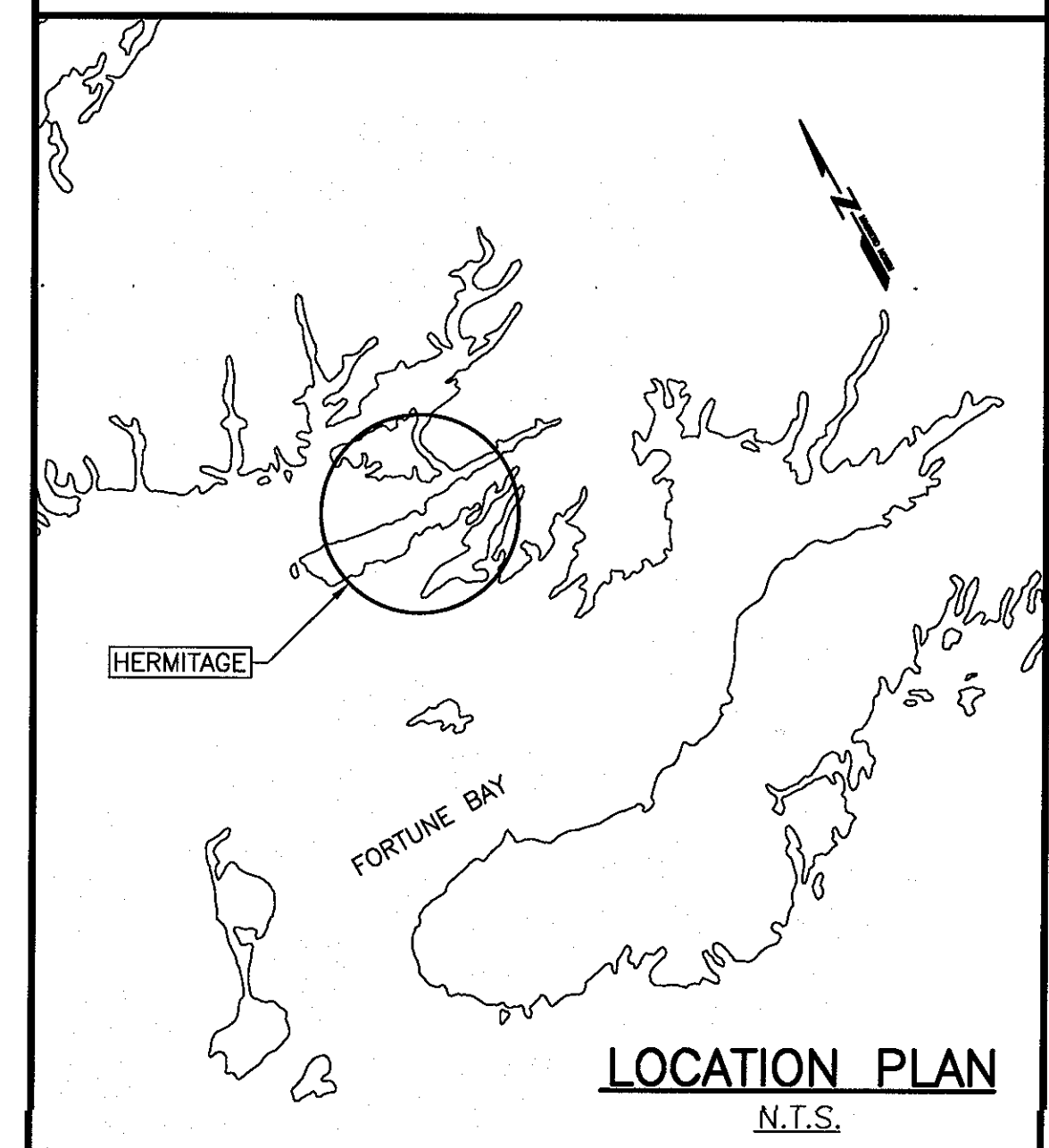
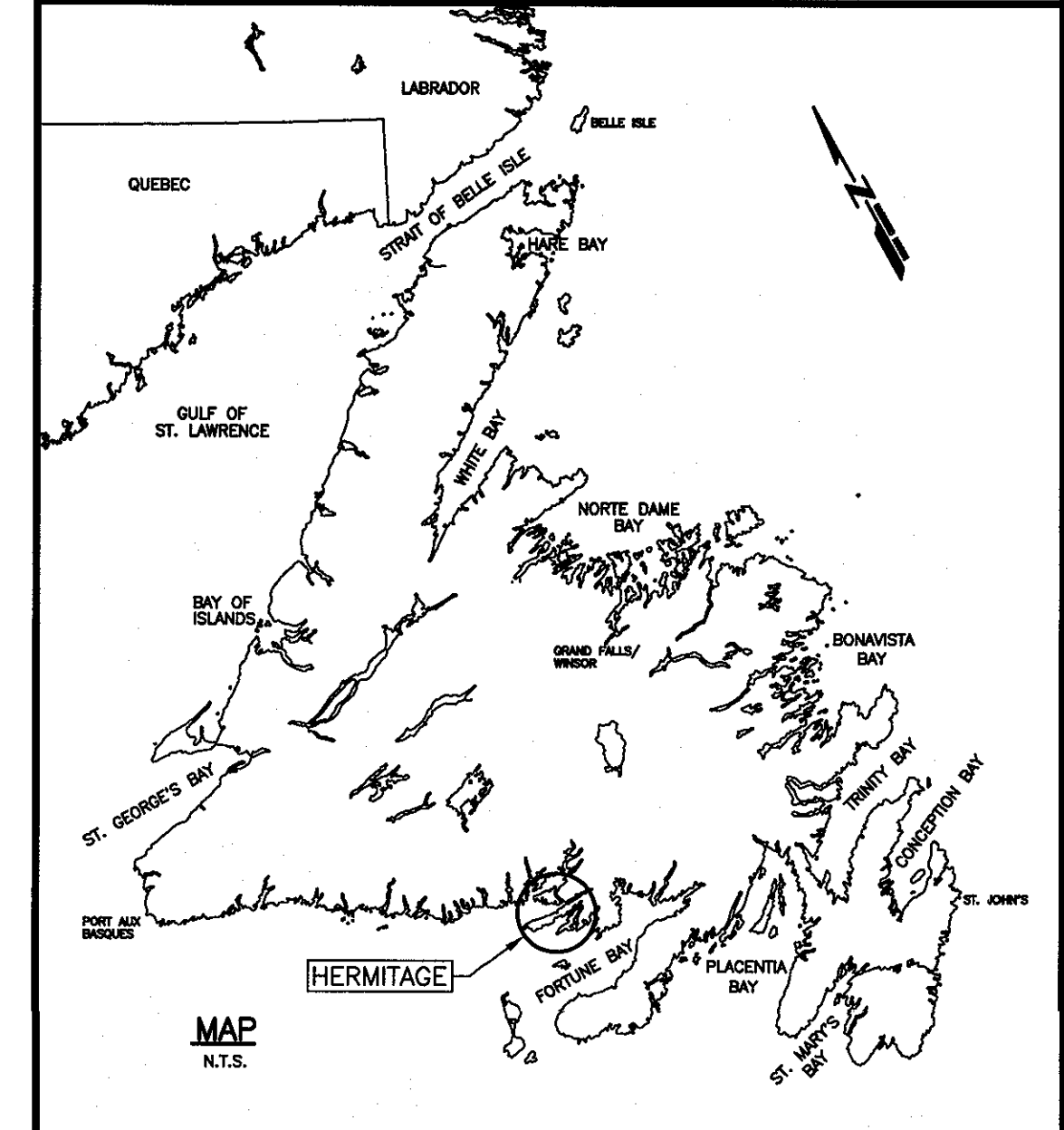
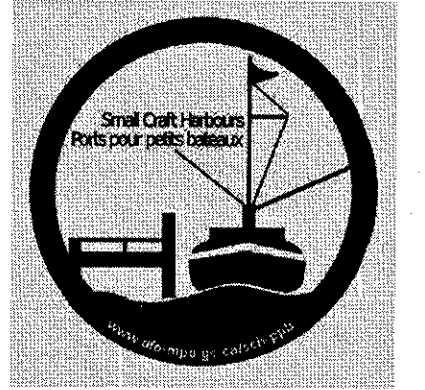


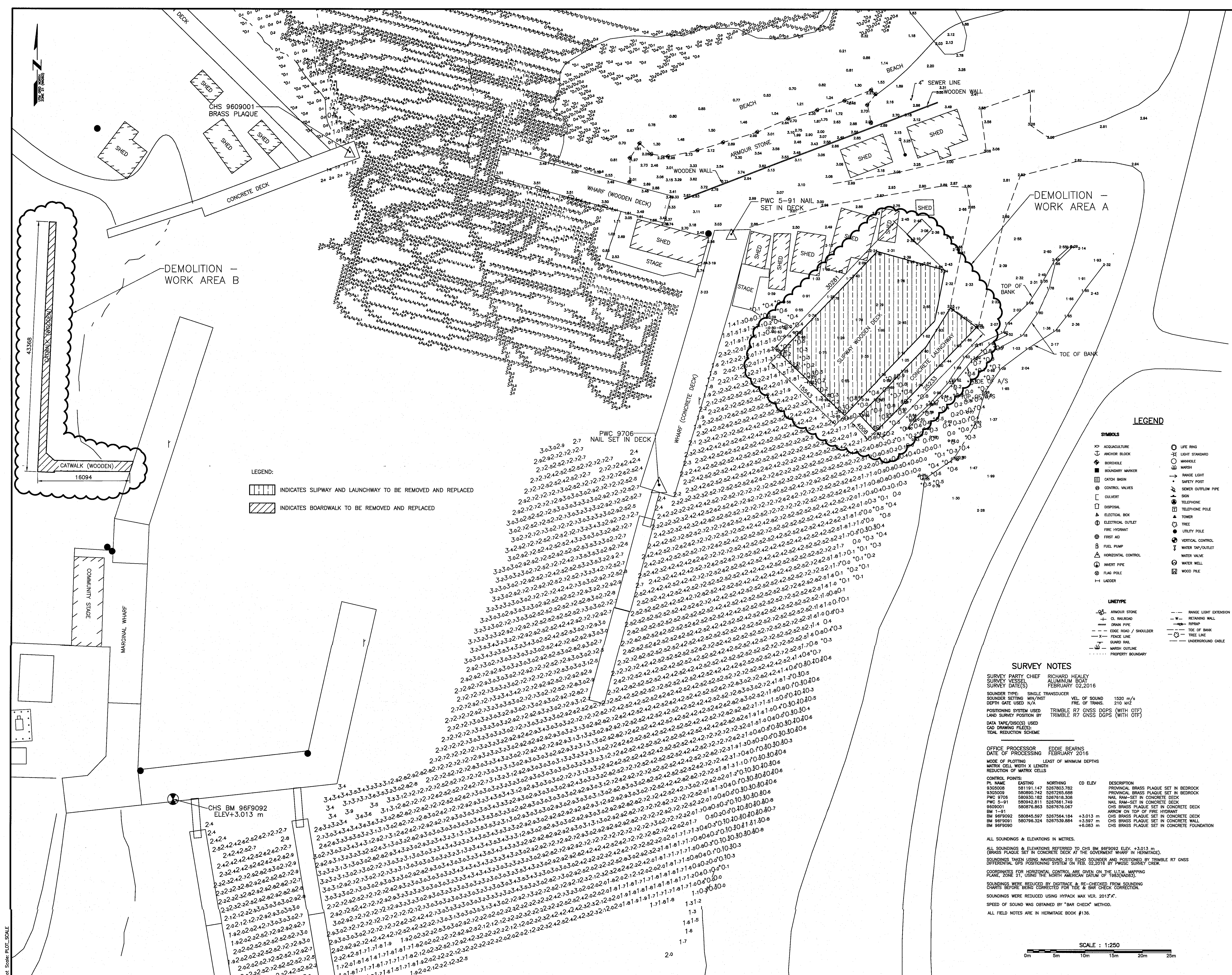
FISHERIES AND OCEANS  
CANADA

SLIPWAY RECONSTRUCTION  
HERMITAGE  
NEWFOUNDLAND AND LABRADOR

PROJECT No. 721935  
ISSUED FOR TENDER

SMALL CRAFT HARBOURS





LEGEND:

[Hatched Box] INDICATES SLIPWAY AND LAUNCHWAY TO BE REMOVED AND REPLACED

[Hatched Box] INDICATES BOARDWALK TO BE REMOVED AND REPLACED

**LEGEND**

**SYMBOLS**

- ANCHOR BLOCK
- BORCHOLE
- BOUNDARY MARKER
- CATCH BASIN
- CONTROL VALVES
- CLAYPIT
- DISPOSAL
- ELECTRICAL BOX
- ELECTRICAL OUTLET
- FIRE HYDRANT
- FIRST AID
- FUEL PUMP
- HORIZONTAL CONTROL
- INVERT PIPE
- FLAG POLE
- LADDER
- LIFE RING
- LIGHT STANDARD
- MANHOLE
- MARSH
- RANGE LIGHT
- SAFETY POST
- SEWER OUTFLOW PIPE
- SIEN
- TELEPHONE
- TELEPHONE POLE
- TOWER
- TREE
- UTILITY POLE
- VERTICAL CONTROL
- WATER TAP/OUTLET
- WATER VALVE
- WATER WELL
- WOOD PILE

