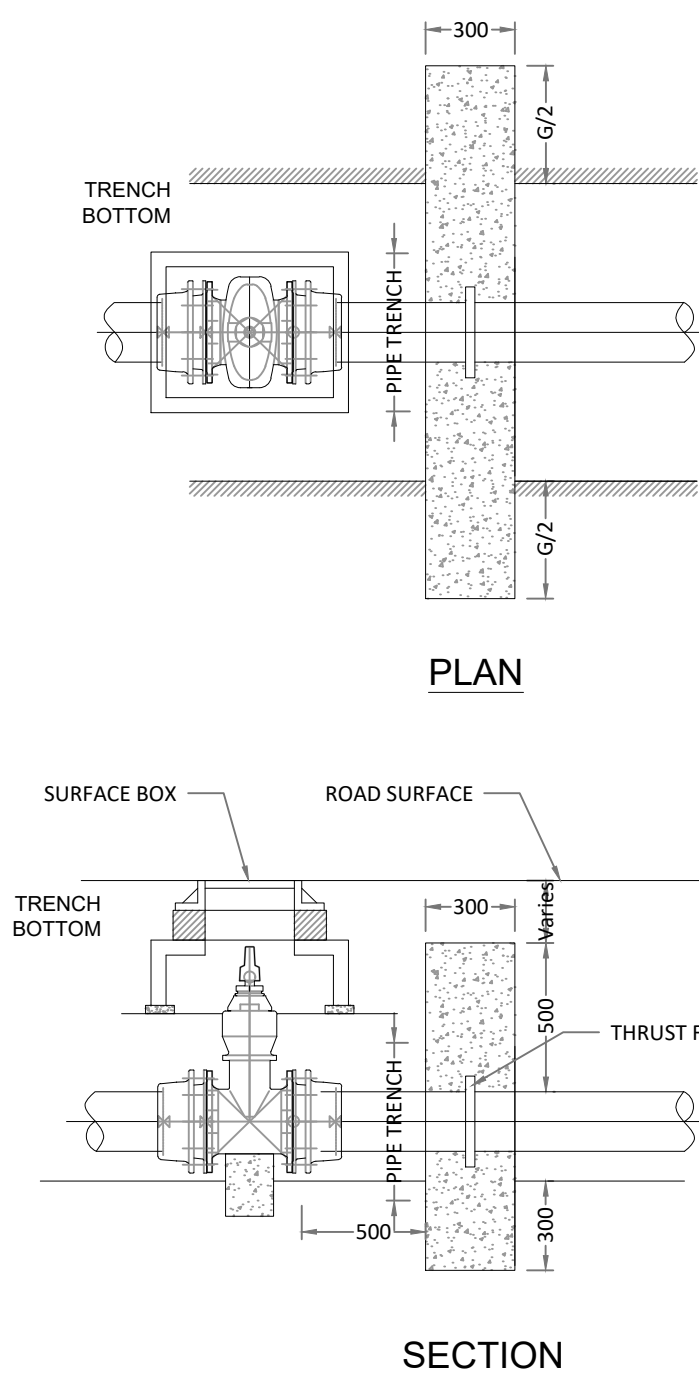
