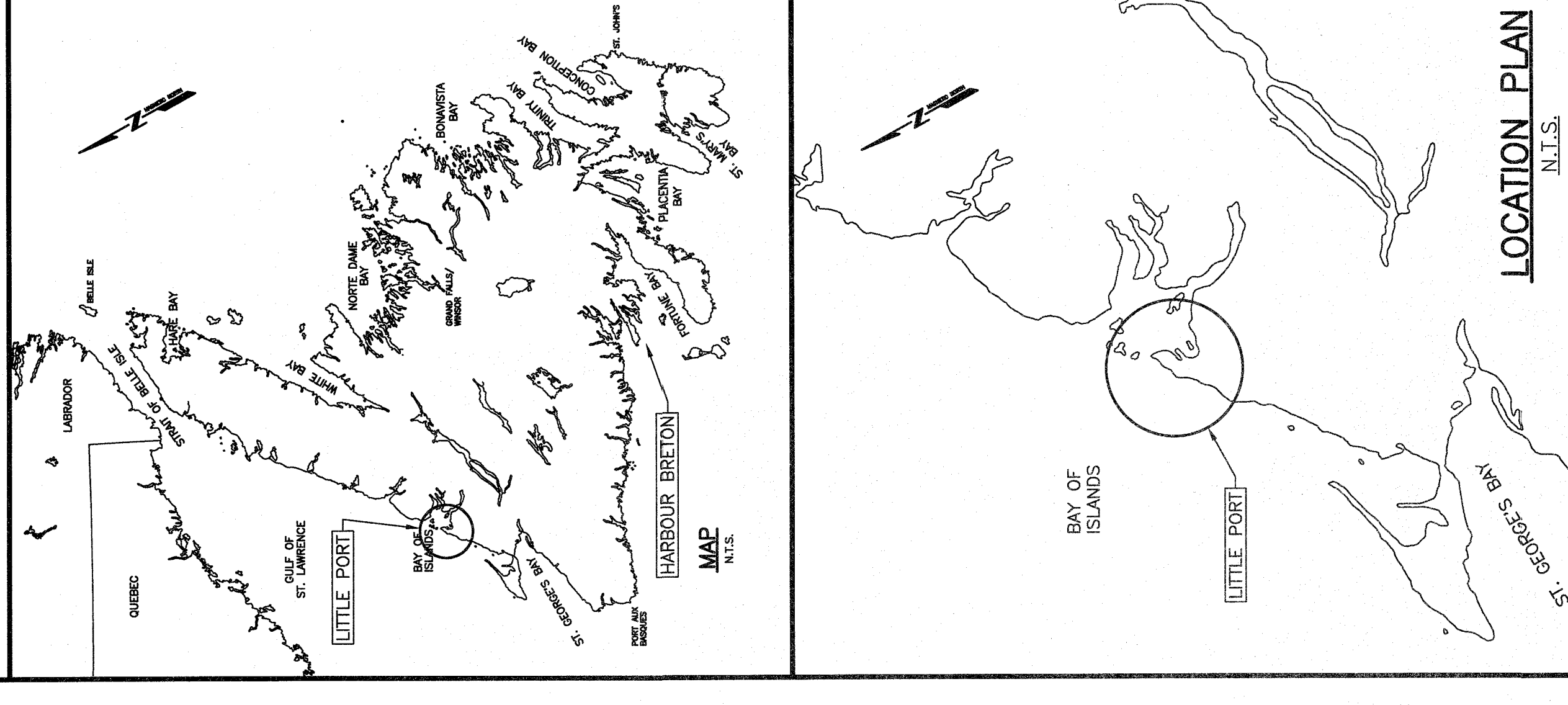


FISHERIES AND OCEANS  
CANADA

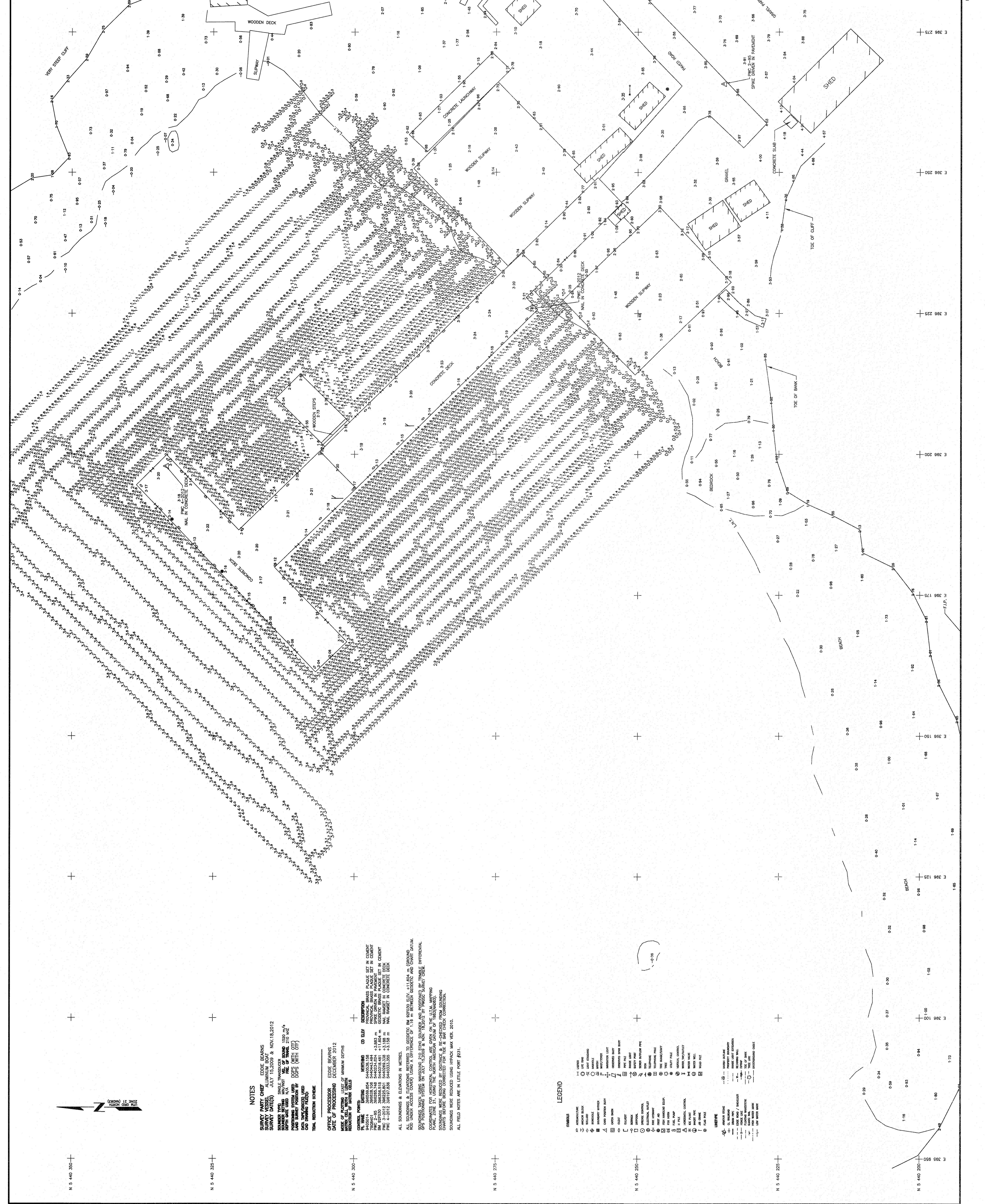
**WHARF STEM RECONSTRUCTION  
LITTLE PORT  
NEWFOUNDLAND AND LABRADOR  
PROJECT No. 719945**

SMALL CRAFT HARBOURS



**LIST OF DRAWINGS:**

C1	OF	7	SOUNDING AND TOPOGRAPHIC SURVEY
C2	OF	7	DEMOLITION PLAN
C3	OF	7	NEW SITE PLAN
C4	OF	7	WHARF LAYOUT AND PLAN
C5	OF	7	ELEVATIONS
C6	OF	7	SECTION
C7	OF	7	DETAILS



ISSUED FOR TENDER 31/01/16  
ISSUED FOR REVIEW 16/02/16

PROJECT  
WHARF STEM  
RECONSTRUCTION  
LITTLE PORT, NL

DRAWING  
SOUNDING AND  
TOPOGRAPHIC SURVEY

DESIGNED P.H.  
DATE JANUARY 31, 2016  
DRAWN N.H.  
DATE JANUARY 31, 2016  
APPROVED [Signature]  
DATE JANUARY 31, 2016

PROJECT NUMBER  
719945  
NO. OF SHEETS  
C1

EDRM Document No.

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

**OFFICE PROCESSOR**  
EDDIE BEARNS  
DECEMBER 2012  
DATE OF PROCESSING

**MADE UP FROM**  
LIST OF FINAL DEPTHS  
RECONSTRUCTION OF WHARF

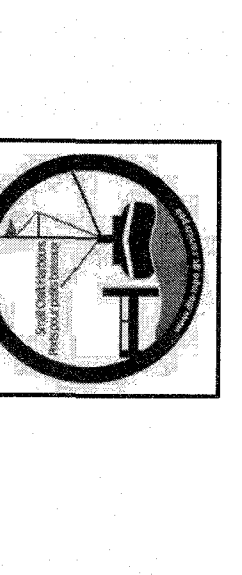
**CONTROL POINTS**

NO.	DESCRIPTION	COORDINATES
1	CONCRETE BRASS PLAZER SET IN CONCREIT	442011.0 442011.0
2	CONCRETE BRASS PLAZER SET IN CONCREIT	442011.0 442011.0
3	CONCRETE BRASS PLAZER SET IN CONCREIT	442011.0 442011.0

ALL SOUNDINGS & ELEVATIONS IN METRES.  
RED SOUNDINGS REFERRED TO GEODETIC BM 69220 ELEV. +11.624 m (GROUND).  
RED UNDER ACHES COVERD) USING A DIFFERENCE OF 1.16 m BETWEEN GEODETIC AND CHART DATUM.  
SOUNDINGS TAKEN USING LEICA TOTAL STATION, AND POSITIVED BY TRIPLE DIFFERENTIAL  
GPS/INS. THE PROJECTIONS USED ARE NAD 83. THE DATUM IS THE GENUINE MEAN SEA LEVEL DATUM OF  
PLATE 220E 21, USING THE NORTH AMERICAN DATUM OF 1983 (NAD 83).  
SOUNDINGS WERE TAKEN USING HYDRO MAX VERT. 2010.  
ALL FIELD NOTES ARE IN LITTLE PORT #231.

