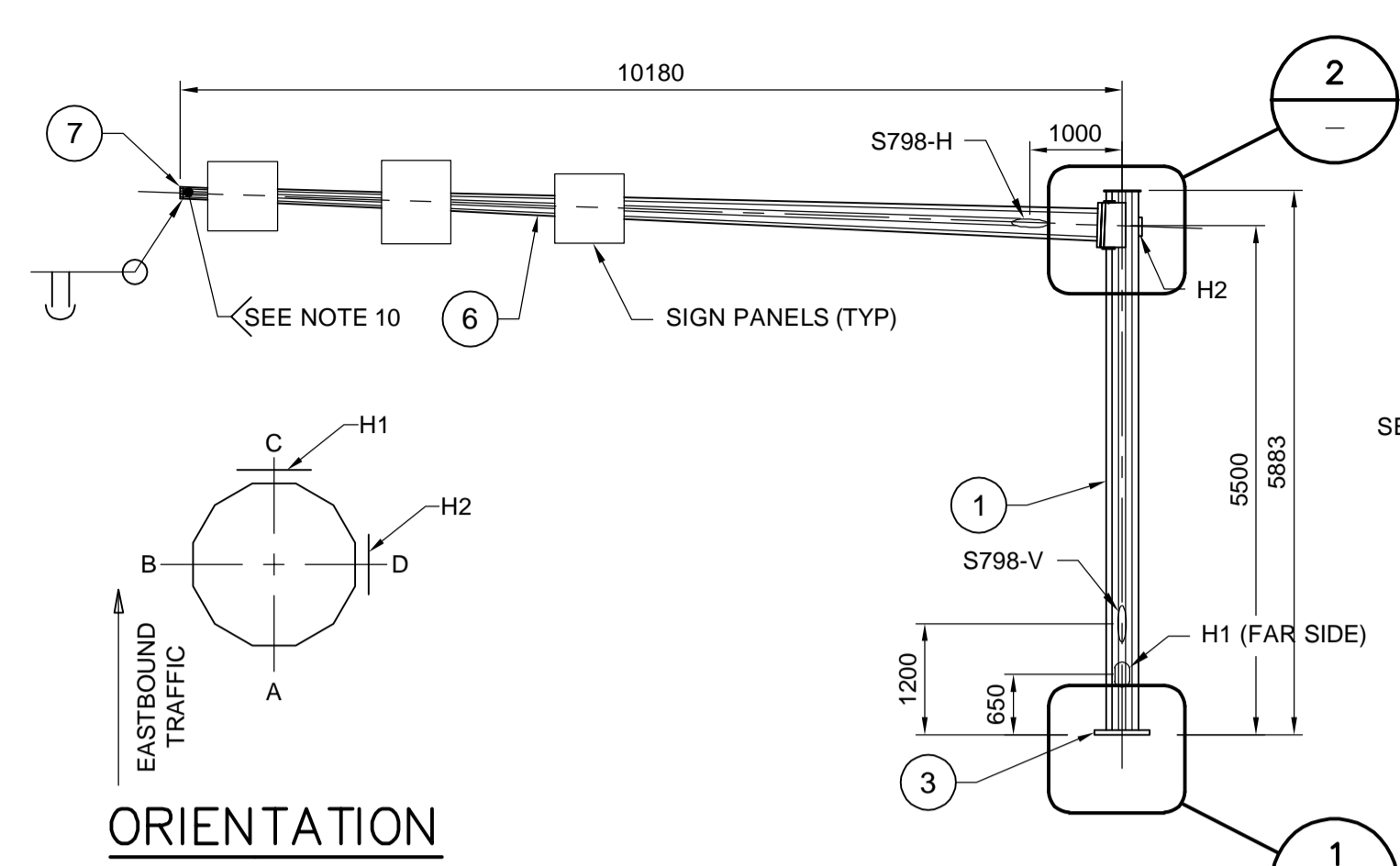
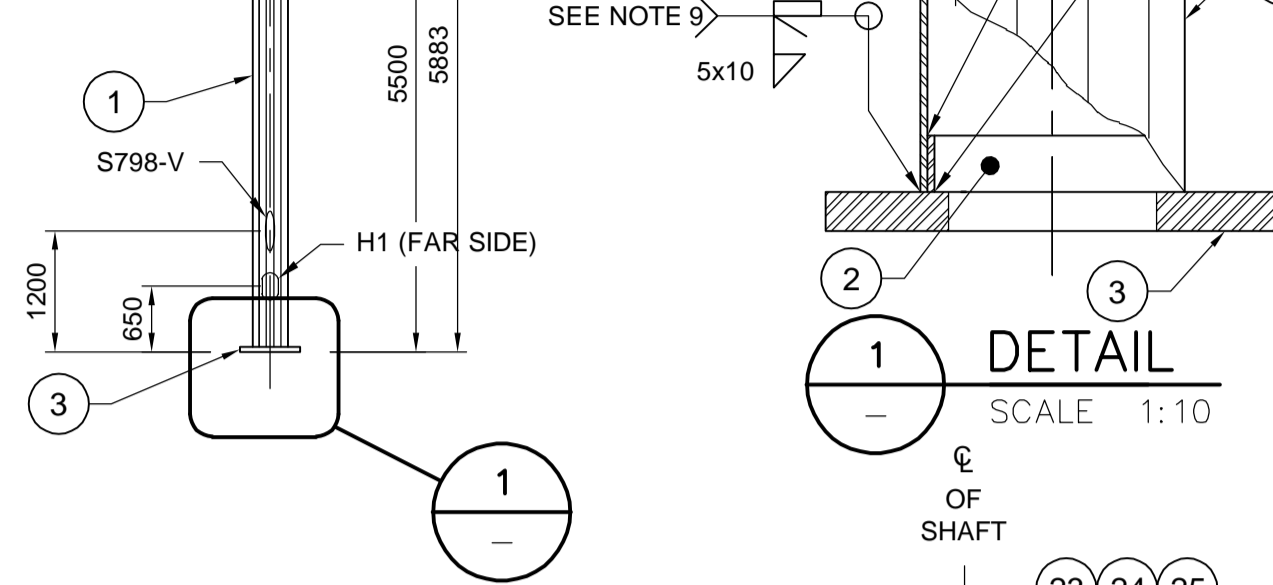


