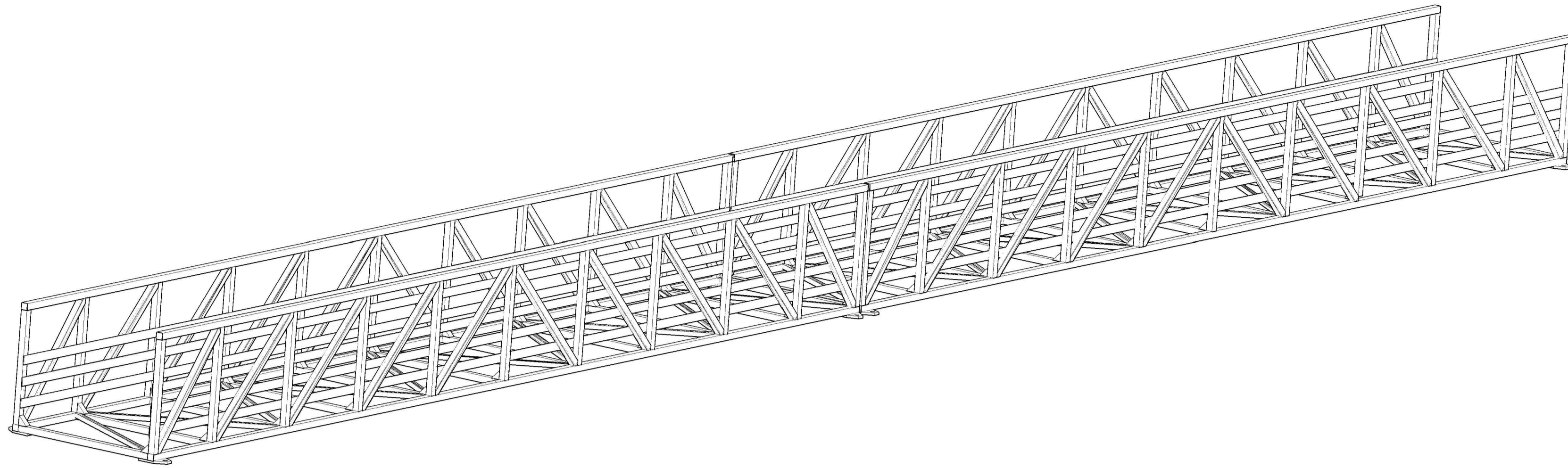


NOT FOR CONSTRUCTION



BRIDGE PERSPECTIVE

NOT TO SCALE

GENERAL NOTES

- CHECK AND VERIFY ALL DIMENSIONS BEFORE COMMENCING ANY WORK. NOTIFY THE ENGINEER OF ANY ERRORS OR OMISSIONS.
- DRAWINGS SHOW COMPLETED STRUCTURES ONLY. TEMPORARY BRACING FOR CONSTRUCTION LOADING CONDITION IS THE RESPONSIBILITY OF THE FABRICATOR.
- DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION".
- ALWAYS READ WRITTEN DIMENSIONS. DO NOT SCALE OFF THE DRAWINGS OR CAD FILES.
- THE FABRICATOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH DEFICIENCIES, AS DIRECTED BY THE ENGINEER.
- DO NOT DRILL OR ATTACH TO THE STRUCTURAL FRAME WITHOUT AUTHORIZATION FROM THE ENGINEER, UNLESS NOTED ON DRAWINGS.

DESIGN CRITERIA

- STRUCTURAL DESIGN IS IN ACCORDANCE WITH CAN/CSA S6-10 AND CAN/CSA-S157-05.
- DESIGN LIVE LOADS:
SNOW (S): Ss: 3.5 kPa Sr: 0.1 kPa
WIND q_{WS} : 0.9 kPa
LIVE 4.0 kPa
SNOWMOBILE: 318kg+126kg TRACK SET

