



Fisheries
and Oceans

Pêches
et Océans

REAL PROPERTY SAFETY AND SECURITY

CANADIAN COAST GUARD
PORT HARDY, BC

PORT HARDY CCG SAR
FLOAT REPLACEMENT

ISSUED FOR TENDER

DRAWING LIST						
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Public Works and
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Canada

Travaux publics et
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Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest



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CONSULTING ENGINEERS
VANCOUVER, B.C.



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1	ISSUED FOR REVIEW	19/11/22
Revision/ Révision	Description/Description	Date/Date

Client/client
**Fisheries & Oceans Canada
Real Property Safety
and Security**

**200 - 401 Burrard Street
Vancouver, Canada, V6C 3S4**

Project title/Titre du projet

PORT HARDY

**PORT HARDY CCG SAR
FLOAT REPLACEMENT**

Approved by/Approuvé par
A.P.

Designed by/Concept par
A.P.

Drawn by/Dessiné par
PDM

PWGSC Project Manager/Administrateur de Projets TPSPG

PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSPG

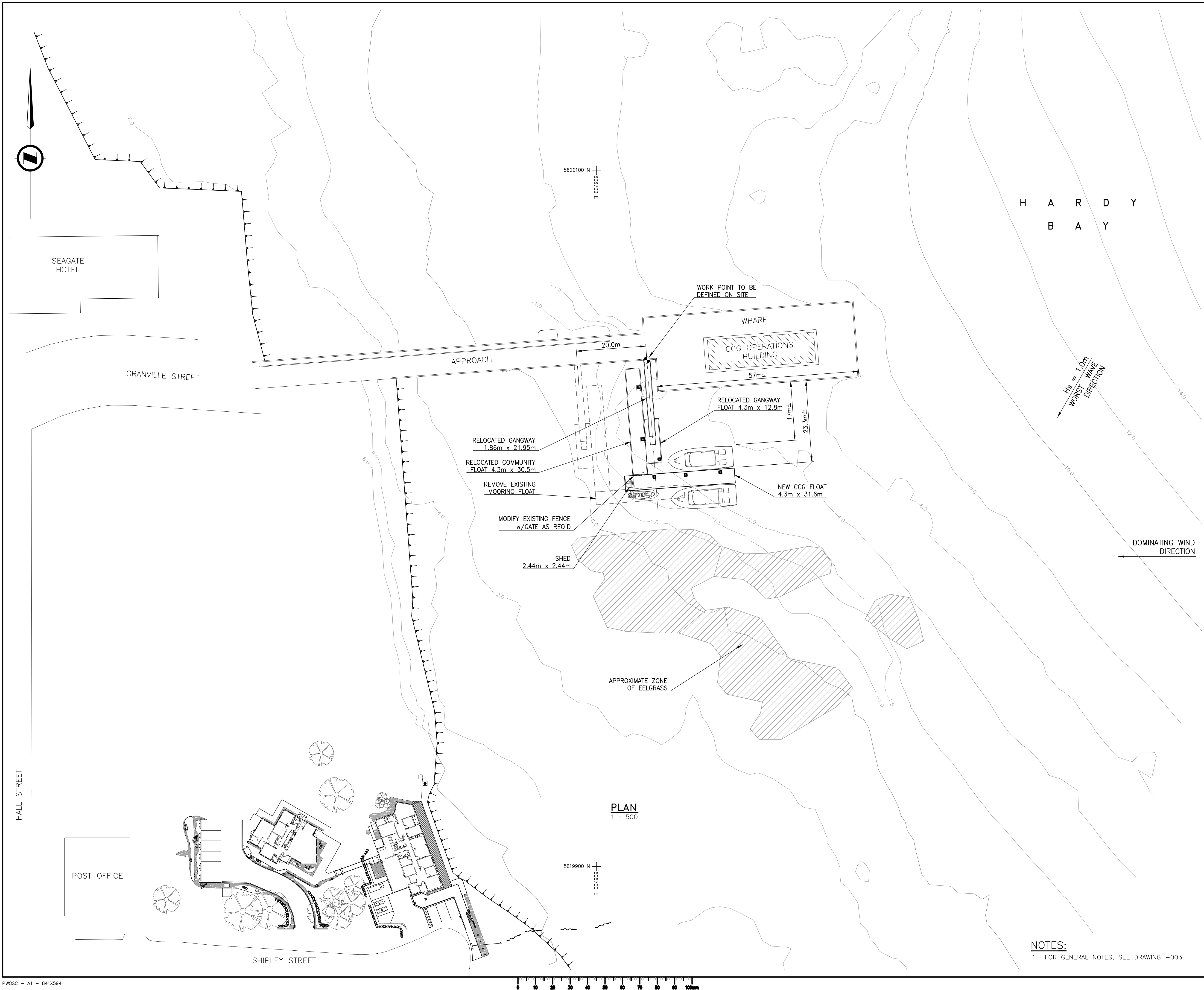
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COVER PAGE

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219122	000 OF	2








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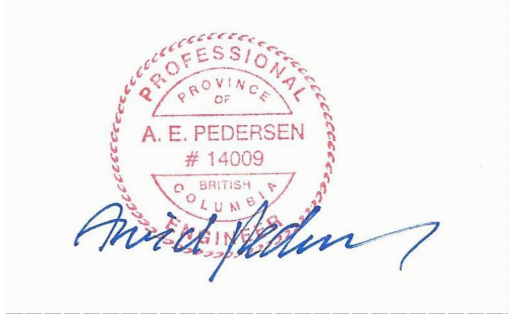
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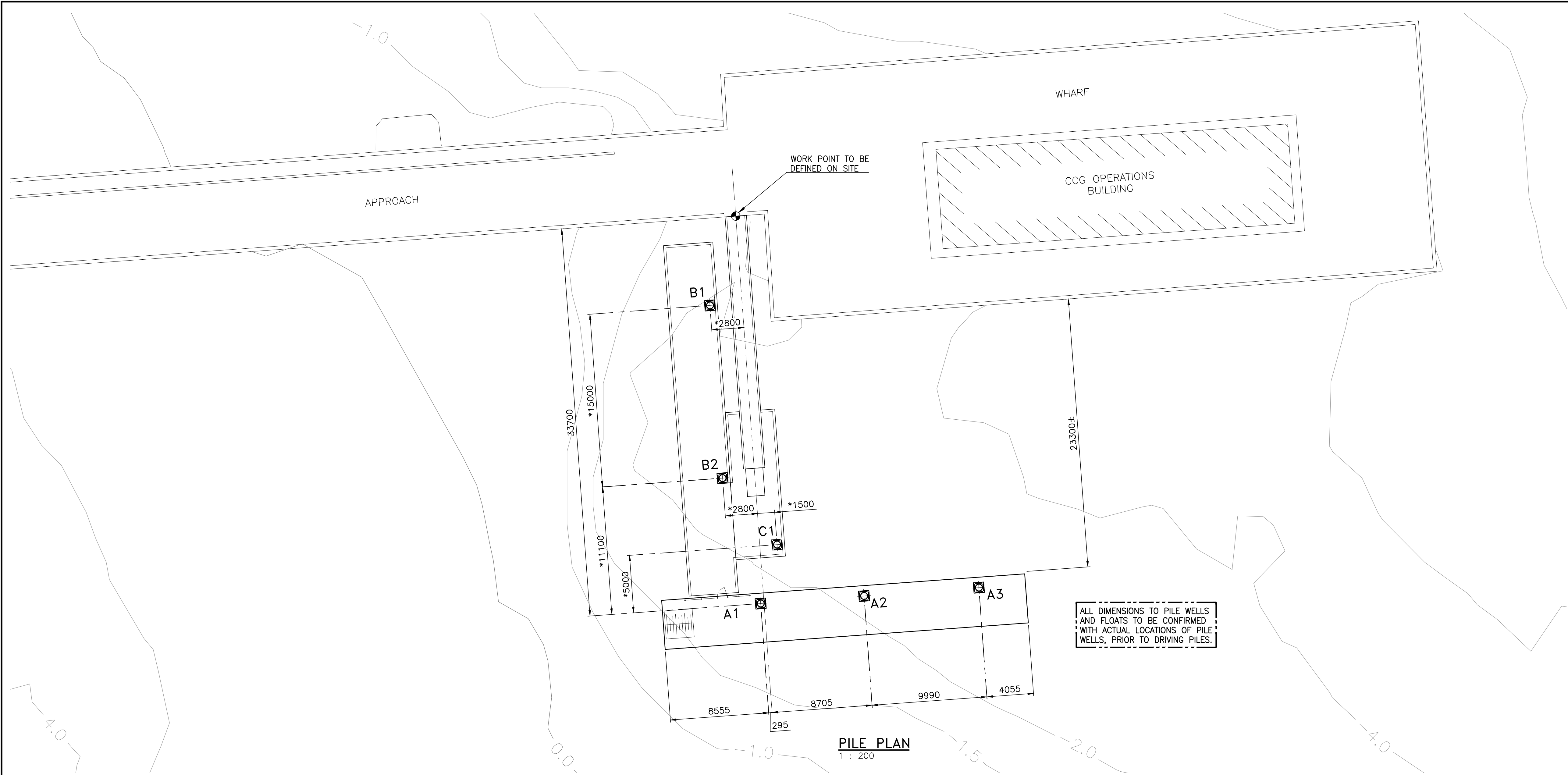
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GENERAL ARRANGEMENT

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219122	002 OF	2



DESIGN CRITERIA

1. LIVE LOAD:

a) UNIFORMLY DISTRIBUTED LIVE LOAD

4.8kPa
2. TIDES:

HIGHER HIGH WATER LEVEL (H.H.W.L.)

MEAN WATER LEVEL (M.W.L.)

LOWER LOW WATER LEVEL (L.L.W.L.)

HYDROGRAPHIC DATUM

+5.5m

+2.9m

0.0m
3. WIND: SPECIFIED WIND PRESSURE = 0.50kPa

SUMMER WIND ROSE

PORT HARDY AIRPORT

WINTER WIND ROSE

PORT HARDY AIRPORT
4. SNOW LOAD:

a) SPECIFIED GROUND SNOW LOAD:

a) SPECIFIED ASSOCIATED RAIN LOAD:

Ss = 0.9kPa

Sr = 0.4kPa

GENERAL NOTES:

- GENERAL
1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS ARE IN METRES AND ARE TO HYDROGRAPHIC DATUM.
3. BATHYMETRY BASED ON HYDROGRAPHIC SURVEY BY PSPC,
4. DRAWING SK#5686.01 DATED 2019-05-13/14.

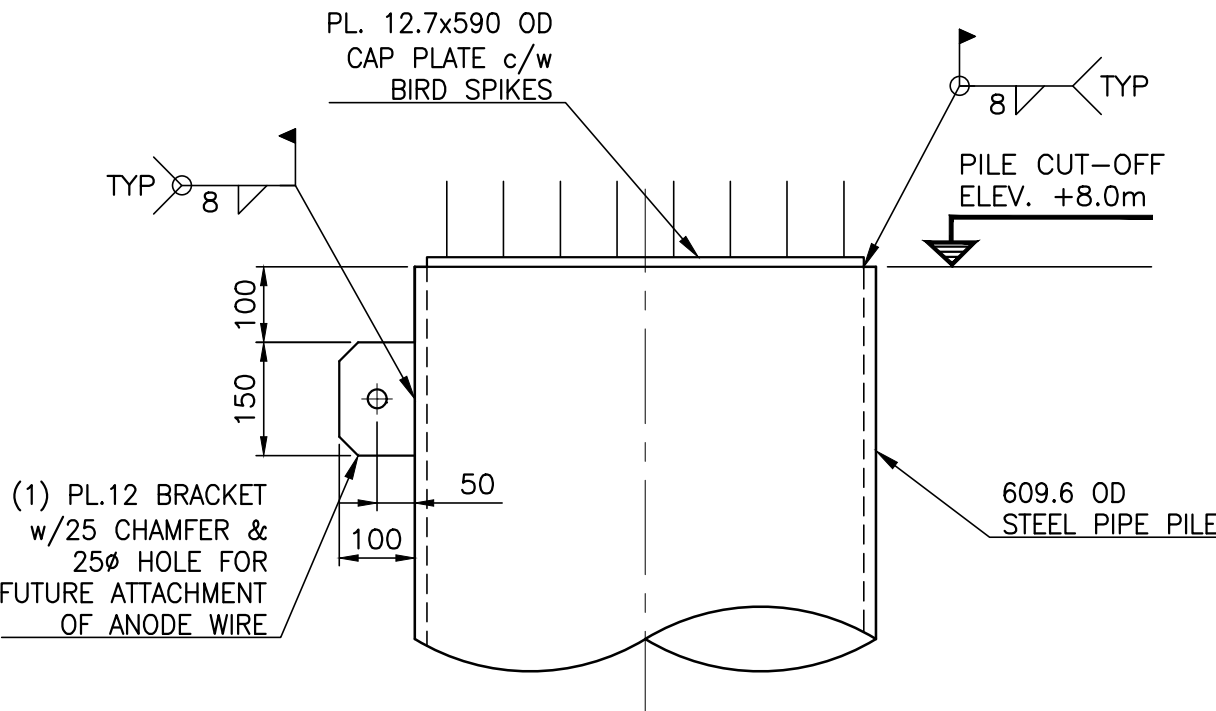


TABLE #1:

PILE TABLE					
PILE	PILE SIZE (mm)	CUT OFF ELEVATION	ESTIMATED SEABED ELEV.	ESTIMATED TIP. ELEV.	MINIMUM PENETRATION INTO BEDROCK
A1	609.6x12.7	+8.0m	-2.0m	-10.0m	SEE TABLE #2
A2	609.6x12.7	+8.0m	-2.0m	-10.0m	
A3	609.6x12.7	+8.0m	-3.0m	-11.0m	
B1	609.6x12.7	+8.0m	-2.0m	-10.0m	
B2	609.6x12.7	+8.0m	-2.5m	-10.5m	
C1	609.6x12.7	+8.0m	-2.0m	-10.0m	

TABLE #2:

MINIMUM PENETRATION INTO BEDROCK	
PILE PENETRATION IN OVERBURDEN	609.6x12.7 PILES
8.0m	0.0m
7.0m	0.4m
6.0m	0.8m
5.0m	1.2m
4.0m	1.6m
3.0m OR LESS	2.1m

Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES

Western Region

SERVICES IMMOBILIERS

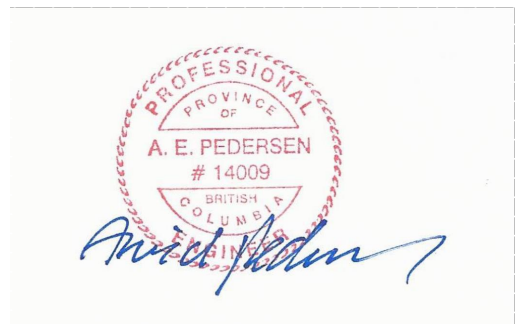
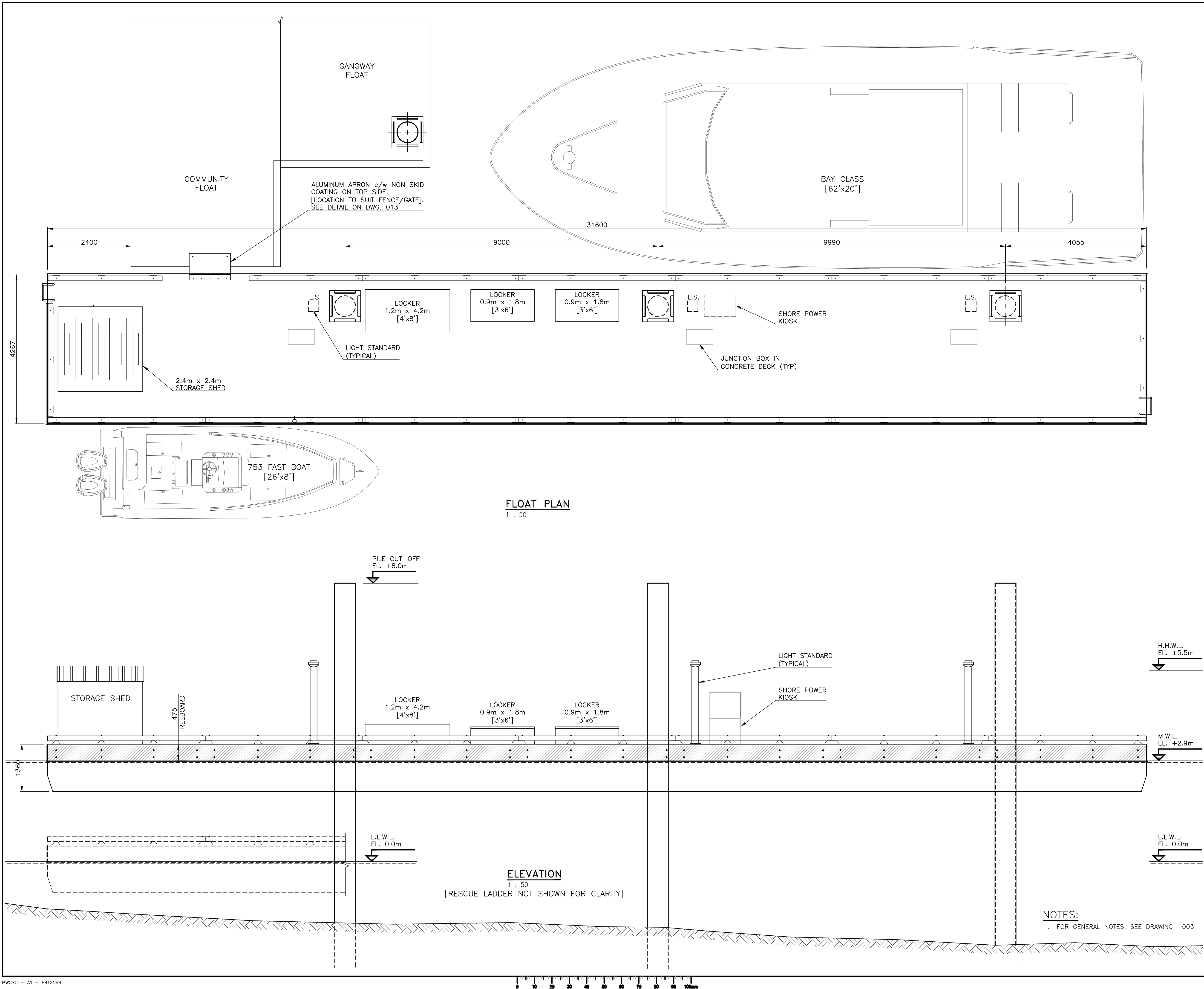
Région de l'ouest

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Project title/Titre du projet		
PORT HARDY		
PORT HARDY CCG SAR		
FLOAT REPLACEMENT		
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A.P.		
Drawn by/Dessiné par		
PDM		
PWGSC Project Manager/Administrateur de Projets TPSCG		
PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSCG		
Client/client		
VJA		
Drawing title/Titre du dessin		
PILE PLAN		
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
219122	003	2
	OF	



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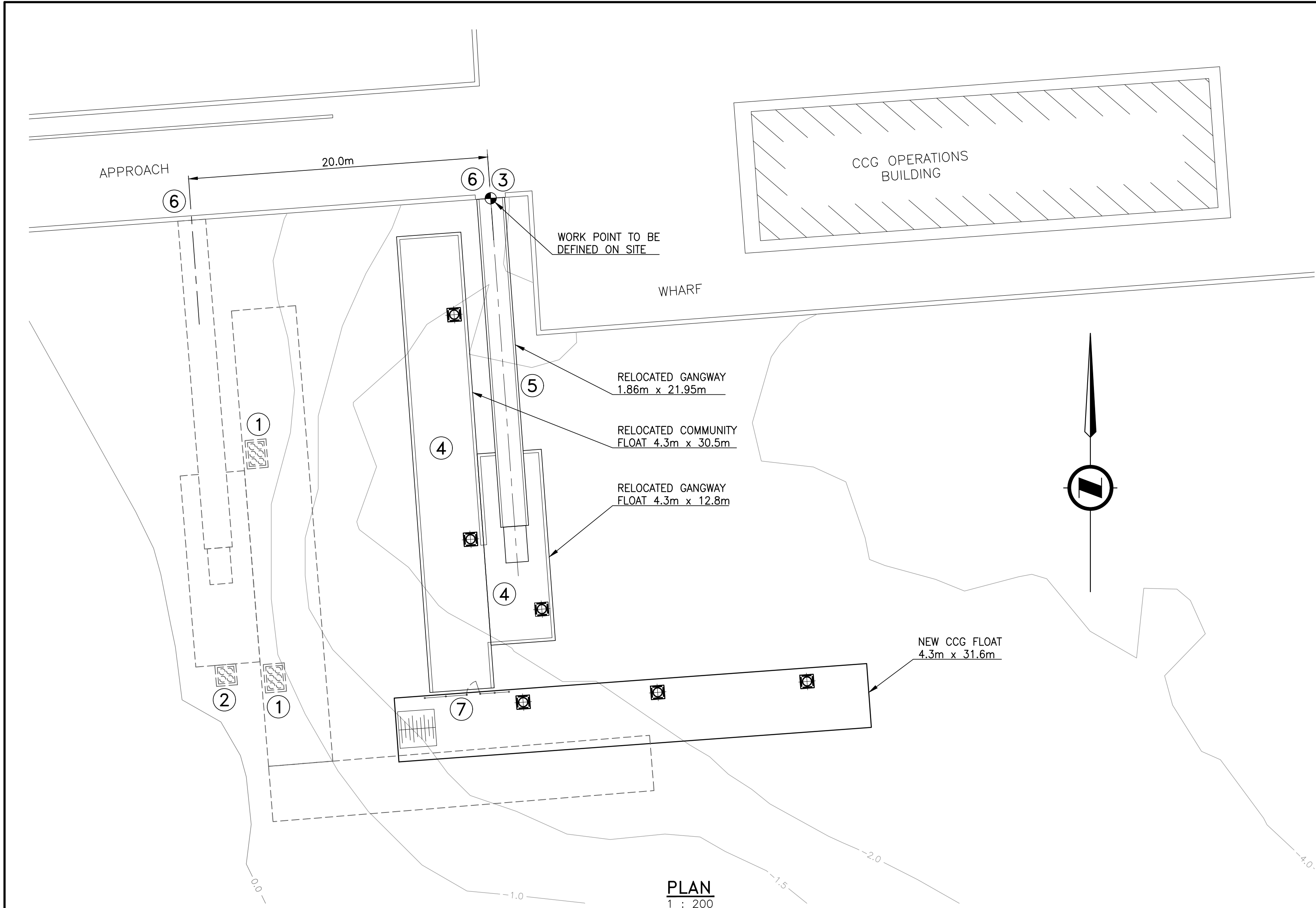
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VJA

