

Schedule 'D'

STRATHCONA REGIONAL DISTRICT



CLIENT

ADDRESS / CONTACT INFO.

990 CEDAR ST, CAMPBELL RIVER, BC, V9W 7Z8

PROJECT NAME

2023 MARINE FACILITY REPAIRS

DESCRIPTION

REHABILITATION AND REPAIRS TO THE TIMBER TRESTLES AND FLOATS AT OWEN BAY, PORT NEVILLE AND SURGE NARROWS

McELHANNEY PROJECT

2211-71343-00

STATUS

ISSUED FOR 100% REVIEW



OWEN BAY



PORT NEVILLE



SURGE NARROWS



1211 Ryan Road
Courtenay BC
Canada V9N 3R6
T 250 338 5495

DRAWING LIST		REVISIONS						
		PA	PB	PC	0	1	2	3
S000	COVER SHEET							
S001	GENERAL NOTES & DESIGN CRITERIA							
S100	PORT NEVILLE GENERAL ARRANGEMENT AND PIER PLAN							
S101	PORT NEVILLE NEW FLOAT DESIGN							
S200	OWEN BAY GENERAL ARRANGEMENT AND PIER PLAN							
S201	OWEN BAY NEW FLOAT DESIGN							
S300	SURGE NARROWS GENERAL ARRANGEMENT AND PIER PLAN							
S301	SURGE NARROWS NEW FLOAT DESIGN							
S400	TYPICAL PIER SECTION AND REPAIR DETAILS							
S500	STRUCTURAL GANGWAY DETAILS							

GENERAL NOTES

1.0 GENERAL

- 1.1 VERIFY ALL DIMENSIONS PRIOR TO COMMENCING WORK.
- 1.2 ALL DIMENSIONS ARE METRIC UNLESS NOTED OTHERWISE.
- 1.3 ALL WORK SHALL CONFORM TO THE BC BUILDING CODE AND INDUSTRIAL HEALTH AND SAFETY REGULATIONS OF THE WORKERS COMPENSATION BOARD OF BRITISH COLUMBIA.
- 1.4 CLIMATIC DESIGN DATA (FROM BC BUILDING CODE)

LOCATION	SNOW LOAD (kPa)		WIND PRESSURES (kPa)	
	Ss	Sr	1/10	1/50
CAMPBELL RIVER	2.8	0.4	0.40	0.52
POWELL RIVER	1.7	0.4	0.39	0.51

- 1.5 THE INTENT OF THE TIMBER TRESTLE REPAIR WORK IS TO REINSTATEMENT THE CAPACITY OF THE ORIGINAL DESIGN MEMBERS. NO INCREASE IN STRUCTURAL CAPACITY HAS BEEN CONSIDERED.
- 1.6 WHERE CODES AND STANDARDS ARE REFERENCED, THE LATEST EDITION APPLIES.
- 1.7 SUBMIT DETAILS OF PROPOSED SCHEDULE AND WORK METHODS TO THE CONSULTANT PRIOR TO PROCEEDING WITH THE WORK.
- 1.8 DETAILED REQUIREMENTS FOR MATERIALS AND FABRICATION ARE DESCRIBED IN THE SPECIFICATIONS. FOR CONVENIENCE, CERTAIN EXTRACTS ARE REPRODUCED BELOW. IN THE EVENT OF CONFLICT, THE SPECIFICATIONS SHALL GOVERN.
- 1.9 MATERIALS AND TESTING HAVE BEEN SPECIFIED TO CONFORM TO THE CURRENT EDITIONS OF RELEVANT STANDARDS PUBLISHED BY THE FOLLOWING ORGANIZATIONS:
 - CANADIAN STANDARDS ASSOCIATION (CSA)
 - AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
- 1.10 UPON COMPLETION OF THE WORK REMOVE ALL DEBRIS AND SURPLUS MATERIALS FROM SITE. LEAVE THE WORK AREA IN A CLEAN AND NEAT CONDITION TO THE SATISFACTION OF THE ENGINEER.
- 1.11 CONTRACTOR TO NOTIFY ENGINEER AND ESTABLISH INSPECTION SCHEDULE PRIOR TO INSTALLATION OF PILES.
- 1.12 NO GEOTECHNICAL ASSESSMENT HAS BEEN COMPLETED FOR THE SITES SHOWN. CONTRACTOR TO INSTALL ALL PILES USING A SUITABLE SIZED VIBRATORY HAMMER AND CONFIRMING PILE REFUSAL USING A DROP HAMMER WITH A MINIMUM 25,000 FOOT POUNDS OF ENERGY WITH A MAXIMUM OF (5) BLOWS PER INCH OF PILE PENETRATION. MINIMUM PILE EMBEDMENT TO BE 12m UNLESS APPROVED BY THE ENGINEER.
- 1.13 SRD HAS NO OWNERSHIP OR LEASE OF LANDS AROUND THE WHARVES OR PIERS AT OWEN BAY AND SURGE NARROWS. SRD HAS A SMALL RIGHT OF WAY AROUND THE ABUTMENT AT PORT NEVILLE. IF THE CONTRACTOR INTENDS TO USE THE LAND FOR A LAY DOWN AREA OR OTHERWISE DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMISSION FROM THE LAND OWNER'S.
- 1.14 CONTRACTOR MUST ADHERE TO THE ENVIRONMENTAL MANAGEMENT PLAN.

2.0 DEMOLITION

- 2.1 TAKE ALL NECESSARY PRECAUTIONS TO CONTAIN THE DEMOLITION WITHIN THE LIMITS DESIGNATED. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO EXISTING STRUCTURES.
- 2.2 ANY DAMAGE INCURRED IN THE EXECUTION OF THIS CONTRACT TO ANY PART OF THE PROPERTY OR STRUCTURE NOT SPECIFICALLY DESIGNATED FOR DEMOLITION SHALL BE REPAIRED, REPLACED, AND/OR RECONSTRUCTED BY THE CONTRACTOR AT THEIR EXPENSE TO ITS ORIGINAL CONDITION.
- 2.3 REMOVE AND DISPOSE OF ALL DEMOLITION MATERIAL OFF SITE IN ACCORDANCE WITH ALL MUNICIPAL, PROVINCIAL, AND FEDERAL REQUIREMENTS.

3.0 STEEL WORK

- 3.1 ROLLED STEEL SECTIONS, STEEL BARS AND PLATES TO CAN/CSA G40.21, GRADE 300W UNLESS NOTED OTHERWISE.
- 3.2 STEEL PILES SHALL BE ASTM A252 GRADE 2 PIPES. PILES ARE NOT TO BE SPLICED WITHOUT PRIOR APPROVAL BY THE ENGINEER.
- 3.3 SHOP PAINT ALL STEEL COMPONENTS USING COATING SYSTEM APPROVED BY THE ENGINEER.
- 3.4 BOLTS, NUTS, AND WASHERS SHALL CONFORM TO ASTM F3125 GRADE A307.
- 3.5 ALL MISCELLANEOUS METAL AND FASTENERS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH CSA STANDARD G164 UNLESS NOTED OTHERWISE.
- 3.6 WELDING SHALL BE IN ACCORDANCE WITH CSA W59 AND W47.1.
- 3.7 ALL RE-USED HARDWARE SHALL BE INSPECTED AND APPROVED BY THE CONSULTANT.

4.0 TIMBER

- 4.1 ALL TIMBER WORK SHALL CONFORM TO CSA STANDARD 086.
- 4.2 ALL SAWN TIMBER SHALL BE COAST DOUGLAS FIR, NO. 1 STRUCTURAL GRADE OR BETTER, AND UNLESS SPECIFIED OTHERWISE, SHALL BE PROPERLY AIR-DRIED AND SEASONED, CONTAINING NOT MORE THAN 20% MOISTURE.
- 4.3 DECKING AND GUARDRAIL TIMBERS SHALL BE GIVEN AN ACZA SALT PRESERVATIVE TREATMENT TO A NET RETENTION OF 6.4 kg PER CUBIC METER IN ACCORDANCE WITH CSA 080.
- 4.4 TIMBER SIZE AND DRESSINGS SHALL BE IDENTICAL TO EXISTING, UNLESS NOTED OTHERWISE. VERIFY PRIOR TO PROCURING.
- 4.5 THE EXACT LENGTH OF EACH TIMBER TO BE REPLACED SHALL BE MEASURED BY THE CONTRACTOR AND SUBMITTED TO THE CONSULTANT FOR APPROVAL PRIOR TO PROCURING.
- 4.6 LENGTH OF CORBELS SHOWN ON THE DRAWINGS ARE NOMINAL. CONTRACTOR SHALL VERIFY THAT THE LENGTH SHOWN CAN BE INSTALLED OR ADJUST THE LENGTH REQUIRED TO SUIT ADJACENT PILES. SUBMIT FINAL LENGTHS TO THE CONSULTANT FOR REVIEW PRIOR TO PROCURING.
- 4.7 FIELD CUTS TO NEW TIMBERS WILL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.
- 4.8 AFTER CUT-OFF, THE TOPS OF ALL TIMBER PILES SHALL BE TREATED WITH 2 COATS OF COPPER II NAPHTHENATE AT 6mm THICK. IN ADDITION, THE TOPS OF ALL PILES SHALL BE COVERED WITH A SHEET OF 22 GAUGE ANNEALED CORROSION RESISTANT ALUMINUM CUT 6" LARGER THAN THE DIAMETER OF THE PILE TOP. THE OVERHANGING EDGES SHALL BE CRIMPED AND TURNED DOWN AND SECURED TO THE PILE WITH 8 ALUMINUM ROOFING NAILS. THE SHEET SHALL NOT BE CUT TO FACILITATE FITTING.

