Project No. 242835.00

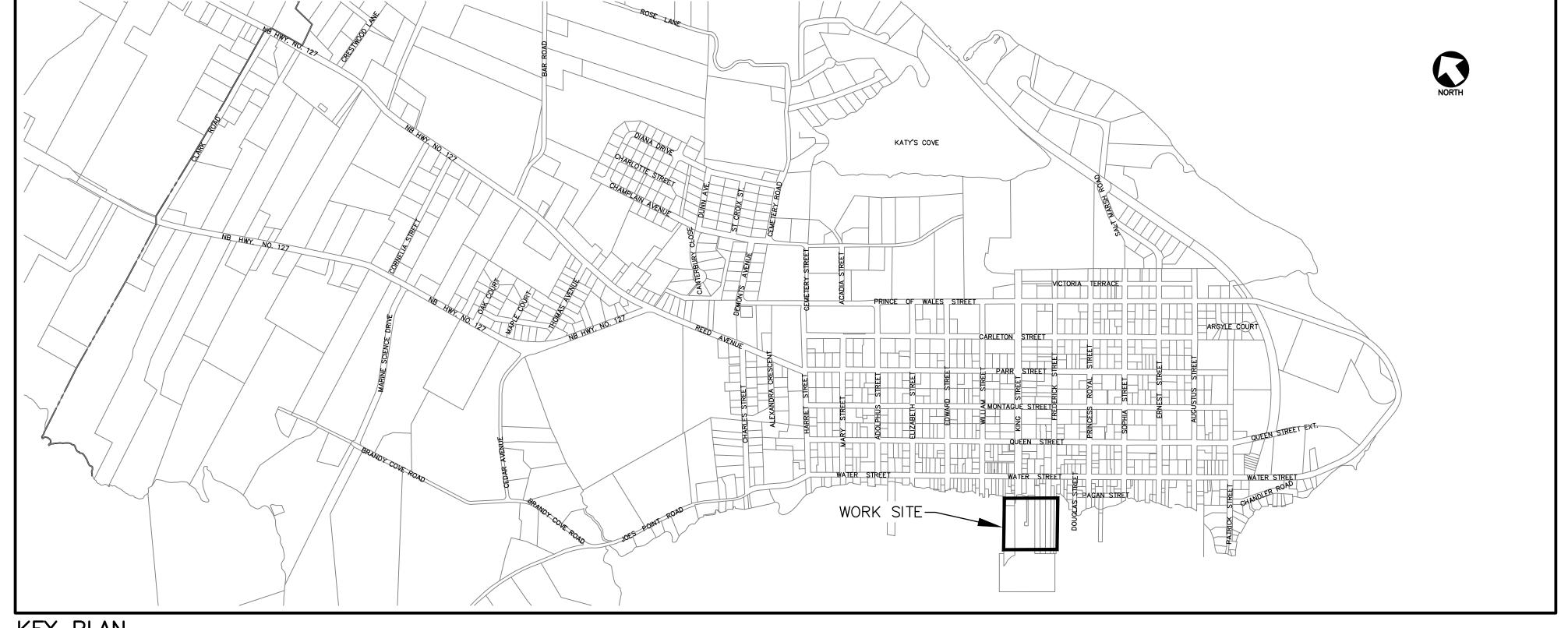
Sheet List Table

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Sheet Title
     COVER SHEET
STRUCTURAL
       Site Plan and Borehole Location Plan
       Approach Trestle — Existing Conditions and Removals
       Approach Trestle - Existing Conditions and Removals Sections
       Approach Trestle — General Arrangement, Elevation and Sections
       Approach Trestle — Pile Layout Plan, Sections and Details
       Approach Trestle — Concrete Precast Panel Plan and Details
       Approach Trestle — Pile Cap and Precast Panel Sections
       Approach Trestle - Concrete Deck Plan and Sections
       Approach Trestle — Abutment Plan, Sections and Details
       Approach Trestle - Miscellaneous Details
       Approach Trestle — Miscellaneous Details
       Intermediate Trestle – Existing Conditions and Removals Plan, EIEVATION
       INTERMEDIATE TRESTLE - BRACING REPAIRS PLAN, ELEVATION AND
       Intermediate Trestle – Pile Repair Details
       Pier Head - Existing Conditions Plan, Elevation and Sections
       Pier Head - Pile Wrap Plan and Schedules
       Stair Plan, Sections and Details
       Stair Details
       WATER, SANITARY, STORM SERVICES
       GRADING PLAN
       DETAILS
ELECTRICAL
E-01 ELECTRICAL DEMOLITION
E-02 ELECTRICAL NEW CONSTRUCTION
E-03 DETAILS
E-04 SINGLE LINE DIAGRAM AND SCHEDULES
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TOWN OF SAINT ANDREWS



TSA WHARF APPROACH REPLACEMENT

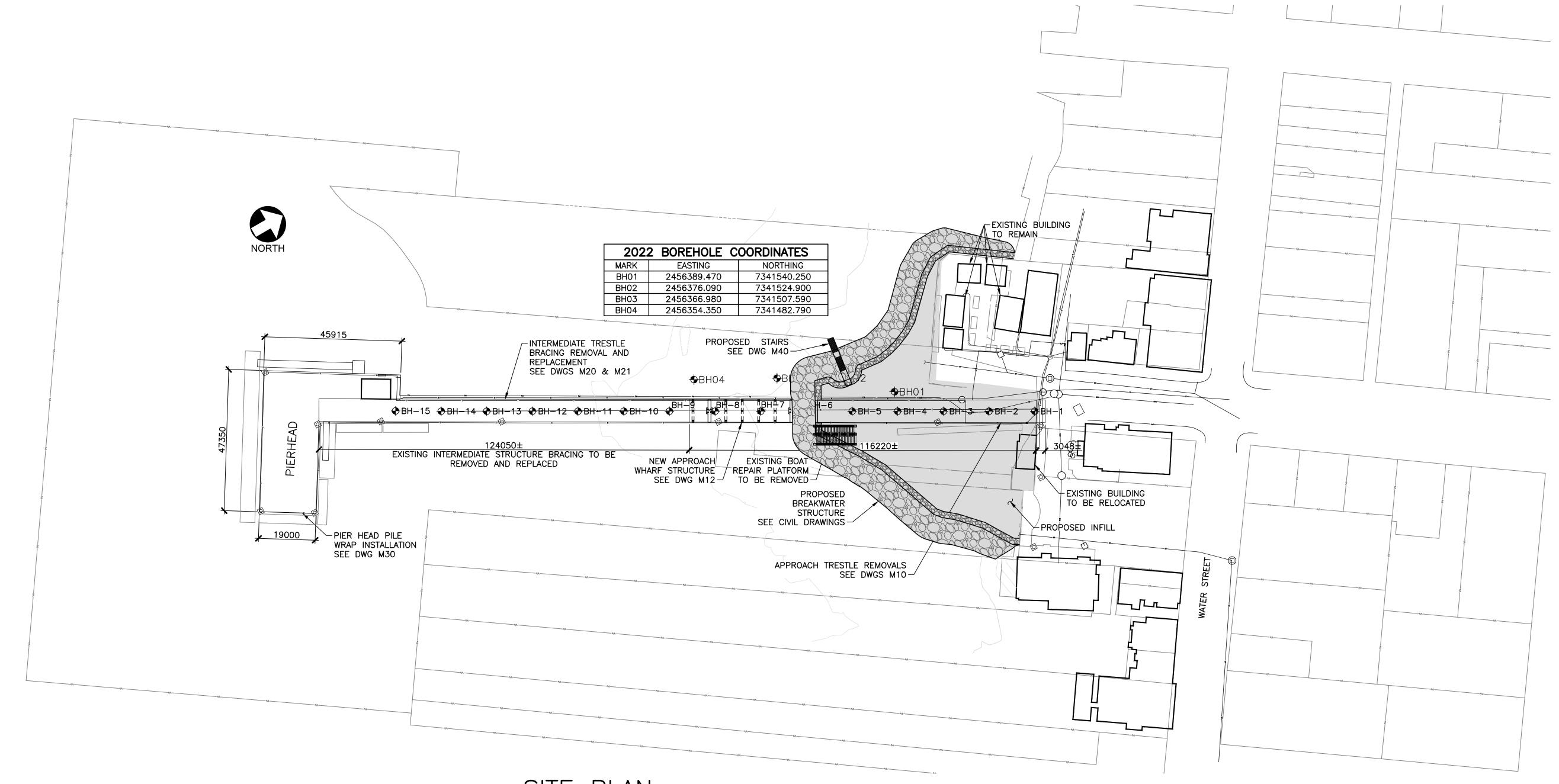






Client Contract No. TSA 2024-03





SITE PLAN WHARF RECONSTRUCTION AND INFILL AREA

GENERAL NOTES:

- 1. REFER TO PROJECT SPECIFICATION DOCUMENT FOR OTHER APPLICABLE CODES, STANDARDS, MATERIALS, AND EXECUTION REQUIREMENTS.
- 2. ALL WORK AND MATERIALS TO CONFORM TO THE REQUIREMENTS OF THE NATIONAL BUILDING CODE OF CANADA, LATEST EDITION.
- 3. DETAILS, DIMENSIONS, AND ELEVATIONS OF THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE BASED ON INFORMATION OBTAINED FROM HISTORICAL DATA PROVIDED BY THE CLIENT AND SITE SURVEYS. THE CONTRACTOR MUST FIELD VERIFY ALL SUCH DETAILS, DIMENSIONS, AND ELEVATIONS PRIOR TO FABRICATION OR ERECTION OF WORK AND REPORT DISCREPANCIES TO THE ENGINEER.
- 4. NO ALTERATIONS TO STRUCTURAL DETAILS TO BE MADE WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER. CONSTRUCTION ERRORS ARE TO BE DOCUMENTED AND REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH SUBSEQUENT WORK.
- 5. PERIODIC AND DISCRETIONARY SITE OBSERVATIONS ARE MADE AT THE JOB SITE BY THE ENGINEER AND ARE NECESSARILY LIMITED IN SCOPE TO OBSERVATION OF WORK IN PROGRESS AT THE TIME OF THE SITE OBSERVATION. THESE SITE OBSERVATIONS DO NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO PROVIDE CONTINUOUS ON—SITE SUPERVISION OF ALL STRUCTURAL WORK TO ENSURE THAT BOTH THE INTENT AND DETAILS OF THE DRAWINGS AND SPECIFICATIONS ARE BEING FOLLOWED.
- 6. THE HORIZONTAL DATUM UTILIZED IN NAD83 (CSRS) NEW BRUNSWICK DOUBLE STEROGRAPHIC PROJECTION.
- 7. ALL ELEVATIONS ARE IN GEODETIC METRES AND REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928 (CGVD28).
- 8. CONTRACTOR TO BE RESPONSIBLE FOR STABILITY OF ALL STRUCTURE DURING REPAIRS AND CONSTRUCTION OF NEW STRUCTURE.

REINFORCED CONCRETE NOTES:

- 1. ALL CONCRETE, CONCRETE MATERIALS, FORMS, WORKING PROCEDURES AND THE LIKE TO CONFORM TO CSA A23.1, LATEST EDITION, UNLESS NOTED OTHERWISE.
- 2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AND CLASS OF EXPOSURE SHALL BE AS FOLLOWS:

56 DAYS/C-1 WITH S-3 EXPOSURE REQUIREMENTS.

- 3. CONCRETE PROTECTIVE COVER TO REINFORCING STEEL TO BE 75 mm UNLESS NOTED OTHERWISE ON DRAWINGS.
- 4. ALL REINFORCING BARS MUST BE ACCURATELY SUPPPORTED ON PLASTIC COATED STEEL HIGH CHAIRS TO MAINTAIN EXACT CONCRETE COVER.
- 5. CONSTRUCTION JOINTS TO BE LOCATED AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE. LOCATIONS TO BE AS SHOWN ON THE DRAWINGS OR CONTRACTOR IS TO SUBMIT PROPOSED CONSTRUCTION JOINTS FOR THE ENGINEERS APPROVAL. CONSTRUCTION JOINTS TO BE

KEYED AND REINFORCEMENT TO NOT BE INTERRUPTING.

- 6. ALL REINFORCING STEEL TO HAVE A MINIMUM YIELD POINT STRENGTH OF 400MPa (WELDABLE) AND TO CONFORM TO CSA G30.18.
- 7. REINFORCING STEEL TO BE PROVIDED WITH A 'CLASS B' TENSION LAP TO CSA A23.3, LATEST EDITION AT ALL SPLICE LOCATIONS, UNLESS NOTED OTHERWISE.
- 8. REINFORCING STEEL IS TO BE CONTINUOUS AT ALL CORNERS, UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL NOTES:

- 1. STRUCTURAL STEEL SHALL CONFORM TO FOLLOWING CSA STANDARDS AND ASTM STANDARDS:
- 2. ALL WELDING SHALL BE IN ACCORDANCE WITH CSA STANDARD W59, LATEST EDITION.
- 3. FABRICATE, DELIVER TO SITE AND ERECT STEELWORK IN ACCORDANCE WITH CAN/CSA-S16, LATEST EDITION.

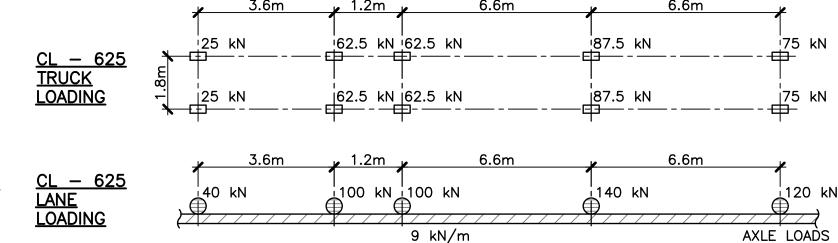
TIMBER NOTES:

1. TIMBER MATERIALS:

- a. TIMBER BRACING: GRADED AND STAMPED TO NATIONAL LUMBER
 GRADING AUTHORITY (NLGA) NO.1 STRUCTURAL. EASTERN HEMLOCK,
 WESTERN HELMLOCK, OR DOUGLAS FIR SPECIES ONLY WILL BE USED.
 b. ROUND WOOD PILES: DOUGLAS FIR, OR SOUTHERN YELLOW PINE.
- 2. TIMBER TO BE TREATED TO CAN/CSA-080 SERIES-15 FOR MARINE CONSTRUCTION COASTAL WATERS, UNLESS NOTED OTHERWISE.
- 3. GALVANIZE ALL HARDWARE TO ASTM A123, MINIMUM ZINC COATING OF 705g/m2, UNLESS NOTED OTHERWISE.
- 4. GALVANIZED ANCHORS SHALL NOT BE IN DIRECT CONTACT WITH REBAR.

DESIGN LOADING:

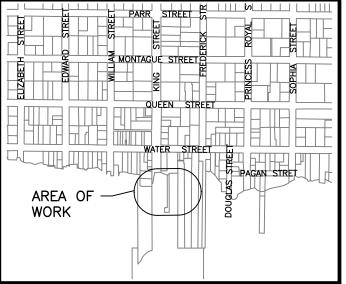
- 1. LOADING AND GENERAL DESIGN TO UFC 4-152- 01 (2017) (UNIFIED FACILITIES CRITERIA DESIGN: PIERS AND WHARVES) AND CSA S6-19, NBCC 2020.



- 3. WAVE FORCES DECK UPLIFT 10 kPa.
- 4. SEISMIC HAZARD ACCORDING TO NBCC 2020 FOR 2% PROBABILITY OF EXCEEDANCE IN 50 YEARS. SITE DESIGNATION FALLS IN SITE CLASS C.

Sa(0.2) Sa(0.5) Sa(1.0) Sa(2.0) 1.13 0.634 0.306 0.124

- 5. NEW STEEL PIPE SUPPORTED CONCRETE DECK STRUCTURE FALLS IN SEISMIC CATEGORY 3 AND OTHER BRIDGES ACCORDING TO CSA S6-19. SEISMIC DESIGN PERFORMED ACCORDING TO CSA S6-19 AND ASCE 61-14 FOR NEW STRUCTURE.
- 6. INTERMEDIATE TRESTLE UNIFORM LIVE LOAD IS TO BE REDUCED FROM THE EXISTING 15kPa TO 10kPa.
- 7. INTERMEDIATE TRESTLE TRUCK LOADING: MS 200 TRUCK LOADING.



KEY PLAN

EGEND:



DENOTES 2022 BOREHOLE

- SEE DRAWINGS M02
FOR BOREHOLE LOGS.

DENOTES 1995 BOREHOLE
 SEE DRAWINGS M02
 FOR BOREHOLE LOGS.

Revision or Issue

TOWN OF SAINT ANDREWS

TSA WHARF APPROACH REPLACEMENT

STRUCTURAL

SITE PLAN AND BOREHOLE LOCATION PLAN



CBCL No
242835.00

Contract No
TSA 2024-03

Date
APR 2024

AS NOTE

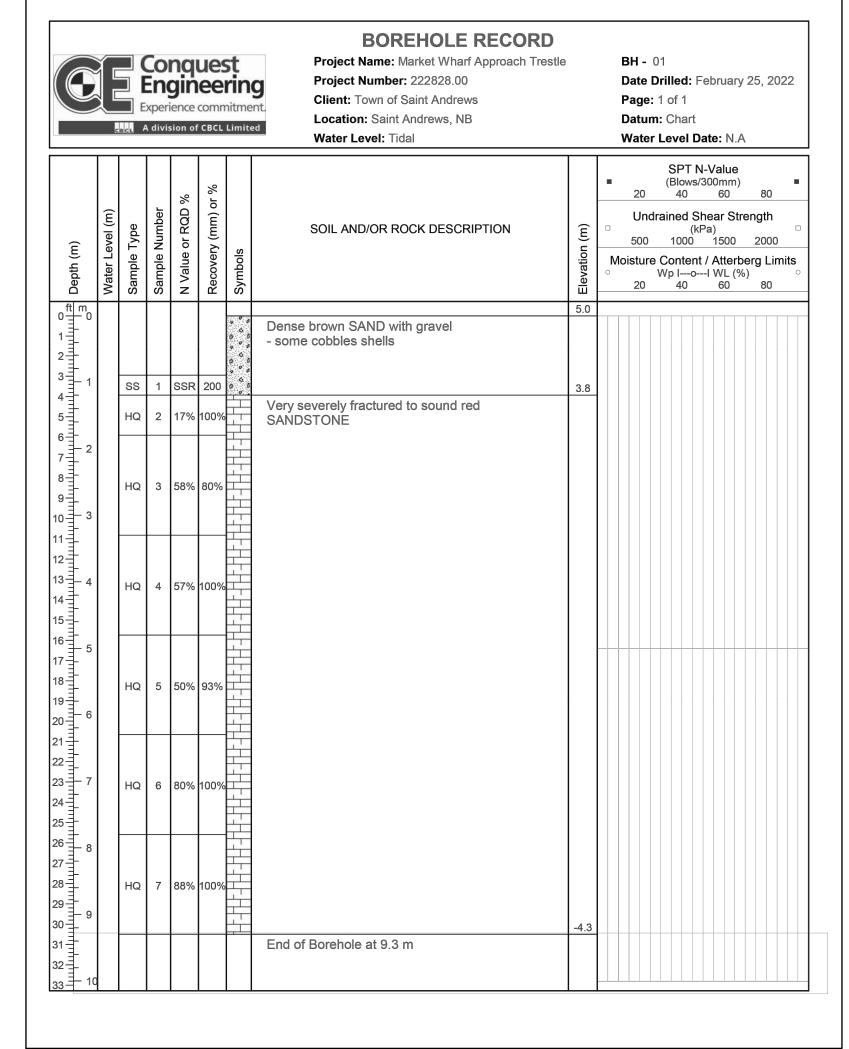
PROFESSIONAL ENGINEER
Province of New Brunswick

