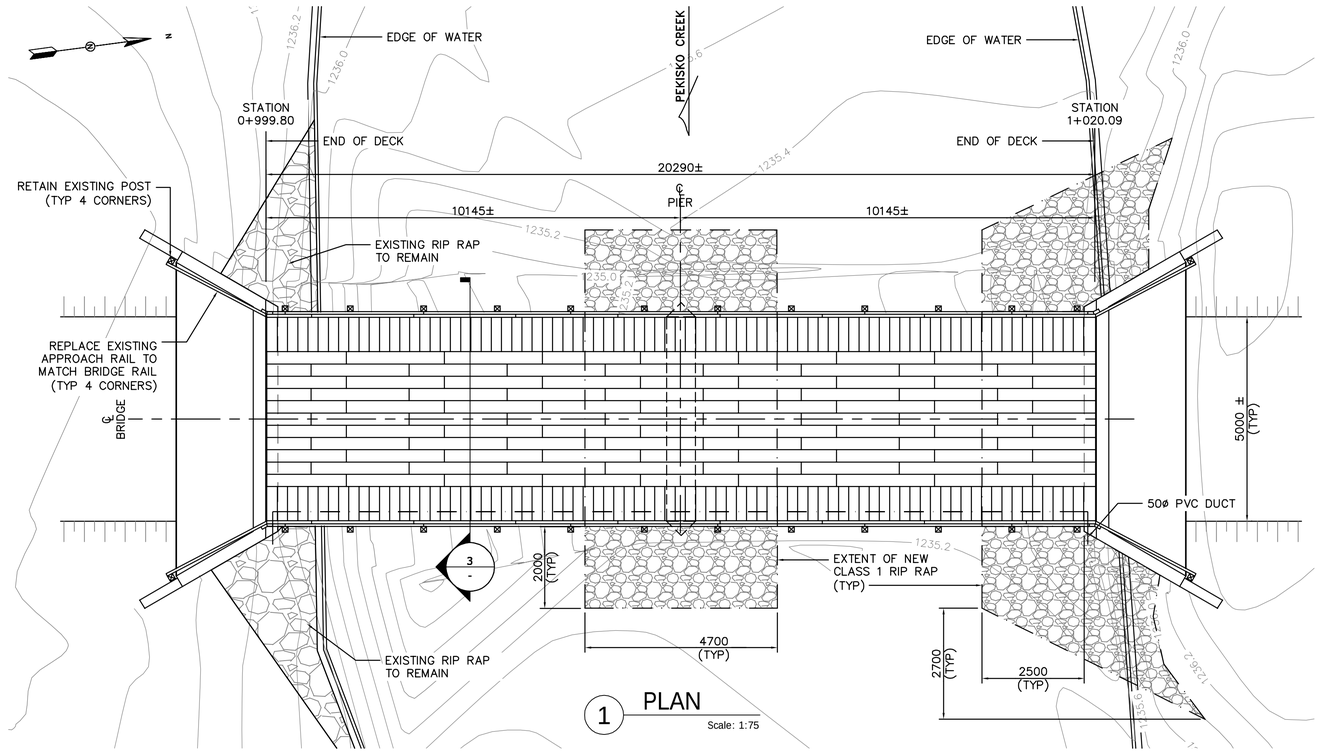
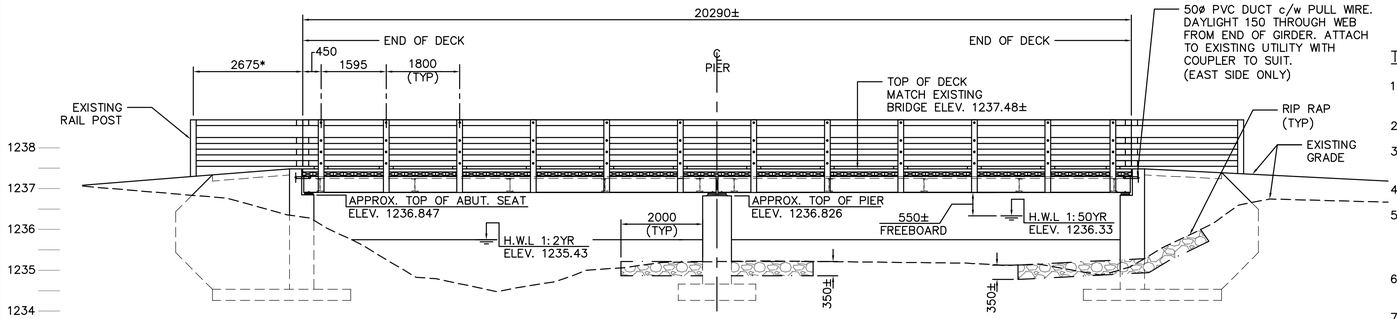