5.0 GANGWAY

- 5.1 TYPICAL DFO-STYLE STEEL GANGWAY SHOWN IN DWG S500 FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR DETAILED DESIGN (LIVE LOAD 2.4 kPa PER DFO SCH GUIDELINES), SUPPLY AND CONSTRUCTION. SUBMIT SEALED SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT OF MATERIALS FOR FABRICATION.
- 5.2 CONTRACTOR IS TO PROVIDE WEARING PROVISIONS AND ATTACHMENTS TO PIER DESIGN FOR ENGINEERS APPROVAL PRIOR TO PROCUREMENT OF MATERIALS FOR FABRICATION.

GENERAL NOTES (CONT.)

6.0 FLOAT DESIGN REQUIREMENTS

- 6.1 THE FLOAT SHALL BE DESIGNED TO MEET THE REQUIREMENTS OF CANADIAN CODES FOR THE APPLICABLE MATERIAL, AS WELL AS THE REQUIREMENTS SHOWN ON THE DRAWINGS AND OTHER CONTRACT DOCUMENTS. THESE CODES MAY INCLUDE:
 - a. CSA A23.3 DESIGN OF CONCRETE STRUCTURES
 - b. CSA O86 ENGINEERING DESIGN IN WOOD
 - c. CSA S16 DESIGN OF STEEL STRUCTURES
 - d. CSA S157 STRENGTH DESIGN IN ALUMINUM
- 6.2 THE BRITISH STANDARD (BS 6349) MAY BE USED AS A MARINE CODE, AS APPLICABLE WHERE THE CANADIAN CODES DO NOT PROVIDE MARINE GUIDANCE. ALTERNATIVELY, REFERENCE CAN BE MADE TO OTHER INTERNATIONAL CODES, STANDARDS OR GUIDELINES, SUBJECT TO THE ENGINEERS APPROVAL.
- 6.3 THE DRAWINGS INDICATE THE GENERAL INTENT OF THE FLOAT. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE DETAILED DESIGN, CONSTRUCTION, INSTALLATION AND QUALITY CONTROL.
- 6.4 THE SURFACE OF THE FLOATS SHALL BE NON-SLIP FRP MINI MESH GRATING OR EQUIVALENT, APPROVED IN WRITING BY THE ENGINEER.
- 6.5 THE MINIMUM SERVICE LIFE OF THESE FLOATS SHALL BE 25 YEARS.
- 6.6 THE CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN BRITISH COLUMBIA. THESE DRAWINGS SHALL IDENTIFY DESIGN REQUIREMENTS, DESIGN CODES USED, LAYOUT, MEMBER SIZES, CONNECTIONS, DIMENSIONS, MATERIALS AND FINISHES.

7.0 FLOAT PERFORMANCE CRITERIA

- 7.1 THE FLOAT SHALL SIT LEVEL WITH A MAXIMUM CROSS SLOPE OF 2%, AND A MINIMUM ACCEPTABLE FREEBOARD OF 400mm.
- 7.2 A POSITIVE METACENTRIC HEIGHT IS REQUIRED FOR ALL EXPECTED LOADING CONDITIONS AND ANGLES OF TILT.
- 7.3 FLOATS SHALL BE DESIGNED TO CARRY A UNIFORMLY DISTRIBUTED LOAD OF 3.0 kPa OVER THE WHOLE OR ANY PART OF THE DECK. STABILITY SHALL BE CHECKED AND VERIFIED FOR THIS LOADING CONDITION INCLUDING THE SUBMERGED ELEMENTS, MAXIMUM ANGLE OF HEEL SHALL NOT EXCEED 6 DEGREES.
- 7.4 FLOATS SHALL BE DESIGNED TO CARRY, AT ANY LOCATION ON THE FLOAT DECK, A CONCENTRATED LOAD OF 1.8 kN PLACED AT ANY LOCATION, NO CLOSER THAN 300mm TO ANY EDGE. STABILITY SHALL BE CHECKED AND VERIFIED FOR THIS LOADING CONDITION INCLUDING THE SUBMERGED ELEMENT, MAXIMUM ANGLE OF HEEL SHALL NOT EXCEED 6 DEGREES.

8.0 FLOAT APPURTENANCES AND HARDWARE

- 8.1 FENDERS OR RUB STRIPS SHALL BE PROVIDED AROUND THE PERIMETER OF THE FLOAT. THESE CONTINUOUS ITEMS SHALL HAVE HIGH RESISTANCE TO ENVIRONMENTAL ELEMENTS, SUCH AS UV LIGHT, AND MARINE GROWTH.
- 8.2 FIXED SAFETY LADDERS SUFFICIENT FOR EGRESS FROM THE WATER SHALL BE PROVIDED, SPACED AT INTERVALS LESS THAN 30M. THE LADDERS SHALL EXTEND A MINIMUM OF 1M BELOW THE WATER SURFACE. CORROSION SHALL BE CONSIDERED IN THE MATERIAL SELECTED AND FABRICATION DETAILS OF THE LADDER.
- 8.3 FLOATS SHALL PROVIDE MOORING WELL IN THE LOCATIONS PROVIDED FOR THE MOORING SYSTEM.

PC	2022-12-02	ISSUED FOR 100% REVIEW	GH
PB	2022-11-11	ISSUED FOR 90% REVIEW	GH
PA	2022-08-25	ISSUED FOR CONCEPT	MF
Rev	Date	Description	App'd

THIS DRAWING AND DESIGN IS THE PROPERTY OF MCELHANNNEY AND SHALL NOT BE USED, REUSED OR REPRODUCED WITHOUT THE CONSENT OF MCELHANNNEY. MCELHANNNEY WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN.


THIS DRAWING AND DESIGN HAS BEEN PREPARED FOR THE CLIENT IDENTIFIED, TO MEET THE STANDARDS AND REQUIREMENTS OF THE APPLICABLE PUBLIC AGENCIES AT THE TIME OF PREPARATION. MCELHANNNEY, ITS EMPLOYEES, SUBCONSULTANTS AND AGENTS WILL NOT BE LIABLE FOR ANY LOSSES OR OTHER CONSEQUENCES RESULTING FROM THE USE OR RELIANCE UPON, OR ANY CHANGES MADE TO, THIS DRAWING, BY ANY THIRD PARTY, INCLUDING CONTRACTORS, SUPPLIERS, CONSULTANTS AND STAKEHOLDERS, OR THEIR EMPLOYEES OR AGENTS, WITHOUT MCELHANNNEY'S PRIOR WRITTEN CONSENT.

THIS DRAWING IS NOT INTENDED FOR CONSTRUCTION PURPOSES UNTIL NOTED ISSUED FOR CONSTRUCTION. ALL MEASUREMENTS SHALL BE CHECKED BY CONTRACTOR ON SITE AND VERIFIED PRIOR TO THE INITIATION OF CONSTRUCTION.

CLIENT:



990 CEDAR ST, CAMPBELL RIVER, BC, V9W 7Z8



1211 Ryan Road
Courtenay BC
Canada V9N 3R6
T 250 338 5495

Drawn:	Drawing Check:	Designed:	Design Check:	Approver:
JTH	MF	HH	MF	GH

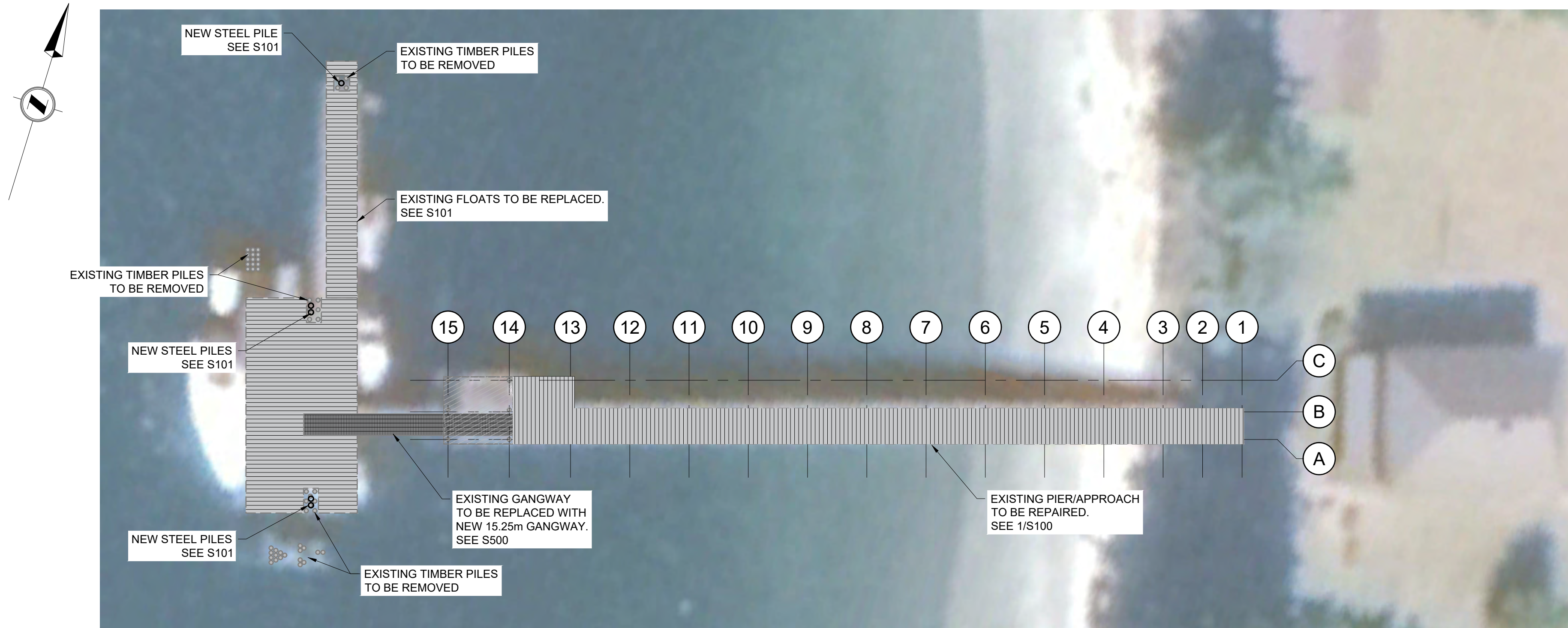
PRELIMINARY
NOT FOR
CONSTRUCTION

STRATHCONA REGIONAL DISTRICT

GENERAL NOTES & DESIGN CRITERIA

THIS DRAWING HAS NOT BEEN APPROVED AND MAY CONTAIN ERRORS AND OMISSIONS

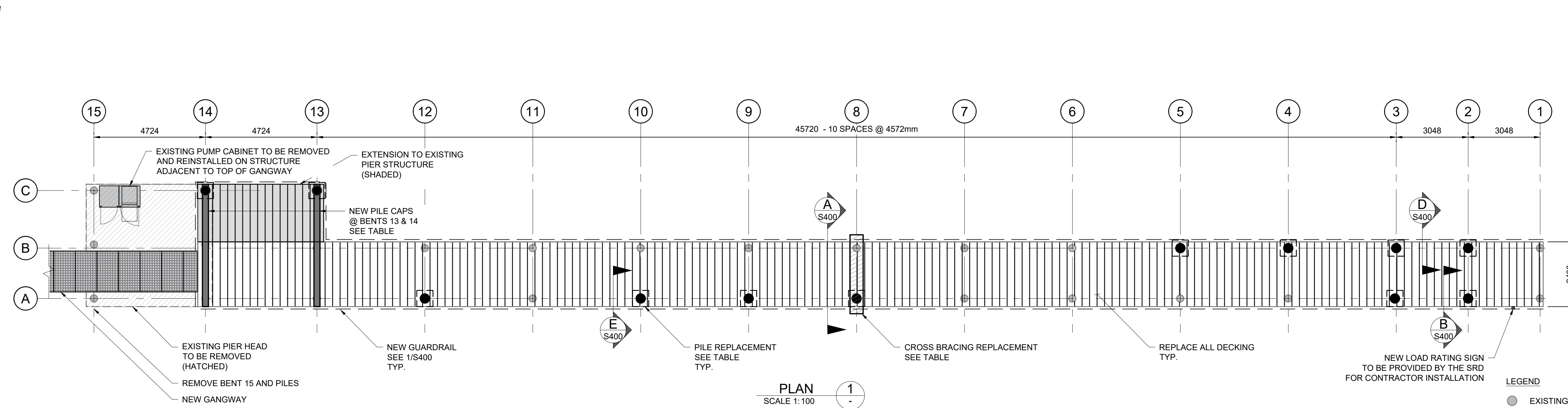
Drawing No.	S001
Project No.	2211-71343
Rev.	PC



PLAN
SCALE 1:250



KEY PLAN
NTS



PLAN
SCALE 1:100

PILE REPAIRS	
PILE NO.	REPAIRS
2A	REPLACE PILE
2B	FRESH HEAD AND INSTALL NEW SINGLE CORBEL
3A	FRESH HEAD AND INSTALL NEW SINGLE CORBEL
3B	REPLACE PILE
4B	FRESH HEAD AND INSTALL NEW SINGLE CORBEL
5B	REPLACE PILE
8A	INSTALL GALVANIZED STEEL PILE CLAMPS
9A	REPLACE PILE
10A	INSTALL GALVANIZED STEEL PILE CLAMPS
12A	REPLACE PILE
13-15	MODIFICATIONS TO TRESTLE. SEE PLAN

NOTE:
 1. CONTRACTOR TO PROVIDE 3 ADDITIONAL PILES ON SITE IF NEEDED.
 2. CONDITIONS OF PILES AT BENT 13 AND 14 TO BE INSPECTED PRIOR TO INSTALLATION OF NEW PILE CAPS, AND REPLACED IF REQUIRED.

PILE CAP REPAIRS	
BENT NO.	REPAIRS
13	REPLACE PILE CAP
14	REPLACE PILE CAP

CROSS BRACE REPAIRS	
BENT NO.	REPAIRS
8	REPLACE CROSS BRACE

LEGEND

- EXISTING TIMBER PILE
- NEW TIMBER PILE
- ▬ NEW TIMBER PILE CAP
- ▨ REPLACE TIMBER CROSS BRACING
- NEW GUARDRAIL

- NOTES:
 1. FOR GENERAL NOTES SEE S100.
 2. SEE SHEET S400 FOR ALL TIMBER REPAIR DETAILS FOR PILES, PILE CAPS, AND CROSS BRACING.

Rev	Date	Description	App'd
PC	2022-12-02	ISSUED FOR 100% REVIEW	GH
PB	2022-11-11	ISSUED FOR 90% REVIEW	GH
PA	2022-08-25	ISSUED FOR CONCEPT	MF

THIS DRAWING AND DESIGN IS THE PROPERTY OF MCELHANNY AND SHALL NOT BE USED, REUSED OR REPRODUCED WITHOUT THE CONSENT OF MCELHANNY. MCELHANNY WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN.

THIS DRAWING AND DESIGN HAS BEEN PREPARED FOR THE CLIENT IDENTIFIED, TO MEET THE STANDARDS AND REQUIREMENTS OF THE APPLICABLE PUBLIC AGENCIES AT THE TIME OF PREPARATION. MCELHANNY, ITS EMPLOYEES, SUBCONSULTANTS AND AGENTS WILL NOT BE LIABLE FOR ANY LOSSES OR OTHER CONSEQUENCES RESULTING FROM THE USE OR RELIANCE UPON, OR ANY CHANGES MADE TO, THIS DRAWING, BY ANY THIRD PARTY, INCLUDING CONTRACTORS, SUPPLIERS, CONSULTANTS AND STAKEHOLDERS, OR THEIR EMPLOYEES OR AGENTS, WITHOUT MCELHANNY'S PRIOR WRITTEN CONSENT.

THIS DRAWING IS NOT INTENDED FOR CONSTRUCTION PURPOSES UNTIL NOTED ISSUED FOR CONSTRUCTION. ALL MEASUREMENTS SHALL BE CHECKED BY CONTRACTOR ON SITE AND VERIFIED PRIOR TO THE INITIATION OF CONSTRUCTION.

APP'D: [Signature]

COPYRIGHT MCELHANNY CONSULTING SERVICES LTD.

CLIENT:

990 CEDAR ST. CAMPBELL RIVER, BC, V9W 7Z8

McElhanney

1211 Ryan Road
 Courtenay BC
 Canada V9N 3R6
 T 250 338 5495

Drawn: JTH
 Drawing Check: MF
 Designed: HH
 Design Check: MF
 Approver: GH

PRELIMINARY
 NOT FOR
 CONSTRUCTION

THIS DRAWING HAS NOT BEEN APPROVED AND MAY CONTAIN ERRORS AND OMISSIONS

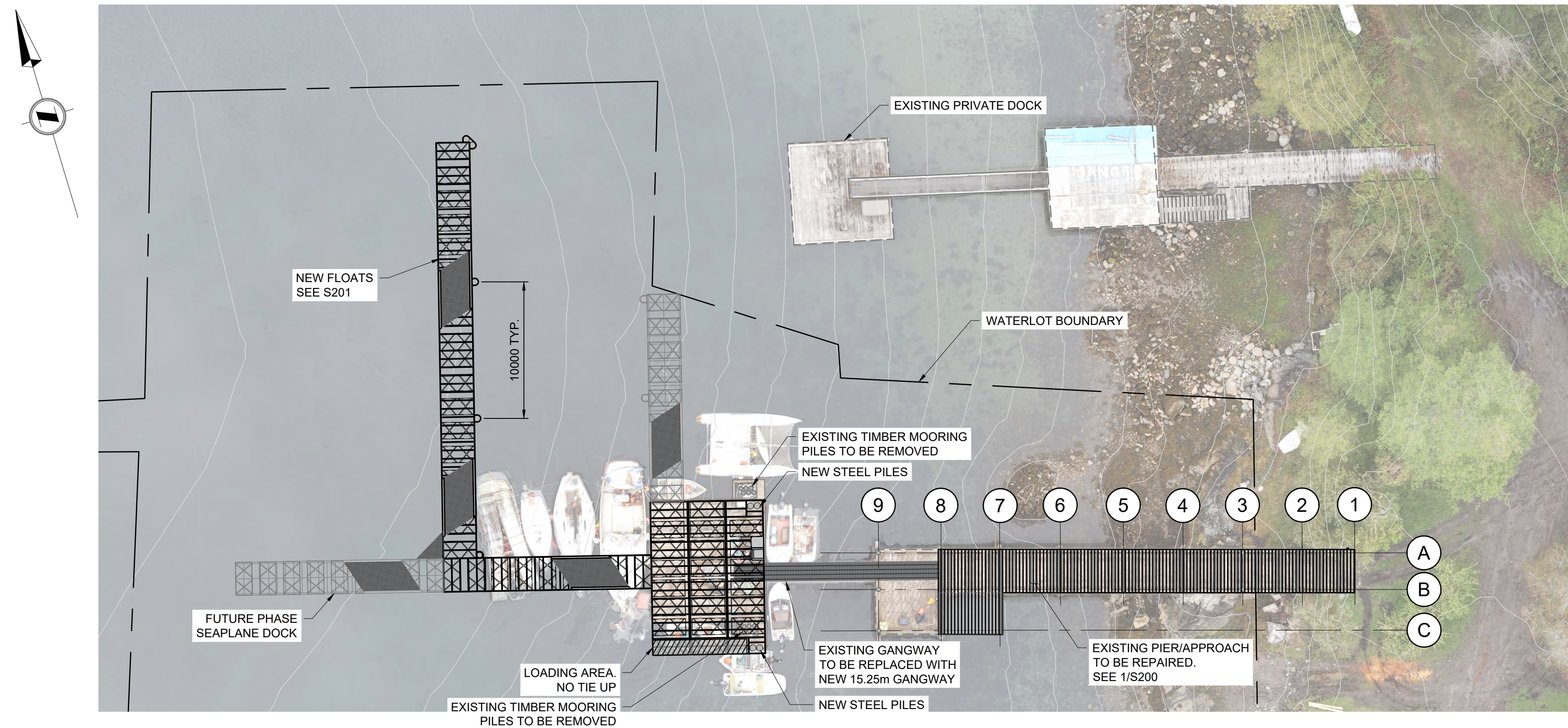
STRATHCONA REGIONAL DISTRICT

PORT NEVILLE
 GENERAL ARRANGEMENT
 AND PIER PLAN

Drawing No. S100

Project No. 2211-71343

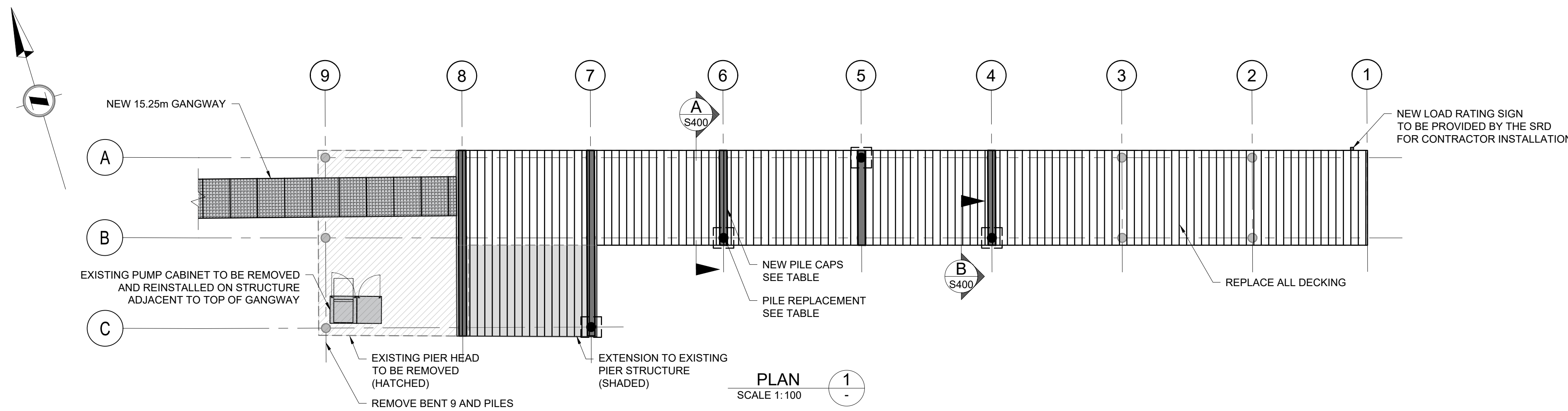
Rev. PC



PLAN
SCALE 1:250



KEY PLAN
NTS



PLAN
SCALE 1:100

LEGEND

- EXISTING TIMBER PILE
- NEW TIMBER PILE
- NEW TIMBER PILE CAP

PILE CAP REPAIRS	
BENT NO.	REPAIRS
4	REPLACE PILE CAP
5	REPLACE PILE CAP
6	REPLACE PILE CAP
7	REPLACE PILE CAP
8	REPLACE PILE CAP

PILE REPAIRS	
PILE NO.	REPAIRS
4B	REPLACE PILE
5A	REPLACE PILE
6B	REPLACE PILE
7C	NEW PILE

- NOTES:
- FOR GENERAL NOTES SEE S100
 - SEE SHEET S400 FOR ALL TIMBER REPAIR DETAILS FOR PILES, PILE CAPS, AND CROSS-BRACING

PC	2022-12-02	ISSUED FOR 100% REVIEW	GH
PB	2022-11-11	ISSUED FOR 90% REVIEW	GH
PA	2022-08-25	ISSUED FOR CONCEPT	MF
Rev	Date	Description	App'd

CLIENT:

990 CEDAR ST. CAMPBELL RIVER, BC, V9W 7Z8

1211 Ryan Road
Courtenay BC
Canada V9N 3R6
T 250 338 5495

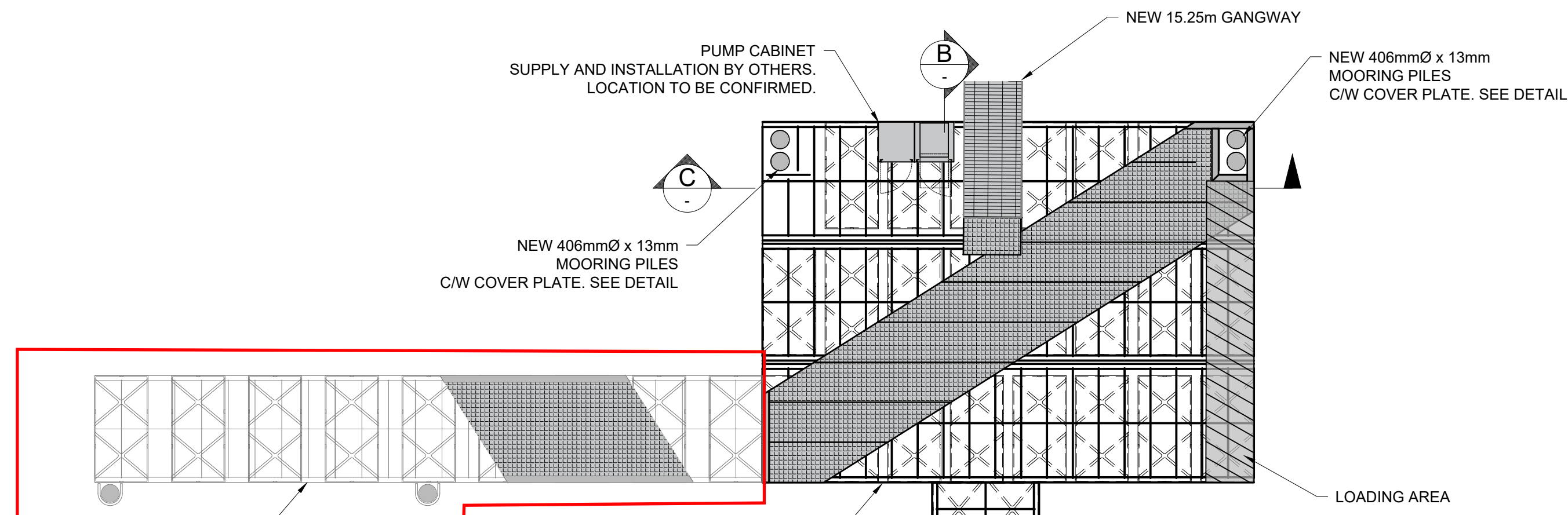
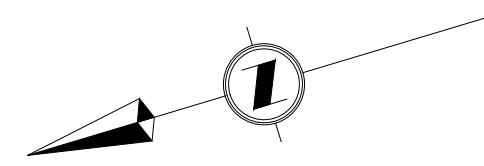
Drawn: JTH
Drawing Check: MF
Designed: HH
Design Check: MF
Approver: GH