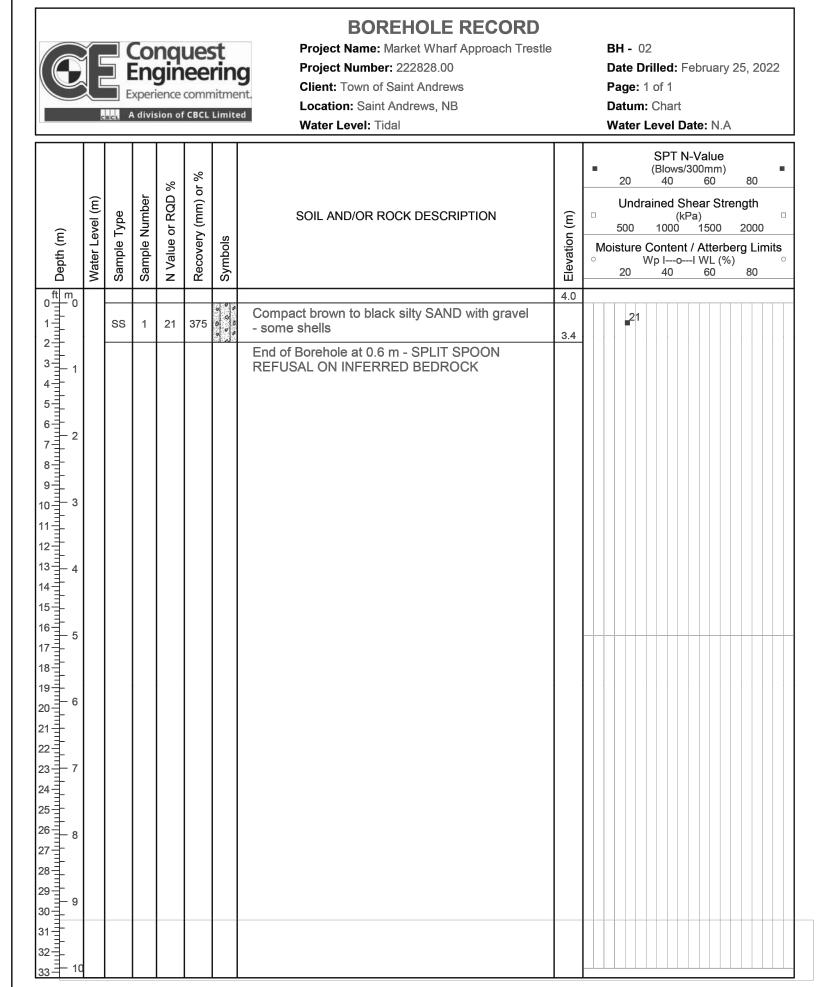
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KM

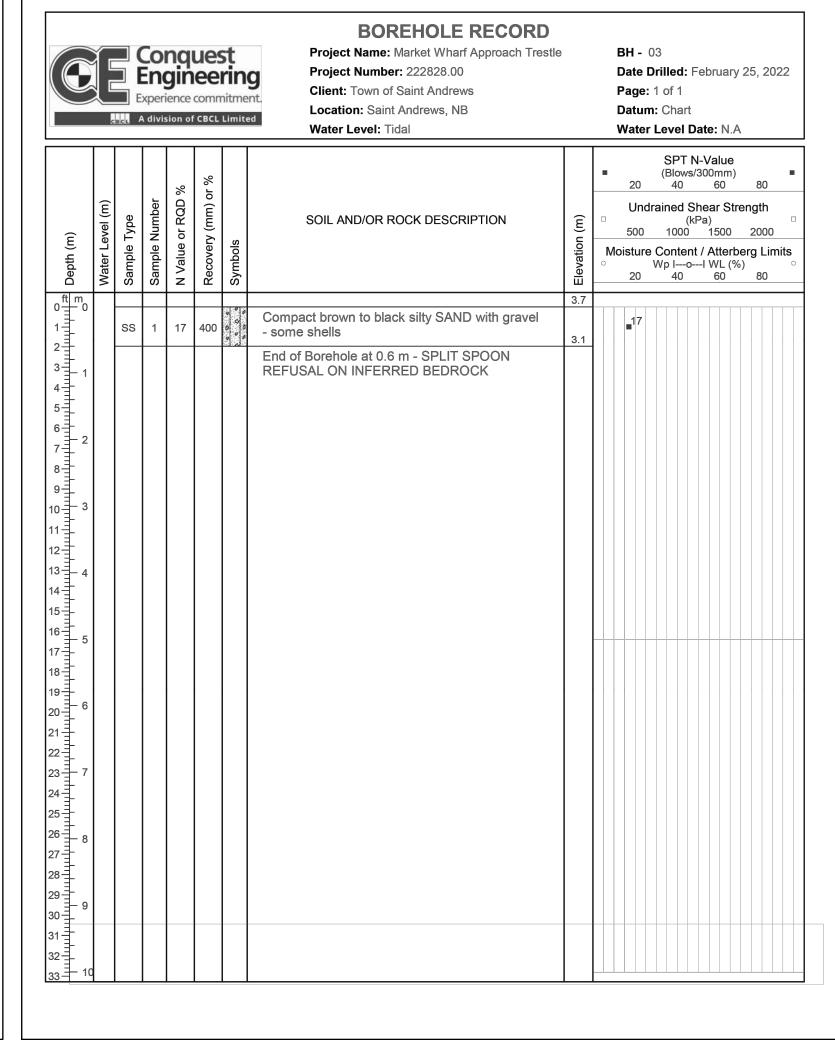
Sheet No
1 of 19

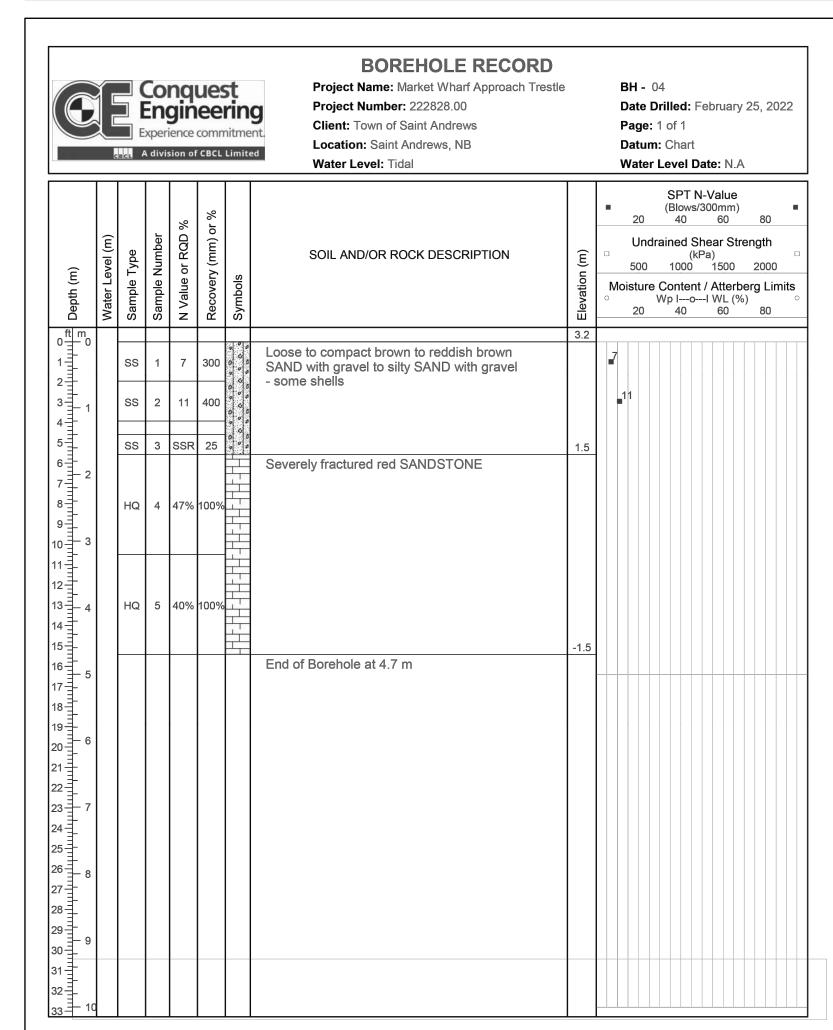
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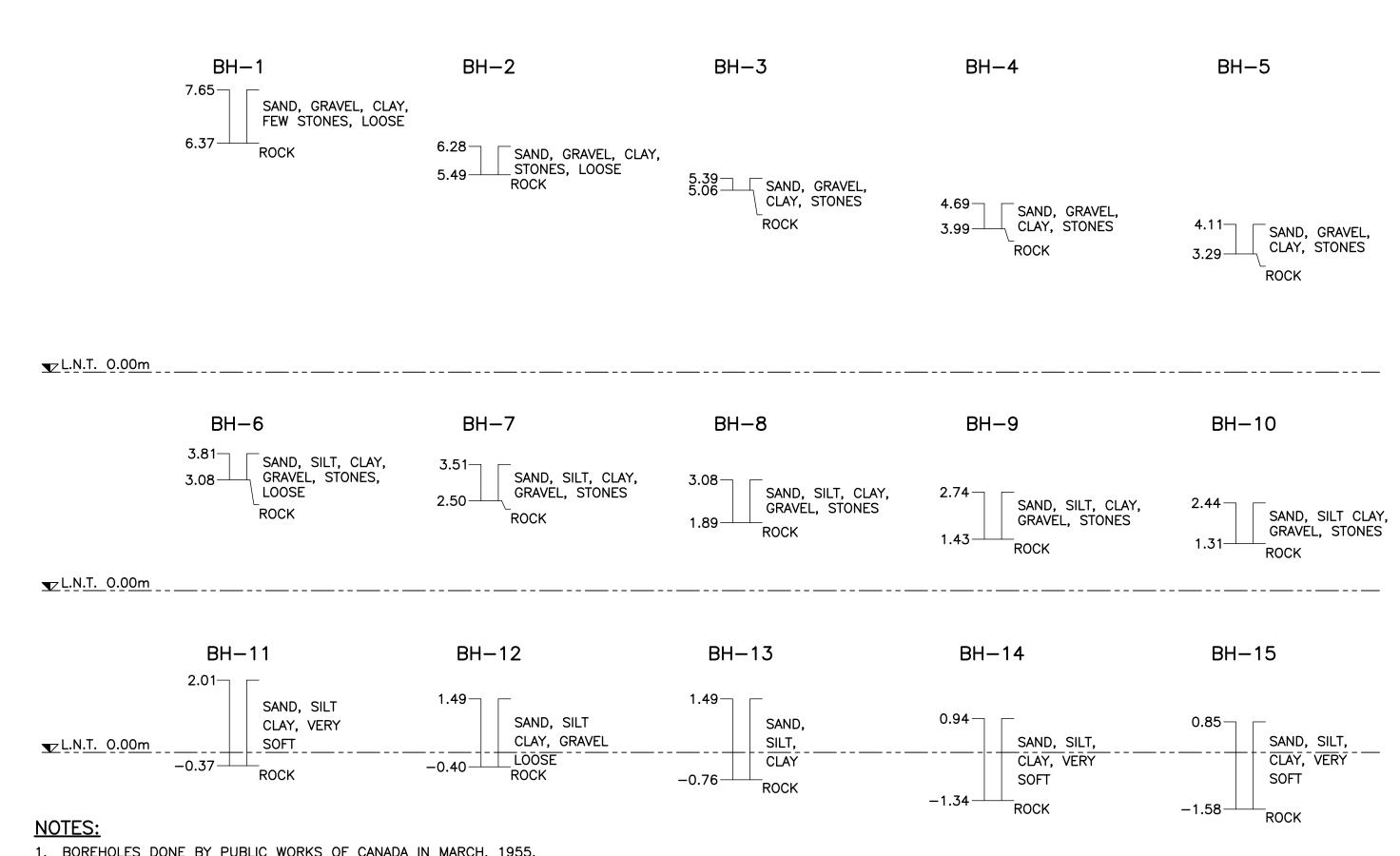
Province du Nouveau-Brunswick











- 1. BOREHOLES DONE BY PUBLIC WORKS OF CANADA IN MARCH, 1955.
- 2. ANY INFORMATION PERTAINING TO SOILS AND ALL BOREHOLE DATA ARE FURNISHED BY THE ENGINEER AS A MATTER OF INFORMATION ONLY. BOREHOLE DATA IS NOT TO BE INTERPRETED AS DESCRIPTIVE OF CONDITIONS AT LOCATIONS OTHER THANTHOSE DESCRIBED BY THE BOREHOLES THEMSELVES.
- 3. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO START OF WORK.

1995 BOREHOLE LOGS SCALE: 1:100

1:10000

ISSUED FOR TENDER

ISSUED FOR 100% REVIEW

SSUED FOR 70% REVIEW

Description

Revision or Issue

TOWN OF SAINT ANDREWS

TSA WHARF APPROACH REPLACEMENT

STRUCTURAL

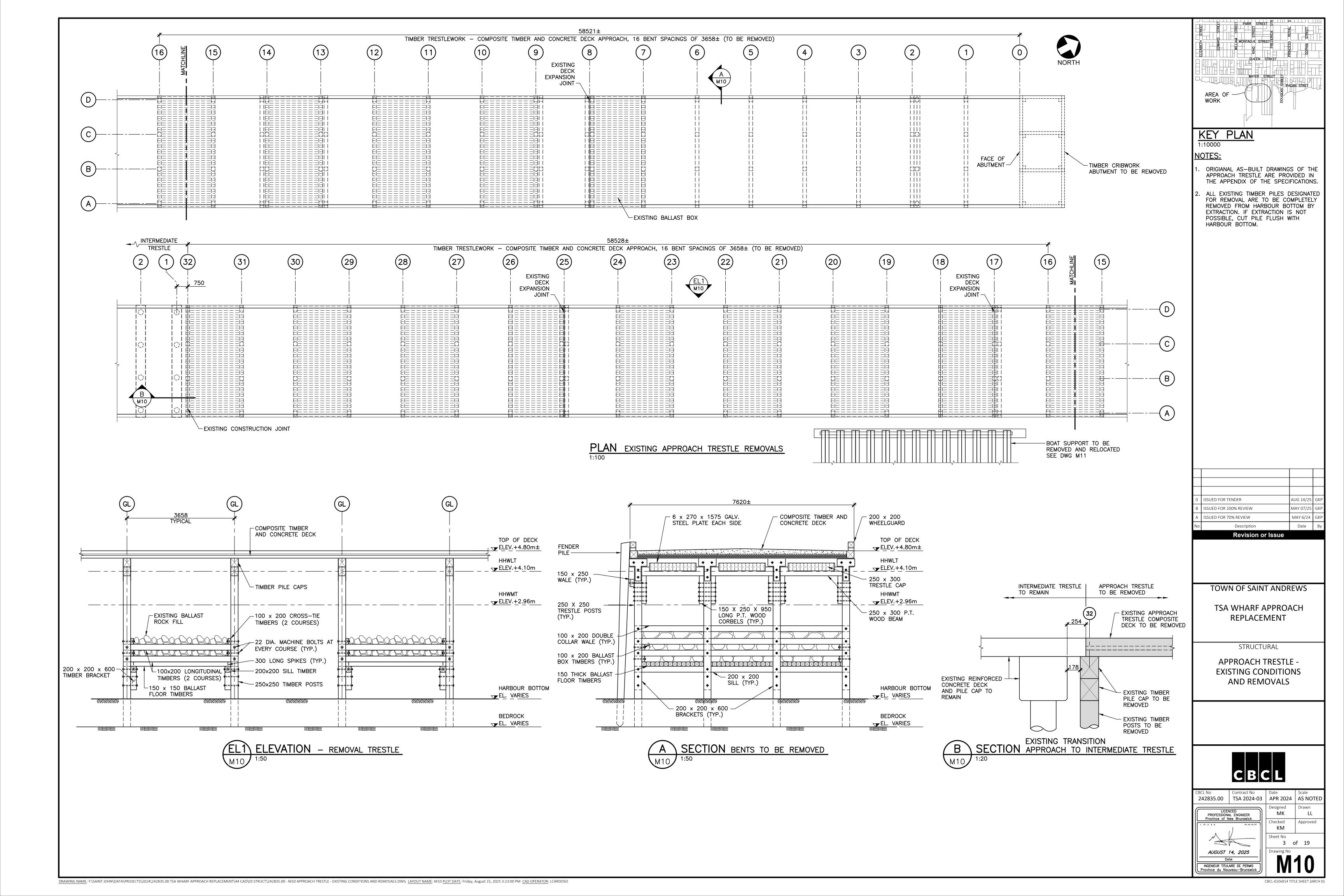
BOREHOLE LOGS

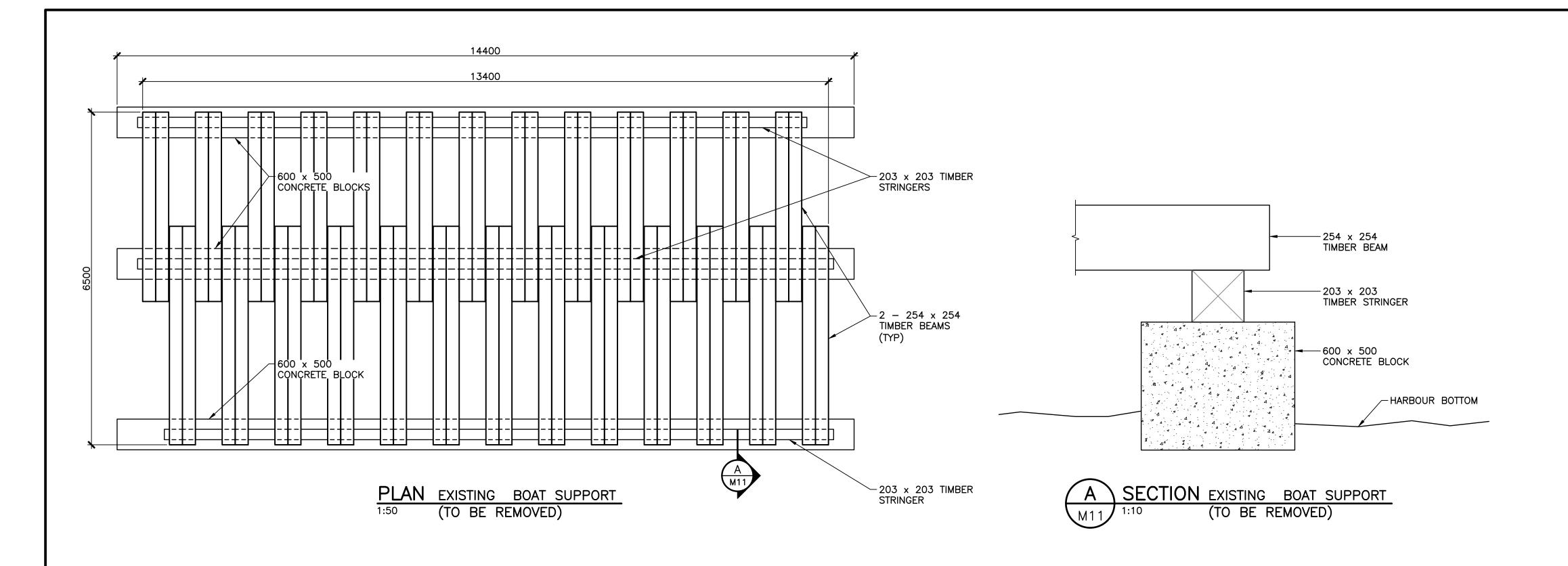
AUG 14/25

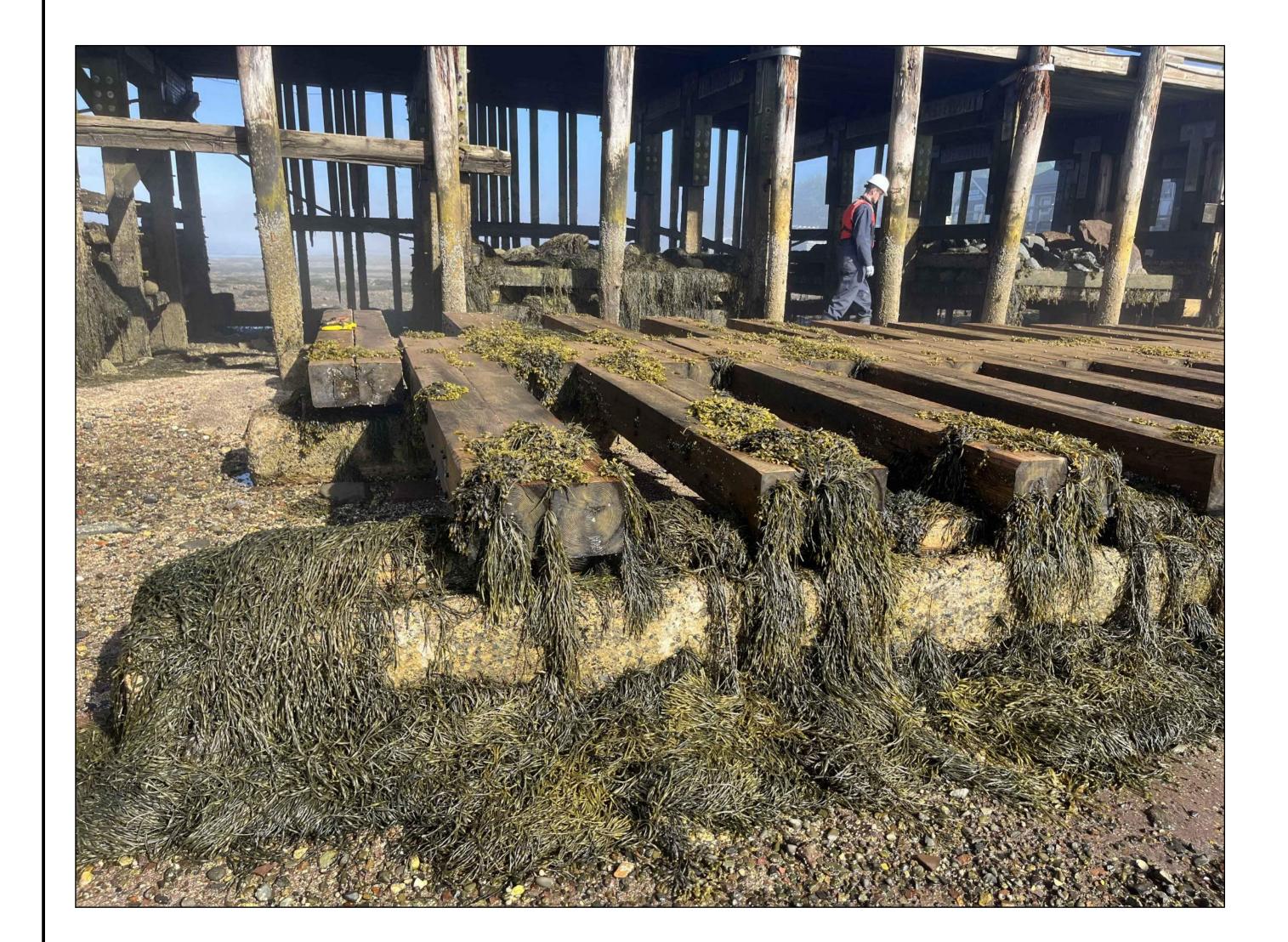
MAY 07/25

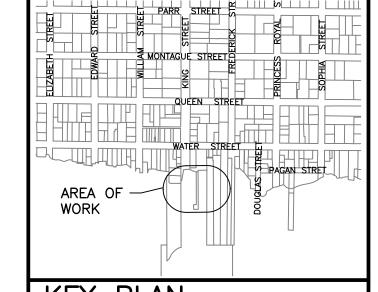
MAY 6/24

Contract No Date Scale
TSA 2024-03 APR 2024 AS NOTE 242835.00 Designed LICENCED PROFESSIONAL ENGINEER Province of New Brunswick MK Checked KM 2 of 19 Drawing No AUGUST 14, 2025 INGENIEUR TITULAIRE DE PERMIS









