



Transport Canada  
Marine

Transports Canada  
Maritime

Navigation Protection Program  
100 Front Street South  
Sarnia, ON N7T 2M4

Your file Votre référence

Our file Notre référence  
8200-07-6495

**REGISTERED MAIL**

**JUN 25 2014**

Swift River Energy Ltd.  
2300 Yonge Street, Suite 801  
P.O. Box 2300  
Toronto, ON M5P 1E4

Attention: Frank Belerique

**RE: Notice to the Minister under the *Navigation Protection Act* for review of the alterations to the existing Dam by converting to a Hydro-electric Generating Facility, located on Lake Muskoka, Bala North Dam, Lot 33, Concession 7, Village of Bala, Township of Muskoka, District Municipality of Muskoka, in the Province of Ontario**

Our assessment of your work has determined that it is not likely to substantially interfere with navigation.

Therefore your work is permitted under section 9(1) of the *Navigation Protection Act* and you may proceed in accordance with the following terms and conditions:

The Owner must provide a Confirmation of Compliance in writing to the Ontario Region NPP Office upon completion of construction indicating that the work has been built according to the plans, and that the imposed terms and conditions and relevant legislative requirements have been met. The Confirmation of Compliance letter is also to include photographs of the site clearly showing, the installed upstream and downstream safety booms and the portage route and associated signage.

Your attention is also drawn to the Navigable Waters Works Regulations sections 5 and 6, which also apply to all construction in Navigable Waters. These sections specifically state that:

1. No person shall permit any tools, equipment, vehicles, temporary structures or parts thereof used or maintained for the purpose of building or placing a work in a navigable water to remain in such water after the completion of the project.
2. Where a work or a portion of a work that is being constructed or maintained in a navigable water causes debris or other material to accumulate on the bed or on the surface of such water, the owner of that work or portion of that work shall cause the debris or other material to be removed to the satisfaction of the Minister.

Please note that permission relates only to the effect of your work on navigation under the NPA. It is the owner's responsibility to comply with any other applicable laws and regulations.

**Should you have any questions, please do not hesitate to contact our office in Sarnia by phone at 519-383-1863, by fax at 519-383-1989 or by e-mail at [NPPONT-PPNONT@tc.gc.ca](mailto:NPPONT-PPNONT@tc.gc.ca).**

Respectfully,

Kelly Thompson  
Officer, Navigation Protection Program  
Programs  
Transport Canada  
Ontario Region

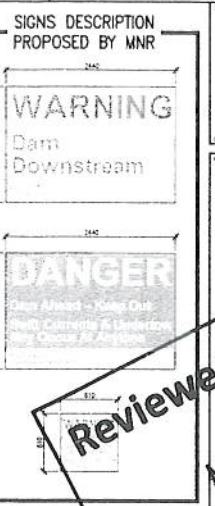
KT/kg

cc: Karen McGhee, McGhee-Kriszan Engineering Ltd.



**NWPA-LPEN**  
 JUN 25 2014  
**TRANSPORT**

**Reviewed/Examiné**  
 MAY 21 2014  
 Page 1 of 2  
 By/par [Signature]  
 Navigation Protection Program/  
 Programme de Protection de Navigation



**Reviewed/Examiné**

MAY 21 2014

Page 1 of 5

By/par: [Signature]

Navigation Protection Program / Programme de Protection de Navigation



RECEIVED BY

MAY 16 2014

NAVIGATION PROTECTION PROGRAM

**WSP ENERGY**

PROJ: 131-13550-NWPA-01

DATE: 2014-05-07

SCALE: 1:400

FILE: 131-13550-NWPA-01

<p>SWP</p> <p>— DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED</p> <p>— ELEVATION VALUES ARE IN METERS</p> <p>— NATIONAL DATUM: NORTH AMERICA DATUM 1983 (NAD 83)</p> <p>— HORIZONTAL SCALE: 1:400 (AS SHOWN)</p> <p>— VERTICAL SCALE: 1:400 (AS SHOWN)</p> <p>— FOR INFORMATION AND DOCUMENTATION PURPOSES, MANAGEMENT USE ONLY</p> <p>— ATTACHED SUPPLEMENTARY INFORMATION</p> <p>— DRAWING EXCLUDED FROM THE DRAWING SET</p> <p>— ATTACHED SUPPLEMENTARY INFORMATION</p>	
<p>SWP NO. 131-13550-NWPA-01</p> <p>DATE: 2014-05-07</p> <p>SCALE: 1:400</p> <p>FILE: 131-13550-NWPA-01</p>	<p>DATE: 2014-05-07</p> <p>SCALE: 1:400</p> <p>FILE: 131-13550-NWPA-01</p>

