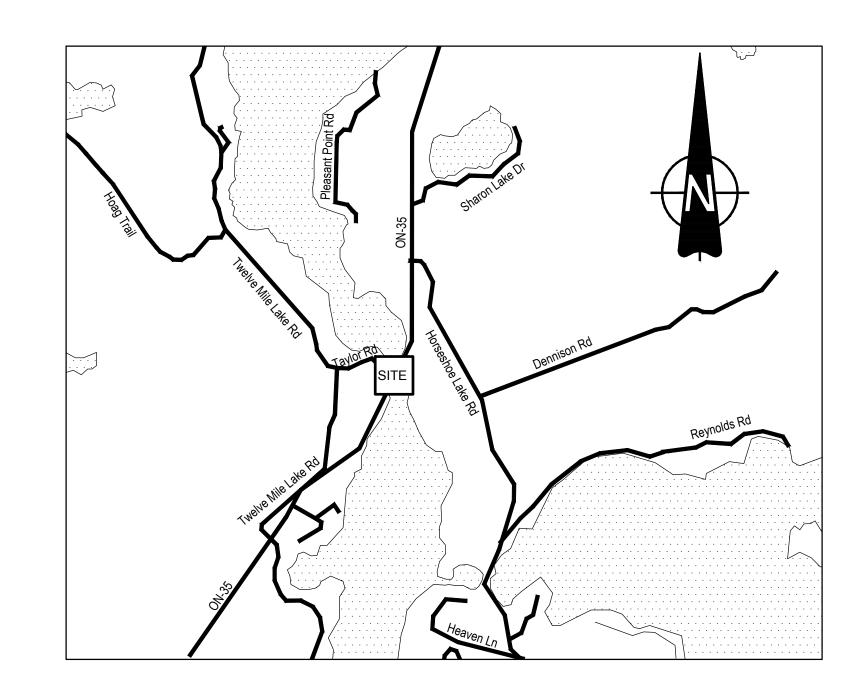
TWELVE MILE LAKE DAM REPLACEMENT

MINDEN HILLS, ONTARIO

DWG No.	DESCRIPTION
100	COVER SHEET AND DRAWING LIST
101	EXISTING CONDITIONS AND SITE SURVEY
102	EXISTING CONDITIONS - DAM ELEVATION AND SECTIONS
103	LAYDOWN AREA - PLAN VIEW
104	PROPOSED CONSTRUCTION STAGING - PLAN STAGE 1 TO 4
105	PROPOSED CONSTRUCTION STAGING - PLAN STAGE 5 TO 8
106	PROPOSED CONSTRUCTION STAGING - PLAN STAGE 9 TO 10
107	REMOVALS
108	CONSTRUCTION - NEW GENERAL ARRANGEMENT
109	CONSTRUCTION - ELEVATION AND SECTIONS
110	REINFORCING - PIER SECTIONS AND SILL SLAB
111	REINFORCING - DECK
112	TYPICAL DETAILS - GAIN EMBEDDED PARTS
113	DECK EQUIPMENT DETAILS
114	LOG PINNING MECHANISM - DETAILS & GENERAL ASSEMBLY
115	MISCELLANEOUS METAL DETAILS
116	MISCELLANEOUS DETAILS
117	PUBLIC SAFETY MEASURES
118	BOOM DETAILS
119	GRADING AND RESTORATION PLAN
120	STANDARD DETAILS 1
121	STANDARD DETAILS 2
122	STANDARD DETAILS 3
123	STANDARD DETAILS 4









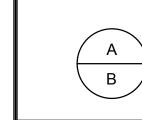
FOR TENDER

С	REVISED FOR TENDER	M.G.	JUL-24-2018
В	ISSUED FOR TENDER	M.G.	MAY-03-2018
Α	ISSUED FOR REVIEW	M.G.	MAR-28-2018
lo.	Description	Dwn.By Des.Par	Date

Revision / Révision

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A Detail number Numéro du détail B Location dwg. number Numéro sur dessin



Project title / Titre du projet

TWELVE MILE LAKE DAM REPLACEMENT

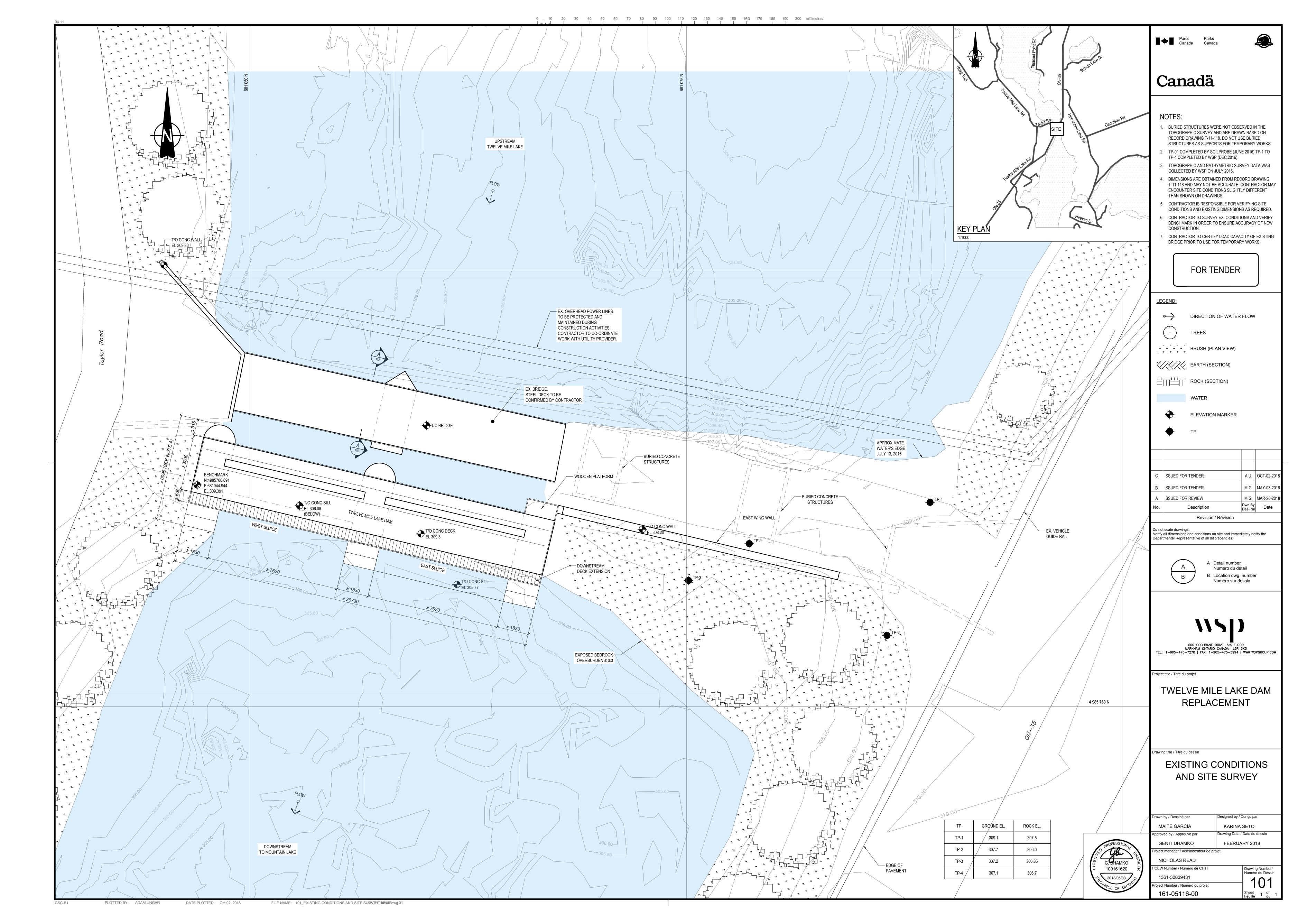
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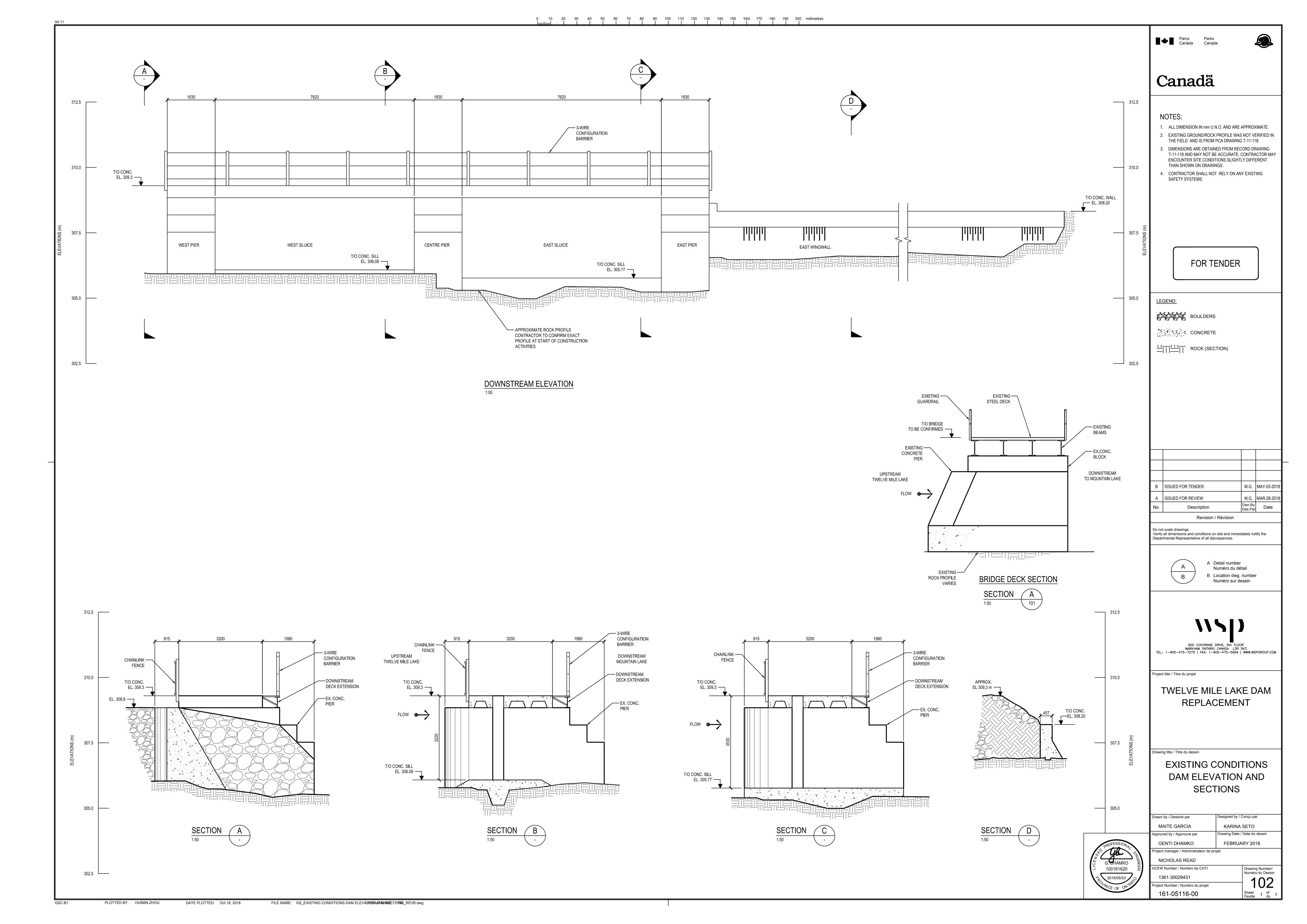
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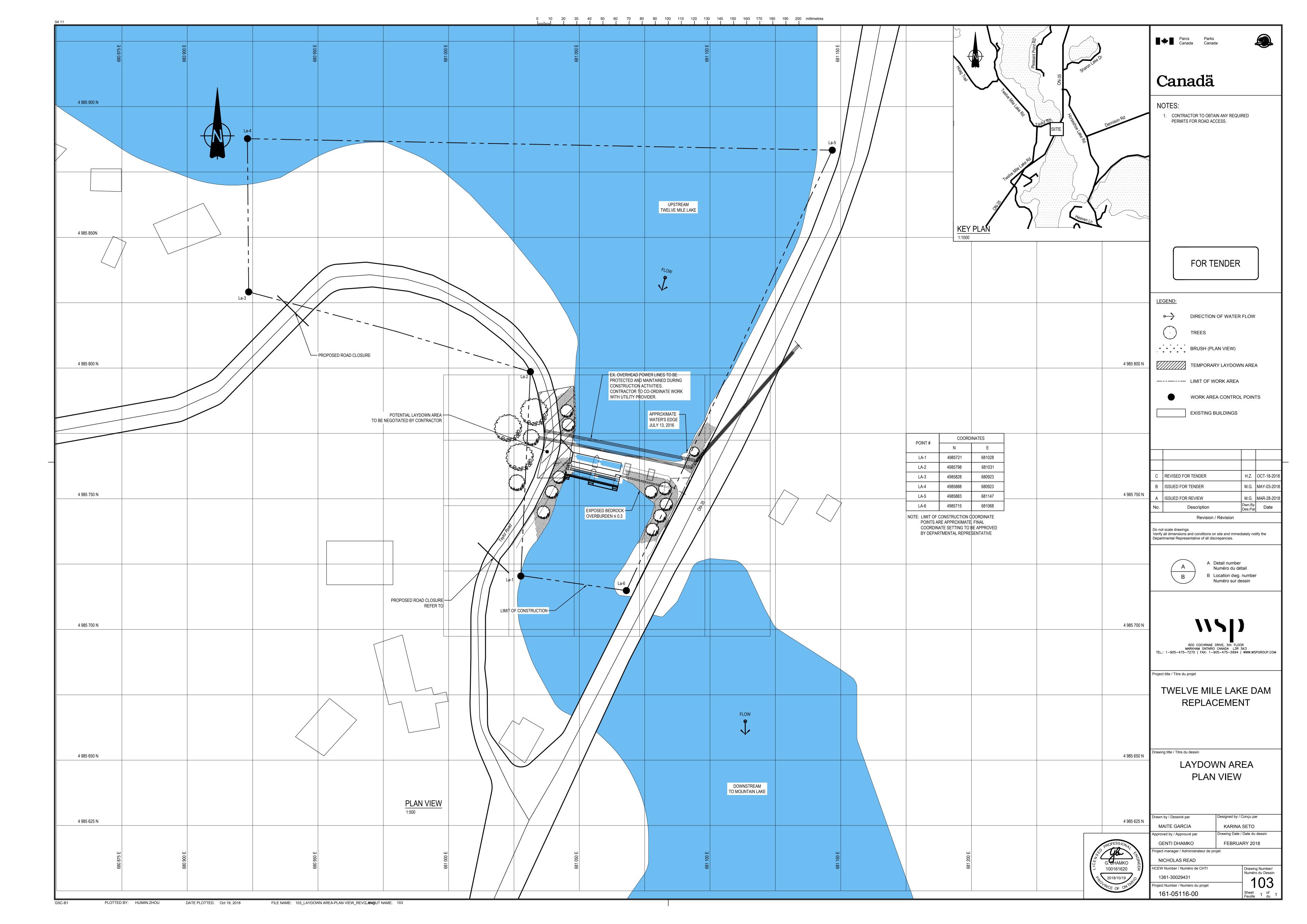
Drawn by / Dessine pai	Designed by / Conçu par
MAITE GARCIA	KARINA SETO
Approved by / Approuvé par	Drawing Date / Date du dessin
GENTI DHAMKO	FEBRUARY 2018
Draigat managar / Administratour da pro	siet

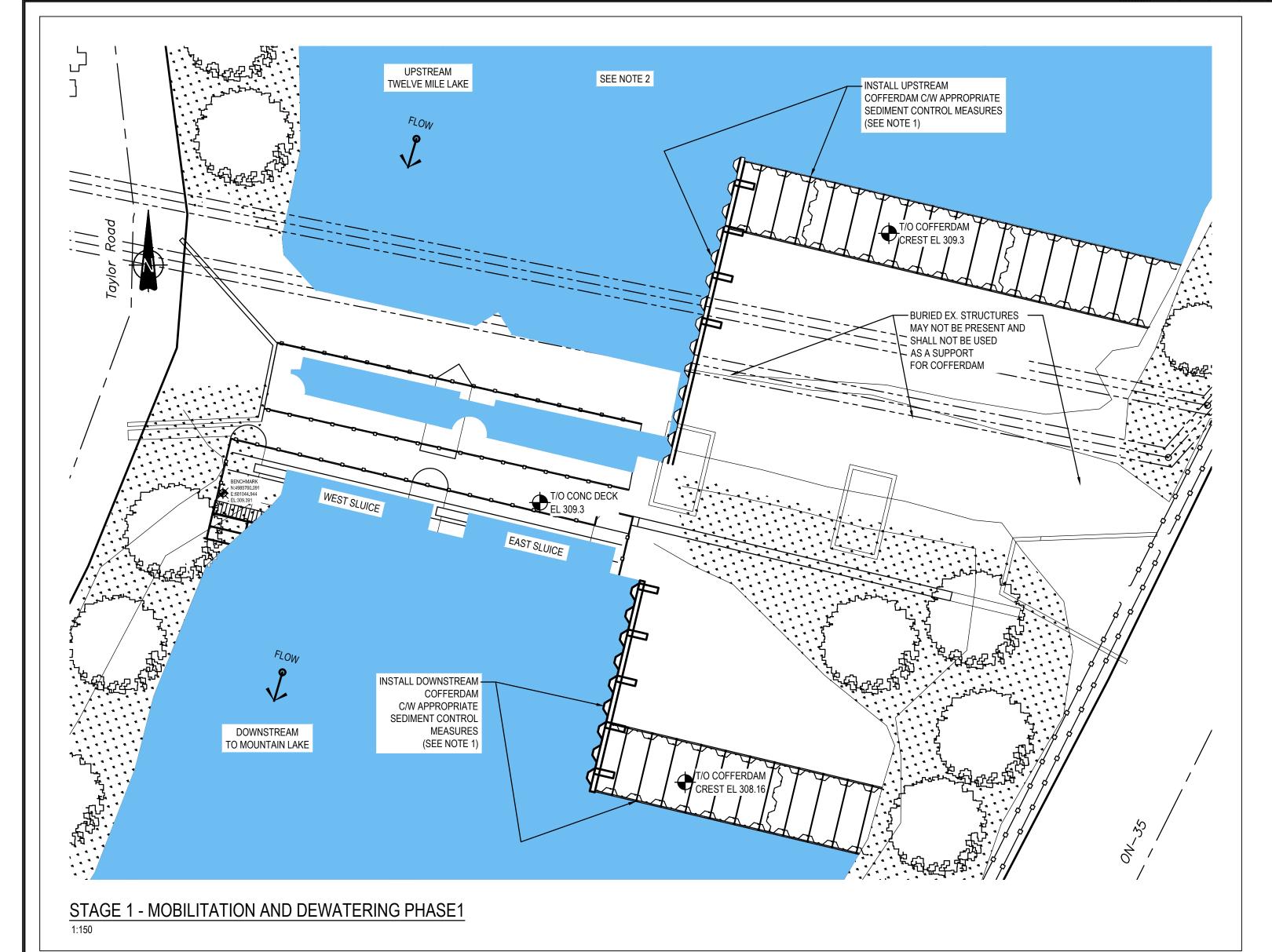
Project manager / Administrateur de projet NICHOLAS READ