KEY PLAN 1:10000

No.	Description	Date	Ву
			_
Α	ISSUED FOR 70% REVIEW	MAY 6/24	GKP
В	ISSUED FOR 100% REVIEW	MAY 07/25	GKP
0	ISSUED FOR TENDER	AUG 14/25	GKP

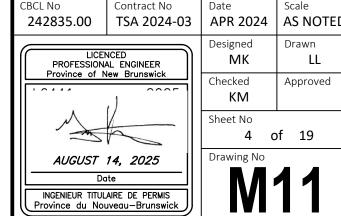
TOWN OF SAINT ANDREWS

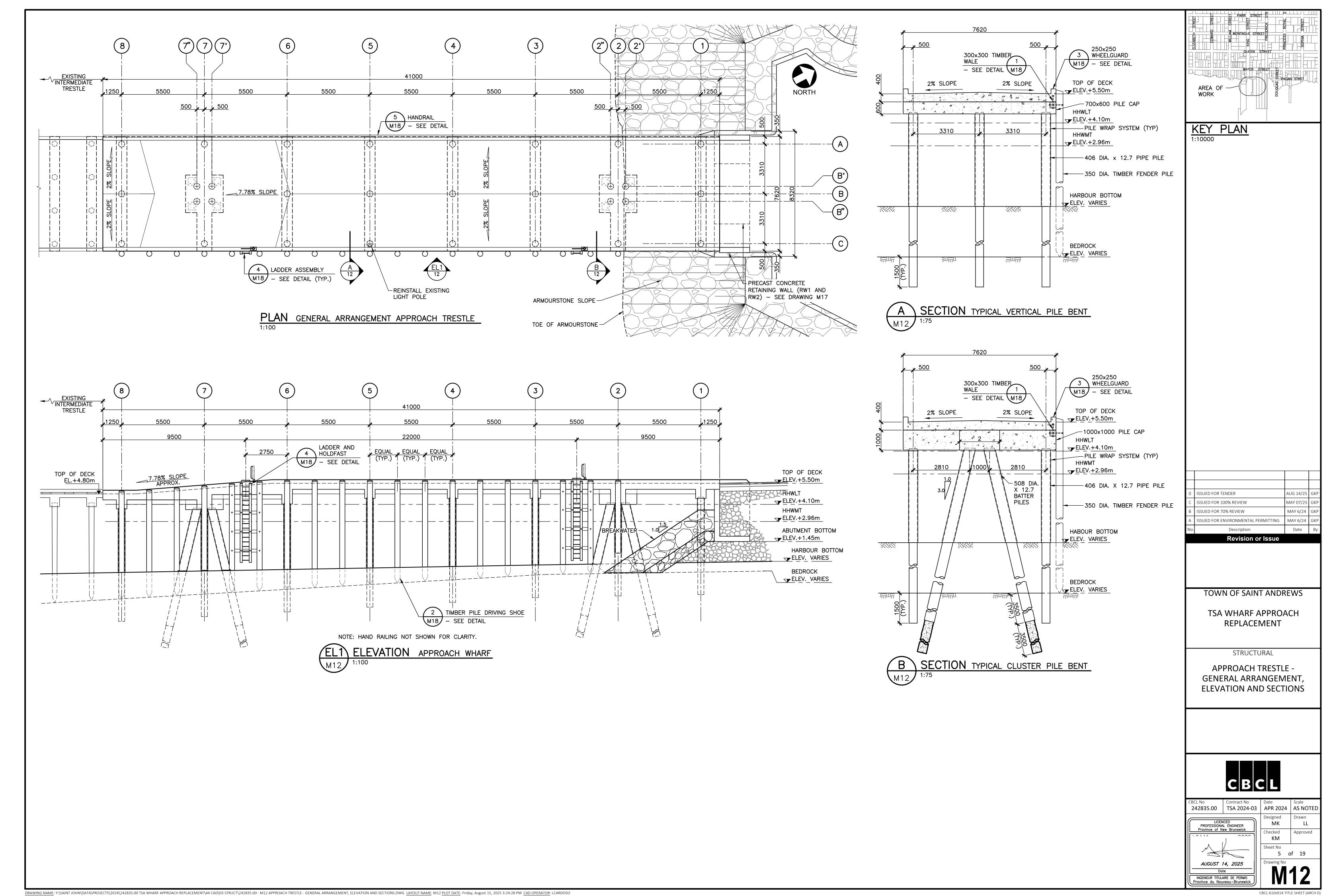
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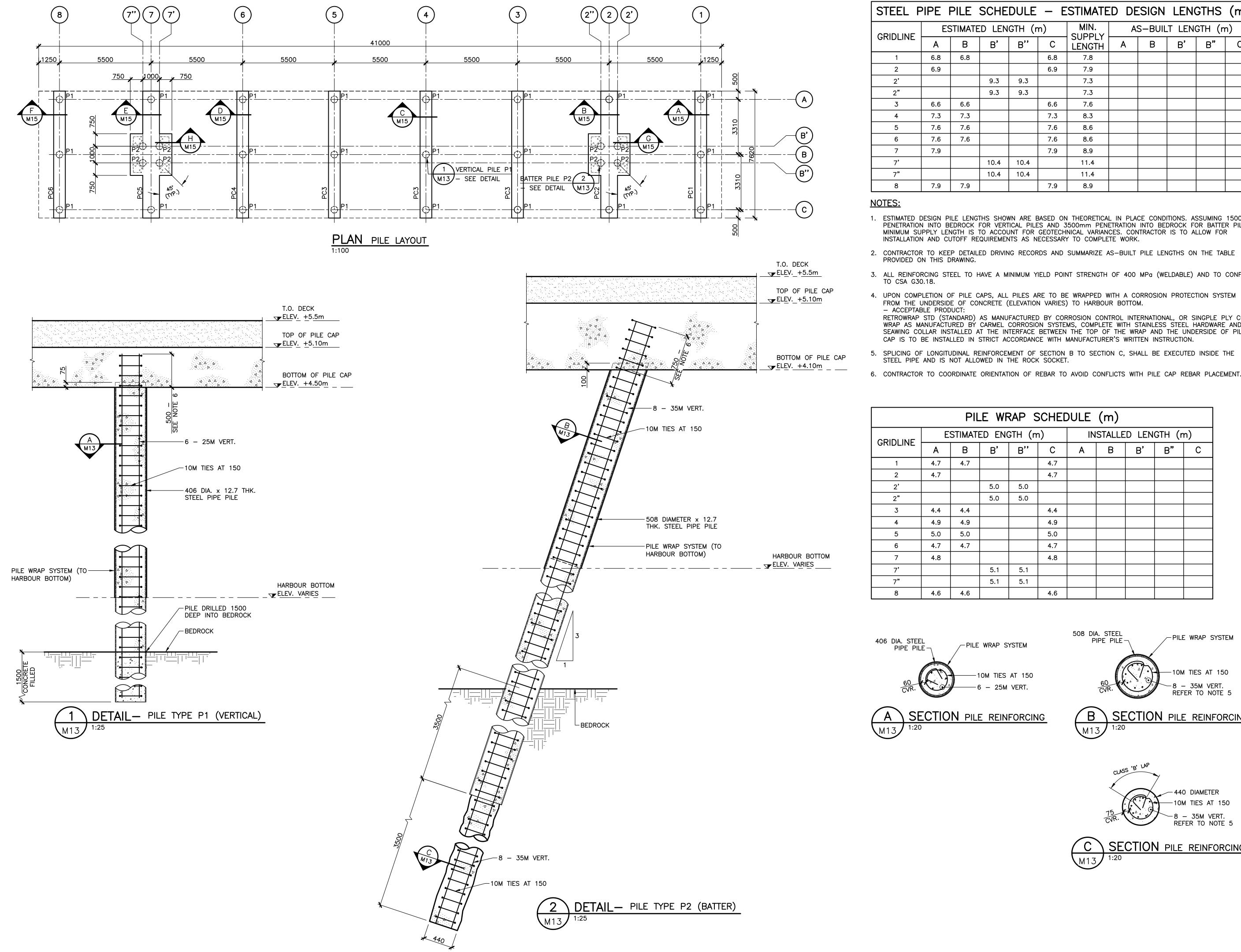
STRUCTURAL

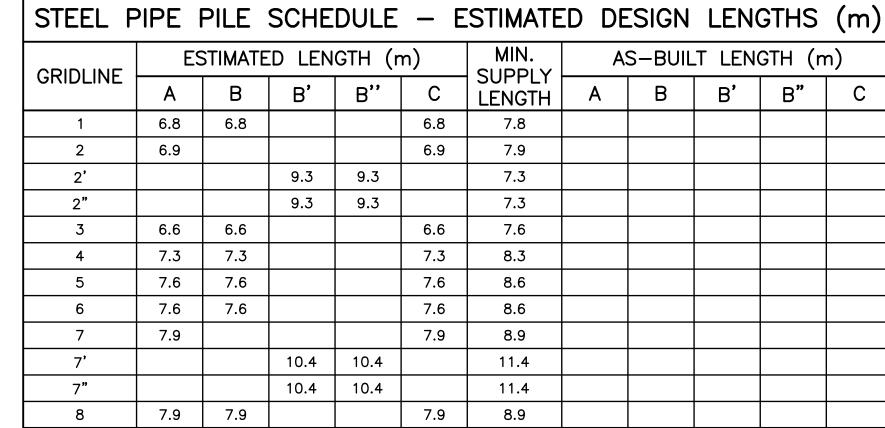
APPROACH TRESTLE -**EXISTING CONDITIONS AND REMOVALS SECTIONS**







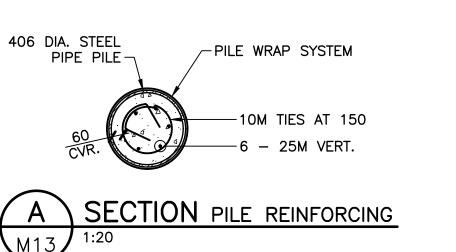


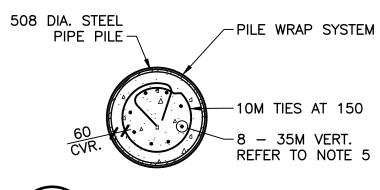


NOTES:

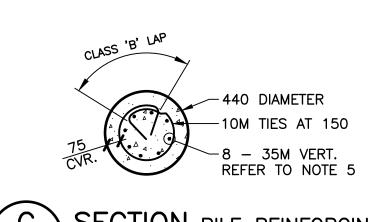
- ESTIMATED DESIGN PILE LENGTHS SHOWN ARE BASED ON THEORETICAL IN PLACE CONDITIONS. ASSUMING 1500mm PENETRATION INTO BEDROCK FOR VERTICAL PILES AND 3500mm PENETRATION INTO BEDROCK FOR BATTER PILES. MINIMUM SUPPLY LENGTH IS TO ACCOUNT FOR GEOTECHNICAL VARIANCES. CONTRACTOR IS TO ALLOW FOR INSTALLATION AND CUTOFF REQUIREMENTS AS NECESSARY TO COMPLETE WORK.
- 2. CONTRACTOR TO KEEP DETAILED DRIVING RECORDS AND SUMMARIZE AS-BUILT PILE LENGTHS ON THE TABLE PROVIDED ON THIS DRAWING.
- 3. ALL REINFORCING STEEL TO HAVE A MINIMUM YIELD POINT STRENGTH OF 400 MPa (WELDABLE) AND TO CONFORM TO CSA G30.18.
- FROM THE UNDERSIDE OF CONCRETE (ELEVATION VARIES) TO HARBOUR BOTTOM. – ACCEPTABLE PRODUCT: RETROWRAP STD (STANDARD) AS MANUFACTURED BY CORROSION CONTROL INTERNATIONAL, OR SINGPLE PLY CCS WRAP AS MANUFACTURED BY CARMEL CORROSION SYSTEMS, COMPLETE WITH STAINLESS STEEL HARDWARE AND SEAWING COLLAR INSTALLED AT THE INTERFACE BETWEEN THE TOP OF THE WRAP AND THE UNDERSIDE OF PILE CAP IS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTION.
- 5. SPLICING OF LONGITUDINAL REINFORCEMENT OF SECTION B TO SECTION C, SHALL BE EXECUTED INSIDE THE STEEL PIPE AND IS NOT ALLOWED IN THE ROCK SOCKET.
- 6. CONTRACTOR TO COORDINATE ORIENTATION OF REBAR TO AVOID CONFLICTS WITH PILE CAP REBAR PLACEMENT.

		PIL	E WF	RAP S	SCHE	DULE	(m)			
CDIDLINE	Е	STIMATI	ED EN	GTH (m	n)	IN	ISTALLE	D LEN	GTH (r	n)
GRIDLINE	Α	В	B'	В"	С	Α	В	B'	В"	С
1	4.7	4.7			4.7					
2	4.7				4.7					
2'			5.0	5.0						
2"			5.0	5.0						
3	4.4	4.4			4.4					
4	4.9	4.9			4.9					
5	5.0	5.0			5.0					
6	4.7	4.7			4.7					
7	4.8				4.8					_
7'			5.1	5.1						
7"			5.1	5.1						
8	4.6	4.6			4.6					

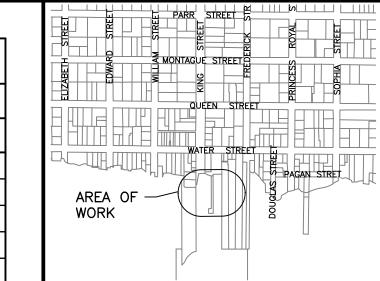












KEY PLAN 1:10000

LEGEND:

PC# - DENOTES PILE CAP TYPE #.

0	ISSUED FOR TENDER	AUG 14/25	GKP
В	ISSUED FOR 100% REVIEW	MAY 07/25	GKP
Α	ISSUED FOR 70% REVIEW	MAY 6/24	GKP
Vo.	Description	Date	Ву