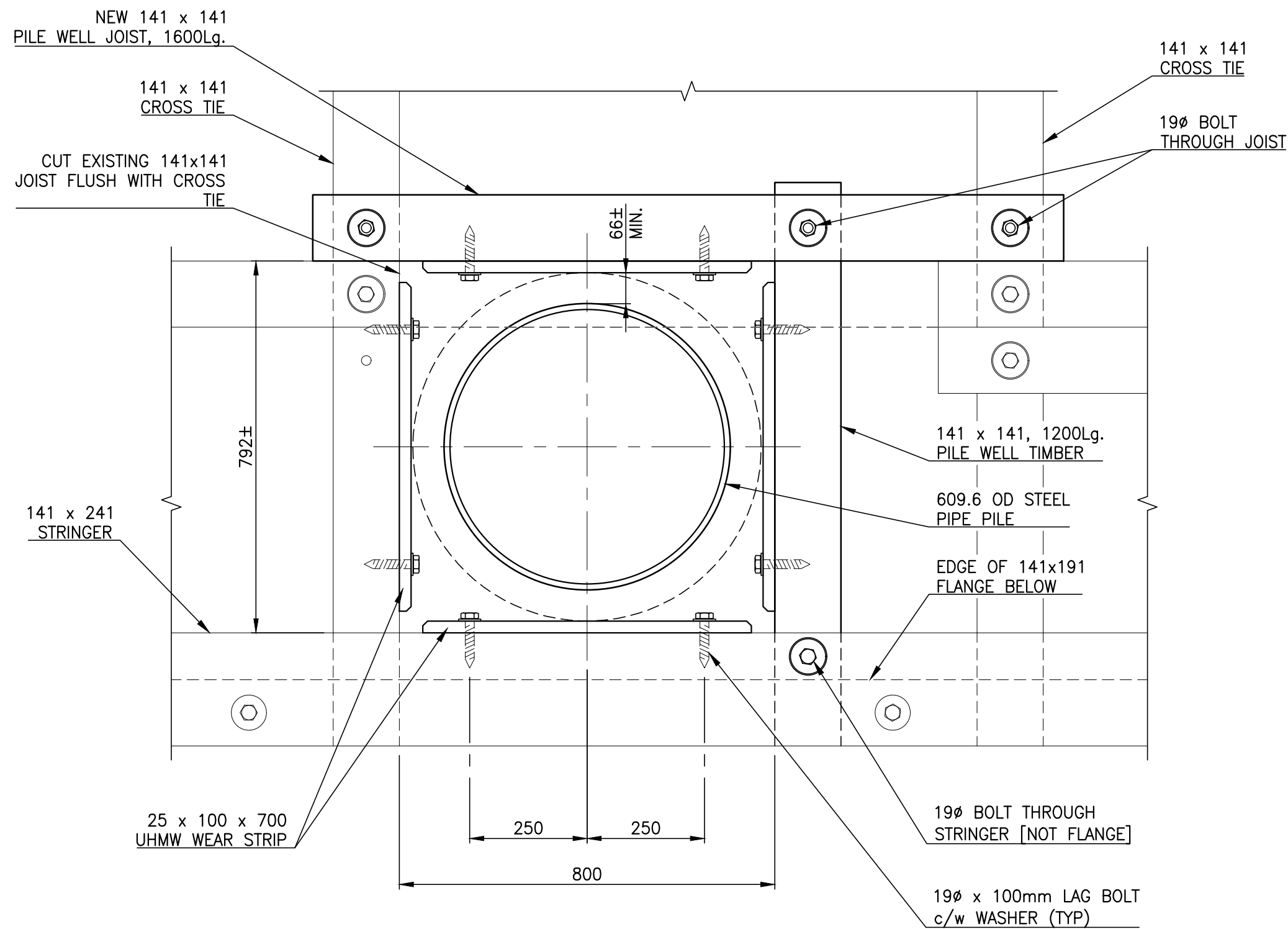
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CONCRETE FLOAT
GENERAL ARRANGEMENT

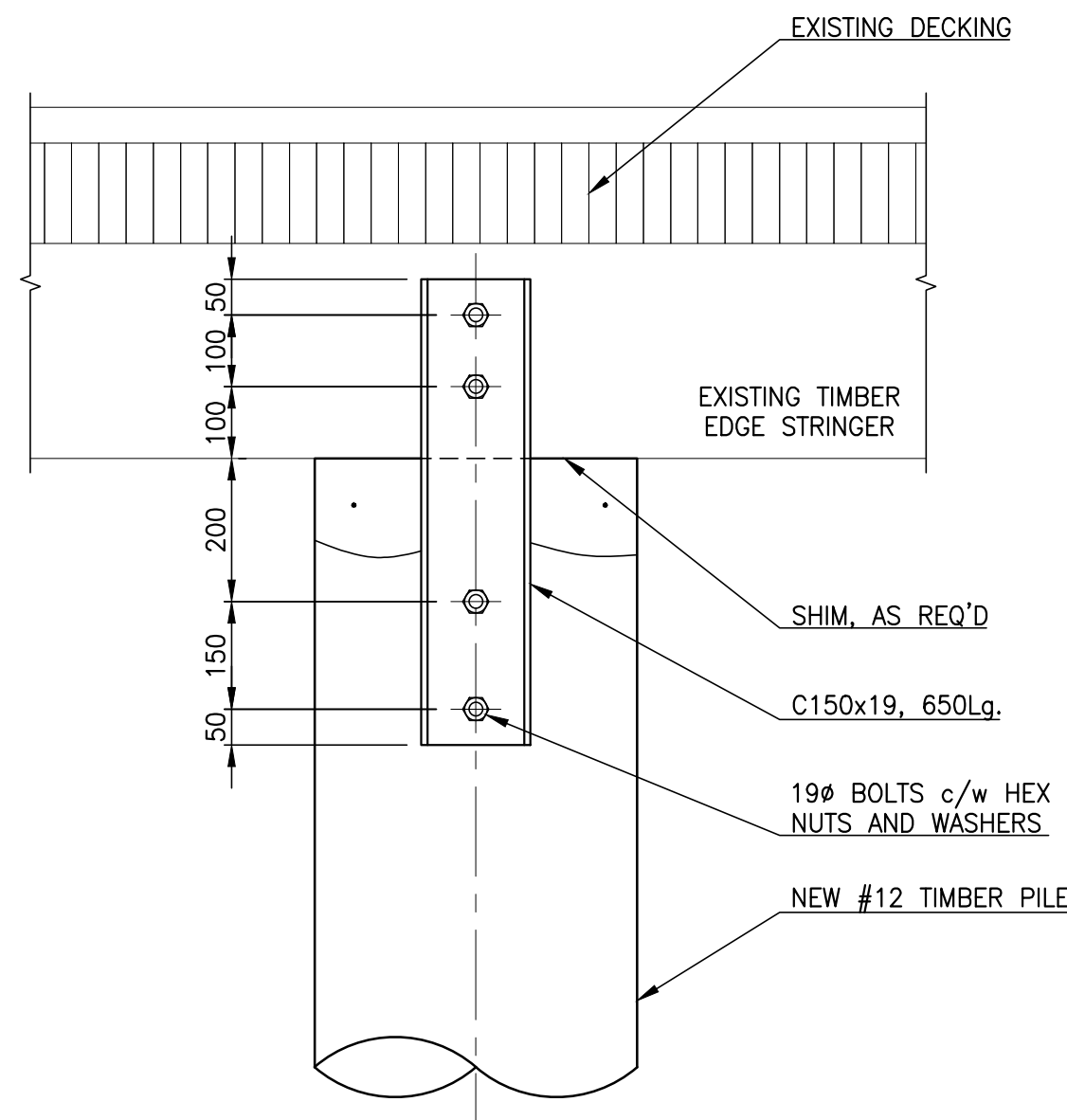
Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
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PLAN
1 : 200



DETAIL A
1 : 10



DETAIL B
1 : 10

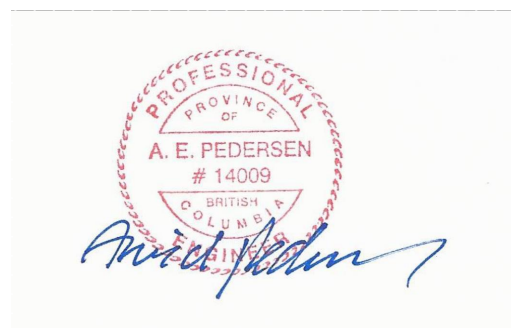


EXISTING WHARF HANDRAIL [FOR REFERENCE ONLY]

GANGWAY AND TIMBER FLOAT MODIFICATIONS

ITEM	DESCRIPTION OF MODIFICATIONS
1.	(6) EXISTING TIMBER DOLPHIN PILES TO BE EXTRACTED. EXISTING PILE WELL TO BE MODIFIED AS SHOWN ON DETAIL A. DECK TO BE PATCHED WITH SUPPORT TIMBER AND DECK PLANKS TO MATCH EXISTING FLOAT.
2.	(4) EXISTING TIMBER DOLPHIN PILES TO BE EXTRACTED. EXISTING EXTERNAL PILE WELL TO BE REMOVED AND FLOAT MODIFIED WITH NEW PILE WELL AS SHOWN ON DETAIL A.
3.	SUPPLY AND INSTALL 15m LONG #12 TIMBER PILE AT NEW GANGWAY LOCATION AS DIRECTED ON SITE. PILE TO BE DRIVEN TO REFUSAL OR A MINIMUM PENETRATION OF 7m. PILE TO BE CENTERED UNDER AND FASTENED TO EDGE STRINGER AS SHOWN ON DETAIL B.
4.	RELOCATE EXISTING TIMBER FLOATS AS SHOWN. FLOATS TO BE SECURED BY STEEL PILE DOLPHIN PILES B1, B2 & C1 AS SHOWN ON DRAWING 219122-003. EXISTING CONNECTION BETWEEN THE FLOATS TO BE REINSTALLED AND TIMBER TIE-RAILS MODIFIED TO MATCH NEW CONNECTION BETWEEN THE FLOATS.
5.	RELOCATE THE EXISTING GANGWAY COMPLETE WITH GANGWAY HINGES AND APRON. EXISTING GANGWAY LANDING PAD AND GUIDE ON THE GANGWAY FLOAT TO BE REUSED.
6.	CLOSE OPENING IN STEEL RAILING AT EXISTING GANGWAY LOCATION AND PREPARE OPENING AT THE NEW GANGWAY LOCATION. NEW RAILING TO MATCH EXISTING RAILING.
7.	REINSTALL SECURITY FENCE WITH GATE AND INSTALL TRANSITION APRON AND (4) TIRE FENDERS BETWEEN COMMUNITY FLOAT AND NEW CCG FLOAT AND TRANSFER EXISTING SERVICES INCLUDING ELECTRICAL SERVICES, STORAGE SHEDS AND LOCKERS.

NOTES:
1. FOR GENERAL NOTES, SEE DRAWING -003.



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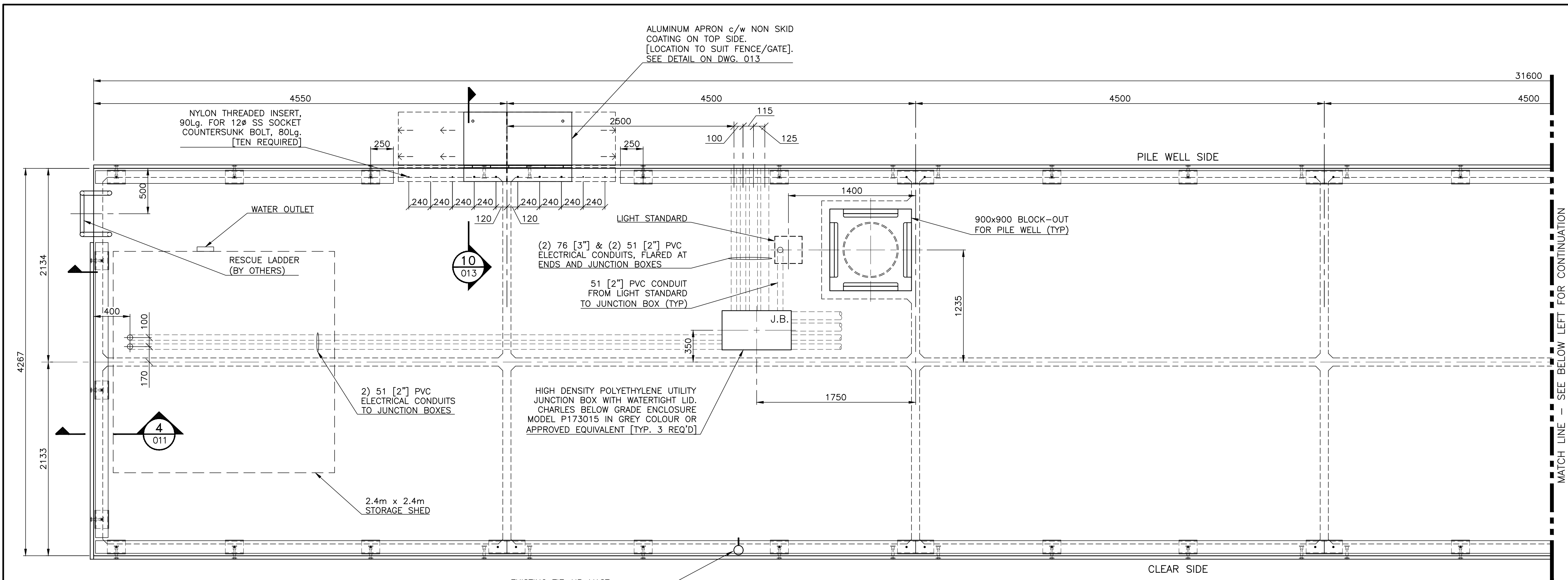
Fisheries & Oceans Canada
Real Property Safety and Security
200 - 401 Burrard Street
Vancouver, Canada, V6C 3S4

Project title/Titre du projet
PORT HARDY
PORT HARDY CCG SAR
FLOAT REPLACEMENT

Approved by/Approuve par
A.P.
Designed by/Concept par
A.P.
Drawn by/Dessine par
PDM
PWGSC Project Manager/Administrateur de Projets TPSCG
PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSCG
Client/client
VJA

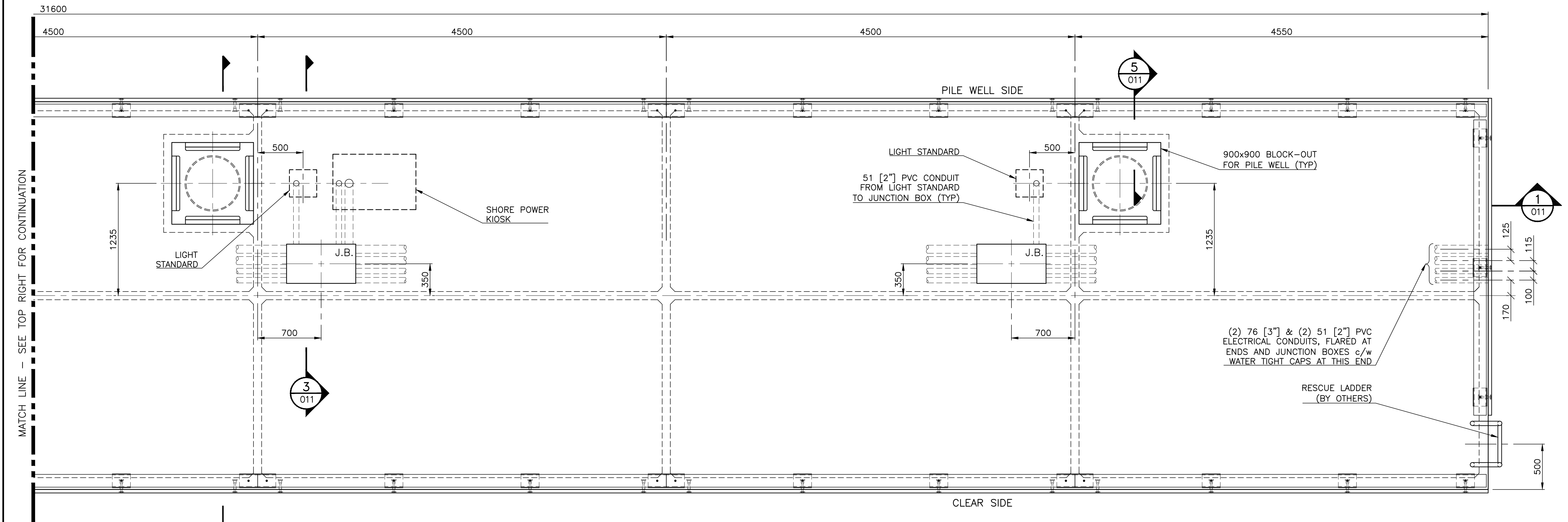
Drawing title/Titre du dessin
GANGWAY AND FLOAT
RELOCATION PLAN

Project No./No. du projet 219122	Sheet/Feuille 005 OF	Revision no./La Révision no. 2
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PLAN (WEST END)

1 : 25
[PILE WELL GUARDRAIL NOT SHOWN FOR CLARITY]



PLAN (EAST END)

1 : 25
[PILE WELL GUARDRAIL NOT SHOWN FOR CLARITY]

NOTES:
1. FOR GENERAL NOTES, SEE DRAWING -003.

