

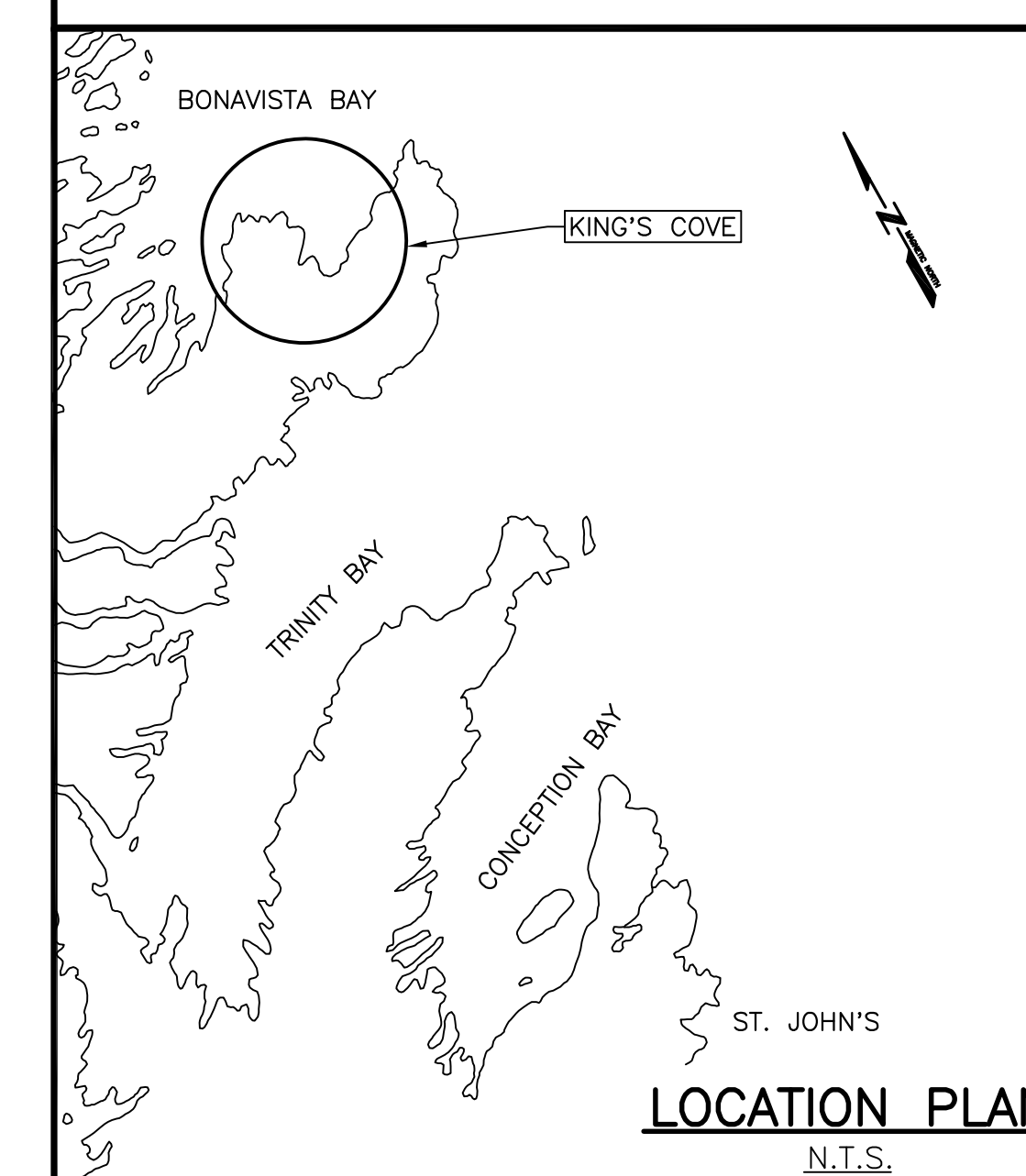
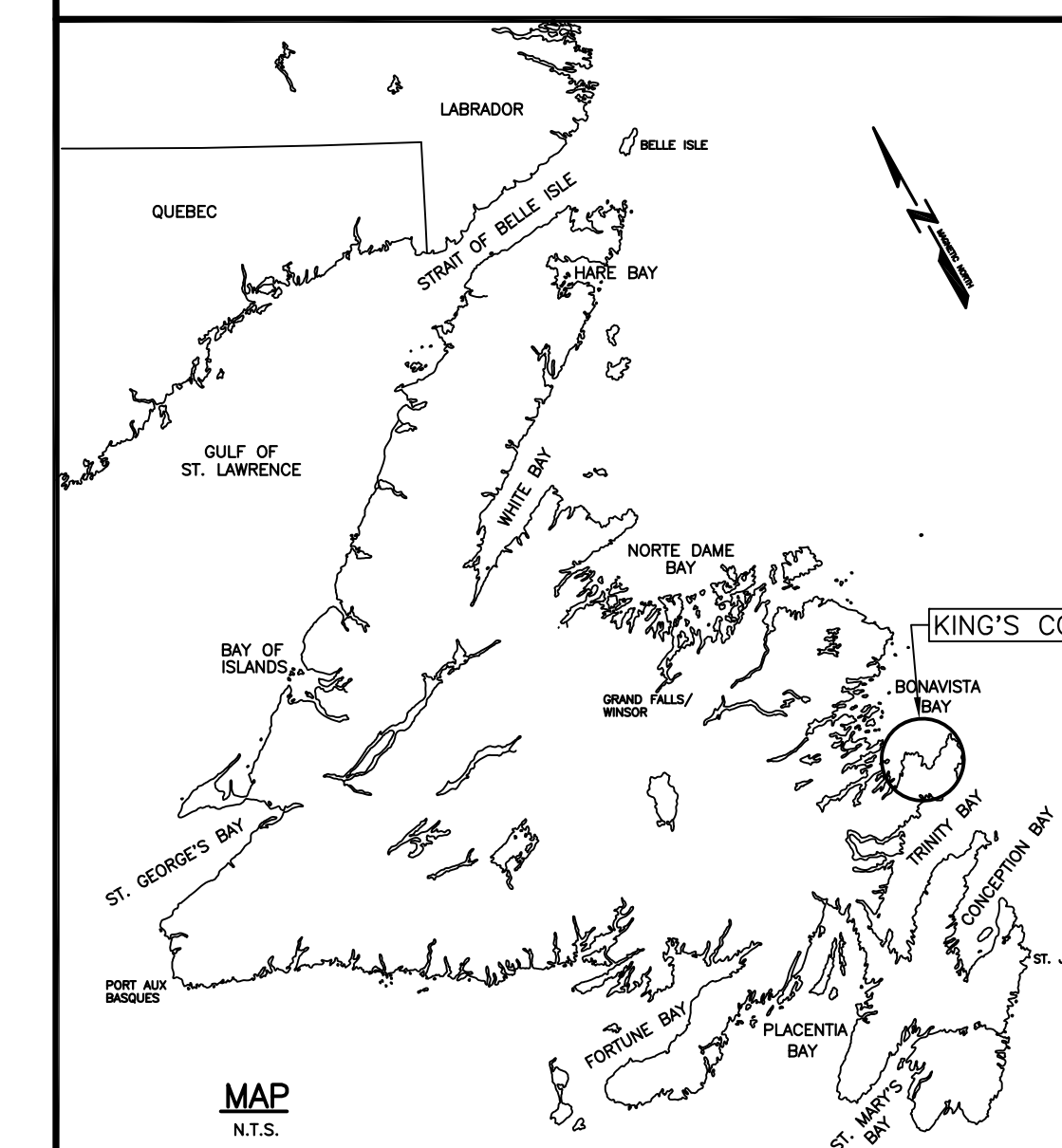


FISHERIES AND OCEANS
CANADA

KING'S COVE HARBOUR REPAIRS KING'S COVE NEWFOUNDLAND AND LABRADOR

PROJECT No. 723422
ISSUED FOR TENDER

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	NEW LAUNCHWAY PLAN AND SECTION
C5 OF 7	NEW LAUNCHWAY SECTIONS AND DETAILS
C6 OF 7	UPLANDS SLAB AND CRIB
C7 OF 7	NEW BREAKWATER SECTION

SURVEY NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
 SURVEY VESSEL ALUMINUM BOAT
 SURVEY DATE(S) APRIL 29, 2019
 SOUNDER TYPE: SINGLE TRANSDUCER
 SOUNDER SETTING MIN/INST VEL. OF SOUND 1447 m/s
 DEPTH GATE USED N/A FREQ. OF TRANS. 200 kHz
 POSITIONING SYSTEM USED TRIMBLE R7 GNSS DGPS (WITH OTF)
 LAND SURVEY POSITION BY TRIMBLE R7 GNSS DGPS (WITH OTF)
 DATA TAPE/DISC(S) USED
 CAD DRAWING FILE(S):
 TIDAL REDUCTION SCHEME

OFFICE PROCESSOR EDDIE BEARNS
 DATE OF PROCESSING APRIL 2019
 MODE OF PLOTTING LEAST OF MINIMUM DEPTHS
 MATRIX CELL WIDTH X LENGTH
 REDUCTION OF MATRIX CELLS

PL. NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
8666030	327834.916	5382185.157		PROVINCIAL BRASS PLAQUE SET IN BEDROCK
837016	327956.008	5381706.291		PROVINCIAL BRASS PLAQUE SET IN BEDROCK
PWC 2-90	327918.600	5382028.338	+2.071 m	BOLT CEMENTED IN CONCRETE DECK
PWC 1-2019	327892.845	5382076.583	+4.183 m	NAIL SET IN PAVEMENT
7800017			+11.257 m	CHS BRASS PLAQUE SET IN BEDROCK
7800018			+3.576 m	CHS BRASS PLAQUE SET IN BEDROCK
7800019			+8.032 m	CHS BRASS PLAQUE SET IN BEDROCK

ALL SOUNDINGS & ELEVATIONS IN METRES.
 ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 7800019 ELEV. +8.032 m (BRASS PLAQUE SET IN BEDROCK).

SOUNDINGS TAKEN USING NAVISOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE R7 GNSS DIFFERENTIAL GPS POSITIONING SYSTEM ON APRIL 29, 2019 BY PWGSC SURVEY CREW.

COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 22, 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.