TOWN OF SAINT ANDREWS

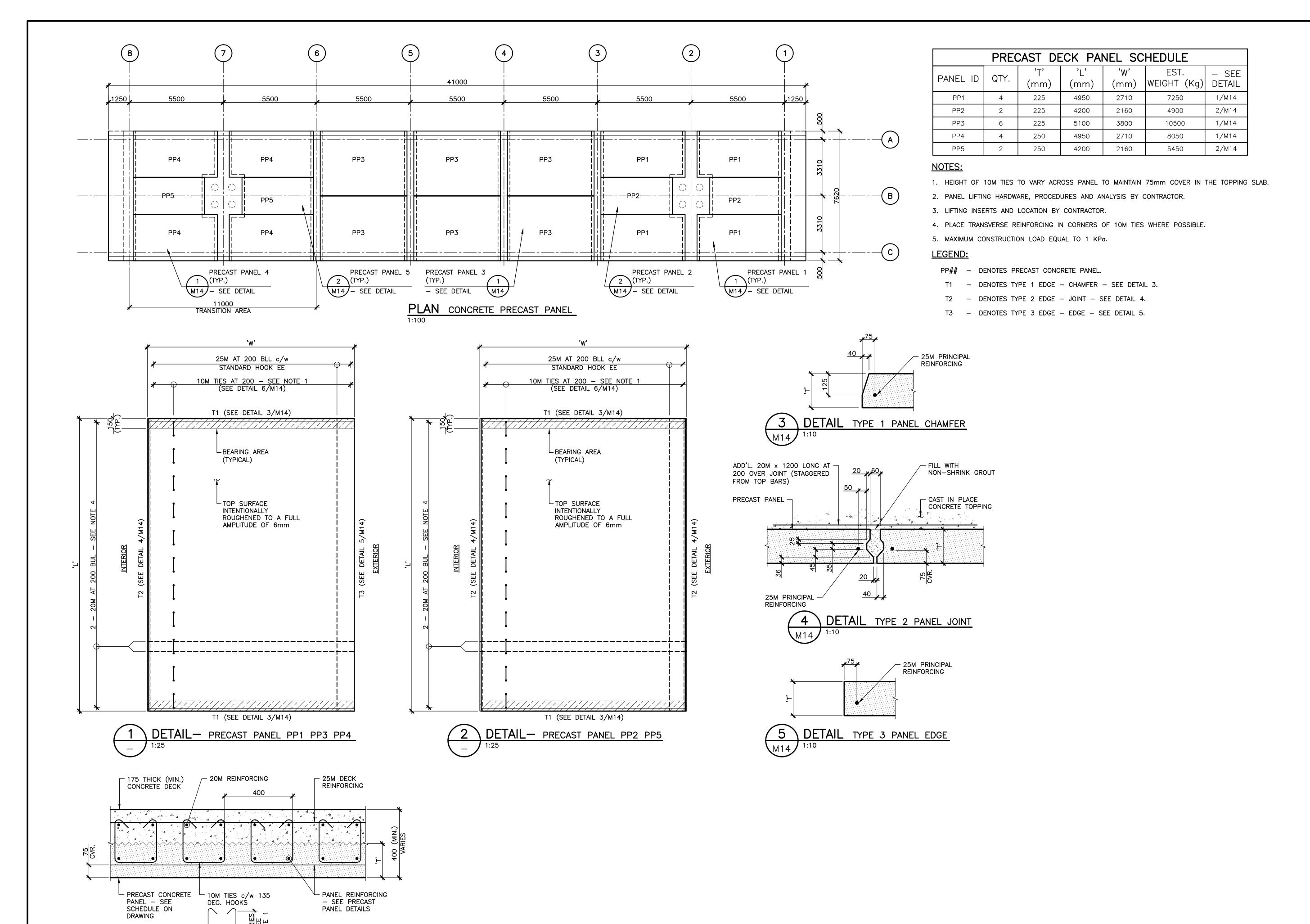
TSA WHARF APPROACH REPLACEMENT

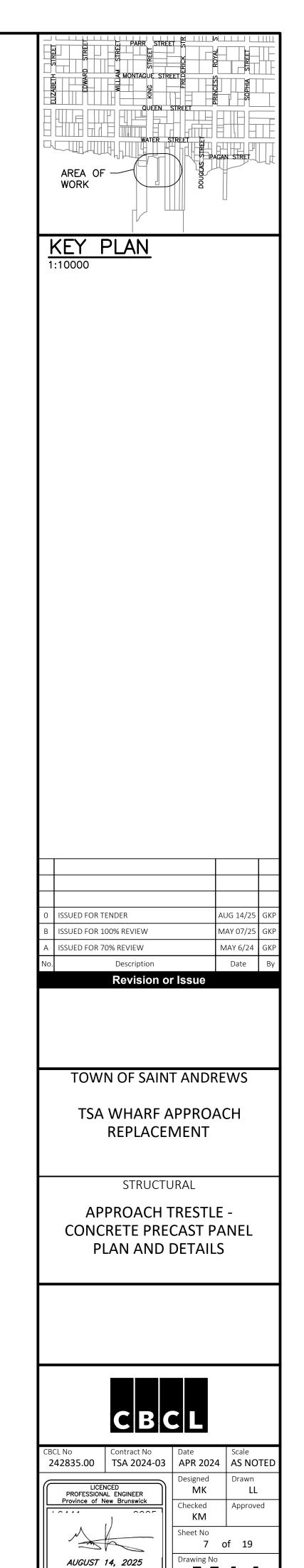
STRUCTURAL

APPROACH TRESTLE -PILE LAYOUT PLAN, SECTIONS AND DETAILS



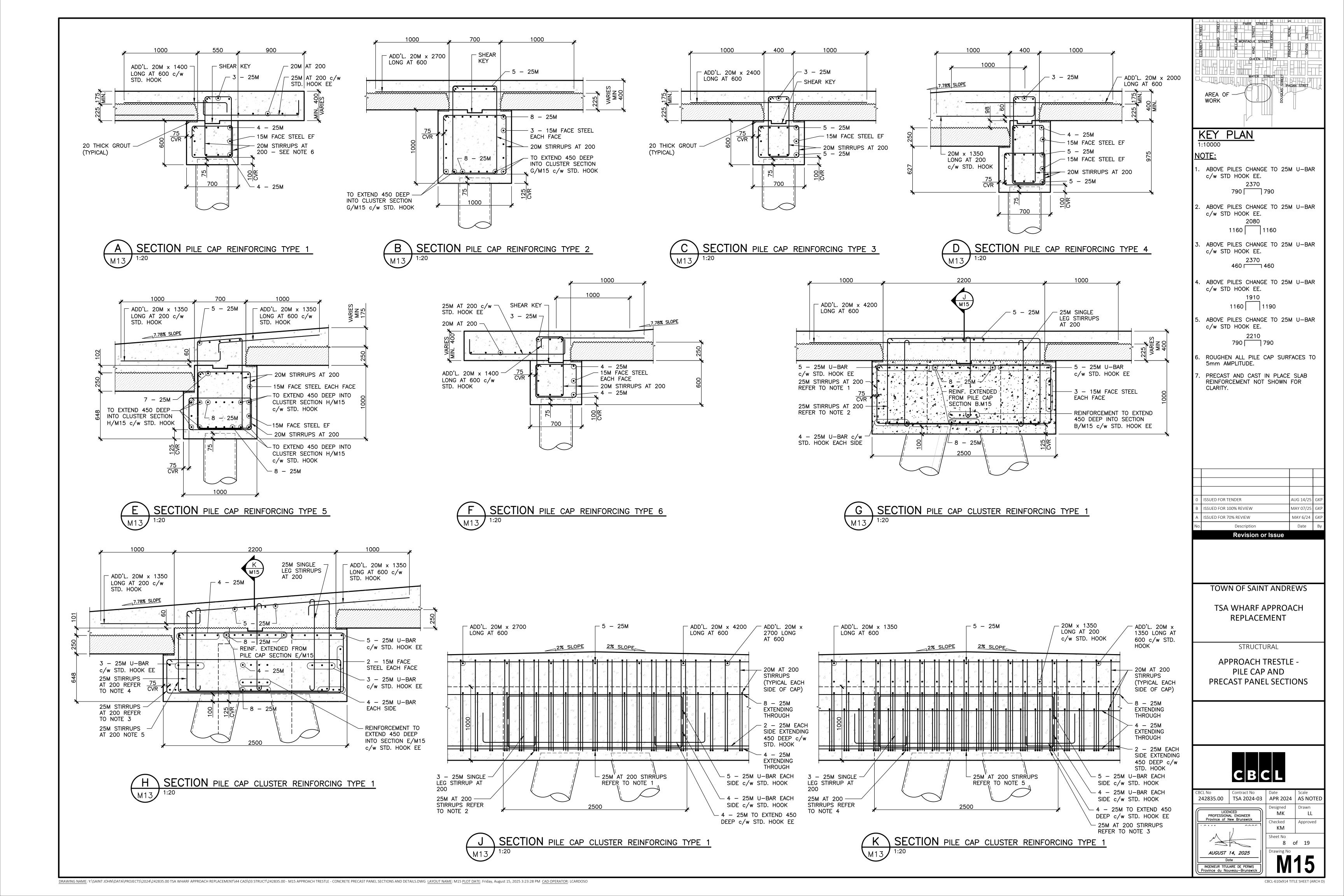
TSA 2024-03 | APR 2024 | AS NOTE 242835.00 LICENCED PROFESSIONAL ENGINEER Province of New Brunswick Checked KM 6 of 19 INGENIEUR TITULAIRE DE PERMIS

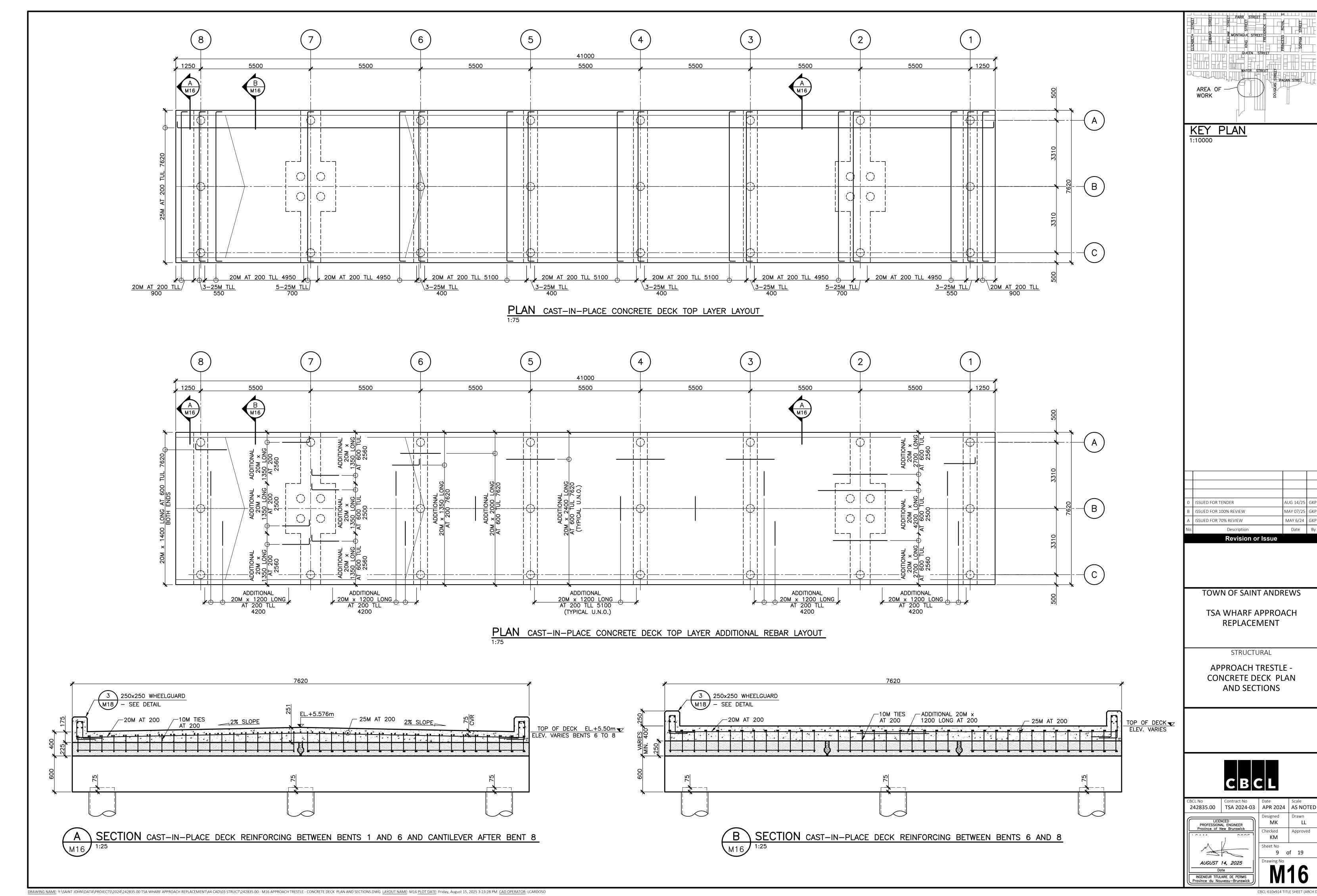


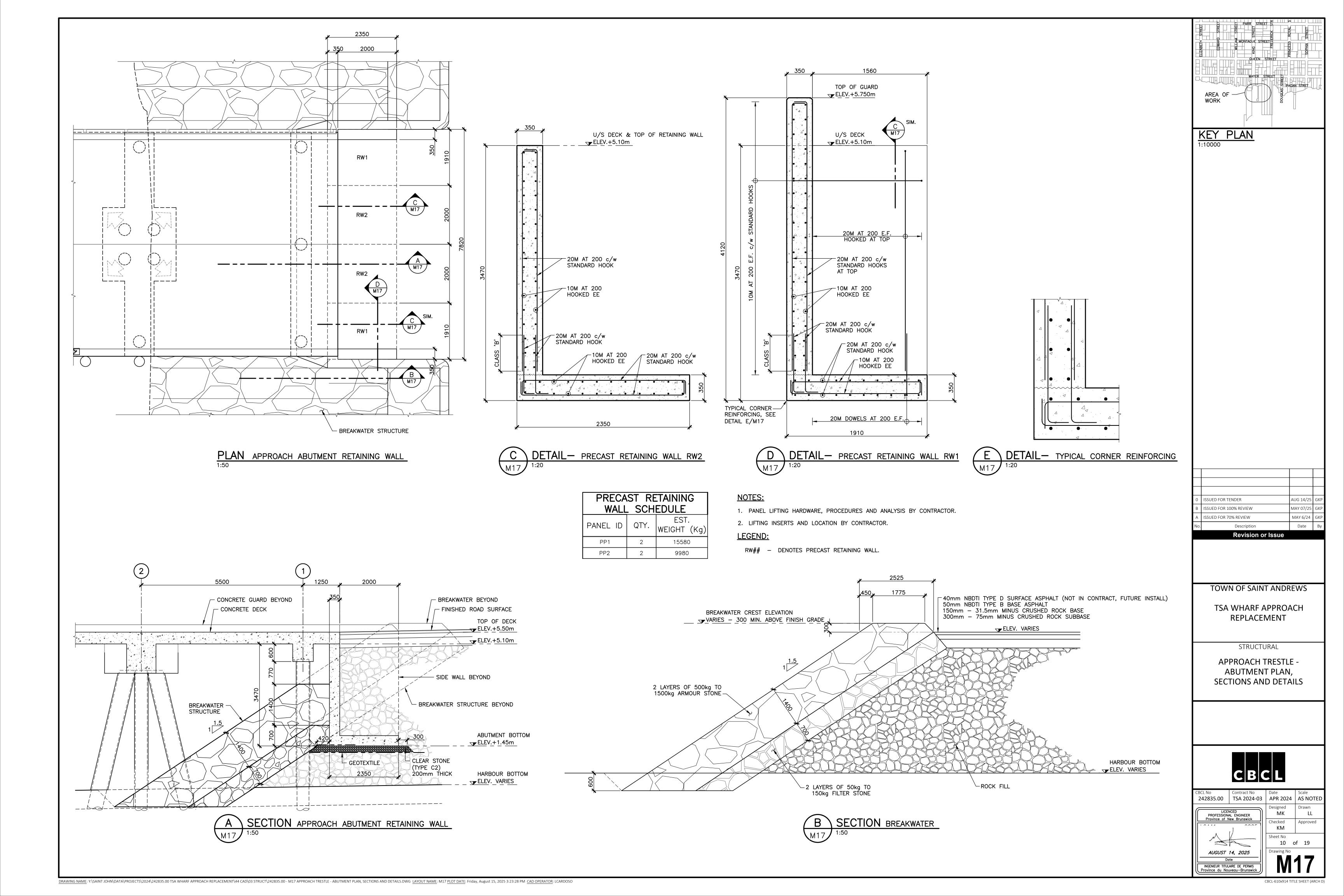


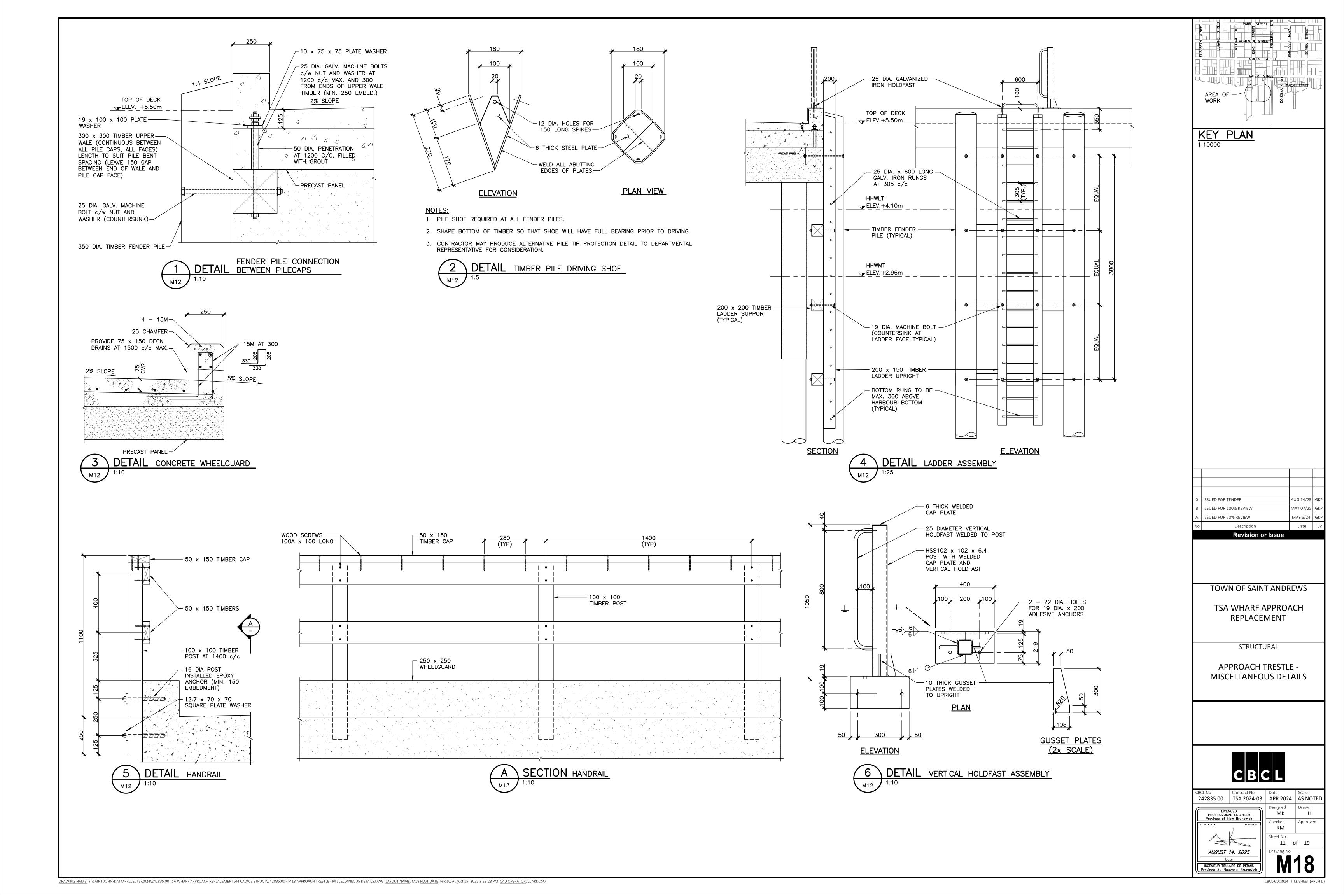
TRANSVERSE REINFORCING

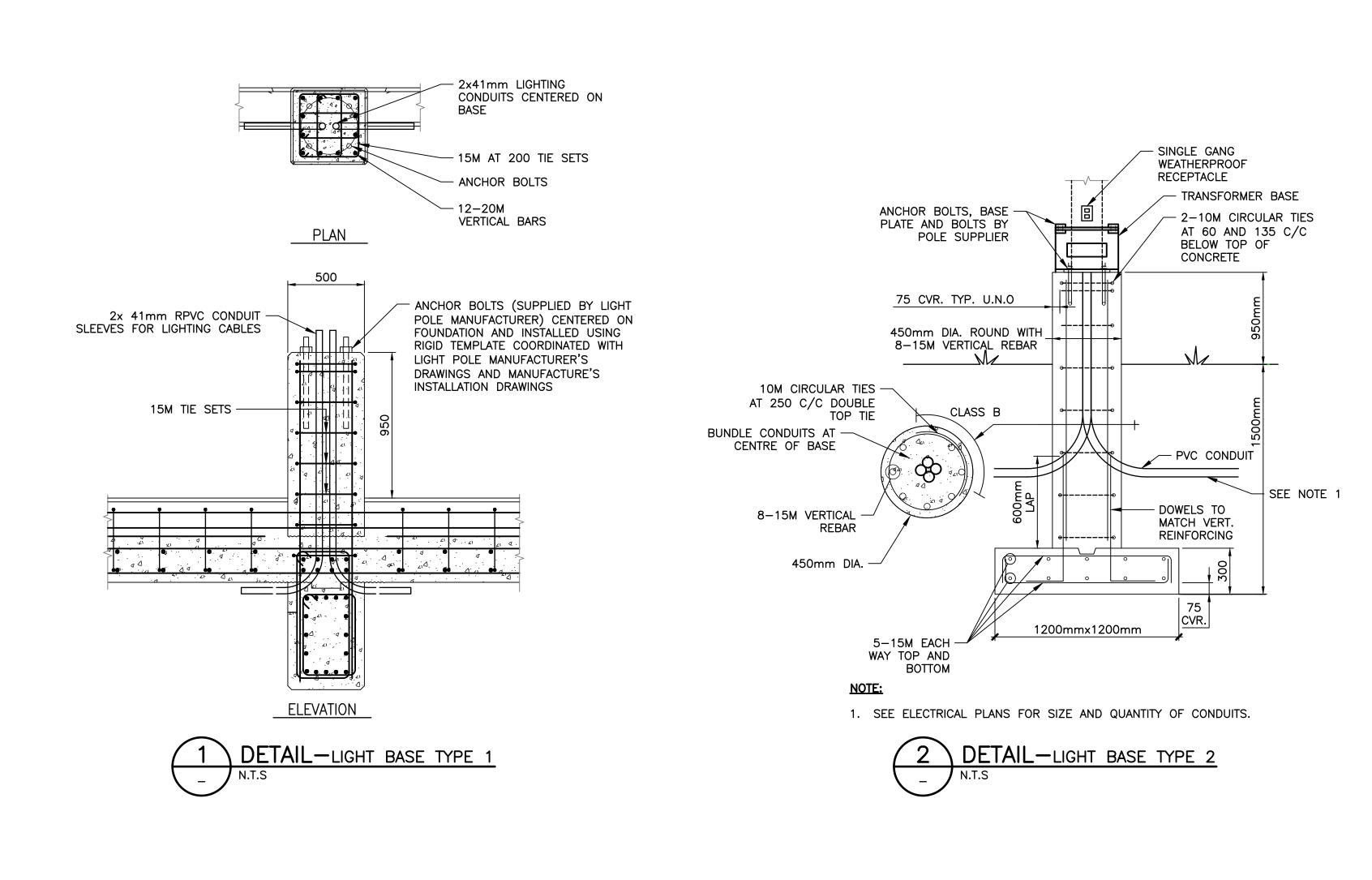
INGENIEUR TITULAIRE DE PERMIS Province du Nouveau-Brunswick