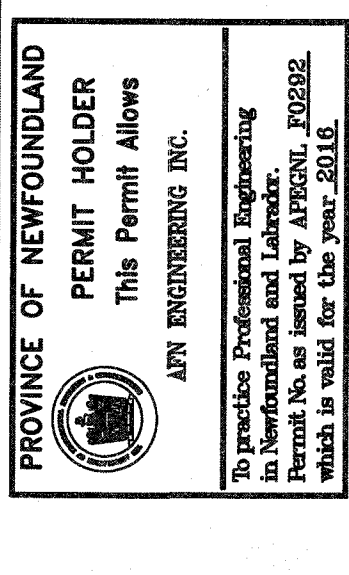
**LEGEND**

- SYMBOLS**
- (1) ANCHORAGE
  - (2) BUOY
  - (3) LIGHT HOUSE
  - (4) LIGHT
  - (5) LIGHT TOWER
  - (6) LIGHT BELL
  - (7) LIGHT BUOY
  - (8) LIGHT POST
  - (9) LIGHT CANTON
  - (10) LIGHT PLATFORM
  - (11) LIGHT PLATFORM
  - (12) LIGHT PLATFORM
  - (13) LIGHT PLATFORM
  - (14) LIGHT PLATFORM
  - (15) LIGHT PLATFORM
  - (16) LIGHT PLATFORM
  - (17) LIGHT PLATFORM
  - (18) LIGHT PLATFORM
  - (19) LIGHT PLATFORM
  - (20) LIGHT PLATFORM
  - (21) LIGHT PLATFORM
  - (22) LIGHT PLATFORM
  - (23) LIGHT PLATFORM
  - (24) LIGHT PLATFORM
  - (25) LIGHT PLATFORM
  - (26) LIGHT PLATFORM
  - (27) LIGHT PLATFORM
  - (28) LIGHT PLATFORM
  - (29) LIGHT PLATFORM
  - (30) LIGHT PLATFORM
  - (31) LIGHT PLATFORM
  - (32) LIGHT PLATFORM
  - (33) LIGHT PLATFORM
  - (34) LIGHT PLATFORM
  - (35) LIGHT PLATFORM
  - (36) LIGHT PLATFORM
  - (37) LIGHT PLATFORM
  - (38) LIGHT PLATFORM
  - (39) LIGHT PLATFORM
  - (40) LIGHT PLATFORM
  - (41) LIGHT PLATFORM
  - (42) LIGHT PLATFORM
  - (43) LIGHT PLATFORM
  - (44) LIGHT PLATFORM
  - (45) LIGHT PLATFORM
  - (46) LIGHT PLATFORM
  - (47) LIGHT PLATFORM
  - (48) LIGHT PLATFORM
  - (49) LIGHT PLATFORM
  - (50) LIGHT PLATFORM
  - (51) LIGHT PLATFORM
  - (52) LIGHT PLATFORM
  - (53) LIGHT PLATFORM
  - (54) LIGHT PLATFORM
  - (55) LIGHT PLATFORM
  - (56) LIGHT PLATFORM
  - (57) LIGHT PLATFORM
  - (58) LIGHT PLATFORM
  - (59) LIGHT PLATFORM
  - (60) LIGHT PLATFORM
  - (61) LIGHT PLATFORM
  - (62) LIGHT PLATFORM
  - (63) LIGHT PLATFORM
  - (64) LIGHT PLATFORM
  - (65) LIGHT PLATFORM
  - (66) LIGHT PLATFORM
  - (67) LIGHT PLATFORM
  - (68) LIGHT PLATFORM
  - (69) LIGHT PLATFORM
  - (70) LIGHT PLATFORM
  - (71) LIGHT PLATFORM
  - (72) LIGHT PLATFORM
  - (73) LIGHT PLATFORM
  - (74) LIGHT PLATFORM
  - (75) LIGHT PLATFORM
  - (76) LIGHT PLATFORM
  - (77) LIGHT PLATFORM
  - (78) LIGHT PLATFORM
  - (79) LIGHT PLATFORM
  - (80) LIGHT PLATFORM
  - (81) LIGHT PLATFORM
  - (82) LIGHT PLATFORM
  - (83) LIGHT PLATFORM
  - (84) LIGHT PLATFORM
  - (85) LIGHT PLATFORM
  - (86) LIGHT PLATFORM
  - (87) LIGHT PLATFORM
  - (88) LIGHT PLATFORM
  - (89) LIGHT PLATFORM
  - (90) LIGHT PLATFORM
  - (91) LIGHT PLATFORM
  - (92) LIGHT PLATFORM
  - (93) LIGHT PLATFORM
  - (94) LIGHT PLATFORM
  - (95) LIGHT PLATFORM
  - (96) LIGHT PLATFORM
  - (97) LIGHT PLATFORM
  - (98) LIGHT PLATFORM
  - (99) LIGHT PLATFORM
  - (100) LIGHT PLATFORM



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

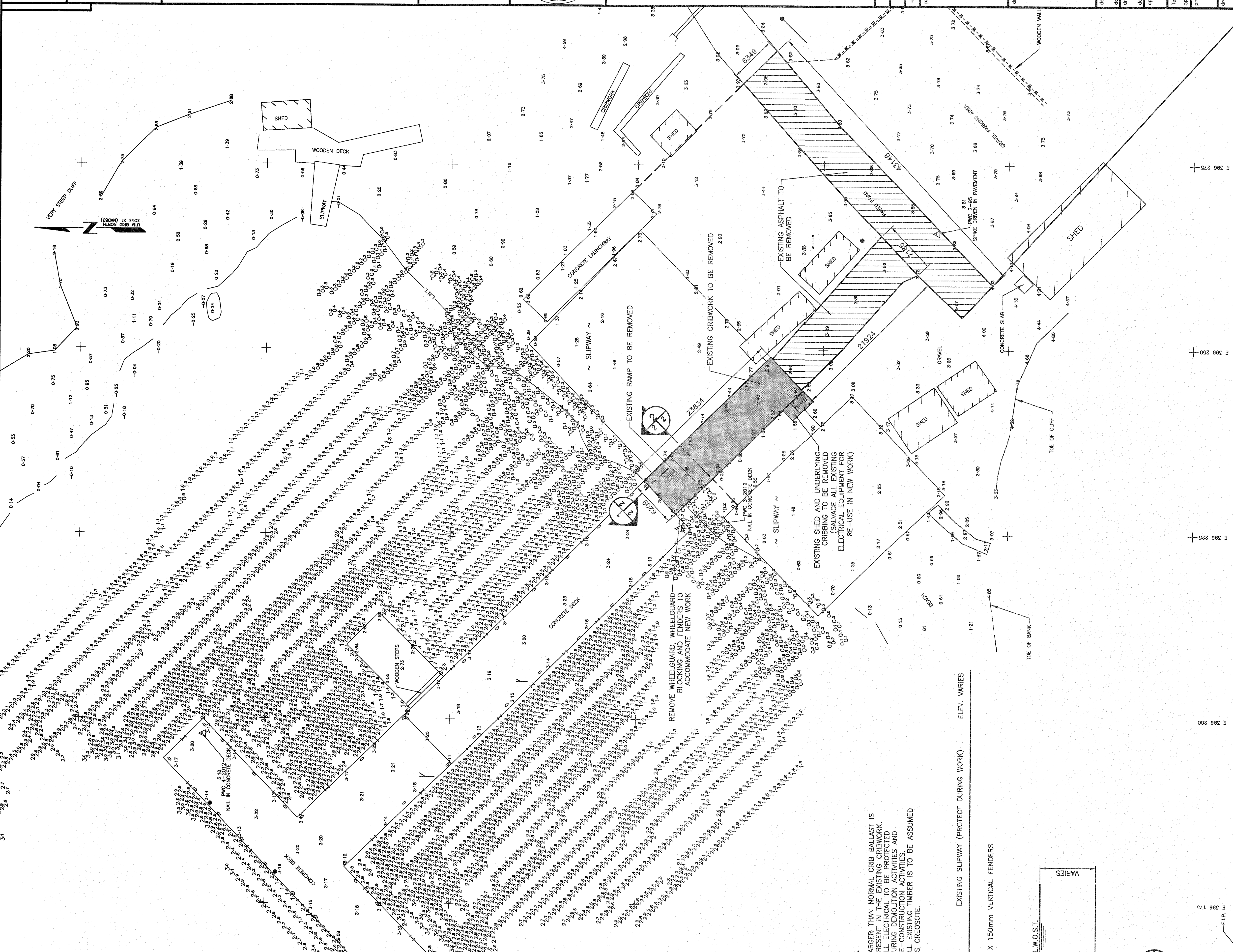
**PROVINCE OF NEWBRUNSWICK**  
**PERMIT HOLDER**  
 This Permit Allows  
**JAY ENGINEERING INC.**  
 To practice Professional Engineering in New Brunswick and Labrador. This Permit is issued by APPEL, 2108B, Main Street, St. John's, NL A1B 4X6.