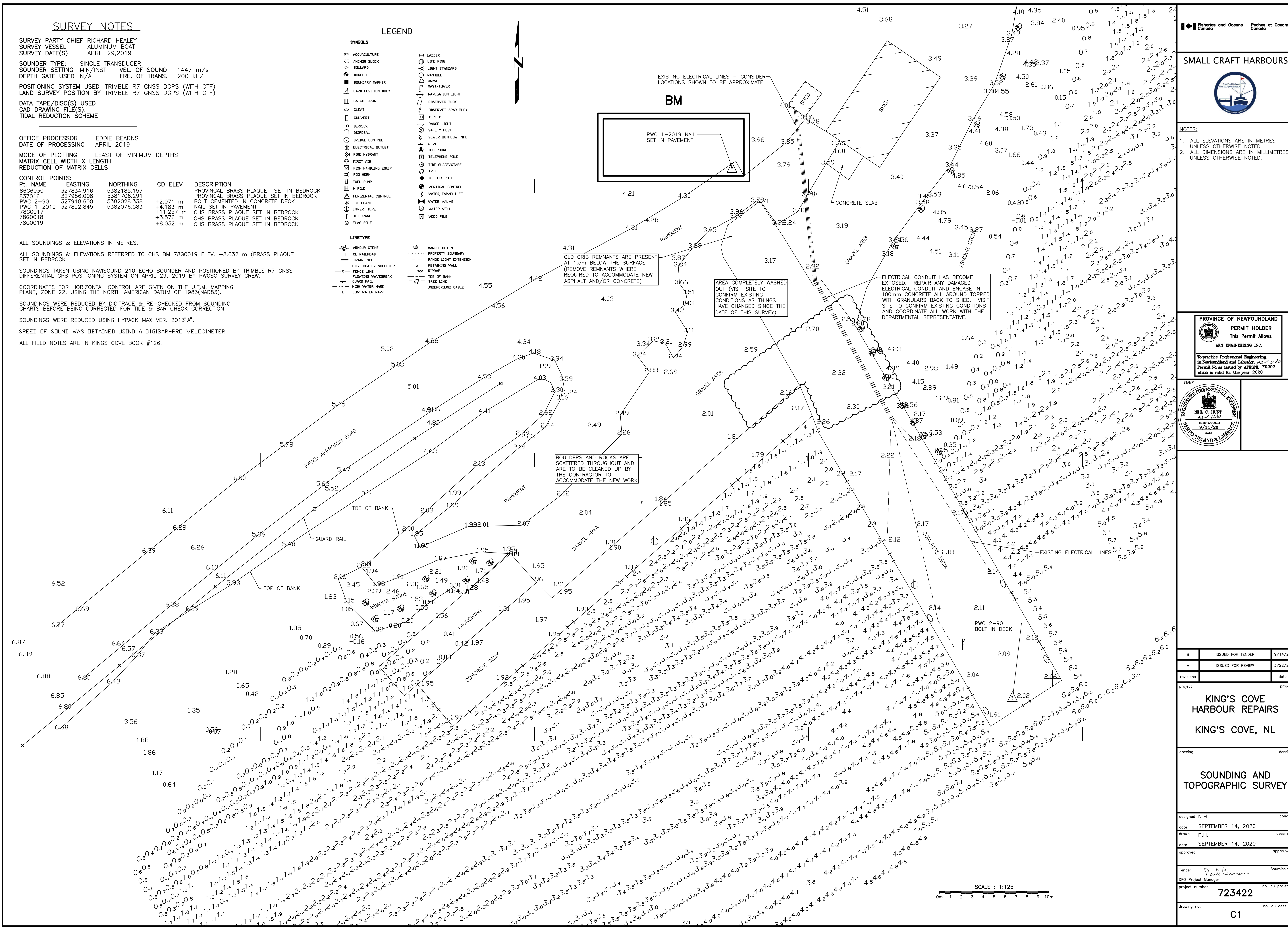
SOUNDINGS WERE REDUCED USING HYPACK MAX VER. 2013*A.

SPEED OF SOUND WAS OBTAINED USING A DIGIBAR-PRO VELOCIMETER.

ALL FIELD NOTES ARE IN KINGS COVE BOOK #126.

LEGEND

- SYMBOLS**
- ACQUACULTURE
 - ANCHOR BLOCK
 - BOLLARD
 - BREWER
 - BOUNDARY MARKER
 - CARD POSITION BUIEY
 - CATCH BASIN
 - CLEAT
 - CULVERT
 - DISPISAL
 - DREDGE CONTROL
 - ELECTRICAL OUTLET
 - FIRE HYDRANT
 - FIRST AID
 - FISH HANDLING EQUIP.
 - FOG HORN
 - FUEL PUMP
 - H PILE
 - HORIZONTAL CONTROL
 - ICE PLANT
 - INVERT PIPE
 - JIB CRANE
 - LAUNCHWAY
 - FLAG POLE
 - LAZER
 - LIFE RING
 - LIGHT STANDARD
 - MANHOLE
 - MARSH
 - MAST/TOWER
 - NAVIGATION LIGHT
 - OBSERVED BUIEY
 - OBSERVED SPAR BUIEY
 - PIPE PILE
 - RANGE LIGHT
 - SAFETY POST
 - SEWER OUTFLOW PIPE
 - SIEN
 - TELEPHONE
 - TELEPHONE POLE
 - TIDE GAUGE/STAFF
 - TREE
 - UTILITY POLE
 - VERTICAL CONTROL
 - WATER TAP/OUTLET
 - WATER VALVE
 - WATER WELL
 - WOOD PILE
- LINE TYPE**
- ARMOUR STONE
 - CL RAILROAD
 - DRAIN PIPE
 - EDGE ROAD / SHOULDER
 - FENCE LINE
 - FLOATING WAVEBREAK
 - GUARD RAIL
 - HIGH WATER MARK
 - LOW WATER MARK
 - MARSH OUTLINE
 - PROPERTY BOUNDARY
 - RANGE LIGHT EXTENSION
 - RETAINING WALL
 - RIPRAP
 - TOE OF BANK
 - TRAIL LINE
 - UNDERGROUND CABLE



Fisheries and Oceans Canada
 Pêches et Océans Canada

SMALL CRAFT HARBOURS

NOTES:

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- 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: 9211 ULO
 Permit No. as issued by APENGL E0282
 which is valid for the year 2020.

REGISTERED PROFESSIONAL ENGINEER
 NEIL C. HUNT
 9/14/20
 DATE

B	ISSUED FOR TENDER	9/14/20
A	ISSUED FOR REVIEW	3/22/20
revisions		date

project
KING'S COVE HARBOUR REPAIRS
KING'S COVE, NL

drawing
SOUNDING AND TOPOGRAPHIC SURVEY

designed N.H.	concu
date SEPTEMBER 14, 2020	
drawn P.H.	dessine
date SEPTEMBER 14, 2020	
approved	approve
Tender Paul Curran	Soumission
DFO Project Manager	
project number 723422	no. du projet
drawing no. C1	no. du dessin

SMALL CRAFT HARBOURS



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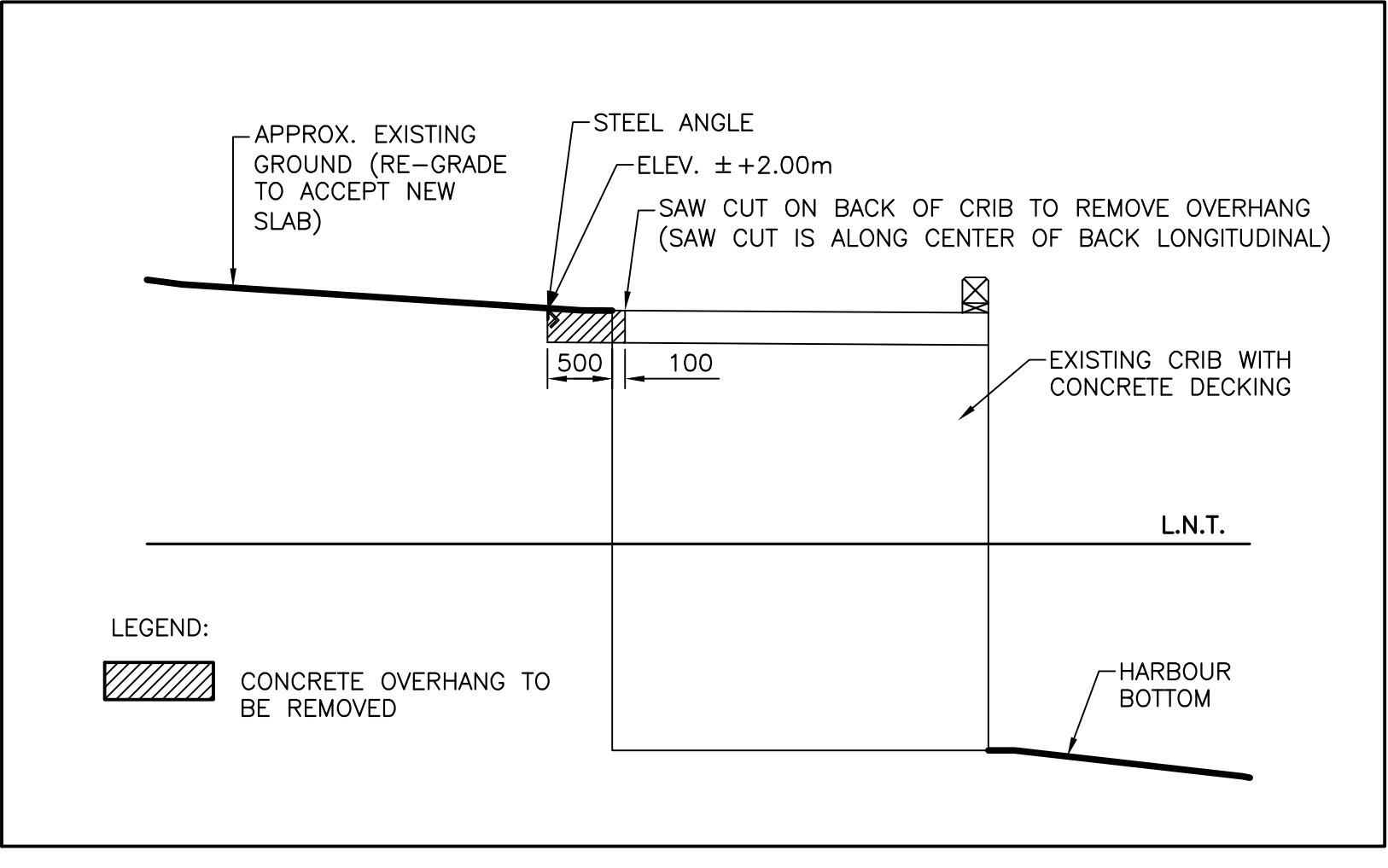
project
KING'S COVE HARBOUR REPAIRS
KING'S COVE, NL

