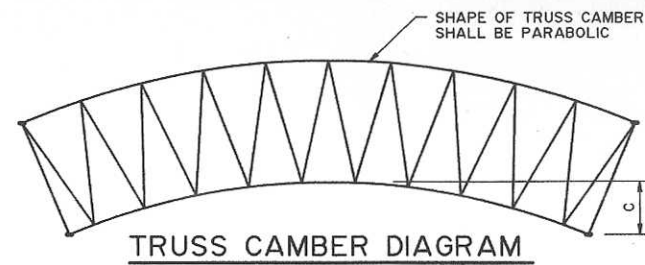
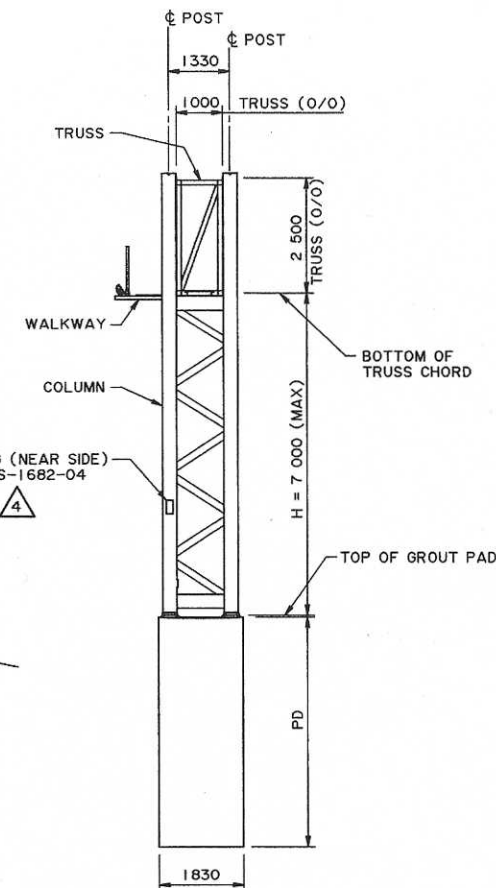


TRUSS PLAN
1:75



TRUSS CAMBER DIAGRAM



END ELEVATION
1:75

FRONT ELEVATION
25 000 SPAN SHOWN 1:75

VARIABLE DIMENSIONS		10 001 TO 15 000	15 001 TO 20 000	20 001 TO 25 000	25 001 TO 30 000	30 001 TO 35 000
S	SPAN	10 001 TO 15 000	15 001 TO 20 000	20 001 TO 25 000	25 001 TO 30 000	30 001 TO 35 000
C	CAMBER	15	25	30	40	50
N	NUMBER OF PANELS	6	8	10	12	14
P	PANEL LENGTH	SPAN/6	SPAN/8	SPAN/10	SPAN/12	SPAN/14
PD	PILE DEPTH	4 750	5 000	5 250	5 500	5 750

MATERIALS										
MK	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION
CP	4	HSS 305 x 305 x 8.0	4	HSS 305 x 305 x 8.0	4	HSS 305 x 305 x 9.5	4	HSS 305 x 305 x 12.7	4	HSS 305 x 305 x 12.7
CT	4	HSS 305 x 305 x 8.0	4	HSS 305 x 305 x 8.0	4	HSS 305 x 305 x 9.5	4	HSS 305 x 305 x 12.7	4	HSS 305 x 305 x 12.7
CB	-	HSS 152 x 152 x 4.8	-	HSS 152 x 152 x 4.8	-	HSS 152 x 152 x 4.8	-	HSS 152 x 152 x 4.8	-	HSS 152 x 152 x 4.8
TC	4	HSS 89 x 89 x 4.8	4	HSS 89 x 89 x 6.4	4	HSS 102 x 102 x 6.4	4	HSS 127 x 127 x 6.4	4	HSS 127 x 127 x 9.5
TF	10	HSS 89 x 89 x 4.8	10	HSS 89 x 89 x 6.4	10	HSS 102 x 102 x 6.4	10	HSS 127 x 127 x 6.4	10	HSS 127 x 127 x 9.5
TW	24	HSS 51 x 51 x 4.8	32	HSS 51 x 51 x 4.8	40	HSS 64 x 64 x 4.8	48	HSS 76 x 76 x 4.8	56	HSS 76 x 76 x 4.8
TD	12	HSS 51 x 51 x 4.8	16	HSS 51 x 51 x 4.8	20	HSS 64 x 64 x 4.8	24	HSS 76 x 76 x 4.8	28	HSS 76 x 76 x 4.8
TH	48	HSS 51 x 51 x 4.8	64	HSS 51 x 51 x 4.8	80	HSS 64 x 64 x 4.8	96	HSS 76 x 76 x 4.8	112	HSS 76 x 76 x 4.8

