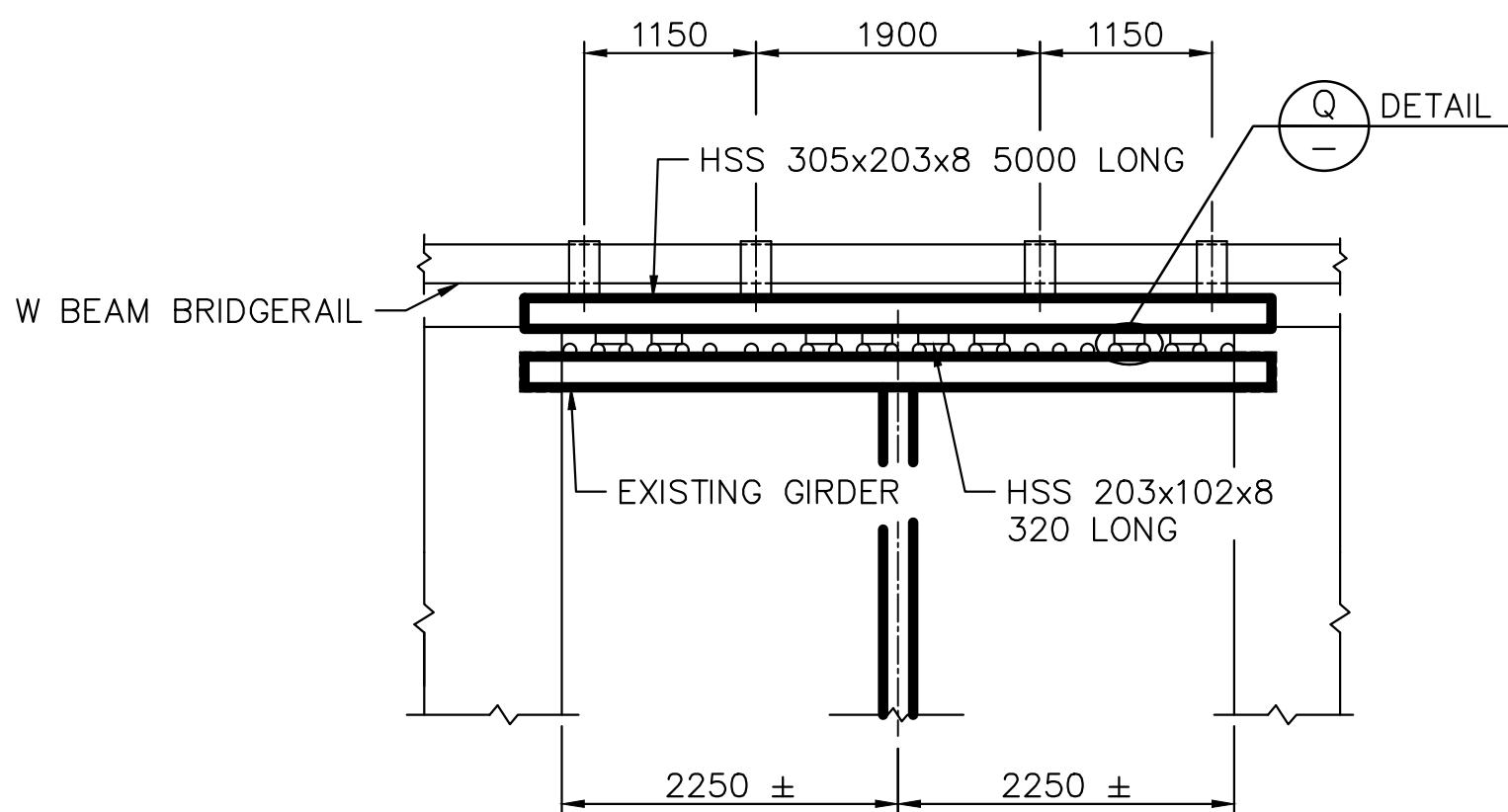
