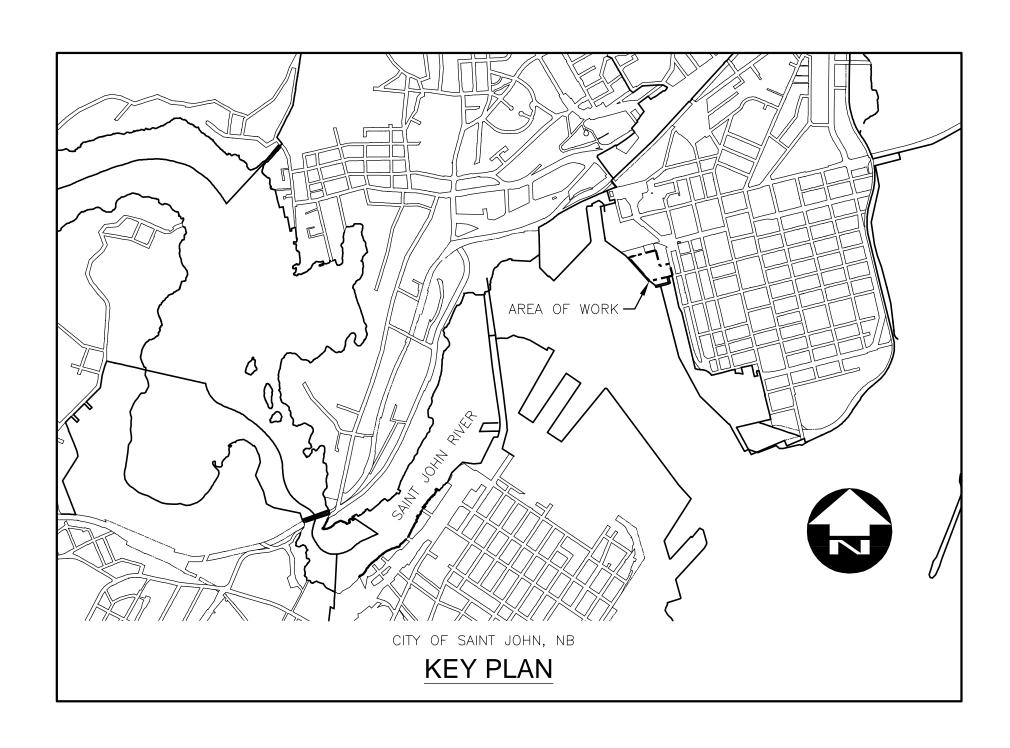
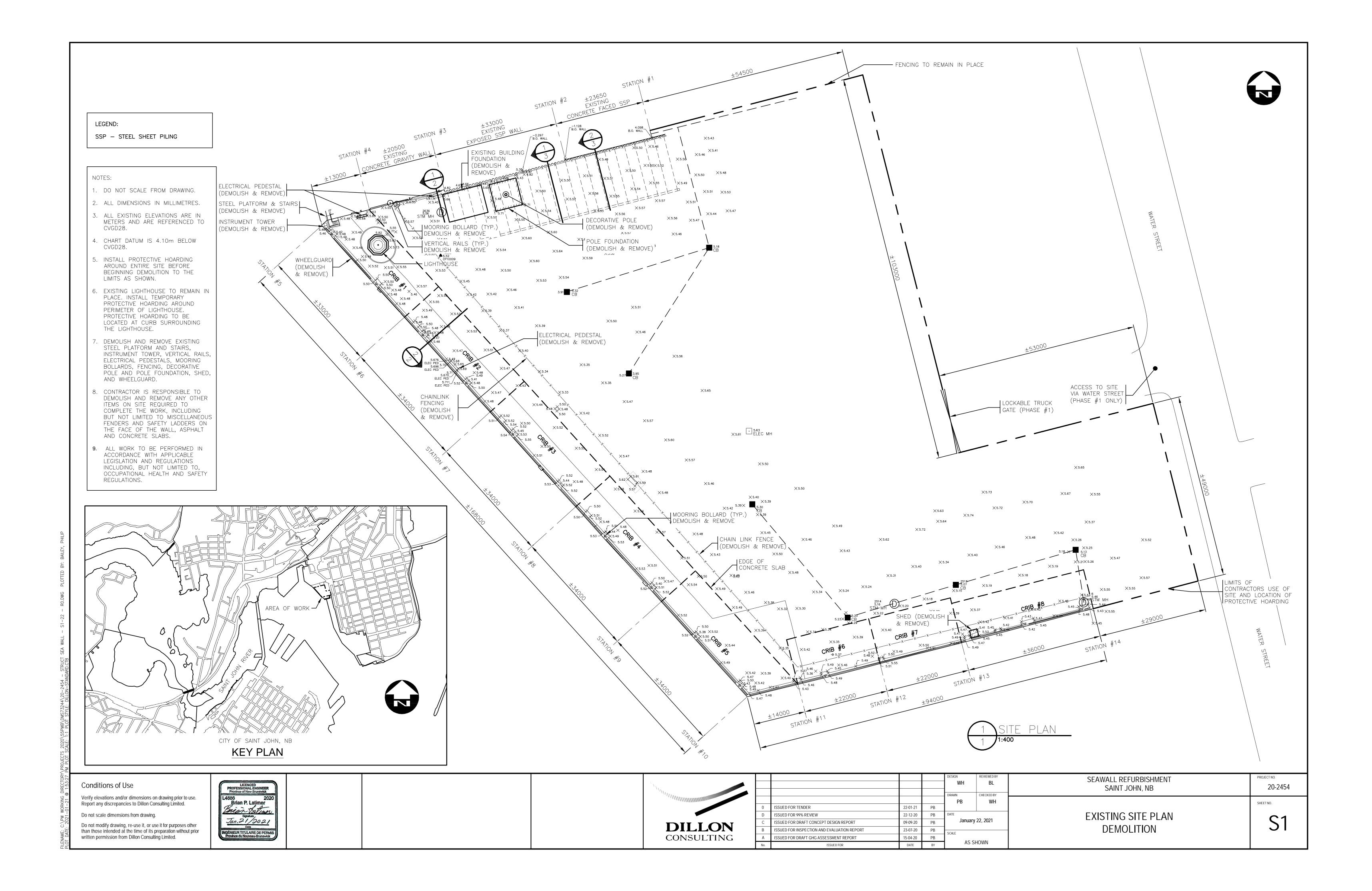
SEAWALL REFURBISHMENT SAINT JOHN, NEW BRUNSWICK CITY OF SAINT JOHN

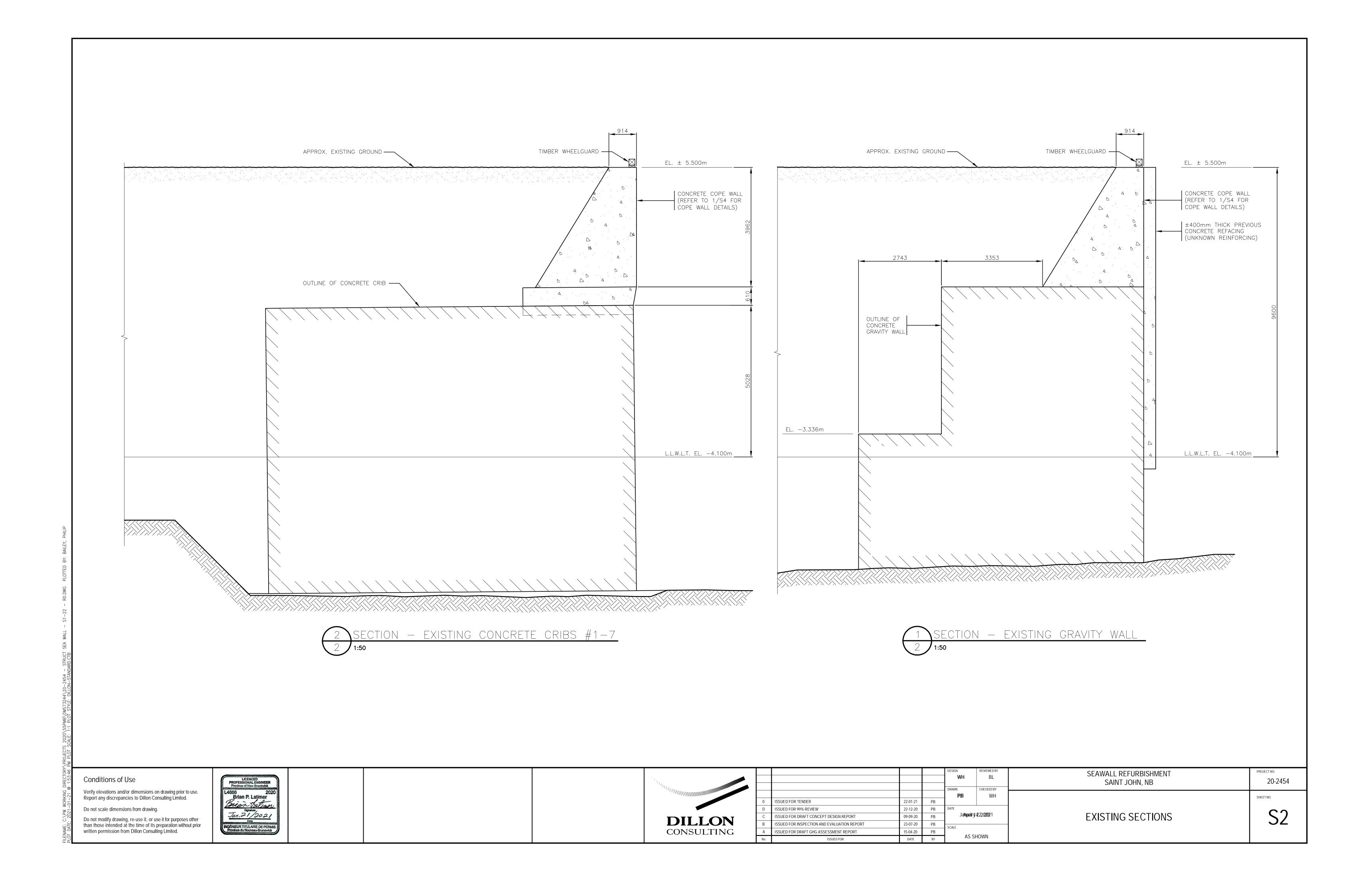


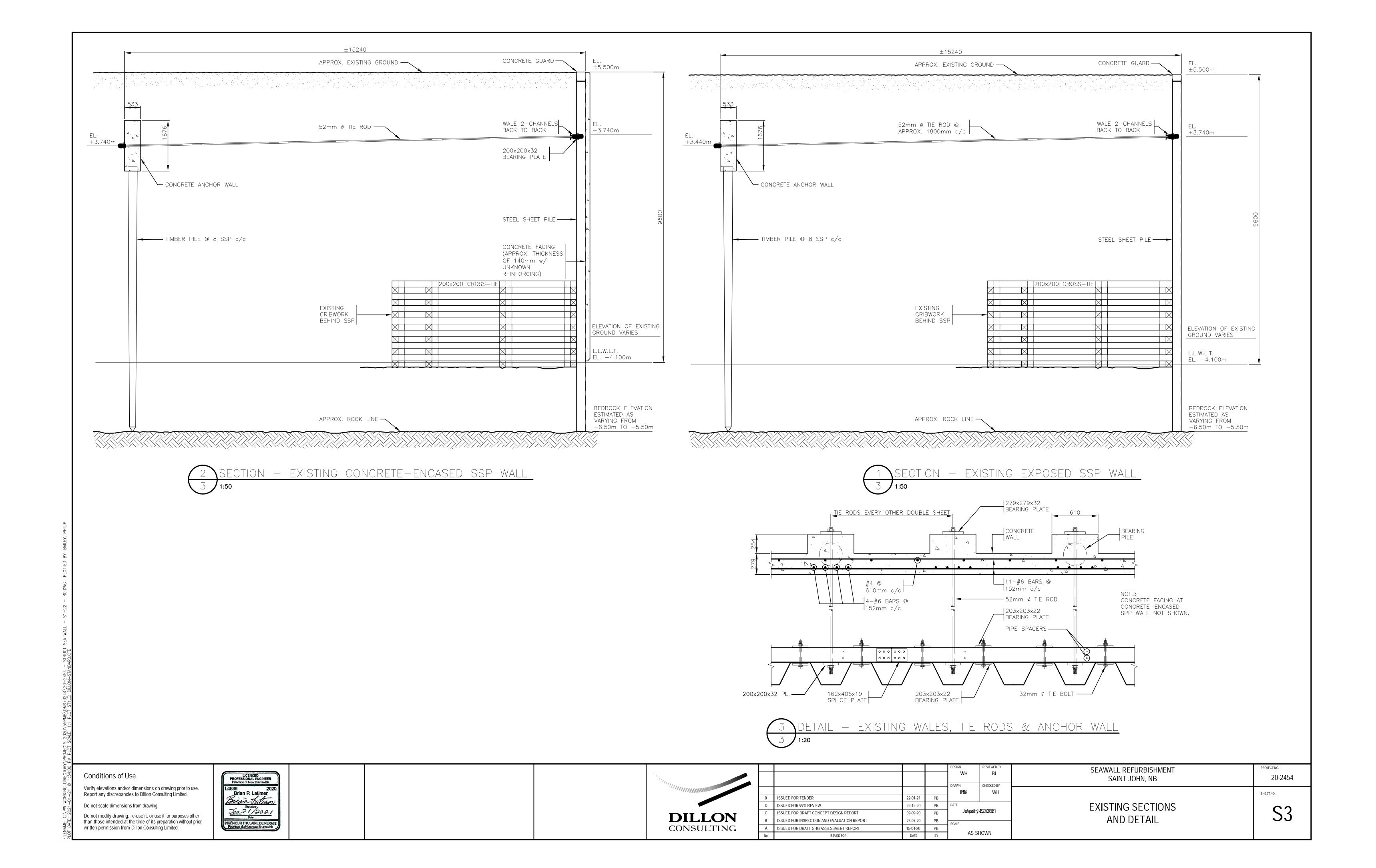
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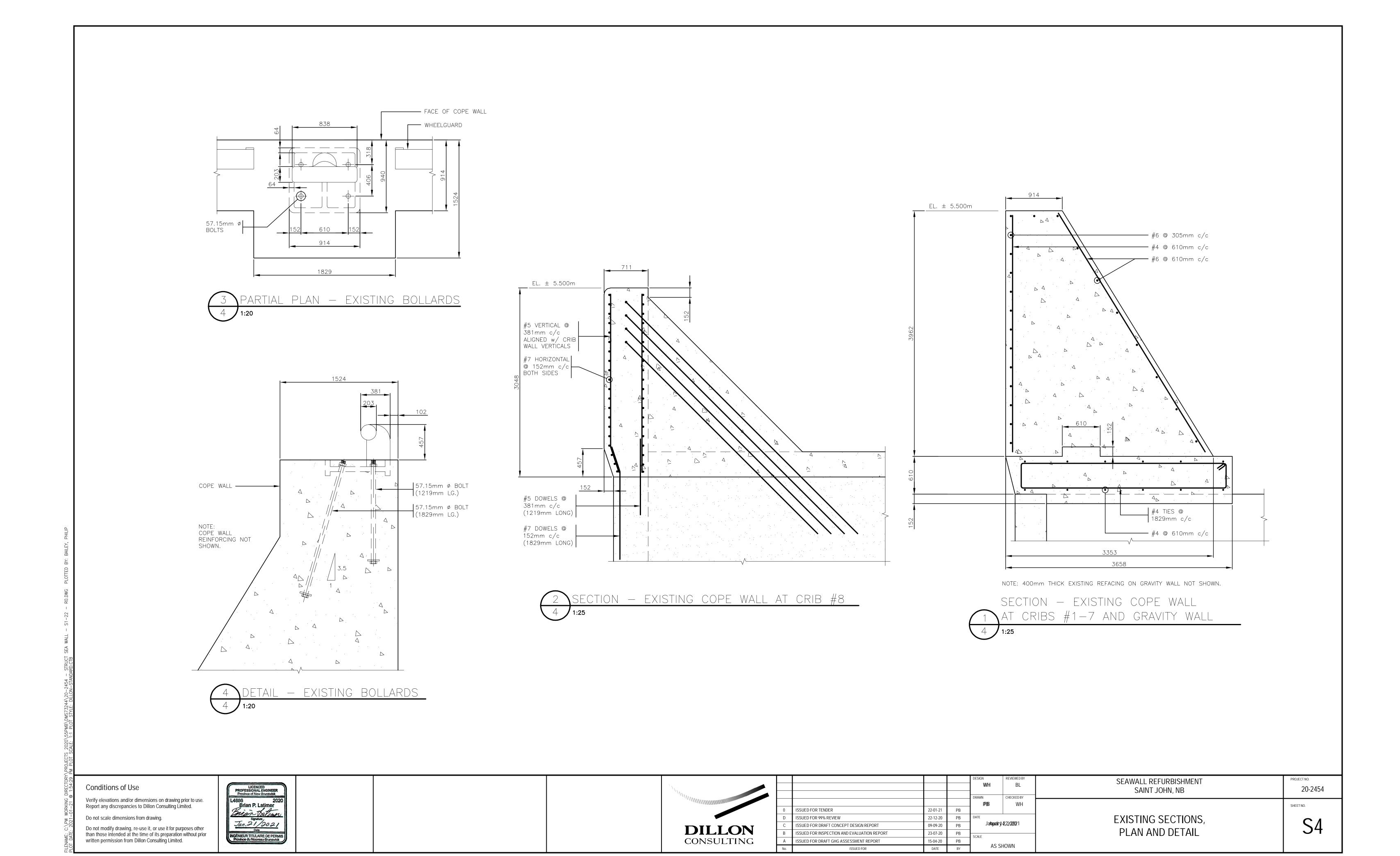
- S1 EXISTING SITE PLAN DEMOLITION
- S2 EXISTING SECTIONS
- S3 EXISTING SECTIONS AND DETAIL
- S4 EXISTING SECTIONS, PLAN AND DETAIL
- S5 EXISTING ELEVATIONS STATIONS #3-9 DEMOLITION S6 - EXISTING ELEVATIONS STATIONS #9-14 - DEMOLITION
- S7 TYPE 1-3 CONCRETE REMOVALS
- S8 TYPE 4-9 CONCRETE REMOVALS
- S9 NEW SITE PLAN
- S10 NEW WALL ELEVATIONS STATIONS #1-9
- S11 NEW WALL ELEVATIONS STATIONS #9-14 S12 - SECTIONS - NEW STEEL SHEET PILING
- S13 REFACING AND TIEBACK SYSTEM AT EXISTING CONCRETE-FACED SSP
- S14 SSP TIEBACK EXCAVATION STAGING
- S15 SECTION AND DETAILS SSP AND TIEBACK SYSTEM
- S16 SECTION AND DETAILS SSP TOE PINNING, ANCHOR WALL, AND TRANSITIONS
- S17 KEYWAY WALL EXTENSION
- S18 SECTIONS CRIB AND GRAVITY WALL REFACING
- S19 DETAILS CRIB AND GRAVITY WALL REFACING
- S20 NEW RAISED WALL
- S21 MOORING BOLLARD AND CLEAT SECTIONS AND DETAILS
- S22 EXPANSION JOINT AND SAFETY LADDER
- S23 ARCHITECTURAL FORM LINER TREATMENT AT NORTH WALL (STATIONS #1-5)
- S24 ARCHITECTURAL FORM LINER TREATMENT AT SOUTH WALL (STATIONS #10-14)
- S25 SEWER OUTFALL DEMOLITION DETAILS
- C1 STORM SEWER OUTFALL PLAN & PROFILE STA. 0+000 STA. 0+060
- C2 STORM SEWER OUTFALL DETAILS

