

BAYFIELD, ONTARIO

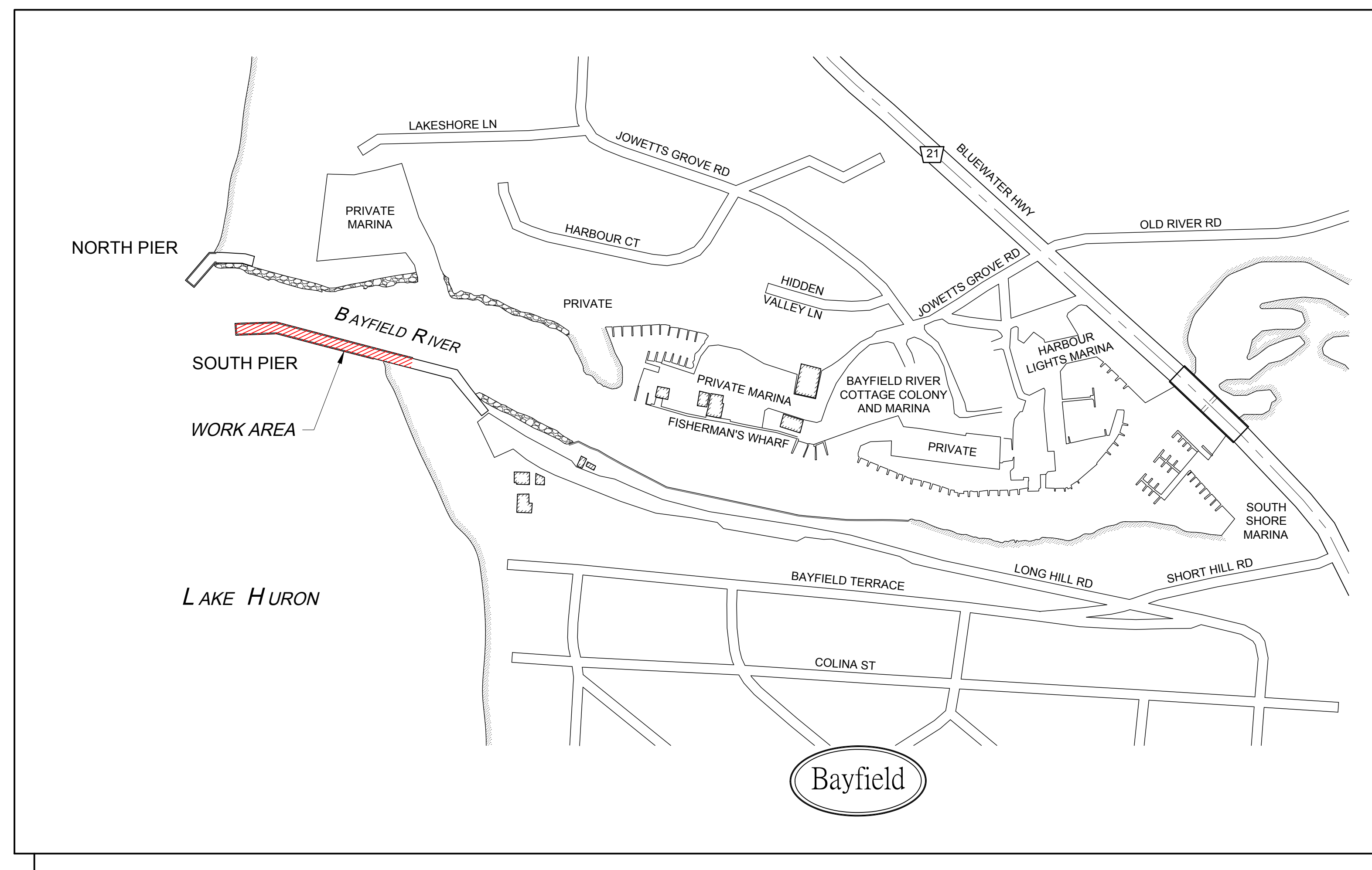
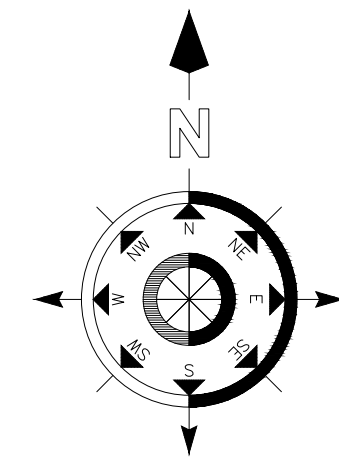
SOUTH PIER REPAIRS (LOCATOR CODE 4516)



GOVERNMENT
OF CANADA
FISHERIES
AND OCEANS

GOVERNEMENT
DU CANADA
PÊCHES
ET OCÉANS

SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



AECOM

London, Ontario
519.673.0510
PROJECT No. 60577485

**SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION**



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NOTES:

REVISION:

No.	REVISIONS	DATE
0	ISSUED FOR TENDER	10/02/2018

 SCALE: CLASS:
 PROJECT:
**SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION
BAYFIELD, ONTARIO**
SOUTH PIER REPAIRS
 DESCRIPTION:
**NOTES, ABBREVIATIONS
AND LEGENDS**
 DRAWN: T.G. APPROVED: J.P.
 DATE: SEPT 2018 DATE: SEPT 2018
 LOCATION:
BAYFIELD ONTARIO
 DRAWING NO.: S-001 LOCATOR CODE: 4516



GENERAL NOTES :

1. SAFEGUARD ALL EXISTING STRUCTURES, SERVICES AND UTILITIES WHICH WILL BE AFFECTED BY THE WORK OF THIS CONTRACT.
2. BEFORE PROCEEDING WITH THE WORK, CHECK AND VERIFY ALL DIMENSIONS AND ALL ELEVATIONS SHOWN ON THE DRAWINGS AND REPORT ANY DISCREPANCIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ENVIRONMENTAL PROTECTION AND CONSTRAINTS DURING PERFORMANCE OF THE WORK.
4. ACCESS PERMISSION FOR SHEET PILING INSTALLATION SHALL BE ARRANGED BY SMALL CRAFT HARBOURS, FOR THE HARBOUR SIDE.
5. THE CONTRACTOR SHALL EMPLOY THE SERVICES OF AN UNDERWATER DIVER TO GUIDE THE REMOVAL OF OBSTRUCTIONS ALONG NEW SHEET PILE WORK AND TO REVIEW THE EXTENTS OF TOE DISPLACEMENT AT THE NORTH PIER PRIOR TO SHEET PILE DRIVING.
6. ALL DIMENSIONS IN MILLIMETERS, UNLESS OTHERWISE NOTED.
7. THE USE OF THE TERM "TYPICAL" AND "TYP." DENOTES A COMMON DIMENSION, FEATURE, FORM OF CONSTRUCTION AND SCOPE OF WORK, WHICH IS APPLICABLE TO OTHER LOCATIONS ON THE DRAWING (TO AVOID REPETITION).

CONSTRUCTION NOTES :

1. THE LOCATION OF POLE LINES, CONDUITS, WATERMAIN, SEWERS AND OTHER UTILITIES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN THE ACCURACY OF THE LOCATION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED.
2. BEFORE STARTING WORK THE CONTRACTOR SHALL LOCATE ALL UTILITIES AND SHALL PROTECT THEM FROM DAMAGE.
3. ALL WORK SHALL MEET THE MINIMUM STANDARDS OF THE SPECIFICATIONS AND THE OCCUPATIONAL HEALTH AND SAFETY ACT (OHSA).
4. ENVIRONMENTAL APPLICATIONS HAVE BEEN FILED WITH VARIOUS AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ENVIRONMENTAL PROTECTION AND CONSTRAINTS DURING PERFORMANCE OF THE WORK.
5. ALL TREES, FACILITIES AND MISCELLANEOUS OBSTRUCTIONS TO THE WORK ARE NOT NECESSARILY SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL COMPLETE A VISUAL SITE REVIEW PRIOR TO THE BID AND PRIOR TO UNDERTAKING THE WORK.
6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A SECURE SITE PERIMETER FENCE AT ALL TIMES DURING CONSTRUCTION. FENCING SHALL INCLUDE SIGNAGE NOTIFYING PUBLIC OF HAZARDS. LOCKABLE GATES SHALL BE INSTALLED TO PROVIDE VEHICLE AND PERSONNEL ACCESS.
7. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
8. THE CONTRACTOR SHALL PREPARE AND MAINTAIN A WORKING AS BUILT FULL SIZE 'REDLINE' MARKUP SET OF THE CONTRACT DRAWINGS. WORKING AS BUILTS SHALL BE KEPT CURRENT ON A WEEKLY BASIS AND BE AVAILABLE ON THE JOB SITE AT ALL TIMES. THE 'REDLINE' SET SHALL DEPICT ALL CURRENT VARIATIONS/DEVIATIONS (INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: ADDENDUMS, CHANGE ORDERS, FIELD ADJUSTMENTS, EXISTING AND NEW UTILITY LINES), MEASUREMENTS ARE TO BE SHOWN FOR ALL CHANGE OF DIRECTION POINTS AND ALL COMPONENTS. THESE SHALL BE SHOWN WITH TWO OFFSET DISTANCES TO PERMANENTLY FIXED FEATURES.
9. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING A PRE-CONSTRUCTION SURVEY TO DOCUMENT SITE CONDITIONS PRIOR TO START OF WORK.

MATERIAL SPECIFICATIONS :

1. CONCRETE: IN ACCORDANCE WITH CSA STANDARD A23.1 AND A23.2.
 CLASS OF CONCRETE: REMAINDER 30 MPa
 CLEAR COVER TO REINFORCING STEEL: REMAINDER 70 ± 20mm
2. STRUCTURAL CONCRETE UNLESS OTHERWISE NOTED: 30 MPa AT 28 DAYS, EXPOSURE CLASSIFICATION F-1.
3. REINFORCING STEEL: CSA STANDARD G30.18, GRADE 400, DEFORMED BARS.
4. STRUCTURAL STEEL: CSA STANDARD G40.20/G40.21, GRADE 350W ROLLED SECTIONS, 300W PLATES.
5. SHEET PILING: CSA STANDARD G40.21, GRADE 350W OR ASTM A572, GRADE 50.
6. ANCHORS: ASTM A307.
7. WELDING: CSA STANDARD W59 PERFORMED BY WELDERS MEETING THE REQUIREMENTS OF CSA STANDARD W47.
8. UNLESS OTHERWISE NOTED THE MINIMUM FILLET WELD SHALL BE AS FOLLOWS:

MATERIAL THICKNESS OF THICKER PART JOINED (mm)	MINIMUM SIZE OF SINGLE PASS FILLET WELD (mm)
TO 12 INCLUSIVE	5
OVER 12 TO 20	6
OVER 20 TO 40	8
OVER 40 TO 60	10
OVER 60 TO 80	12
9. SHEET PILES AND TIE RODS:
 1. REPAIR AND REPLACEMENT OF SHEET PILES AND TIE RODS, NOT INDICATED ON THESE DRAWINGS, MAY BE REQUIRED FOLLOWING REMOVAL OF CONCRETE DECK. THIS REPAIR WORK WILL BE COVERED AS EXTRA WORK.
10. DOWELS INTO CONCRETE: CHEMICAL ADHESIVE TYPE. DRILL HOLES SHALL BE DOWEL DIAMETER +4mm. MODIFY DIAMETER AS REQUIRED TO SUIT THE REQUIREMENTS OF THE CHEMICAL ADHESIVE MANUFACTURER.

DESIGN LOADING :

SLAB LIVE LOAD : 5.0 kN/m²

REFERENCE PLANS :

EXISTING DETAILS OF PIERS HAVE BEEN DERIVED FROM DRAWINGS BY PUBLIC WORKS OF CANADA, BAYFIELD ONTARIO, DATED NOVEMBER 1962, JULY 1966 AND OCTOBER 1987.

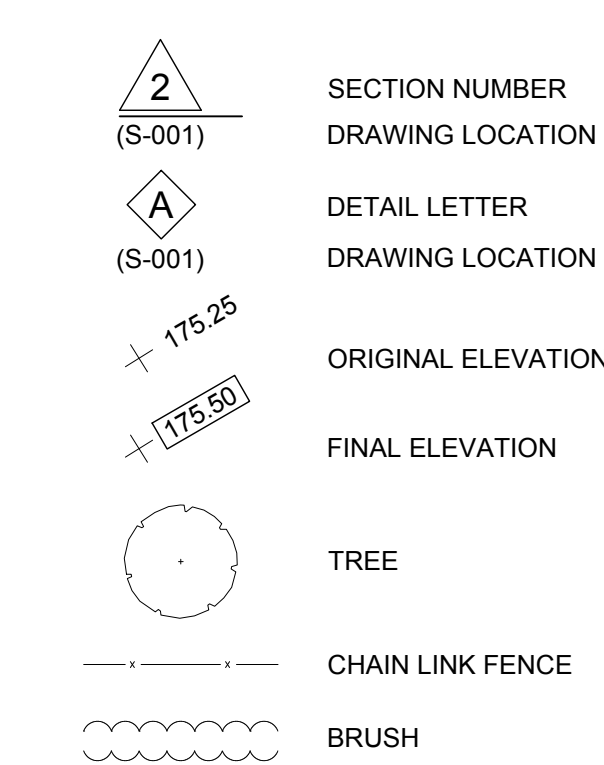
SURVEY INFORMATION :

1. SURVEY INFORMATION PROVIDED BY SMALL CRAFT HARBOURS CENTRAL AND ARCTIC REGION, JUNE 2018.
2. BENCHMARK :
 GEODETIC BENCHMARK 72U097 TOP OF CONCRETE SOUTH SIDE OF SOUTH PIER, ELEVATION 178.107.
3. ELEVATIONS ARE PROVIDED IN RELATION TO CHART DATUM (LEVEL 0.00) RELATIVE TO IGLD 1985 (ELEVATION 176.00), UNLESS OTHERWISE NOTED.

ABBREVIATIONS :

BOT. CONC.	BOTTOM CONCRETE	m	METERS
CL.	CENTRE LINE	MAX.	MAXIMUM
C.J.	CONSTRUCTION JOINT	MIN.	MINIMUM
CONT.	CONTINUOUS	MISC.	MISCELLANEOUS
DIA.	DIAMETER	mm	MILLIMETERS
DWG.	DRAWING	N.T.S.	NOT TO SCALE
E.F.	EACH FACE	PL.	PLATE
EL.	ELEVATION	R/W	RETAINING WALL
E.W.	EACH WAY	SQ.	SQUARE
E.J.	EXPANSION JOINT	SSP	STEEL SHEET PILING
EX.	EXISTING	T/C	TOP OF CONCRETE
GRAN.	GRANULAR	TYP.	TYPICAL
HWL	HIGH WATER LEVEL	U.O.N.	UNLESS OTHERWISE NOTED
I.G.L.D.	INTERNATIONAL GREAT LAKES DATUM	U/S	UNDERSIDE
LWL	LOW WATER LEVEL	WL	WATER LEVEL
LS	LIGHT STANDARD	W.P.	WORKING POINT

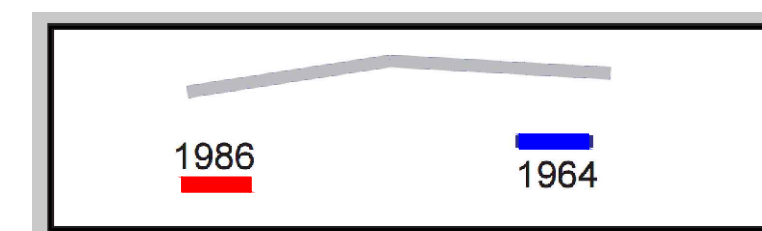
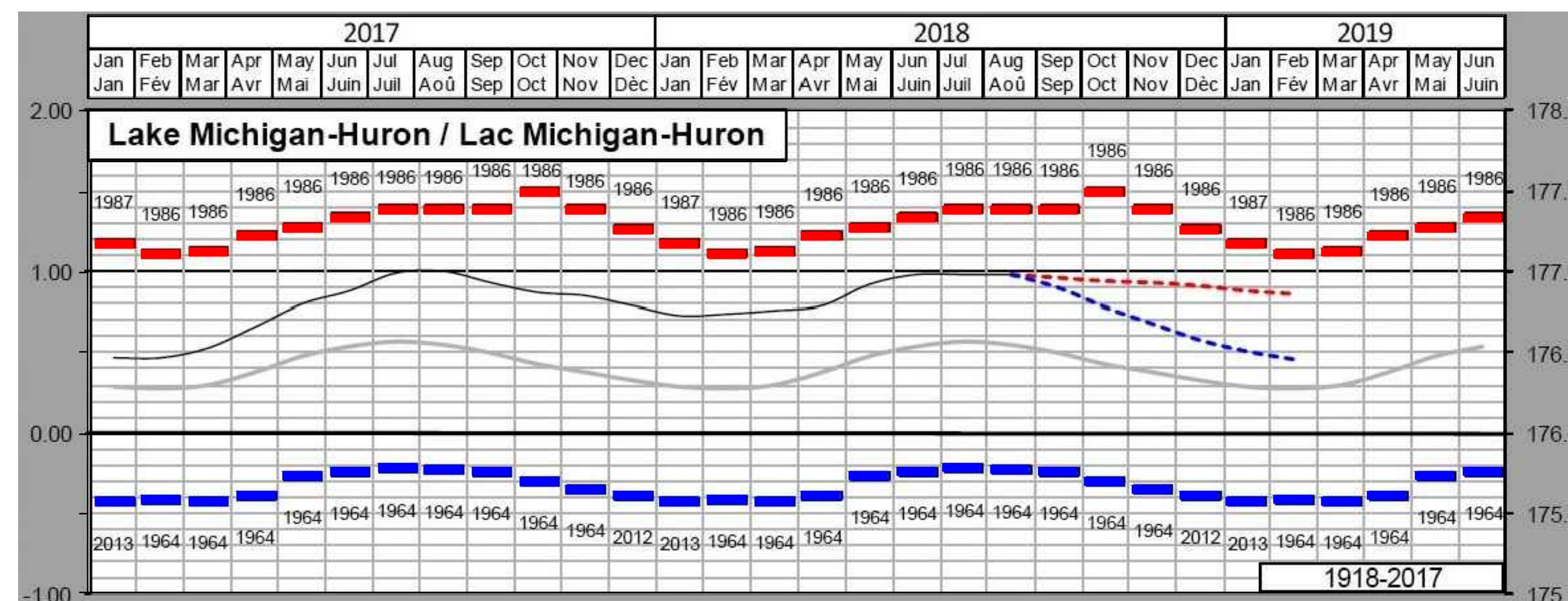
LEGEND :



LIST OF PROJECT DRAWINGS :

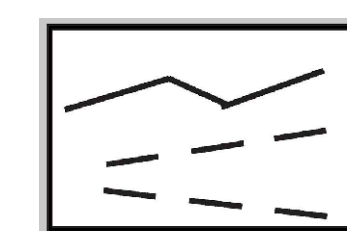
Sheet Number	Sheet Title
S-001	NOTES, ABBREVIATIONS AND LEGENDS
S-002	GENERAL ARRANGEMENT
S-003	SOUTH PIER (WEST END) EXISTING AND REMOVALS PLAN
S-004	SOUTH PIER (WEST END) EXISTING AND REMOVALS DETAILS
S-005	SOUTH PIER (WEST END) REHABILITATED PLAN - 1
S-006	SOUTH PIER (WEST END) REHABILITATED PLAN - 2
S-007	SOUTH PIER SECTIONS
S-008	MISCELLANEOUS DETAILS

WATER LEVEL CHART : (WATER LEVELS TAKEN FROM www.waterlevels.gc.ca)