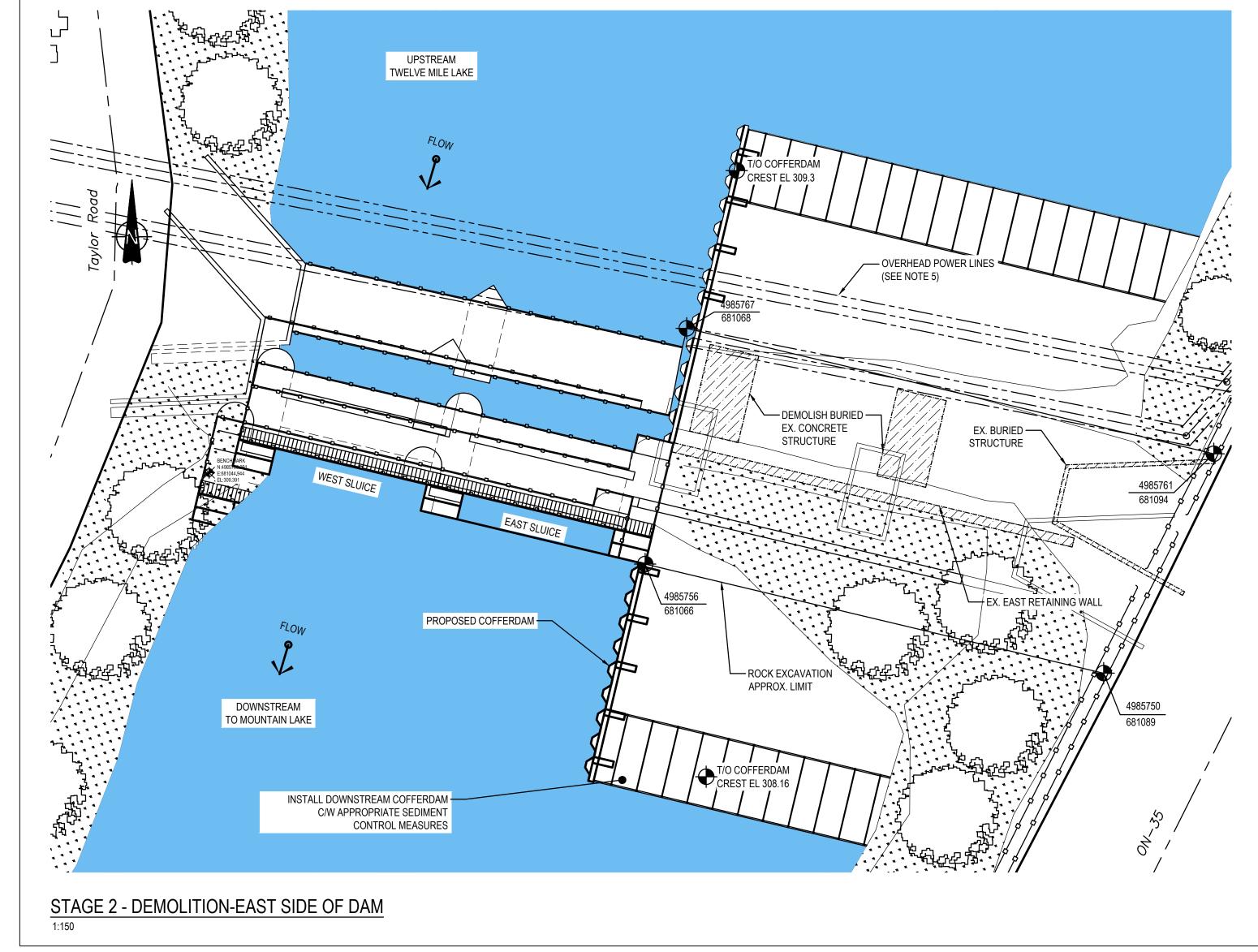
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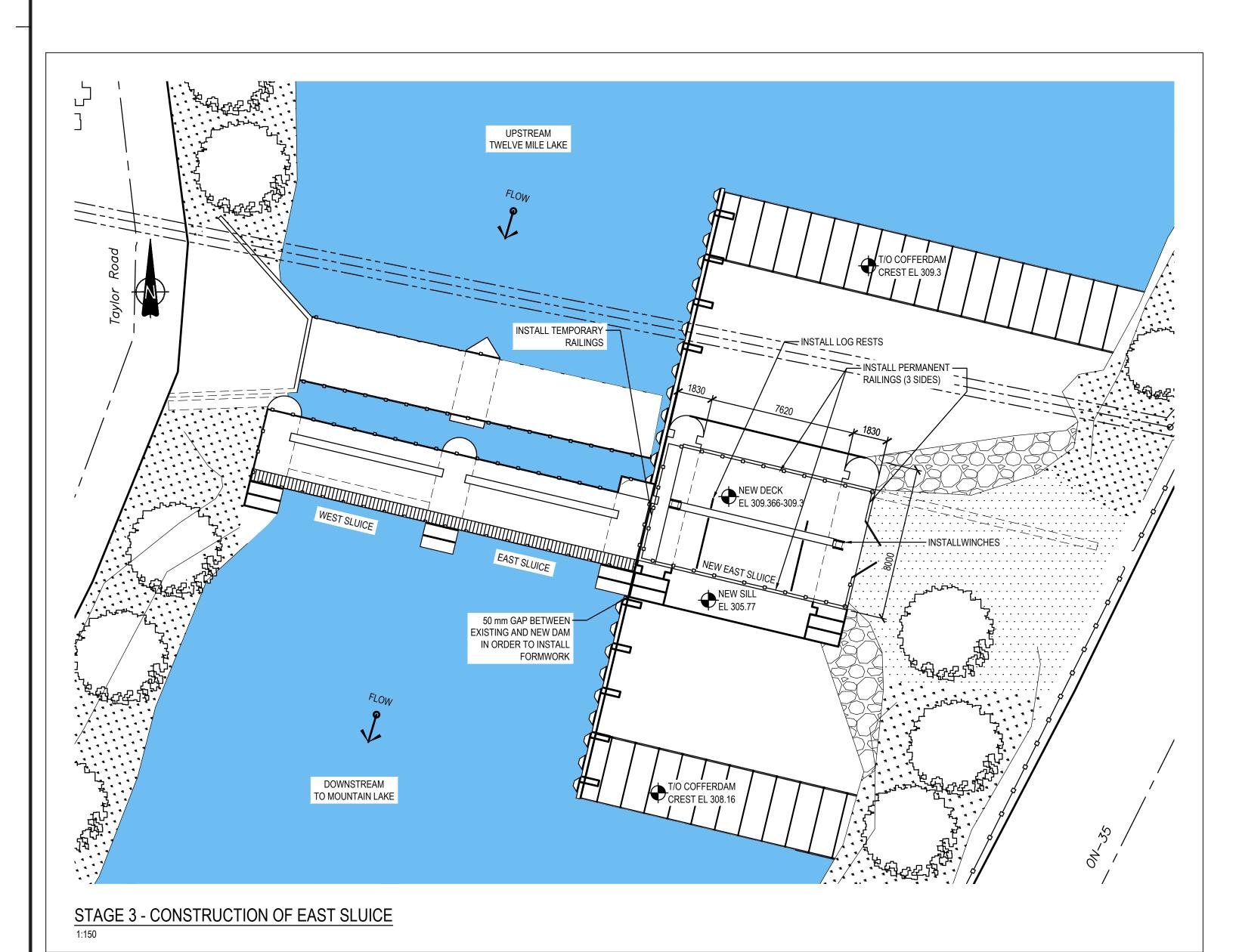


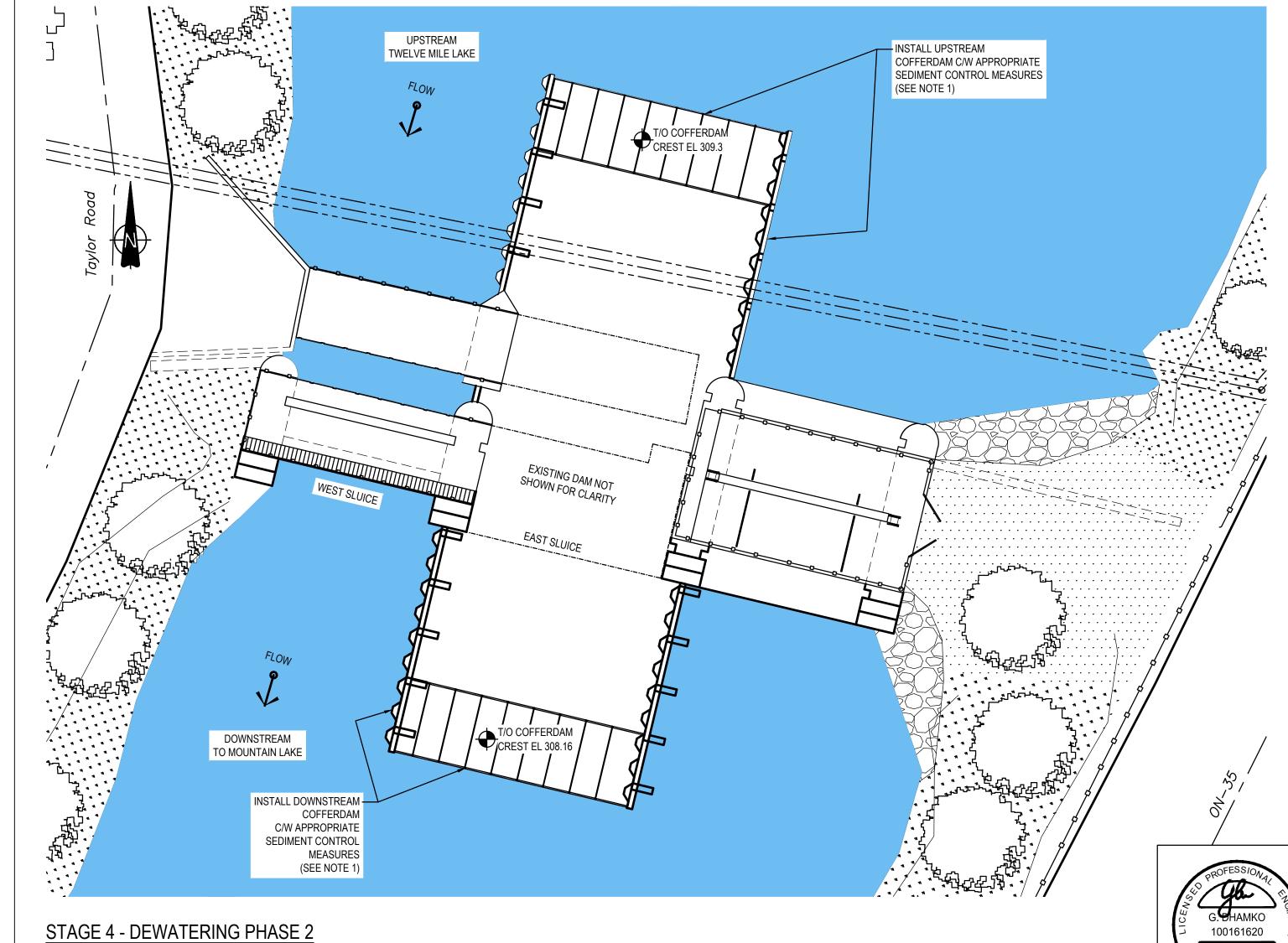
















- THE PROPOSED STAGING AND COFFERDAM CONFIGURATION IS FOR PLANNING AND PERMITTING PURPOSES ONLY. CONTRACTOR TO PROVIDE FINAL STAGING AND STAMPED COFFERDAM DESIGN TO DEPARTMENTAL REPRESENTATIVE FOR APPROVAL AT LEAST 14 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- DIVERSION WILL BE BY EXISTING DAM. CONTRACTOR TO PROVIDE ACCESS TO PCA FOR STOP LOGS OPERATIONS
- TWELVE MILE LAKE WATER LEVELS WILL BE CONTROLLED BY NEW DAM. CONTRACTOR TO PROVIDE ACCESS TO PCA
- FOR STOP LOGS OPERATIONS. PRIOR TO STAGE 4 - DEWATERING PHASE 2, NEW EAST SLUICE MUST BE OPERATIONAL AND LIFTING EQUIPMENT
- MUST BE ACCESSIBLE BY PCA OPERATORS.
- CONTRACTOR TO BE AWARE OF OVERHEAD POWER LINES FOR REQUIRED CLEARANCES WHEN SELECTING **EQUIPMENT AND CONSTRUCTION/DEMOLITION METHODS**
- PCA WILL NOT MANIPULATE LOGS TO STOP FLOWS FOR COFFERDAM INSTALATION/STAGING. TWO SLUICES MUST BE OPERATIONAL AT ALL TIMES, INCLUDING DURING THE INSTALLATION OF COFFERDAM, CONTRACTOR TO TAKE NECESSARY MEASURES TO PERFORM WORK WITH THE
- FOR SEASONAL AVERAGE WATER LEVELS OR ADDITIONAL INFORMATION REQUIRED FOR COFFERDAM DESIGN CONTACT THE ENGINEER.



LEGEND:

OUTLINED RESTRICTION.

DIRECTION OF WATER FLOW

HYDRAULIC SEEDING & GRANULAR FILI

ROCK FRAGMENTS / RIP-RAP

WATER

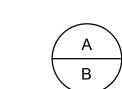
//// REMOVALS

B ISSUED FOR TENDER M.G. MAY-03-201 A ISSUED FOR REVIEW Dwn.By Des.Par Date

Revision / Révision Do not scale drawings.

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Description



A Detail number Numéro du détail B Location dwg. number Numéro sur dessin

115])

600 COCHRANE DRIVE, 5th FLOOR
MARKHAM ONTARIO CANADA L3R 5K3
TEL.: 1-905-475-7270 | FAX: 1-905-475-5994 | WWW.WSPGROUP.COM

Project title / Titre du projet

TWELVE MILE LAKE DAM REPLACEMENT

Drawing title / Titre du dessin

PROPOSED CONSTRUCTION STAGING PLAN

STAGE 1 TO 4 MAITE GARCIA KARINA SETO

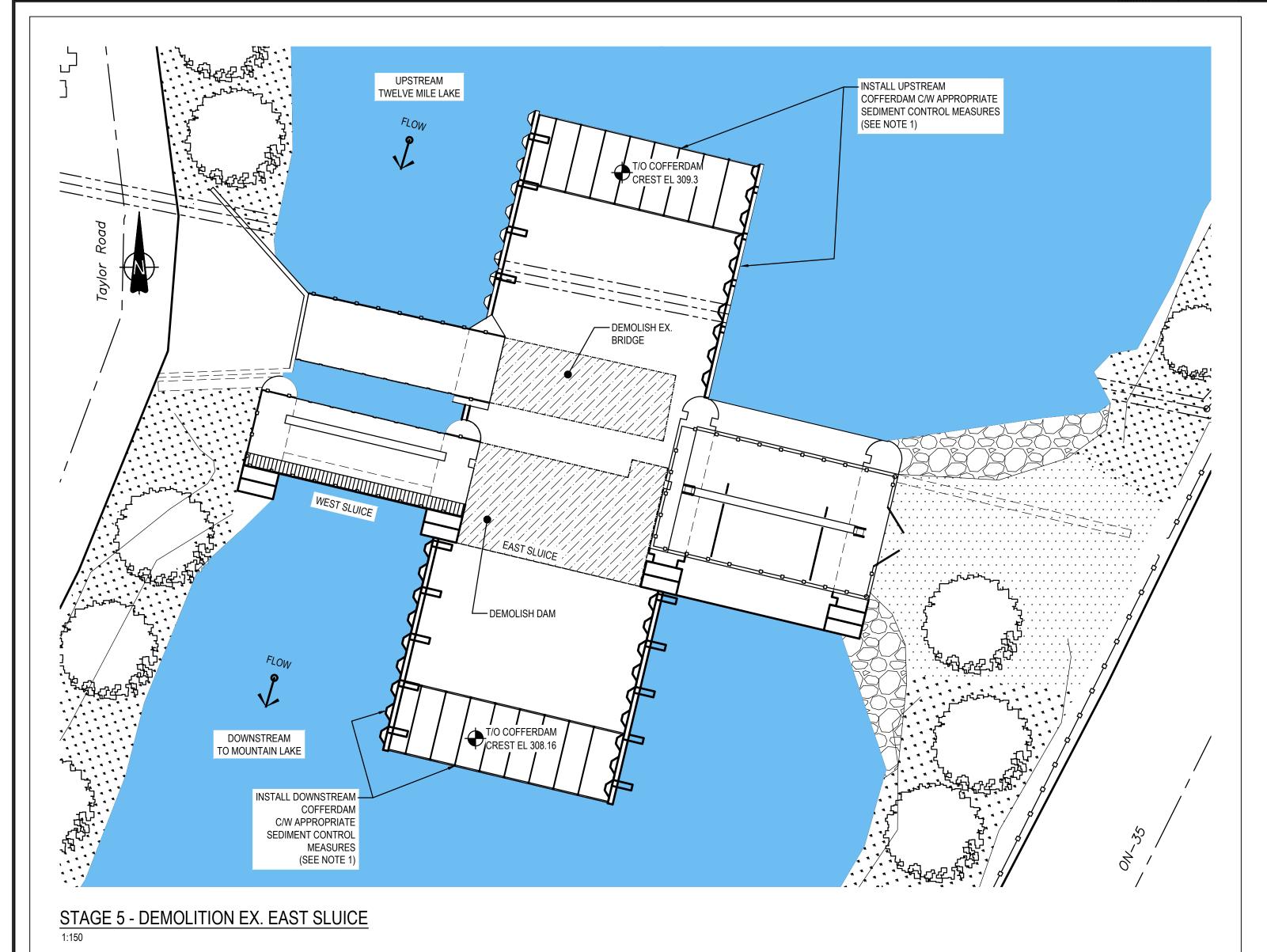
GENTI DHAMKO FEBRUARY 2018 Project manager / Administrateur de projet