NORTH BALA  
SMALL HYDRO PROJECT

EXISTING CONDITIONS  
AND PROPOSED LAYOUT

GENERAL PLAN VIEW

SCALE: 1:400

FILE: 131-13550-NWPA-01

DATE: 2014-05-07

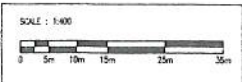
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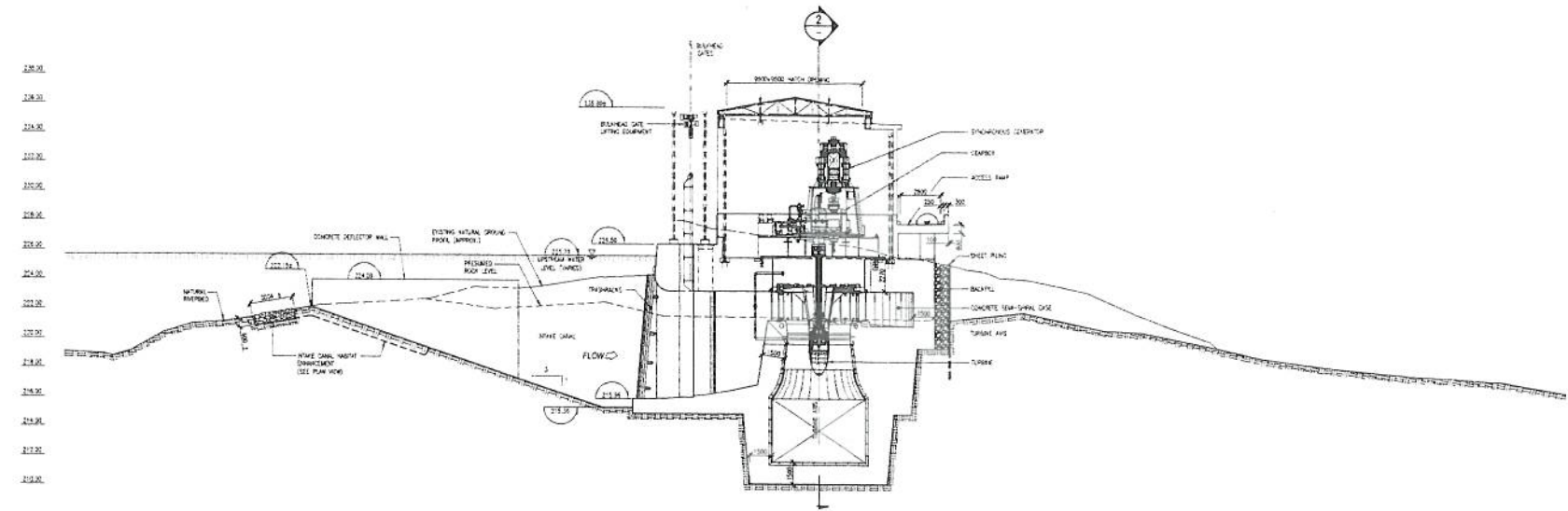
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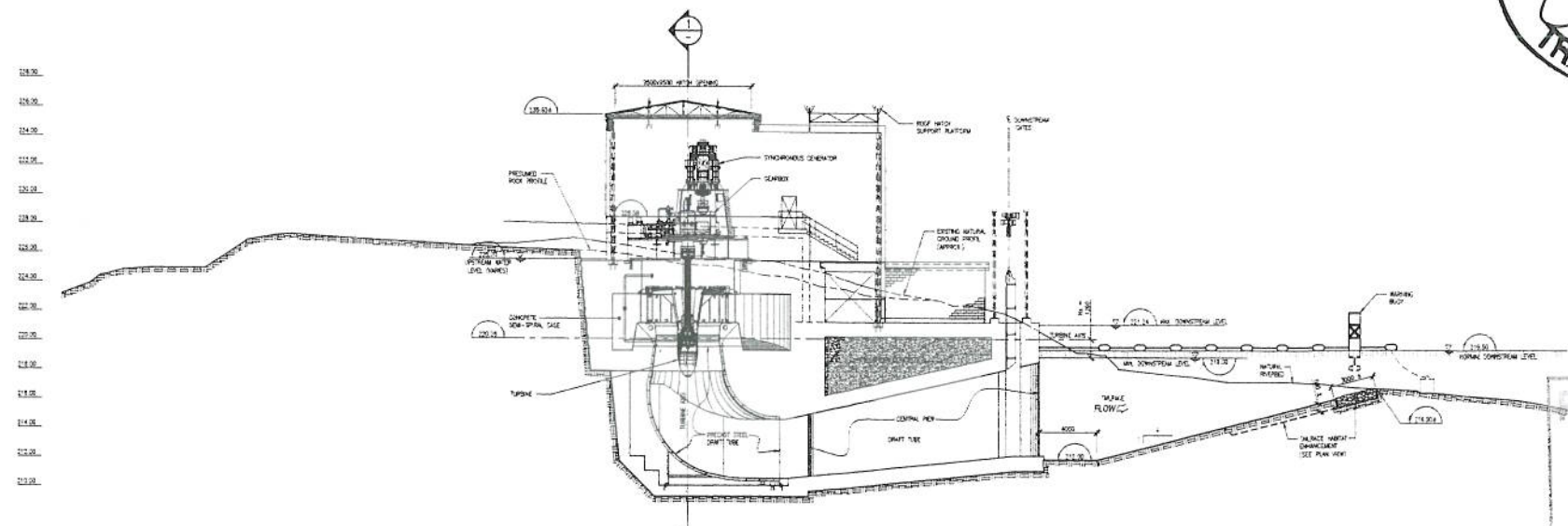


SWIFT RIVER ENERGY LIMITED

VERTICAL SCALE: 1" = 10'-0" (AS SHOWN)  
 HORIZONTAL SCALE: 1" = 20'-0" (AS SHOWN)  
 ELEVATIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED



INTAKE CANAL PROFILE 1  
1:50



TAILRACE CANAL PROFILE 2  
1:50

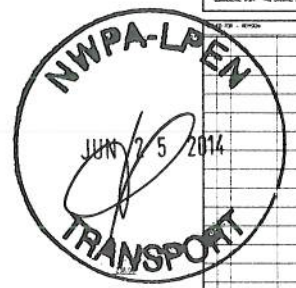
**Reviewed/Examiné**

MAY 21 2014

Page 3 of 8

By par: [Signature]

Navigation Protection Program / Programme de Protection de Navigation



NORTH BALA SMALL HYDRO PROJECT



ENERGY

DESIGNED BY: S. BOURQUE, P. ENG.  
 DRAWN BY: M. CLOUTIER  
 CHECKED BY: S. BOURQUE, P. ENG.