drawing
DEMOLITION PLAN

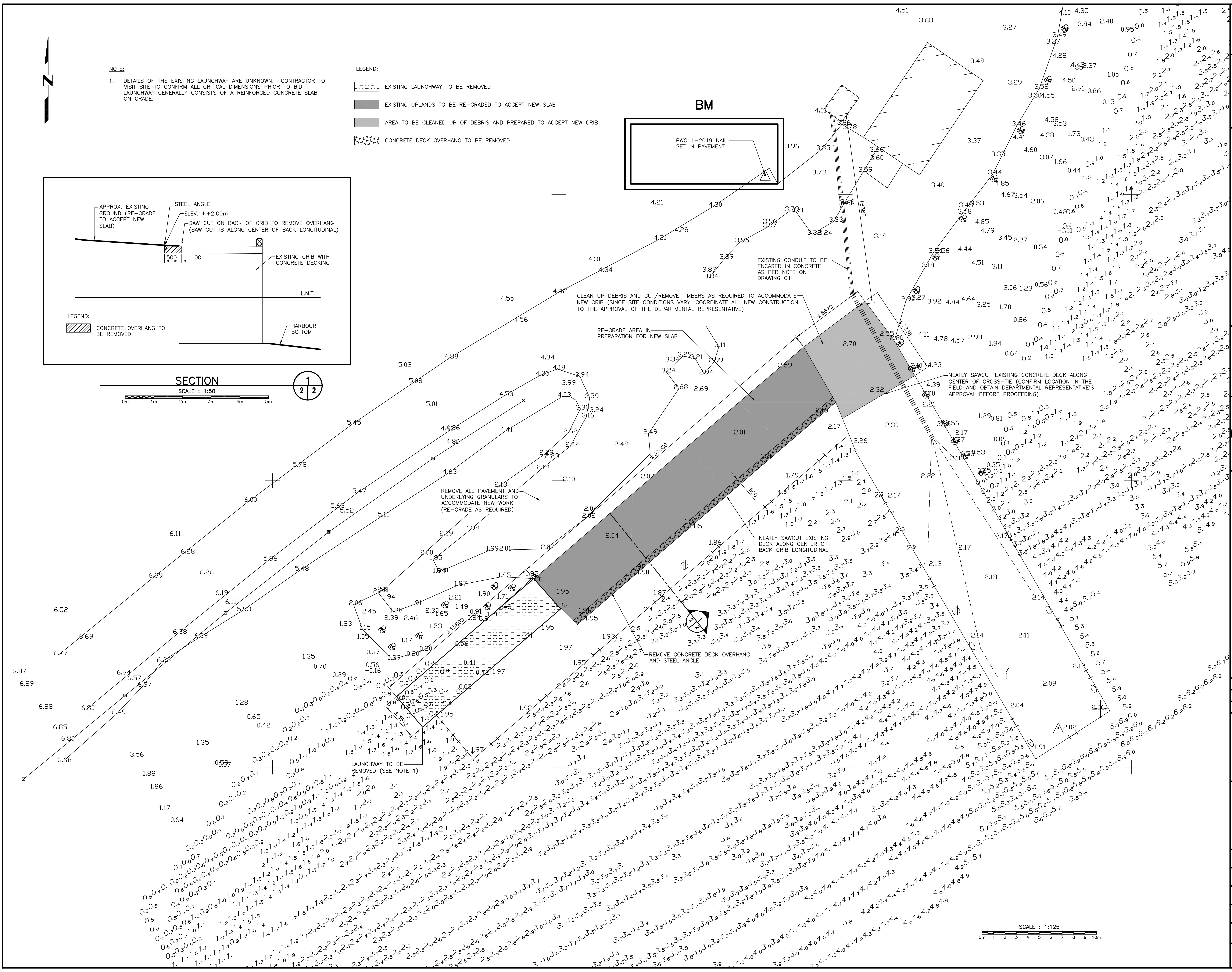
designed N.H.	concu
date SEPTEMBER 14, 2020	
drawn P.H.	dessine
date SEPTEMBER 14, 2020	
approved	approve
Tender Paul Curran	Soumission
DFO Project Manager	
project number 723422	no. du projet
drawing no. C2	no. du dessin

NOTE:
 1. DETAILS OF THE EXISTING LAUNCHWAY ARE UNKNOWN. CONTRACTOR TO VISIT SITE TO CONFIRM ALL CRITICAL DIMENSIONS PRIOR TO BID. LAUNCHWAY GENERALLY CONSISTS OF A REINFORCED CONCRETE SLAB ON GRADE.

- LEGEND:
- EXISTING LAUNCHWAY TO BE REMOVED
 - EXISTING UPLANDS TO BE RE-GRADED TO ACCEPT NEW SLAB
 - AREA TO BE CLEANED UP OF DEBRIS AND PREPARED TO ACCEPT NEW CRIB
 - CONCRETE DECK OVERHANG TO BE REMOVED



SECTION 1/2
 SCALE: 1:50



SCALE: 1:125

Plot Scale: PLOT SCALE

SMALL CRAFT HARBOURS



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REGISTERED PROFESSIONAL ENGINEER
 NEIL C. HUNT
 9/14/20
 NEWFOUNDLAND & LABRADOR

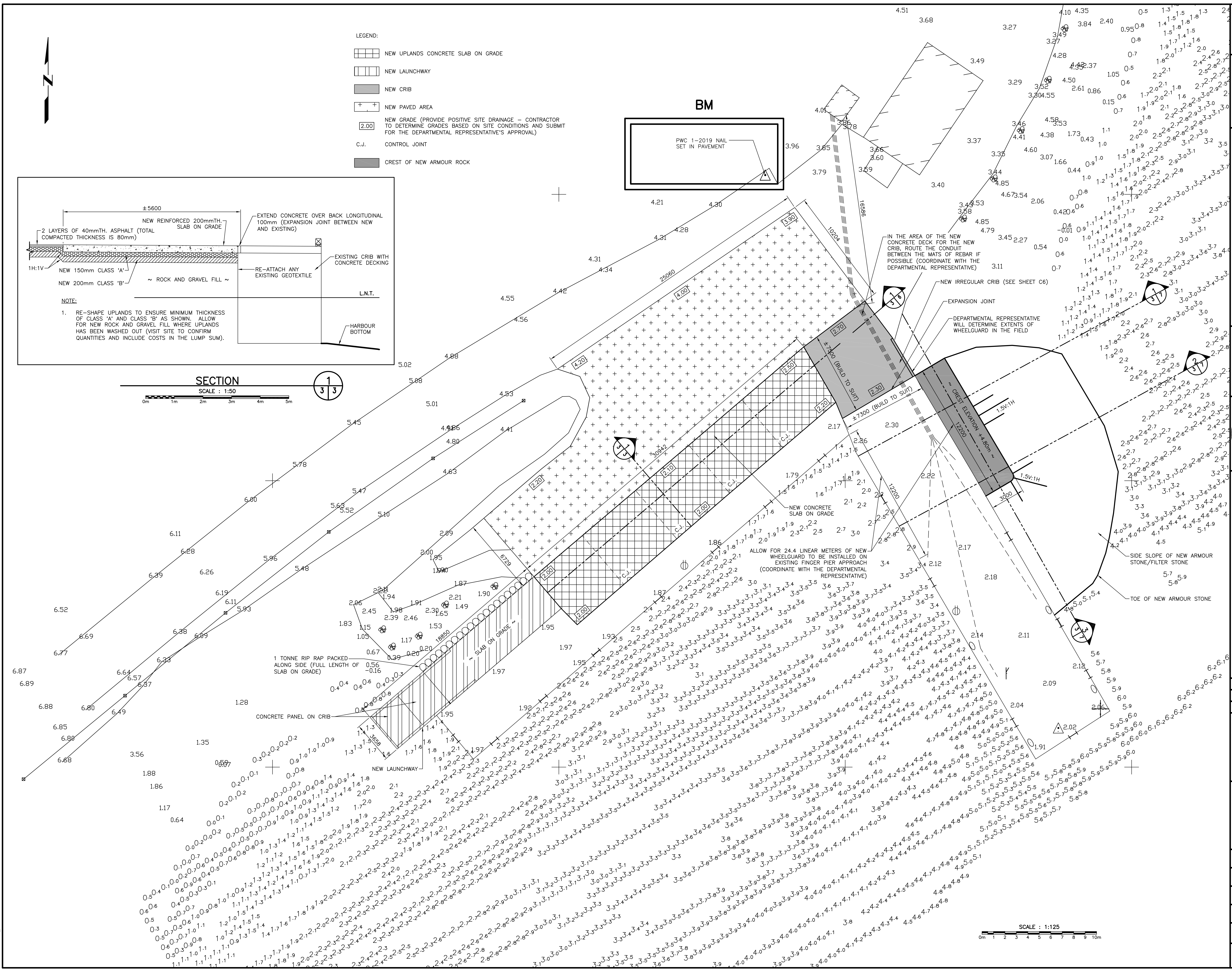
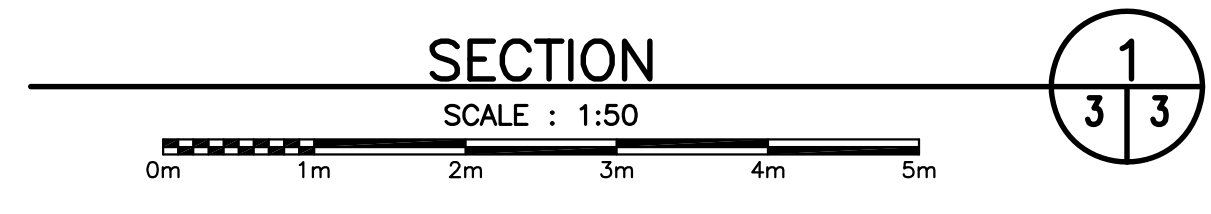
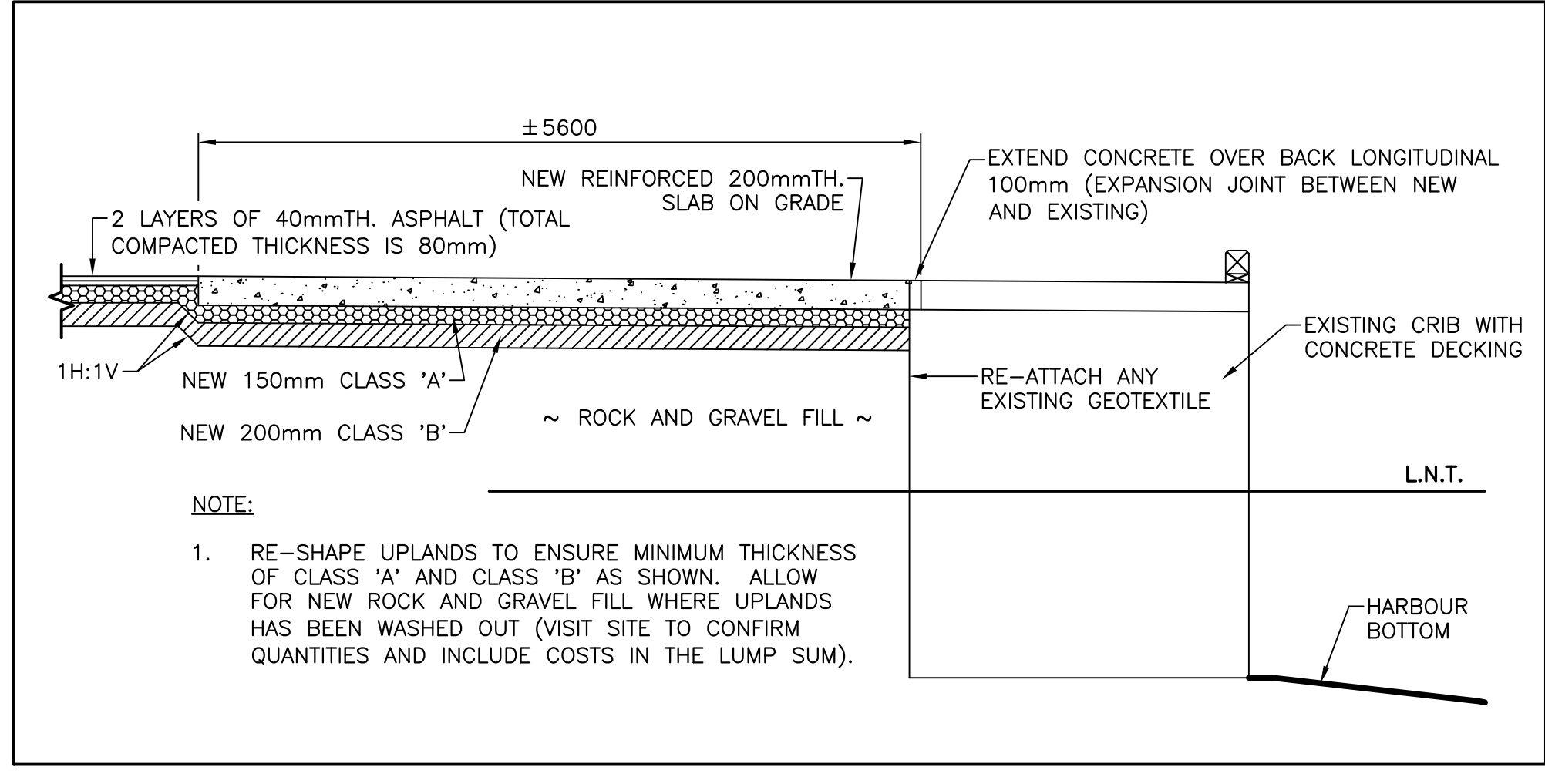
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A	ISSUED FOR REVIEW	3/22/20
revisions		date

