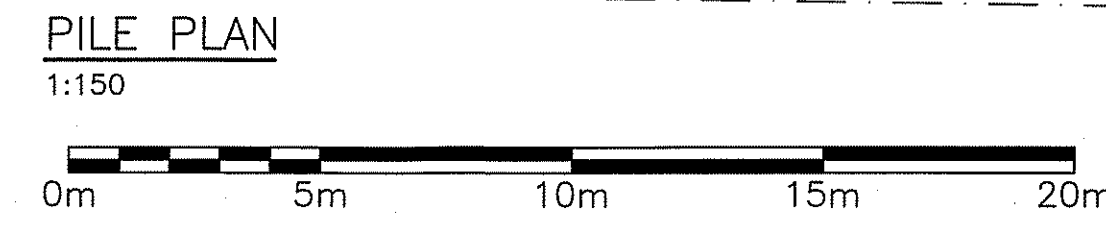


**NOTE:**  
CONTRACTOR TO CONFIRM LOCATION OF EXISTING MOORING PILES, THE RESULTS ARE TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW. ANY CHANGES REQUIRED TO THE FRAMING OF FLOAT 'C' INCLUDING THE CONNECTION OR ADJUSTMENTS TO THE ALIGNMENT ARE TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW

SIGNS TO BE INSTALLED ON EAST SIDE OF MOORING DOLPHIN USING THE WORDING "SMALL VESSELS ONLY / PETITS VAISSEAUX SEULEMENT". SIGN TO BE ON 3.2 THICK METAL, PLYWOOD OR SOLID SHEET PLASTIC. LETTERING TO BE RED ON A WHITE BACK GROUND.

- LEGEND:**
- EXISTING VERTICAL PILE
  - REMOVE AND REPLACE PILE WITH SIZE 36 TREATED TIMBER PILE
  - NEW 610# STEEL PIPE PILE



SURVEY CONTROL/WORK POINT CO-ORDINATES			
SURVEY CONTROL POINT	NORTHING	EASTING	ELEVATION
GNSS CONTROL POINT 514	5399374.35	483308.95	7.522
GNSS CONTROL POINT 516	5399493.03	483186.06	-
PT# 3312	5399386.874	483269.215	4.973
PT# CC	5399353.009	483284.961	4.427
WORK POINT (WP)			
WP#1	5399402.432	483250.031	-
WP#2	5399415.239	483223.154	-

- NOTES:**
- DATUM - NAD83 (CSRS) 3.0.0.BC.1.CRD, UTM ZONE 10
  - WORK POINTS ARE PROVIDED FOR REFERENCE. CONTRACTOR SHALL ESTABLISH SURVEY CONTROL MONUMENTS AS REQUIRED.

Revision/	Description/	Date/
Revision	Description	Date
3	ISSUED FOR ADDENDUM 1	17/02/10
2	ISSUED FOR TENDER	17/01/20
1	ISSUED FOR 95% REVIEW	16/11/04
0	ISSUED FOR 30% REVIEW	16/09/20

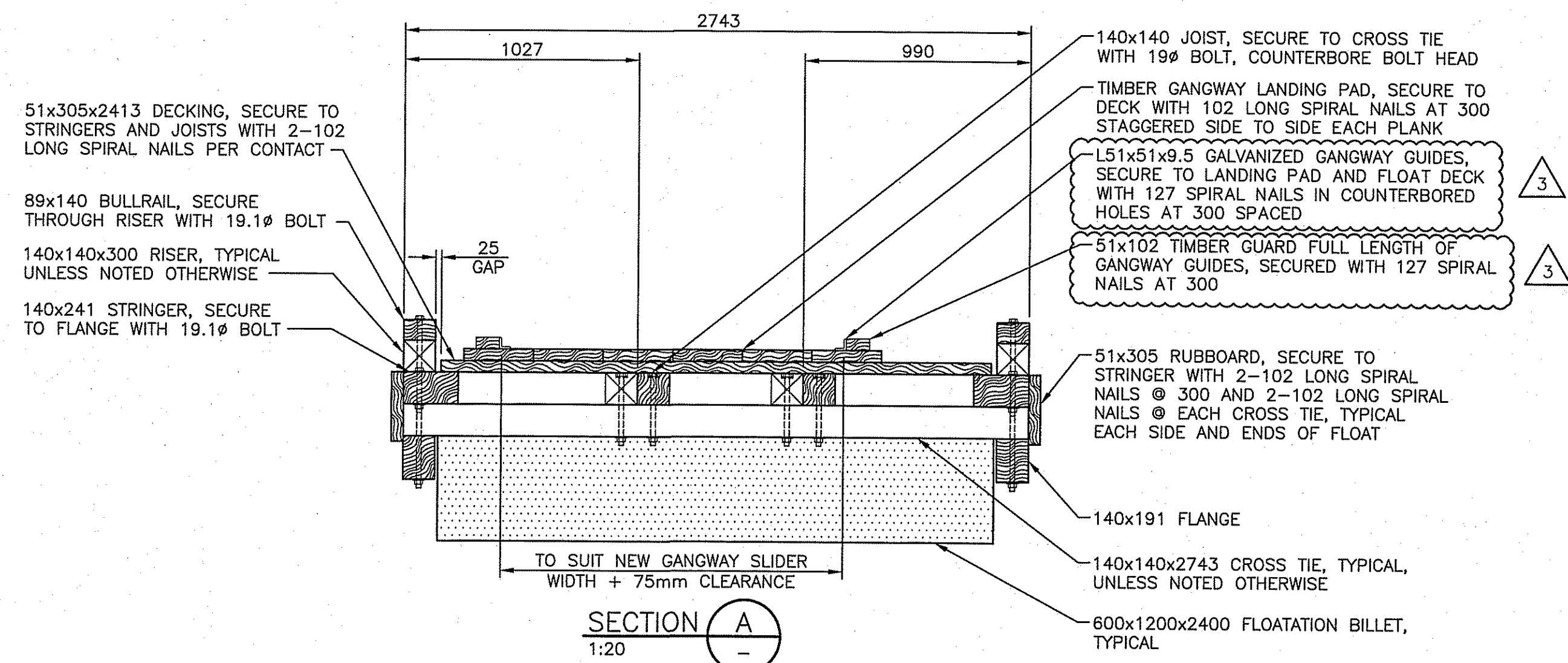
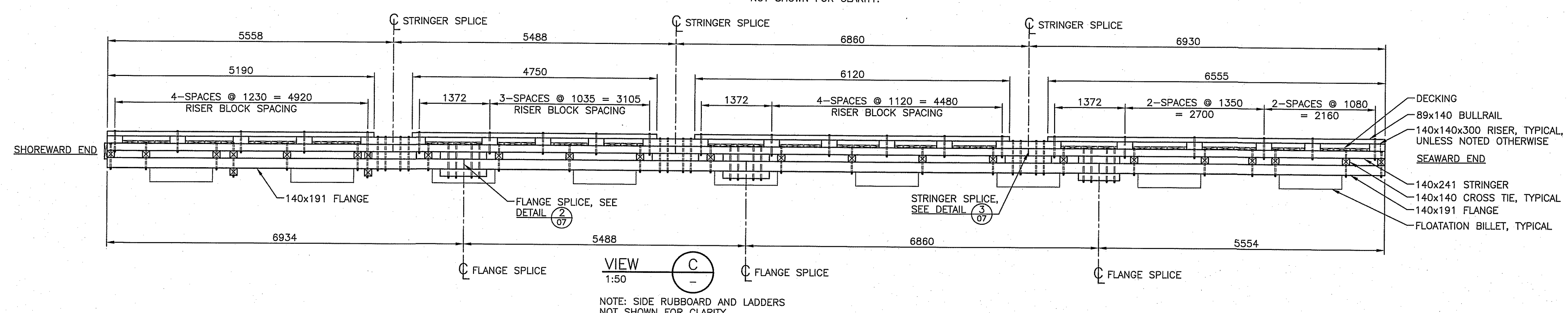
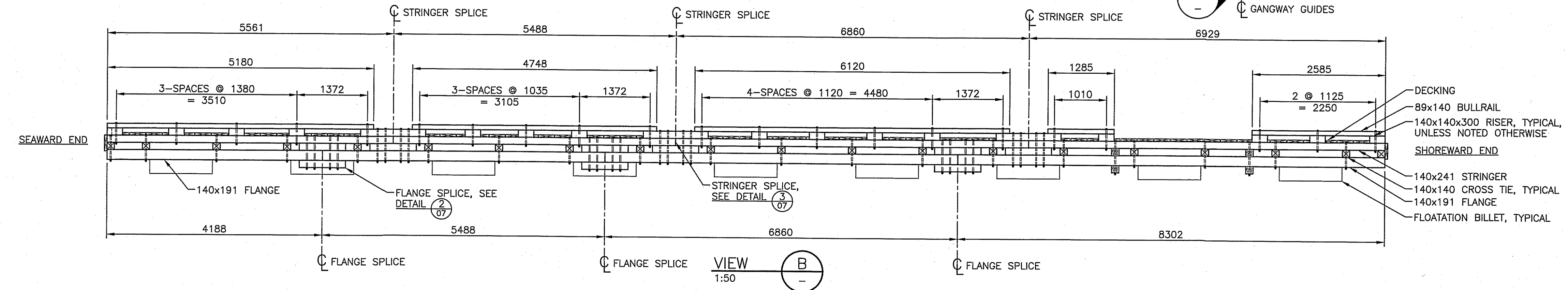
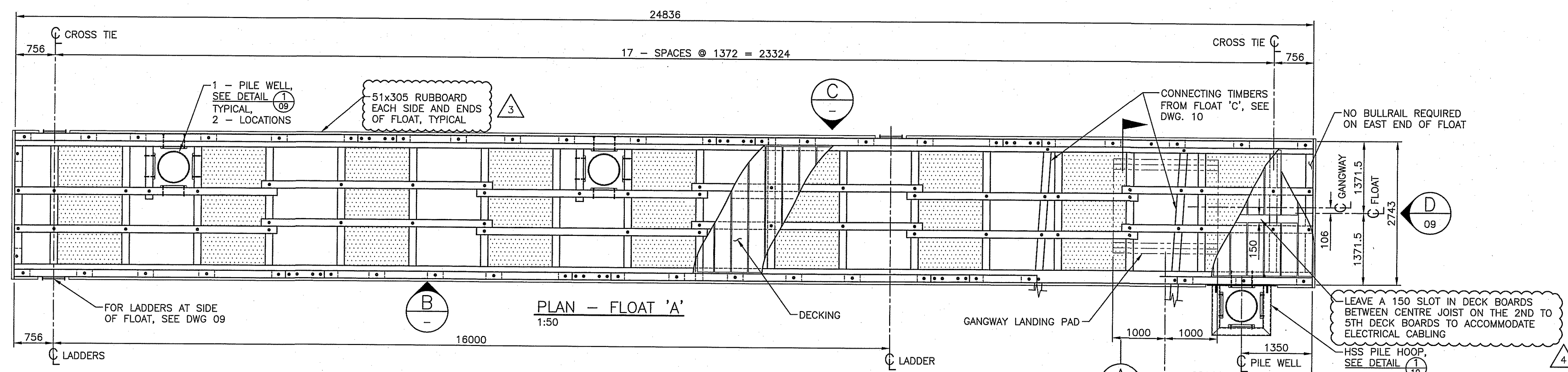
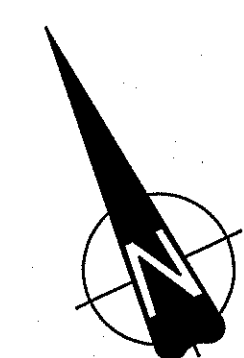
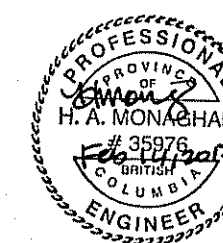
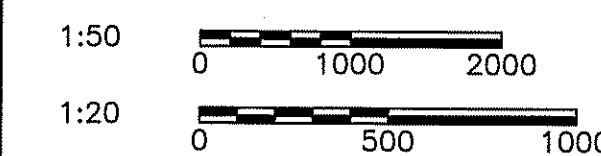
**CANADA BORDER SERVICES AGENCY**

Project title/Titre du projet  
**SOUTH PENDER ISLAND, B.C. BEDWELL HARBOUR HARBOUR REDEVELOPMENT**

Consultant Signature Only  
Designed by/Concept par  
**HAM**  
Drawn by/Designe par  
**PHU**  
PWSSC Project Manager/Administrateur de Projets TPSSC  
**JULIAN HO**  
Regional Manager, Architectural and Engineering Services  
Gestionnaire régionale, Services d'architecture et de génie, TPSSC

Drawing title/Titre du dessin  
**MOORING PILE PLAN**

Project No./No. du projet <b>R.083172.001</b>	Sheet/Feuille <b>03</b> OF 12	Revision no./La Révision no. <b>3</b>
--------------------------------------------------	-------------------------------------	------------------------------------------



Revision/	Description/Description	Date/Date
4	RE-ISSUED FOR ADDENDUM 1	17/02/14
3	ISSUED FOR ADDENDUM 1	17/02/10
2	ISSUED FOR TENDER	17/01/20
1	ISSUED FOR 90% REVIEW	16/11/04
0	ISSUED FOR 60% REVIEW	16/09/20

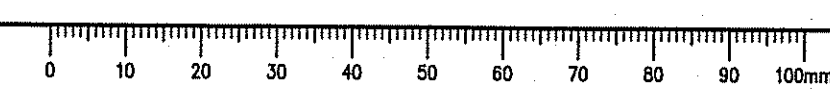
Client/Client  
**CANADA BORDER SERVICES AGENCY**

Project Title/Titre du projet  
**SOUTH PENDER ISLAND, B.C. BEDWELL HARBOUR HARBOUR REDEVELOPMENT**

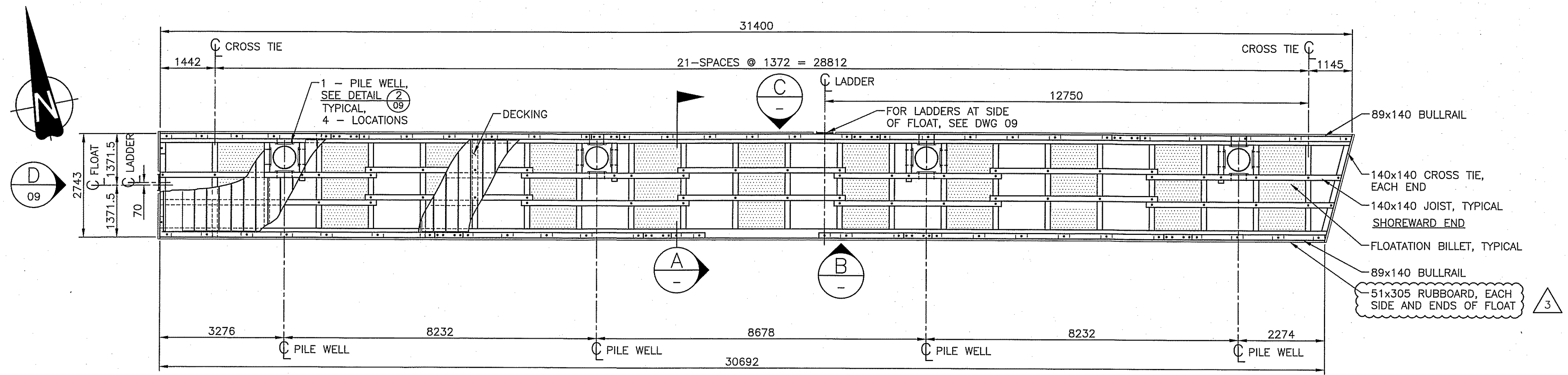
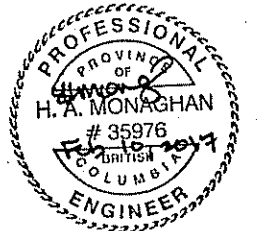
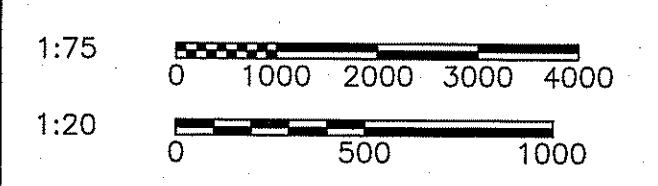
Consultant Signature Only  
Designed by/Concept par  
**HAM**  
Drawn by/Dessiné par  
**PHU**  
PWSSC Project Manager/Administrateur de Projets TPSSC  
**JULIAN HO**  
Regional Manager, Architectural and Engineering Services  
Calificados regionales, Services d'architectural et de génie, TPSSC