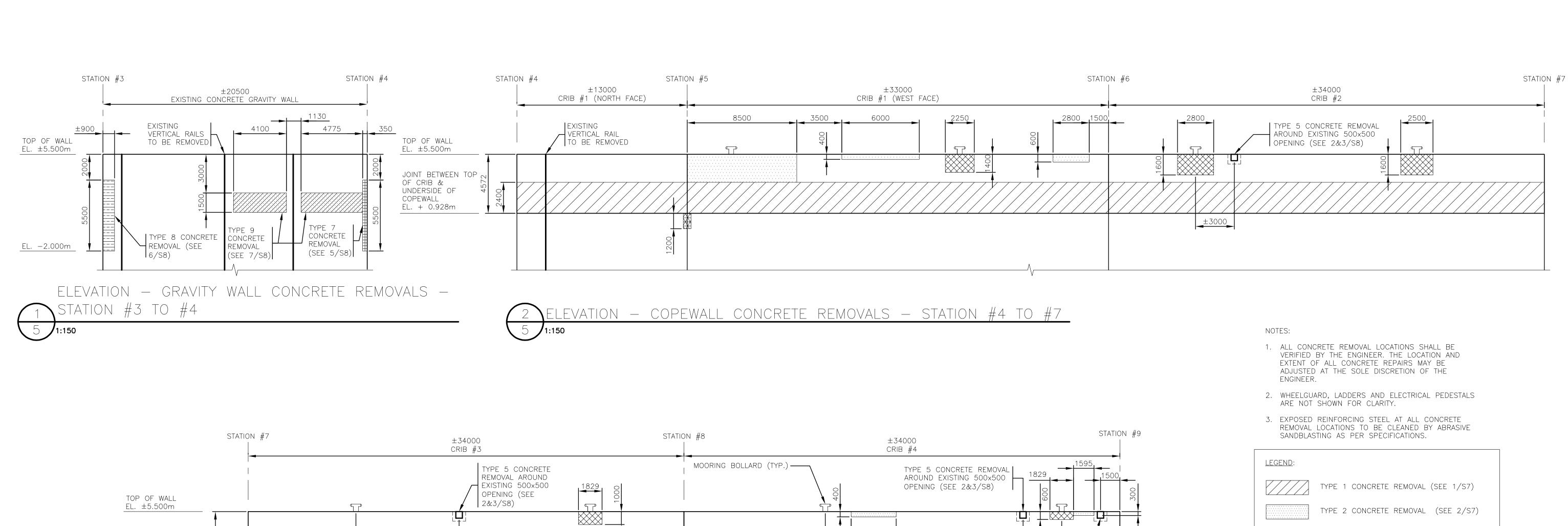






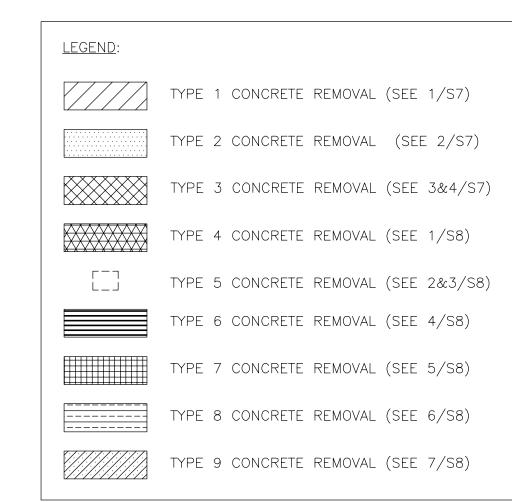






3 ELEVATION - COPEWALL CONCRETE REMOVALS - STATION #7 TO #9

±8000



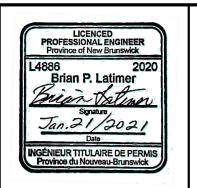
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JOINT BETWEEN TOP

OF CRIB & UNDERSIDE OF

EL. + 0.928m

COPEWALL

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TYPE 5 CONCRETE REMOVAL AROUND EXISTING 500x500 OPENING (SEE 2&3/S8)

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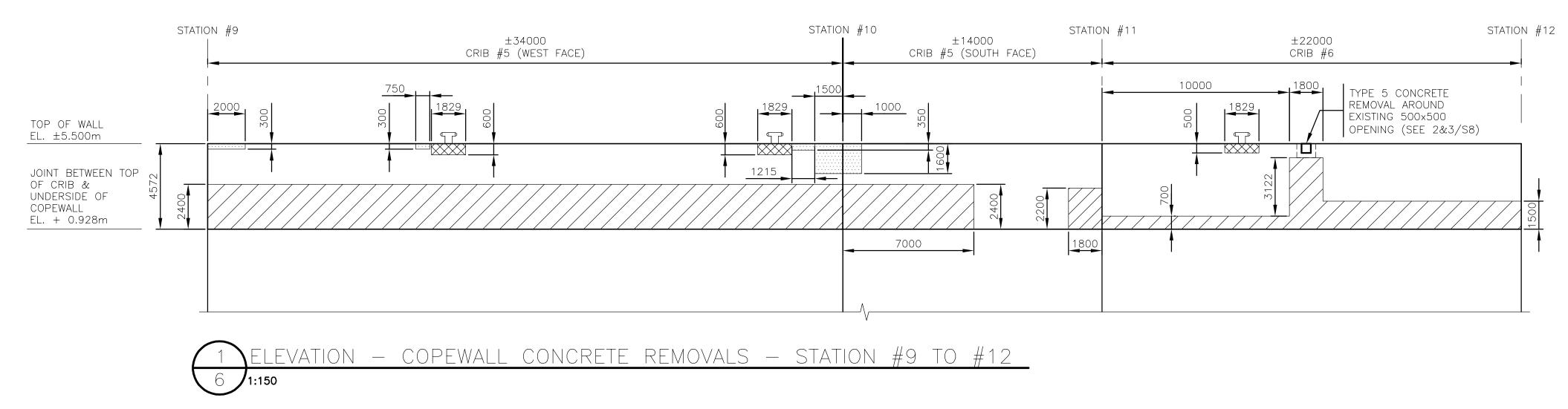
EXISTING ELEVATIONS
STATIONS #3-9 - DEMOLITION

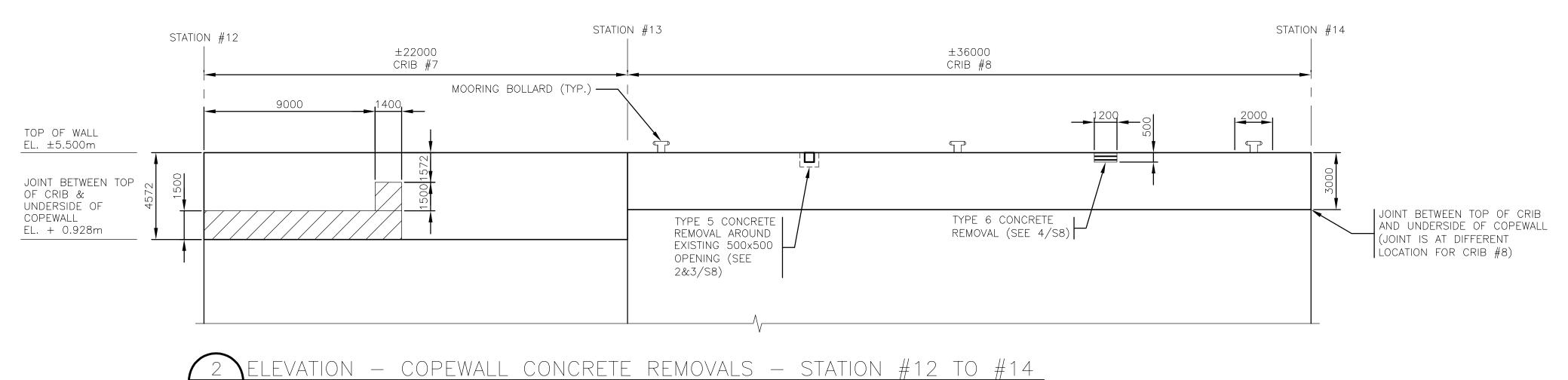
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EVATIONS SHEET NO.

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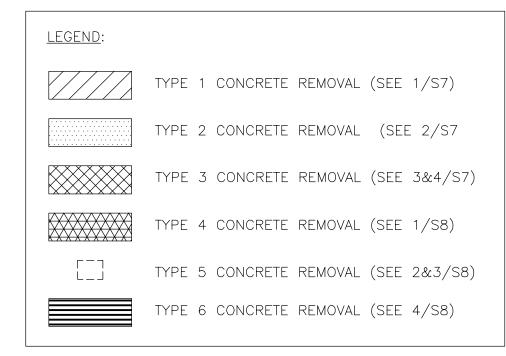
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NOTES:

- 1. ALL CONCRETE REMOVAL LOCATIONS SHALL BE VERIFIED BY THE ENGINEER. THE LOCATION AND EXTENT OF ALL CONCRETE REPAIRS MAY BE ADJUSTED AT THE SOLE DISCRETION OF THE ENGINEER.
- 2. WHEELGUARD, LADDERS AND ELECTRICAL PEDESTALS ARE NOT SHOWN FOR CLARITY.
- 3. EXPOSED REINFORCING STEEL AT ALL CONCRETE REMOVAL LOCATIONS TO BE CLEANED BY ABRASIVE SANDBLASTING AS PER SPECIFICATIONS.



