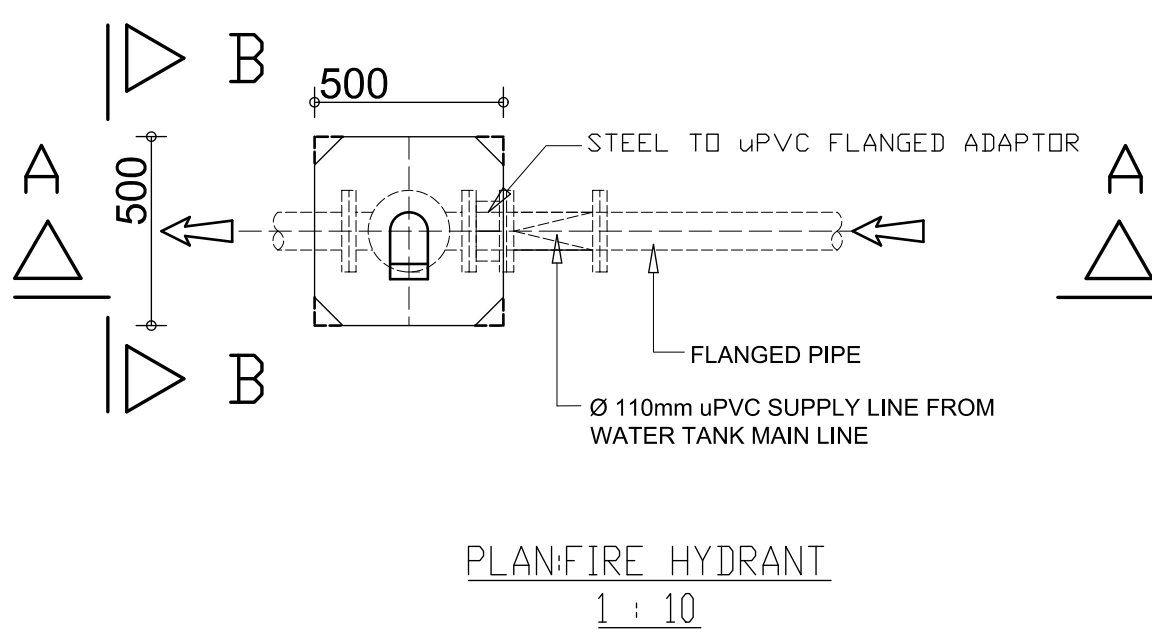
BEND	X	Z	DEPTH
300mm	1500	375	1200
225mm	1125	350	900
200mm	1000	325	800
150mm	750	275	600
100mm	500	175	400
75mm	375	125	300
50mm	250	75	200

BEND	X	Z	DEPTH
300mm	2250	575	1300
225mm	1890	500	1000
200mm	1640	475	900
150mm	1210	400	700
100mm	740	250	500
75mm	530	175	400
50mm	330	125	300

T-PIECE	X	Z	DEPTH
300mm	1950	550	1200
225mm	1475	425	900
200mm	1300	350	800
150mm	1000	275	600
100mm	650	200	400
75mm	500	150	300
50mm	325	100	200

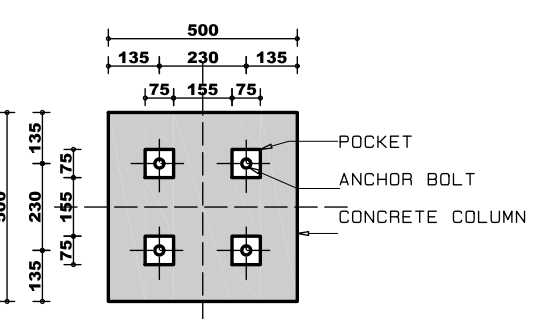
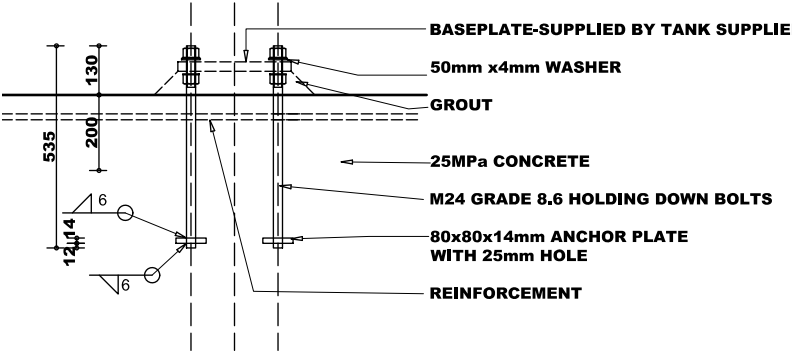
NOTE: SUPPLY POLYETHYLENE MEMBRANE BETWEEN CONCRETE AND FITTING