Drawing Title/Titre du dessin  
**FLOAT 'A' PLAN, VIEWS AND SECTION**

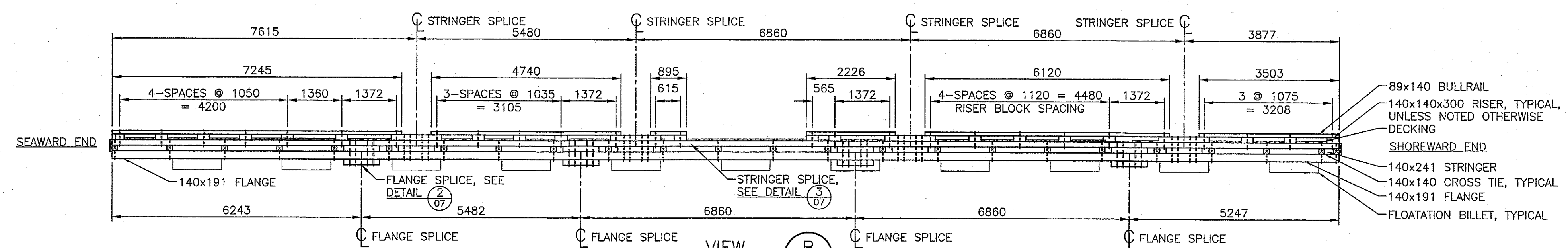
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
<b>R.083172.001</b>	<b>04</b> OF 12	<b>4</b>





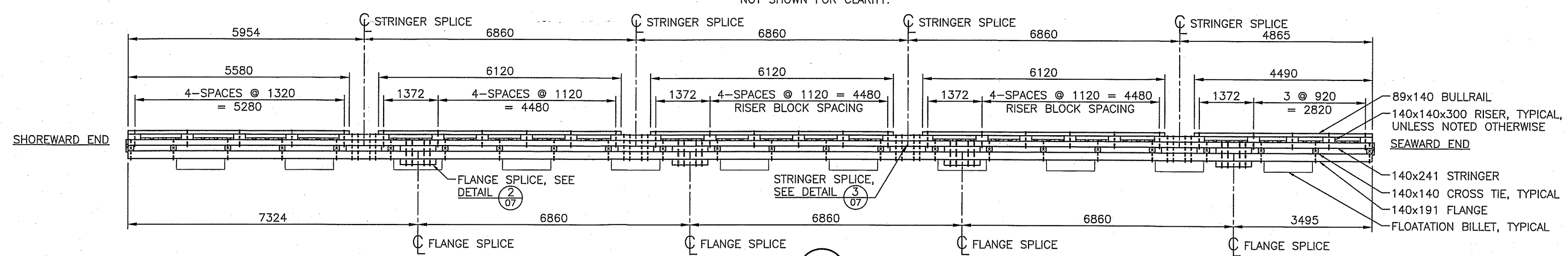


PLAN - FLOAT 'B'  
1:75



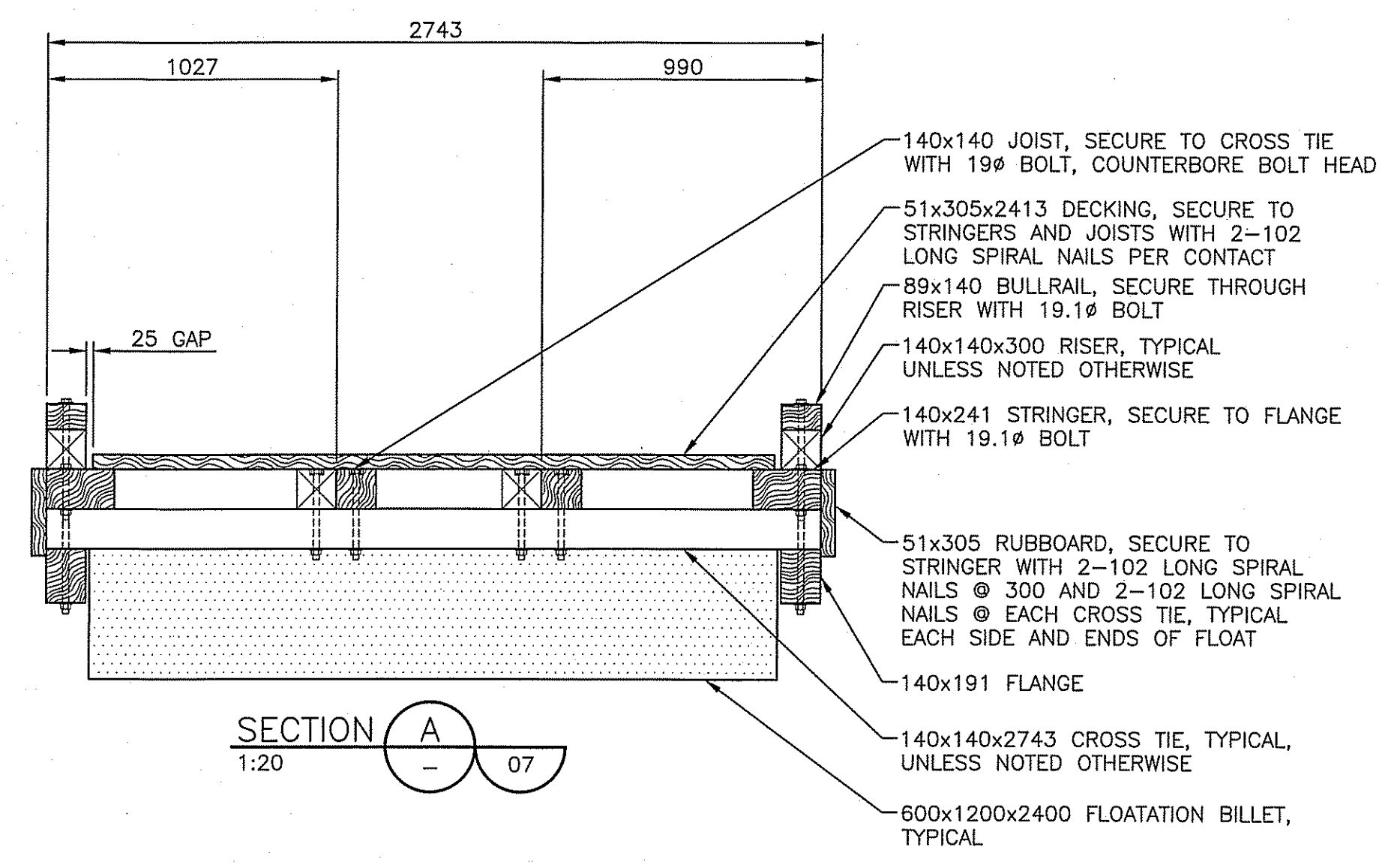
VIEW B  
1:75

NOTE: SIDE RUBBOARD AND LADDERS NOT SHOWN FOR CLARITY.



VIEW C  
1:75

NOTE: SIDE RUBBOARD AND LADDERS NOT SHOWN FOR CLARITY.



SECTION A  
1:20

Revision/Revisions	Description/Description	Date/Date
3	ISSUED FOR ADDENDUM 1	17/02/10
2	ISSUED FOR TENDER	17/01/10
1	ISSUED FOR 99% REVIEW	16/11/04
0	ISSUED FOR 66% REVIEW	16/09/10

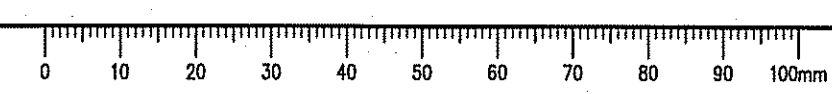
Client/Client  
**CANADA BORDER SERVICES AGENCY**

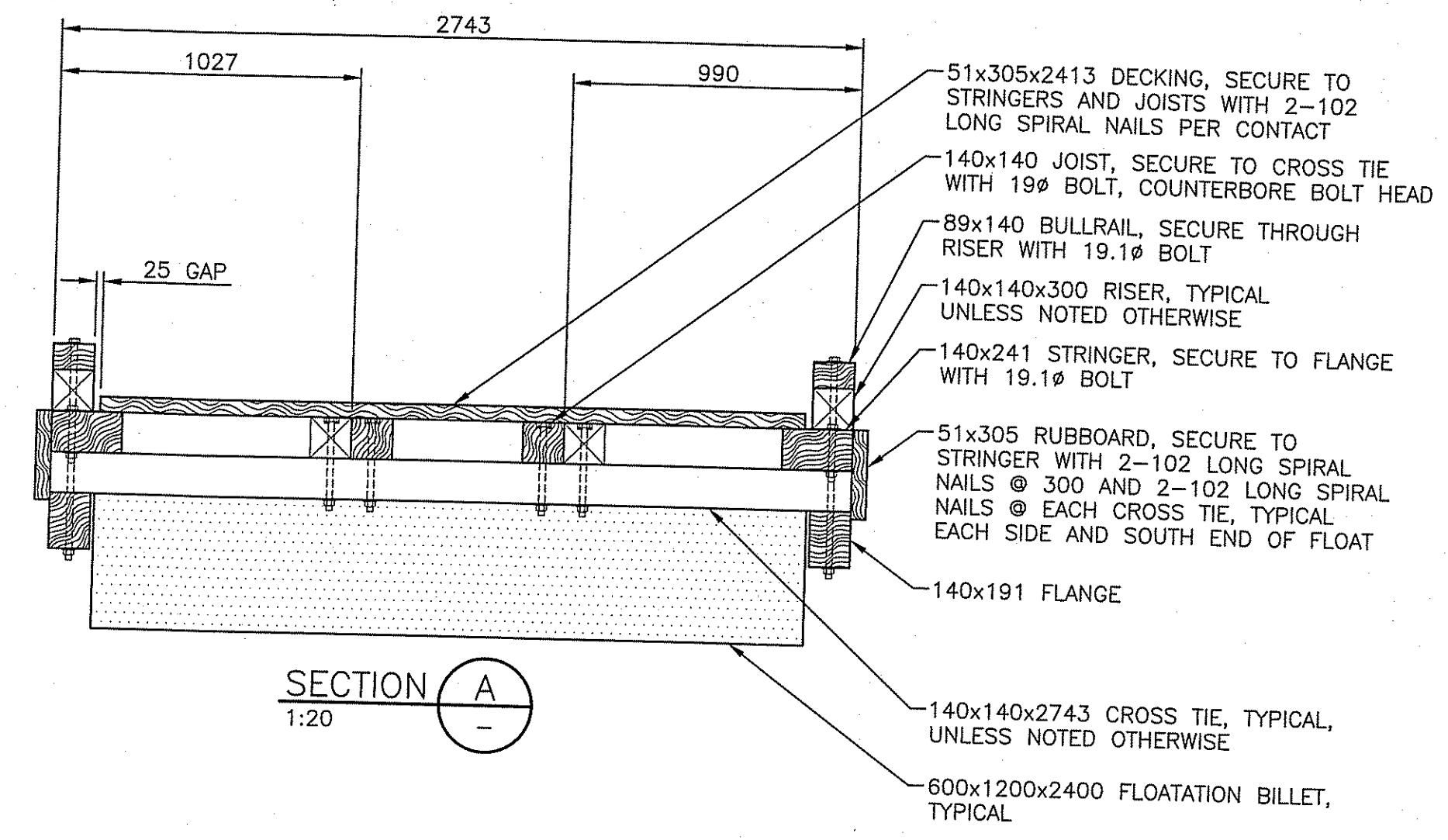
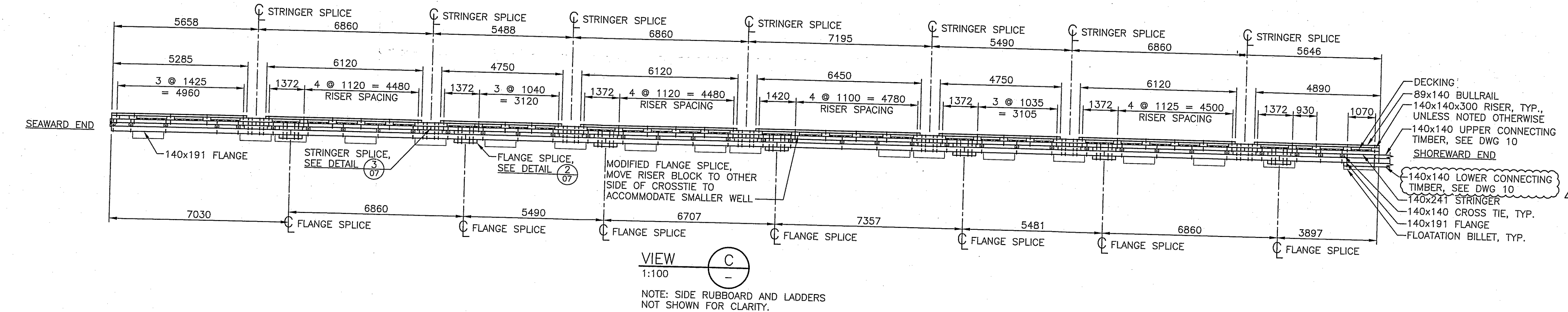
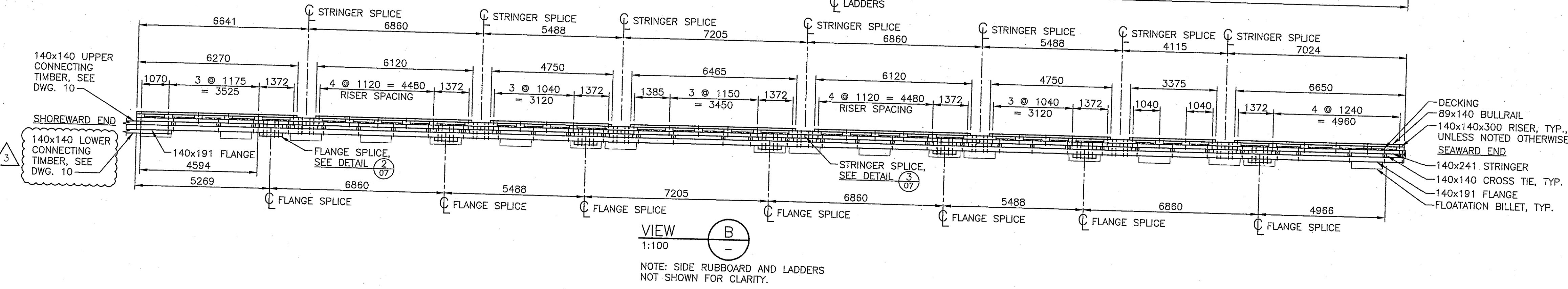
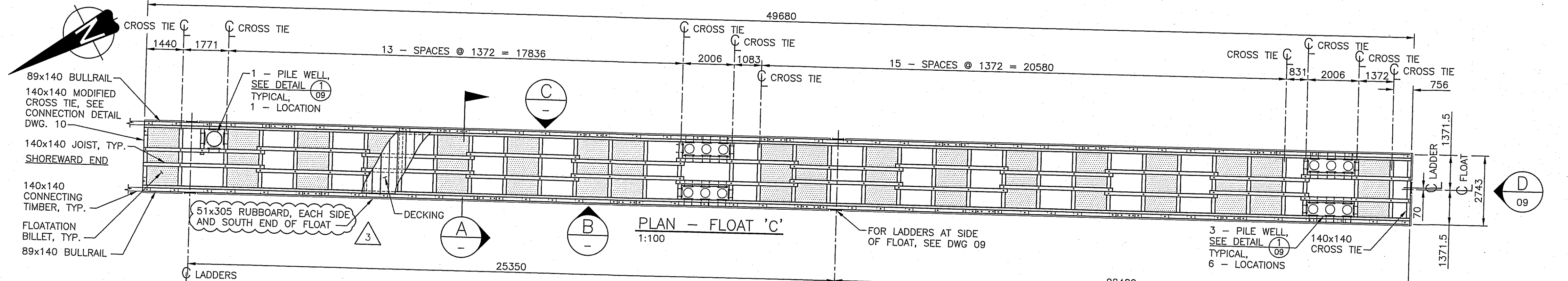
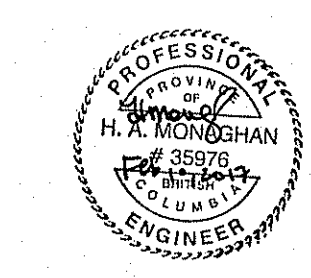
Project title/Titre du projet  
**SOUTH PENDER ISLAND, B.C. BEDWELL HARBOUR HARBOUR REDEVELOPMENT**

Consultant Signature Only  
Designed by/Concept par  
**HAM**  
Drawn by/Dessiné par  
**PHU**  
PWSSC Project Manager/Administrateur de Projets TPSSC  
**JULIAN HO**  
Regional Manager, Architectural and Engineering Services  
Gestionnaire régionale, Services d'architectural et de génie, TPSSC

Drawing title/Titre du dessin  
**FLOAT 'B' PLAN, VIEWS AND SECTION**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
<b>R.083172.001</b>	<b>05</b>	<b>3</b>