project
KING'S COVE HARBOUR REPAIRS
KING'S COVE, NL

drawing
NEW SITE PLAN
 design

designed	N.H.	concu
date	SEPTEMBER 14, 2020	
drawn	P.H.	dessine
date	SEPTEMBER 14, 2020	
approved		approve
Tender	Paul Curran	Submission
DFO Project Manager		
project number	723422	no. du projet
drawing no.	C3	no. du dessin

- LEGEND:
- NEW UPLANDS CONCRETE SLAB ON GRADE
 - NEW LAUNCHWAY
 - NEW CRIB
 - NEW PAVED AREA
 - NEW GRADE (PROVIDE POSITIVE SITE DRAINAGE - CONTRACTOR TO DETERMINE GRADES BASED ON SITE CONDITIONS AND SUBMIT FOR THE DEPARTMENTAL REPRESENTATIVE'S APPROVAL)
 - C.J. CONTROL JOINT
 - CREST OF NEW ARMOUR ROCK



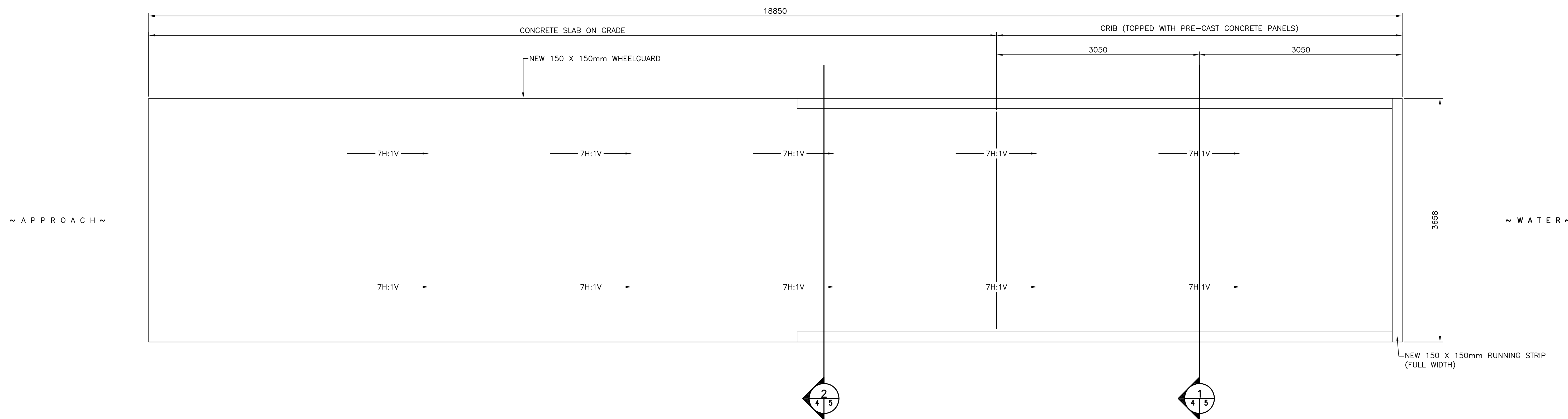
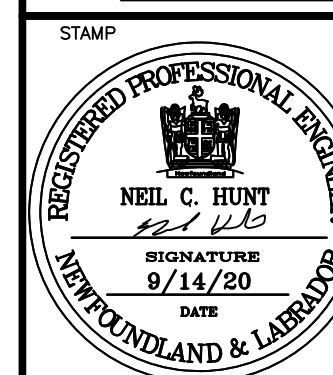
Plot Scale: 1:125

SMALL CRAFT HARBOURS

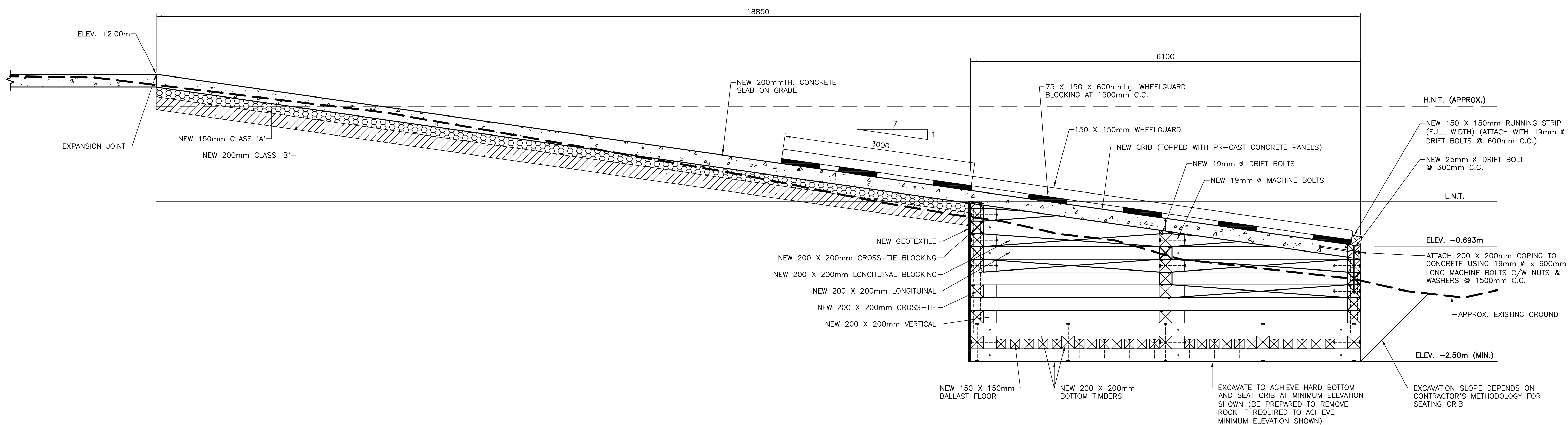


- NOTES:
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 AFN ENGINEERING INC.
 To practice Professional Engineering
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 Permit No. as issued by APEGNL, E0282,
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LAUNCHWAY PLAN
 SCALE : 1:30



LONGITUDINAL SECTION
 SCALE : 1:30

B	ISSUED FOR TENDER	9/14/20
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revisions: _____ date: _____
 project: _____ project: _____

KING'S COVE HARBOUR REPAIRS
KING'S COVE, NL

drawing: _____ dessin: _____

NEW LAUNCHWAY PLAN AND SECTION

designed N.H. concu
 date SEPTEMBER 14, 2020
 drawn P.H. dessine
 date SEPTEMBER 14, 2020
 approved _____ approve

Tender *Paul Curran* Submission
 DFO Project Manager
 project number 723422 no. du projet