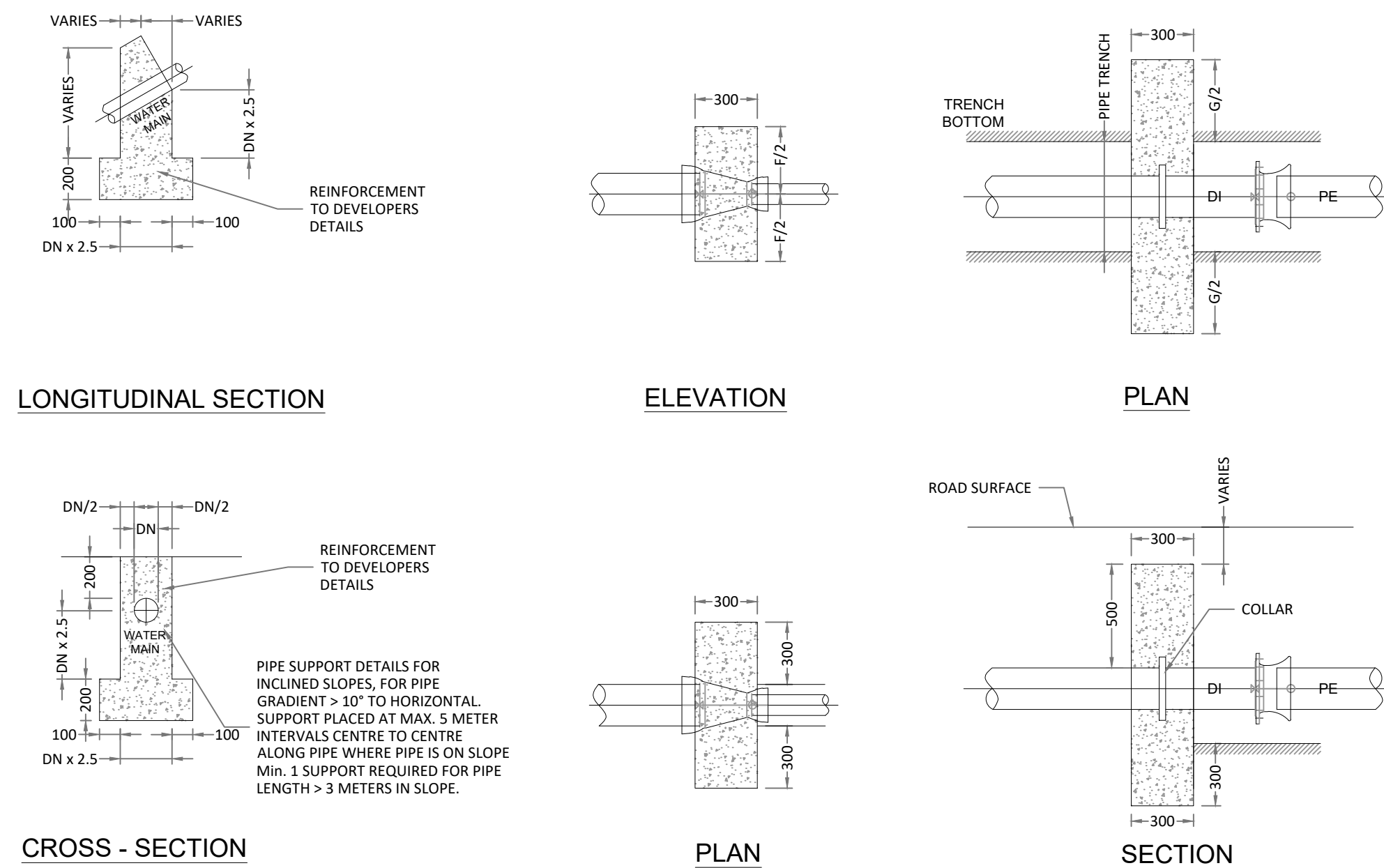
