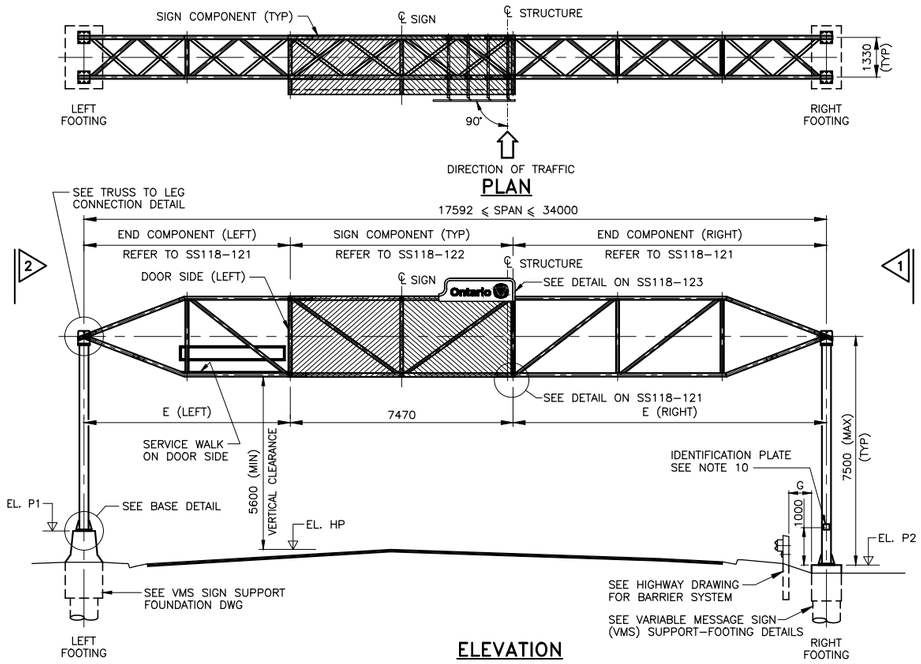
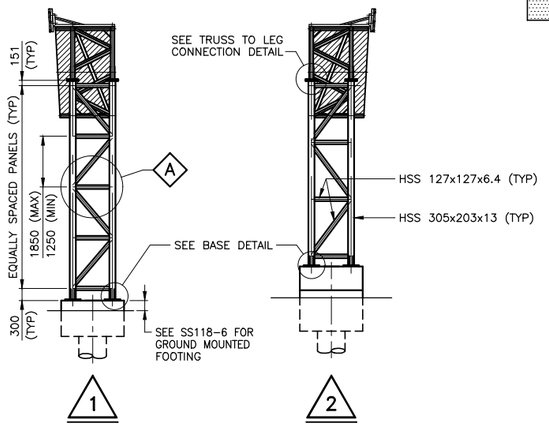
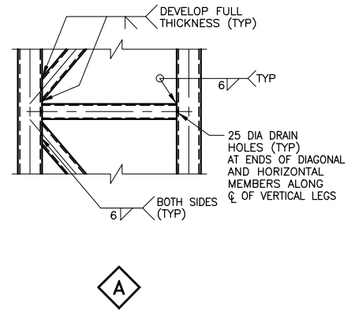






NOTES TO DESIGNER:

1. DIMENSION G IS DEFINED AS THE HORIZONTAL CLEARANCE FROM THE BACK OF PROTECTIVE BARRIER TO THE NEAREST FACE OF CONCRETE FOOTING ACCORDING TO THE VALUES BELOW. THIS DOES NOT APPLY TO TEMPORARY CONCRETE BARRIER INSTALLATIONS.