Revision/Revisions	Description/Description	Date/Date
3	ISSUED FOR ADDENDUM 1	17/02/19
2	ISSUED FOR TENDER	17/01/20
1	ISSUED FOR 90% REVIEW	16/11/04
0	ISSUED FOR 60% REVIEW	16/09/20

Client/Client: CANADA BORDER SERVICES AGENCY

Project title/Titre du projet: SOUTH PENDER ISLAND, B.C. BEDWELL HARBOUR HARBOUR REDEVELOPMENT

Consultant Signature Only

Designed by/Concept par: HAM

Drawn by/Dessiné par: PHU

PWGSC Project Manager/Administrateur de Projets TFSoc: JULIAN HO

Regional Manager, Architectural and Engineering Services, District/Division régionale, Services d'architectural et de génie, TFSoc

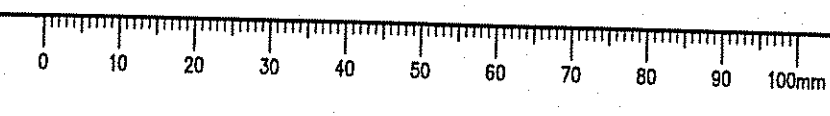
Drawing title/Titre du dessin: FLOAT 'C' PLAN, VIEWS AND SECTION

Project No./No. du projet: R.083172.001

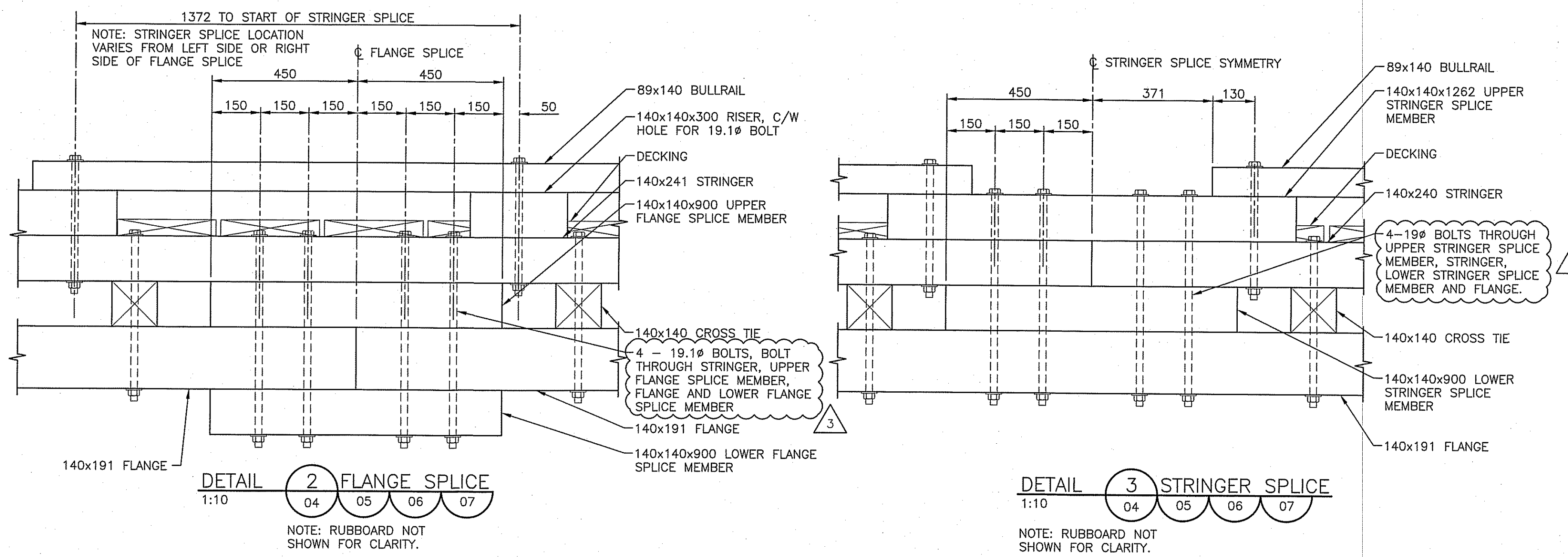
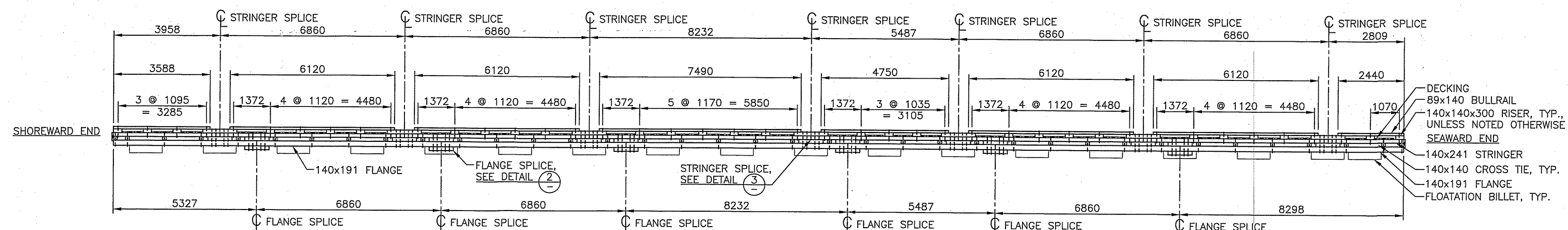
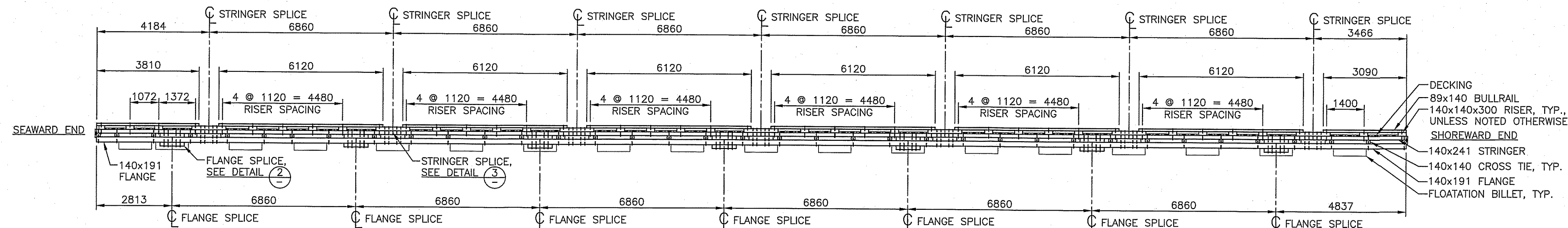
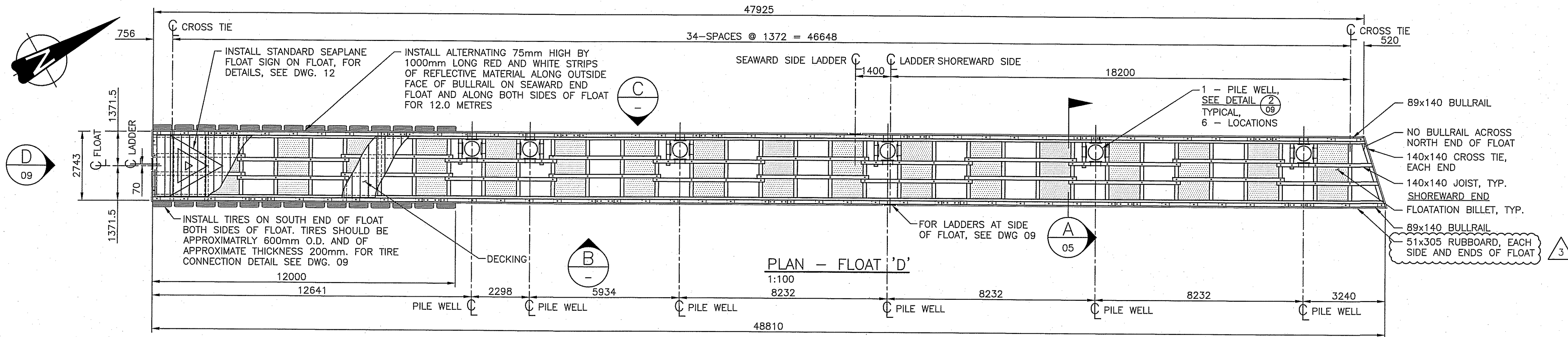
Sheet/Feuille: 06