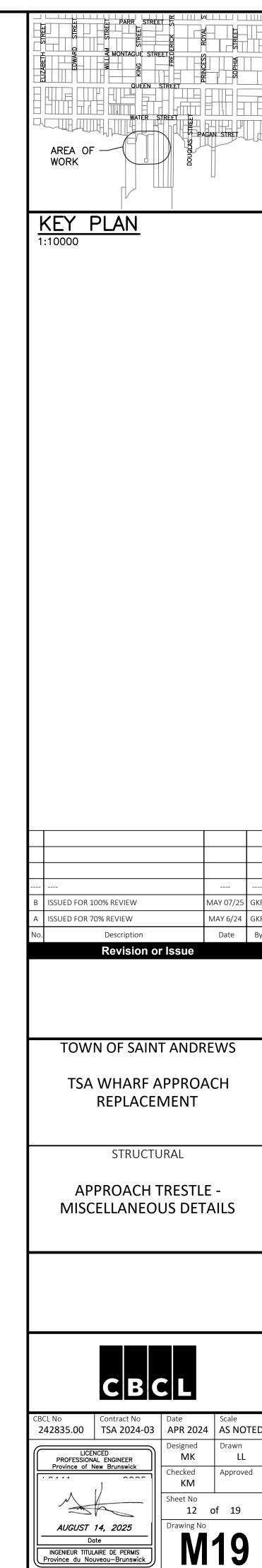


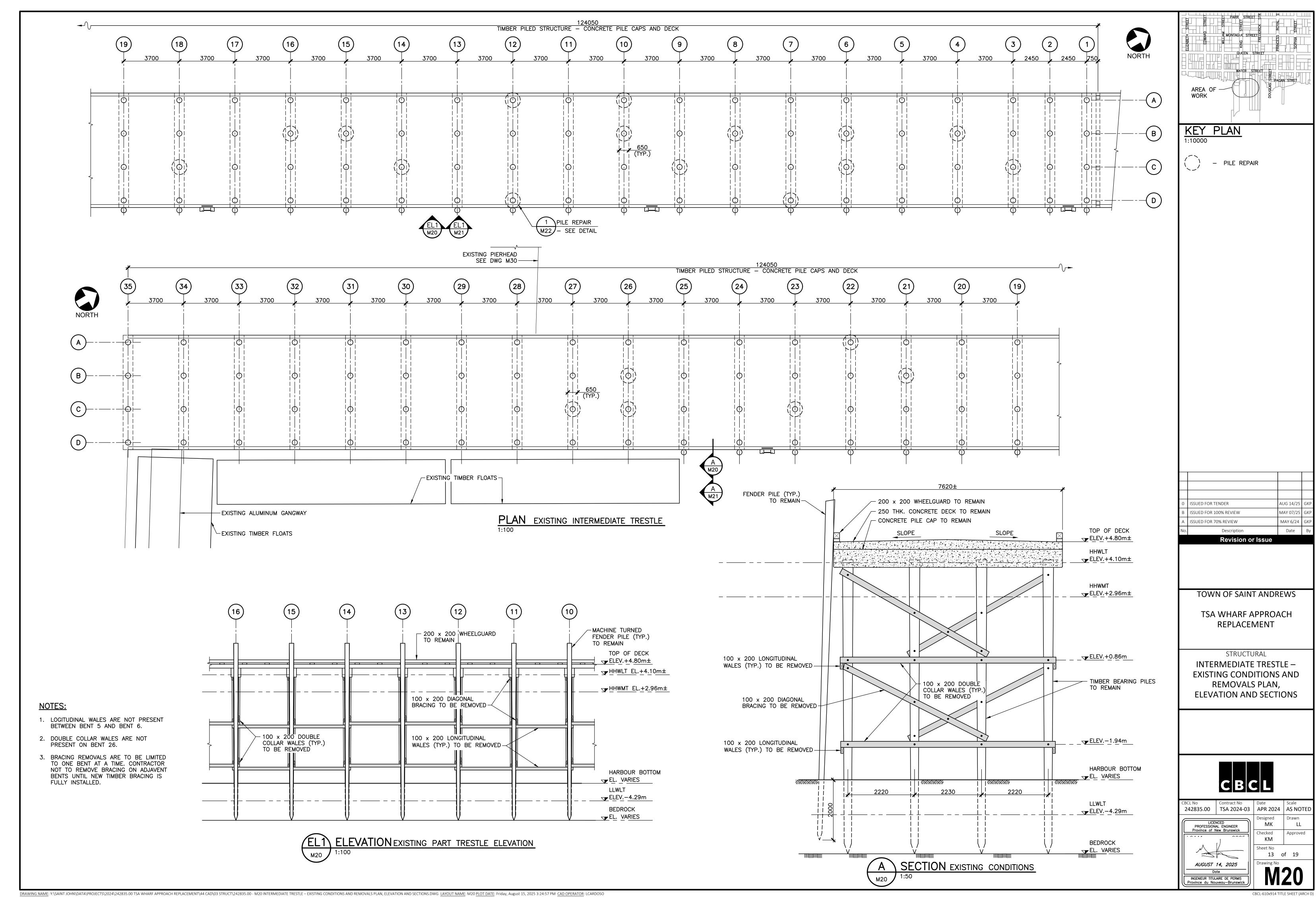


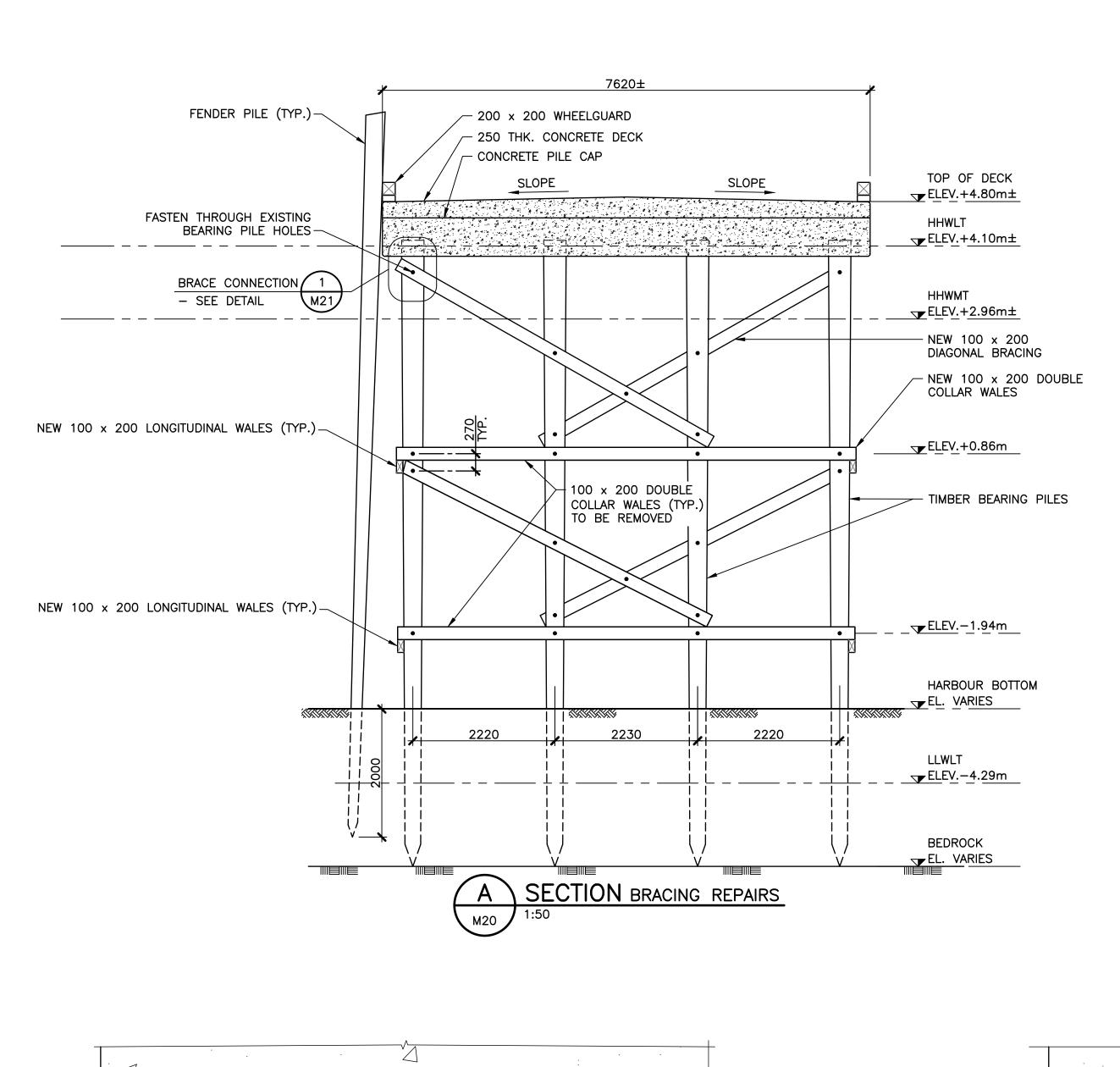


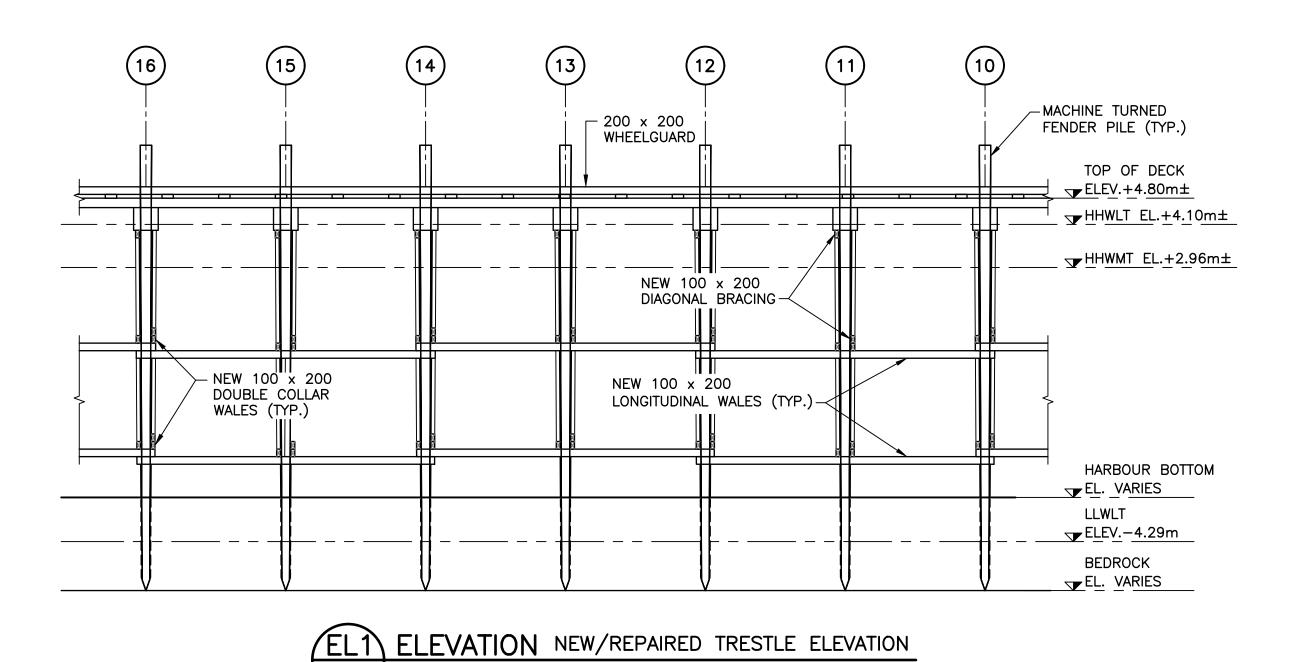


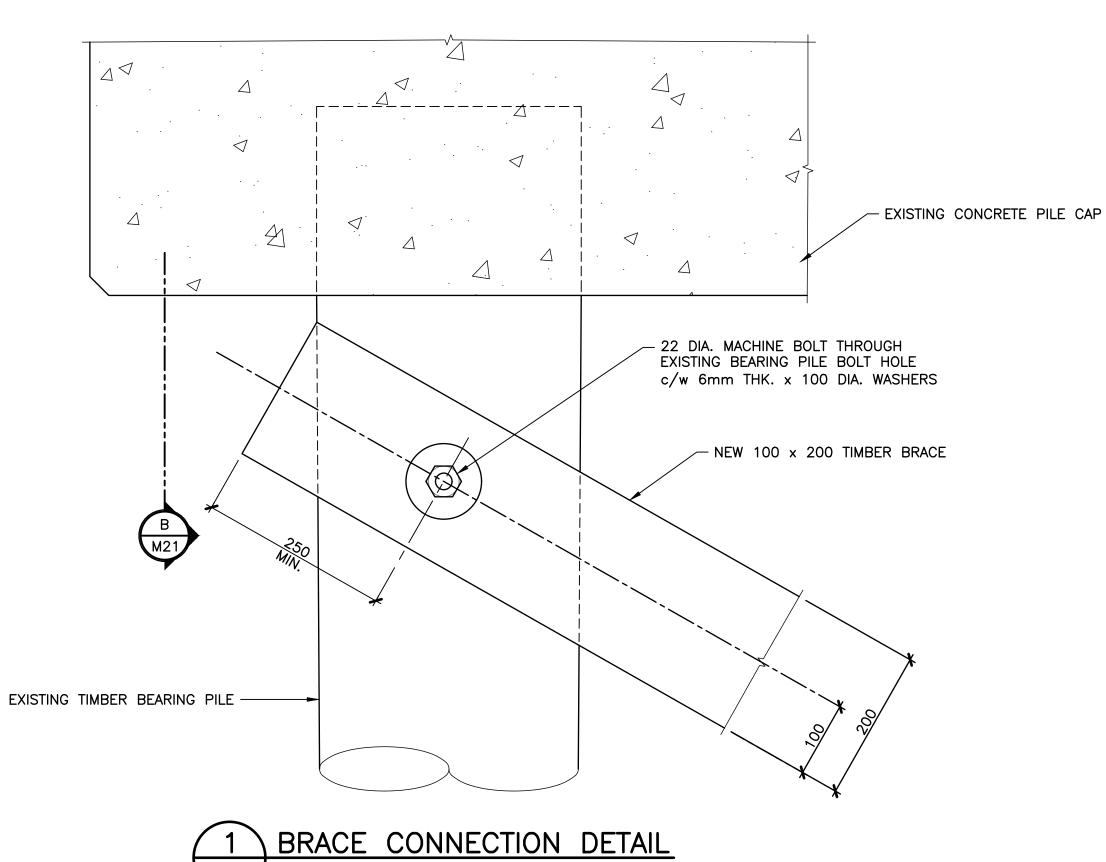


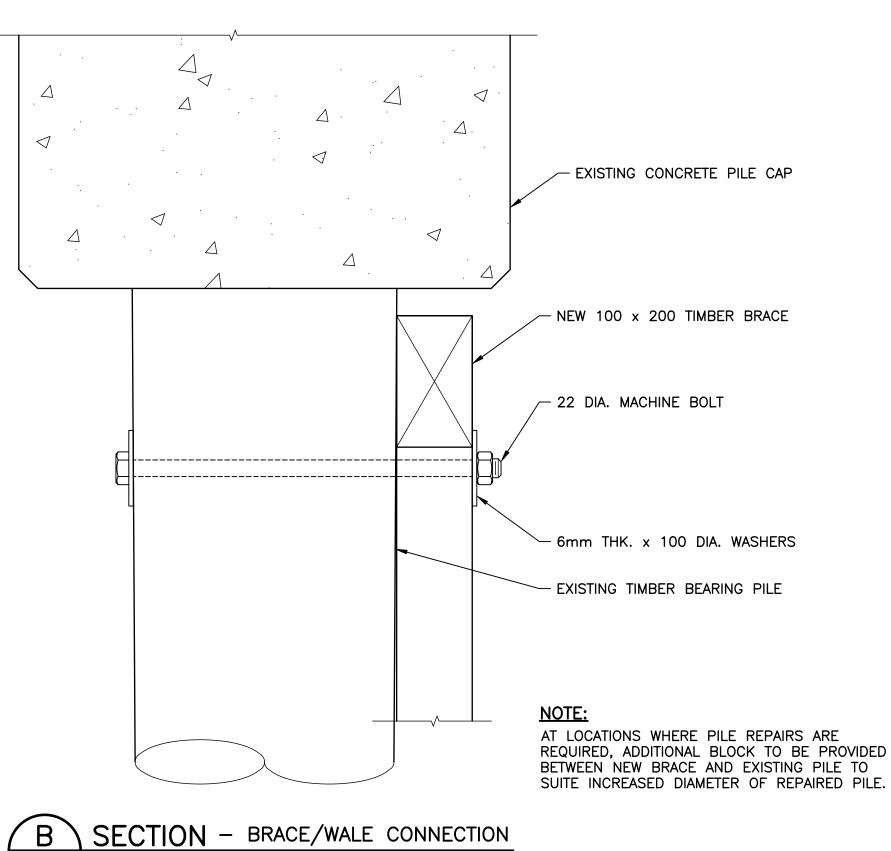






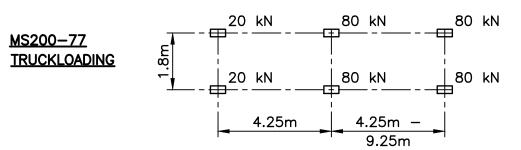


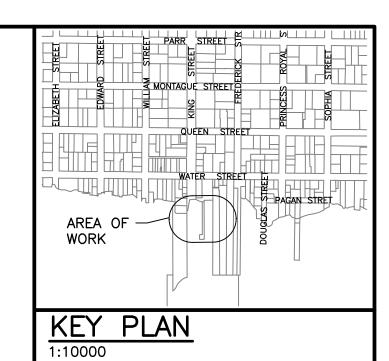




DESIGN LOADING:

- 1. INTERMEDIATE TRESTLE UNIFORM LIVE LOAD IS TO BE REDUCED FROM THE EXISTING 15kPa TO 10kPa.
- 2. INTERMEDIATE TRESTLE TRUCK LOADING: MS 200 TRUCK LOADING.





INTERMEDIATE TRESTLE -BRACING REPAIRS PLAN, **ELEVATION AND SECTIONS**

Revision or Issue

TOWN OF SAINT ANDREWS

TSA WHARF APPROACH

REPLACEMENT

STRUCTURAL

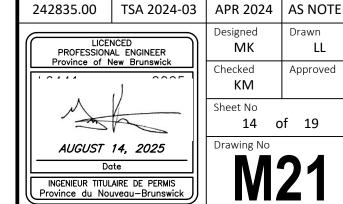
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ISSUED FOR 100% REVIEW