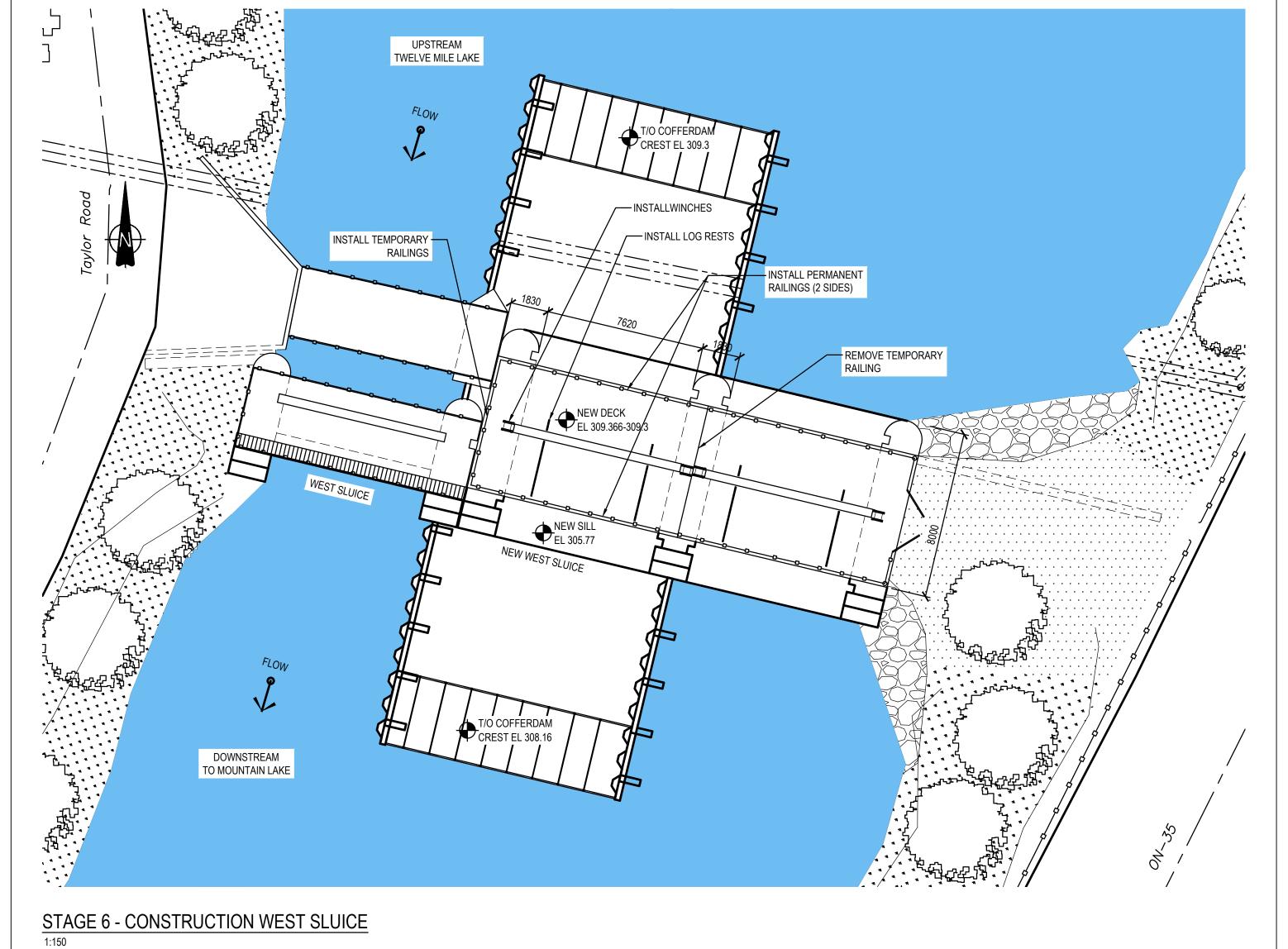
NICHOLAS READ

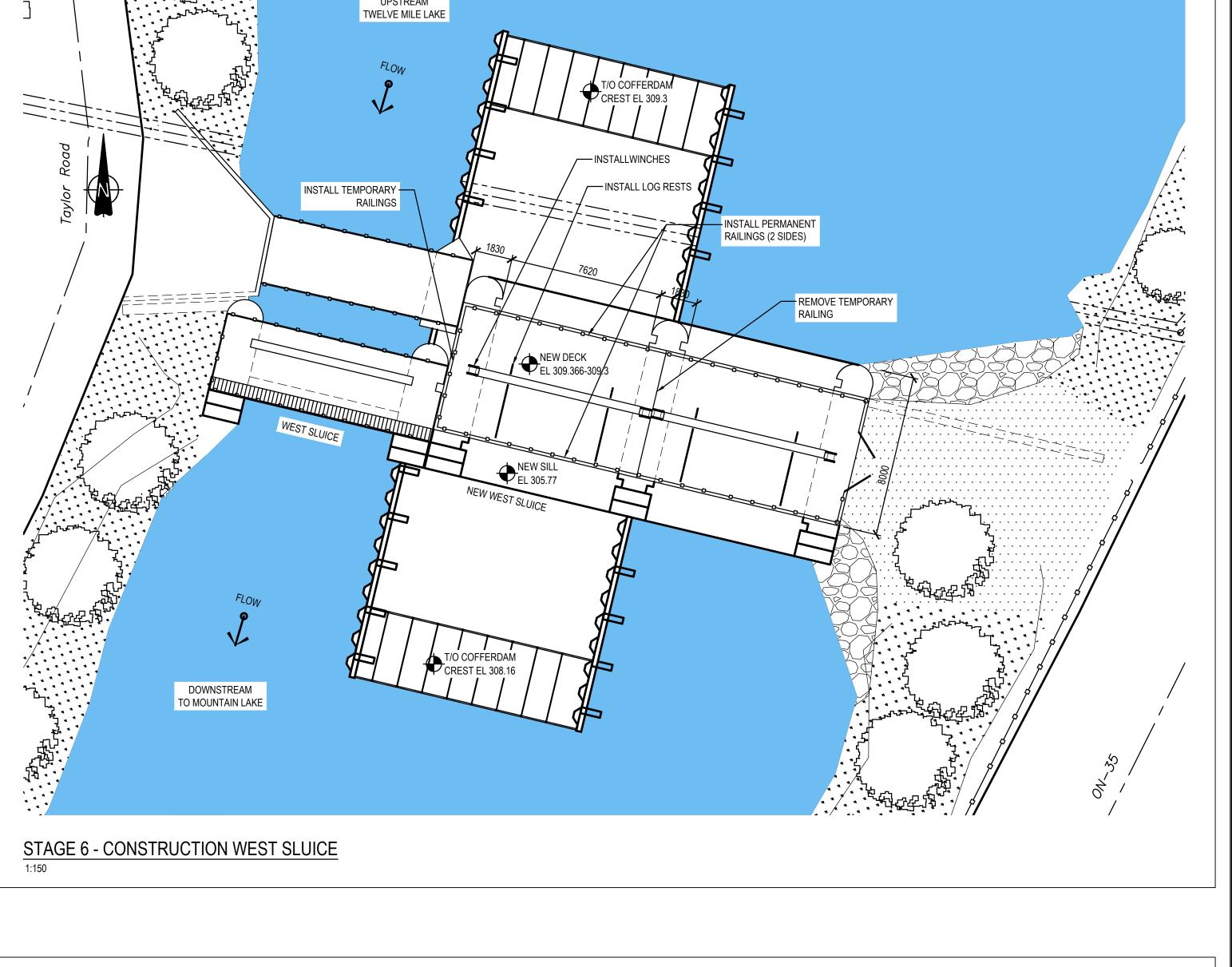
Approved by / Approuvé par

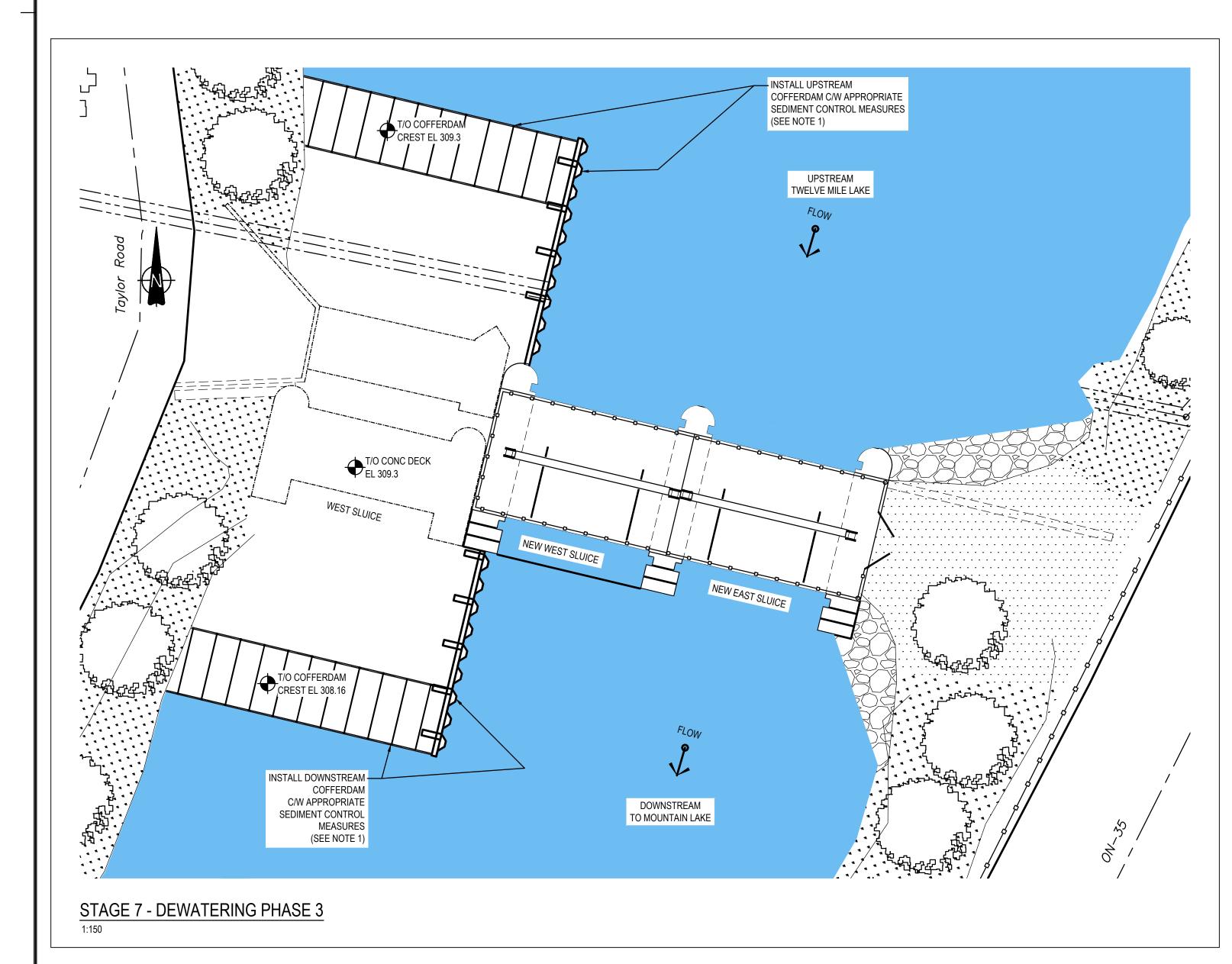
2018/05/03

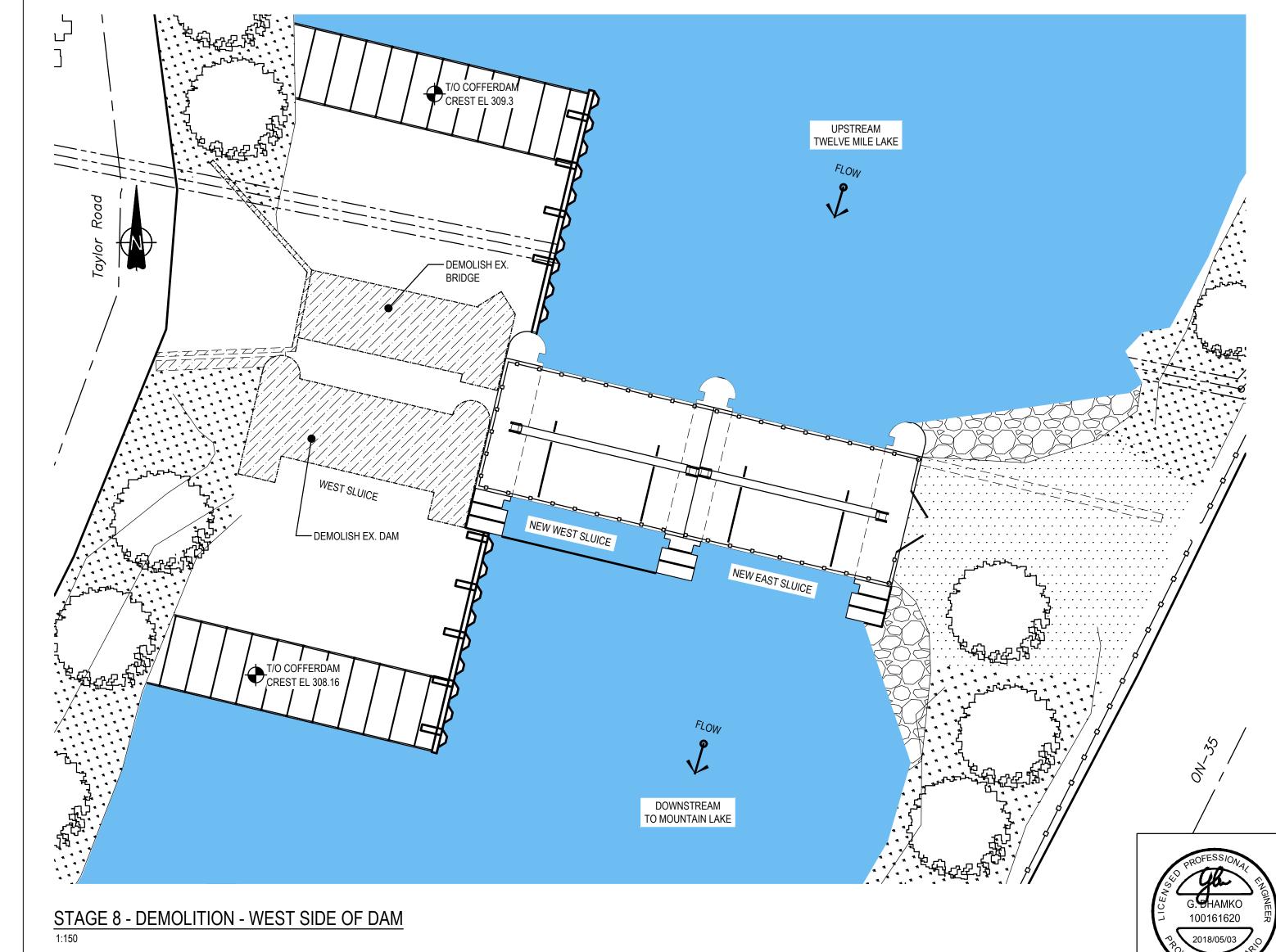
Drawing Number/ Numéro du Dessin HCEW Number / Numéro de CHTI 1361-30029431 104 Project Number / Numéro du projet 161-05116-00











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FOR TENDER

LEGEND:

DIRECTION OF WATER FLOW

HYDRAULIC SEEDING & GRANULAR FILL

ROCK FRAGMENTS / RIP-RAP

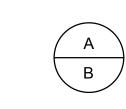
//// REMOVALS

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115]) 600 COCHRANE DRIVE, 5th FLOOR
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TEL.: 1-905-475-7270 | FAX: 1-905-475-5994 | WWW.WSPGROUP.COM

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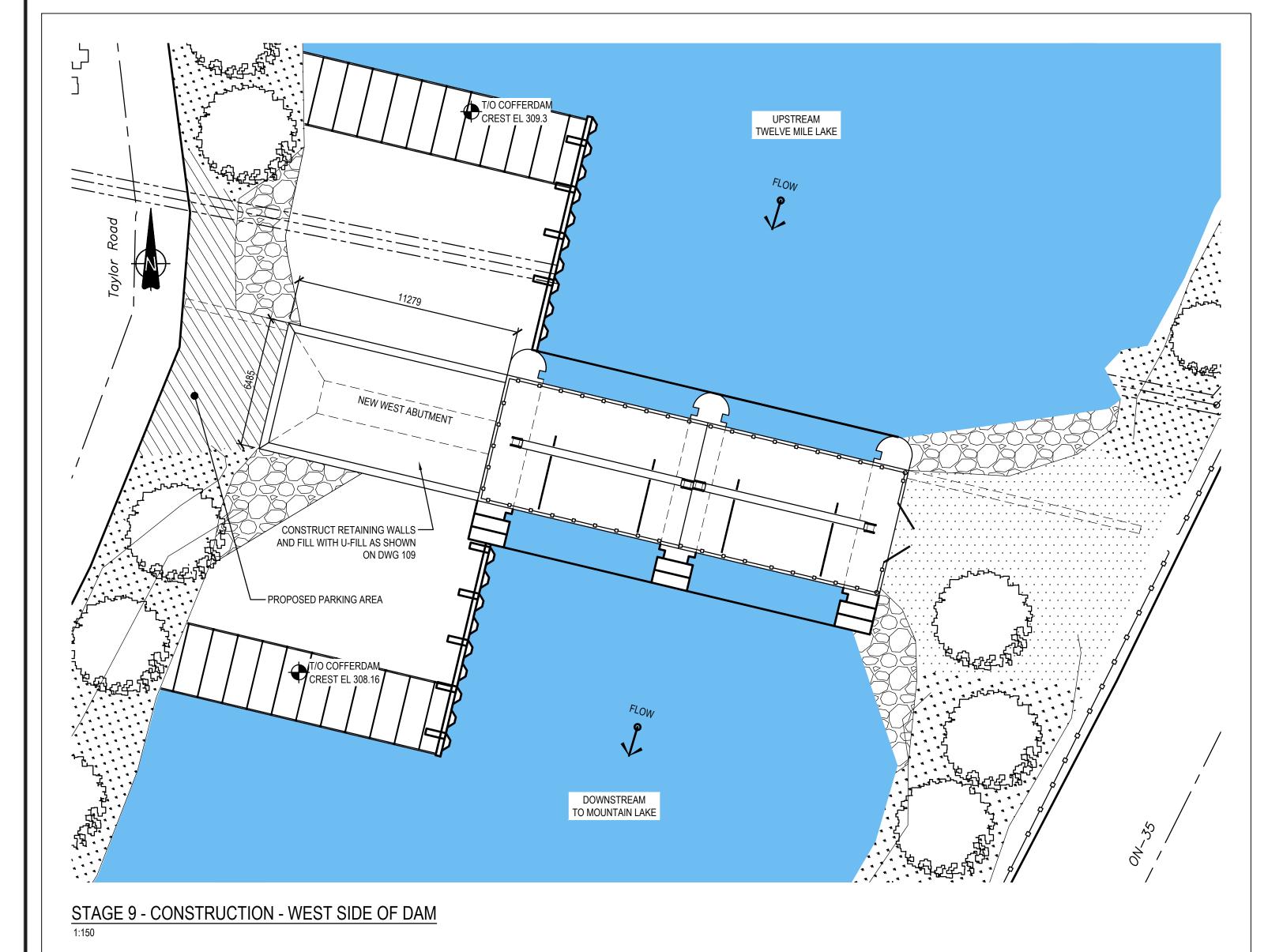
Drawing title / Titre du dessin

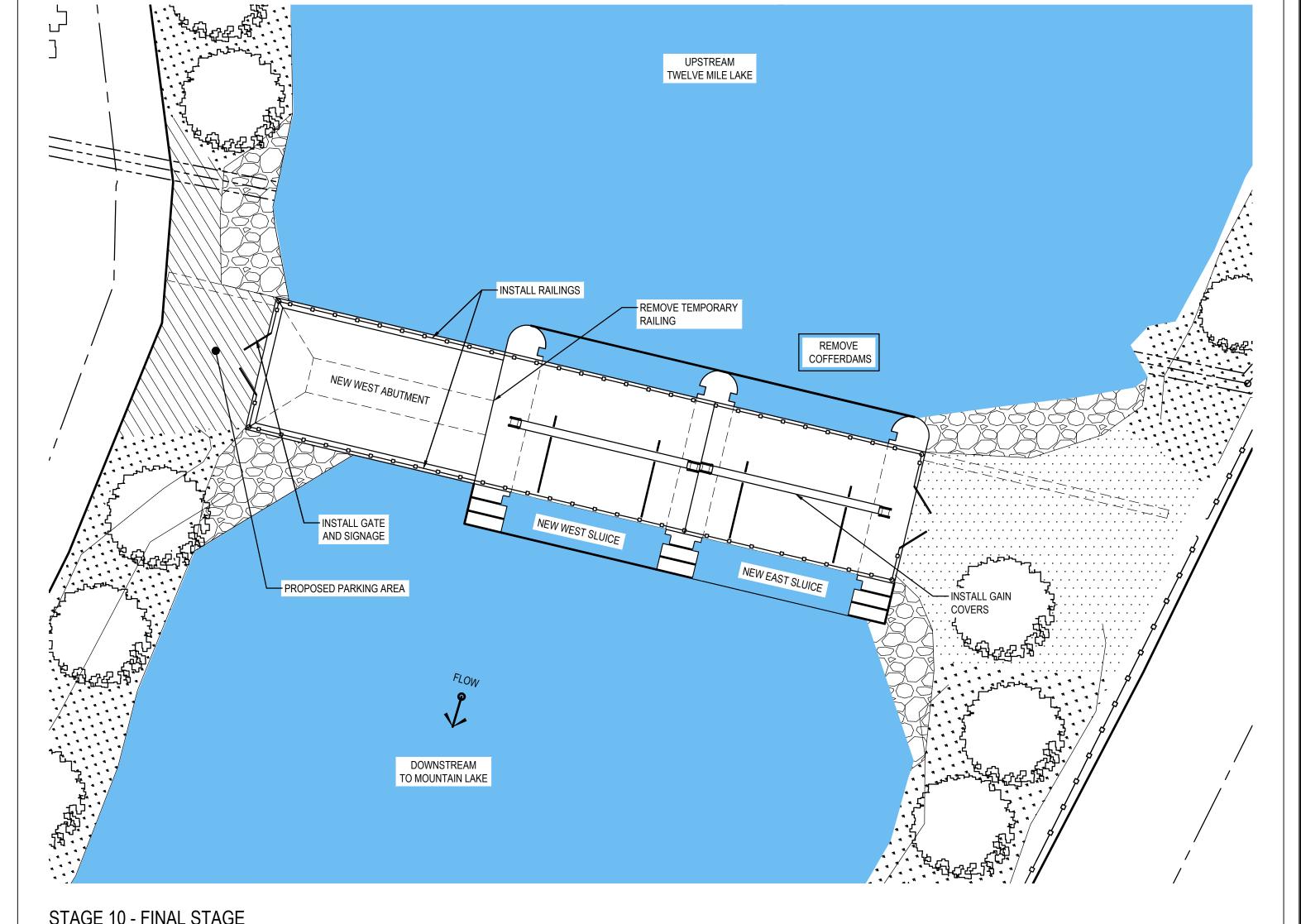
PROPOSED CONSTRUCTION STAGING PLAN STAGE 5 TO 8

MAITE GARCIA KARINA SETO FEBRUARY 2018 GENTI DHAMKO

oject manager / Administrateur de projet NICHOLAS READ

HCEW Number / Numéro de CHTI Drawing Number/ Numéro du Dessin 1361-30029431 105 Project Number / Numéro du projet 161-05116-00









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FOR TENDER

LEGEND:

DIRECTION OF WATER FLOW

HYDRAULIC SEEDING & GRANULAR FILL

ROCK FRAGMENTS / RIP-RAP

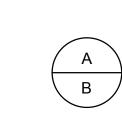
//// REMOVALS

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Project title / Titre du projet