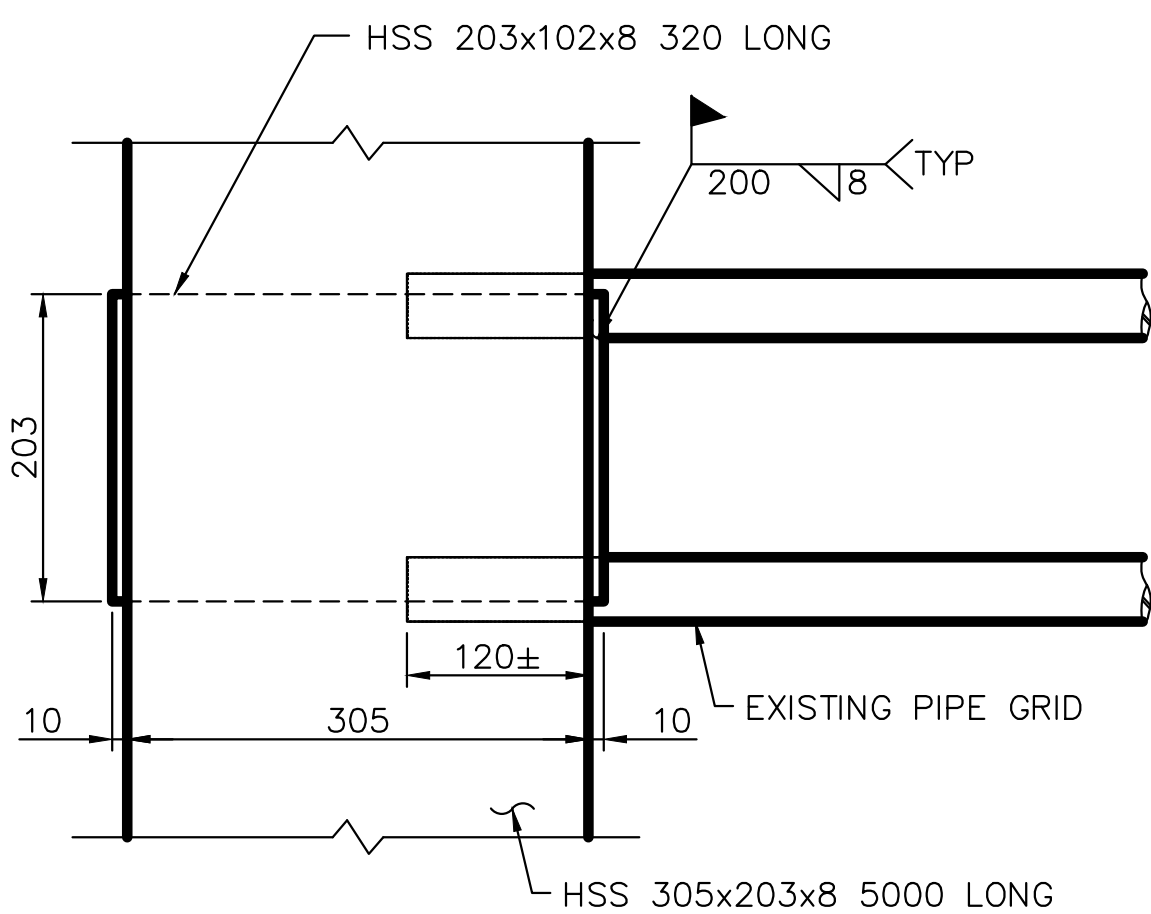