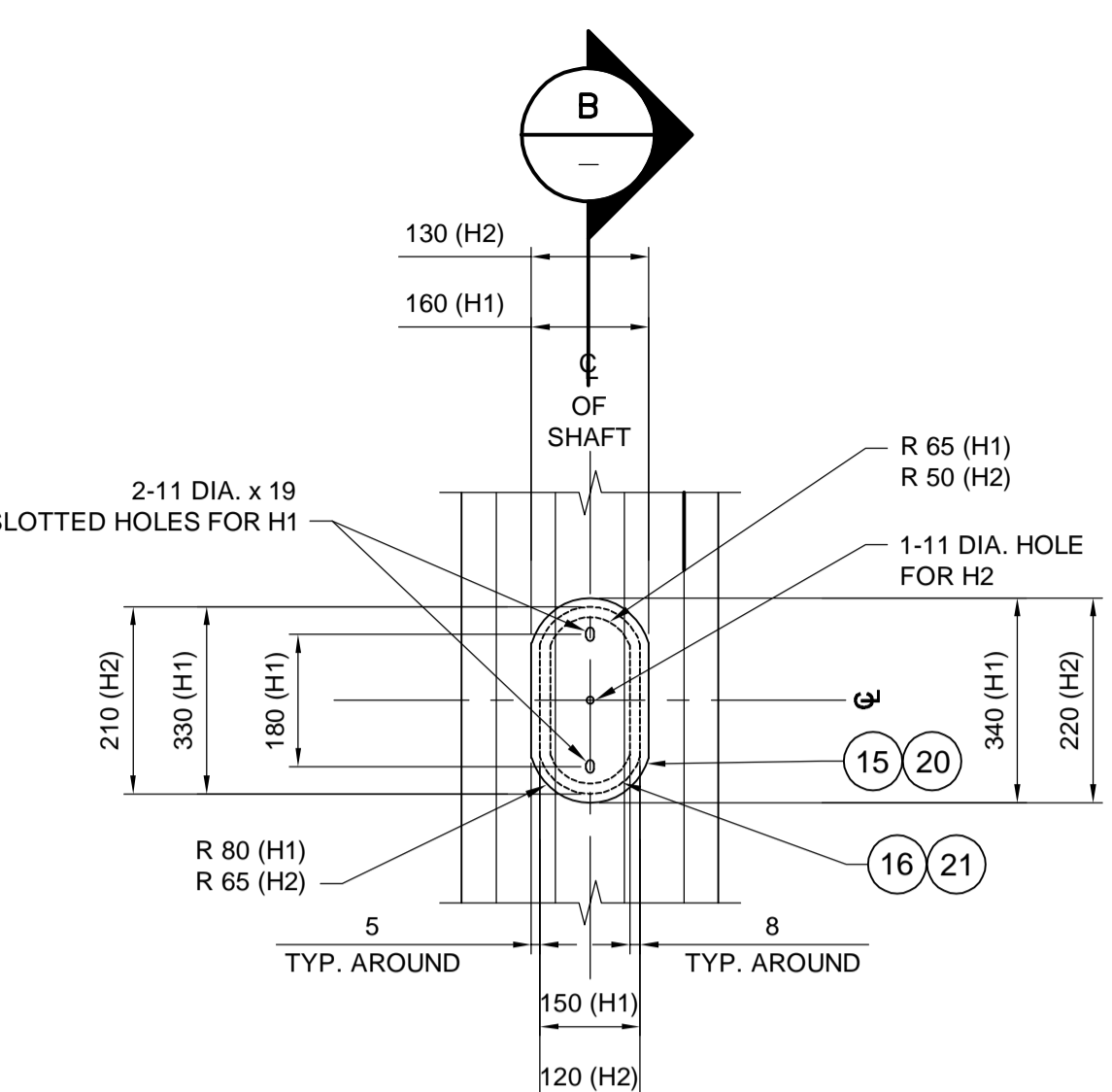
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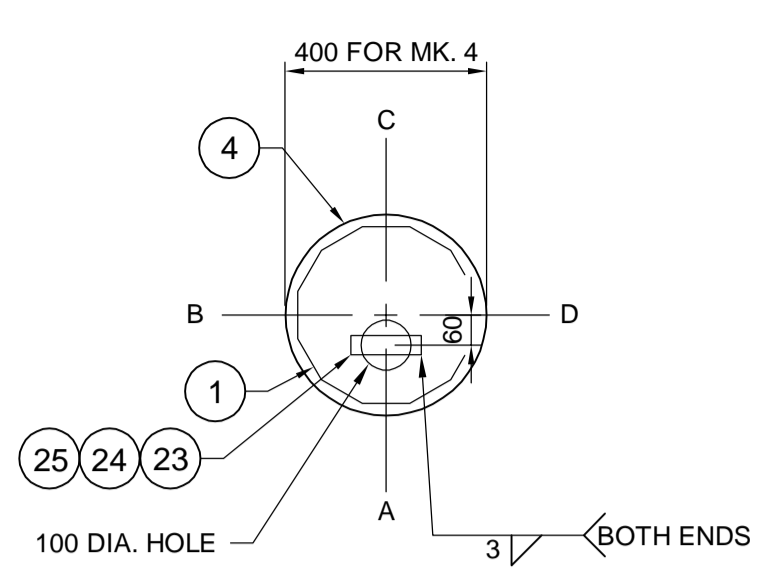
ORIENTATION
SCALE 1:15