TWELVE MILE LAKE DAM REPLACEMENT

Drawing title / Titre du dessin

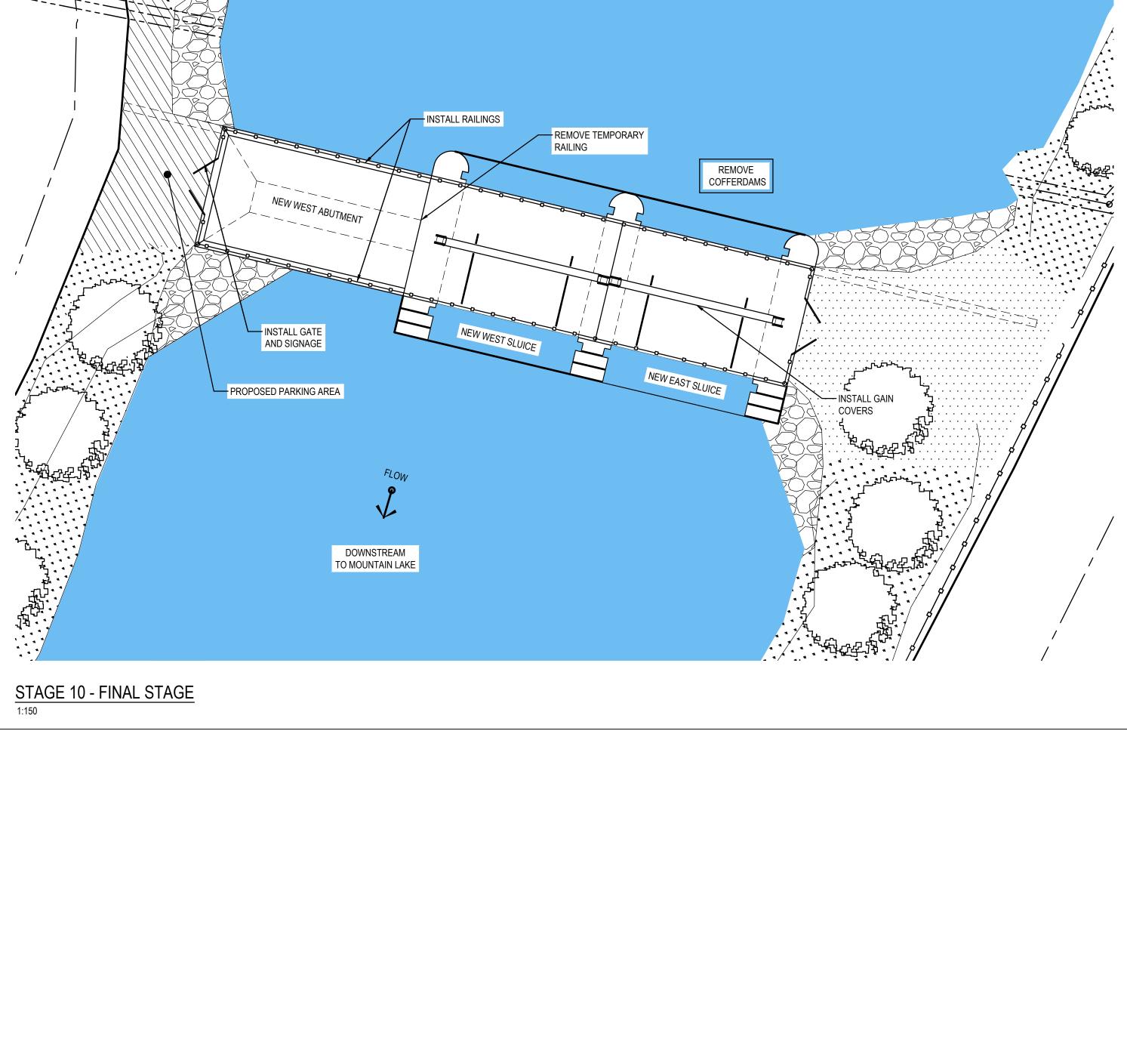
PROPOSED CONSTRUCTION STAGING PLAN

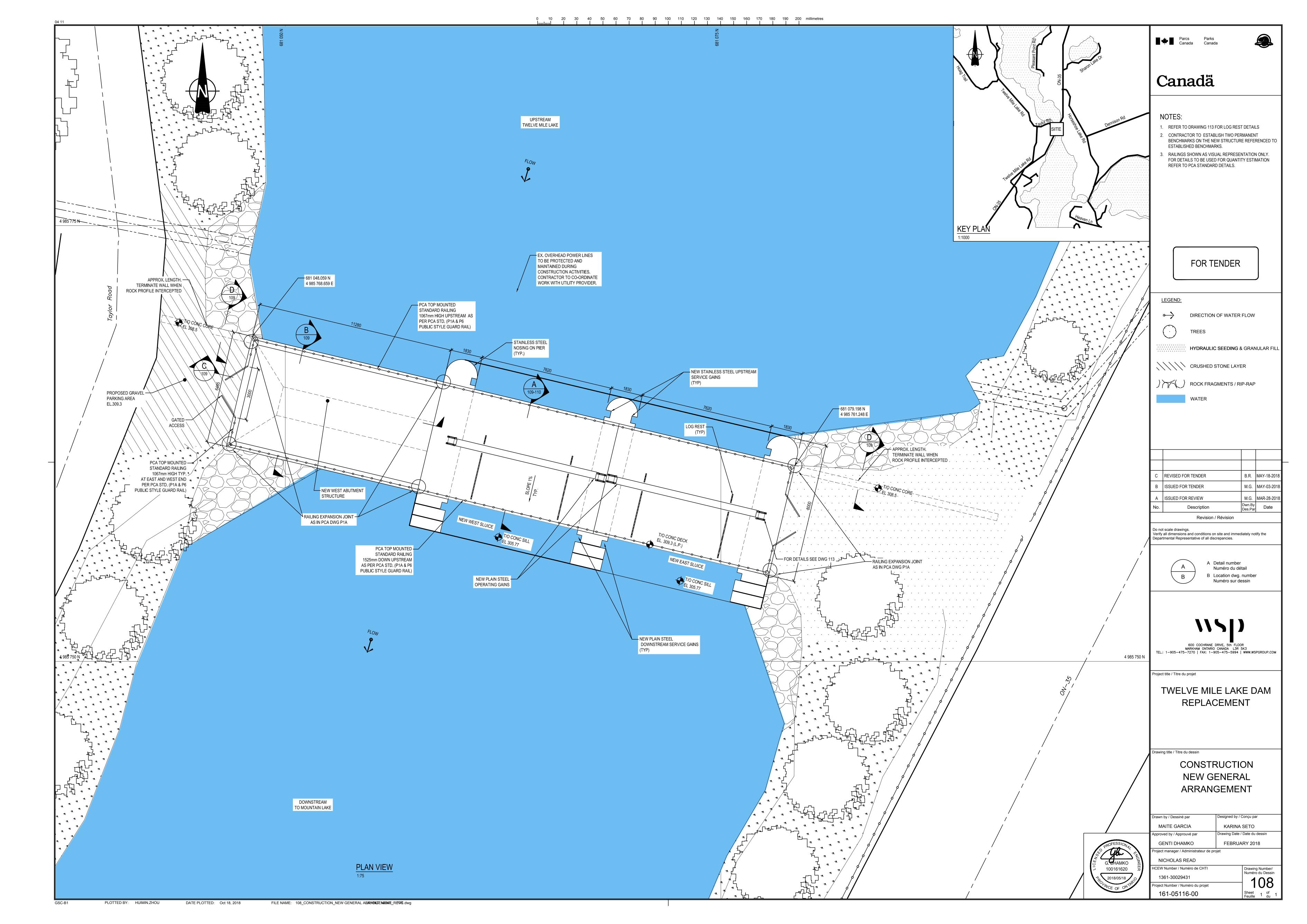
STAGE 9 TO 10 Drawn by / Dessiné par

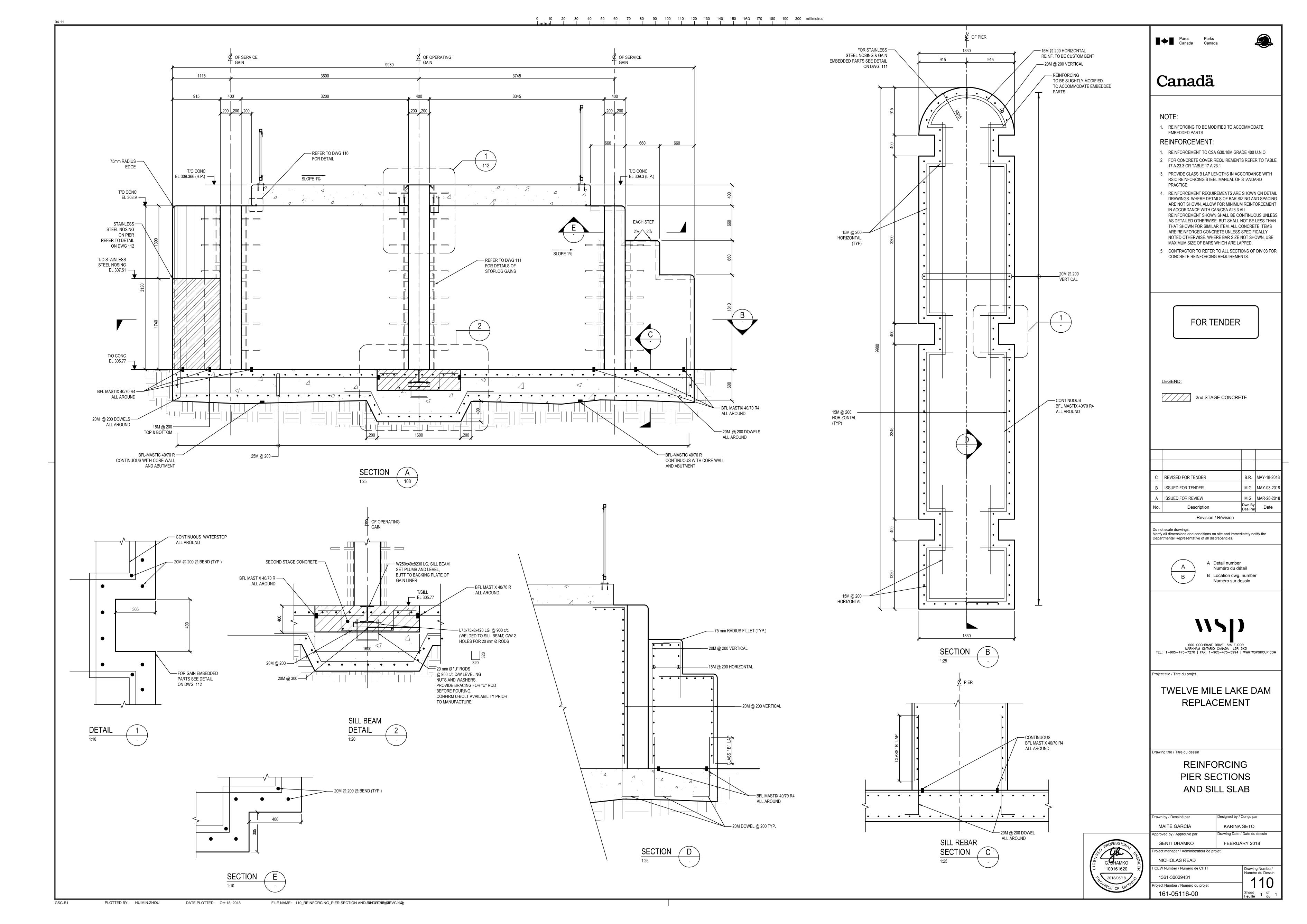
MAITE GARCIA KARINA SETO Approved by / Approuvé par GENTI DHAMKO FEBRUARY 2018

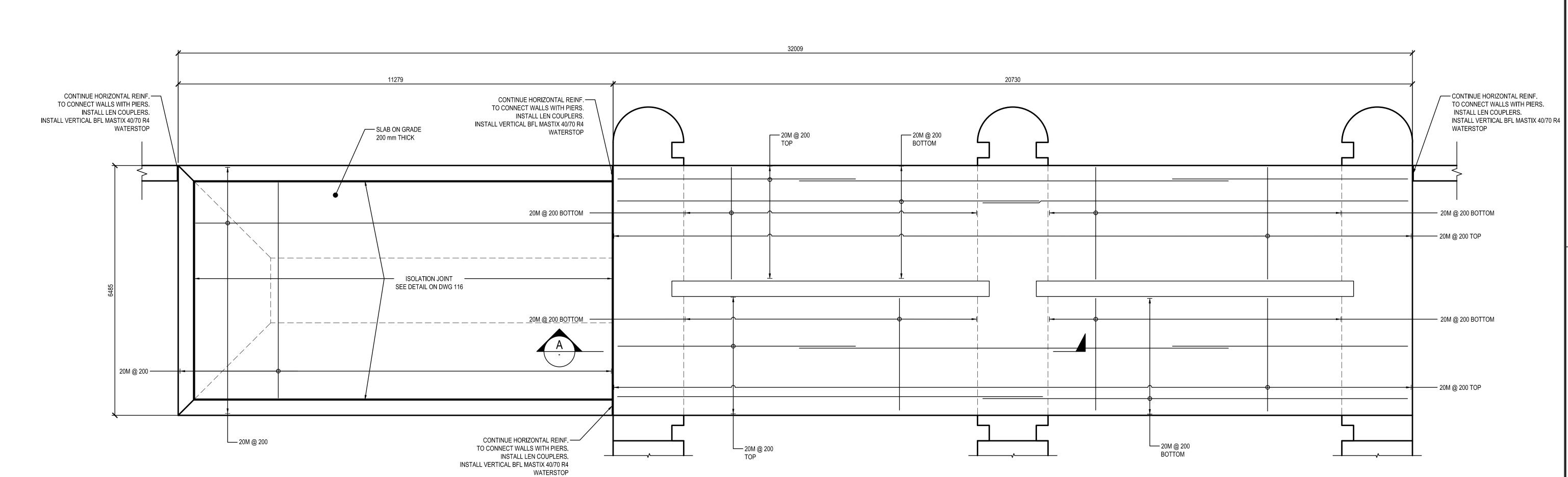
Project manager / Administrateur de projet NICHOLAS READ

Drawing Number/ Numéro du Dessin HCEW Number / Numéro de CHTI 1361-30029431 106 Project Number / Numéro du projet 161-05116-00

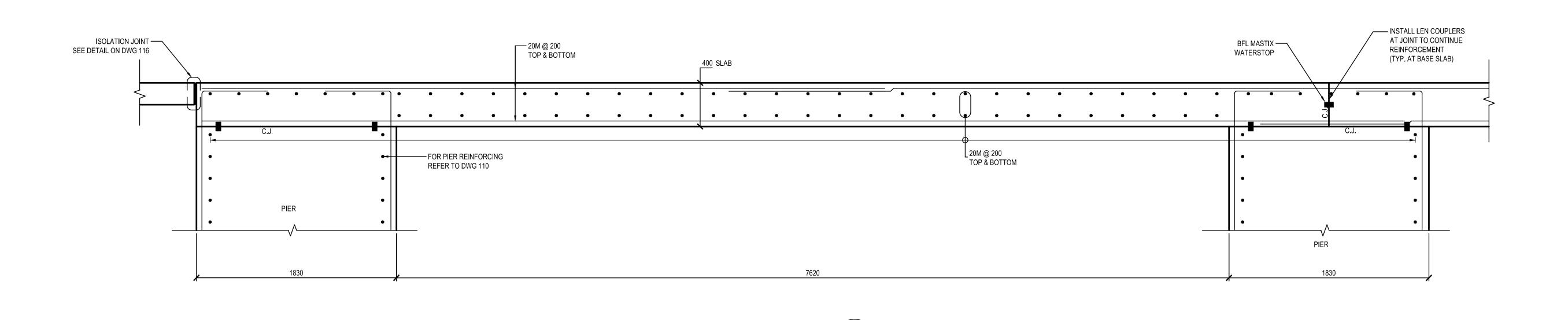


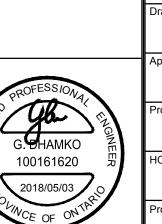






DECK PLAN VIEW







Canadä

NOTE:

1. WINCH ANCHORS NOT SHOWN FOR CLARITY.

REINFORCEMENT:

- 1. REINFORCEMENT TO CSA G30.18M GRADE 400 U.N.O.
- FOR CONCRETE COVER REQUIREMENTS REFER TO TABLE 17 A 23.3 OR TABLE 17 A 23.1
- 3. PROVIDE CLASS B LAP LENGTHS IN ACCORDANCE WITH RSIC REINFORCING STEEL MANUAL OF STANDARD
- 4. REINFORCEMENT REQUIREMENTS ARE SHOWN ON DETAIL DRAWINGS. WHERE DETAILS OF BAR SIZING AND SPACING ARE NOT SHOWN, ALLOW FOR MINIMUM REINFORCEMENT IN ACCORDANCE WITH CAN/CSA A23.3 ALL REINFORCEMENT SHOWN SHALL BE CONTINUOUS UNLESS AS DETAILED OTHERWISE. BUT SHALL NOT BE LESS THAN
- NOTED OTHERWISE. WHERE BAR SIZE NOT SHOWN, USE MAXIMUM SIZE OF BARS WHICH ARE LAPPED.

 5. CONTRACTOR TO REFER TO ALL SECTIONS OF DIV 03 FOR

THAT SHOWN FOR SIMILAR ITEM. ALL CONCRETE ITEMS ARE REINFORCED CONCRETE UNLESS SPECIFICALLY

6. PROVIDE LEN COUPLERS AS REQUIRED AND SHOWN ON DRAWINGS.

CONCRETE REINFORCING REQUIREMENTS.

FOR TENDER

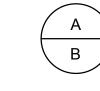
В	ISSUED FOR TENDER	M.G.	MAY-03-201
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Numéro du détail

B Location dwg. number
Numéro sur dessin

A Detail number



Project title / Titre du projet

TWELVE MILE LAKE DAM REPLACEMENT

Drawing title / Titre du dessin

REINFORCING DECK

Drawn by / Dessiné par	Designed by / Conçu par
MAITE GARCIA	KARINA SETO
Approved by / Approuvé par	Drawing Date / Date du dessin
GENTI DHAMKO	FEBRUARY 2018

Project manager / Administrateur de projet

NICHOLAS READ

HCEW Number / Numéro de CHTI

1361-30029431

Project Number / Numéro du projet

161-05116-00

Drawing Number / Numéro du Dessin

1 1 1

Sheet Feuille 1 of du 1

8, 2018 FILE NAME: 111_REINFORCING_DECK_REVB.dwg LAYOUT NAME: 111

PLOTTED BY: HUIMIN.ZHOU

DATE PLOTTED: Oct 18, 2018

awn by / Dessiné par	Designed by / Conçu par	
MAITE GARCIA	KARINA SETO	
proved by / Approuvé par	Drawing Date / Date du dessin	
GENTI DHAMKO	FEBRUARY 2018	
iect manager / Administrateur de projet		

161-05116-00

PLOTTED BY: HUIMIN.ZHOU

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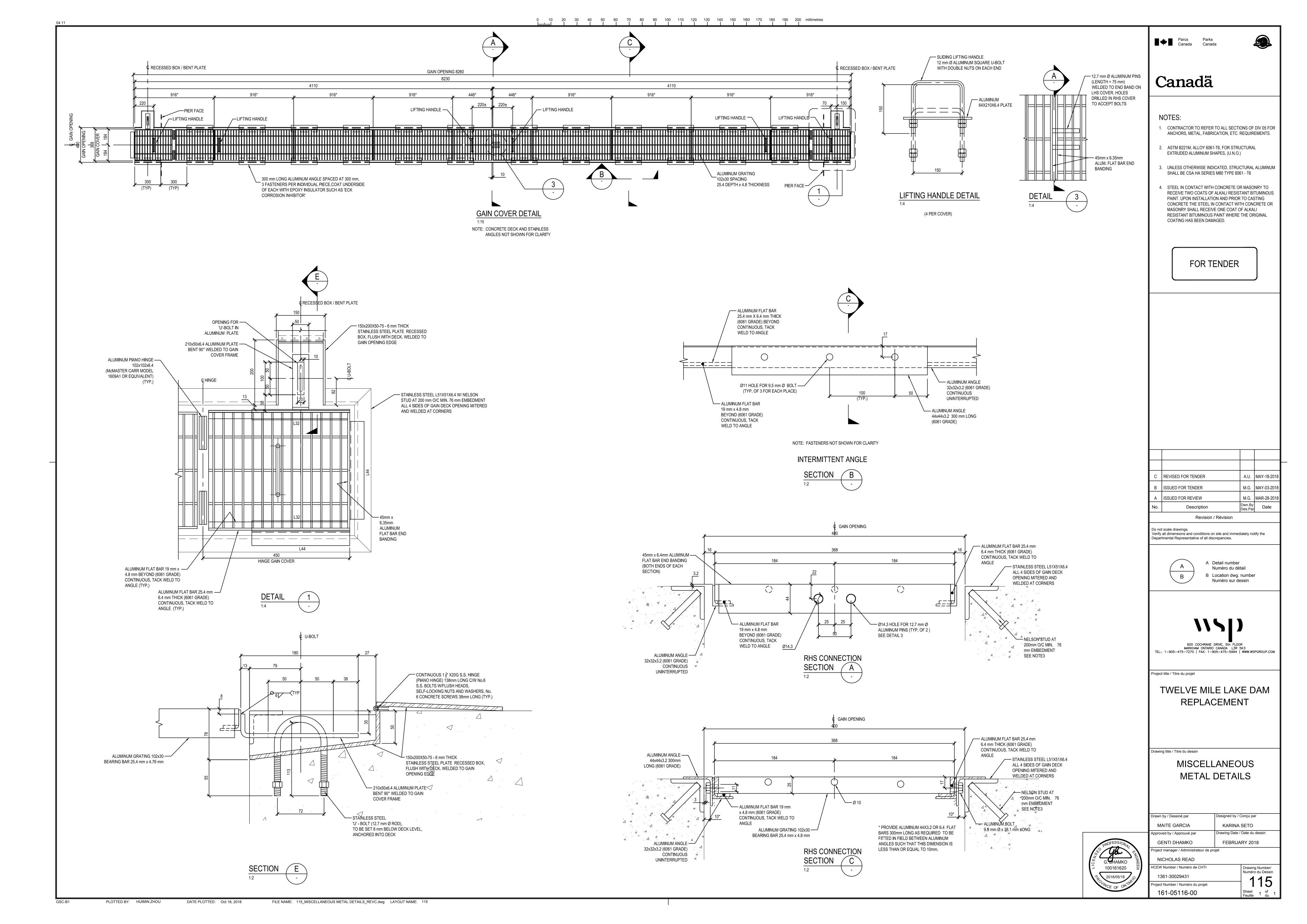
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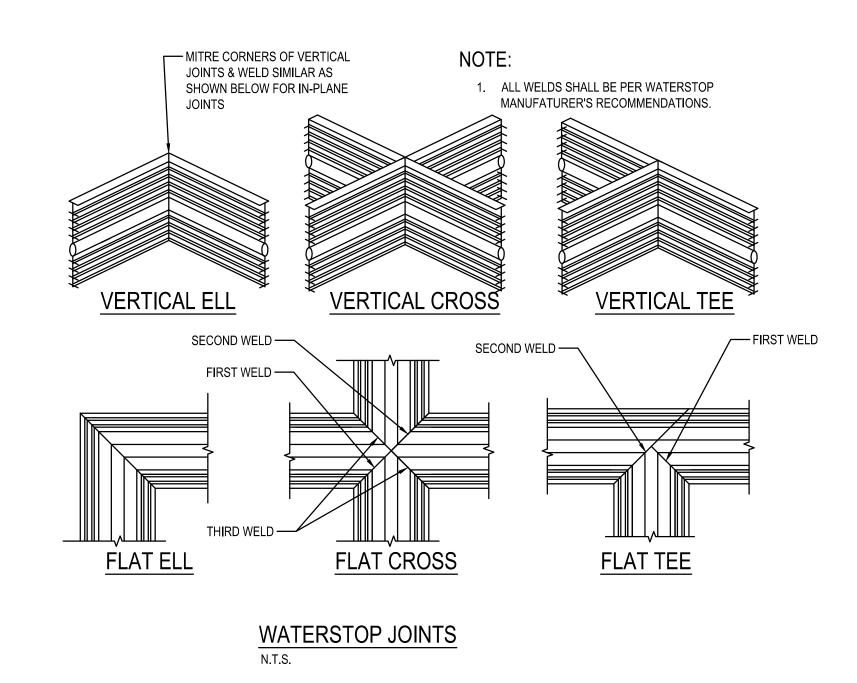
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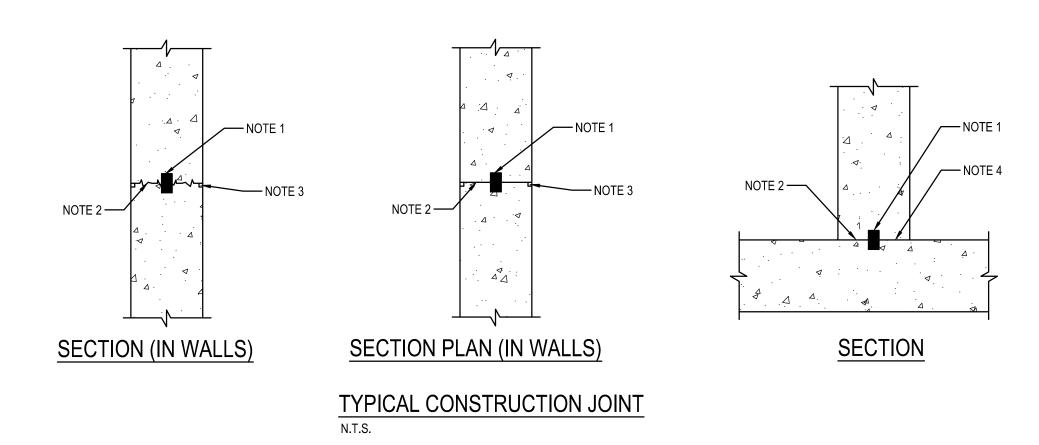
GENTI DHAMKO FEBRUARY 2018

