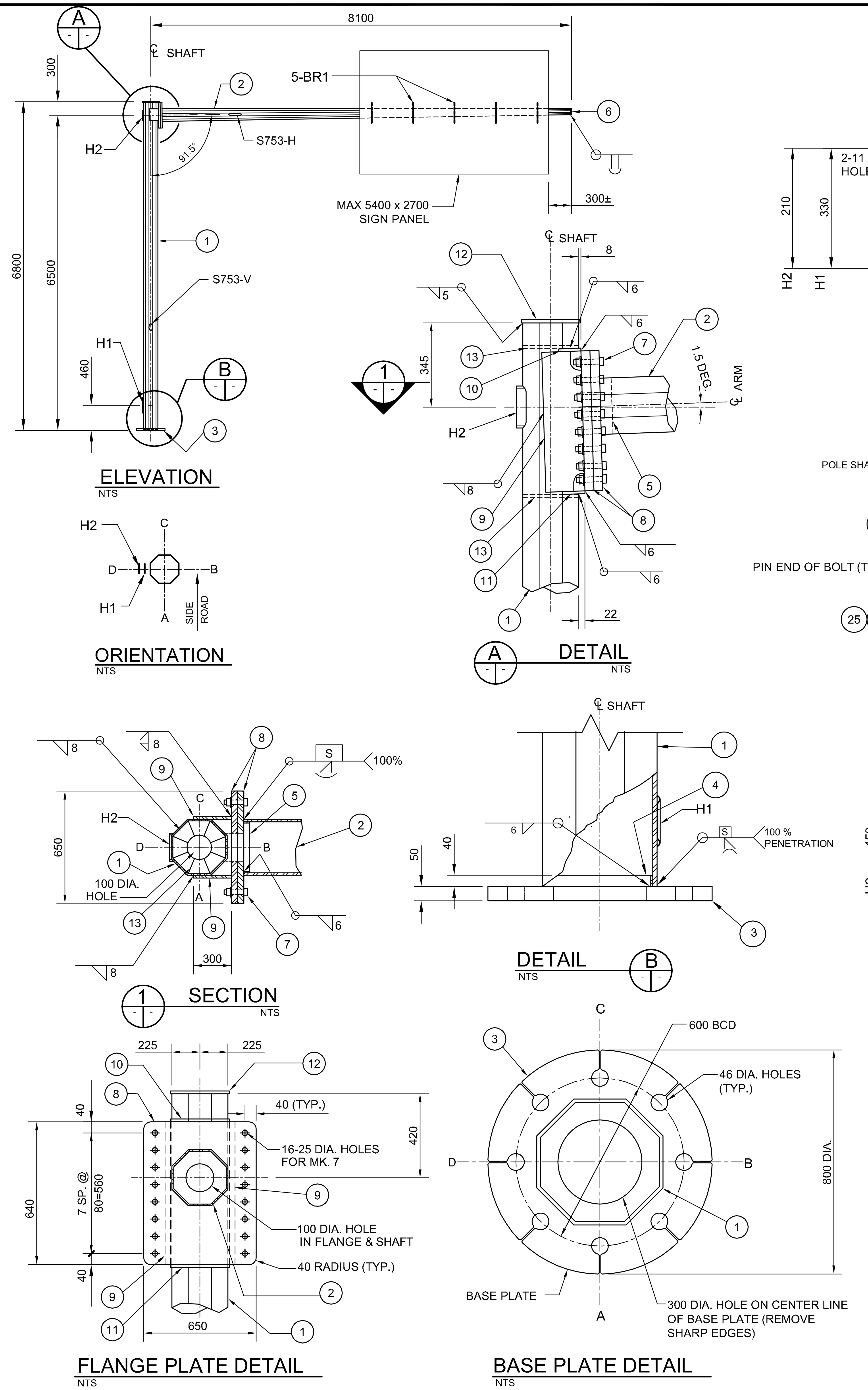