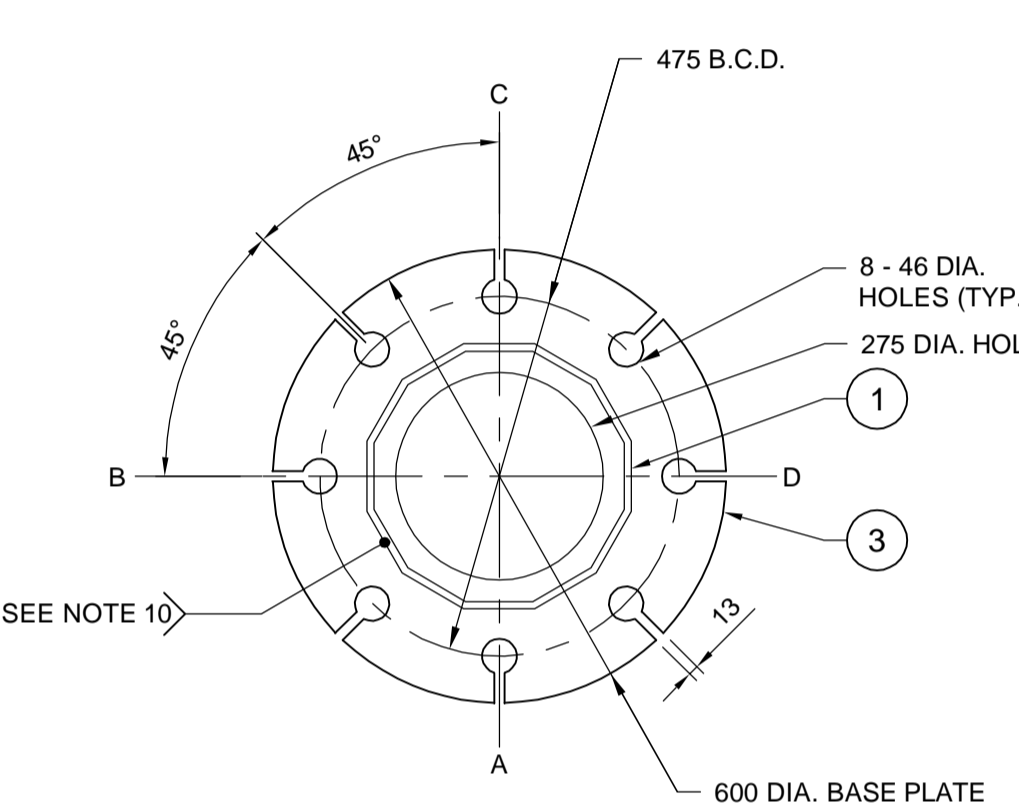
ELEVATION
SCALE 1:75



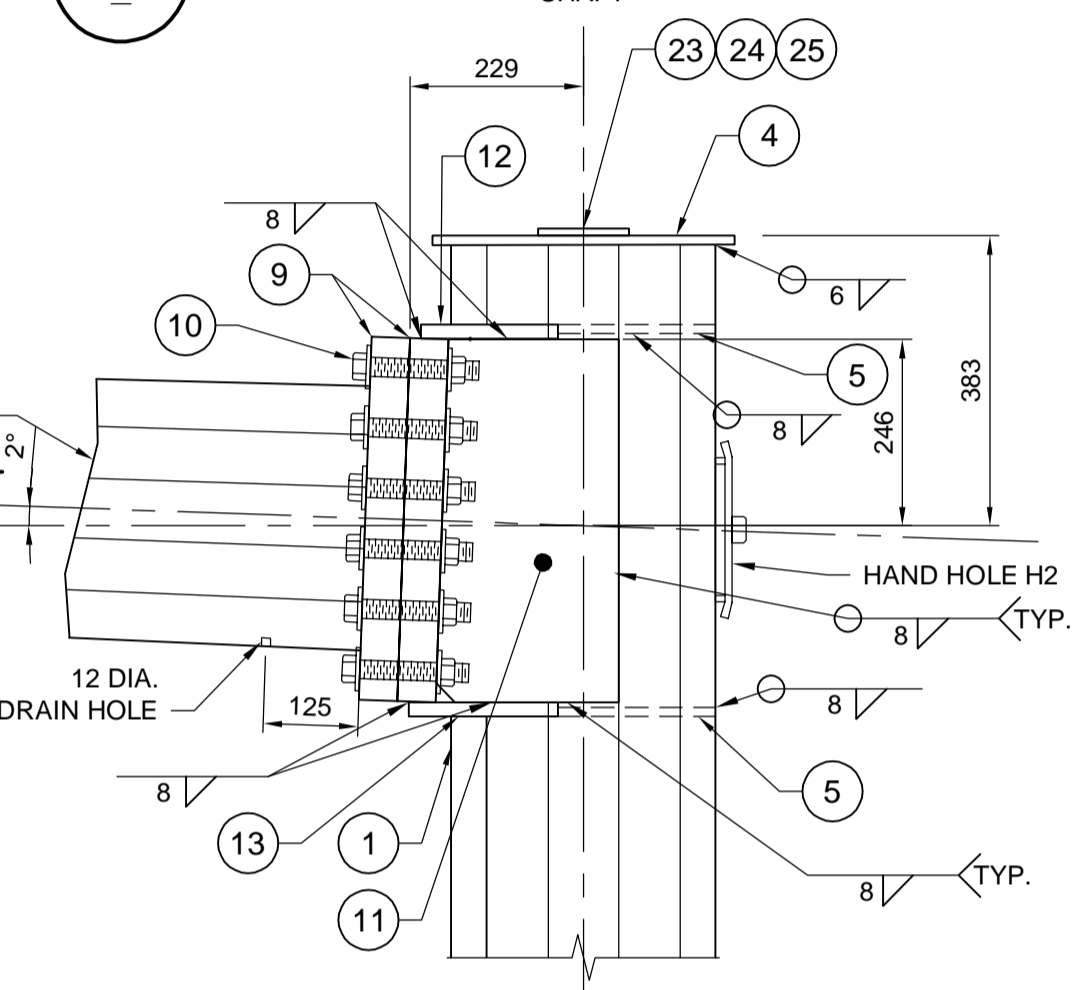
FRONT ELEVATION
SCALE 1:10



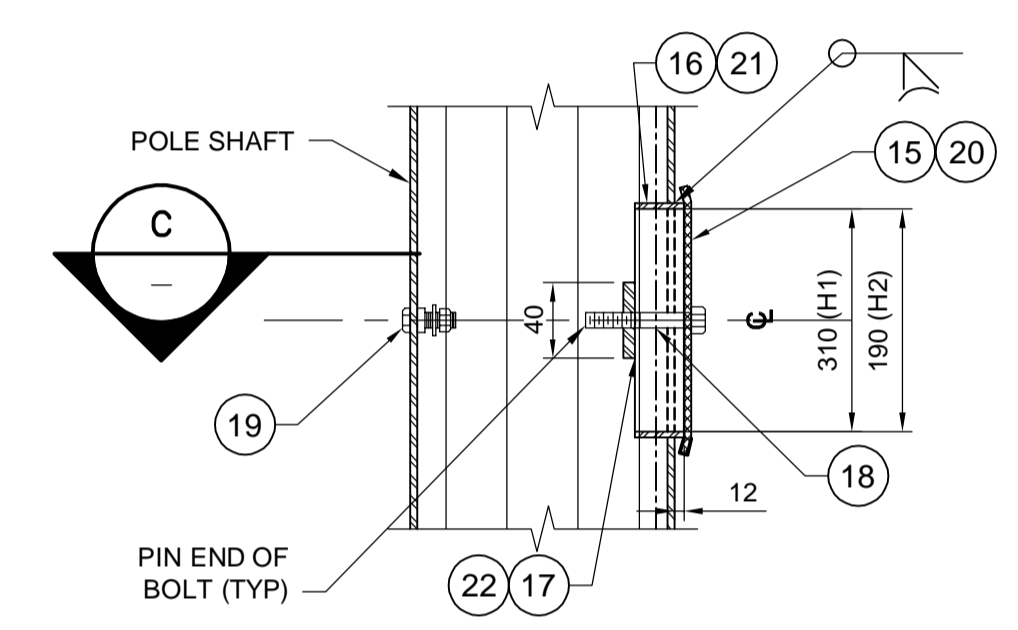
