

GENERAL ARRANGEMENT PLAN



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  - 1.0 GENERAL ARRANGEMENT PLAN & SCOPE OF WORK
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SECTION DESIGNATION  
SHEET # WHERE SECTION IS SHOWN

UNITS: All dimensions are in m unless noted otherwise.

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| 2    | FOR REVIEW 99.9% | 22 APR 21 | CE |
| 1    | FOR REVIEW       | 04 MAR 21 | CE |
| 0    | PRELIMINARY      | 23 Dec 20 | CE |
| REV. | DESCRIPTION      | DATE      | BY |

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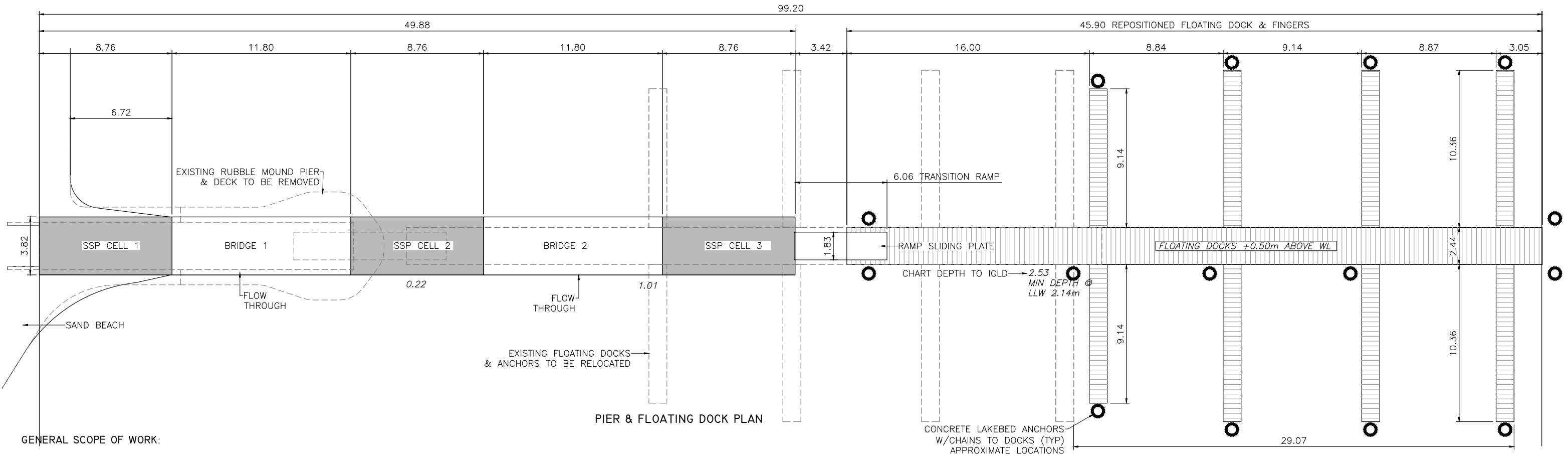
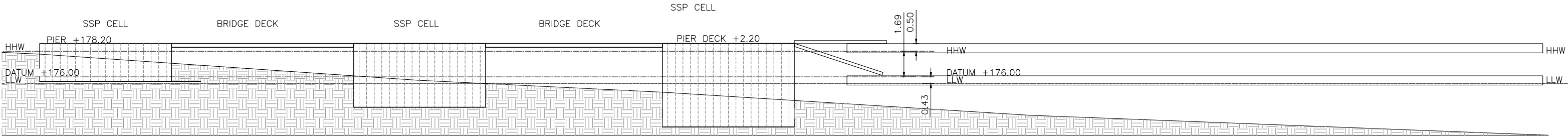
PARKS CANADA | PARCS CANADA  
901 WYE VALLEY RD., BOX 9, MIDLAND ON L4R 4K6

BEAUSOLEIL ISLAND TOBEY DOCK RECONSTRUCTION  
COVER SHEET

|                          |                      |                       |              |               |
|--------------------------|----------------------|-----------------------|--------------|---------------|
| Contract<br>PARKS CANADA | SCALE - UNO<br>1:250 | Drawing No.<br>3330-2 | SHEET<br>0.0 | REVISION<br>I |
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PIER & FLOATING DOCK ELEVATION

LAKE HURON WATER LEVELS TO IGLD +176.00  
HIGH: ALL TIME +1.69 (177.69) - APRIL TO OCTOBER +1.69 (177.69) HHW  
LOW: ALL TIME -0.43 (175.57) - APRIL TO OCTOBER -0.39 (175.61) LLW  
ESTIMATED WIND SETUP: 0.30m



GENERAL SCOPE OF WORK:

PROVIDE ALL TOOLS, EQUIPMENT, PLANT, TRANSPORTATION, LABOUR, SUPERVISION, TEMPORARY WORKS, MATERIALS, AND ALL OTHER ITEMS TO SAFELY AND DILIGENTLY PERFORM THE WORK.

1. REMOVE AND RELOCATE OR STORE EXISTING FLOATING DOCKS AND ANCHORS.
2. REMOVE AND STORE EXISTING DOCK RAMP.
3. REMOVE AND DISPOSE THE EXISTING PIER TIMBER DECK.
4. REMOVE AND STORE EXISTING PIER RIP RAP FOR REUSE.
5. REMOVE AND DISPOSE VEGETATION FROM EXISTING PIER.
6. EXCAVATE EXISTING PIER TO NATURAL LAKEBED UNDER BRIDGE 1 AND STORE GRANULAR MATERIAL FOR CELL FILL.
7. DREDGE BOULDERS AND STONE FROM UNDER SSP CELLS TO FACILITATE PILE INSTALLATION.
8. CONFIRM LENGTH, SUPPLY AND INSTALL STEEL SHEET PILE CELLS AS INDICATED.
9. SUPPLY AND INSTALL SSP HARDWARE, CONNECTORS AND FIXTURES AS INDICATED.
10. BACKFILL CELLS WITH STORED AND NEW, AS REQUIRED, COARSE GRANULAR MATERIAL.
11. INSTALL CONDUIT SLEEVE, GRANULAR BASE AND CONCRETE REINFORCING ON CELLS.
12. SUPPLY AND PLACE CONCRETE DECK ON CELLS.
13. INSTALL FLOATING DOCK ANCHORS.
14. POSITION AND INSTALL EXISTING FLOATING DOCKS.
15. INSTALL TRANSITION RAMP.
16. SUPPLY AND INSTALL BRIDGE BEAMS, PRECAST CONCRETE DECK AND HARDWARE.
17. FORM, REINFORCE AND PLACE CONCRETE BRIDGE DECK.
18. INSTALL TIMBER RUB STRIP.