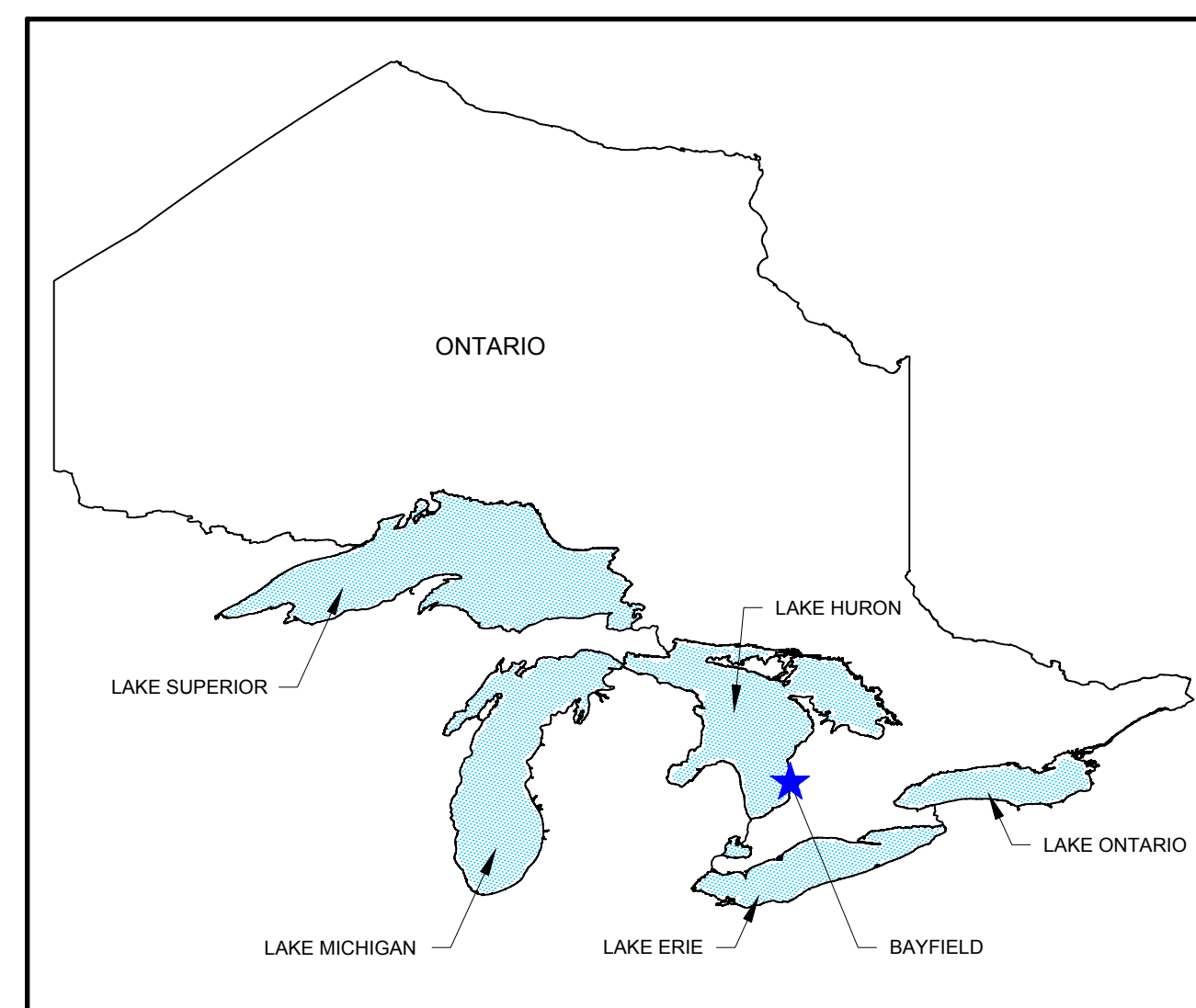
ALL-TIME AVERAGE

HISTORIC EXTREMES - MAXIMUM / MINIMUM



RECORDED MONTHLY MEAN LEVEL

PROBABLE RANGE OF FUTURE LEVELS



KEY MAP

SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



AECOM

London, Ontario
519.673.0510

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NOTES:

- FOR NOTES, ABBREVIATIONS AND LEGENDS SEE DRAWING S-001.
- BEACH SHALL NOT BE USED FOR LAY/DOWN OF EQUIPMENT OR MATERIALS OR HEAVY ACCESS TO SOUTH PIER.



REVISION:		
No.	REVISIONS	DATE
0	ISSUED FOR TENDER	10/02/2018

SCALE:	CLASS:
AS NOTE	

PROJECT:
SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION
BAYFIELD, ONTARIO
SOUTH PIER REPAIRS

DESCRIPTION:
GENERAL
ARRANGEMENT

DRAWN:	APPROVED:
T.G.	J.P.

DATE:	DATE:
SEPT 2018	SEPT 2018

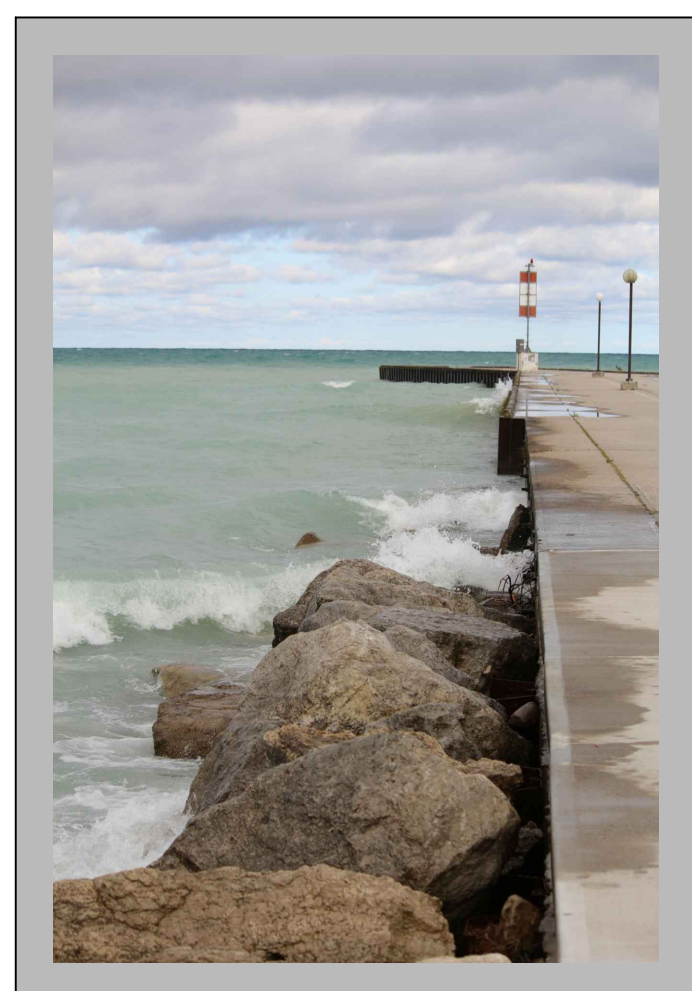
LOCATION:
BAYFIELD ONTARIO

DRAWING NO.:	LOCATOR CODE:
S-002	4516

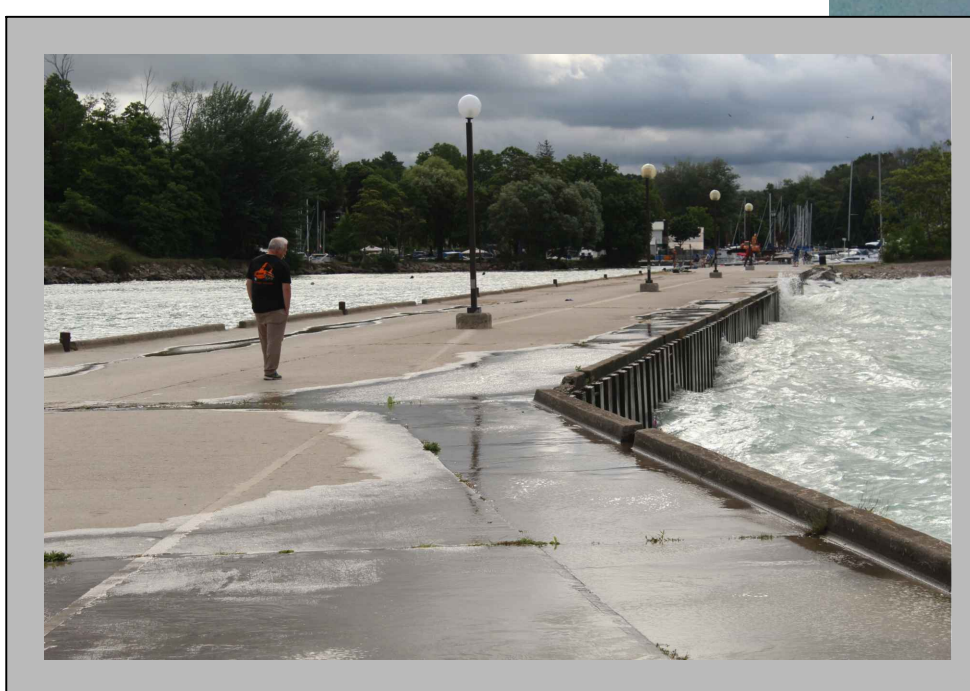


PLAN
1:750 (FULL SIZE)
1:1500 (REDUCED)

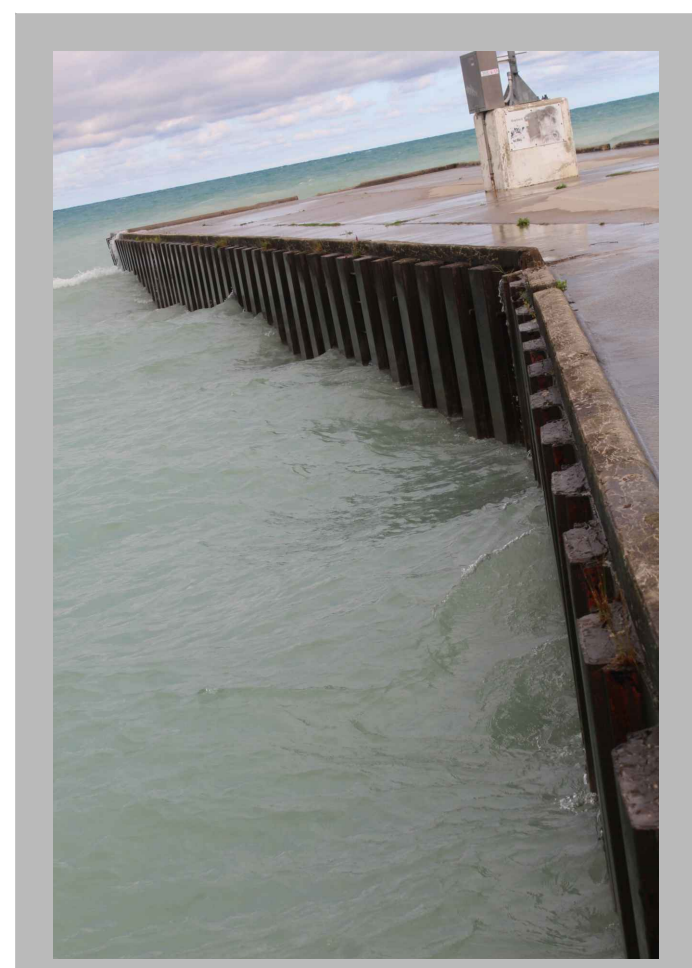
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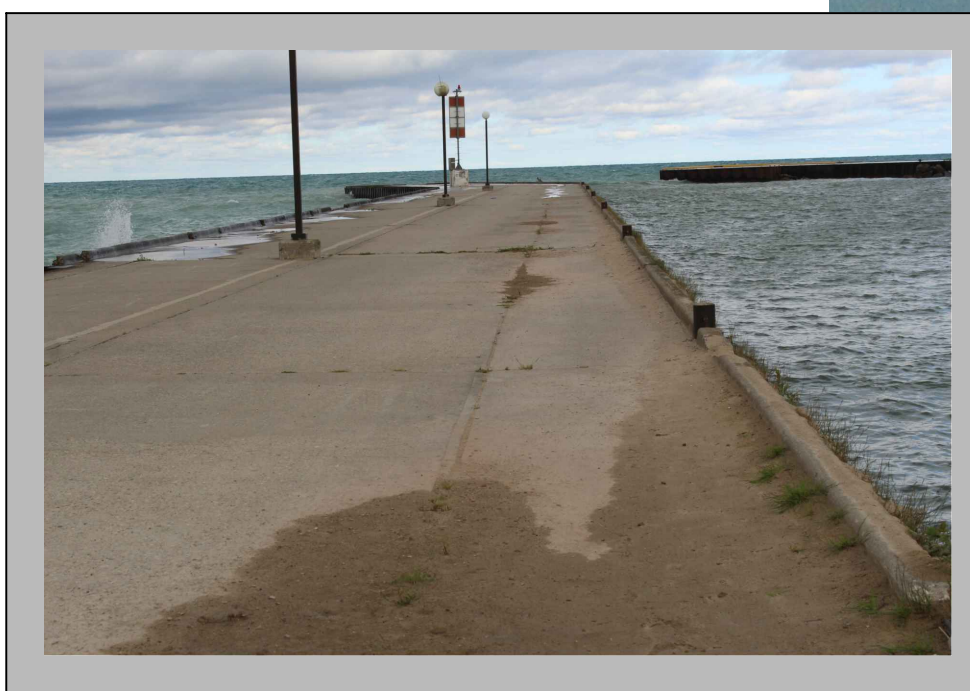
P1 SOUTH PIER



P2 SOUTH PIER



P3 SOUTH PIER



P4 SOUTH PIER

BENCH MARK NOTES :

BM 1 BENCH MARK, GEODETIC SURVEY OF CANADA No. 72U097 EL. 178.107.

BM 2 BENCH MARK, HYDROGRAPHIC SERVICE OF CANADA No. 8216 (1970).

BM 3 BENCH MARK, GEODETIC SURVEY OF CANADA No. 72U098 EL. 178.13.

GOVERNMENT OF CANADA / GOUVERNEMENT DU CANADA
 FISHERIES AND OCEANS / PÊCHES ET OCÉANS

SMALL CRAFT HARBOURS
 CENTRAL AND ARCTIC REGION



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- NOTES:
- FOR NOTES, ABBREVIATIONS AND LEGENDS SEE DRAWING S-001.
 - TEMPORARILY DE-ENERGIZE LIGHT POLES AND CAREFULLY REMOVE CONCRETE LIGHT POLE BASES. ACTUAL LOCATIONS OF ELECTRICAL CONDUIT IS UNKNOWN. PROTECT, SUPPORT AND RETAIN CONDUITS.
 - DECK WIDTH INDICATED ON PLANS ARE TO INSIDE FACES OF SSP.
 - FOR REMOVAL NOTES SEE DRAWING S-004.

LEGEND:
 X T/CONC. 178.10
 EXISTING ELEVATIONS



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PROJECT:
 SMALL CRAFT HARBOURS
 CENTRAL AND ARCTIC REGION
 BAYFIELD, ONTARIO
 SOUTH PIER REPAIRS

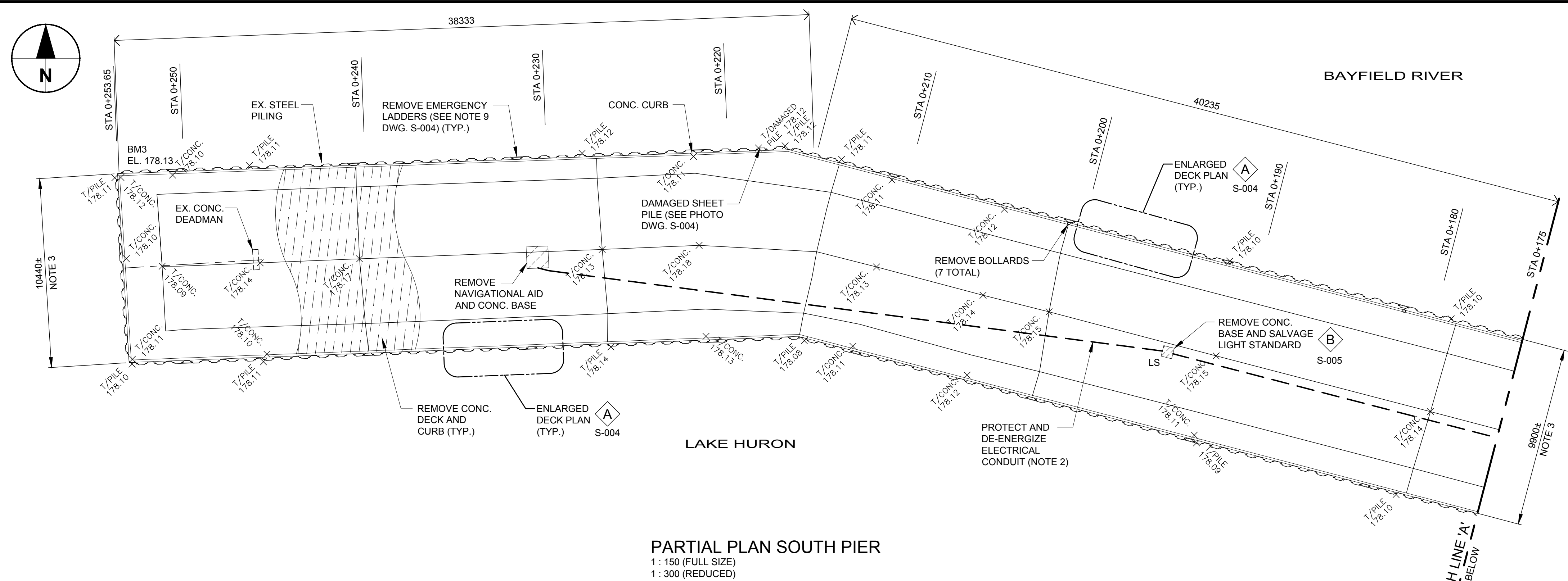
DESCRIPTION:
 SOUTH PIER (WEST END)
 EXISTING AND REMOVALS
 PLAN

DRAWN: T.G. APPROVED: J.P.