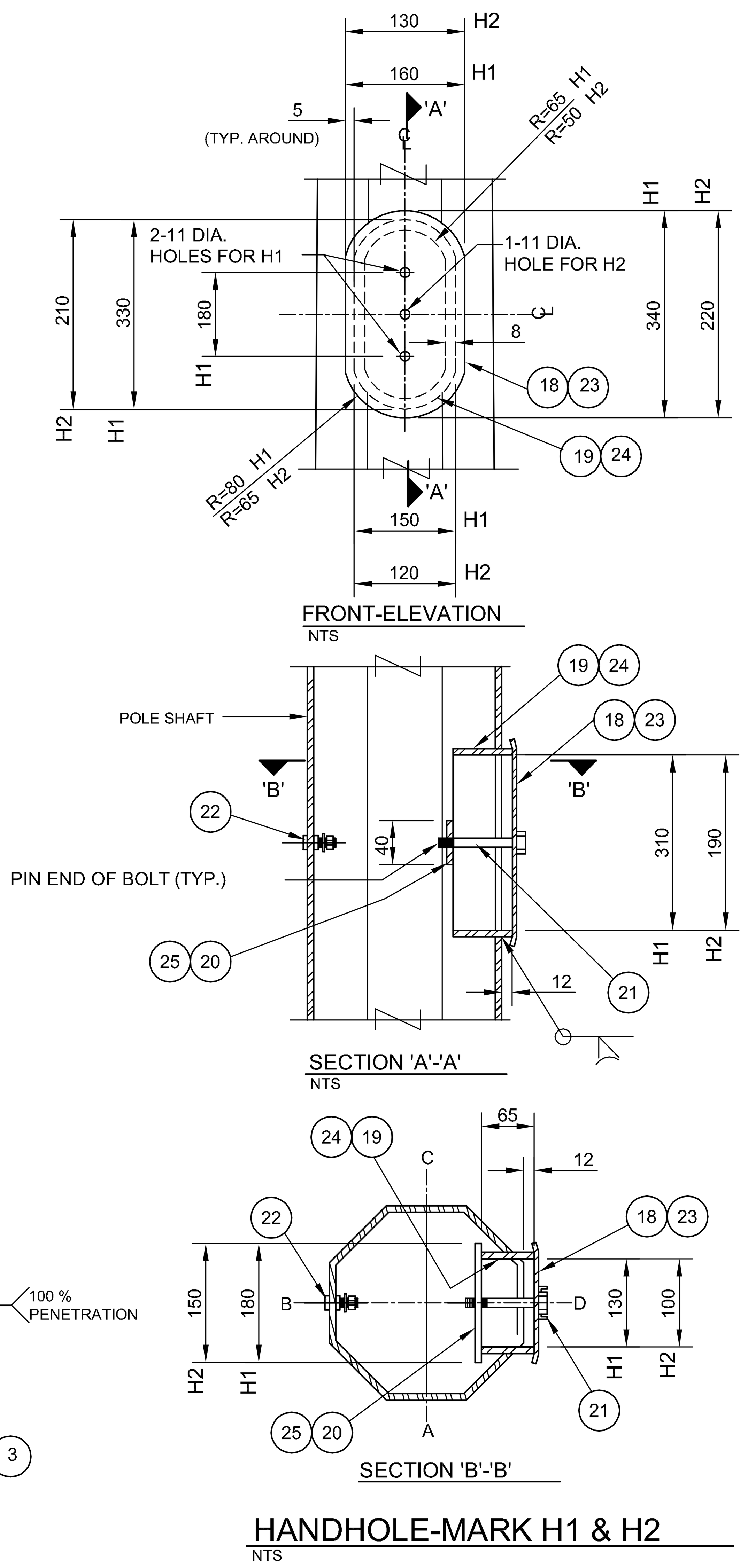