**LINE TYPE**

- ARMOUR STONE
- CL ROAD
- DRAIN PIPE
- EDGE ROAD / SHOULDER
- FENCE LINE
- GUARD RAIL
- MARSH OUTLINE
- PROPERTY BOUNDARY
- RANGE LIGHT EXTENSION
- RETAINING WALL
- RIPRAP
- TOE OF BANK
- TREE LINE
- UNDERGROUND CABLE

**SURVEY NOTES**

SURVEY PARTY CHIEF: RICHARD HEALEY  
 SURVEY VESSEL: ALUMINUM BOAT  
 SURVEY DATE(S): FEBRUARY 02, 2016

SONDER TYPE: SINGLE TRANSDUCER  
 SONDER SETTINGS: MIN/MAX: 1520 m/s, VEL. OF SOUND: 1520 m/s, FREQ. OF TRANS.: 210 MHz

POSITIONING SYSTEM USED: TRIMBLE R7 GNSS DGPS (WITH OTF)  
 LAND SURVEY POSITION BY: TRIMBLE R7 GNSS DGPS (WITH OTF)

DATA WAPING (YES/NO): YES  
 CAD DRAWING FILE(S):  
 TIDAL REDUCTION SCHEME:

OFFICE PROCESSOR: EDDIE BEARNS  
 DATE OF PROCESSING: FEBRUARY 2016

MODE OF PLOTTING: LEAST OF MINIMUM DEPTHS  
 MATRIX CELL WIDTH X LENGTH: 2.00 x 2.00  
 REDUCTION OF MATRIX CELLS:

**CONTROL POINTS**

PL. NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
9325008	581191.147	5287903.782		PROVINCIAL BRASS PLAQUE SET IN BEDROCK
9325009	580890.742	5287285.688		PROVINCIAL BRASS PLAQUE SET IN BEDROCK
PWC 9706	580930.182	5287618.308		NAIL RAM-SET IN CONCRETE DECK
PWC 5-91	580942.811	5287661.749		NAIL RAM-SET IN CONCRETE DECK
REG0001	580876.863	5287874.067		CHS BRASS PLAQUE SET IN CONCRETE DECK
BM 1-81	580845.597	5287564.184	+3.013 m	ARROW ON TOP OF FIRE HYDRANT
BM 98F9092	580798.324	5287530.884	+3.997 m	CHS BRASS PLAQUE SET IN CONCRETE DECK
BM 98F9091	580798.324	5287530.884	+3.997 m	CHS BRASS PLAQUE SET IN CONCRETE DECK
BM 98F9090	580798.324	5287530.884	+3.997 m	CHS BRASS PLAQUE SET IN CONCRETE DECK

**ALL SOUNDINGS & ELEVATIONS IN METRES.**

(ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 98F9092 ELEV. +3.013 m (BRASS PLAQUE SET IN CONCRETE DECK AT THE GOVERNMENT WHARF IN HERMITAGE).)

SOUNDINGS TAKEN USING NAVISOUND 210, ECHO SOUNDING AND POSITIONED BY TRIMBLE R7 GNSS DIFFERENTIAL GPS POSITIONING SYSTEM ON FEB. 02, 2016 BY PHOENIX SURVEY CREW.

COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE UTM MAPPING PLANE, ZONE 11, USING THE NORTH AMERICAN DATUM OF 1983 (NAD83).

SOUNDINGS WERE REDUCED BY DIGITRACE & RE-CHECKED FROM SOUNDING CHARTS BEFORE BEING CORRECTED FOR TIDE & BAR CHECK CORRECTION.

SOUNDINGS WERE REDUCED USING HYPACK MAX VER. 2013.7A.

SPEED OF SOUND WAS OBTAINED BY "BAR CHECK" METHOD.

ALL FIELD NOTES ARE IN HERMITAGE BOOK #136.

SCALE: 1:250

0m 5m 10m 15m 20m 25m

**SMALL CRAFT HARBOURS**

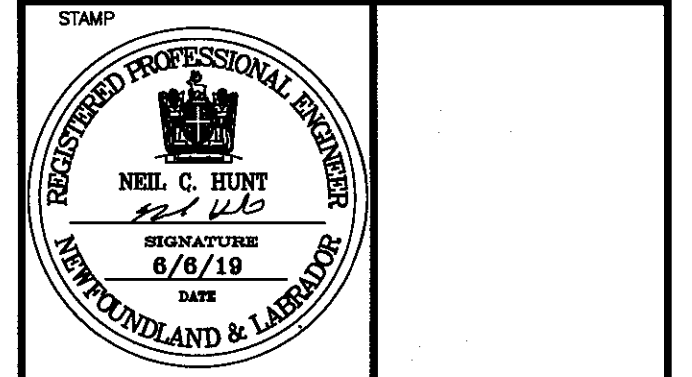


**NOTES:**

- ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

PROVINCE OF NEWFOUNDLAND  
**PERMIT HOLDER**  
 This Permit Allows  
 APN ENGINEERING INC.

To practice Professional Engineering in Newfoundland and Labrador, *see Act*  
 Permit No. as issued by APENL: *see Act*  
 which is valid for the year 2019.



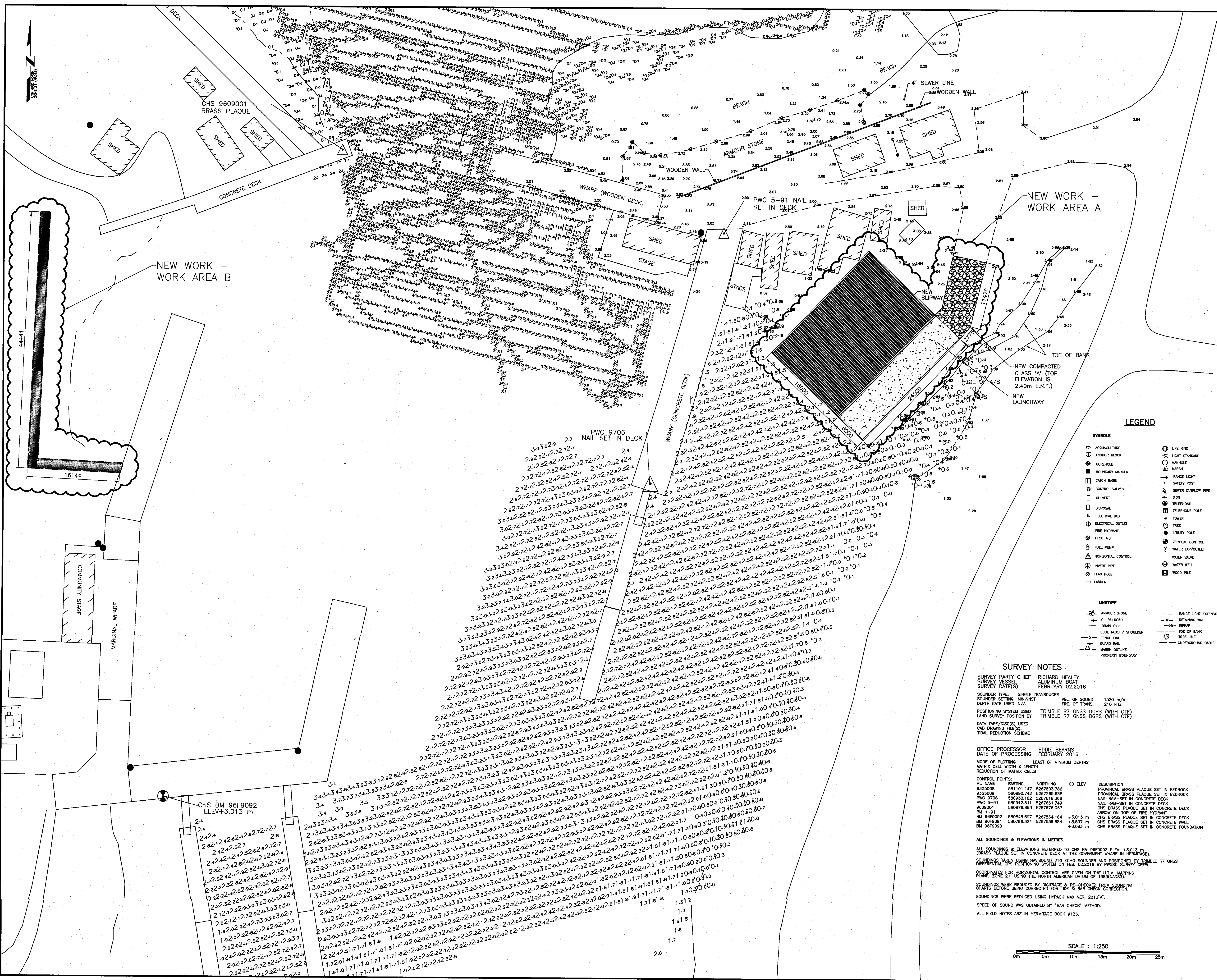
revision	date	project
C	ISSUED FOR TENDER	6/6/19
B	ISSUED FOR 90% REVIEW	2/28/19
A	ISSUED FOR REVIEW	2/12/19

**SLIPWAY RECONSTRUCTION**  
**HERMITAGE, NL**

drawing: deslin

**DEMOLITION PLAN**

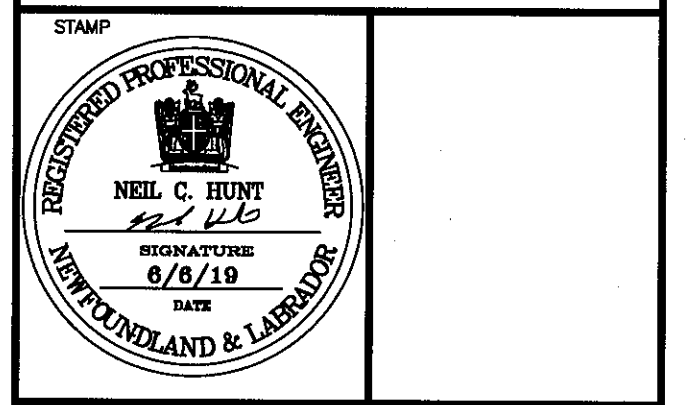
designed: N.H. concu  
 date: P.H., 6, 2019  
 drawn: P.H. deslin  
 date: JUNE 6, 2019  
 approved: [Signature] approve  
 [Signature] Submission  
 DFO Project Manager  
 project number: 721935 no. du projet  
 drawing no. no. du dessin  
**C1**



**SMALL CRAFT HARBOURS**

NOTES:  
 1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.  
 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

PROVINCE OF NEWFOUNDLAND  
 PERMIT HOLDER  
 This Permit Allows  
**AFN ENGINEERING INC.**  
 To practice Professional Engineering in Newfoundland and Labrador. *As of 1/1/19*  
 Permit No. as issued by APEPROL 20222, which is valid for the year 2019.