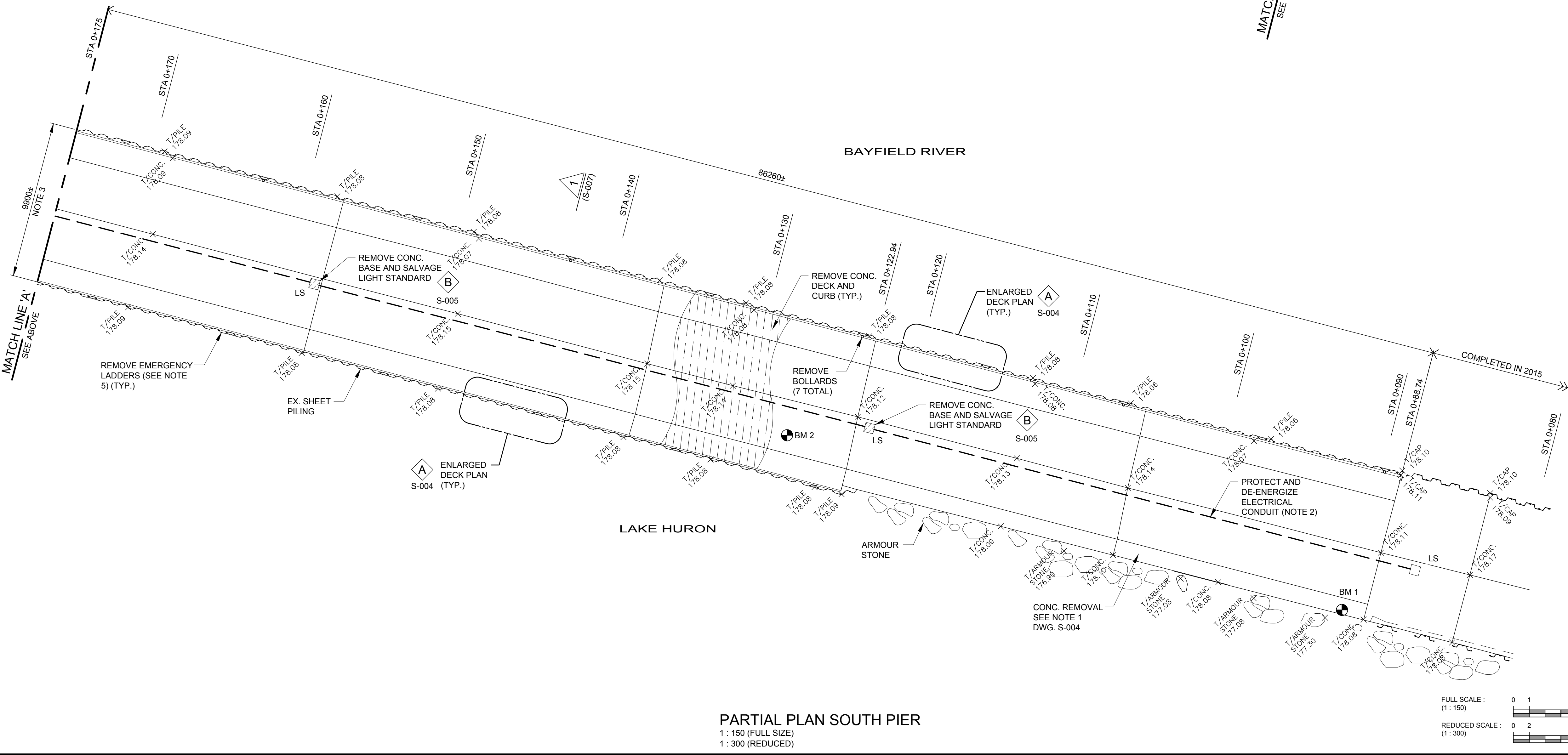
DATE: SEPT 2018 DATE: SEPT 2018

LOCATION:
 BAYFIELD ONTARIO

DRAWING NO.: S-003 LOCATOR CODE: 4516



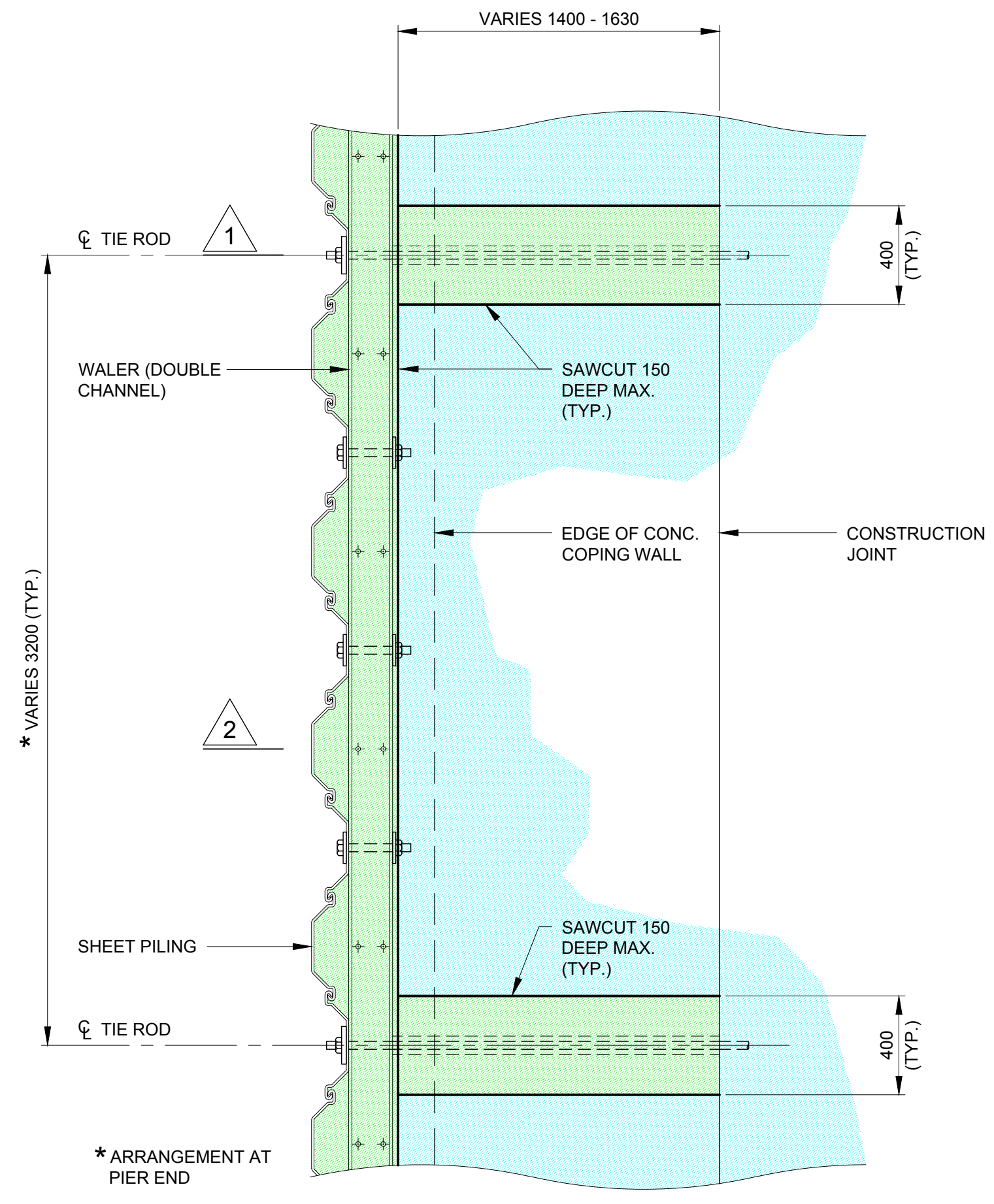
PARTIAL PLAN SOUTH PIER
 1: 150 (FULL SIZE)
 1: 300 (REDUCED)



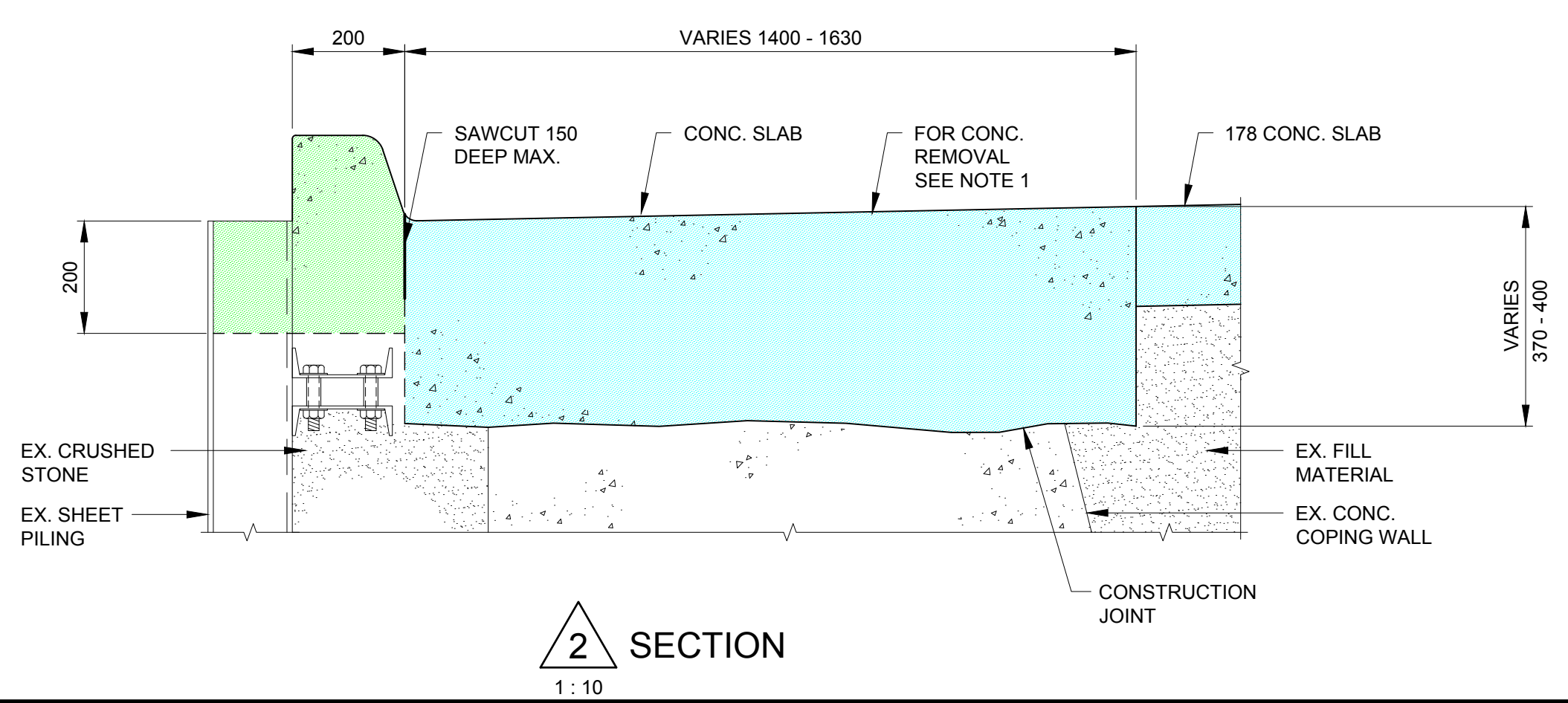
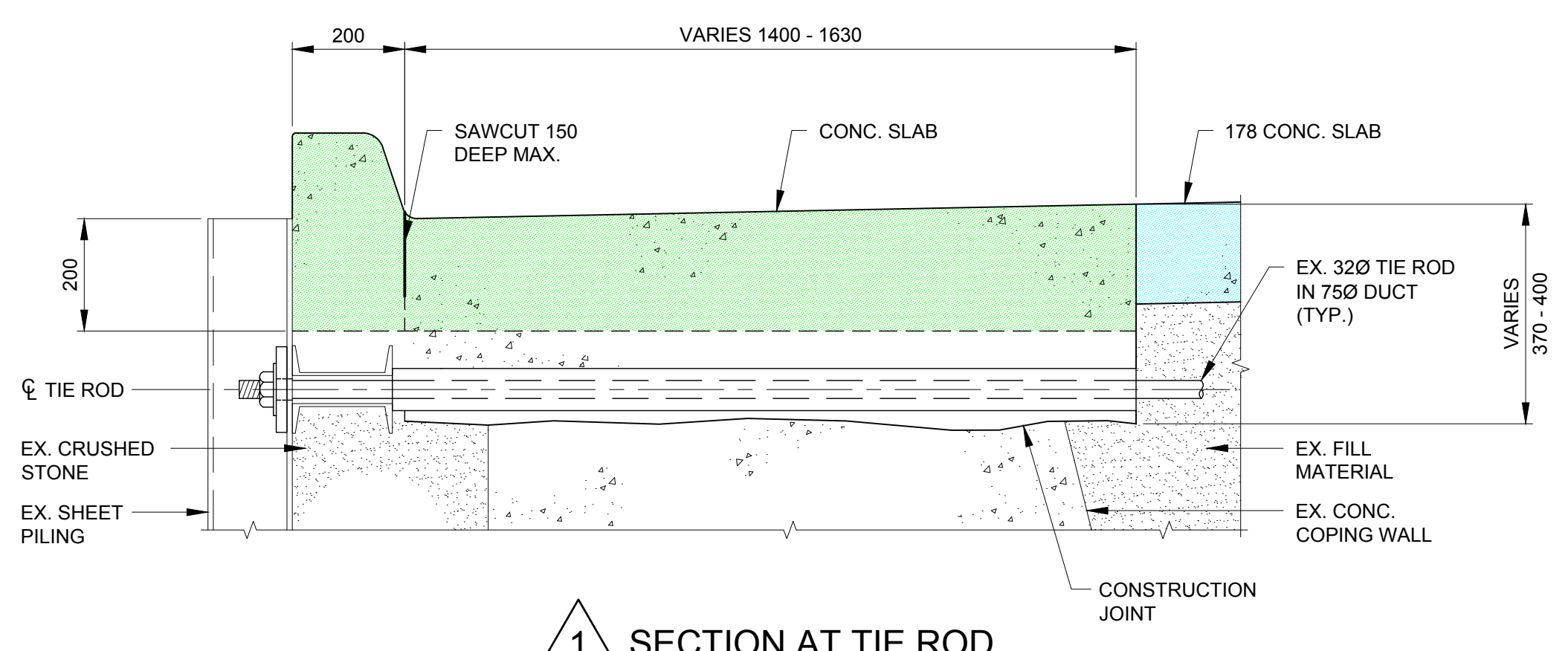
PARTIAL PLAN SOUTH PIER
 1: 150 (FULL SIZE)
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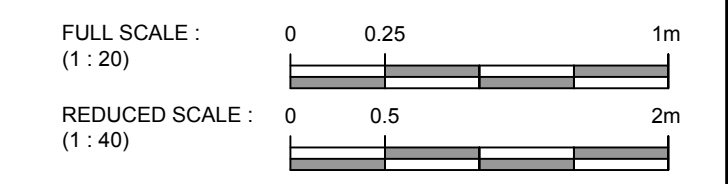


A PARTIAL PLAN
1:20



- REMOVALS - NOTES :
- FOR NOTES, ABBREVIATIONS AND LEGENDS SEE DRAWING S-001.
 - EXISTING STEEL BOLLARDS ARE WELDED TO THE TOP OF WALER. CAREFULLY CUT AND REMOVE THE BOLLARD WITHOUT DAMAGE TO THE WALER. THE CUT LINE MAY BE LOCATED 150mm ABOVE THE WALER.
 - PROTECT BENCH MARKS DURING REMOVALS. RETAIN BRASS MARKERS AND RETURN TO THE DEPARTMENTAL REPRESENTATIVE.
 - IDENTIFY ALL COMPONENTS TO REMAIN IN PLACE AND PROVIDE MEASURES TO ENSURE THAT THEY ARE NOT DAMAGED DURING REMOVAL OPERATIONS.
 - REMOVAL OF EXISTING ITEMS SHALL BE PERFORMED WITH GREAT CARE SO AS NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF EXISTING STRUCTURES.
 - REVIEW ALL ITEMS IDENTIFIED TO BE SALVAGED AND REPORT IF ANY ARE NOT SALVAGEABLE TO THE CONTRACT ADMINISTRATOR PRIOR TO COMMENCEMENT OF REMOVALS. ONCE REMOVAL OPERATION IS STARTED, ALL SALVAGED ITEMS THAT BECOME DAMAGED ARE TO BE REPLACED BY THE CONTRACTOR AT NO EXTRA EXPENSE TO THE OWNER.
 - ASSESSMENT AND CONSIDERATION RELATED TO THE COMPETENCY OF EXISTING STRUCTURAL COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR. MEANS/METHODOLOGIES FOR REMOVALS AND ACCESS TO CARRY OUT THE WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - TEMPORARILY DE-ENERGIZE LIGHT POLES AND CAREFULLY REMOVE CONCRETE AROUND EXISTING LIGHT POLE BASES. ACTUAL LOCATIONS OF ELECTRICAL CONDUIT IS UNKNOWN. PROTECT, SUPPORT AND RETAIN CONDUITS.
 - CUT EXISTING BAR LADDERS AT SSP IN PAN LOCATIONS AROUND PERIMETER OF SOUTH PIER WITHIN WORK AREA ONLY AND GRIND SMOOTH.
 - DEEPER SAWCUTS MAY BE PERMITTED BY THE DEPARTMENTAL REPRESENTATIVE IF DEEMED TO HAVE NO DETRIMENTAL IMPACTS ON EXISTING STRUCTURES.

- LEGEND :
- FULL DEPTH REMOVAL (NO RESTRICTIONS)
 - PARTIAL DEPTH REMOVAL WITH CHIPPING HAMMERS



**SMALL CRAFT HARBOURS
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- NOTES:
- REMOVE TOP 200mm x 1050mm WIDE SOUTH CONCRETE COPING CONTINUOUSLY FROM STATION 0+88.7 TO STATION 0.122.9.



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SCALE: AS NOTED CLASS:

PROJECT:
**SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION
BAYFIELD, ONTARIO**

SOUTH PIER REPAIRS

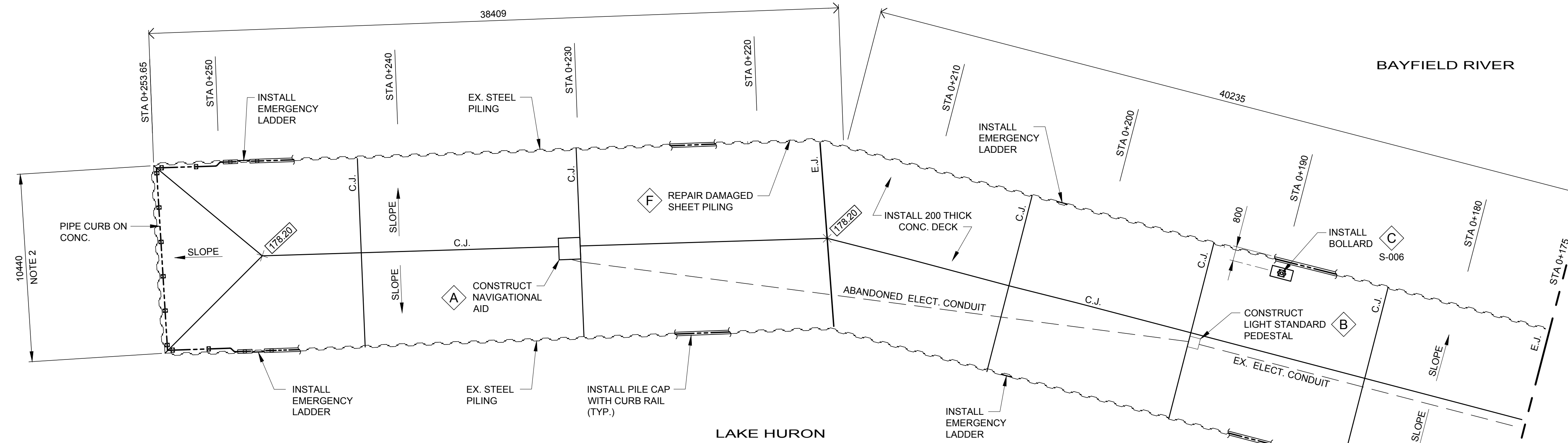
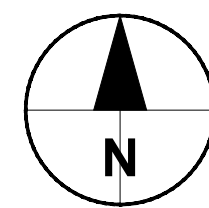
DESCRIPTION:
**SOUTH PIER (WEST END)
EXISTING AND REMOVALS
DETAILS**

DRAWN: T.G. APPROVED: J.P.