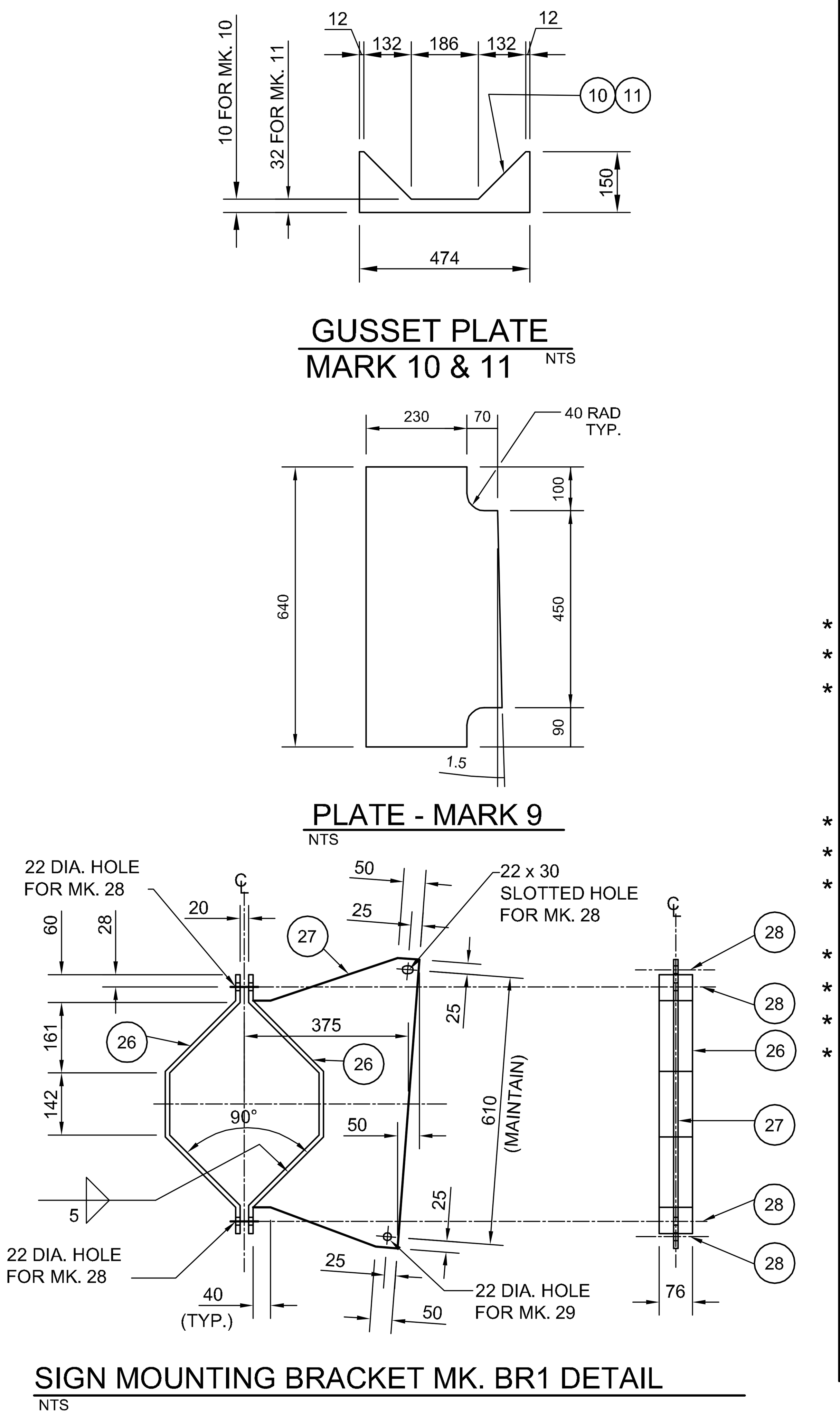