Revision no./La Révision no.: 3

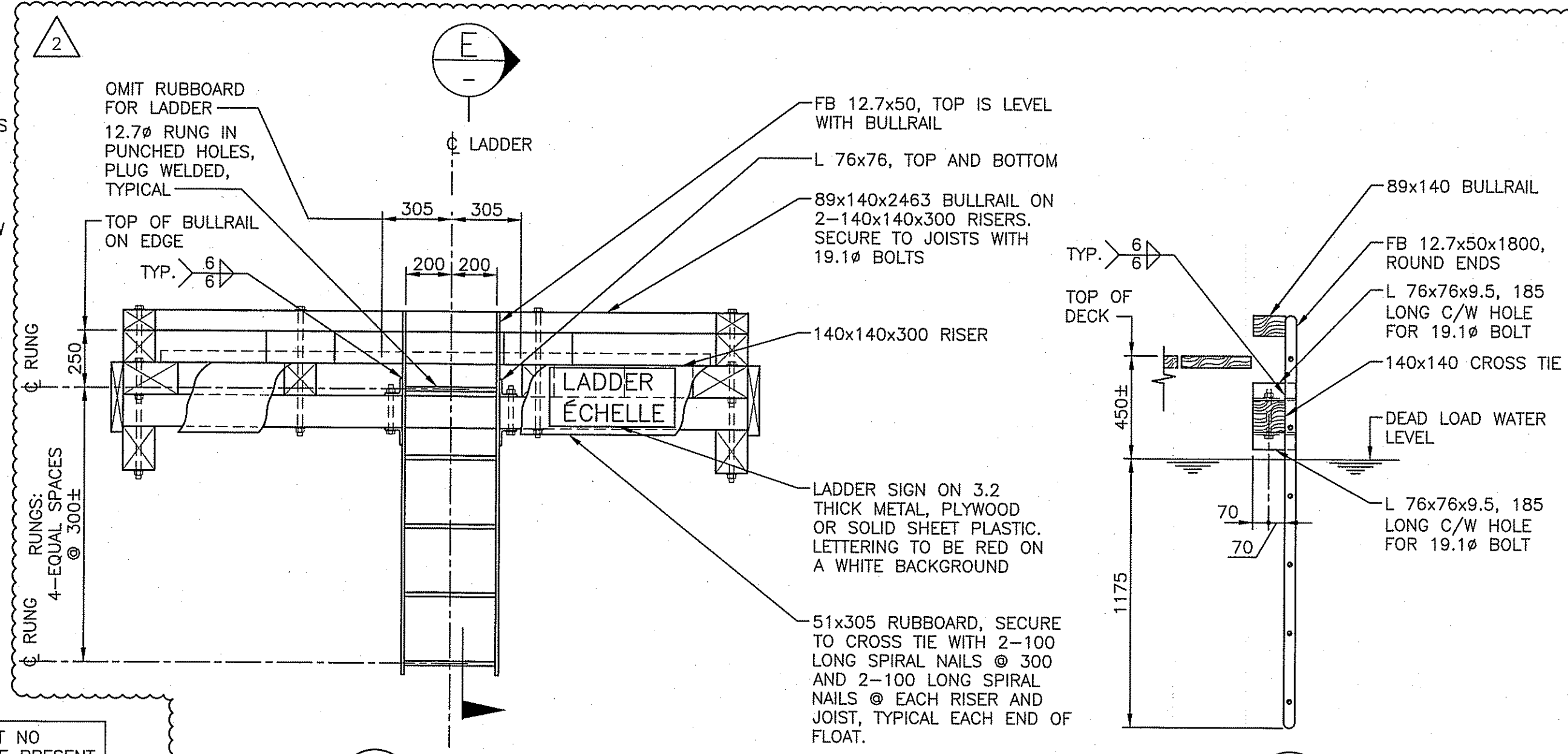
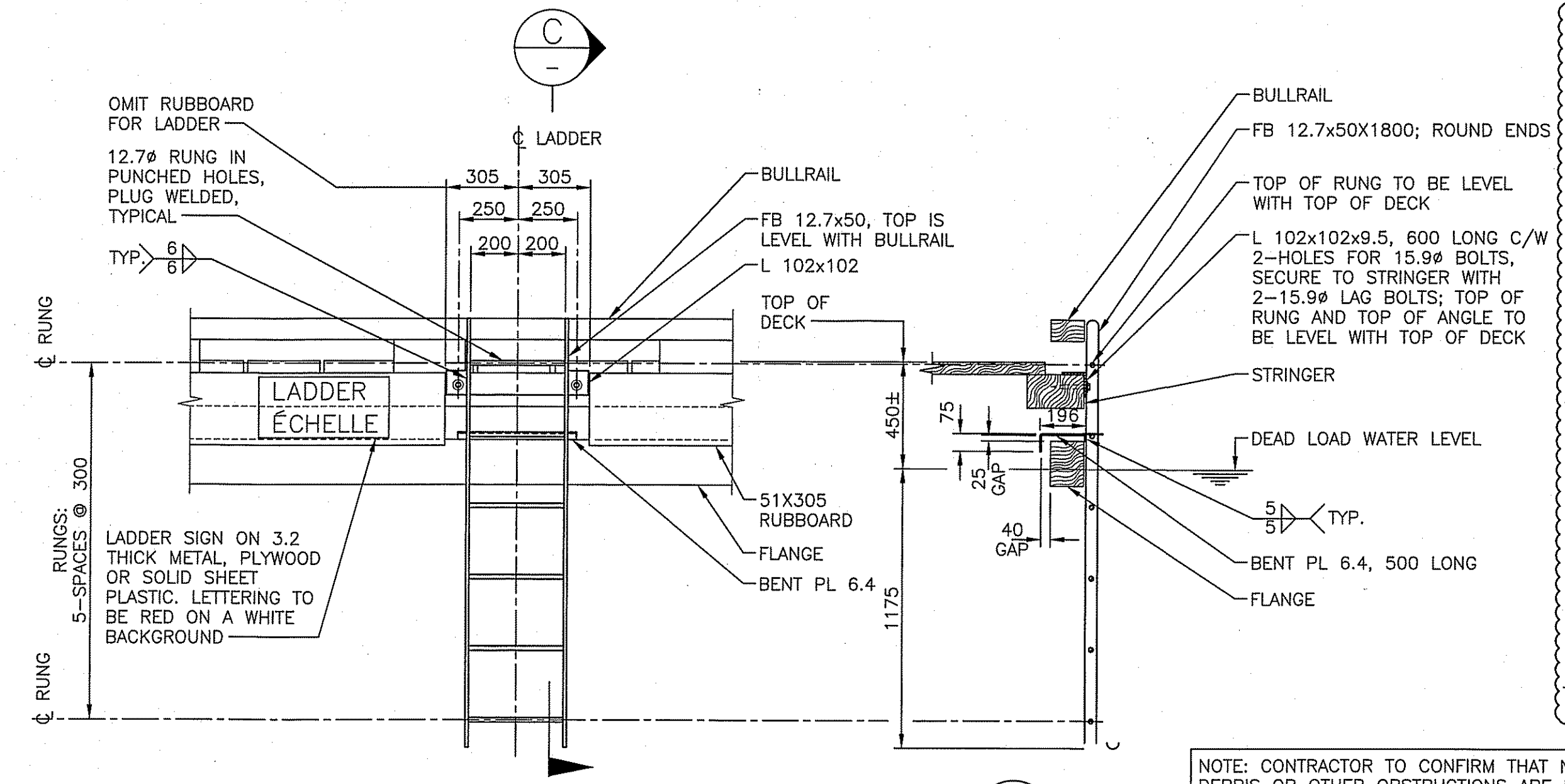
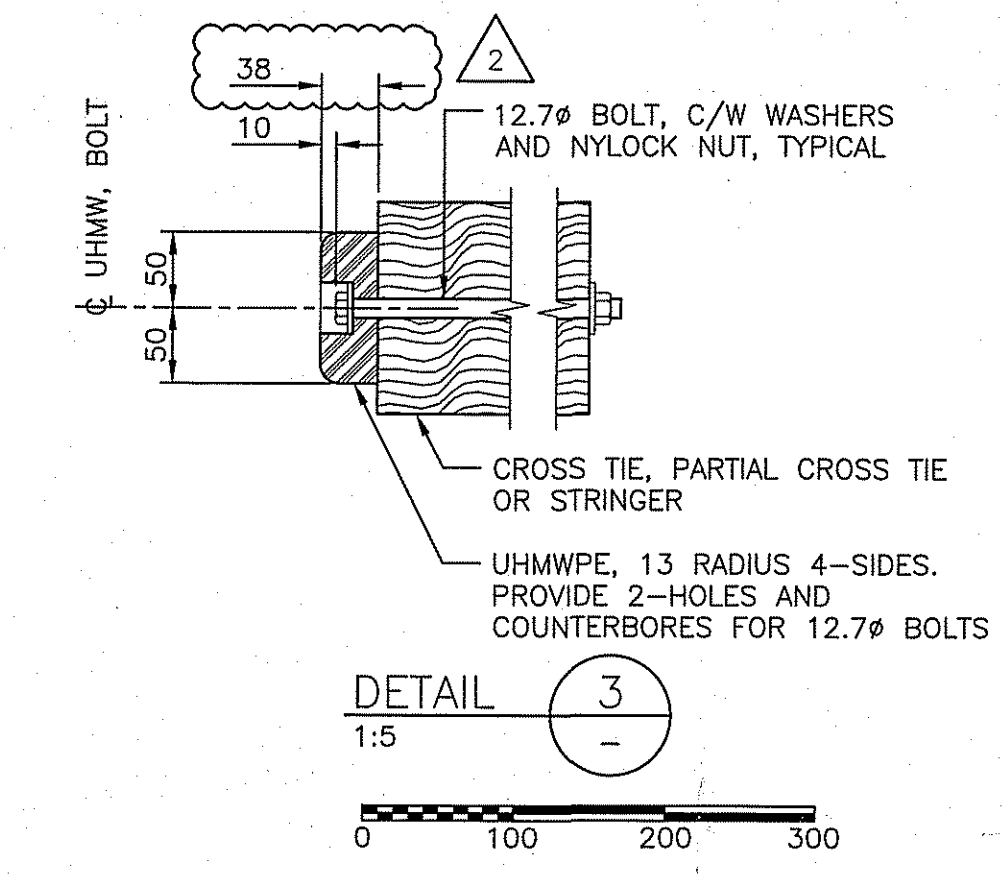
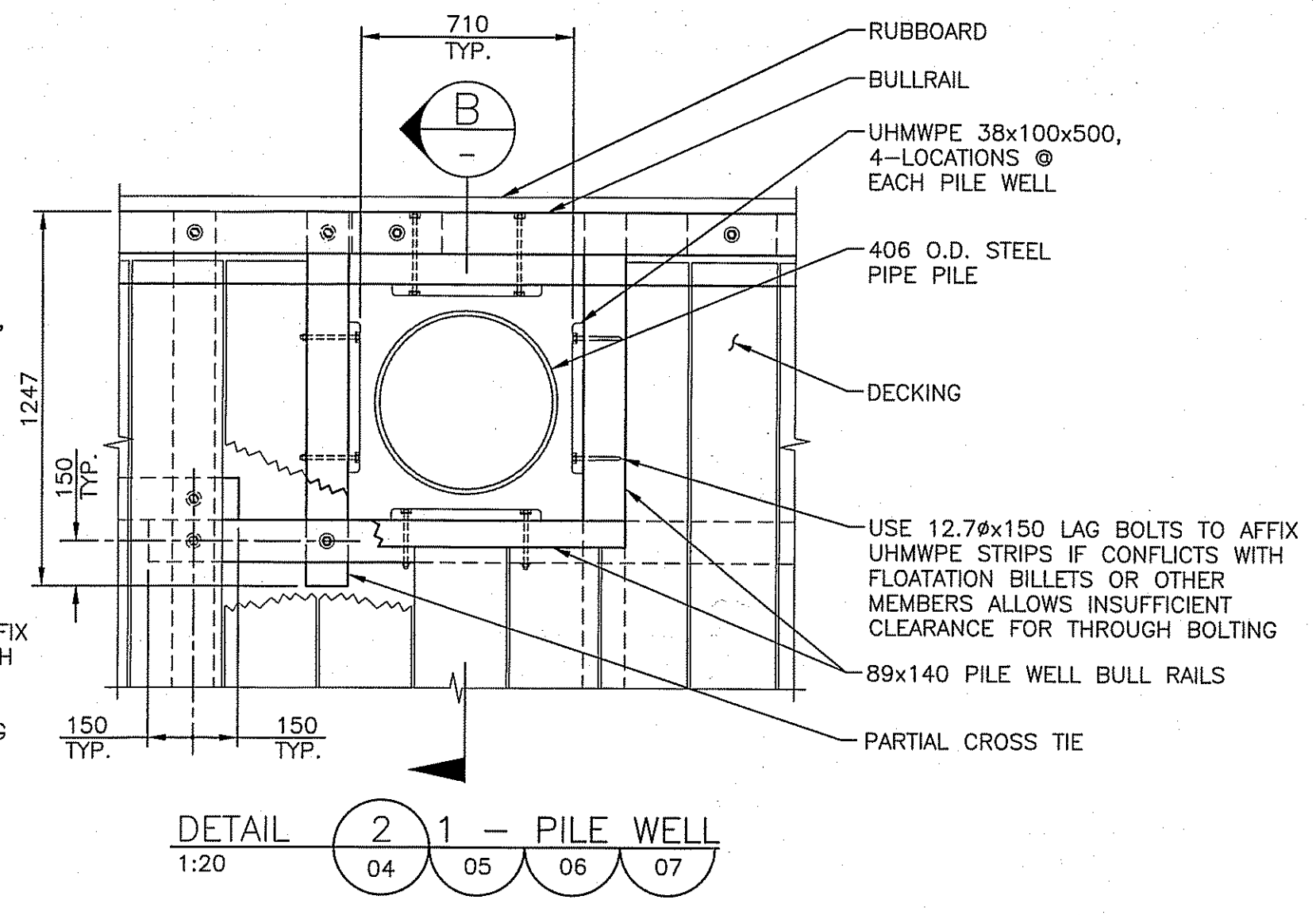
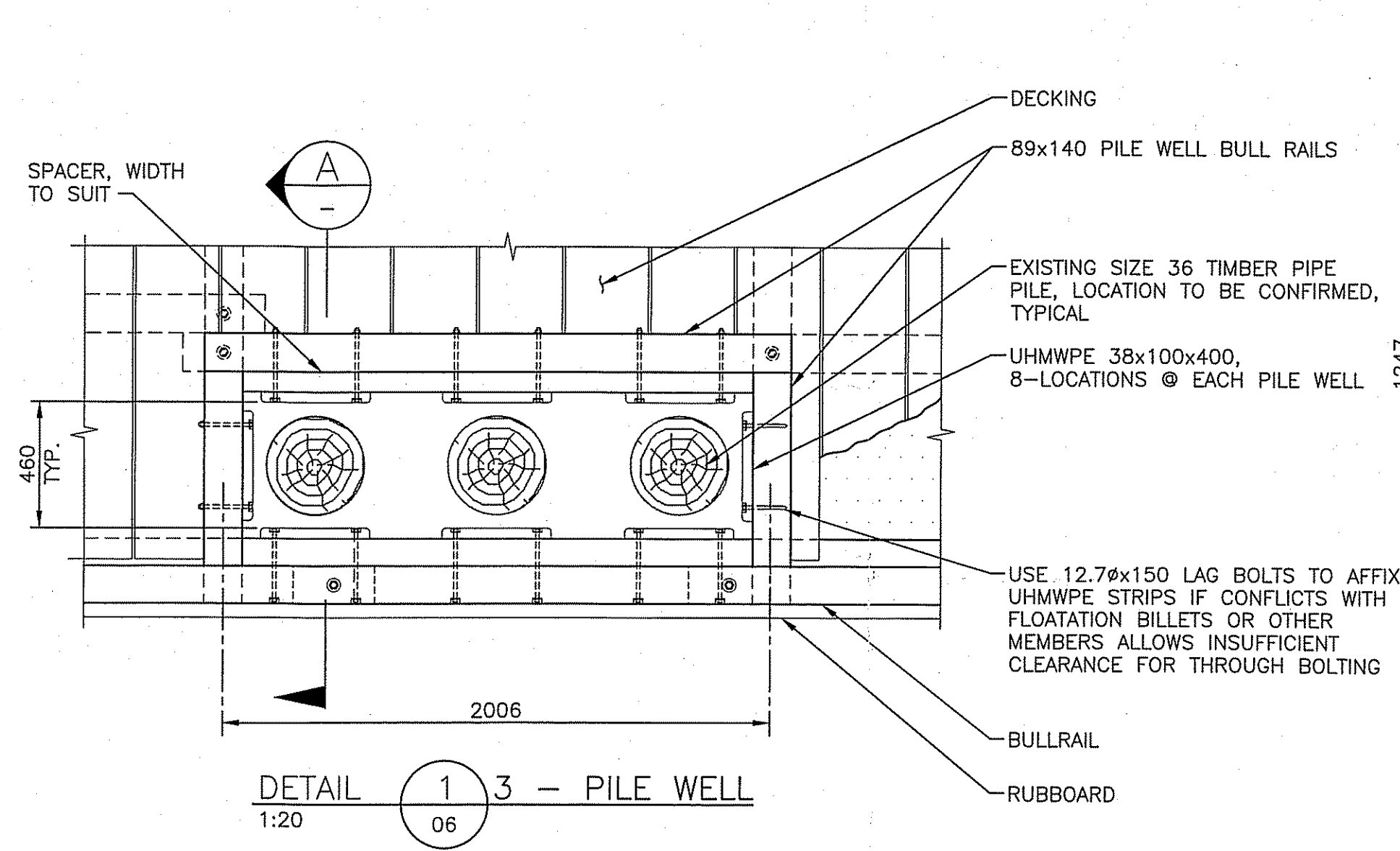
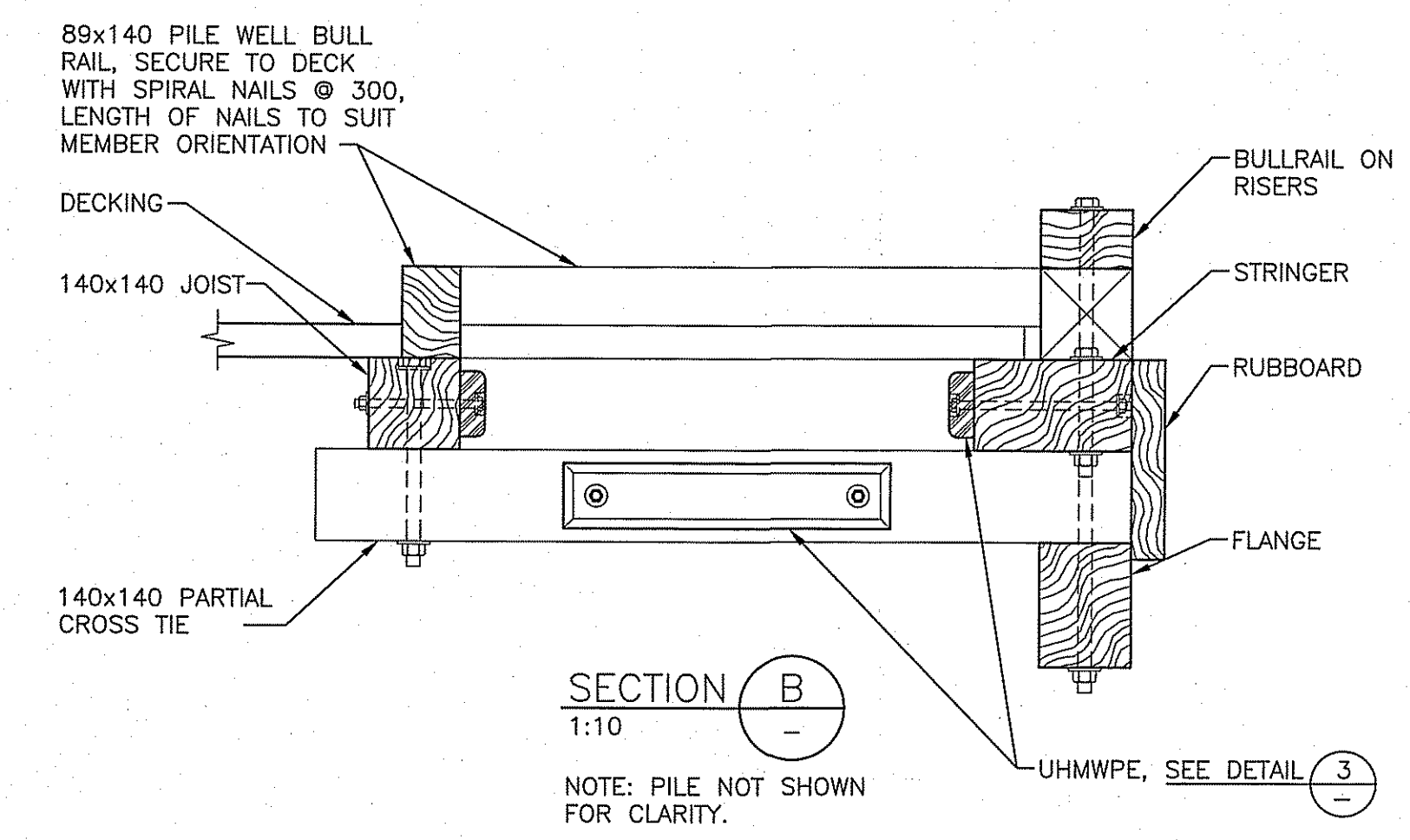
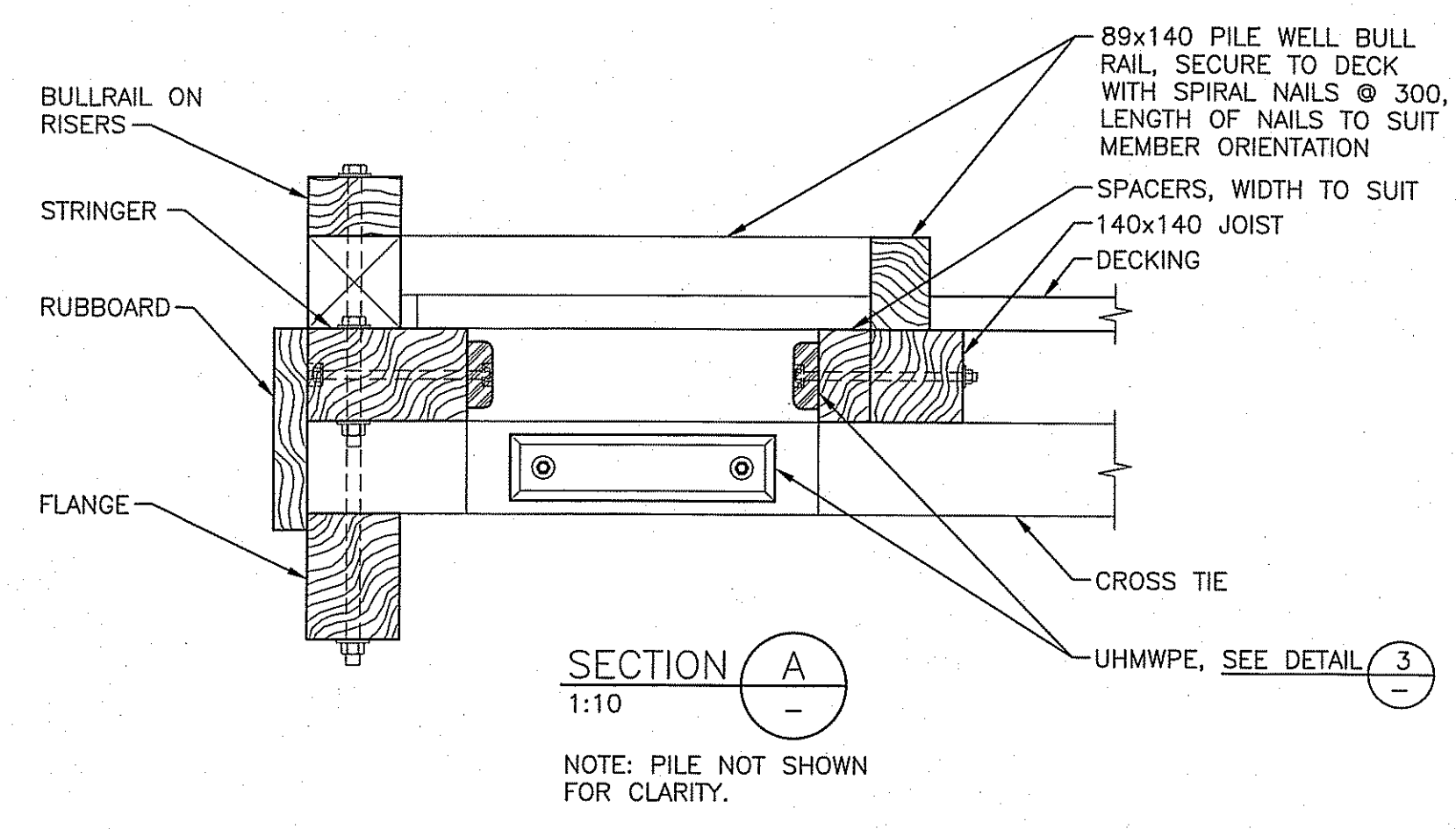
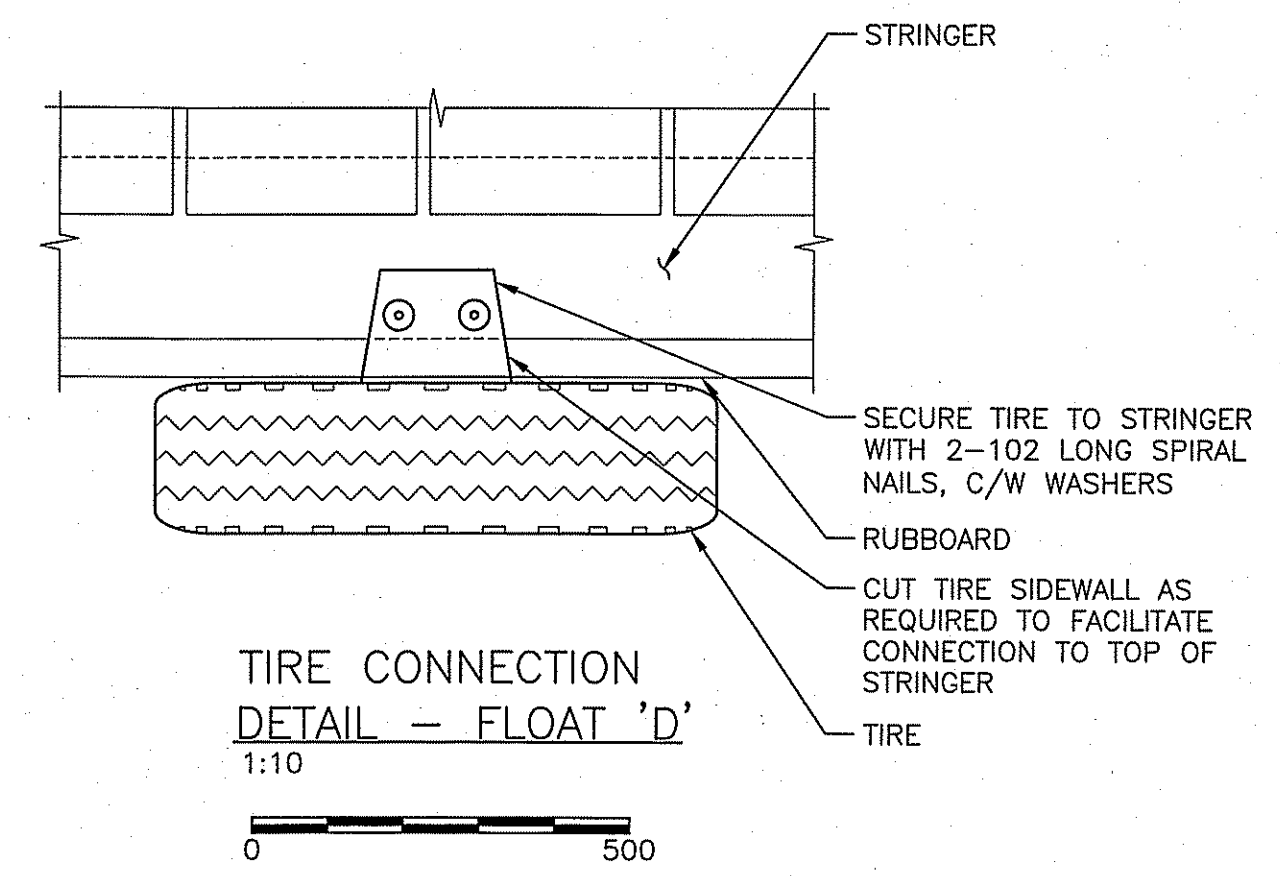
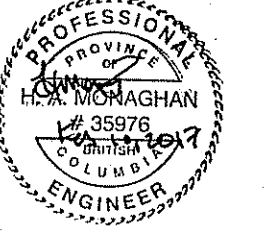
OF 12







Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada  
REAL PROPERTY SERVICES Pacific Region / SERVICES IMMOBILIERS Région de Pacifique  
**HEROLD ENGINEERING**  
1:100 0 2500 5000  
11/23/2009  
HEROLD ENGINEERING  
3 ISSUED FOR ADDENDUM 1 17/02/10  
2 ISSUED FOR TENDER 17/01/20  
1 ISSUED FOR 99% REVIEW 18/11/04  
0 ISSUED FOR 60% REVIEW 18/09/03  
Revision/Description/Date  
Client/Client  
**CANADA BORDER SERVICES AGENCY**  
Project title/Titre du projet  
**SOUTH PENDER ISLAND, B.C. BEDWELL HARBOUR HARBOUR REDEVELOPMENT**  
Consultant Signature Only  
Designed by/Concept par HAM  
Drawn by/Dessine par PHU  
PWGSC Project Manager/Administrateur de Projets TPWSC JULIAN HO  
Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPWSC  
Drawing title/Titre du dessin  
**FLOAT 'D' PLAN, VIEWS AND DETAILS**  
Project No./No. du projet: R.083172.001  
Sheet/Feuille: 07 OF 12  
Revision no./Loi Révision: 3



ELEVATION - LADDER AT SIDE OF FLOAT 1:20

SECTION C 1:20

VIEW D LADDER AT END OF FLOAT 1:20

SECTION E 1:20

NOTES:  
1. ENTIRE LADDER ASSEMBLY TO BE HOT DIPPED GALVANIZED.  
2. 10 - REQUIRED. FOR LOCATIONS, SEE DWGS. 04, 05, 06 AND 07.

NOTE: CONTRACTOR TO CONFIRM THAT NO DEBRIS OR OTHER OBSTRUCTIONS ARE PRESENT ON THE SEA FLOOR IN THE INTENDED LOCATION OF THE LADDERS. IF FOUND, CONTACT THE DEPARTMENT REPRESENTATIVE FOR INSTRUCTION PRIOR TO INSTALLATION.

NOTES:  
1. ENTIRE LADDER ASSEMBLY TO BE HOT DIPPED GALVANIZED.  
2. 3 - REQUIRED. FOR LOCATIONS, SEE DWGS. 05, 06 AND 07.  
3. NO LADDER, RISERS OR BULLRAIL REQUIRED FOR EAST END OF FLOAT 'A'.

Revision/	Description/	Date/
3		
2	ISSUED FOR ADDENDUM 1	17/02/10
1	ISSUED FOR TENDER	17/01/03
0	ISSUED FOR 99% REVIEW	16/11/04