PLAN
1:50

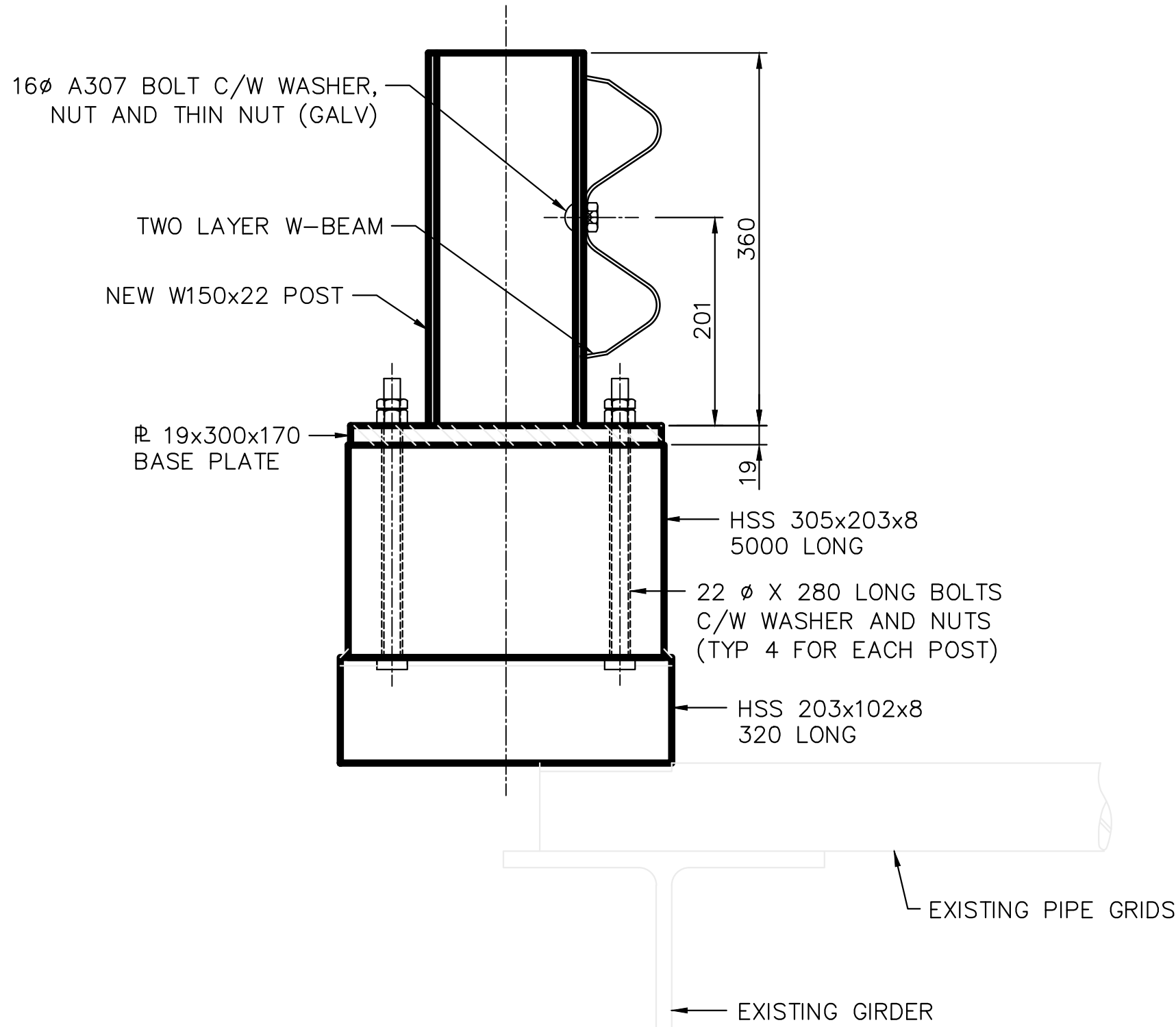
NOTE:
FOR CLARITY, GIRDERS AND APPROACH GUARDRAIL ARE NOT SHOWN.