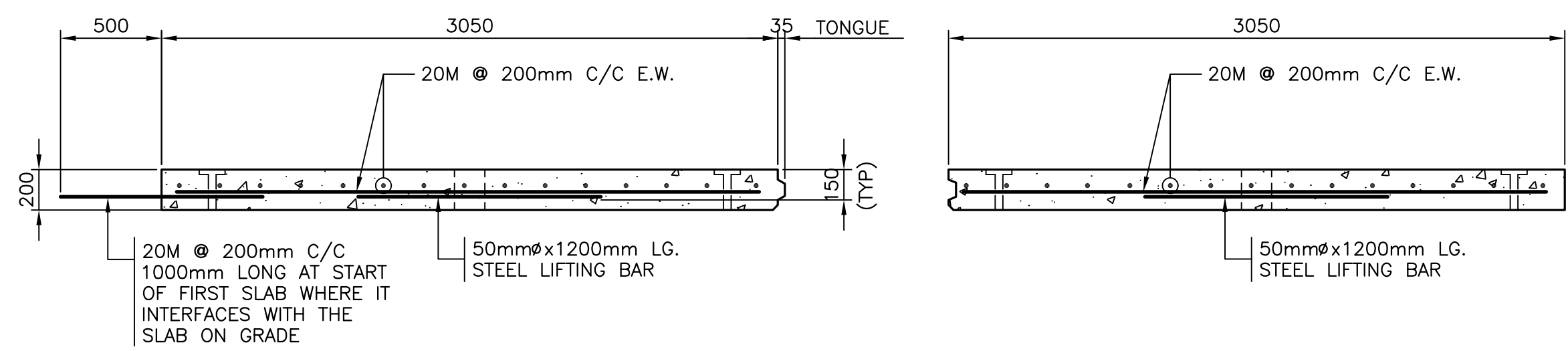
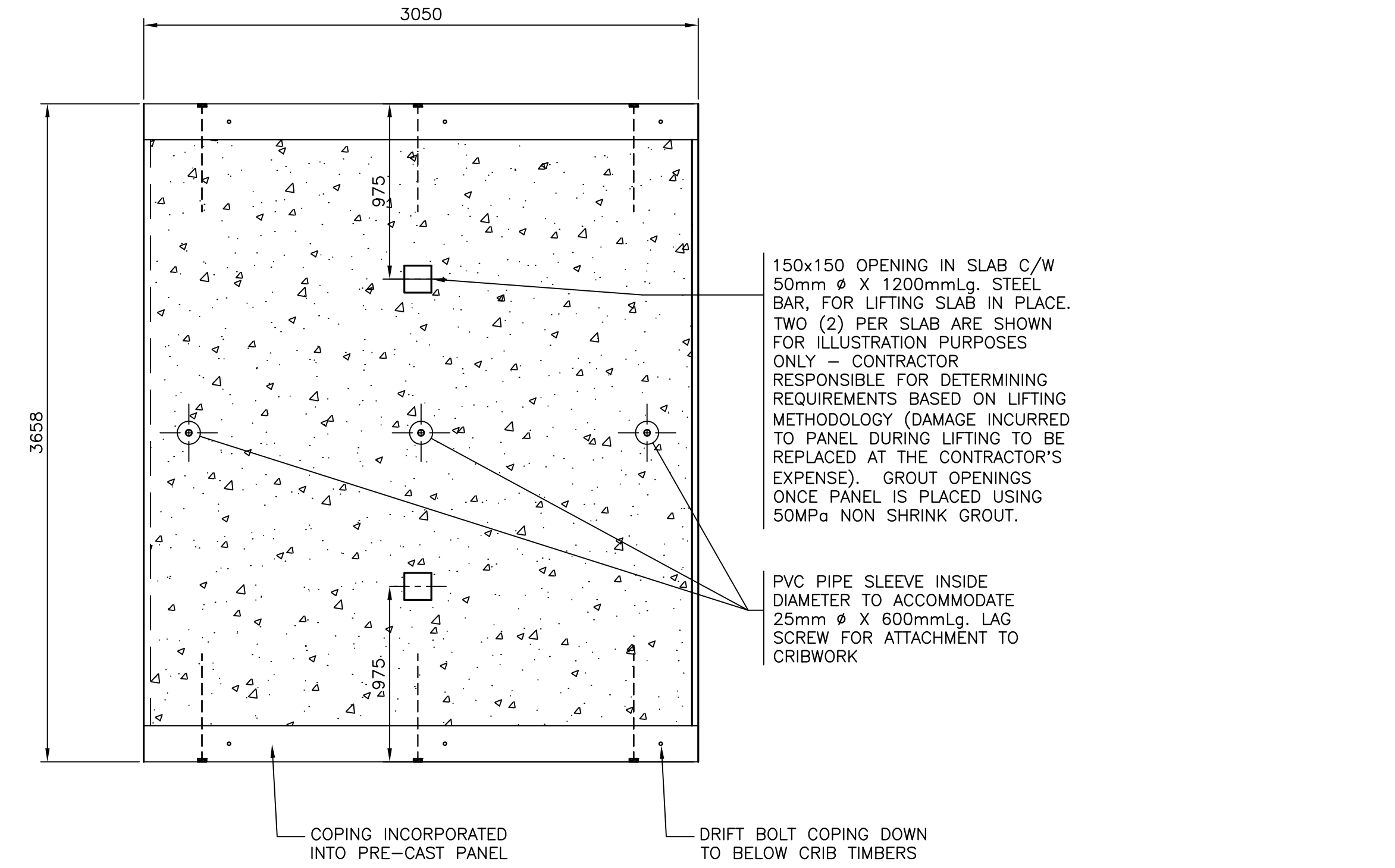
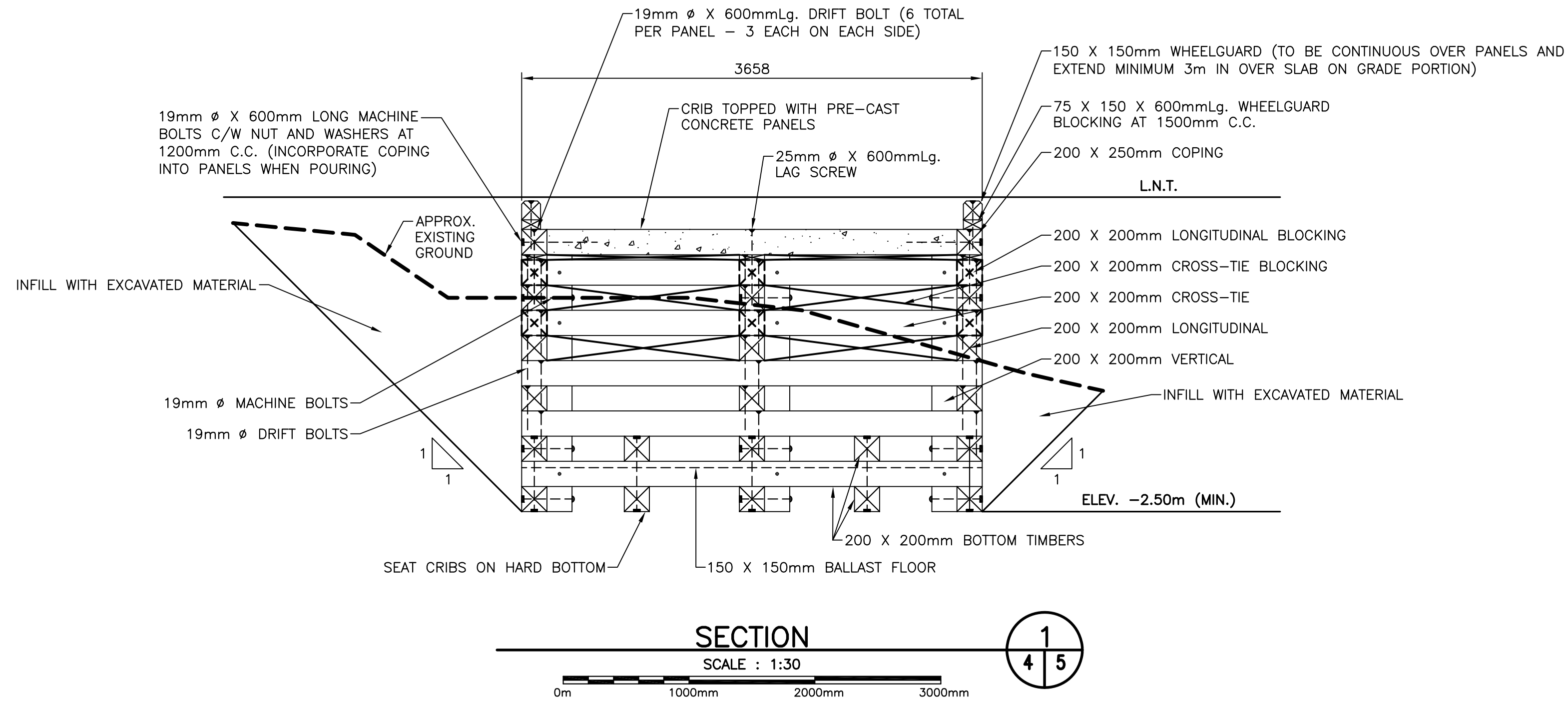
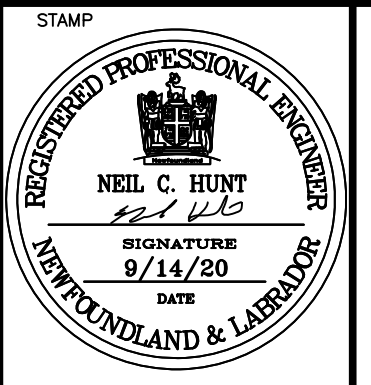
drawing no. C4 no. du dessin

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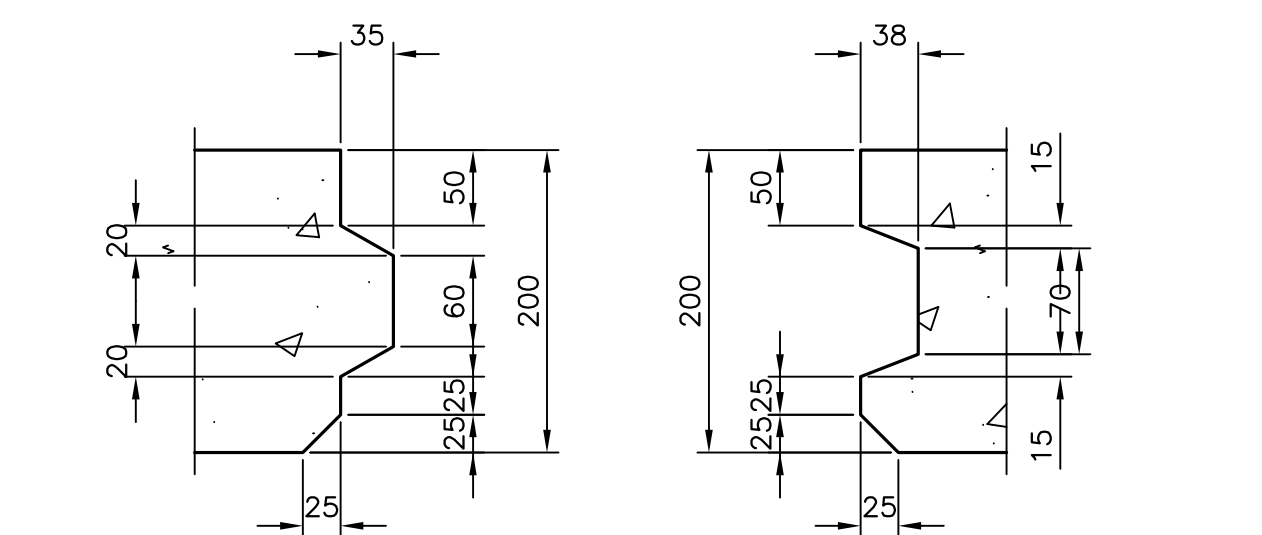
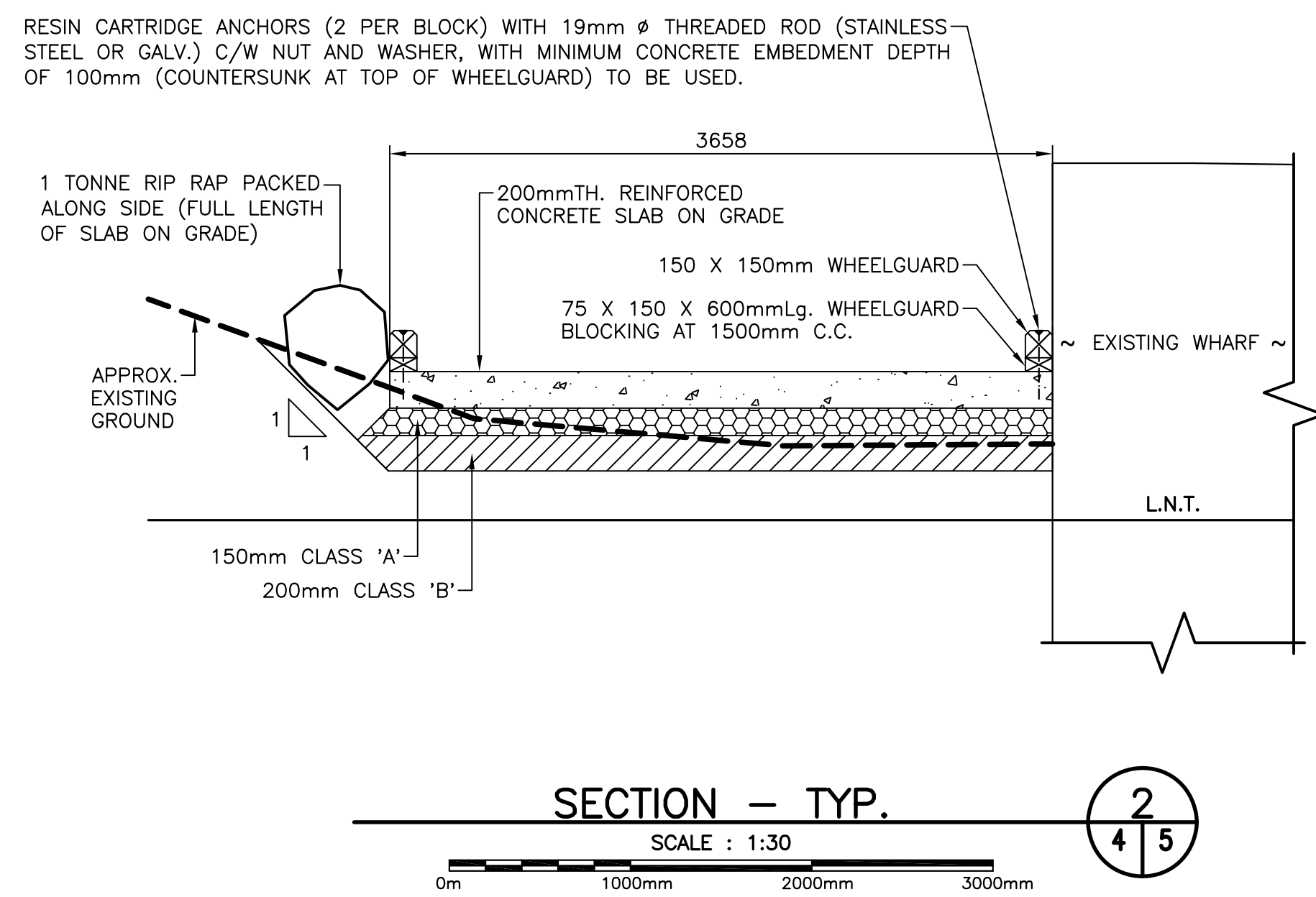