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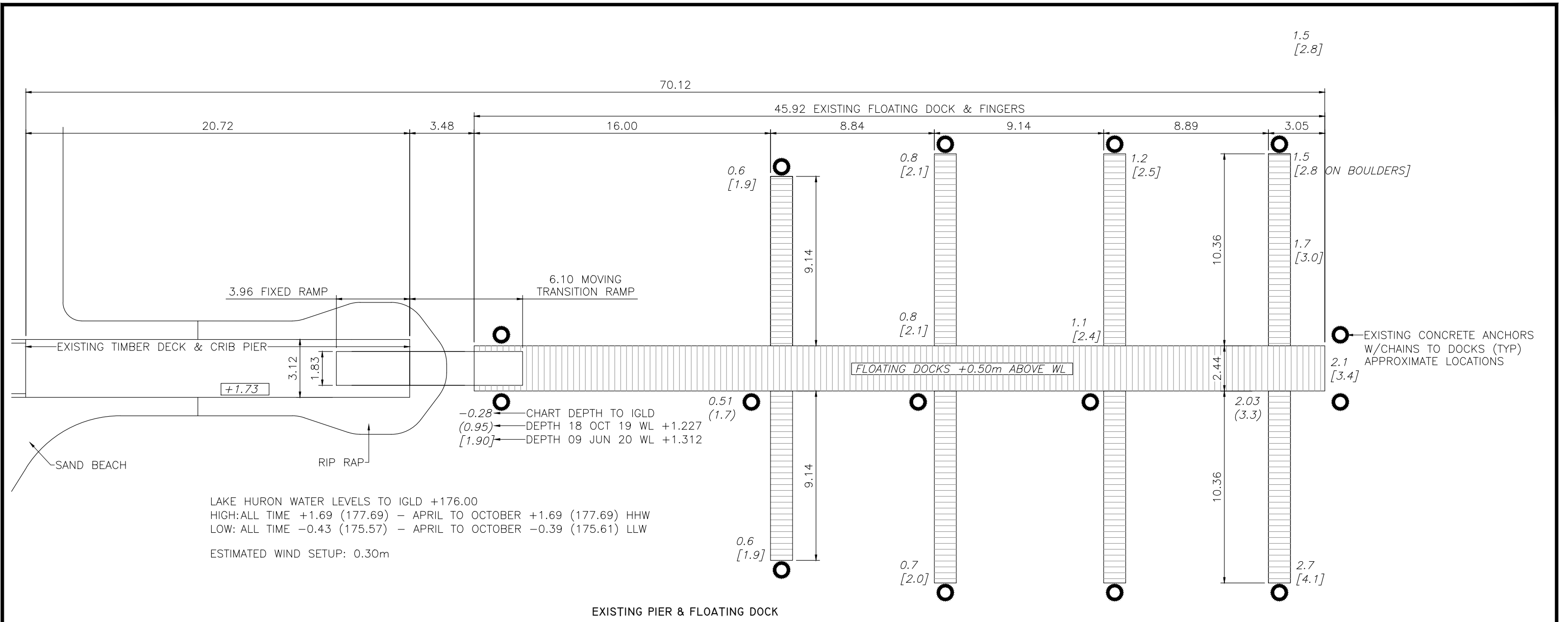
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PARKS CANADA | PARCS CANADA  
901 WYE VALLEY RD., BOX 9, MIDLAND ON L4R 4K6

BEAUSOLEIL ISLAND TOBEY DOCK RECONSTRUCTION  
GENERAL ARRANGEMENT

|                          |                      |                       |              |               |
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| Contract<br>PARKS CANADA | SCALE - UNO<br>1:250 | Drawing No.<br>3330-2 | SHEET<br>1.0 | REVISION<br>2 |
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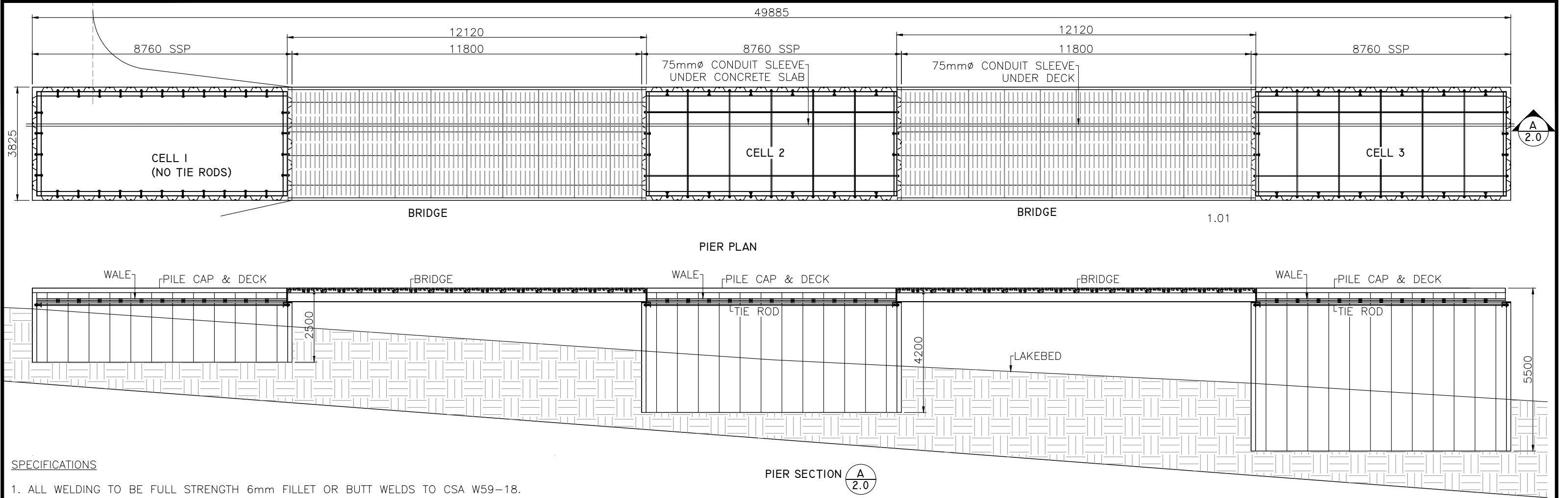