1 PLAN

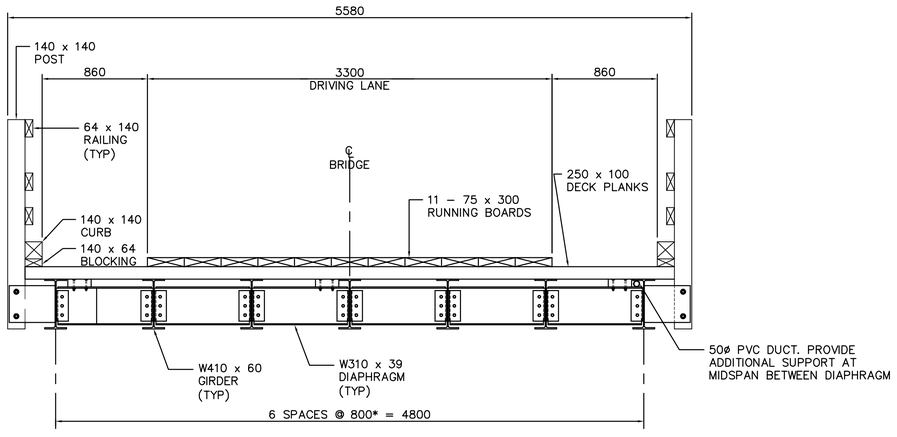
Scale: 1:75



NOTE:
EXISTING RIP RAP NOT SHOWN FOR CLARITY

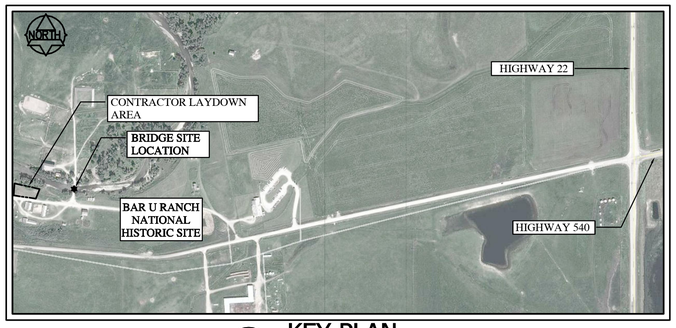
2 ELEVATION

Scale: 1:75



3 SECTION

Scale: 1:25



4 KEY PLAN

Scale: N.T.S.

GENERAL

1. ALL DIMENSIONS IN MILLIMETERS AND ELEVATIONS IN METERS UNLESS NOTED OTHERWISE.
2. ELEVATIONS SHOWN ON THESE DRAWINGS ARE RELATIVE ONLY AND HAVE NOT BEEN TIED TO A GEODETIC GRID.
3. BENCH MARK # 1
   - ELEVATION: 1237.626
   - NAD 83 3TM 114 – NORTHING: –17 727.789 EASTING: 5 587 003.266
   - DESCRIPTION: NORTH–EAST CORNER OF ELECTRICAL BOX CONCRETE BASE. BENCHMARK HAS BEEN PAINTED WITH REFLECTIVE ORANGE PAINT AND AN ARROW HAS BEEN PLACED ON IT.
4. * DENOTES DIMENSIONS OF THE NEW BRIDGE THAT MUST BE CONFIRMED IN THE FIELD BEFORE USE. CONFIRM ALL EXISTING DIMENSIONS BEFORE START OF FABRICATION.
5. ALL MATERIALS USED IN THE WORK SHALL BE NEW.
6. TAKE PRECAUTIONS TO ENSURE THAT NO MATERIAL FALLS INTO THE WATER AT ANY TIME.
7. PROTECT THE EXISTING CONCRETE SUBSTRUCTURE FROM DAMAGE.