END PLATE DETAIL
SCALE 1:15



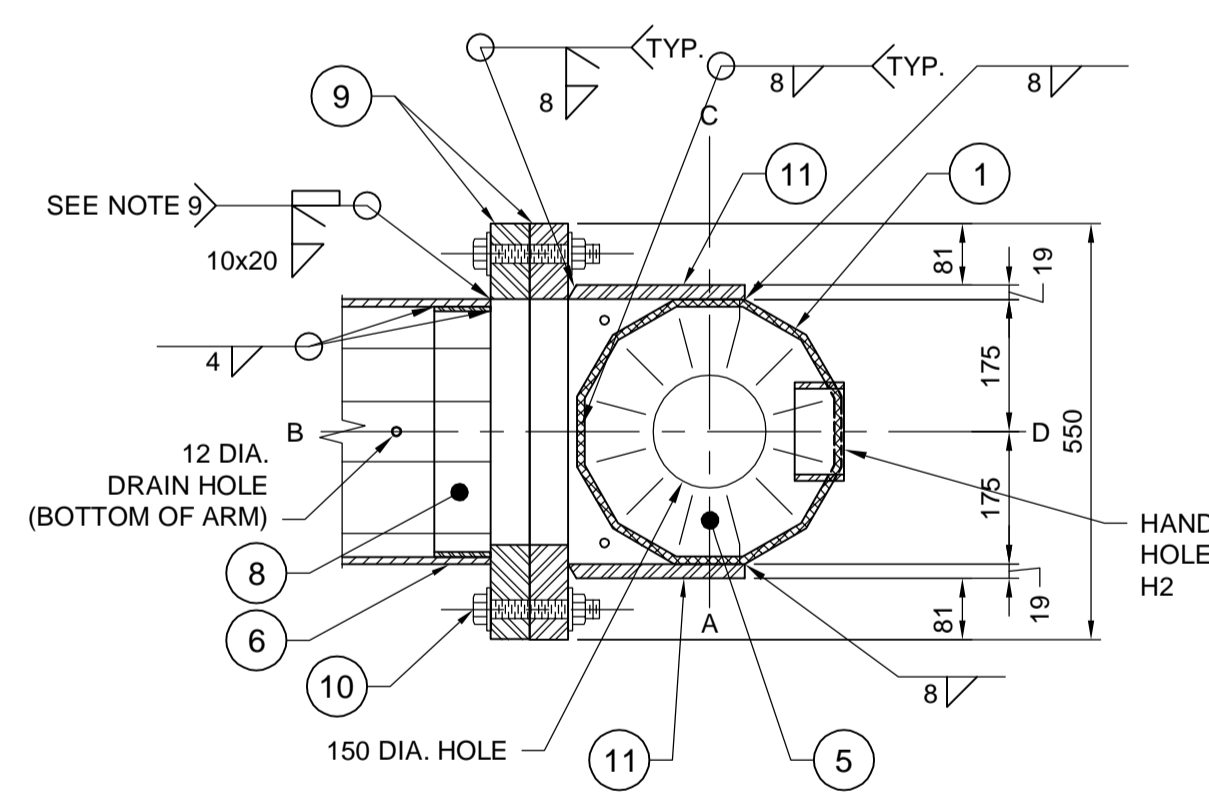
BASE PLATE DETAIL
SCALE 1:10



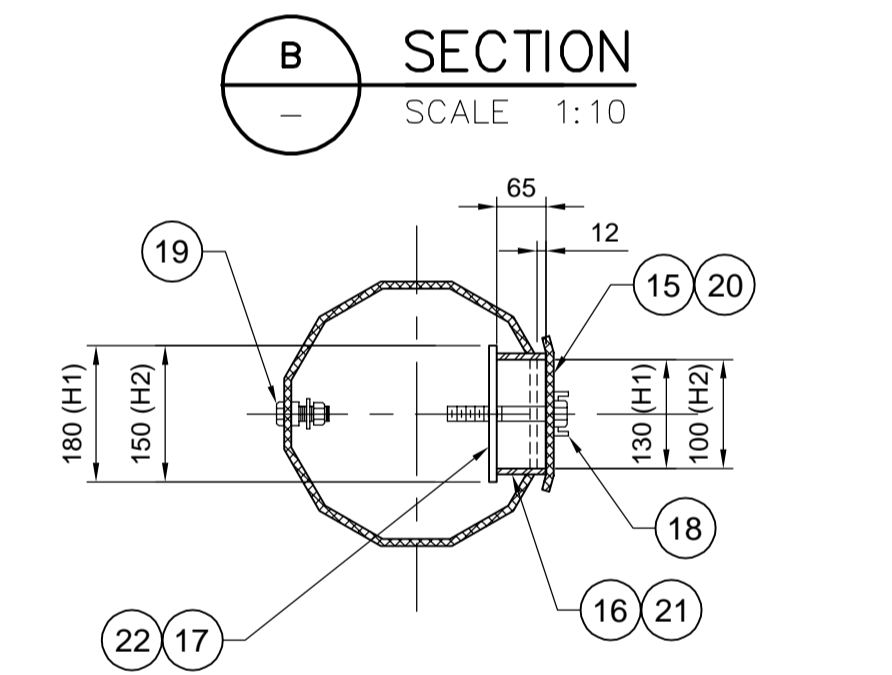
DETAIL
SCALE 1:10