PROPOSED  
 MAY 15 2014  
 NAVIGABLE CANALS

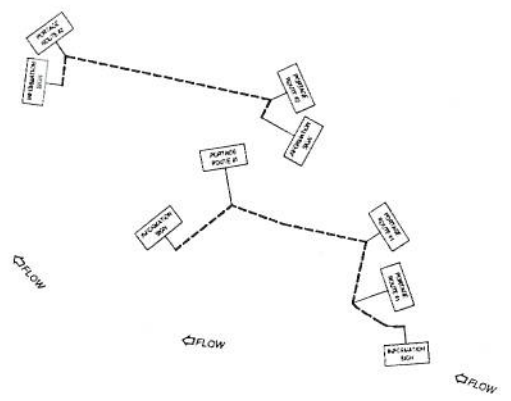
INTAKE AND TAILRACE CANAL SECTIONS

131-13550-NWPA-02

N.W.P.A. APPLICATION



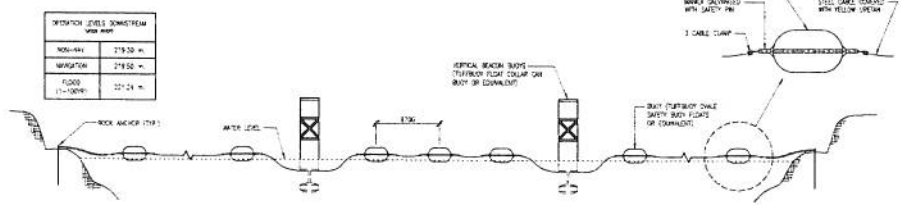
SWR 101  
 1- DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIC OTHERWISE  
 2- DIMENSIONS UNLESS NOTED OTHERWISE  
 3- DIMENSIONS SHOWN WITH DIMENSION LINES SHALL BE USED AND ALL DIMENSIONS SHALL BE MEASURED FROM THE CENTERLINE OF THE STRUCTURE UNLESS OTHERWISE NOTED  
 4- DIMENSIONS SHOWN WITH DIMENSION LINES SHALL BE USED AND ALL DIMENSIONS SHALL BE MEASURED FROM THE CENTERLINE OF THE STRUCTURE UNLESS OTHERWISE NOTED  
 5- DIMENSIONS SHOWN WITH DIMENSION LINES SHALL BE USED AND ALL DIMENSIONS SHALL BE MEASURED FROM THE CENTERLINE OF THE STRUCTURE UNLESS OTHERWISE NOTED



PORTAGE ROUTES LOCATION - PLAN VIEW  
 1:2000

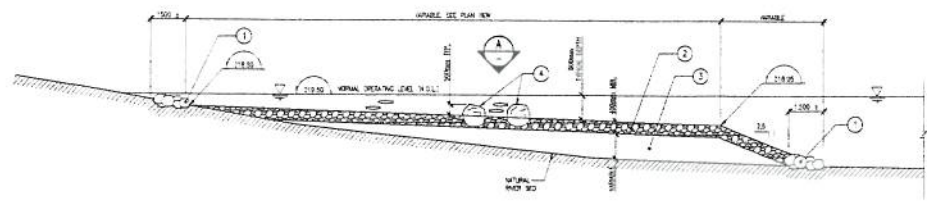
(PICTURE FROM BMD IMAGES, N.T.S.)

**Reviewed/Examiné**  
 MAY 21 2014  
 By/par [Signature]  
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 Programme de Protection de Navigation



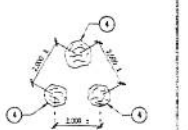
TYPICAL SAFETY BOOM PROFILE  
 N.T.S.

**GENERAL NOTES :**  
 1- DOWNSTREAM SAFETY BOOMS WILL BE REMOVED DURING NON-NAVIGATION PERIODS.  
 2- NAVIGATION WORKS IS ESTABLISHED FROM UP TO DOWNSTREAM OF THE BOOM AND SAFETY BOOM MUST BE RECALLED AND POSITIVE DURING THE PERIOD.  
 3- FINAL DESIGN PRODUCT MUST BE REVIEWED AND APPROVED BY ENGINEER.  
 4- BOOM ANCHORS DEPTH MUST BE VALUED BY BOOM SUPPLIER ENGINEER OR SITE AND MUST BE SUFFICIENT TO WITHSTAND SAFETY BOOM LOAD.  
 5- THE SAFETY BOOM MUST BE YELLOW IN COLOR AND SAFETY THE NAVIGABLE WATERS PROTECTION ACT REQUIREMENTS.