BILL OF MATERIALS

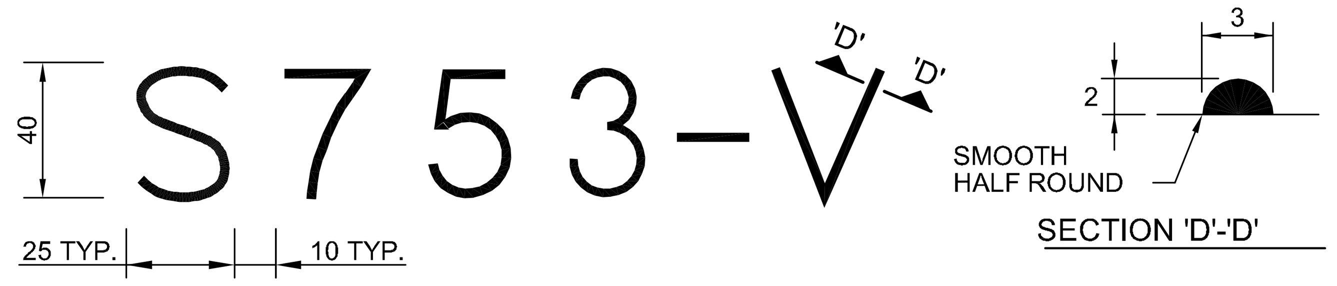
	MK.	QTY.	DESCRIPTION
	1	1	OCTAGONAL SHAFT 450 A/F x 12.7
	2	1	OCTAGONAL ARM 350 A/F TO 200 A/F x 9.525
	3	1	BASE PLATE 800 DIA. x 50 THICK (GR. 300W)
	4	1	BACKUP STRIP 40 x 6 (FOR SHAFT)
	5	1	BACKUP STRIP 40 x 6 (FOR ARM)
	6	1	END PLATE 200 A/F OCTAGONAL 6 THICK
	7	16	22 DIA.x100 LG. A325 BOLTS GALV. C/W NUT&WASHER
	8	2	FLANGE PLATE 650 x 640 x 38
	9	2	SIDE GUSSET PLATE 20 THICK
	10	1	TOP GUSSET PLATE 10 THICK
	11	1	BOTTOM GUSSET PLATE 10 THICK
	12	1	COVER PLATE 470 DIA x 10 THICK
	13	2	OCTAGONAL INTERIOR GUSSET PLATE 8 THICK
			HANDHOLE MARK H1 (1 REQ'D.)
	18	1	COVER PLATE 11 GA. x 160x 340 (A569)
	19	1	REINFORCING RING 8 x 65 x 830
*	20	2	CLAMP BAR 6 x 40 x 180
*	21	2	10 DIA. x 140 BOLT S/S (TYPE 316)
*	22	1	GROUND STUD ASSEMBLY 10 DIA. x 40
			HANDHOLE MARK H2 (1REQ'D.)
	23	1	COVER PLATE 11 GA. x 130 x 220 (A569)
	24	1	REINFORCING RING 8 x 65 x 555
*	25	1	CLAMP BAR 6 x 40 x 150
*	21	1	10 DIA. x 140 BOLT S/S (TYPE 316)
*	22	1	GROUND STUD ASSEMBLY 10 DIA. x 40
			SIGN MOUNTING BRACKET BR1 (7 REQ'D.)
*	26	2	CLAMP BAR 10 x 76 (LENGTH TO SUIT)
*	27	1	BRACKET PL. 10 THICK
*	28	2	3/4" DIA. x 4" A325 BOLT (GALV.)
*	29	2	3/4" DIA. x 2" S/S BOLT (TYPE 316)

*NOTES:

1. MARK NO. 29 C/W NUT AND LOCKWASHER.
2. MARK NO. 20 & 25 C/W 8-DIA. PUNCHED 10 N.C. TAPPED AT THE CENTER OF PLATE.
3. MARK NO. 21 C/W CUP WASHER.
4. MARK NO. 22 C/W 2-10 DIA. HEX NUT, 2-TERMINAL WASHER. & 1-LOCKWASHER
5. MARK NO. 26, 27 & 28 QTY'S LISTED AREA FOR SINGLE SIGN MOUNTING BRACKET ONLY.