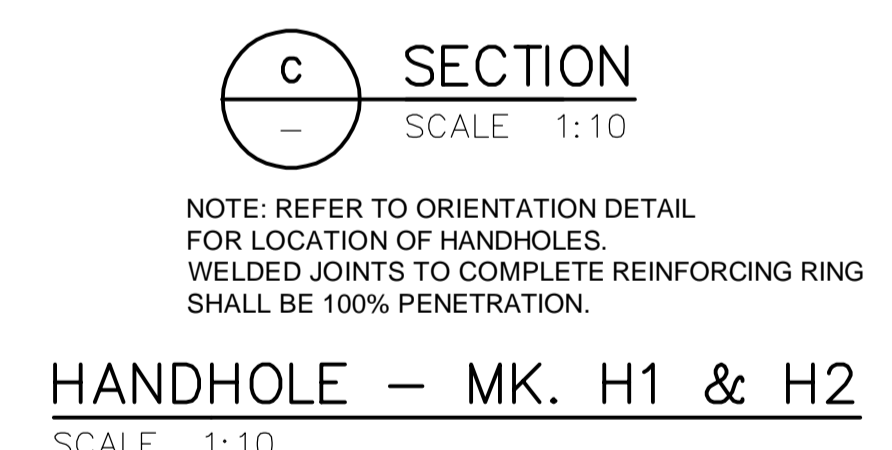
SIDE GUSSET PLATE DETAIL
SCALE 1:15



A SECTION
SCALE 1:10



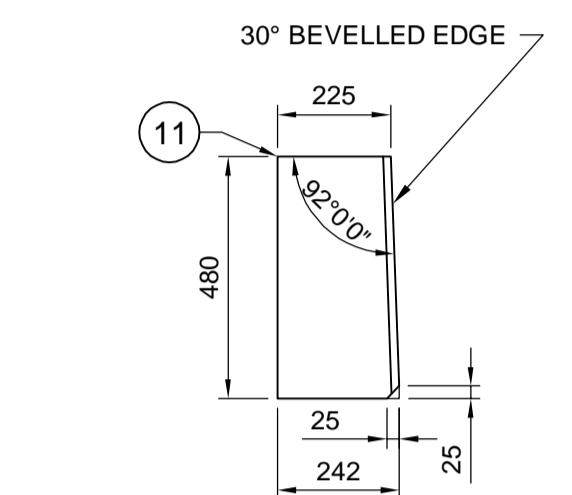
B SECTION
SCALE 1:10



