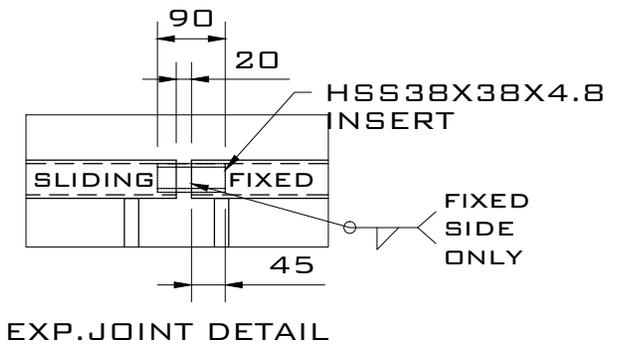


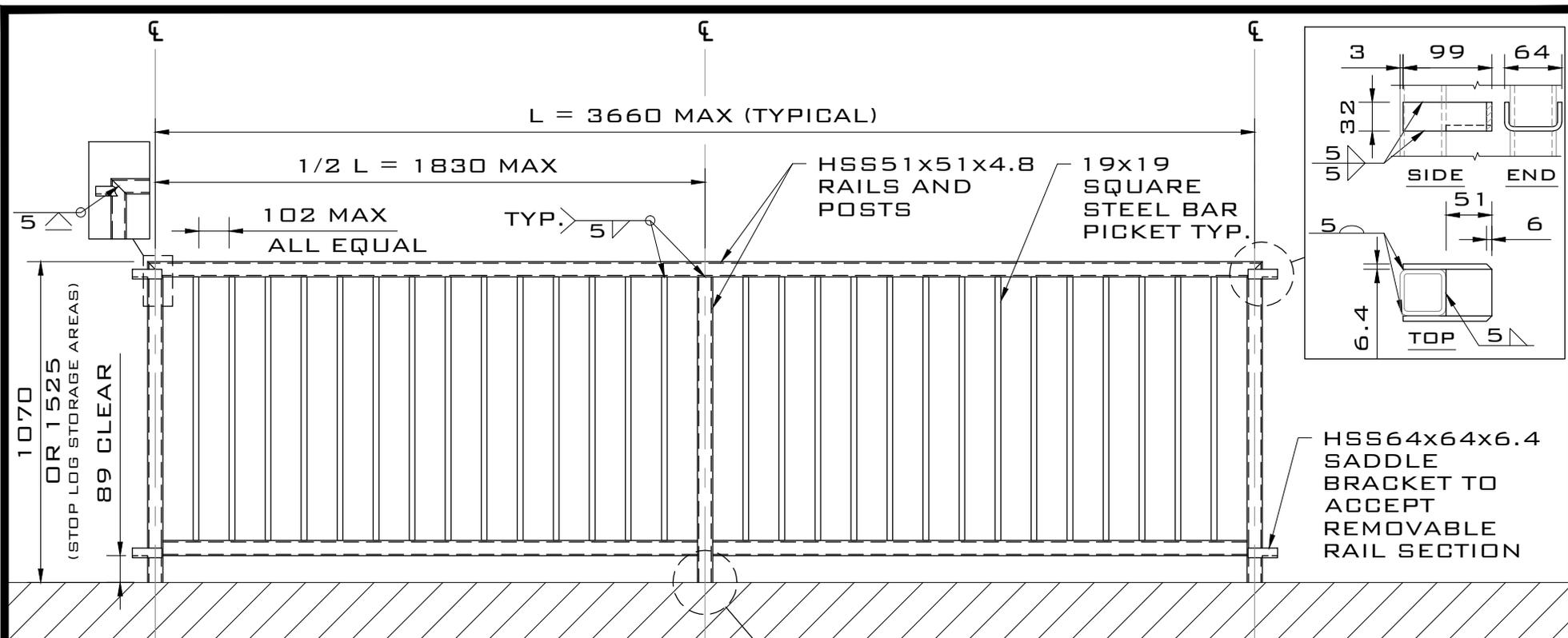
PROVIDE 25Ø DRAIN HOLE ON U/S RAIL AT MIN. 75MM CLEAR OF END. DO SIMILAR ALL RAIL ENDS. FOR NON-STD LENGTH PANELS MOVE HOLE TOWARDS PANEL CENTRE AS REQ'D TO BE MIN. 8MM CLEAR OF PICKETS

VERTICAL DIMENSIONS IN BRACKETS (XX) REFER TO APPLICABLE DIMENSIONS FOR RAILS IN STOP LOG STORAGE AREAS. NOTE RAILS ARE TO BE 1525 HIGH WHERE STOP LOGS ARE STORED IN FRONT OF THEM. TYPICALLY RAILS ON THE DOWNSTREAM SIDE OF A STOP LOG DAM DECK MUST BE 1525 HIGH.