**LEGEND**

<ul style="list-style-type: none"> <li>ANCHOR BLOCK</li> <li>BODYPILE</li> <li>BOUNDARY MARKER</li> <li>DATCH BASIN</li> <li>CONTROL VALVES</li> <li>CUVERT</li> <li>DISPOSAL</li> <li>ELECTRICAL BOX</li> <li>ELECTRICAL OUTLET</li> <li>FIRE HYDRANT</li> <li>FIRST AID</li> <li>FUEL PUMP</li> <li>HORIZONTAL CONTROL</li> <li>INVERT PIPE</li> <li>FLAG POLE</li> <li>LADDER</li> </ul>	<ul style="list-style-type: none"> <li>LIFE RING</li> <li>LIGHT STAND/HD</li> <li>MANHOLE</li> <li>MARSH</li> <li>RANGE LIGHT</li> <li>SAFETY POST</li> <li>SEWER OUTFLOW PIPE</li> <li>SIGN</li> <li>TELEPHONE POLE</li> <li>TOWER</li> <li>TRIE</li> <li>UTILITY POLE</li> <li>VERTICAL CONTROL</li> <li>WATER TAP/OUTLET</li> <li>WATER VALVE</li> <li>WATER WELL</li> <li>WOOD PILE</li> </ul>
---	--

**LINE/TYPE**

ARMOUR STONE	RANGE LIGHT EXTENSION
CL. ROAD	RETAINING WALL
CRAN PIPE	RIPRAP
EDGE ROAD / SHOULDER	TOE OF BANK
FENCE LINE	TRIE LINE
SHED	UNDERGROUND CABLE
MARSH OUTLINE	
PROPERTY BOUNDARY	

**SURVEY NOTES**

SURVEY PARTY CHIEF RICHARD HEALEY  
 SURVEY VESSEL ALUMINUM BOAT  
 SURVEY DATE(S) FEBRUARY 02, 2016

SOUNDER TYPE SINGLE TRANSDUCER  
 SOUNDER SETTING MIN/INST VEL. OF SOUND 1550 m/s  
 DEPTH GATE USED N/A FIRE OF TRANS. 210 kHz

POSITIONING SYSTEM USED TRIMBLE R7 GNSS DGPS (WITH OTF)  
 LAND SURVEY POSITION BY TRIMBLE R7 GNSS DGPS (WITH OTF)

DATA TYPE(DIGITS) USED CAD DRAWING FILES  
 TIDAL REDUCTION SCHEME

OFFICE PROCESSOR EDDIE BEARNS  
 DATE OF PROCESSING FEBRUARY 2016

MODE OF PLOTTING LEAST OF MINIMUM DEPTHS  
 MATRIX CELL WIDTH X LENGTH  
 REDUCTION OF MATRIX CELLS

CONTROL POINTS:

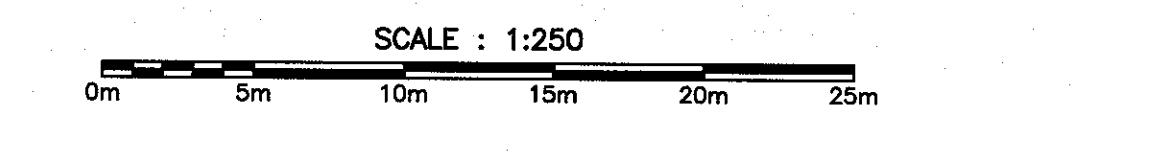
PL NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
935006	581191.147	5267803.782		PROVINCIAL BRASS PLAQUE SET IN BEDROCK
935009	580890.742	5267265.688		PROVINCIAL BRASS PLAQUE SET IN BEDROCK
PWC 9706	580230.182	5267181.308		NAIL RAM-SET IN CONCRETE DECK
PWC 5-91	580422.811	5267661.749		NAIL RAM-SET IN CONCRETE DECK
9609001	580676.883	5267676.087		CHS BRASS PLAQUE SET IN CONCRETE DECK
BM 1-31				ARROW ON TOP OF FIRE HYDRANT
BM 96F9002	580845.597	5267564.184	+3.013 m	CHS BRASS PLAQUE SET IN CONCRETE DECK
BM 96F9001	580796.324	5267539.884	+3.597 m	CHS BRASS PLAQUE SET IN CONCRETE WALL
BM 96F9000			+6.053 m	CHS BRASS PLAQUE SET IN CONCRETE FOUNDATION

C	ISSUED FOR TENDER	6/6/19
B	ISSUED FOR 90% REVIEW	2/28/19
A	ISSUED FOR REVIEW	2/12/19
		date
revisions		date
project		project

**SLIPWAY RECONSTRUCTION**  
**HERMITAGE, NL**

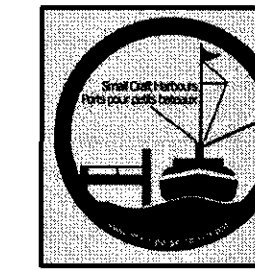
**NEW SITE PLAN**

designed	N.H.	concu
drawn	P.H.	desine
date	JUNE 6, 2019	
date	JUNE 6, 2019	
approved		approve
Tender	<i>Paul</i>	Submission
DFP Project Manager		
project number	721935	no. du projet
drawing no.	C2	no. du dessin



PLOT SCALE: PLOT SCALE

SMALL CRAFT HARBOURS

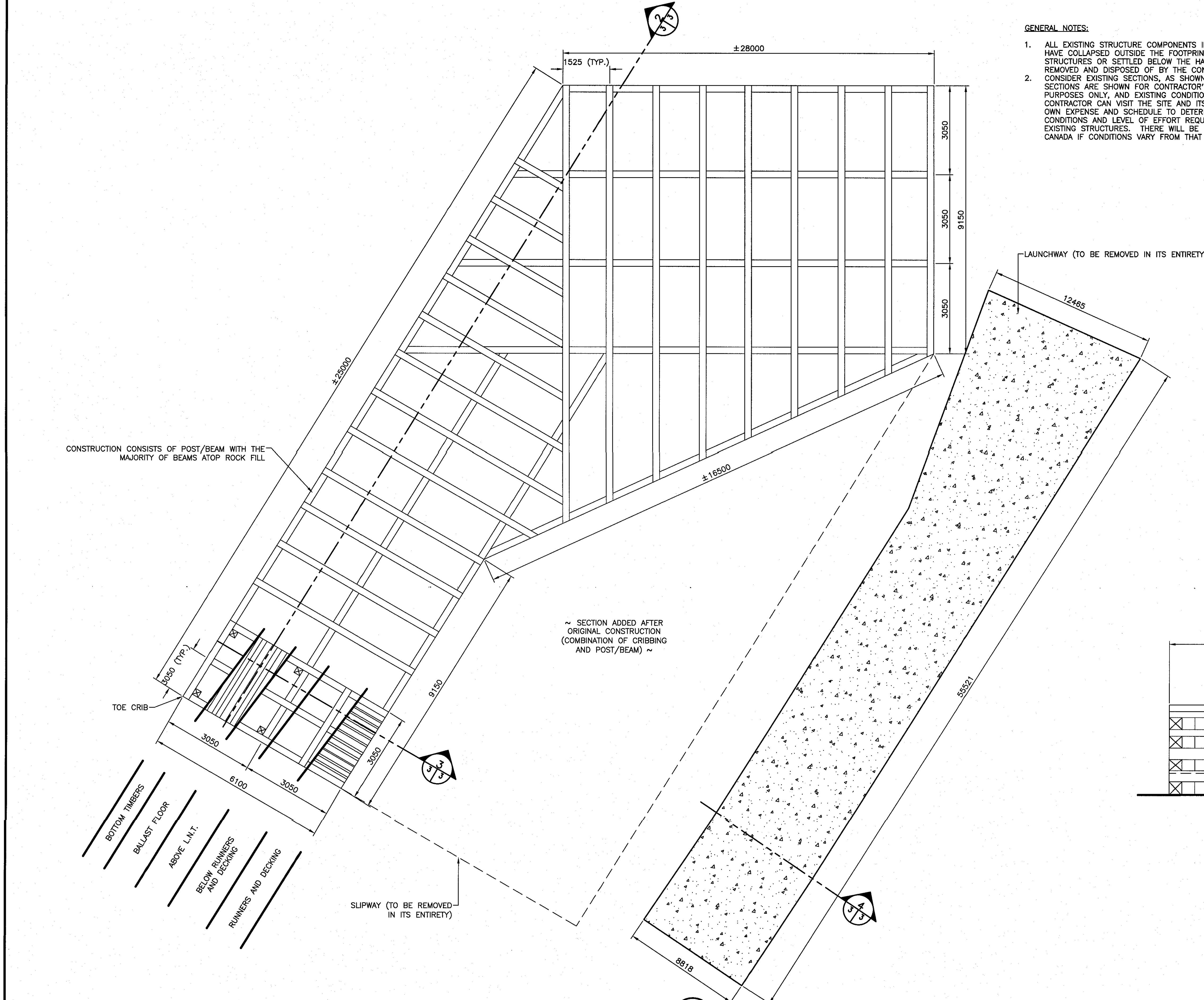
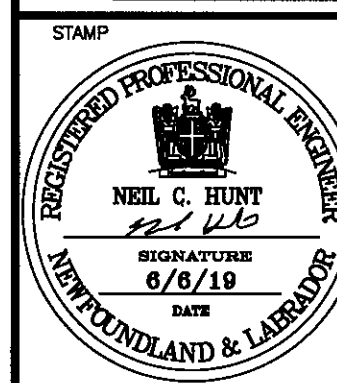


NOTES:

1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

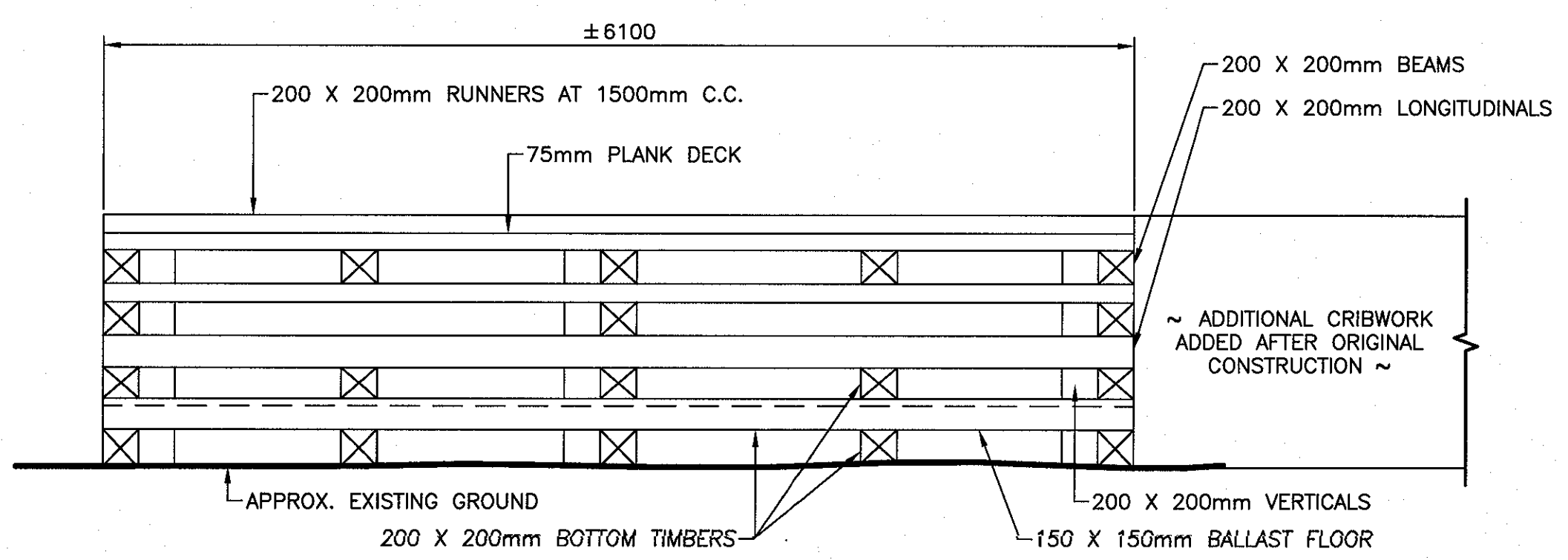
PROVINCE OF NEWFOUNDLAND  
 PERMIT HOLDER  
 This Permit Allows  
 APN ENGINEERING INC.

To practice Professional Engineering in Newfoundland and Labrador, Permit No. as Issued by APEBC 23292, which is valid for the year 2019.



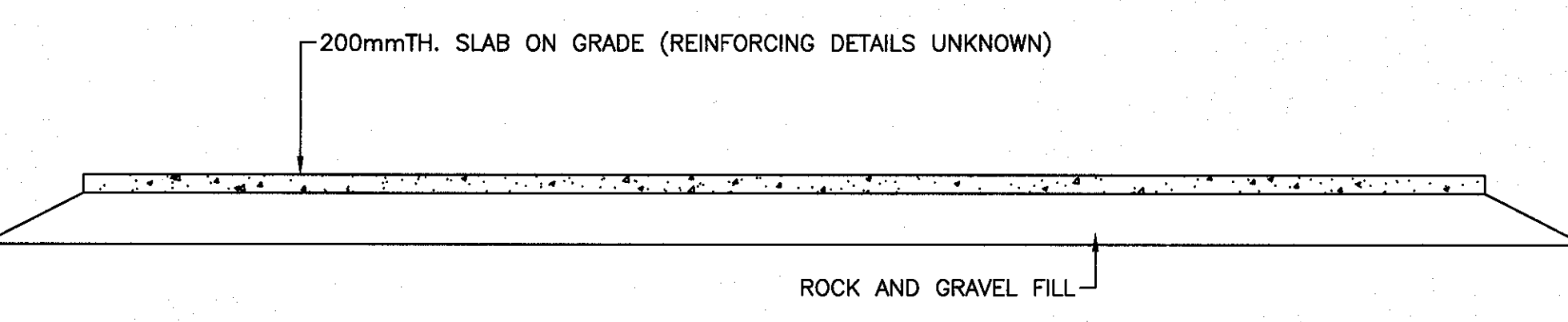
GENERAL NOTES:

1. ALL EXISTING STRUCTURE COMPONENTS INCLUDING THOSE WHICH HAVE COLLAPSED OUTSIDE THE FOOTPRINT OF THE EXISTING STRUCTURES OR SETTLED BELOW THE HARBOUR BOTTOM ARE TO BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
2. CONSIDER EXISTING SECTIONS, AS SHOWN, TO BE APPROXIMATE. SECTIONS ARE SHOWN FOR CONTRACTOR'S GENERAL ILLUSTRATION PURPOSES ONLY, AND EXISTING CONDITIONS ARE EXPECTED TO VARY. CONTRACTOR CAN VISIT THE SITE AND ITS SURROUNDINGS AT THEIR OWN EXPENSE AND SCHEDULE TO DETERMINE THE EXISTING CONDITIONS AND LEVEL OF EFFORT REQUIRED TO REMOVE THE EXISTING STRUCTURES. THERE WILL BE NO ADDITIONAL COSTS TO CANADA IF CONDITIONS VARY FROM THAT SHOWN, IN THIS REGARD.