TYPICAL THRUST BLOCK DETAILS (N.T.S)



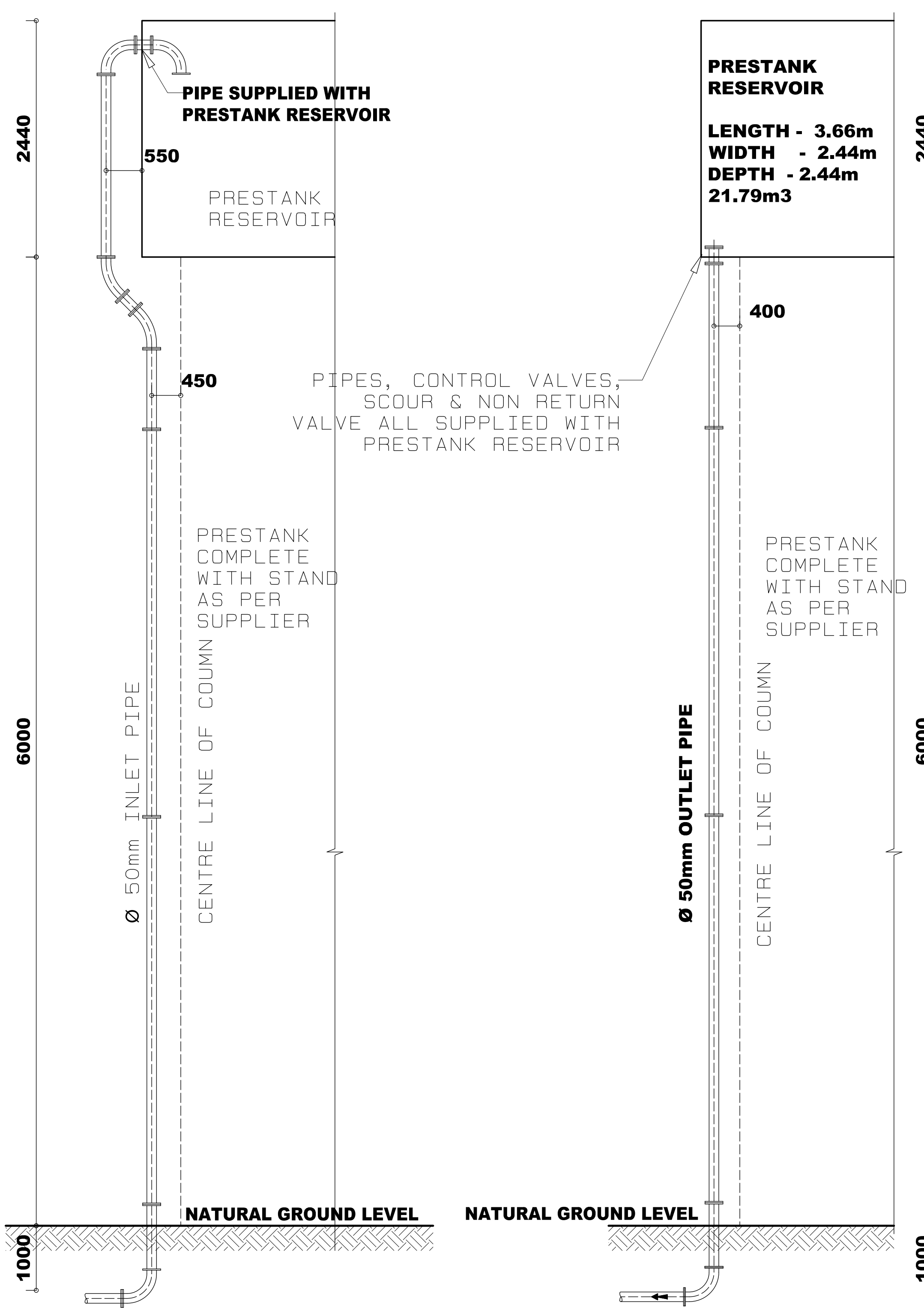
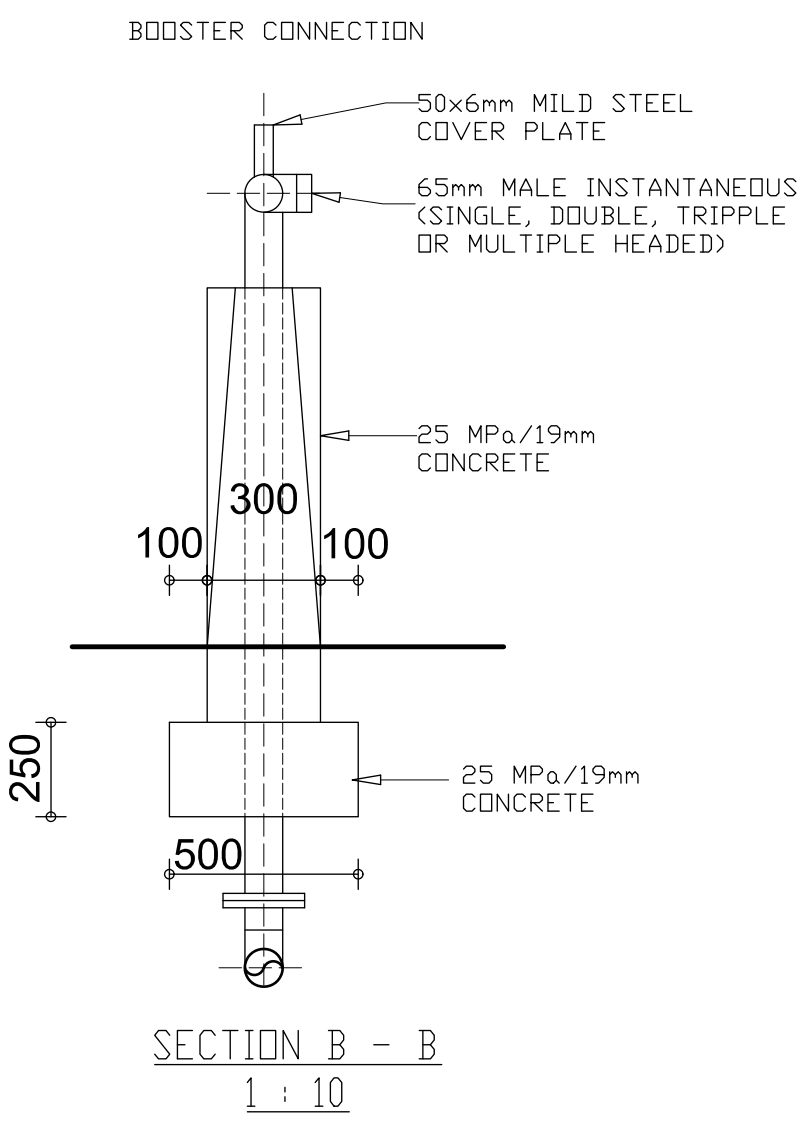
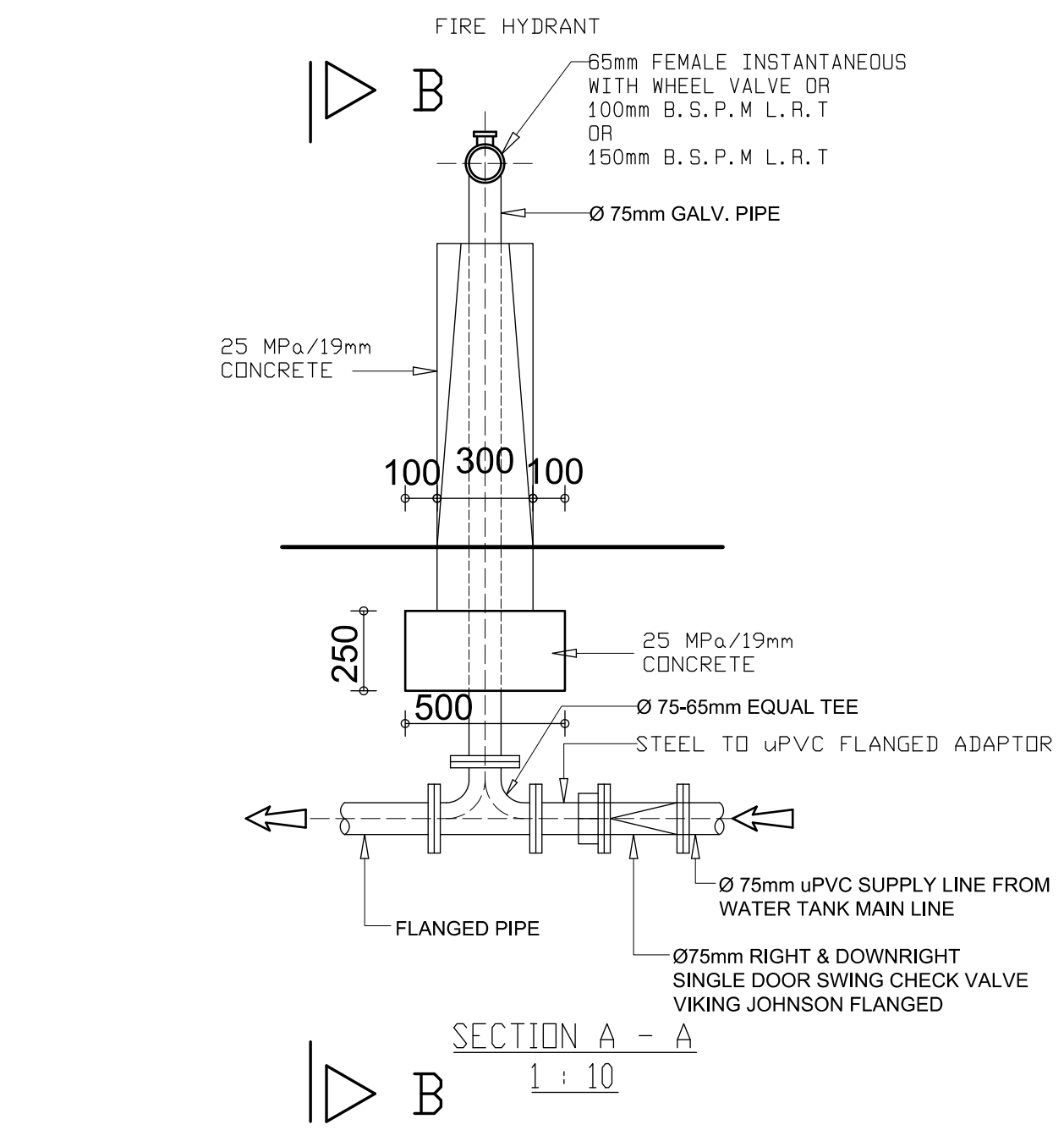
MEMBER	No OF	BARS PER MEMB	DIA	LENGTH	TOTAL NUM-BER	MARK	S C	B E N D I N G				
								A	B	C	D	E/r
1500x1500x1200mm FOOTINGS	1	48	Y16	3900	48	A	55	200	1050	1400	1050	200
		48	Y16	1900	48	B	35	1400				
		32	Y20	1850	32	S1	50	400				
		16	Y12	2850	16	C	20	2850				
		16	Y12	4000	16	D	20	4000				
	8	10	12	16	20	25	32	40	TOT	Date		
	R									Det by	PR	
	Y									Ref Dwg		
	TOT									Job No		
										Revision		
										Schedule No		