NOTES

1. PROVIDE "RAISED" IDENTIFICATION NO. WITH WELDING ELECTRODE FOR THE SIGN STRUCTURE.
2. GRIND ALL SHARP POINTS AND EDGES.



STRUCTURE IDENTIFICATION NUMBER SIZE
NTS

GENERAL NOTES

1. DESIGN DATA
   AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 5TH EDITION, 2009.

   DESIGN WIND LOAD = 1.44 kPa (30 PSF)

   DESIGN ICE LOAD = 0.15 kPa (3 PSF)
2. ALL MATERIALS SHALL BE CSA G40.21 - 350W STRUCTURAL STEEL UNLESS OTHERWISE NOTED.
3. ALL MATERIALS EXCEPT STAINLESS STEEL AND ALUMINUM SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH CSA G164 TO A MIN. NET RETENTION OF 610 g/m²
4. ALL AREAS OF DAMAGED GALVANIZING SHALL BE REPAIRED WITH SELF-FLUXING LOW TEMPERATURE, ZINC BASED ALLOY ROD OR SPRAY-ON COATING CALLED "ZINGA".
5. SIGNS
   ONE SIGN PANEL
   MAX SIZE 5400 x 2700 mm. SUPPLIED AND INSTALLED BY THE CITY OF WINNIPEG TRAFFIC SERVICES BRANCH.
6. INSTALL HOLES IN THE GUSSET PLATES FOR DRAINAGE DURING GALVANIZING AS DETAILED.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

1. NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2. TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.
3. OBTAIN EXCAVATION PERMITS PRIOR TO CONSTRUCTION.

EXISTING	LEGEND–PLAN	PROPOSED	EXISTING	LEGEND–PLAN	PROPOSED	EXISTING	LEGEND–PROFILE	PROPOSED
150 WM	WATERMAIN	150 WM	HYDRO	HYDRO	HYDRO	150 mm W.M.	WATERMAIN	150 mm W.M.
	HYDRANT		MTS	M.T.S.	MTS		HYDRANT	
	VALVE			CONCRETE			VALVE	
300 LDS	LAND DRAINAGE SEWER	300 LDS		ASPHALT		300 mm L.D.S.	LAND DRAINAGE SEWER	300 mm L.D.S.
250 WWS	WASTE WATER SEWER	250 WWS		PLANING		250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
	MANHOLE			SIDEWALK			℄ PROFILE	
	CATCH BASIN			PAVING STONES			NORTH/WEST GUTTER	
	CURB INLET			PARTIAL DEPTH REPAIR			SOUTH/EAST GUTTER	
	JUNCTIONS			PROPERTY LINE			NORTH/WEST T/LANE	
	CULVERT			SURVEY BAR			SOUTH/EAST T/LANE	
100 GAS	GAS	100 GAS		CURB RAMP				

UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE — DATE

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M. 654271 N 5517192.470 E 632610.651
ELEV. 233.084

NO.	REVISIONS	DATE	BY
1	ISSUED FOR TENDER	11/06/23	JNC

DESIGNED BY CDW
DRAWN BY APH
CHECKED BY SSR
APPROVED BY DPK
HOR. SCALE AS NOTED
VERTICAL
DATE 2011/06/23

DILLON CONSULTING

RELEASED FOR CONSTRUCTION
ORIGINAL SIGNED BY B. KIBBINS
DATE 11/06/23

ENGINEER'S SEAL
PROVINCE OF MANITOBA
ORIGINAL STAMPED BY
S.S. RIHAL
2011/06/22
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT PROJECT NUMBER
11-4587

Winnipeg
THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

BISON DRIVE & PEMBINA HIGHWAY
INTERSECTION IMPROVEMENTS

SIGN STRUCTURE - STRUCTURAL NO. S753
FABRICATION DETAILS

CITY DRAWING NUMBER P-3327-22
SHEET 22 OF 24
CONSULTANT DRAWING NUMBER

G:\CAD\114587\Contract\Current\Roadway\Overhead_Sign_Structure2.dwg