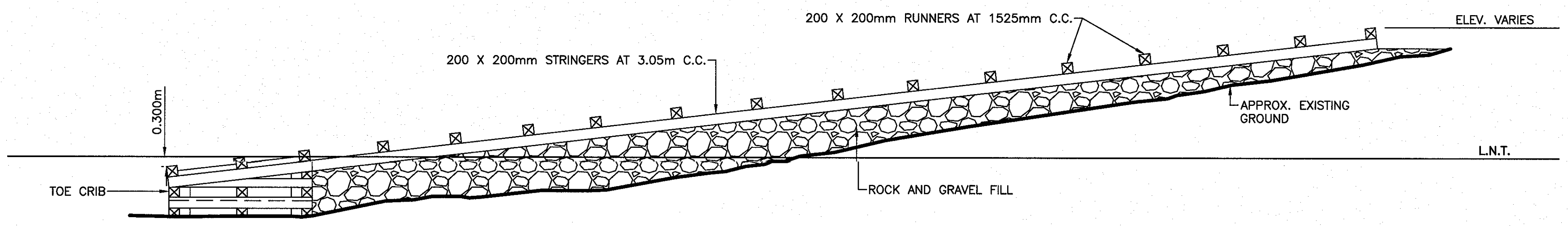


HEADBLOCK OF ORIGINAL SLIPWAY  
 SCALE : N.T.S.

EXISTING PLAN - LAUNCHWAY/SLIPWAY  
 SCALE : N.T.S.



EXISTING SECTION  
 SCALE : N.T.S.



SECTION  
 SCALE : N.T.S.

C	ISSUED FOR TENDER	6/6/19
B	ISSUED FOR 90% REVIEW	2/28/19
A	ISSUED FOR REVIEW	2/12/19
revisions		date

project  
 SLIPWAY RECONSTRUCTION  
 HERMITAGE, NL

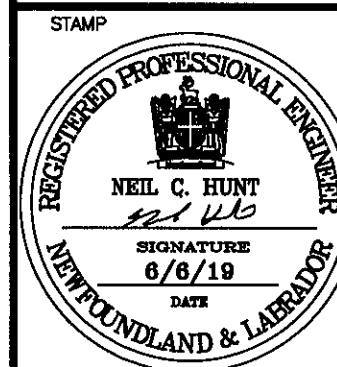
drawing  
 DESIGN  
 DEMOLITION - WORK AREA A

designed	N.H.	concep
date	JUNE 6, 2019	
drawn	P.H.	design
date	JUNE 6, 2019	
approved		approve
Tender	<i>Paul Brown</i>	Submission
DFO Project Manager		
project number	721935	no. du projet
drawing no.	C3	no. du dessin



- NOTES:
1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
  2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

PROVINCE OF NEWFOUNDLAND  
 PERMIT HOLDER  
 This Permit Allows  
 APN ENGINEERING INC.  
 To practice Professional Engineering  
 in Newfoundland and Labrador  
 Permit No. as issued by APESNL F0282  
 which is valid for the year 2019.

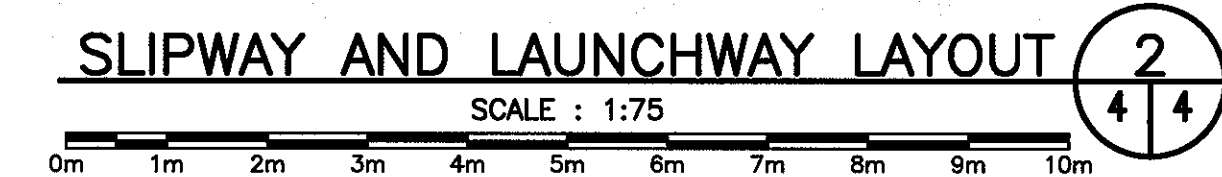
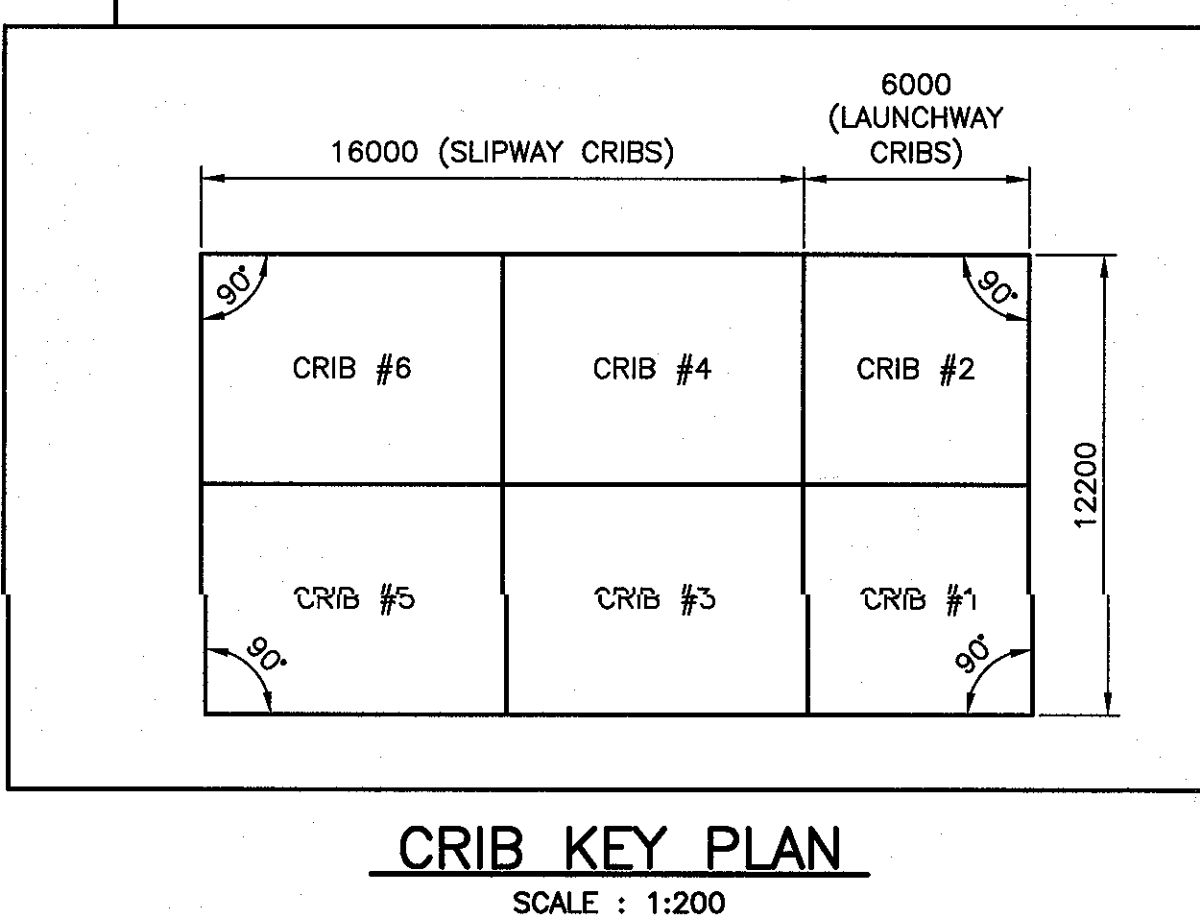
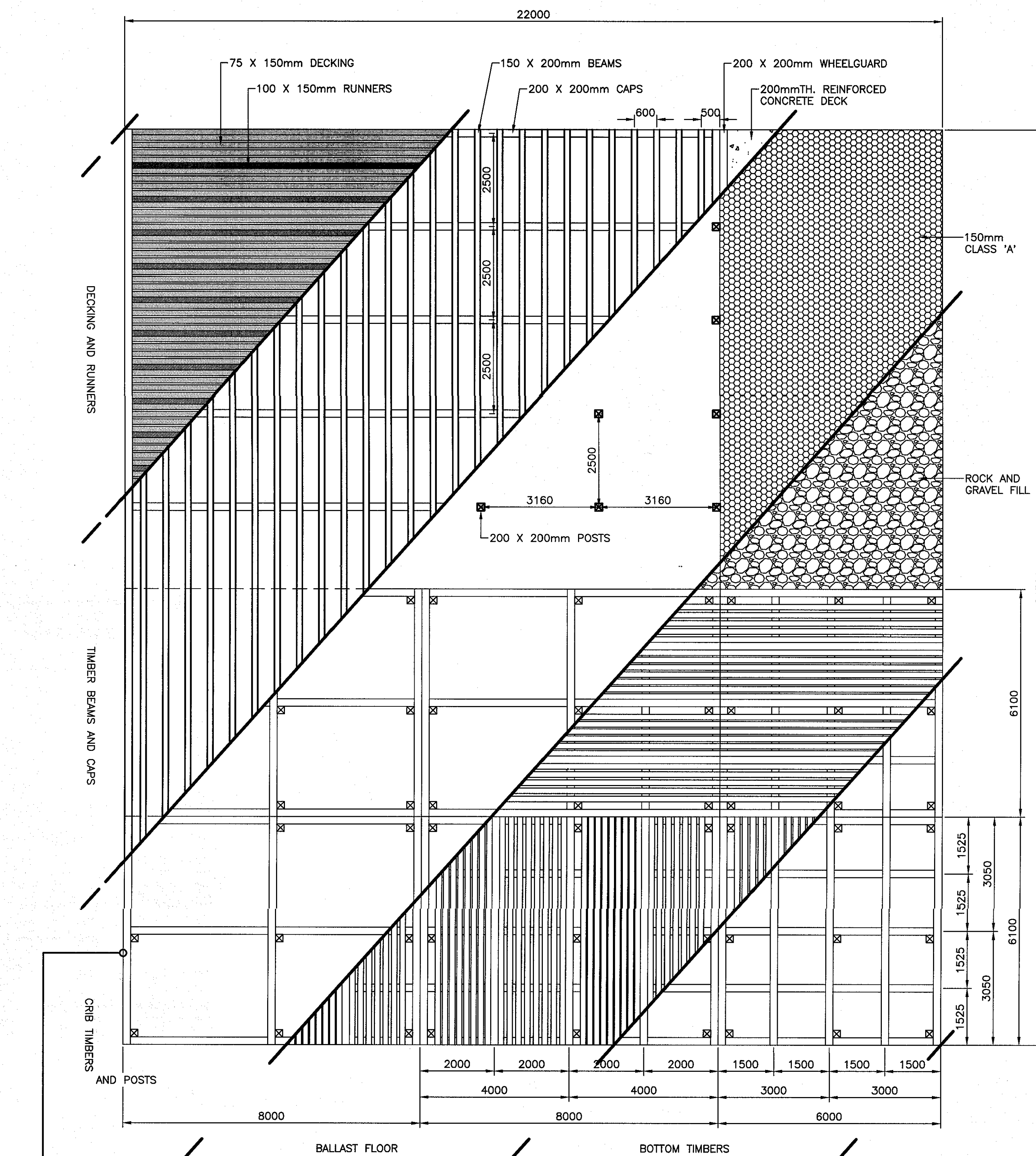
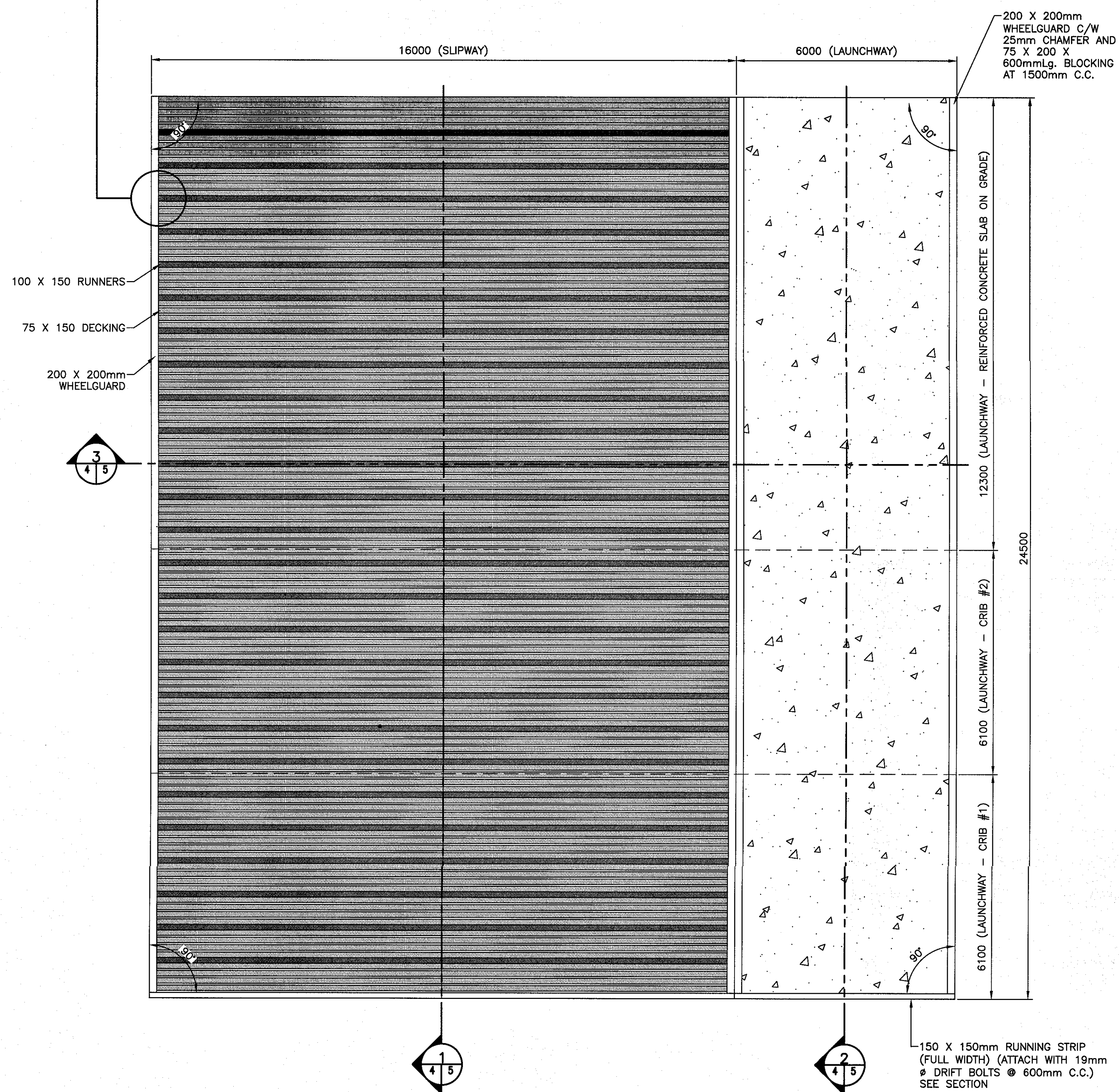
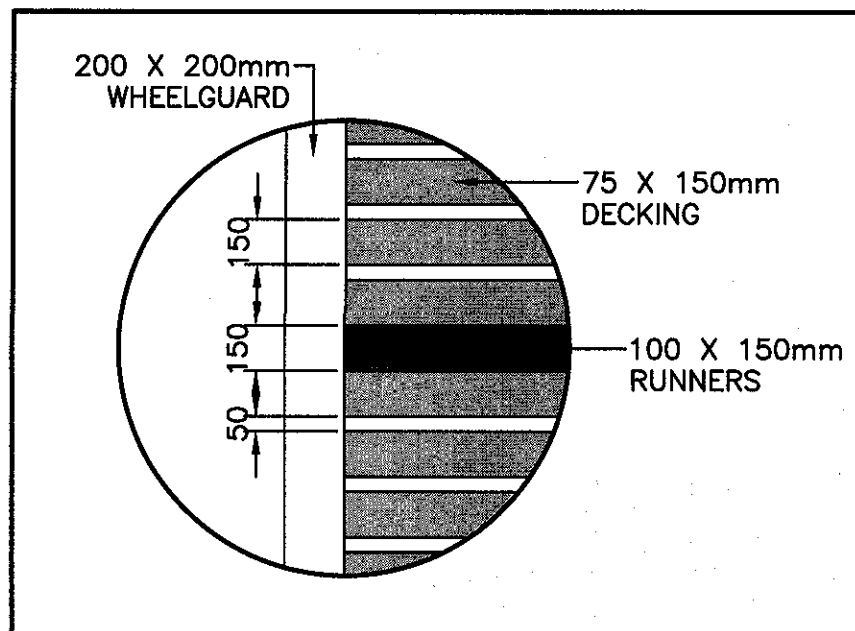