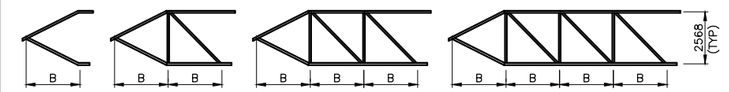
PROTECTIVE BARRIER TYPE	MINIMUM CLEARANCE (m)
STEEL BEAM GUIDE RAIL	1.0
PERMANENT CONCRETE BARRIER	0.3

2. THE 'NOTES TO DESIGNER' SHALL BE DELETED FROM THIS DRAWING PRIOR TO ISSUING.

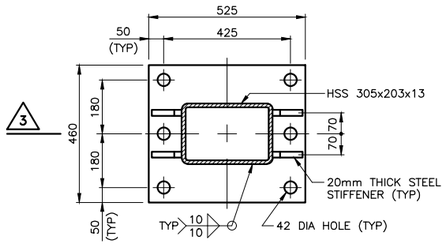
TABLE 1 – GENERAL

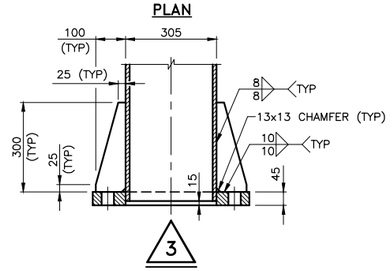
STATION		---								
SITE No.		---								
SPAN		---								
TRUSS DIAGRAM		☐								
END COMPONENT (LEFT)	TYPE P–	---								
	E (LEFT)	---								
	B (LEFT)	---								
END COMPONENT (RIGHT)	TYPE P–	---								
	E (RIGHT)	---								
	B (RIGHT)	---								
G		---								
EL.HP		---								
EL.P1		---								
EL.P2		---								
DOOR SIDE		---								
FOOTING TYPE (LEFT)		---								
FOOTING TYPE (RIGHT)		---								

END COMPONENTS

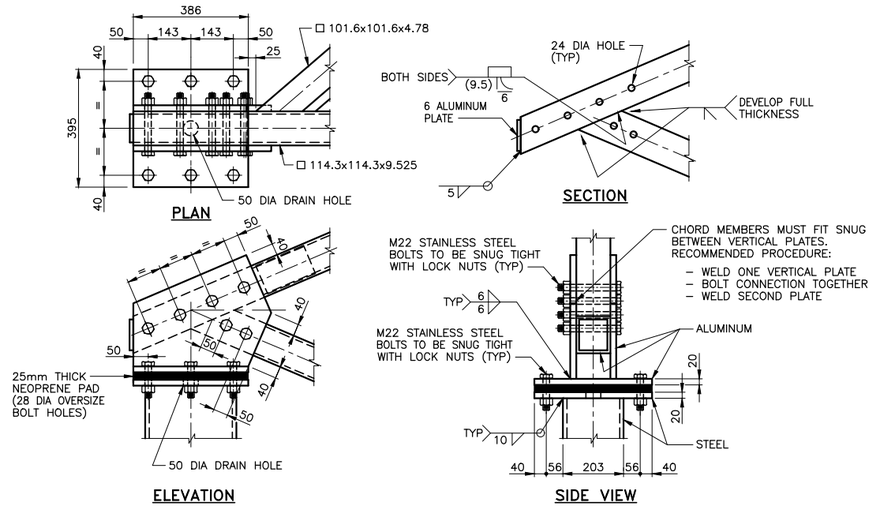


NOTE: END COMPONENTS ARE AS SHOWN AND OPPOSITE HAND





BASE DETAIL (TYPICAL)



TRUSS TO LEG CONNECTION DETAIL (TYPICAL)

GENERAL NOTES:

1. ALL ALUMINUM EXTRUDED TUBE SECTIONS SHALL BE ALLOY 6061–T6 UNLESS NOTED.
2. ALUMINUM COMPONENTS SHALL BE MADE OF ALLOY 6061–T6.
3. ALL STRUCTURAL STEEL SHALL BE ACCORDING TO CSA G40.20/G40.21 GRADE 350W.
4. ALL BOLTS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL, AND SHALL BE ACCORDING TO ASTM F593 ALLOY 304 WITH A MINIMUM YIELD OF 480MPa AND A MINIMUM TENSILE STRENGTH OF 715MPa.
5. STRUCTURE SHALL NOT BE ERECTED UNTIL FOUNDATION HAS REACHED 80% OF SPECIFIED STRENGTH.
6. SPAN LENGTHS AND ELEVATIONS TO BE VERIFIED IN THE FIELD BEFORE SIGN SUPPORT STRUCTURE FABRICATION.
7. ALL STRUCTURAL STEEL SHALL BE HOT–DIP GALVANIZED AFTER FABRICATION. LEGS SHALL BE SUBSEQUENTLY COATED WITH AN APPROVED PAINT SYSTEM ACCORDING TO OPSS 911.
8. THIS STANDARD TO BE READ IN CONJUNCTION WITH SS118–121 (END COMPONENT – DETAILS), SS118–122 (SIGN COMPONENT – DETAILS), AND SS118–123 (VARIABLE MESSAGE TRILLIUM SIGN TAB).
9. THIS STANDARD TO BE READ IN CONJUNCTION WITH SS118–6 (GROUND MOUNTED FOOTING) AND/OR SS118–7 (MEDIAN MOUNTED FOOTING – SYMMETRICAL) AND/OR SS118–8 (MEDIAN MOUNTED FOOTING – ASYMMETRICAL).
10. EACH SIGN SUPPORT SHALL HAVE AN IDENTIFICATION MARKING SHOWING THE SITE NUMBER, THE MANUFACTURER'S NAME OR TRADEMARK, AND THE DATE OF MANUFACTURE. THIS MARKING SHALL BE ON A CORROSION PROTECTED PLATE SECURELY ATTACHED TO THE LEG OF THE STRUCTURE BY MEANS OF STAINLESS STEEL BAND CLAMPS.
11. NO SHOP SPLICES IN ANY MEMBER.
12. LEGEND:
    HSS – DENOTES HOLLOW STRUCTURAL STEEL
    ☐ – DENOTES ALUMINUM SQUARE TUBE

ERECTION NOTES:

1. COMPONENTS ARE ASSEMBLED ON SITE PRIOR TO ERECTION.
2. ALL CHORD SPLICE CONNECTION BOLTS MUST BE PROPERLY TIGHTENED PRIOR TO LIFTING BY TURN–OF–NUT METHOD OR EQUIVALENT.
3. ALL LEG UPPER CONNECTION BOLTS MUST BE SNUG TIGHT WITH LOCK–NUTS AND ALL ANCHOR BOLTS PROPERLY TIGHTENED PRIOR TO RELEASE OF CRANE.

REFER TO THE SIGN SUPPORT MANUAL FOR PROFESSIONAL ENGINEER STAMPING REQUIREMENTS.

Ontario Ministry of Transportation

CONT – WP –

DRAFT

PROJECT NAME,
MID–SIZE VARIABLE MESSAGE SIGN (VMS) SUPPORT STRUCTURE GENERAL ARRANGEMENT

SHEET –

METRIC
MILLIMETRES OR METRES
(UNLESS NOTED)

STANDARD DRAWING
OCTOBER 31, 2024

SS118–120

MID–SIZE VARIABLE MESSAGE SIGN (VMS) SUPPORT STRUCTURE GENERAL ARRANGEMENT

REVISIONS		
DATE	BY	DESCRIPTION

DESIGN	–	CHK	–	CODE CSA–S6–19	LOAD	–	DATE –
DRAWN	–	CHK	–	SITE –			DWG –

FILE NAME: C:\USERS\WEZIAKV\ONEDRIVE – GOVERNMENT OF ONTARIO\DESKTOP\CHRIS PARSONS 118 2021 22\S118–120 DRAFT OCT 31 2024.DWG
MODIFIED: 2024–10–31 15:19