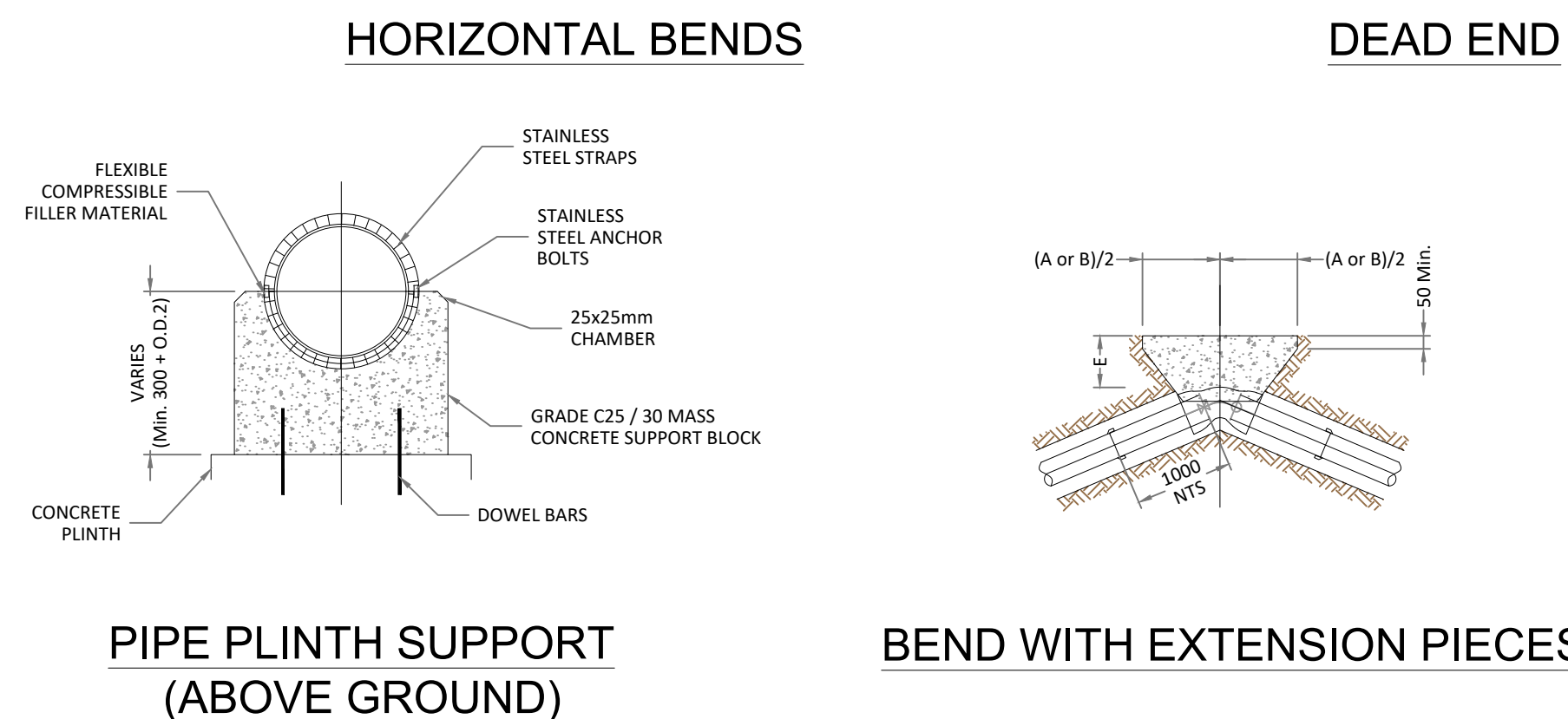
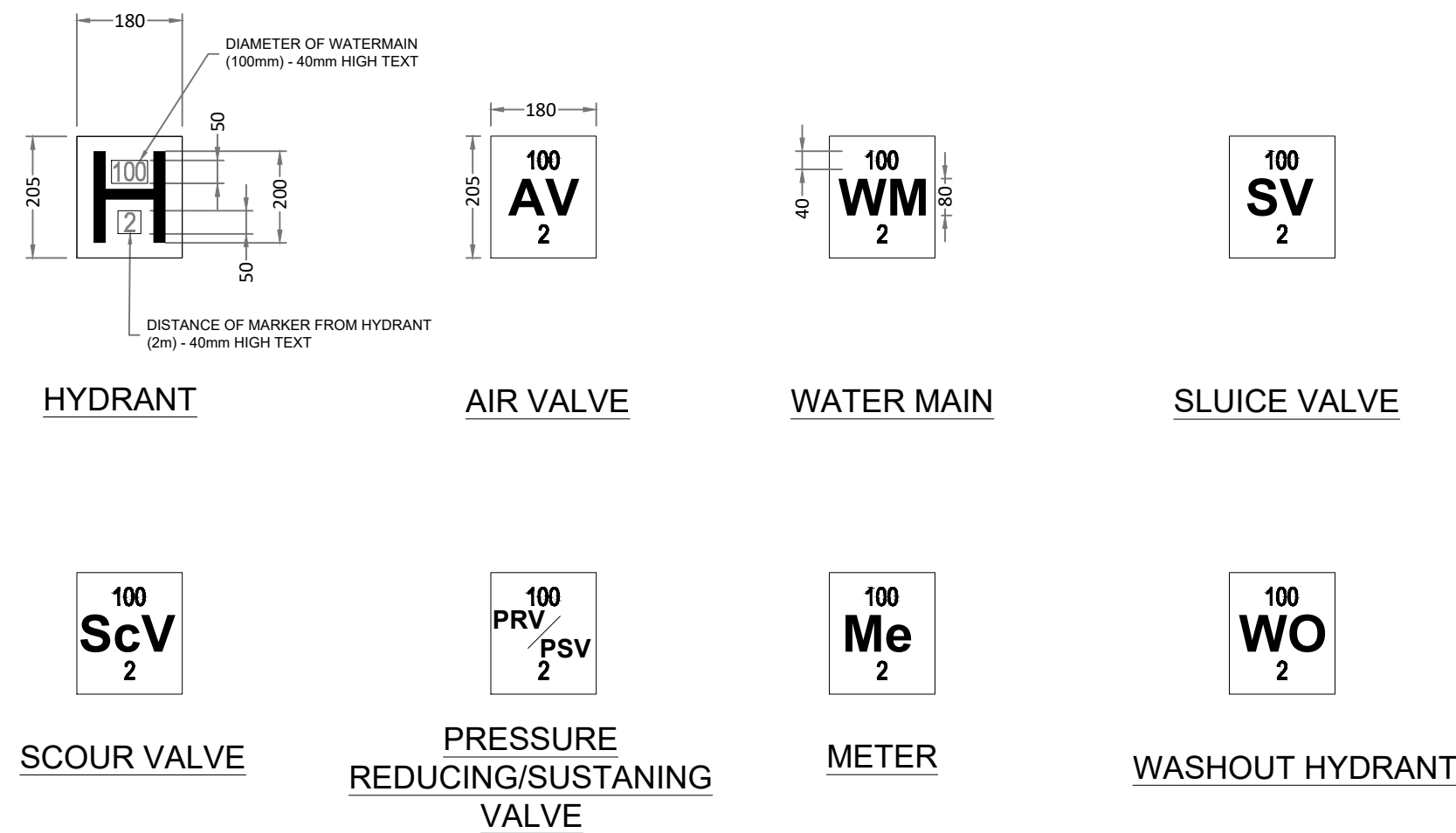