Client/Client  
**CANADA BORDER SERVICES AGENCY**

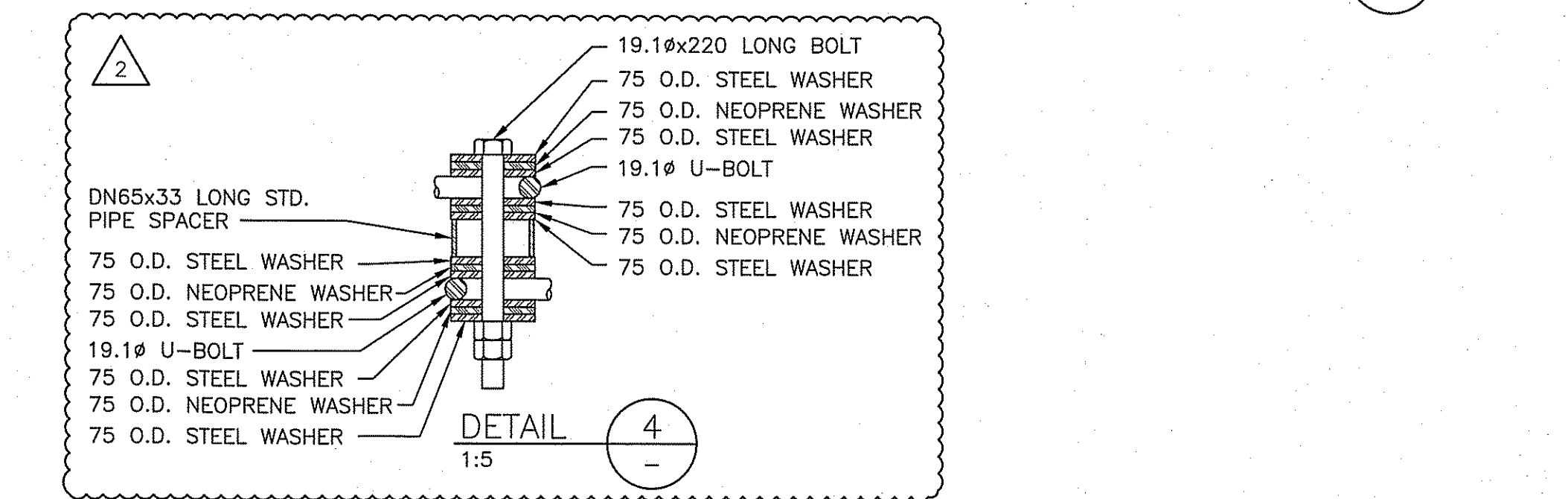
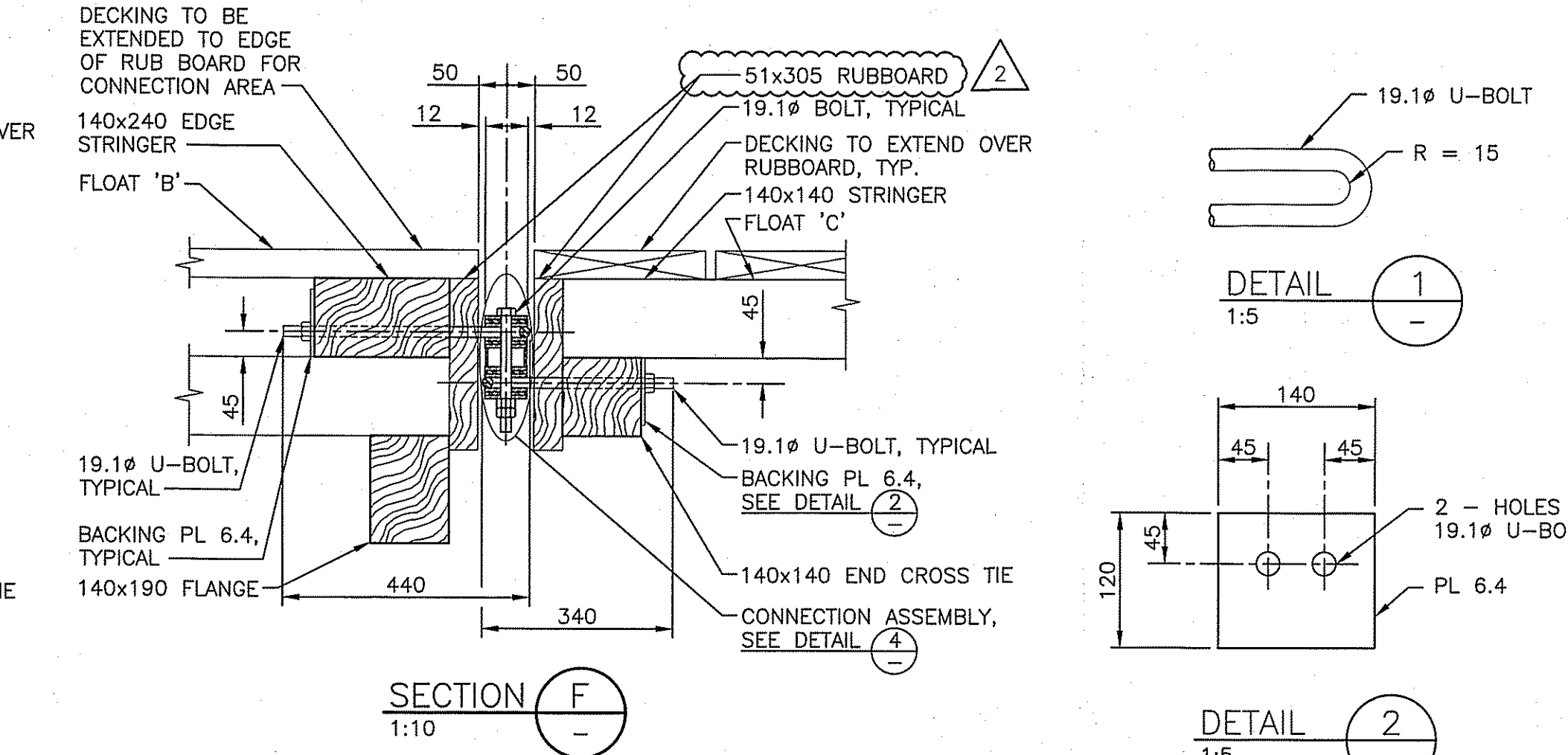
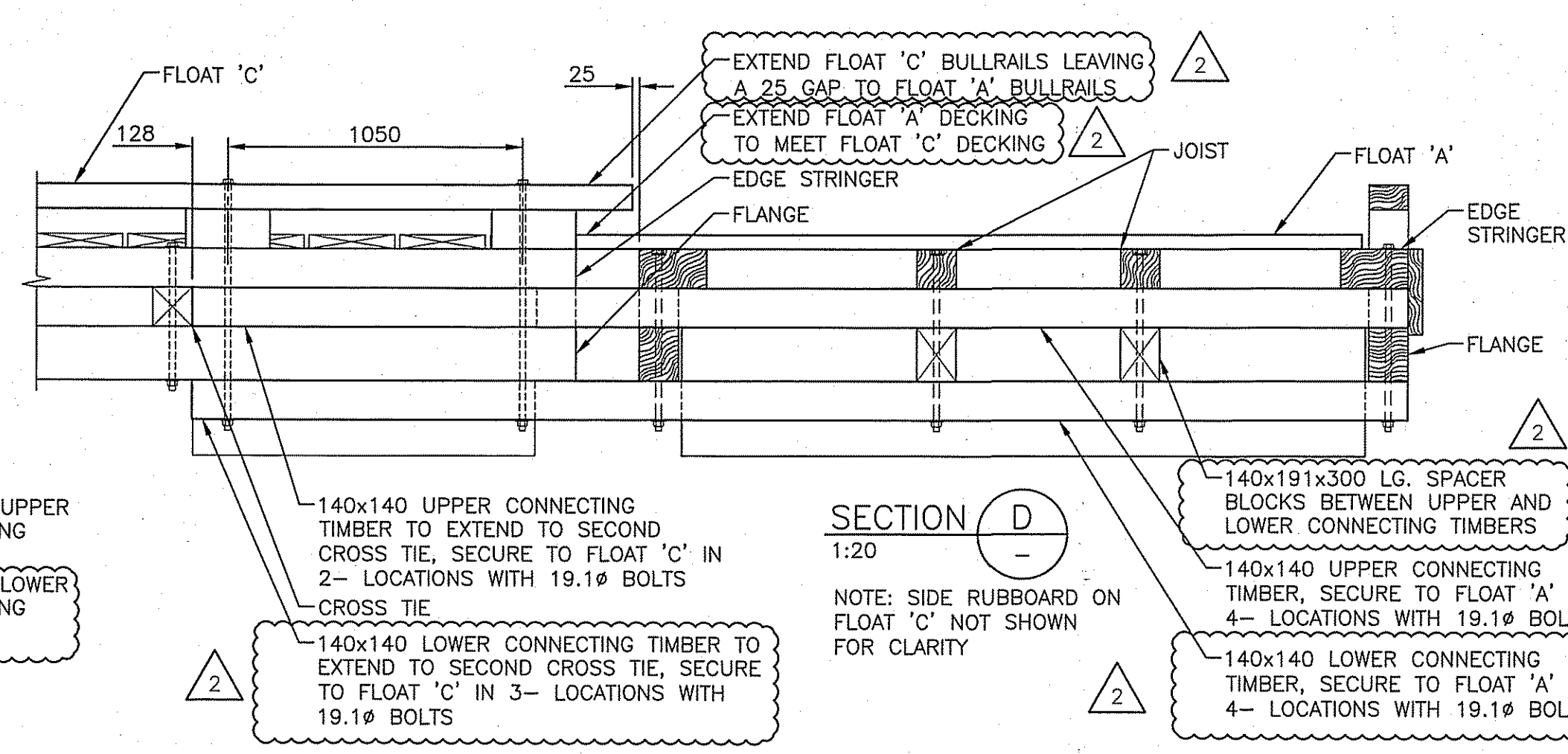
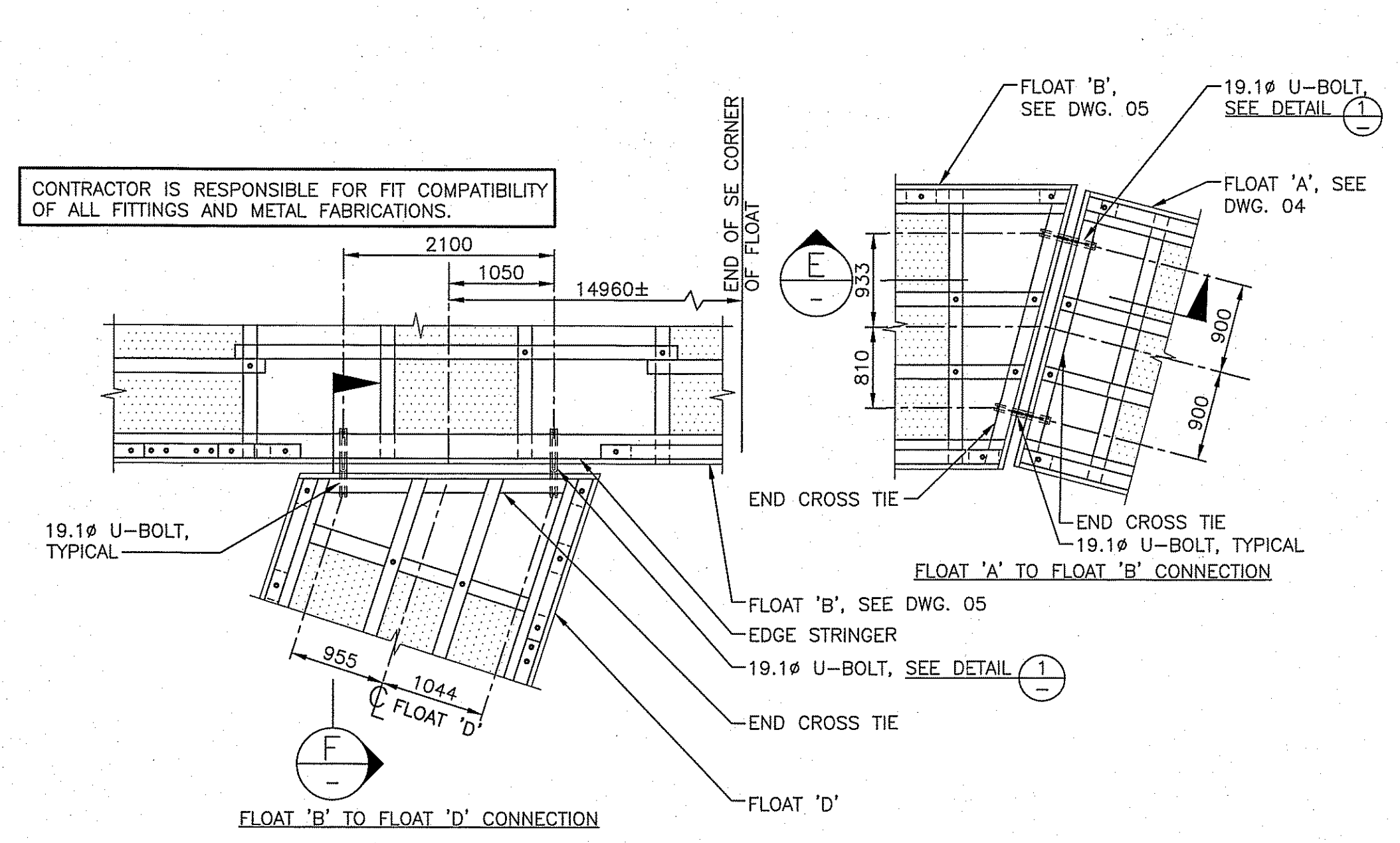
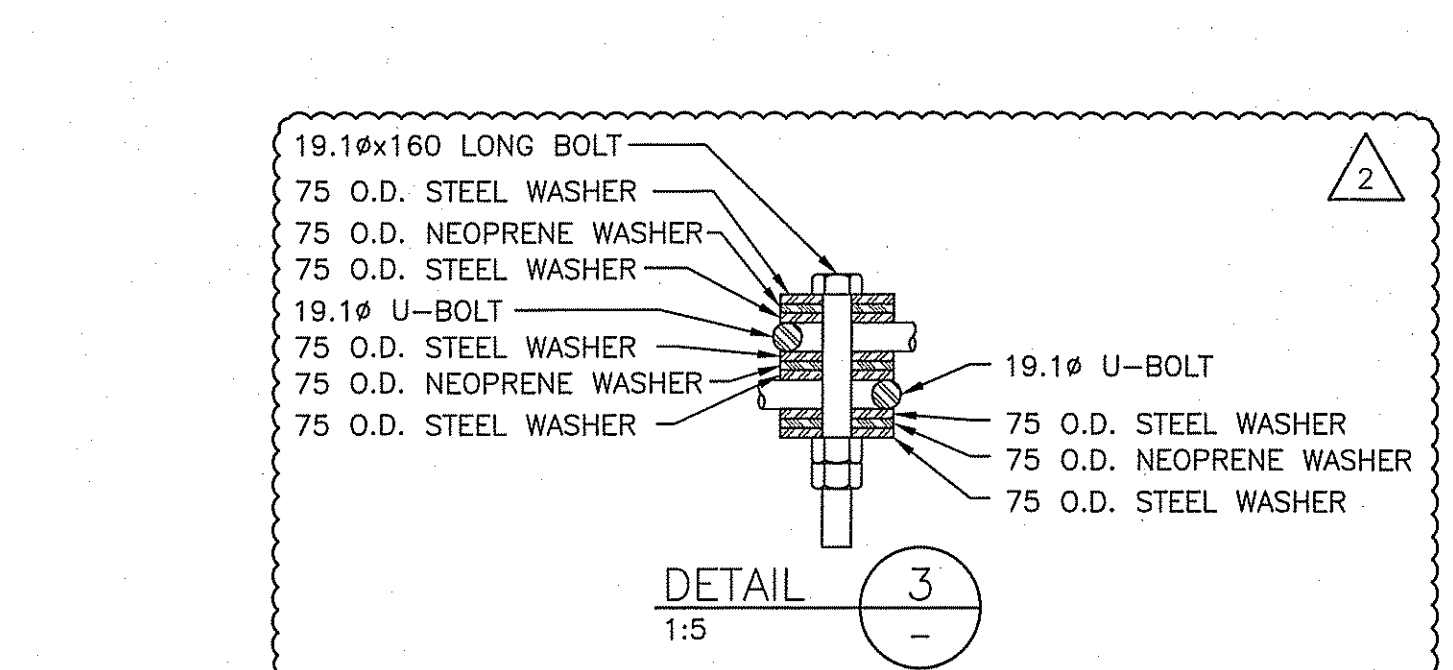
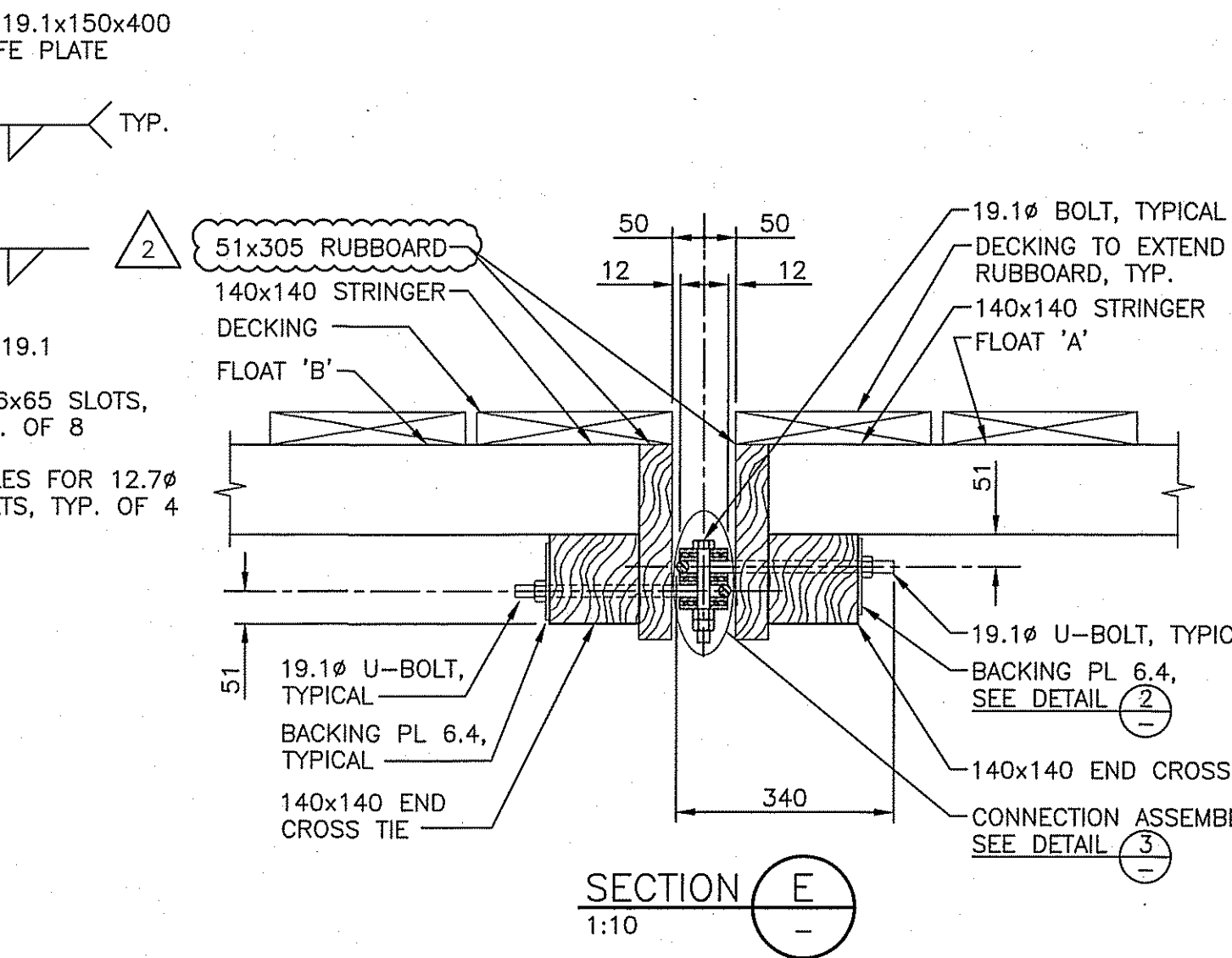
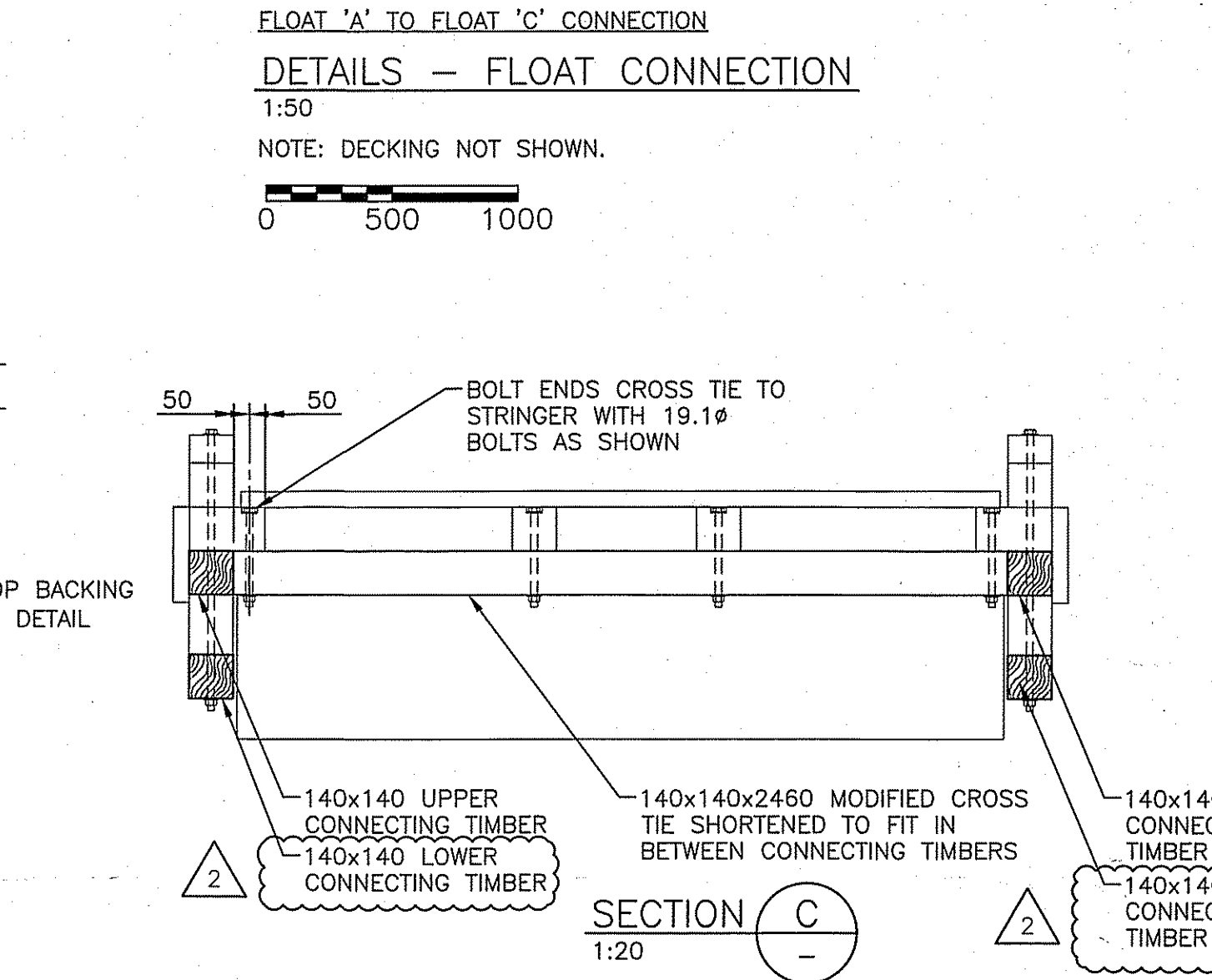
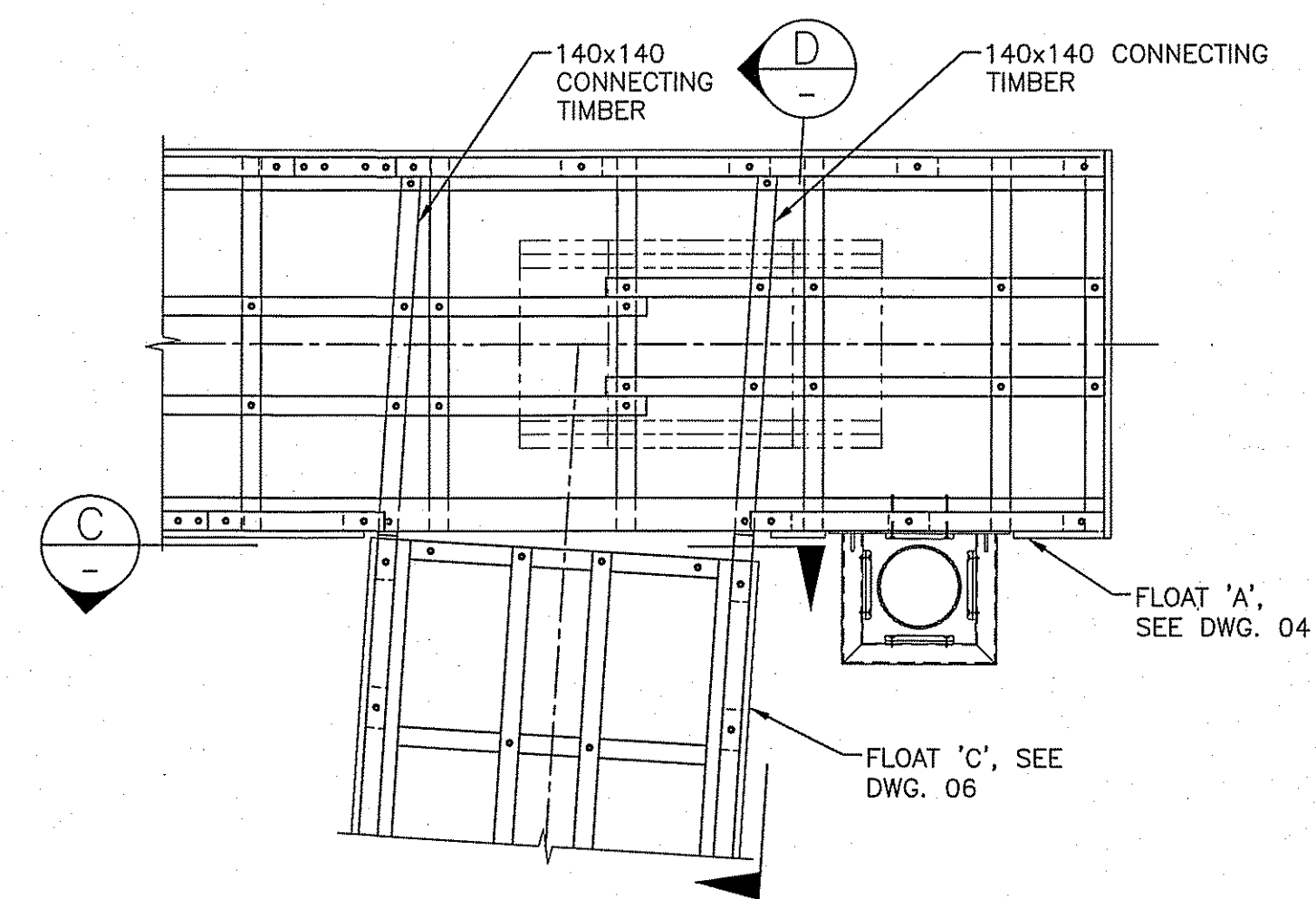
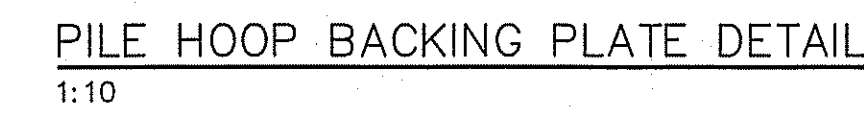
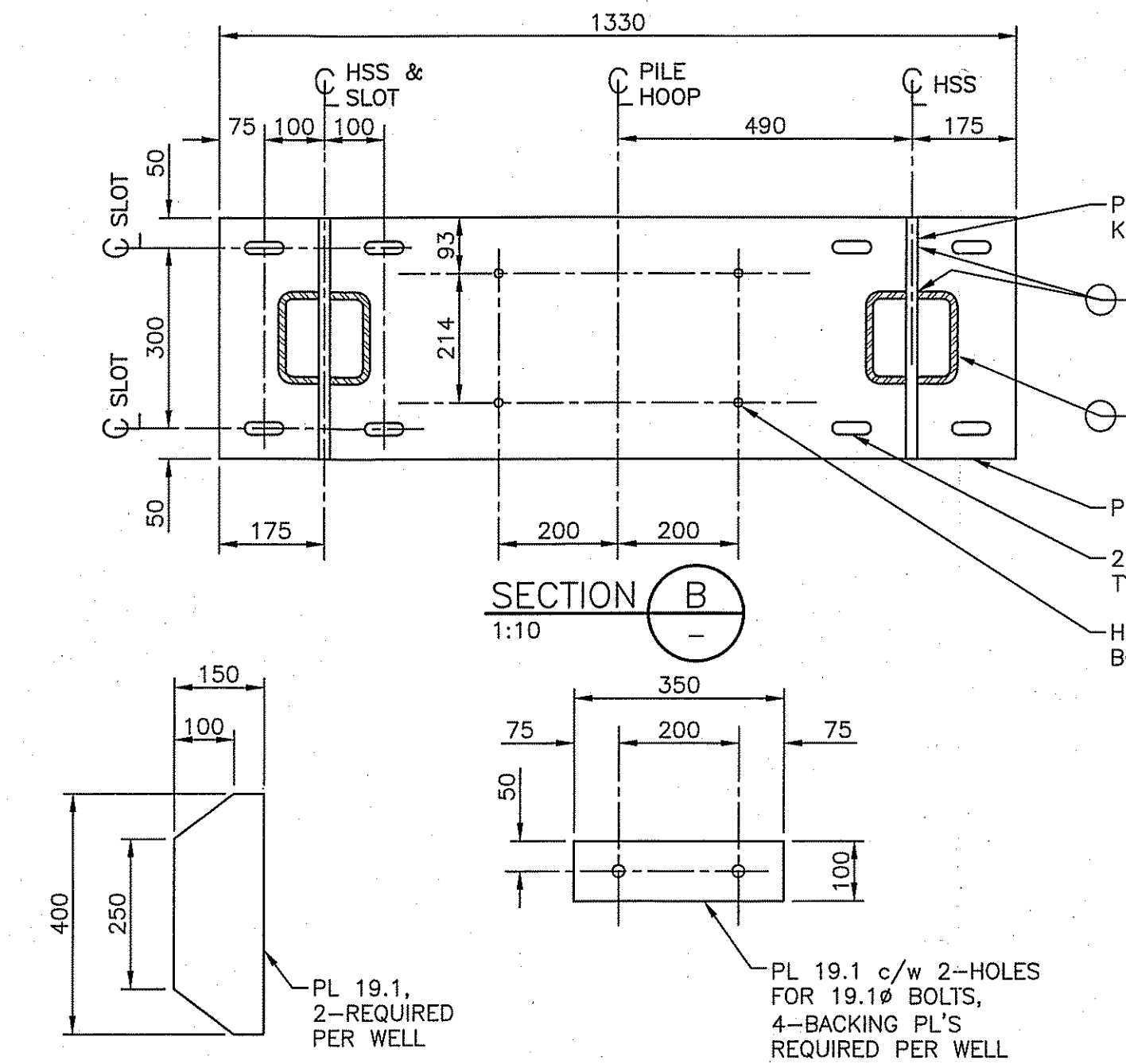
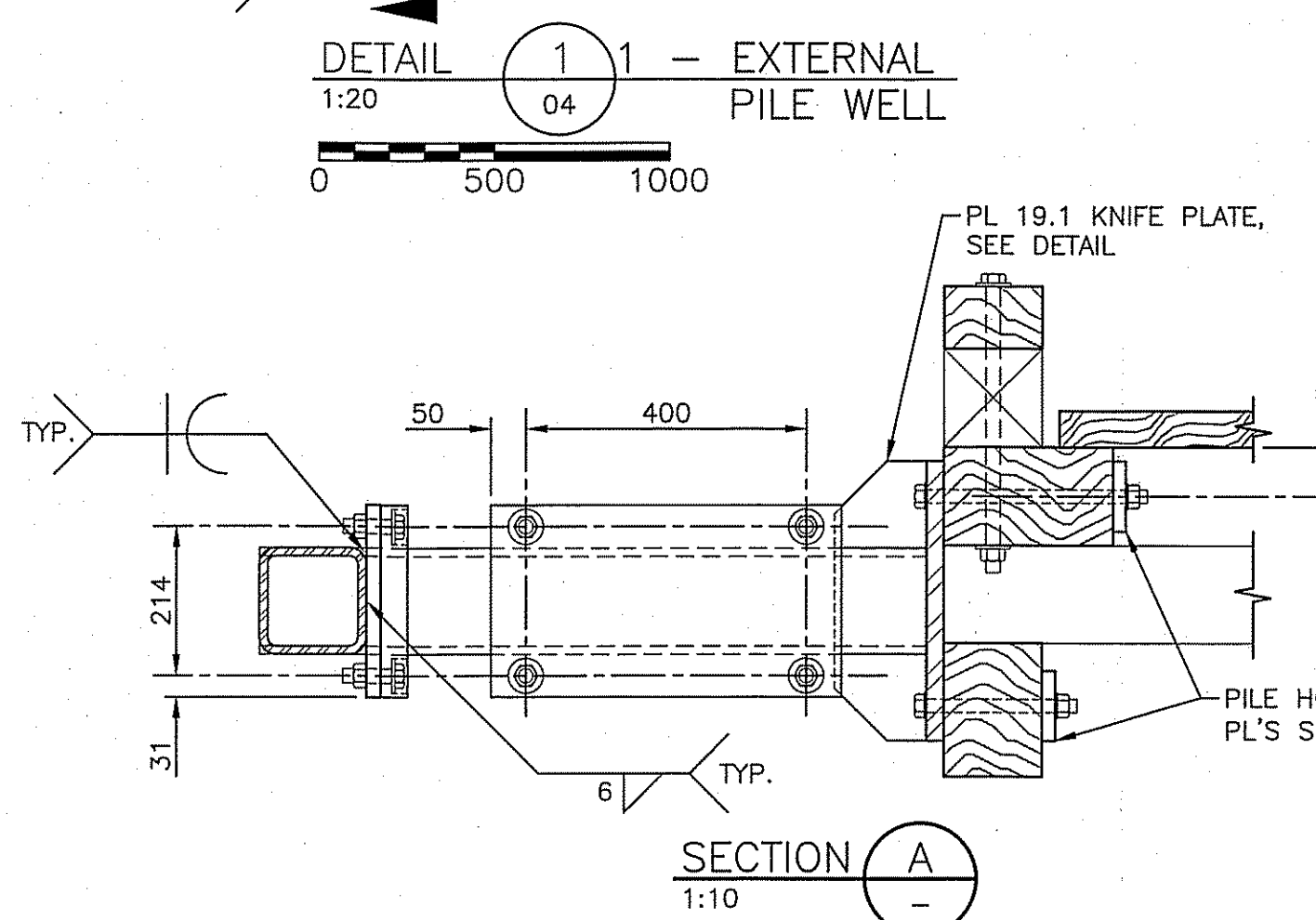
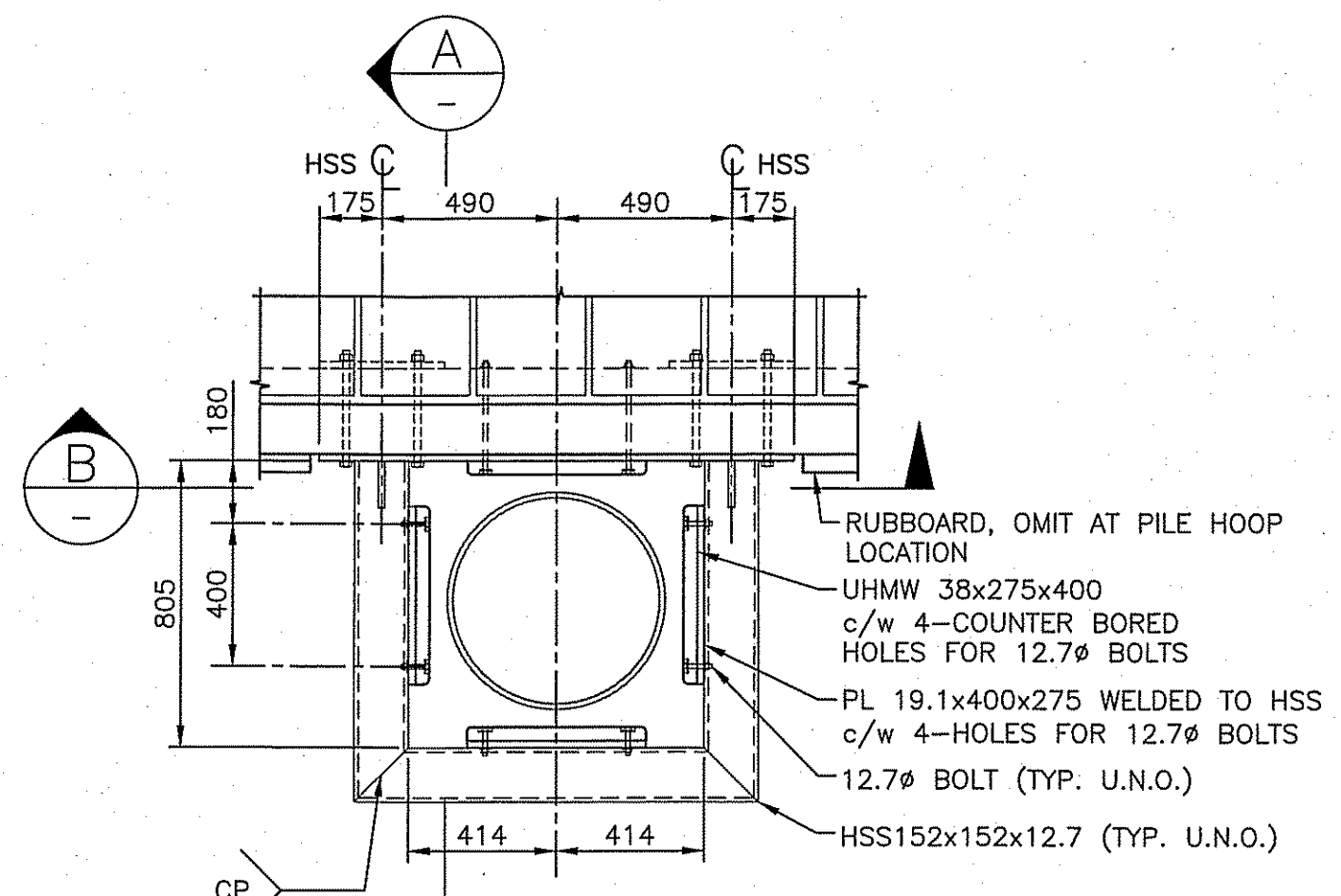
Project title/Titre du projet  
**SOUTH PENDER ISLAND, B.C. BEDWELL HARBOUR HARBOUR REDEVELOPMENT**