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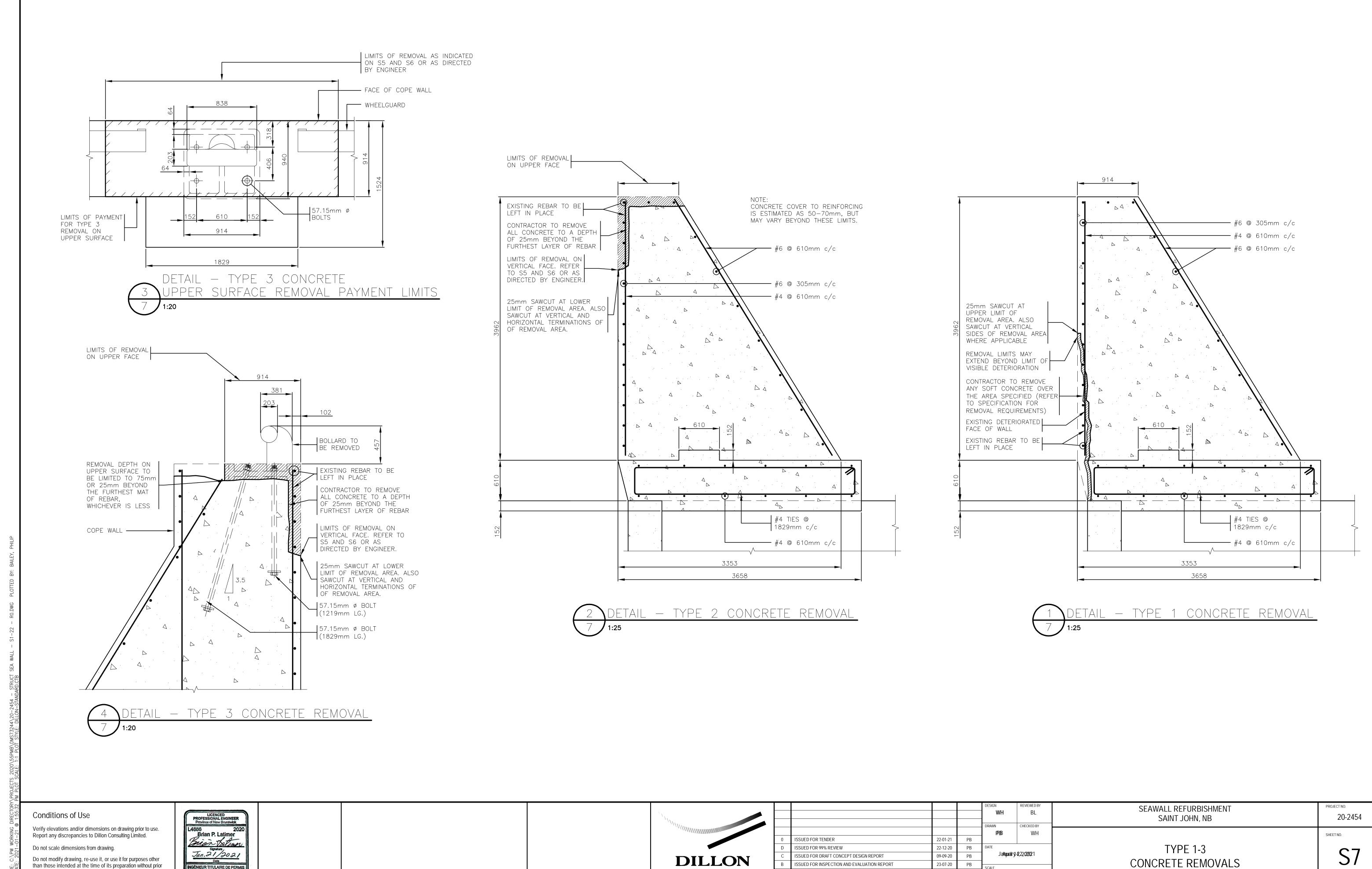


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AS SHOWN		STATIONS#7-14 - DEMOCITION

SEAWALL REFURBISHMENT

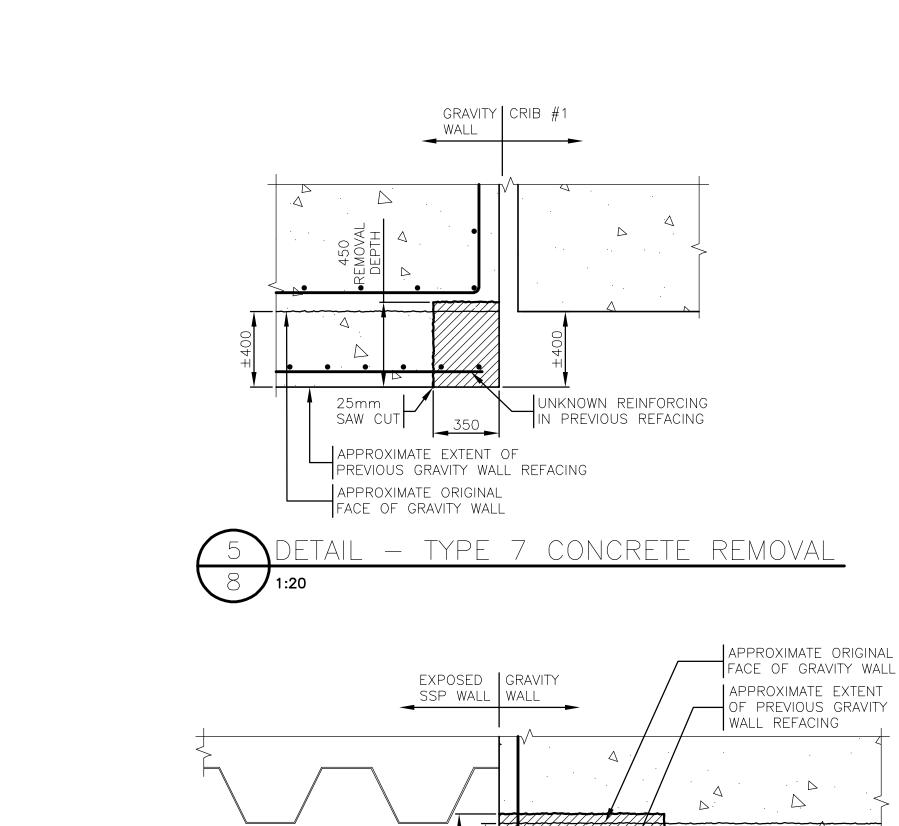


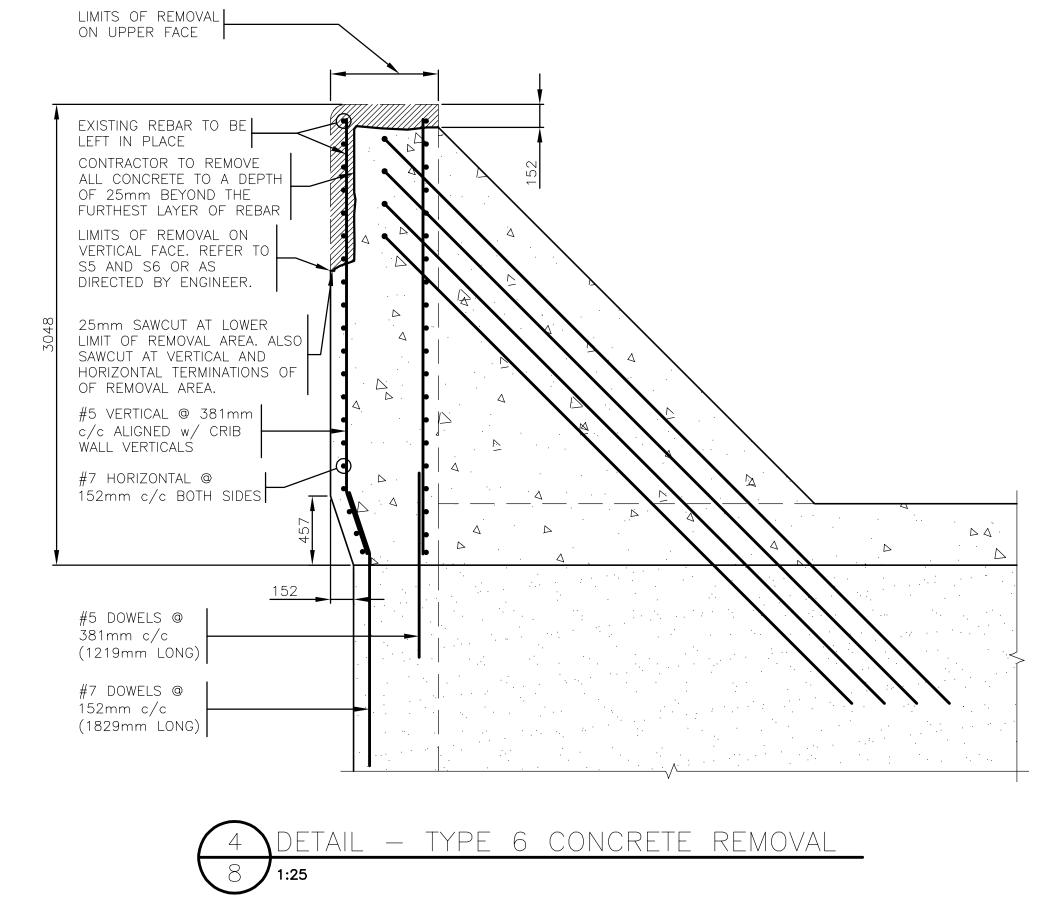
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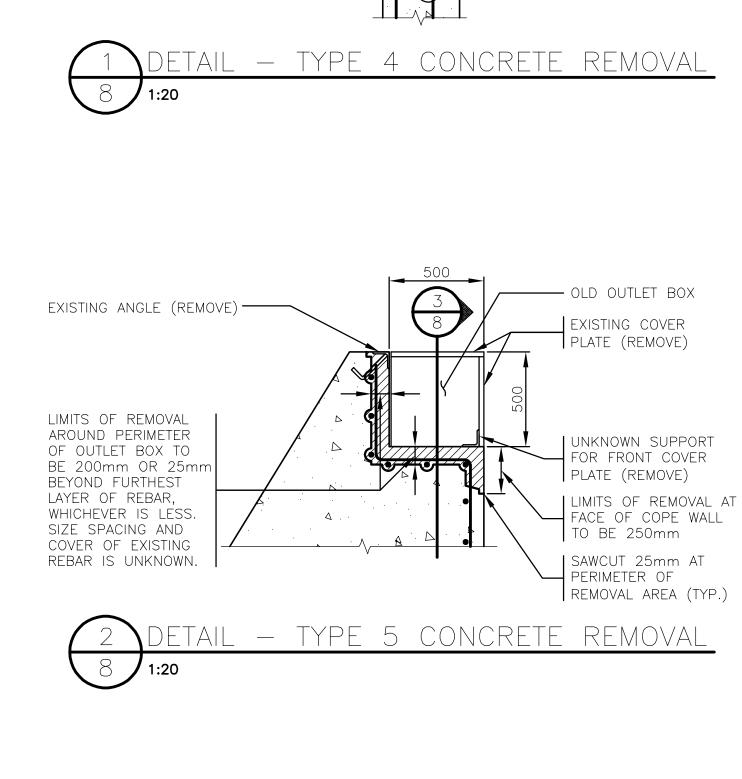
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ESTIMATED

EXISTING COVER TO

REINFORCING

EXISTING SPALLED CORNER

REMOVE EXISTING CONCRETE 25mm

BEYOND VERTICAL

BAR AT CORNER

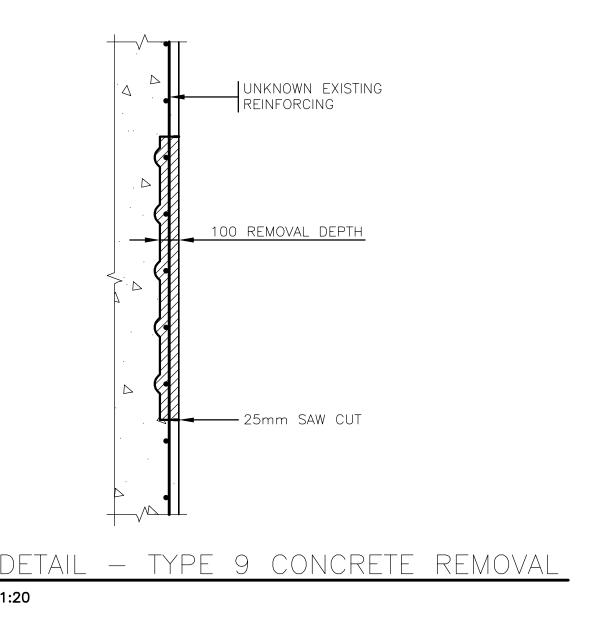
SAWCUT 25mm DEEP. ALSO SAWCUT AT LOWER

HORIZONTAL LIMIT

—— #6 @ 305mm c/c

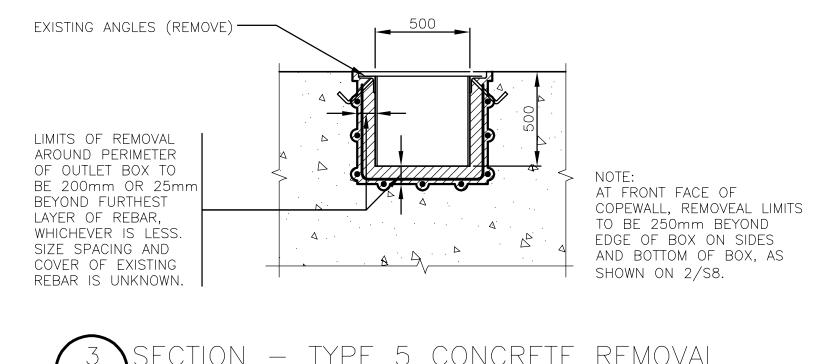
OF REMOVAL.

→ #5 @ 305mm c/c



ETAIL - TYPE 8 CONCRETE REMOVAL

UNKNOWN EXISTING REINFORCING



SEAWALL REFURBISHMENT

ION - TYPE 5 CONCRETE REMOVAL

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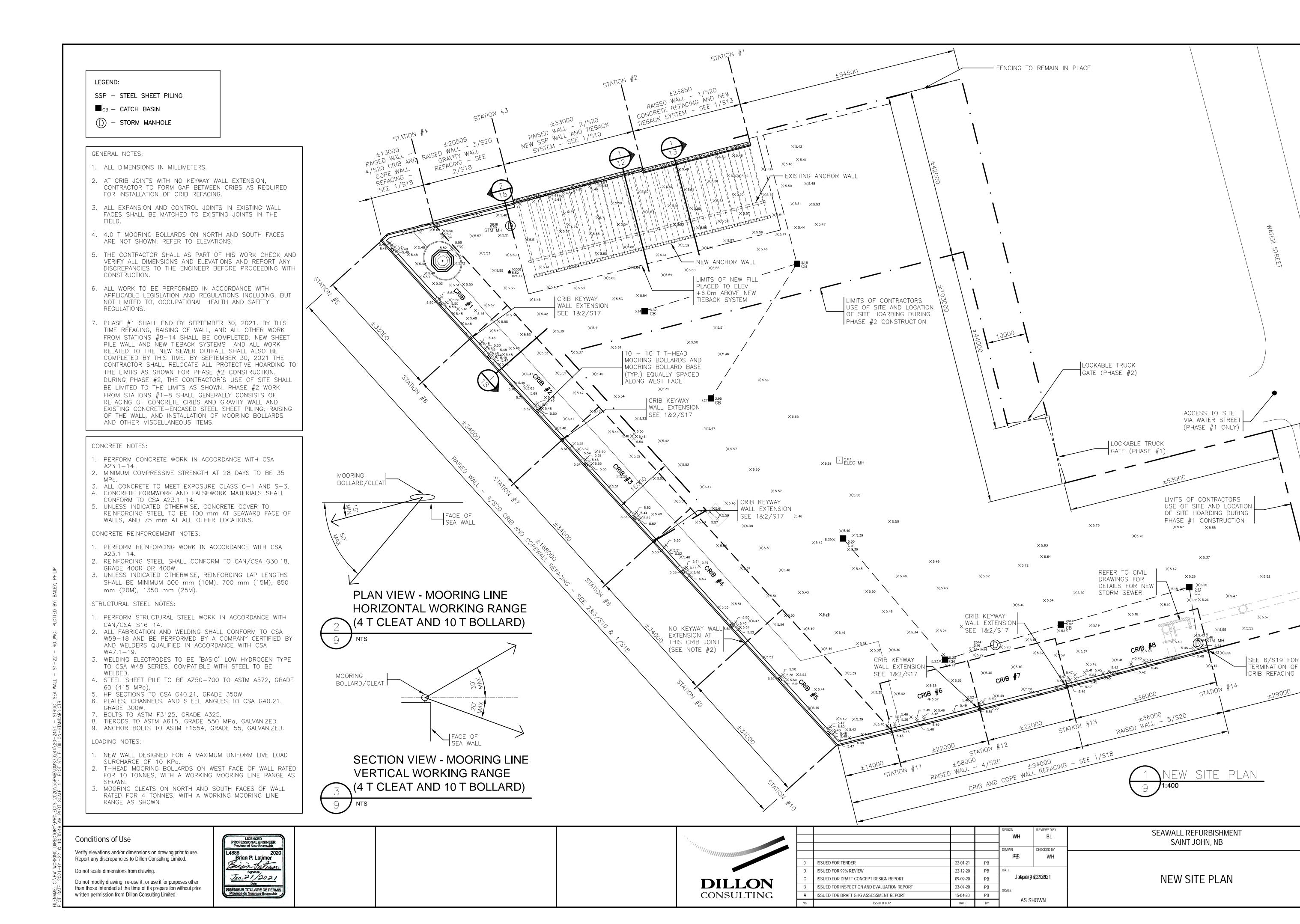