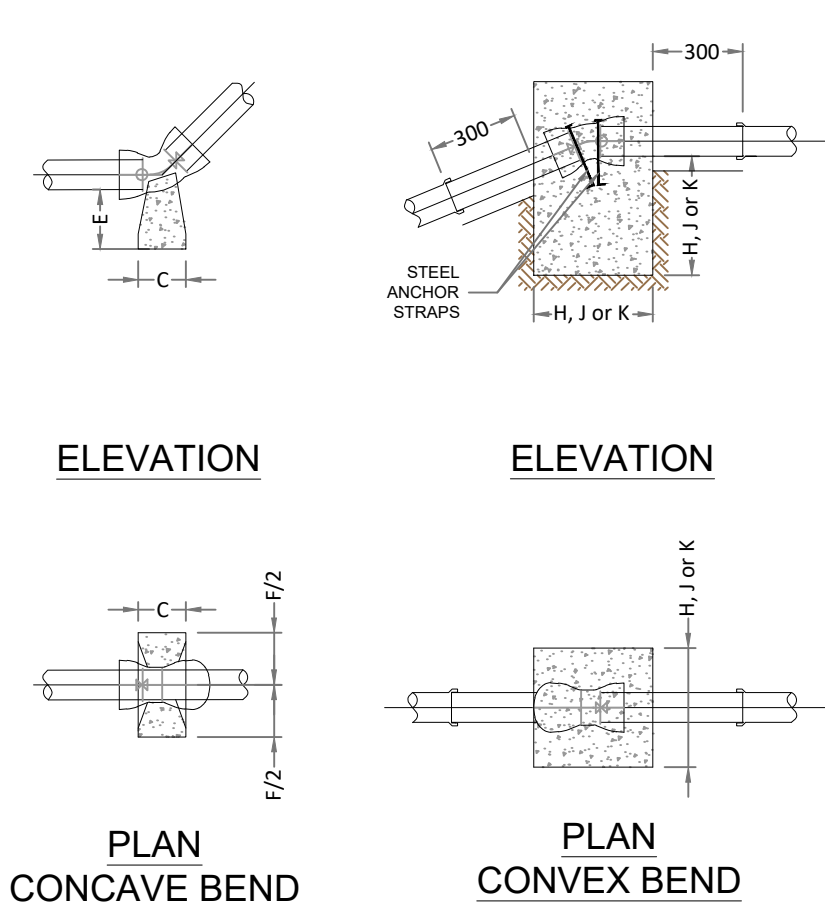