DESIGN NOTES

- CAN/CSA–S6–06
- LIVE LOAD: CL625 + DYNAMIC LOAD ALLOWANCE
- DEAD LOAD: 130 kN/SPAN
- WIND LOAD: Q50: 0.65 kPa

TIMBER

1. EXCEPT WHERE SPECIFICALLY NOTED, FOLLOW THE REQUIREMENTS OF THE PARKS CANADA AGENCY "GUIDE FOR THE USE, HANDLING AND DISPOSAL OF PRESSURE TREATED WOOD", DATED JANUARY 2009.
2. ALL TIMBER DIMENSIONS SHOWN ARE ACTUAL DIMENSIONS.
3. DECK PLANKS SHALL BE ROUGH SAWN STRUCTURAL GRADE PRESSURE TREATED SPRUCE OR DOUGLAS FIR. WIDTH SHALL NOT EXCEED 250 mm.
4. OTHER TIMBER ELEMENTS SHALL BE NO. 1 OR NO. 2 GRADE PRESSURE TREATED S–P–F.
5. DECK PLANKS MAY BE FULL WIDTH OR MAY BE SUPPLIED IN A MAXIMUM OF 2 PIECES. DISCONTINUOUS PLANKS SHALL BE SPLICED DIRECTLY OVER ONE OF THE 3 CENTRAL STRINGER LINES. NAILERS SHALL BE PROVIDED ON BOTH SIDE OF ANY STRINGER WHERE PLANKS ARE SPLICED. STAGGER SPLICE LOCATIONS BETWEEN ADJACENT PLANKS.
6. CONNECTIONS FOR HORIZONTAL RAILING TO BE BUTTED FLUSH TOGETHER AT CENTERLINE OF POST WITH EACH SIDE OF THE CONNECTION TO INCLUDE 2 – #10 x 150 SCREWS.
7. ALL TIMBER SHALL CONFORM TO CSA STANDARD O141.
8. TIMBER TREATMENT SHALL BE TYPE CCA IN CONFORMANCE WITH THE APPLICABLE STANDARD IN THE CSA O80 RANGE.
9. TIMBER HAND RAIL TREATMENT SHALL BE ECO WOOD TREATMENT OR APPROVED EQUAL.
10. TREAT ALL CUT TIMBER SURFACES AND PREDRILLED HOLES WITH TWO APPLICATIONS OF AN APPROVED LIQUID WOOD PRESERVATIVE IN CONFORMANCE WITH CSA STANDARD O80.3 AND SUITABLE FOR USE WITH CCA TREATMENT.
11. SCREWS FOR CONNECTING TIMBER ELEMENTS SHALL BE RSS "RUGGED STRUCTURAL SCREWS" AS MANUFACTURED BY GRK FASTENERS, OR APPROVED EQUIVALENT ONLY.
12. BOLTS CONNECTING TIMBER ELEMENTS SHALL BE IN ACCORDANCE WITH ASTM STANDARD A307, HOT–DIP GALVANIZED. PROVIDE 2 FLAT WASHERS FOR EACH BOLT. PROVIDE ROUND HEADS AT EXPOSED LOCATIONS OR COUNTERSINK BELOW THE SURFACE OF THE SURROUNDING WOOD.