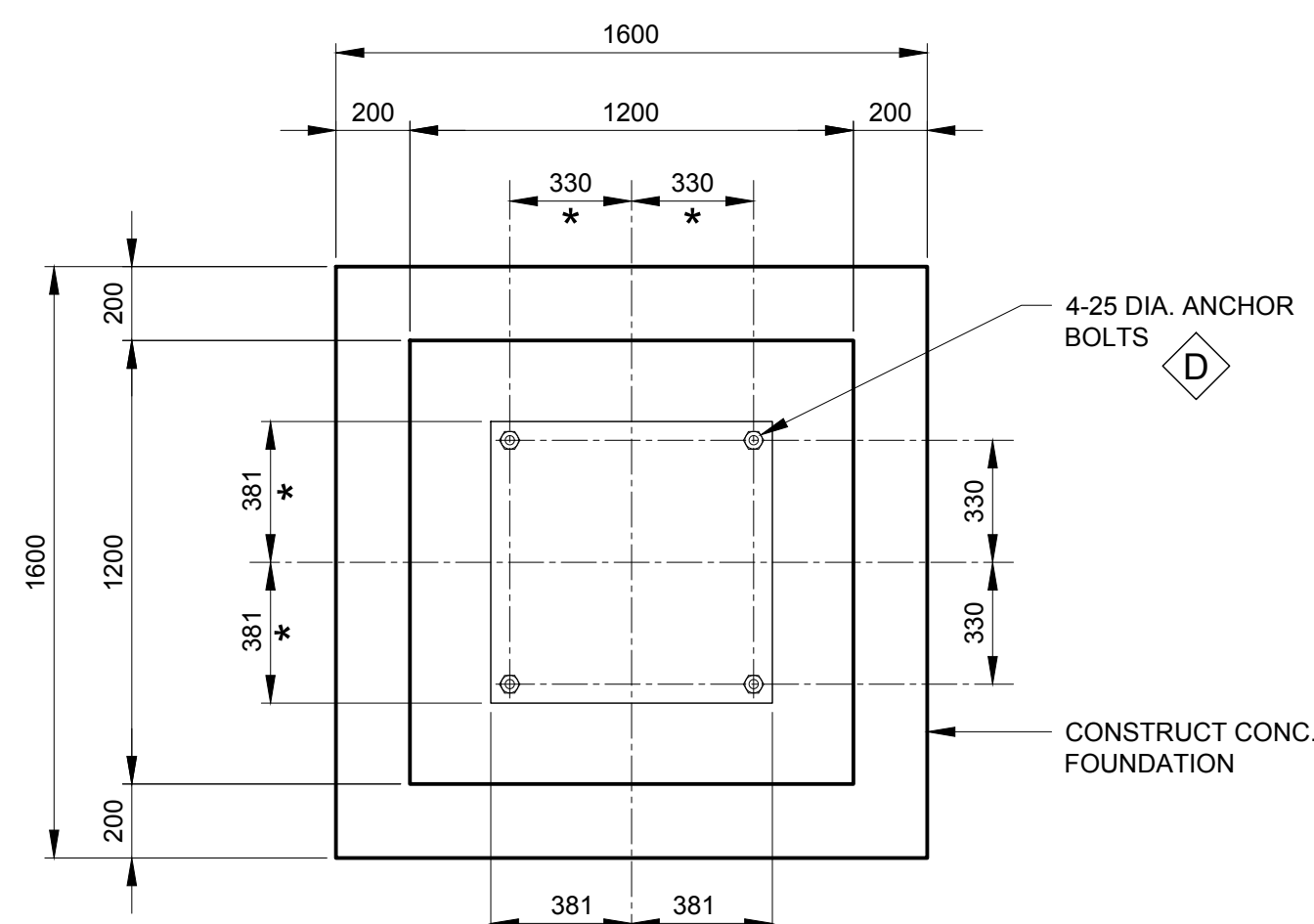
DATE: SEPT 2018 DATE: SEPT 2018

LOCATION:
BAYFIELD ONTARIO

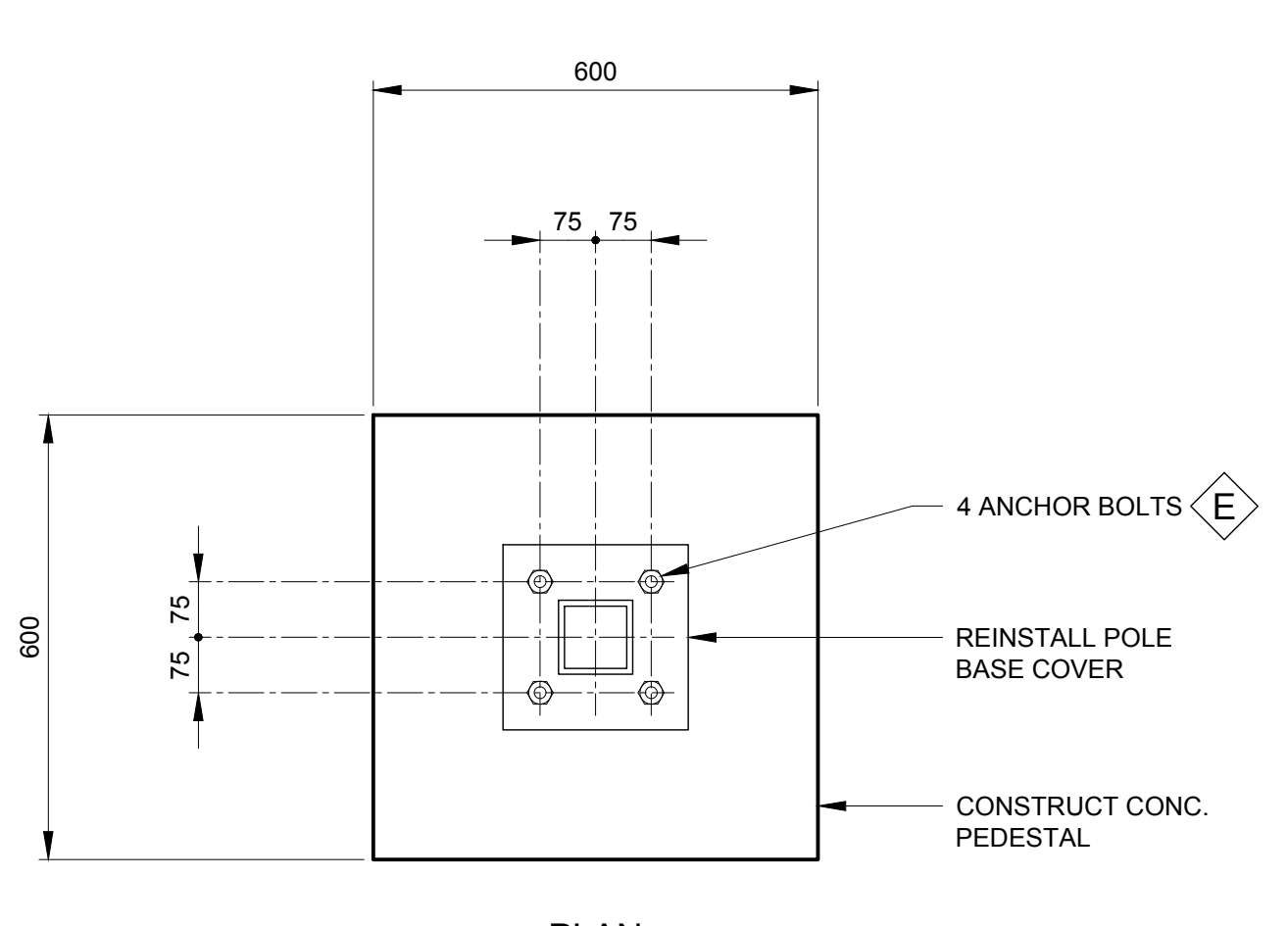
DRAWING NO.: S-004 LOCATOR CODE: 4516



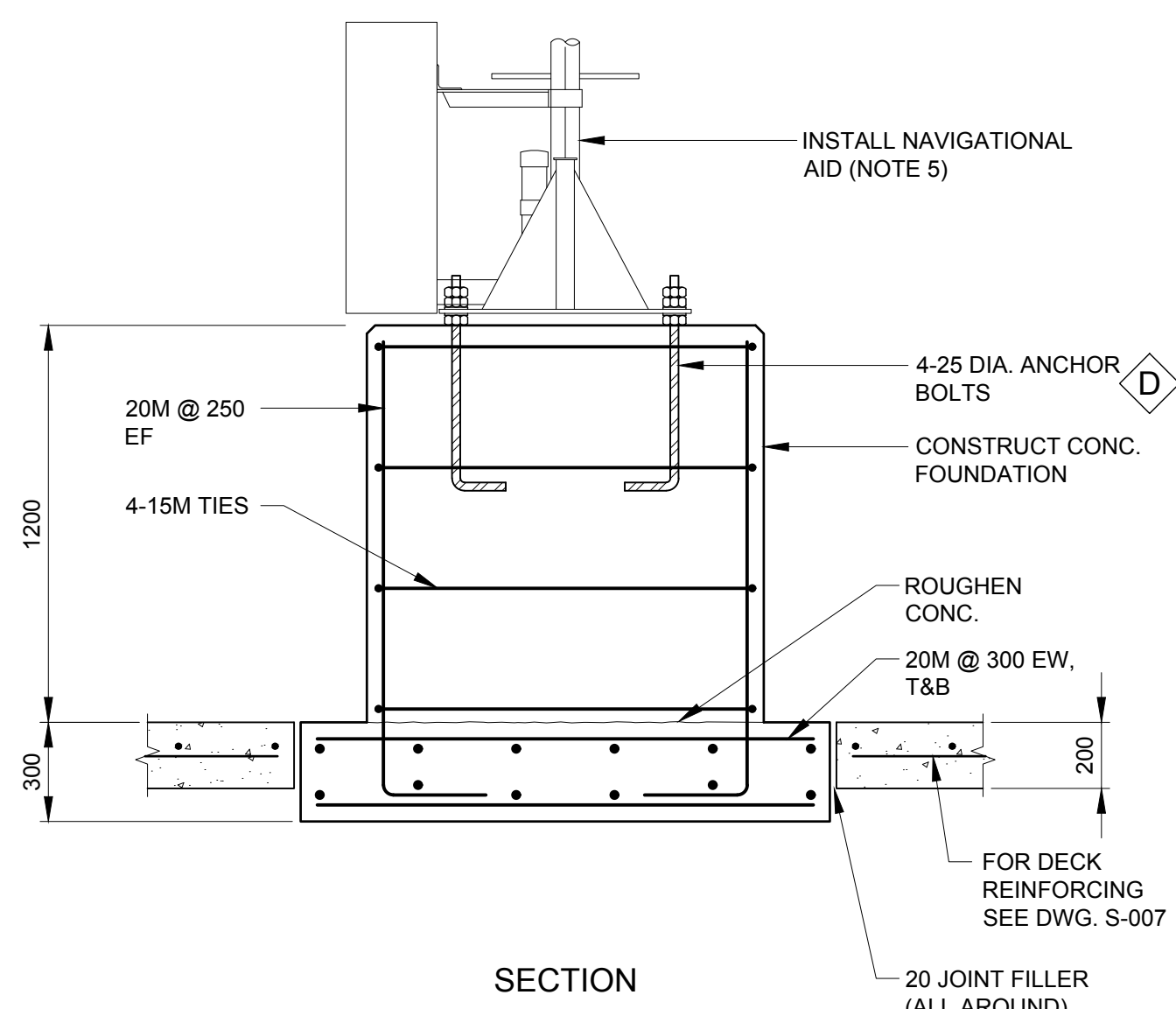
PARTIAL PLAN SOUTH PIER
 1: 150 (FULL SIZE)
 1: 300 (REDUCED)



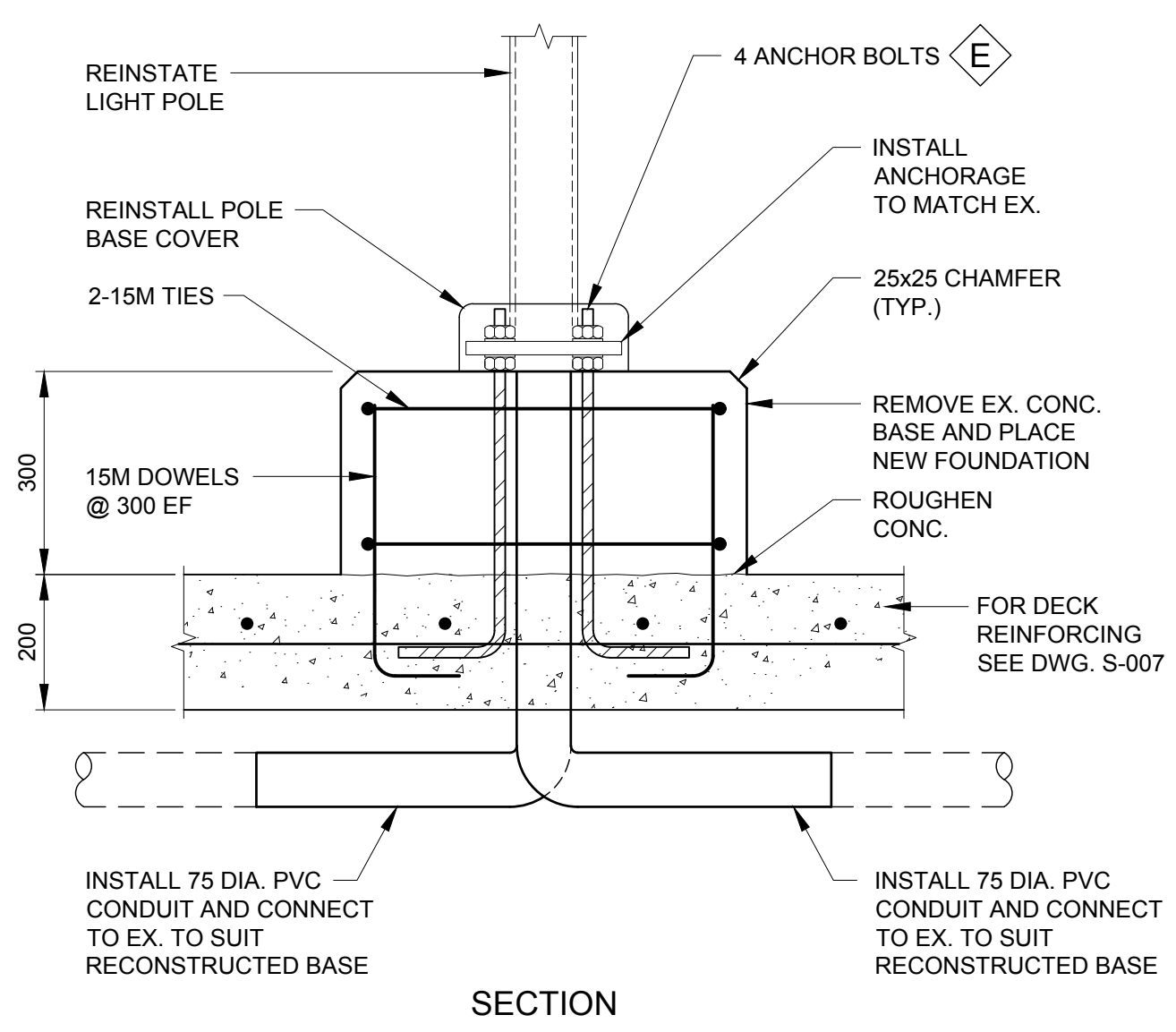
PLAN
 * DIMENSIONS TO BE CONFIRMED WITH MANUFACTURER



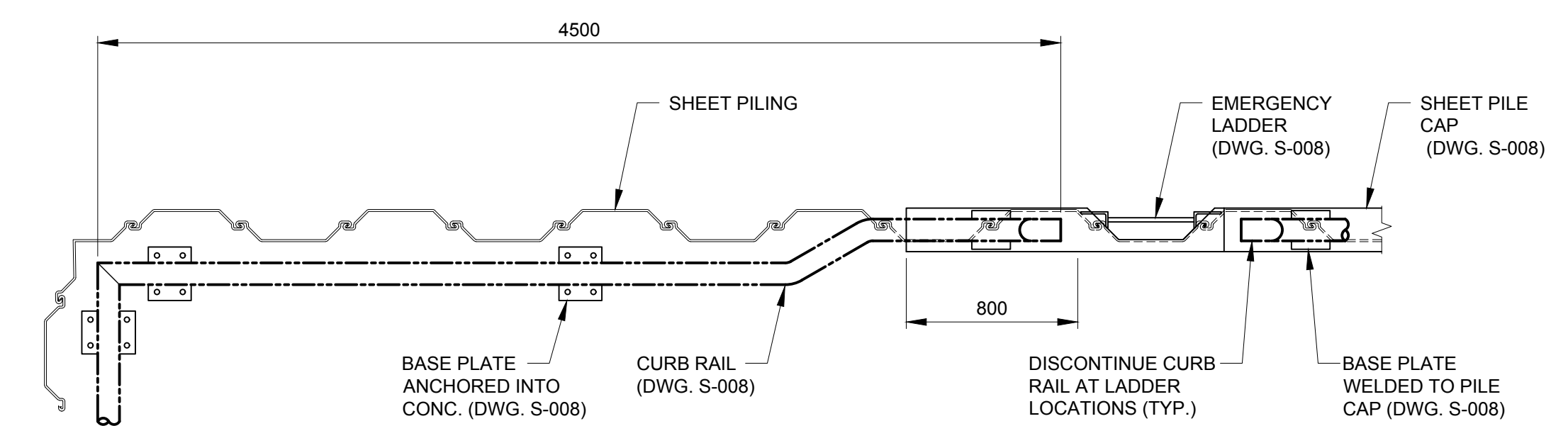
PLAN
 REINSTALL POLE BASE COVER
 CONSTRUCT CONC. PEDESTAL