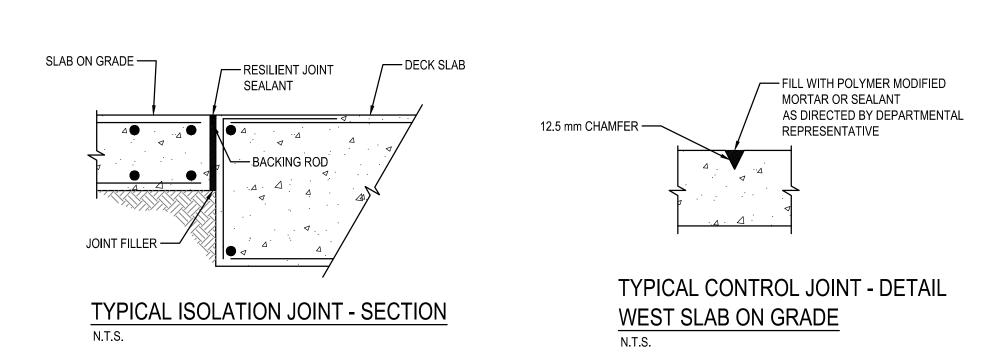
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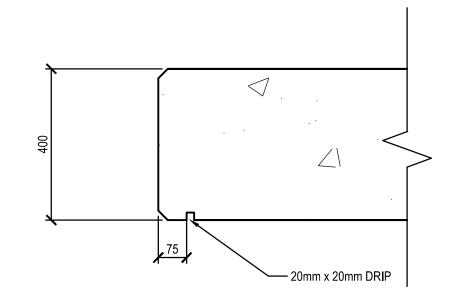
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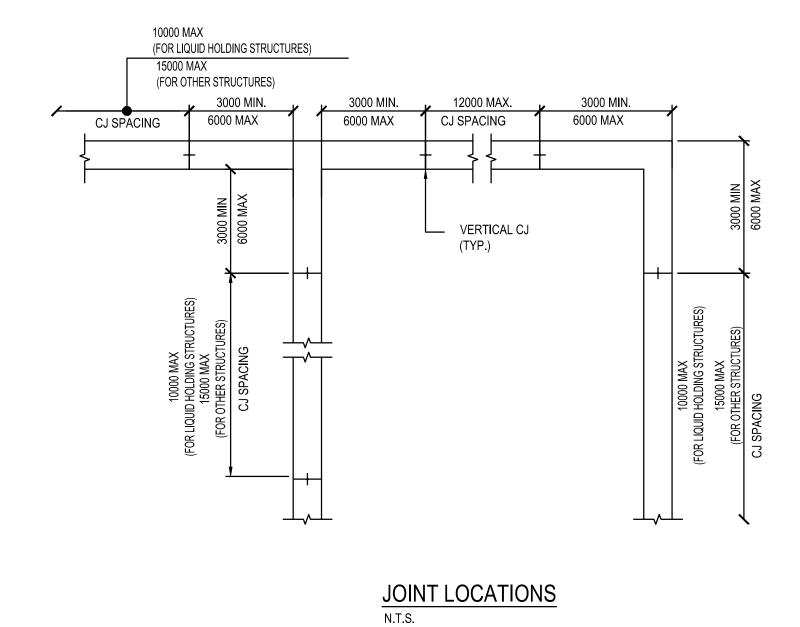


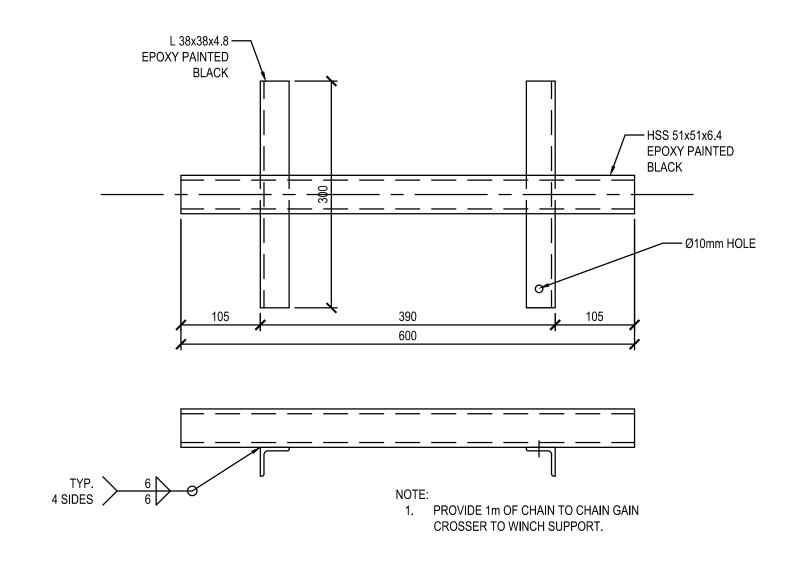






EDGE REGLET





GAIN CROSSER DETAIL





NOTES:

- 1. BFL MASTIX 40/70 R4 WATERSTOP.
- 2. CLEAN FIRST POUR SURFACE THOROUGHLY OF ALL CONTAMINANTS LAITANCE OR INFERIOR CONCRETE BEFORE SECOND POUR AND ROUGHEN TO FULL 5 mm
- 3. 13 mm DEEP 20 mm WIDE REGLET FOR EXTERIOR FACE. APPLY CEMENTITIOUS MORTAR.
- 4. LEAVE SURFACE ROUGH BETWEEN POUR AT HORIZONTAL
- 5. LOCATE WALL CONSTRUCTION JOINTS AS SHOWN, UNLESS INDICATED OTHERWISE.

FOR TENDER

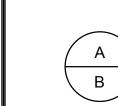
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Revision / Révision

Description



A Detail number Numéro du détail B Location dwg. number Numéro sur dessin

Dwn.By Des.Par Date



Project title / Titre du projet

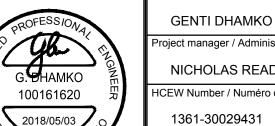
TWELVE MILE LAKE DAM REPLACEMENT

Drawing title / Titre du dessin

MISCELLANEOUS DETAILS

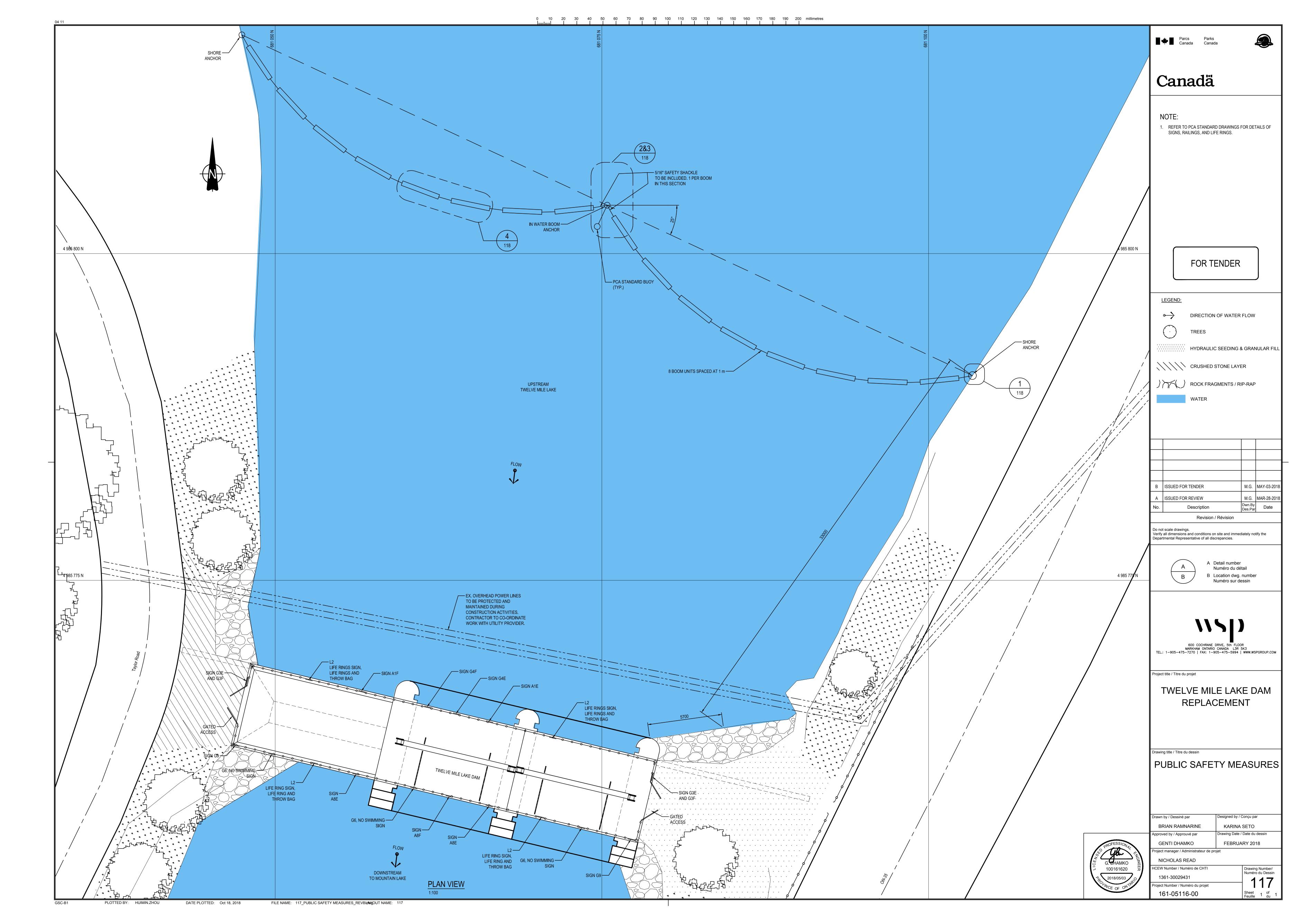
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MAITE GARCIA	KARINA SETO
Approved by / Approuvé par	Drawing Date / Date du dessin
GENTI DHAMKO	FEBRUARY 2018

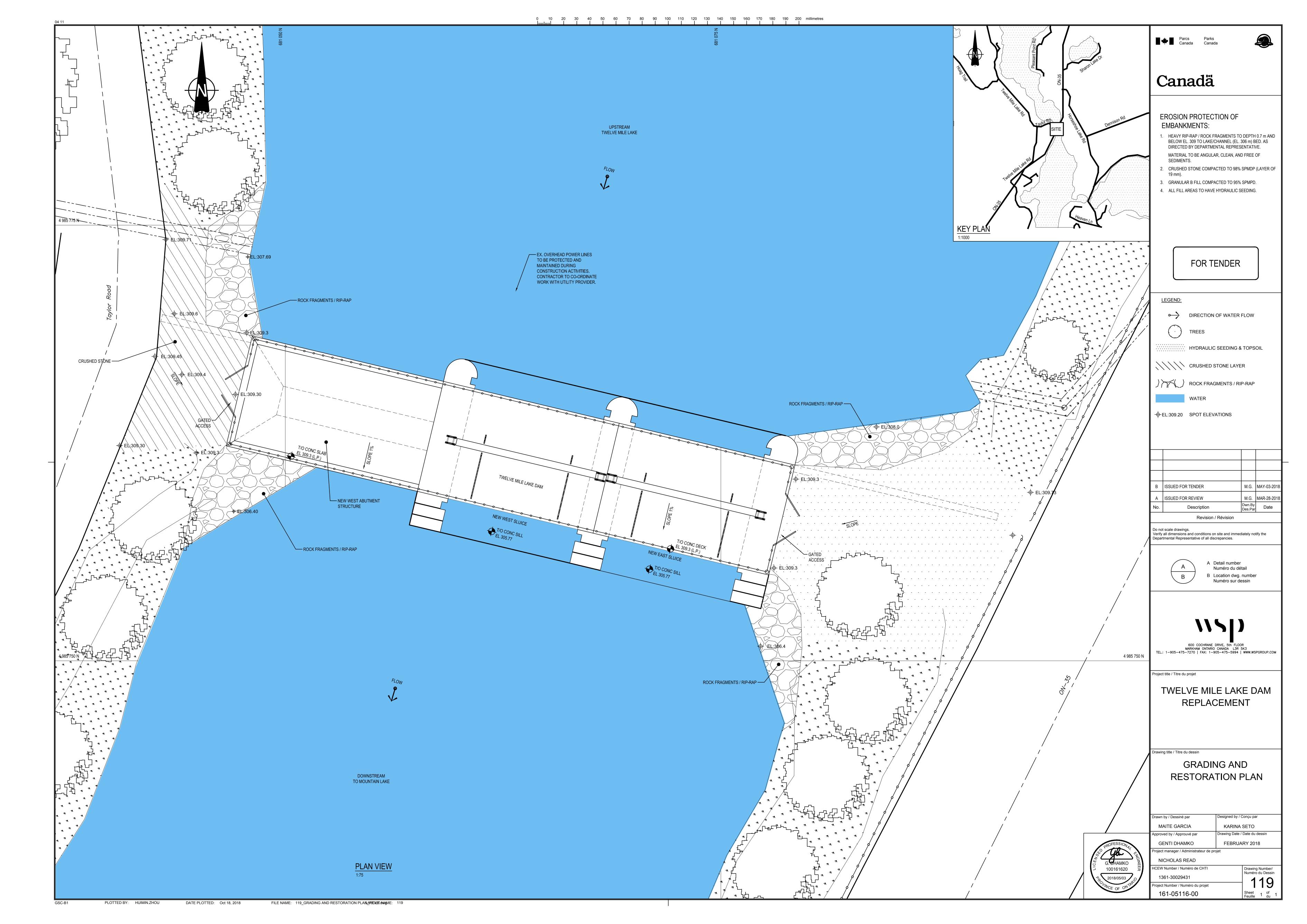
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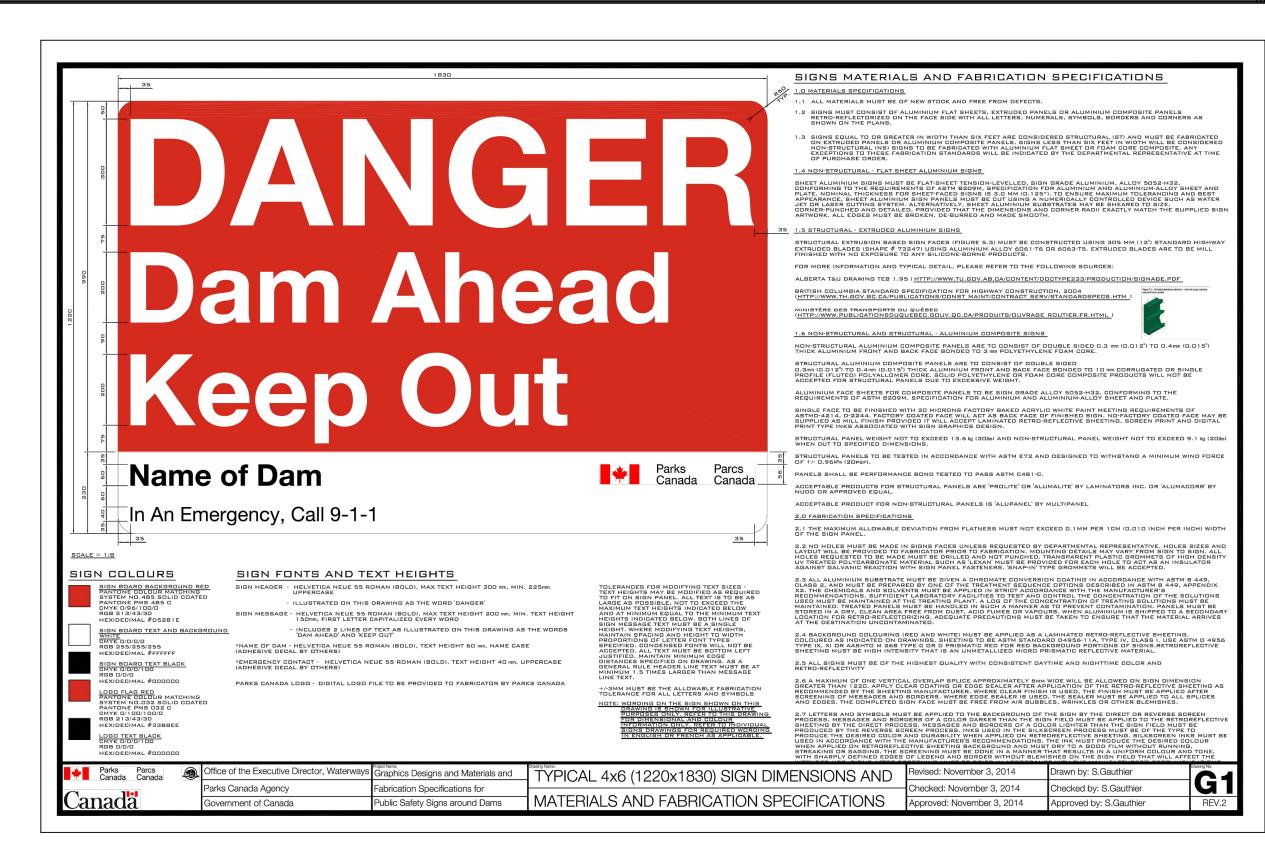