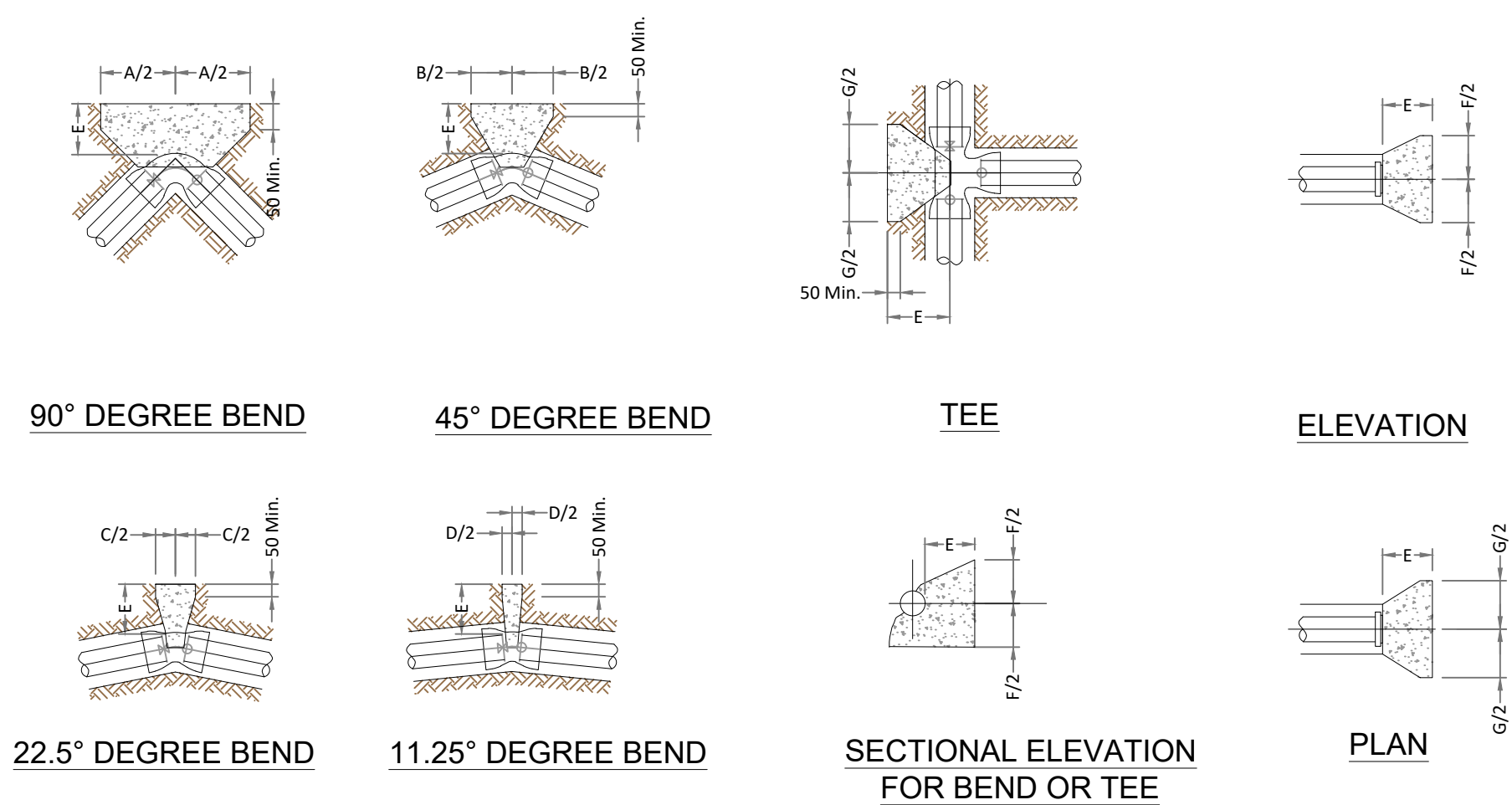