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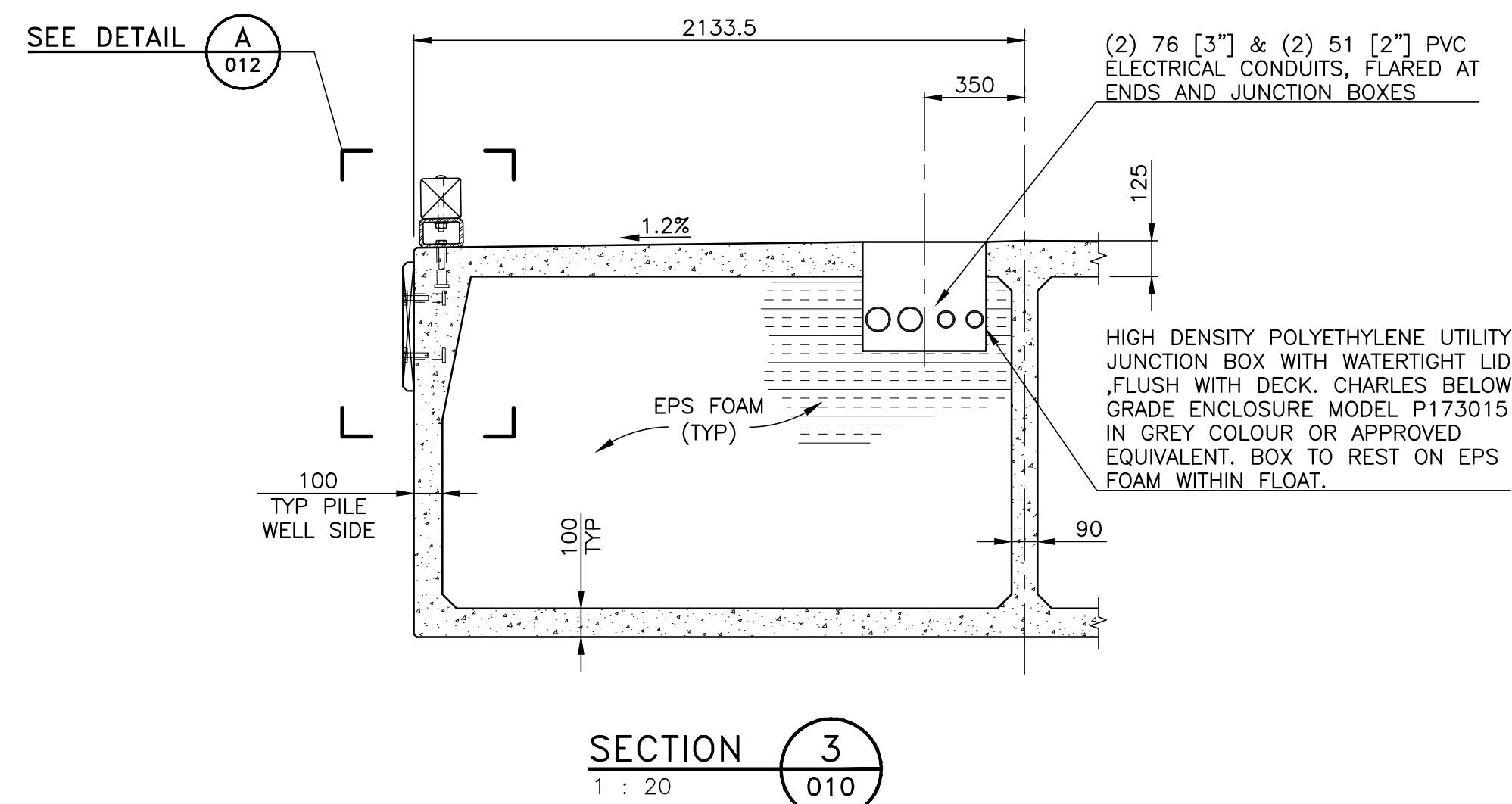
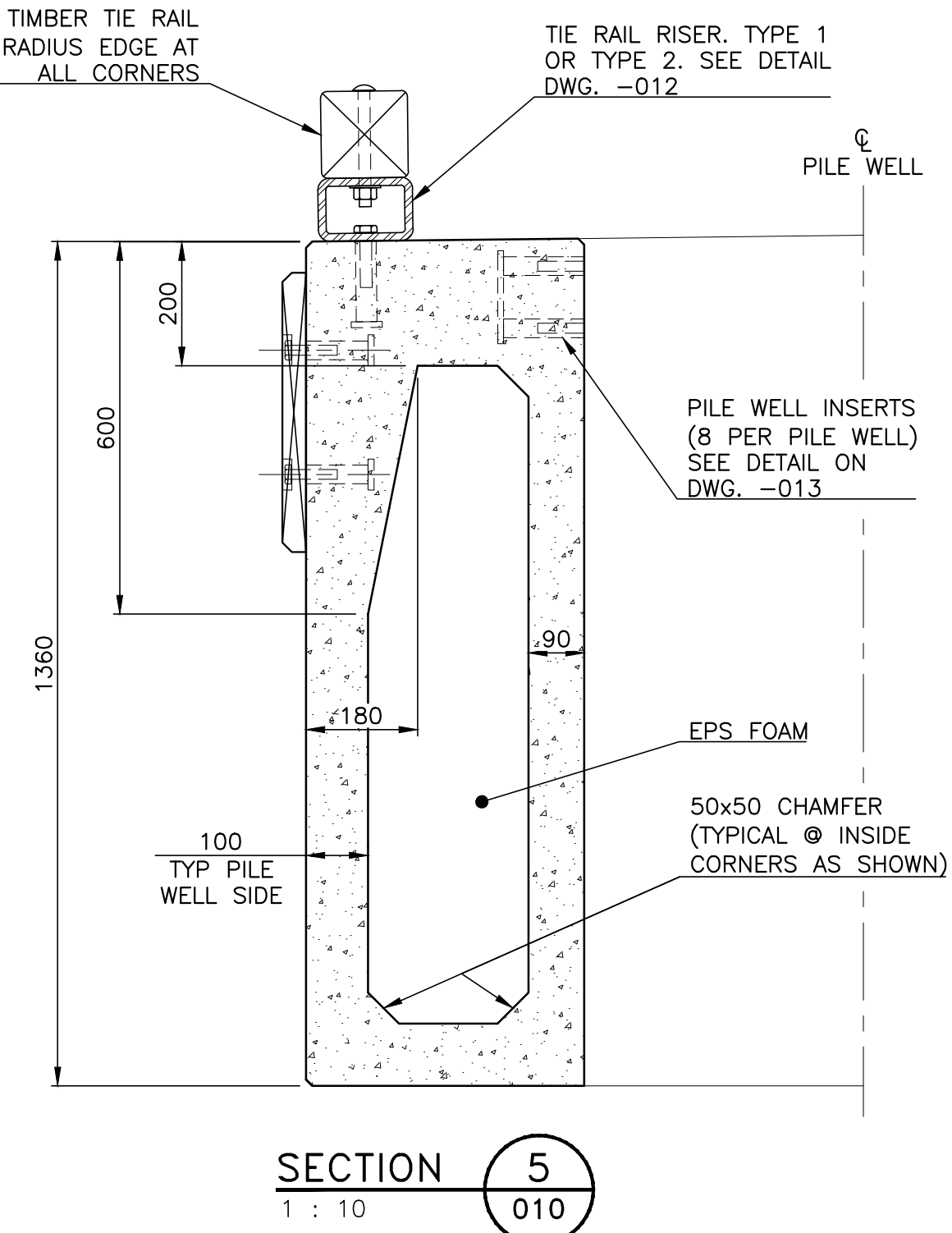
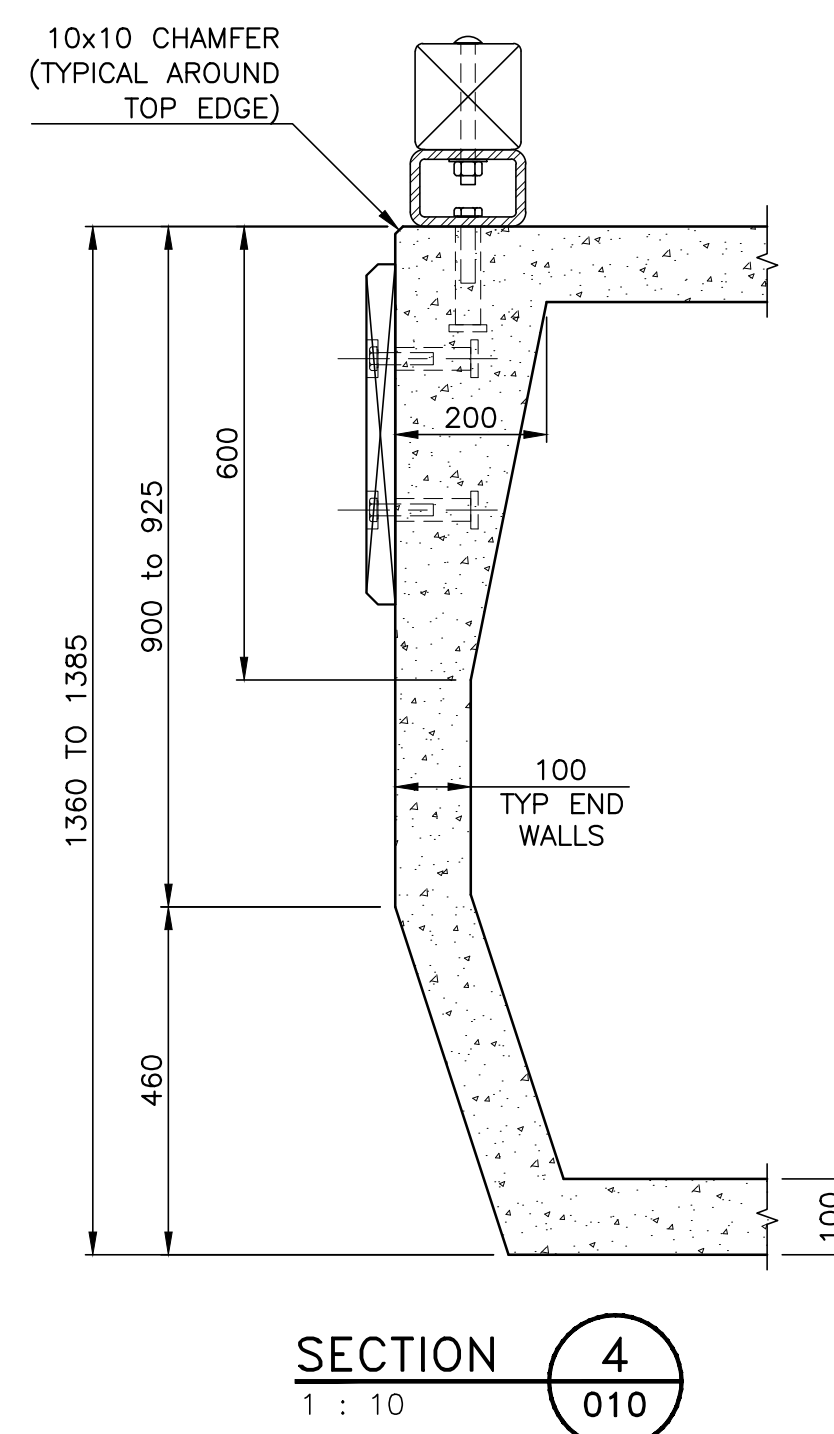
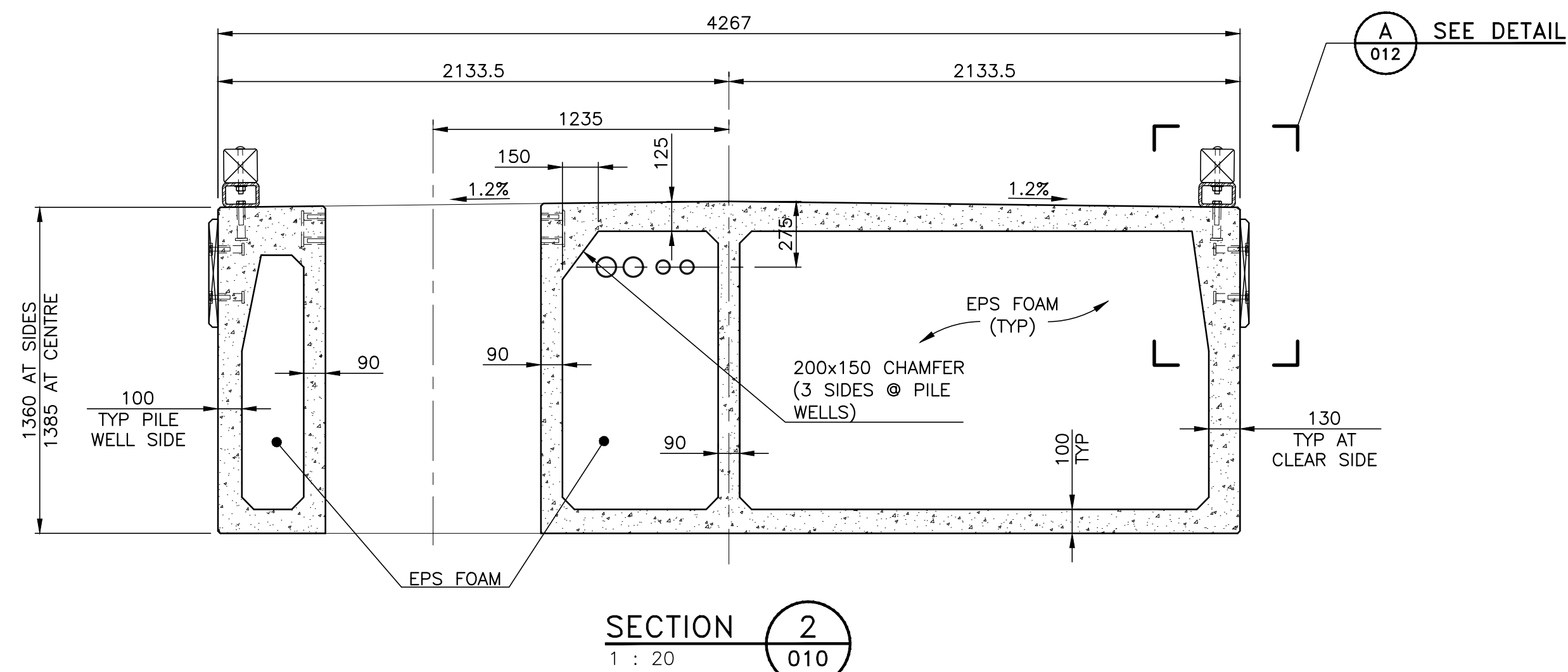
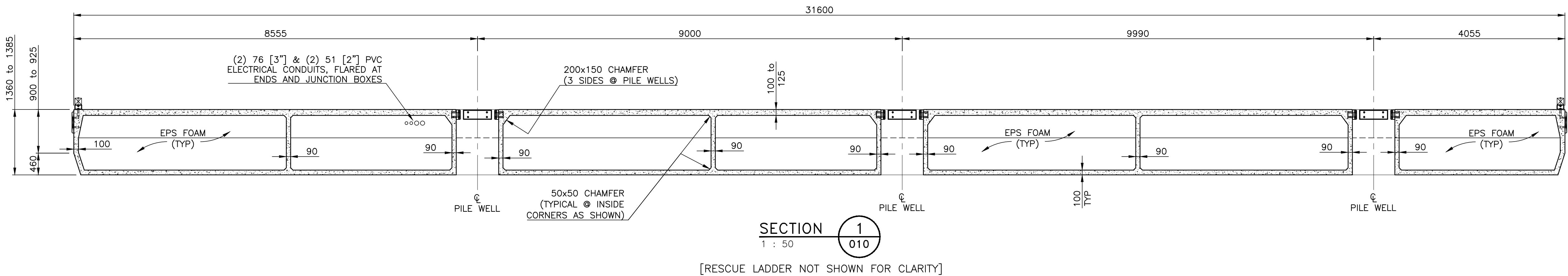
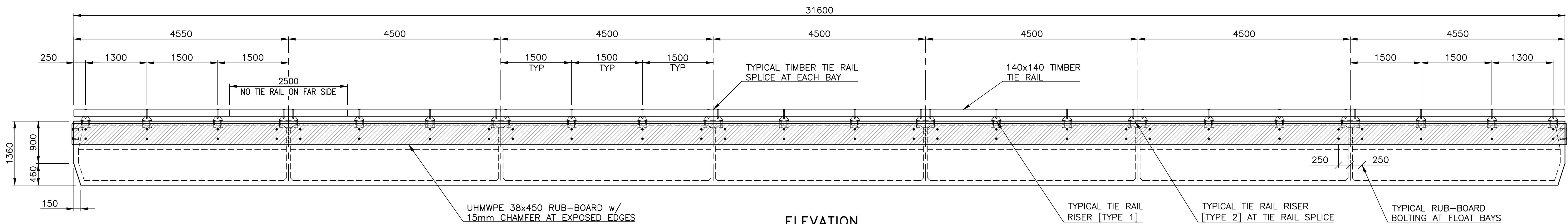
PWGSC, Architectural and Engineering Resources Manager/
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Drawing title/Titre du dessin

CONCRETE FLOAT
PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
219122	010 OF	2



NOTES:
1. FOR GENERAL NOTES, SEE DRAWING -003.

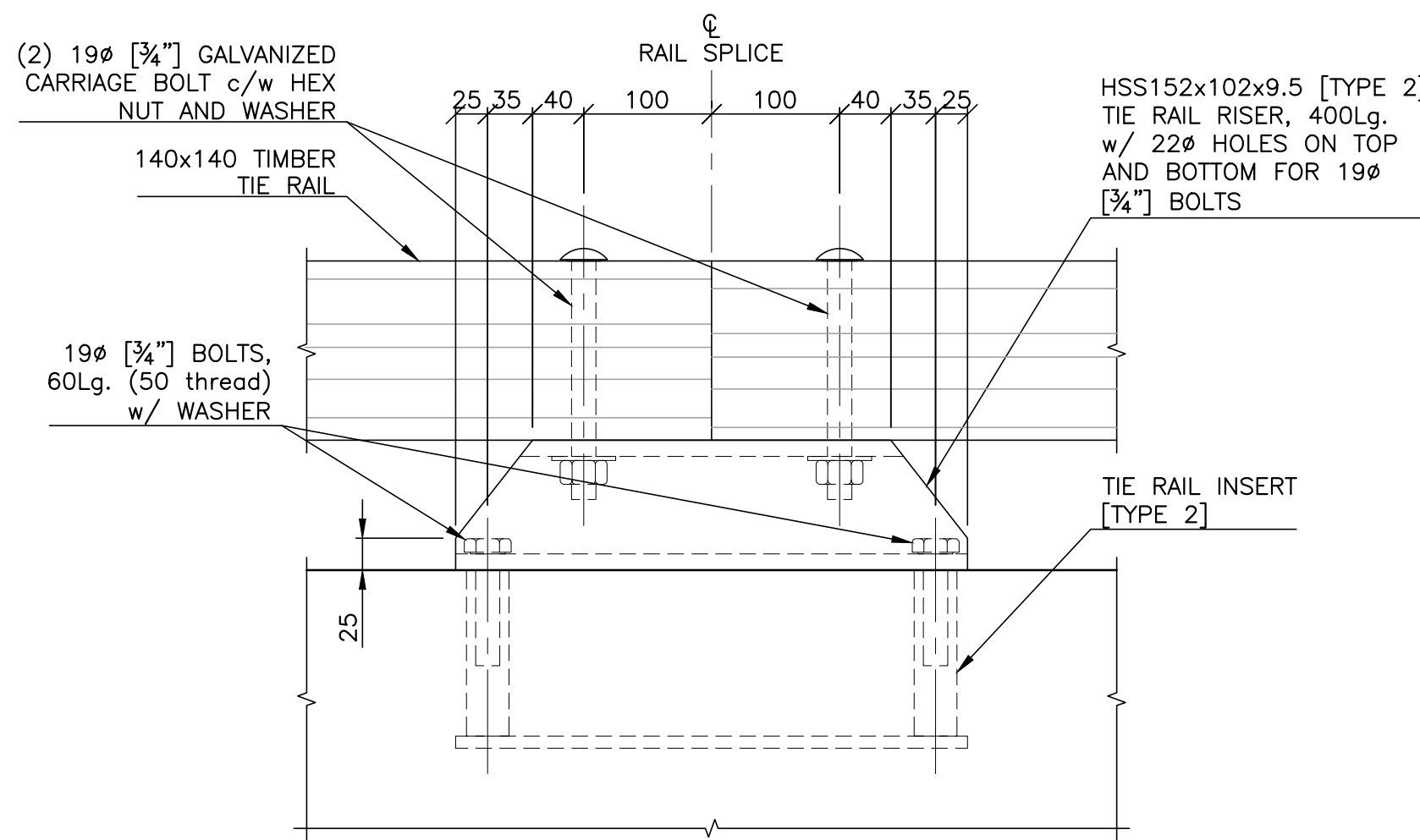
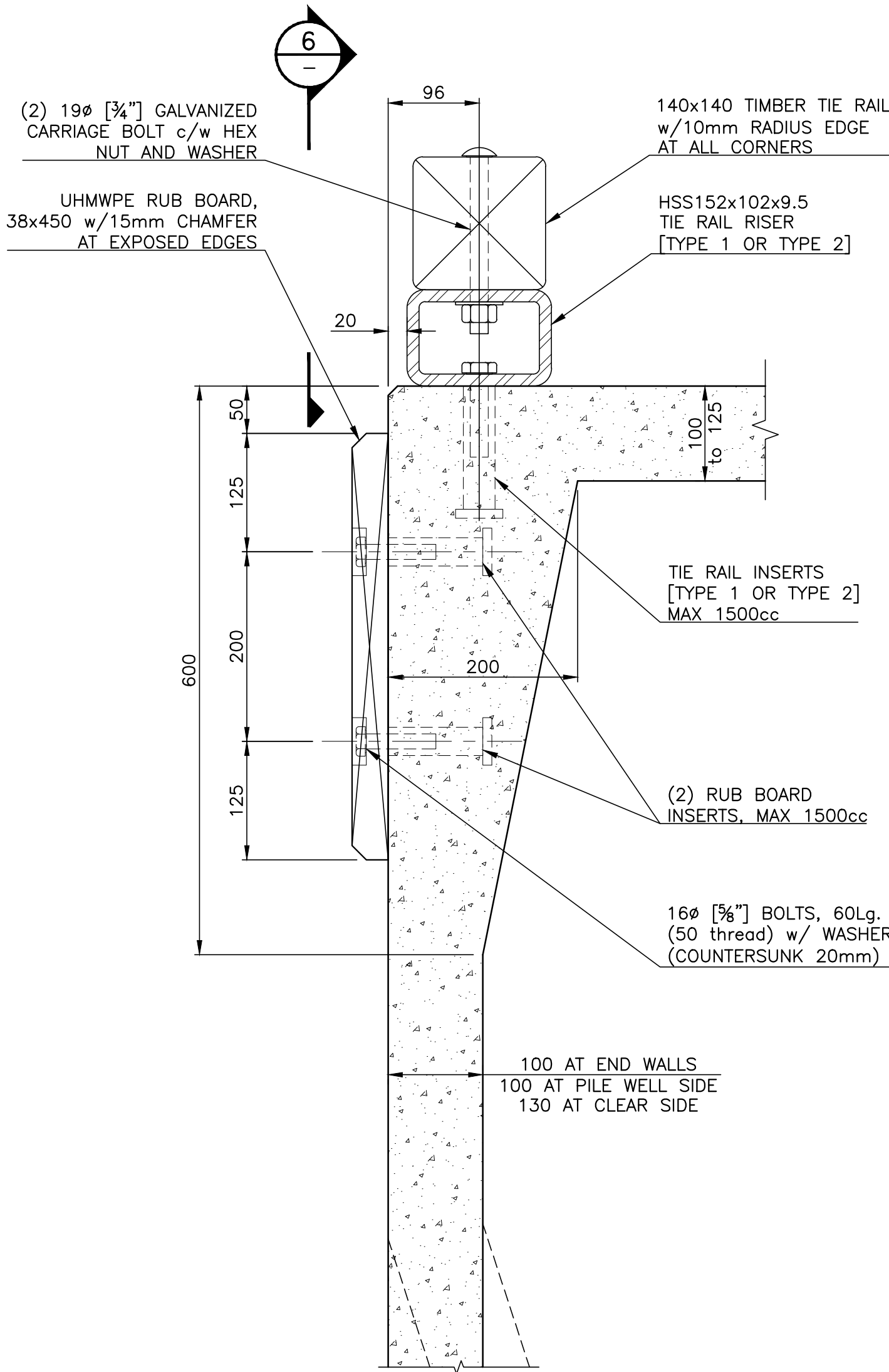
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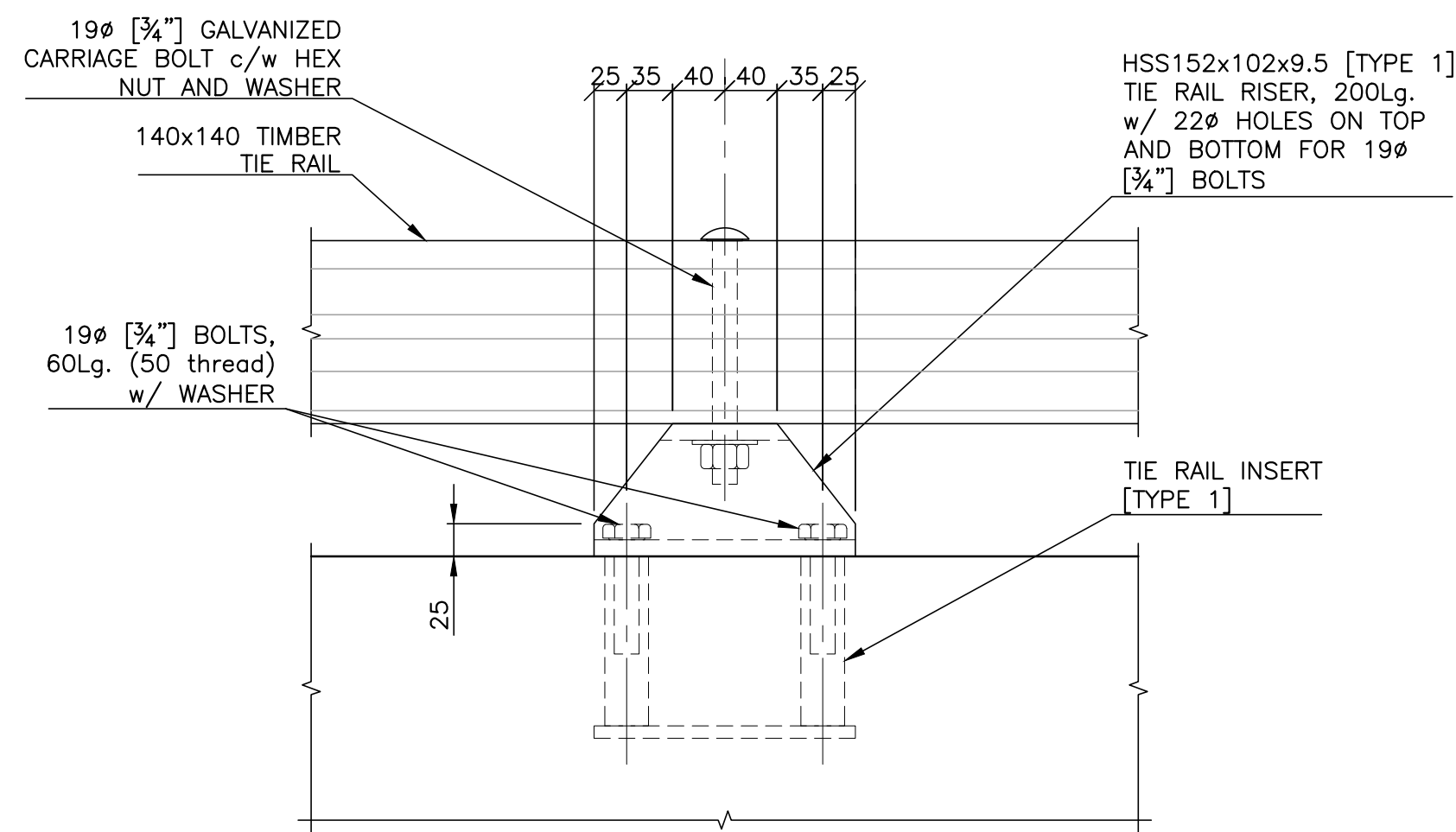
Project title/Titre du projet
PORT HARDY
PORT HARDY CCG SAR
FLOAT REPLACEMENT