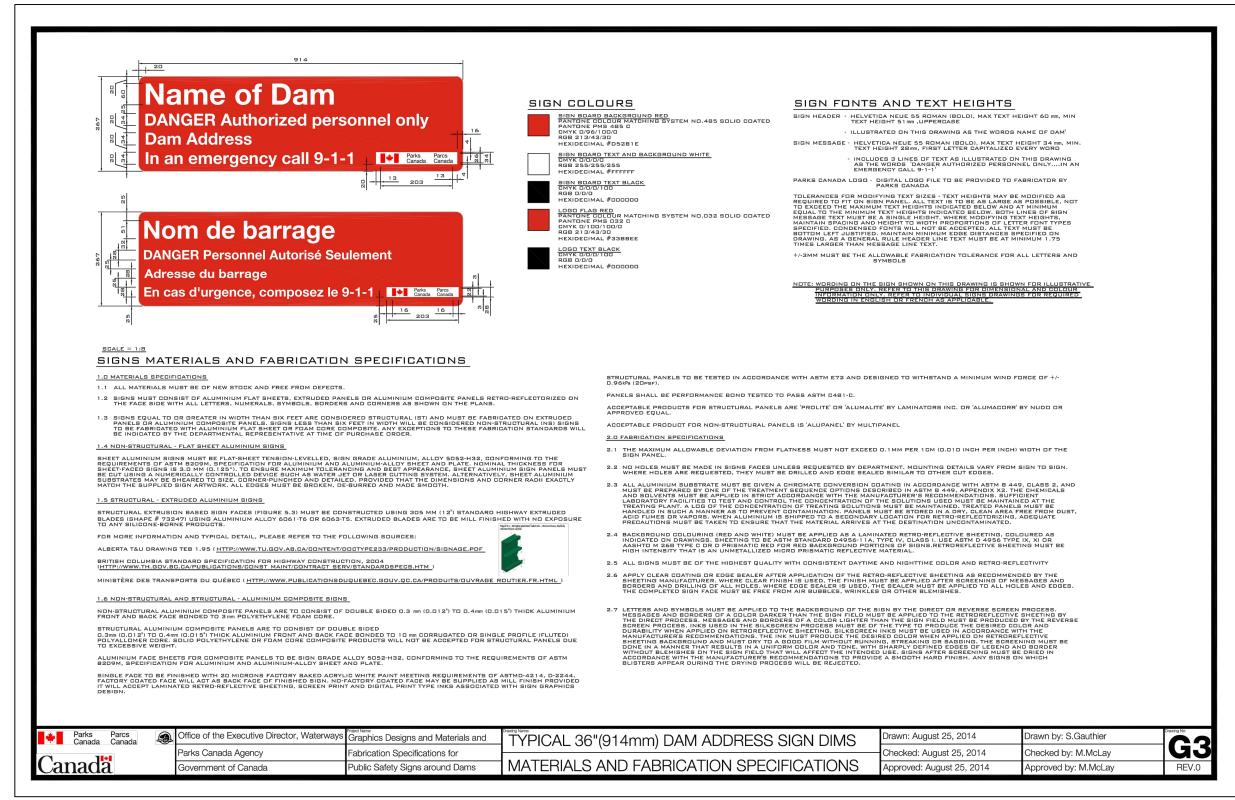


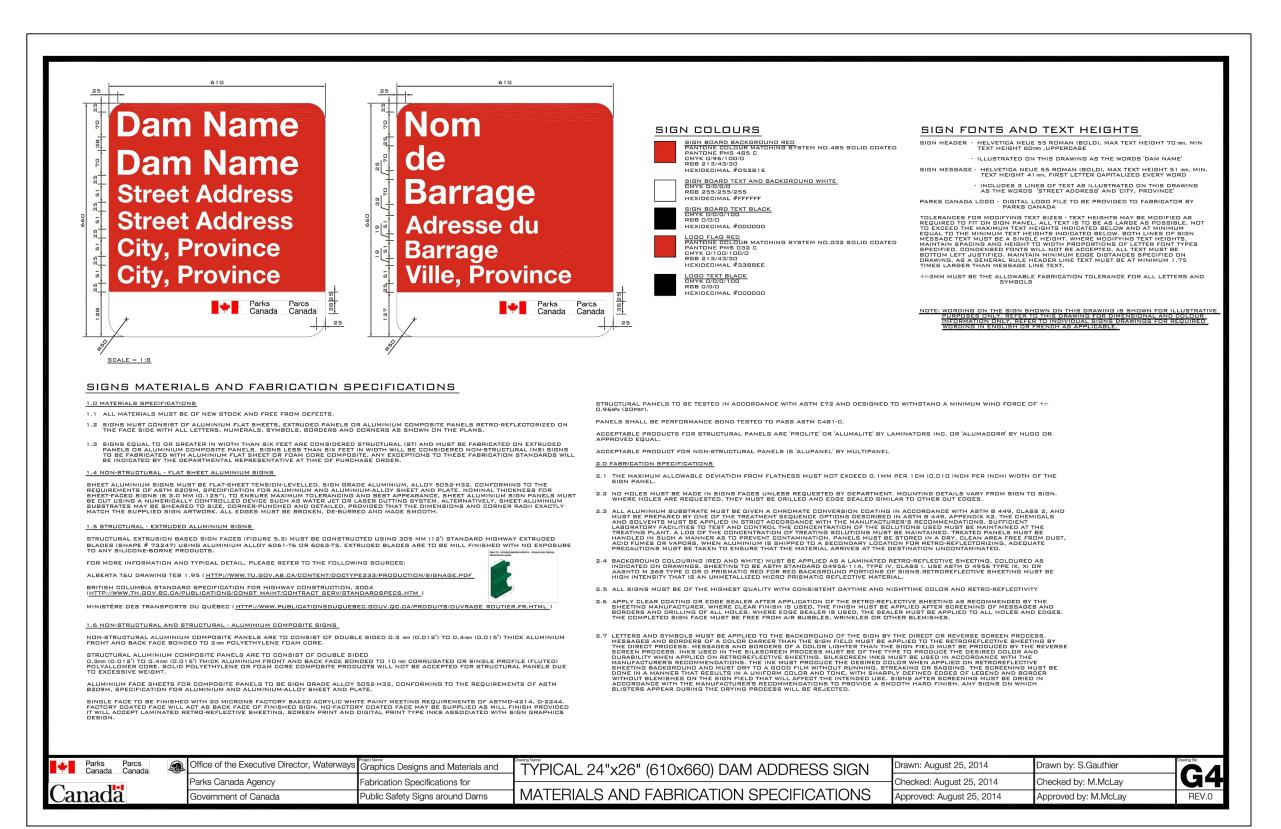
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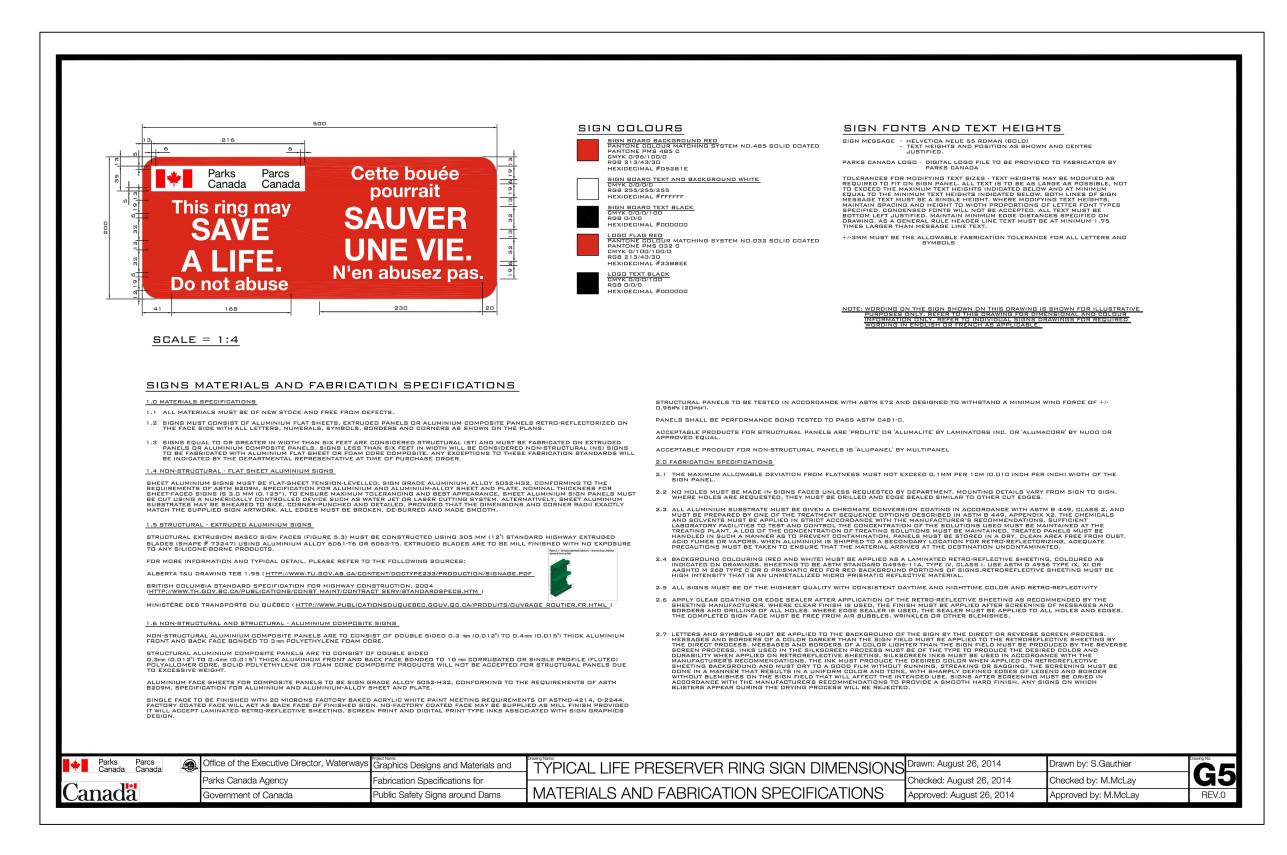