INSPECTIONS

- ONLY WORK SHOWN ON THE STRUCTURAL DRAWINGS PREPARED BY McELHANNY CONSULTING WILL BE REVIEWED BY McELHANNY.
- QUALITY CONTROL IS THE FABRICATOR'S RESPONSIBILITY.
- NOTIFY THE ENGINEER 96 HOURS IN ADVANCE FOR INSPECTION AND APPROVAL OF THE FABRICATED PARTS.
- NUMBER OF REVIEWS AND ITEMS REVIEWED WILL BE AT THE DISCRETION OF THE ENGINEER TO DETERMINE GENERAL CONFORMANCE WITH THE DESIGN INTENT.
- ADDITIONAL INSPECTIONS REQUIRED DUE TO DEFICIENT OR INCOMPLETE WORK WILL BE AT THE EXPENSE OF THE FABRICATOR.

ANCHOR BOLTS

- ANCHOR BOLTS TO BE 19mmØ ASTM F593 (AISI 304/316) STAINLESS STEEL C/W NYLOCK NUT. EMBEDMENT DETAILS BY OTHERS.
- BRIDGE TO BEAR ON ELASTOMETRIC BEARING PADS (BY OTHERS). HAND TIGHTEN NUTS (DO NOT OVER TIGHTEN)

STRUCTURAL ALUMINUM

- FABRICATE BRIDGE WORK FROM STRUCTURAL ALUMINUM TO CSA S157-05.
- ALLOY AND TEMPER TO BE 6061-T6 UNLESS OTHERWISE NOTED.

DRAINAGE HOLES

DRILL 6mm MINIMUM DRAINAGE HOLES AT BOTTOM OF ALL CAVITIES.

FINISHING WORK

DE-BURR ALL SHARP EDGES. SANDBLAST ALL SURFACES TO A UNIFORM MATT FINISH.

WELDING

- ALL WELDING SHALL CONFORM TO CSA W59.2 AND BE PERFORMED BY CWB CERTIFIED WELDERS UNDER CSA W47.2. FABRICATORS TO BE APPROVED BY CWB. FABRICATOR TO PROVIDE COORDINATING ENGINEER WITH PROPOSED WELDING PROCEDURE PRIOR TO FABRICATION. WELDS SHALL BE MADE WITH ELECTRODES AND FILLER MATERIAL RATED AS FOLLOWS:

MATERIAL GRADE	ELECTRODE
6061-T6	5356

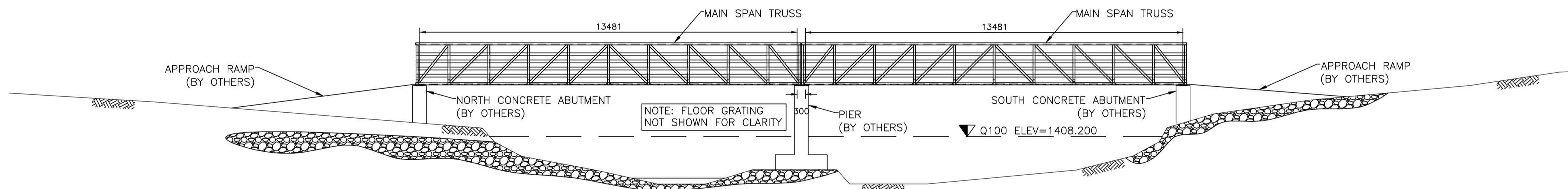
- FABRICATOR TO CONTROL WARPING OF COMPONENTS DURING WELDING BY ALTERNATING WELDS AND/OR ALLOWING COOLING PERIODS BETWEEN WELDS AND/OR CLAMPING OF MATERIALS.

- UNLESS NOTED OTHERWISE, WELDED CONNECTIONS SHALL BE FILLET WELDS (OR HAVE THE EFFECTIVE THROAT OF A FILLET WELD) WITH A MINIMUM SIZE EQUAL TO THE THICKNESS OF THE LIGHTEST GAUGE MEMBER IN THE CONNECTION, BUT NOT LESS THAN $\frac{1}{8}$ ".