C	ISSUED FOR TENDER	6/6/19
B	ISSUED FOR 90% REVIEW	2/28/19
A	ISSUED FOR REVIEW	2/12/19
revisions		date

project  
**SLIPWAY RECONSTRUCTION**  
 HERMITAGE, NL

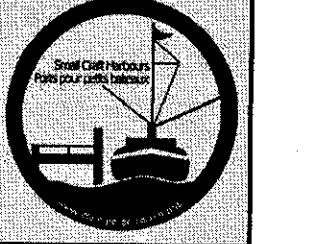
drawing  
**NEW WORK - WORK AREA A**

designed	N.H.	concu
date	JUNE 6, 2019	
drawn	P.H.	desine
date	JUNE 6, 2019	
approved		approve
Tender	Paul Curran	Submission
DFO Project Manager		
project number	721935	no. du projet
drawing no.	C4	no. du dessin



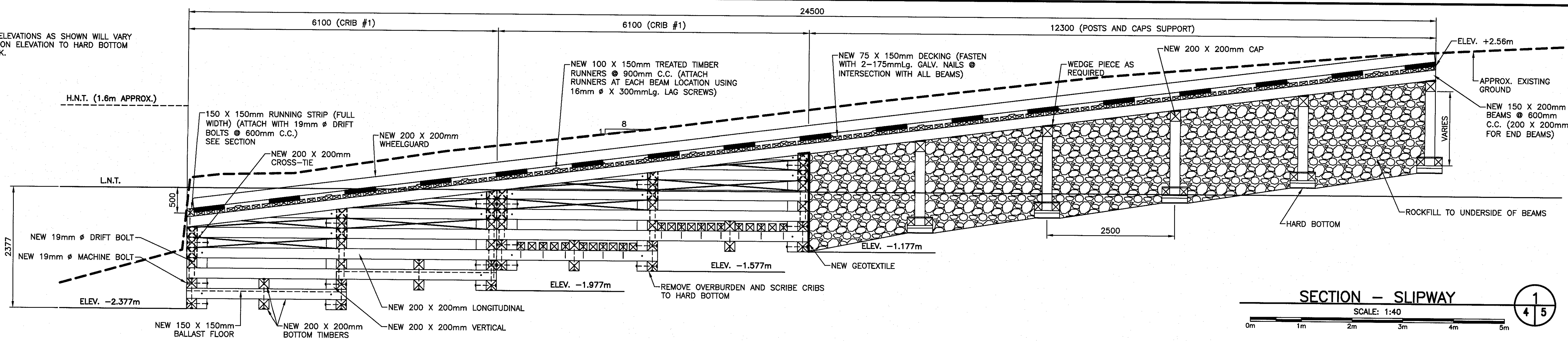
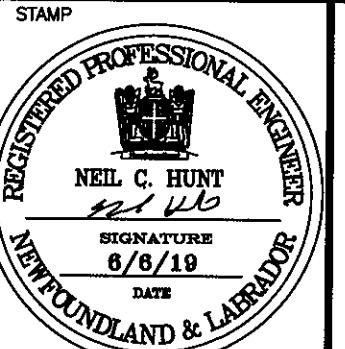
NOTE:  
1. CRIB SEAT ELEVATIONS AS SHOWN WILL VARY DEPENDING ON ELEVATION TO HARD BOTTOM OR BEDROCK.

SMALL CRAFT HARBOURS

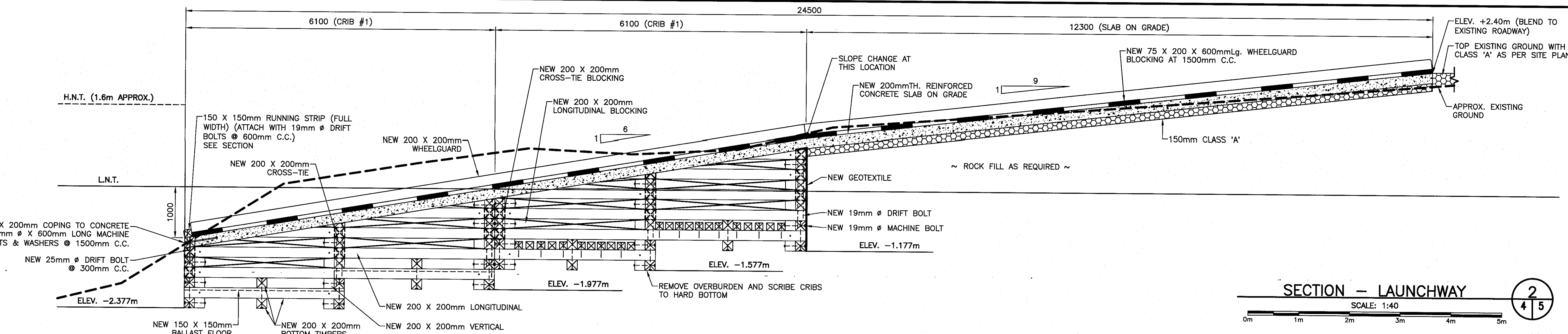


NOTES:  
1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.  
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

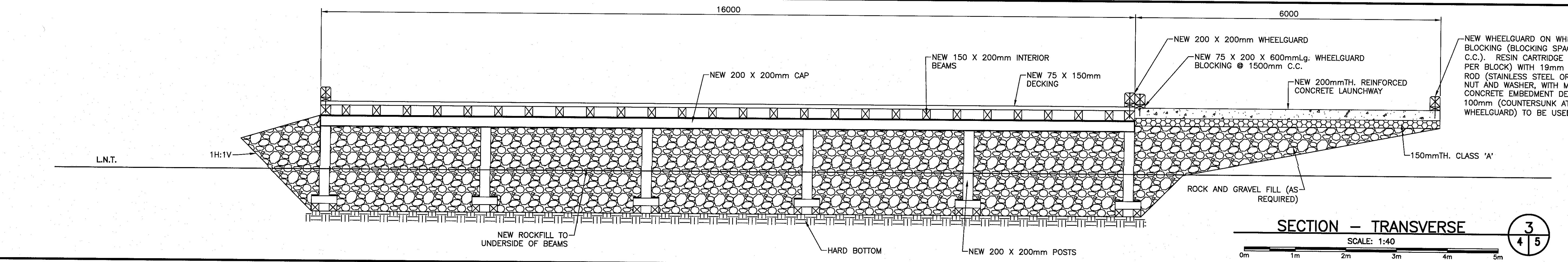
PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
This Permit Allows  
AFN ENGINEERING INC.  
To practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by APENL F0282, which is valid for the year 2019.