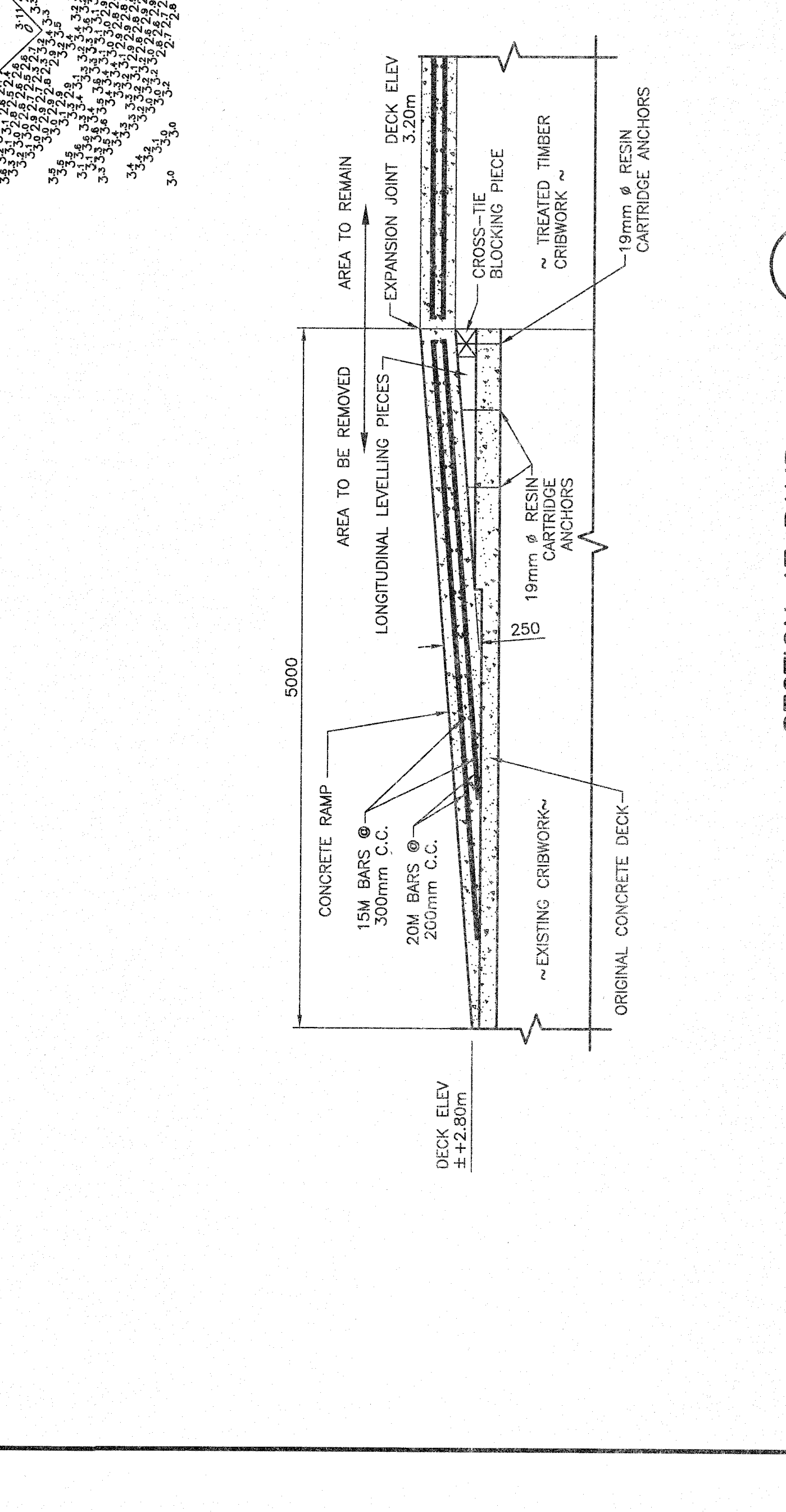
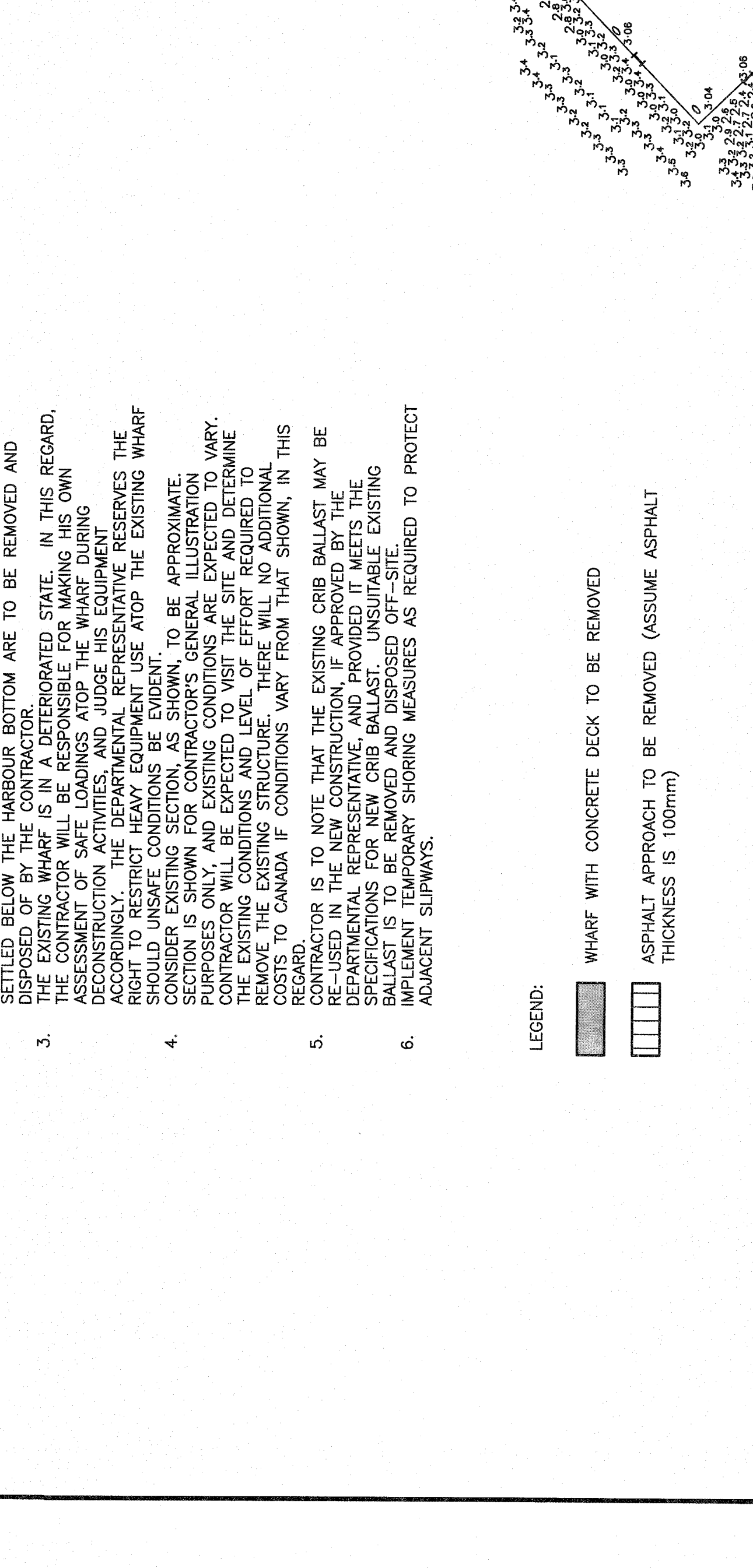
ISSUED FOR TENDER 31/01/16  
 ISSUED FOR REVIEW 10/01/16  
 date  
 project  
**WHARF STEM RECONSTRUCTION**  
**LITTLE PORT, NL**

DESIGNED P.H. [Signature]  
 date JANUARY 31, 2016  
 drawn N.H.  
 date JANUARY 31, 2016  
 approved [Signature]  
 no. du projet 719945  
 no. du dessin C2

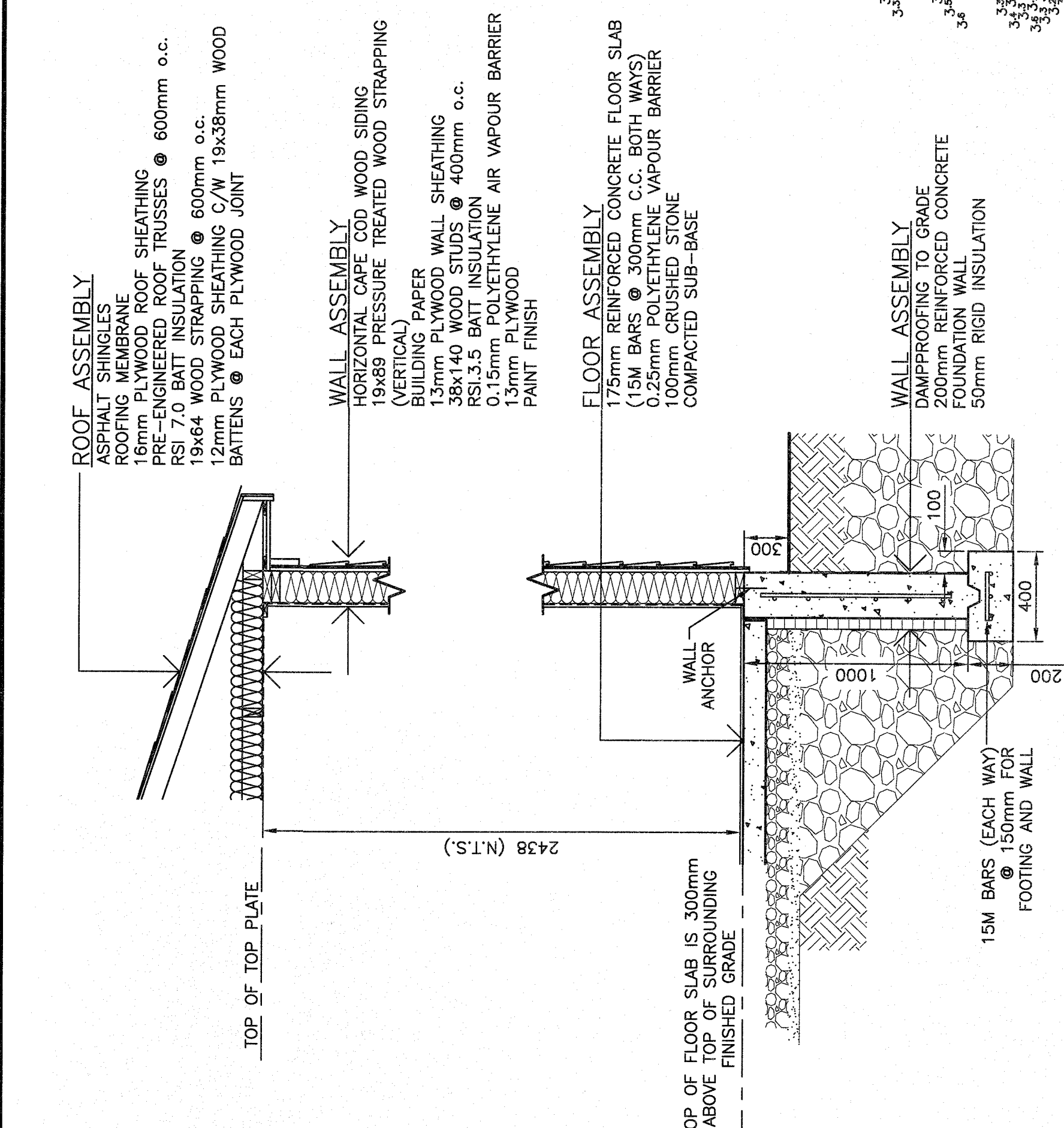
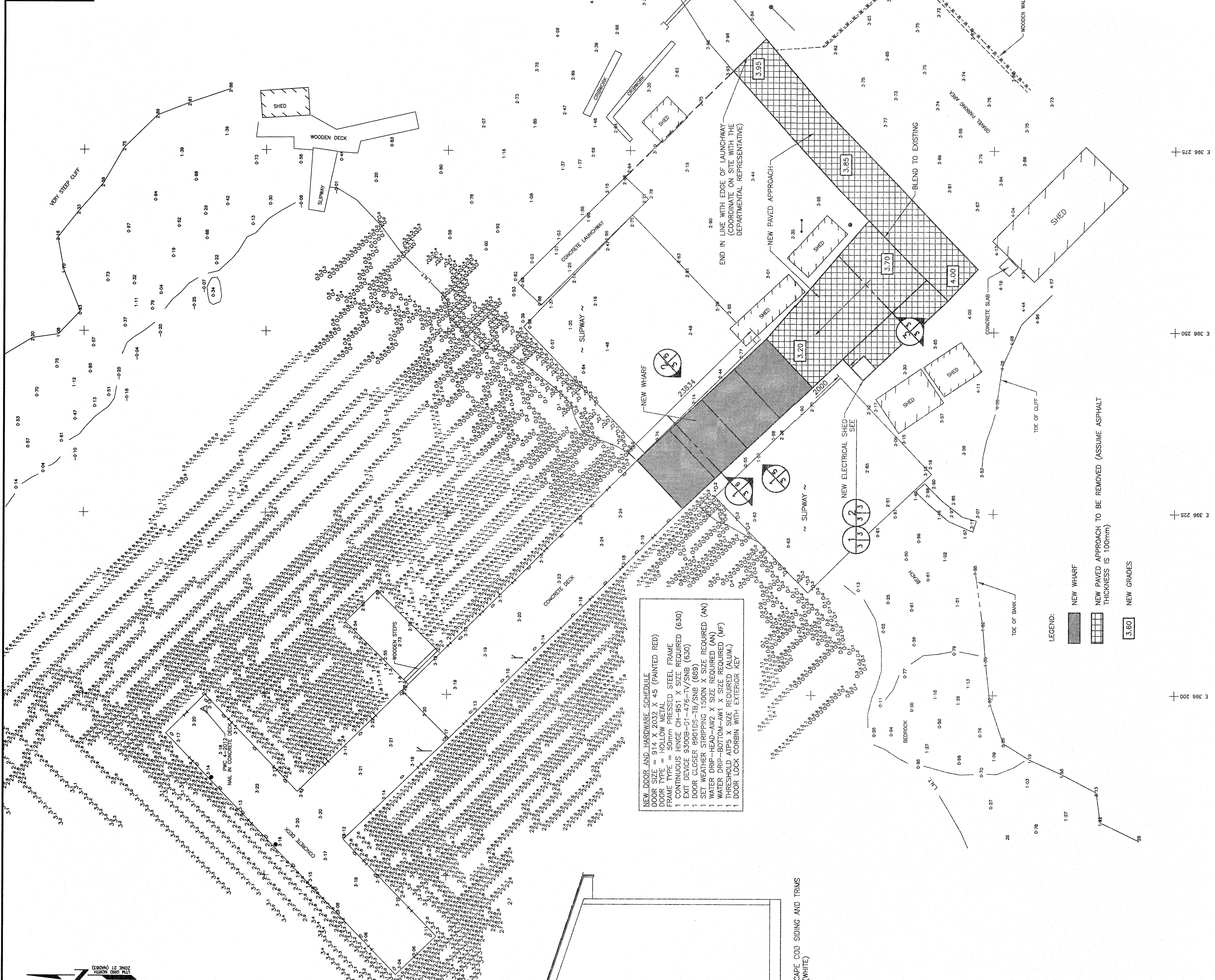
**DEMOLITION PLAN**