HABITAT ENHANCEMENT - TYPICAL SECTION  
 1:100

- LEGEND :**
- 1 SELECTED BLOCKS PLACED 100mm x 100mm x 100mm
  - 2 SUBSTRATE FOR AQUATIC HABITAT - LOWER STONES 100mm x 100mm x 100mm
  - 3 FOUNDATION ROCKETS PLACED AND CONNECTED TO HOLE POSITION OF THE STRUCTURE # 1 - 100mm x 100mm x 100mm USED AS UNDER LAYS
  - 4 SPRINKLE SELECTED BLOCKS MUST EXCEED SUBSTRATE OF 100mm x 100mm x 100mm used # 100mm x 100mm x 100mm



DETAIL - PLAN VIEW  
 1:100

**NWPA-LPEN**  
 JUN 5 2014  
**TRANSPORT**

NORTH BALA  
 SMALL HYDRO PROJECT

**WSP**

ENERGY

DESIGNED BY:  
 S. BISSON, M. DESJARDIS, P. ENG.  
 DRAWN BY:  
 M. CLOUTIER  
 CHECKED BY:  
 S. BOURGEOIS, P. ENG.

PORTAGE TRAILS,  
 SAFETY BOOM AND HABITAT  
 TYPICAL DETAILS

131-13550-NWPA-03

N.W.P.A. APPLICATION  
 2014-03-07

A 0

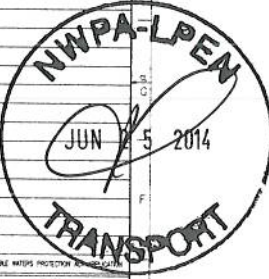
**Reviewed/Examiné**

MAY 21 2014

Page 3 of 8

By/par [Signature]

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Programme de Protection de Navigation



NORTH BALA SMALL HYDRO PROJECT



ENERGY

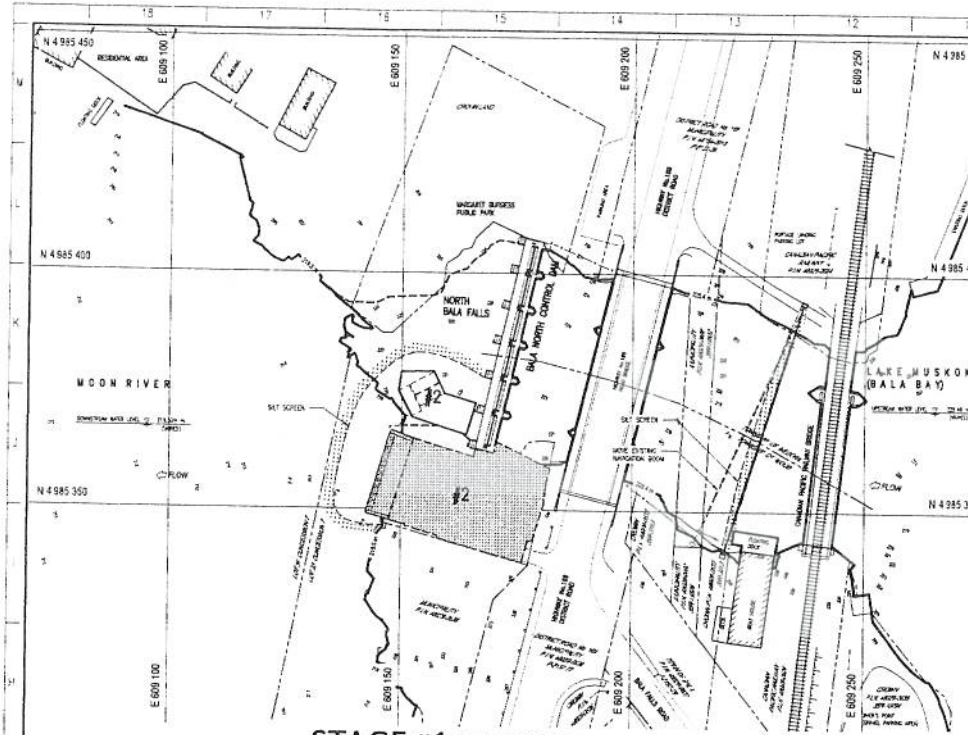
DESIGNED BY:  
S. BRIDSON, M. DESLITES, P. ENG.

DRAWN BY:  
S. BRIDSON, M. CLOUTIER, TECH.

CHECKED BY:  
S. BRIDSON, P. ENG.

RECEIVED BY  
MAY 15 2014  
CONSTRUCTION STAGES  
PLAN VIEWS (1/3)