REQ'D T&B RAIL EVERY 25M OR WHERE RAIL PANEL CROSSES CONCRETE JOINTS





GENERAL NOTES

1. THIS DETAIL TYPICALLY APPLIES TO AREAS ACCESSIBLE TO PUBLIC WHERE A FALL GREATER THAN 600mm OR WHERE A FALL INTO A HAZARD SUCH AS A DAM INTAKE OR SPILLWAY EXISTS. GUARD RAILS ARE TYPICALLY INTENDED TO BE INSTALLED AT THE EDGE OF AN IDENTIFIED FALL HAZARD.
2. TYPICALLY A RUN OF GUARD RAIL SHALL CONSIST OF ALTERNATING FIXED AND REMOVABLE SECTIONS.
3. COMPLETE ASSEMBLED SECTION IS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION
4. ALL DIMENSIONS IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE



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 Ontario Waterways

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Project Name: **STANDARD DETAILS FOR PUBLIC AND OPERATOR SAFETY INSTALLATIONS ON DAMS**

 Drawing Name: **STANDARD PUBLIC STYLE GUARD RAIL**

FABRICATION DETAILS - FIXED RAIL SECTION

Drawn by: S.Gauthier

 Drawing date: December 21, 2015

 Checked by:

 Check date:

 Approve date:

 Approved:

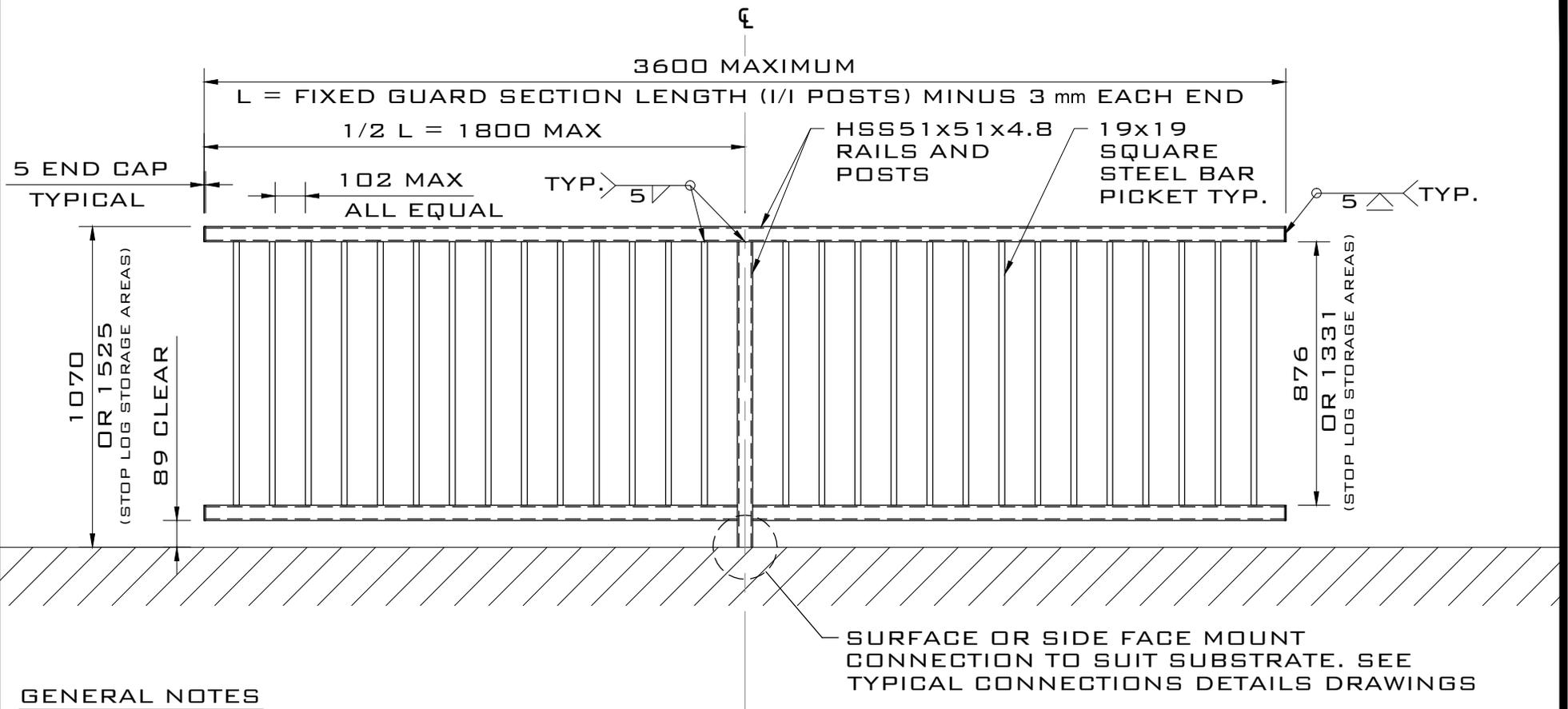
Drawing Scale: 1:20

 Plot Scale: 1:1

 Plot Size: Letter

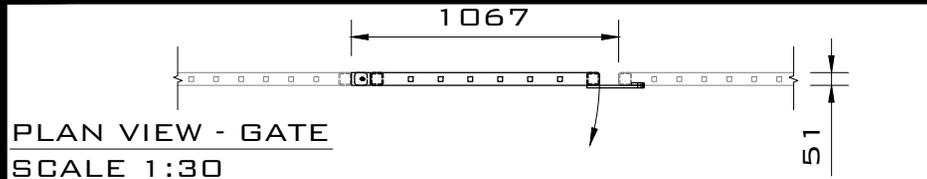
 Drawing No: **P1**

 REV.B

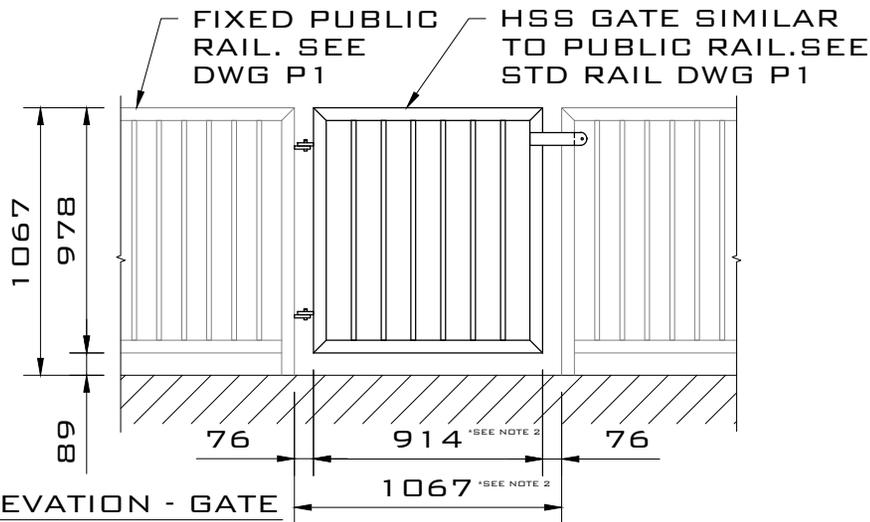


GENERAL NOTES

1. THIS DETAIL TYPICALLY APPLIES TO AREAS ACCESSIBLE TO PUBLIC WHERE A FALL GREATER THAN 600mm OR WHERE A FALL INTO A HAZARD SUCH AS A DAM INTAKE OR SPILLWAY EXISTS. GUARD RAILS ARE TYPICALLY INTENDED TO BE INSTALLED AT THE EDGE OF AN IDENTIFIED FALL HAZARD.
2. TYPICALLY A RUN OF GUARD RAIL SHALL CONSIST OF ALTERNATING FIXED AND REMOVABLE SECTIONS.
3. COMPLETE ASSEMBLED SECTION IS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION
4. ALL DIMENSIONS IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE



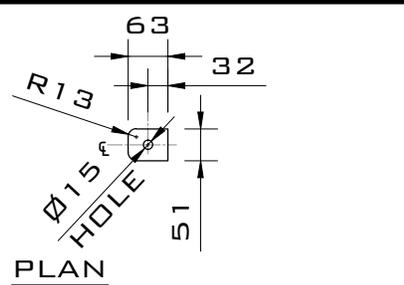
PLAN VIEW - GATE
SCALE 1:30



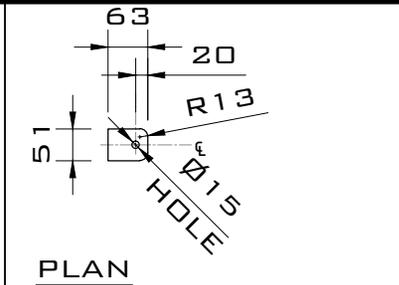
ELEVATION - GATE
SCALE 1:30

GENERAL NOTES

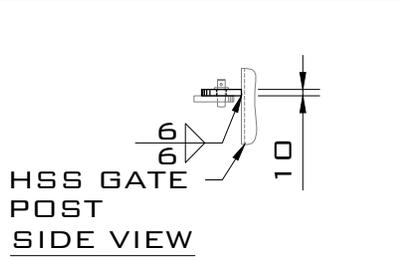
1. THIS GATE IS INTENDED TO BE COMPATIBLE WITH PUBLIC STYLE GUARD RAILS. WHERE GATES ARE TO BE INSTALLED ON GUARDRAIL RUNS, EFFORT SHALL BE MADE TO MATCH PICKET SPACING OF ADJACENT RAILS.
2. THE TYPICAL GATE WIDTH OF 914 mm OR 1067 mm CLEAR OPENING BETWEEN POSTS SHOWN IS CONSIDERED IDEAL AND IS ALSO A MAXIMUM. WHERE GATE WIDTH MUST BE REDUCED 610 mm SHALL BE TAKEN AS A MINIMUM.
3. COMPLETE ASSEMBLED SECTION IS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION
4. ALL DIMENSIONS IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE



PLAN

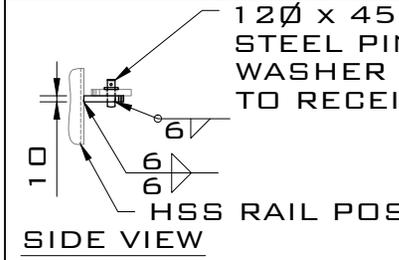


PLAN



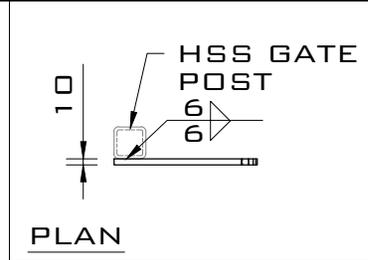
HSS GATE POST
SIDE VIEW

TOP HINGE PLATE
SCALE 1:12

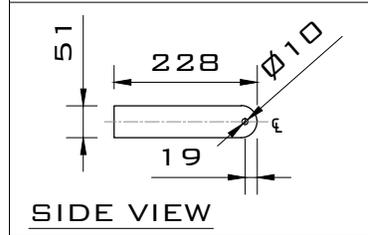


HSS RAIL POST
SIDE VIEW

BOTTOM HINGE PLATE
SCALE 1:12

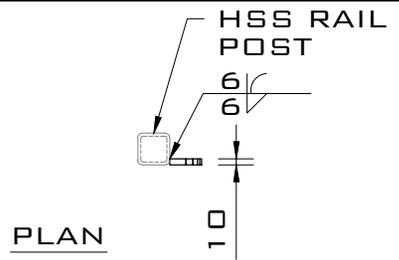


PLAN

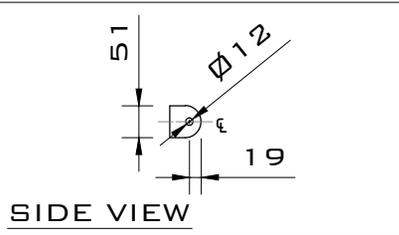


SIDE VIEW

GATE LATCH PLATE
SCALE 1:12



PLAN



SIDE VIEW

RAIL LATCH PLATE
SCALE 1:12

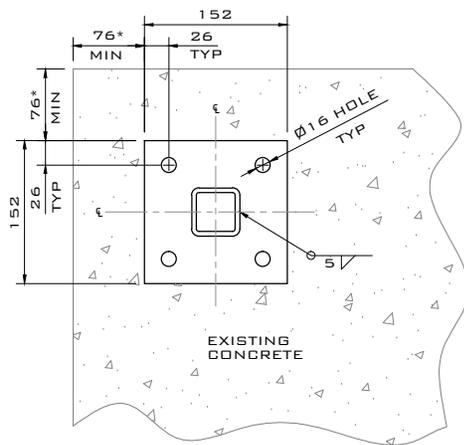
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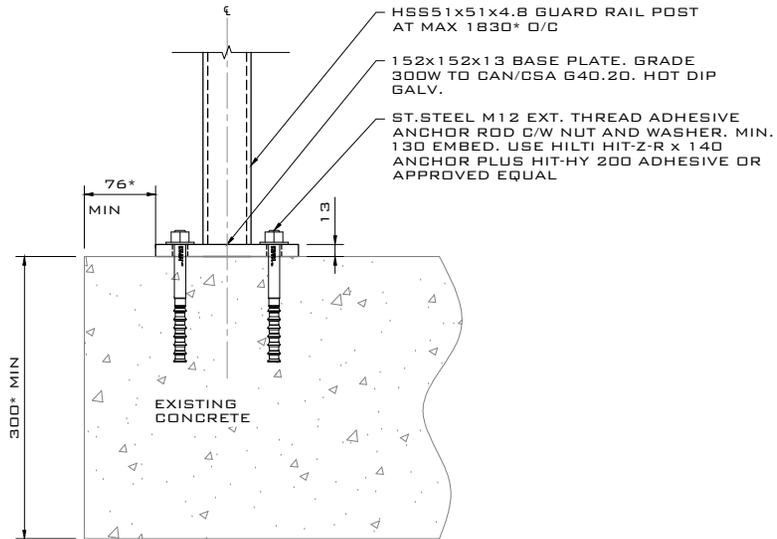
Project Name: **STANDARD DETAILS FOR PUBLIC AND OPERATOR SAFETY INSTALLATIONS ON DAMS**
 Drawing Name: **STANDARD PUBLIC STYLE GUARD RAIL FABRICATION DETAILS - ACCESS GATE**

Drawn by: S.Gauthier
 Drawing date: August 20, 2014
 Checked by:
 Check date:
 Approve date:
 Approved:

Drawing Scale: 1:30 UNO
 Plot Scale: 1:1
 Plot Size: Letter
 Drawing No: **P3**
 REV.A