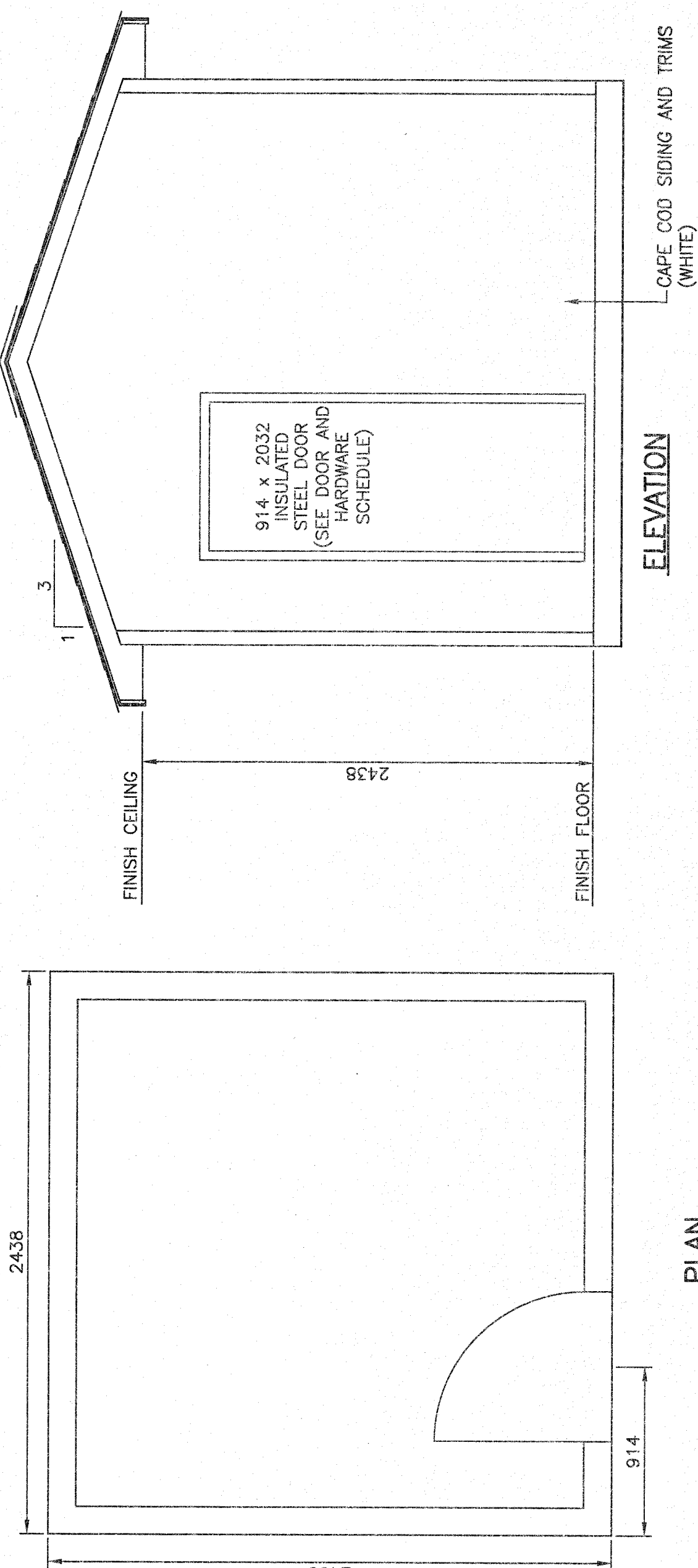
**GENERAL NOTES:**  
 1. ALL DIMENSIONS IN MILLIMETRES. ALL ELEVATIONS IN METRES.  
 2. ALL DIMENSIONS OUTSIDE THE FOOTPRINT OF THE EXISTING WHARF OR SETTLED BELOW THE HARBOUR BOTTOM ARE TO BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.  
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING HIS OWN ASSESSMENT OF SAFE LOADINGS ATOP THE WHARF DURING DECONSTRUCTION ACTIVITIES, AND JUDGE HIS EQUIPMENT RIGHT TO RESTRICT HEAVY EQUIPMENT TO THE EXISTING WHARF SHOULD UNSAFE CONDITIONS BE EVIDENT.  
 4. CONSIDER EXISTING SECTION, AS SHOWN, TO BE APPROXIMATE. PHOTO IS SHOWN FOR CONTRACTOR'S GENERAL ILLUSTRATION PURPOSES ONLY. CONTRACTOR WILL BE EXPECTED TO VISIT THE SITE AND DETERMINE THE EXISTING CONDITIONS AND LEVEL OF EFFORT REQUIRED TO REMOVE THE EXISTING STRUCTURE. THERE WILL BE NO ADDITIONAL REGARD TO CANADA IF CONDITIONS VARY FROM THAT SHOWN, IN THIS REGARD.  
 5. CONTRACTOR IS TO NOTE THAT THE EXISTING CRIB BALLAST MAY BE RE-USED IN THE NEW CONSTRUCTION, IF APPROVED BY THE APPROPRIATE AUTHORITIES. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FOR NEW CRIB BALLAST UNSUITABLE EXISTING BALLAST IS TO BE REMOVED AND DISPOSED OFF-SITE.  
 6. IMPLEMENT TEMPORARY SHORING MEASURES AS REQUIRED TO PROTECT ADJACENT SLIPWAYS.



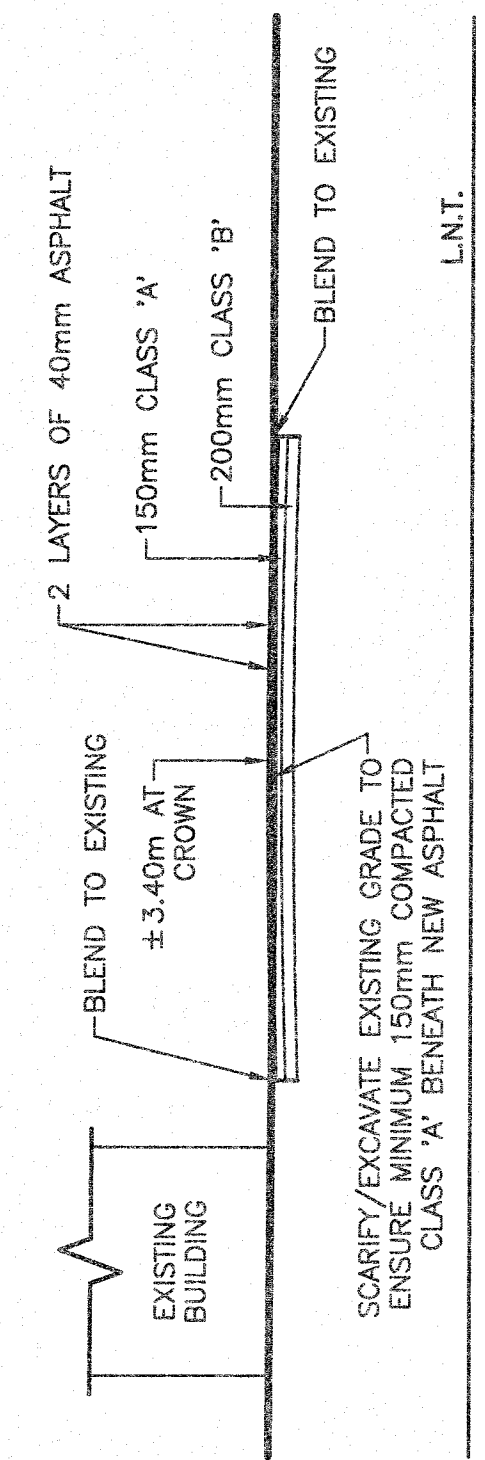
**NOTES:**  
 1. LARGER THAN NORMAL CRIB BALLAST IS PRESENT IN THE EXISTING CRIBWORK.  
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.  
 3. ALL EXISTING TIMBER IS TO BE ASSUMED AS CREOSOTE.



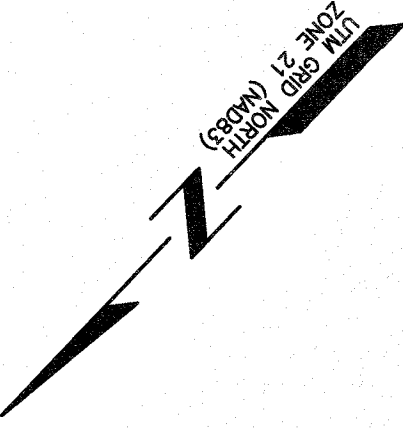
**NEW ELECTRICAL SHED - BUILDING SECTION**  
 SCALE: N.T.S.