STEEL

1. MAIN STRINGERS SHALL BE ATMOSPHERIC CORROSION RESISTANT (WEATHERING STEEL) IN CONFORMANCE WITH CSA G40.21, GRADE 350AT.
2. ALL OTHER STEEL SHALL BE IN CONFORMANCE WITH CSA G40.21, GRADE 300A.
3. BOLTS CONNECTING STEEL ELEMENTS SHALL BE IN ACCORDANCE WITH ASTM A325, TYPE 3 (WEATHERING).
4. USE WELD MATERIAL THAT MATCHES THE WEATHERING PROPERTIES OF THE CONNECTED ELEMENTS.
5. FIELD WELDS WILL NOT BE PERMITTED.
6. PROVIDE SHOP DRAWINGS OF ALL STEEL ELEMENTS FOR REVIEW.
7. PERFORM WELDING IN ACCORDANCE WITH CSA STANDARD W59.
8. FABRICATION SHALL BE PERFORMED BY A FIRM CERTIFIED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA W47.1, DIVISION 1 OR DIVISION 2.1.
9. STEEL SHIMS CAN BE USED TO INCREASE DESIRED BRIDGE ELEVATIONS AT BEARING LOCATIONS.

RIP RAP

1. RIP RAP SHOULD NOT BE KEYED IN ANY DEEPER THAN THE TOP OF FOOTING. EXCAVATION SHOULD START NEXT TO PIER IN ORDER TO CONFIRM DEPTH OF PIER PRIOR TO PLACING RIP RAP.
2. CLASS 1 RIP RAP TO BE PLACED IN THE EXTENTS AS SHOWN. AT ABUTMENT RIP RAP EXTEND TO ELEVATION 1236.00.

NOT FOR CONSTRUCTION

PERMIT TO PRACTICE
DILLON CONSULTING LIMITED
Date JULY 15, 2013
PERMIT NUMBER: P2528
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
0	13/07/15	ISSUED FOR TENDER	RCB	HAT

Revision / Revision

A/B Detail number / Sheet number — A Numero de detail / B Numero de la feuille

Linear dimensions in millimetres — Dimensions lineaires en millimetres

Consultant's Name / Nom de l'expert–conseil
DILLON CONSULTING

Eng. Stamp / Sceau de l'ingenieur
PROFESSIONAL ENGINEER KEVIN G. WILLIAMS REGD.
2013-07-15

Parks Canada / Parcs Canada
Asset Management Western and Northern Region / Gestion des biens Région de l'Ouest et du Nord
Canada

PARKS CANADA

Project title/Titre du projet
BAR U RANCH, ALBERTA

SERVICE BRIDGE
BAR U RANCH
NATIONAL HISTORIC SITE

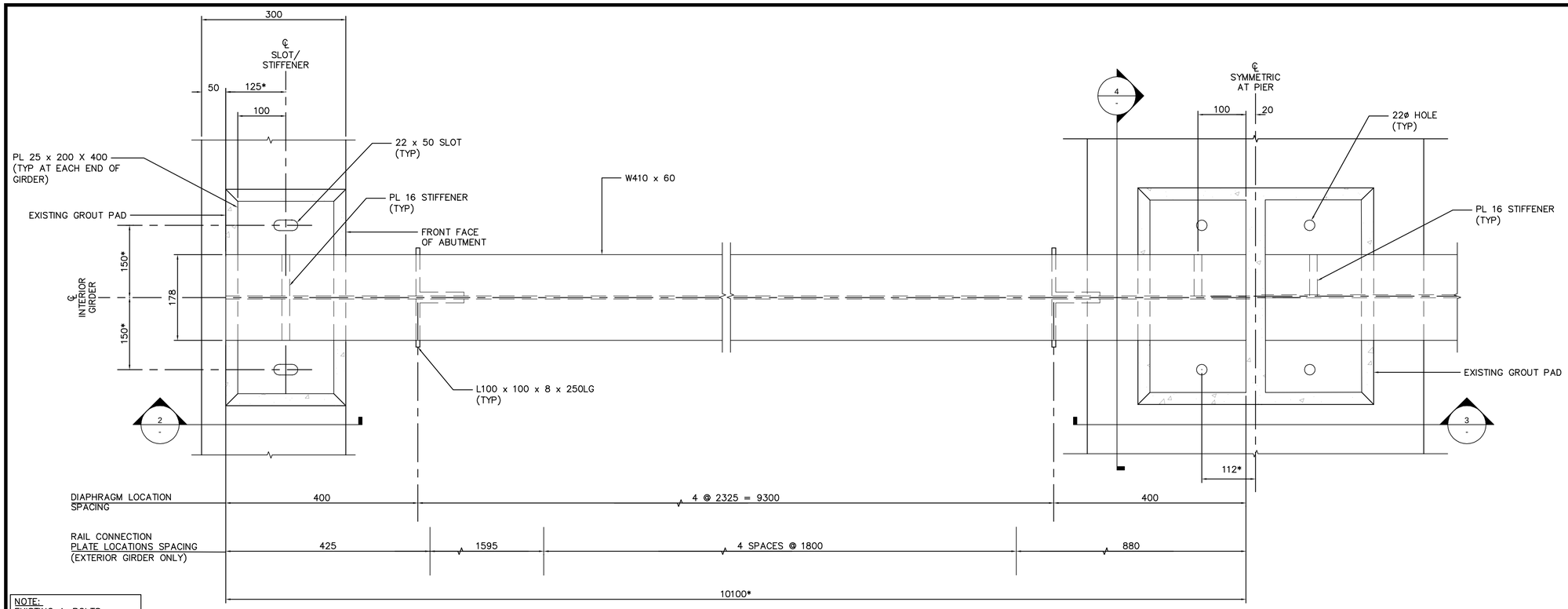
Drawing title/Titre du dessin
SITE PLAN AND PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
GG	RCB	JUNE 7, 2013
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
KGW	CH	AS SHOWN