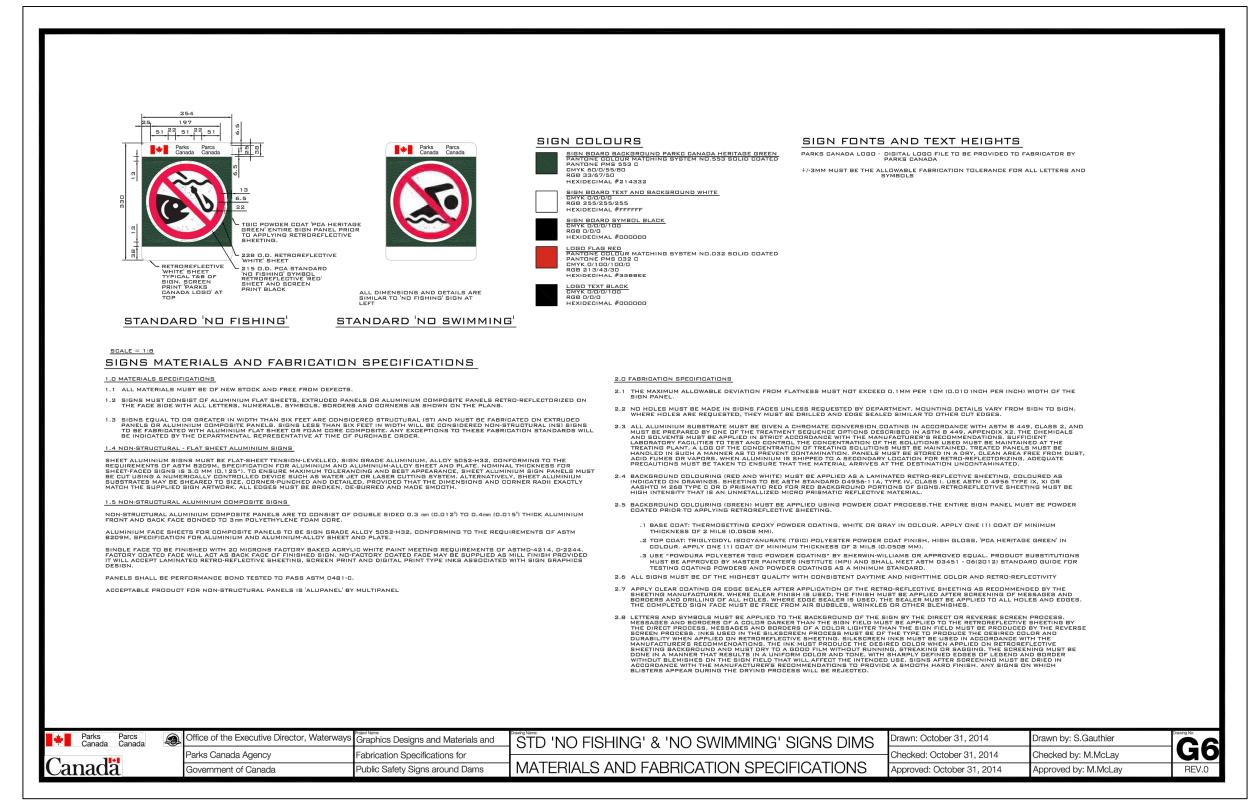


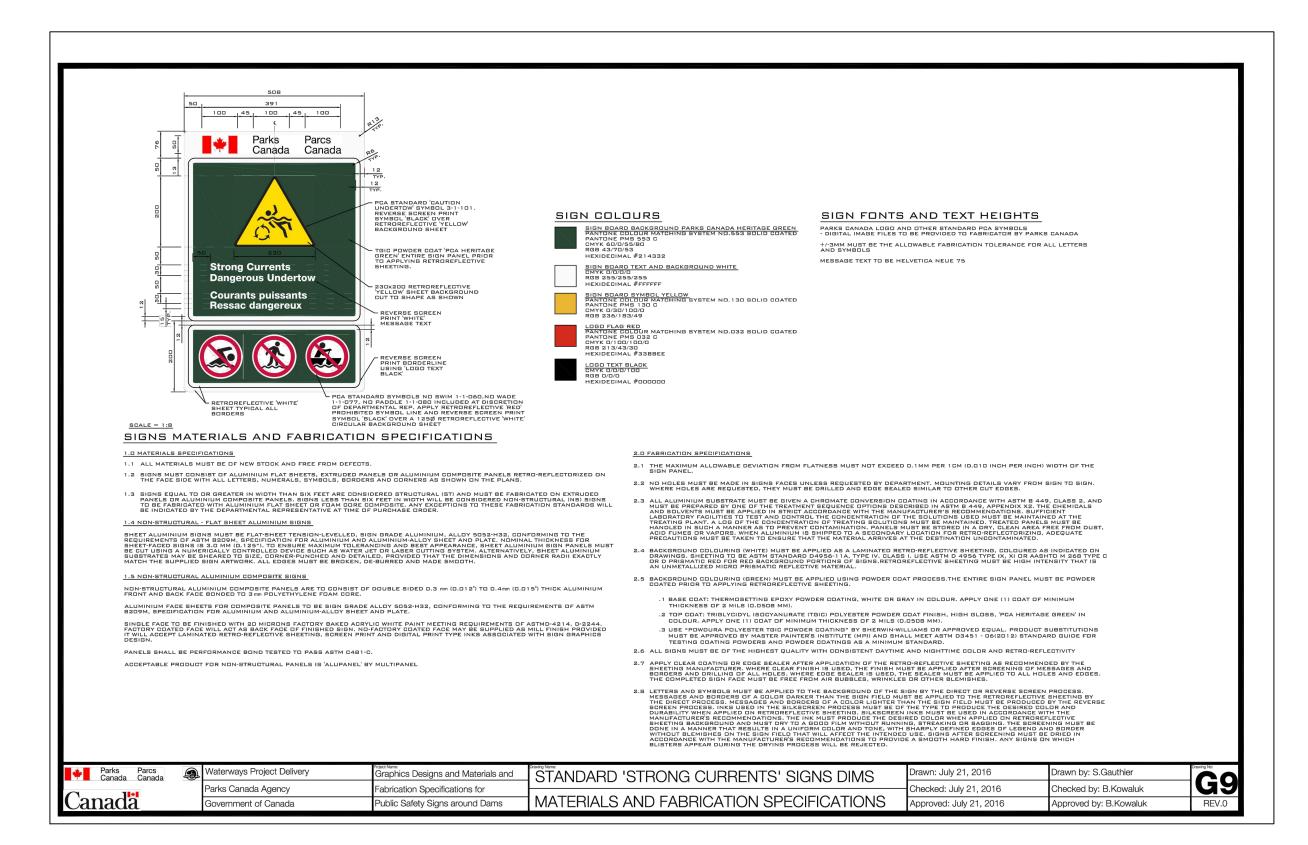


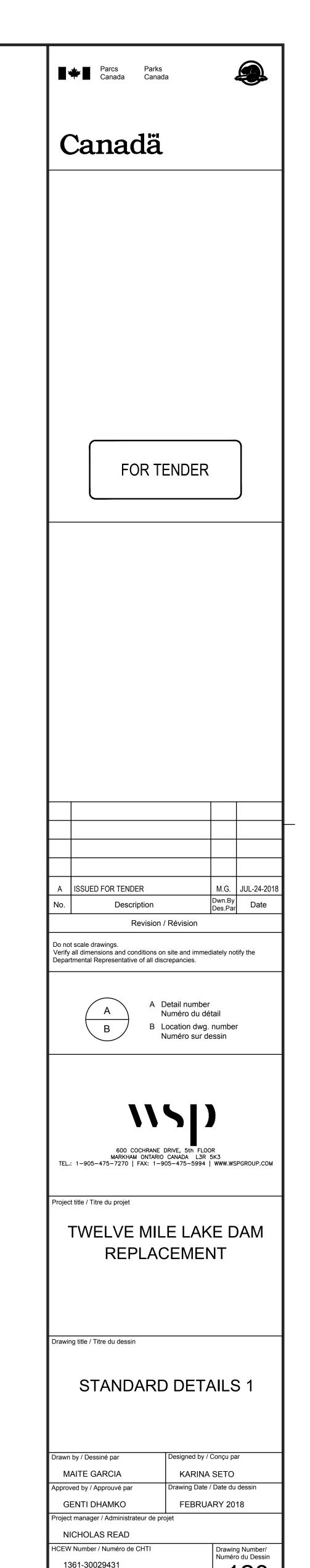




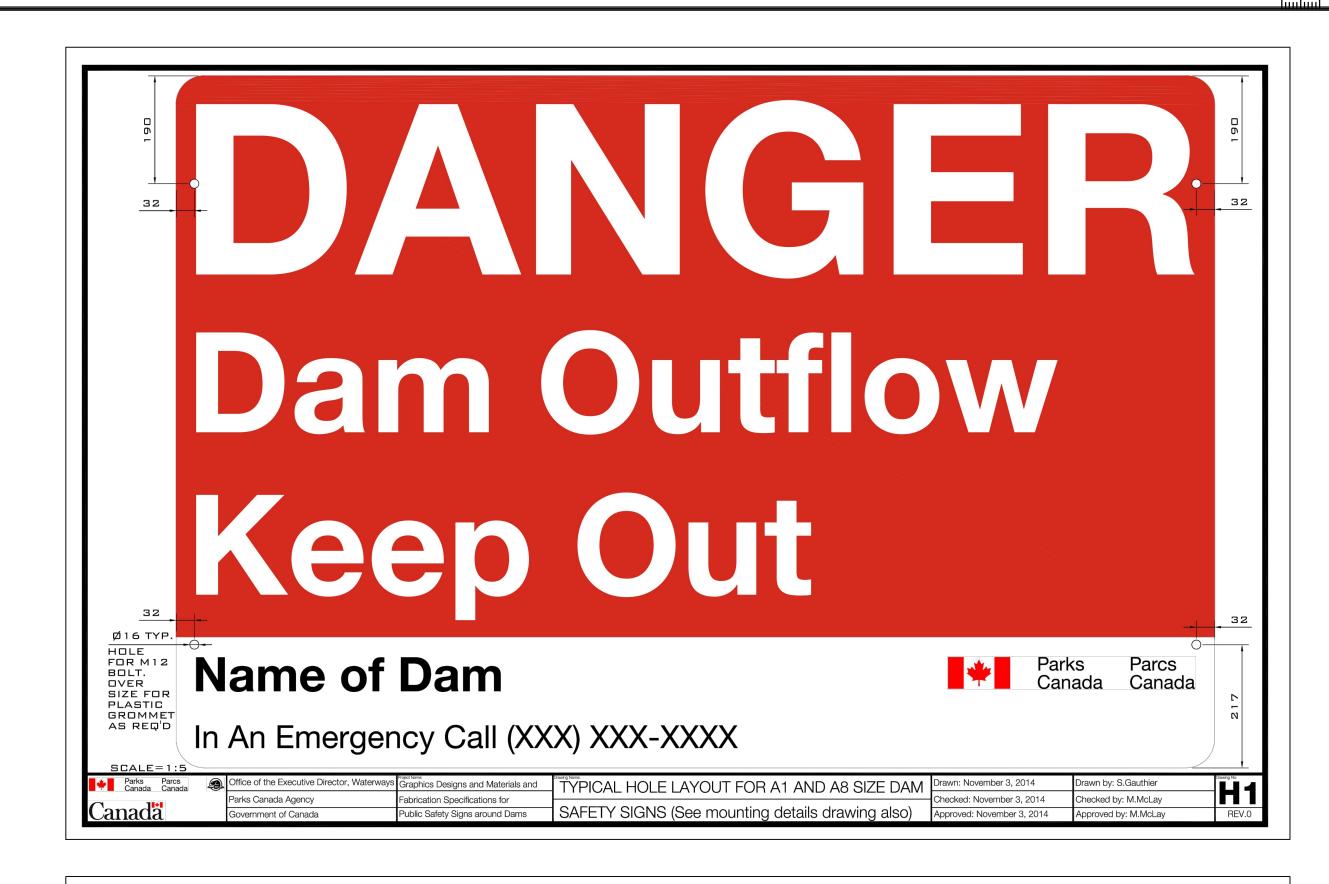






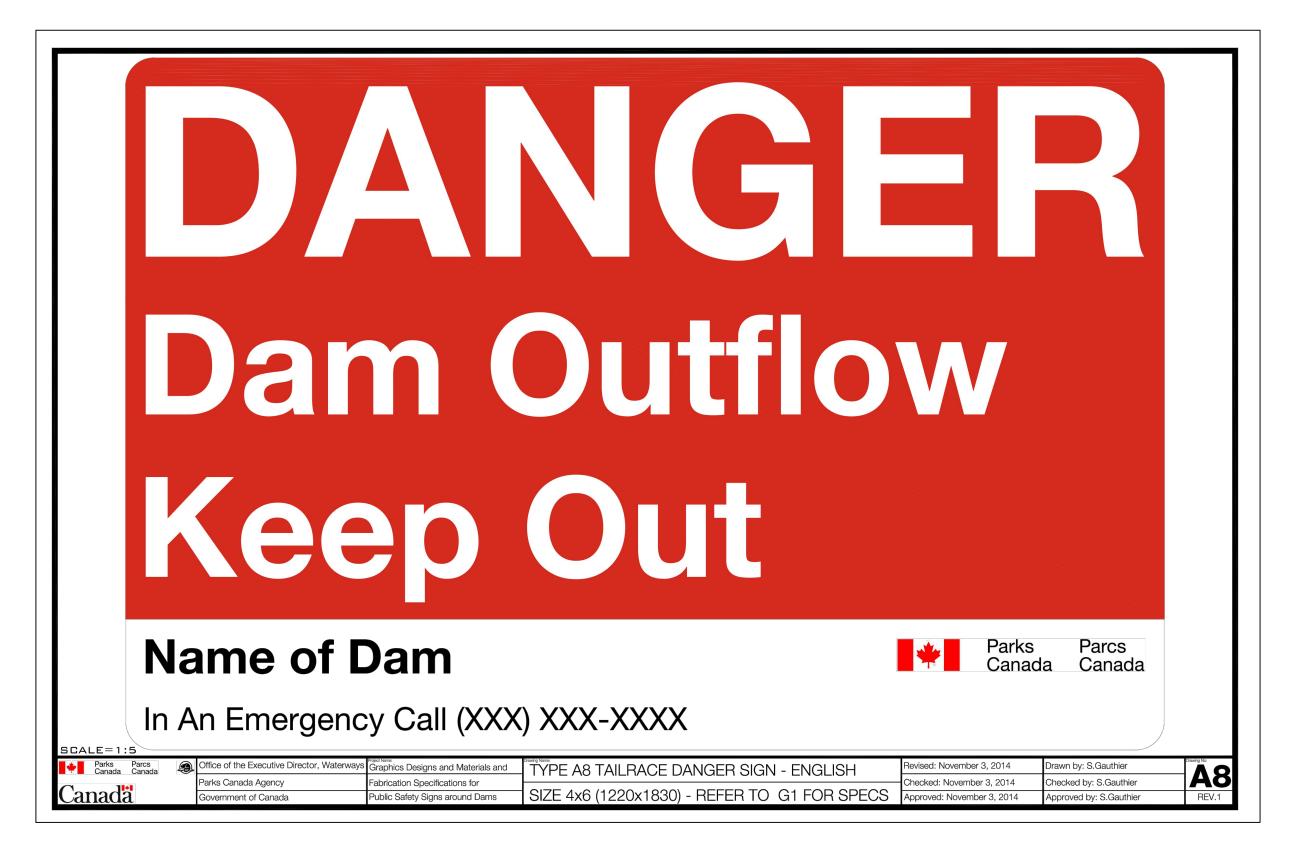


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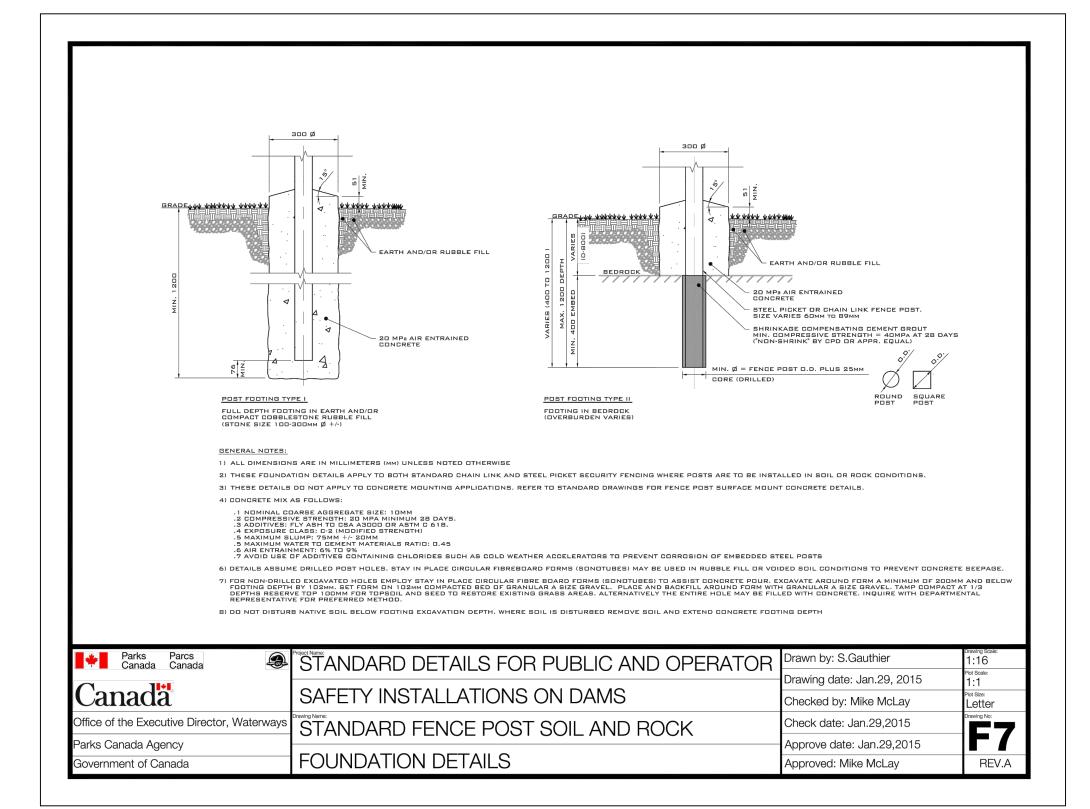