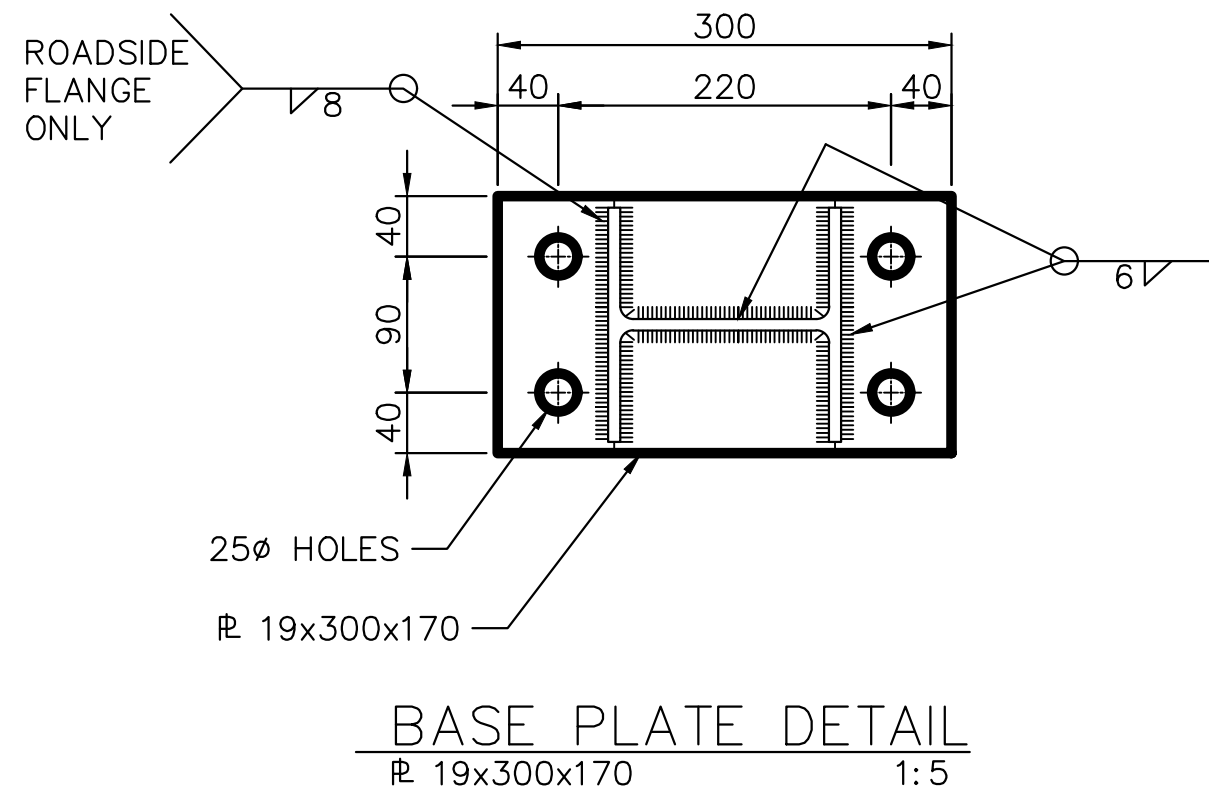
ELEVATION
1:50



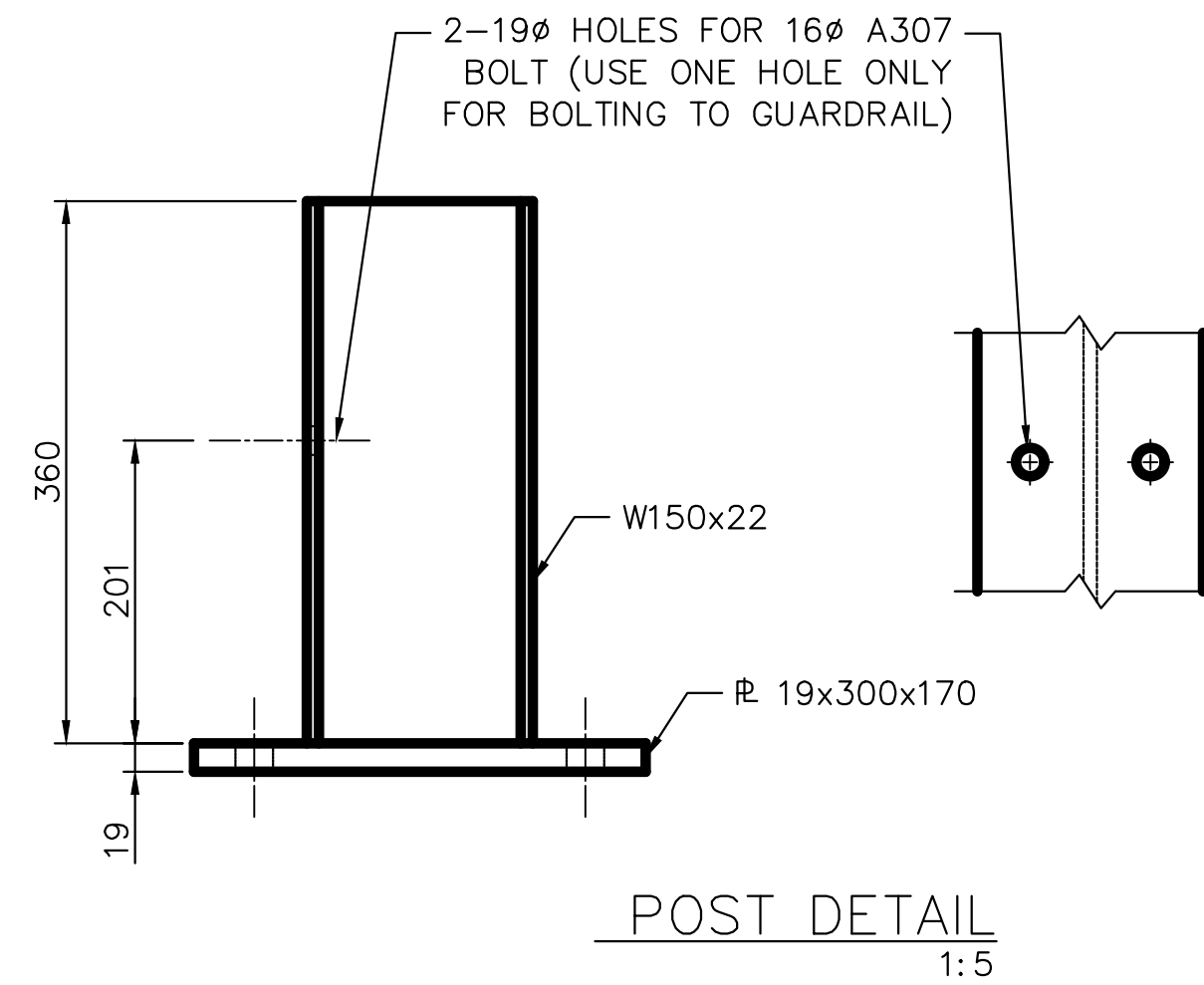
DETAIL
PLAN VIEW 1:5



SECTION
1:5



BASE PLATE DETAIL
1:5



POST DETAIL
1:5

NOTES

GENERAL

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ONLY BRIDGERAIL IS SHOWN. PLEASE SEE DRAWINGS C-13 & 14 FOR APPROACH GUARDRAIL.
- BRIDGERAIL AND APPROACH GUARDRAIL TRANSITION SHALL CONFORM TO THE REQUIREMENTS OF THE ALBERTA TRANSPORTATION SPECIFICATIONS FOR BRIDGE CONSTRUCTION "SECTION 12 - BRIDGERAIL" AND "SECTION 14 - GUARDRAIL".
- ALL NEW STEEL MATERIAL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH CSA G164 UNLESS NOTED OTHERWISE.