PRELIMINARY
NOT FOR
CONSTRUCTION

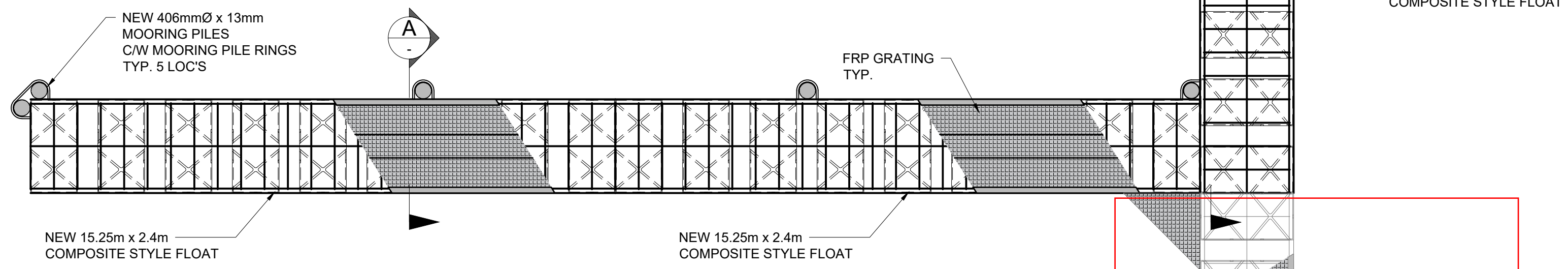
STRATHCONA REGIONAL DISTRICT

OWEN BAY
GENERAL ARRANGEMENT
AND PIER PLAN

Drawing No.	S200
Project No.	2211-71343
Rev.	PC

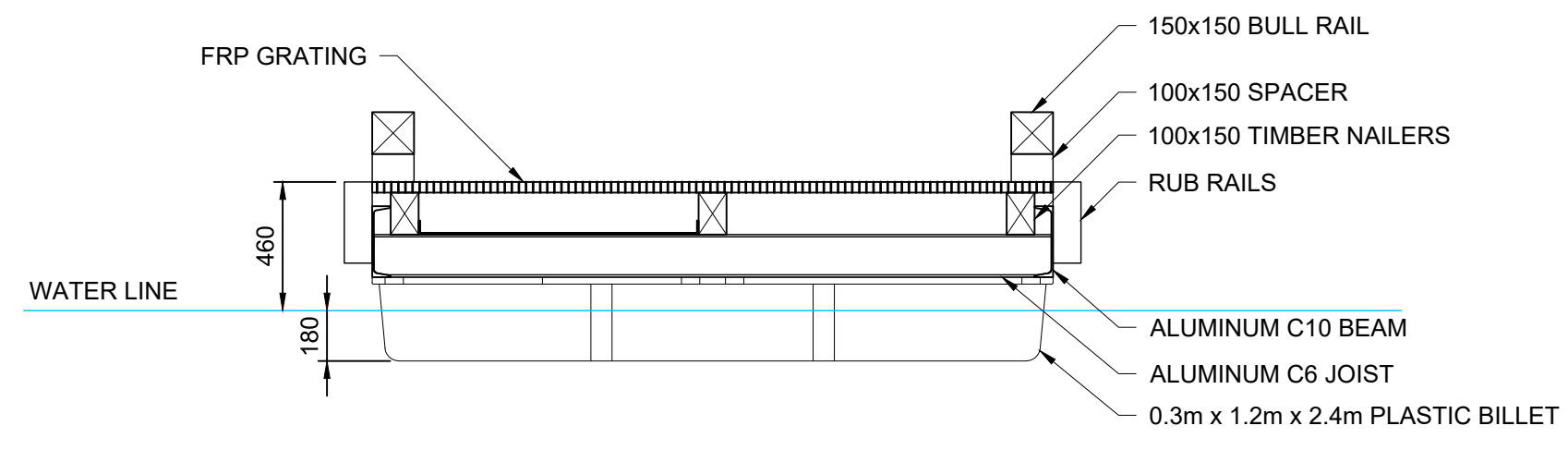


NOT INCLUDED IN CURRENT SCOPE. SHOWN CONCEPTUALLY TO DEMONSTRATE FUTURE EXTENSION COULD BE ACCOMMODATED

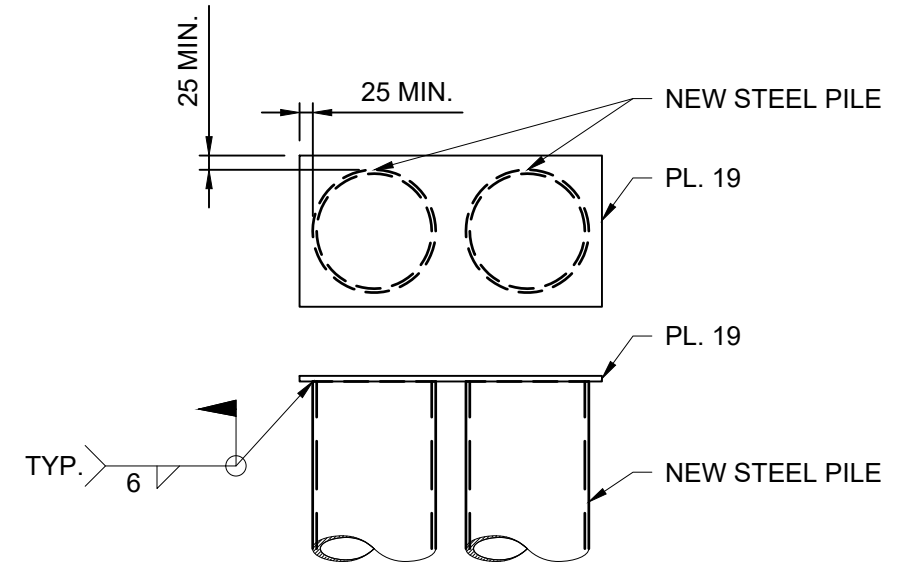


PLAN
SCALE 1:100

NOTE:
COMPOSITE FLOAT ARRANGEMENT SHOWN IS INDICATIVE ONLY. CONTRACTOR IS RESPONSIBLE FOR THE FINAL DESIGN OF THE FLOATING DOCKS AND WILL PROVIDE SEALED SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO MATERIAL PROCUREMENT AND FABRICATION