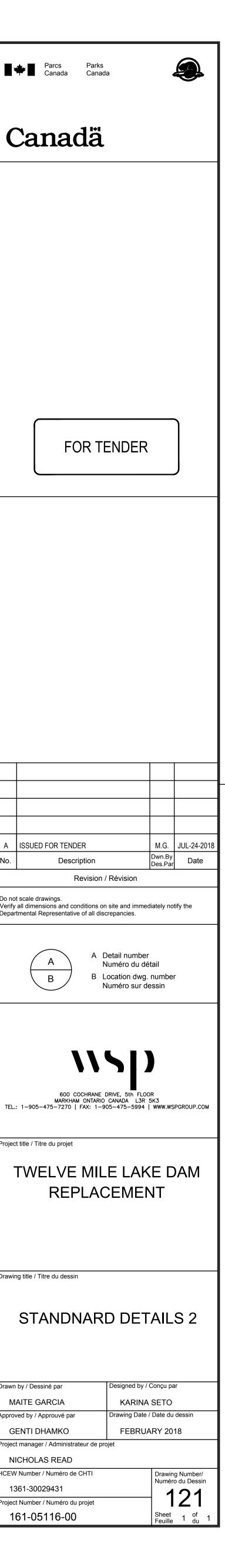


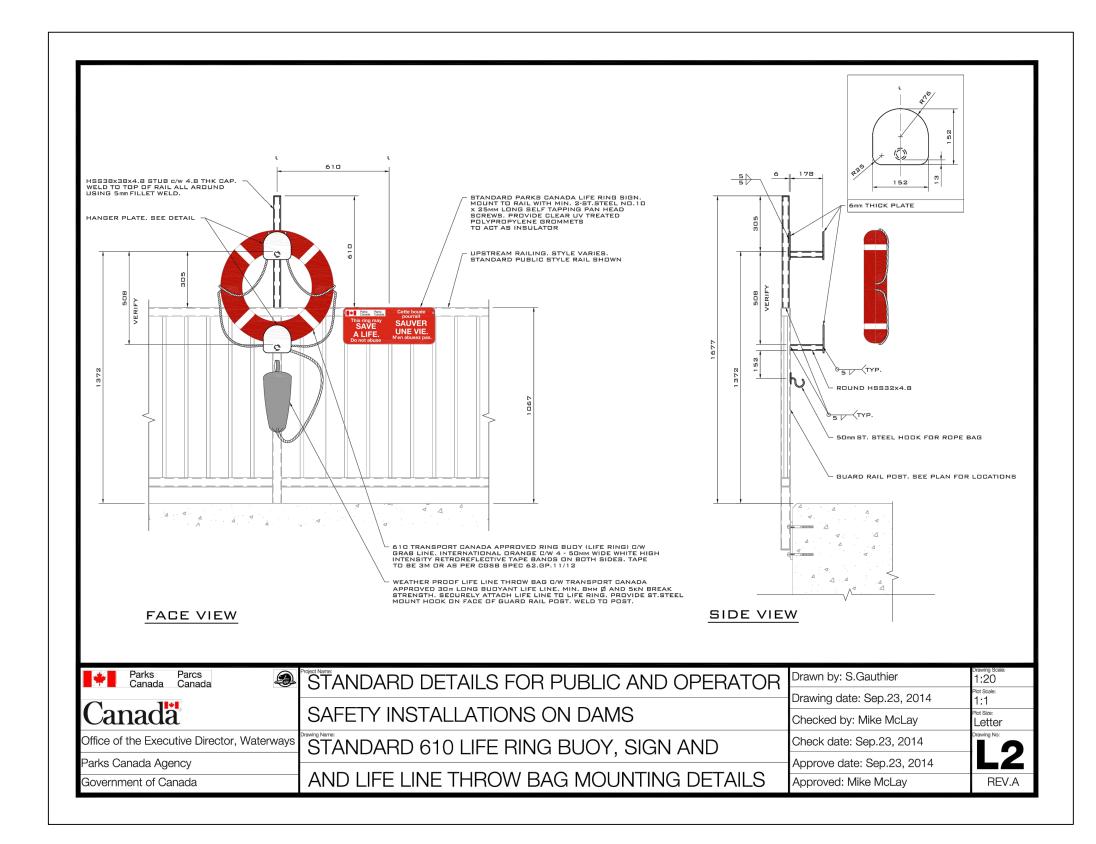


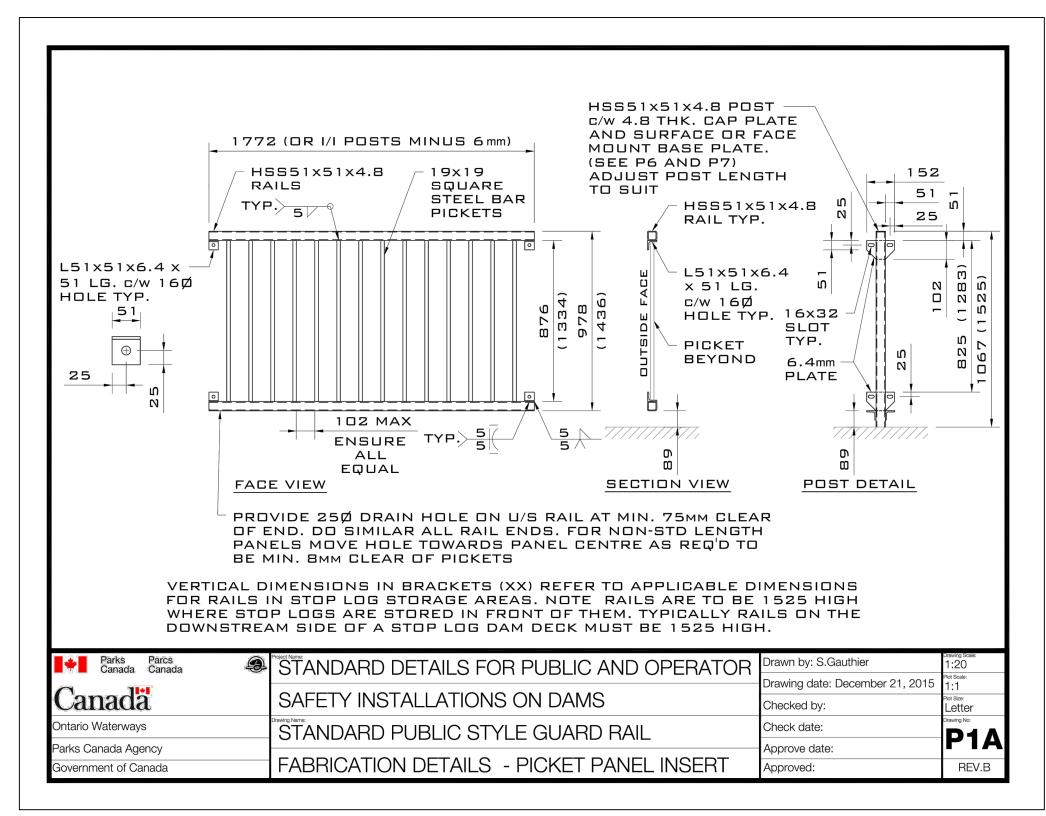


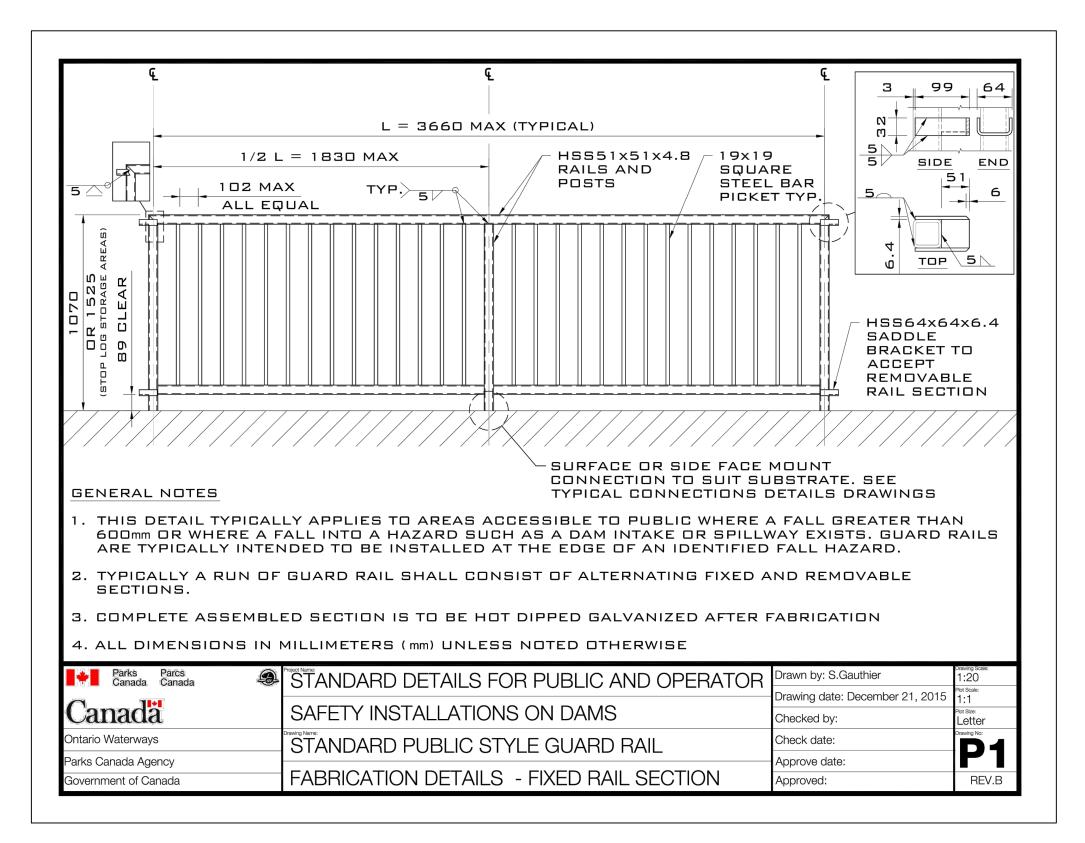


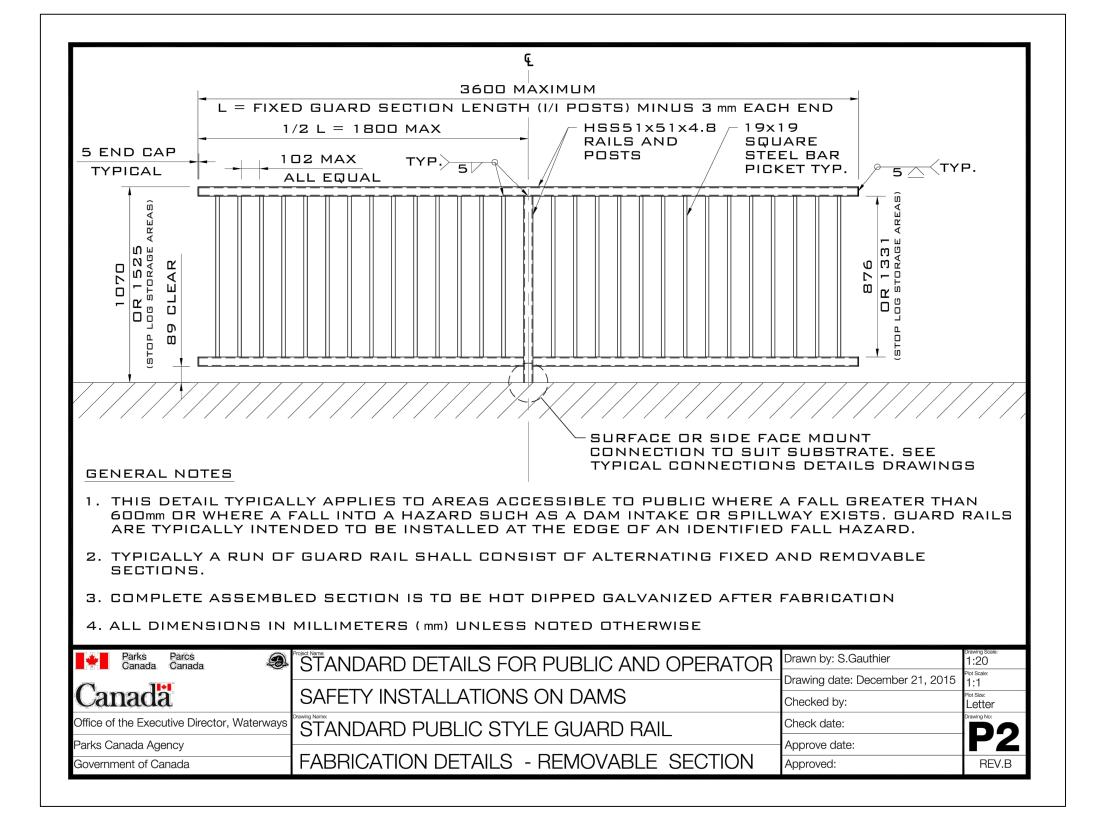


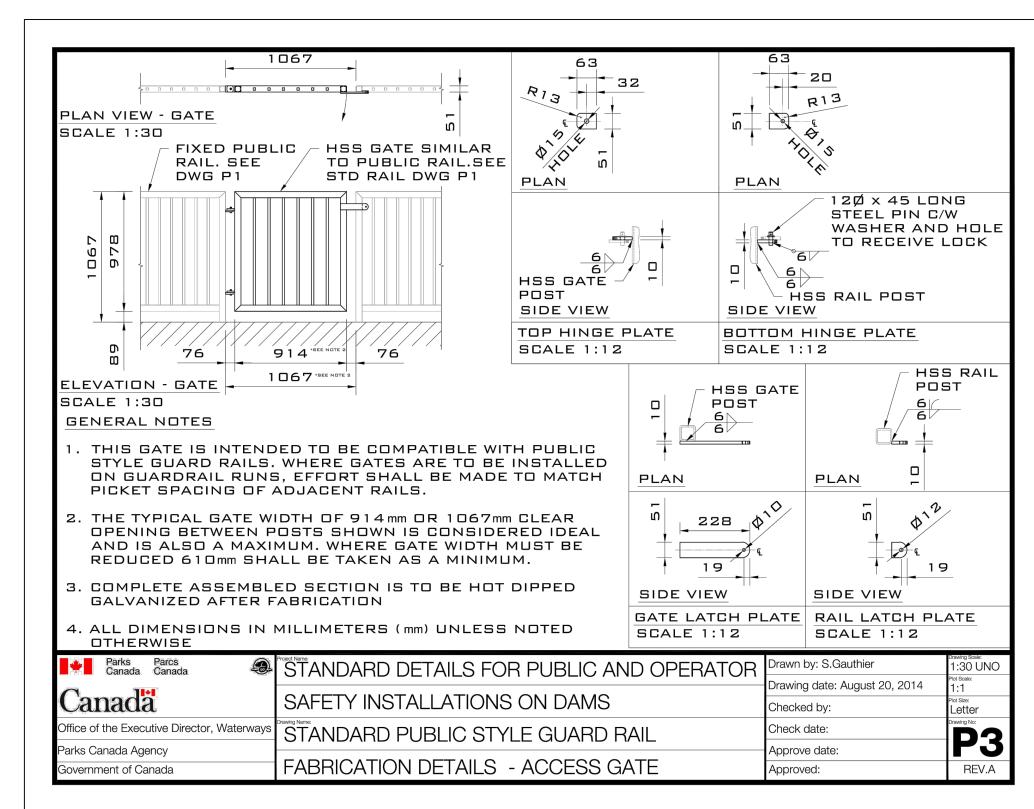


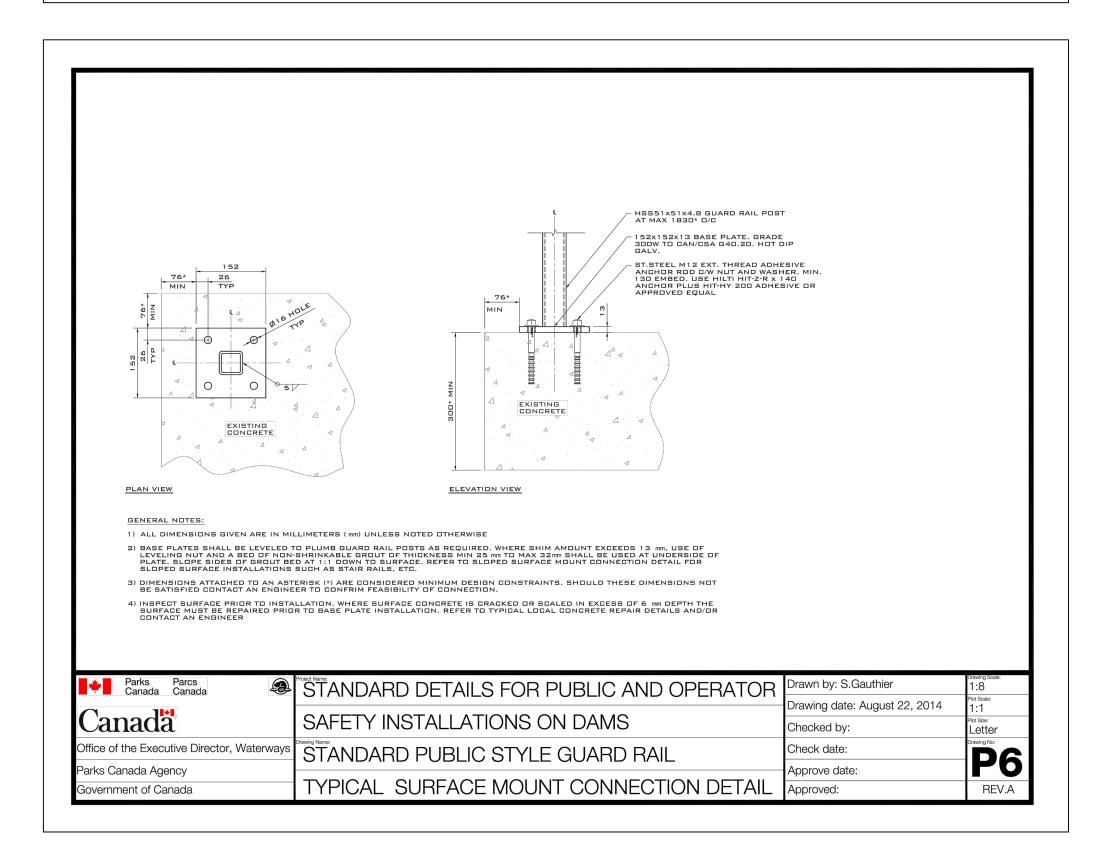


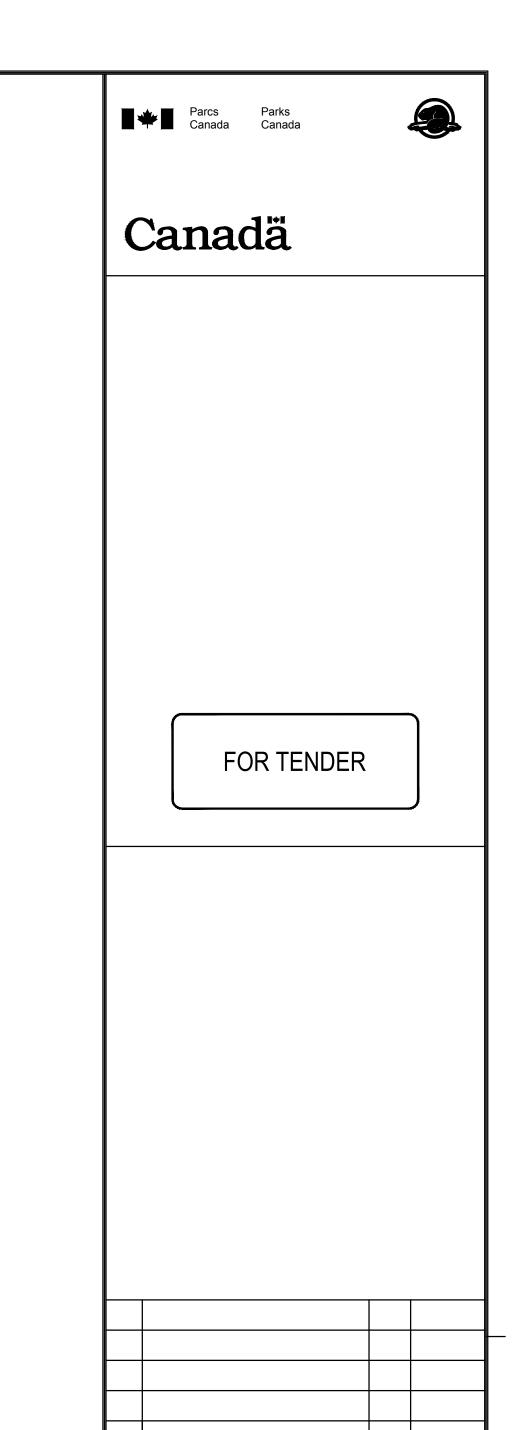






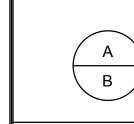






Α	ISSUED FOR TENDER	M.G.	JUL-24-2018
No.	Description	Dwn.By Des.Par	Date
Revision / Révision			

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A Detail number Numéro du détail B Location dwg. number Numéro sur dessin



Project title / Titre du projet

TWELVE MILE LAKE DAM REPLACEMENT

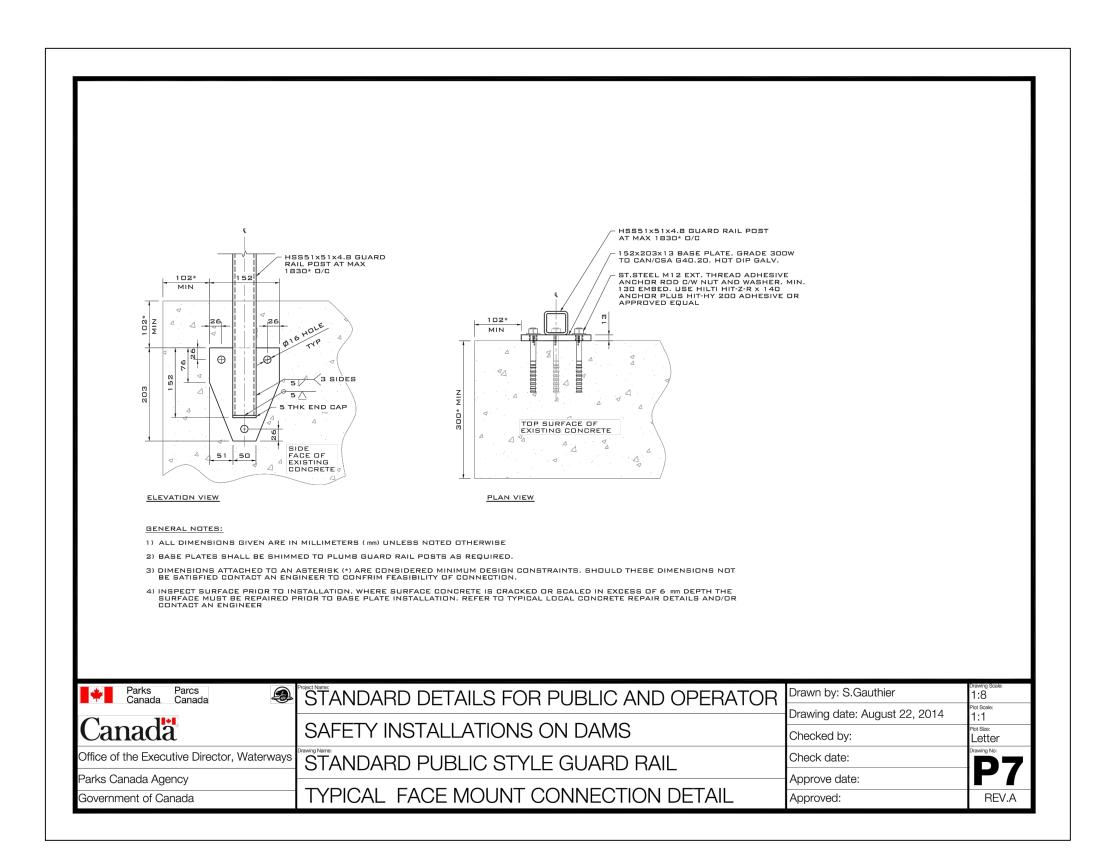
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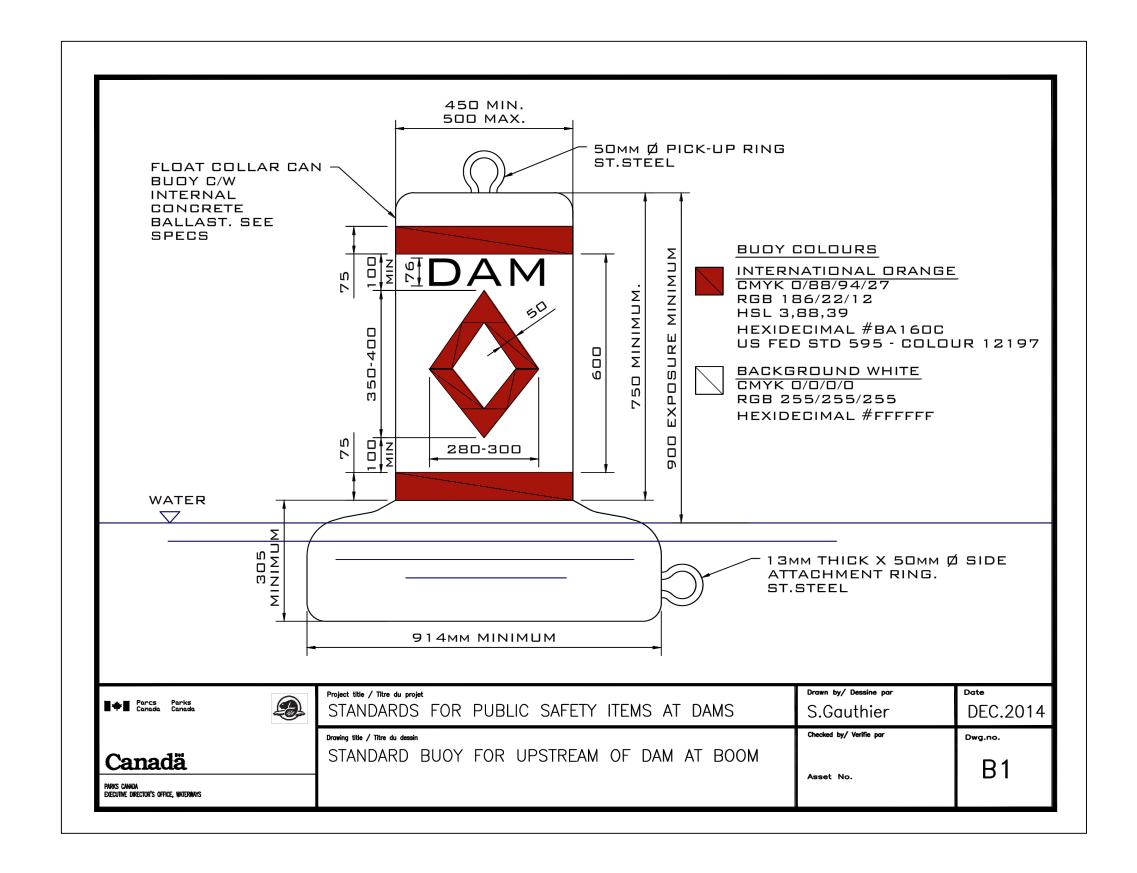
STANDARD DETAILS 3

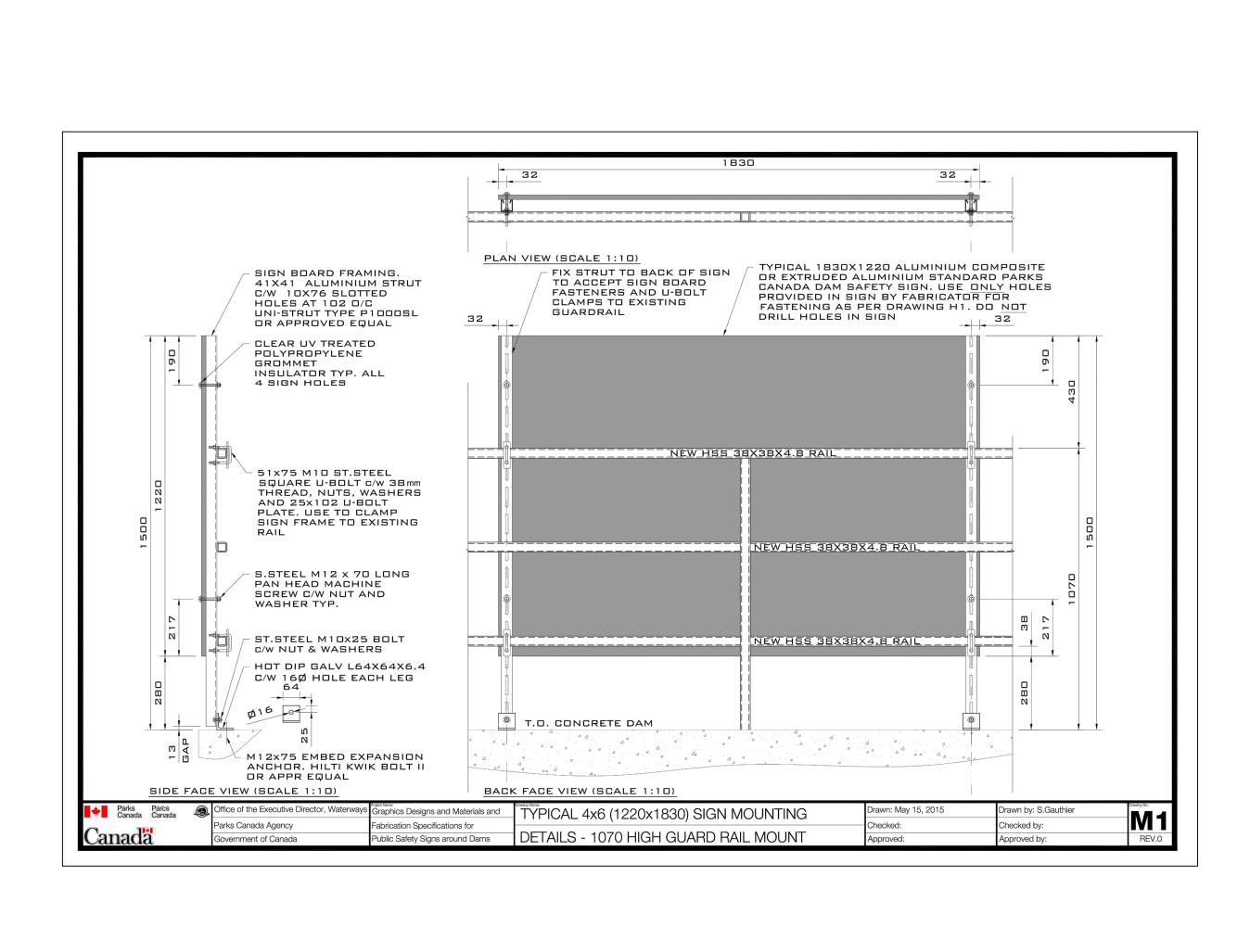
	Drawn by / Dessiné par	Designed by / Conçu par
	MAITE GARCIA	KARINA SETO
	Approved by / Approuvé par	Drawing Date / Date du dessin
	GENTI DHAMKO	FEBRUARY 2018
١	Project manager / Administrateur de projet	

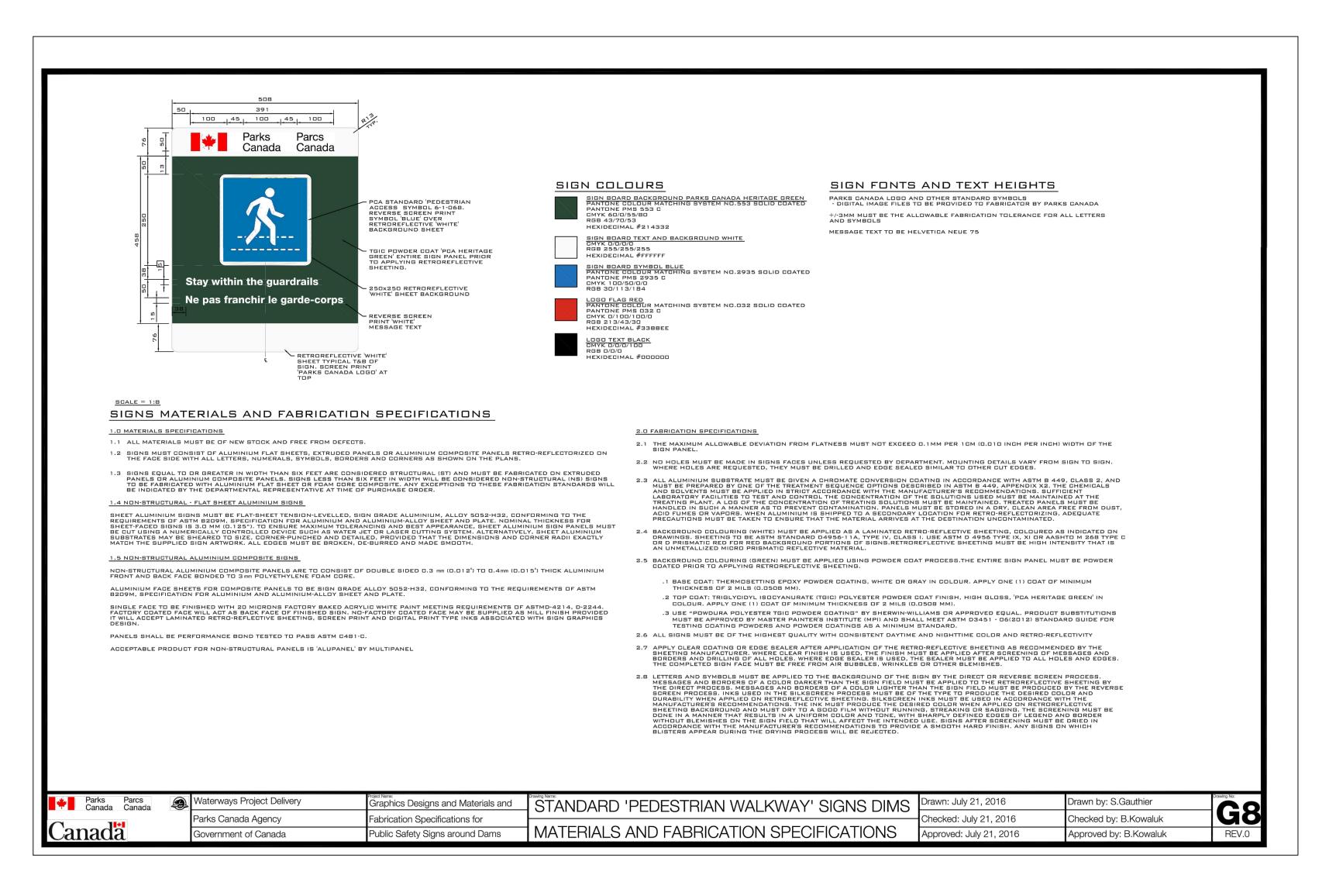
NICHOLAS READ

Drawing Number/ Numéro du Dessin HCEW Number / Numéro de CHTI 1361-30029431 Project Number / Numéro du projet 161-05116-00











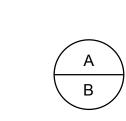


FOR TENDER

В	REVISED FOR TENDER	H.Z.	OCT-18-2018
A	ISSUED FOR TENDER	M.G.	JUL-24-2018
No.	Description	Dwn.By Des.Par	Date

Revision / Révision

Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.



A Detail number Numéro du détail B Location dwg. number Numéro sur dessin



Project title / Titre du projet

TWELVE MILE LAKE DAM REPLACEMENT

rawing title / Titre du dessin

STANDARD DETAILS 4

Drawn by / Dessiné par	Designed by / Conçu par	
MAITE GARCIA	KARINA SETO	
Approved by / Approuvé par	Drawing Date / Date du dessin	
GENTI DHAMKO FEBRUARY 2018		
Project manager / Administrateur de projet		

NICHOLAS READ

HCEW Number / Numéro de CHTI Drawing Number/ Numéro du Dessin 1361-30029431 123 Project Number / Numéro du projet 161-05116-00

DATE PLOTTED: Oct 18, 2018 FILE NAME: 123_STANDARD DETAILS4_REVA.dwg LAYOUT NAME: 123