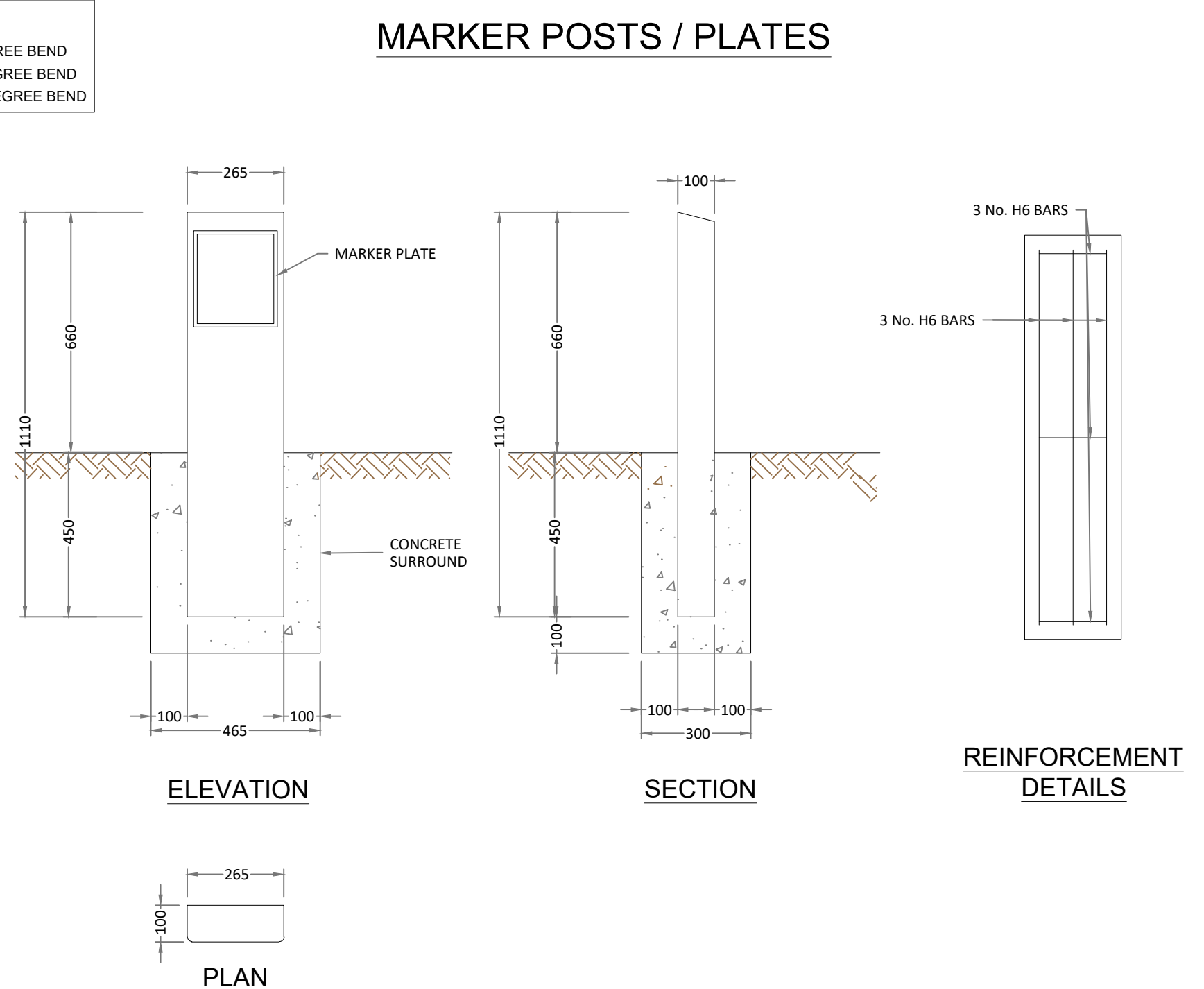