SCOPE OF WORK – EXISTING DOCK / DEMOLITION CONSTRUCTION:

1. ALL WORK SHALL COMPLY WITH ALL ENVIRONMENTAL REGULATIONS.
2. CONFIRM THE LOCATIONS, CONNECTIONS, DIMENSIONS AND SOUNDINGS ON SITE & NOTIFY THE ENGINEER OF ANY SIGNIFICANT DISCREPANCIES.
3. REMOVE AND STORE EXISTING TRANSITION RAMP AND CONNECTIONS FOR REUSE ON THE NEW DOCK.
4. DISCONNECT EXISTING ANCHORS AND CHAINS FROM THE FLOATING DOCKS.
5. RELOCATE EXISTING ANCHORS AND CHAIN TO NEW LOCATIONS.
6. MOVE EXISTING FLOATING DOCKS TO NEW LOCATION AND RECONNECT TO RELOCATED ANCHORS. PROVIDE ADDITIONAL HARDWARE AND CHAIN AS REQUIRED.
7. REMOVE AND DISPOSE EXISTING WOOD DECK AND WOOD RAMP.
8. REMOVE EXISTING RIP RAP AND STORE ON LAND FOR REUSE.
9. REMOVE AND STORE GRANULAR BACKFILL FROM THE EXISTING PIER FOR REUSE AS CELL FILL.
10. RESTORE ALL TEMPORARY STORAGE AREAS.

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SPECIFICATIONS

1. ALL WELDING TO BE FULL STRENGTH 6mm FILLET OR BUTT WELDS TO CSA W59-18.
2. STEEL FABRICATION TO CISC HANDBOOK OF STEEL CONSTRUCTION 11TH ED.
3. HSS AND W SECTIONS to CSA G40.21 350W or ASTM A572 GRADE 50.  
PLATE & C SECTIONS to CSA G40.21 300W or ASTM A572 GRADE 44.
4. JOINTS AND CONNECTIONS SHALL BE BY WELDING UNLESS INDICATED OTHERWISE.

STEEL SHEET PILING (SSP) & CELL CONSTRUCTION

1. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT GUIDES AND MATERIALS TO INSTALL THE PILES AND CELLS AS INDICATED.
2. CLEAR THE LAKEBED OF OBSTRUCTIONS & BOULDERS THAT MAY INTERFERE WITH INSTALLATION
3. PILES ARE TO BE DRIVEN TO REFUSAL ON BEDROCK OR TO DEPTHS INDICATED.
4. PILES ARE TO BE POSITIONED WITHIN 25mm OF THE LOCATIONS INDICATED AND LINKED TOGETHER IN FULL CELLS PRIOR TO FINAL DRIVING. CONTRACTOR SHALL PERFORM ANY ADDITIONAL WORK REQUIRED TO ADJUST CONSTRUCTION AND BRIDGE COMPONENTS TO FIT AS A RESULT OF PILES INSTALLED OUT OF POSITION AT NO ADDITIONAL COST TO THE OWNER.
5. PILES ARE TO BE CUT OFF TO ELEVATIONS INDICATED. PILES AT ENDS OF CELLS SHALL BE DRIVEN FULL SUPPLIED LENGTH.
6. CUT 36mmØ HOLES IN PILES FOR TIE RODS & WALE BOLTS.
7. INSTALL PILE CAPS, PLATES, WALES AND TIE RODS, SUPPORT TIE RODS PRIOR TO BACKFILLING
8. BACKFILL WITH APPROVED STORED GRANULAR AND IMPORTED GRANULAR MATERIAL, IF REQUIRED, EVENLY ACROSS THE CELLS
9. INSTALL CONDUIT SLEEVE
10. INSTALL GRANULAR FILL TO UNDER SLAB LEVEL AND COMPACT TO 150kPa BEARING CAPACITY
11. INSTALL REBAR AND PLACE PROTECT AND CURE CONCRETE.

| COMPONENT |                  |  |            |                 |          |                                     |
|-----------|------------------|--|------------|-----------------|----------|-------------------------------------|
| Part      | Item             | Description  | Mat'l      | Size            | Quantity | Notes                               |
| SSP-1     | STEEL SHEET PILE | ROLL FORM S80 or EQ S=528cm <sup>3</sup> /m, T=8.0mm | 350W/GR 50 | 2.5, 4.2 & 5.5m |          | W/Roll Form S Pile Cap              |
| W-1       | Side SSP WALES   | 2-C130x13 (C5x9)                                     | 300W       | 8460x2          | 50.76m   |                                     |
| W-2       | End SSP WALES    | 2-C130x13 (C5x9)                                     | 300W       | 3525x2          | 21.15m   |                                     |
| TR-1      | TIE ROD          | 32mmØ Threaded Tie Rod                               | 300W       | 32Ø x 3650      | 10       | W/Washers & Nuts & Plate on outside |
| TR-2      | TIE ROD          | 32mmØ Threaded Tie Rod                               | 300W       | 32Ø x 8600      | 4        | W/Washers & Nuts & Plate on outside |
| WB-1      | WALE BOLT        | Bolt W/Plate Nut & 2 Washers                         | A325       | 32x200 (1¼"x8") | 92       | W/100x120x12.7 Plate on inside      |
|           | CONCRETE         | DECK CONCRETE  | CSA C-2    |                 |          |                                     |