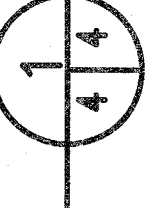
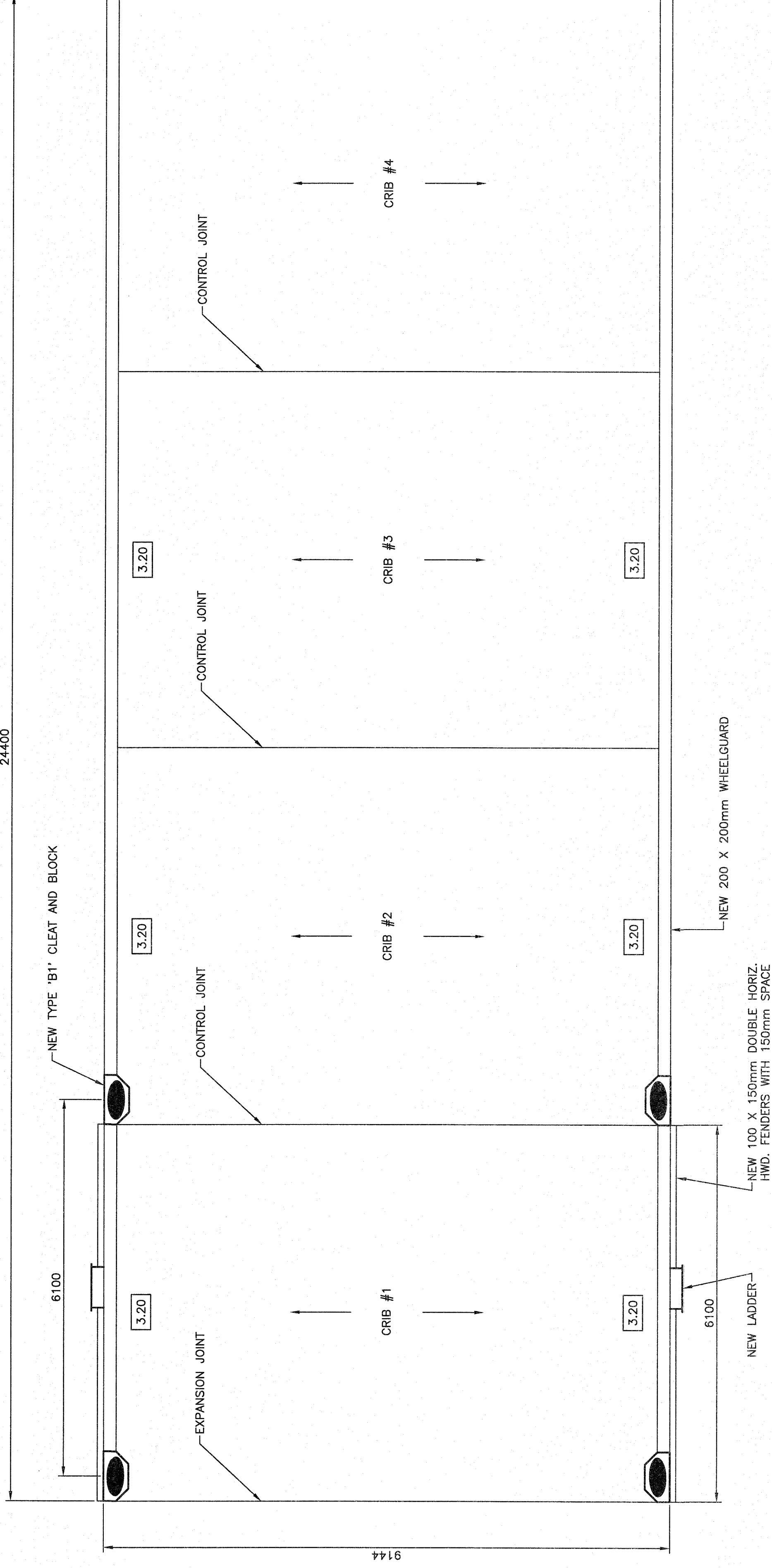
**NEW ELECTRICAL SHED - PLAN & ELEVATION**  
 SCALE: N.T.S.



**SECTION THROUGH PAVED UPLANDS**  
 SCALE: 1:125

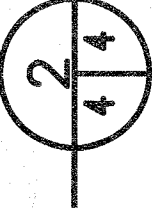
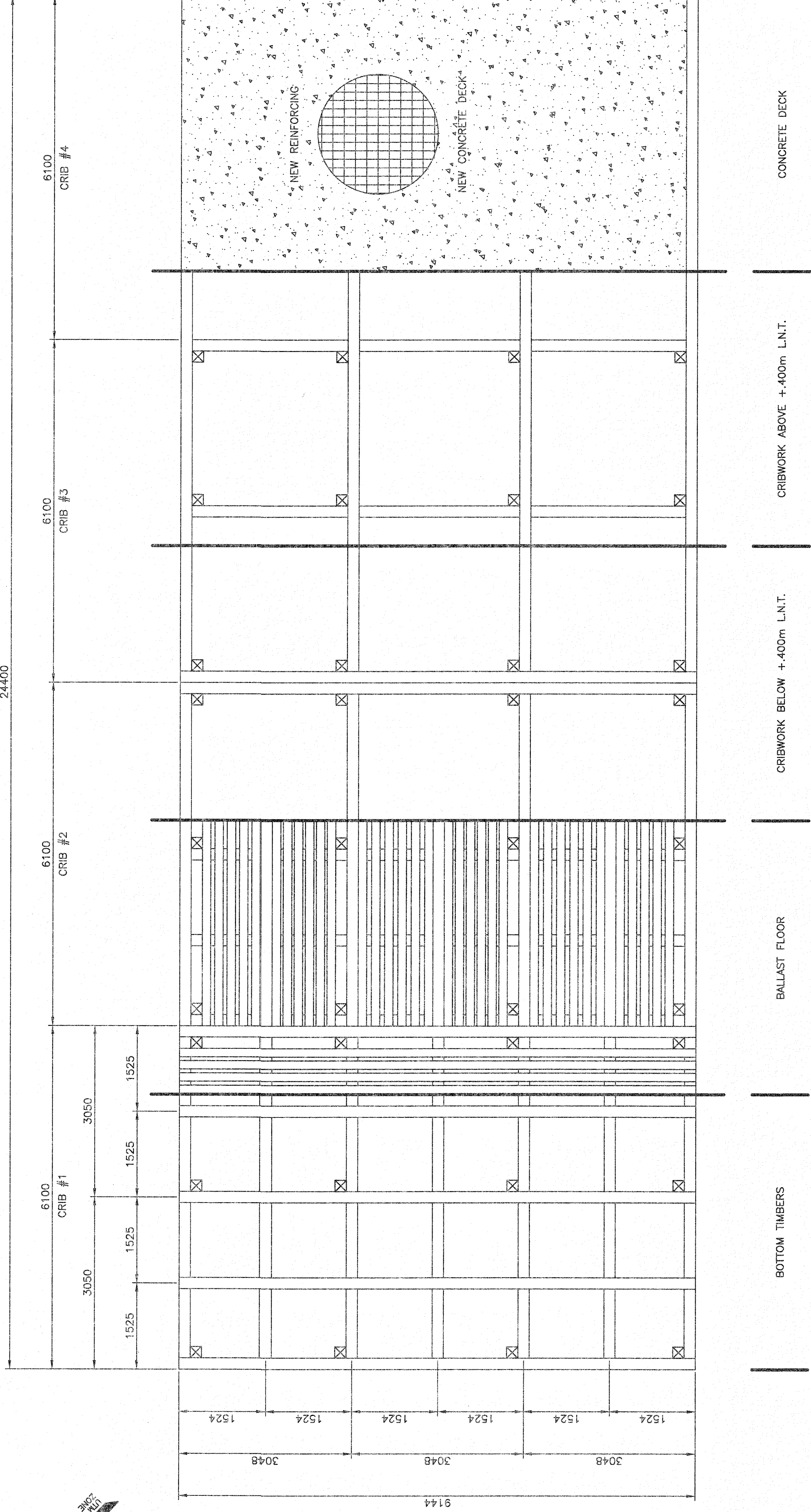
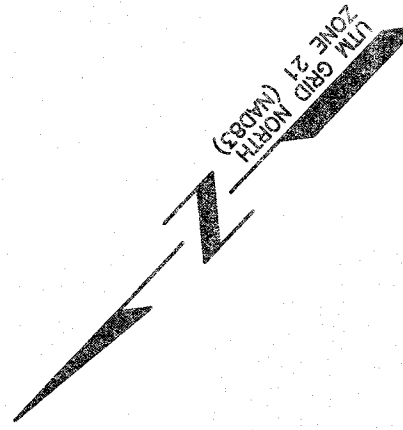


~ EXISTING WHARF ~



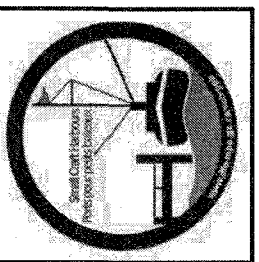
WHARF LAYOUT

SCALE: 1:50



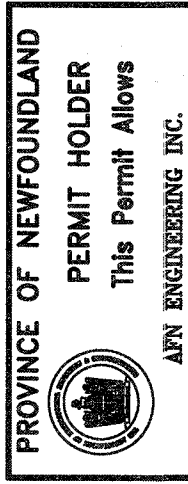
WHARF PLAN

SCALE: 1:50

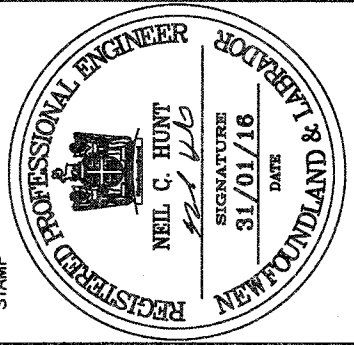


NOTES:

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



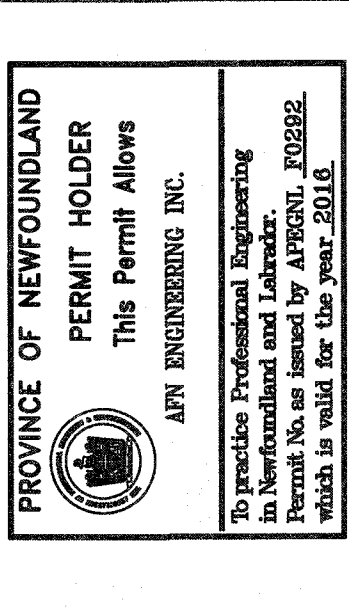
PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
This Permit Allows  
APR ENGINEERING INC.  
To practice Professional Engineering  
in Newfoundland and Labrador.  
Permit No. as issued by APESMA: 208282.  
Permit to issue for: 2016-2022.