Approved by/Approuvé par
A.P.
Designed by/Concept par
A.P.
Drawn by/Dessiné par
PDM
PWSC Project Manager/Administrateur de Projets TPSCG
PWSC, Architectural and Engineering Resources Manager/
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Client/client
VJA
Drawing title/Titre du dessin
CONCRETE FLOAT
SECTIONS AND ELEVATION

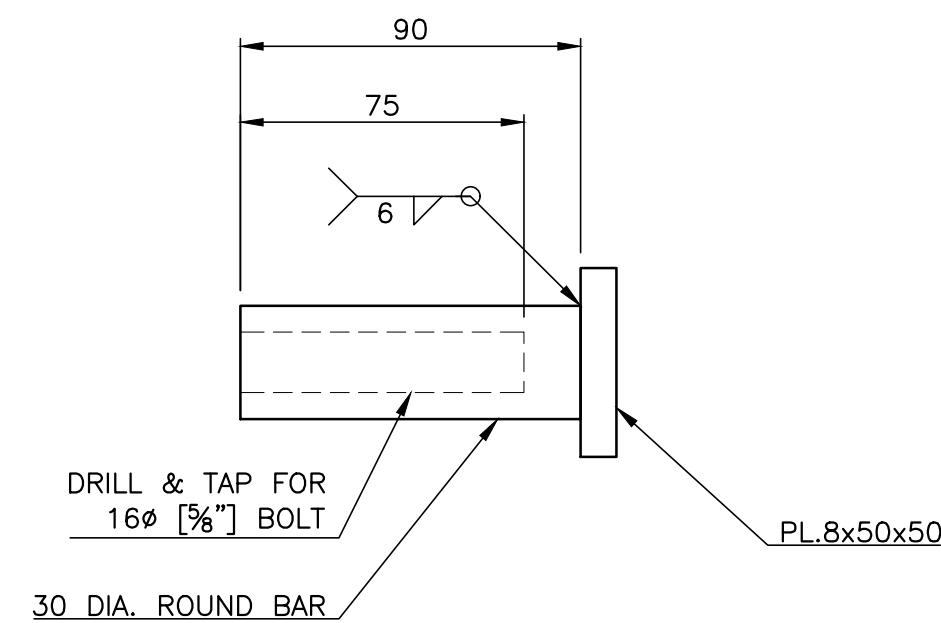
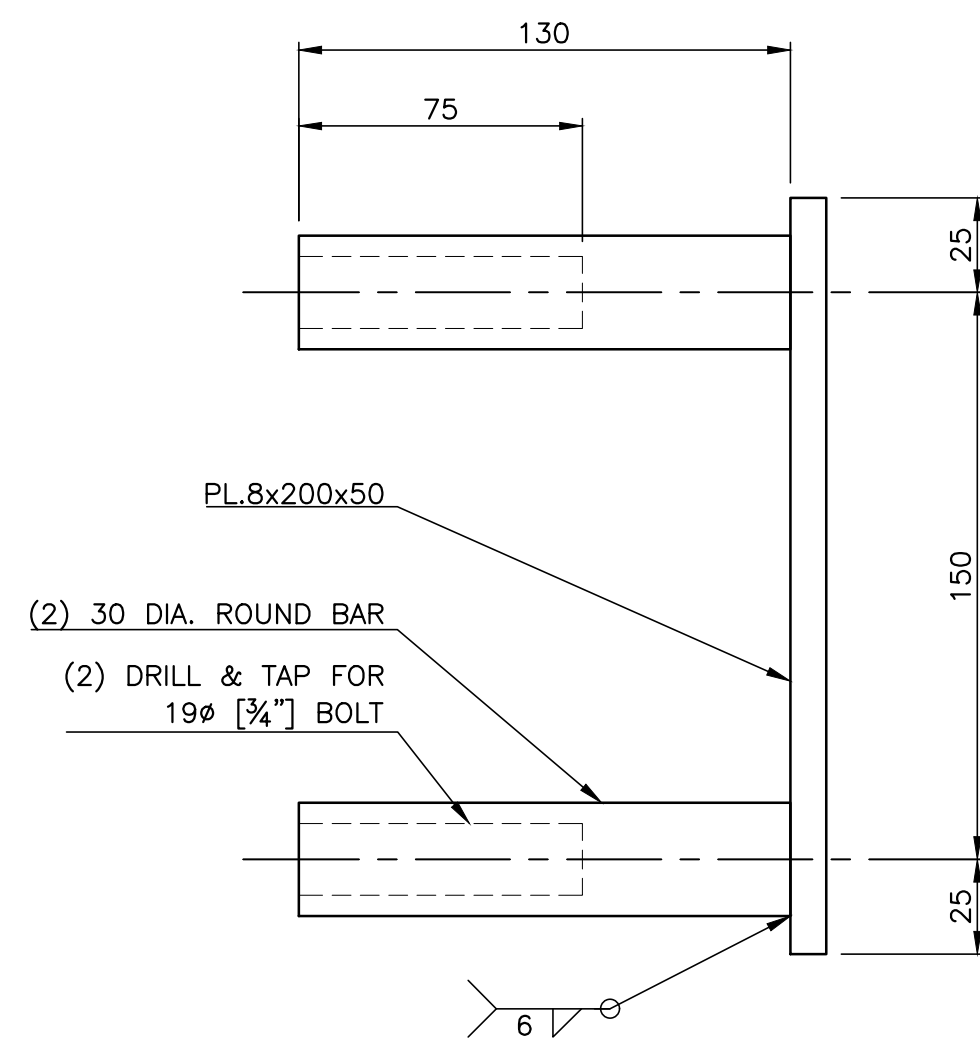
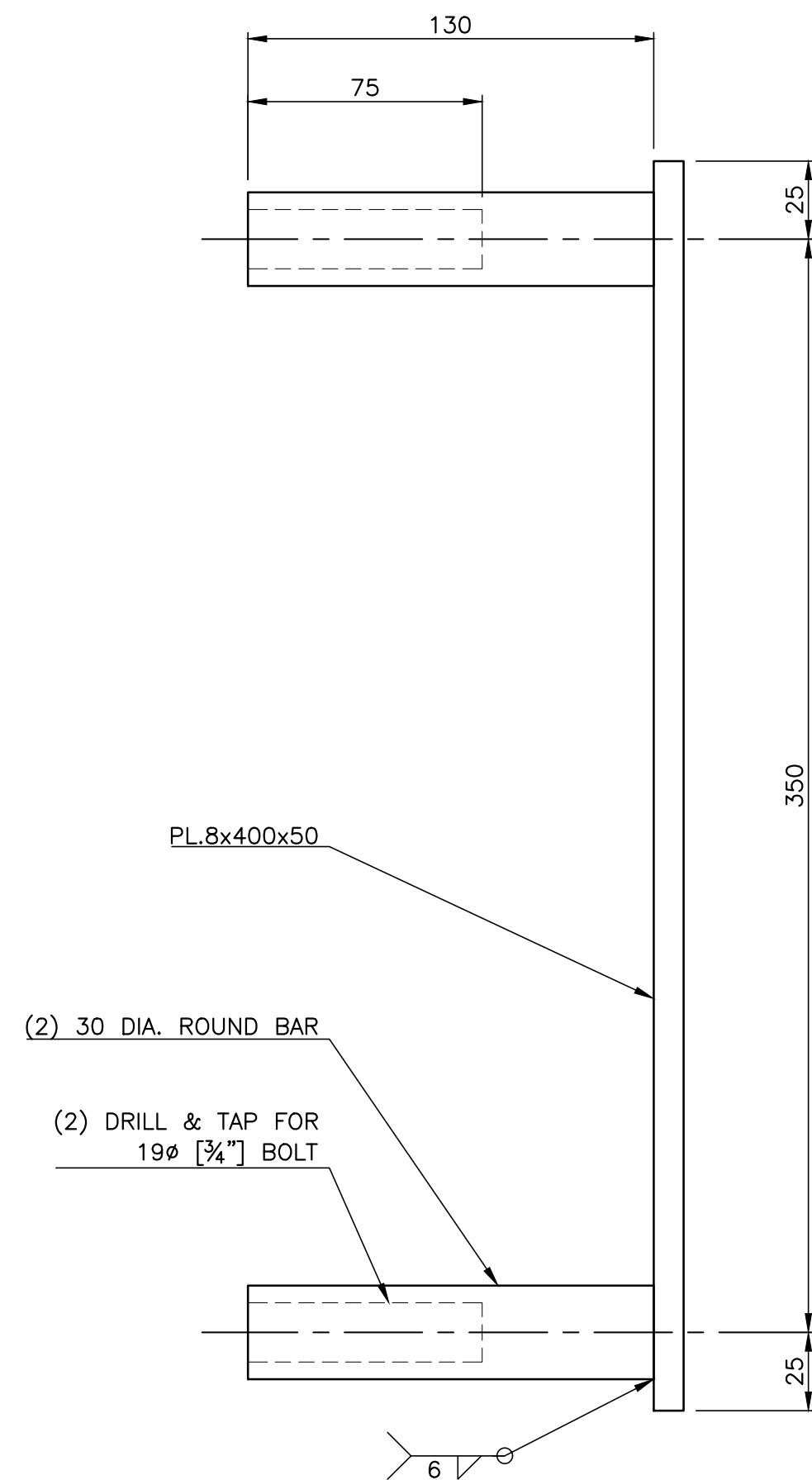
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
219122	011 OF	2



TIE RAIL RISER TYPE 2 [AT TIE RAIL SPLICE]



TIE RAIL RISER TYPE 1 [AT 1500cc MAX]



NOTES:
1. FOR GENERAL NOTES, SEE DRAWING -003.

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CONCRETE FLOAT
SECTIONS AND DETAILS
SHEET 1 of 2

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
219122	012 OF	2

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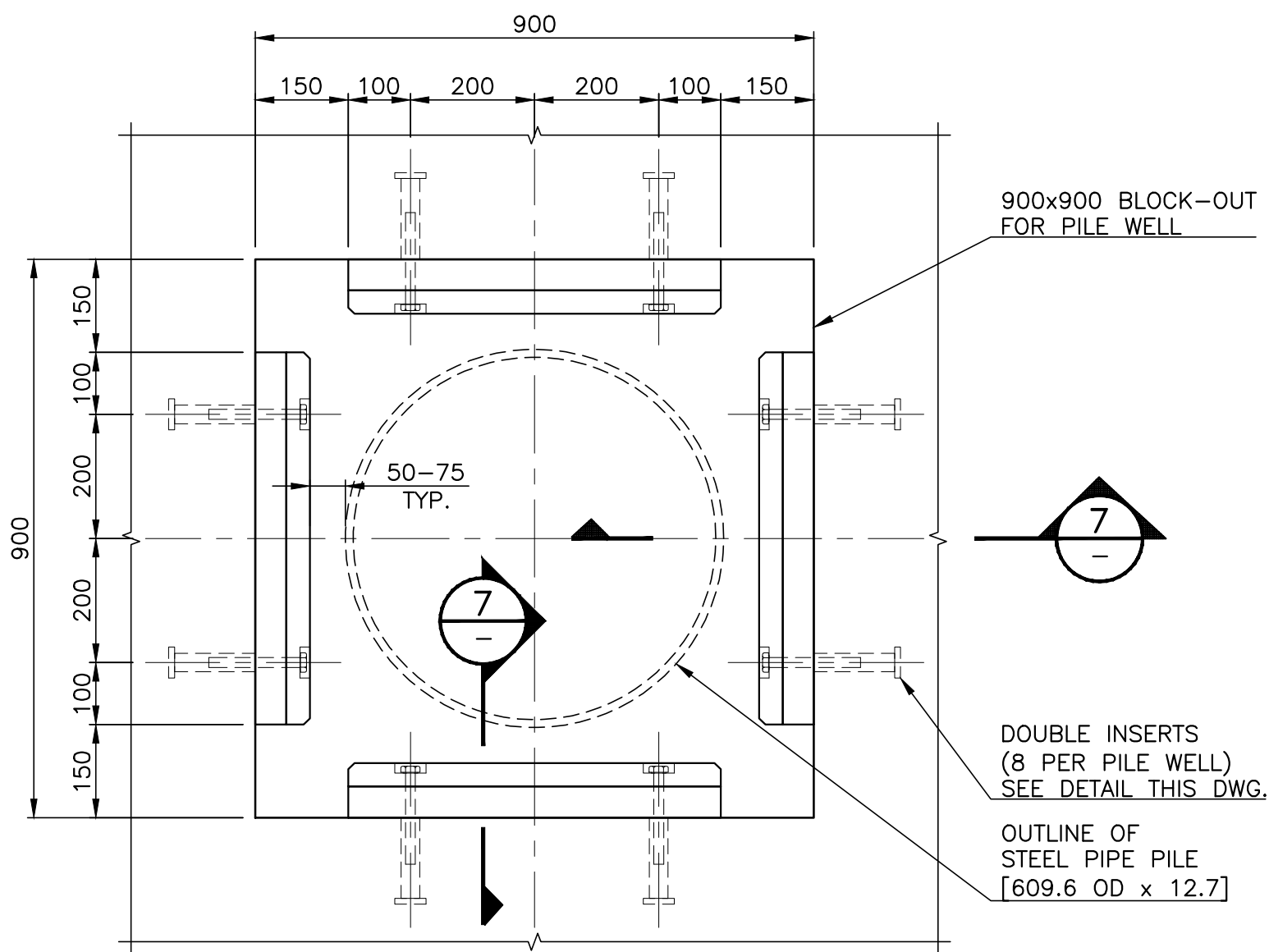
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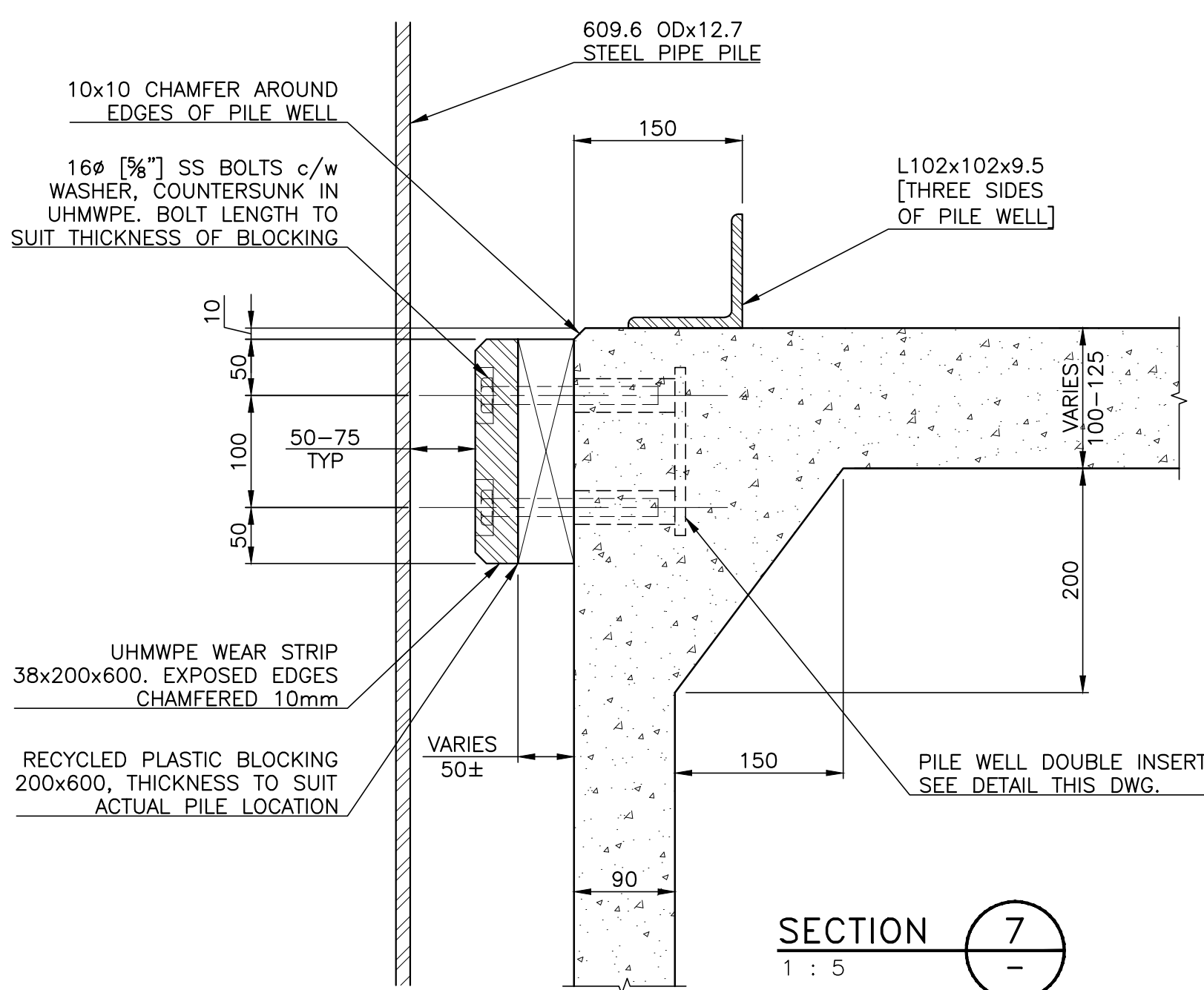
Drawing title/Titre du dessin