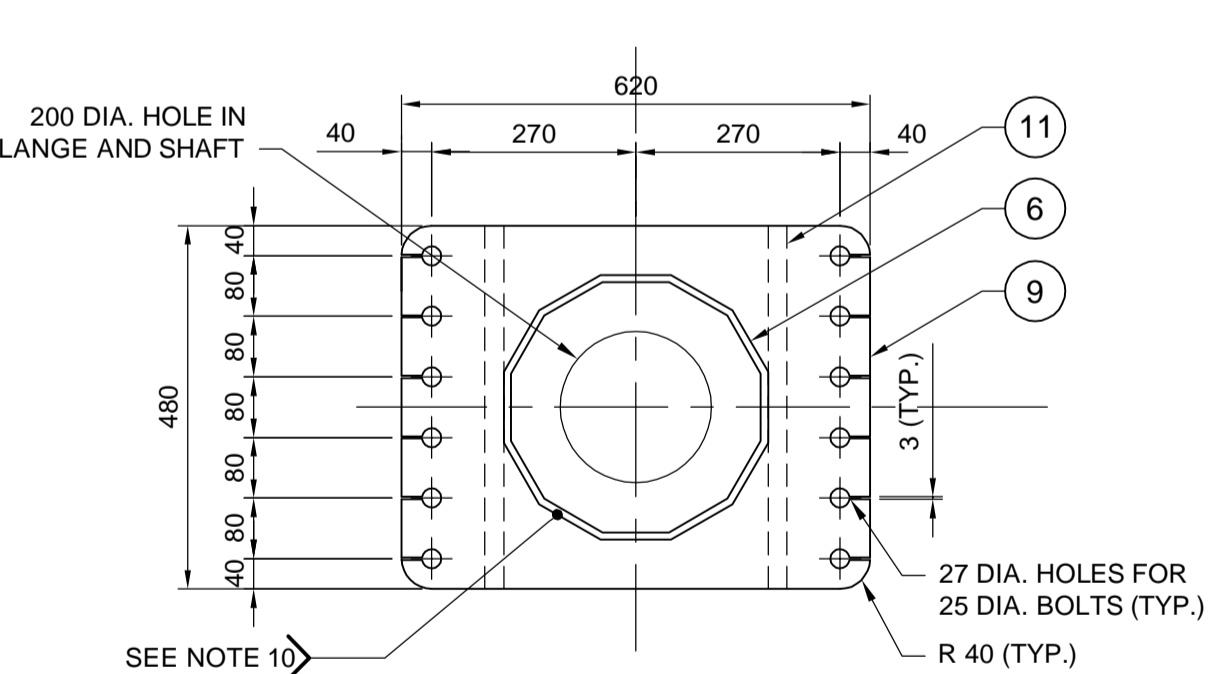
C SECTION
SCALE 1:10

NOTE: REFER TO ORIENTATION DETAIL FOR LOCATION OF HANDHOLES. WELDED JOINTS TO COMPLETE REINFORCING RING SHALL BE 100% PENETRATION.