ISSUED FOR TENDER	31/01/18
ISSUED FOR REVIEW	19/07/16
revisions	date
project	WHARF STEM RECONSTRUCTION LITTLE PORT, NL
drawing	WHARF LAYOUT AND PLAN
designed P.H.	JANUARY 31, 2016
drawn N.H.	JANUARY 31, 2016
approved	JANUARY 31, 2016
Submitted	
no. du projet	719945
no. du dessin	C4



PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
This Permit Allows  
JAN ENGINEERING INC.  
To practice Professional Engineering  
in Newfoundland and Labrador.  
Permit No. 2016-02-0001  
which is valid for the year 2016.

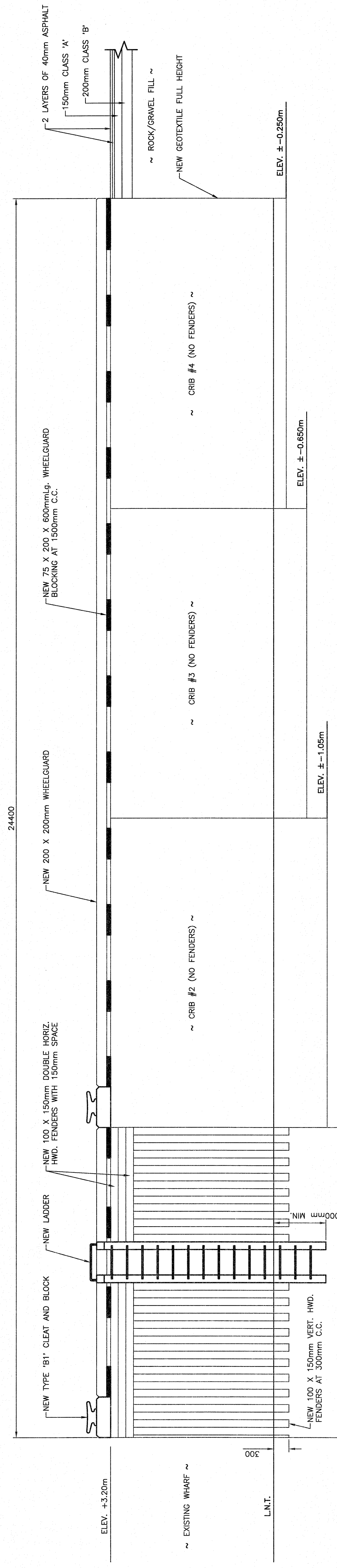


ISSUED FOR TENDER 31/01/16  
ISSUED FOR REVIEW 16/01/16  
revision date  
project

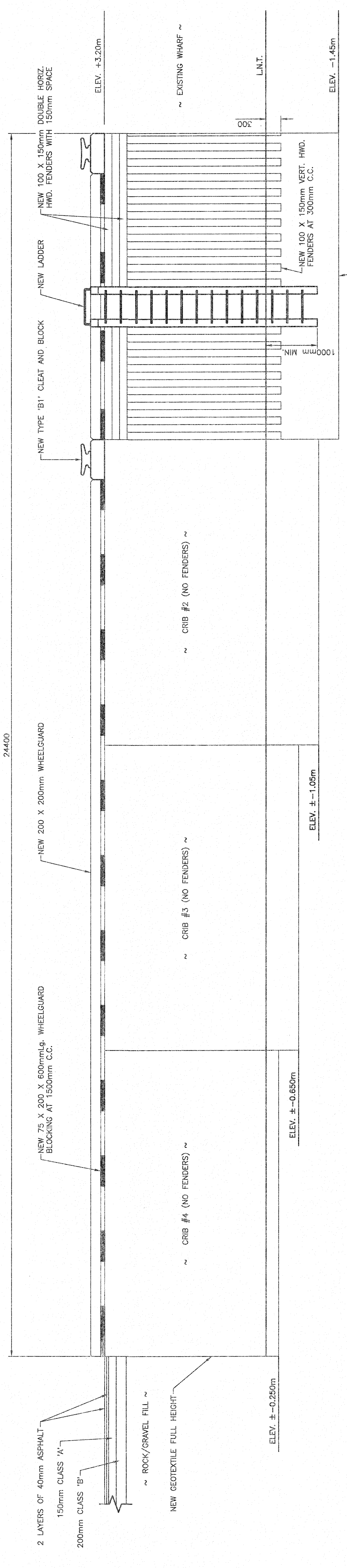
WHARF STEM  
RECONSTRUCTION  
LITTLE PORT, NL

drawing design  
designed P.H. JANUARY 31, 2016  
drawn N.H. JANUARY 31, 2016  
date JANUARY 31, 2016  
approved  
operator  
Submitted  
719945  
no. of project  
drawing no. C5  
no. of design

ELEVATIONS



ELEVATION SCALE: 1:40

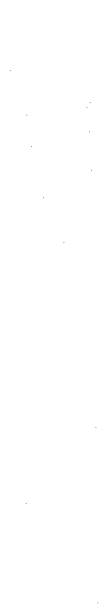


ELEVATION SCALE: 1:40

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  
 JPN ENGINEERING INC.  
 To practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by JPNEN. 2082E. Valid to March 31, 2016.



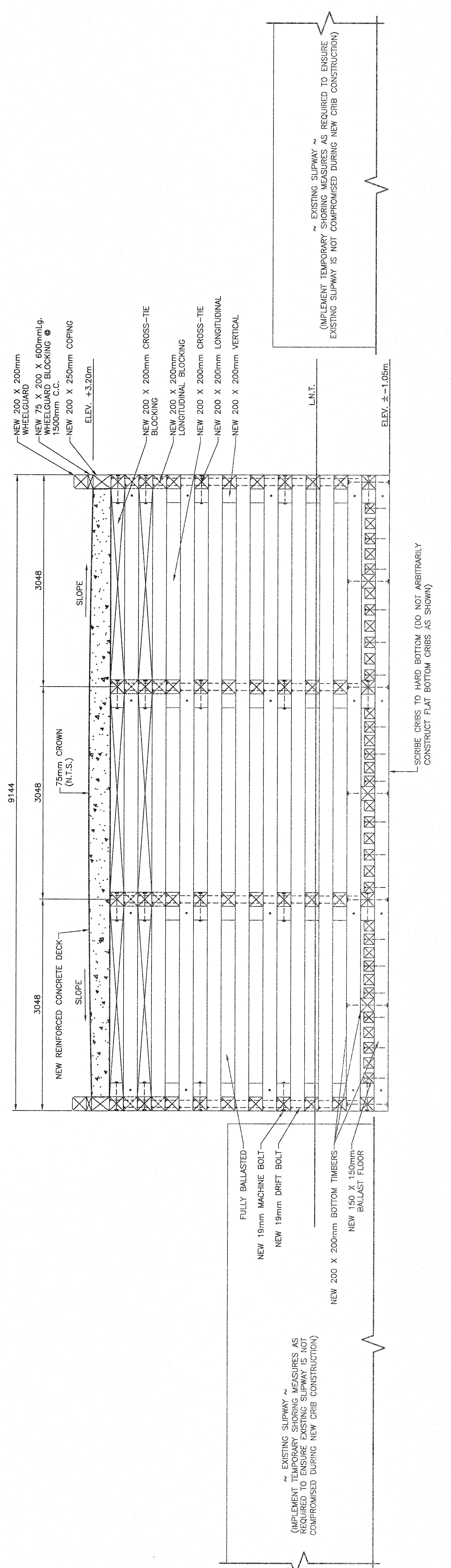
ISSUED FOR TENDER 31/07/16  
 ISSUED FOR REVIEW 12/07/16

WHARF STEM RECONSTRUCTION  
 LITTLE PORT, NL

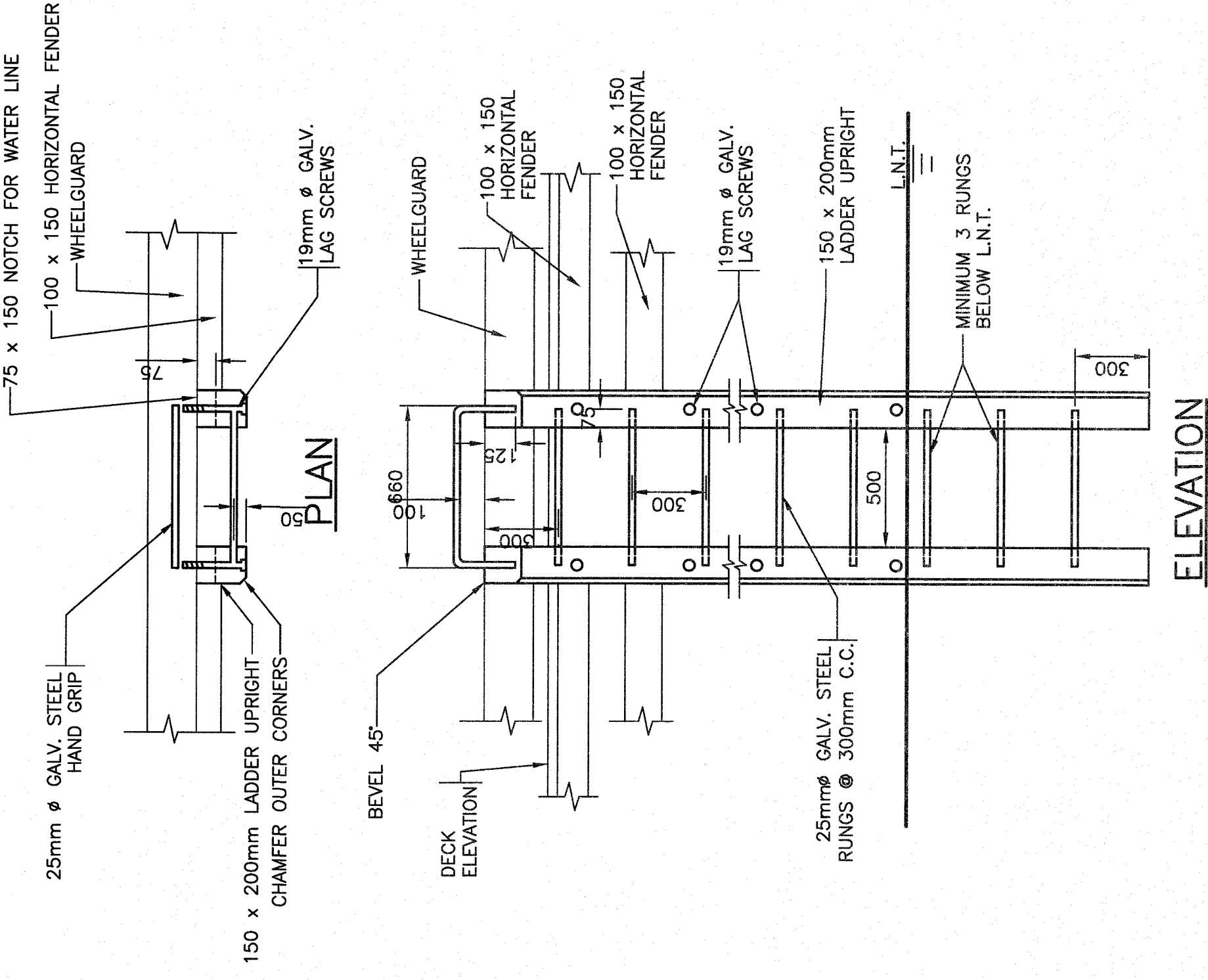
SECTION

designed P.H.  
 date JANUARY 31, 2016  
 drawn N.H.  
 date JANUARY 31, 2016  
 approved  
 Tender Paul Curran  
 DEJ Project Manager  
 project number 719945  
 drawing no. C6