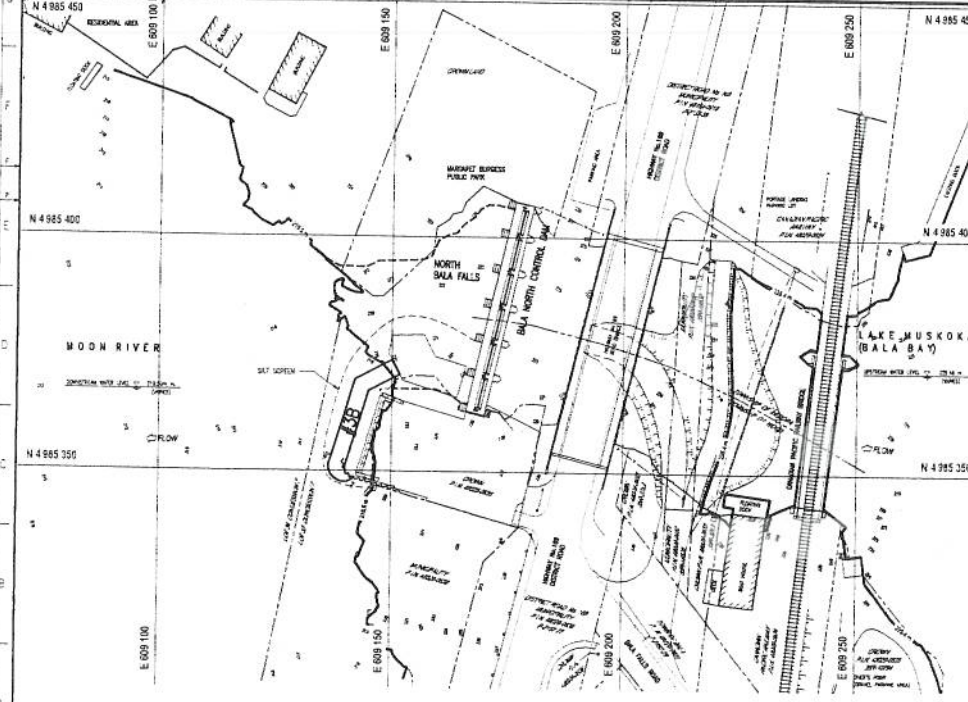
131-13550-NWPA-04



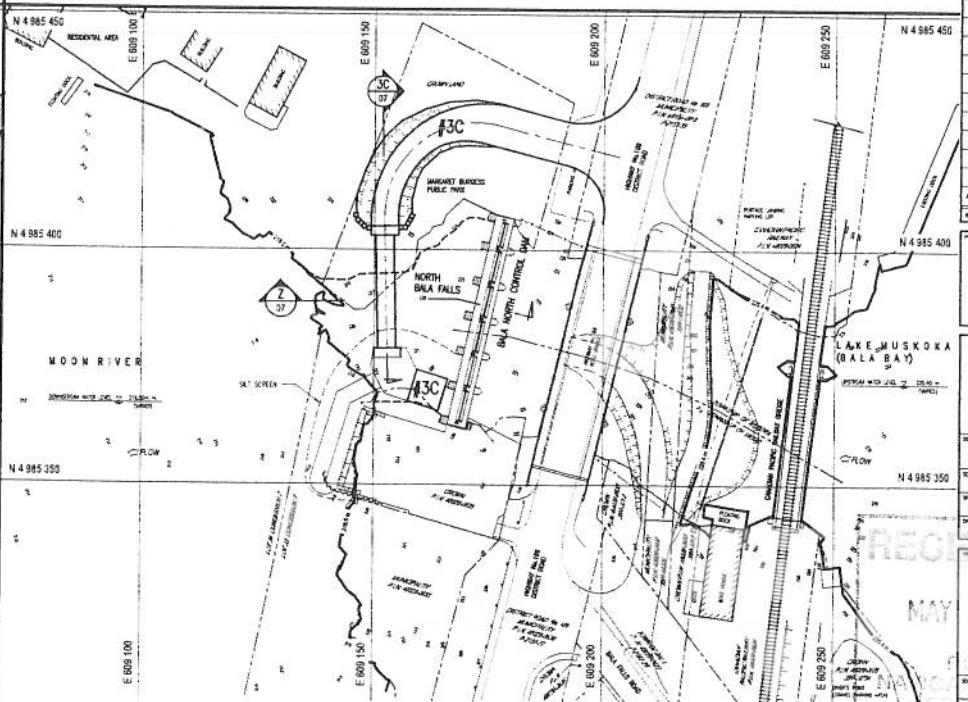
**STAGE #1** SITE PREPARATION  
**STAGE #2** POWERHOUSE EXCAVATION UP TO EL. 220.50m ± AND TOWER CRANE PAD BACKFILLING



**STAGE #3A**  
UPSTREAM COFFERDAM AND RAMP CONSTRUCTION UP TO EL. 226.25 m ±



**STAGE #3B**  
DOWNSTREAM COFFERDAM CONSTRUCTION UP TO EL. 221.50 m ±



**STAGE #3C**  
DOWNSTREAM ACCESS RAMP, TEMPORARY BRIDGE AND TOWER CRANE FOUNDATION CONSTRUCTION

UNITS:  
- DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE  
- ELEVATION VALUES ARE IN METERS  
- HORIZONTAL DATUM: NORTH AMERICA DATUM 1983 (NAD 83)  
- VERTICAL DATUM: CANADIAN MEAN SEA LEVEL (1984)  
- HORIZONTAL SCALE: 1:5000  
- VERTICAL SCALE: 1:5000  
- DATUM: CANADIAN GEODETIC DATUM 1983 (CGD 83)

**Reviewed/Examiné**  
MAY 21 2014  
Page 1 of 2  
by/par [Signature]  
Navigation Protection Program/  
Programme de Protection de Navigation



