



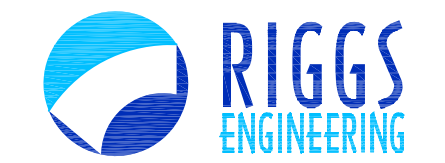
# WHITBY HARBOUR WHARF REPAIRS

## WHITBY, ONTARIO

### DRAWING INDEX:

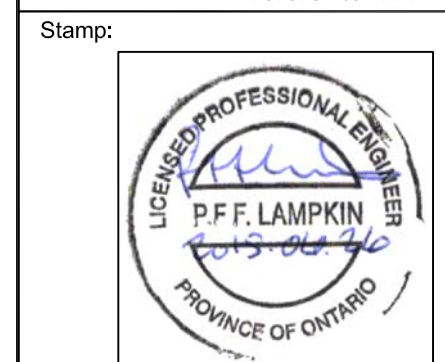
- S-00 - TITLE PAGE
- S-01 - EXISTING CONDITIONS, DEMOLITION AND REMOVALS
- S-02 - EAST SIDE EXISTING TYPICAL SECTIONS, DEMOLITION AND REMOVALS
- S-03 - WEST SIDE EXISTING TYPICAL SECTIONS, DEMOLITION AND REMOVALS
- S-04 - TYPICAL EXISTING DETAILS, DEMOLITION AND REMOVALS
- S-05 - SITE PLAN OF TYPICAL REPAIR DETAILS
- S-06 - TYPICAL REPAIR DETAILS
- S-07 - TYPICAL LADDER REPAIR DETAILS
- S-08 - TYPICAL REPAIR DETAILS
- S-09 - SITE PLAN OF NEW SCOUR MAT LOCATIONS
- S-10 - NEW SCOUR MAT TYPICAL SECTIONS

SMALL CRAFT HARBOURS  
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- 3 drawing no. - where detailed refers to MA-



NOTES:

REVISIONS:	DATE:

SCALE: <b>AS NOTED</b>	CLASS:
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PROJECT:  
**WHITBY HARBOUR WHARF REPAIRS**

DESCRIPTION:  
**TITLE PAGE**

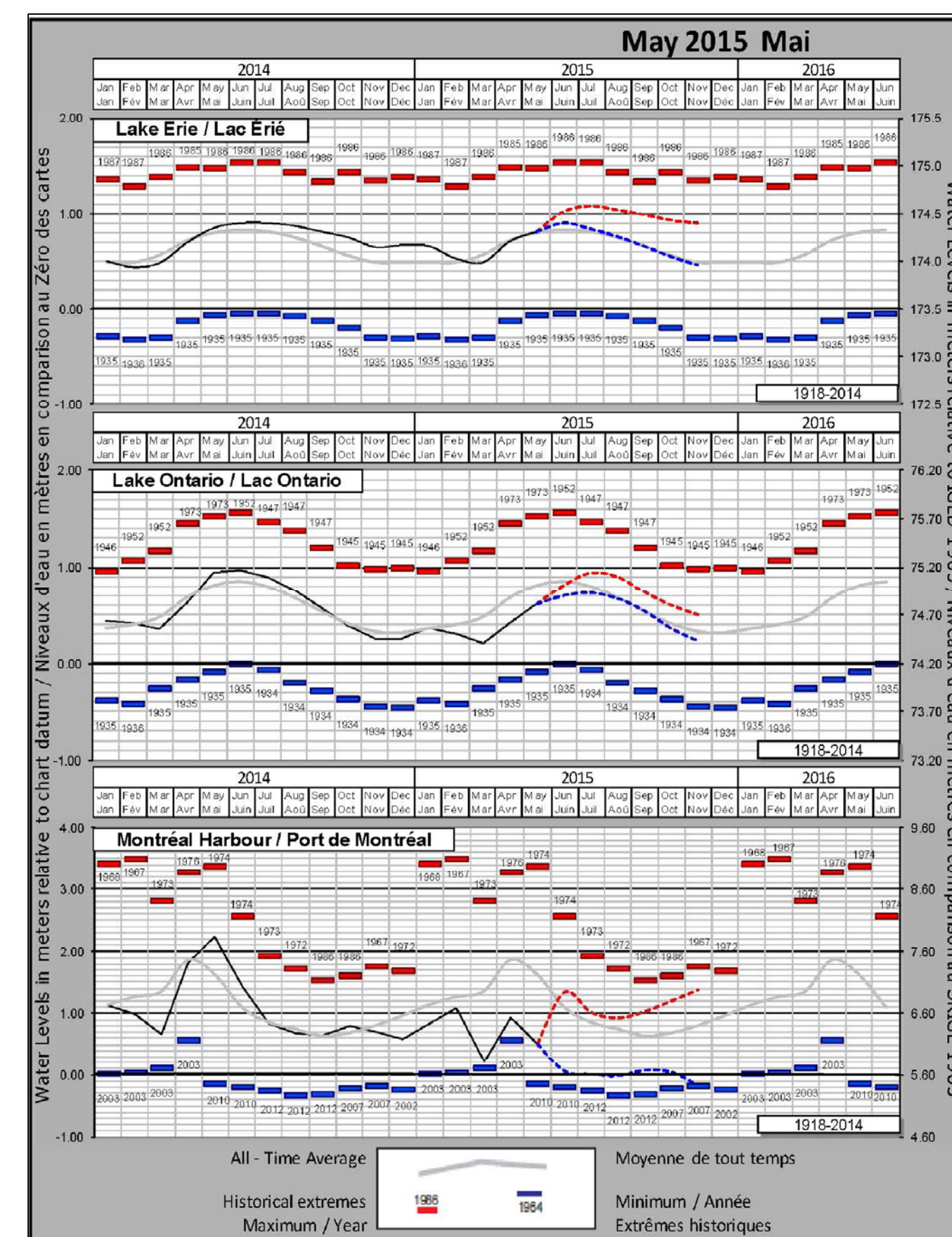
DRAWN: <b>A.M</b>	APPROVED: <b>P.L.</b>
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DATE: <b>2015-06-25</b>	DATE: <b>2015-06-25</b>
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LOCATION:  
**WHITBY, ONTARIO**

DRAWING NO.: <b>S-00</b>	LOCATOR CODE: <b>721422</b>
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## WATER LEVEL CHART



NOTE:  
INFORMATION OBTAINED FROM MONTHLY WATER LEVEL BULLETIN GREAT LAKES AND MONTREAL HARBOUR CANADIAN HYDROGRAPHIC SERVICE.

INFORMATION ALSO AVAILABLE AT THE FOLLOWING WEB SITE:  
<http://www.waterlevels.gc.ca/C&A/bulletin-eng.html>

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Stamp:



NOTES:

REVISIONS:	DATE:

SCALE: **AS NOTED** CLASS:

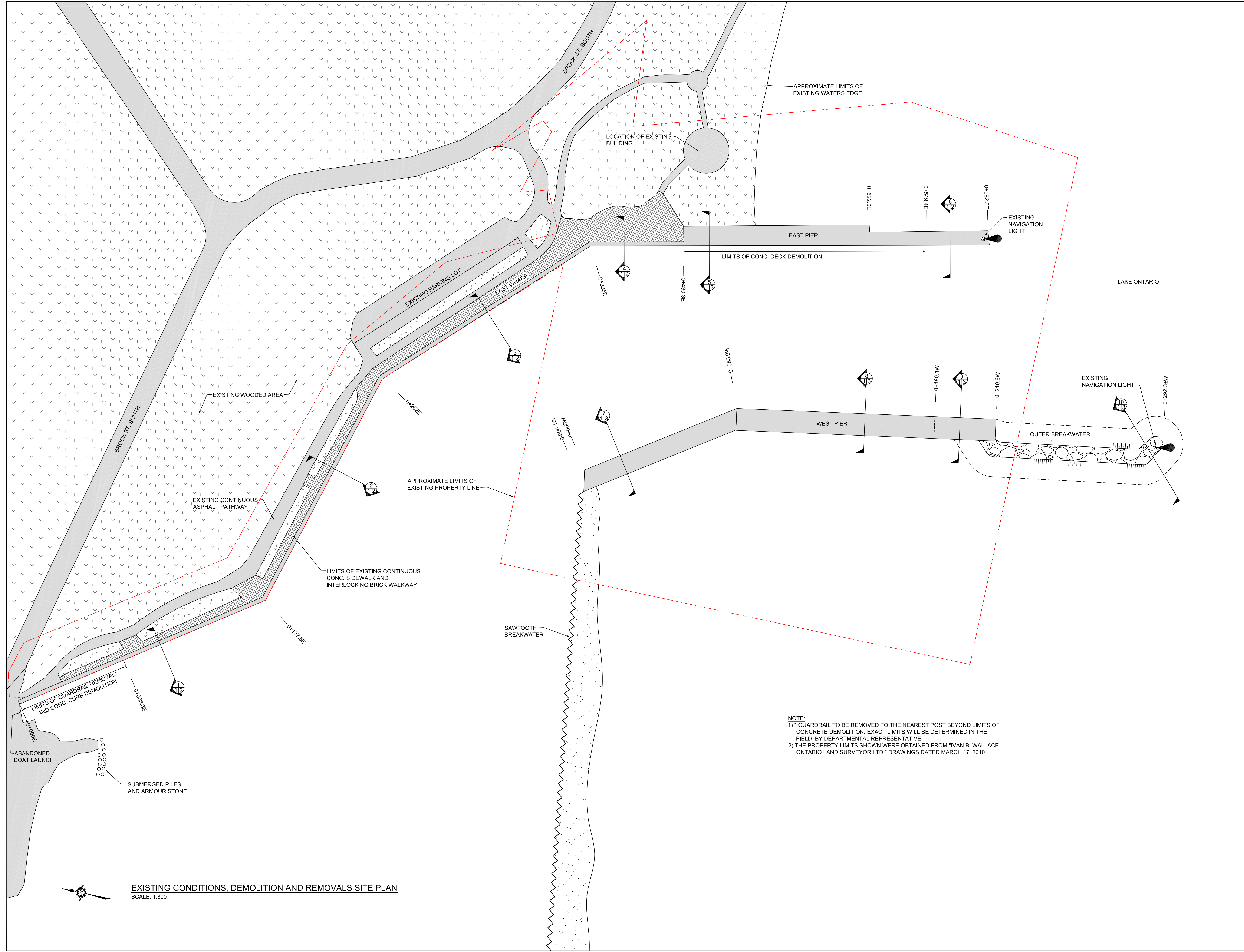
PROJECT: **WHITBY HARBOUR WHARF REPAIRS**

DESCRIPTION: **EXISTING CONDITIONS, DEMOLITION AND REMOVALS**

DRAWN: <b>A.M</b>	APPROVED: <b>P.L.</b>
DATE: <b>2015-06-25</b>	DATE: <b>2015-06-25</b>

LOCATION: **WHITBY, ONTARIO**

DRAWING NO.: <b>S-01</b>	LOCATOR CODE: <b>721422</b>
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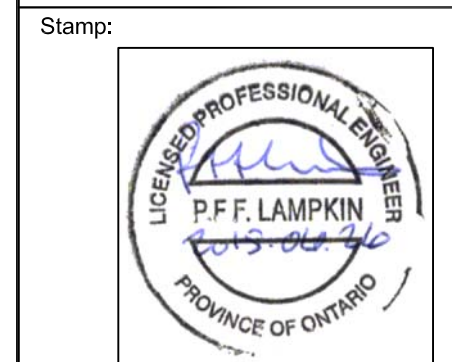
**EXISTING CONDITIONS, DEMOLITION AND REMOVALS SITE PLAN**  
SCALE: 1:800

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NOTES:

REVISIONS:	DATE:

SCALE: AS NOTED CLASS:

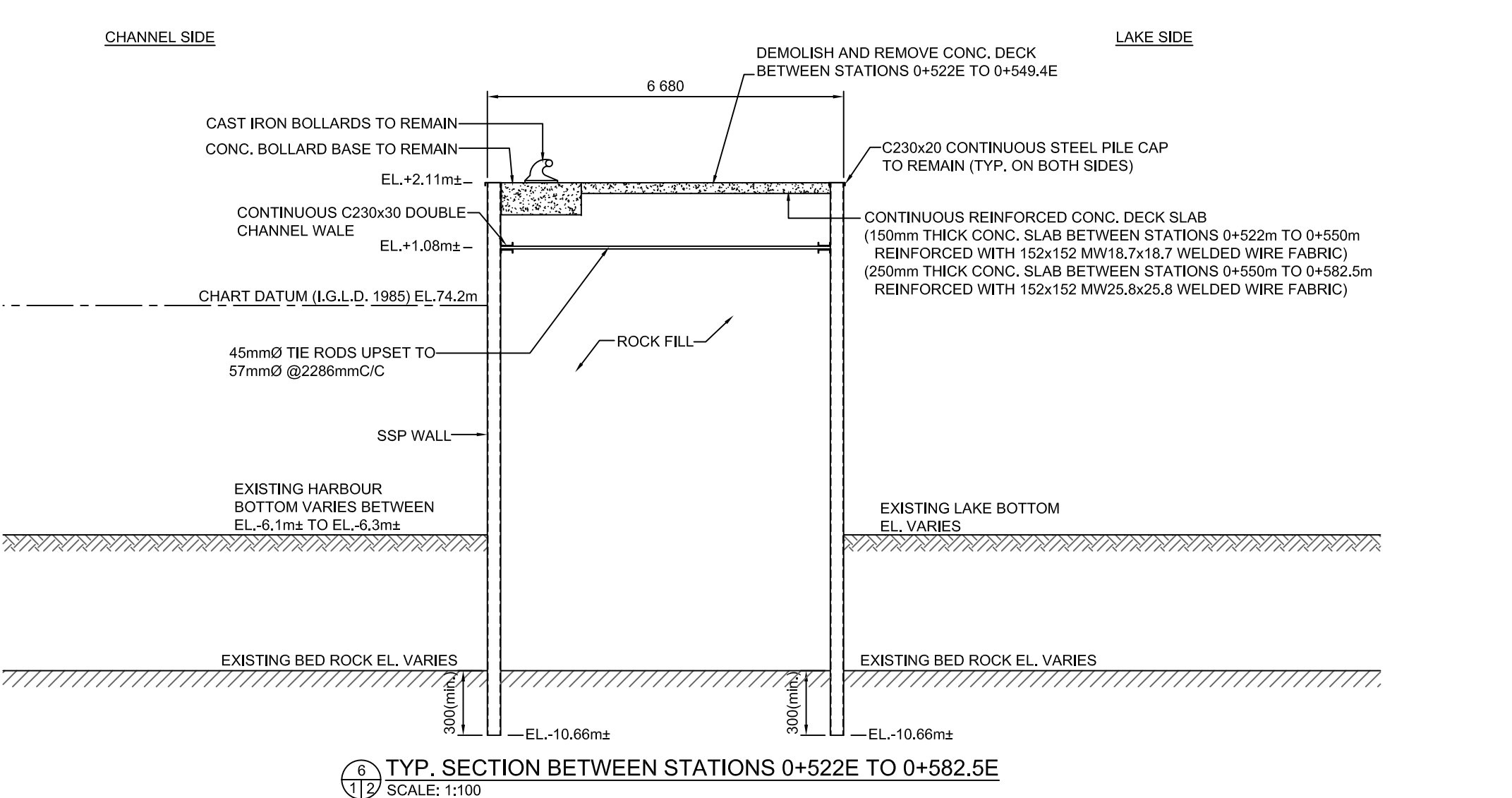
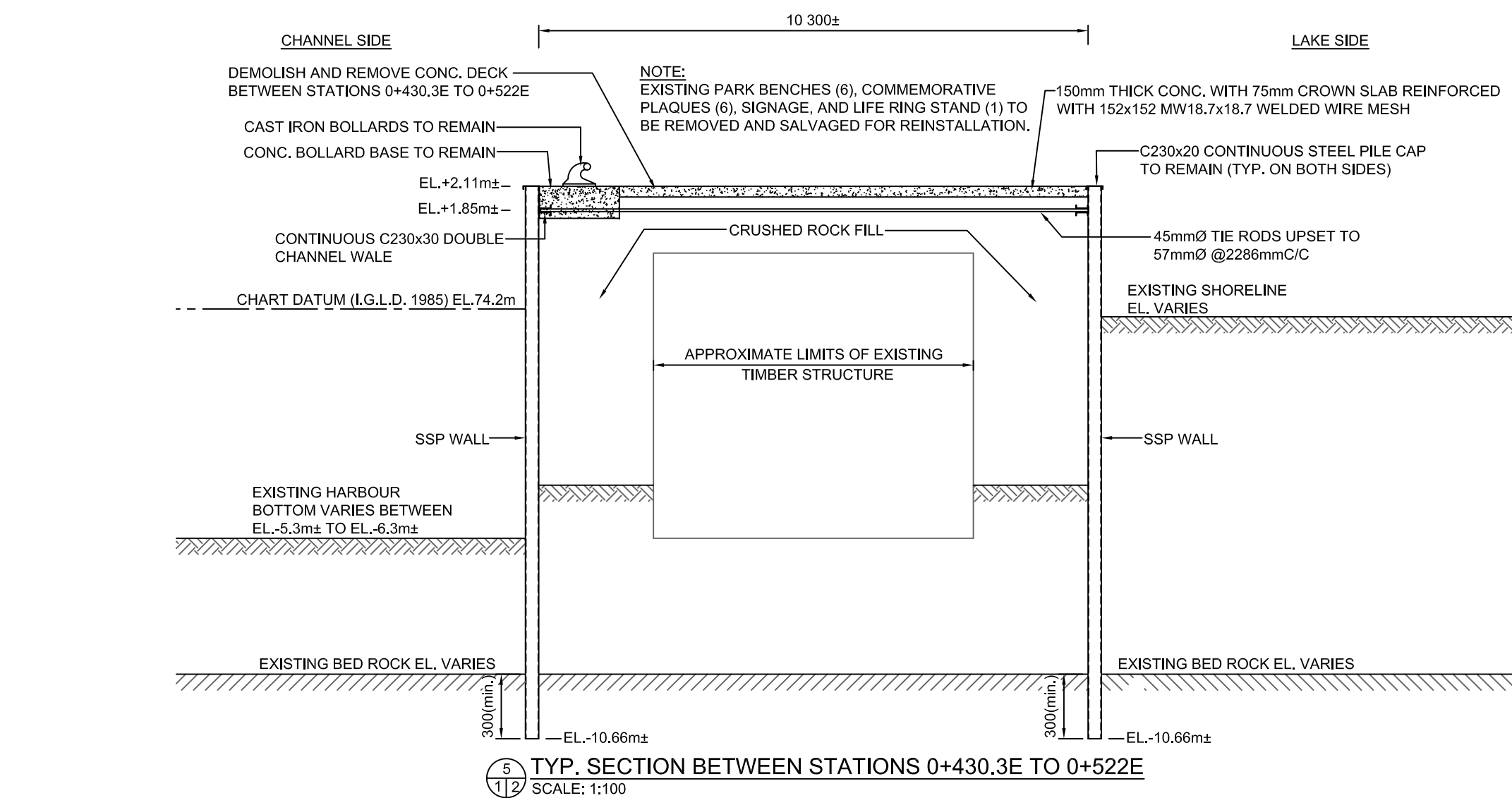
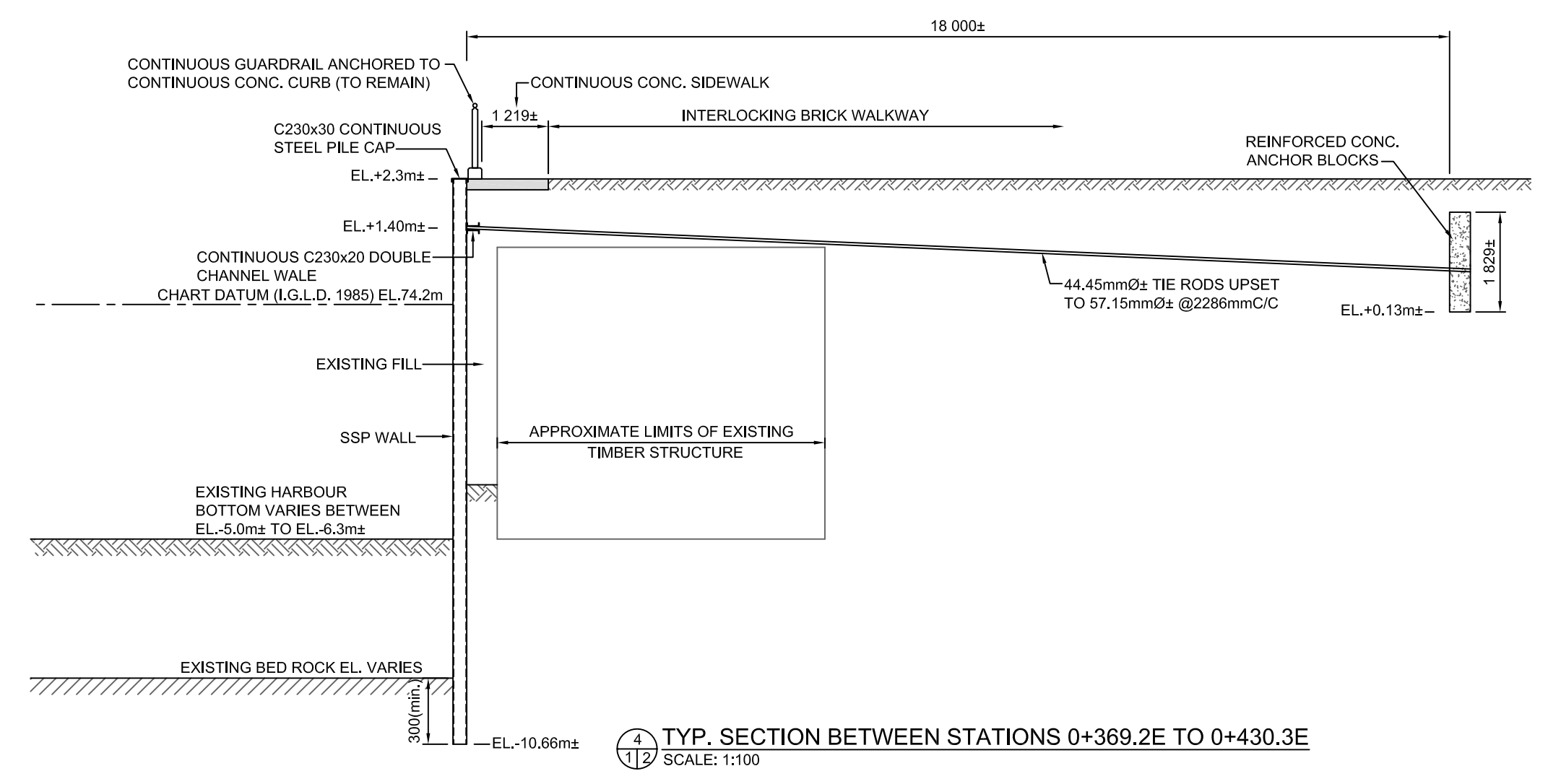
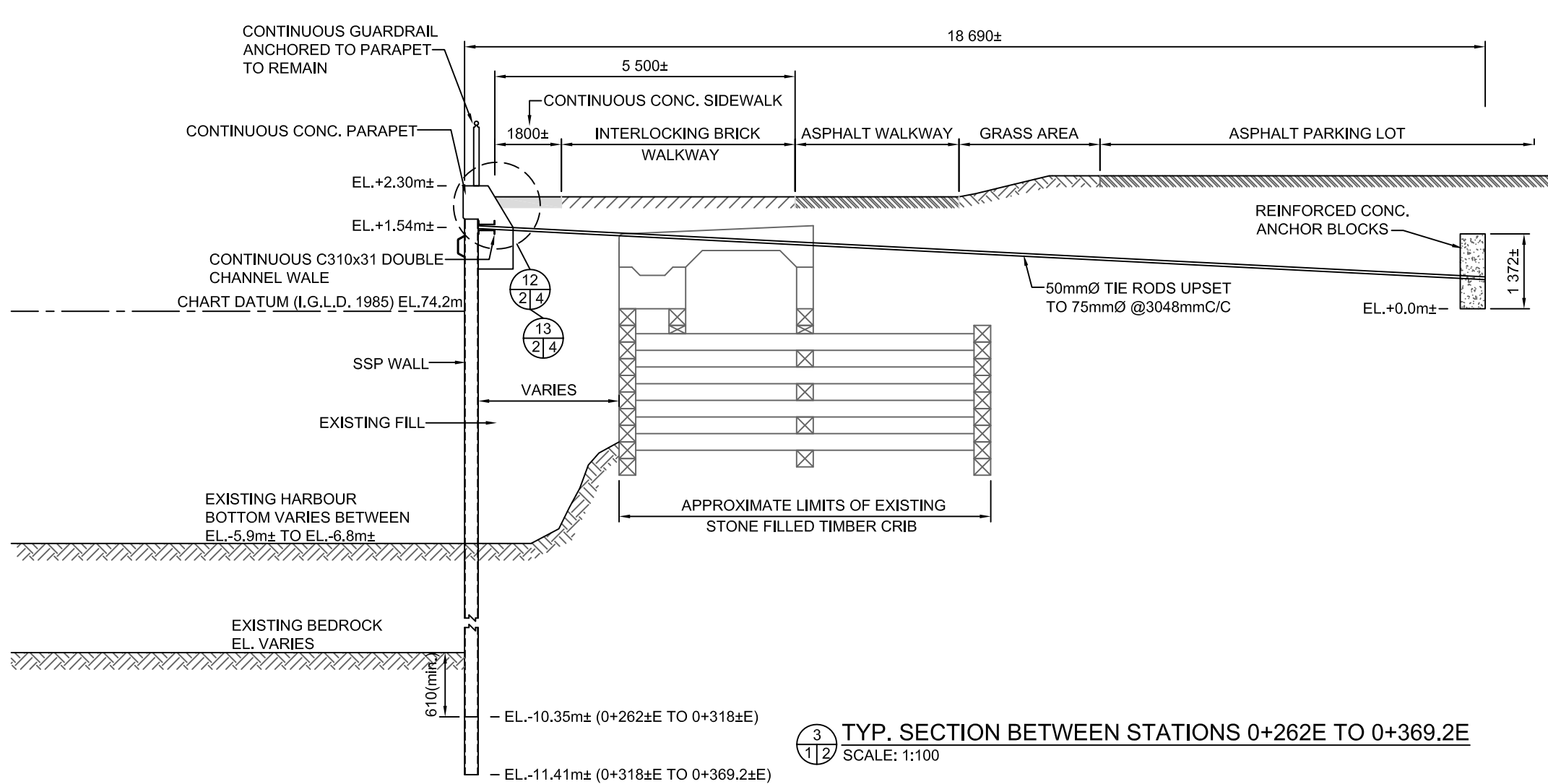
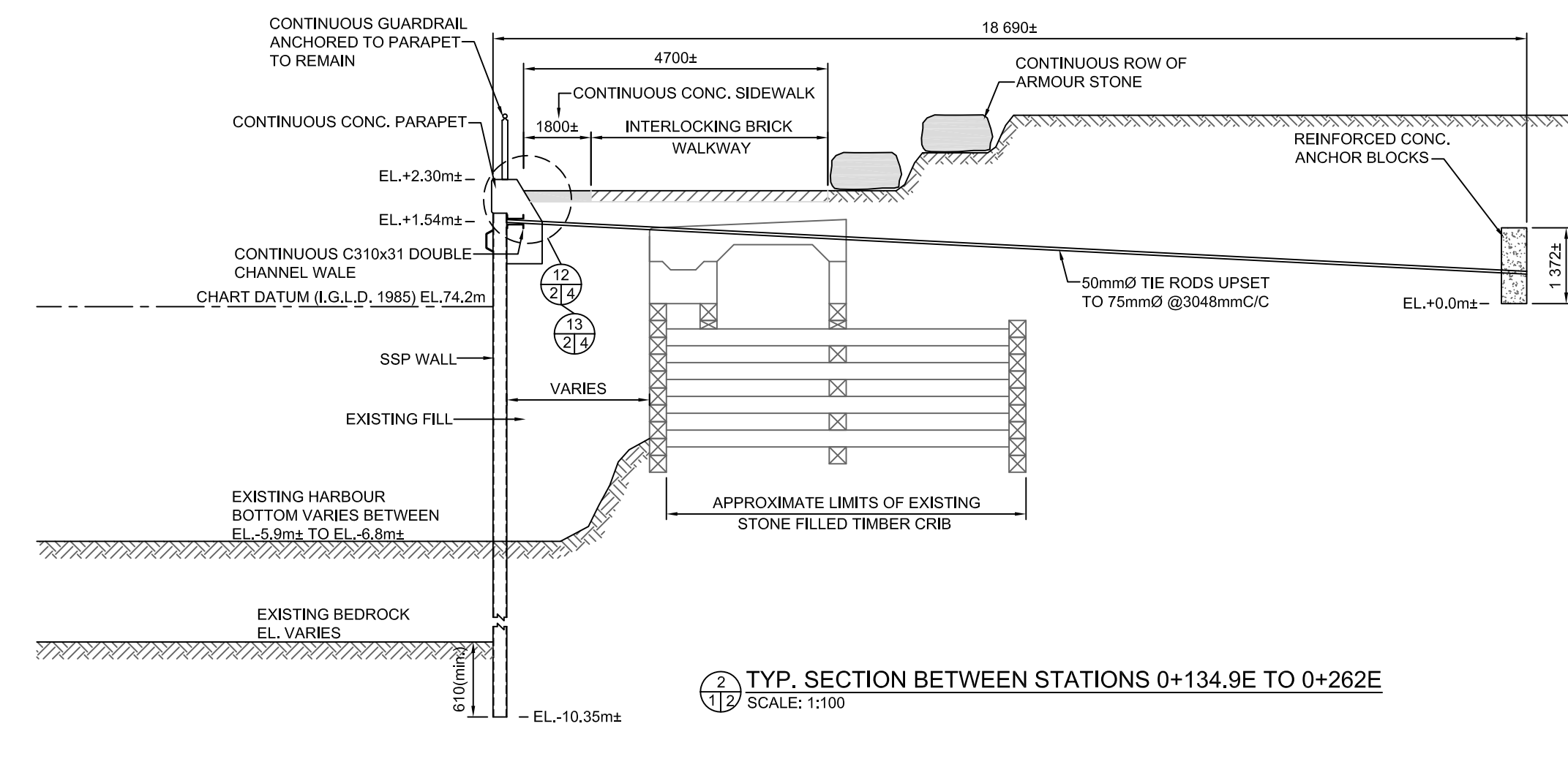
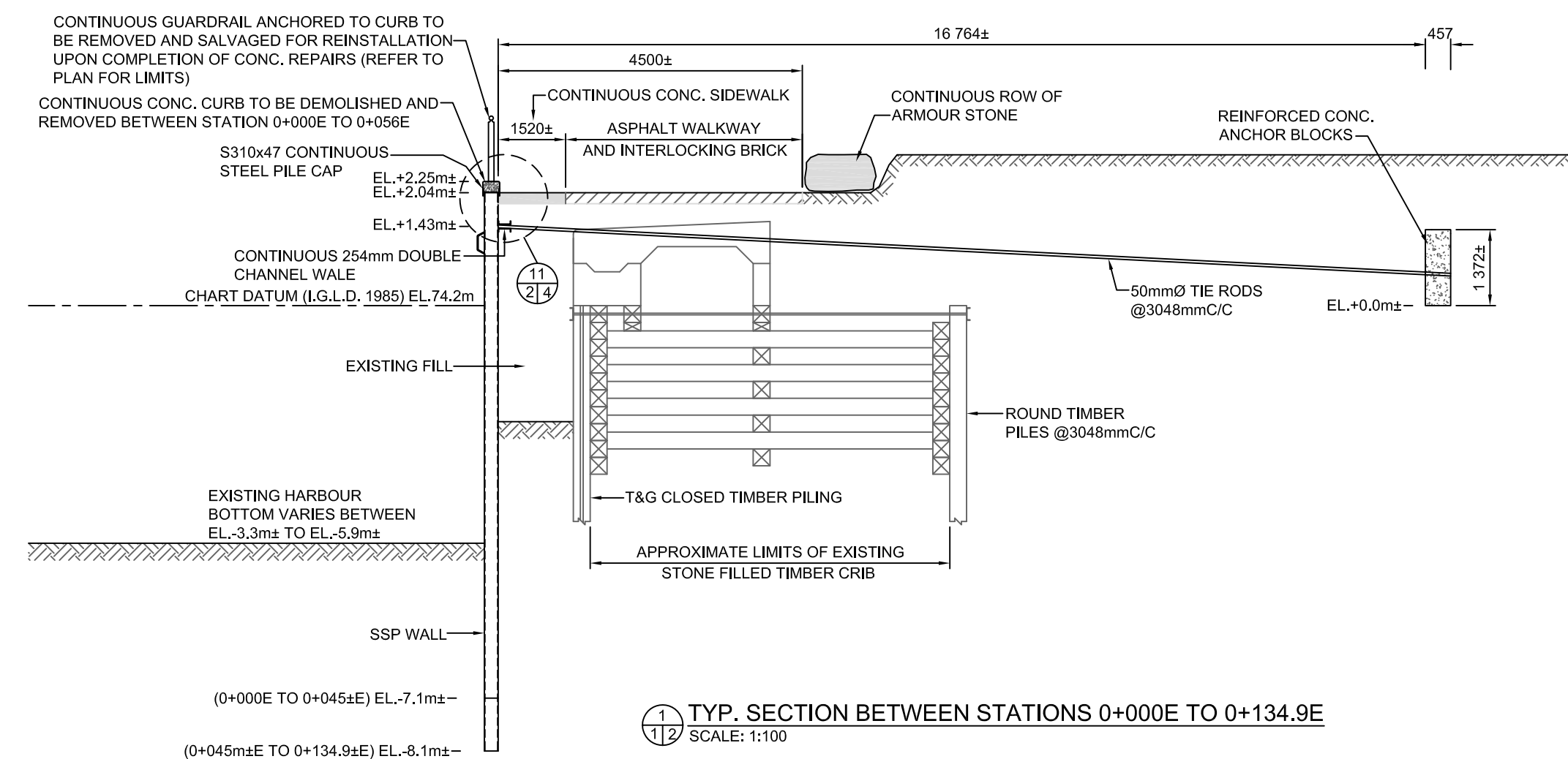
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**WHITBY HARBOUR WHARF REPAIRS**

DESCRIPTION:  
**EAST SIDE EXISTING TYP. SECTIONS, DEMOLITION AND REMOVALS**

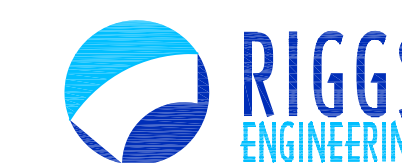
DRAWN: <b>A.M</b>	APPROVED: <b>P.L.</b>
DATE: <b>2015-06-25</b>	DATE: <b>2015-06-25</b>

LOCATION:  
**WHITBY, ONTARIO**

DRAWING NO.: <b>S-02</b>	LOCATOR CODE: <b>721422</b>
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Stamp:



NOTES:

REVISIONS:	DATE:

SCALE: AS NOTED CLASS:

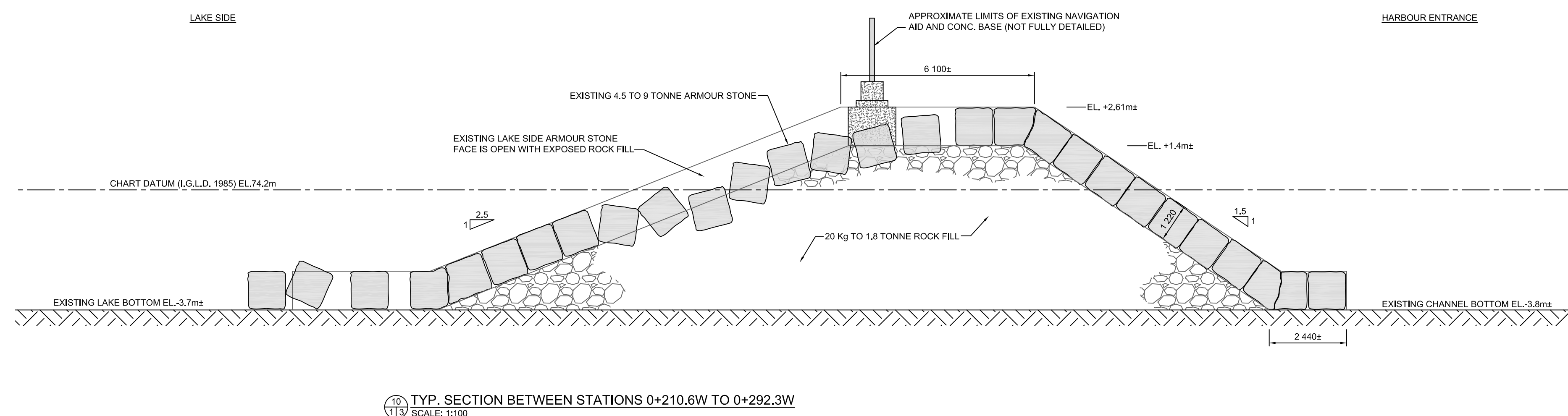
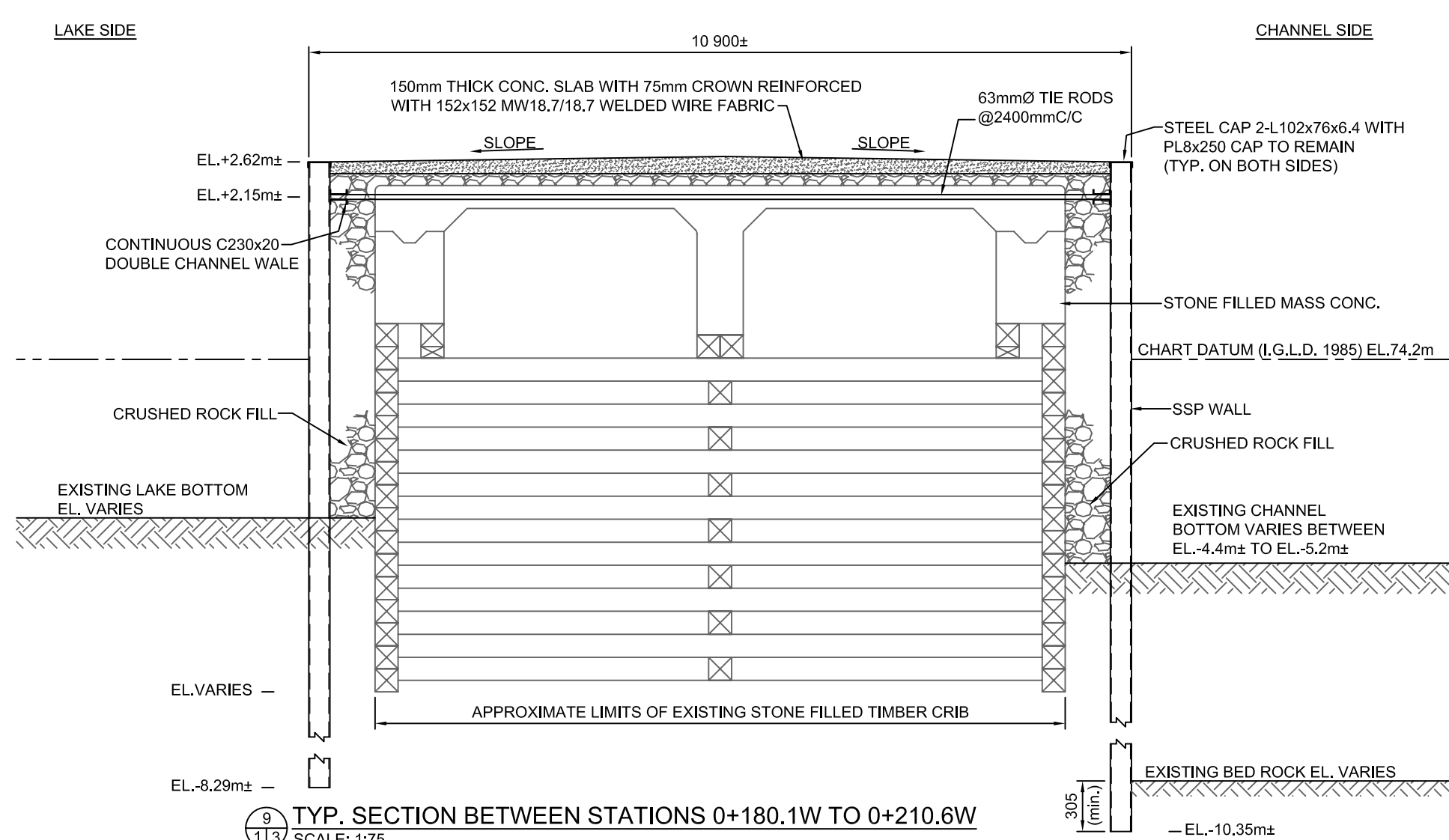
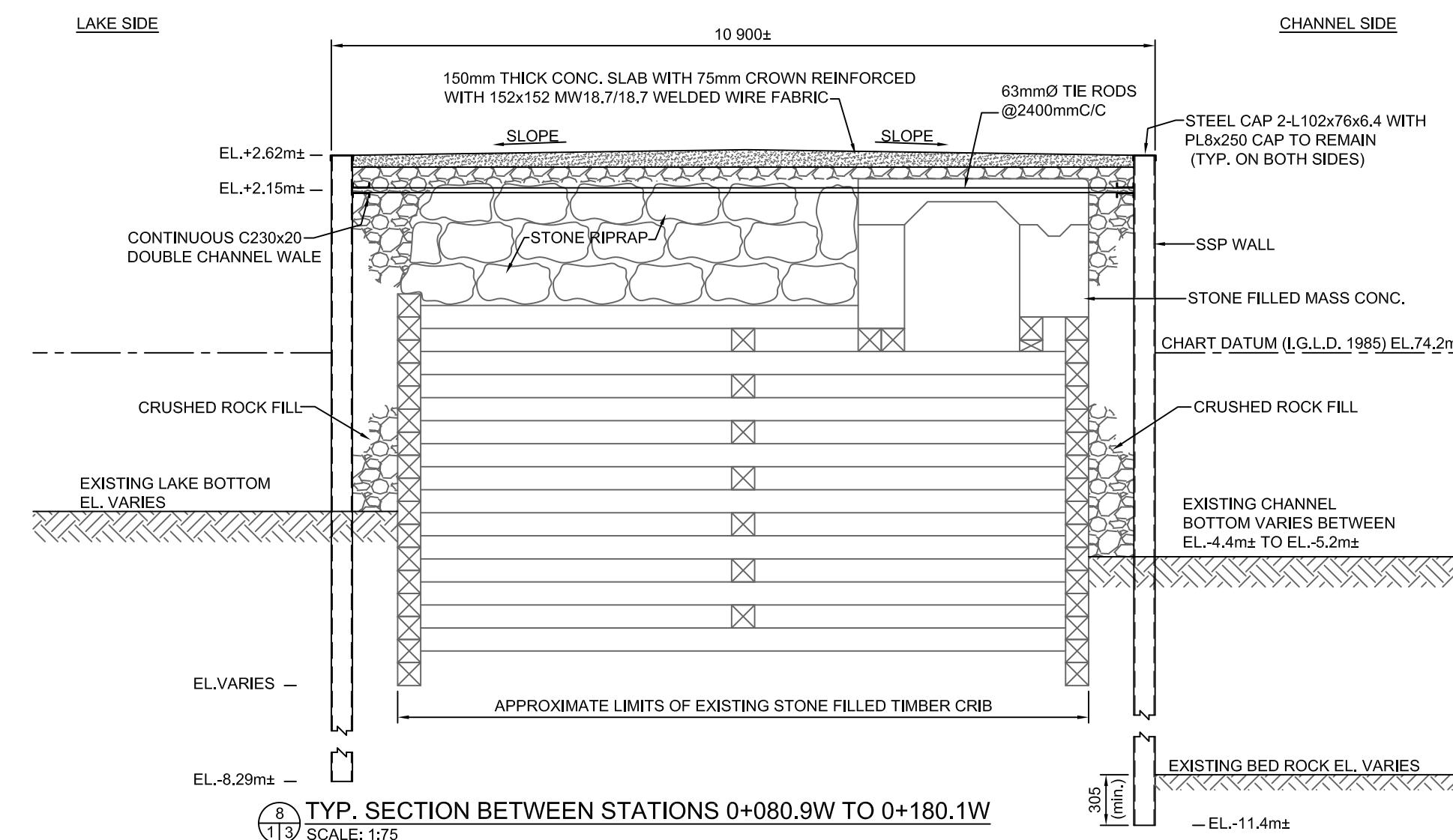
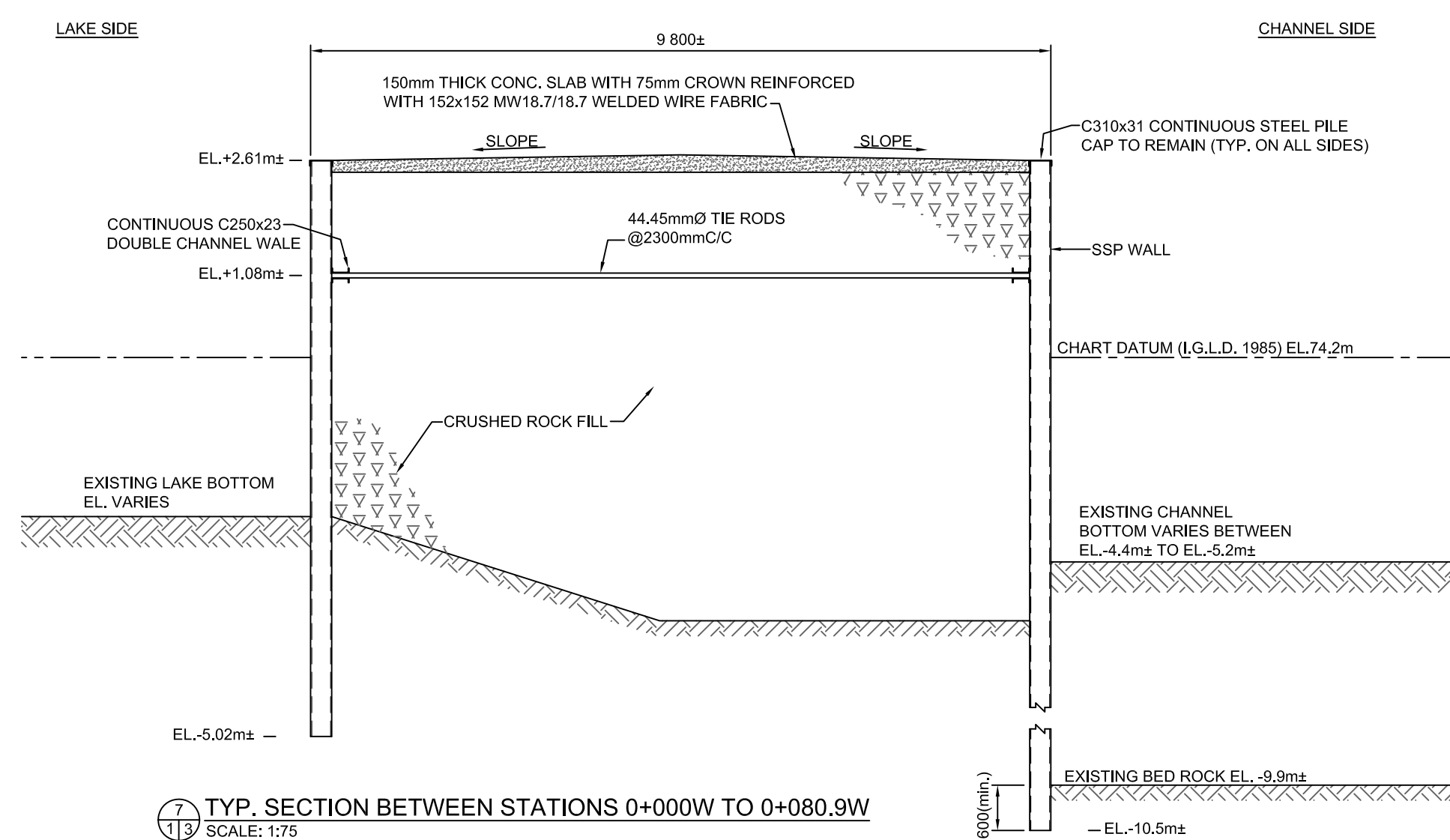
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**WHITBY HARBOUR WHARF REPAIRS**

DESCRIPTION:  
**WEST SIDE EXISTING TYP. SECTIONS, DEMOLITION AND REMOVALS**

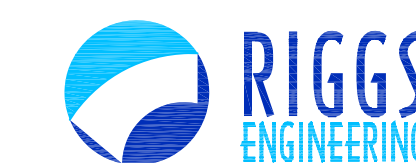
DRAWN: <b>A.M</b>	APPROVED: <b>P.L.</b>
DATE: <b>2015-06-25</b>	DATE: <b>2015-06-25</b>

LOCATION:  
**WHITBY, ONTARIO**

DRAWING NO.: <b>S-03</b>	LOCATOR CODE: <b>721422</b>
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Stamp:



NOTES:

REVISIONS:	DATE:

SCALE: **AS NOTED** CLASS:

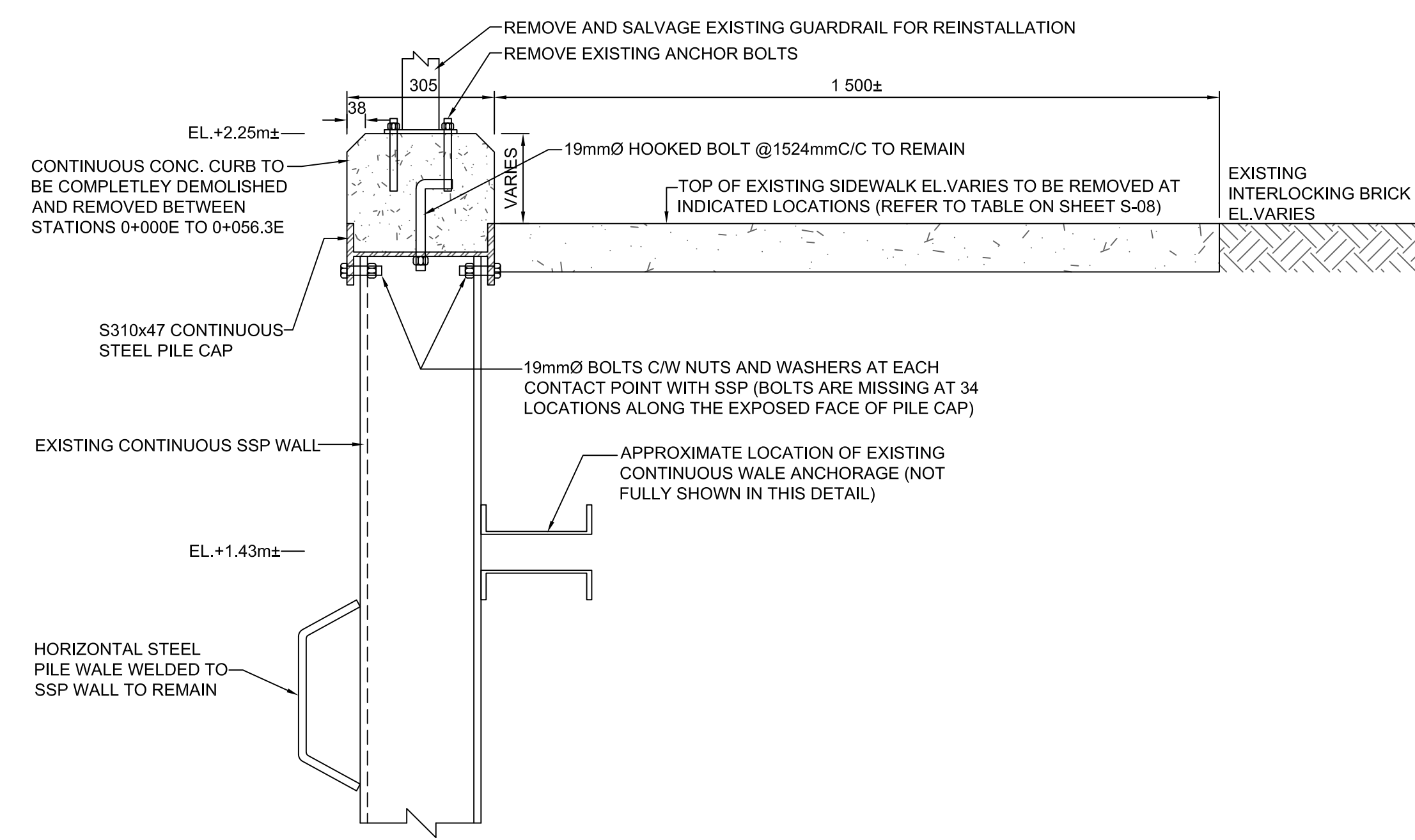
PROJECT:  
**WHITBY HARBOUR WHARF REPAIRS**

DESCRIPTION:  
**TYP. EXISTING DETAILS, DEMOLITION AND REMOVALS**

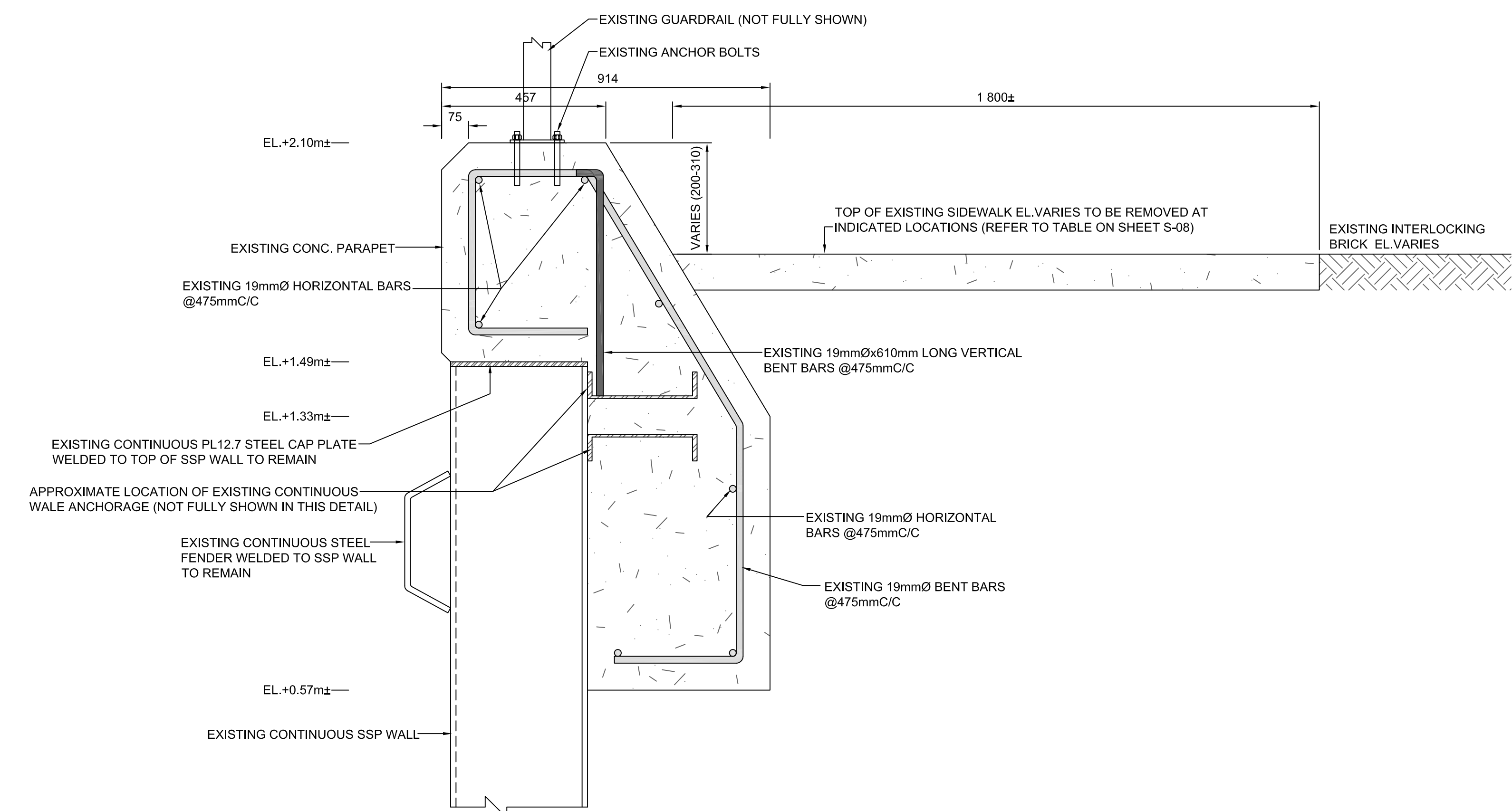
DRAWN: <b>A.M</b>	APPROVED: <b>P.L.</b>
DATE: <b>2015-06-25</b>	DATE: <b>2015-06-25</b>