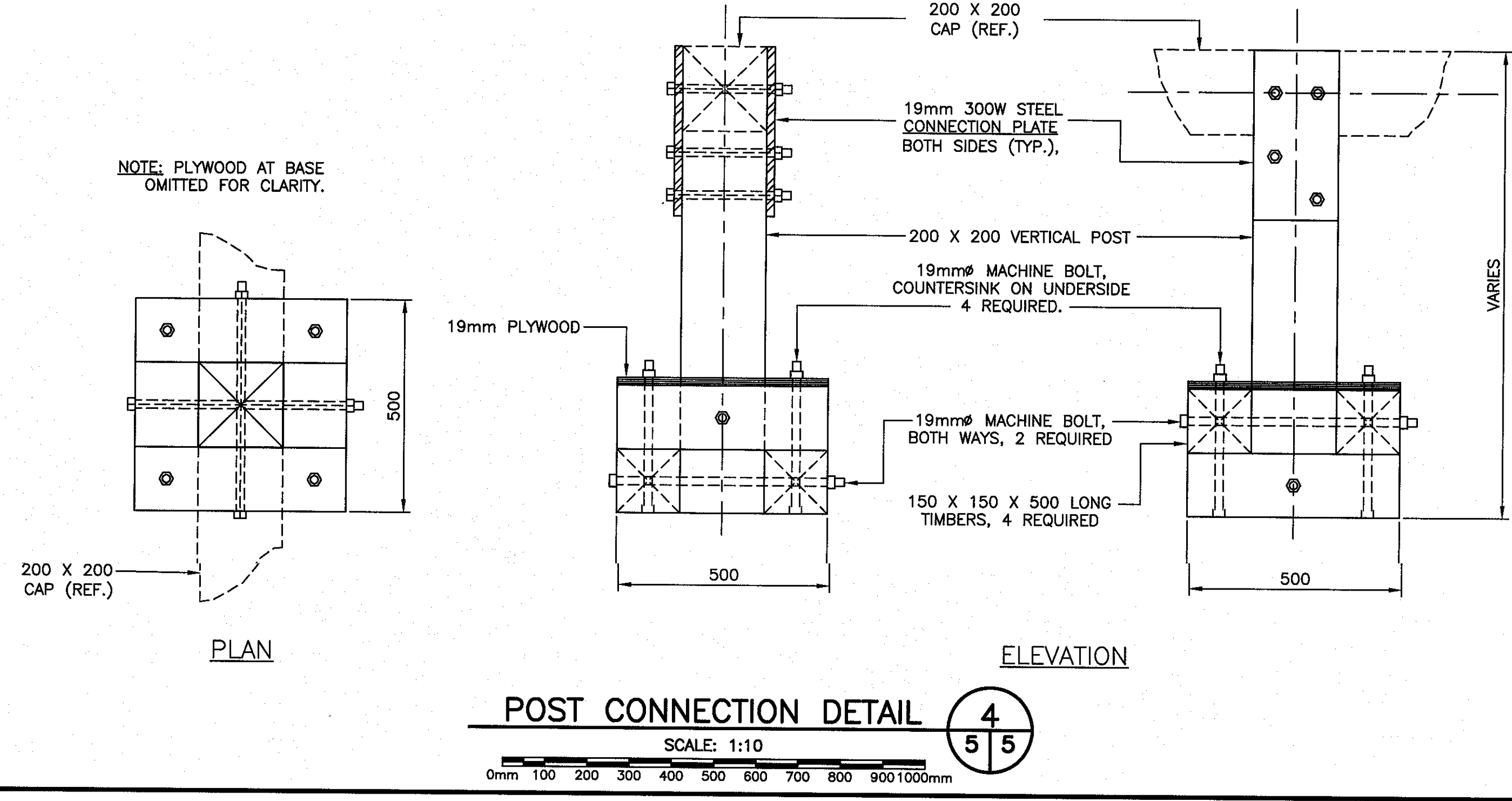
SECTION - SLIPWAY  
SCALE: 1:40  
1/45



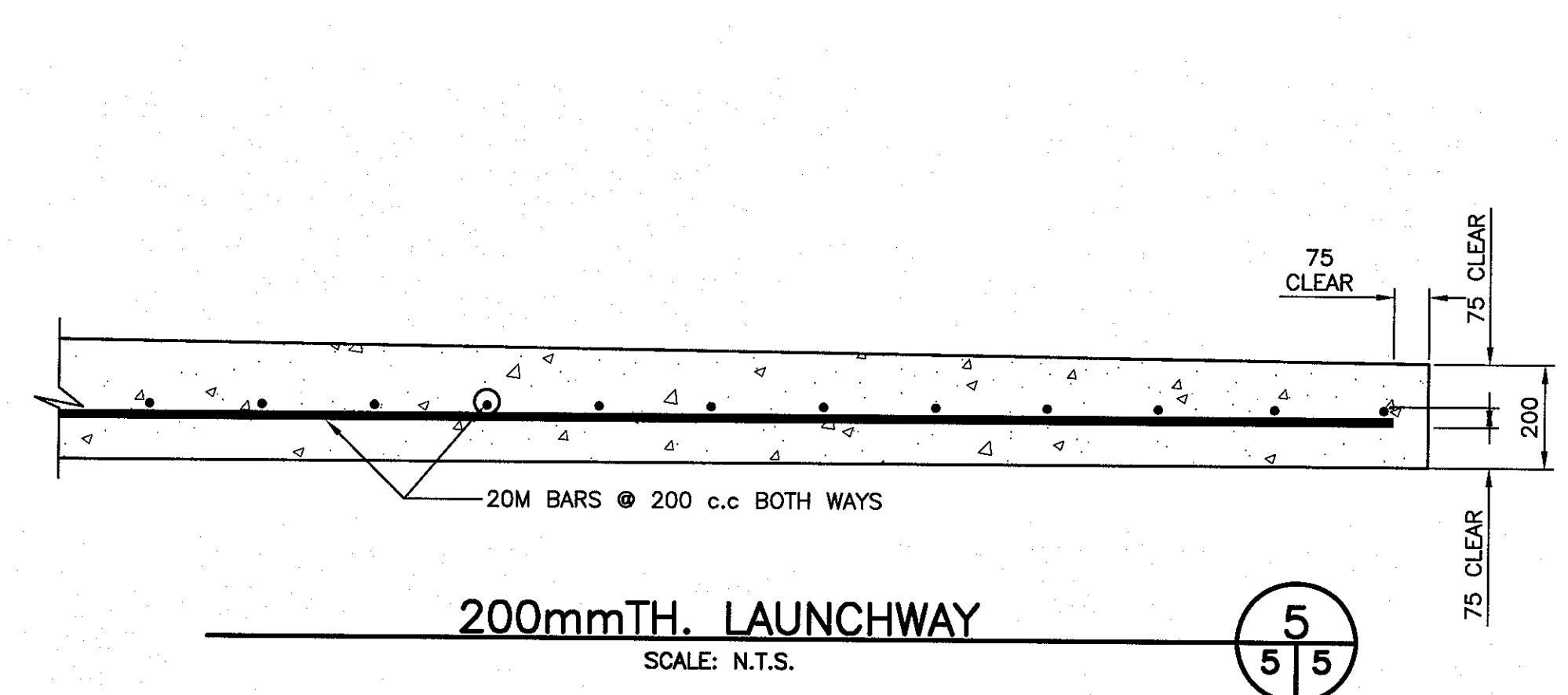
SECTION - LAUNCHWAY  
SCALE: 1:40  
2/45



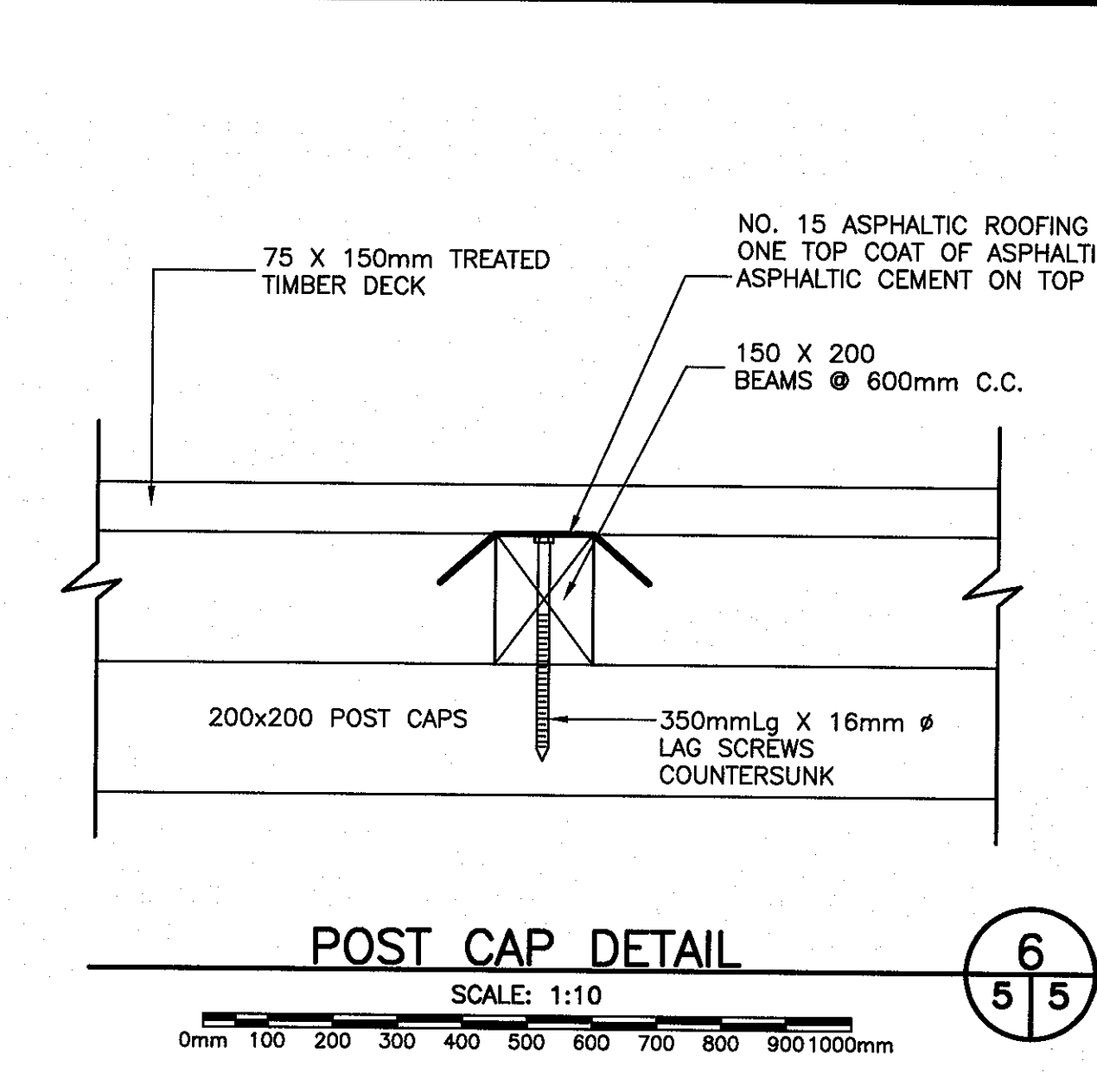
SECTION - TRANSVERSE  
SCALE: 1:40  
3/45



POST CONNECTION DETAIL  
SCALE: 1:10  
4/55



200mmTH. LAUNCHWAY  
SCALE: N.T.S.  
5/55



POST CAP DETAIL  
SCALE: 1:10  
6/55

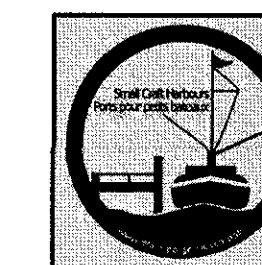
C	ISSUED FOR TENDER	6/8/19
B	ISSUED FOR 99% REVIEW	2/28/19
A	ISSUED FOR REVIEW	2/12/19
revisions		date
project		project

SLIPWAY RECONSTRUCTION  
HERMITAGE, NL

NEW WORK - WORK AREA A

designed N.H.	conou
date	JUNE 6, 2019
drawn	P.H.
date	JUNE 6, 2019
approved	approve
Tender	Paul Curran
DFO Project Manager	
project number	721935
drawing no.	C5

SMALL CRAFT HARBOURS

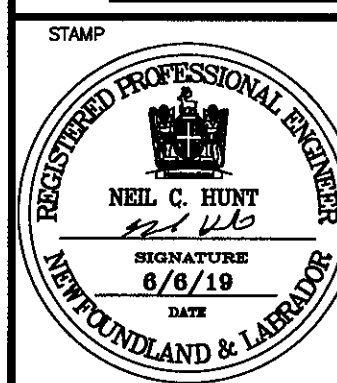


NOTES:

1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
This Permit Allows  
AFN ENGINEERING INC.

To practice Professional Engineering  
in Newfoundland and Labrador  
Permit No. as issued by APBENL 20202.  
which is valid for the year 2019.



C	ISSUED FOR TENDER	6/6/19
B	ISSUED FOR 90% REVIEW	2/28/19
A	ISSUED FOR REVIEW	2/12/19
revisions		date
project		project

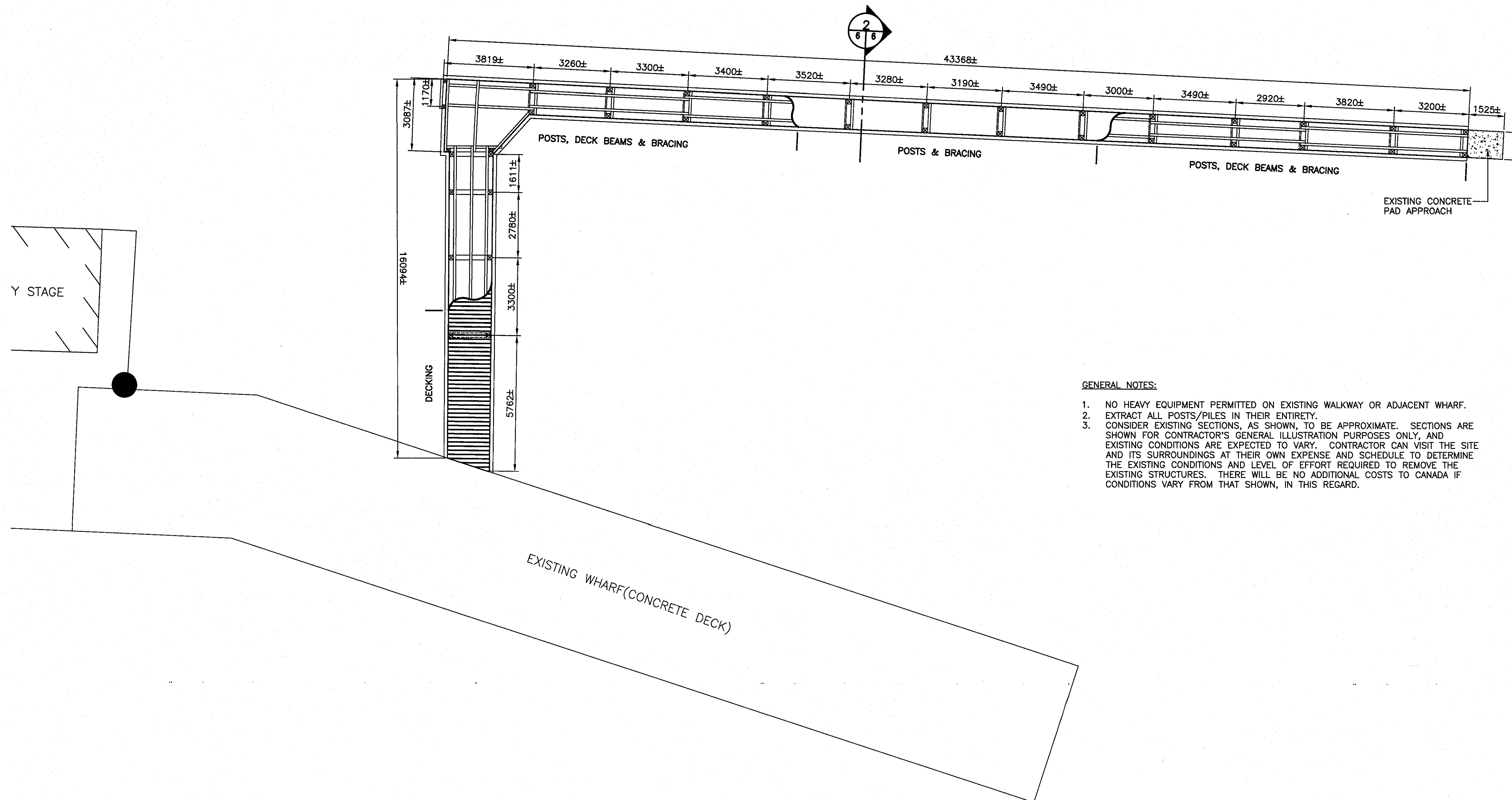
SLIPWAY  
RECONSTRUCTION  
HERMITAGE, NL