**CONCRETE FLOAT
SECTIONS AND DETAILS
SHEET 2 of 2**

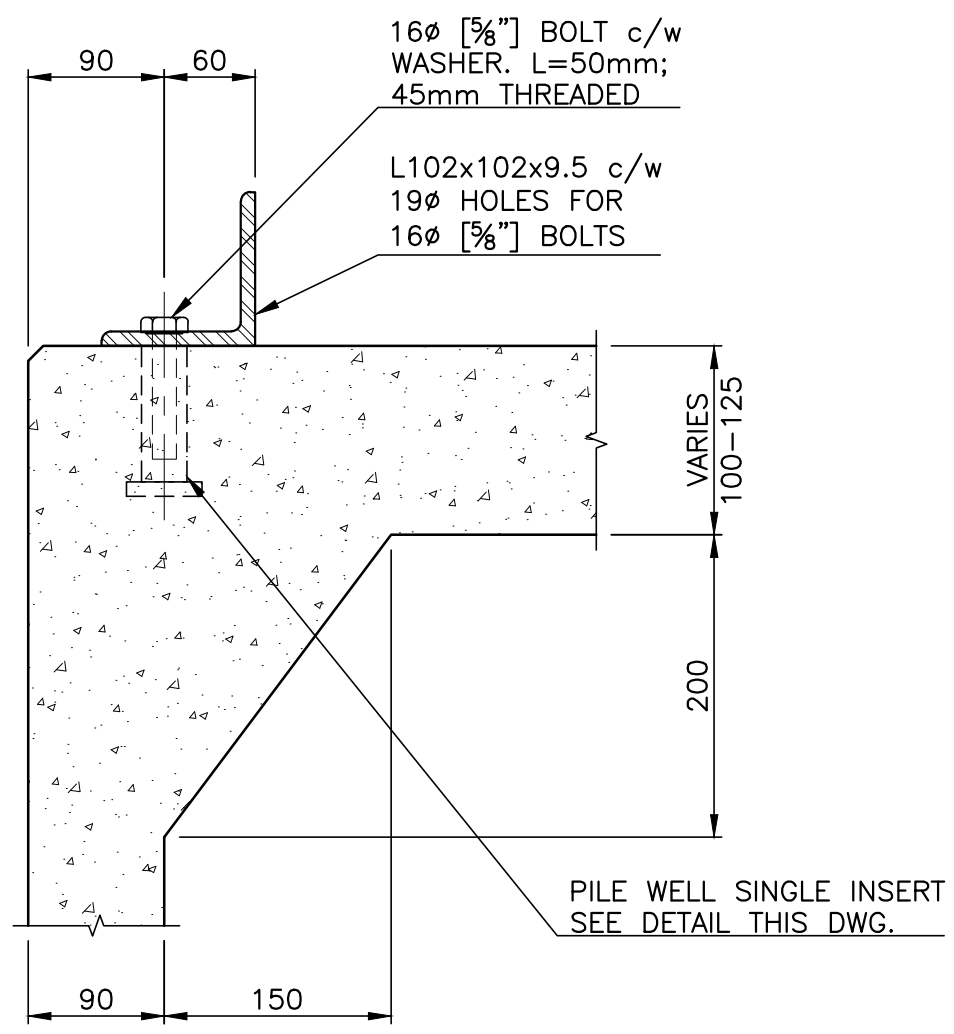
Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
219122	013 OF	2



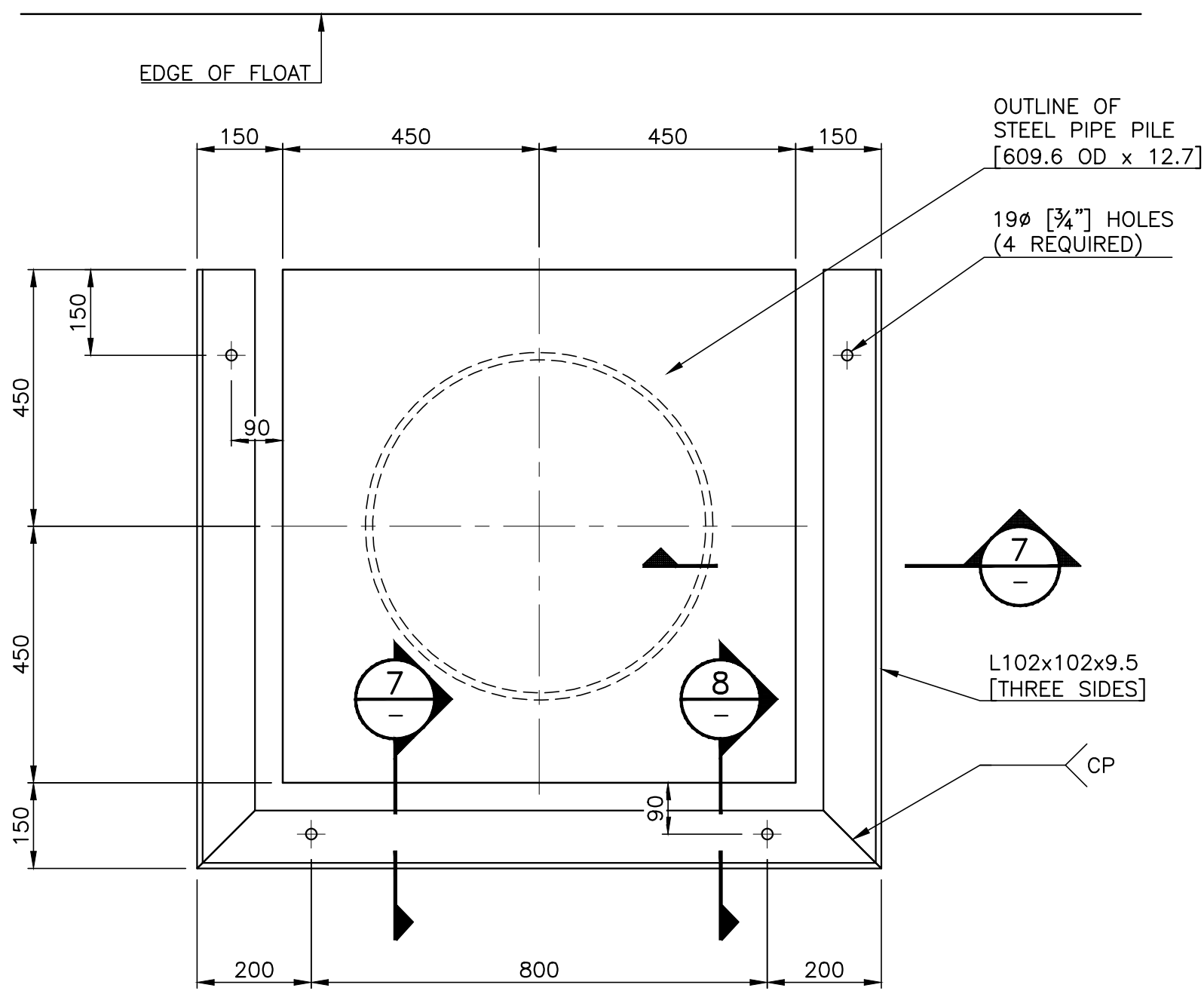
PILE WELL PLAN
1 : 10



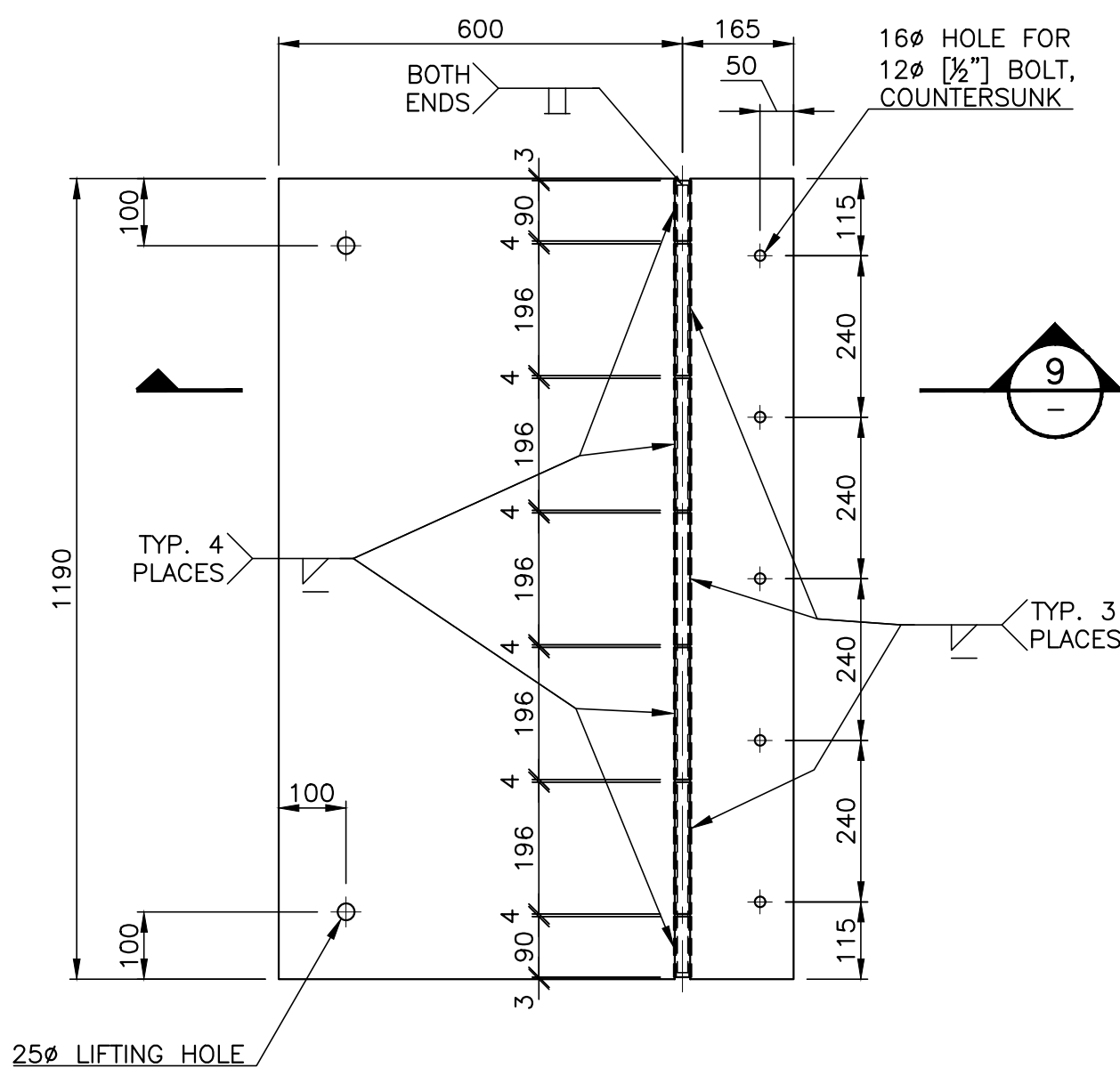
SECTION 7
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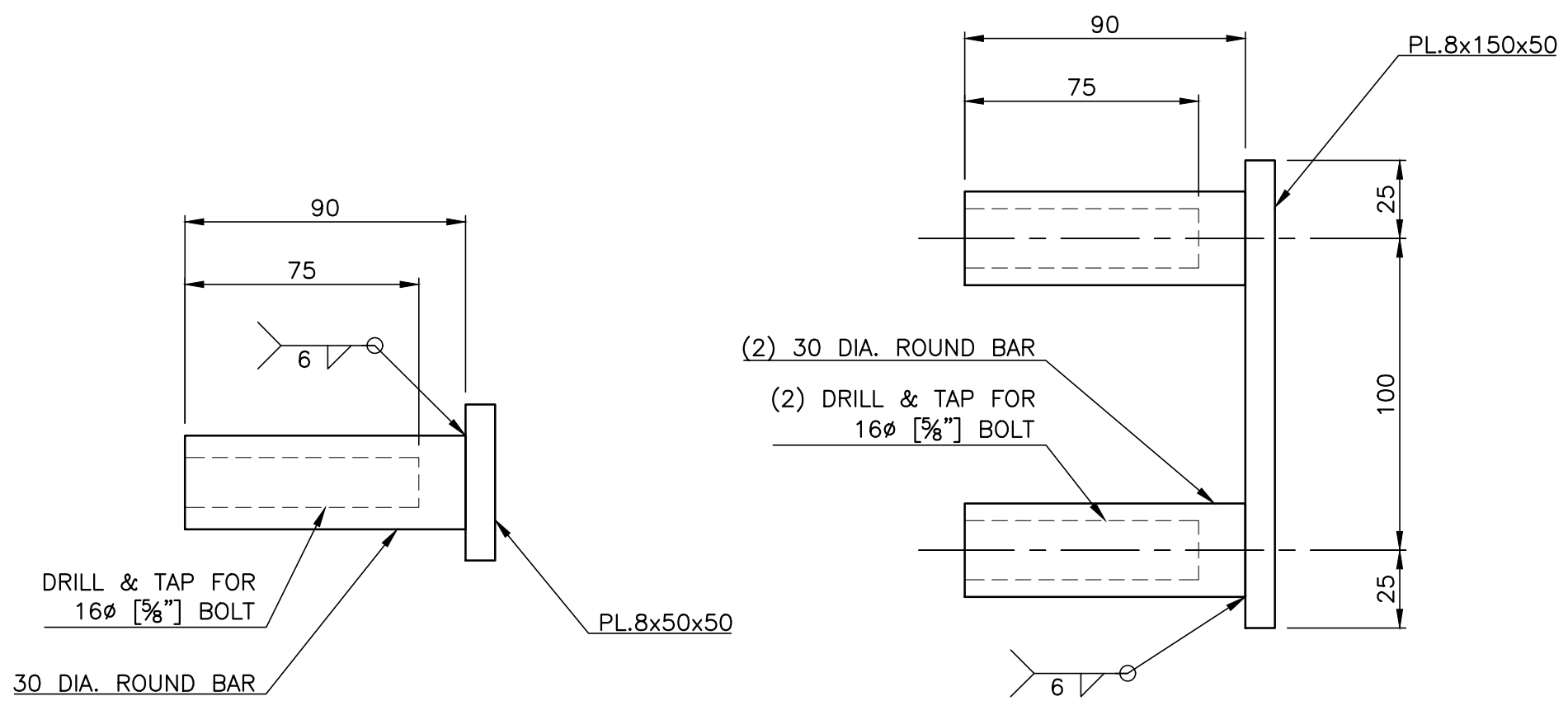
SECTION 8
1 : 5



PILE WELL GUARDRAIL
1 : 10
[WEAR STRIP NOT SHOWN FOR CLARITY]

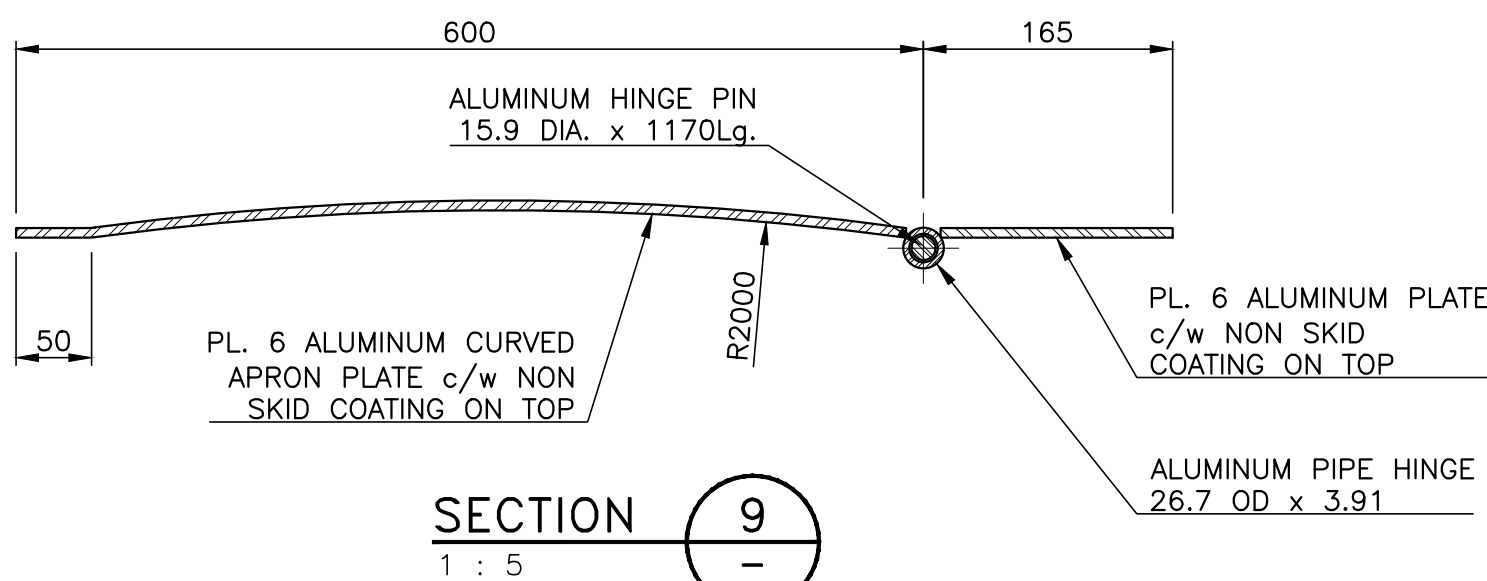


PLAN OF APRON
1 : 10

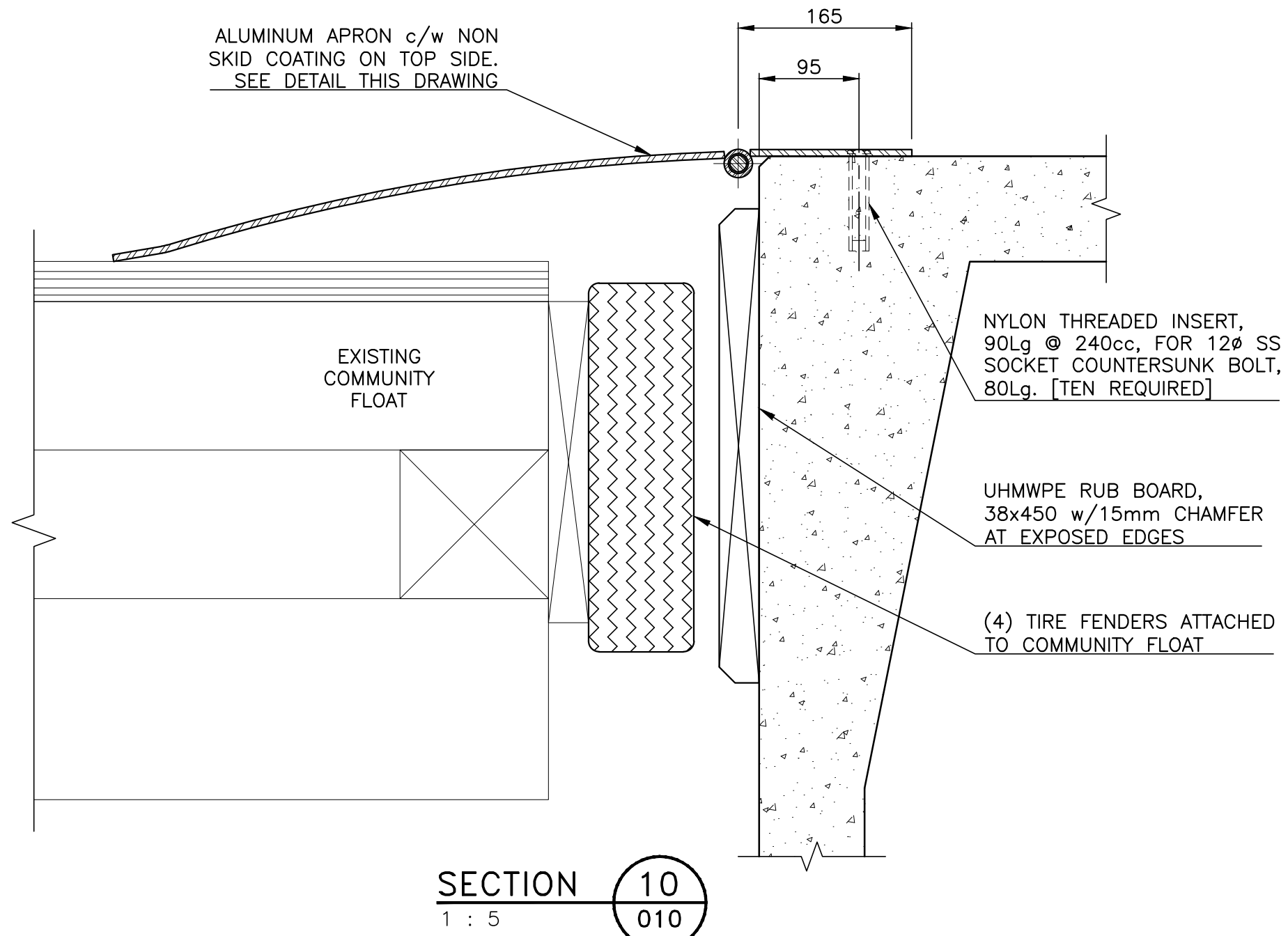


PILE WELL SINGLE INSERT
1 : 2
[4 REQ'D PER PILE WELL, 12 TOTAL]