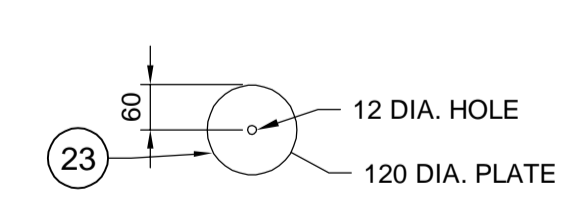
HANDHOLE - MK. H1 & H2
SCALE 1:10



GUSSET PLATE DETAIL
SCALE 1:15



FLANGE PLATE DETAIL
SCALE 1:10



CAP PLATE DETAIL
SCALE 1:10

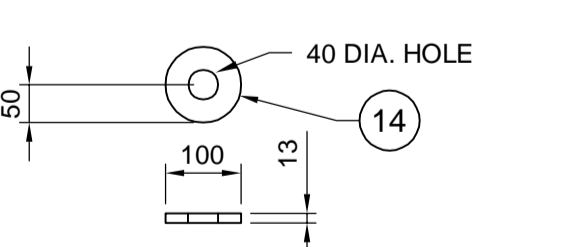
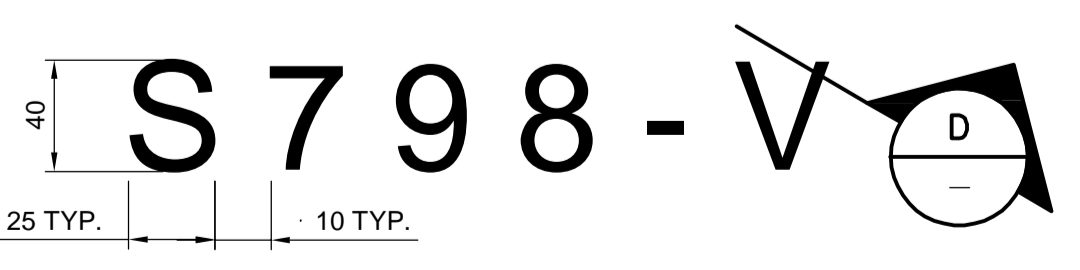
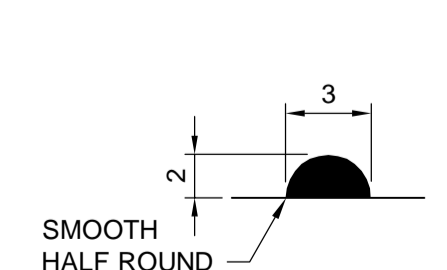


PLATE WASHER DETAIL
SCALE 1:10



STRUCTURE IDENTIFICATION NUMBER SIZE
SCALE NTS



D SECTION
SCALE NTS

ENGINEERS
GEOSCIENTISTS
MANITOBA
Certificate of Authorization
AECOM Canada Ltd.
No. 4671 Date: 23/05/23

BILL OF MATERIALS

| MK. | QTY. | DESCRIPTION |
|-----|------|---|
| 1 | 1 | DODECAGONAL SHAFT 350 A/F x 6.4 THICK PLATE |
| 2 | 1 | BACK-UP STRIP 50 x 4.763 (FOR SHAFT) |
| 3 | 1 | BASE PLATE 600 DIA. x 51 THICK |
| 4 | 1 | SHAFT END PLATE 400 DIA. x 12 THICK |
| 5 | 2 | DODECAGONAL GUSSET PLATE 12 THICK |
| 6 | 1 | DODECAGONAL ARM 350 A/F TO 125 A/F x 6.4 THICK PLATE |
| 7 | 1 | DODECAGONAL END PLATE 125 A/F x 4.763 THICK |
| 8 | 1 | BACK-UP STRIP 50 x 4.763 (FOR ARM) |
| 9 | 2 | FLANGE PLATE 51 THICK |
| 10 | 12 | 25 DIA. BOLTS C/W NUT & 2 WASHERS (ASTM A325, TYPE 1, GALV.) |
| 11 | 2 | SIDE GUSSET PLATE 19 THICK |
| 12 | 1 | GUSSET PLATE 19 THICK |
| 13 | 1 | GUSSET PLATE 19 THICK |
| 14 | 16 | PLATE WASHER 13 THICK |
| 15 | 1 | HANDHOLE MARK H1 |
| 16 | 1 | COVER PLATE 11 GA. x 160x340 (ASTM A569) |
| 17 | 2 | CLAMP BAR 6 x 40 x 180 |
| 18 | 2 | 10 DIA. x 140 BOLT S/S (TYPE 316) |
| 19 | 1 | GROUND STUD ASSEMBLY 10 DIA. x 40 |
| 20 | 1 | COVER PLATE 11 GA. x 130 x 220 (ASTM A569) |
| 21 | 1 | REINFORCING RING 8 x 65 x 555 |
| 22 | 1 | CLAMP BAR 6 x 40 x 150 |
| 23 | 1 | CAP PLATE, 120 DIA. x 3 THICK |
| 24 | 1 | CAP RETAINER BACKING BAR 140 x 38 x 6, C/W THREADED HOLE AT CENTER FOR MK. 31 |
| 25 | 1 | 10 DIA S/S BOLT C/W FLAT S/S WASHER |