Client Acceptance/Acceptation du client: KAREN ESARTE — Date
Approved by/Approuvé par — Date

Project No./Nº du projet	Asset No./Nº du bien	Sheet No./ Nºde la feuille
137706		1

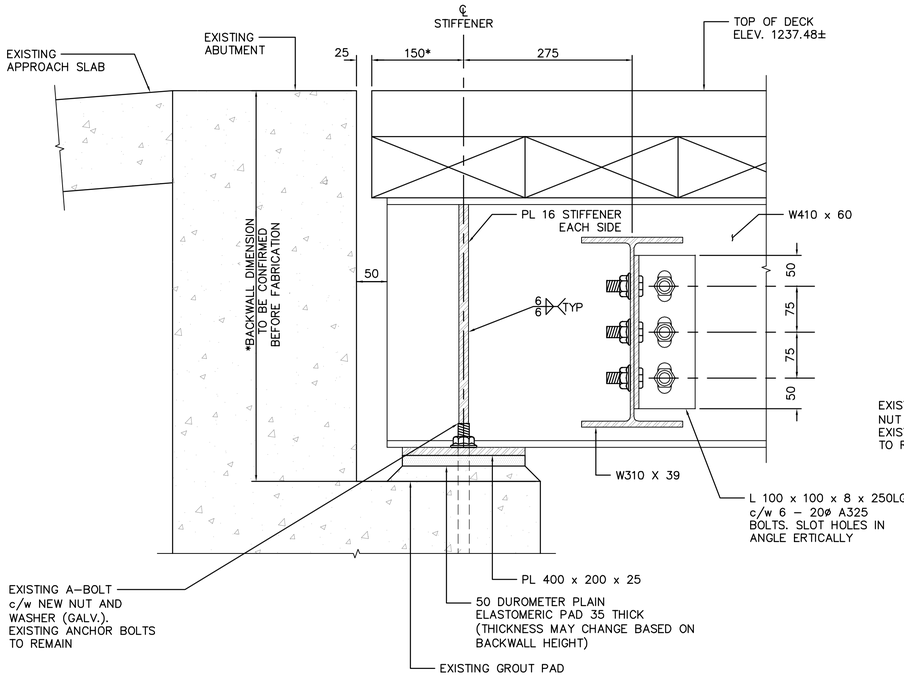
Drawing Set No./Nº de serie du dessin: 3