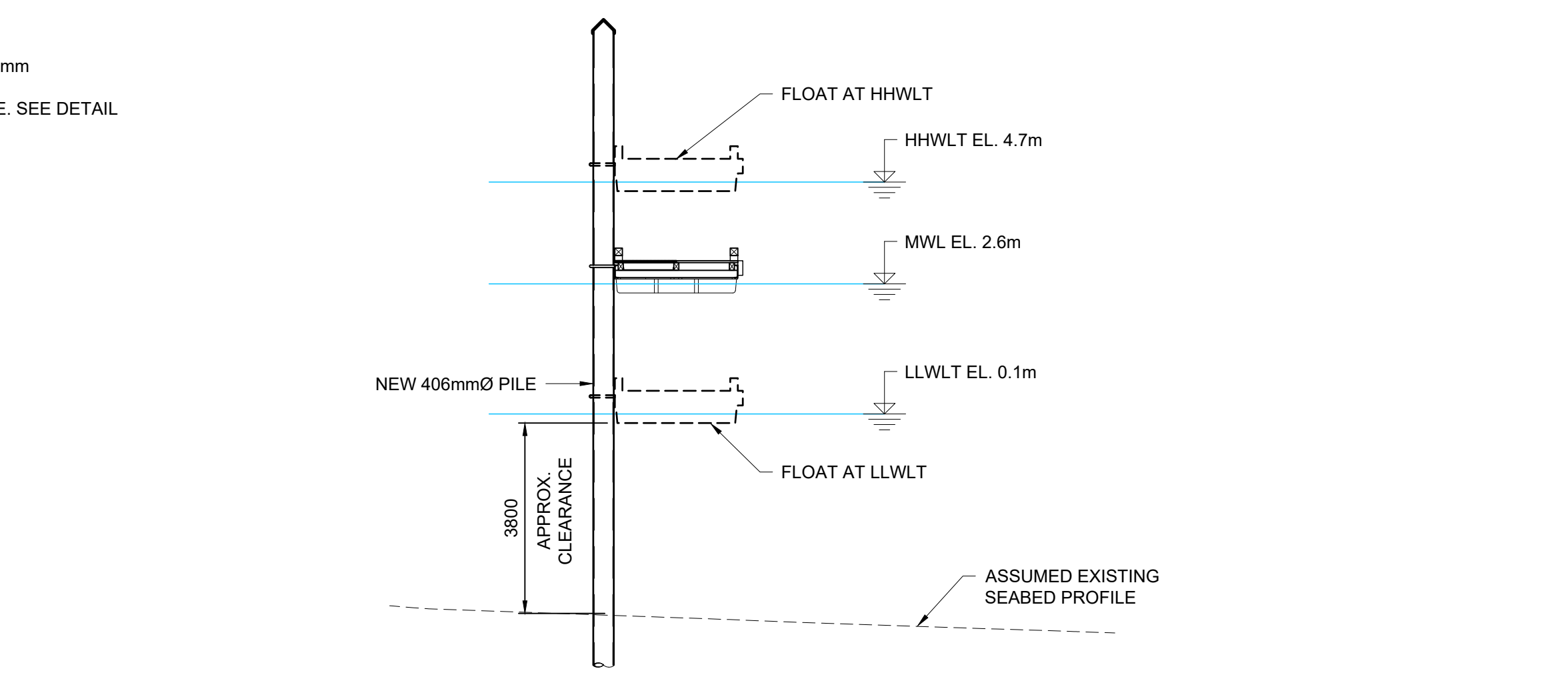


TYP. FLOAT SECTION
SCALE 1:25

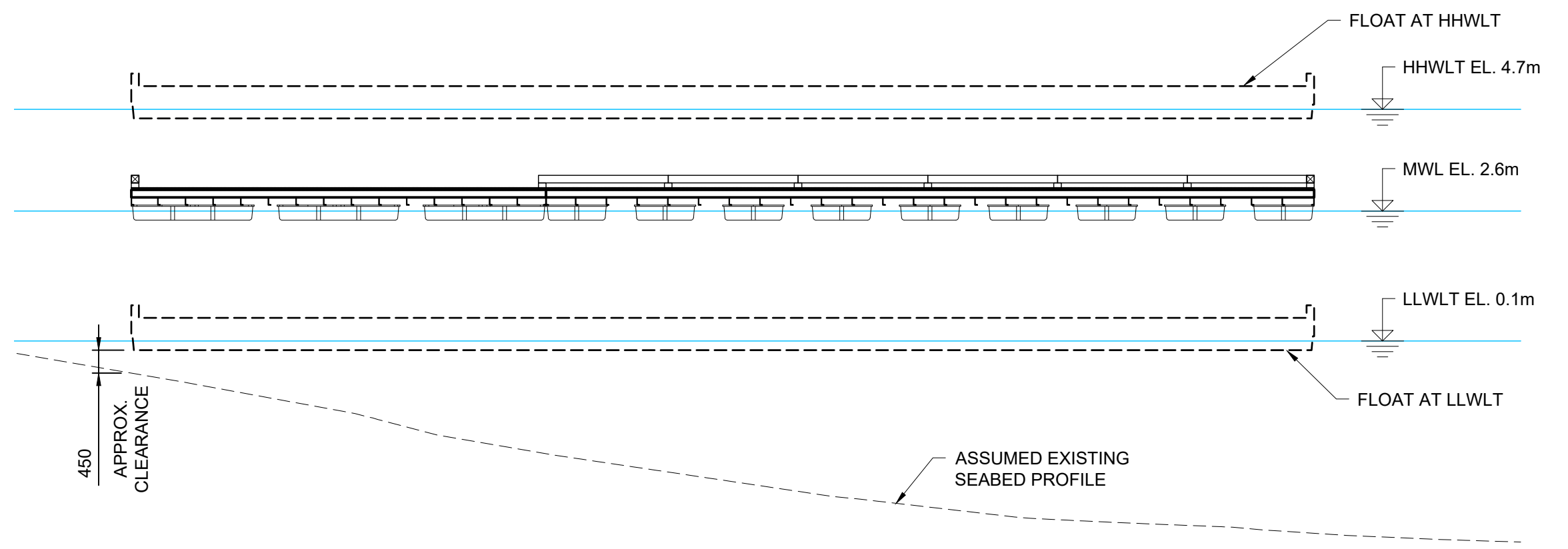


COVER PLATE DETAIL
SCALE 1:25

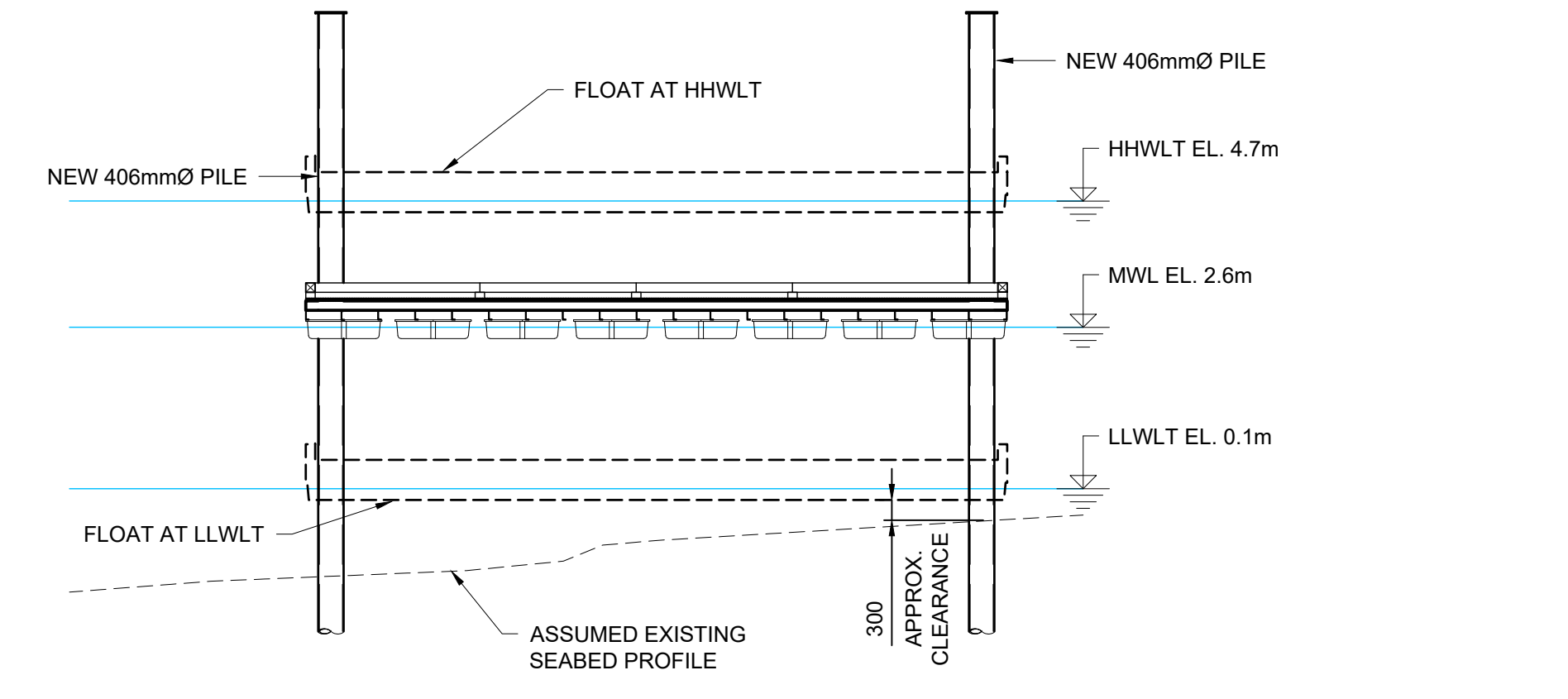
NOT INCLUDED IN CURRENT SCOPE. SHOWN CONCEPTUALLY TO DEMONSTRATE FUTURE EXTENSION COULD BE ACCOMMODATED



SECTION A
SCALE 1:100



SECTION B
SCALE 1:100



SECTION C
SCALE 1:100

NOTES:
1. FOR GENERAL NOTES SEE S100

PC	2022-12-02	ISSUED FOR 100% REVIEW	GH
PB	2022-11-11	ISSUED FOR 90% REVIEW	GH
PA	2022-08-25	ISSUED FOR CONCEPT	MF
Rev	Date	Description	App'd

THIS DRAWING AND DESIGN IS THE PROPERTY OF MCELHANEY AND SHALL NOT BE USED, REUSED OR REPRODUCED WITHOUT THE CONSENT OF MCELHANEY. MCELHANEY WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN.

THIS DRAWING AND DESIGN HAS BEEN PREPARED FOR THE CLIENT IDENTIFIED, TO MEET THE STANDARDS AND REQUIREMENTS OF THE APPLICABLE PUBLIC AGENCIES AT THE TIME OF PREPARATION. MCELHANEY, ITS EMPLOYEES, SUBCONSULTANTS AND AGENTS WILL NOT BE LIABLE FOR ANY LOSSES OR OTHER CONSEQUENCES RESULTING FROM THE USE OR RELIANCE UPON, OR ANY CHANGES MADE TO, THIS DRAWING, BY ANY THIRD PARTY, INCLUDING CONTRACTORS, SUPPLIERS, CONSULTANTS AND STAKEHOLDERS, OR THEIR EMPLOYEES OR AGENTS, WITHOUT MCELHANEY'S PRIOR WRITTEN CONSENT.

THIS DRAWING IS NOT INTENDED FOR CONSTRUCTION PURPOSES UNTIL NOTED ISSUED FOR CONSTRUCTION. ALL MEASUREMENTS SHALL BE CHECKED BY CONTRACTOR ON SITE AND VERIFIED PRIOR TO THE INITIATION OF CONSTRUCTION.

COPYRIGHT MCELHANEY CONSULTING SERVICES LTD.

CLIENT:

990 CEDAR ST. CAMPBELL RIVER, BC, V9W 7Z8

1211 Ryan Road
Courtenay BC
Canada V9N 3R6
T 250 338 5495

Drawn: JTH
Drawing Check: MF
Designed: HH
Design Check: MF
Approver: GH

PRELIMINARY
NOT FOR
CONSTRUCTION

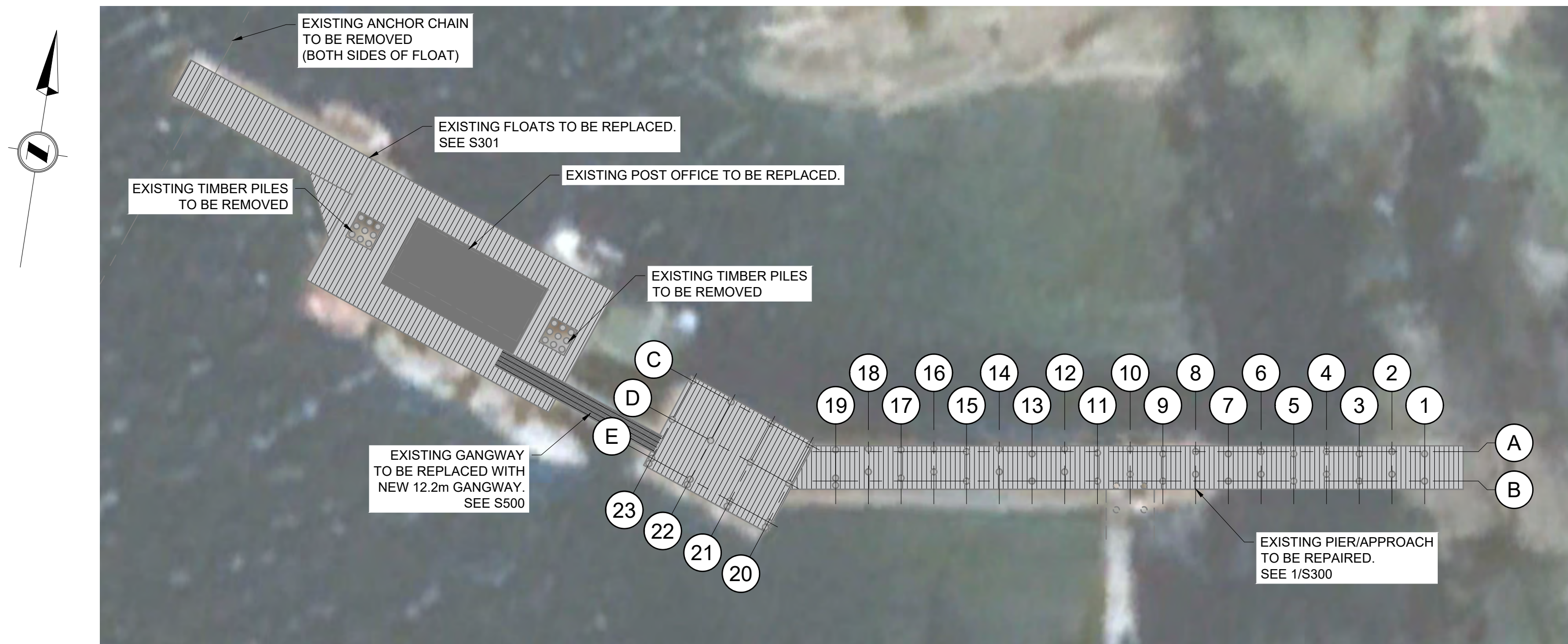
STRATHCONA REGIONAL DISTRICT

OWEN BAY
NEW FLOAT DESIGN

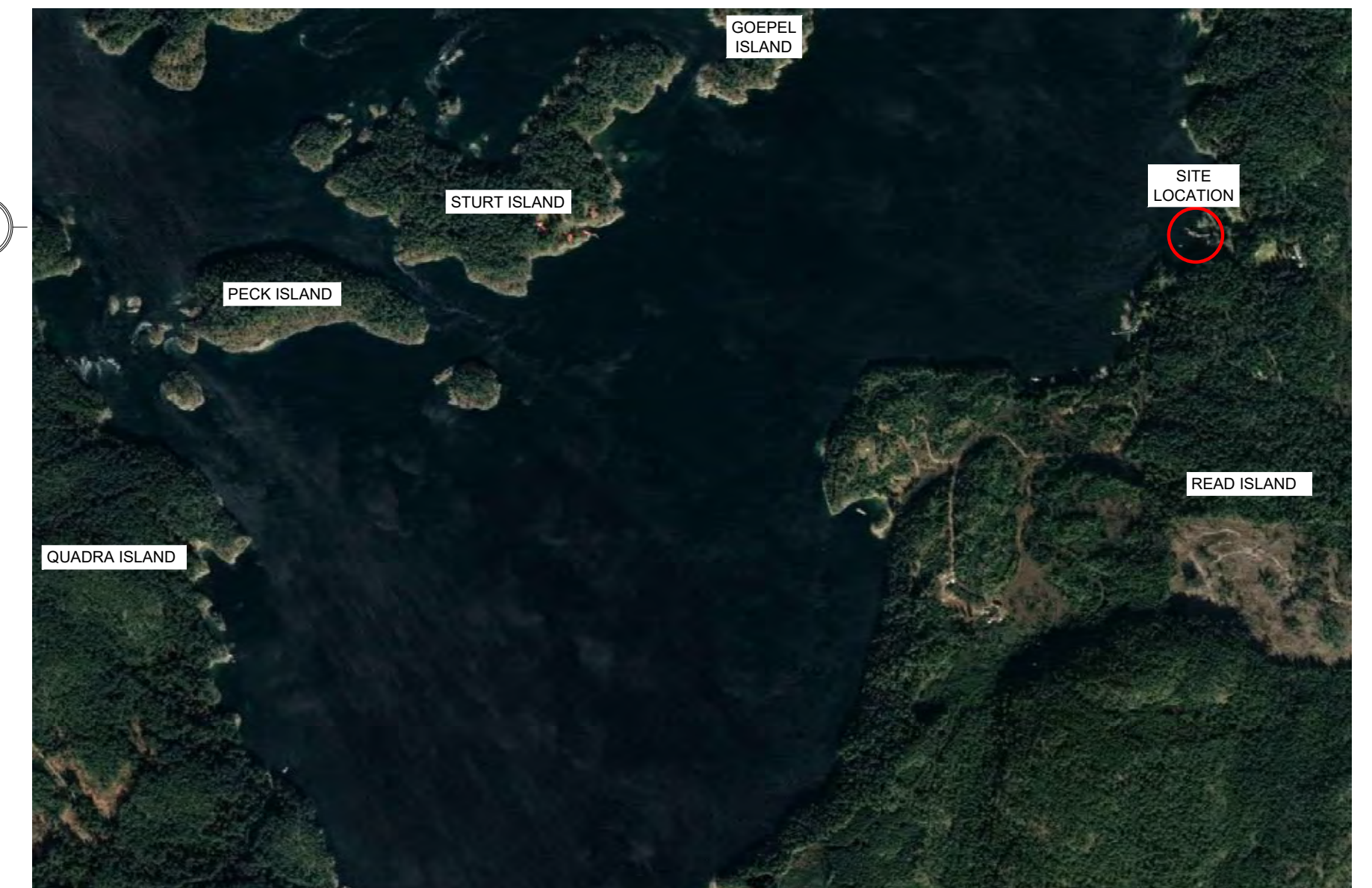
Drawing No.
S201

Project No.
2211-71343

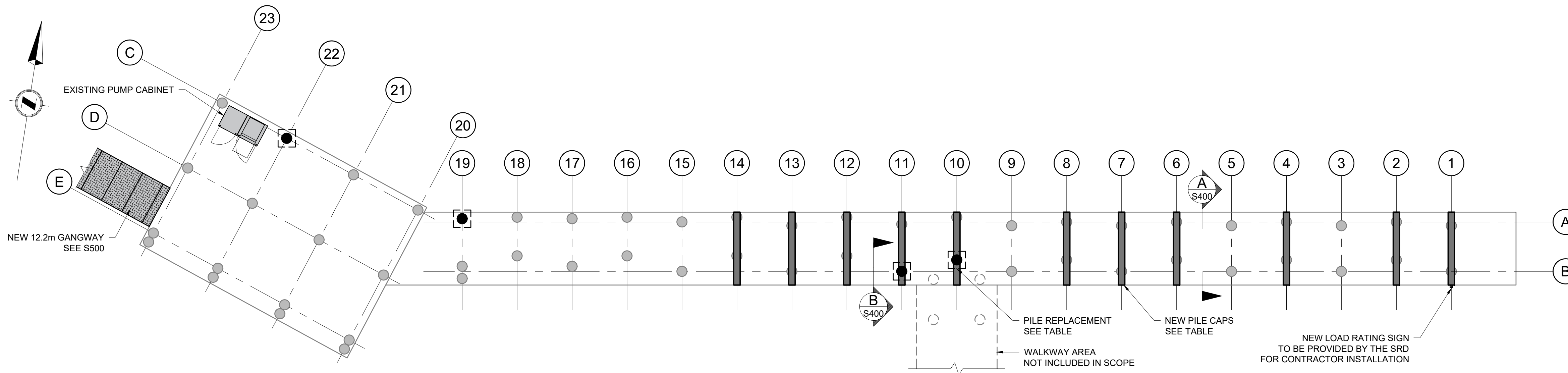
Rev.
PC



PLAN
SCALE 1:250



KEY PLAN
NTS



PLAN
SCALE 1:100

LEGEND

- EXISTING TIMBER PILE
- NEW TIMBER PILE
- NEW TIMBER PILE CAP

PILE REPAIRS	
PILE NO.	REPAIRS
10B	REPLACE PILE
11B	REPLACE PILE
19A	REPLACE PILE
22C	REPLACE PILE

PILE CAP REPAIRS	
BENT NO.	REPAIRS
1	REPLACE PILE CAP
2	REPLACE PILE CAP
4	REPLACE PILE CAP
6	REPLACE PILE CAP
7	REPLACE PILE CAP
8	REPLACE PILE CAP
10	REPLACE PILE CAP
11	REPLACE PILE CAP
12	REPLACE PILE CAP
13	REPLACE PILE CAP
14	REPLACE PILE CAP

- NOTES:**
- FOR GENERAL NOTES SEE S100.
 - SEE SHEET S400 FOR ALL TIMBER REPAIR DETAILS FOR PILES, PILE CAPS, AND CROSS-BRACING.

Rev	Date	Description	App'd
PC	2022-12-02	ISSUED FOR 100% REVIEW	GH
PB	2022-11-11	ISSUED FOR 90% REVIEW	GH
PA	2022-08-25	ISSUED FOR CONCEPT	MF

THIS DRAWING AND DESIGN IS THE PROPERTY OF MCELHANNY AND SHALL NOT BE USED, REUSED OR REPRODUCED WITHOUT THE CONSENT OF MCELHANNY. MCELHANNY WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN.

THIS DRAWING AND DESIGN HAS BEEN PREPARED FOR THE CLIENT IDENTIFIED, TO MEET THE STANDARDS AND REQUIREMENTS OF THE APPLICABLE PUBLIC AGENCIES AT THE TIME OF PREPARATION. MCELHANNY, ITS EMPLOYEES, SUBCONSULTANTS AND AGENTS WILL NOT BE LIABLE FOR ANY LOSSES OR OTHER CONSEQUENCES RESULTING FROM THE USE OR RELIANCE UPON, OR ANY CHANGES MADE TO, THIS DRAWING, BY ANY THIRD PARTY, INCLUDING CONTRACTORS, SUPPLIERS, CONSULTANTS AND STAKEHOLDERS, OR THEIR EMPLOYEES OR AGENTS, WITHOUT MCELHANNY'S PRIOR WRITTEN CONSENT.

THIS DRAWING IS NOT INTENDED FOR CONSTRUCTION PURPOSES UNTIL NOTED ISSUED FOR CONSTRUCTION. ALL MEASUREMENTS SHALL BE CHECKED BY CONTRACTOR ON SITE AND VERIFIED PRIOR TO THE INITIATION OF CONSTRUCTION.