ISSUED FOR 70% REVIEW

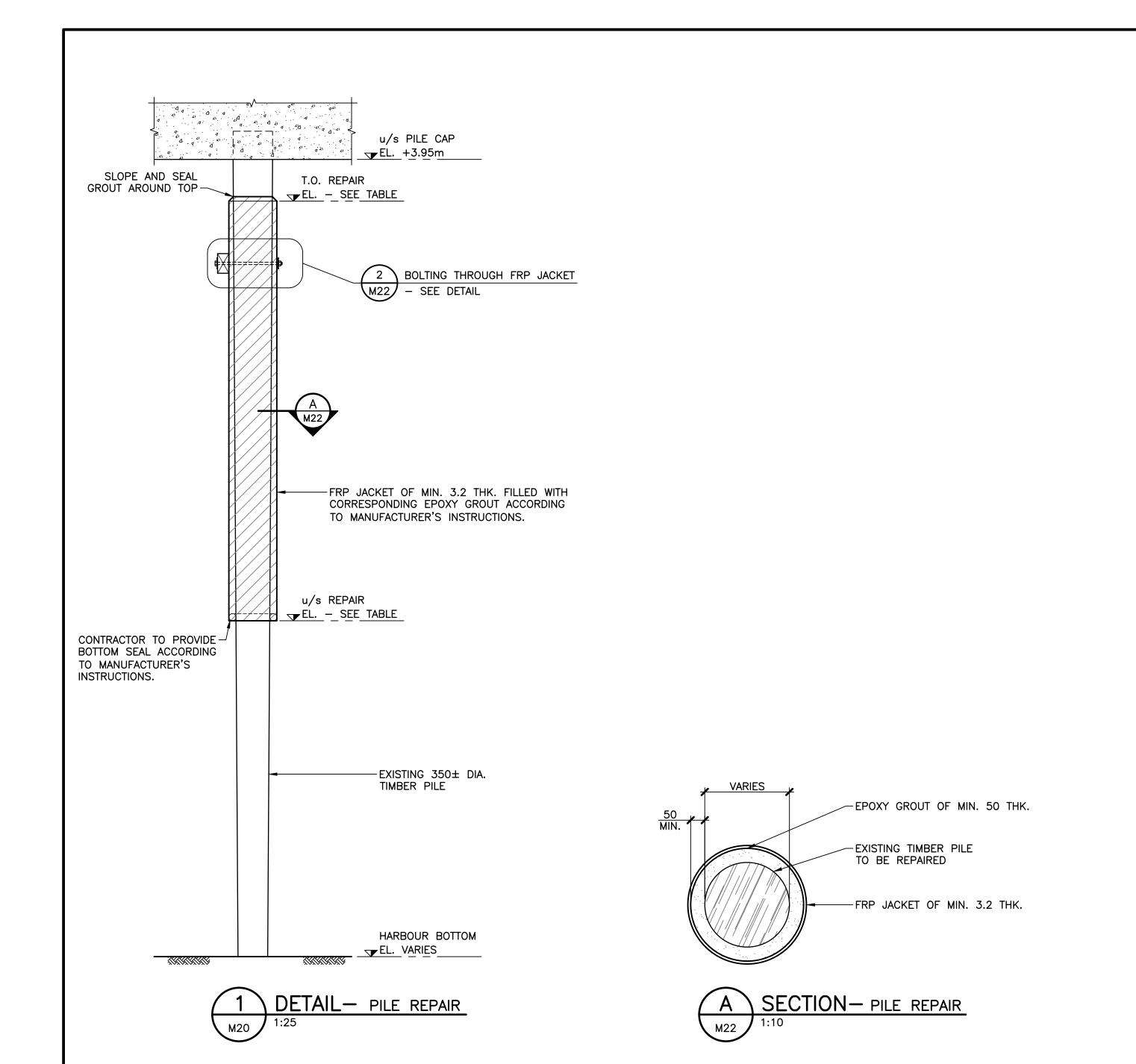
MAY 6/24

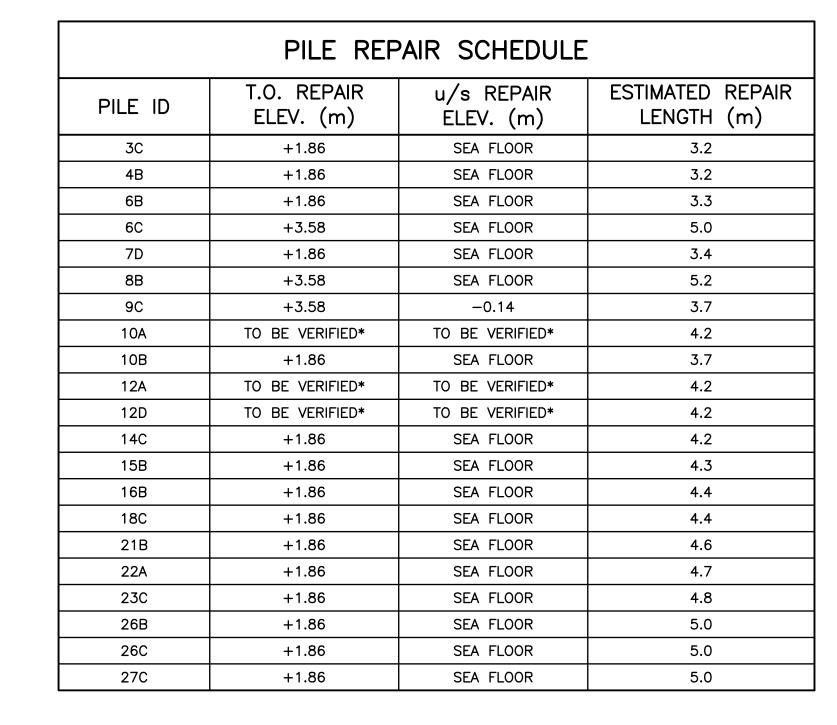




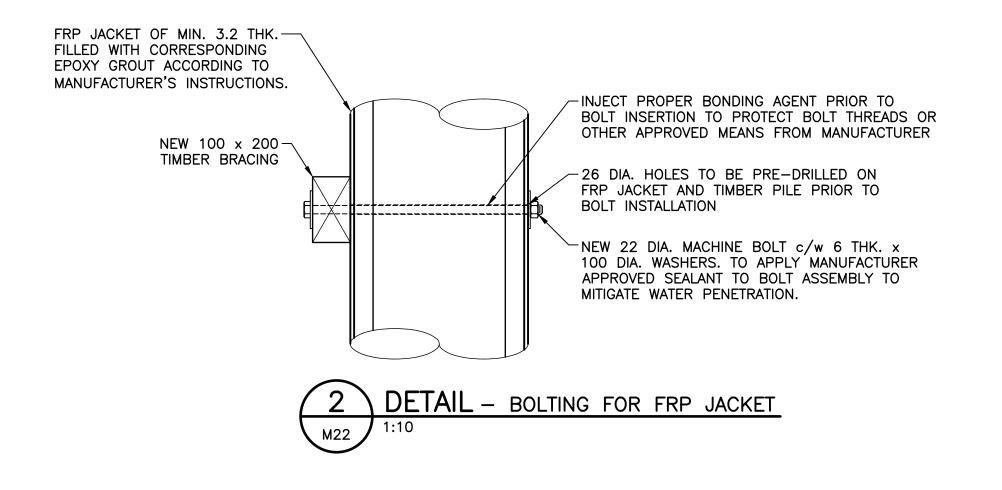
Checked KM 14 of 19 Drawing No.

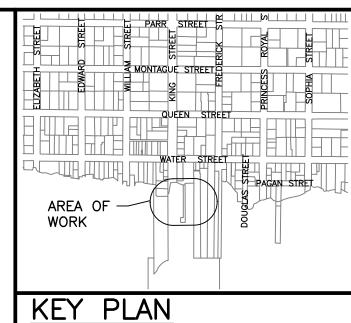
DRAWING NAME: Y:\SAINT JOHN\DATA\PROJECTS\2024\242835.00 TSA WHARF APPROACH REPLACEMENT\44 CAD\03 STRUCT\242835.00 - M21 INTERMEDIATE TRESTLE - BRACING REPAIRS PLAN, ELEVATION AND SECTIONS.DWG LAYOUT NAME: M21 PLOT DATE: Friday, August 15, 2025 3:23:59 PM CAD OPERATOR: LCARDOSO





* CONTRACTOR TO INSPECT TIMBER PILE AND CONFIRM LOCATION OF DAMAGE IN THE PILE WITH ENGINEER PRIOR TO REPAIR.





1:10000

ISSUED FOR TENDER ISSUED FOR 100% REVIEW ISSUED FOR 70% REVIEW MAY 6/24

Revision or Issue

TOWN OF SAINT ANDREWS

TSA WHARF APPROACH REPLACEMENT

STRUCTURAL

INTERMEDIATE TRESTLE – PILE REPAIR DETAILS



242835.00 | TSA 2024-03 | APR 2024 | AS NOTE LICENCED PROFESSIONAL ENGINEER Province of New Brunswick AUGUST 14, 2025 INGENIEUR TITULAIRE DE PERMIS Province du Nouveau-Brunswick

Checked Drawing No.

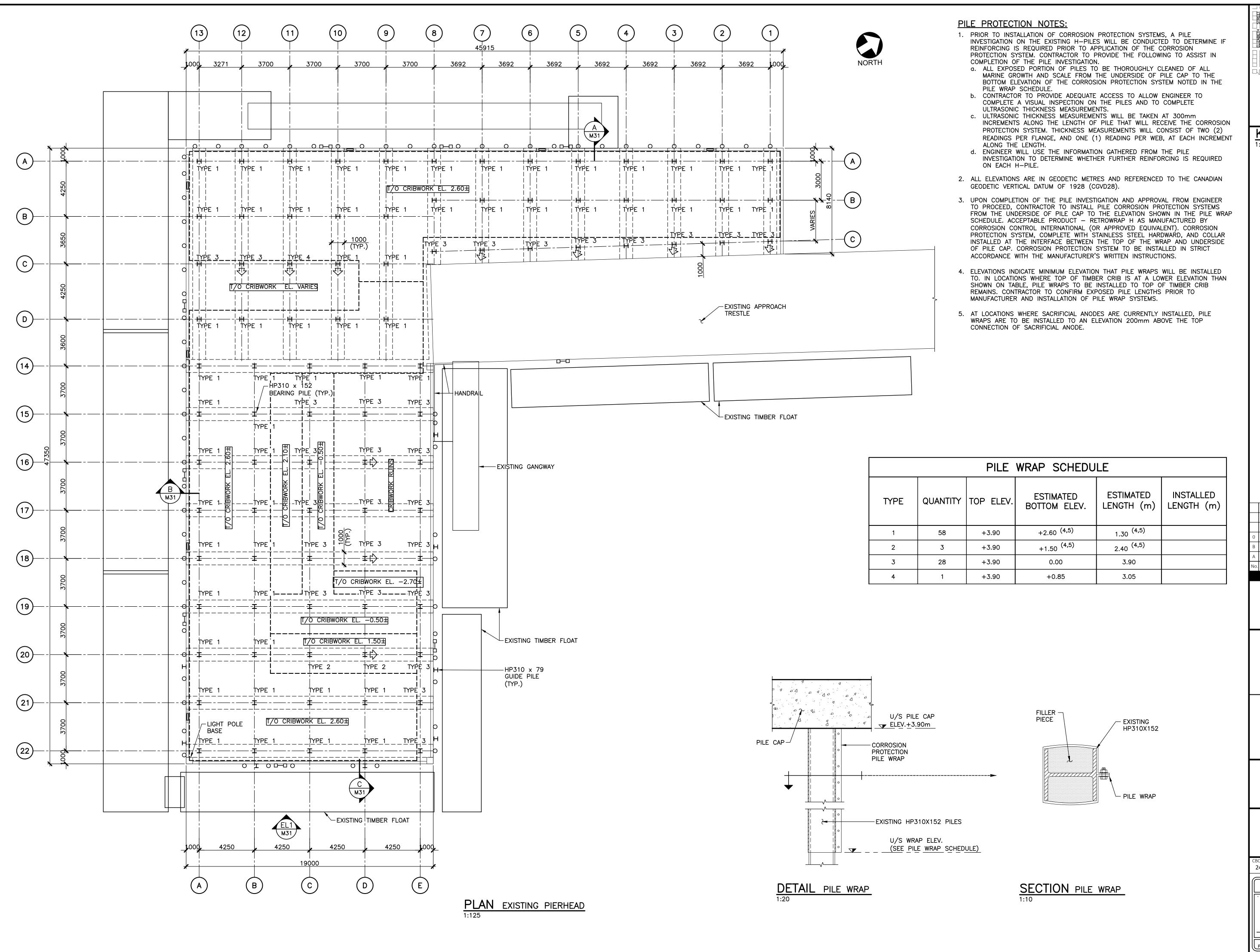
1. FRP WRAP AND EPOXY GROUT ARE TO BE APPLIED ACCORDING TO MANUFACTURER'S INSTRUCTIONS

2. FRP FORM CLOSURE IS TO BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS

3. PUMPING PORTS ARE TO BE INSTALLED AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS

15 of 19

KM



PARR STREET STRE

<u>KEY PLAN</u>

ISSUED FOR TENDER
AUG 14/25 GKP
ISSUED FOR 100% REVIEW
MAY 07/25 GKP
ISSUED FOR 70% REVIEW
MAY 6/24 GKP
Description
Date By

Revision or Issue

TOWN OF SAINT ANDREWS

TSA WHARF APPROACH REPLACEMENT

STRUCTURAL

PIER HEAD – EXISTING CONDITIONS PLAN, ELEVATION AND SECTIONS

CBCL

CBCL No
242835.00 TSA 2024-03 Date

APR 2024 AS NOTE

Designed MK LL

Checked MMK

Checked KM

Sheet No
16 of 19

Drawing No

INGENIEUR TITULAIRE DE PERMIS Province du Nouveau-Brunswick

Date Scale

APR 2024 AS NOTE

Drawing No

Total Date Scale

APR 2024 AS NOTE

Drawing No

Drawing No

Drawing No

Total Date Scale

APR 2024 AS NOTE

Drawing No

Drawing No

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APR 2024 AS NOTE

Drawing No

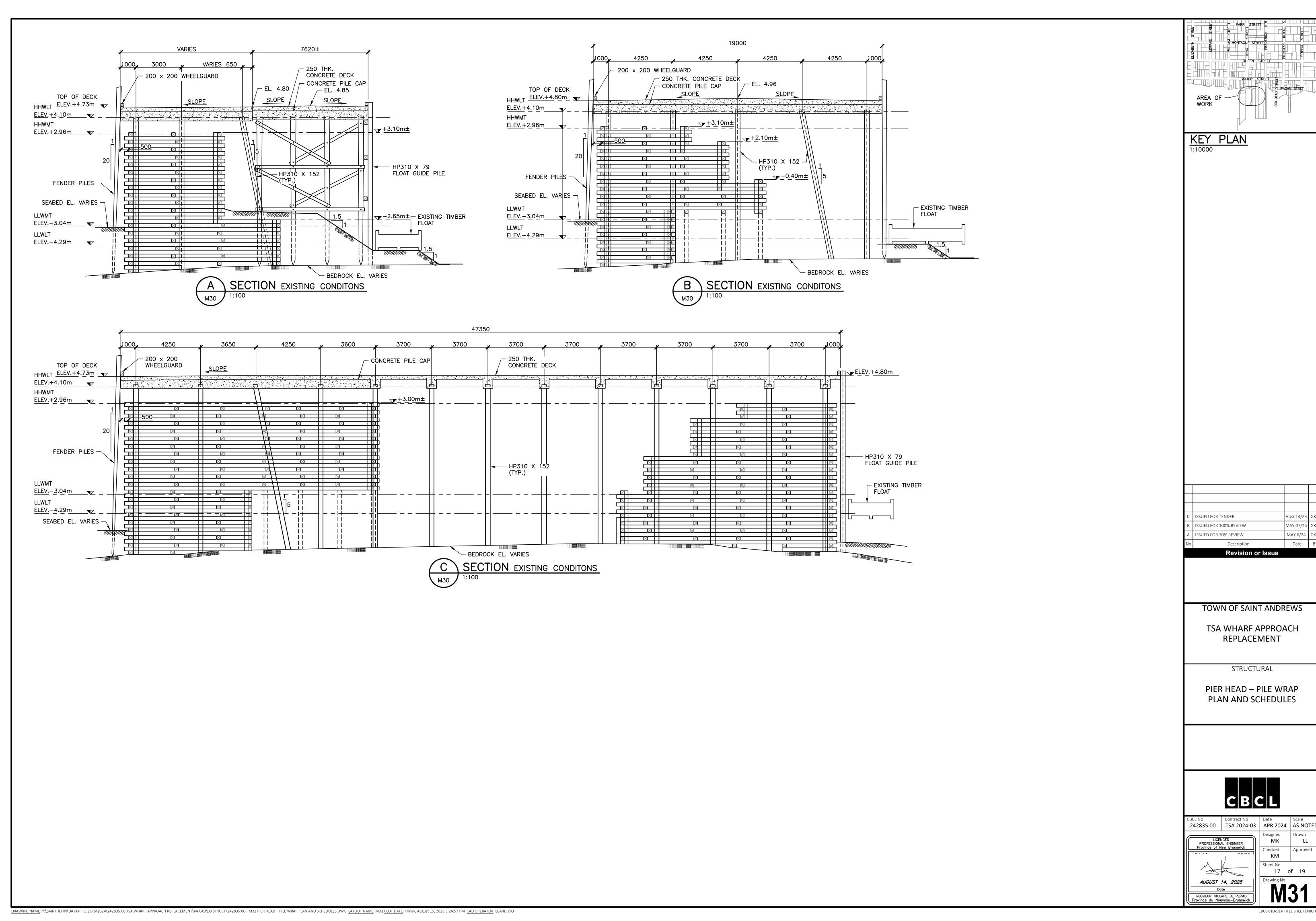
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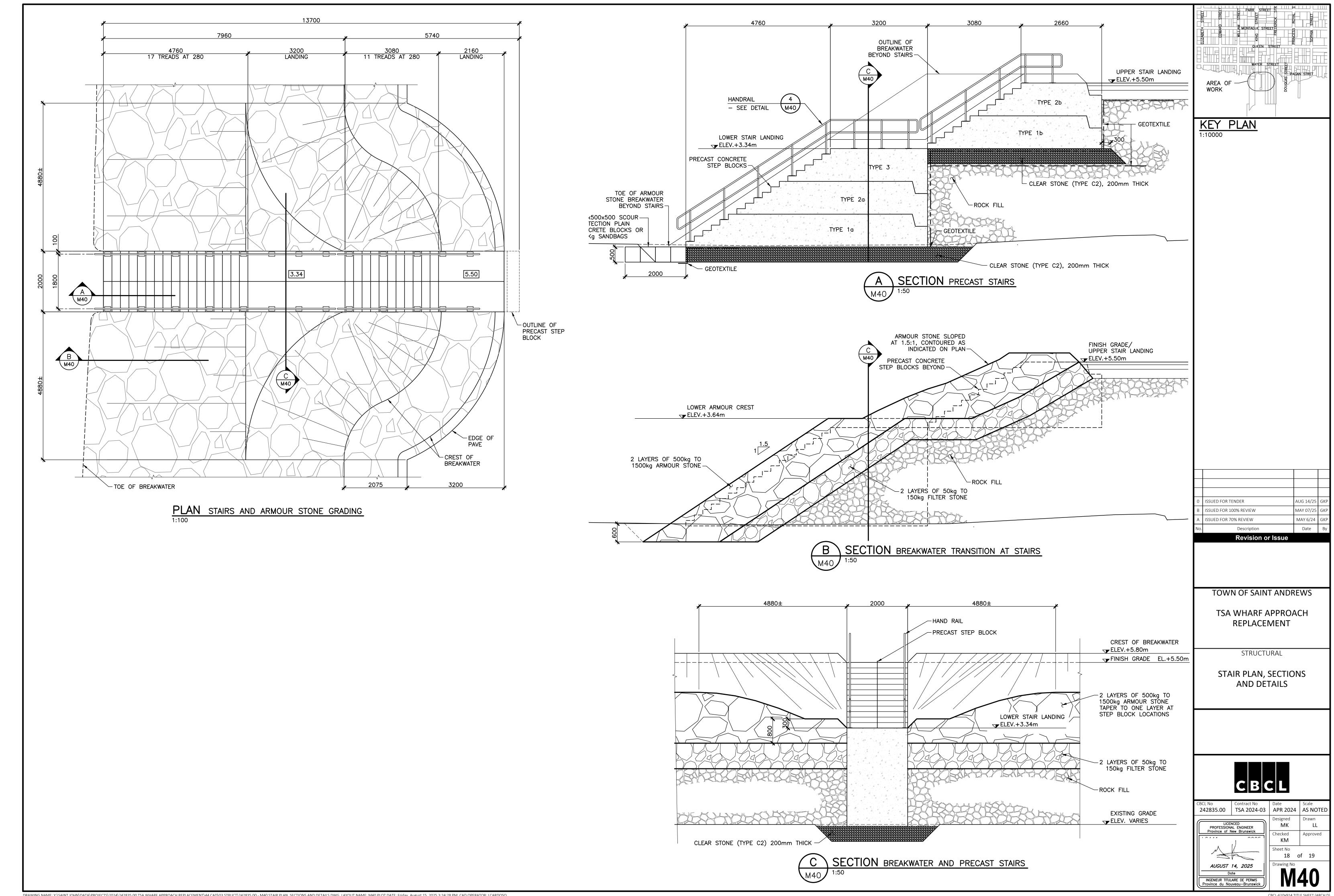
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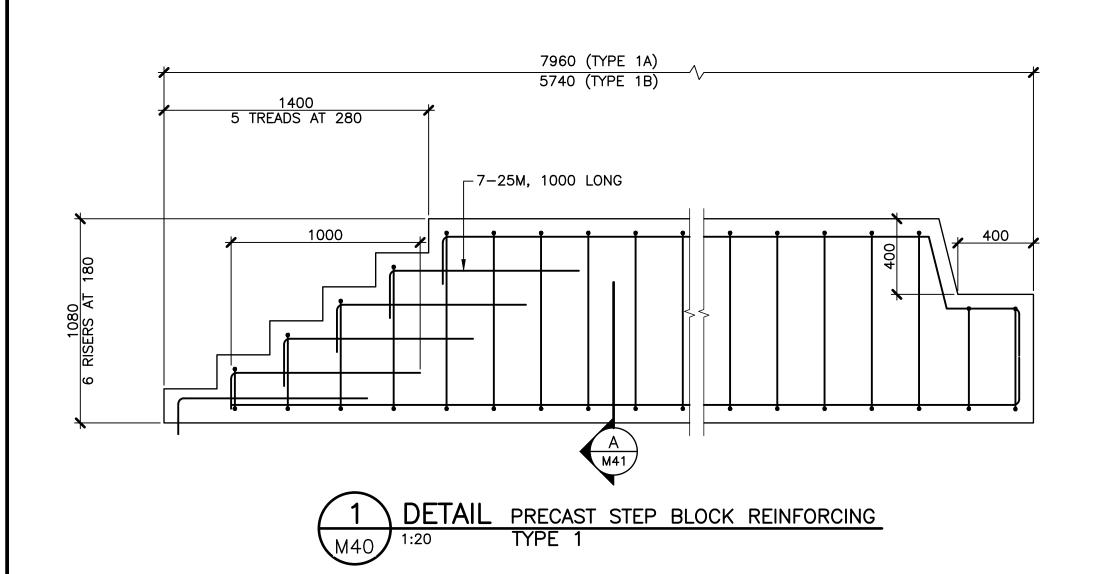
APR 2024 AS NOTE