LOCATION:  
**WHITBY, ONTARIO**

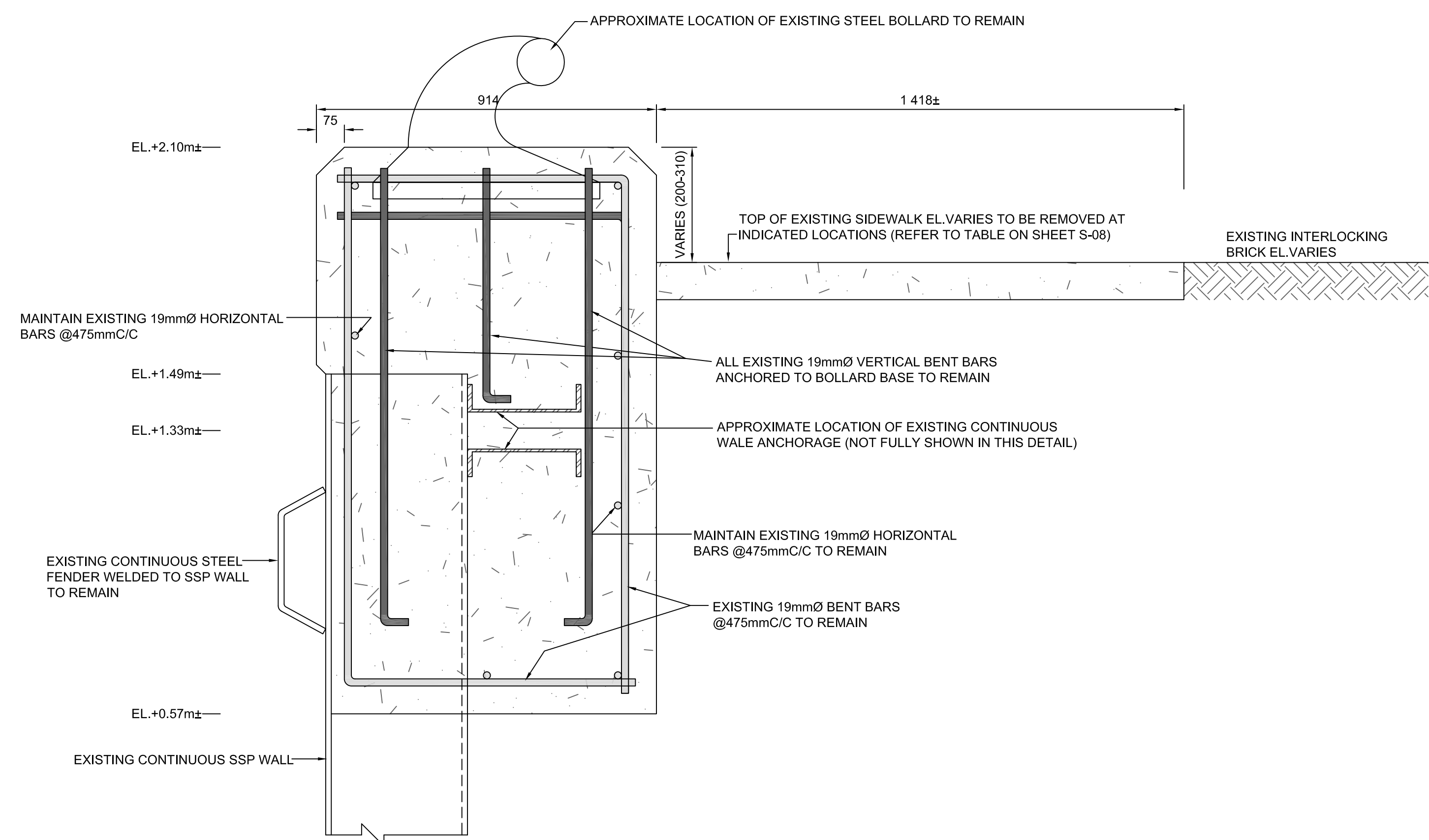
DRAWING NO.: <b>S-04</b>	LOCATOR CODE: <b>721422</b>
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11 TYP. EXISTING CONC. PARAPET DETAIL (STATIONS 0+000E TO 0+134.9E)  
SCALE: 1:10



12 TYP. CONC. PARAPET DETAIL (STATIONS 0+187.4E TO 0+369.2±E)  
SCALE: 1:10



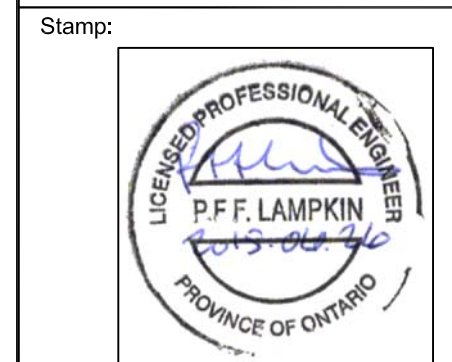
13 TYP. CONC. PARAPET DETAIL AT BOLLARD LOCATIONS (STATIONS 0+187.4E TO 0+369.2±E)  
SCALE: 1:10

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REVISIONS:	DATE:

SCALE: AS NOTED CLASS:

PROJECT: WHITBY HARBOUR WHARF REPAIRS

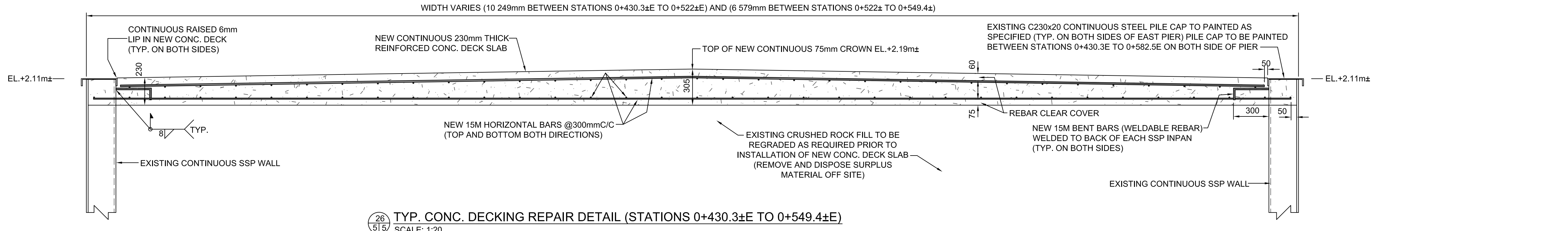
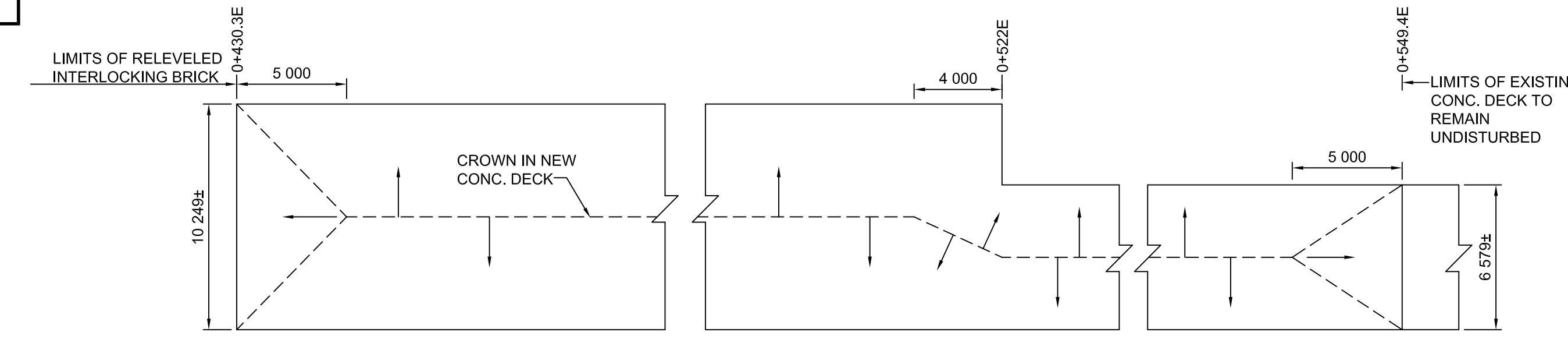
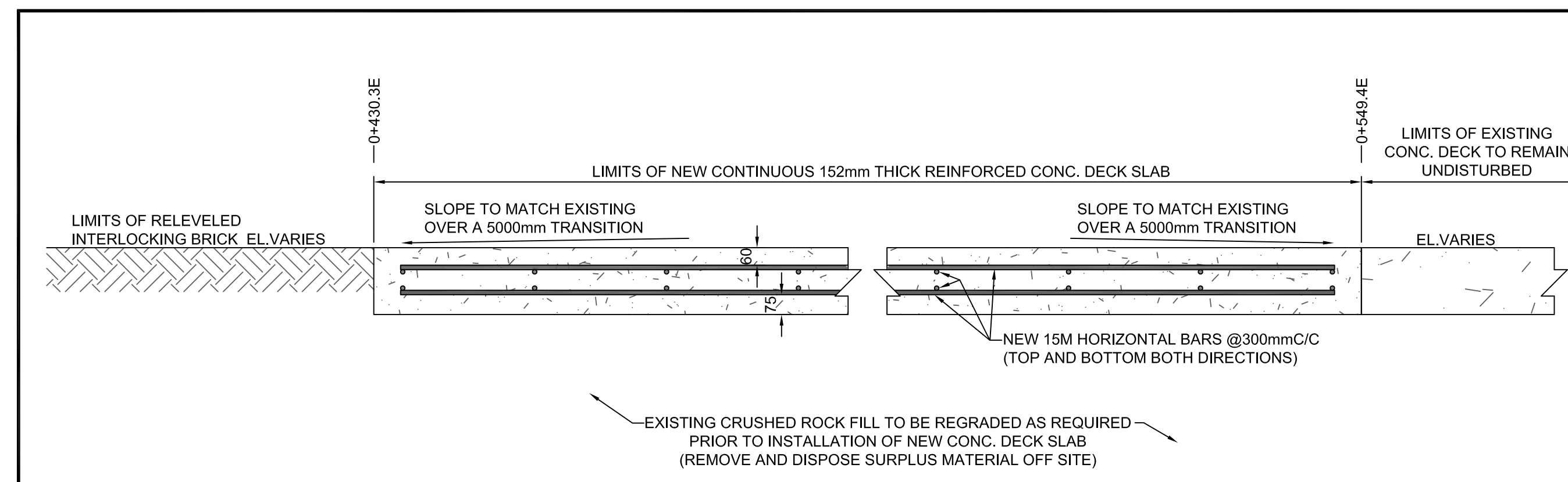
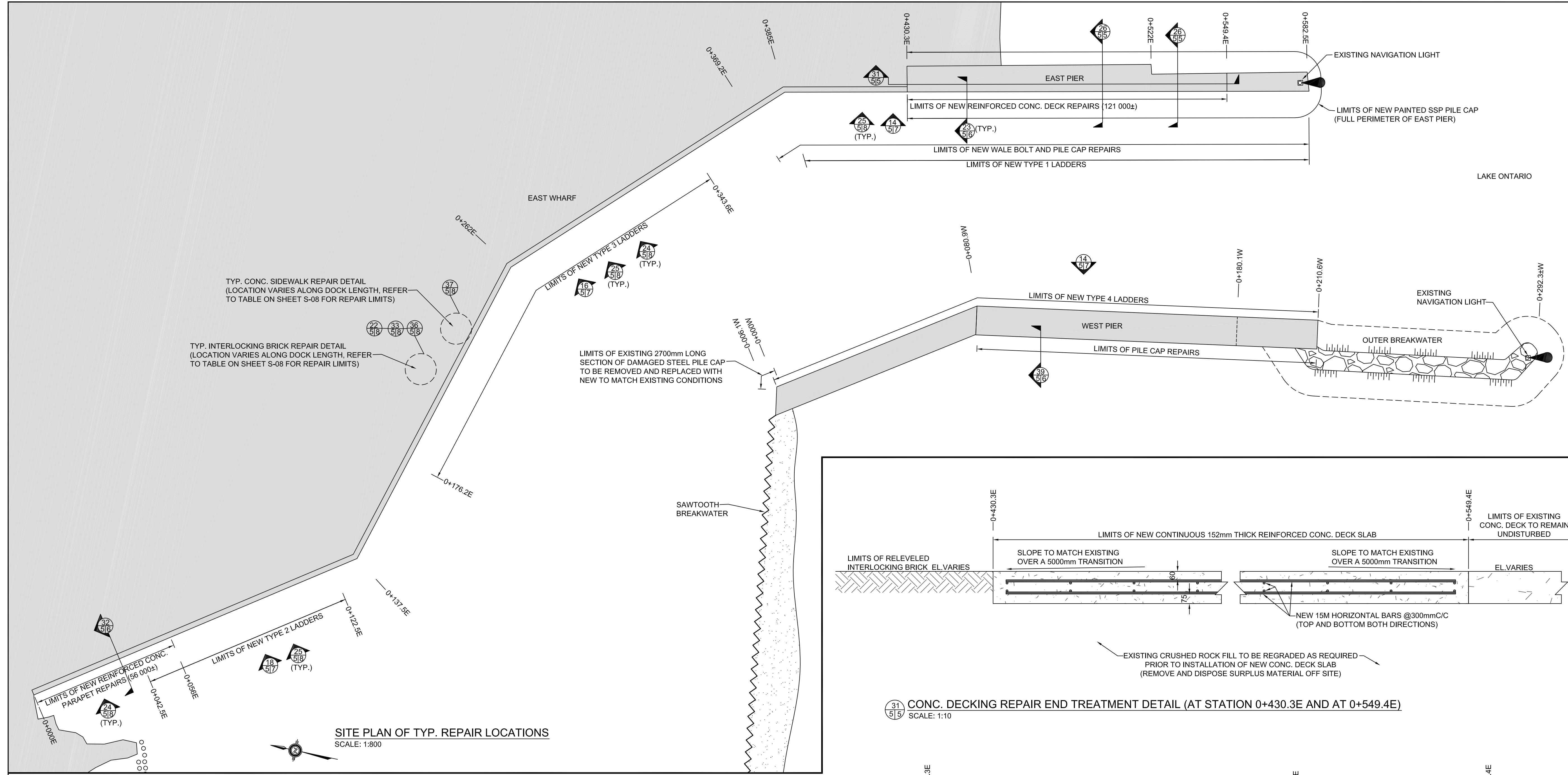
DESCRIPTION: SITE PLAN OF TYP. REPAIR LOCATIONS

DRAWN: A.M APPROVED: P.L.

