

GENERAL NOTES

DESIGN DATA

- AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 5TH EDITION, 2009.
- DESIGN WIND LOADS = 1.50 kPa (30 PSF)
- DESIGN ICE LOAD = 0.15 kPa (3 PSF)
- ALL MATERIALS ARE CSA G40.21 - 350W STRUCTURAL STEEL UNLESS OTHERWISE NOTED.
- ALL MATERIALS EXCEPT STAINLESS STEEL AND ALUMINUM ARE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 TO A MINIMUM NET RETENSION OF 600 g/m.
- ALL AREAS OF DAMAGED GALVANIZING REPAIRED WITH SELF-FLUXING LOW TEMPERATURE, ZINC BASED ALLOY ROD OR SPRAY ON COATING CALLED "ZINGA".
- DESIGN TO FATIGUE CATEGORY II FOR ALL LOAD CASES.

SIGNS

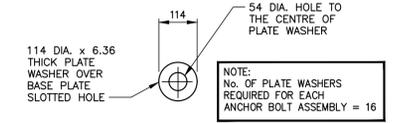
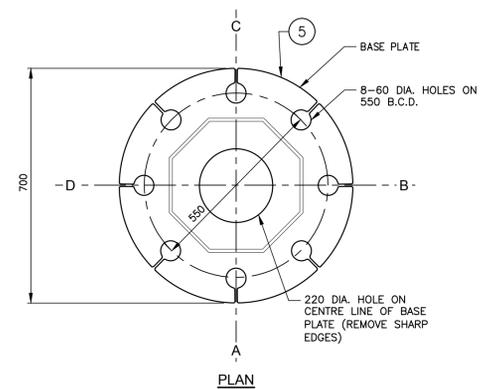
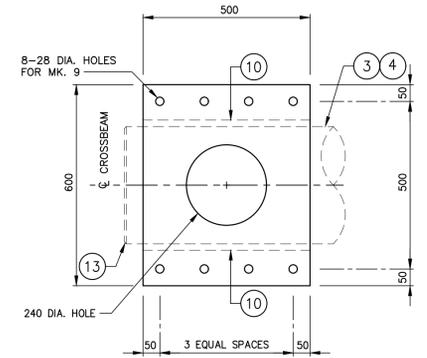
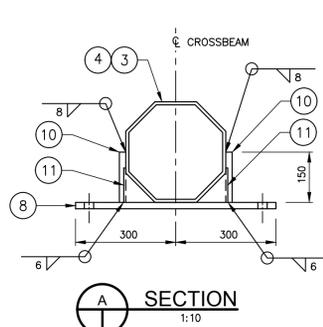
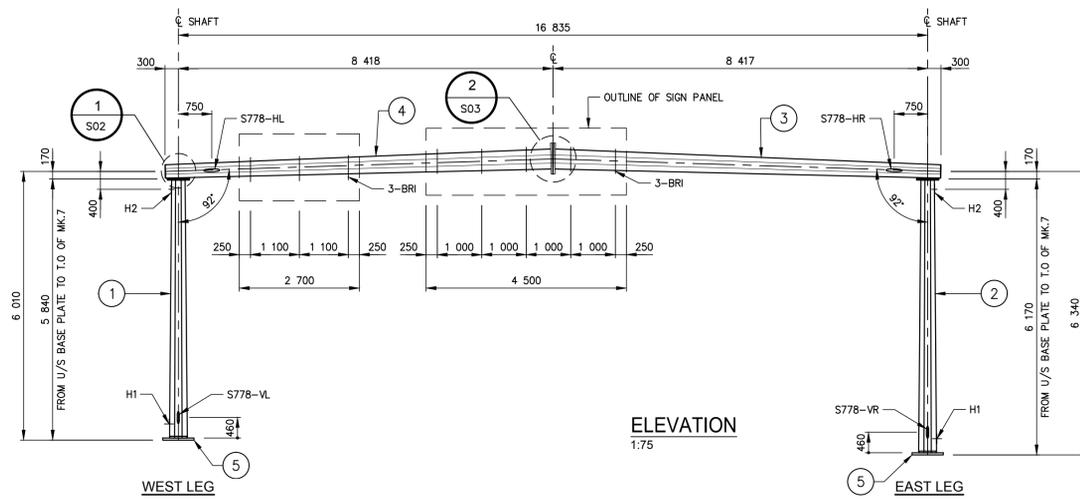
- TWO SIGN PANELS

SIZES:

- 1 - 2 700 x 1 500
- 1 - 4 500 x 1 500

SUPPLIED BY THE CITY OF WINNIPEG TRAFFIC SERVICES BRANCH.

- INSTALL HOLES IN THE GUSSET PLATES FOR DRAINAGE DURING GALVANIZING AS DETAILED.
- INSTALL 12 mm DIAMETER VENT HOLE IN CENTRE OF CROSSBEAM COVER PLATE TO BE FILLED WITH PLASTIC PLUG AFTER GALVANIZING.
- LONGITUDINAL SEAM WELD SHALL HAVE 60% PENETRATION EXCEPT WITHIN 150 mm OF BASE PLATES AND FLANGE PLATES WHERE IT SHALL BE 100% PENETRATION.