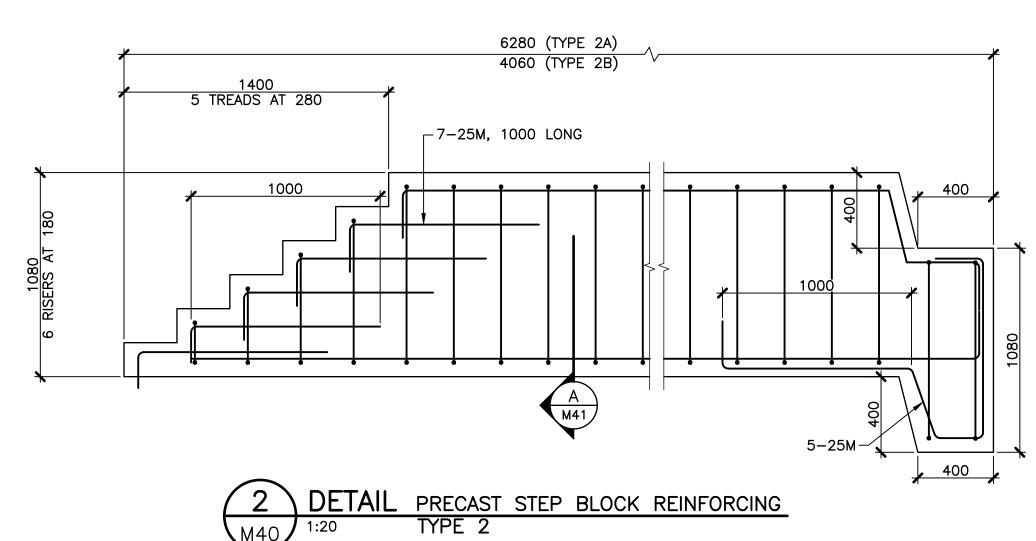


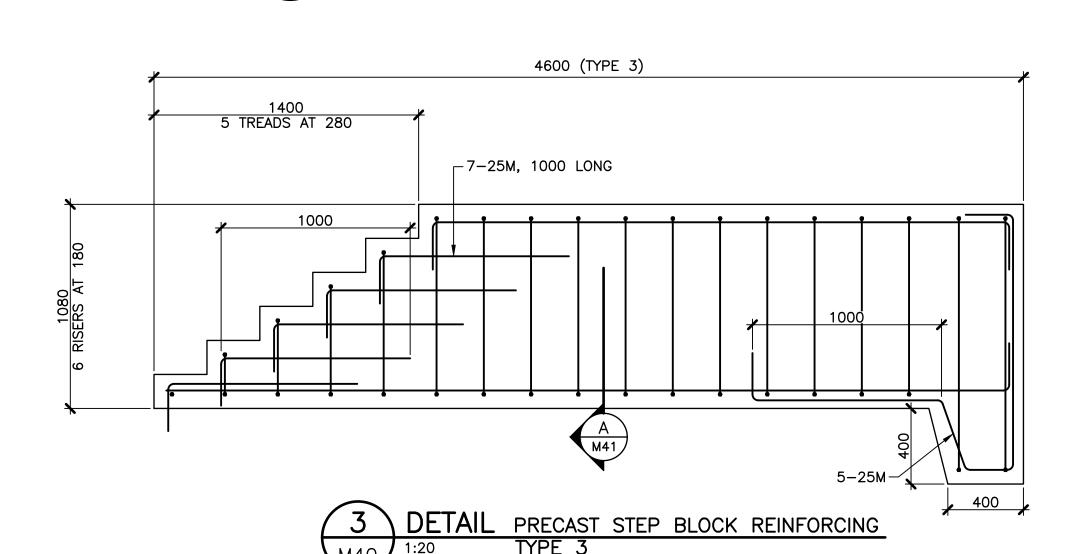
CBCL-610x914 TITLE SHEET (ARCH D)

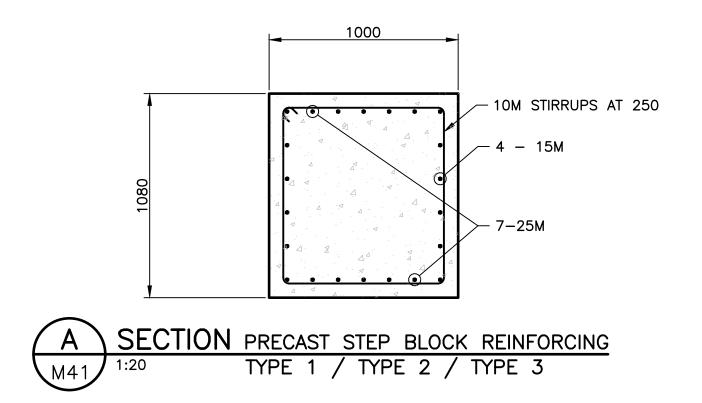
MAY 6/24











PRECAST STEP BLOCK

SCHEDULE

PANEL ID QTY.

TYPE 1A

TYPE 1B

TYPE 2A

TYPE 2B

TYPE 3

EST.

WEIGHT (Kg)

18400

14500

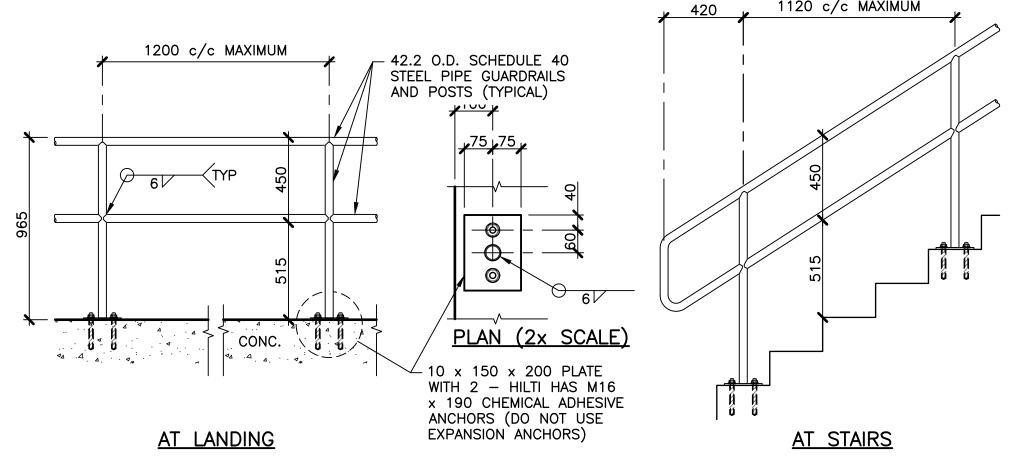
12700

8700

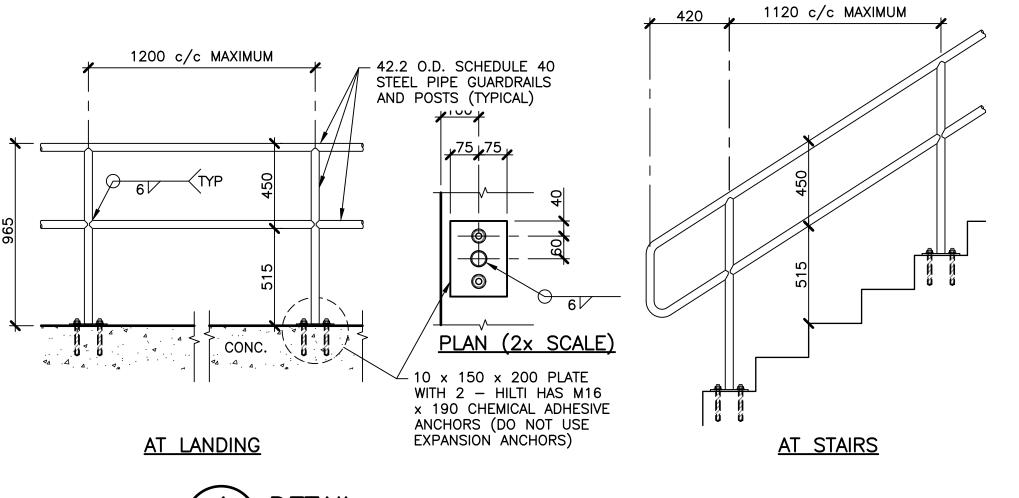
10600

NOTES:

- 1. PANEL LIFTING HARDWARE, PROCEDURES AND ANALYSIS BY CONTRACTOR.
- 2. LIFTING INSERTS AND LOCATION BY CONTRACTOR.



4 DETAIL GUARDRAIL ASSEMBLY



Contract No Date Scale
TSA 2024-03 APR 2024 AS NOTE 242835.00 LICENCED PROFESSIONAL ENGINEER Province of New Brunswick

ISSUED FOR TENDER

ISSUED FOR 100% REVIEW

ISSUED FOR 70% REVIEW

Description

Revision or Issue

TOWN OF SAINT ANDREWS

TSA WHARF APPROACH REPLACEMENT

STRUCTURAL

STAIR DETAILS

MAY 6/24

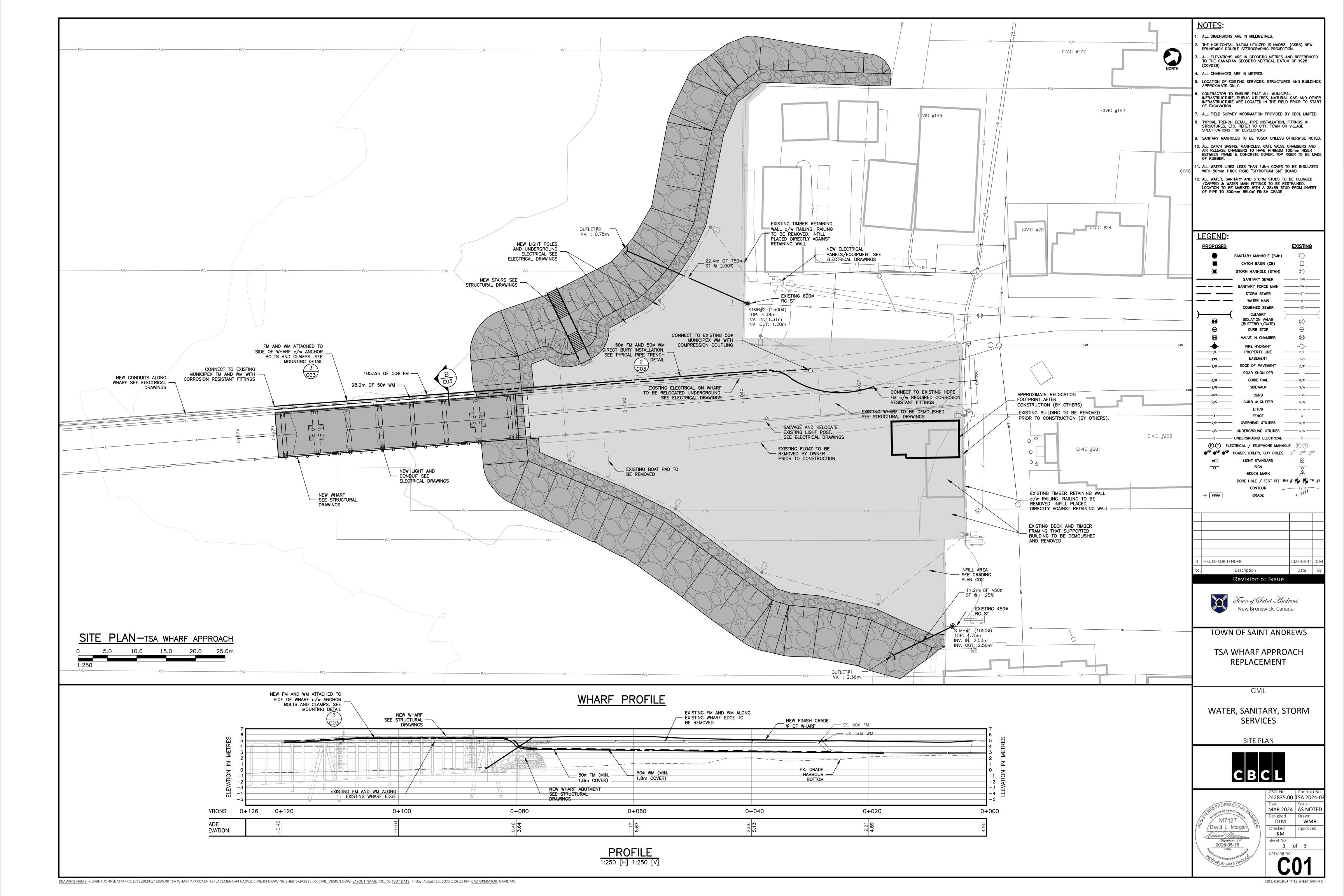
AREA OF — WORK

KEY PLAN 1:10000

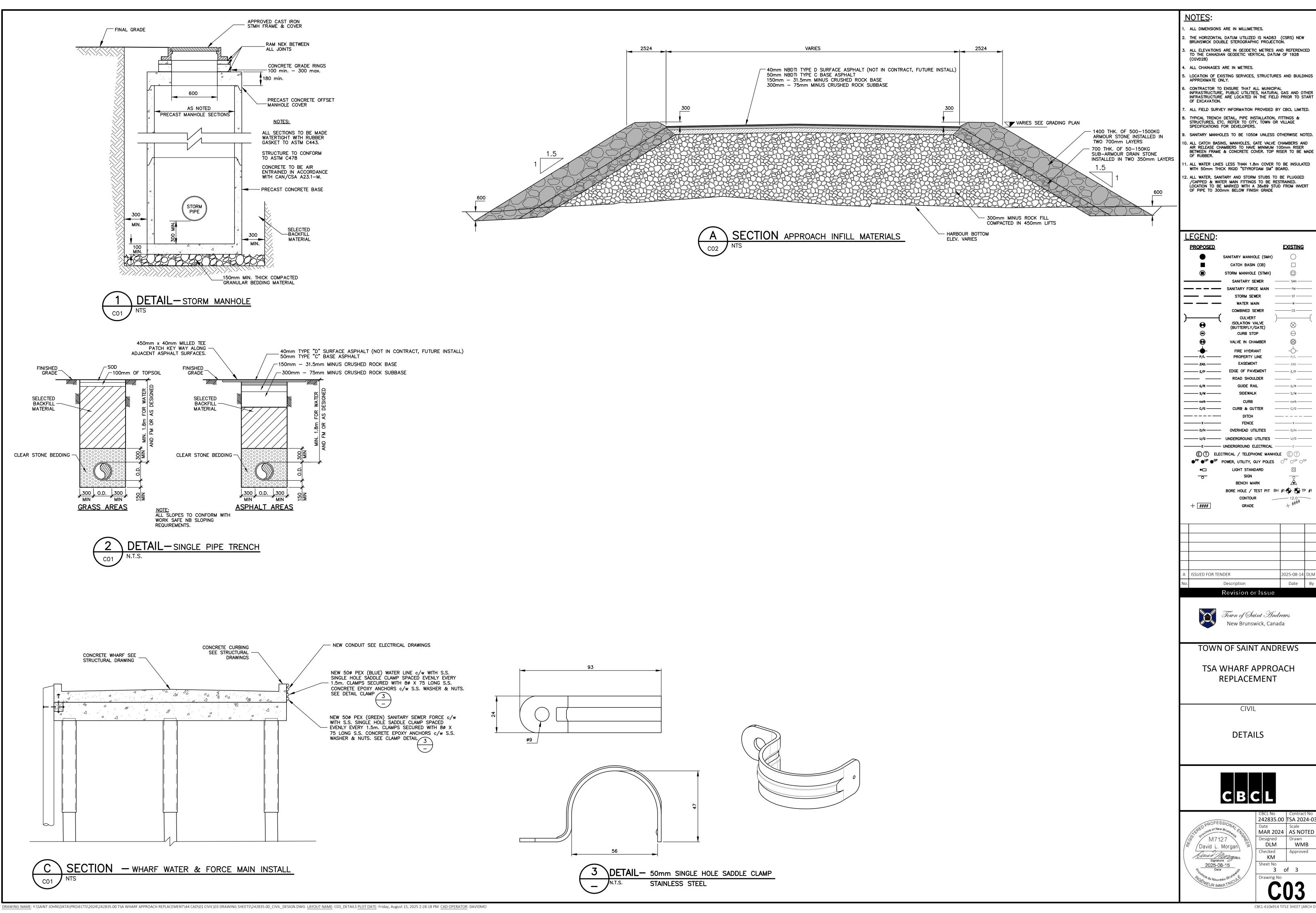
MK Checked KM 19 of 19 Orawing No AUGUST 14, 2025 INCENIEUR TITULAIRE DE PERMIS Province du Nouveau-Brunswick

DRAWING NAME: Y:\SAINT JOHN\DATA\PROJECTS\2024\242835.00 TSA WHARF APPROACH REPLACEMENT\44 CAD\03 STRUCT\242835.00 - M40 STAIR PLAN, SECTIONS AND DETAILS.DWG LAYOUT NAME: M41 PLOT DATE: Friday, August 15, 2025 3:24:28 PM CAD OPERATOR: LCARDOSO

CBCL-610x914 TITLE SHEET (ARCH D)







242835.00 TSA 2024-0

MAR 2024 | AS NOTE

3 of 3

WMB

Designed DLM

Checked KM

Drawing No

EXISTING

_____ E/P ____

——— G/R —— ------ S/W -----

_____ c/g ____

Date

SANITARY MANHOLE (SMH) CATCH BASIN (CB) STORM MANHOLE (STMH)