NOTE:
EXISTING A–BOLTS
NOT SHOWN FOR CLARITY

1 GIRDER LAYOUT

Scale: 1:5



2 SECTION AT ABUTMENT

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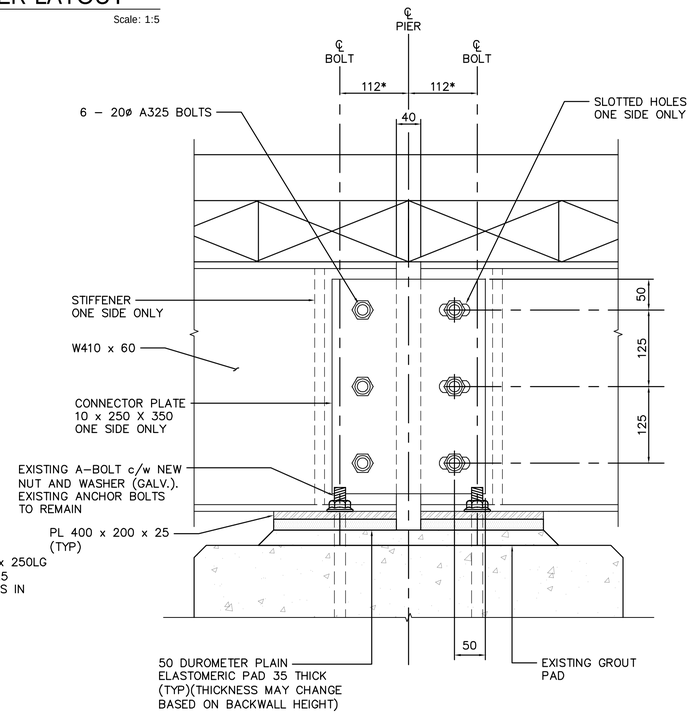

3 SECTION AT PIER

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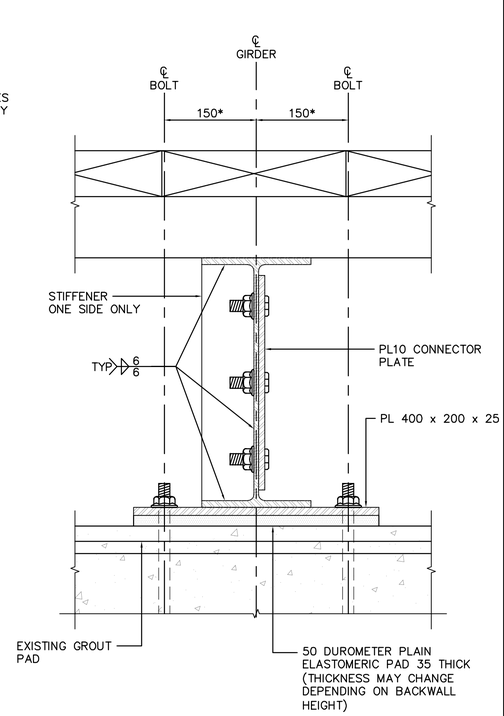

4 SECTION THROUGH PIER

Scale: 1:5

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DILLON CONSULTING

Eng. Stamp / Sceau de l'Ingenieur
PROFESSIONAL ENGINEERS GEVIN G. WILLIAMS
2013-07-15

Parks Canada / Parcs Canada
Asset Management Western and Northern Region
Gestion des biens Région de l'Ouest et du Nord
Canada