PILE WELL DOUBLE INSERT
1 : 2
[8 PER PILE WELL, 24 TOTAL]

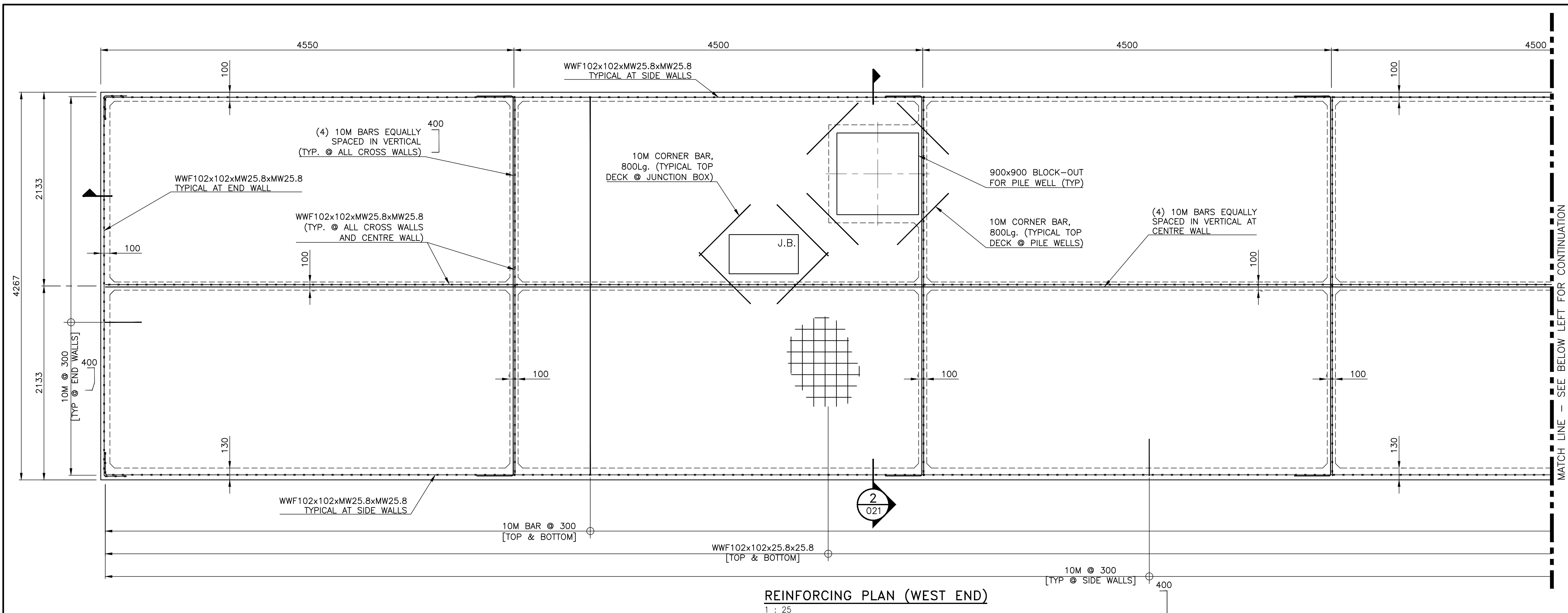


SECTION 9
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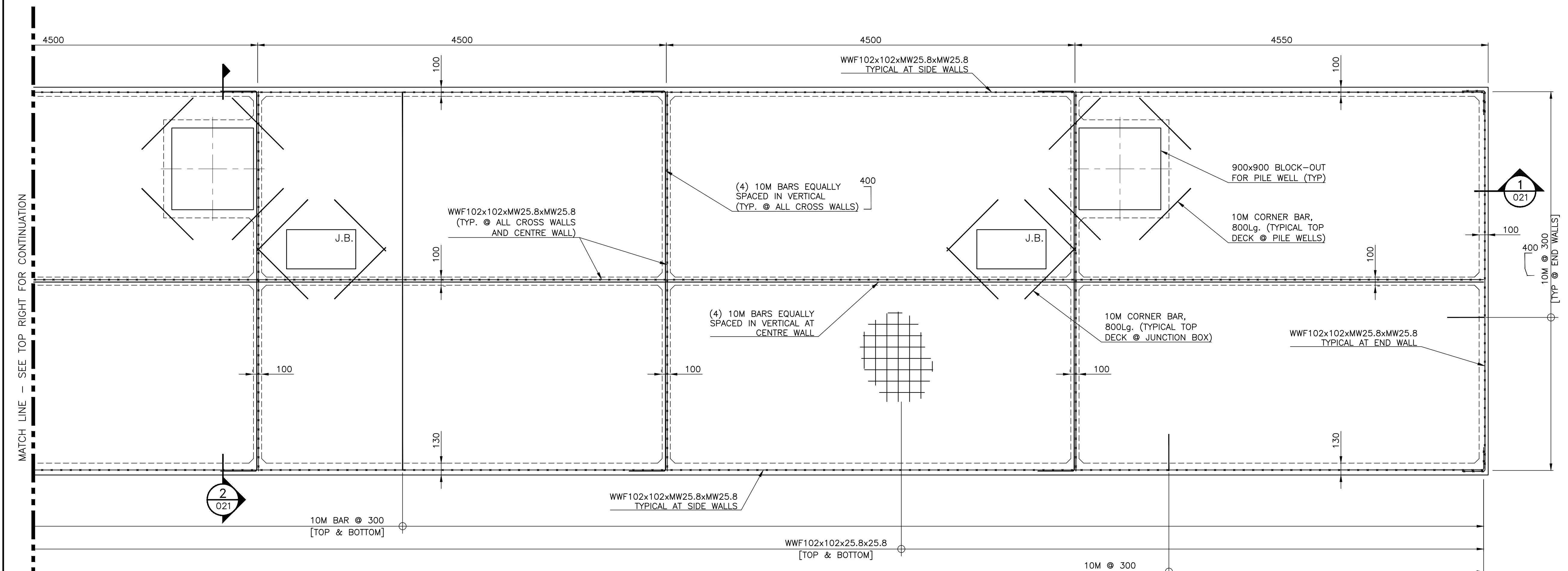


SECTION 10
1 : 5

NOTES:
1. FOR GENERAL NOTES, SEE DRAWING -003.



REINFORCING PLAN (WEST END)
1 : 25
[BOLT INSERTS NOT SHOWN FOR CLARITY]



REINFORCING PLAN (EAST END)
1 : 25
[BOLT INSERTS NOT SHOWN FOR CLARITY]

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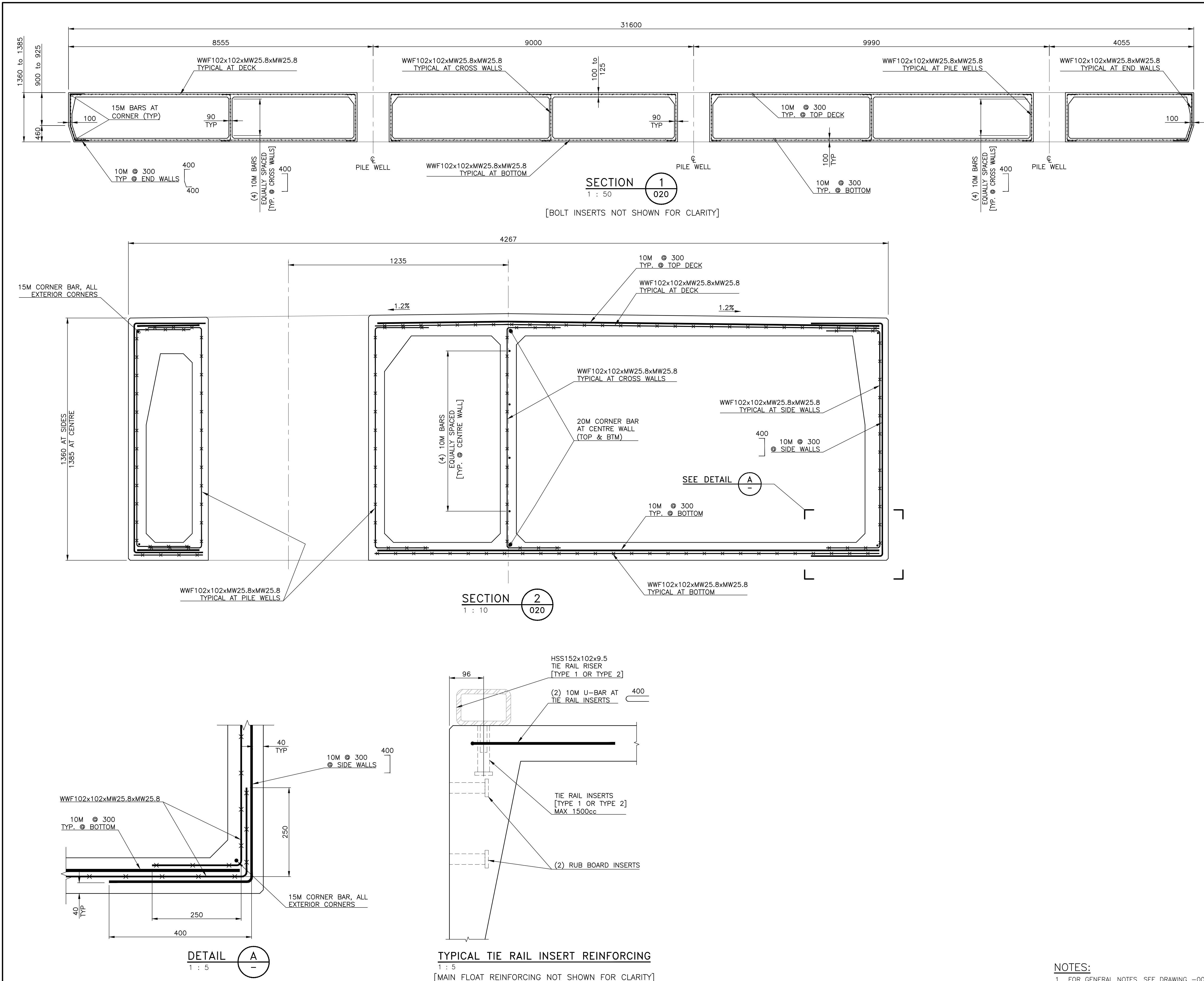
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Client/client
VJA

Drawing title/Titre du dessin

CONCRETE FLOAT REINFORCING
PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
219122	020 OF	2



Revision/	Description/Description	Date/Date
2	ISSUED FOR TENDER	19/11/27
1	ISSUED FOR REVIEW	19/11/22

Client/client

Fisheries & Oceans Canada
Real Property Safety
and Security
200 - 401 Burrard Street
Vancouver, Canada, V6C 3S4

Project title/Titre du projet

PORT HARDY
PORT HARDY CCG SAR
FLOAT REPLACEMENT

Approved by/Approuvé par
A.P.

Designed by/Concept par
A.P.

Drawn by/Dessiné par
PDM

PWGSC Project Manager/Administrateur de Projets TPSCG

PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSCG

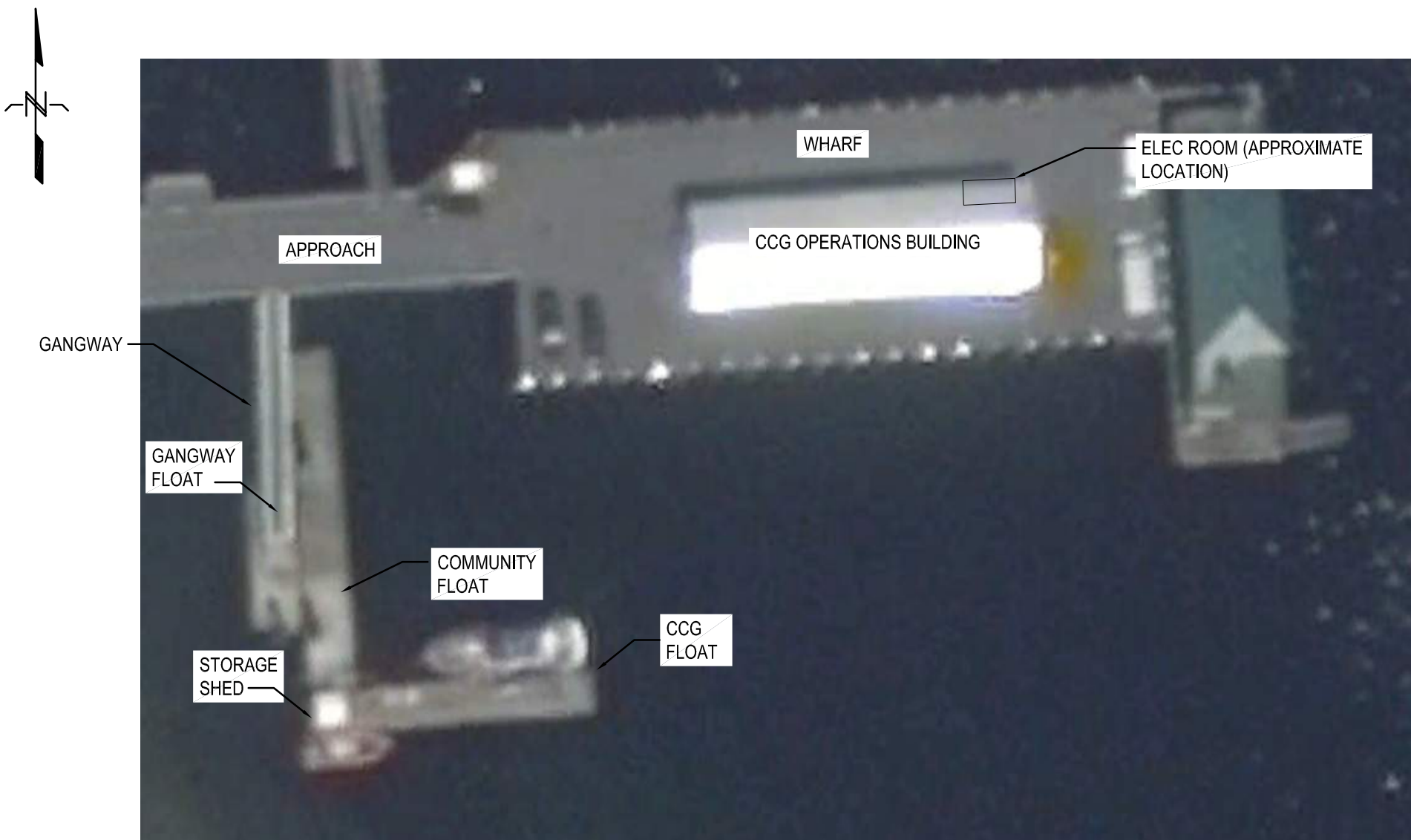
Client/client
VJA

Drawing title/Titre du dessin

CONCRETE FLOAT REINFORCING
SECTIONS AND DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
219122	021 OF	2

Prepared by: Brian Wyatt
Date: May 27, 2020 6:17 PM
File Name: Y:\PROJECTS\2020\015450\015450-000 CCG SAR PORT HARDY\PORT HARDY FLOAT ELECTRICAL CONSTRUCTION\DWG01-000 GENERAL NOTES\KEY PLAN.DWG



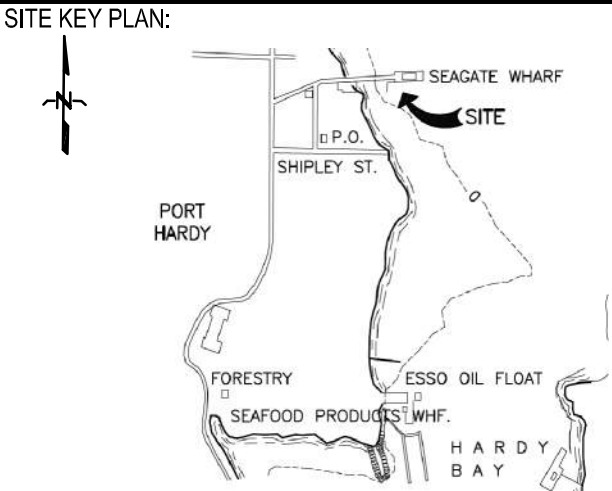
1
E000
KEY PLAN
SCALE: N.T.S.



ELECTRICAL SYMBOL SCHEDULE AND ANNOTATIONS	
	SURFACE CEILING MOUNTED LUMINAIRE
	WALL MOUNTED LUMINAIRE
	EXTERIOR LUMINAIRE WITH POLE ASSEMBLY
	POWER POLE
	OVERHEAD UTILITY SERVICE MAST
	JUNCTION BOX
	PULL BOX
	EQUIPMENT CONNECTION
	SPECIAL CONNECTION
	PANEL
	MAIN DISTRIBUTION PANEL
	RECEPTACLE CABINET No.1
	TRANSFORMER RECEPTACLE CABINET No.1
	TRANSFORMER
	DOWNHAUL GUY WITH ANCHOR AND GUARD
	LV CIRCUIT BREAKER
	DISCONNECT SWITCH
	UTILITY POWER METER
	CONNECTION POINT
	CABINET RECEPTACLES
	REFERENCE NOTE (1 DENOTES SEE NOTE 1)
	PANEL IDENTIFICATION TAG
	NEW EQUIPMENT
	EXISTING EQUIPMENT TO REMAIN
	EXISTING EQUIPMENT TO BE REMOVED
	GROUND ROD
	RR EXISTING TO BE REMOVED
	EX EXISTING TO REMAIN
	ER EXISTING TO BE RELOCATED
	GFI GROUND FAULT INTERRUPTOR

DRAWING LIST	
E-000	GENERAL SITE PLAN, LEGEND, AND DRAWING LIST
E-001	EXISTING SITE PLAN AND DETAILS
E-002	NEW SITE PLAN AND FLOAT PLAN
E-003	ELECTRICAL DETAILS
E-004	ELECTRICAL TRANSFORMER RECEPTACLE CABINET DETAILS
E-005	SINGLE LINE DIAGRAMS AND SCHEDULES

PRELIMINARY
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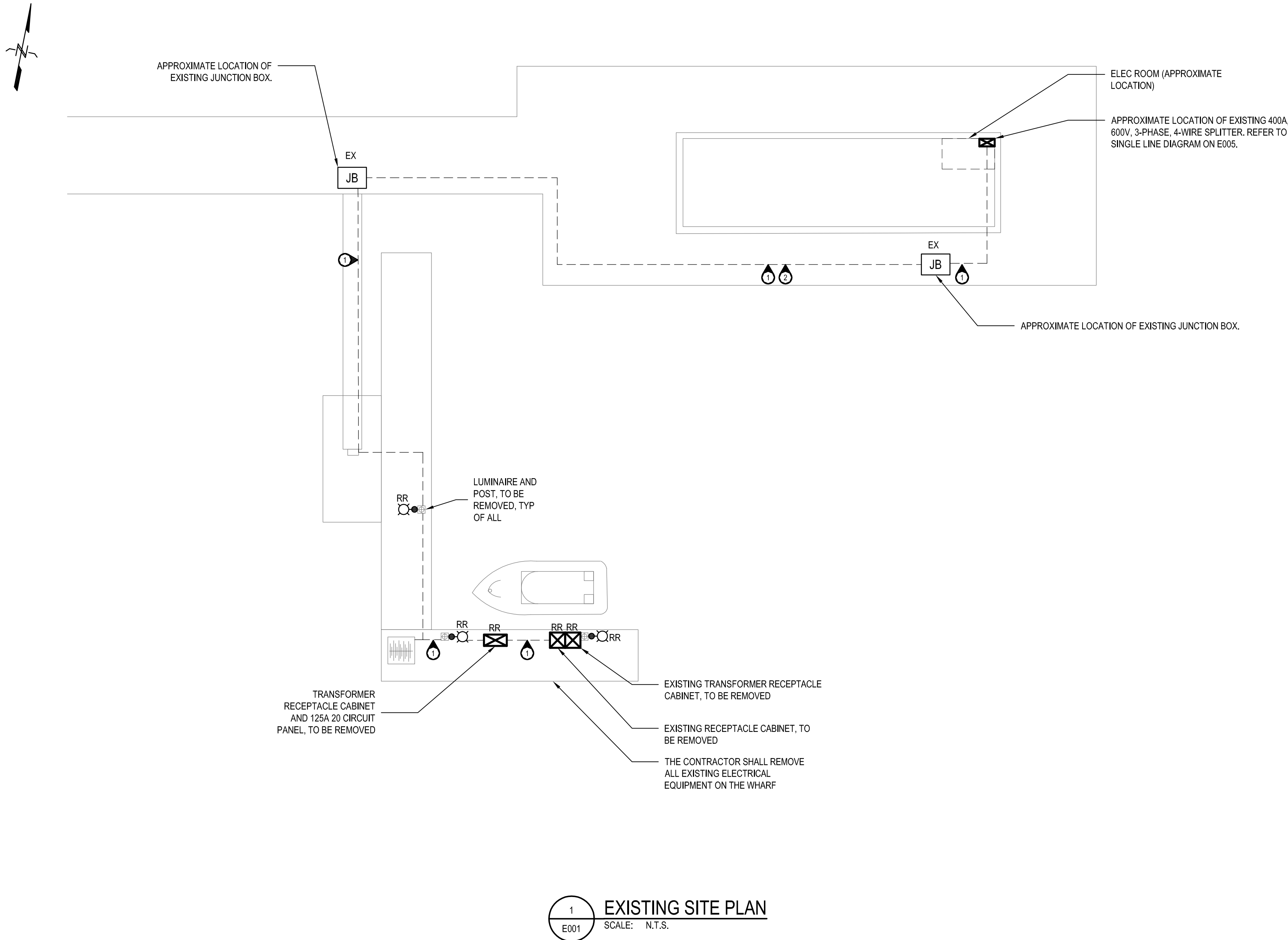


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2	ISSUED FOR TENDER	20200527
1	ISSUED FOR CLIENT REVIEW	20200430
0	ISSUED FOR INTERNAL REVIEW	20200416
Revision/Revision	Description/Description	Date/Date

Client/client		
FISHERIES AND OCEANS CANADA		
401 BURRARD STREET, SUITE 200 VANCOUVER, BC		
Project title/Titre du projet Canadian Coast Guard Station Port Hardy, B.C.		
PORT HARDY CCG SAR Float Replacement - Electrical Reconstruction		
Approved by/Approuve par WYATT RITCHIE		
Designed by/Concept par SHIVA AHMADI		
Drawn by/Dessine par S.A.		
PWGSC Project Manager/Administrateur de Projets TPSCG		
PWGSC, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie, TPSCG		
Client/client DFO		
Drawing title/Titre du dessin GENERAL SITE PLAN, LEGEND, AND DRAWING LIST		
Project No./No. du projet 201-01545-00	Sheet/Feuille E000 1 OF 6	Revision no./ La Révision no. 2

Prepared by: Brian Wyatt
Date: May 27, 2020 2:53 PM
File Name: Y:\PROJECTS\2020\201-01545-00 CGG SAR PORT HARDY FLOAT ELECTRICAL CONSULTATION\DWG\1-001 PRODUCTION\01-001 EXISTING SITE PLAN AND DETAILS.DWG



KEYNOTES:

① EXISTING CABLE STRAPPED UNDERNEATH THE WHARF, RAMP, AND FLOATS FEEDING THE EXISTING EQUIPMENT ON THE WHARF TO BE REMOVED. THE CONTRACTOR SHALL PROVIDE NEW RPVC OR STAINLESS HANGERS AND SUPPORT STRUCTURES TO SUPPORT THE NEW CABLES.