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SECTION DESIGNATION  
SHEET # WHERE SECTION IS SHOWN



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SHEET # WHERE SECTION IS FROM

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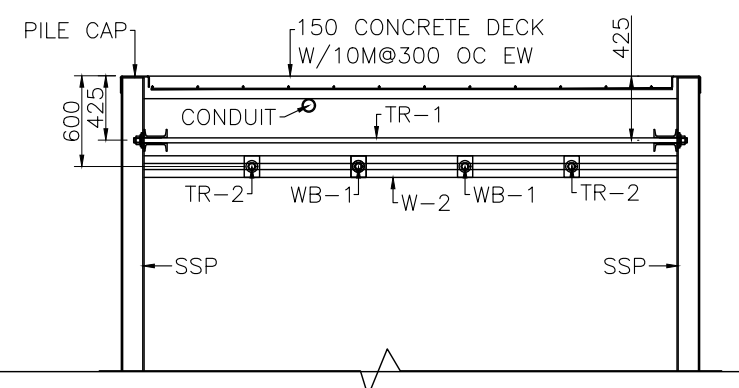
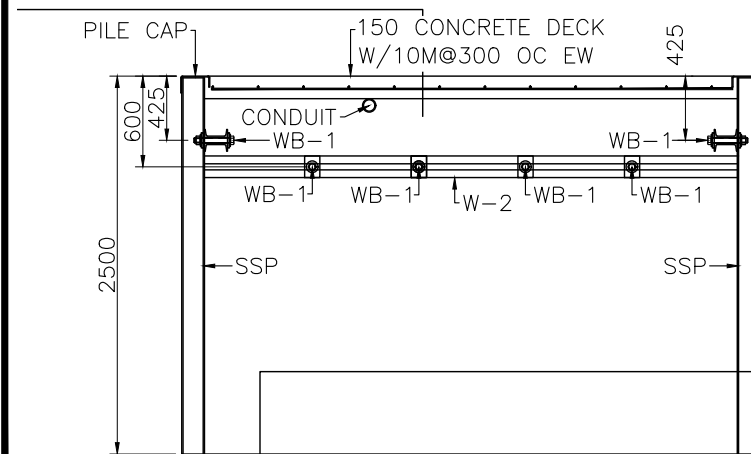
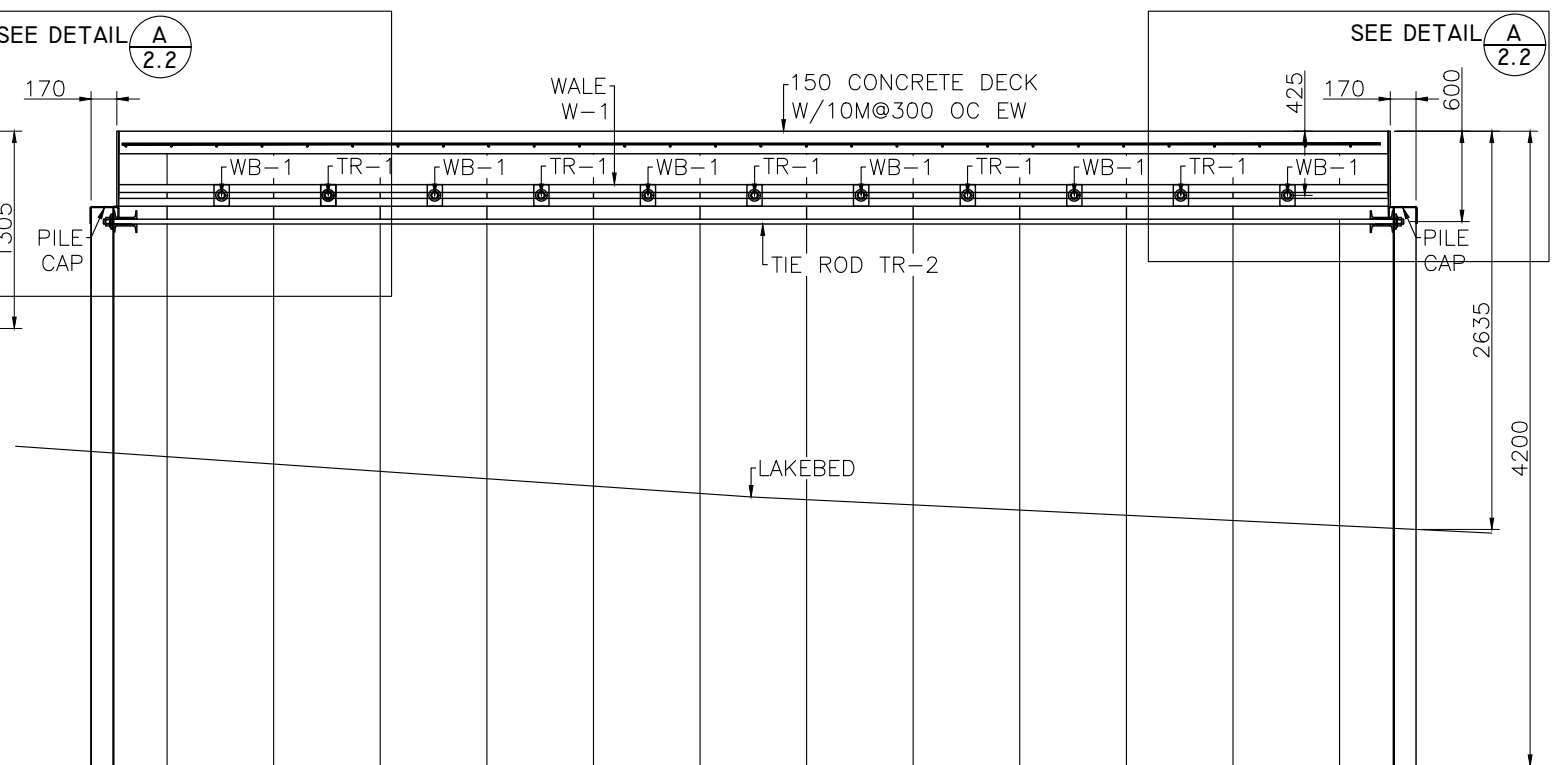
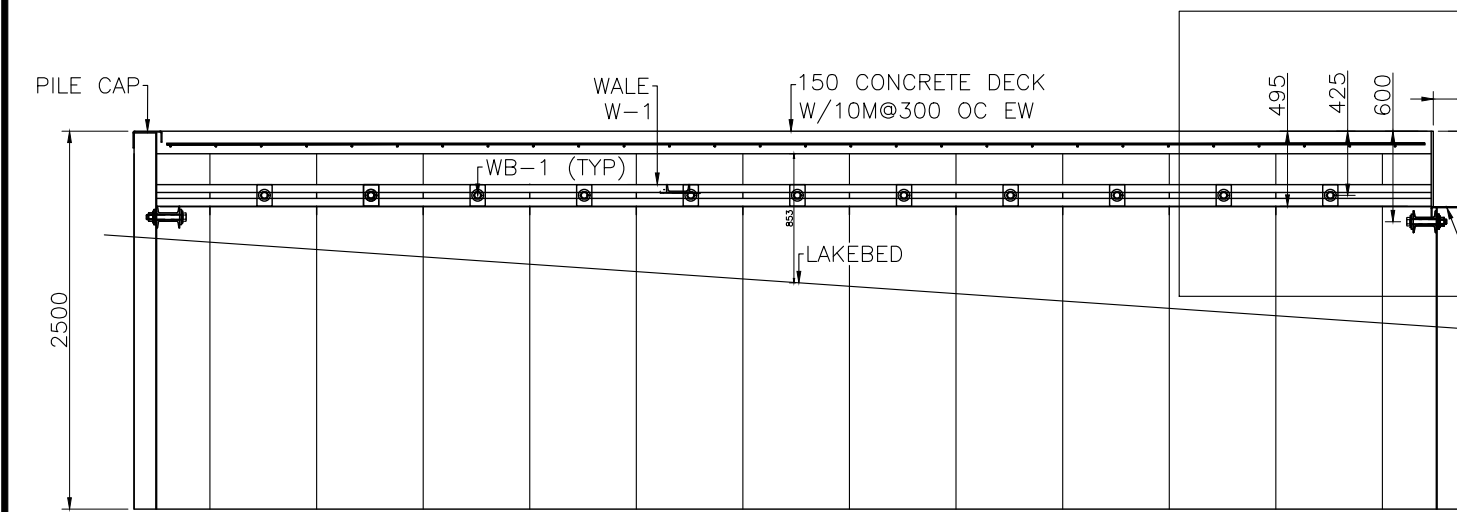
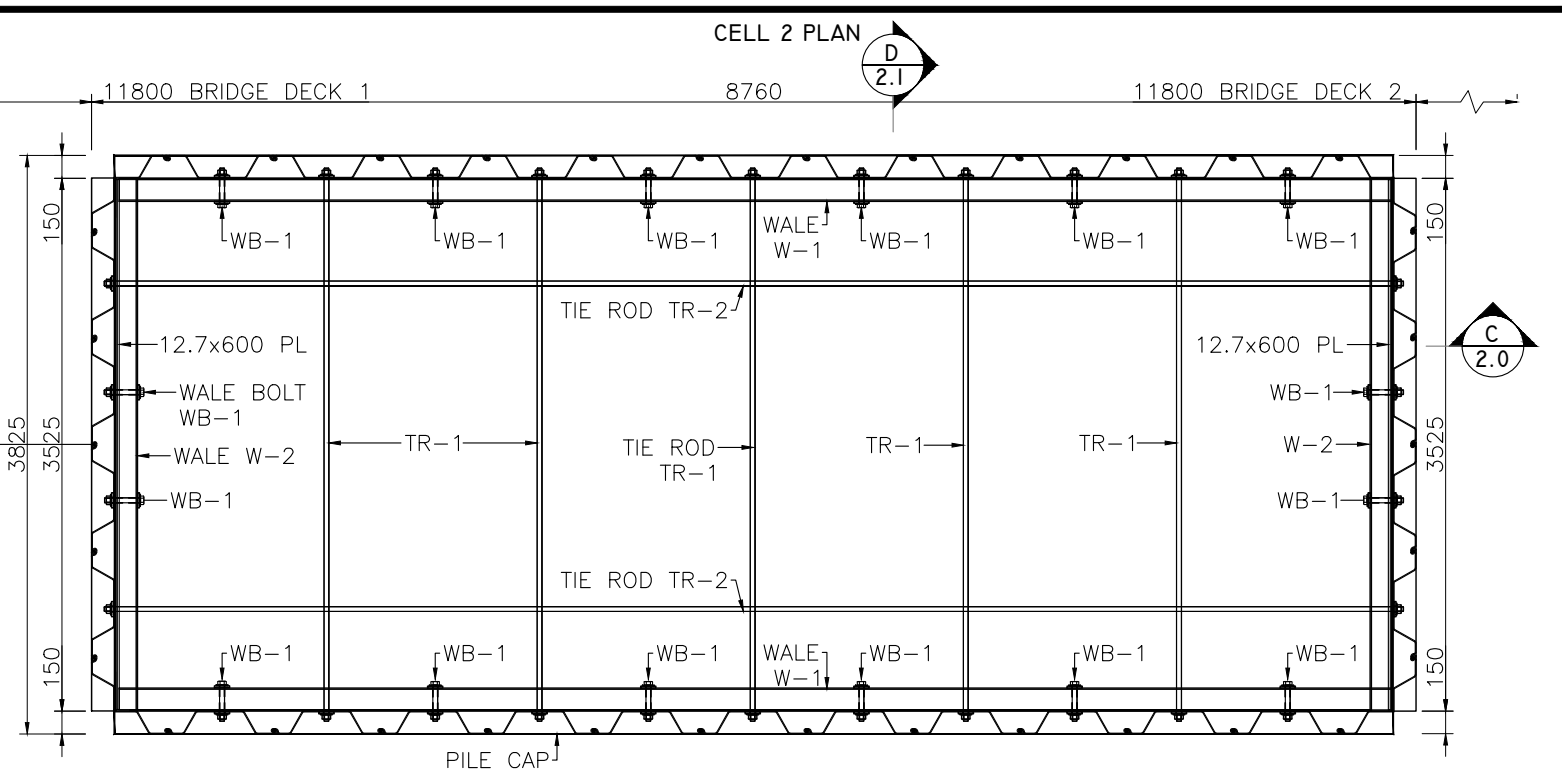
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BEAUSOLEIL ISLAND TOBEY DOCK RECONSTRUCTION  
PIER PLAN & SECTION