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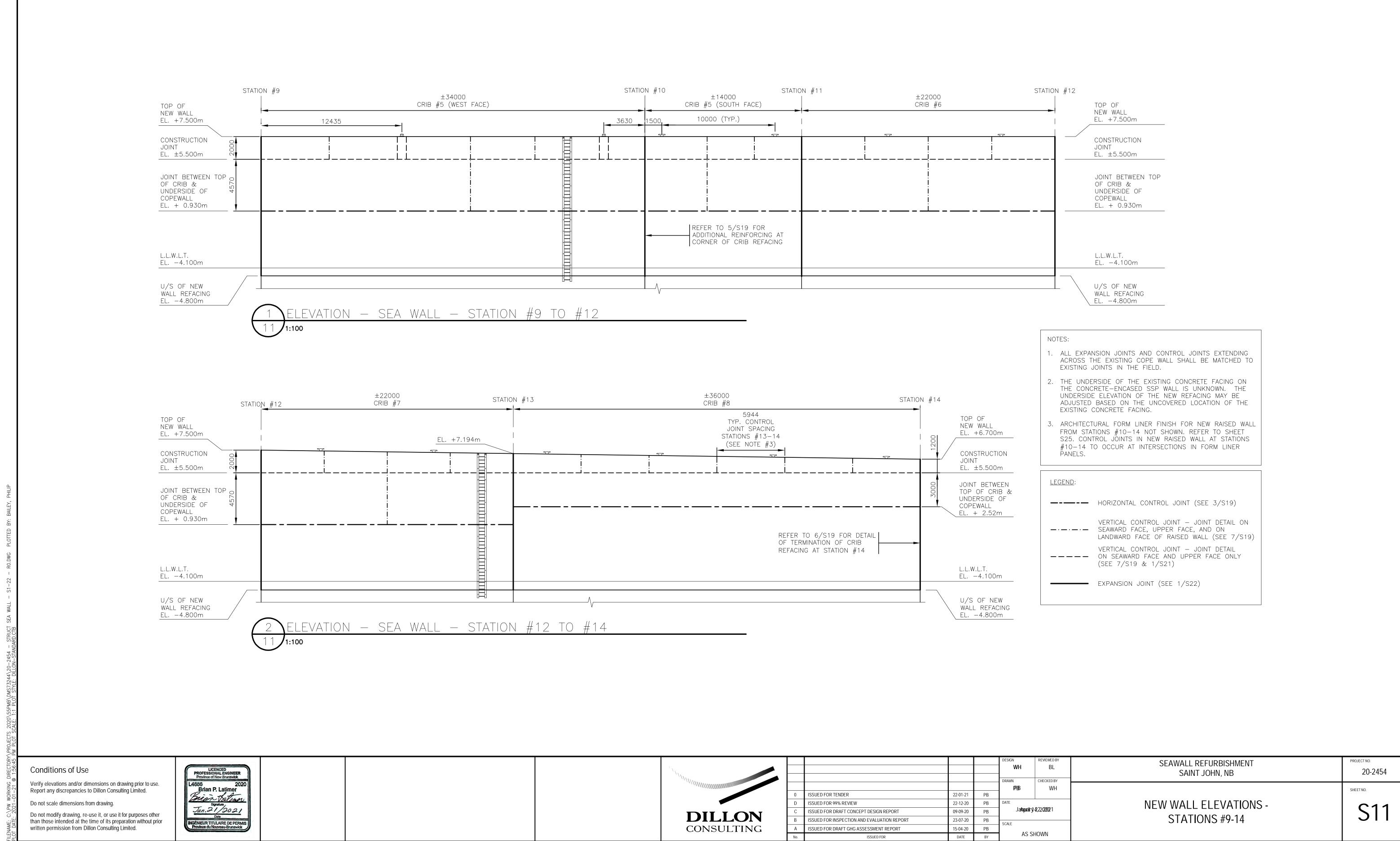
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AS SHOWN		CONCRETE REMOVALS	

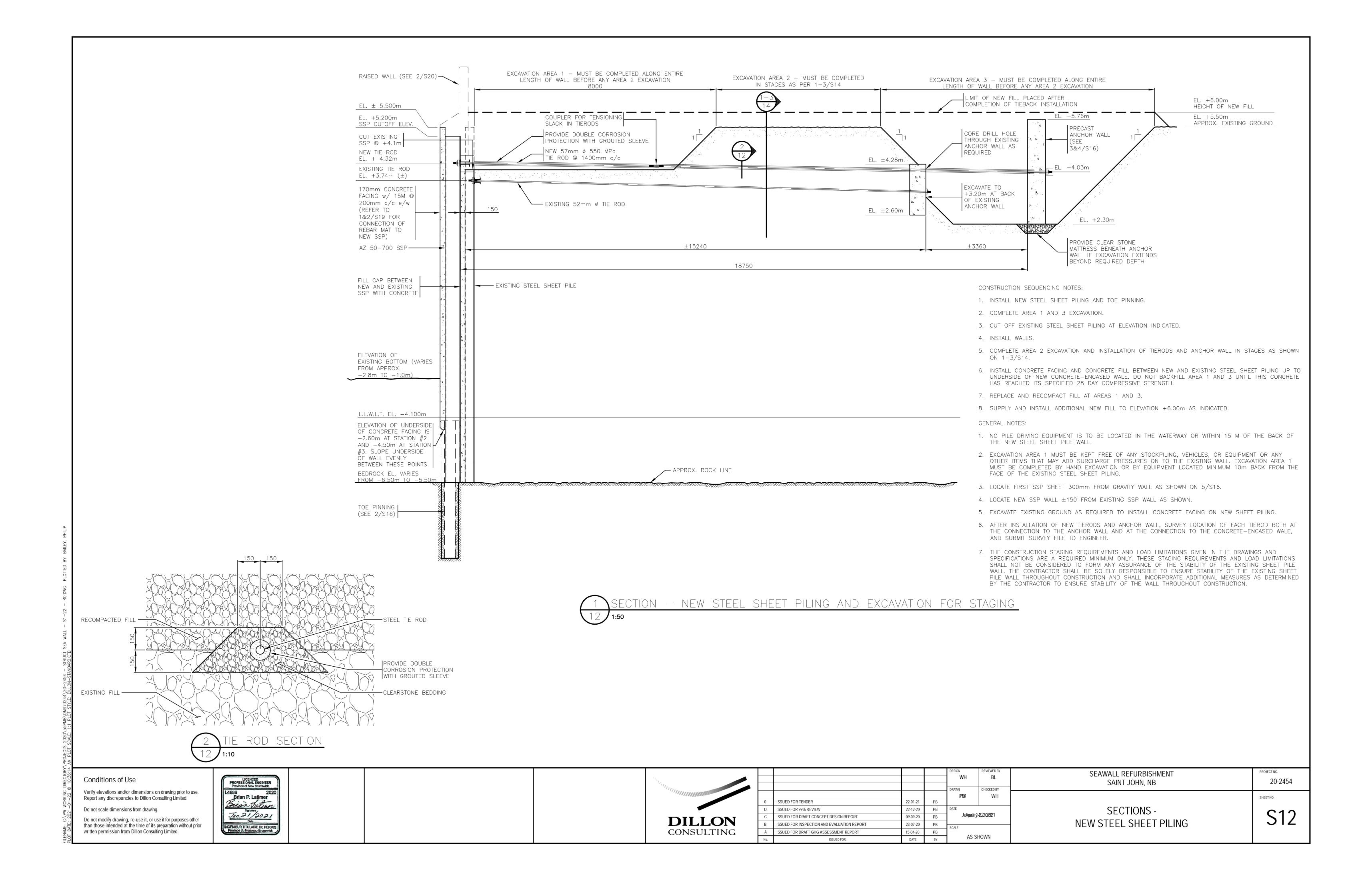
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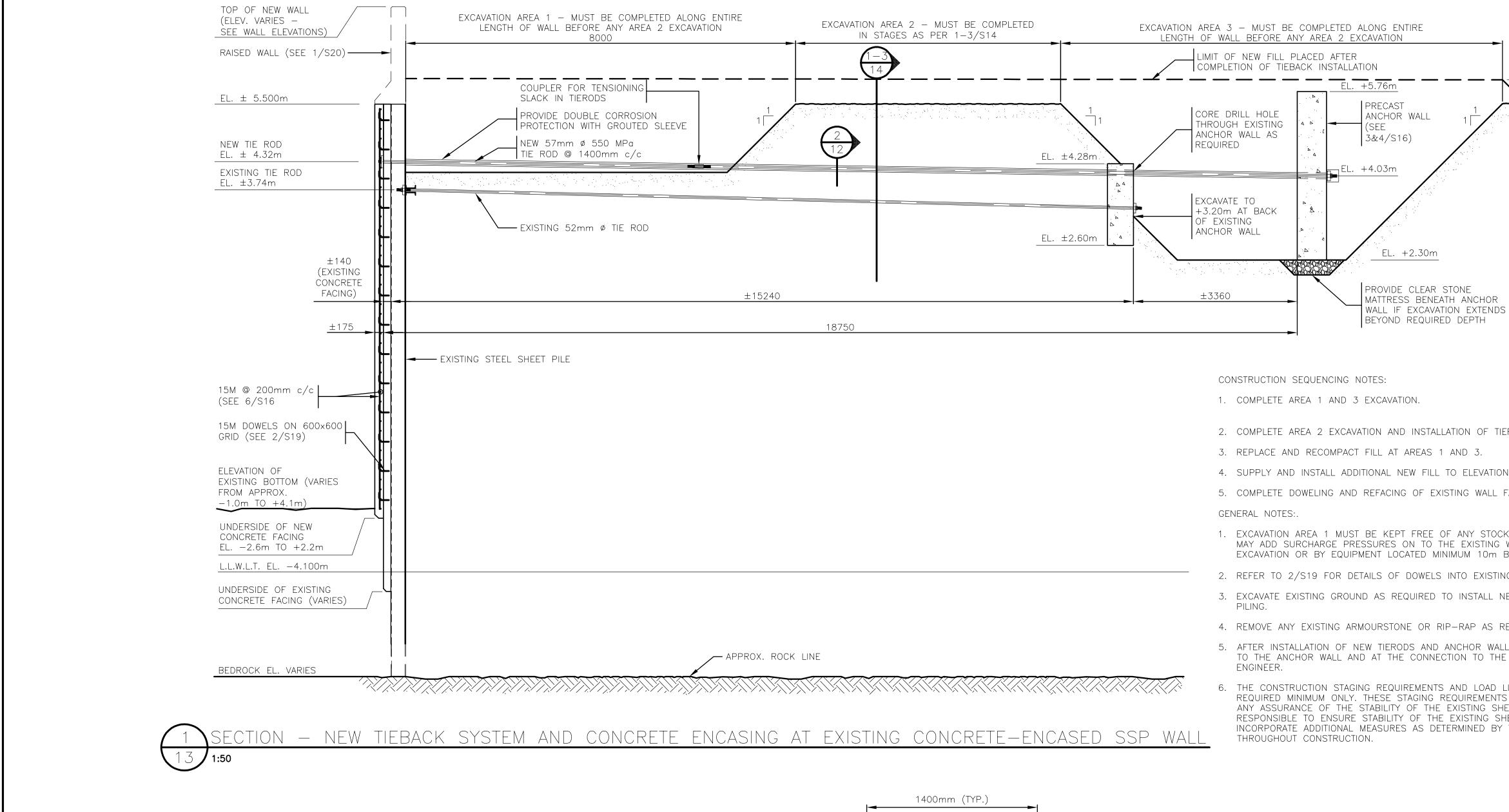


20-2454

S9







- 1. COMPLETE AREA 1 AND 3 EXCAVATION.
- 2. COMPLETE AREA 2 EXCAVATION AND INSTALLATION OF TIERODS AND ANCHOR WALL IN STAGES AS SHOWN ON 1-3/S14.

EL. +6.00m

EL. +5.50m

HEIGHT OF NEW FILL

APPROX. EXISTING GROUND

- 3. REPLACE AND RECOMPACT FILL AT AREAS 1 AND 3.
- 4. SUPPLY AND INSTALL ADDITIONAL NEW FILL TO ELEVATION +6.00m AS INDICATED.
- 5. COMPLETE DOWELING AND REFACING OF EXISTING WALL FACE.
- 1. EXCAVATION AREA 1 MUST BE KEPT FREE OF ANY STOCKPILING, VEHICLES, OR EQUIPMENT OR ANY OTHER ITEMS THAT MAY ADD SURCHARGE PRESSURES ON TO THE EXISTING WALL. EXCAVATION AREA 1 MUST BE COMPLETED BY HAND EXCAVATION OR BY EQUIPMENT LOCATED MINIMUM 10m BACK FROM THE FACE OF THE EXISTING STEEL SHEET PILING.
- 2. REFER TO 2/S19 FOR DETAILS OF DOWELS INTO EXISTING CONCRETE FACING.
- 3. EXCAVATE EXISTING GROUND AS REQUIRED TO INSTALL NEW CONCRETE FACING ON EXISTING CONCRETE-ENCASED SHEET
- 4. REMOVE ANY EXISTING ARMOURSTONE OR RIP-RAP AS REQUIRED TO COMPLETE INSTALLATION OF SHEET PILING.
- 5. AFTER INSTALLATION OF NEW TIERODS AND ANCHOR WALL, SURVEY LOCATION OF EACH TIEROD BOTH AT THE CONNECTION
- 6. THE CONSTRUCTION STAGING REQUIREMENTS AND LOAD LIMITATIONS GIVEN IN THE DRAWINGS AND SPECIFICATIONS ARE A REQUIRED MINIMUM ONLY. THESE STAGING REQUIREMENTS AND LOAD LIMITATIONS SHALL NOT BE CONSIDERED TO FORM ANY ASSURANCE OF THE STABILITY OF THE EXISTING SHEET PILE WALL. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ENSURE STABILITY OF THE EXISTING SHEET PILE WALL THROUGHOUT CONSTRUCTION AND SHALL INCORPORATE ADDITIONAL MEASURES AS DETERMINED BY THE CONTRACTOR TO ENSURE STABILITY OF THE WALL