NOTE: (ALL TO BE DONE TO MANUFACTURERES DETAILS AND SPECIFICATION AND MUST BE APPROVED BY TE ENGINEER) CONTRACTOR TO ALLOW FOR PLACING OF M24mm HD BOLTS AS WELL AS GROUTING UNDERNEATH BASEPLATES GROUT: USE FLUID PORTLAND CEMENT MORTAR NOT LEANER THAN 1:2 CEMENT / SAND MIXED AS THICKLY AS POSSIBLE CONSISTENT WITH FLUIDITY. ALTERNATIVELY USE NON SHRINK GROUT APPROVED BY THE ENGINEER. BOLT SHANKS TO BE DECREASED BEFORE EMBEDDED WELD TO BE: E 70XXX (= E 480XX)



ANCHOR PLATE DETAIL

PLAN: TYPICAL COLUMN



INLET SECTION (SCHEMATIC)

OUTLET SECTION (SCHEMATIC)



NOTES AND SPECIFICATIONS

LEGEND

ROADS:

- KERBING TO BE AS PER STANDARD DETAIL PLANS.
- TRAFFIC CONTROL MUST COMPLY WITH THE REQUIREMENTS OF THE SOUTH AFRICAN ROAD TRAFFIC SIGNS MANUAL (THIRD EDITION).
- ALL LEVELS TO BE CONFIRMED ON SITE.

STORMWATER

- MINIMUM PIPE DIAMETER TO BE 450mm.
- MINIMUM PIPE FALL TO BE 1:200(1%) UNLESS OTHERWISE APPROVED BY MUNICIPALITY.
- PIPE BEDDING TO BE CLASS B UNLESS OTHERWISE SPECIFIED.
- ALL EXCAVATIONS AND BEDDING MUST BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE LAYING OF ANY PIPES.
- CLEAN EXISTING STORMWATER INLETS AND REPAIR WHERE NECESSARY (IF APPLICABLE).
- BELL MOUTHS TO HAVE FIG8c KERBS

LEGEND

PROPOSED:

- JB JUNCTION BOX
- FI FIELD INLET
- KI KERB INLET
- GI GRID INLET
- WINGWALL OUTLET
- STORMWATER GRID GRATING
- MH# STORMWATER MANHOLE
- BM BENCHMARK
- STORMWATER CHANNEL
- GUARDRAILS
- PROPOSE SURFACE
- EXISTING BLOCK PAVING
- PROPERTY BOUNDARY
- MOUNTABLE CONCRETE KERB FIG.8b

EXISTING:

- JB JUNCTION BOX
- FI FIELD INLET
- KI KERB INLET
- GI GRID INLET
- MH# STORMWATER MANHOLE
- BM BENCHMARK
- STORMWATER CHANNEL
- GUARDRAILS
- PROPOSE SURFACE
- EXISTING BLOCK PAVING
- PROPERTY BOUNDARY
- MOUNTABLE CONCRETE KERB FIG.8b

SHEET LAYOUT

PROJECT STATUS

PROJECT ENGINEER:	INTENDS AND SIGNATURE:	SIGNATURE & PR NUMBER:	DATE:
INSTRUCTOR OF WORKS:	SIGNATURE:	DATE:	ORIGINAL PAPER SIZE: A0
REMARKS:	DRAWING NO. AWA-26-06-03		
SHEET NO. 3 OF 3			AWA

AMENDMENTS		
NR.	DATE	DESCRIPTION

CONSULTANTS DETAIL:
TEKROD CONSULTING ENGINEERS
218 Rivier Street
Villa Perez, Unit no 8
Potchefstroom
2531
TEL : 015 023 1118
eMAIL: admin@tekrod.co.za
WEBSITE: www.Tekrod.co.za



CLIENT DETAIL:
Maquassi Hills Local Municipality
19 Kruger Street, Wolmaransstad
North West Province
South Africa
Customer Service: 018 065 0010
Fax: 018 596 1555



Maquassi Hills
Local Municipality

DESIGNED B Appels
DRAWING CHECKED BY T MASWANGANYI
DRAWN B Appels
CIVIL DRAUGHTING SERVICES AWA ARCHITECTURAL DESIGNS

LOCATION OF PROJECT: Witpoort, Maquassi Hills			
DESCRIPTION OF PROJECT CONSTRUCTION OF RECREATIONAL FACILITIES AT THE WITPOORT DAM-PHASE 2			
CONTRACT No.:	PROJECT No.: AWA-25-06	SCALE: AS SHOWN	DATE: JUNE 2026