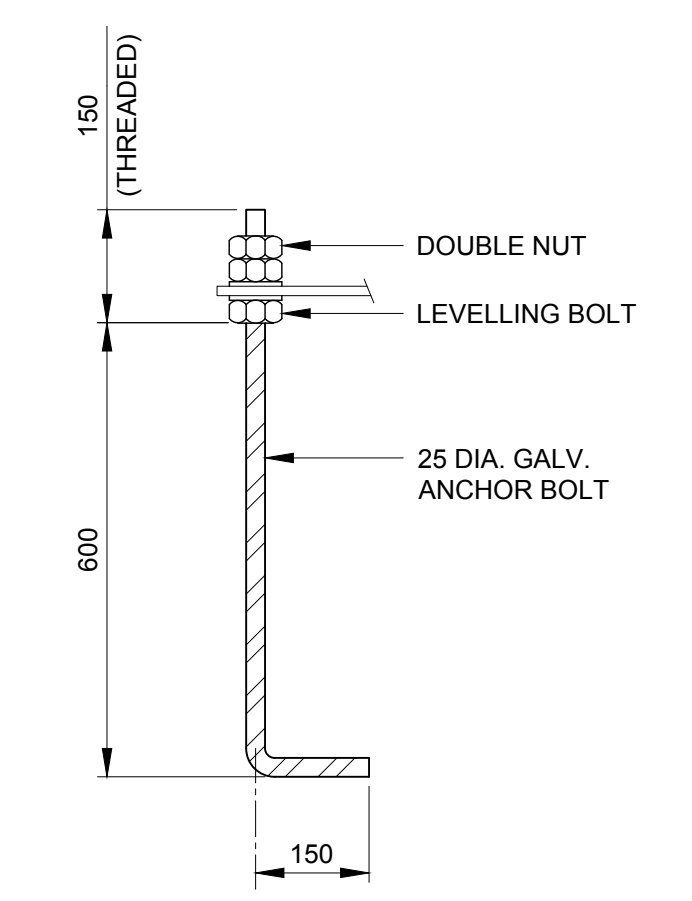
A NAVIGATIONAL AID
 (1 TOTAL)
 1: 20



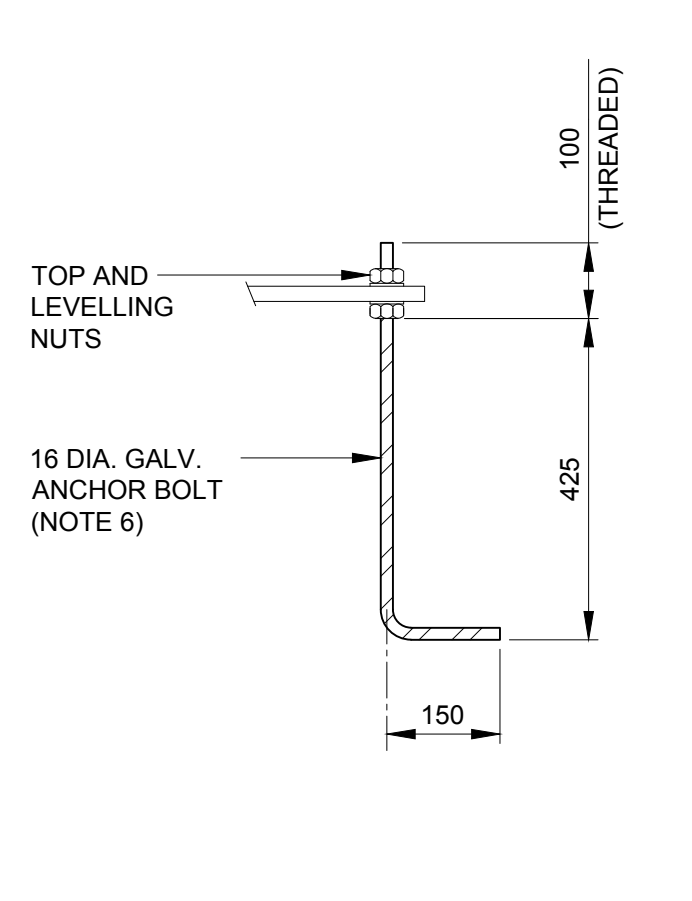
B LIGHT STANDARDS
 (3 TOTAL)
 1: 10



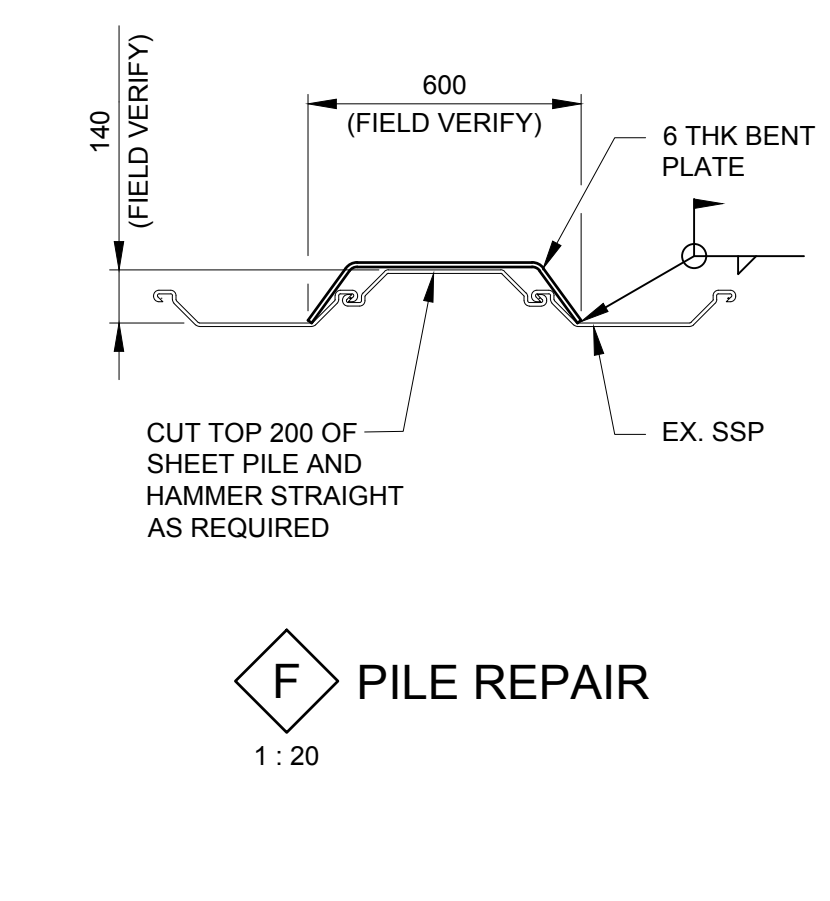
PARTIAL PLAN CURB RAIL
 1:25



D ANCHOR BOLTS FOR NAVIGATION AID
 (4 TOTAL)
 1: 10



E ANCHOR BOLTS FOR LIGHT STANDARD
 (12 TOTAL)
 1: 10



F PILE REPAIR
 1: 20

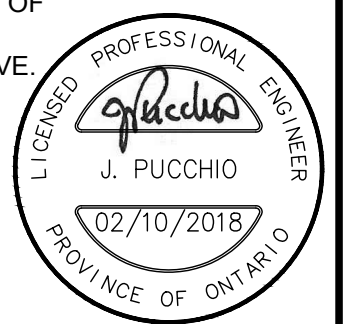


**SMALL CRAFT HARBOURS
 CENTRAL AND ARCTIC REGION**



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- NOTES:**
- FOR NOTES, ABBREVIATIONS AND LEGENDS SEE DRAWING S-001.
 - DECK WIDTH INDICATED ON PLANS ARE TO INSIDE FACES OF SSP.
 - TOP OF SLAB SHALL HAVE A ROUGH BROOM FINISH.
 - MANUAL SCREED DECK FROM CENTRE TO EXISTING EDGE OF STEEL SHEET PILE.
 - SOLAR POWERED NAVIGATIONAL AID WILL BE SUPPLIED TO THE SITE. PRIOR TO CONSTRUCTING THE CONCRETE BASE, CONFIRM THE ANCHORAGE TEMPLATE.
 - CONFIRM SIZE OF EXISTING LIGHT STANDARD ANCHORAGE PRIOR TO SUPPLY.
 - RE-ENERGIZE LIGHTING FOLLOWING INSTALLATION OF POLES.
 - COORDINATE ACTUAL LOCATION OF BOLLARDS WITH THE DEPARTMENTAL REPRESENTATIVE.



REVISION:		
No.	REVISIONS	DATE
0	ISSUED FOR TENDER	10/02/2018

SCALE: AS NOTED CLASS:

PROJECT:
**SMALL CRAFT HARBOURS
 CENTRAL AND ARCTIC REGION
 BAYFIELD, ONTARIO**
 SOUTH PIER REPAIRS

DESCRIPTION:
**SOUTH PIER (WEST END)
 REHABILITATED PLAN - 1**

DRAWN: T.G.	APPROVED: J.P.
DATE: SEPT 2018	DATE: SEPT 2018

LOCATION:
BAYFIELD ONTARIO

DRAWING NO.: S-005	LOCATOR CODE: 4516
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DRAWING FILE: P:\60577485 DFO - Bayfield South Pier\900-CAD_GIS\910-CAD\20-SHEETS\S\60577485-SHT-30-S-005
 DATE: 10/13/2018 9:14:43 AM

SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



AECOM

London, Ontario
519.673.0510

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- NOTES:
- FOR NOTES, ABBREVIATIONS AND LEGENDS SEE DRAWING S-001.
 - DECK WIDTH INDICATED ON PLANS ARE TO INSIDE FACES OF SSP.
 - TOP OF SLAB SHALL HAVE A ROUGH BROOM FINISH.
 - MANUAL SCREED DECK FROM CENTRE TO EXISTING EDGE OF STEEL SHEET PILE. FORM SOUTH EDGE OF DECK FROM STA. 0+88.7 TO STA. 0+122.9.
 - RE-ENERGIZE LIGHTING FOLLOWING INSTALLATION OF POLES.
 - HOT DIP GALVANIZE ALL COMPONENTS OF THE STEEL BOLLARDS.
 - WHERE REQUIRED AND REQUESTED BY THE DEPARTMENTAL REPRESENTATIVE, REPAIR OPENINGS OR DETERIORATED STEEL SHEET PILING WITH 200x300x6mm PLATES FULLY WELDED AROUND PERIMETER (6 LOCATIONS TOTAL).



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SCALE:	CLASS:
AS NOTED	

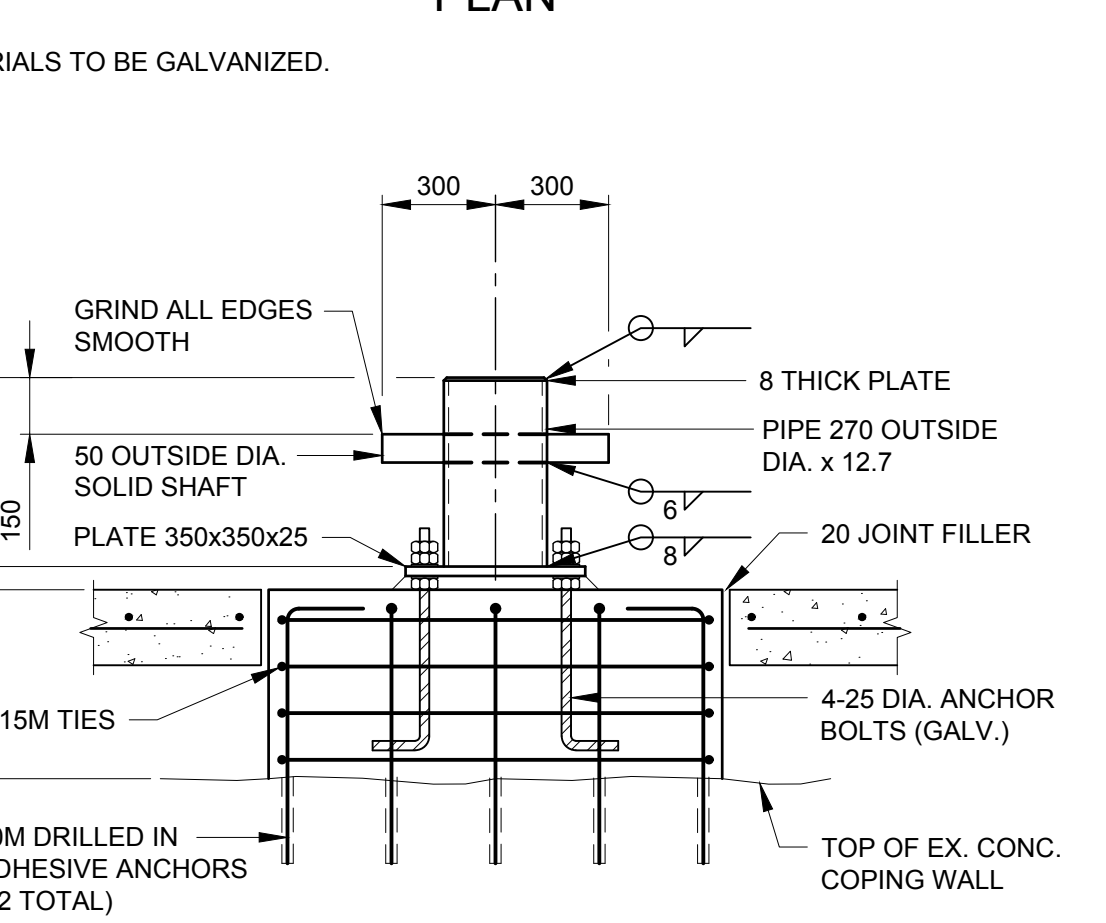
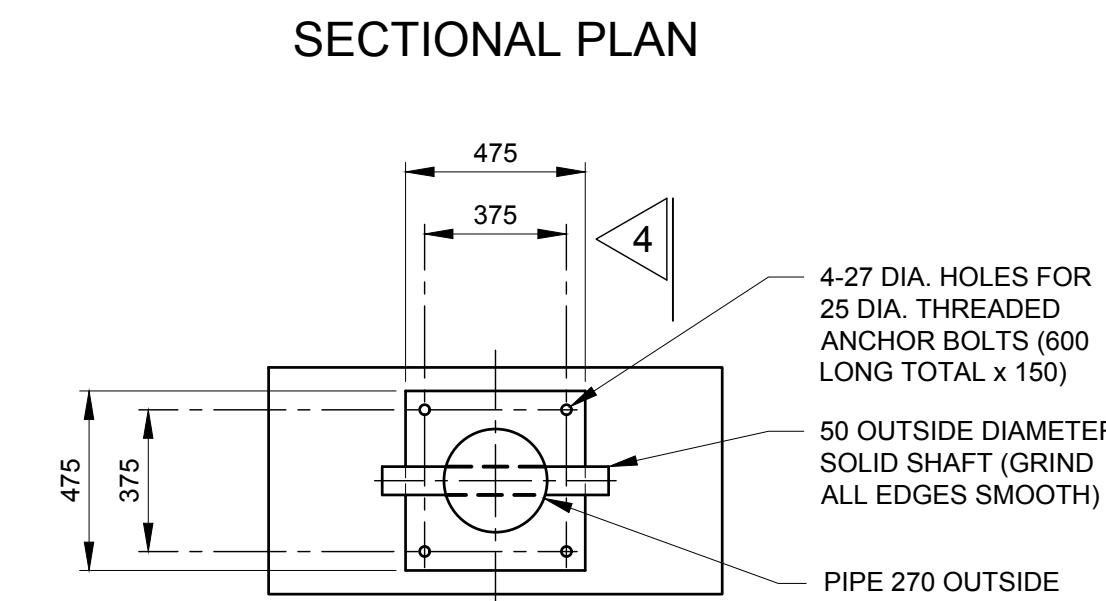
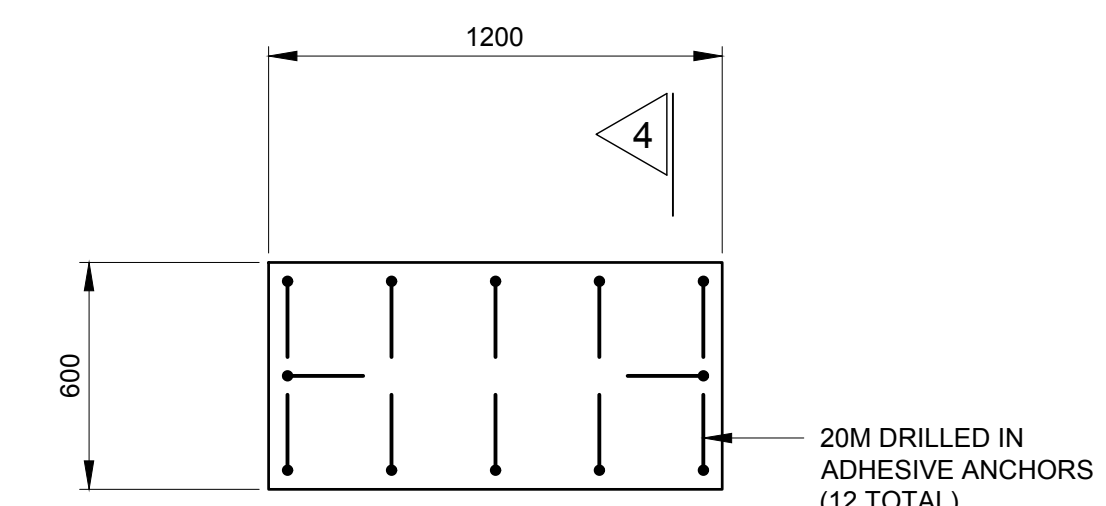
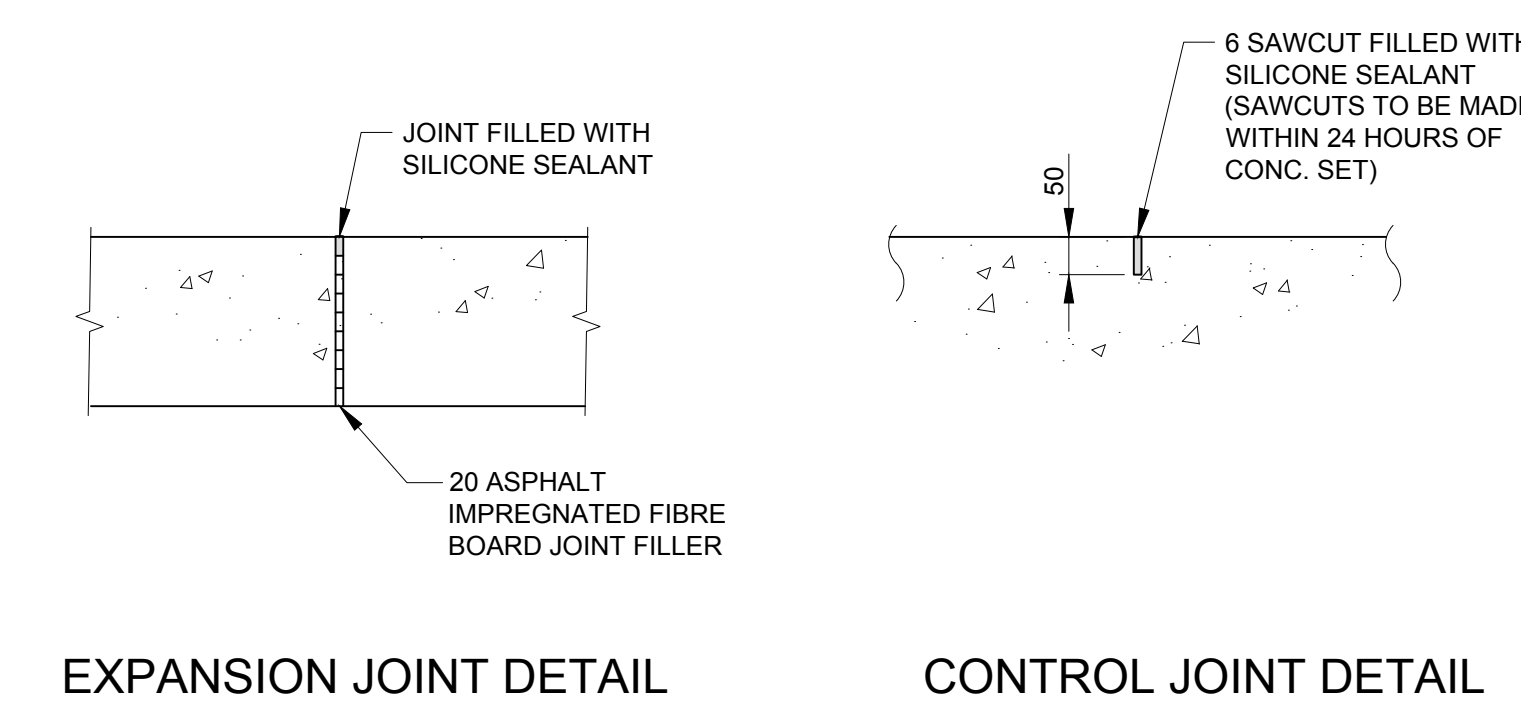
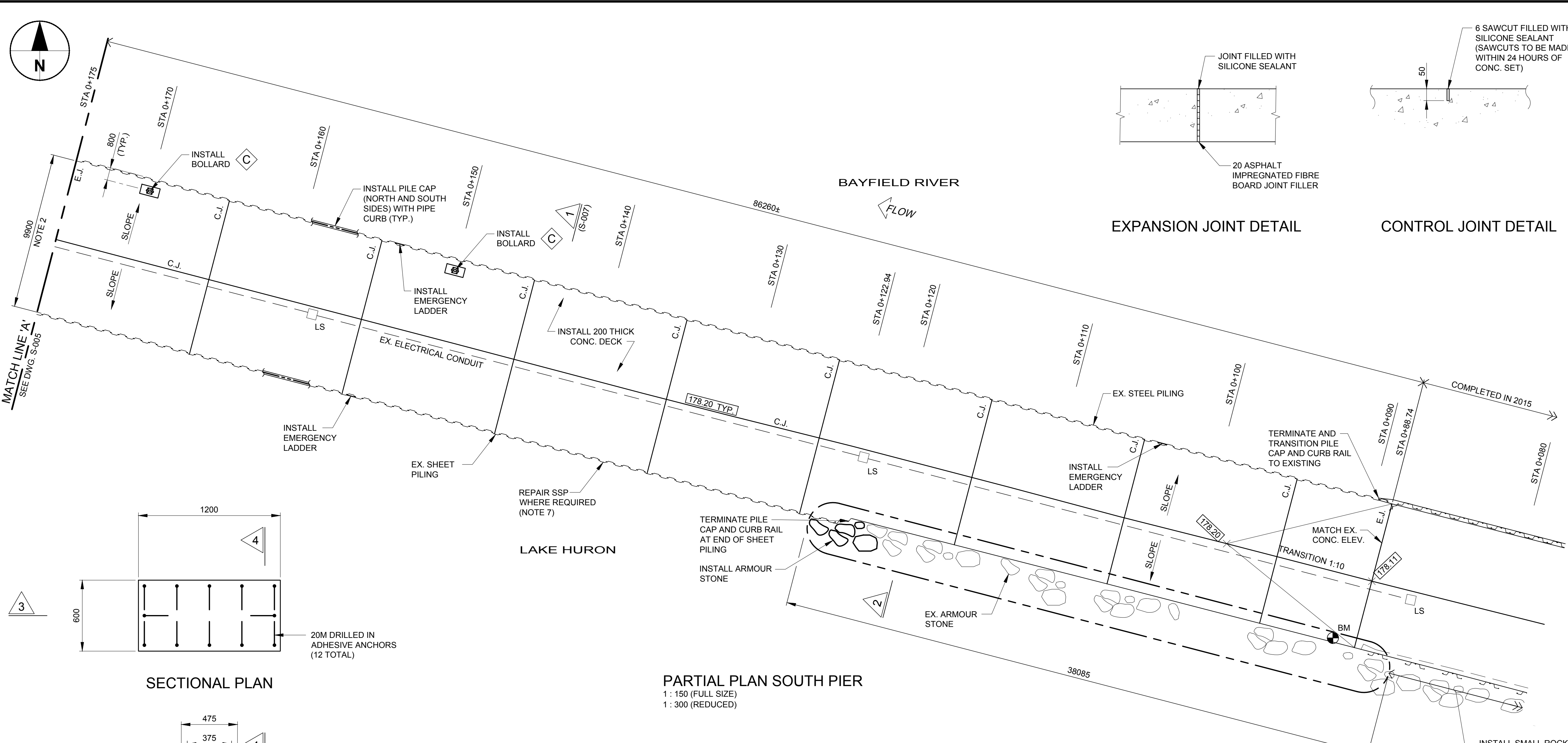
PROJECT:
SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION
BAYFIELD, ONTARIO
SOUTH PIER REPAIRS