PROVIDE DOUBLE NEW TIERODS CORROSION PROTECTION EXTENDING BACK TO WITH GROUTED SLEEVE NEW ANCHOR WALL EXISTING FACE OF 250x250x40 STEEL PLATE TO PROVIDE CONCRETE IN FRONT OF SSP BEARING ON EXISTING WALL FACE w/ SLOPED FACE OF NEW WASHER AS REQUIRED REINFORCED CONCRETE FACING NOTE: DOWELING AND REINFORCING IN NEW WALL REFACING NOT SHOWN FOR CLARITY. NEW TIEBACK CONNECTION AT EXISTING CONCRETE—ENCASED SSP WALL

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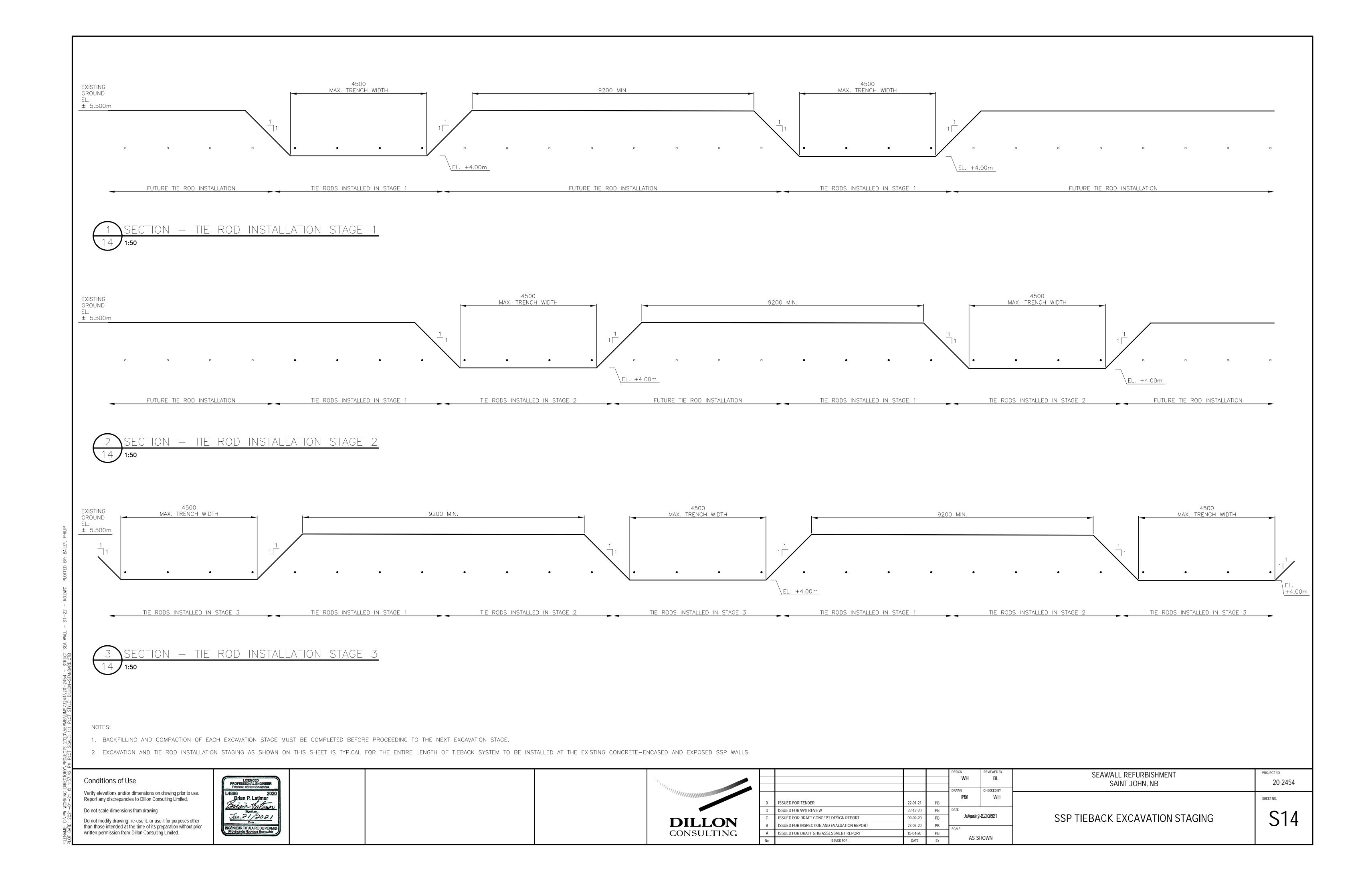
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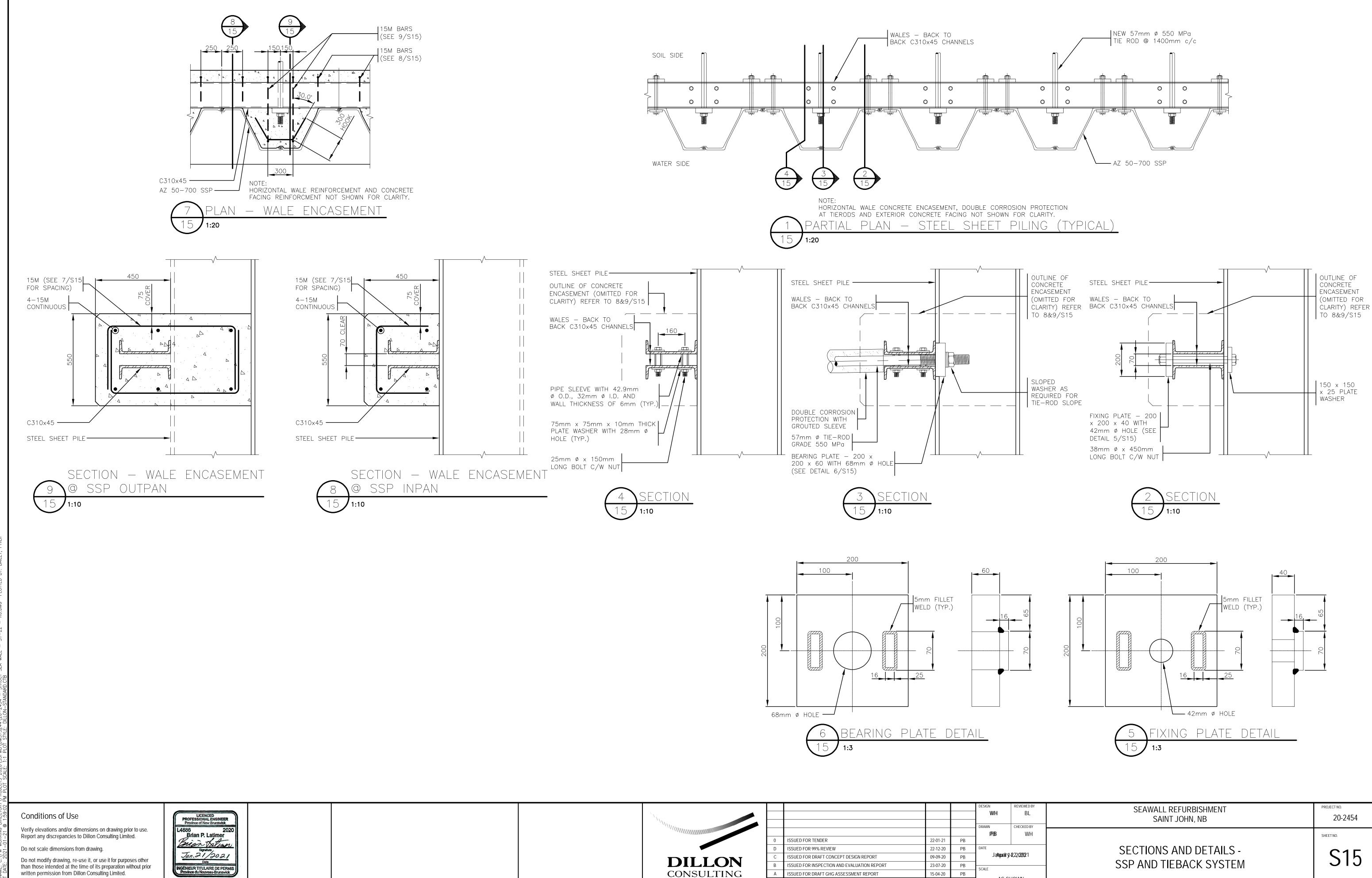
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	SECTION AND PLAN - REFACING AND
	TIE-BACK SYSTEM AT EXISTING
	CONCRETE-FACED SSP