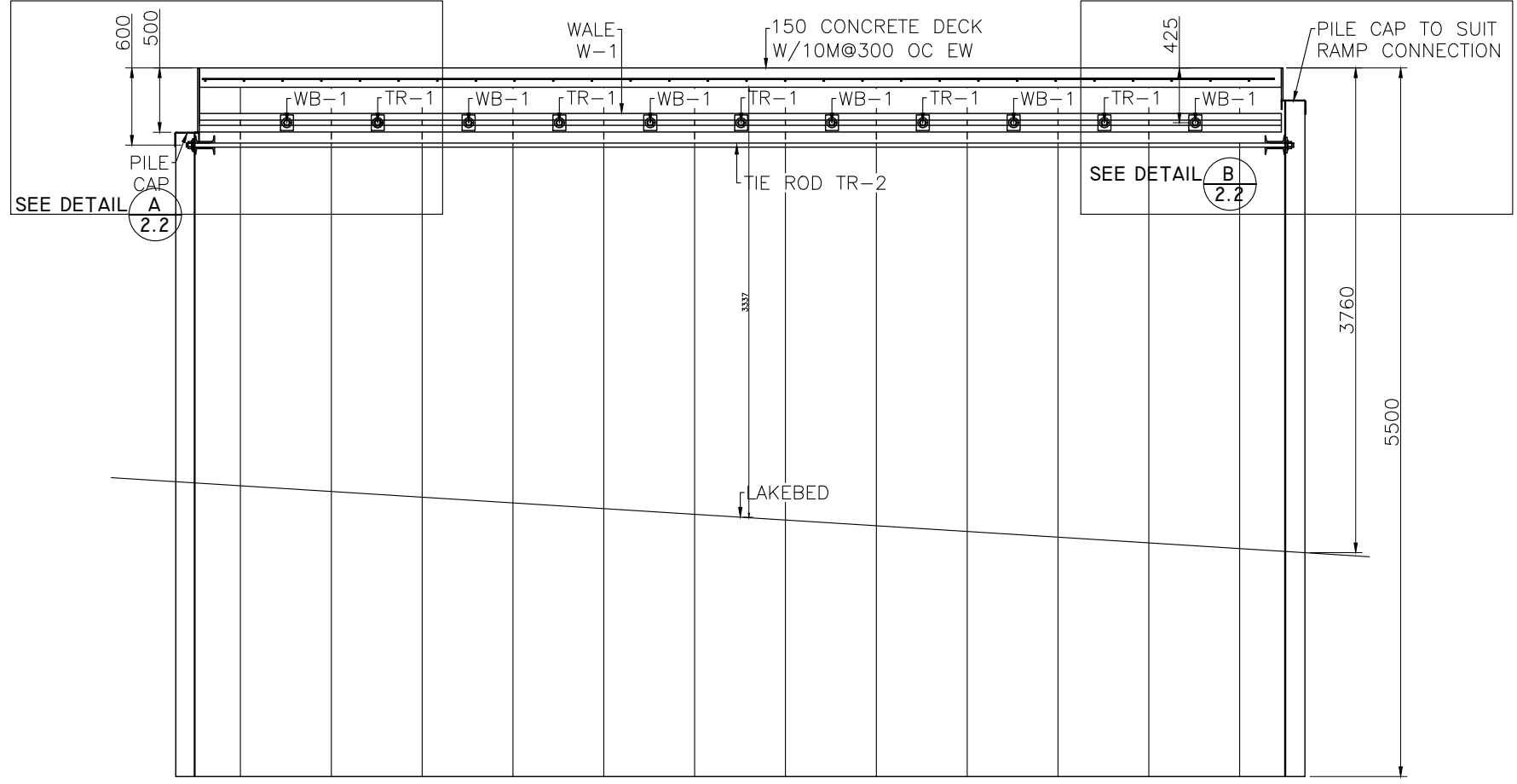
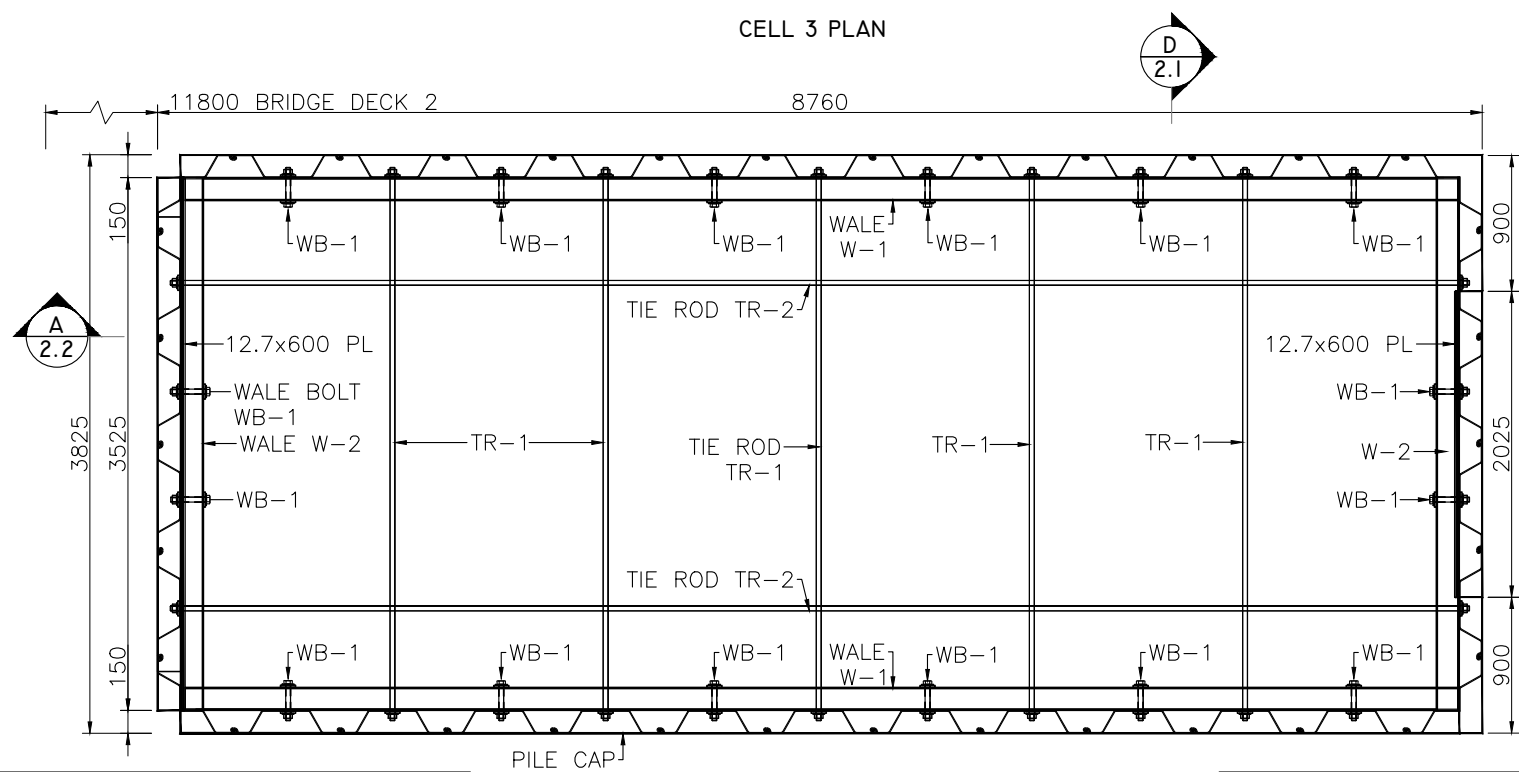
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| Contract<br>PARKS CANADA | SCALE - UNO<br>1:125 | Drawing No.<br>3330-2 | SHEET<br>2.0 | REVISION<br>1 |
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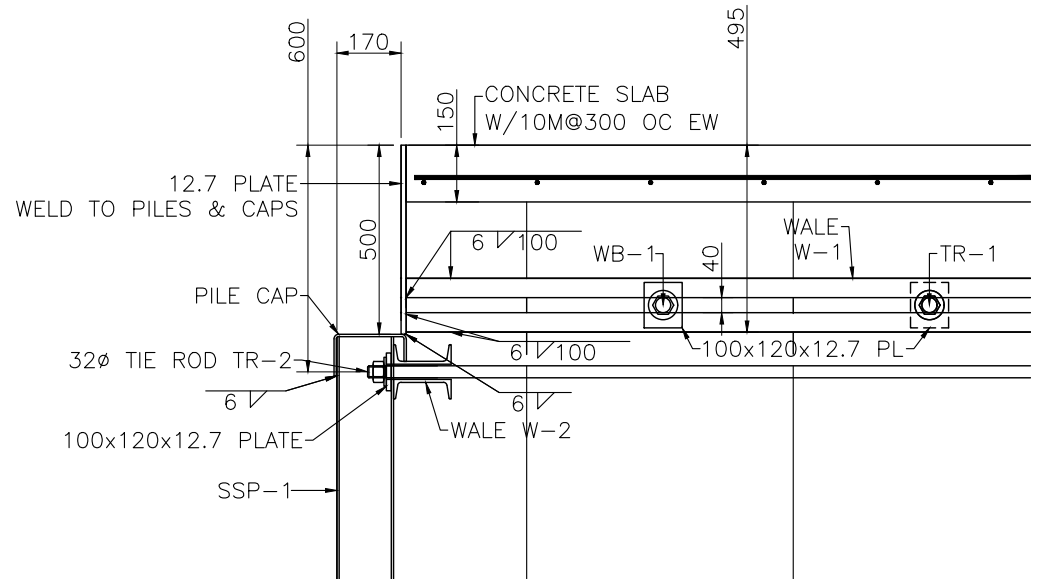
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| BEAUSOLEIL ISLAND TOBEY DOCK RECONSTRUCTION<br>CELL 1 & 2 PLANS & SECTIONS  |                  |             |          |
| Contract  | SCALE – UNO      | Drawing No. | SHEET    |
| PARKS CANADA  | 1:50             | 3330-2      | 2.1      |
|   |                  |             | REVISION |
|   |                  |             | 1        |