NORTH BALA  
SMALL HYDRO PROJECT



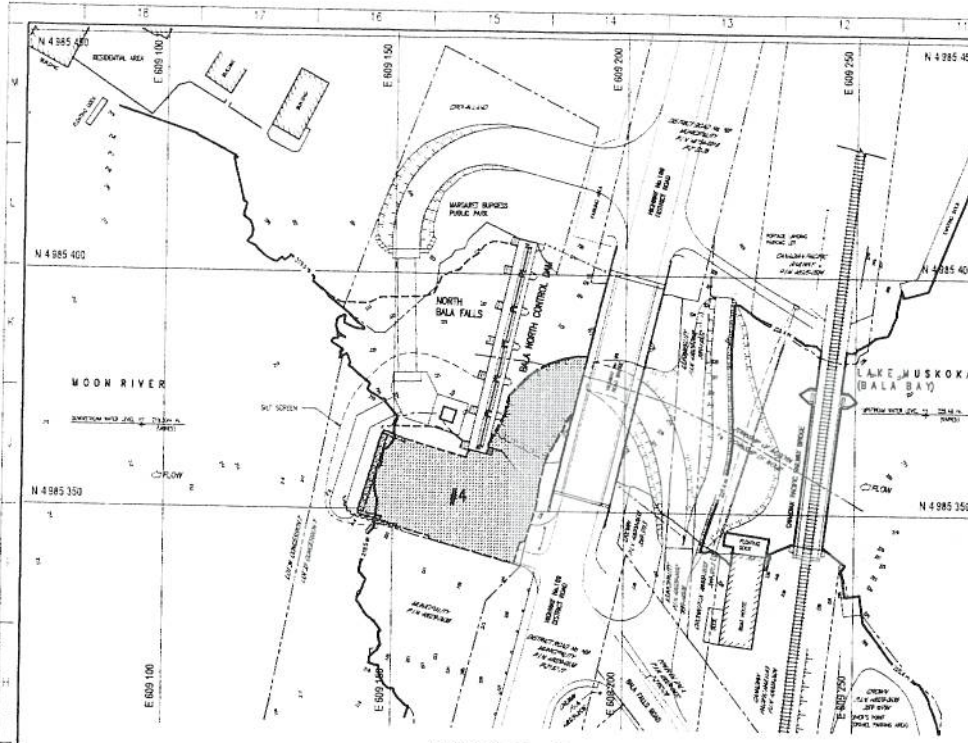
ENERGY

DESIGNED BY:  
S. BESSON, M. GOSSETTS, P. ENG.  
CHECKED BY:  
S. BESSON, M. CLOUTIER, TECH.  
DRAWN BY:  
S. BOURDEAU, P. ENG.

CONSTRUCTION STAGES  
PLAN VIEWS (2/3)

131-13550-NWSA-05

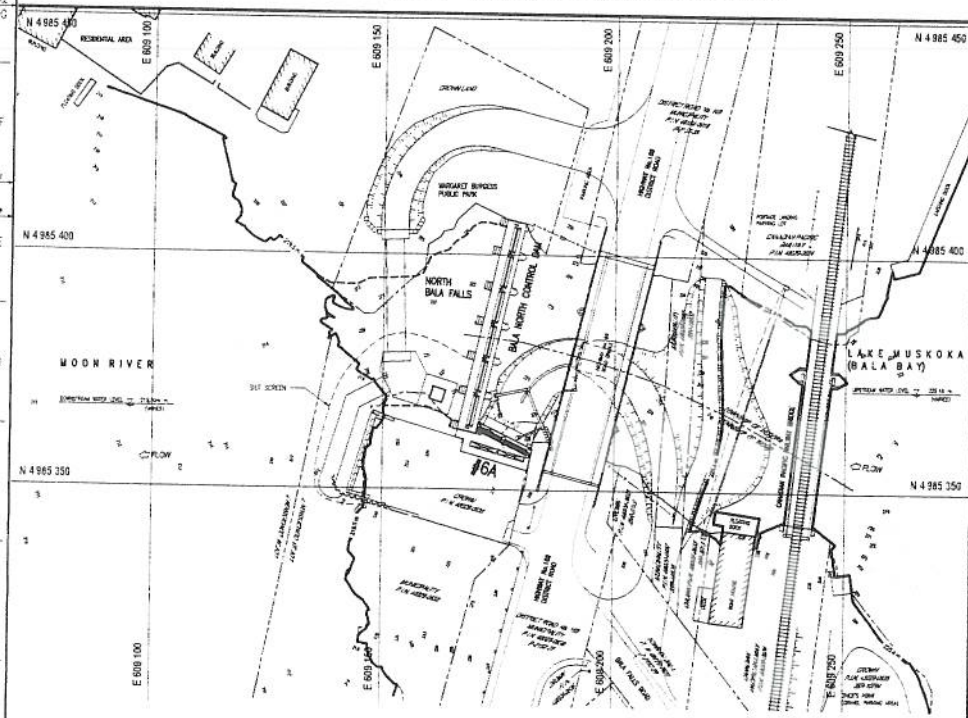
NWSA APPLICATION A 10



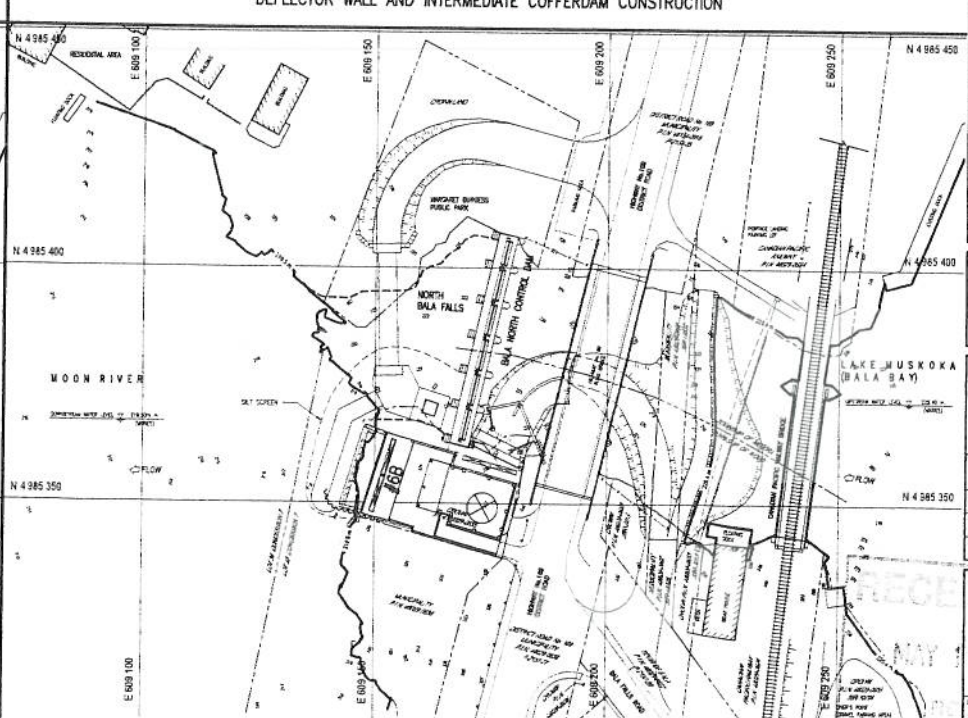
**STAGE #4**  
INTAKE CANAL AND POWERHOUSE EXCAVATION AND TOWER CRANE INSTALLATION