PARKS CANADA

Project title/Titre du projet
BAR U RANCH, ALBERTA

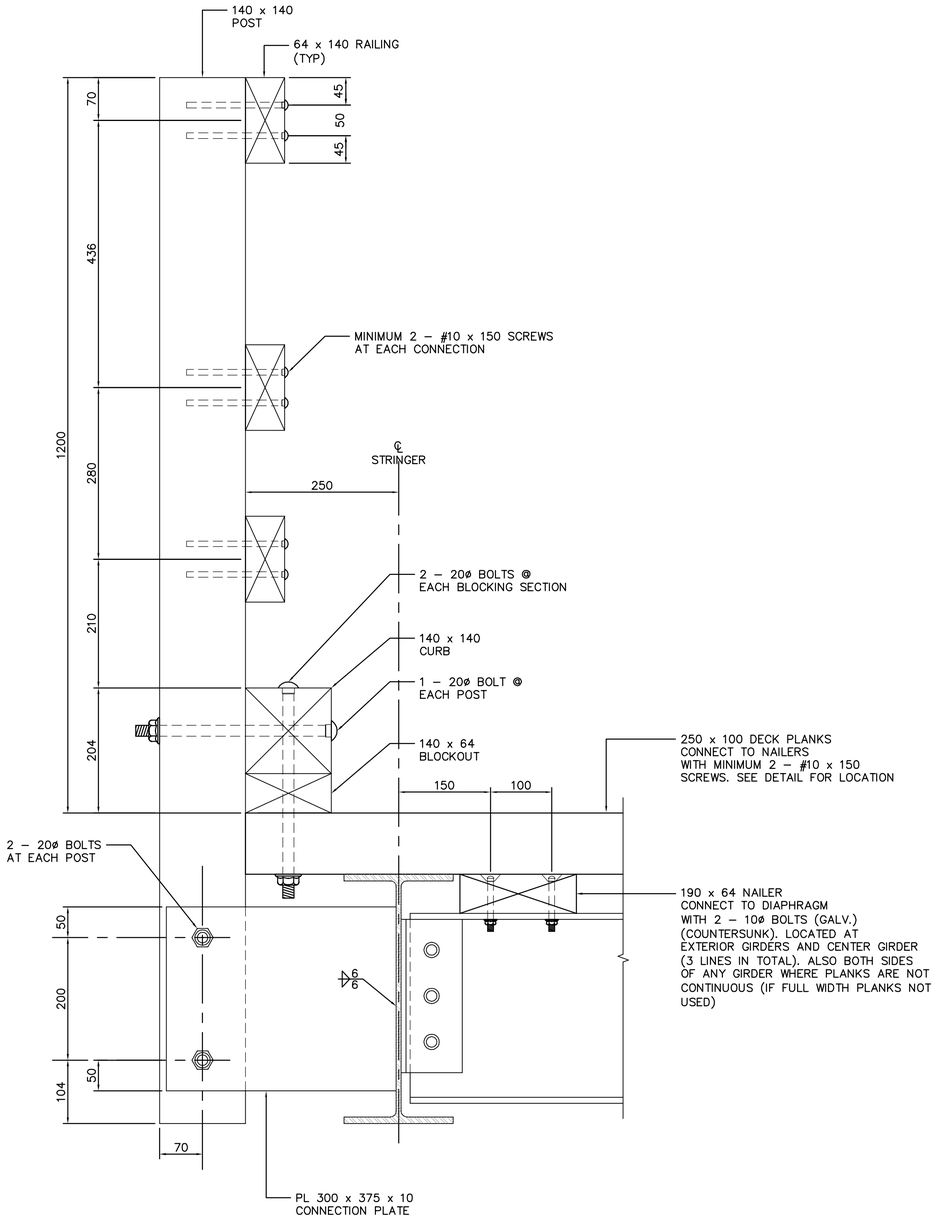
SERVICE BRIDGE
BAR U RANCH
NATIONAL HISTORIC SITE

Drawing title/Titre du dessin
GIRDER DETAILS AND SECTIONS

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
GG	RCB	JUNE 7, 2013
Designed by/Concept par	**Reviewed by/Revisé par**	**Scale/Echelle**
KGW	CH	AS SHOWN