DATE: 2015-06-25 DATE: 2015-06-25

LOCATION: WHITBY, ONTARIO

DRAWING NO.: S-05 LOCATOR CODE: 721422

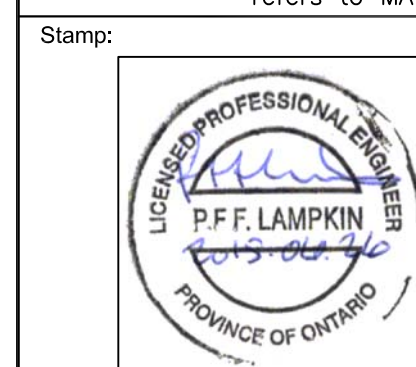


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SCALE: AS NOTED CLASS:

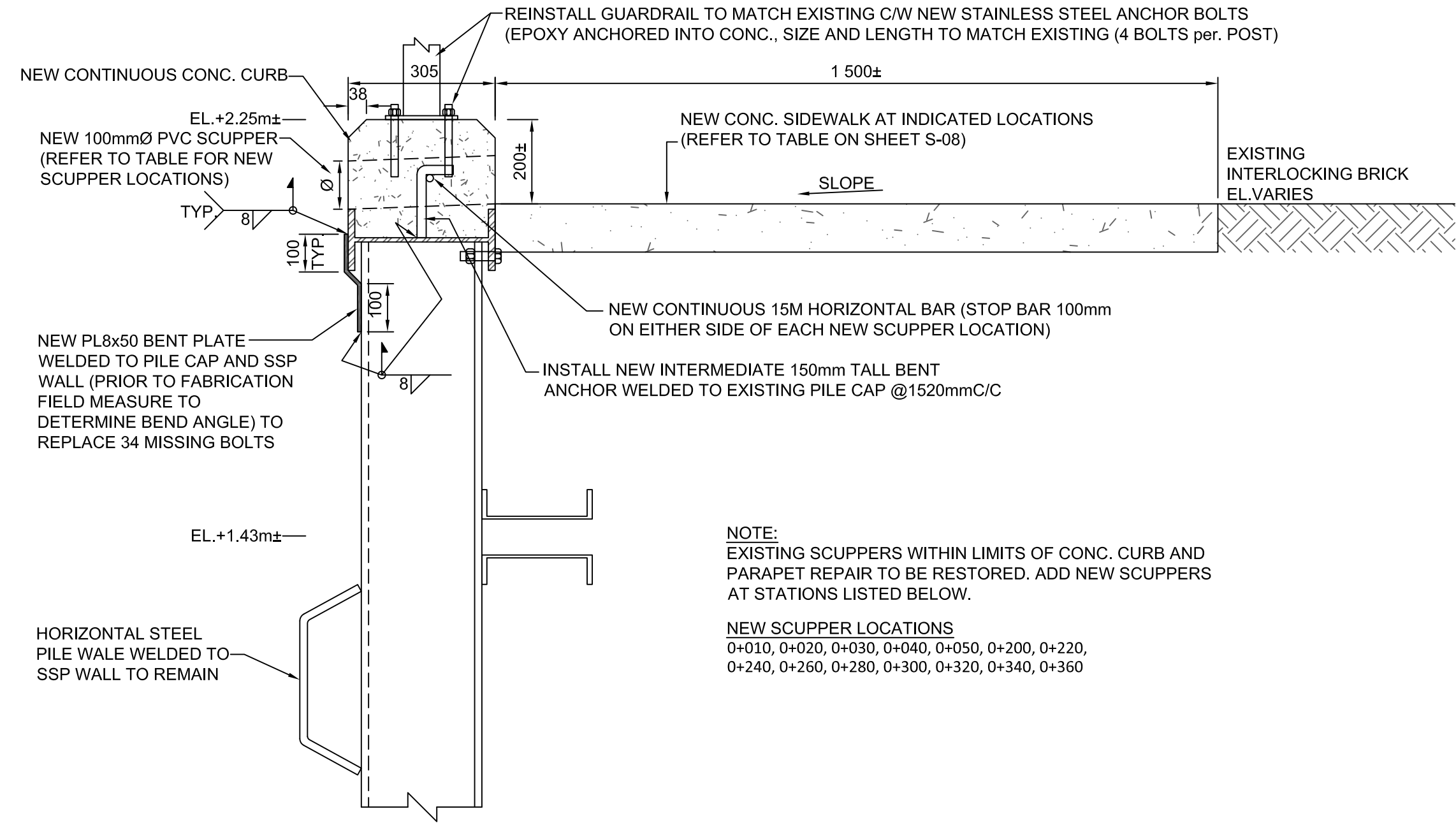
PROJECT:  
**WHITBY HARBOUR WHARF REPAIRS**

DESCRIPTION:  
**TYP. REPAIR DETAILS**

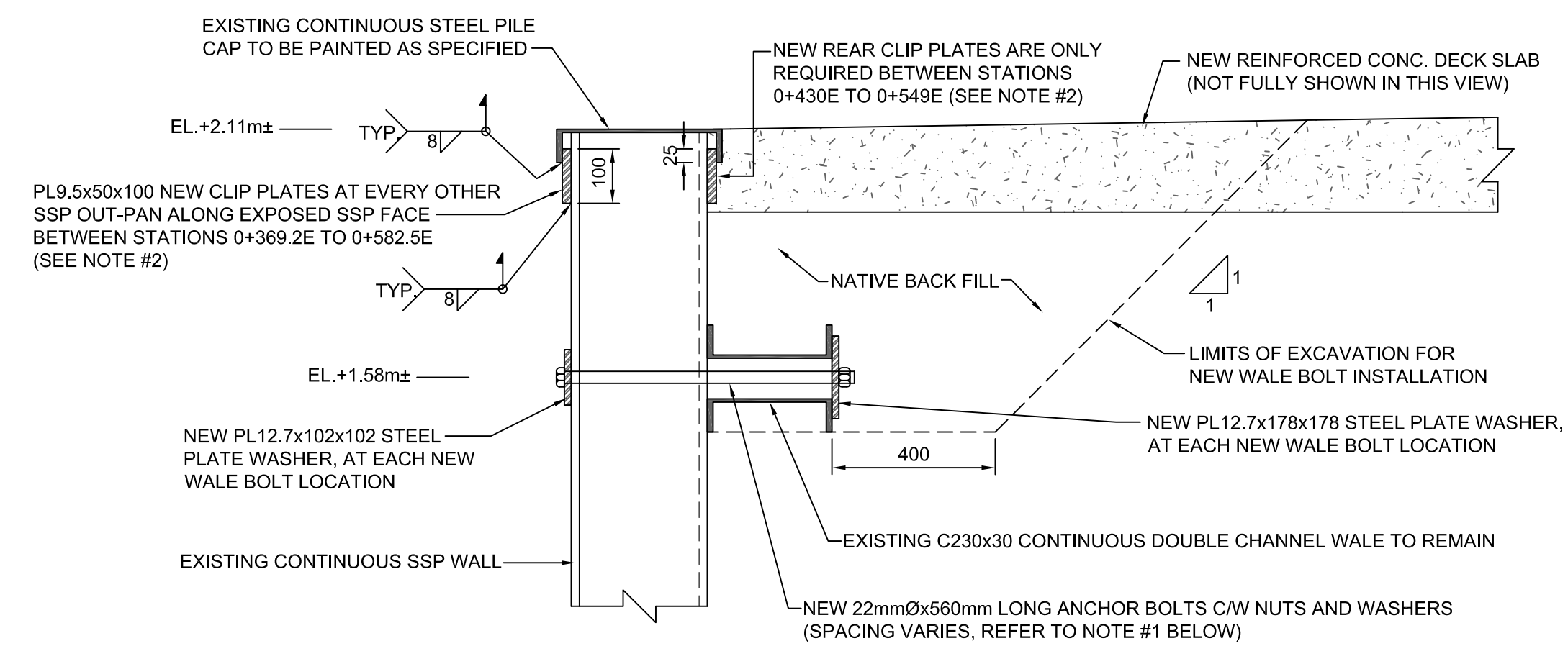
DRAWN: <b>A.M</b>	APPROVED: <b>P.L.</b>
DATE: <b>2015-06-25</b>	DATE: <b>2015-06-25</b>

LOCATION:  
**WHITBY, ONTARIO**

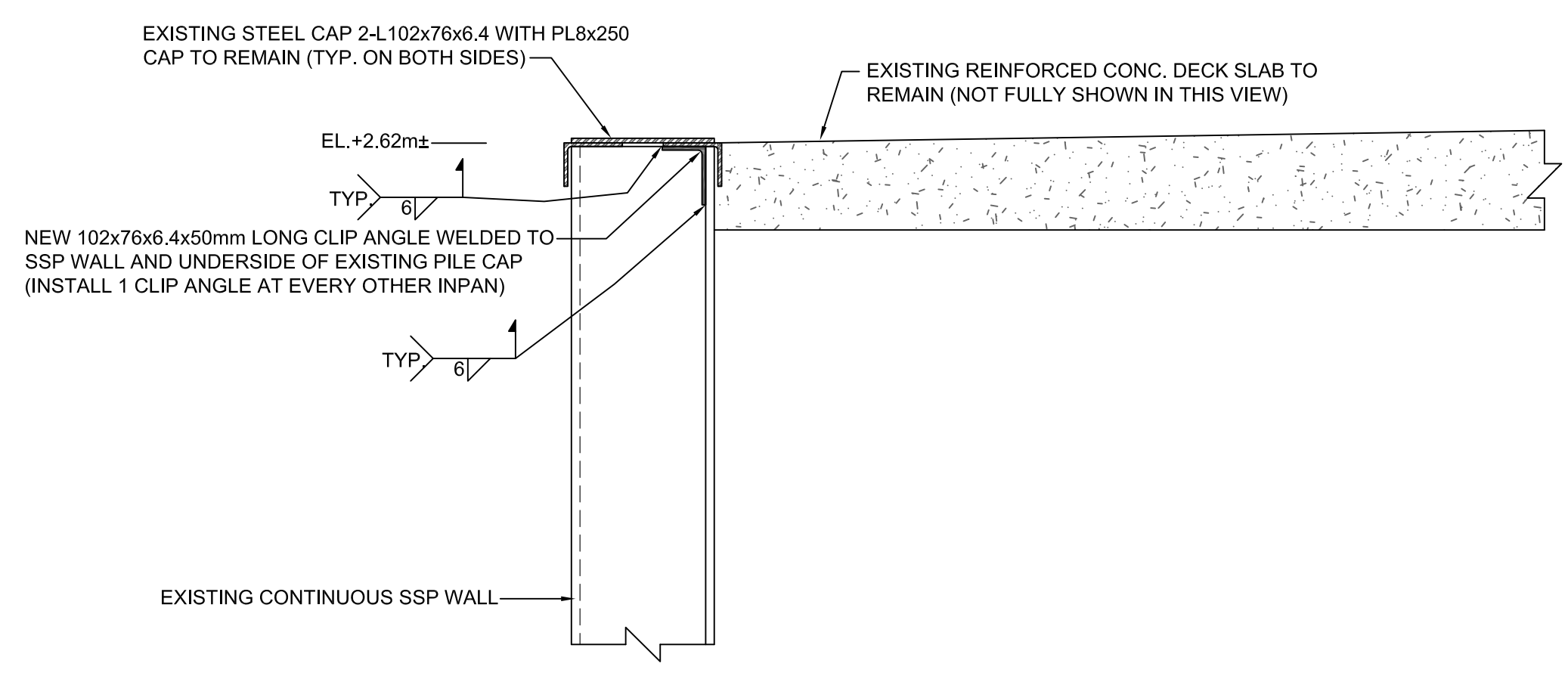
DRAWING NO.: **S-06** LOCATOR CODE: **721422**



32 TYP. CONC. PARAPET REPAIR AND STEEL STRAP DETAIL (STATIONS 0+000E TO 0+056±E)  
 SCALE: 1:10



23 TYP. WALE BOLT AND SSP PILE CAP REPAIR DETAIL (EAST SIDE)  
 SCALE: 1:10



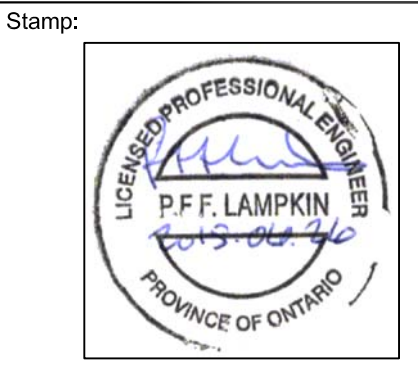
39 TYP. SSP PILE CAP REPAIR DETAIL (WEST PIER 0+080.9W TO 0+210.6W)  
 SCALE: 1:10

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REVISIONS:	DATE:

SCALE: AS NOTED CLASS:

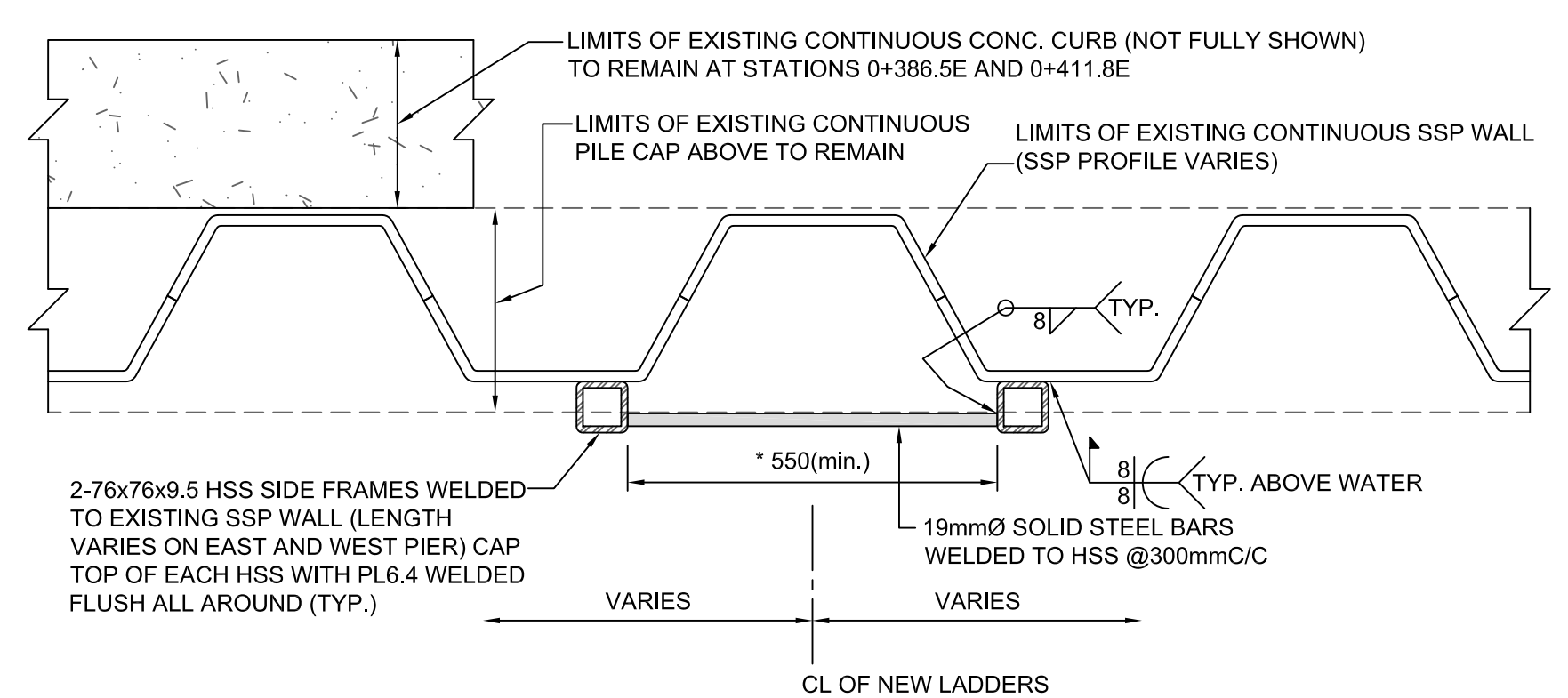
PROJECT: WHITBY HARBOUR WHARF REPAIRS

DESCRIPTION: TYP. LADDER REPAIR DETAILS

DRAWN: A.M	APPROVED: P.L.
DATE: 2015-06-25	DATE: 2015-06-25

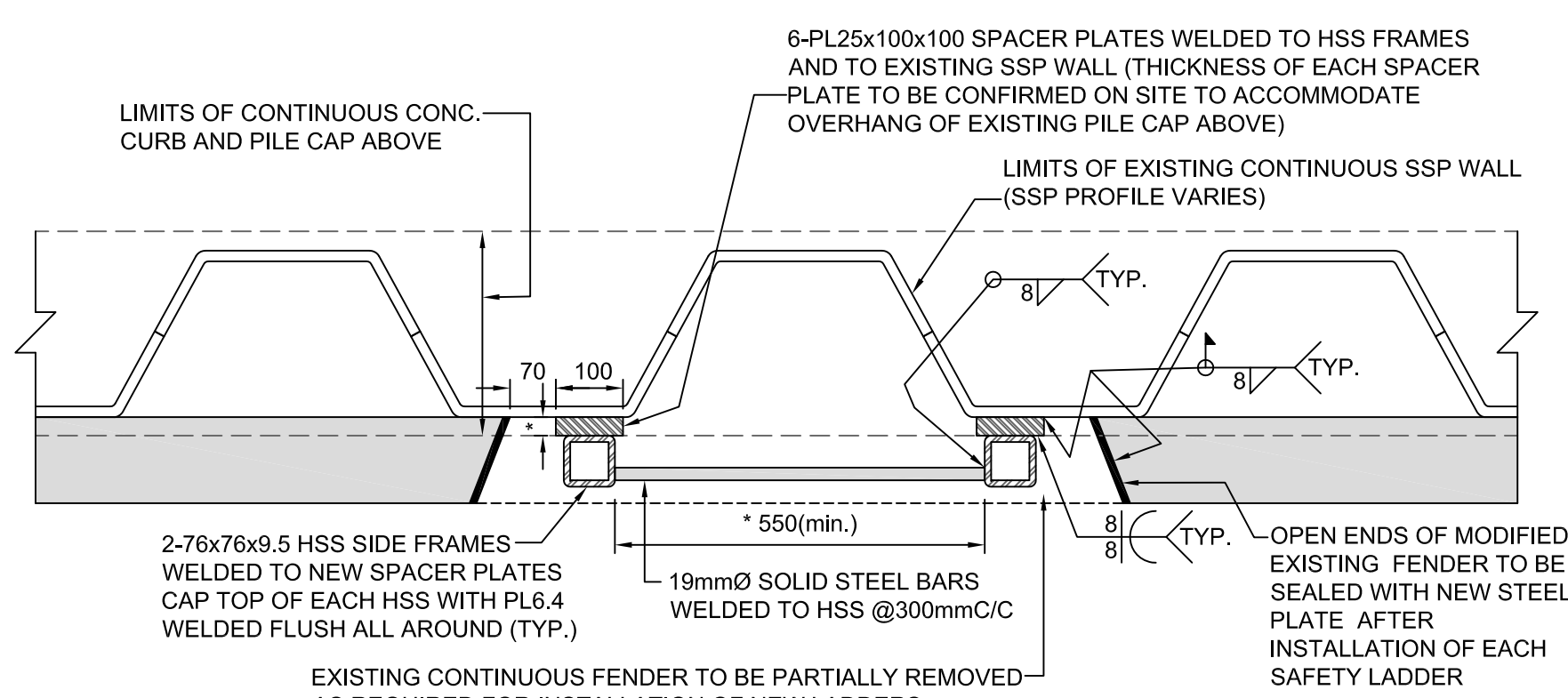
LOCATION: WHITBY, ONTARIO

DRAWING NO.: S-07	LOCATOR CODE: 721422
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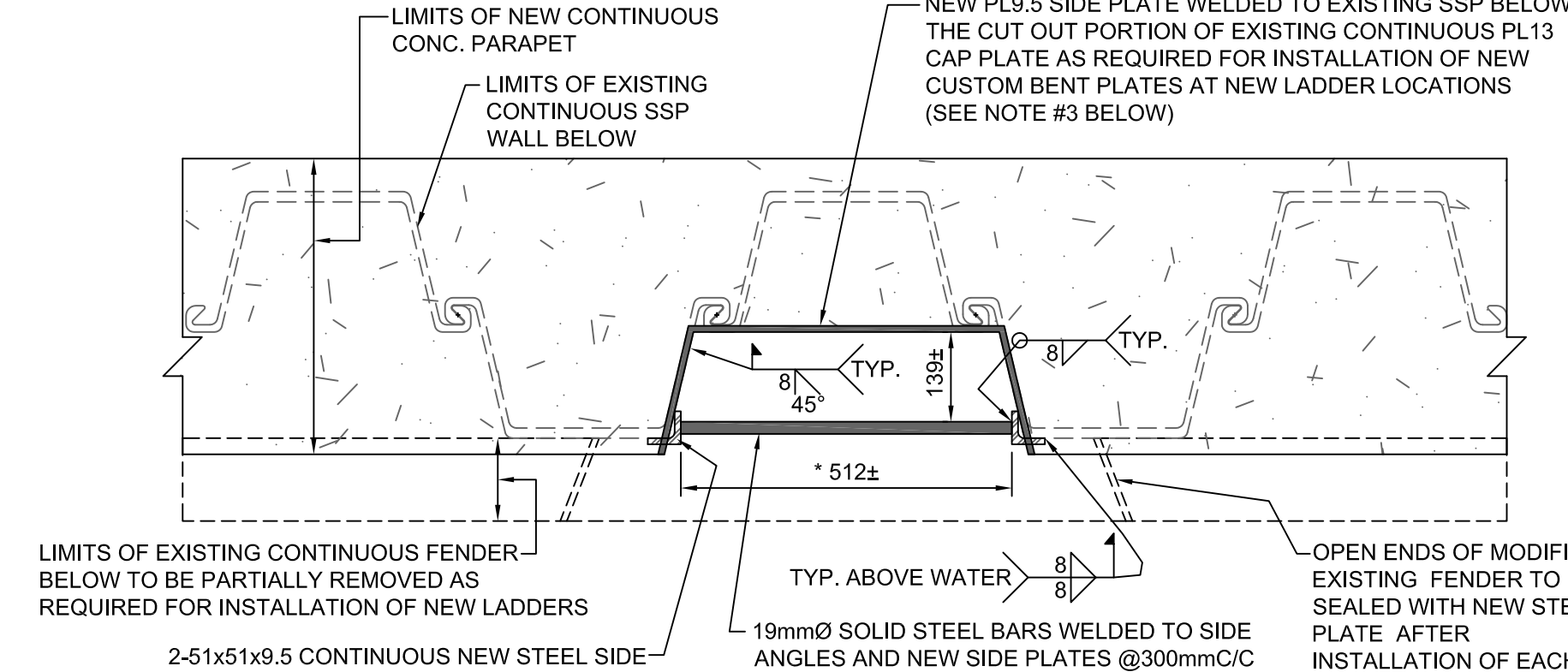
NOTE:  
 1) \* DIMENSION TO BE CONFIRMED IN THE FIELD BY CONTRACTOR PRIOR TO FABRICATION OF NEW SAFETY LADDERS.  
 2) EXISTING SAFETY LADDERS TO BE FULLY REMOVED AT STATIONS 0+386.5E, 0+443E, 0+501E, AND 0+570.7E.  
 3) EAST SIDE - NEW TYPE 1 LADDERS ARE REQUIRED AT STATIONS 0+386.5E, 0+411.8E, 0+443E, 0+472E, 0+501E, 0+536E, 0+570.7E.  
 4) WEST SIDE - NEW TYPE 4 LADDERS ARE REQUIRED AT STATIONS 0+000W, 0+030W, 0+060W, 0+090W, 0+120W, 0+150W, 0+180W.  
 5) NEW CONTINUOUS FENDER IS NOT SHOWN IN THIS VIEW, REFER TO NEW FENDER DETAILS.

15 (TYPE 1 & 4) NEW LADDER TYP. PLAN DETAIL  
 SCALE: 1:10



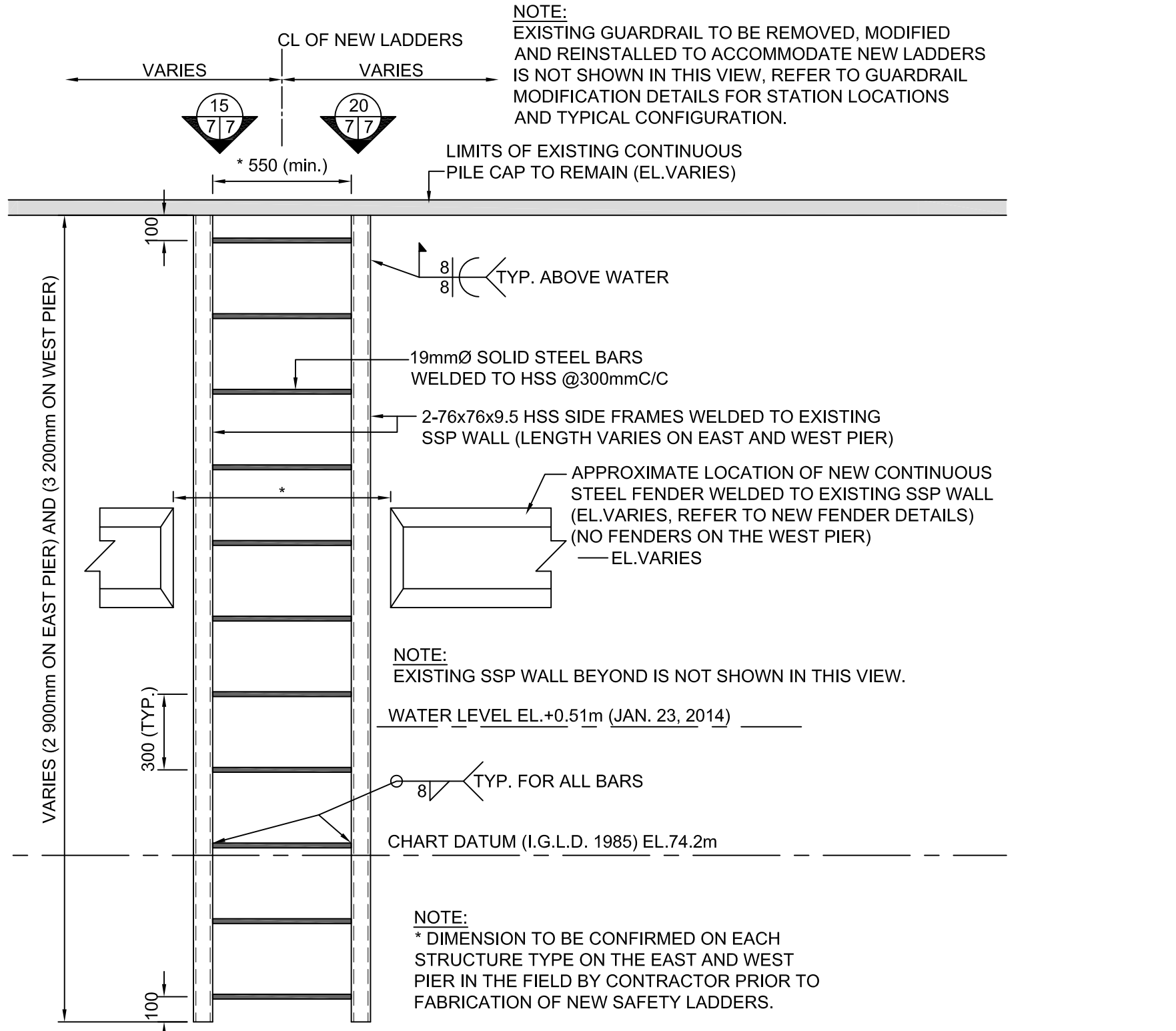
NOTE:  
 1) \* DIMENSION TO BE CONFIRMED IN THE FIELD BY CONTRACTOR PRIOR TO FABRICATION OF NEW SAFETY LADDERS.  
 2) EXISTING FENDER MODIFICATIONS ARE REQUIRED AT STATIONS 0+042.5E, 0+082.5E AND 0+122.5E.  
 3) EAST SIDE - NEW TYPE 2 LADDERS ARE REQUIRED AT STATIONS 0+042.5E, 0+082.5E, 0+122.5E.

19 (TYPE 2) NEW LADDER TYP. PLAN DETAIL  
 SCALE: 1:10

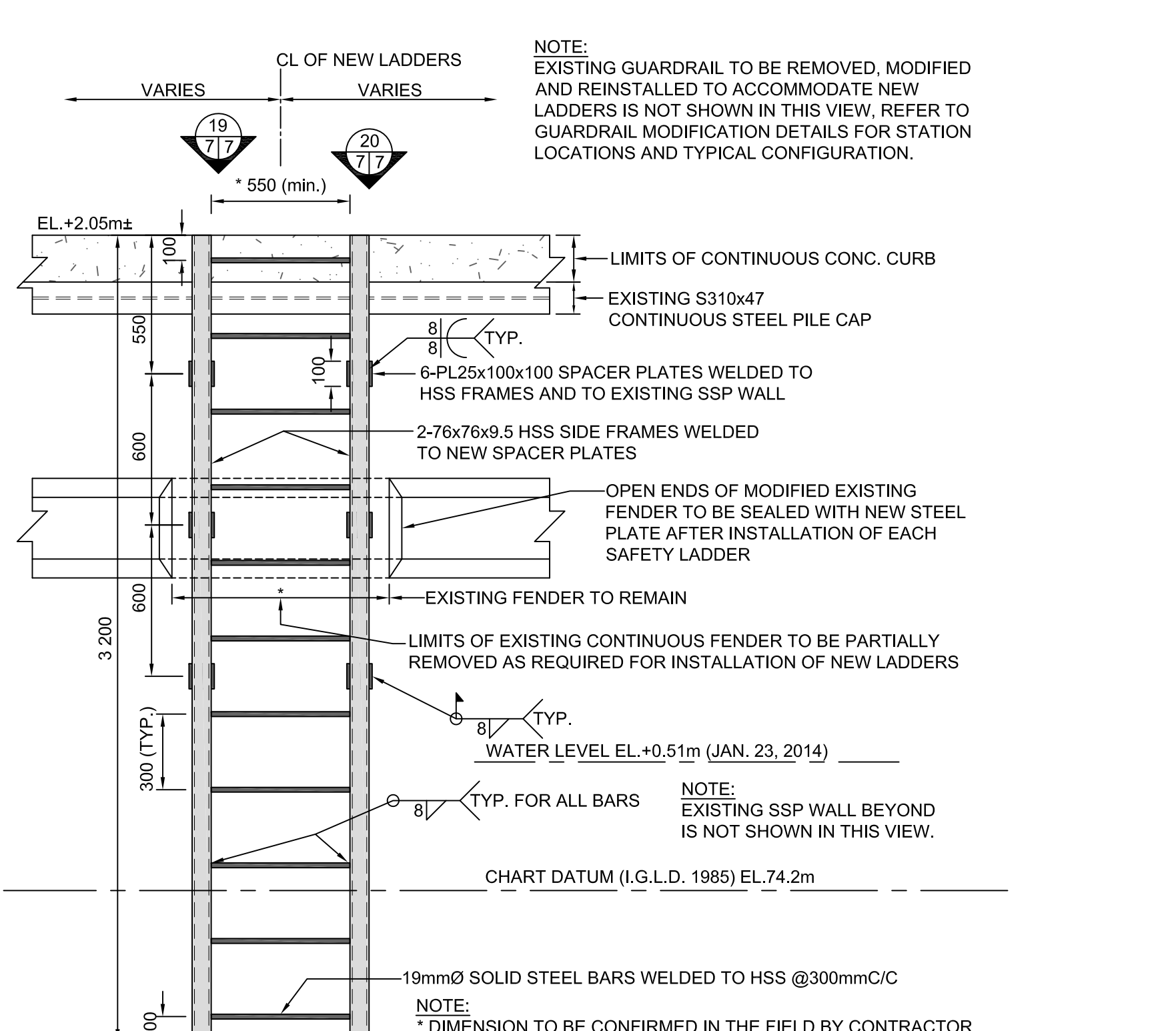


NOTE:  
 1) \* DIMENSION TO BE CONFIRMED IN THE FIELD BY CONTRACTOR PRIOR TO FABRICATION OF NEW SAFETY LADDERS.  
 2) EXISTING FENDER MODIFICATIONS ARE REQUIRED AT STATIONS 0+211E, 0+246.4E, AND 0+311E.  
 3) NEW STEEL SIDE PLATES ARE ONLY REQUIRED AT STATIONS 0+211E, 0+246.4E, AND 0+311E.  
 4) EXISTING SAFETY LADDERS TO BE FULLY REMOVED AT STATIONS 0+176.2E, 0+246.4E, 0+282.6E, AND 0+343.6E.  
 5) EAST SIDE - NEW TYPE 3 LADDERS ARE REQUIRED AT STATIONS 0+176.2E, 0+211E, 0+246.4E, 0+282.6E, 0+311E, 0+343.6E.

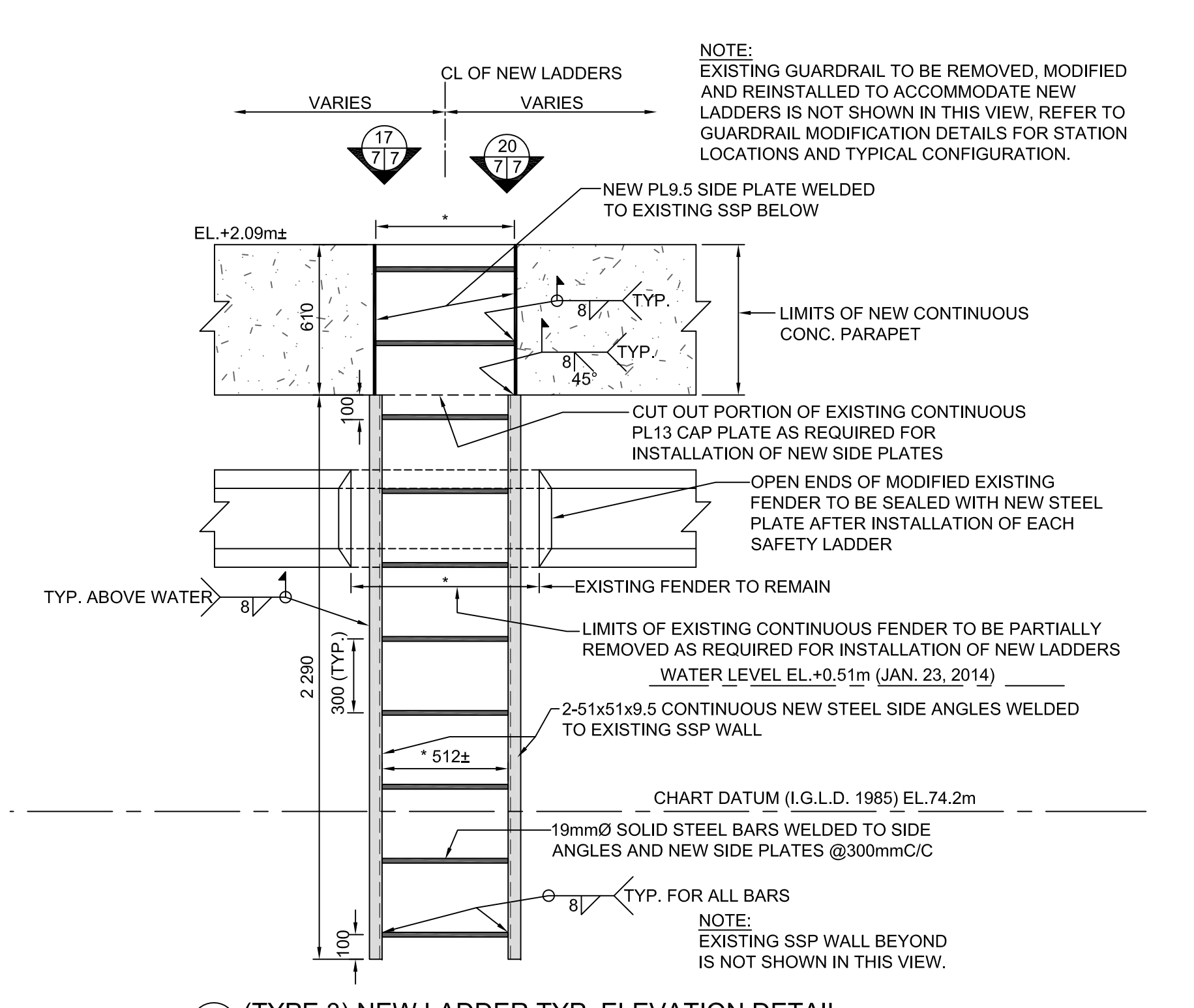
17 (TYPE 3) NEW LADDER TYP. PLAN DETAIL  
 SCALE: 1:10



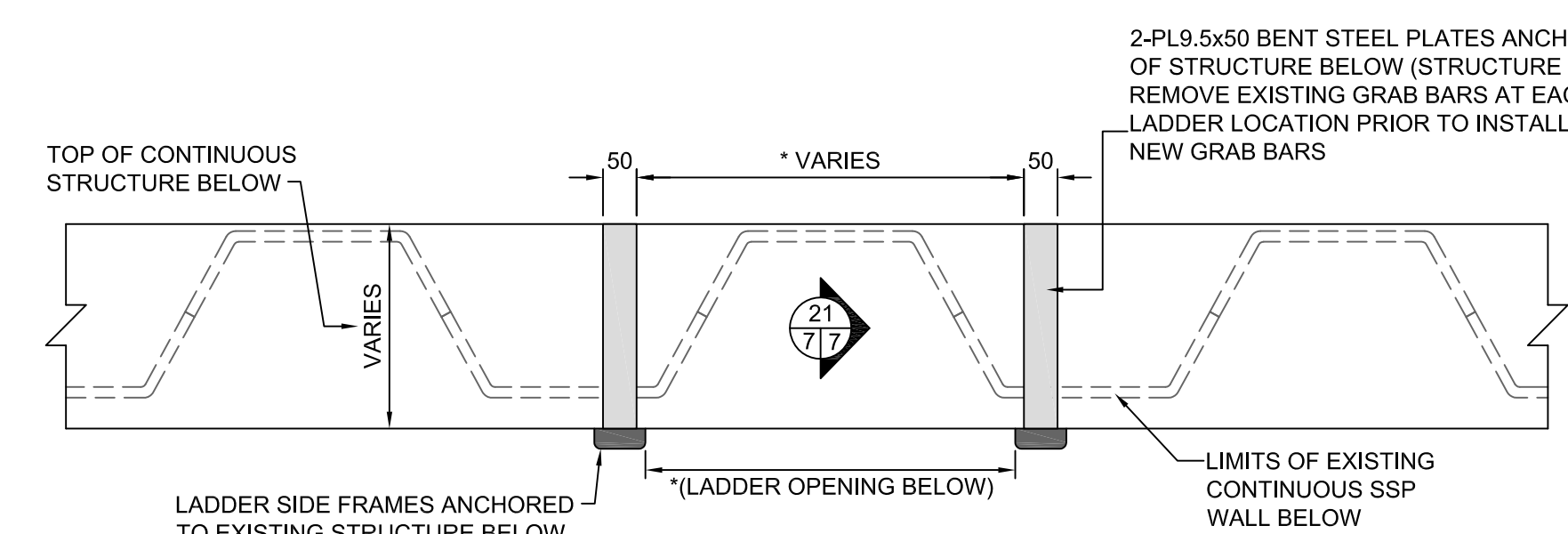
14 (TYPE 1 & 4) NEW LADDER TYP. ELEVATION DETAIL  
 SCALE: 1:20