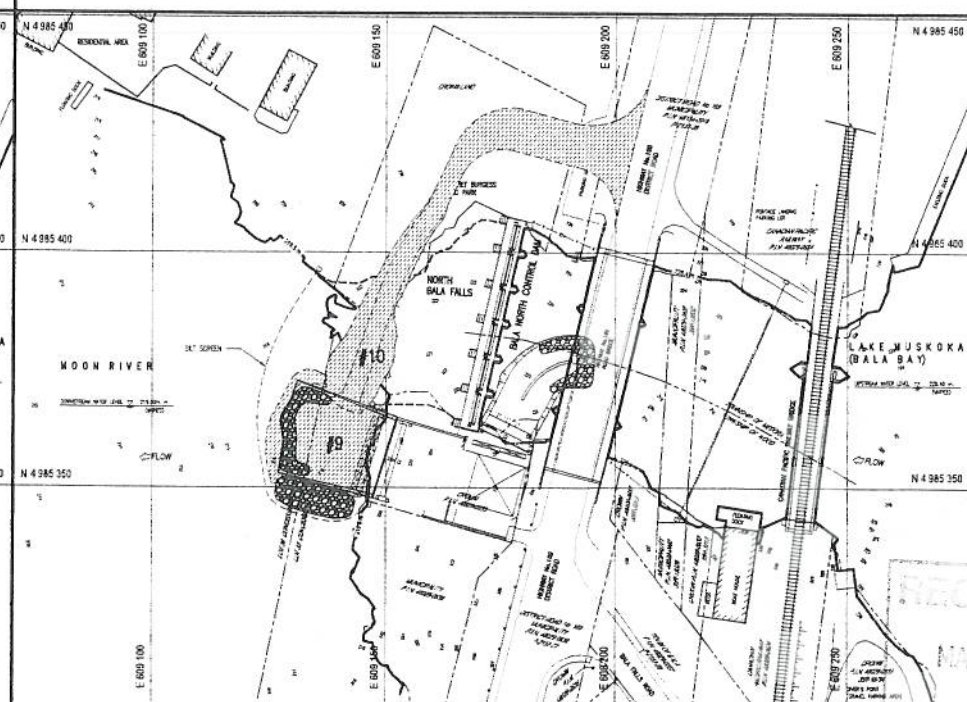
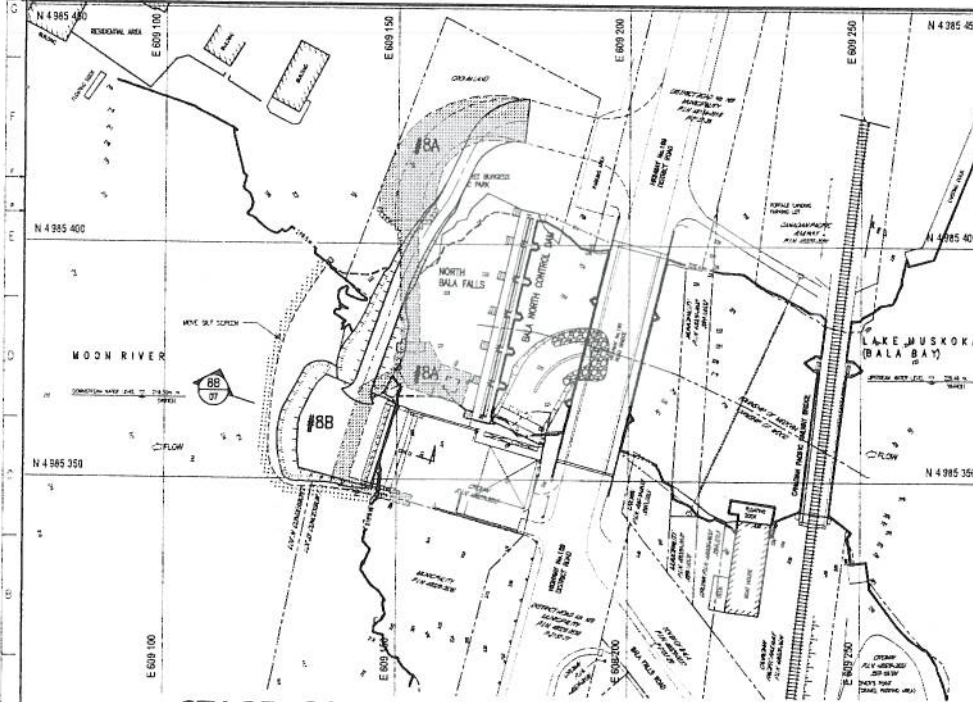
**STAGE #5**  
DEFLECTOR WALL AND INTERMEDIATE COFFERDAM CONSTRUCTION