COPYRIGHT MCELHANNY CONSULTING SERVICES LTD.

CLIENT:

990 CEDAR ST. CAMPBELL RIVER, BC, V9W 7Z8

1211 Ryan Road
Courtenay BC
Canada V9N 3R6
T 250 338 5495

Drawn: JTH
Drawing Check: MF
Designed: HH
Design Check: MF
Approver: GH

PRELIMINARY
NOT FOR
CONSTRUCTION

THIS DRAWING HAS NOT BEEN APPROVED
AND MAY CONTAIN ERRORS AND OMISSIONS

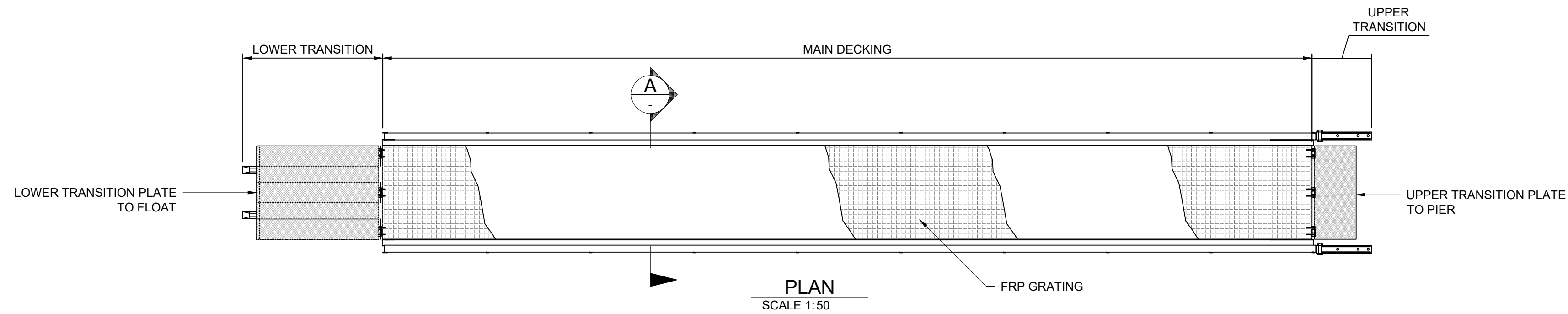
STRATHCONA REGIONAL DISTRICT

SURGE NARROWS
GENERAL ARRANGEMENT
AND PIER PLAN

Drawing No.
S300

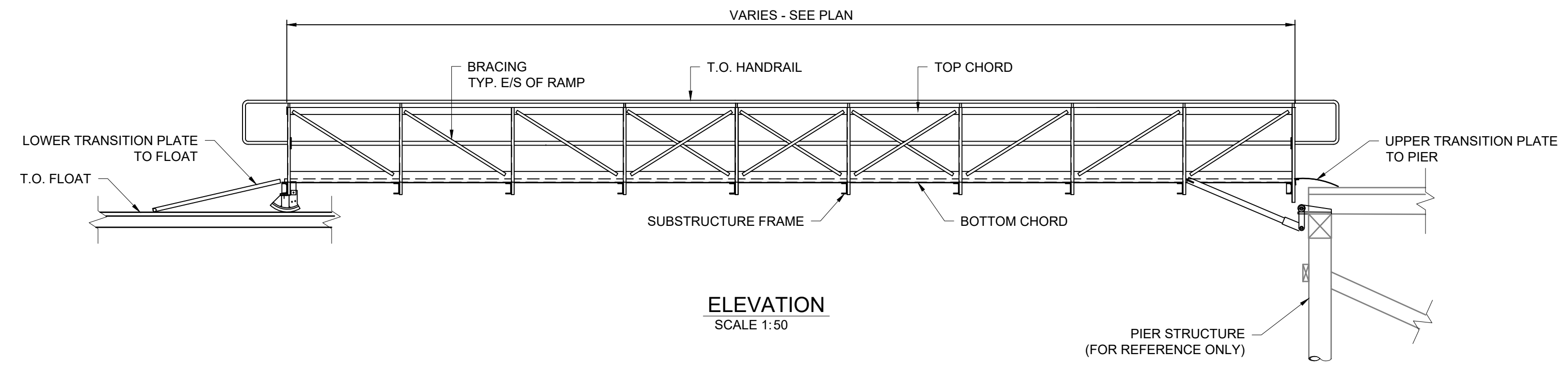
Project No.
2211-71343

Rev.
PC



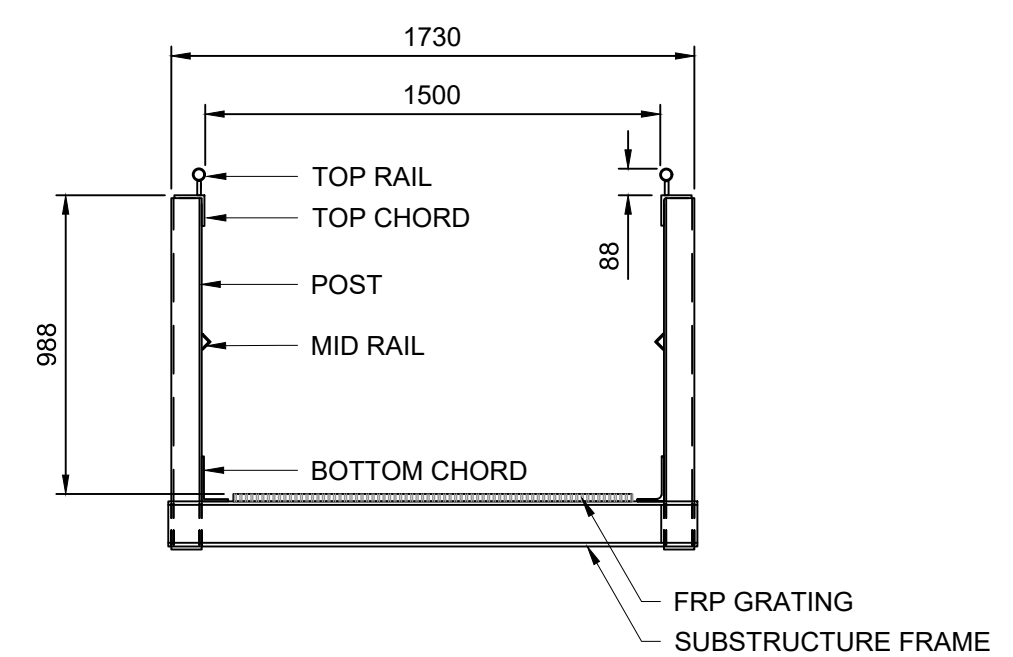
PLAN
SCALE 1:50

NOTE:
HANDRAIL NOT SHOWN FOR CLARITY



ELEVATION
SCALE 1:50

NOTE:
STEEL GANGWAY ARRANGEMENT SHOWN IS INDICATIVE ONLY. CONTRACTOR IS RESPONSIBLE FOR THE FINAL DESIGN OF THE GANGWAY AND WILL PROVIDE SEALED SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO MATERIAL PROCUREMENT AND FABRICATION.



SECTION A-A
SCALE 1:25

NOTES:
1. FOR GENERAL NOTES SEE S100

Rev	Date	Description	App'd
PC	2022-12-02	ISSUED FOR 100% REVIEW	GH
PB	2022-11-11	ISSUED FOR 90% REVIEW	GH
PA	2022-08-25	ISSUED FOR CONCEPT	MF

THIS DRAWING AND DESIGN IS THE PROPERTY OF MCELHANNNEY AND SHALL NOT BE USED, REUSED OR REPRODUCED WITHOUT THE CONSENT OF MCELHANNNEY. MCELHANNNEY WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN.

THIS DRAWING AND DESIGN HAS BEEN PREPARED FOR THE CLIENT IDENTIFIED, TO MEET THE STANDARDS AND REQUIREMENTS OF THE APPLICABLE PUBLIC AGENCIES AT THE TIME OF PREPARATION. MCELHANNNEY, ITS EMPLOYEES, SUBCONSULTANTS AND AGENTS WILL NOT BE LIABLE FOR ANY LOSSES OR OTHER CONSEQUENCES RESULTING FROM THE USE OR RELIANCE UPON, OR ANY CHANGES MADE TO, THIS DRAWING, BY ANY THIRD PARTY, INCLUDING CONTRACTORS, SUPPLIERS, CONSULTANTS AND STAKEHOLDERS, OR THEIR EMPLOYEES OR AGENTS, WITHOUT MCELHANNNEY'S PRIOR WRITTEN CONSENT.

THIS DRAWING IS NOT INTENDED FOR CONSTRUCTION PURPOSES UNTIL NOTED ISSUED FOR CONSTRUCTION. ALL MEASUREMENTS SHALL BE CHECKED BY CONTRACTOR ON SITE AND VERIFIED PRIOR TO THE INITIATION OF CONSTRUCTION.

COPYRIGHT MCELHANNNEY CONSULTING SERVICES LTD.

CLIENT:

990 CEDAR ST. CAMPBELL RIVER, BC. V9W 7Z8

1211 Ryan Road
Courtenay BC
Canada V9N 3R6
T 250 338 5495

Drawn:	Drawing Check:	Designed:	Design Check:	Approver:
JTH	MF	HH	MF	GH

**PRELIMINARY
NOT FOR
CONSTRUCTION**

THIS DRAWING HAS NOT BEEN APPROVED AND MAY CONTAIN ERRORS AND OMISSIONS

STRATHCONA REGIONAL DISTRICT

STRUCTURAL GANGWAY DETAILS

Drawing No.	S500
Project No.	2211-71343
Rev.	PC