18 (TYPE 2) NEW LADDER TYP. ELEVATION DETAIL  
 SCALE: 1:20

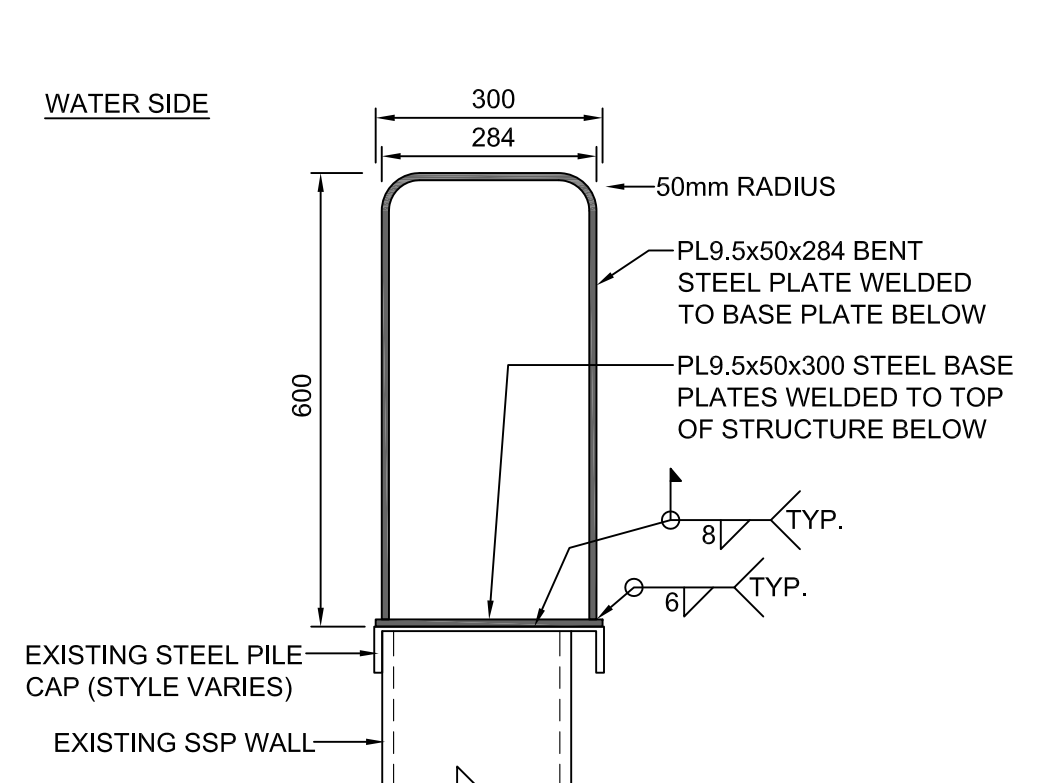


16 (TYPE 3) NEW LADDER TYP. ELEVATION DETAIL  
 SCALE: 1:20

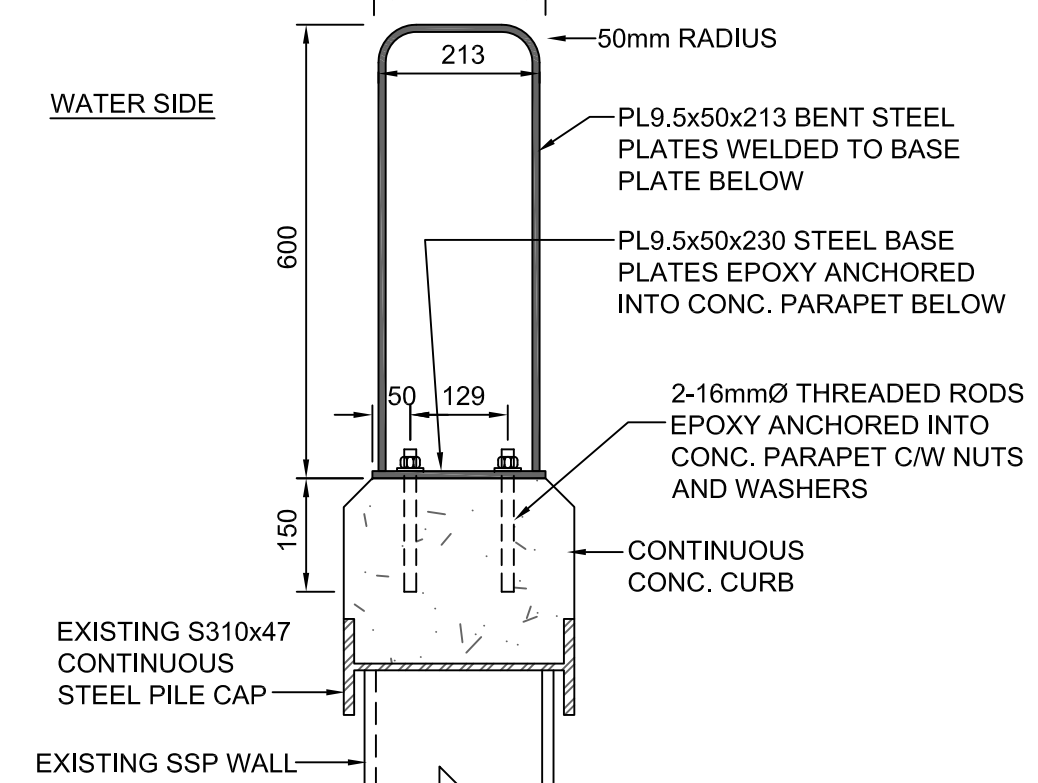


NOTE:  
 1) \* DIMENSION TO BE CONFIRMED IN THE FIELD BY CONTRACTOR PRIOR TO FABRICATION OF NEW SAFETY LADDERS.  
 2) EXISTING GRAB BARS TO BE FULLY REMOVED AT STATIONS 0+176.2E, 0+282.6E, 0+343.6E, 0+443E, 0+501E, 0+570.7E.  
 3) NEW GRAB BARS ARE REQUIRED AT ALL NEW LADDER LOCATIONS ON EAST PIER AND WEST PIER.

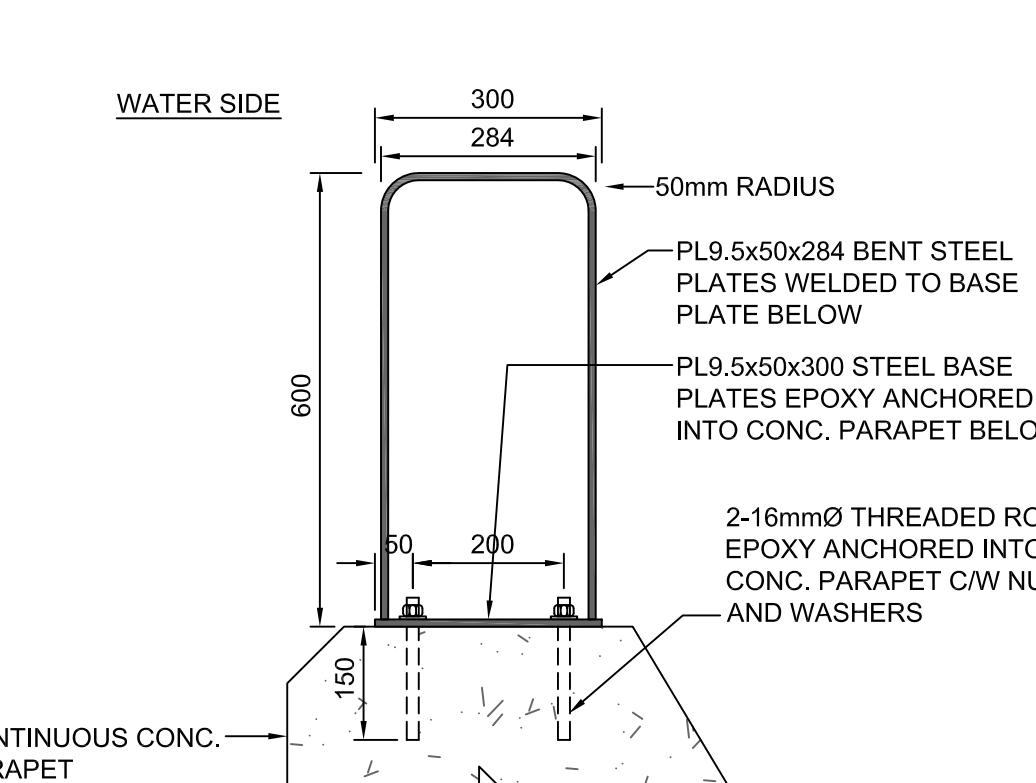
20 TYP. LADDER GRAB BAR PLAN DETAIL  
 SCALE: 1:10



TYPE 1 GRAB BARS  
 REQUIRED AT STATIONS 0+386.5E, 0+411.8E, 0+443E, 0+472E, 0+501E, 0+536E, 0+570.7E, 0+000W, 0+030W, 0+060W, 0+090W, 0+120W, 0+150W, 0+180W



TYPE 2 GRAB BARS  
 REQUIRED AT STATIONS 0+042.5E, 0+082.5E, 0+122.5E



TYPE 3 GRAB BARS  
 REQUIRED AT STATIONS 0+176.2E, 0+211E, 0+246.4E, 0+282.6E, 0+311E, 0+343.6E

21 TYP. LADDER GRAB BAR CONNECTION DETAILS  
 SCALE: 1:10

NOTE: NEW LADDERS ARE NOT SHOWN IN THESE DETAILS.

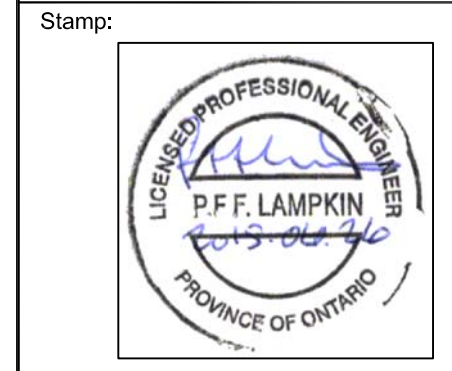


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SCALE: AS NOTED CLASS:

PROJECT: WHITBY HARBOUR WHARF REPAIRS

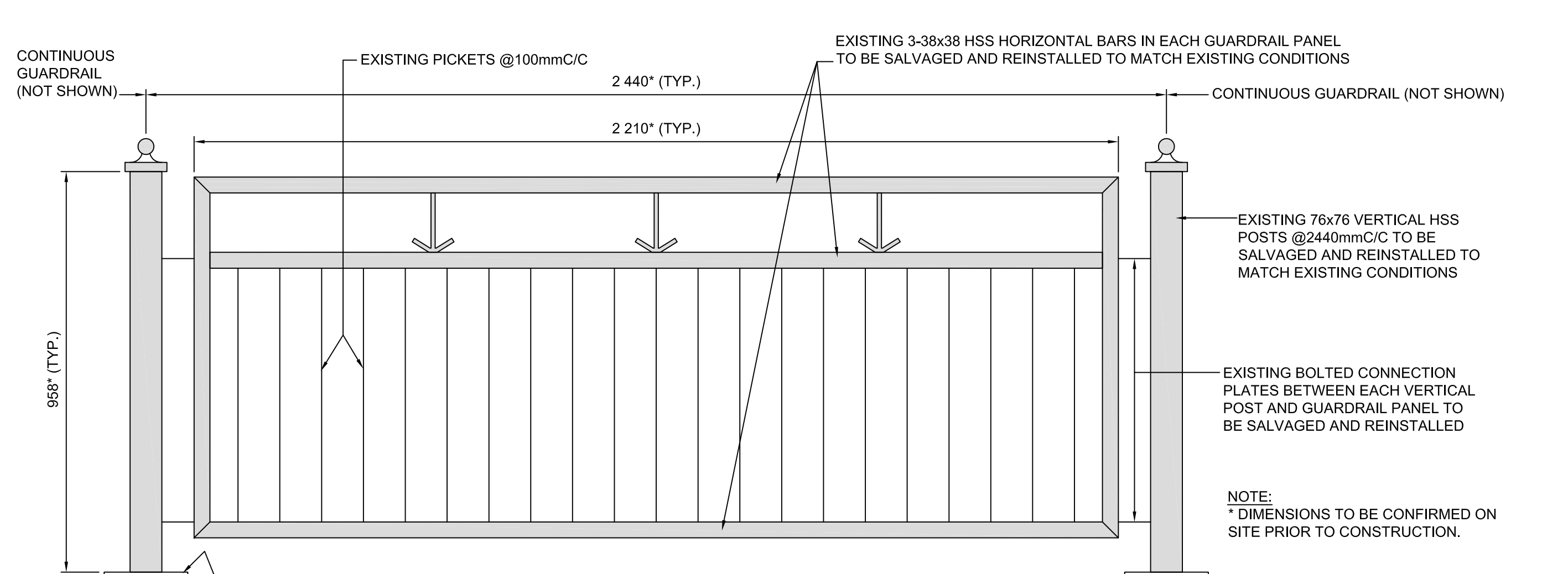
DESCRIPTION: TYP. REPAIR DETAILS

DRAWN: A.M APPROVED: P.L.

DATE: 2015-06-25 DATE: 2015-06-25

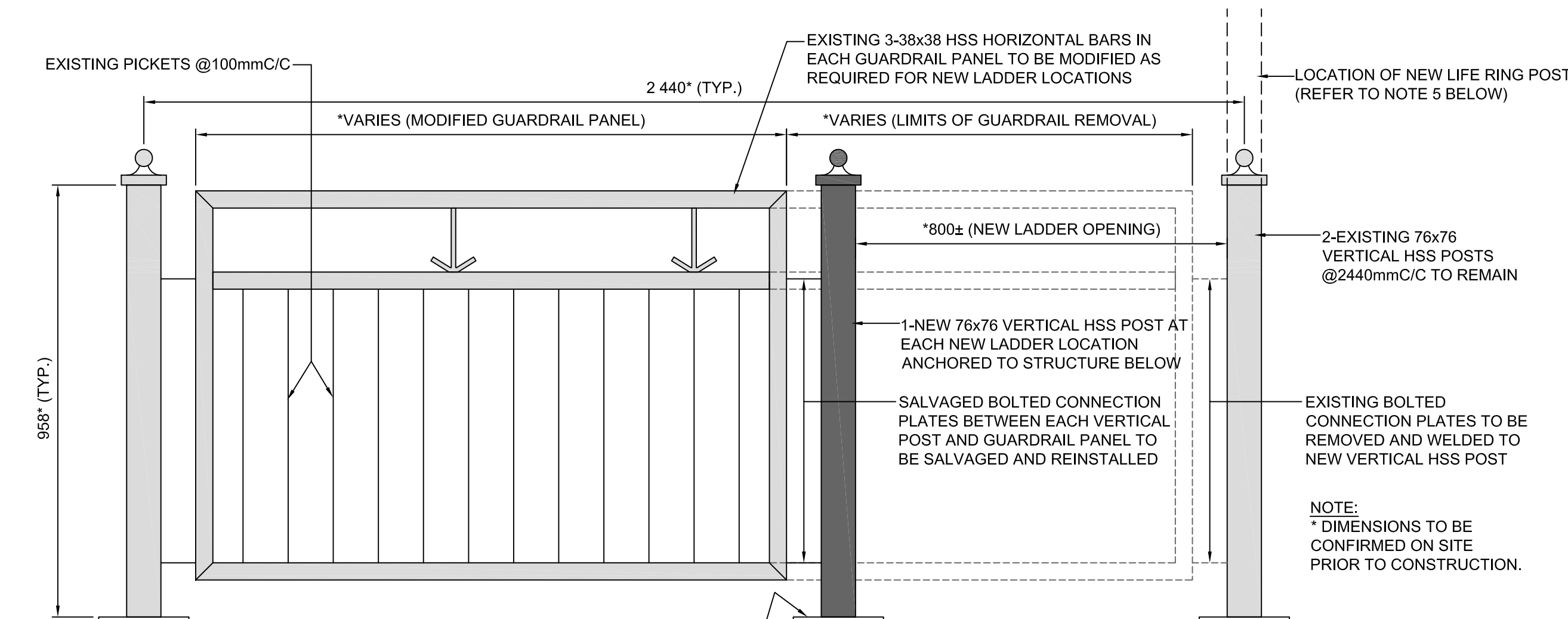
LOCATION: WHITBY, ONTARIO

DRAWING NO.: S-08 LOCATOR CODE: 721422



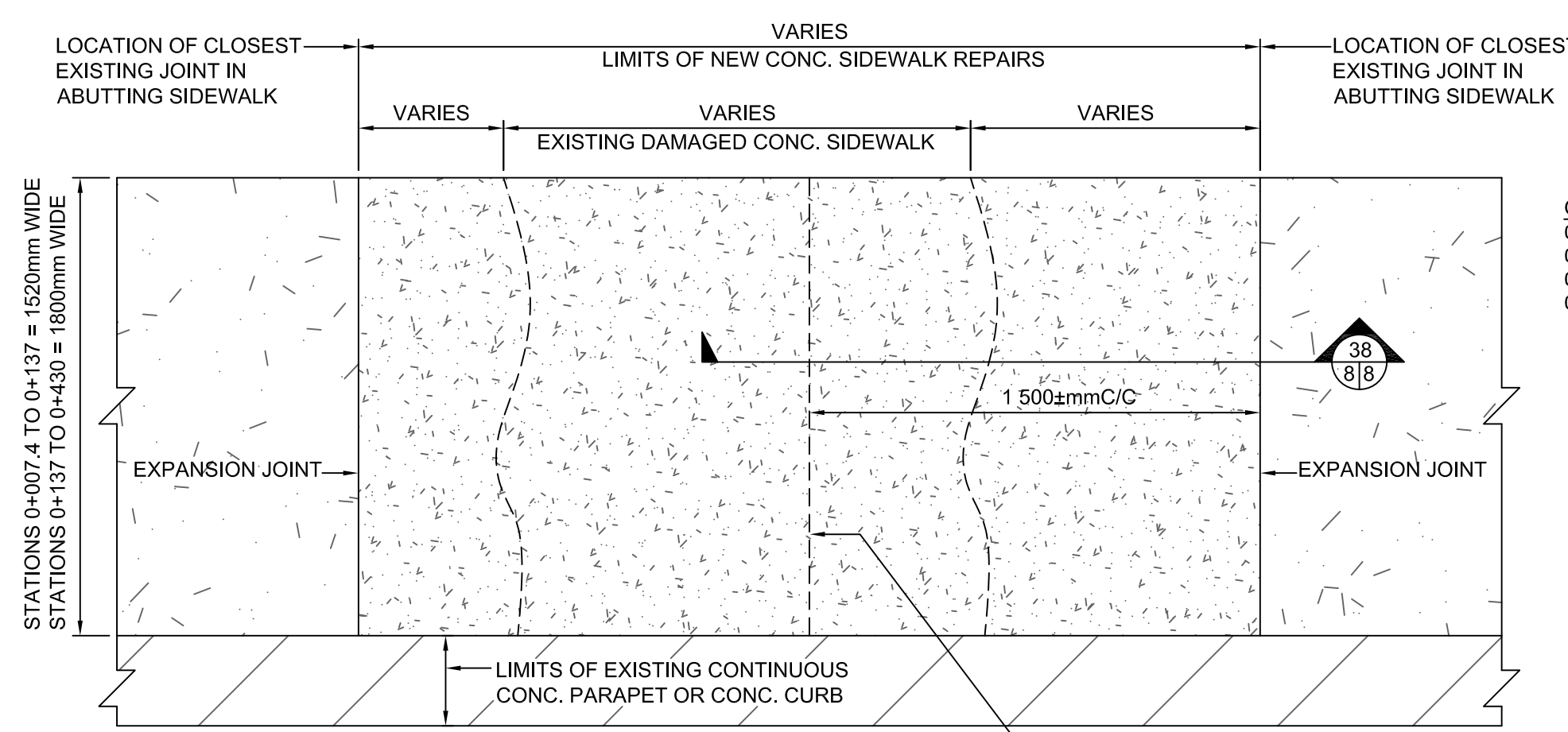
24 TYP. EXISTING GUARDRAIL DETAIL (STATIONS 0+000E TO 0+430.3±E)  
 SCALE: 1:10

- NOTE:  
 1) EXISTING GUARDRAIL TO BE REMOVED, SALVAGED AND REINSTALLED WITHIN LIMITS OF NEW CONC. CURB REPAIRS (REFER TO SITE PLAN FOR LIMITS).  
 2) \* DIMENSIONS TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION.  
 3) MARK GUARDRAIL AND POST WITH ORIGINAL STATIONS AND REINSTALL AT ORIGINAL LOCATIONS.