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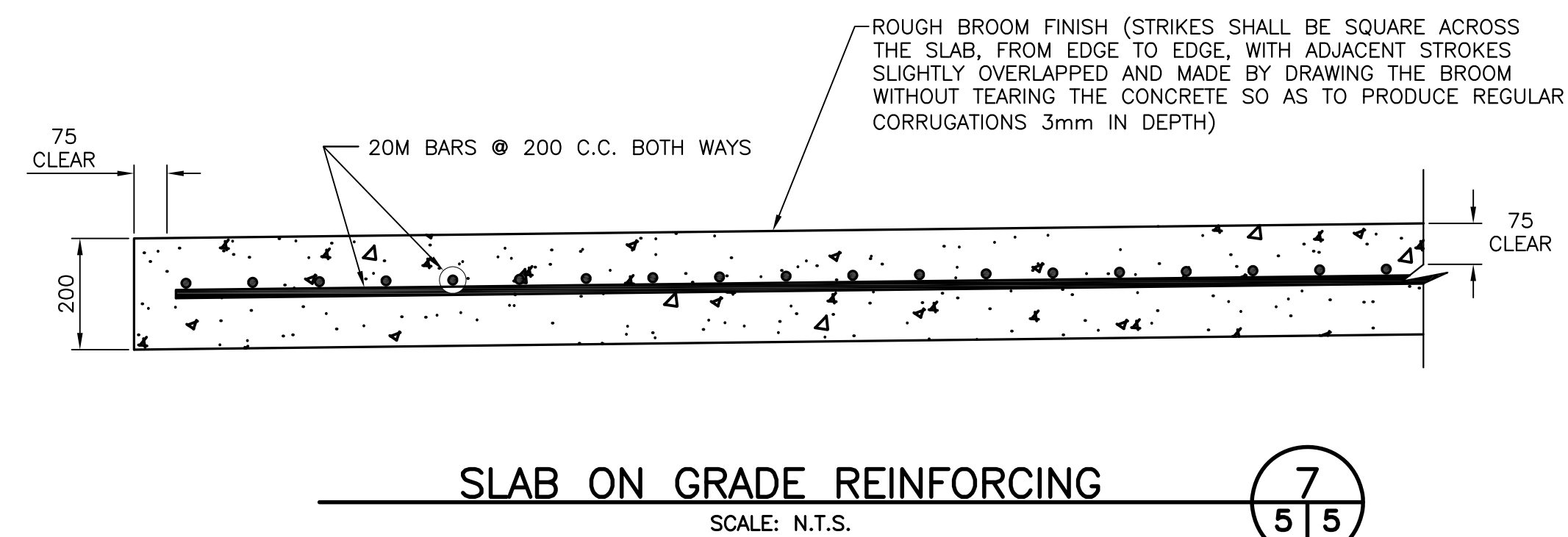
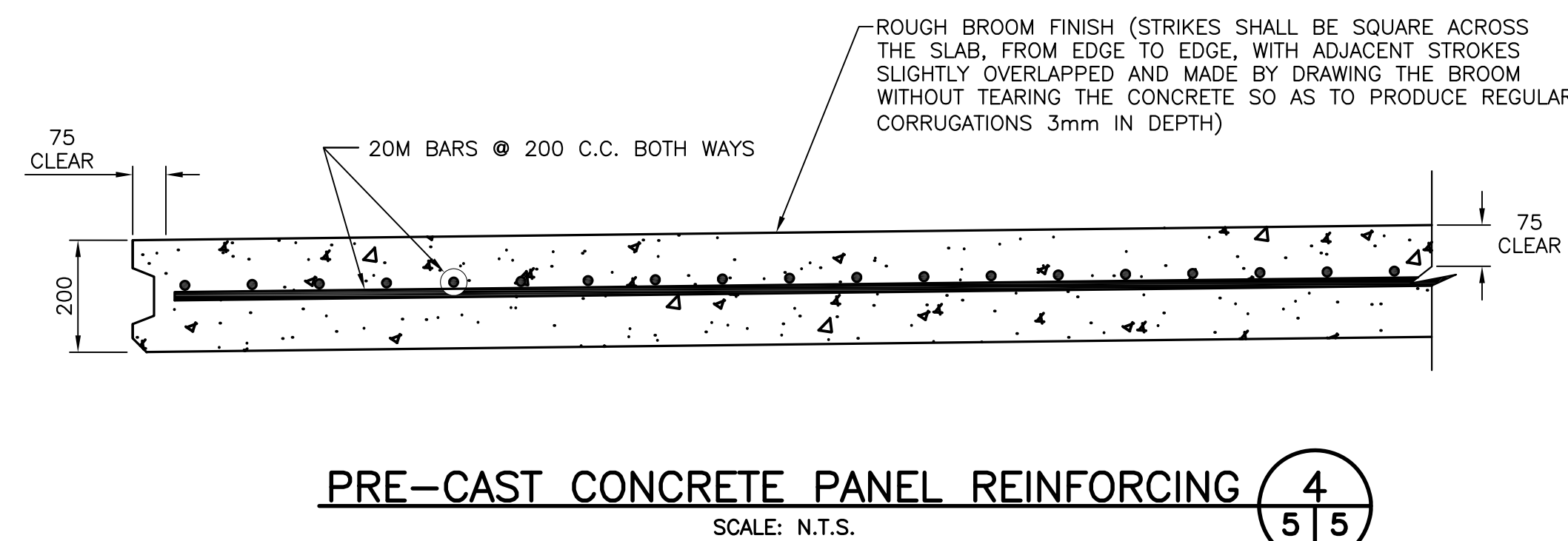
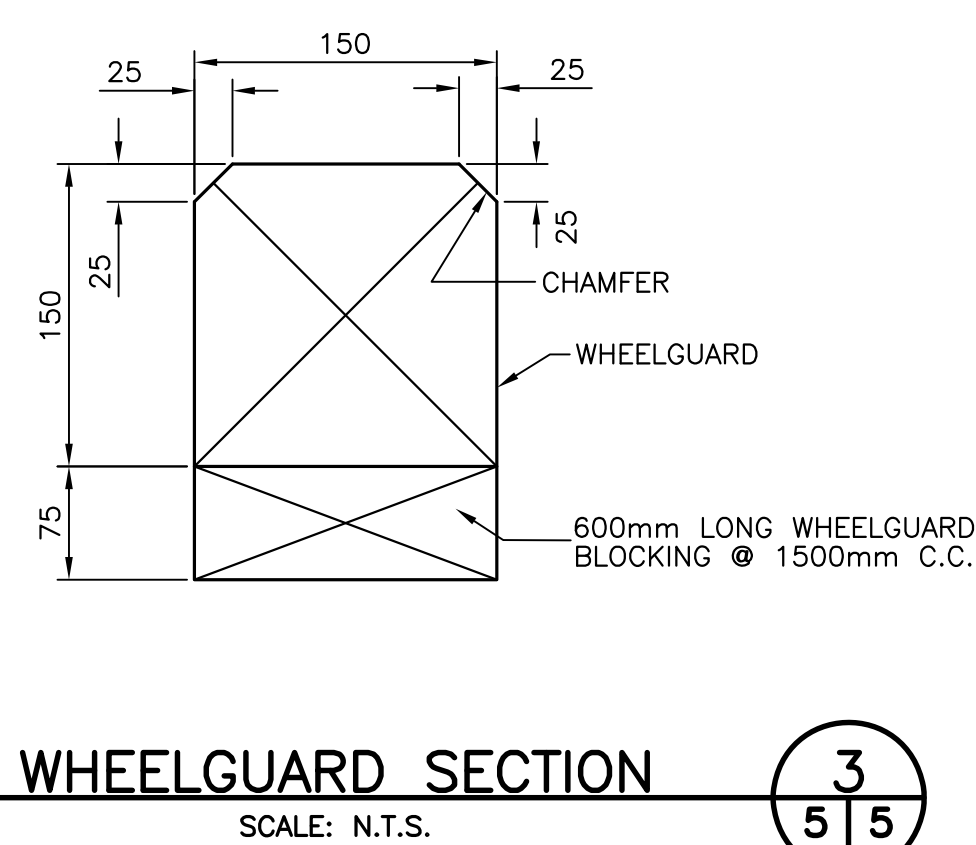


PRE-CAST CONCRETE PANELS
 SCALE: 1:25
 5/5



NOTE:
 1. DETAIL NOT REQUIRED AT END OF LAST SLAB OF SLIPWAY (INCORPORATE END COPING INTO LAST PANEL DURING POUR).