DESCRIPTION:
SOUTH PIER (WEST END)
REHABILITATED PLAN - 2

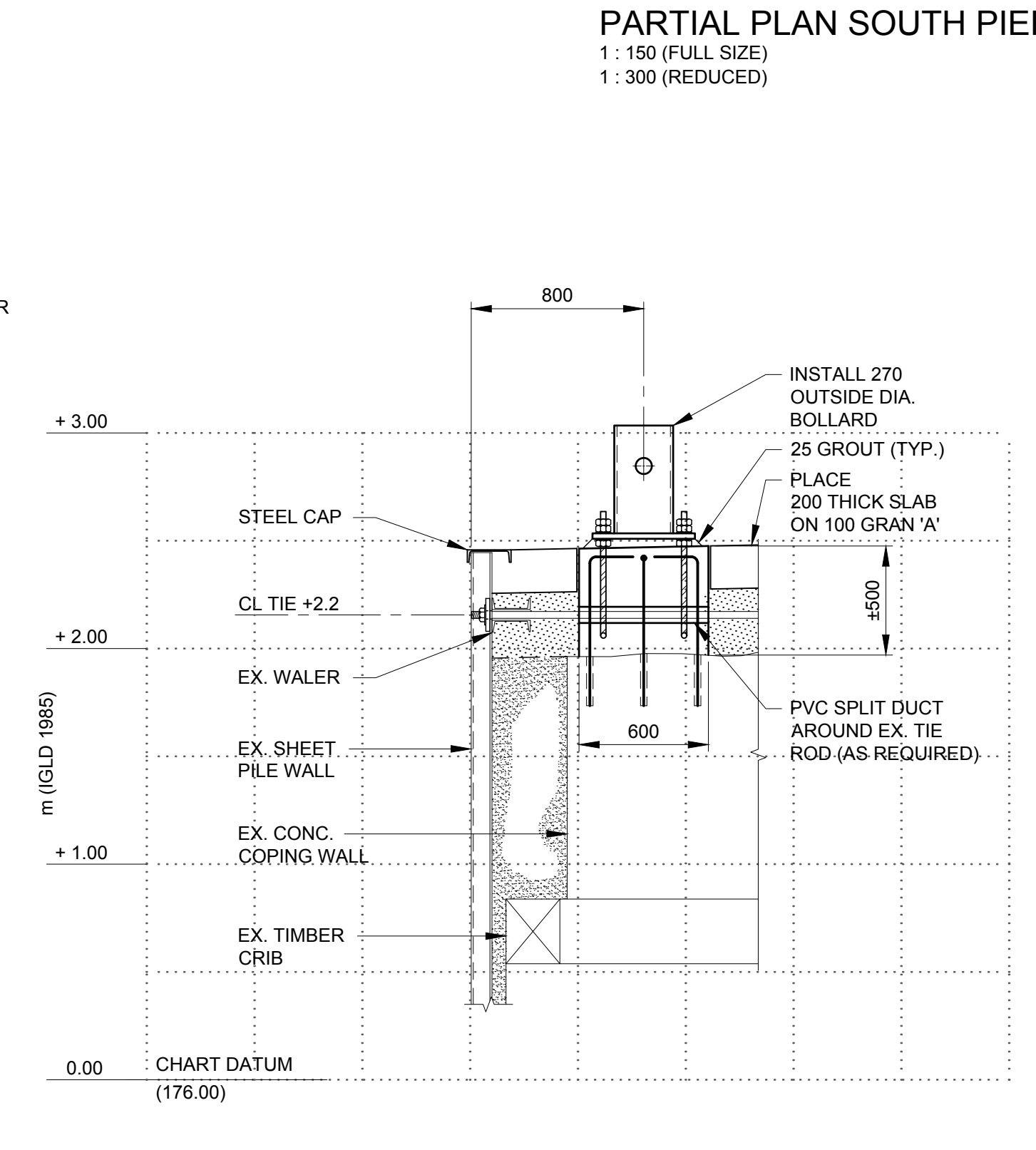
DRAWN:	APPROVED:
T.G.	J.P.
DATE:	DATE:
SEPT 2018	SEPT 2018

LOCATION:
BAYFIELD ONTARIO

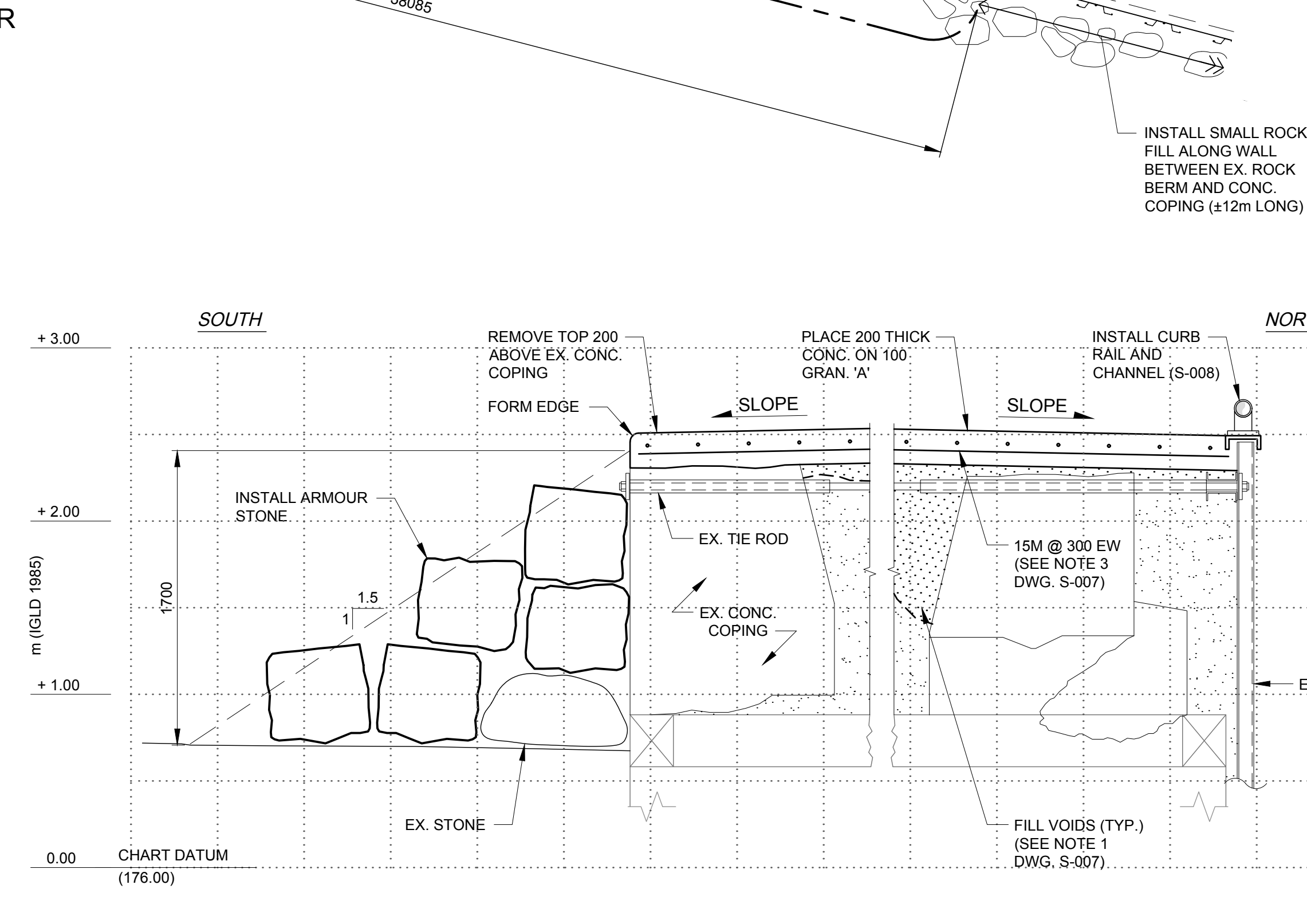
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S-006	4516



3 SECTION
1:20

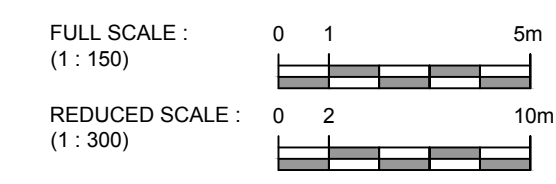


4 SECTION
1:25



2 SECTION
1:25

C BOLLARD DETAIL
(FOR LOCATION SEE DWG. S-005 AND S-006)
(3 TOTAL)



DATE: 10/13/2018 8:44:26 AM
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SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



AECOM

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519.673.0510

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NOTES:

- WHERE VOIDS IN FILL MATERIALS ARE OBSERVED, UNDERTAKE THE FOLLOWING: FILL WITH CLEAR STONE.
- TOP OF SLAB SHALL HAVE A ROUGH BROOM FINISH.
- PROVIDE BEND IN TRANSVERSE REINFORCING STEEL TO SUIT SLAB CROWN.
- SCREED ELEVATIONS OF CROWN ARE PROVIDED ON DRAWINGS S-005 AND S-006. CONCRETE ELEVATION ALONG PERIMETER TO MATCH EXISTING STEEL SHEET PILING (WITH PILE CAP MODIFICATION).
- THE TYPICAL SECTION IS SIMILAR FOR STA. 0+088.7 TO STA. 122.9, EXCEPT THE SOUTH SIDE WHERE THE CONCRETE COPING EXTENDS TO THE UNDERSIDE OF EXISTING DECK SLAB (WITH NO SSP). REMOVE TOP 200mm ABOVE THE COPING, FORM AND RECONSTRUCT 200mm DECK ON COPING.



REVISION:		
No.	REVISIONS	DATE
0	ISSUED FOR TENDER	10/02/2018

SCALE:	CLASS:
AS NOTED	

PROJECT:
**SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION
BAYFIELD, ONTARIO**

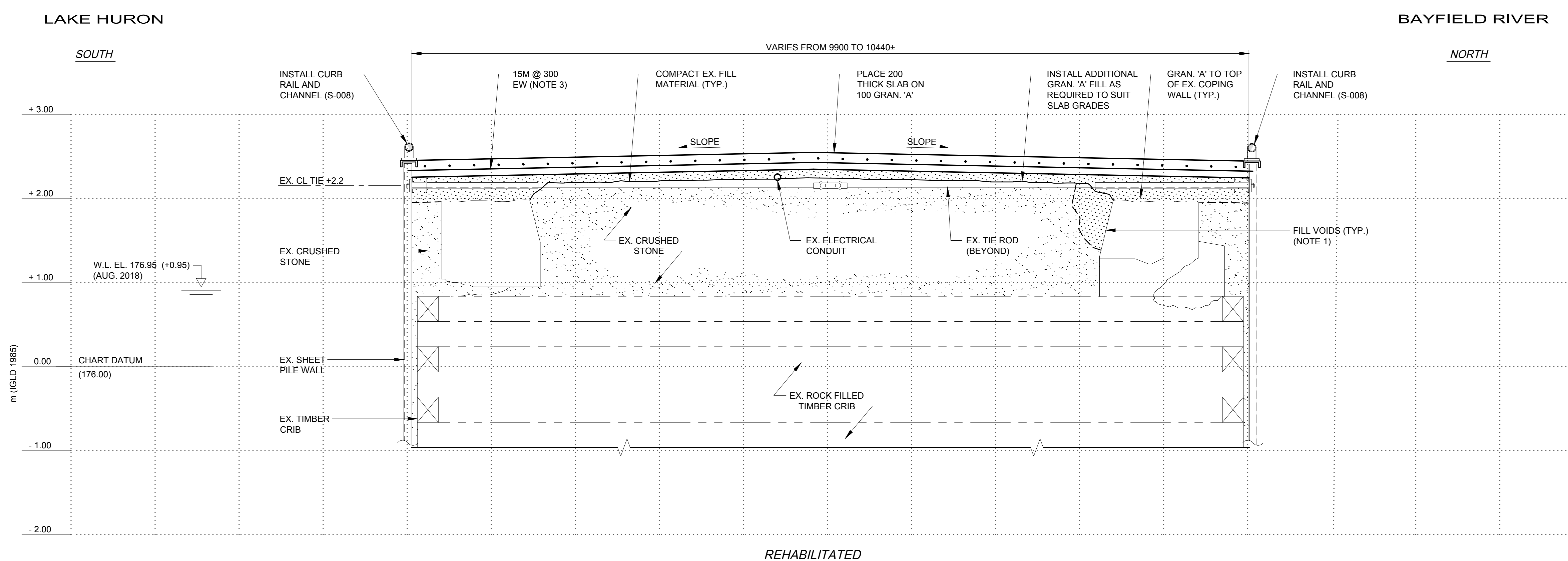
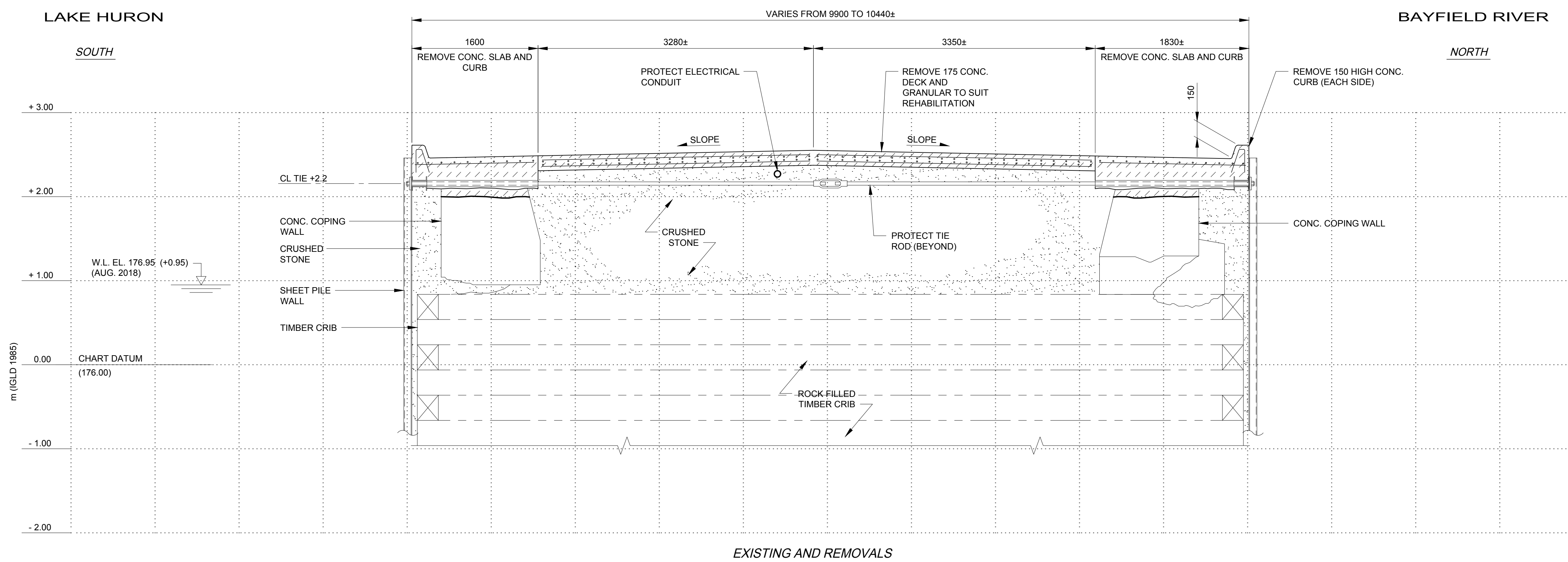
SOUTH PIER REPAIRS

DESCRIPTION:
**SOUTH PIER
SECTIONS**

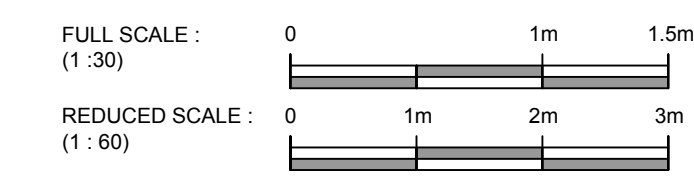
DRAWN:	APPROVED:
T.G.	J.P.
DATE:	DATE:
SEPT 2018	SEPT 2018