PLAN VIEW

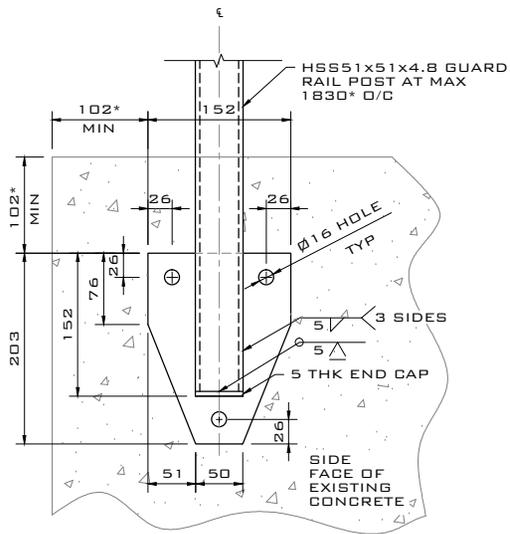


ELEVATION VIEW

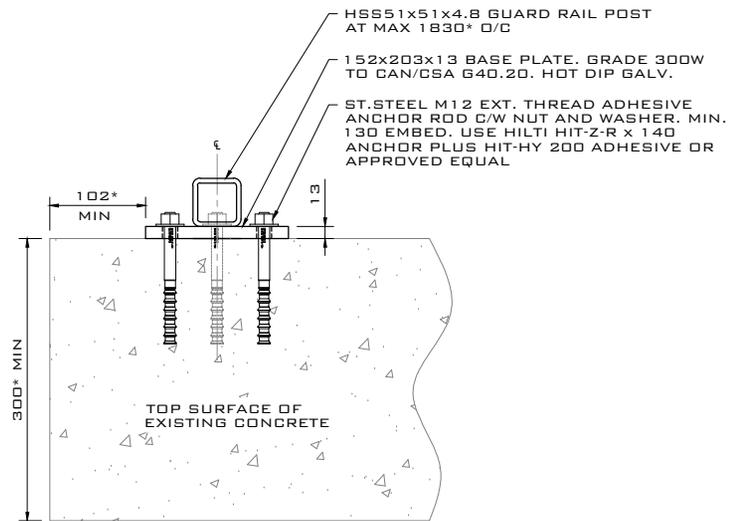
GENERAL NOTES:

- 1) ALL DIMENSIONS GIVEN ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE
- 2) BASE PLATES SHALL BE LEVELED TO PLUMB GUARD RAIL POSTS AS REQUIRED. WHERE SHIM AMOUNT EXCEEDS 13 mm, USE OF LEVELING NUT AND A BED OF NON-SHRINKABLE GROUT OF THICKNESS MIN 25 mm TO MAX 32mm SHALL BE USED AT UNDERSIDE OF PLATE. SLOPE SIDES OF GROUT BED AT 1:1 DOWN TO SURFACE. REFER TO SLOPED SURFACE MOUNT CONNECTION DETAIL FOR SLOPED SURFACE INSTALLATIONS SUCH AS STAIR RAILS, ETC.
- 3) DIMENSIONS ATTACHED TO AN ASTERISK (*) ARE CONSIDERED MINIMUM DESIGN CONSTRAINTS. SHOULD THESE DIMENSIONS NOT BE SATISFIED CONTACT AN ENGINEER TO CONFIRM FEASIBILITY OF CONNECTION.
- 4) INSPECT SURFACE PRIOR TO INSTALLATION. WHERE SURFACE CONCRETE IS CRACKED OR SCALED IN EXCESS OF 6 mm DEPTH THE SURFACE MUST BE REPAIRED PRIOR TO BASE PLATE INSTALLATION. REFER TO TYPICAL LOCAL CONCRETE REPAIR DETAILS AND/OR CONTACT AN ENGINEER





ELEVATION VIEW



PLAN VIEW

GENERAL NOTES:

- 1) ALL DIMENSIONS GIVEN ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE
- 2) BASE PLATES SHALL BE SHIMMED TO PLUMB GUARD RAIL POSTS AS REQUIRED.
- 3) DIMENSIONS ATTACHED TO AN ASTERISK (*) ARE CONSIDERED MINIMUM DESIGN CONSTRAINTS. SHOULD THESE DIMENSIONS NOT BE SATISFIED CONTACT AN ENGINEER TO CONFIRM FEASIBILITY OF CONNECTION.
- 4) INSPECT SURFACE PRIOR TO INSTALLATION. WHERE SURFACE CONCRETE IS CRACKED OR SCALED IN EXCESS OF 6 mm DEPTH THE SURFACE MUST BE REPAIRED PRIOR TO BASE PLATE INSTALLATION. REFER TO TYPICAL LOCAL CONCRETE REPAIR DETAILS AND/OR CONTACT AN ENGINEER

 Parks Canada



Project Name: **STANDARD DETAILS FOR PUBLIC AND OPERATOR SAFETY INSTALLATIONS ON DAMS**

Drawing Name: **STANDARD PUBLIC STYLE GUARD RAIL**

TYPICAL FACE MOUNT CONNECTION DETAIL

Drawn by: S.Gauthier

Drawing date: August 22, 2014

Checked by:

Check date:

Approve date:

Approved:

Drawing Scale:

1:8

Plot Scale:

1:1

Plot Size:

Letter

Drawing No:

P7

REV.A

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