- * NOTES:**
- MARK NO. 17 & 22 C/W 8-DIA. PUNCHED 10 N.C. TAPPED AT THE CENTER OF PLATE.
 - MARK NO. 18 C/W CUP WASHER.
 - MARK NO. 19 C/W 2-10 DIA. HEX NUT, 2-TERMINAL WASHER & 1-LOCKWASHER.

GENERAL NOTES

- DESIGN DATA**
 - AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 1TH EDITION, INCLUDES 2022 INTERIM REVISIONS.
 - DESIGN WIND LOAD ON SIGN = 1.8 kPa
 - DESIGN WIND LOAD ON POST = 1.2 kPa
 - DESIGN ICE LOAD = 0.15 kPa
 - FATIGUE CATEGORY I CONSIDERING NATURAL WIND GUSTS, TRUCK INDUCED GUSTS, AND GALLOPING.
- ALL PLATE MATERIALS SHALL BE CSA G40.21 - 300W STRUCTURAL STEEL.
- ALL MATERIALS EXCEPT STAINLESS STEEL AND ALUMINUM SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 TO A MIN. NET RETENTION OF 610 gm/m² UNLESS INDICATED OTHERWISE.
- ALL AREAS OF DAMAGED GALVANIZING SHALL BE REPAIRED WITH SPRAY-ON COATING CALLED "ZINGA" OR APPROVED EQUIVALENT, HAVING A MINIMUM 96% ZINC CONTENT IN THE DRY FILM.
- SIGNS**
 - 3 SIGN PANELS, LANE DESIGNATION SIGNS 750x750mm AND ROUTE 42 SIGN 750x900mm AS SHOWN ON SHEET 6. SUPPLIED AND INSTALLED BY THE CITY.
 - MOUNTING BRACKET FOR SIGNS PROVIDED AND INSTALLED BY THE CITY.
 - SIGN PANELS SHALL BE INSTALLED ON THE SIGN SUPPORT STRUCTURE IMMEDIATELY FOLLOWING ERECTION OF THE SUPPORT STRUCTURE (SAME DAY).
- INSTALL HOLES IN THE GUSSET PLATES FOR DRAINAGE DURING GALVANIZING AS DETAILED.
- PROVIDE "RAISED" IDENTIFICATION NO. WITH WELDING ELECTRODE FOR THE SIGN STRUCTURE.
- GRIND ALL SHARP POINTS AND EDGES.
- EXTERIOR WELD JOINING SHAFT TO TRANSVERSE PLATE SHALL BE AN UNEQUAL LEG COMPLETE PENETRATION WELD WITH THE LONG LEG OF THE WELD ALONG THE SHAFT TERMINATING AT 30° FROM THE SHAFT SURFACE.
- SEAM WELDS SHALL BE 100% PENETRATION WITHIN 200mm OF BOTH ENDS OF THE VERTICAL AND ARM SHAFTS.
- STRUCTURAL BOLTS FOR FLANGE AND SPLICE CONNECTIONS SHALL BE TIGHTENED IN ACCORDANCE WITH THE TURN-OF-NUT METHOD.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

| | | | | | |
|---------------------------------|----------------------|-------------------------------|---|--|---------------------|
| B.M. ELEV. | AECOM | | ENGINEER'S SEAL PROVINCE OF MANITOBA <i>F. TABET</i> Member 33659 MAY 23, 2023 REGISTERED PROFESSIONAL ENGINEER | THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION | CITY DRAWING NUMBER |
| | DESIGNED BY: CC | CHECKED BY: FT | | | S-798-23-02 |
| | DRAWN BY: KC | APPROVED BY: EBL | 2023 REGIONAL STREET RENEWAL PROGRAM LOGAN AVENUE PAVEMENT RECONSTRUCTION | | SHEET 7 OF 7 |
| 0 ISSUED FOR TENDER 23/05/23 FT | HOR. SCALE: AS NOTED | RELEASED FOR CONSTRUCTION BY: | S-798 EASTBOUND LOGAN OVERHEAD SIGN SUPPORT STRUCTURE FABRICATION DETAILS | | 7 |
| A ISSUED FOR REVIEW 23/05/12 FT | VERTICAL: NOTED | - | | | |
| NO. REVISIONS | DATE | BY | DATE: 2023-05-12 | DATE: - | |

CONSULTANT DRAWING NO. CS-02