QUANTITY ESTIMATE - 2 PILES									
ITEM	UNIT	ESTIMATE	ESTIMATE	ESTIMATE	ESTIMATE	ESTIMATE	ESTIMATE	ESTIMATE	ESTIMATE
CONCRETE - 25 MPa	m ³	25	26	28	29	30			
REINFORCING STEEL	kg	1 185	1 248	1 312	1 374	1 437			

BAR LIST - 2 PILES																	
MARK	SIZE	SHAPE	QTY	LENGTH (mm)	MASS (kg)	QTY	LENGTH (mm)	MASS (kg)	QTY	LENGTH (mm)	MASS (kg)	QTY	LENGTH (mm)	MASS (kg)	QTY	LENGTH (mm)	MASS (kg)
F2501	25	STR	36	4 650	657	36	4 900	692	36	5 150	728	36	5 400	763	36	5 650	798
F2001	20	A	38	5 900	528	40	5 900	556	42	5 900	584	44	5 900	611	46	5 900	639

GENERAL NOTES

- ALL DRAWINGS ARE DIMENSIONED IN MILLIMETRES, EXCEPT FOR THE GENERAL LAYOUT DRAWING WHICH IS DIMENSIONED IN METRES.
- DESIGN**
 - SIGNS:** SIGN STRUCTURES ARE DESIGNED TO CARRY 3 m HIGH SIGNS COVERING 60% OF THE LENGTH OF THE SPAN OR 13 m, WHICHEVER IS GREATER. THE SIGNS ARE PLACED ON THE SPAN SO AS TO OBTAIN THE MAXIMUM LOAD EFFECTS.
 - LIVE LOAD:** 2 kN CONCENTRATED POINT LOAD ON WALKWAY.
 - ICE LOAD:** 12 mm ICE THICKNESS ON ALL FACES OF STRUCTURE MEMBERS AND ON ONE FACE OF SIGNBOARDS.
 - WIND LOAD:** 7.2 kPa ON STRUCTURE MEMBERS, 3.0 kPa ON SIGNBOARDS.
 - FOUNDATIONS:** THE DESIGN OF THE FOUNDATION IS BASED ON COMPETENT SOIL EXISTING AT THE SITE. SITES WITH SOILS NOT MEETING THIS REQUIREMENT (CLAYS WITH UNCONFINED COMPRESSION STRENGTHS (qu) LESS THAN 100 kPa, SANDS WITH STANDARD PENETRATION COUNTS (N) LESS THAN 10 BLOWS PER 305 mm, SILTS, ORGANIC SOILS, ETC) REQUIRE A SPECIAL FOUNDATION DESIGN.

MATERIALS

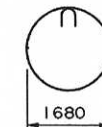
- ALL HSS MEMBERS SHALL CONFORM TO CSA G40.21M-350W.
- STEEL FOR DYWIDAG BARS AND NUTS SHALL CONFORM TO ASTM A722 TYPE II.
- ALL BOLTED CONNECTIONS SHALL BE MADE WITH ASTM A325 BOLTS, UNLESS NOTED OTHERWISE.
- ALL REINFORCING STEEL SHALL CONFORM TO CSA G30.18-M92 - GRADE 400.
- ALL OTHER STEEL SHALL CONFORM TO CSA G40.21M-300W.
- ALL CONCRETE SHALL HAVE A STRENGTH OF 25 MPa AT 28 DAYS.
- ALL GROUT SHALL BE SIKA 212.