② THE UNDERSIDE OF THE WHARF HAS NOT BEEN FULLY REVIEWED PRIOR TO PREPARING THIS PACKAGE. EXISTING CABLE MAY BE ROUTED DIFFERENTLY THAN SHOWN. THE NUMBER AND LOCATION OF EXISTING JUNCTION BOXES MAY BE DIFFERENT THAN SHOWN. THE CONTRACTOR'S SCOPE OF WORK IS TO REMOVE THE EXISTING CABLE(S) FROM THE ELECTRICAL ROOM TO THE EQUIPMENT ON THE FLOATS AND TO PROVIDE SUITABLE ALLOWANCE TO ACCOMMODATE THE SITE CONDITIONS UNDERNEATH THE WHARF, FLOATS, GANGWAYS, AND RAMP.

FISHERIES AND OCEANS CANADA
REAL PROPERTY AND SAFETY AND SECURITY

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PRELIMINARY
NOT FOR CONSTRUCTION

SITE KEY PLAN:

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2	ISSUED FOR TENDER	20200527
1	ISSUED FOR CLIENT REVIEW	20200430
0	ISSUED FOR INTERNAL REVIEW	20200416

Revision/Revision	Description/Description	Date/Date
Client/client		

FISHERIES AND OCEANS CANADA

401 BURNARD STREET, SUITE 200
VANCOUVER, BC

Project title/Titre du projet
**Canadian Coast Guard Station
Port Hardy, B.C.**

**PORT HARDY CCG SAR
Float Replacement -
Electrical Reconstruction**

Approved by/Approuvé par
WYATT RITCHIE

Designed by/Concept par
SHIVA AHMADI

Drawn by/Dessiné par
S.A.

PWGSC Project Manager/Administrateur de Projets TPSCG

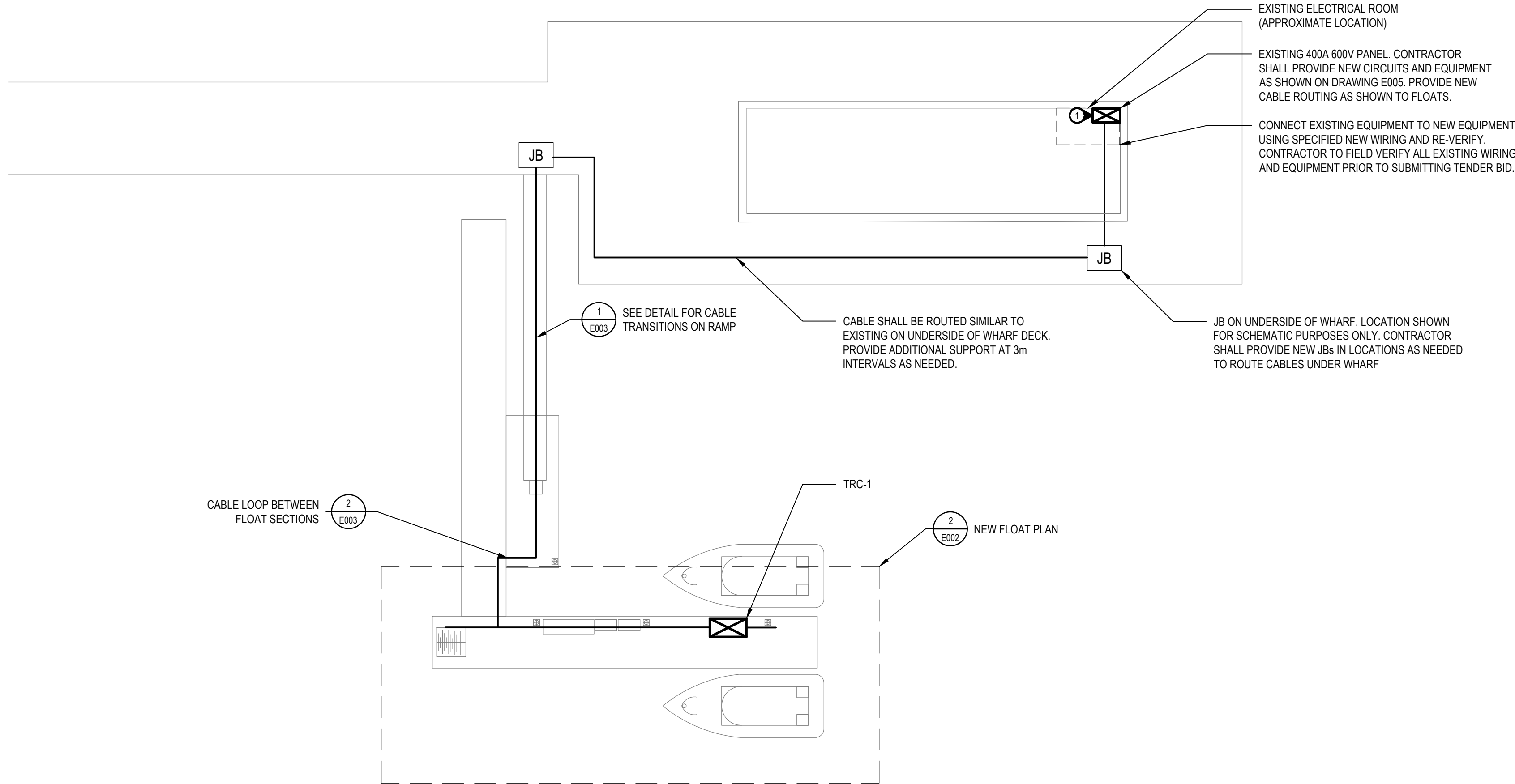
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Drawing title/Titre du dessin

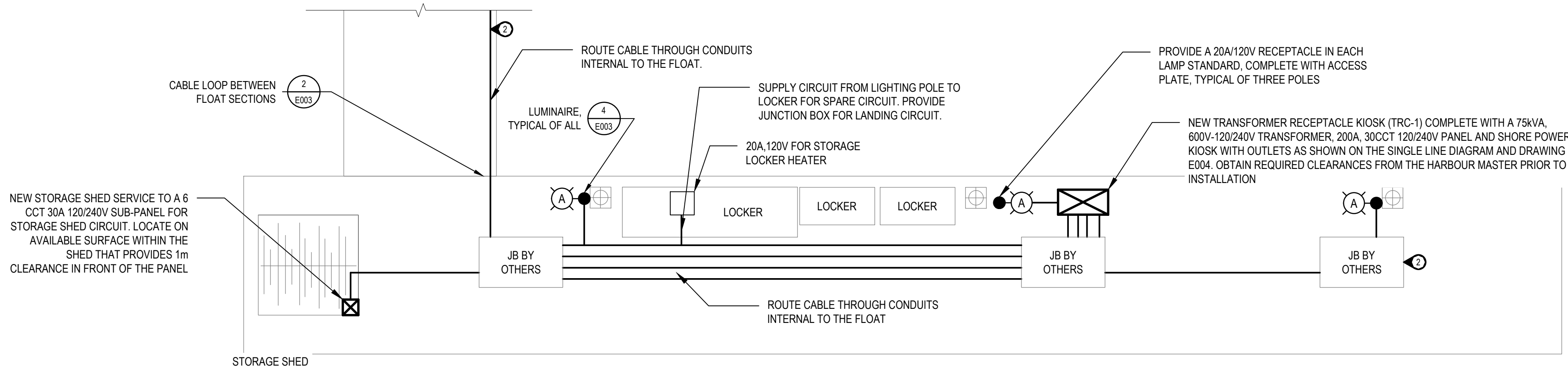
**EXISTING SITE PLAN
AND DETAILS**

Project No./No. du projet 201-01545-00	Sheet/Feuille E001 2 OF 6	Revision no./ La Révision no. 2
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1
E002

NEW SITE PLAN
SCALE: N.T.S.



2
E002

NEW FLOAT PLAN
SCALE: N.T.S.

KEYNOTES:

- CONTRACTOR SHALL CONNECT EXISTING GROUNDING FROM THE OPERATIONS BUILDING USING PROPER BONDING TO THE NEW KIOSK ENCLOSURE.
- FOR CONDUITS AND JUNCTION BOXES SIZES, LOCATIONS, AND DETAILS INTERNAL TO THE FLOATS, REFER TO "CONCRETE FLOAT PLAN", DRAWING 010 BY VILLHOLTH JENSEN & ASSOC. LTD, LATEST REVISION, PART OF THE PORT HARDY CCG SAR FLOAT REPLACEMENT PROJECT. DETAILS FOR THESE ITEMS SHOWN ON THIS DRAWING ARE SCHEMATIC AND INDICATIVE ONLY.



FISHERIES AND OCEANS
CANADA

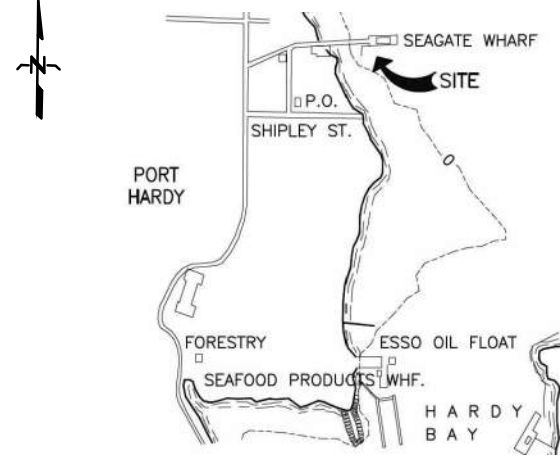
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SITE KEY PLAN:



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5		
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2	ISSUED FOR TENDER	20200507
1	ISSUED FOR CLIENT REVIEW	20200430
0	ISSUED FOR INTERNAL REVIEW	20200416

Revision/Revision Description/Description Date/Date

Client/client

FISHERIES AND OCEANS
CANADA

401 BARRARD STREET, SUITE 200
VANCOUVER, BC

Project title/Titre du projet
Canadian Coast Guard Station
Port Hardy, B.C.

**PORT HARDY CCG SAR
Float Replacement -
Electrical Reconstruction**

Approved by/Approuvé par
WYATT RITCHIE

Designed by/Concept par
SHIVA AHMADI

Drawn by/Dessiné par
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PWGSC Project Manager/Administrateur de Projets TPSCG

PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TPSCG

Client/client

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Drawing title/Titre du dessin

**NEW SITE PLAN
AND FLOAT PLAN**

Project No./No. du
projet
201-01545-00

Sheet/Feuille
E002
3 OF 6

Revision no./
La Révision
no.
2

SITE KEY PLAN:

0 1000 FEET

PORT HARBY

FORESTRY

SEAFOOD PRODUCTION WHARF

ESSO OIL FLOAT

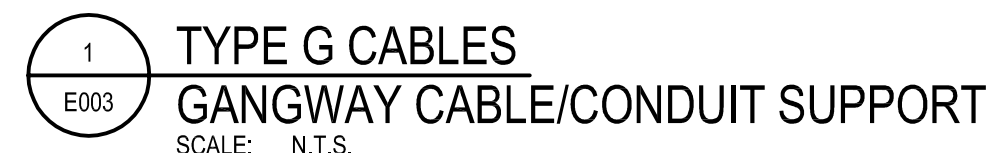
HARBOR BAY

SHIPLEY ST.

P.O.

SEAGATE WHARF

SITE



- ### DETAIL 1 KEYNOTES:
- 1 ► SUPPORT TYPE CABLES IN CONDUIT WITH END DROP. SUPPORT CABLE TRAY EVERY 2m FROM UNDERSIDE OF WHARF.
 - 2 ► 103mm RPVC CONDUIT TO SUPPORT EACH CABLE FEED C/W BELL ENDS UNDER GANGWAY.
 - 3 ► CABLE STRAIN RELIEF GRIPS - DOUBLE EYE, DOUBLE WEAVE, STAINLESS STEEL.
 - 4 ► COIL MINIMUM 1.5m OF CABLES (MEASURED AT LOW LOW TIDE) ON LANDING FLOAT AT BOTTOM OF GANGWAY.
 - 5 ► PROVIDE ADEQUATE CABLE AND FLEX CONDUIT FOR GANGWAY MOVEMENT AT TIDAL EXTREMES. COORDINATE JUNCTION BOX LOCATION TO BE ADJACENT GANGWAY.



- DETAIL 2 KEYNOTES:**
- ① CABLES AND FLEX CONDUIT SAG MINIMUM 50mm ABOVE WATER LINE. CABLES SHALL BE AS SHOWN ON THE PLAN DRAWINGS AND THE SINGLE LINE DIAGRAM



- 3
E003

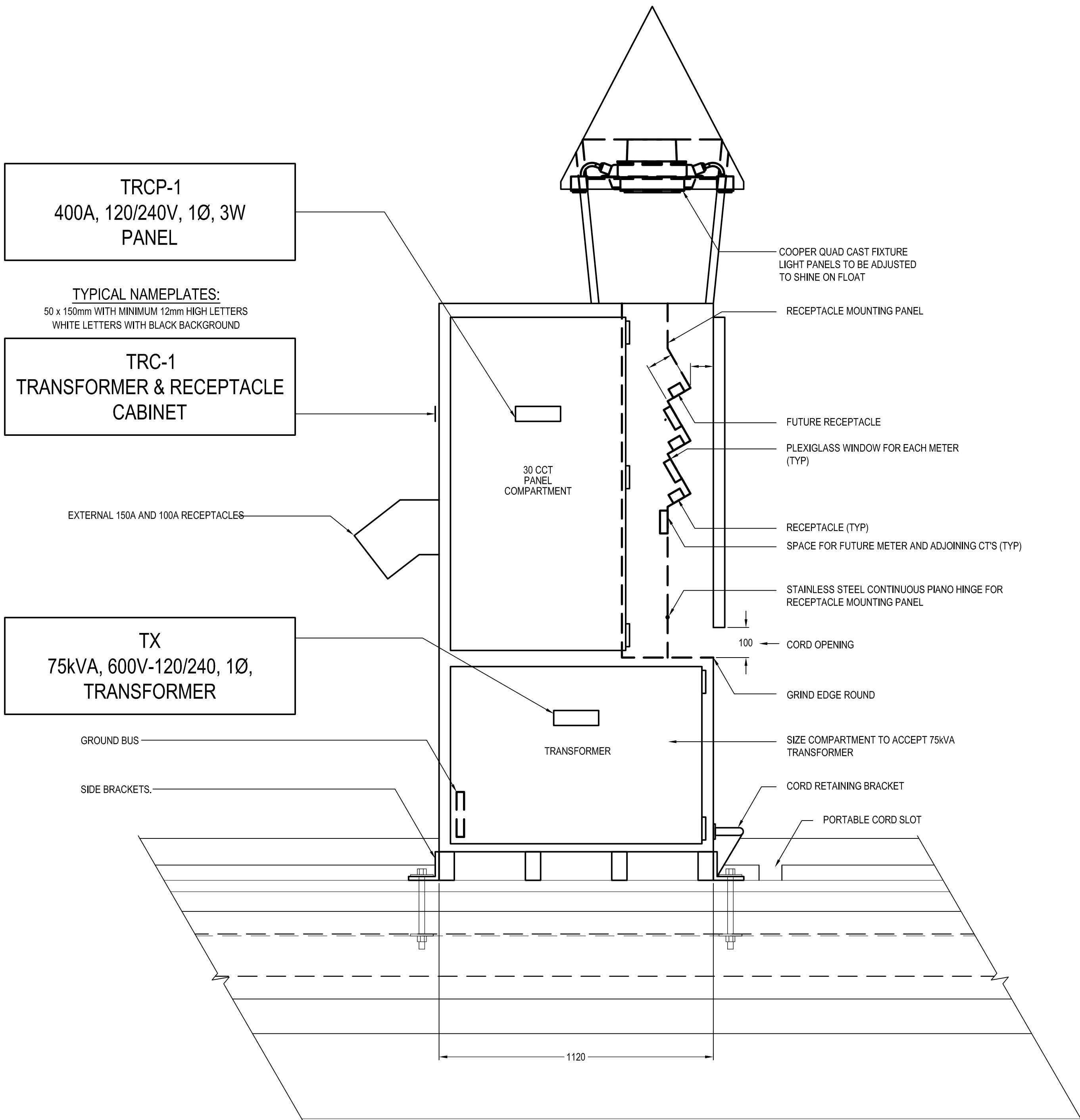
GROUND AND ISOLATED NEUTRAL BUS

SCALE: N.T.S.

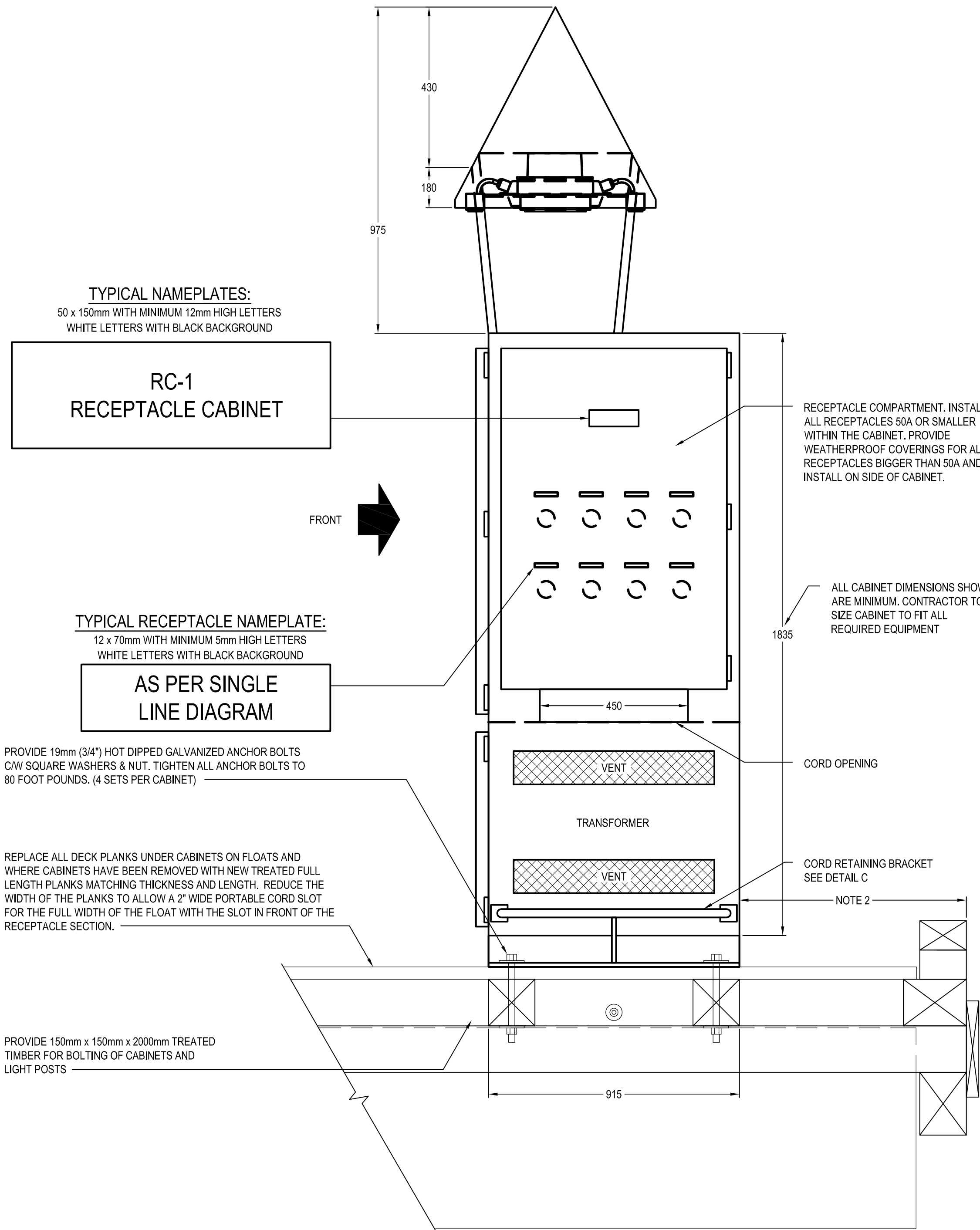


- 4 FLOAT FIXTURE AND POLE DETAIL
E003 SCALE: N.T.S.