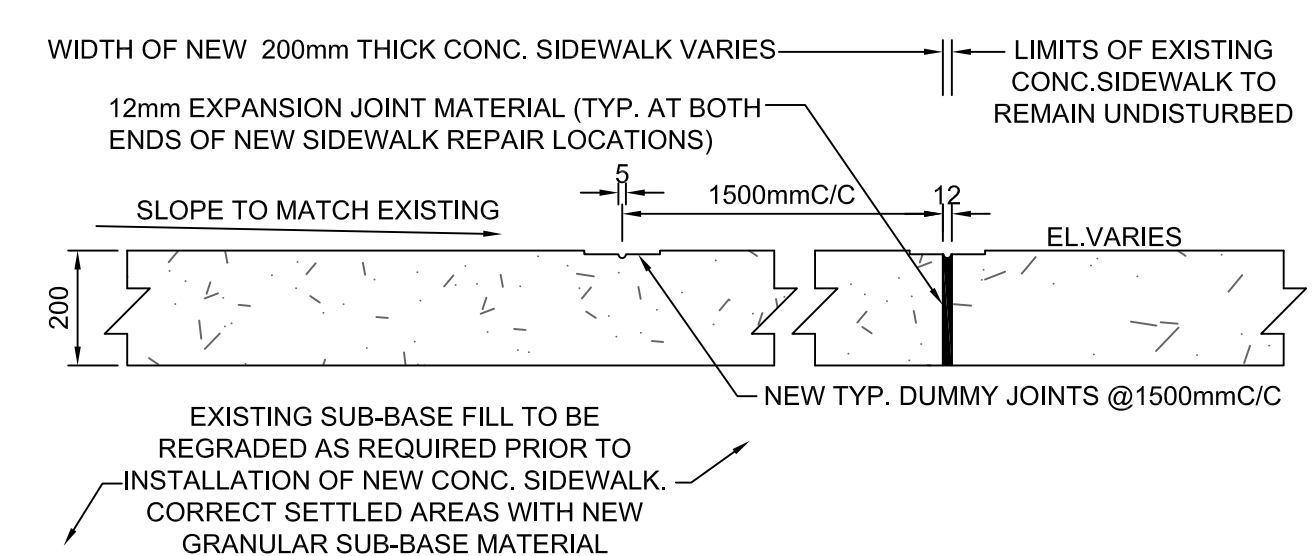
25 TYP. GUARDRAIL MODIFICATION DETAIL  
 SCALE: 1:10

- NOTE:  
 1) NEW LADDERS ARE NOT SHOWN IN THIS DETAIL.  
 2) GUARDRAIL MODIFICATIONS ARE REQUIRED AT STATIONS 0+042.5E, 0+082.5E, 0+122.5E, 0+211E, 0+246.4E, 0+313.1E, 0+386.5E, 0+414.75E.  
 3) \* DIMENSIONS TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO FABRICATION.  
 4) ALIGN NEW LADDER OPENINGS TO NEAREST POST AND SSP IN PLAN FOR STATIONS NOTED ABOVE.  
 5) INCLUDE A NEW LIFE RING POLE (NOT DETAILED) AT EACH NEW LADDER OPENING. NEW LIFE RING POLES TO BE FABRICATED TO MATCH EXISTING POLES AND TO BE MOUNTED TO CLOSEST EXISTING GUARDRAIL POST TO MATCH EXISTING MOUNTING CONDITIONS.

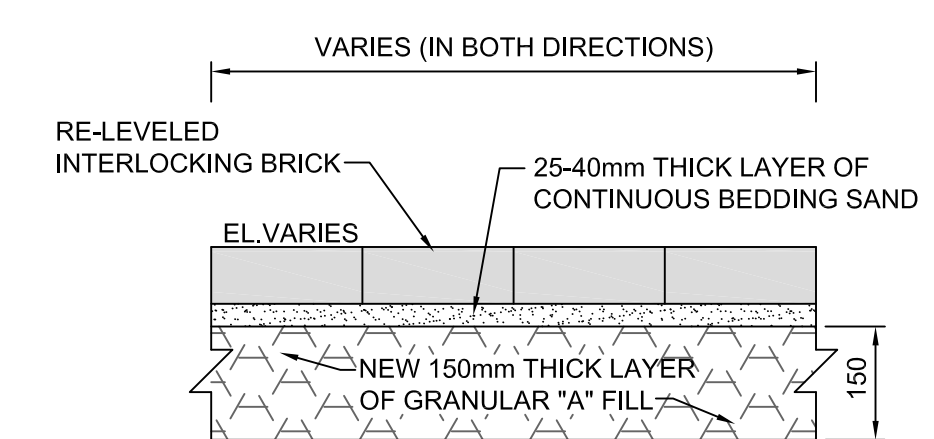


37 TYP. CONC. SIDEWALK REPAIR DETAIL PLAN  
 SCALE: 1:20

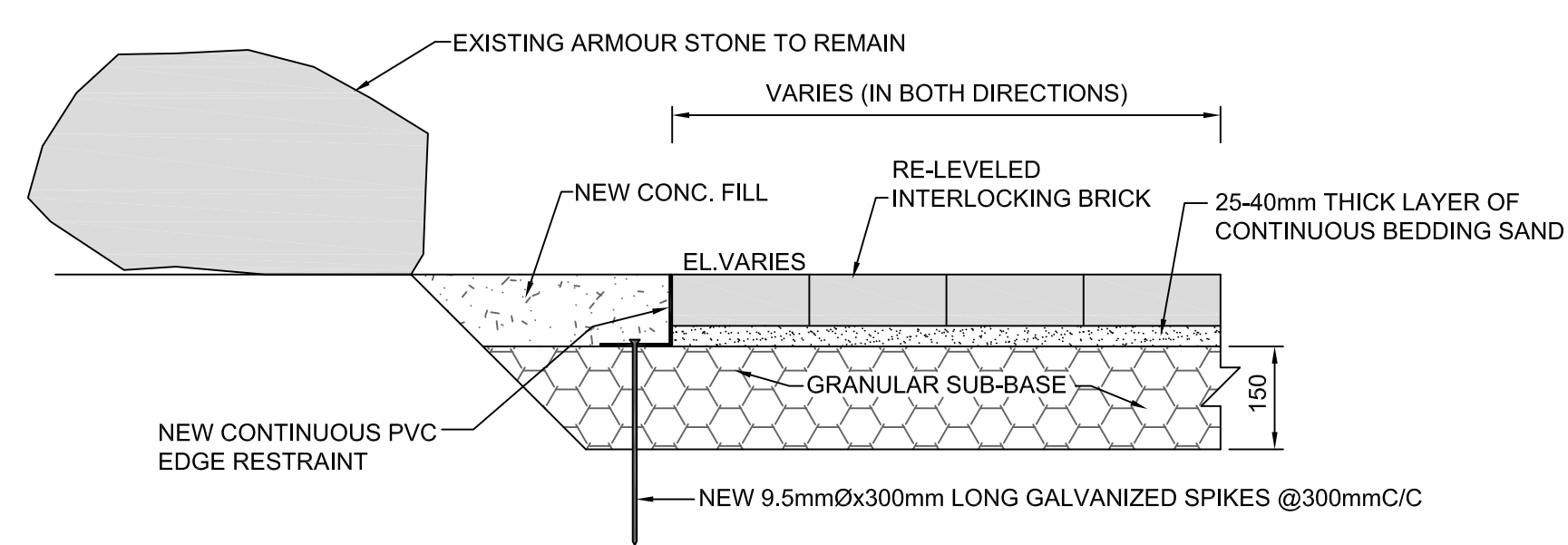
- CONC. SIDEWALK REPAIR LIMITS  
 0+007.4 TO 0+008.9  
 0+129.8 TO 0+131.3  
 0+134.5 TO 0+136.0  
 0+254.4 TO 0+260.5



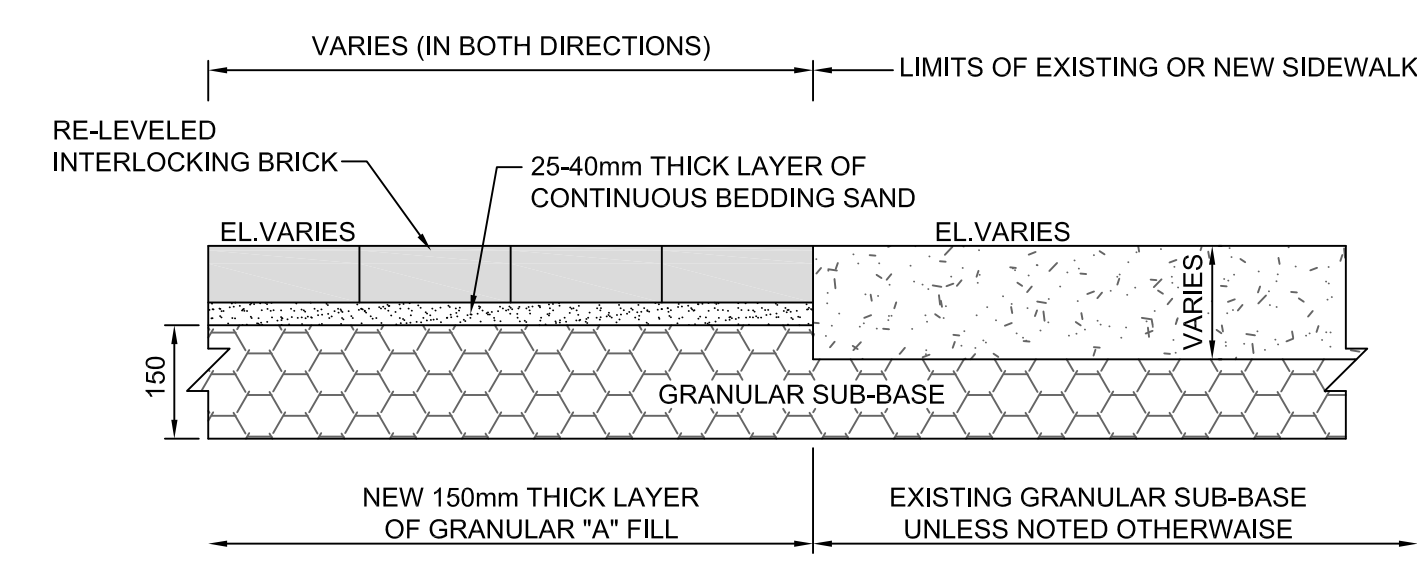
38 SIDEWALK REPAIR JOINT DETAILS  
 SCALE: 1:10



36 TYP. UNIT PAVER RESTORATION REPAIR DETAIL  
 SCALE: 1:10



22 TYP. UNIT PAVER RESTORATION WITH EDGE RESTRAINT  
 SCALE: 1:10



33 TYP. UNIT PAVER RESTORATION AT SIDEWALK  
 SCALE: 1:10

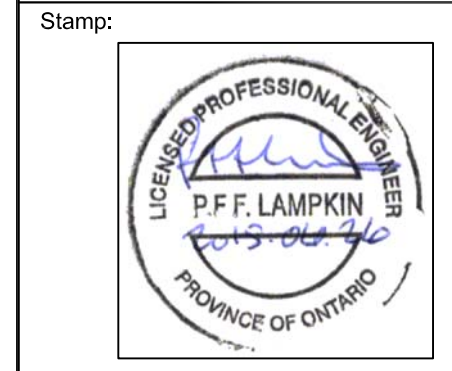
STATION LIMITS	UNIT PAVER RESTORATION WIDTH OF REPAIR (mm)	COMMENT
0+007.4 TO 0+008.9	550	Along east edge of sidewalk
0+129.8 TO 0+131.3	550	Along east edge of sidewalk
0+134.5 TO 0+136.0	550	Along east edge of sidewalk
0+254.4 TO 0+260.5	550	Along east edge of sidewalk
0+121 TO 0+122	750	Along east edge of unit paver walkway
0+260.6 TO 0+261.6	750	Along east edge of sidewalk
0+276.9 TO 0+277.9	750	At depression beyond east edge of sidewalk
0+304.4 TO 0+307.4	750	Along east edge of sidewalk
0+367 TO 0+400	750	Along east edge of sidewalk
0+427.3 TO 0+430.3	8750	At junction with new East Pier concrete deck
STATION LIMITS	UNIT PAVER RESTORATION WITH EDGE RESTRAINT WIDTH OF REPAIR (mm)	COMMENT
0+239.6 TO 0+251.6	350	Along curve of east edge of unit paver walkway

SMALL CRAFT HARBOURS  
CENTRAL AND ARCTIC REGION



**Riggs Engineering Ltd.**  
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 Fax: (519) 657 8631  
 Website: www.riggsengineering.com

- 1 Detail No.
- 2 drawing no. - where detail required refers to MA-
- 3 drawing no. - where detailed refers to MA-



NOTES:

REVISIONS:	DATE:

SCALE: **AS NOTED** CLASS:

PROJECT:  
**WHITBY HARBOUR WHARF REPAIRS**

DESCRIPTION:  
**SITE PLAN OF NEW SCOUR MAT LOCATIONS**

DRAWN: **A.M** APPROVED: **P.L.**

DATE: **2015-06-25** DATE: **2015-06-25**

LOCATION:  
**WHITBY, ONTARIO**




DRAWING NO.: **S-09** LOCATOR CODE: **721422**

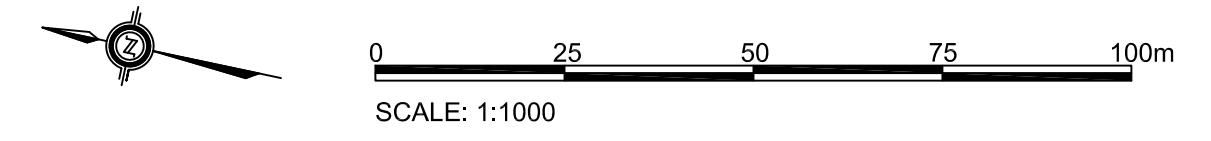


NOTE:  
NEW SCOUR MATS ARE NOT FULLY DETAILED IN THIS SOUNDING PLAN, REFER TO SHEET S-10 FOR DETAILS OF EACH NEW SCOUR MAT.

- Soundings are valid only for the date and time they were taken.
- This plan is NOT FOR NAVIGATION
- In the ordinary practice of good seamanship, navigators use updated hydrographic charts for navigation of their vessels.

**LEGEND:**

-  MAJOR SUBMERGED DEPTH CONTOUR BELOW CHART DATUM
-  SOUNDING DEPTH 3.7 METERS BELOW CHART DATUM
-  NAVIGATIONAL LIGHT



- NOTES:**
1. SOUNDINGS WERE TAKEN ON DECEMBER 6, 2013.
  2. SOUNDINGS ARE SHOWN IN METERS BELOW CHART DATUM.
  3. CHART DATUM FOR LAKE ONTARIO IS 74.2 METERS ABOVE SEA LEVEL (IGLD 1985).
  4. WATER LEVEL AT THE TIME OF THE SURVEY WAS 0.34 METERS ABOVE CHART DATUM.
  5. VERTICAL CONTROL ESTABLISHED FROM CHS GAUGE TORONTO.
  6. COORDINATE GRID REFERS TO UTM NAD83 ZONE 17.
  7. POSITIONING SYSTEM - HEMISPHERE R320
  8. SOUNDER - RESON NAVISOUND 110
- \* THE SOUNDING INFORMATION REPRESENTS RESULTS OF THE SURVEY MADE ON THE DATES SPECIFIED AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THAT TIME.

SMALL CRAFT HARBOURS  
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- 1 Detail No.
- 2 drawing no. - where detail required refers to MA-
- 3 drawing no. - where detailed refers to MA-

Stamp:



NOTES:

REVISIONS:	DATE:

SCALE: **AS NOTED** CLASS:

PROJECT:  
**WHITBY HARBOUR WHARF REPAIRS**

DESCRIPTION:  
**NEW SCOUR MAT TYP. SECTIONS**

DRAWN: **A.M** APPROVED: **P.L.**

DATE: **2015-06-25** DATE: **2015-06-25**

LOCATION:  
**WHITBY, ONTARIO**

DRAWING NO.: **S-10** LOCATOR CODE: **721422**