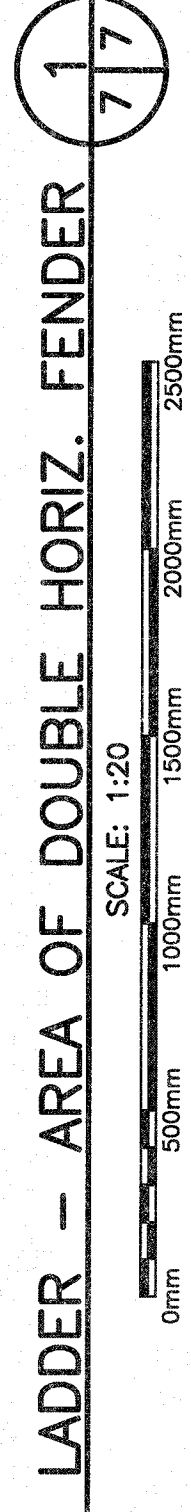
- DESIGN NOTES:
1. MINIMUM CONCRETE STRENGTH 35 MPa @ 28 DAYS.
  2. REINFORCING STEEL YIELD STRENGTH 400 MPa.
  3. REINFORCING STEEL SHALL CONFORM TO A53.5-04.
  4. ALL REINFORCING STEEL SHALL BE GALVANIZED UNLESS OTHERWISE NOTED.
  5. ALL LAG SCREWS 19mm DIAMETER AND COUNTERSUNK (GALVANIZED), UNLESS OTHERWISE NOTED.
  6. ALL MACHINE BOLTS 19mm DIAMETER (GALVANIZED).
  7. ALL DRIFT BOLTS TO BE 19mm DIAMETER (GALVANIZED).
  8. ALL TIMBER TO BE TREATED TO CSA 080.
  9. GALVANIZING WILL CONFORM TO CSA G164-M82.



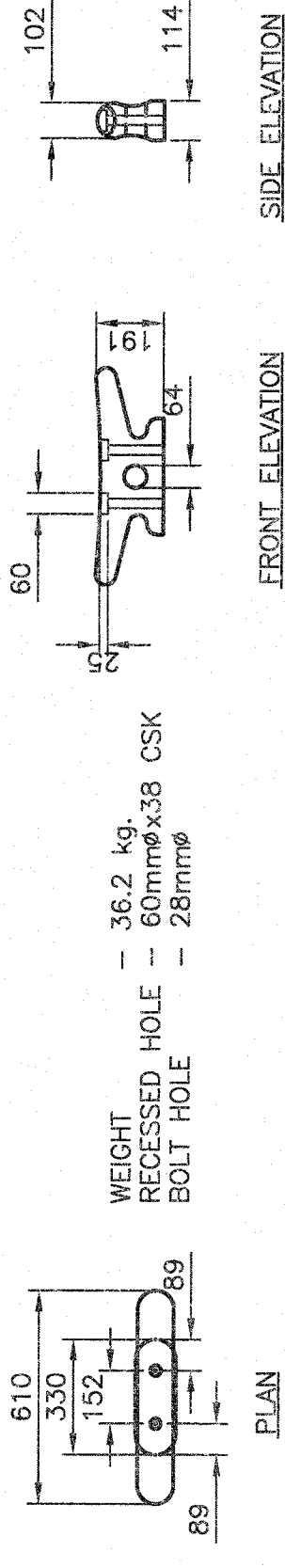
SECTION  
 SCALE : 1:30  
 0m 100mm 200mm 300mm