ROUND PLATE WASHER DETAIL
1:10

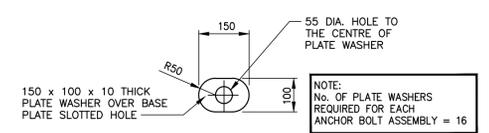
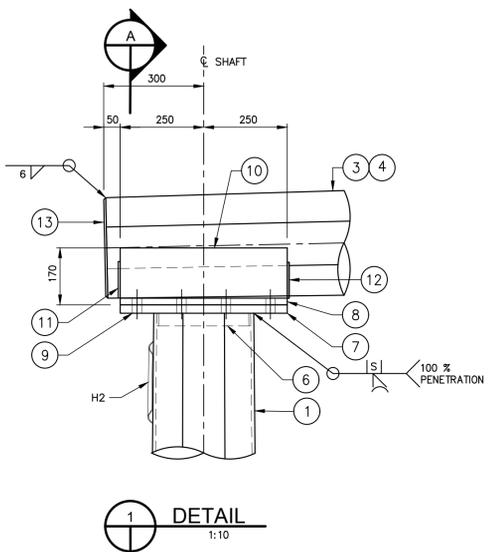
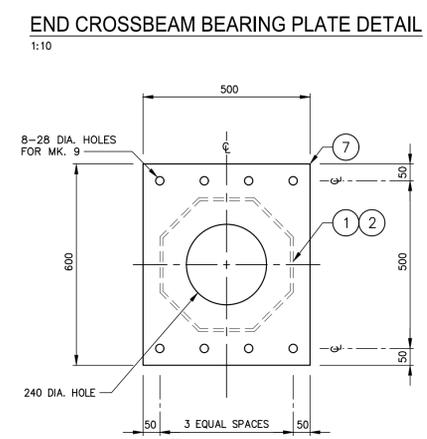


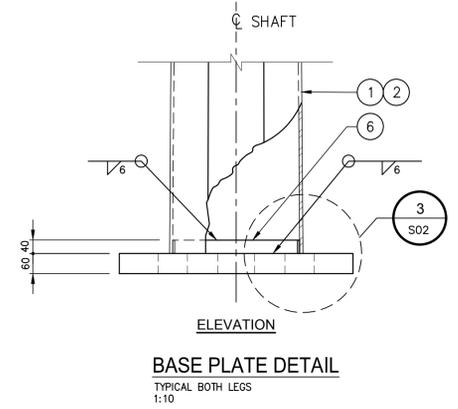
PLATE WASHER DETAIL
1:10



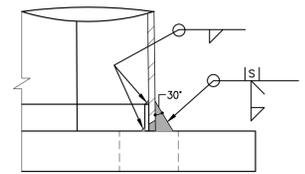
DETAIL
1:10



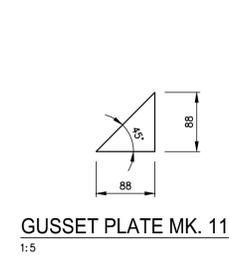
TOP SHAFT BEARING PLATE DETAIL
1:10



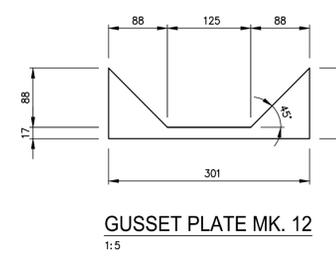
BASE PLATE DETAIL
TYPICAL BOTH LEGS
1:10



WELD DETAIL
1:10



GUSSET PLATE MK. 11
1:5



GUSSET PLATE MK. 12
1:5

NOTE: These design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract.

LOCATIONS APPROVED UNDERGROUND STRUCTURES

SIGNED BY: _____ DATE: _____

SUP' U/G STRUCTURES

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

| NO. | REVISIONS | DATE | BY |
|-----|----------------------------------|-----------|----|
| 5 | ADDENDUM 2 | 27.MAY.16 | VM |
| 4 | ADDENDUM 1 | 26.MAY.16 | VM |
| 3 | ISSUED FOR TENDER | 16.MAY.16 | VM |
| 2 | ISSUED TO UNDERGROUND STRUCTURES | 16.MAY.16 | VM |
| 1 | ISSUED FOR CLIENT REVIEW | 28.APR.16 | VM |

MMM GROUP

DESIGNED BY: **MGM** CHECKED BY: **TR/EH**

DRAWN BY: **KD** APPROVED BY: **JPL**

HOR. SCALE: **AS NOTED** RELEASED FOR CONSTRUCTION

VERTICAL SCALE: **AS NOTED**

DATE: **MAY 16 2016**

ENGINEER'S SEAL

PROVIDE OF QUALITY REGISTERED PROFESSIONAL ENGINEER

J. P. LUKASHENKO

CONSULTANT ACAD DWG. NO. **5516006-S-02**

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

PEMBINA HIGHWAY
FROM CARTER AVENUE TO OSBORNE STREET

OVERHEAD SIGN STRUCTURES
S778- FABRICATION DETAILS (1 OF 2)

CITY DRAWING NUMBER
SHEET **23** OF **27**

BID NO. **386-2016**

APEGM
Certificate of Authorization
MMM Group Limited
No. **4531**

May 26, 2016 - 11:09am
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