> WATER MAIN COMBINED SEWER

ISOLATION VALVE (BUTTERFLY/GATE) CURB STOP VALVE IN CHAMBER

FIRE HYDRANT

PROPERTY LINE EASEMENT

CURB & GUTTER

FENCE

LIGHT STANDARD

BENCH MARK

Description

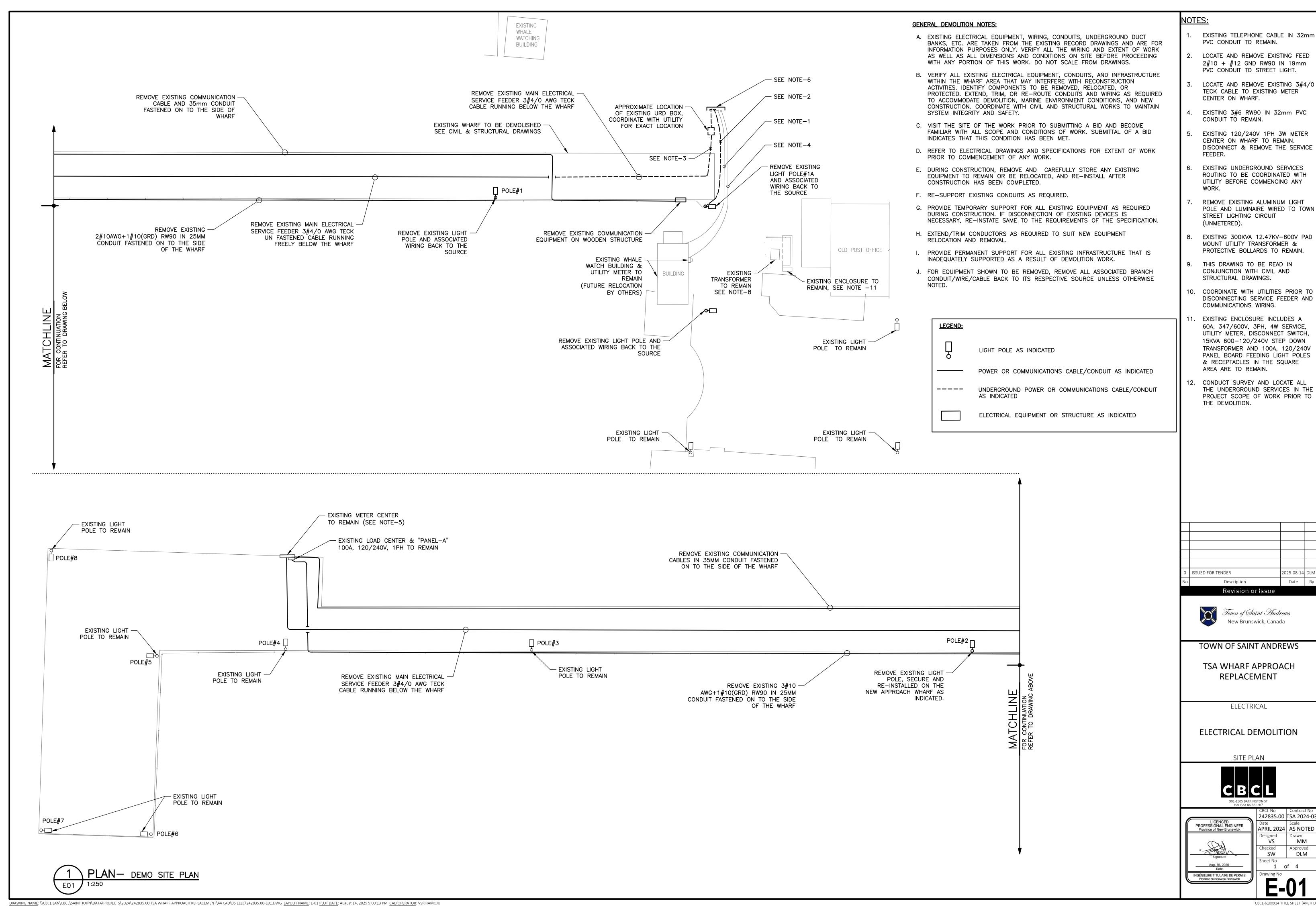
Revision or Issue

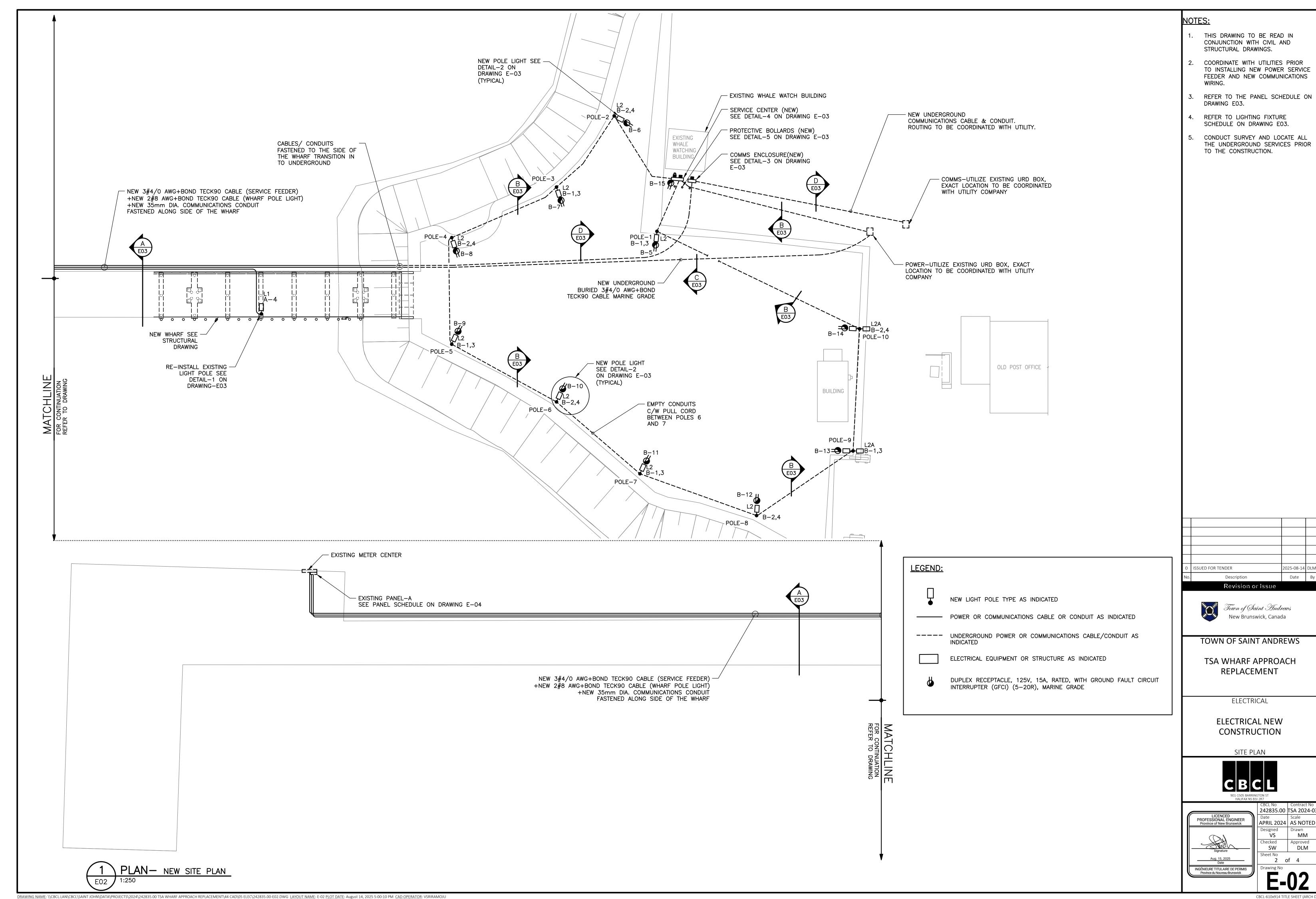
CIVIL

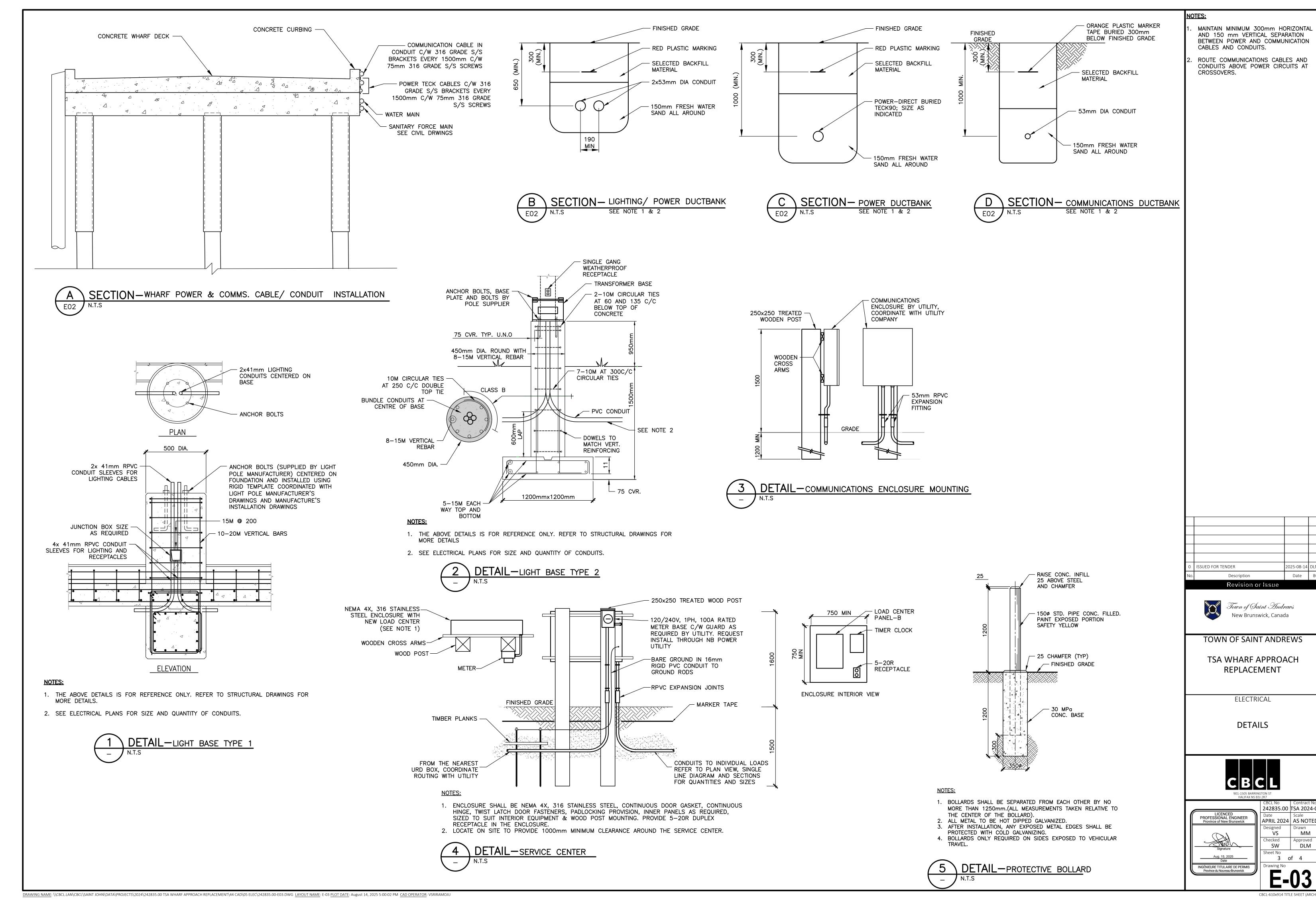
DETAILS

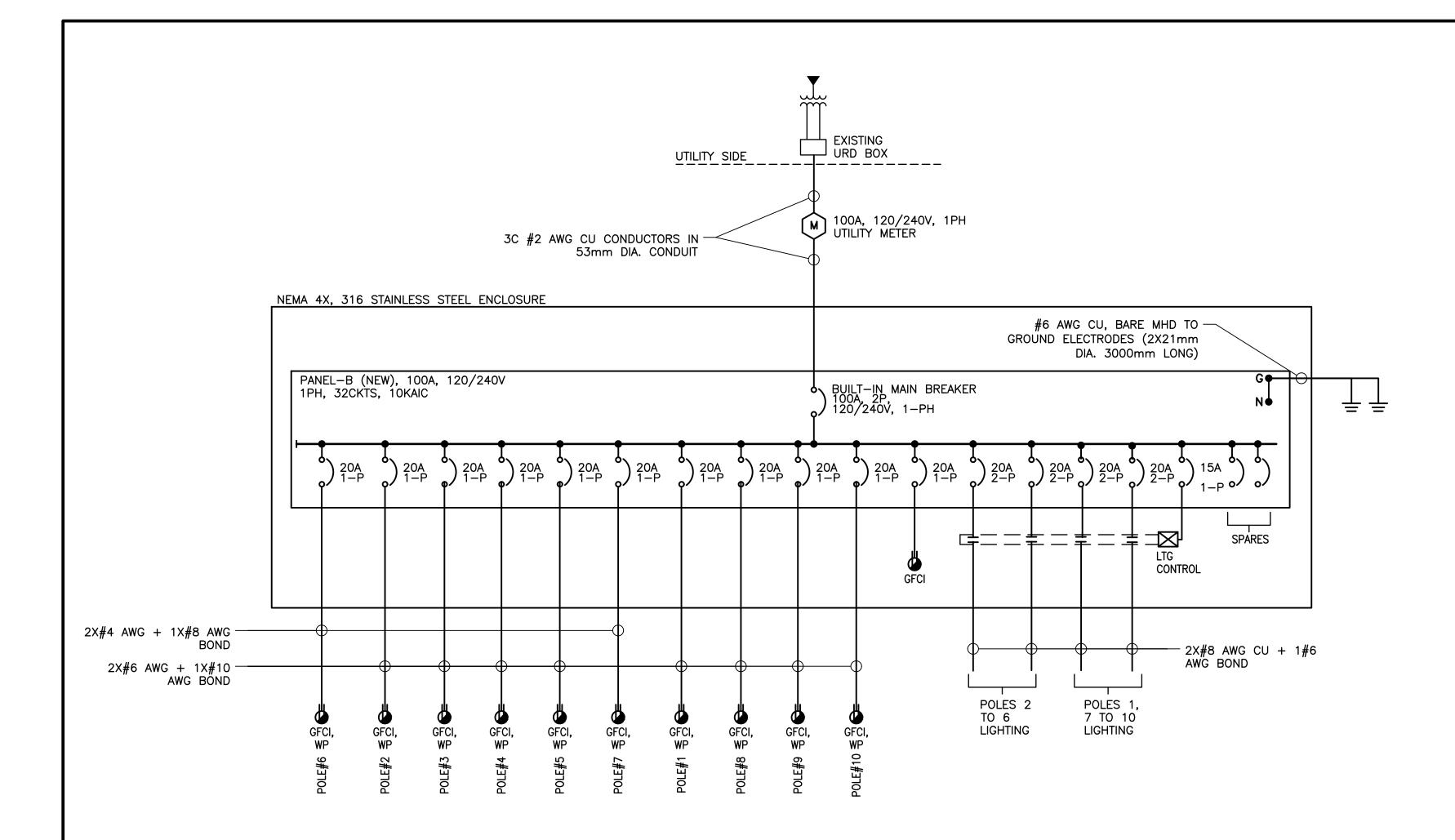
Town of Saint *H*ndrews New Brunswick, Canada

BORE HOLE / TEST PIT BH #1









1 DETAIL—SINGLE LINE DIAGRAM (IN-FILL AREA)

	LIGHTING	FIXT	URE S	CHED	ULE	
TYPE	DESCRIPTION	SOURCE	BALLAST / DRIVER	COLOUR TEMP.	VOLTAGE	STANDARD OF ACCEPTANCE
L2	INFILL AREA DECORATIVE LIGHTING: POLE MOUNTED LED AREA LIGHTING FIXTURE, IP66 RATED AND UL/cUL LISTED FOR WET LOCATIONS. CORROSION RESISTANT HOUSING TO BE 1000 HOUR SALT SPRAY TESTED PER ASTM B117 WITH A MINIMUM SCRIBE RATING OF 5 PER ASTM D1654. SINGLE PIECE DIE CAST ALUMINUM HOUSING WITH INTEGRAL HEAT SINK & 10KV SURGE PROTECTOR, 80 CRI MIN. TYPE IV DISTRIBUTION, SUITABLE FOR OPERATION IN -40°C TO 40°C AMBIENT ENVIRONMENTS. COMES WITH SINGLE ARM, SINGLE TOP BANNER ARM, BASE COVER AND POLE.	10,000 LUMENS	LED DRIVER	4000K	240V	FIXTURE: CYCLONE LIGHTING CY25P1B-DP3AR-T4-P60-40K-240- 10KV-ADP-DIM-GM-TX-MG ARM: MA202-C1-IN52-ADP-PTL-240-GM-TX-MG SINGLE TOP BANNER ARM: BA3_5D_24IN_S-GM-TX-MG BASE COVER: BC57-BK-TX-MG
L2A	SAME AS TYPE L2 BUT TWO FIXTURES MOUNTED ON SINGLE POLE WITH TWIN ARM UNITS IN 180 DEGREES.	10,000 LUMENS	LED DRIVER	4000K	240V	FIXTURES: CYCLONE LIGHTING CY25P1B-DP3AR-T4-P60-40K-240-10KV-ADP -DIM-GM-TX-MG (QTY. 2) ARM: MA202-C2-IN52-ADP-PTL-240-GM-TX-MG TWIN TOP BANNER ARMS: BA3_5D_24IN_TW-GM-TX-MG BASE COVER: BC57-BK-TX-MG
POLE	ROUND 130MM DIA, 4500MM LONG, ALUMINUM SHAFT, WE CAST ALUMINUM REINFORCED ANCHOR PLATE. HAND HOLE AND COPPER GROUND LUG. 5—20R GFCI MARINE GRADE DEGREES TO THE HAND HOLE COVER. PROVIDE 250mm F	50X130MM RECEPTACLE	WITH WEATHER INSTALLED ON	RPROOF CO I THE BAS	OVER E 90	POLE: CYCLONE LIGHTING PAL52-18-INS-CSA-GM-TX-MG CP6200

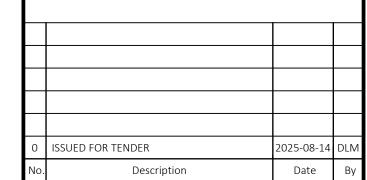
Ī																												
																	-			BE TURNE								
									UIT E	LECTR	ONIC	CONTRO	OL, :	240 \	√AC,	60HZ,	2-SI	PST/D	PST,	WITH MET	AL EI	NCLOSUF	RE, S	STAND	ARD	OF A	CCEPT	ANCE:
	INTERM	AHC EI	12125	COR	APPROVED	EQUI	VALENI	•																				

	Power: 120/240V,	1ø, 3-WIRE		ANE			•	- ^	SYM. IC.: 10kAIC	
	# OF CCTS: 32		L	OC: II	N-F	ILL	. ARE	A	Mains: 100A MAIN BKR.: 100A,2P	ြ
ırks	INCOMING: SER'	VICE ENTRANCE								Remarks
Remarks	De	signation	ССТ		PH/	_	ł	ССТ	Designation	l en
<u>Ľ</u>			#	BKR	а	b	BKR			12
	 INFILL AREA LIG	HTING	1	20A	•		20A	2	 INFILL AREA LIGHTING	
	IIVI IEE / IIVE/ CIO		3	2P		•	2P	4	IN ILL MILL LIGHTING	<u> </u>
	RECEPTACLE A	Γ POLE-1	5	20A	•		20A	6	RECEPTACLE AT POLE-2	
	RECEPTACLE A	Γ POLE-3	7	20A		•	20A	8	RECEPTACLE AT POLE-4	
	RECEPTACLE A	ΓPOLE-5	9	20A	•		20A	10	RECEPTACLE AT POLE-6	
	RECEPTACLE A	ΓPOLE-7	11	20A		•	20A	12	RECEPTACLE AT POLE-8	
	RECEPTACLE A	ΓPOLE-9	13	20A	•		20A	14	RECEPTACLE AT POLE-10	
	RECEPTACLE IN	15	20A		•	15A	16	LIGHTING CONTROL		
	SPARE		17	20A	•		20A	18	SPARE	
	JOPARE		19	2P		•	15A	20	SPARE	
	SPACE		21		•			22	SPACE	
	SPACE		23			•		24	SPACE	
	SPACE		25		•			26	SPACE	
	SPACE		27			•		28	SPACE	
	SPACE		29		•			30	SPACE	
	SPACE		31			•		32	SPACE	
	Remarks: 1	PROVIDE A TYPED W LOADING FOR ALL N			ED	UL	E INC	ICAT	ING ACCURATE CIRCUIT	

	Power: 120)/240V, 1	ø, 3-WIRE	PAN	NEL '	Δ'	(E	XISTI	NG)	SYM. IC.: 10kAIC		
	# OF CCT		LOC: PIER HEAD Mains: 100/									
rks	INCOMING							MAIN BKR.: 100A,2P	emarks			
Remarks		Desi	gnation	CCT #	BKR	_	ASE b	BKR	CCT #	Designation		
	RECEPTA	CLE AT	SERVICE	1	20A	•		15A	2	APPROACH LIGHT POLE #1	4	
	RECEPTA	3	15A		•	15A	4	APPROACH LIGHT POLE #2	1			
	RECEPTA	5	15A	•		15A	6	APPROACH LIGHT POLE #3				
	RECEPTA	CLE IN N	MODULE #1	7	15A		•	15A	8	PIER HEAD LIGHT POLE #4		
	RECEPTA	CLE IN N	MODULE #1	9	15A	•		15A	10	PIER HEAD LIGHT POLE #5		
	RECEPTA	CLE AT I	POLE #5	11	15A		•	15A	12	PIER HEAD LIGHT POLE #6		
	RECEPTA	CLE AT I	POLE #5	13	15A	•		15A	14	PIER HEAD LIGHT POLE #7		
	RECEPTA	RECEPTACLE AT POLE #6					•	15A	16	PIER HEAD LIGHT POLE #8		
	RECEPTA	CLE AT I	POLE #6	17	15A	•		20A	18	DUMP OUT OVOTEM		
	RECEPTA	CLE AT I	POLE #7	19	15A		•	20A	20	PUMP OUT SYSTEM		
	RECEPTA	CLE AT I	POLE #7	21	15A	•		20A	22	TALL CLUD		
	UNKNOW	N LOAD		23	23 15A • 20A TALL SHIP							
	Remarks:	1	UTILIZE EXISTING	BREAKER	TO R	E-(CO	NNEC	Т			
		2	EXISTING PANEL	MODEL: SI	EMEN	IS I	EQ	LOAD	CEN	ITER***		
		3	PROVIDE A TYPE	D WRITTEN	SCH	ED	UL	E.				
		4	LABEL AS SPARE	BREAKER								

NOTES:

ONLY ONE BOND CONDUCTOR IS REQUIRED WHERE MULTIPLE CIRCUITS RUN IN THE SAME CONDUIT. INSTALL LARGEST BOND CONDUCTOR SPECIFIED FOR THE CIRCUITS.





TOWN OF SAINT ANDREWS

TSA WHARF APPROACH REPLACEMENT

ELECTRICAL

SINGLE LINE DIAGRAM AND SCHEDULES