DEMOLITION -  
WORK AREA B

designed N.H. concu  
date JUNE 6, 2019  
drawn P.H. dessine  
date JUNE 6, 2019  
approved

Tender Paul Osone Submission  
DFO Project Manager  
project number 721935 no. du projet

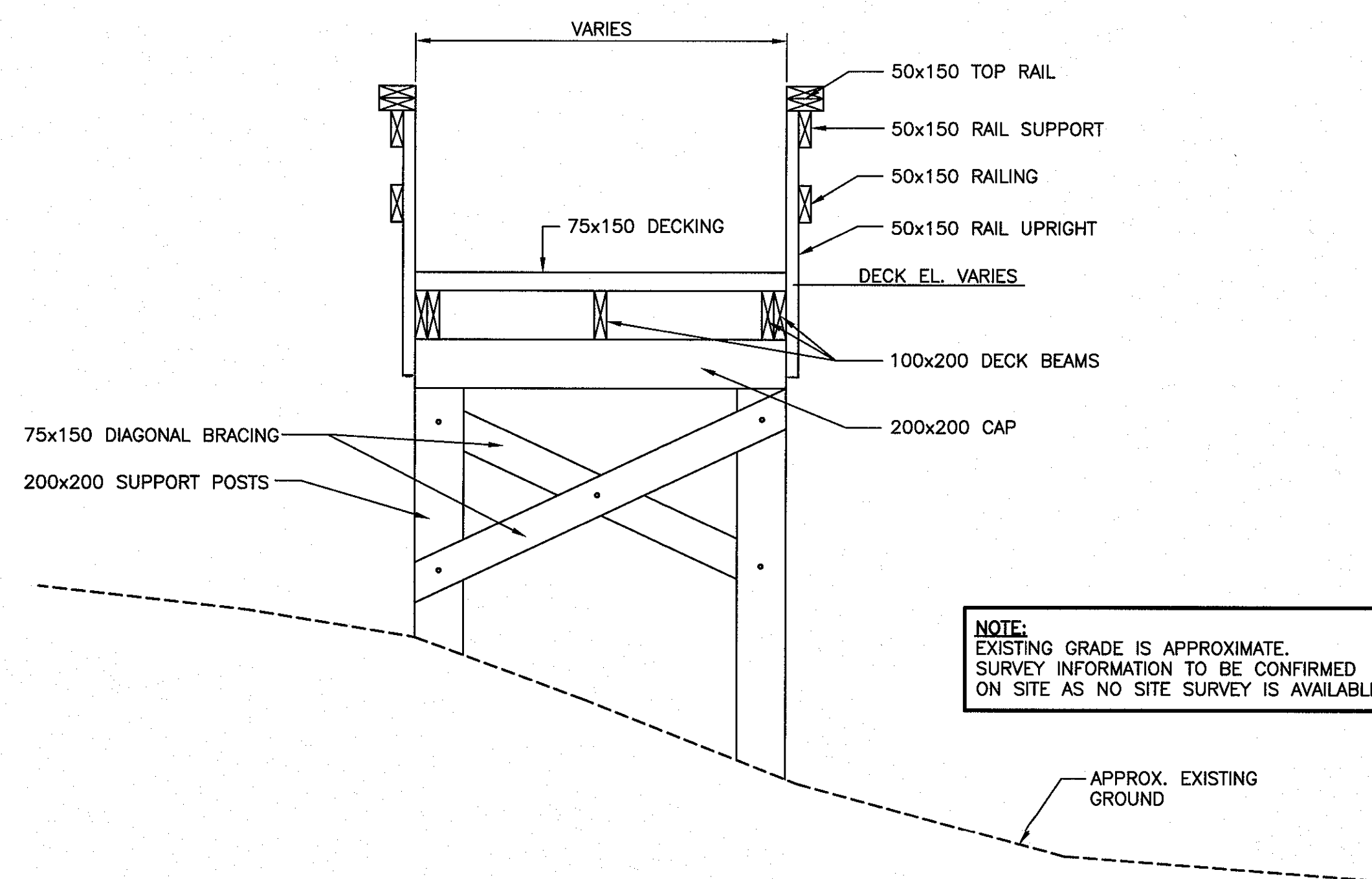
drawing no. C6 no. du dessin



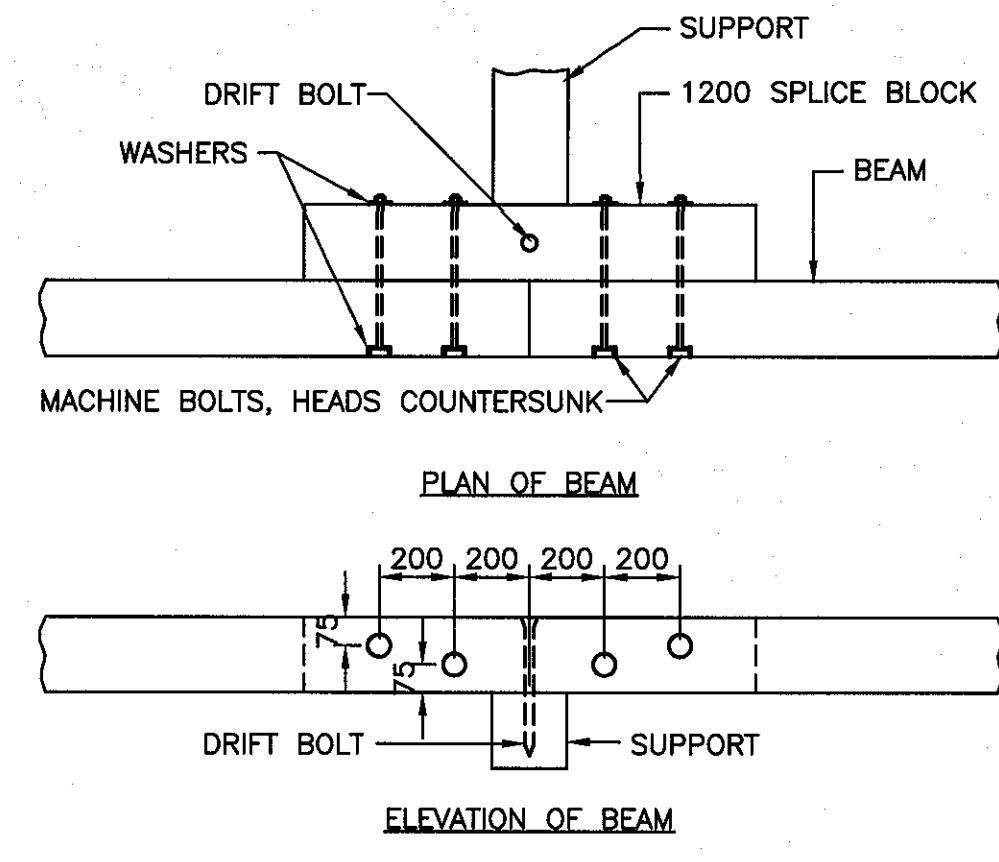
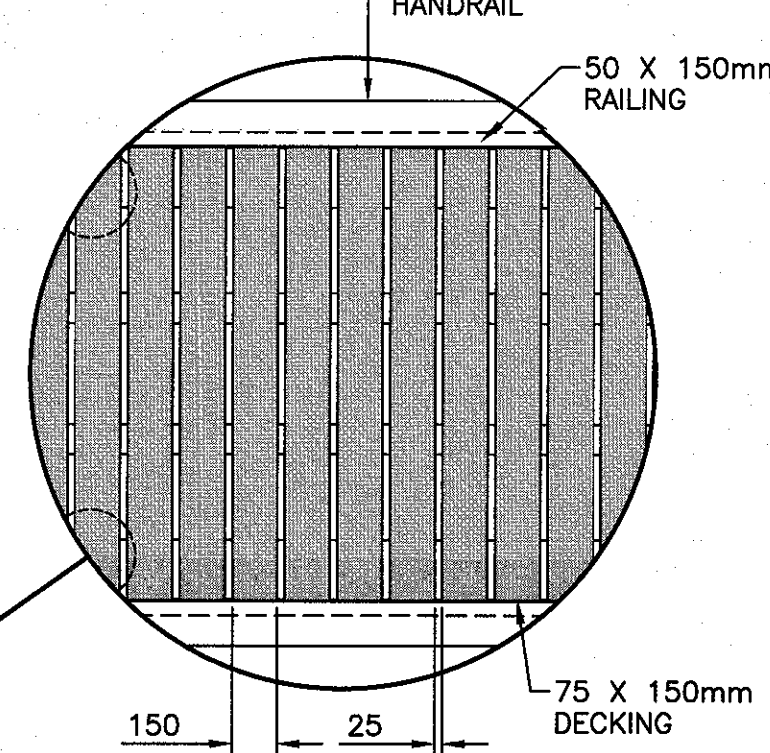
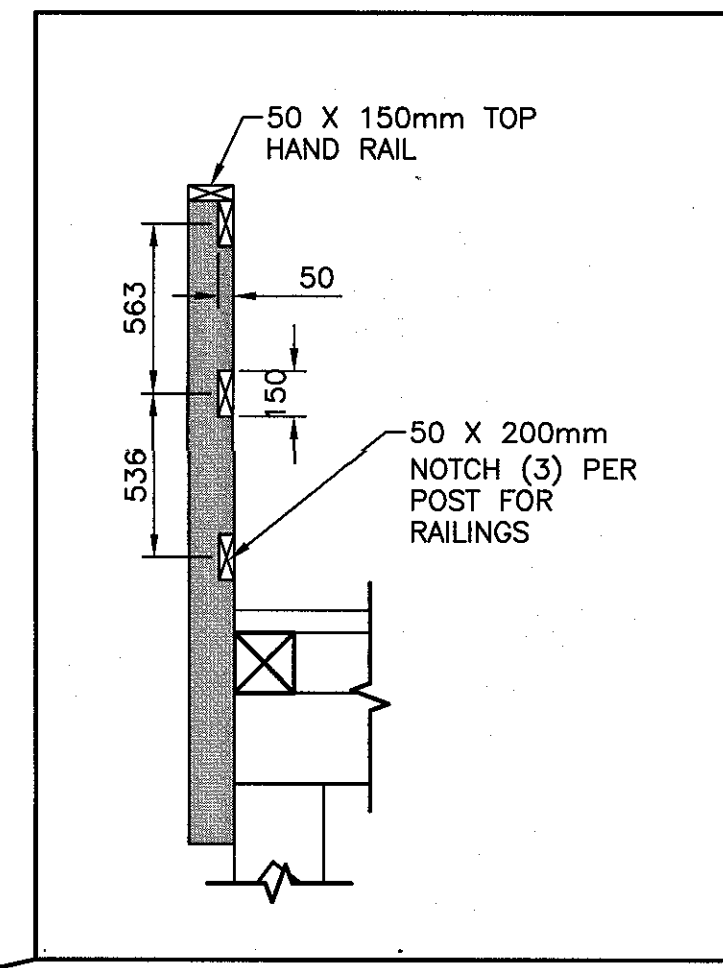
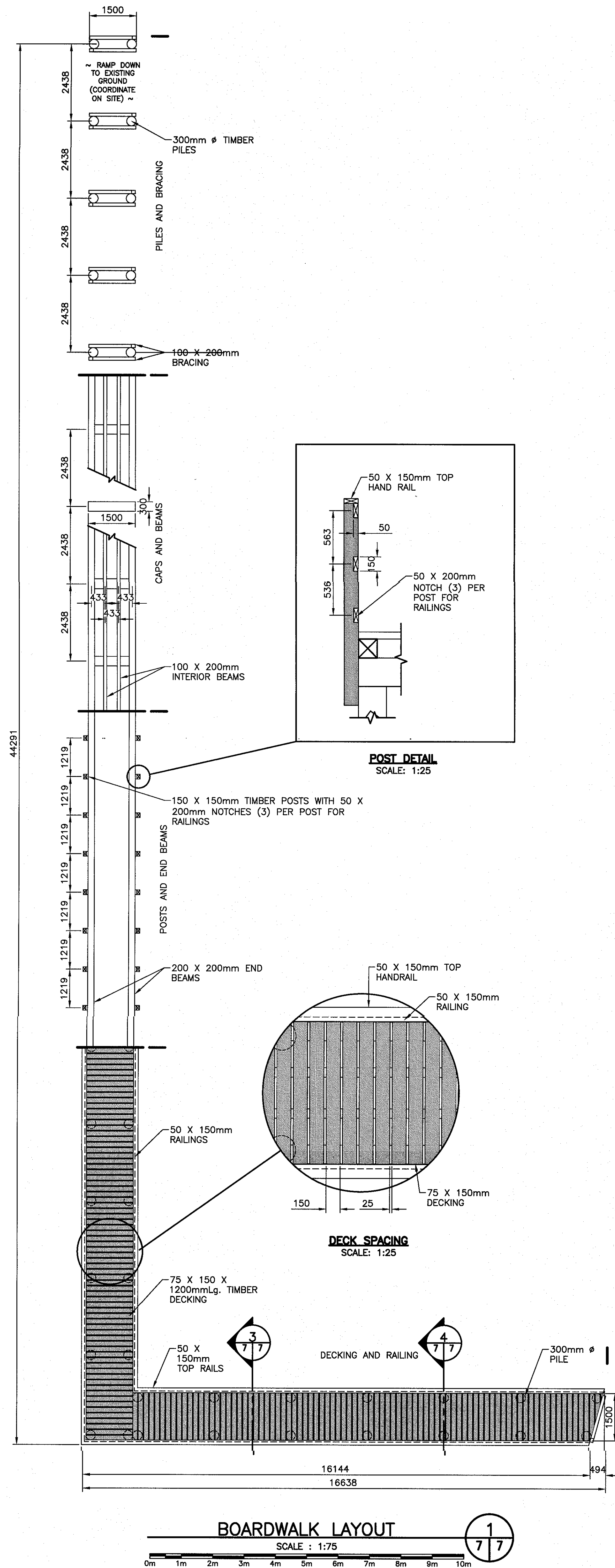
GENERAL NOTES:

1. NO HEAVY EQUIPMENT PERMITTED ON EXISTING WALKWAY OR ADJACENT WHARF.
2. EXTRACT ALL POSTS/PILES IN THEIR ENTIRETY.
3. CONSIDER EXISTING SECTIONS, AS SHOWN, TO BE APPROXIMATE. SECTIONS ARE SHOWN FOR CONTRACTOR'S GENERAL ILLUSTRATION PURPOSES ONLY, AND EXISTING CONDITIONS ARE EXPECTED TO VARY. CONTRACTOR CAN VISIT THE SITE AND ITS SURROUNDINGS AT THEIR OWN EXPENSE AND SCHEDULE TO DETERMINE THE EXISTING CONDITIONS AND LEVEL OF EFFORT REQUIRED TO REMOVE THE EXISTING STRUCTURES. THERE WILL BE NO ADDITIONAL COSTS TO CANADA IF CONDITIONS VARY FROM THAT SHOWN, IN THIS REGARD.

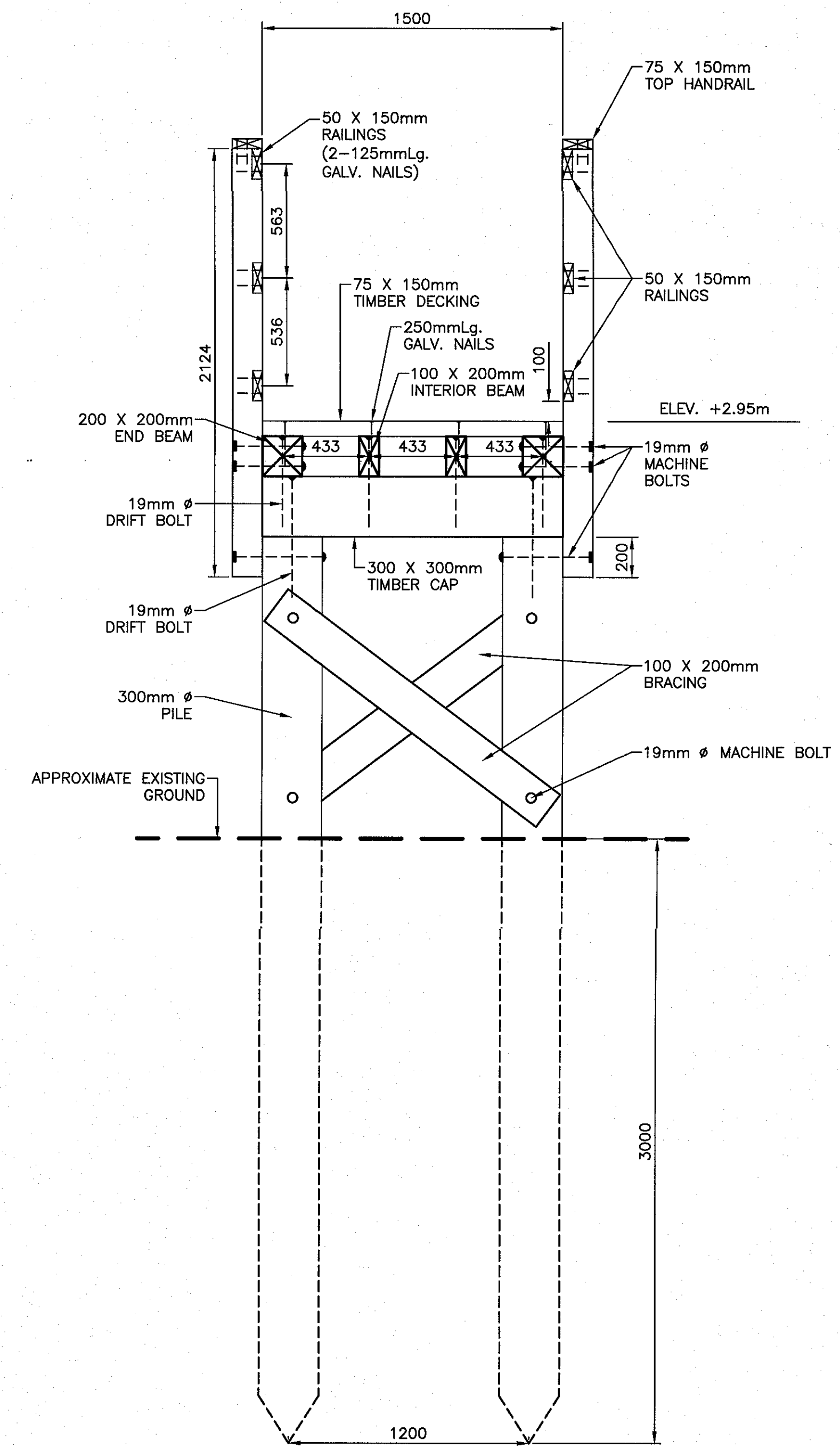
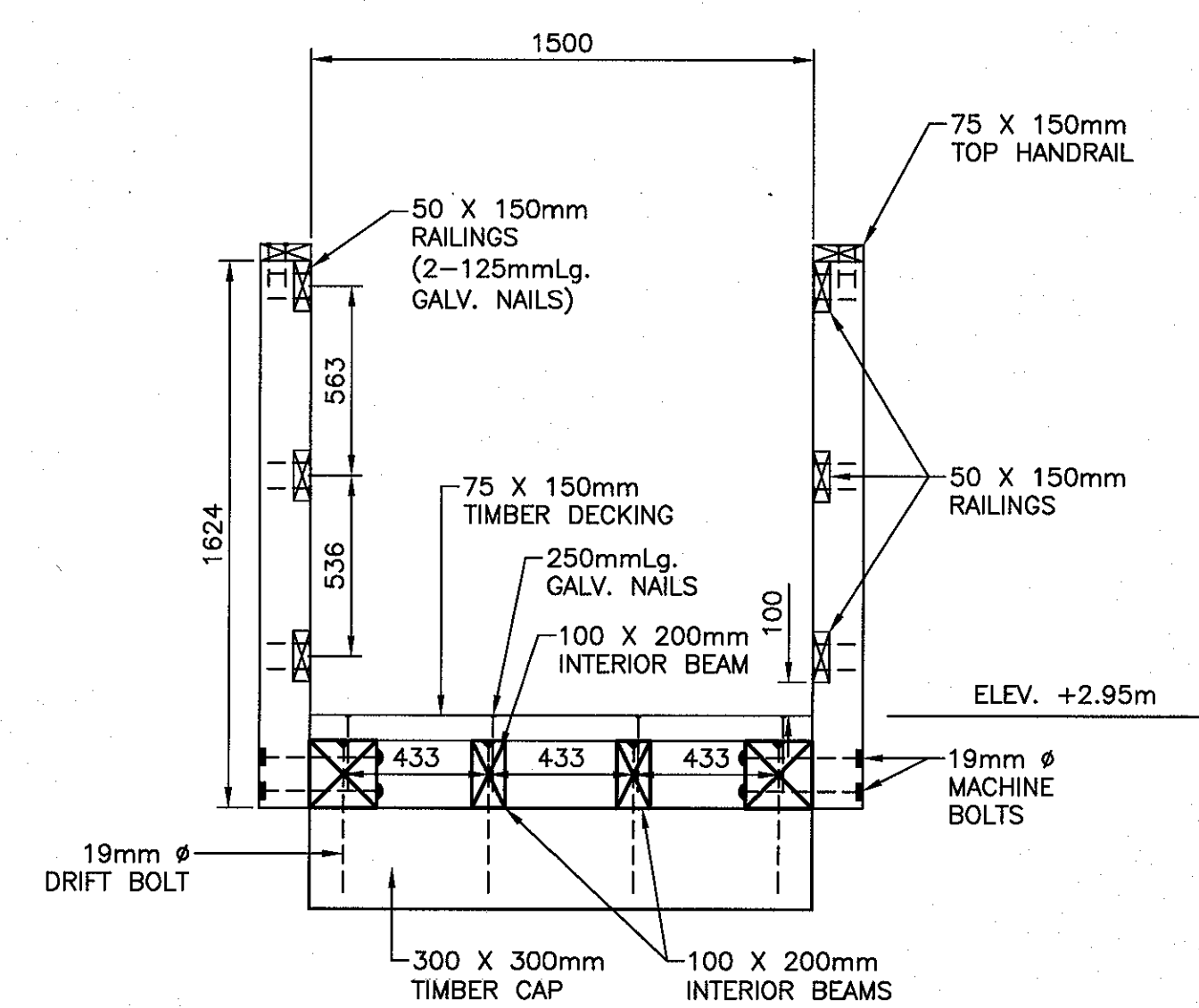
DEMOLITION PLAN - BOARDWALK 1/66  
SCALE : N.T.S.



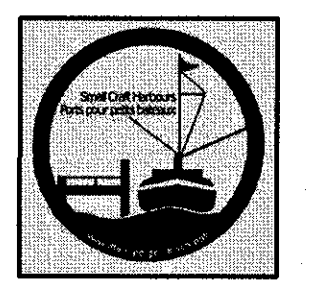
DEMOLITION - BOARDWALK 2/66  
SCALE : N.T.S.



NOTE:  
1. CONSIDER SPLICING DETAILS AS APPROXIMATE. COORDINATE WITH THE DEPARTMENTAL REPRESENTATIVE WHILE IN THE FIELD. ALL SPLICES TO BE MADE AT PILE CAP LOCATIONS.

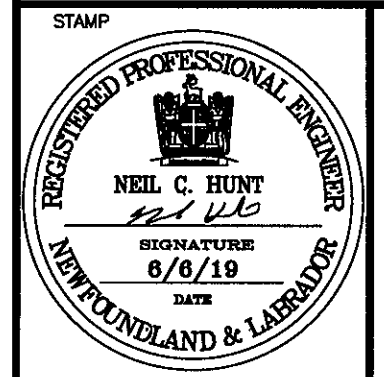


SMALL CRAFT HARBOURS



NOTES:  
1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.  
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
This Permit Allows  
APN ENGINEERING INC.  
To practice Professional Engineering in Newfoundland and Labrador, Permit No. as issued by APREG, 20092, which is valid for the year 2019.



C	ISSUED FOR TENDER	6/6/19
B	ISSUED FOR 90% REVIEW	2/28/19
A	ISSUED FOR REVIEW	2/12/19
revisions		date

SLIPWAY RECONSTRUCTION  
HERMITAGE, NL

NEW WORK - WORK AREA B

designed	N.H.	constr
date	JUNE 6, 2019	
drawn	P.H.	designe
date	JUNE 6, 2019	
approved		approve
Tender	Paul Curran	Scourmission
DFO Project Manager		
project number	721935	no. du projet
drawing no.	C7	no. du dessin