SEAWALL REFURBISHMENT

SAINT JOHN, NB





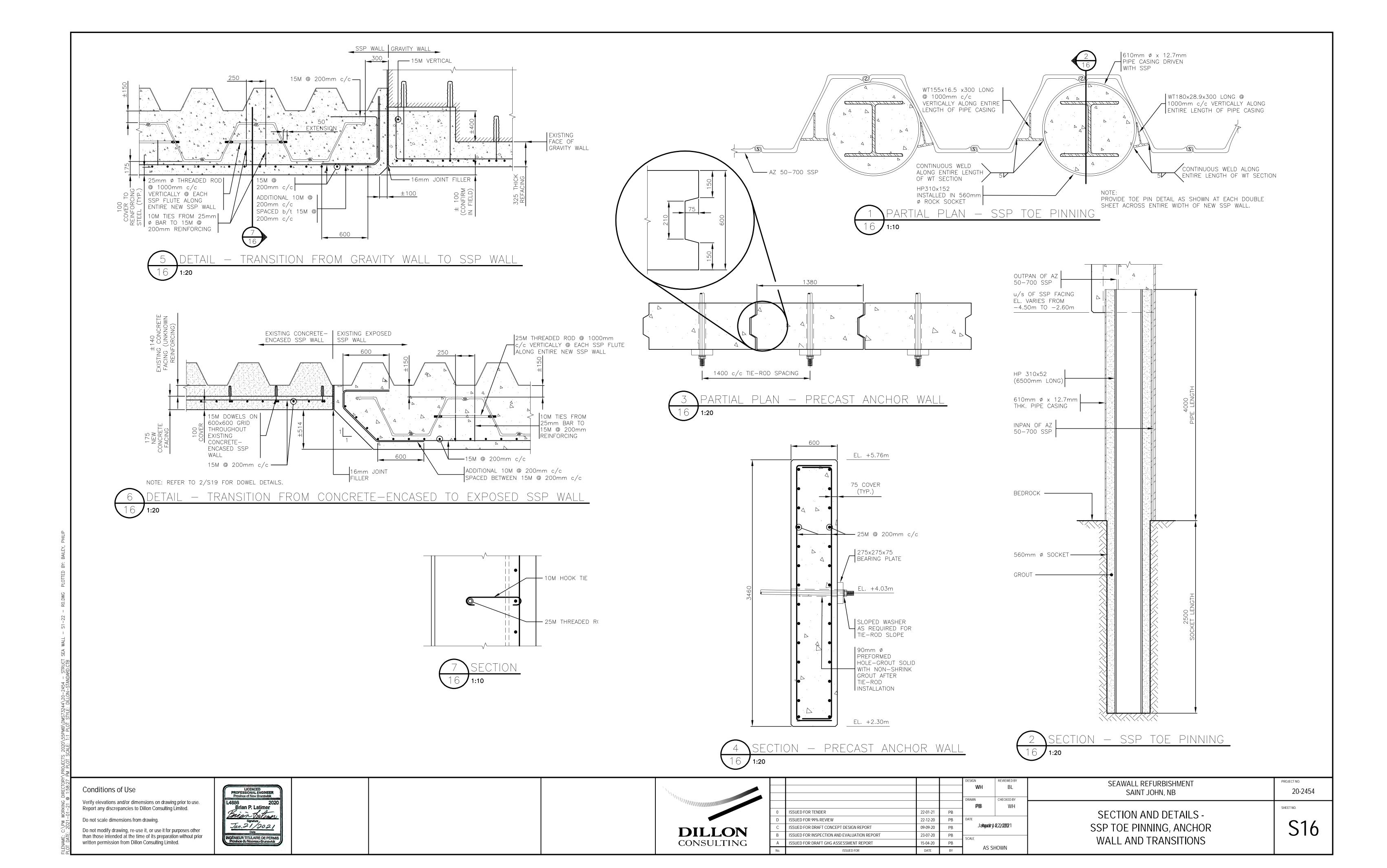
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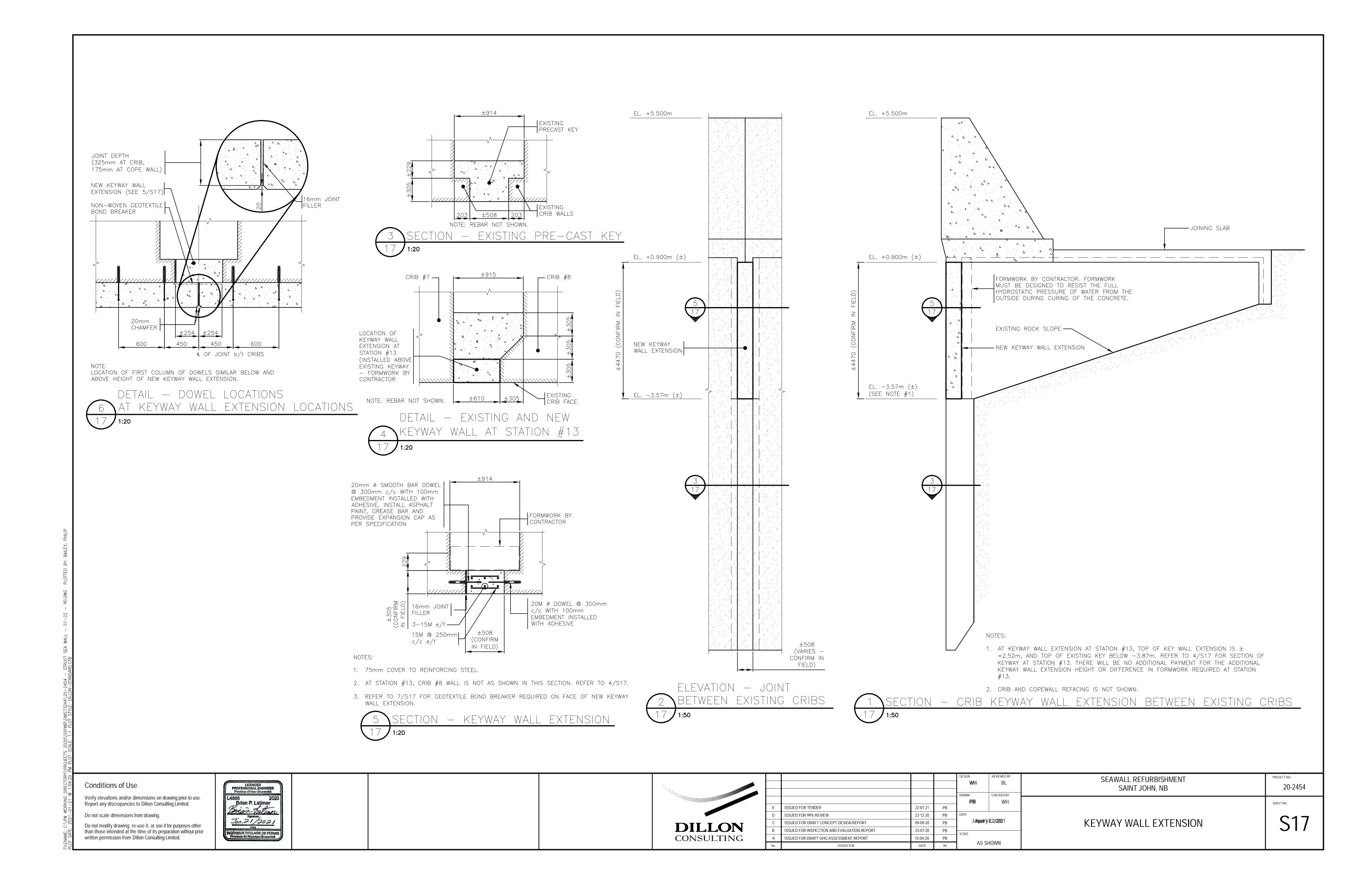
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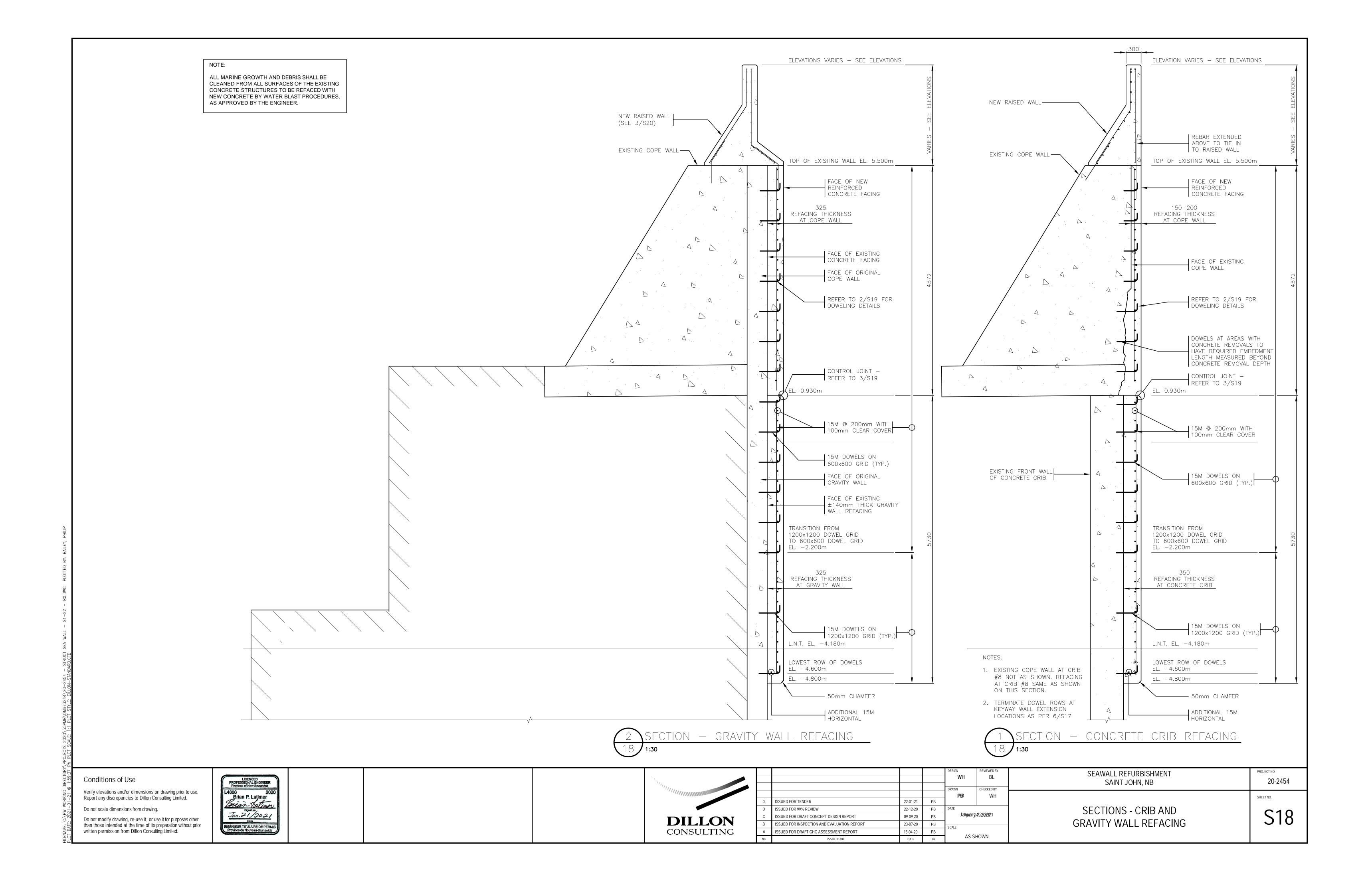
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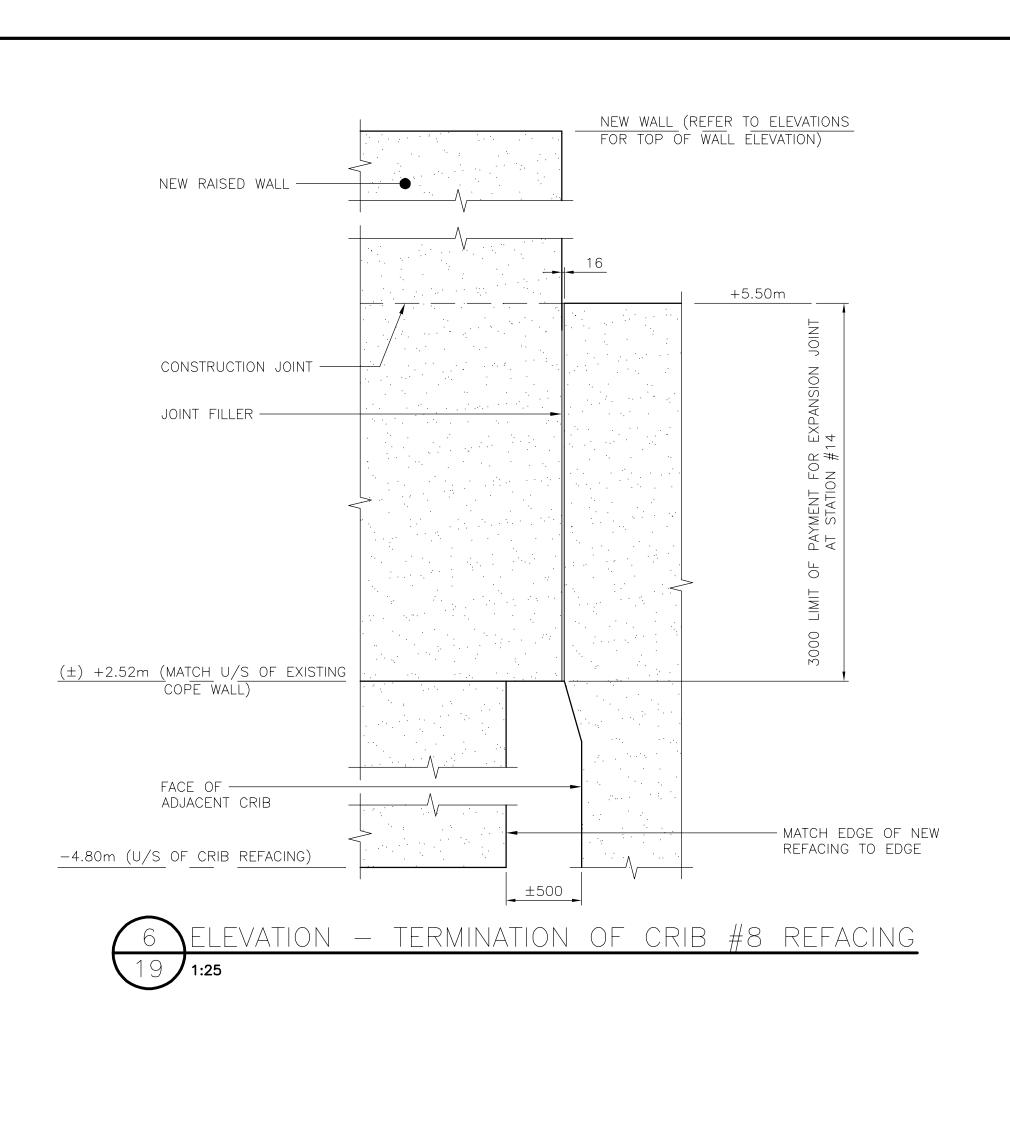
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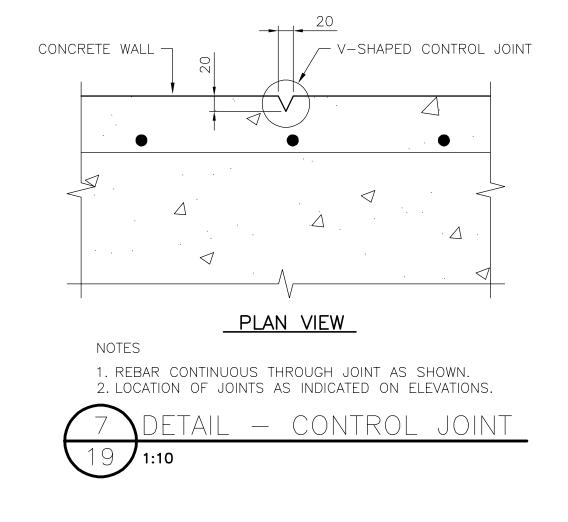
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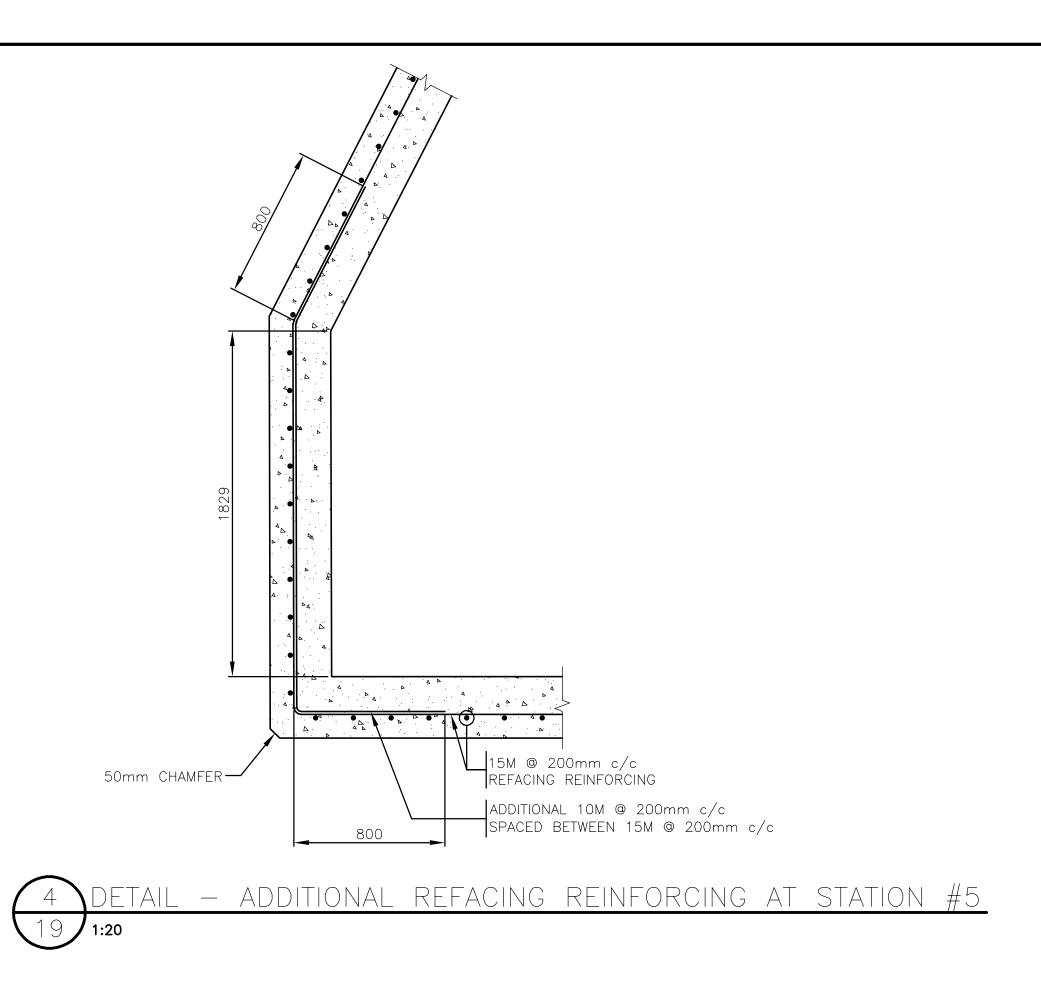