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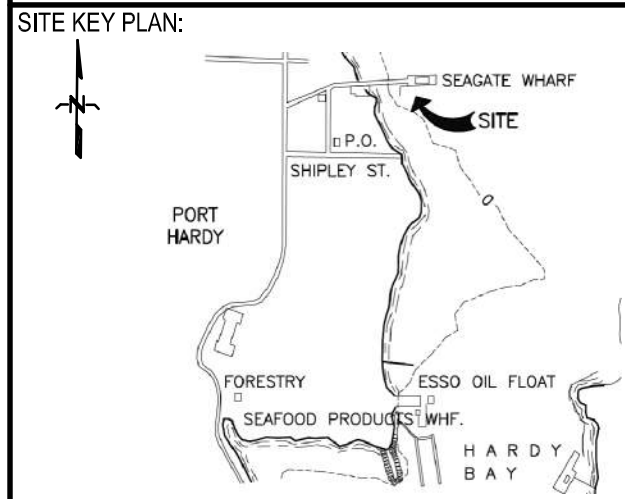


1
E004
DETAIL - TRANSFORMER AND RECEPTACLE CABINET (TRC) ON FLOAT - FRONT VIEW
SCALE: NTS



2
E004
DETAIL - TRC CABINET - SIDE VIEW
SCALE: NTS

PRELIMINARY
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2	ISSUED FOR TENDER	20200527
1	ISSUED FOR CLIENT REVIEW	20200420
0	ISSUED FOR INTERNAL REVIEW	20200416

Revision/Revision	Description/Description	Date/Date
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Client/client

**FISHERIES AND OCEANS
CANADA**

401 BURNARD STREET, SUITE 200
 VANCOUVER, BC

Project title/Titre du projet
**Canadian Coast Guard Station
 Port Hardy, B.C.**

**PORT HARDY CCG SAR
 Float Replacement -
 Electrical Reconstruction**

Approved by/Approuve par
 WYATT RITCHIE

Designed by/Concept par
 SHIVA AHMADI

Drawn by/Dessine par
 S.A.

PWGSC Project Manager/Administrateur de Projets TPSGC

PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TPSGC

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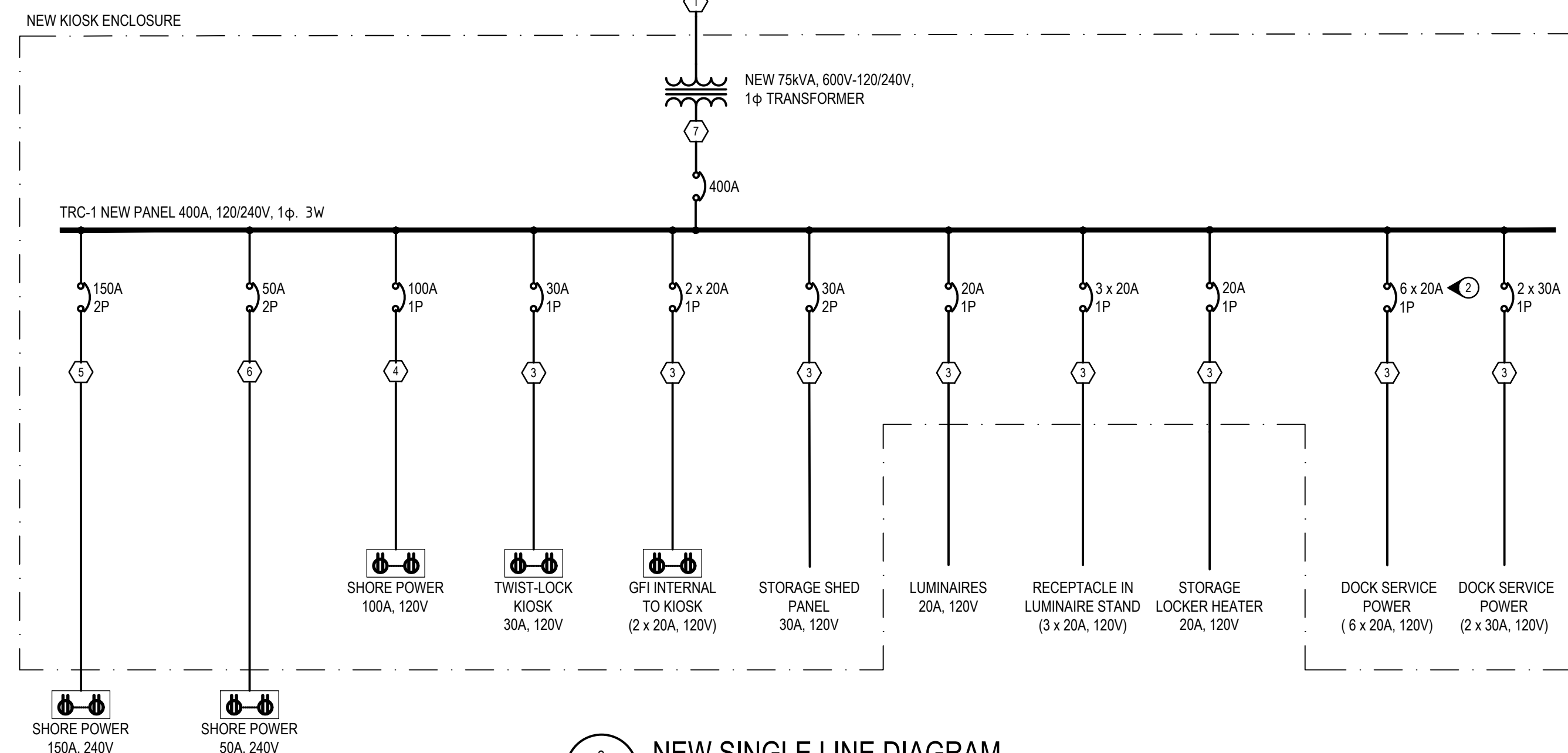
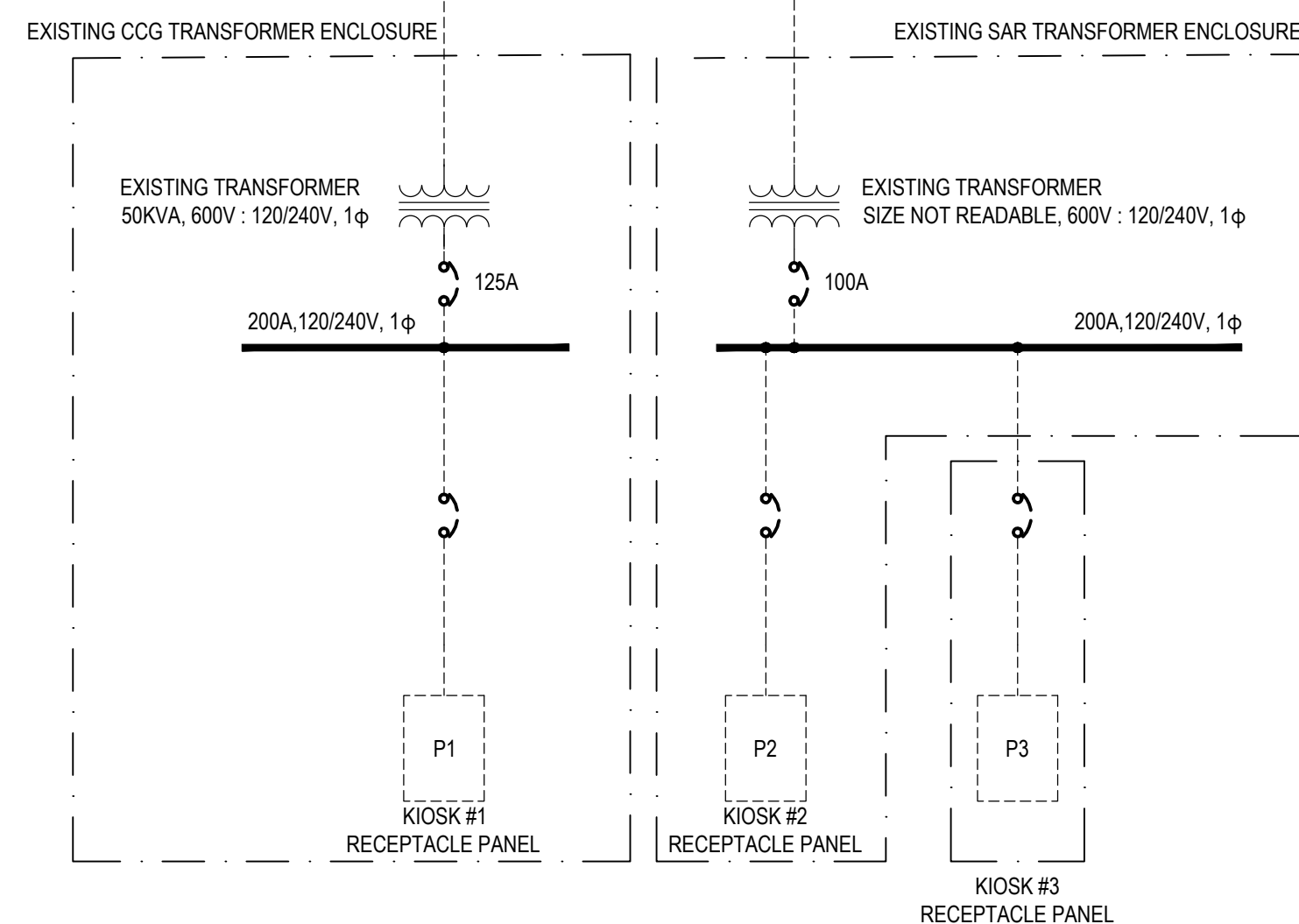
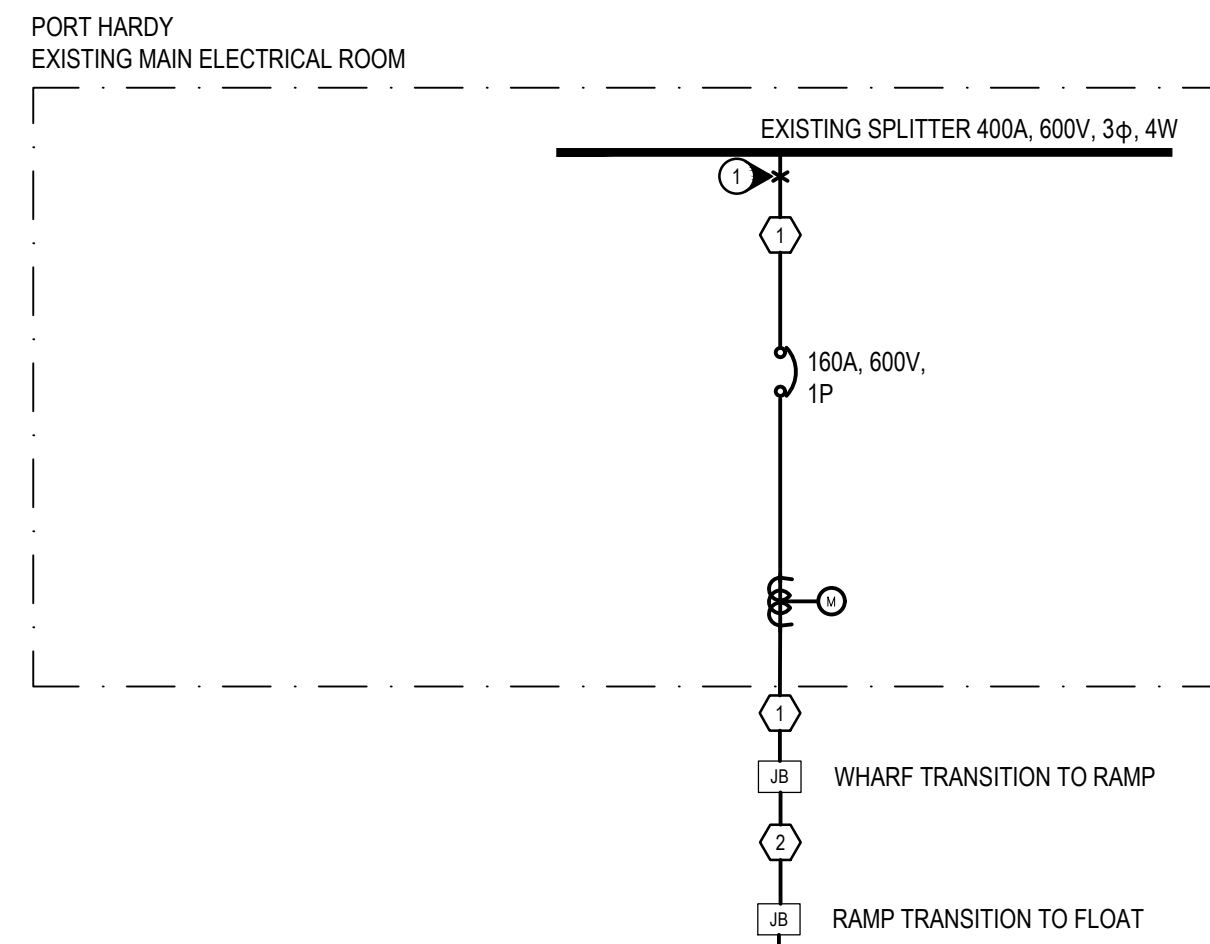
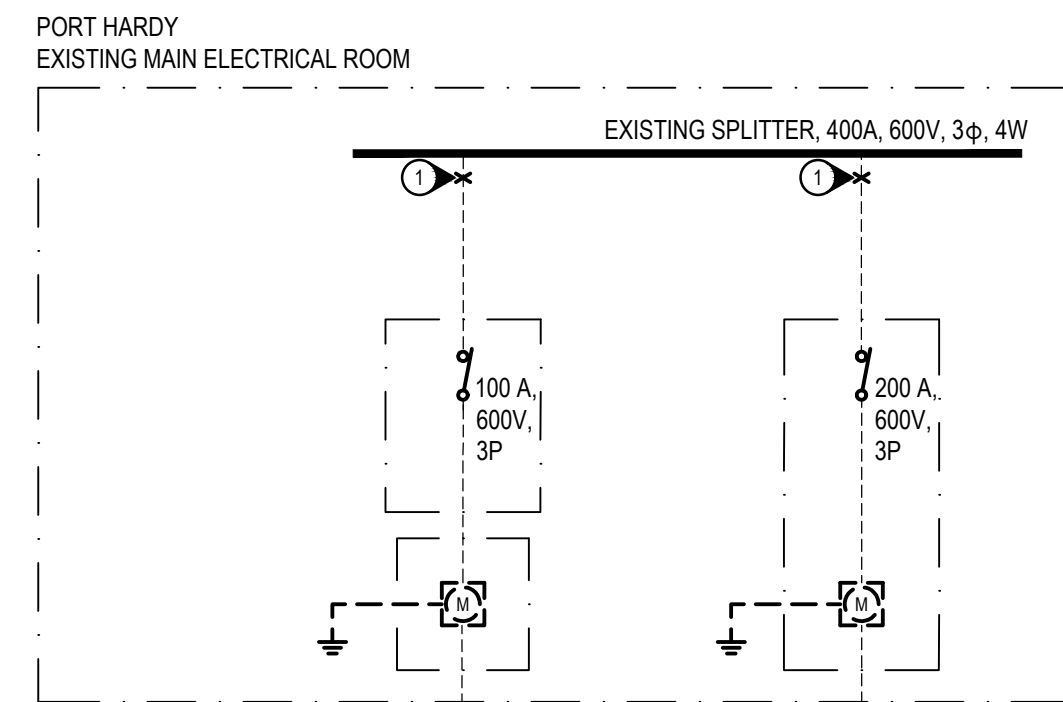
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**ELECTRICAL TRANSFORMER
 RECEPTACLE CABINET DETAILS**

Project No./No. du
 projet
201-01545-00

Sheet/Feuille
E004
 5 OF 6

Revision no./
 La Révision
 no.
2

[illegible]

Load Calculations:								
Receptacle count	rec'pt	qty	amps	volts	ph	kW	mult	Total kW
1st 4 highest rated		1	150	240	1	36.0	1.00	36.0
		1	50	240	1	12.0	1.00	12.0
		2	30	120	1	7.2	1.00	7.2
Next 4 highest rated		1	30	120	1	3.6	0.65	2.3
		3	20	120	1	7.2	0.65	4.7
Next 5 highest rated		5	20	120	1	12.0	0.50	6.0
Next 16 highest rated		2	20	120	1	4.8	0.25	1.2
		0	0	0	1	0.0	0.25	0.0
Next 20 highest rated							0.20	
Next 20 highest rated							0.15	
Remaining receptacles							0.10	
Total plug/receptacles		15						69.4
LED Lighting Fixture	55W	3	20	120	1	0.1	1.00	0.3
Storage Shed Panel		1	30	240	1	7.2	0.60	4.3
Estimated load								74.0
Load at Service Entrance		240	volts	1	ph	309 amps		



SLD - KEYNOTES:

- ① CONTRACTOR SHALL COORDINATE DISCONNECT WITH HARBOUR MASTER TO ENSURE IMPACT OF POWER OUTAGE IS MINIMIZED.
- ② "# x XX" INDICATES MULTIPLE BREAKERS AND FEEDERS CORRESPONDING TO "#", SIZED AS PER 'XX'.
- ③ LOAD CALCULATIONS TAKE INTO ACCOUNT THAT ONLY TWO VESSELS CAN BE PHYSICALLY DOCKED AT ONCE.
- ④ EXISTING SINGLE LINE DIAGRAM IS APPROXIMATE ONLY. CONTRACTORS SHALL VERIFY ALL SINGLE LINE DIAGRAM COMPONENTS AND CONNECTIONS BEFORE DISCONNECTING AND DEMOLISHING EQUIPMENT.

FEEDER SCHEDULE:

- 1 4C #2/0 TECK CABLE
- 2 4C #2/0 TYPE G IN RPVC CONDUIT
- 3 3C #10 AWG TECK
- 4 3C #3 AWG CU
- 5 3C #1/0 AWG CU
- 6 3C #8 AWG CU
- 7 2 x 3C 3/0 AWG CU


**FISHERIES AND OCEANS
CANADA**
**REAL PROPERTY AND SAFETY
AND SECURITY**

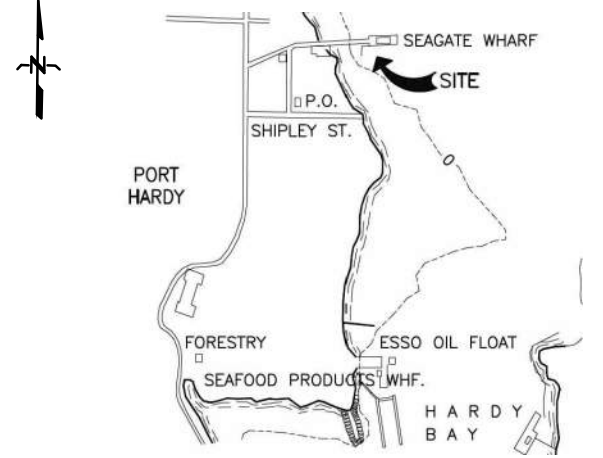
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SITE KEY PLAN:



DO NOT SCALE DRAWINGS

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2	ISSUED FOR TENDER	2020/05/27
1	ISSUED FOR CLIENT REVIEW	2020/04/30
0	ISSUED FOR INTERNAL REVIEW	2020/04/16
Revision/ Drawn	Description/Description	Date/Date

Client/client

**FISHERIES AND OCEANS
CANADA**

401 BURNARD STREET, SUITE 200
VANCOUVER, BC

Project title/Titre du projet
**Canadian Coast Guard Station
Port Hardy, B.C.**

PORT HARDY CCG SAR

Approved by/Approuvé par
WYATT RITCHIE

Designed by/Concept par
SHIVA AHMADI

Drawn by/Dessine par
S.A.

PWGSC Project Manager/Administrateur de Projets TPSGC

PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client

DFO

SINGLE LINE DIAGRAMS AND SCHEDULES

Project No./No. du projet	201-01545-00
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Sheet/Feuille

E005

Revision no./
La Révision
no. **2**