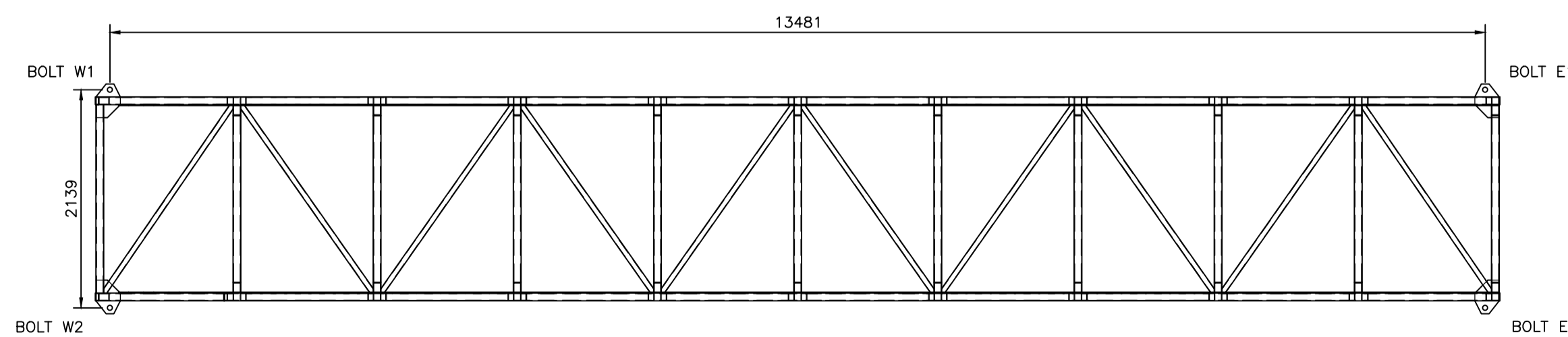
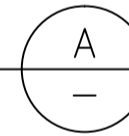
- ALL TOP AND BOTTOM CHORD SHOP SPLICES TO BE COMPLETE PENETRATION TYPE WELDS. NO SPLICES PERMITTED ON VERTICAL CHORDS, DIAGONALS, PLAN BRACING, OR FLOOR BEAMS.

RIGGING

BRIDGE MAY BE HOISTED WITH NYLON SLINGS (W.L.L.=10,000 LBS) GIRTH HITCHED ON TOP CHORD OF TRUSS AT 4 POINTS AND ON OR NEAR A NODE. SLING ANGLE NOT TO EXCEED 35 DEGREES FROM VERTICAL. ADDITIONAL RIGGING SPECIFICATIONS BY OTHERS.



PROFILE — SPRAY RIVER TRAIL BRIDGE No.1
1:50



ANCHOR BOLT LAYOUT

1:50

REACTIONS (kN)						
SPECIFIED			FACTORED			
DEAD	LIVE	SNOW	GRAVITY(1.1D+1.7L+0.5S)	LATERAL	UPLIFT	
4.5	25.2	22.7	59.2	8.9	NEG.	

- NOTES:
1. LOADS ARE TYPICAL OF EACH ANCHOR BOLT AND INCLUDE RUBBER MATTING.
2. APPROXIMATE WEIGHT OF TRUSS WITHOUT RUBBER MATTING IS 13.0kN(2900lbs.)



DO NOT SCALE DRAWINGS

5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	09/26/13

Revision/Revision	Description/Description	Date/Date

Client/client
Parks Canada / L'Agence Parcs Canada



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TERRACE B.C. CANADA / FAX (250) 635-6566

Project title/Titre du projet

**SPRAY RIVER TRAIL
END OF LOOP BRIDGE**

BANFF NATIONAL PARK

Approved by/Approuvé par
JAIME GUZMAN

Designed by/Concept par
JONATHAN LAMBERT

Drawn by/Dessiné par
JONATHAN LAMBERT

PWGSC Project Manager/Administrateur de Projets TP/SGC

PW/SC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TP/SGC

Client/client

Drawing title/Titre du dessin

**BRIDGE REPLACEMENT
GENERAL ARRANGEMENT**

Project No./No. du projet

101

1 OF 2

Revision no./
La Révision no.

0