TYPICAL TONGUE AND GROOVE BETWEEN PANELS
 SCALE: 1:5
 6/5



WHEELGUARD SECTION
 SCALE: N.T.S.
 3/5

PRE-CAST CONCRETE PANEL REINFORCING
 SCALE: N.T.S.
 4/5

SLAB ON GRADE REINFORCING
 SCALE: N.T.S.
 7/5

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project KING'S COVE HARBOUR REPAIRS
 KING'S COVE, NL

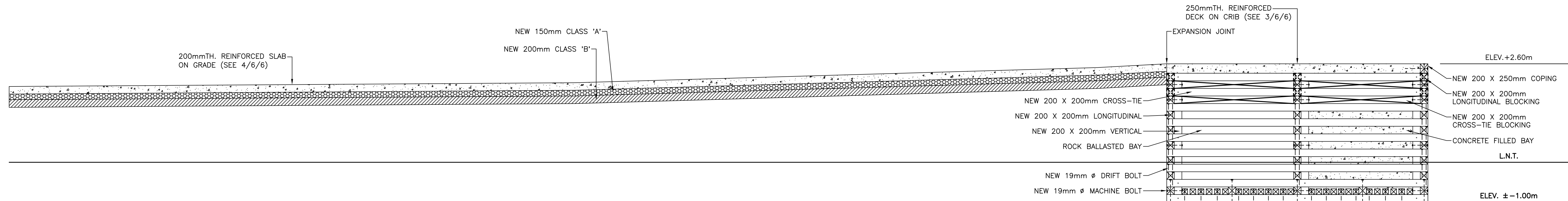
NEW LAUNCHWAY SECTIONS AND DETAILS

designed N.H.	concu
date SEPTEMBER 14, 2020	
drawn P.H.	designe
date SEPTEMBER 14, 2020	
approved	approve
Tender Paul Curran	Submission
DFO Project Manager	
project number 723422	no. du projet
drawing no. C5	no. du dessin

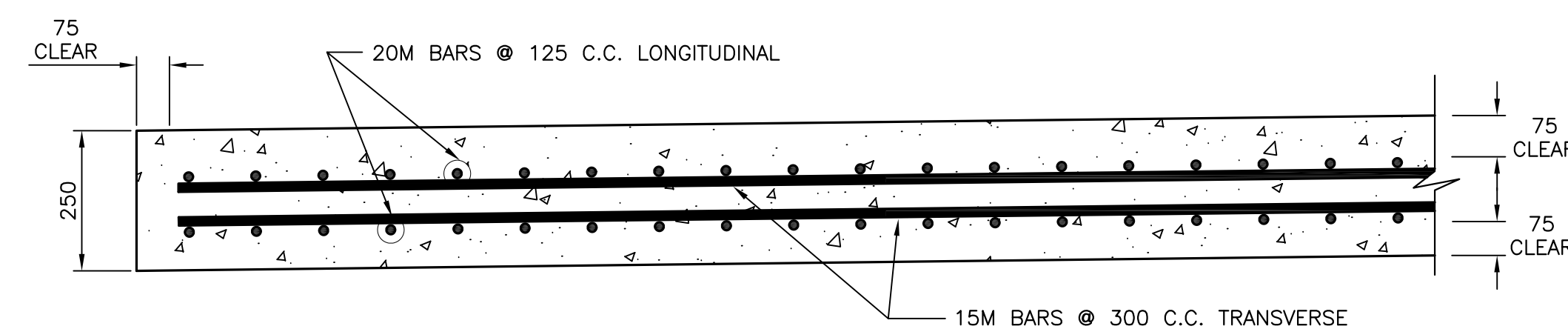
SMALL CRAFT HARBOURS



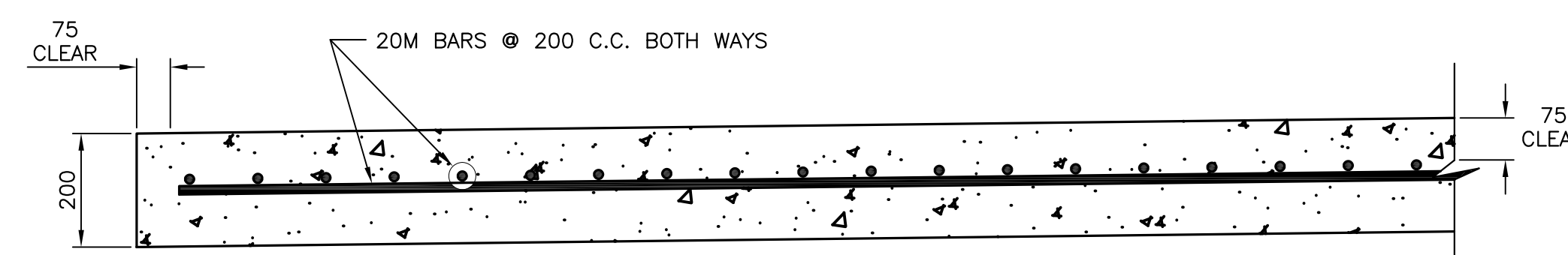
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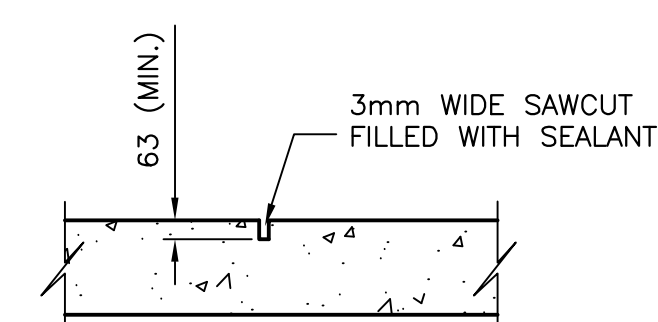
SECTION 1
 SCALE: 1:50



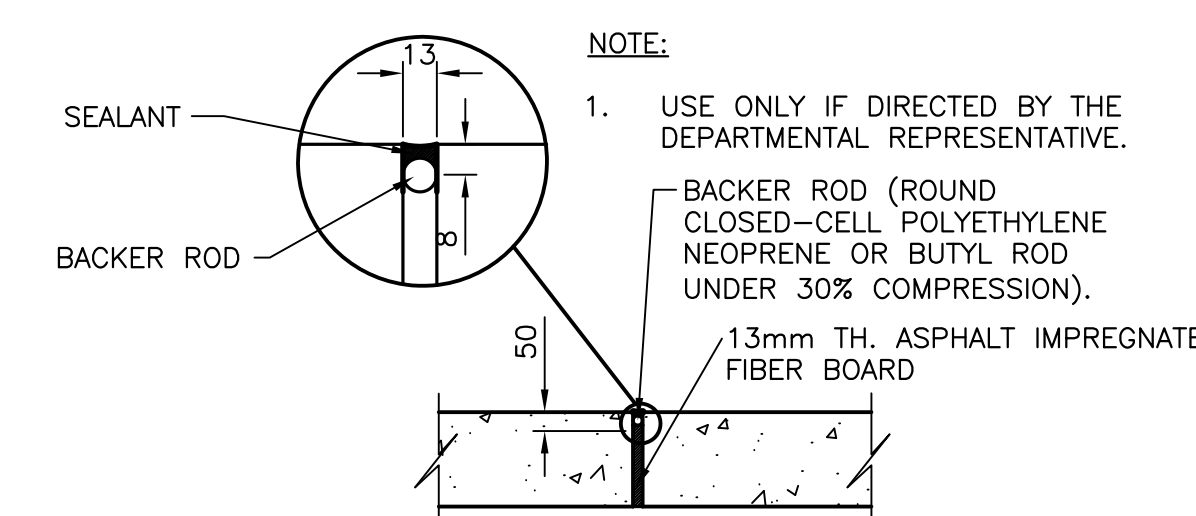
REINFORCING FOR DECK ON CRIB
 SCALE: N.T.S.



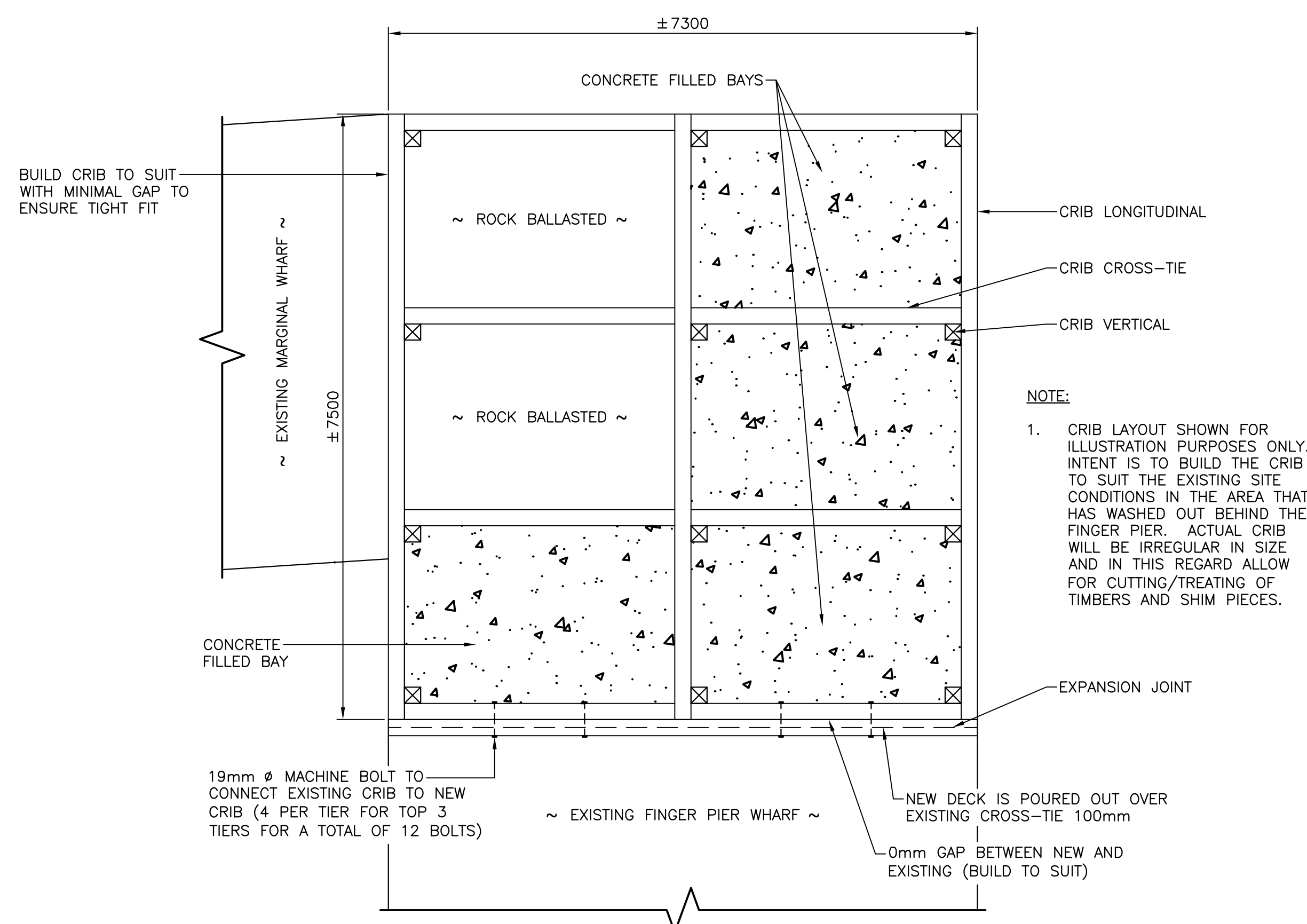
SLAB ON GRADE REINFORCING
 SCALE: N.T.S.