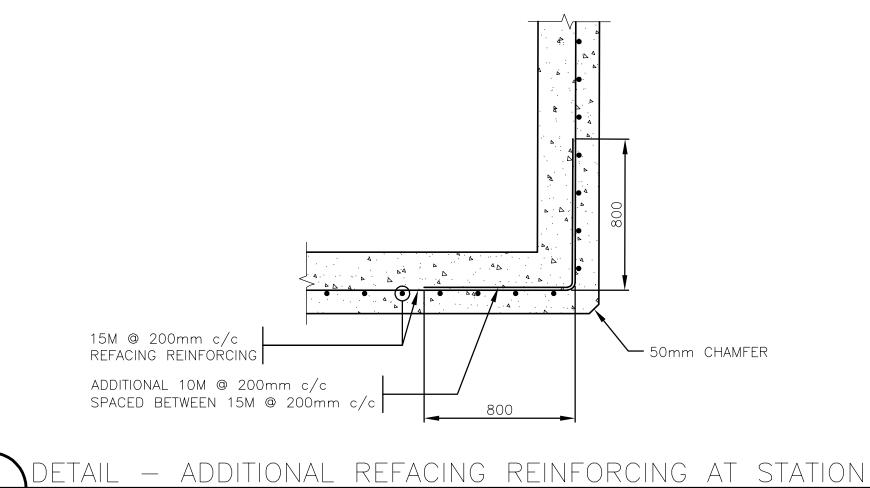




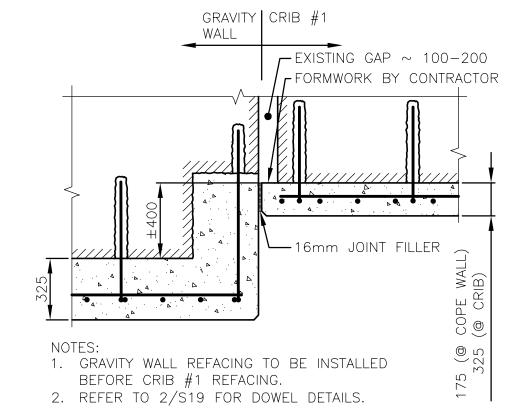




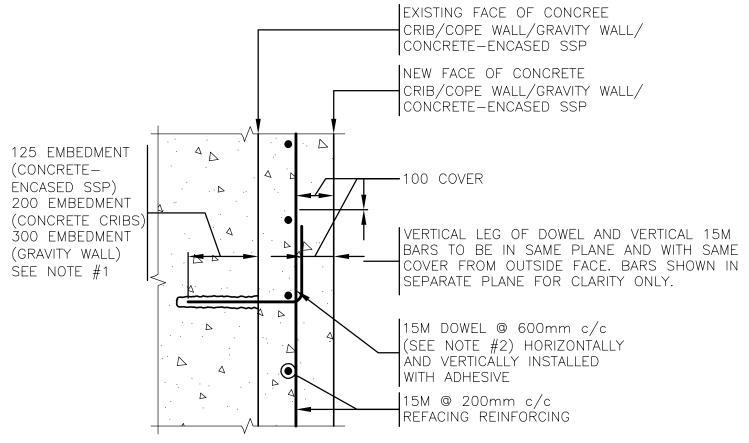




TAIL - ADDITIONAL REFACING REINFORCING AT STATION #10



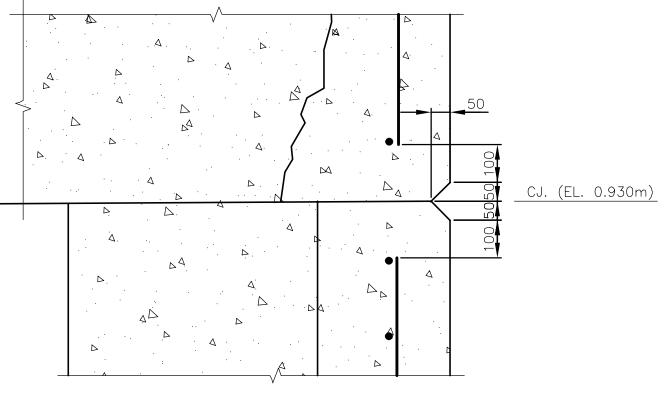
DETAIL - TRANSITION FROM GRAVITY \WALL TO CONCRETE CRIB



1. AT LOCATIONS WITH CONCRETE REMOVALS, EMBEDMENT DEPTH OF DOWEL TO EXTEND BEYOND REMOVAL DEPTH.

2. DOWEL SPACING OF 1200mm c/c IN LOW WATER ZONE AT CONCRETE CRIBS AND GRAVITY WALL AS INDICATED ON 1&2/S18





NOTE: TERMINATE REBAR 100mm EITHER SIDE OF JOINT AS SHOWN. . — REFACING HORIZONTAL CONTROL JOINT

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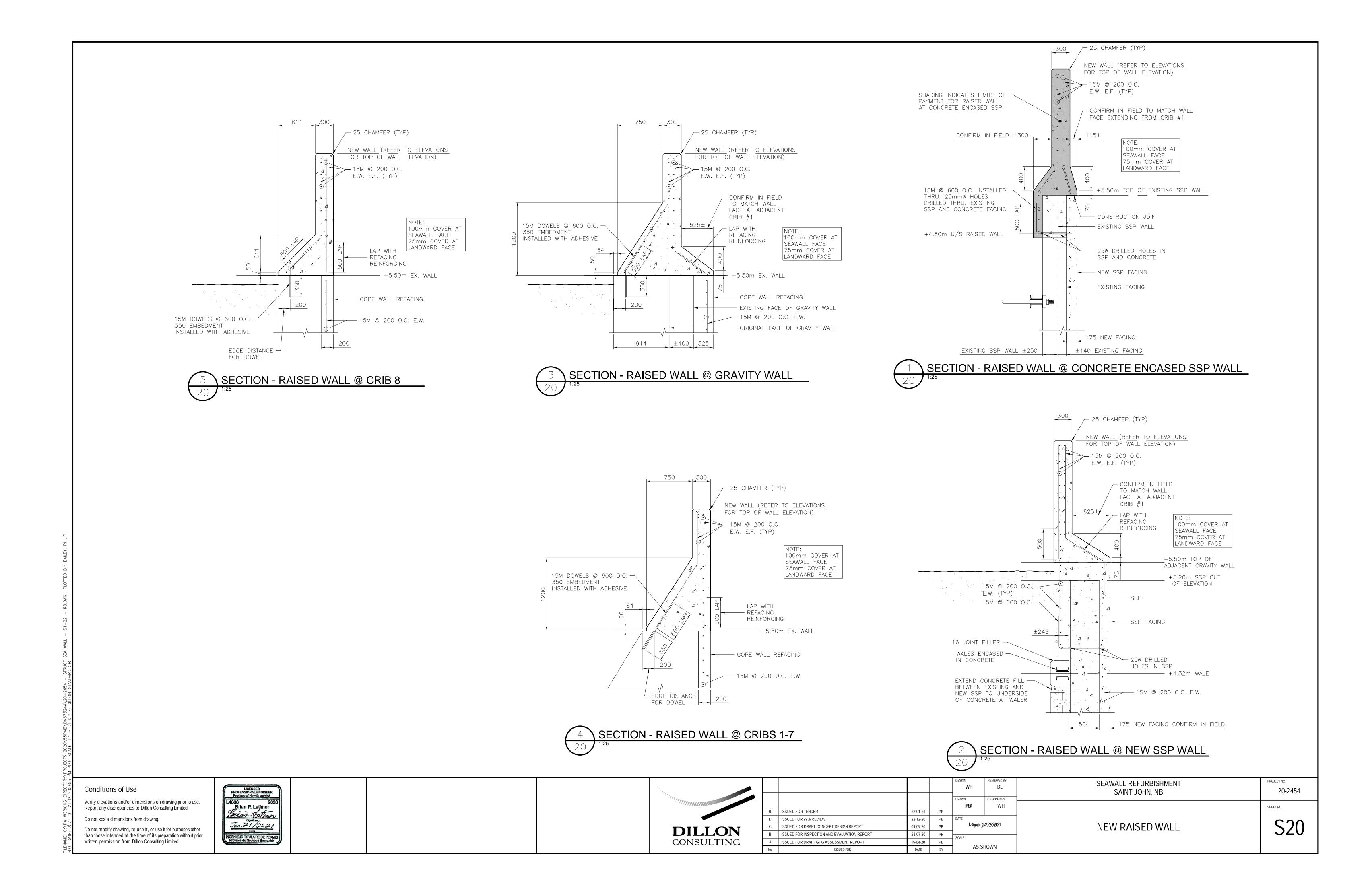
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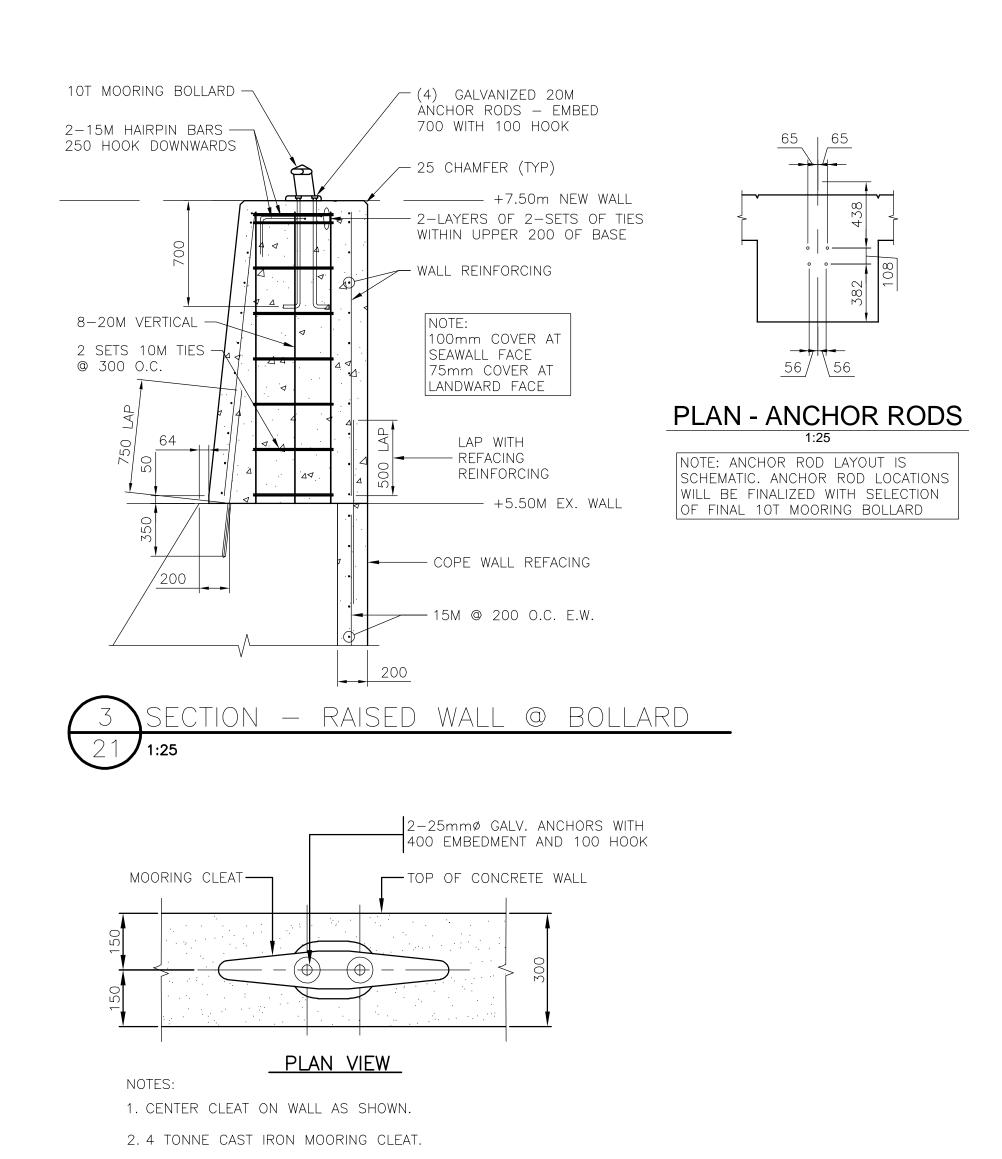
AILS - CRIB AND GRAVITY WALL REFACING

SEAWALL REFURBISHMENT

SAINT JOHN, NB

S19

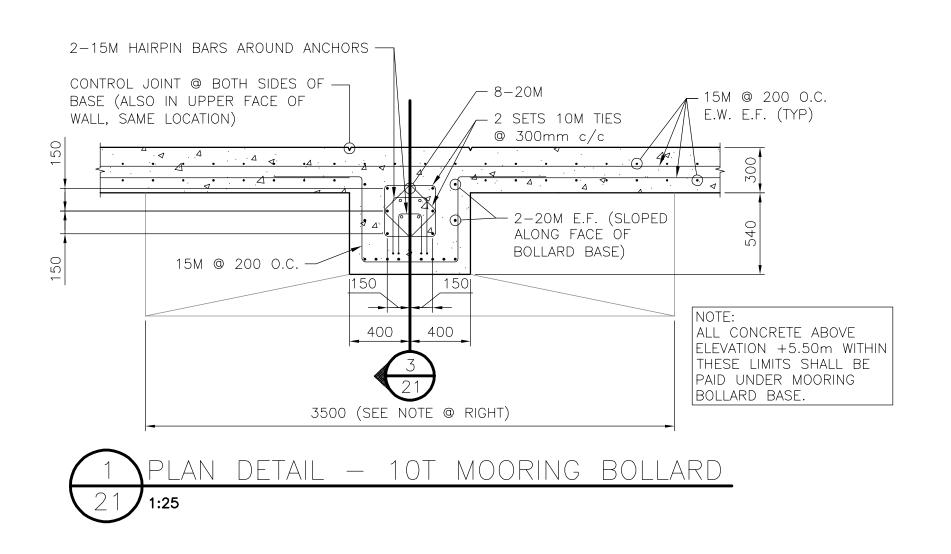


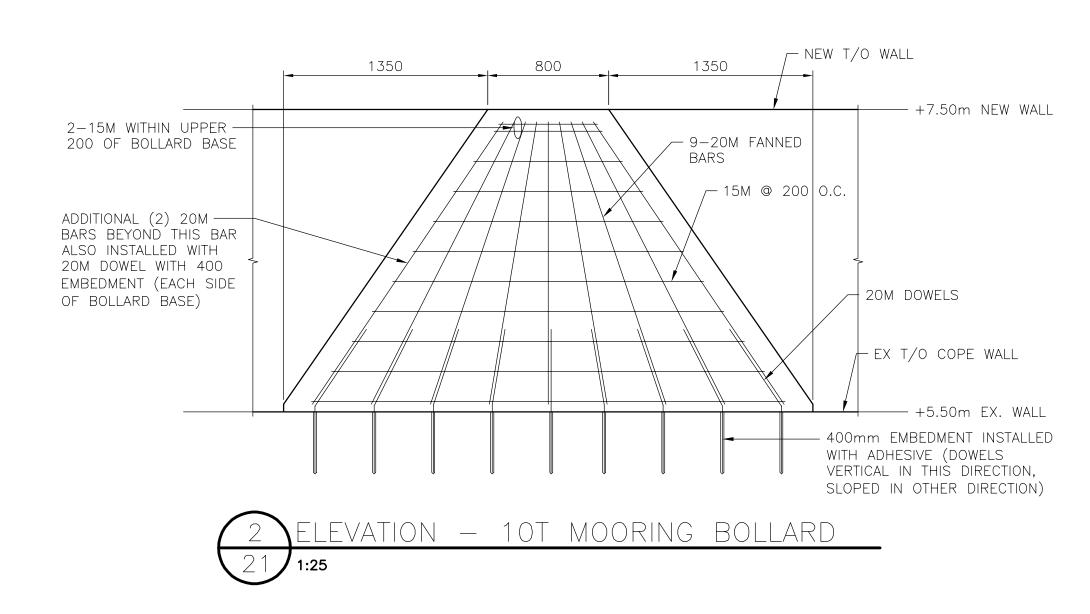


3. CLEAT AND BOLTS SHOWN. FINAL CLEAT AND BOLTS SHALL BE

ETAIL — 4 TONNE MOORING CLEAT

BASED ON APPROVED SHOP DRAWINGS.