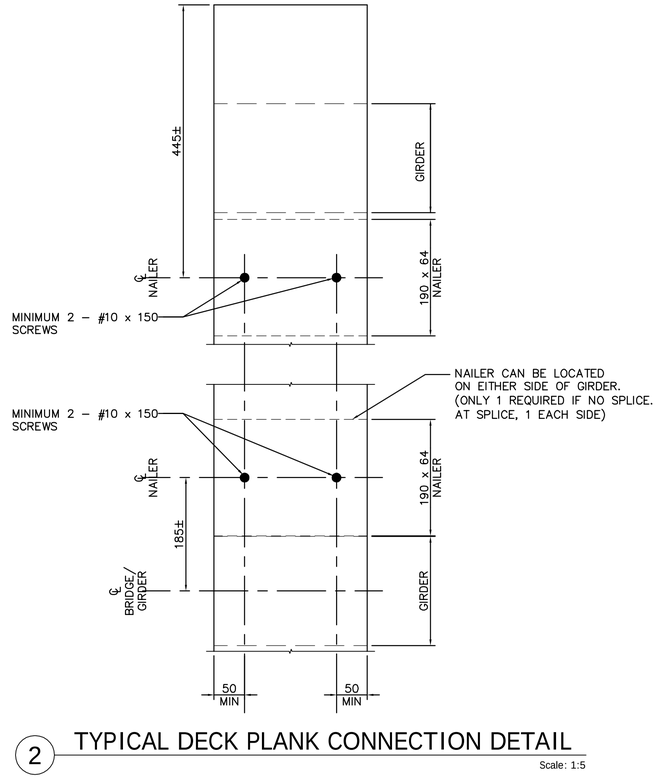
Client Acceptance/Acceptation du client: KAREN ESARTE — Date
Approved by/Approuvé par — Date

Project No./Nº du projet	Asset No./Nº du bien	Sheet No./ Nºde la feuille
137706		2
Drawing Set No./Nº de serie du dessin		3



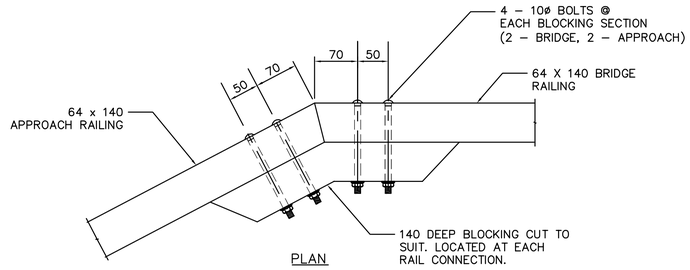
1 POST CONNECTION DETAIL

Scale: 1:5



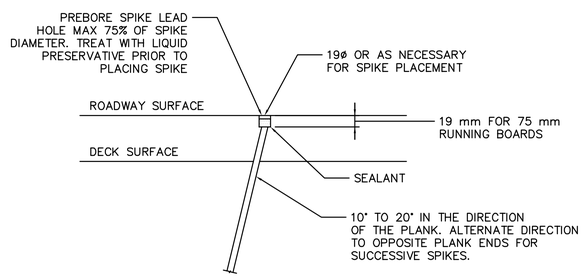
2 TYPICAL DECK PLANK CONNECTION DETAIL

Scale: 1:5



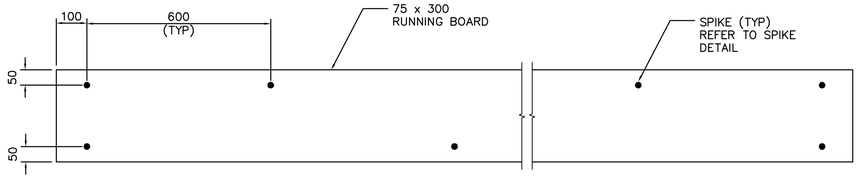
3 APPROACH RAIL CONNECTION

Scale: 1:5



4 SPIKE DETAIL

Scale: 1:5



5 RUNNING BOARD ATTACHMENT PATTERN FOR SPIKES

Scale: 1:10

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Eng. Stamp / Sceau de l'Ingenieur: KEVIN G. WILLIAMS, PROFESSIONAL ENGINEER, PROVINCE OF ALBERTA, 2013-07-15

Parks Canada — Asset Management Western and Northern Region
Parcs Canada — Gestion des biens Région de l'Ouest et du Nord
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PARKS CANADA

Project title/Titre du projet
BAR U RANCH, ALBERTA

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SUPERSTUCTURE DETAILS AND SECTIONS

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
GG	RCB	JUNE 7, 2013
Designed by/Concept par	**Reviewed by/Revisé par**	**Scale/Echelle**
KGW	CH	AS SHOWN

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