LOCATION:
BAYFIELD ONTARIO

DRAWING NO.:	LOCATOR CODE:
S-007	4516

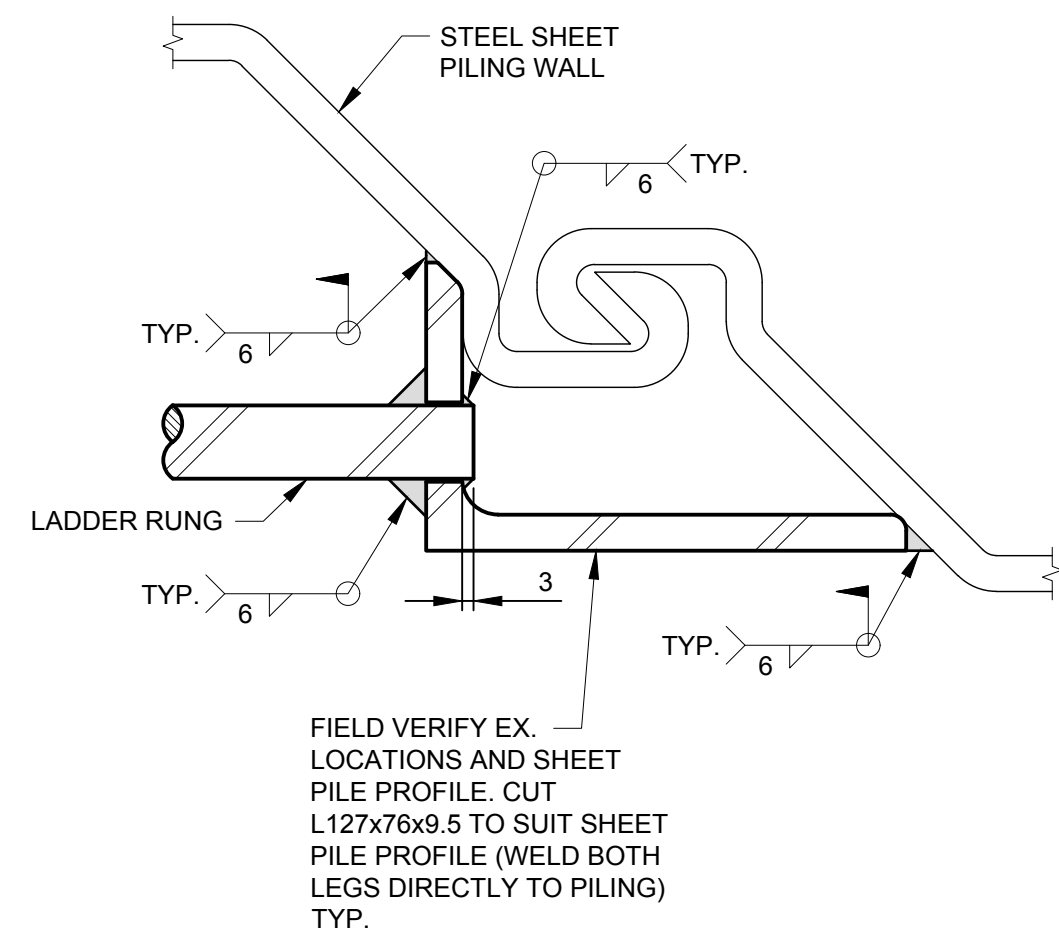
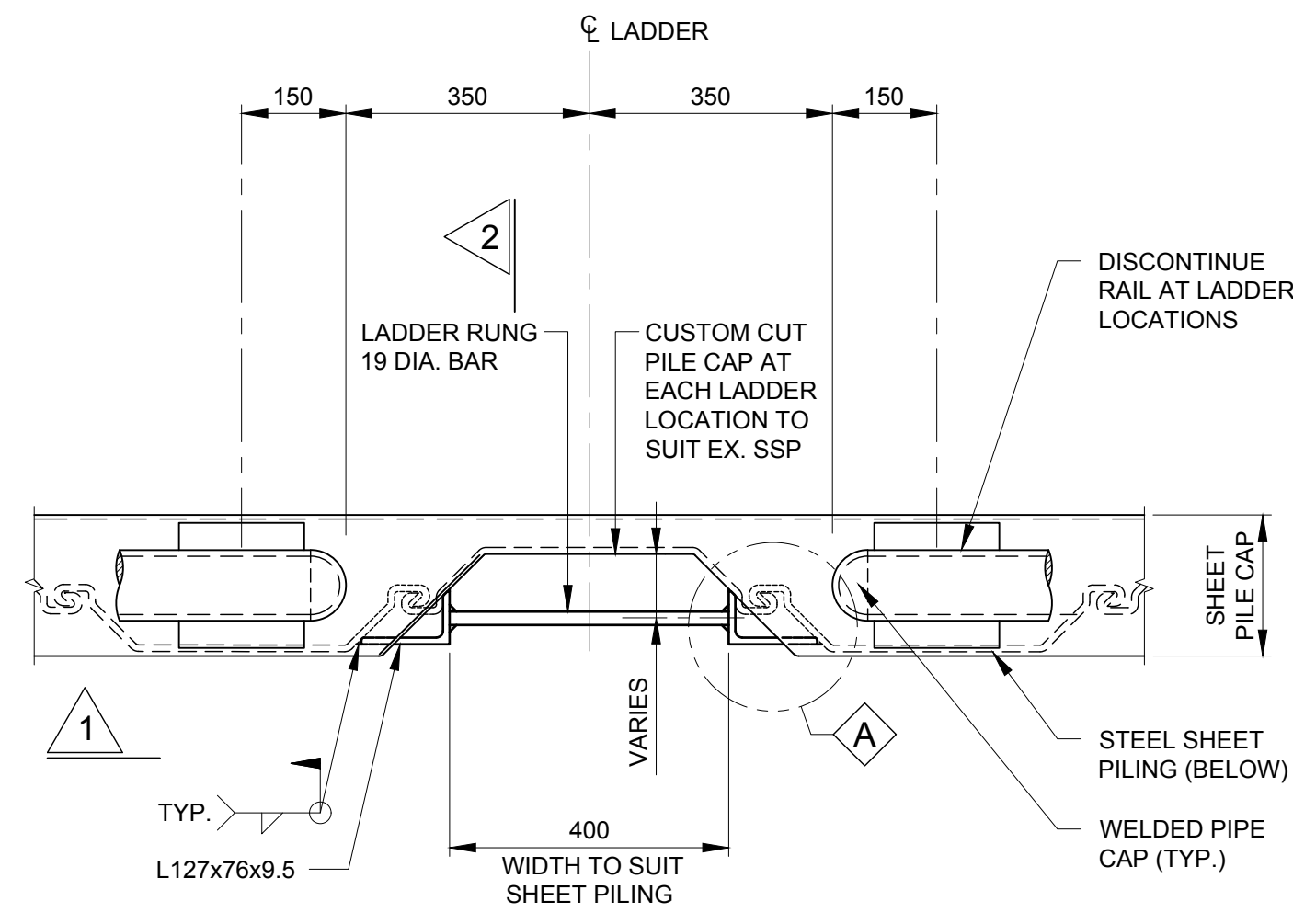


1 TYPICAL SECTION
1:30 (FULL SIZE)
1:60 (REDUCED)
(FOR LOCATION SEE DWG. S-003 AND S-006)

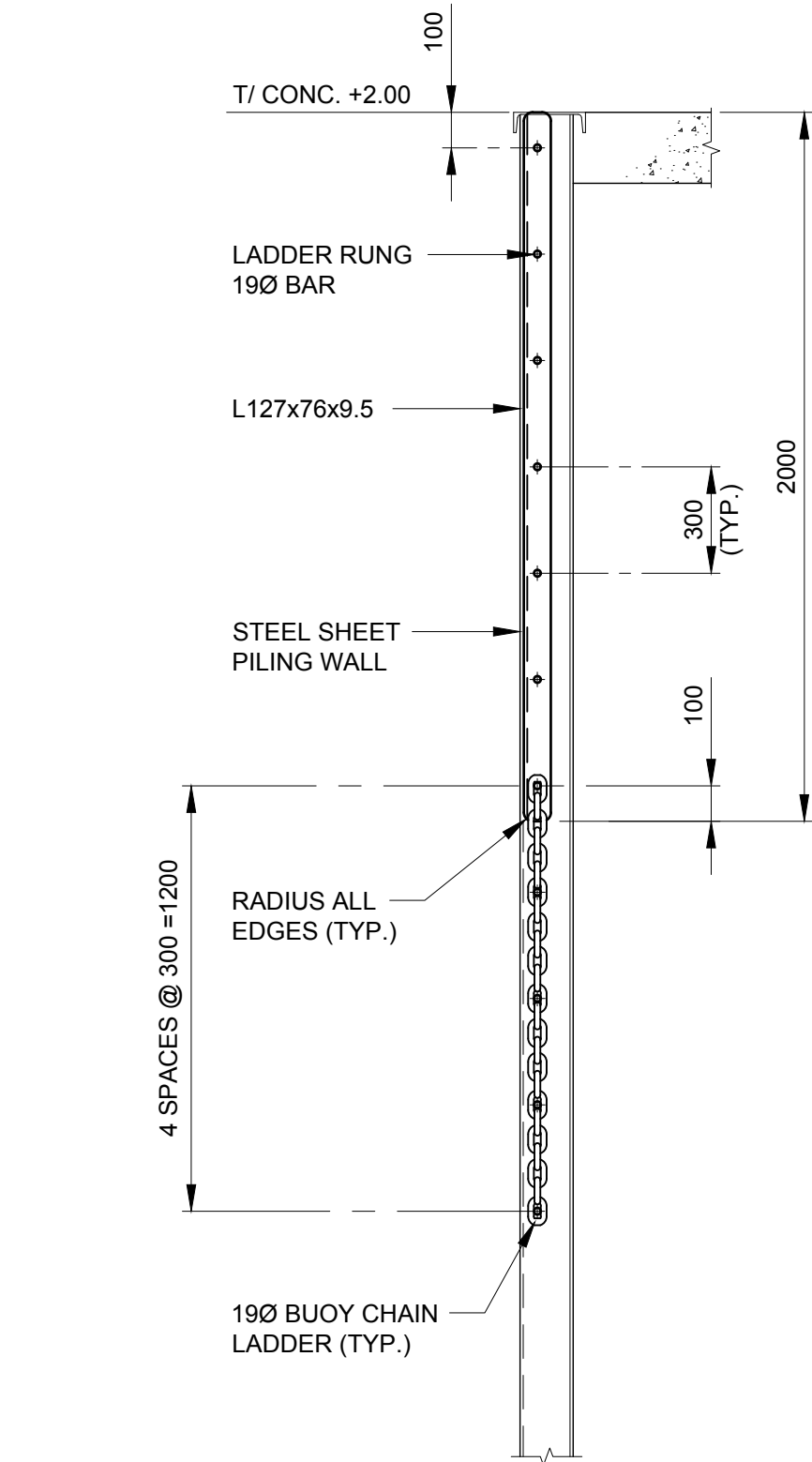
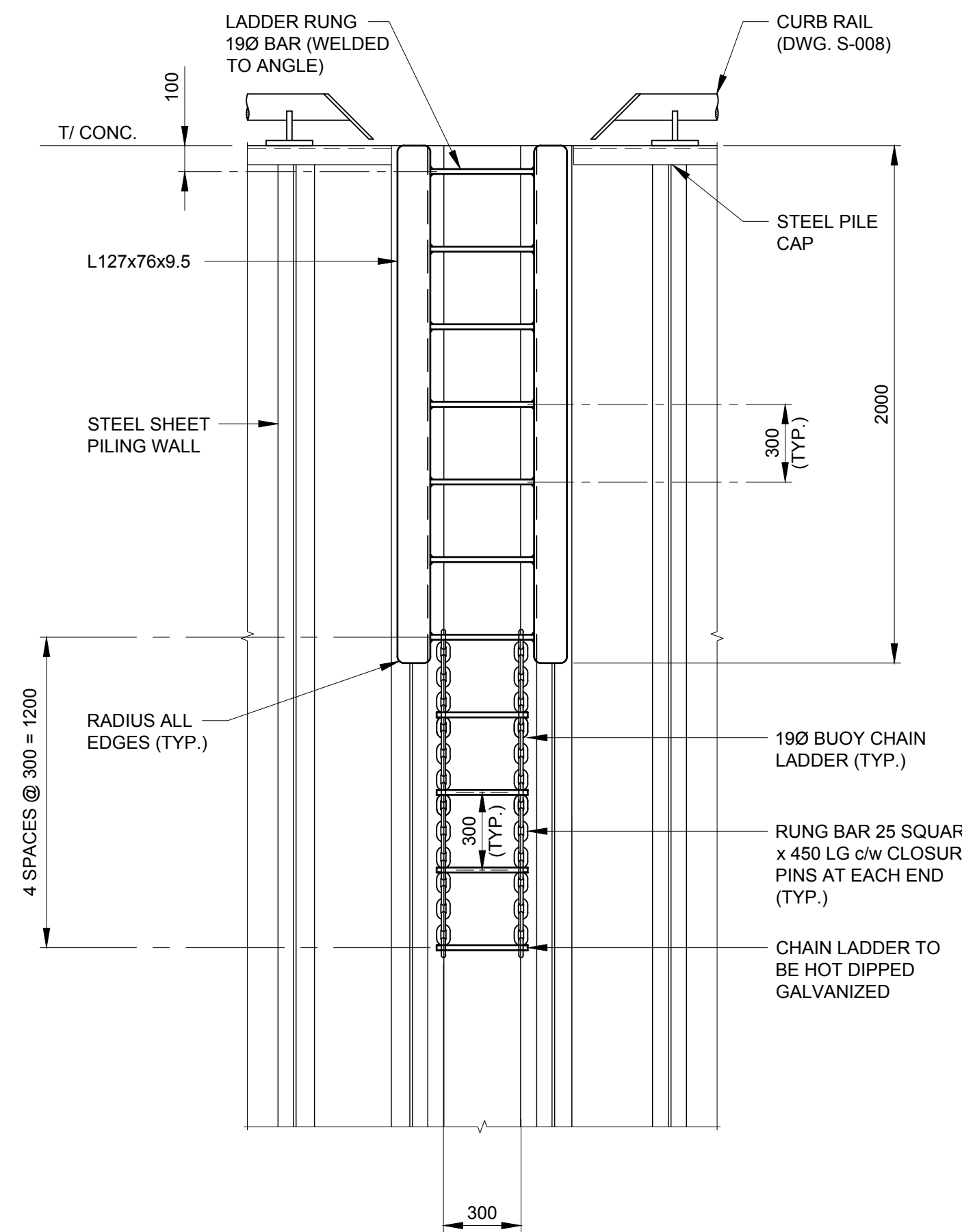