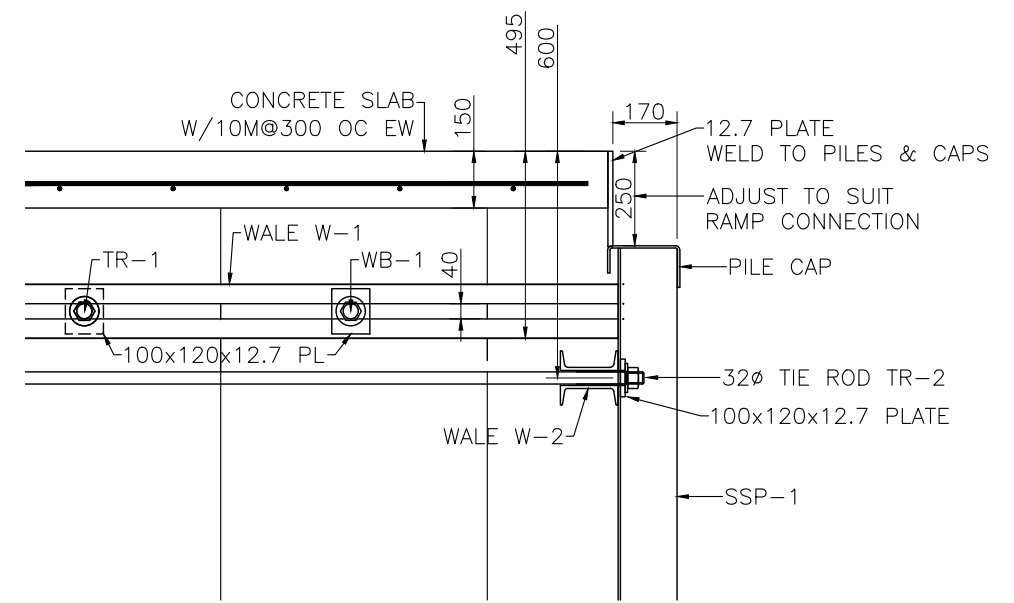
CELL 3 PLAN



CELL I SECTION  
A  
2.2



DETAIL A  
1:20  
A  
2.2



DETAIL B  
1:20  
B  
2.2

|      |                  |           |    |
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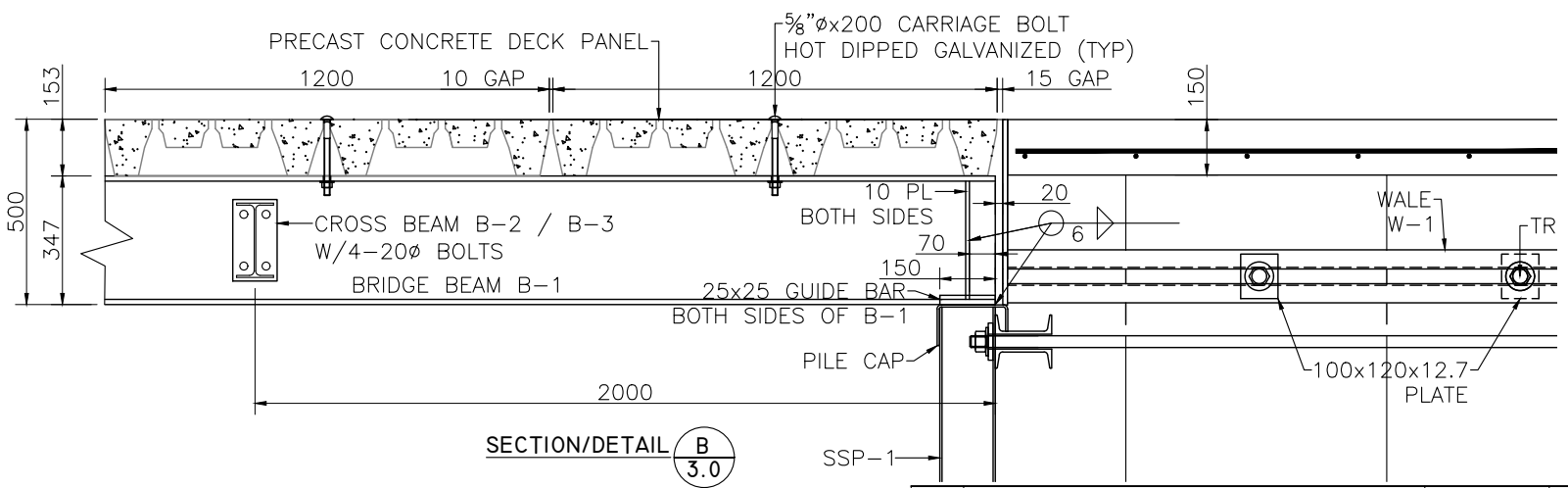
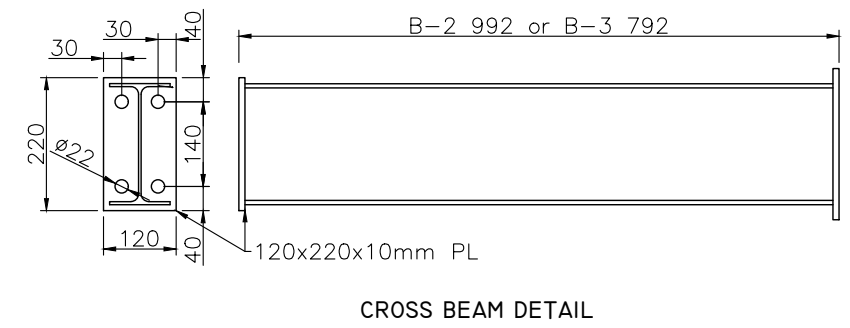
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BEAUSOLEIL ISLAND TOBEY DOCK RECONSTRUCTION  
CELL 3 PLAN & SECTIONS

|              |             |             |       |          |
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| Contract     | SCALE - UNO | Drawing No. | SHEET | REVISION |
| PARKS CANADA | 1:50        | 3330-2      | 2.2   | 1        |



| COMPONENT |                   |                            |                        |               |          |   |
|-----------|-------------------|----------------------------|------------------------|---------------|----------|---|
| Part      | Item              | Description                | Mat'l                  | Size          | Quantity | Notes   |
| B-1       | BRIDGE BEAM       | W360x64                    | 350A                   | 12080         | 8        | W/10mm Stiffener Plates @ Ends  |
| B-2       | CROSS BEAM        | W200x19                    | 350A                   | 972           | 12       | W/120x220x10mm END PLATES   |
| B-3       | CROSS BEAM        | W200x19                    | 350A                   | 772           | 6        | W/120x220x10mm END PLATES   |
| DP-1      | DECK PANELS       | PRECAST CONCRETE HOG SLATS | 68kPa CSA A-1 Concrete | 1200x3660x152 | 10       | Manufactured by STUBBES Concrete – FASTENED TO B-1 W/5/8"Øx200 Carriage Bolts |
|           | TIMBER RUB STRIPS | DECK PANEL PROTECTOR       | PT GR 1 S-P-F          | 90x140        | 4        | Fastened to DP-1 W/10Øx150 AB as per HILTI HIT HY100 SYSTEM OR Eq             |

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