Consultant Signature Only  
Designed by/Concept par: HAD  
Drawn by/Dessiné par: JJMC  
PWSSC Project Manager/Administrateur de Projets TPSSC: JULIAN HO  
Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSSC

Drawing title/Titre du dessin  
**FLOAT DETAILS SHEET 1**

Project No./No. du projet	Sheet/Feuille	Revision no./La révision
R.083172.001	09	2





Revision/Revision	Description/Description	Date/Date
3		
2	ISSUED FOR ADDENDUM 1	17/02/10
1	ISSUED FOR TENDER	17/01/10
0	ISSUED FOR 99% REVIEW	16/11/04

Client/Client: CANADA BORDER SERVICES AGENCY

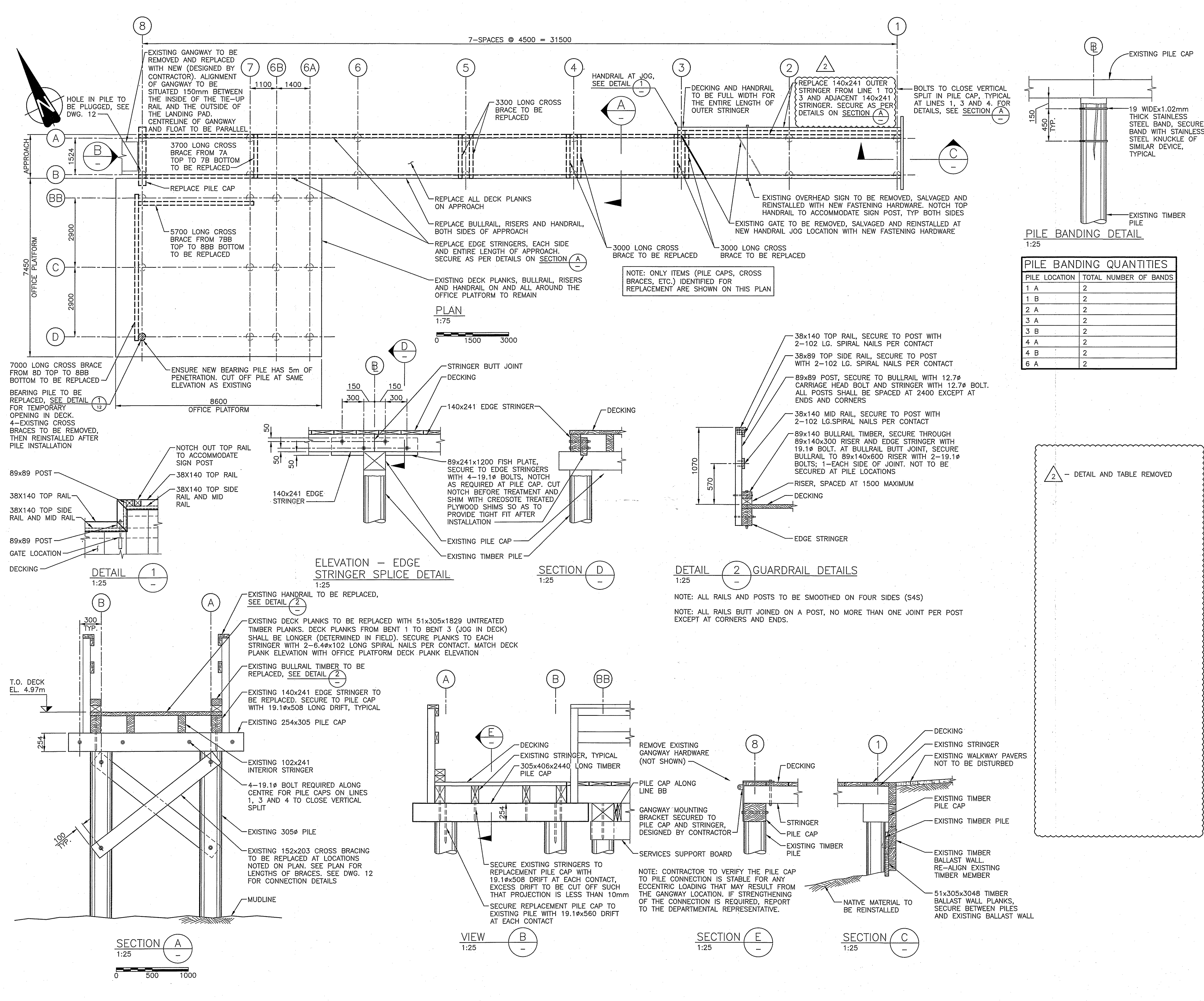
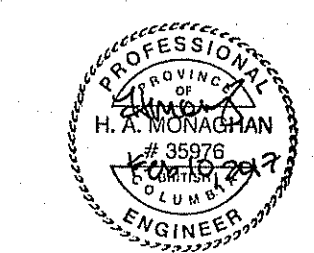
Project Title/Titre du projet: SOUTH PENDER ISLAND, B.C. BEDWELL HARBOUR HARBOUR REDEVELOPMENT