FABRICATION

- FABRICATION SHALL BE IN ACCORDANCE WITH THE CURRENT BRIDGE BRANCH SPECIFICATION FOR THE SUPPLY OF STRUCTURAL STEEL FOR BRIDGES B187M.
- HSS MEMBERS SHALL BE CONNECTED BY WELDING UNLESS NOTED OTHERWISE. THE EFFECTIVE THROAT THICKNESS OF WELDS SHALL BE EQUAL TO THE WALL THICKNESS OF THE CONNECTED MEMBERS AND SHALL BE CONTINUOUS AROUND THE CONNECTION.
- ALL WELDING SHALL CONFORM TO AWS SPECIFICATIONS D1.5 AND D1.1 (SECTION 10).
- TRUSS SHALL BE CAMBERED AS SHOWN ON THE TRUSS CAMBER DIAGRAM. DETAILS OF TRUSS TO COLUMN CONNECTION PLATES SHALL BE ADJUSTED FOR TRUSS END ROTATIONS DUE TO CAMBER AND DEAD LOAD DEFLECTIONS.
- ALL TRUSS MEMBERS AND DETAIL MATERIAL WELDED TO THE TRUSS SHALL BE BLAST CLEANED AFTER FABRICATION AS FOLLOWS:
 - TRUSS CONTACT SURFACES OF TRUSS TO COLUMN CONNECTIONS SHALL BE BLAST CLEANED IN ACCORDANCE WITH SSPC-SP5.
 - ALL OTHER STEEL SURFACES SHALL BE BLAST CLEANED IN ACCORDANCE WITH SSPC-SP6.
- ALL STRUCTURAL STEEL, STEEL HARDWARE AND ANCHOR BOLT ASSEMBLIES EXCEPT FOR TRUSS MEMBERS AND DETAIL MATERIAL WELDED TO THE TRUSS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 OR A153 AS APPLICABLE. COLUMN CONTACT SURFACES OF TRUSS TO COLUMN CONNECTIONS SHALL BE BLAST CLEANED IN ACCORDANCE WITH SSPC-SP7 AFTER GALVANIZING.
- TRUSS CONTACT SURFACES OF TRUSS TO COLUMN CONNECTIONS SHALL RECEIVE ONE SHOP COAT OF INORGANIC ZINC PRIMER CONFORMING TO CSS2 SPECIFICATION I-GP-181M, HAVING A DRY FILM THICKNESS OF 75 MICRONS. ALL OTHER SURFACES OF TRUSS MEMBERS AND DETAIL MATERIAL WELDED TO THE TRUSS SHALL RECEIVE A COMPLETE COATING CONSISTING OF THE FOLLOWING OR APPROVED EQUIVALENT:
 - PRIMER COAT - GLIDDEN #5571 RUSTMASTER PRO PRIMER (RED) HAVING A DRY FILM THICKNESS OF 100 MICRONS.
 - INTERMEDIATE COAT - GLIDDEN #5572 RUSTMASTER PRO MID-COAT (GREY) HAVING A DRY FILM THICKNESS OF 100 MICRONS.
 - TOP COAT - GLIDDEN #6440 SERIES LIFEMASTER PRO HB ACRYLIC COATING (ALUMINUM COLOUR) HAVING A DRY FILM THICKNESS OF 100 MICRONS.
 PRIMER SHALL NOT BE APPLIED UNTIL APPROVAL OF THE BLAST CLEANING HAS BEEN OBTAINED FROM THE ENGINEER.

ERECTION

- FIELD WELDING TO HSS MEMBERS OR DETAIL MATERIAL WELDED TO THEM IS NOT PERMITTED.



APPROVED		4		Alberta TRANSPORTATION AND UTILITIES BRIDGE ENGINEERING BRANCH	
07-01-17	IDENT TAG LOCATION & APPROVAL SIGNATURE UPDATED	95-03-08	QTY. TABLE: TRUSS CHORDS, TRUSS END FRAME MEMBER	94-08-22	ANCHOR BOLT GALV. NOTE
93-05-24	ACCESS WALKWAY & CONNECTION WELD SIZE NOTE	EXECUTIVE DIRECTOR TECHNICAL STANDARDS BRANCH			
REV	DATE	REVISIONS	CHECKED	DATE	BY
RJR	93-04-19		MIK		
DESIGNED		DATE	CHECKED	DATE	STREAM
DRAWN		93-04-19	MIK		LOCATION
FILE		HIGHWAY		FILE	SHEET
S-1607		2 of 5		DRAWING	

NOTE: THIS DRAWING HAS BEEN REDUCED TO 22"x34", DO NOT SCALE