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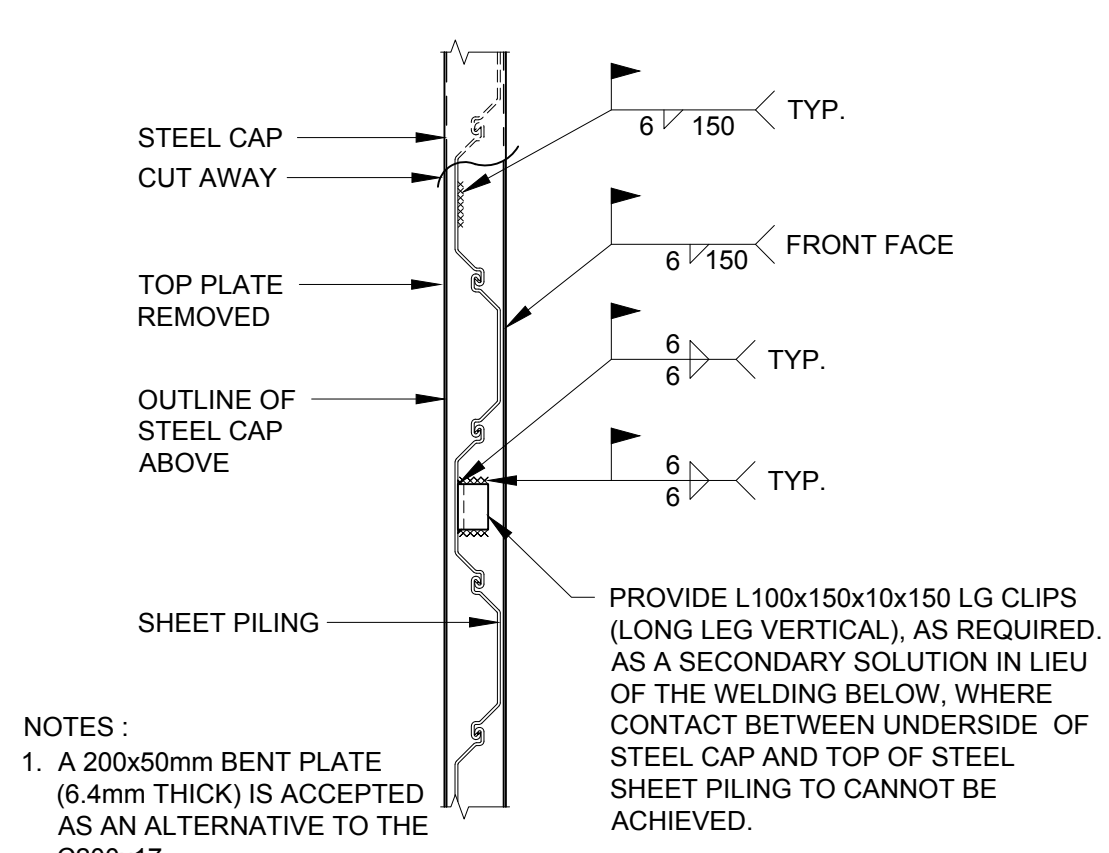
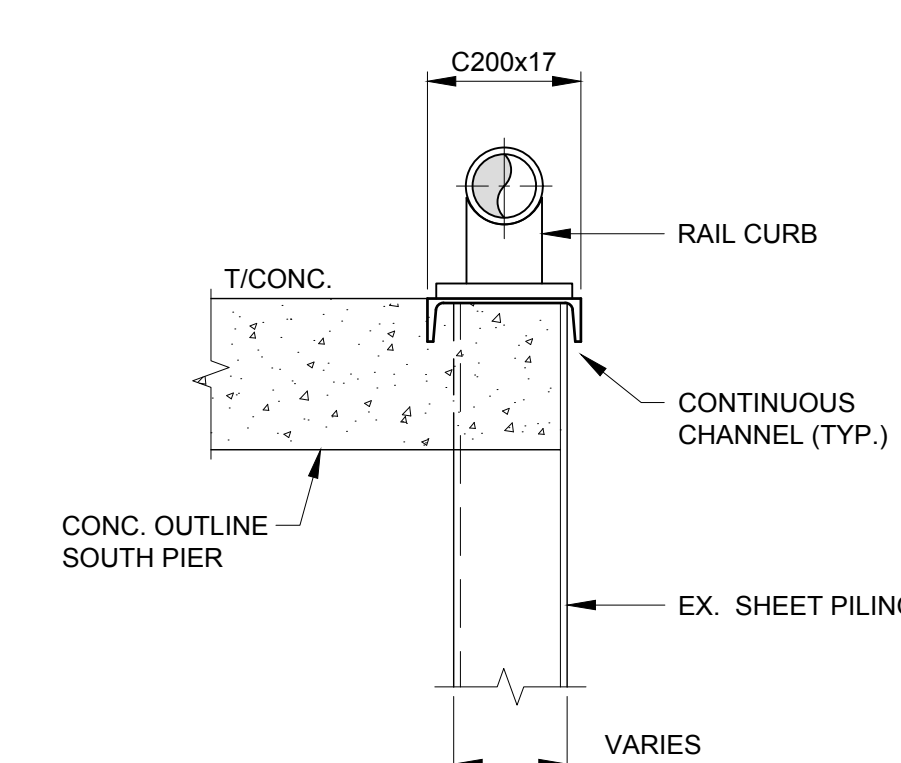
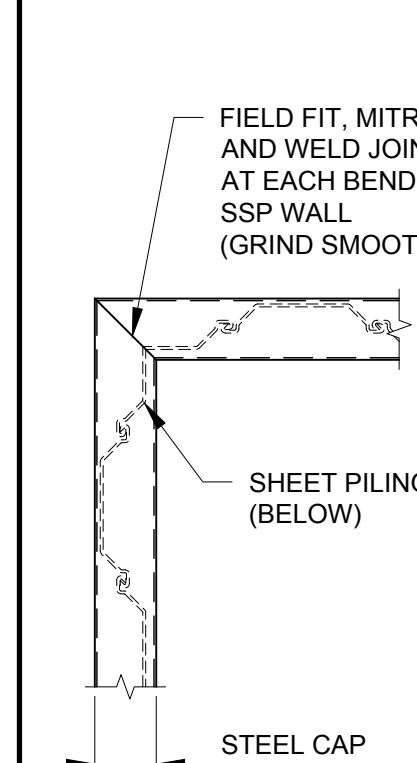
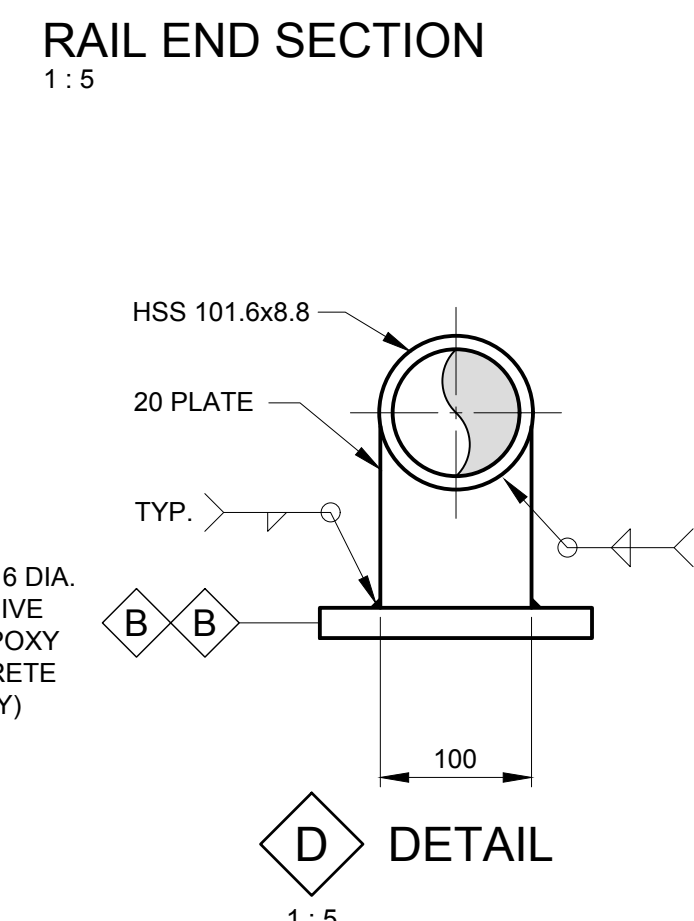
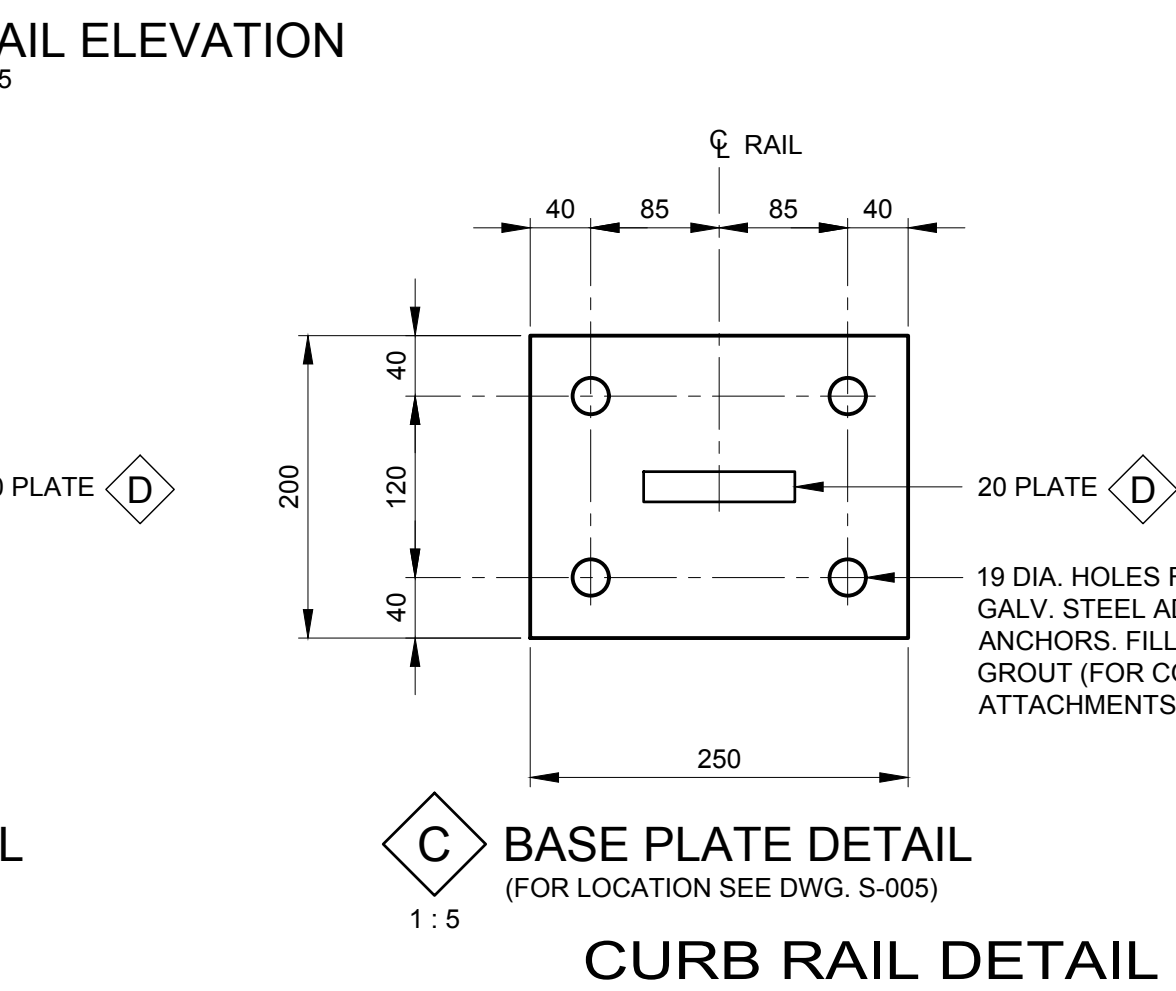
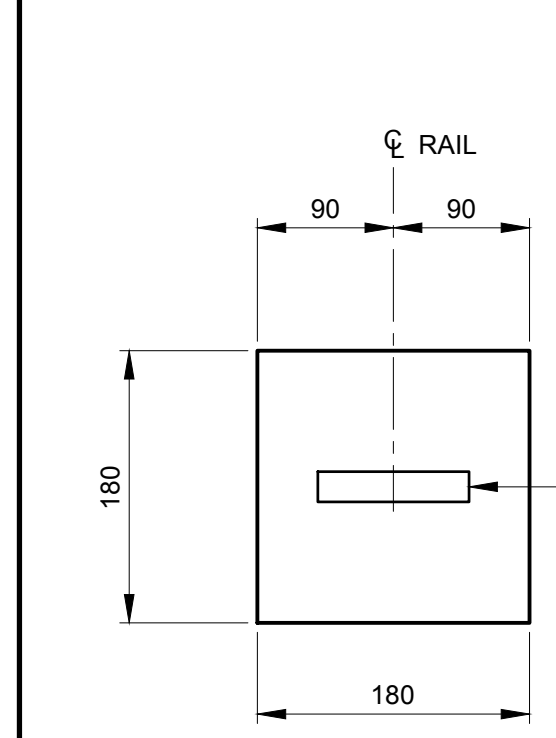
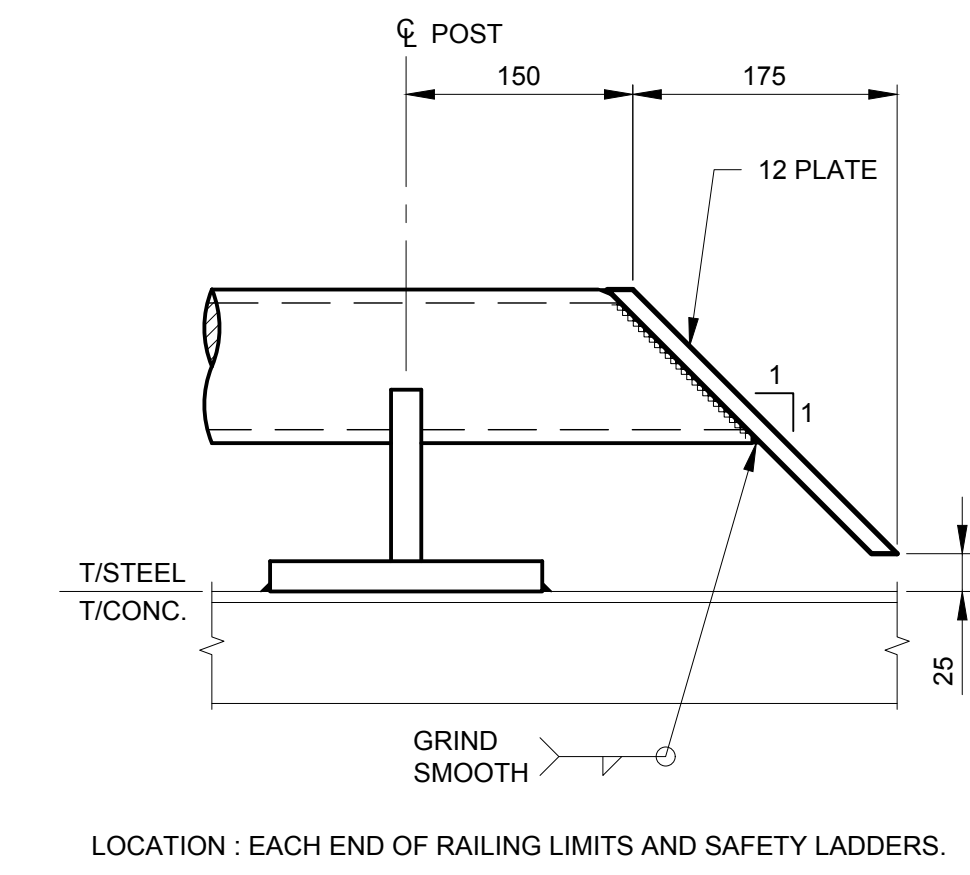
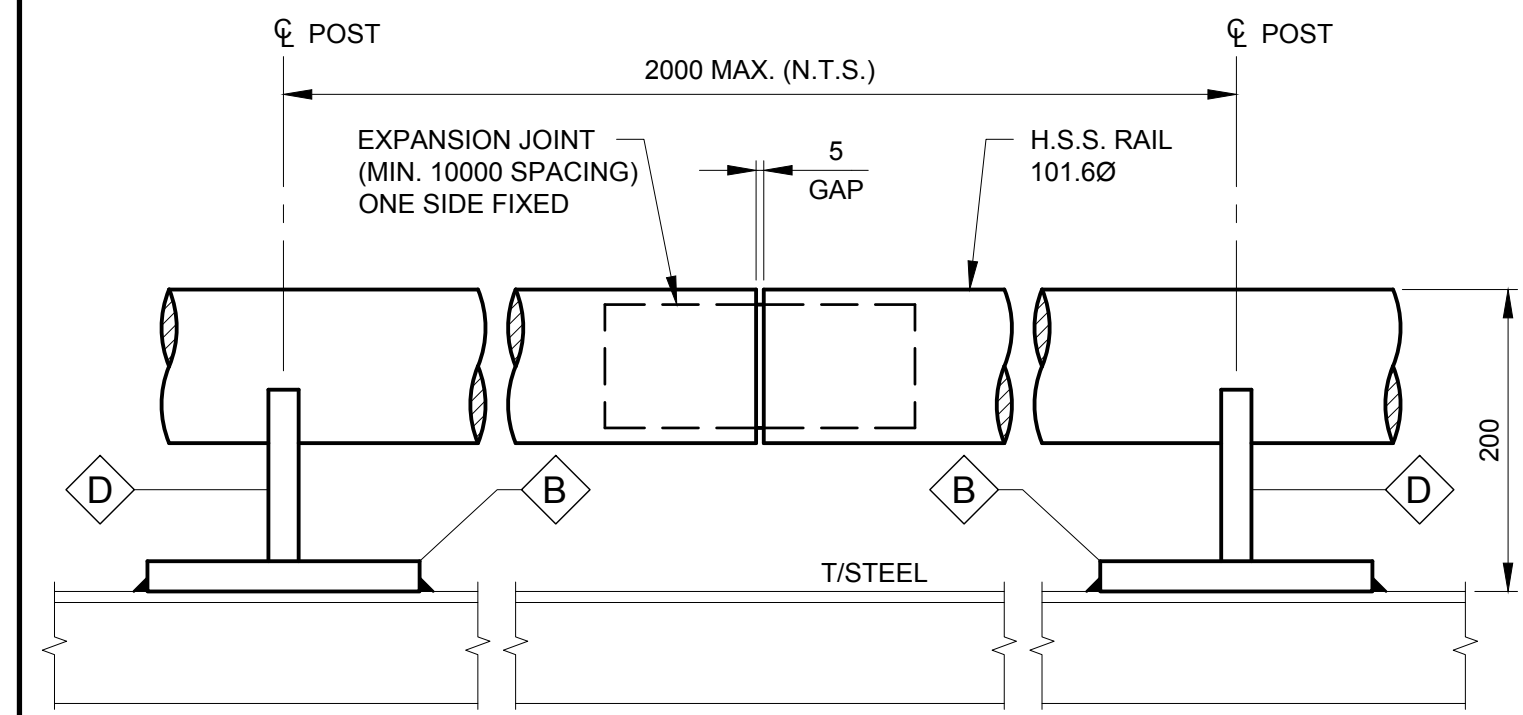
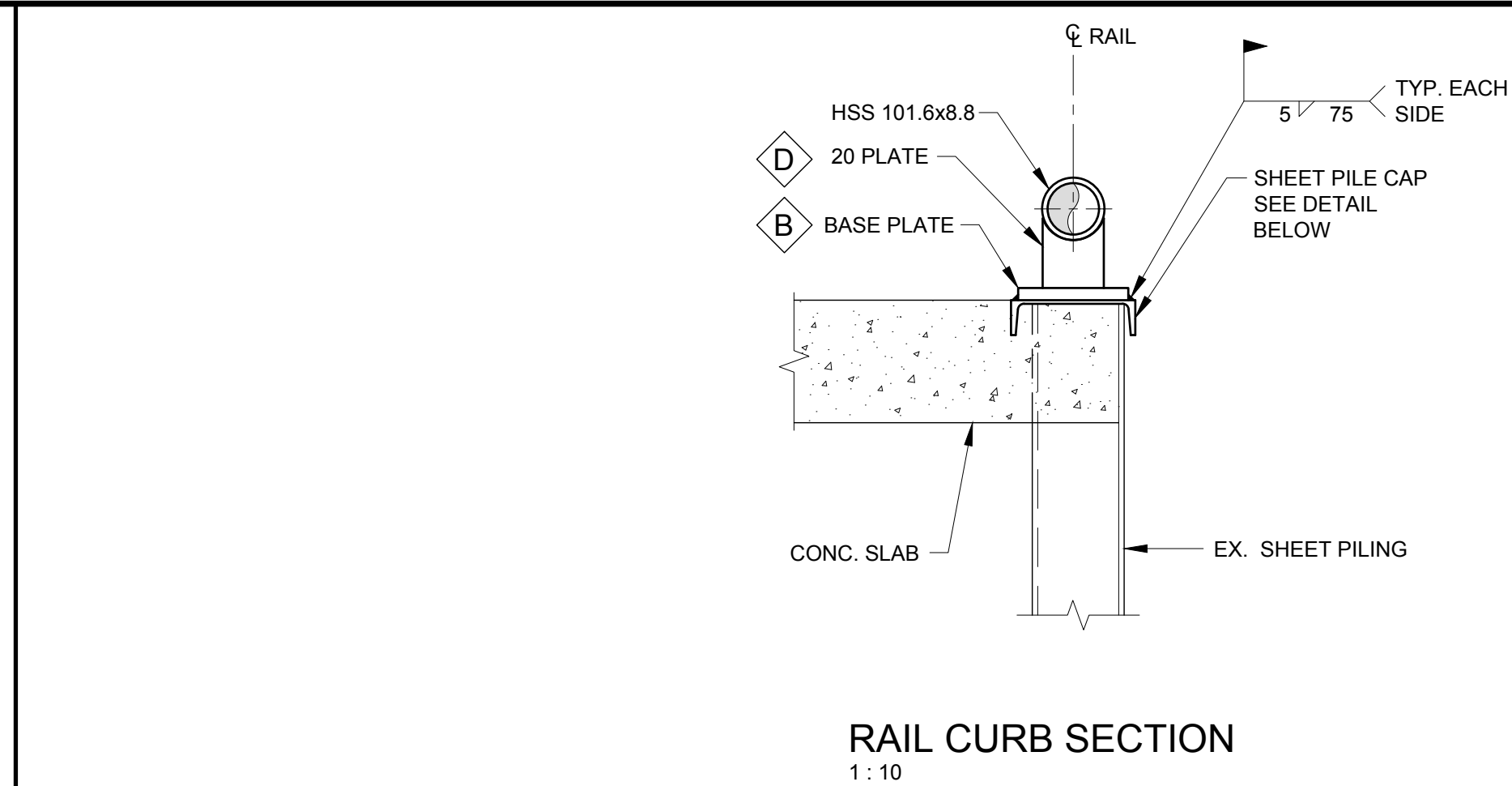
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- NOTES:
1. FIELD WELDING SHALL BE COMPLETED ABOVE EXISTING WATER LEVEL.
 2. HOT DIP GALVANIZE LADDER. FOR UPPER SECTION, SOLVENT CLEAN AND COAT OUTSIDE LEG WITH SAFETY YELLOW PAINTING COATING.



EMERGENCY LADDER DETAIL
(FOR LOCATION SEE DWG. S-005 AND S-006)



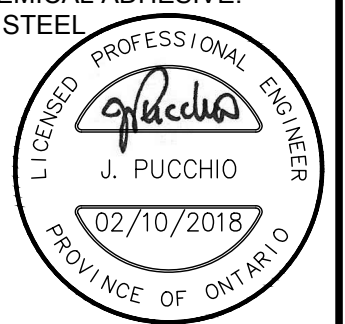
SHEET PILE CAP DETAIL
SCALE AS NOTED

**SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION**



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- NOTES:
1. FOR NOTES, ABBREVIATIONS AND LEGENDS SEE DRAWING S-001.
 2. STEEL CAP AND RAIL CURB SHALL RECEIVE AN EPOXY COATING (AS PER SPECIFICATIONS), TOUCH UP COATINGS FOLLOWING INSTALLATION.
 3. PRIOR TO FABRICATION OF THE CURB RAILING, THE CONTRACTOR SHALL UNDERTAKE DETAILED DIMENSIONING OF THE PIERS INCLUDING ALL ANGLE, BENDS AND LADDER LOCATIONS.
 4. CURB RAILING SHALL BE DISCONTINUOUS AT ALL SAFETY LADDER LOCATIONS.
 5. WHERE CURB RAIL IS ATTACHED DIRECTLY TO CONCRETE DECK, DRILL 19mm DIAMETER HOLES (125mm EMBEDMENT) AND FILL WITH CHEMICAL ADHESIVE. ANCHORS SHALL BE STAINLESS STEEL AND 16mm DIAMETER.



REVISION:		
No.	REVISIONS	DATE
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SCALE: AS NOTED CLASS:

PROJECT:
**SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION
BAYFIELD, ONTARIO**

SOUTH PIER REPAIRS

DESCRIPTION:
**MISCELLANEOUS
DETAILS**

DRAWN: T.G. APPROVED: J.P.

DATE: SEPT 2018 DATE: SEPT 2018

LOCATION:
BAYFIELD ONTARIO

DRAWING NO.: S-008 LOCATOR CODE: 4516