Consultant Signature Only

Designed by/Conçue par: HAM  
Drawn by/Dessiné par: JJMC  
PWOSC Project Manager/Administrateur de Projets: JULIAN HO  
Regional Manager, Architectural and Engineering Services/Gestionnaire Régionale, Services d'architectural et de génie: JPSC

Drawing Title/Titre du dessin: FLOAT DETAILS SHEET 2

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.083172.001	10	2



PILE BANDING DETAIL  
1:25

PILE BANDING QUANTITIES	
PILE LOCATION	TOTAL NUMBER OF BANDS
1 A	2
1 B	2
2 A	2
3 A	2
3 B	2
4 A	2
4 B	2
6 A	2

2 - DETAIL AND TABLE REMOVED

Revision/	Description/Description	Date/Date
3		
2	ISSUED FOR ADDENDUM 1	17/02/10
1	ISSUED FOR TENDER	17/01/20
0	ISSUED FOR 99% REVIEW	18/11/04

Client/client  
**CANADA BORDER SERVICES AGENCY**

Project title/Titre du projet

**SOUTH PENDER ISLAND, B.C. BEDWELL HARBOUR HARBOUR REDEVELOPMENT**

Consultant Signature Only

Designed by/Concept par  
HAM

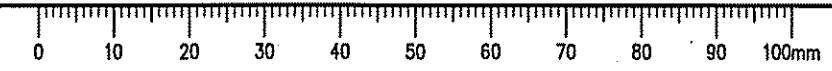
Drawn by/Dessiné par  
JJMC

PWOSC Project Manager/Administrateur de Projets TPSSC  
JULIAN HO

Regional Manager, Architectural and Engineering Services  
Gestionnaire régionale, Services d'architectural et de génie, TPSSC

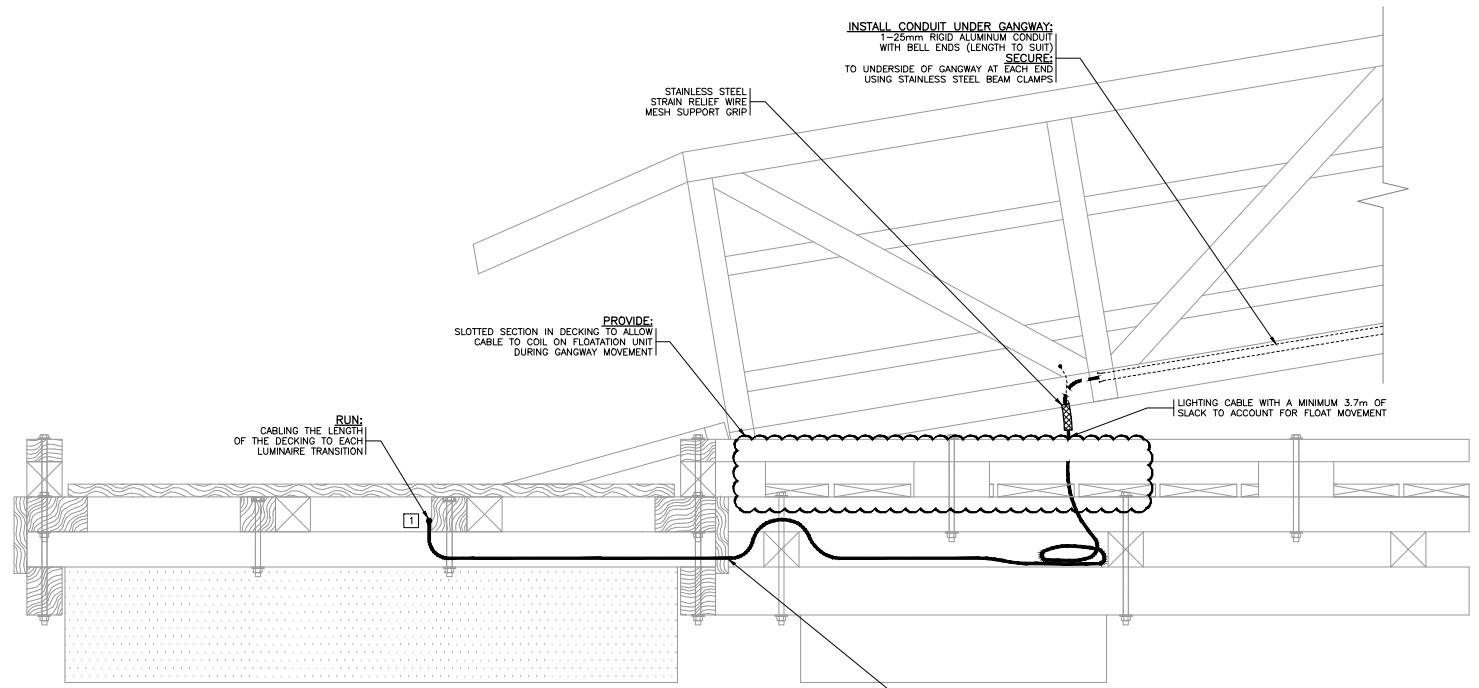
Drawing title/Titre du dessin  
**APPROACH REPAIRS**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.083172.001	11	2









**INSTALL CONDUIT UNDER GANGWAY:**  
 1-25mm RIGID ALUMINUM CONDUIT WITH BELL ENDS (LENGTH TO SUIT) SECURE TO UNDERSIDE OF GANGWAY AT EACH END USING STAINLESS STEEL BEAM CLAMPS

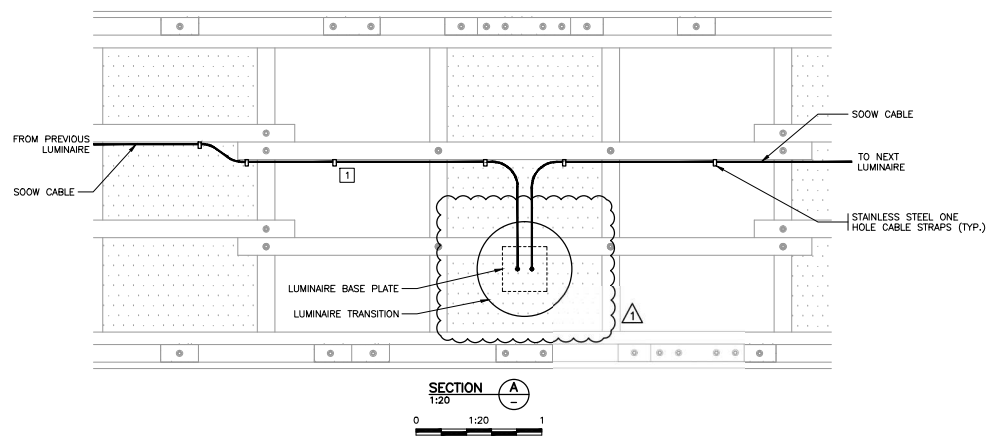
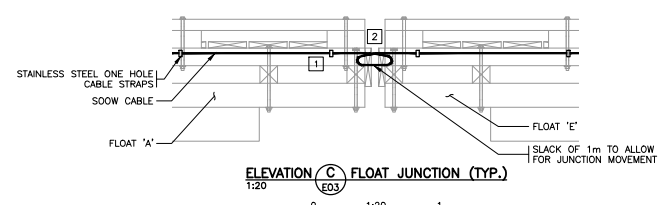
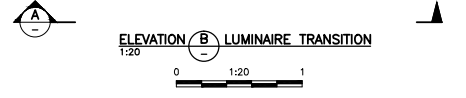
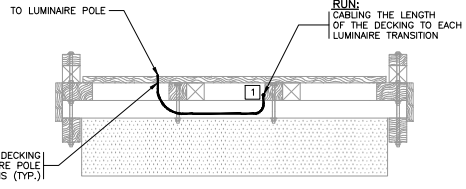
STAINLESS STEEL STRAIN RELIEF WIRE MESH SUPPORT GRIP

PROVIDE: SLOTTED SECTION IN DECKING TO ALLOW CABLE TO COIL ON FLOATATION UNIT DURING GANGWAY MOVEMENT

RUN: CABLING THE LENGTH OF THE DECKING TO EACH LUMINAIRE TRANSITION

LIGHTING CABLE WITH A MINIMUM 3.7m OF SLACK TO ACCOUNT FOR FLOAT MOVEMENT

BEFORE TREATMENT BORE HOLE THROUGH RUB BOARD TO ACCESS THE UNDERSIDE OF THE ADJOINING FLOAT



- NOTES:**
- 1 CABLE WILL BE SECURED TO FLOAT JOIST WITH STAINLESS STEEL ONE HOLE CABLE STRAPS EVERY 1.2m.
  - 2 BEFORE TREATMENT BORE HOLE THROUGH RUB BOARDS FOR CABLE TO PASS THROUGH END OF FLOAT. BORE HOLE LARGE ENOUGH SO THE CABLE DOES NOT BUNCH DURING FLOAT MOVEMENT. (COMMON FOR FLOAT A-B AND B-D CONNECTION ONLY)



**ALL EQUIPMENT IS PROPOSED UNLESS NOTED OTHERWISE**

1	ISSUED FOR ADOPTION	25/05/14
-	ISSUED FOR TENDER	25/05/15
Revisi/Revisions	Description/Description	Date/Date
CANADA BORDER SERVICES AGENCY		
Project file/Titre du projet		
SOUTH PENDER ISLAND, B.C. BEDWELL HARBOUR HARBOUR REDEVELOPMENT		
Consultant Signature Only		
Designed by/Concept par T.CSER/CSCS		
Drawn by/Dessiné par PBX		
Project Manager/Administrateur de Projets TP500 JULIAN HO		
Regional Manager, Architectural and Engineering Services Gestionnaire régional, Services d'architecture et de génie, TP500 PREETPAL PAUL, P.ENG		
Drawing title/Titre du dessin ELEVATIONS (2 OF 2)		
Project No./No. du projet R.083172.001	Sheet/Feuille E05 5 OF 6	Revision no./Le Révision 1

14-1218-0000 - Rev. 001 - 14/05/2017 - 14:24:39 - 4556/000001



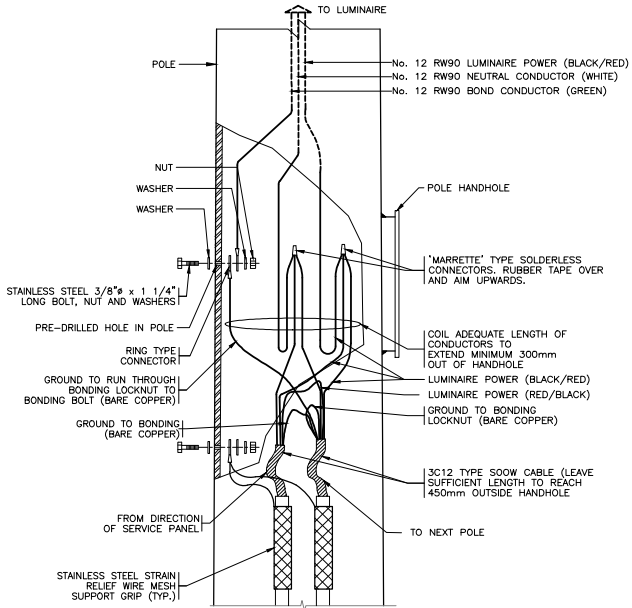
**PANEL 'A' SCHEDULE**

DESCRIPTION	kW	BKR.	CIRCUIT NO.	BKR.	kW	DESCRIPTION
SEARCH ROOM LIGHTING	-	-	1 → 2	-	-	
SEARCH ROOM LIGHTING	-	15A	3 → 4	-	-	
SEARCH ROOM LIGHTING	-	15A	5 → 6	-	-	
	-	15A	7 → 8	-	-	
OFFICE RECEPT.	-	15A	9 → 10	-	-	
HEATER	-	15A	11 → 12	15A	-	OUTSIDE OFFICE LIGHT
HEATER	-	15A	13 → 14	15A	-	OUTSIDE FLOAT LIGHTING
UNDER COUNTER RECEPT.	-	15A	15 → 16	15A	-	
UNDER COUNTER RECEPT.	-	15A	17 → 18	15A	-	
OFFICE RECEPT.	-	15A	19 → 20	15A	-	
OFFICE LIGHTING & OUTSIDE SW. REC.	-	15A	21 → 22	15A	-	
	-	15A	23 → 24	15A	-	SEARCH ROOM LIGHTING
<b>TOTAL</b>						<b>TOTAL</b>

MAINS: 100A  
MOUNTING: RECESSED  
MAIN BKR.: -  
FEEDER: -

VOLTS: 120/240V  
LOCATION: CBSA OFFICE  
FED FROM: UTILITY POLE  
ENTER AT: TOP

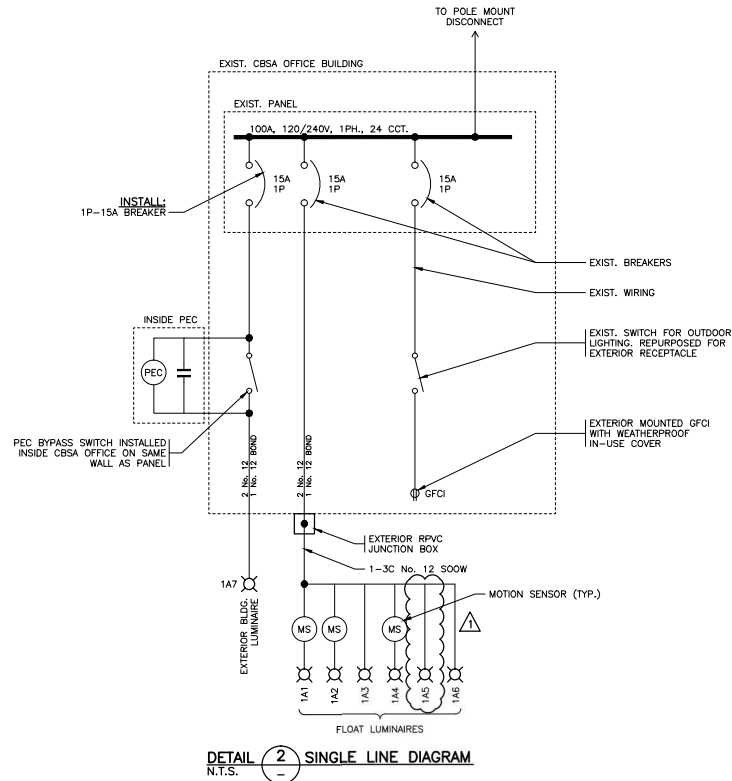
PROVIDE:  
TYPE-WRITTEN  
PANEL SCHEDULE  
AS SHOWN



DETAIL 1 LUMINAIRE WIRING IN POLE HANDHOLE USING  
N.T.S. E04 TYPE SOOW FLEXIBLE CABLE (SEE NOTE 1)

**NOTES:**

- TWO INCOMING CABLES SHOWN. THREE INCOMING CABLE ARRANGEMENT TO BE COMPLETED IN A SIMILAR CONFIGURATION.
- CIRCUIT BREAKERS IN LIGHT LINE TYPE ARE EXISTING TO REMAIN.
- CIRCUIT BREAKERS IN BOLD TO BE INSTALLED.
- PANEL SCHEDULE CIRCUITING TO BE CONFIRMED BY CONTRACTOR.



DETAIL 2 SINGLE LINE DIAGRAM  
N.T.S.



ALL EQUIPMENT IS PROPOSED  
UNLESS NOTED OTHERWISE

Rev./No.	Description/Description	Date/Date
1	ISSUED FOR APPROVAL	2017-03-14
2	ISSUED FOR TENDER	2017-03-23

**CANADA BORDER SERVICES AGENCY**

Project title/Titre du projet  
**SOUTH PENDER ISLAND, B.C. BEDWELL HARBOUR HARBOUR REDEVELOPMENT**

Concurrence Signature Only

Designed by/Conçue par  
T. CSER/SICS

Drawn by/Dessiné par  
PEX

PEXSC Project Manager/Administrateur de Projets TP500  
JULIAN HO

Engineer/Ingénieur  
PREETPAL PAUL, P. ENG.

Drawing title/Titre du dessin  
DETAILS, SINGLE LINE DIAGRAM  
AND PANEL SCHEDULE

Project No./No. du projet  
R.083172.001

Sheet/Feuille  
E06  
6 OF 6

Revision no./Le Révision  
no.  
1