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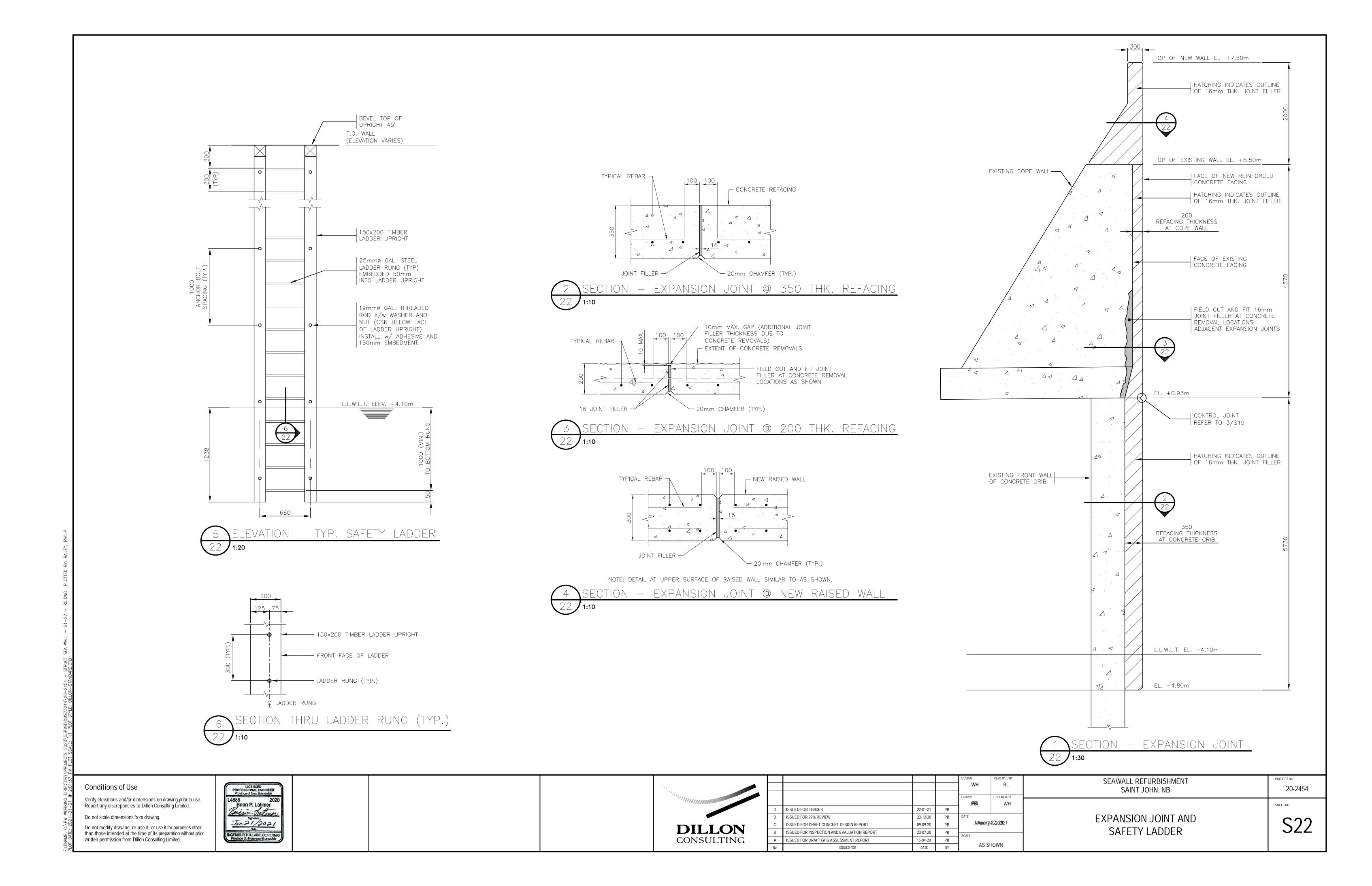
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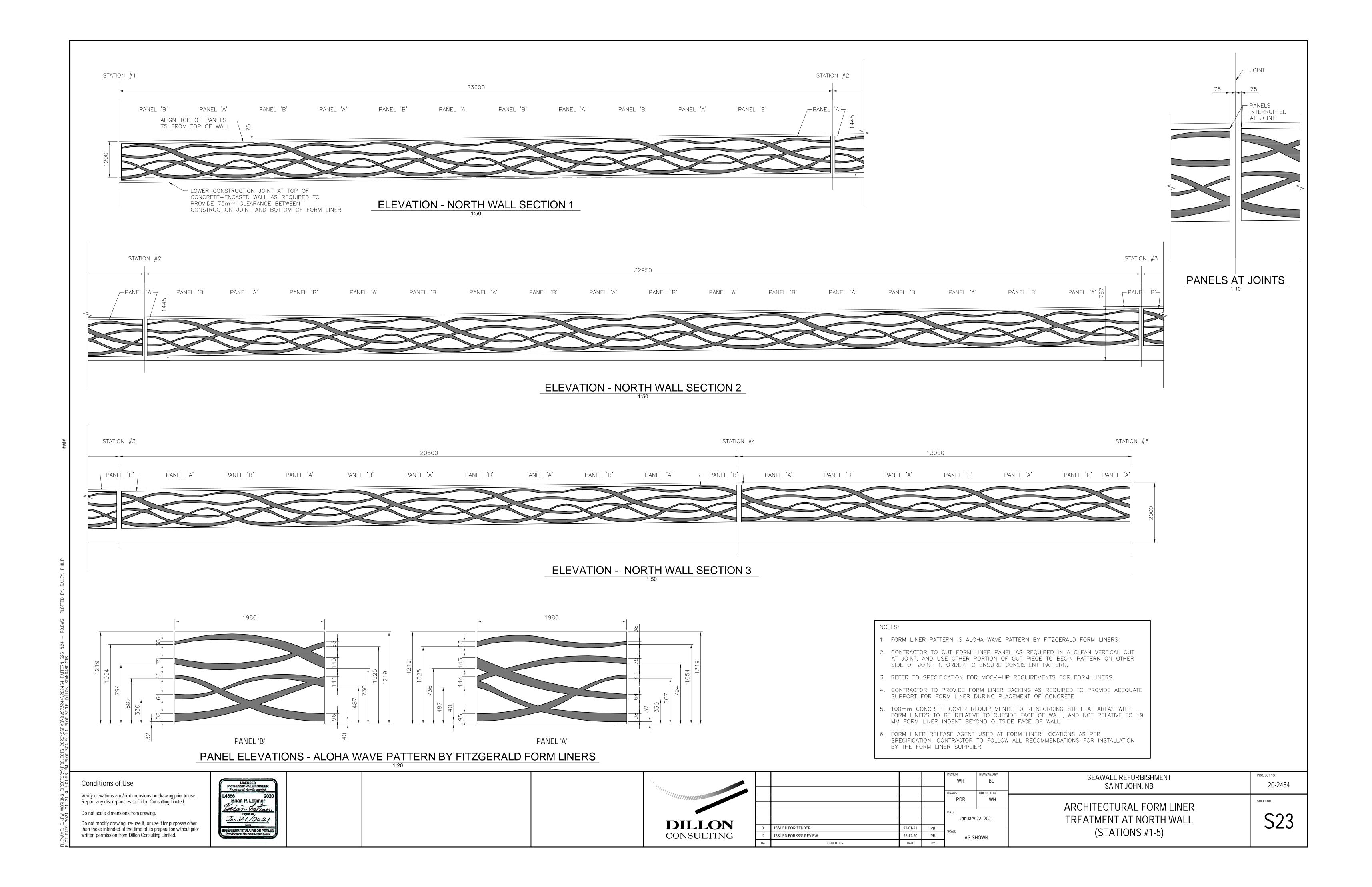
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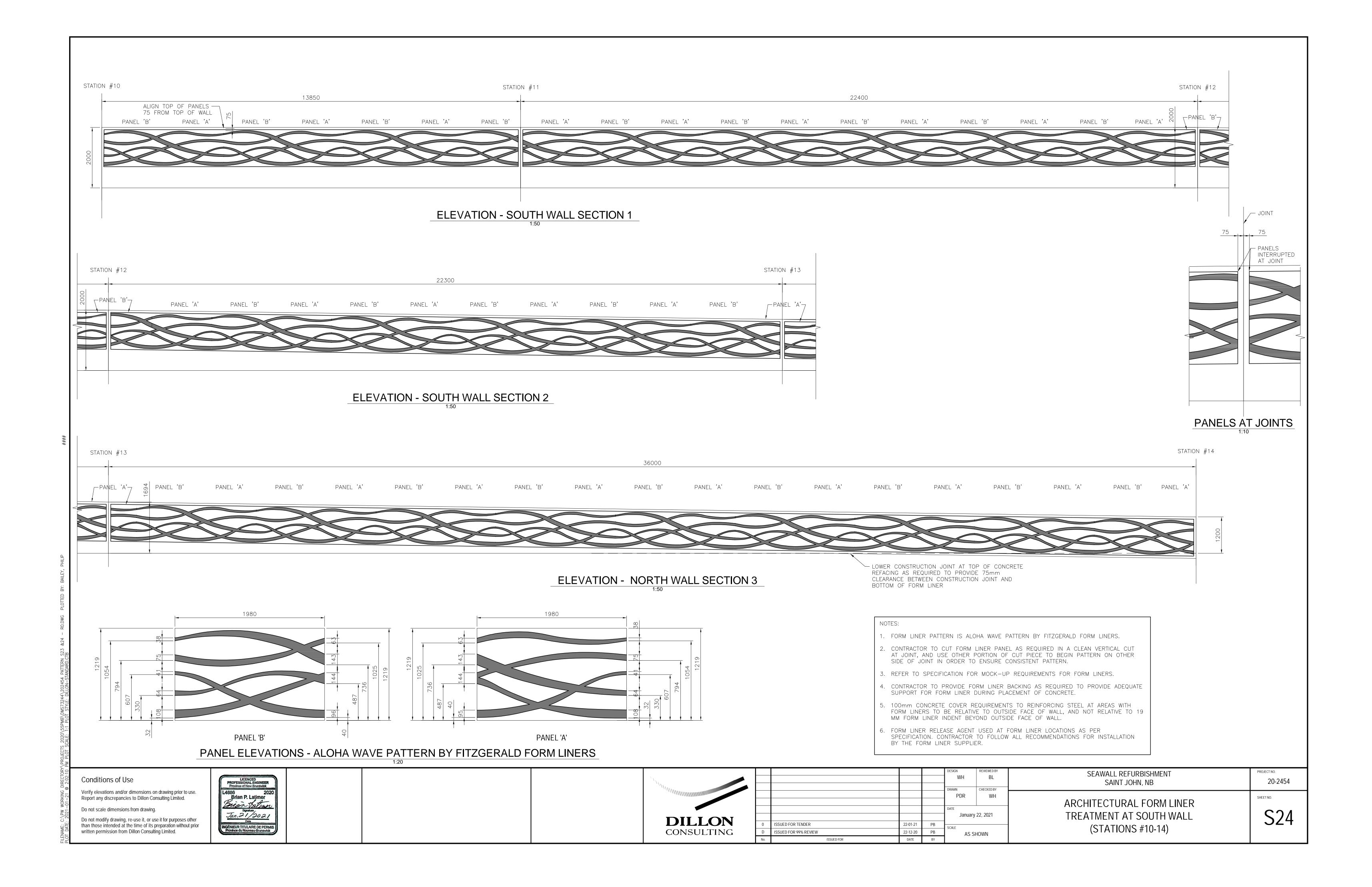


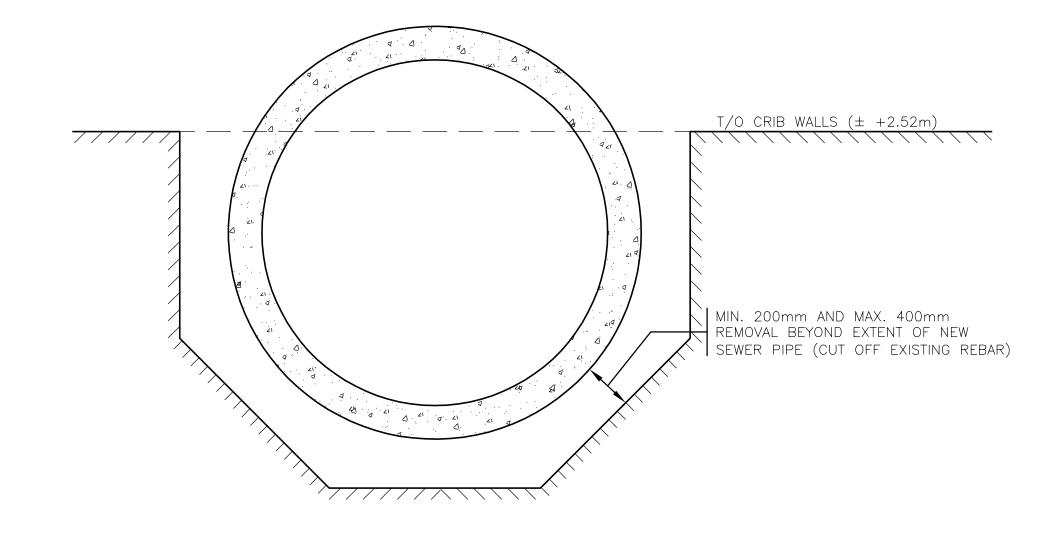
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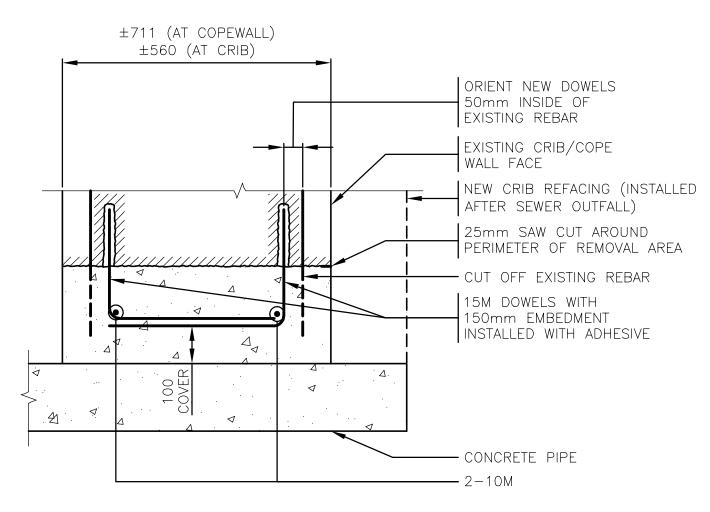




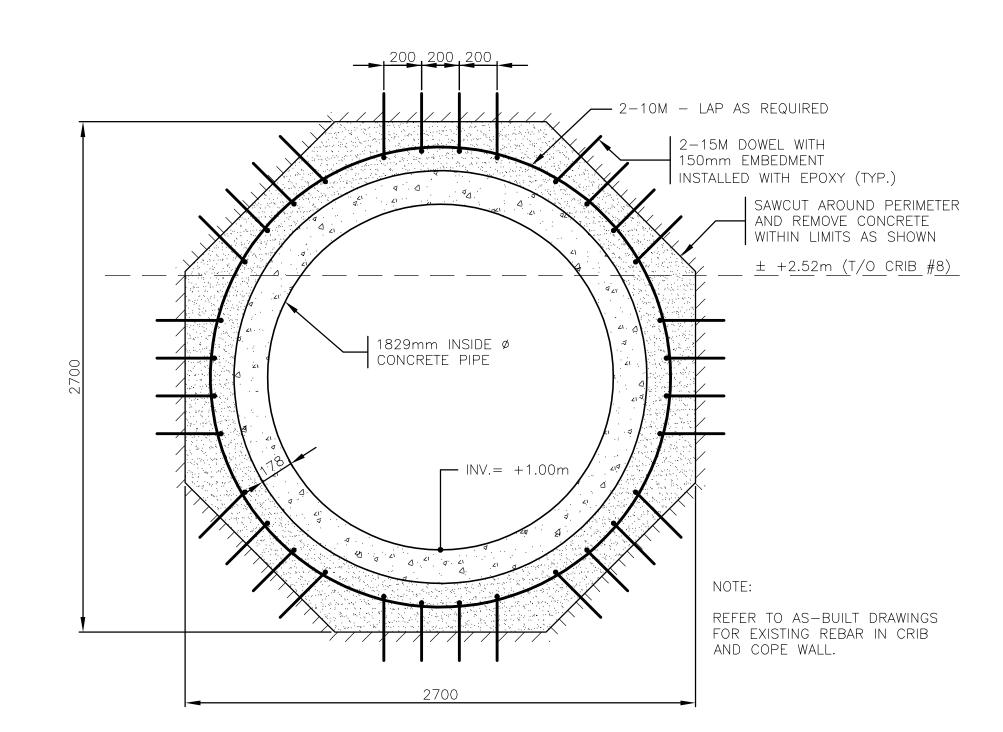




SECTION - TYPICAL CRIB WALL REMOVAL



2 SECTION — CONCRETE REPLACEMENT AT OUTFALL 25 1:10



ELEVATION — CONCRETE REMOVALS

& REPLACEMENT AT OUTFALL

25 1:20

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