MATERIALS

- ALL PLATE STEEL AND STRUCTURAL SHAPES SHALL CONFORM TO CSA G40.21 GRADE 300W OR A36.
- ALL BOLTS SHALL CONFORM TO ASTM A307.
- ALL W-BEAM GUARDRAIL SHALL HAVE A MINIMUM YIELD STRENGTH OF 345 Mpa.

FABRICATION

- POSTS AND BASE PLATES SHALL BE FABRICATED IN SHOP.
- ALL WELDING SHALL CONFORM TO THE CURRENT AWS SPECIFICATION D1.5.
- GALVANIZING SHALL CONFORM TO THE CURRENT CSA STANDARD G164.
- ALL DAMAGED OR REMOVED GALVANIZED AREAS AND ALL EXPOSED FIELD WELDS OF GALVANIZED MATERIAL SHALL BE THOROUGHLY CLEANED AND REPAIRED BY METALIZING IN ACCORDANCE WITH ASTM-A-780 METHOD A3, METALIZING TO THICKNESS OF 0.18 mm.

CONSTRUCTION

- CONSTRUCTION SHALL CONFORM TO THE CURRENT ALBERTA TRANSPORTATION SPECIFICATIONS FOR BRIDGE CONSTRUCTION.
- HSS 305x203x8 SHALL BE FIELD WELDED ON THE TOP OF HSS 203x102x8.
- HSS 203x102x8 SHALL BE FIELD WELDED ON THE TOP OF EXISTING PIPE GRIDS.
- WHEN HSS 203x102x8 CONFLICTS WITH EXISTING TIE BARS, WHICH FIX THE PIPE GRIDS TO GIRDER, REMOVE TIE BARS AND INSTALL THEM ON THE INTERIOR SIDE OF GIRDERS.
- FIELD DRILL HOLES ON HSS 305x203x8 AND FIELD ADJUST THE LOCATION OF POSTS TO AVOID CLASHING WITH HSS 203x102x8.

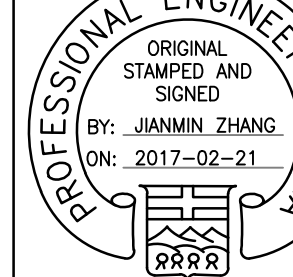
PERMIT TO PRACTICE

PERMIT TO PRACTICE
Amec Foster Wheeler Environment & Infrastructure
a Division of Amec Foster Wheeler Americas Limited
Signed By: **KEITH HELBERG**
Date: **2017-02-21**
PERMIT NUMBER: P-04546
The Association of Professional
Engineers and Geoscientists of Alberta

Consultant's Name
Nom de l'expert-conseil



Eng. Stamp
Sceau de l'ingénieur



SCALES SHOWN ARE CORRECT
FOR 24" x 34" SHEET SIZE

5		
4		
3		
2		
1	ISSUED FOR TENDER	17/02/21
0	ISSUED FOR REVIEW 99%	17/01/25
Revision/	Description/Description	Date/Date
Revision		

Client/client

Parks Canada
Agency

L'Agence Parcs
Canada

Western and
Northern Region

Ouest et Nord
du Canada

Canada

Project title/Titre du projet

**ELK ISLAND NATIONAL PARK
ROAD RENEWAL PROJECT**

**WEST GATE ACCESS
PARK CANADA**

Approved by/Approuve par

Designed by/Concept par
J.Z.

Drawn by/Dessine par
T.Q.L.

PWGSC Project Manager/Administrateur de Projets TP5GC
R.H.

PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TP5GC

Client/client

PARKS CANADA

Drawing title/Titre du dessin

**GUARDRAIL INSTALLATION PLAN
AT STATION 4+282**

Project No./No. du
projet
R.075711.001

Sheet/Feuille
C-12

Revision no./
La Révision
no.
0