CONTROL JOINT DETAIL
 SCALE: 1:20



EXPANSION JOINT
 SCALE: 1:20



SECTION 2
 SCALE: 1:50

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STAMP
 REGISTERED PROFESSIONAL ENGINEER
 NEIL C. HUNT
 SIGNATURE
 9/14/20
 DATE
 NEWFOUNDLAND & LABRADOR

B	ISSUED FOR TENDER	9/14/20
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revisions		date
project		project

KING'S COVE
 HARBOUR REPAIRS
 KING'S COVE, NL

UPLANDS SLAB
 AND CRIB

designed	N.H.	concu
date	SEPTEMBER 14, 2020	
drawn	P.H.	dessine
date	SEPTEMBER 14, 2020	
approved		approuvé

Tender Paul Curran Submission
 DFO Project Manager
 project number 723422 no. du projet

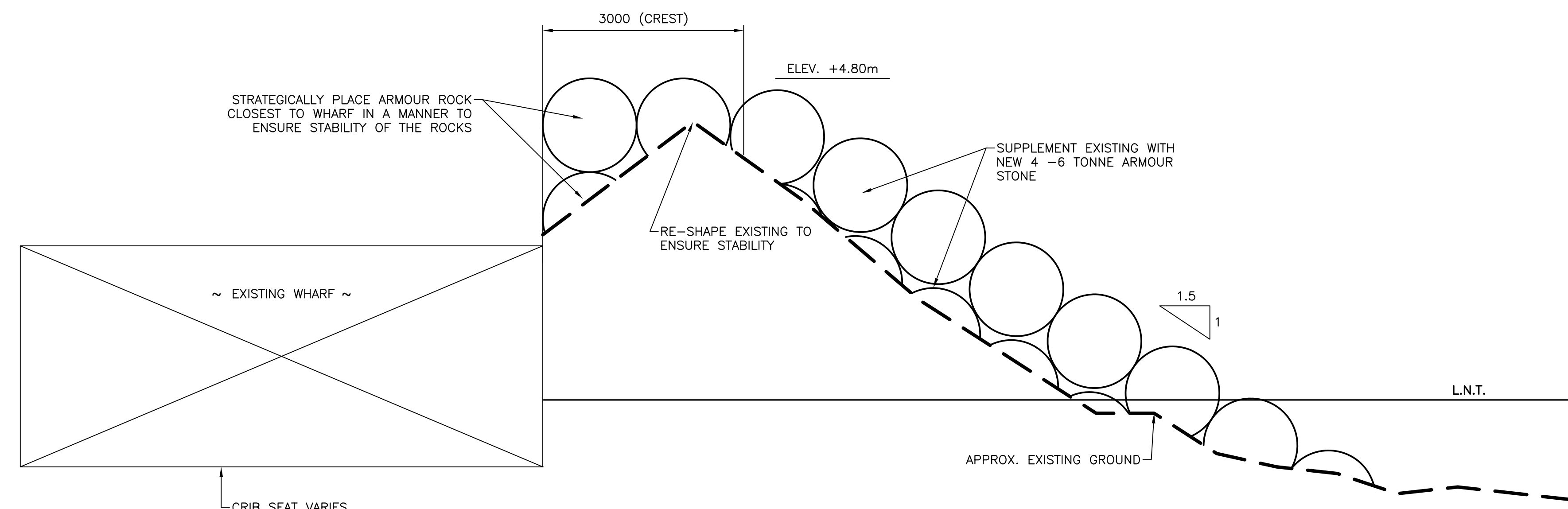
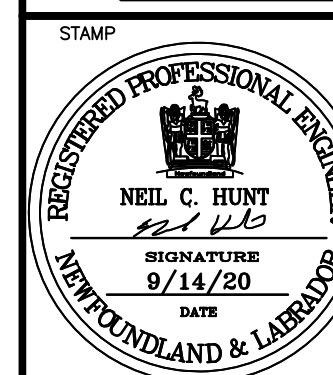
drawing no. C6 no. du dessin

SMALL CRAFT HARBOURS

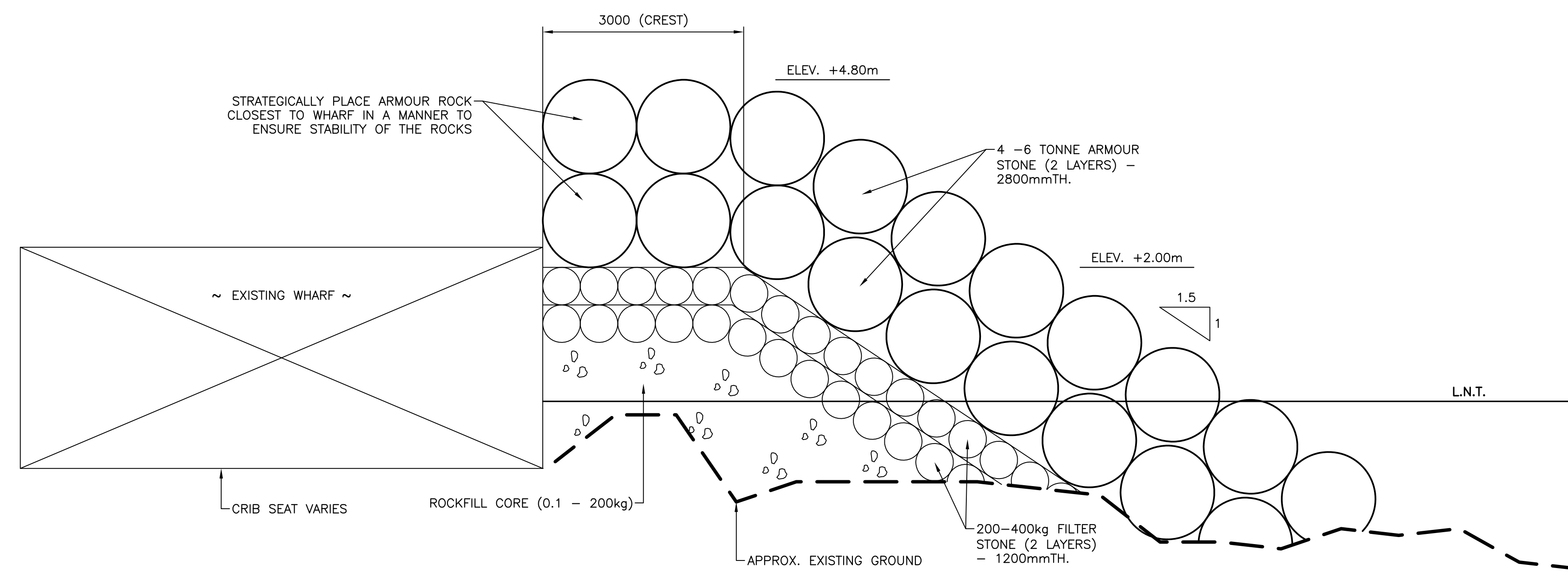


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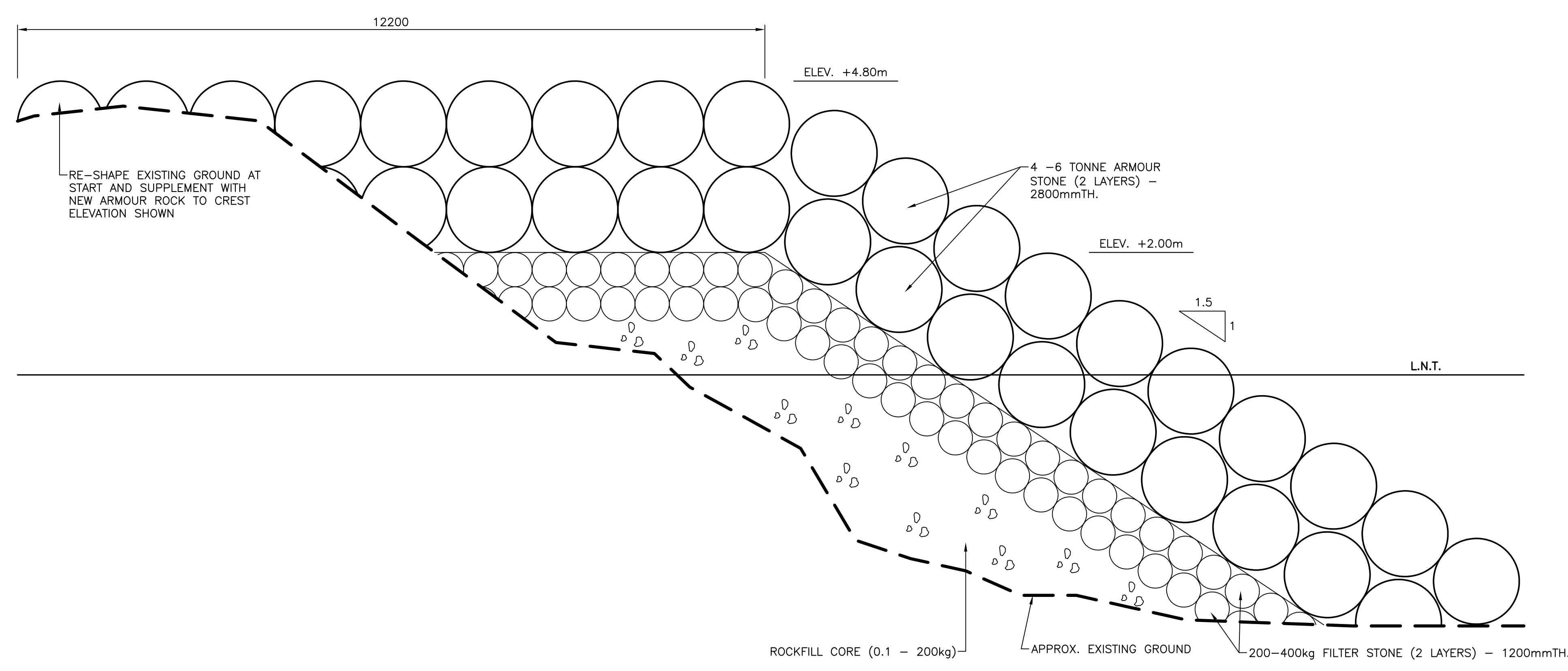
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SECTION 1
 SCALE : 1:50
 0m 1m 2m 3m 4m 5m



SECTION 2
 SCALE : 1:50
 0m 1m 2m 3m 4m 5m



SECTION 3
 SCALE : 1:50
 0m 1m 2m 3m 4m 5m

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revisions		date

project KING'S COVE HARBOUR REPAIRS
 KING'S COVE, NL

drawing NEW BREAKWATER SECTION
 dessin

designed N.H. concu
 date SEPTEMBER 14, 2020
 drawn P.H. dessine
 date SEPTEMBER 14, 2020
 approved

Tender Paul Cunn Submission
 DFO Project Manager
 project number 723422 no. du projet
 drawing no. C7 no. du dessin