NOTES:
H FOR 45 DEGREE BEND
J FOR 22.5 DEGREE BEND
K FOR 11.25 DEGREE BEND



THRUST BLOCKS NOTES:

1. CONCRETE THRUST BLOCKS (ANCHORAGE) SHALL BE POSITIONED SYMMETRICALLY WITH RESPECT TO THE CONNECTING PIPE & BENDS.
2. TRENCH DIMENSIONS - REFER TO DRAWING NO. STD-W-13.
3. THRUST BLOCKS SHALL BEAR ON UNDISTURBED SOIL. IF FORCE CAN NOT THEN THE DEVELOPER SHALL NOTIFY IRISH WATER IMMEDIATELY WITH A PROPOSED SOLUTION.
4. THRUST BLOCK REINFORCEMENT REQUIRES SPECIFIC DESIGN.
5. FOR TEST PRESSURES GREATER THAN 18 BAR, THRUST BLOCK DESIGN IS TO BE SUBMITTED TO IRISH WATER FOR APPROVAL.
6. THRUST BLOCKS ARE DESIGNED FOR AN AVERAGE BEARING CAPACITY OF 100 kN/m² (TYPE 1) OR 200 kN/m² (TYPE 2) SOFT CLAY FOR OTHER CONDITIONS. ACTUAL DIMENSIONS MAY BE ALTERED ON INSTRUCTIONS FROM IRISH WATER.
7. FOR ALL OTHER TYPES OF THRUST BLOCKS SHALL BE GRADE C20/25.
8. COMPRESSIBLE FILLER FOR CONCRETE PROTECTION TO BE IN ACCORDANCE WITH BS 6824-1 AND BS EN 622-4. BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH PLASTIC PIPES. THE THICKNESS OF COMPRESSIBLE FILLER FOR MAINS - 40mm IN DURATION IS TO BE 18mm.
9. CONCRETE THRUST BLOCKS FOR POLYETHYLENE PIPE TO COMPLY WITH THE MANUFACTURERS REQUIREMENTS.
10. POLYETHYLENE PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A MINIMUM TENSILE STRENGTH IN ACCORDANCE WITH BS 8076 BEFORE BEING CAST INTO CONCRETE.

MARKER POSTS NOTES:

1. WHERE PRACTICAL MARKER PLATES SHALL BE FIXED TO ADJACENT WALLS OR ALTERNATIVELY ATTACHED TO MARKER POSTS.
2. WALL PLATE TO BE FIXED IN POSITION USING WALL PLUGS AND STAINLESS STEEL SCREWS.
3. MARKER PLATES TO BE MANUFACTURED IN ACCORDANCE WITH BS 3251.
4. REINFORCING PLATE ALL CHARACTERS SHOULD BE BLACK AND THE REMAINDER OF THE FRONT FACE SHOULD CONFORM TO COLOUR REFERENCE NO. 309 (CANARY YELLOW) OF BS 381.
5. CHARACTER ON HYDRANT PLATE TO REFER TO WATERMAIN NOT BRANCH.
6. SLUICE VALVE, AIR VALVE, SCOUR VALVE, WASHOUT HYDRANT
7. CHARACTER PLATES SHOULD BE CAST IRON. ALL CHARACTERS SHOULD BE BLACK ON WHITE PAINT BACKGROUND.
8. CONCRETE SURROUND TO MARKER POST TO BE GRADE AND FINISH IN ACCORDANCE WITH HSE 2002/15.
9. PLASTIC MARKER POSTS ARE NOT ACCEPTABLE.

THRUST BLOCKS TABLES:

NOM. DIA. (mm)	< 12 BAR TEST PRESSURE									
	DIMENSIONS									
	A	B	C	D	E	F	G	H	J	K
100	600	330	160	80	200	350	300	700	600	400
150	950	510	260	130	325	450	660	900	750	600
200	1150	660	310	160	300	650	790	1050	900	700
250	1350	750	360	200	300	800	970	1200	1000	750
300	1580	850	450	250	320	950	1110	1300	1100	850
350	2020	1150	570	300	350	1000	1450	1550	1200	900
400	2550	1400	700	350	500	1050	1800	1700	1250	1000
450	3000	1630	830	420	680	1100	2130	1800	1450	1150
500	3500	1850	950	500	800	1150	2450	2000	1650	1300
600	4500	2200	1120	570	850	1400	2800	2100	1900	1300