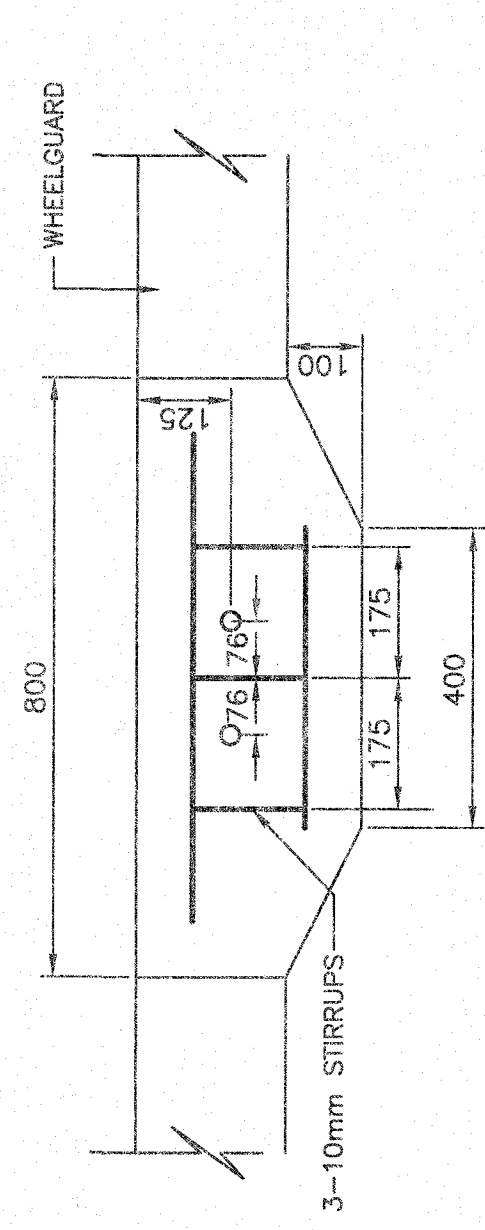
ELEVATION



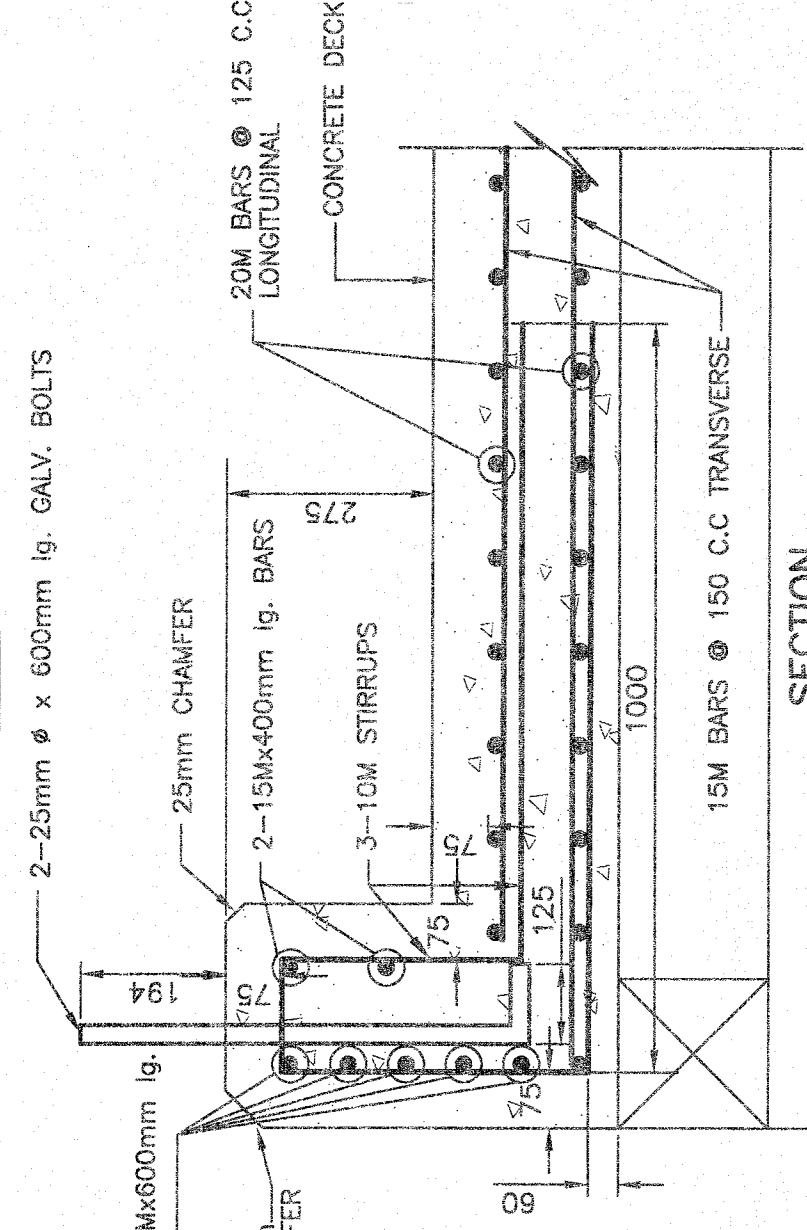
LADDER - AREA OF DOUBLE HORIZ. FENDER



TYPE 'B1' CLEAT

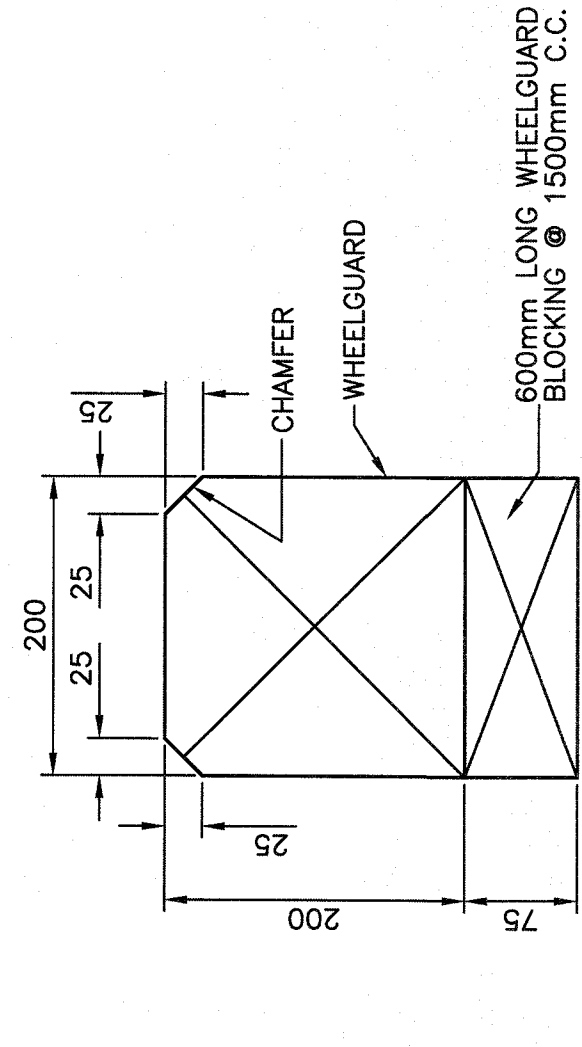


PLAN

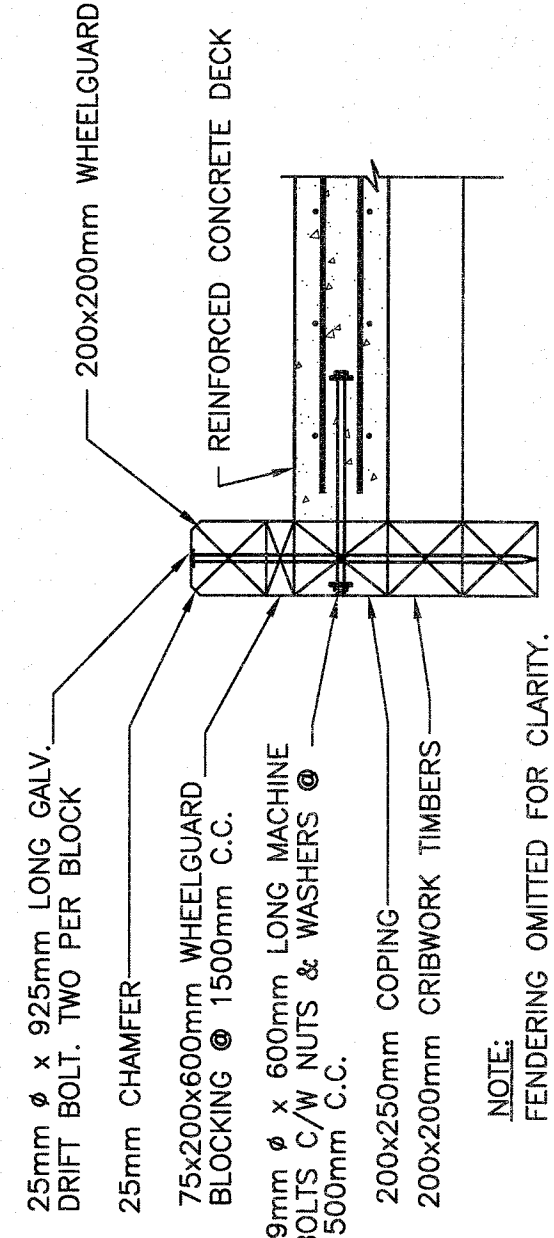
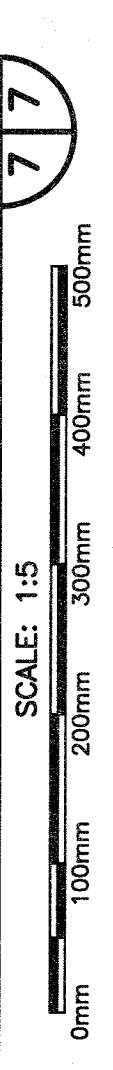


SECTION

TYPE 'B1' CLEAT BLOCK IN CRIBWORK

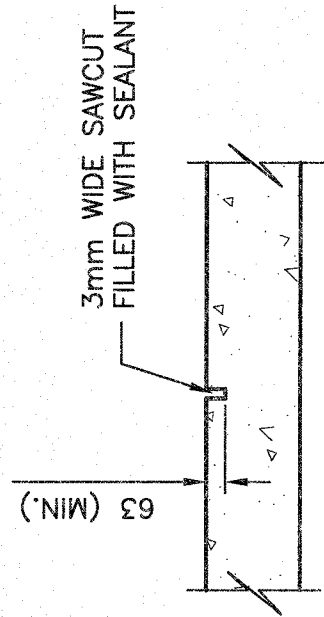
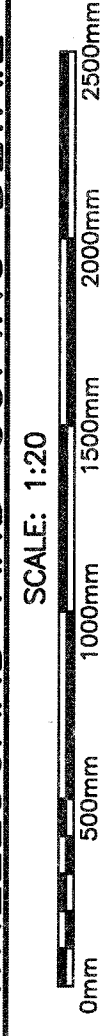


WHEELGUARD SECTION

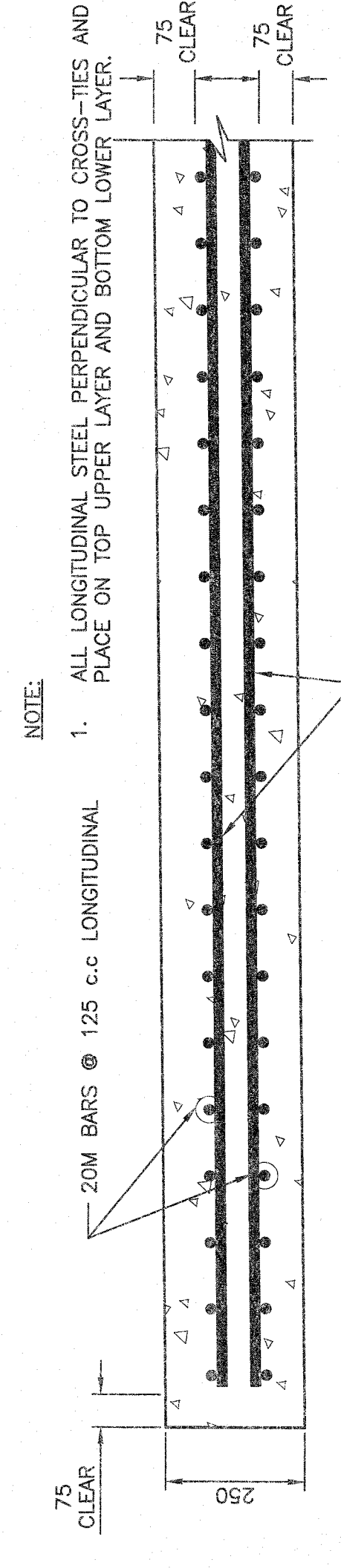


NOTE: FENCING OMITTED FOR CLARITY.

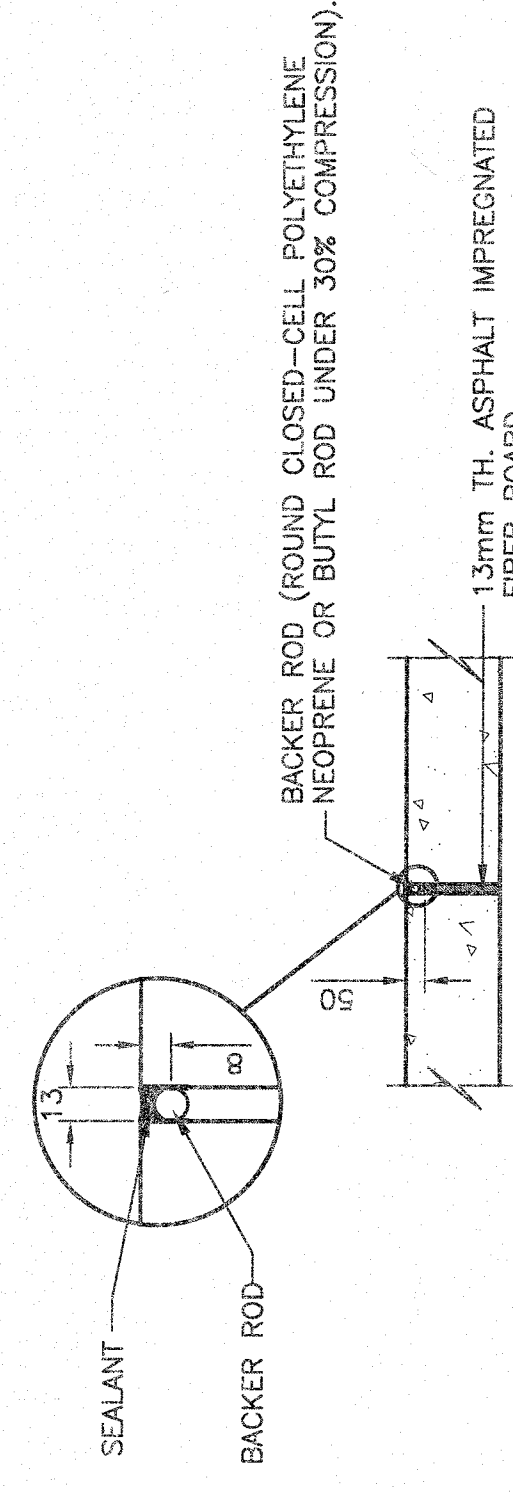
WHEELGUARD AND COPING DETAIL



TYP. CONTROL JOINT DETAIL



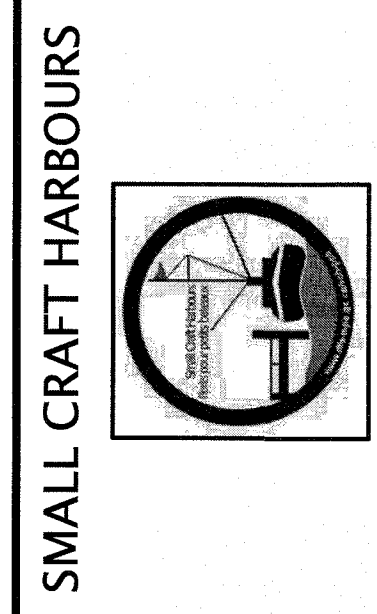
250mm STRUCTURAL DECK



EXPANSION JOINT DETAIL

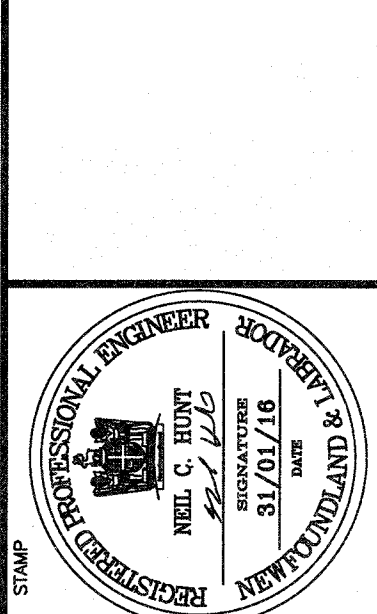


NOTES:  
1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.  
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.



Small Craft Harbours

PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
This Permit Allows  
APN ENGINEERING INC.  
To practice Professional Engineering  
in Newfoundland and Labrador.  
Permit No. as issued by APPELCO, 2008BZ.  
Valid to March 31, 2016.



B	ISSUED FOR TENDER	31/01/16
A	ISSUED FOR REVIEW	16/01/16
revisions	date	

project  
WHARF STEM RECONSTRUCTION  
LITTLE PORT, NL

drawing  
DETAILS

designed P.H.	conced
date JANUARY 31, 2016	date
drawn N.H.	date
approved	approval
date JANUARY 31, 2016	date
Tender Paul Curran	Submission
DCS Project Manager	Project number
	no. du projet
	719945
	no. du dessin
	C7