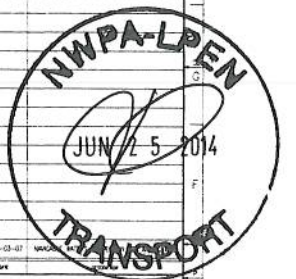
**STAGE #6A**  
INTAKE STRUCTURE CONSTRUCTION AND UPSTREAM GATE INSTALLATION



**STAGE #6B**  
POWERHOUSE CONSTRUCTION



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 MAY 21 2014  
 Page 8 of 8  
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NORTH BALA  
 SMALL HYDRO PROJECT



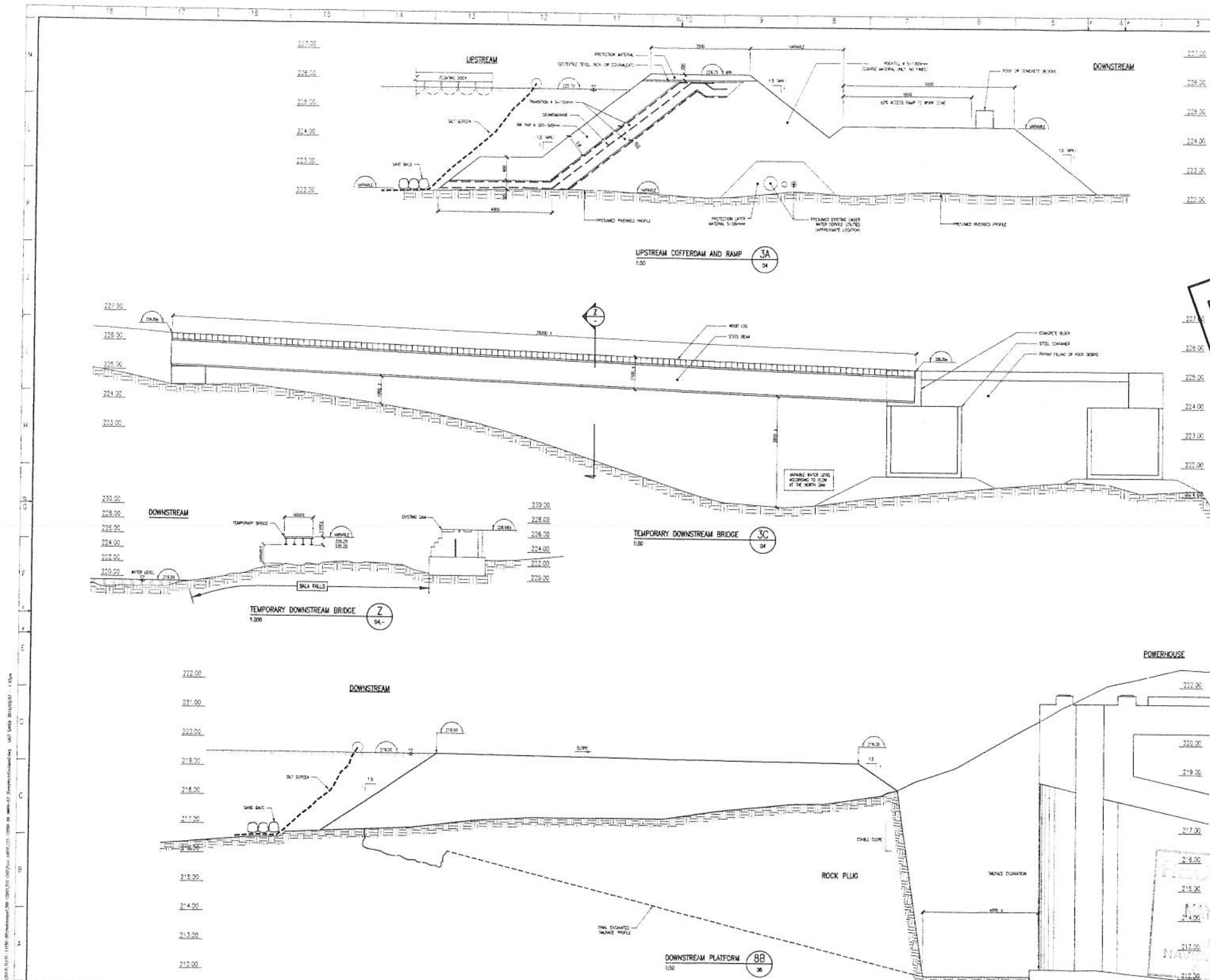
ENERGY  
 S. BISSON, M. DUCHÊTEL, P. ENG.  
 S. BISSON, M. CLOUTIER, TECH.  
 S. BOURQUE, P. ENG.

CONSTRUCTION STAGES  
 PLAN VIEWS (3/3)  
 15 2014

131-13550-NWPA-06

NWPAL APPLICATION  
 2014-03-07  
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**Swift River Energy LIMITED**

**Reviewed/Examiné**  
 MAY 21 2014  
 Page 2 of 2  
 By/par Navigation Protection Program/ Programme de Protection de Navigation

**NWPA-LPEN**  
 JUN 15 2014  
 TRANSPORT

**NORTH BALA SMALL HYDRO PROJECT**

**WSP ENERGY**  
 PROJECT NO. 13-100

**TEMPORARY WORKS SECTIONS**  
 MAY 16 2014  
 131-13550-NWPA-07

**N.W.P.A. APPLICATION**

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