12 BAR TO 15 BAR TEST PRESSURE										
NOM. DIA. (mm)	DIMENSIONS									
	A	B	C	D	E	F	G	H	J	K
100	700	380	190	100	200	350	510	750	600	400
150	1115	620	300	160	275	450	760	950	750	600
200	1400	780	380	200	350	600	950	1170	950	700
250	1730	980	480	240	430	800	1210	1350	1050	850
300	2090	1130	580	300	500	950	1480	1500	1200	950
350	2600	1410	720	360	500	1050	1840	1900	1350	1050
400	2980	1610	820	420	750	1200	2110	1850	1500	1100
450	3400	1840	940	470	930	1350	2330	2070	1650	1250
500	4090	2210	1130	570	1000	1480	2690	2200	1750	1350
600	5010	2710	1380	700	1000	1500	3350	2350	1800	1500

15 BAR TO 15 BAR TEST PRESSURE										
NOM. DIA. [mm]	DIMENSIONS									
	A	B	C	D	E	F	G	H	J	K
300	750	400	205	1000	220	400	530	800	610	400
150	1250	500	350	1800	250	500	800	1050	850	650
200	1500	600	400	2200	270	550	850	1200	950	700
250	1960	1060	540	2700	300	900	1310	1450	1150	900
300	2300	1200	640	3200	300	1100	1600	1600	1300	1050
350	2930	1580	830	4100	320	1250	1850	1850	1500	1150
400	3510	1900	870	5000	340	1400	2100	2100	1600	1250
450	3810	2270	1160	5800	1000	1350	2970	2150	1700	1350
500	4540	2880	1120	6100	1000	1400	3700	2250	1750	1400
550	5000	3450	1160	6500	1000	1450	4200	2350	1800	1450

GRADIENT	SPACING
1 IN 2 & STEEPER	5.5m
BELOW 1 IN 2 TO 1 IN 4	11.0m
1 IN 4 TO 1 IN 5	16.6m
1 IN 5 TO 1 IN 6	22.0m

Foul Sewer Notes

1. All foul sewer works shall be carried out in accordance with Irish Water Standard Details and Code of Practice for Wastewater Infrastructure Document ICWS-0300-03.
2. All pipe materials shall comply with the Irish Water Code of Practice for Wastewater Infrastructure Document ICWS-0300-03.
3. Foul sewer service connections and inspection chambers shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CDS-0300-01.
4. All manhole chambers shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CDS-0300-01.
5. All manholes and bedding shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CDS-0300-01.
6. Concrete bed, haunch and surround shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CDS-0300-01.
7. Separation distances from other services, boundary walls etc. shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CDS-0300-01.
8. Separation distances from trees, shrubs etc. shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CDS-0300-01.

Storm Sewer Notes

1. All pipe materials shall comply with Irish Water Code of Practice for Wastewater Infrastructure Document CWS-5030-03.
2. All manhole chambers shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CWS-5030-01
3. Trench backfill and bedding shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CWS-5030-01.
4. Concrete bed, haunch and surround shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CWS-5030-01

Watermain Notes:

1. All workman works shall be carried out in accordance with Irish Water Standard Details and Code of Practice for Water Infrastructure Document CDS-5020-03.
2. All pipe materials shall be in compliance with Section 3.9 of Irish Water Code of Practice Document CDS-5020-03.
3. Individual water service connections and boundary boxes shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CDS-5030-01.
4. Separation distances from other services, boundary walls etc. shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CDS-5030-01.
5. Separation distances from trees, shrubs etc. shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CDS-5030-01.
6. On line and off-line air valve details shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CDS-5030-01.
7. Sluice valve details shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CDS-5030-01.
8. On line and off-line hydrant details shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CDS-5030-01.
9. Scour valve and chamber details shall be in accordance with Irish Water standard details as set out in IW Wastewater Infrastructure Standard Details document - IW-CDS-5030-01.

P04	31.08.21	OS MCE	Issue for Stage Approval		<
Rev	Date	Dm mk	Amendment / Issue		A

Client

Galway City Council

rps MAKING
COMPLEX
EASY

Proje

Housing Development ,
Keeraun, Ballymoneen Road, Galway

Title

TYPICAL WATERMAIN DRAINAGE DETAILS

Model File Identifier

N/A

File Identifier

MGC0716-RPS-00-XX-DR-DR0004-02

Created on

January '21

Scale

NTS @ A

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