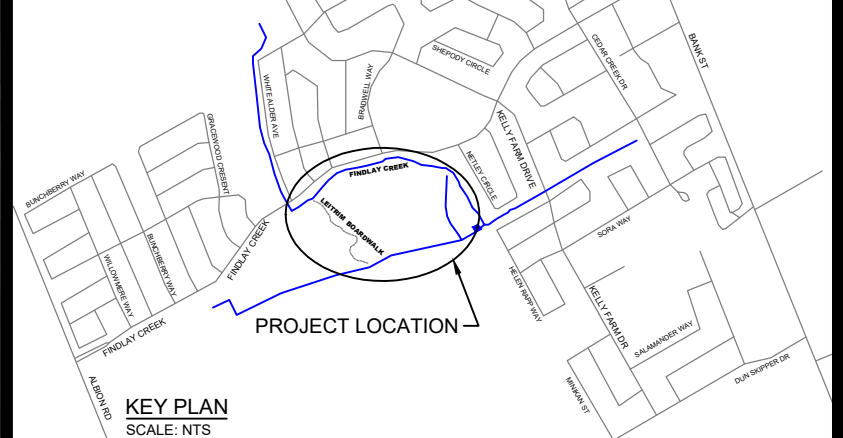




THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

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KEY PLAN SCALE: NTS

No.	DATE	BY	REVISION COMMENTS
1	2022-10-11	SA	50% SUBMISSION
2	2022-11-11	SA	90% SUBMISSION
3	2023-03-31	SA	100% SUBMISSION
4	2023-05-11	SA	ISSUED FOR CONSTRUCTION
5	2023-05-24	SA	RE-ISSUED FOR CONSTRUCTION

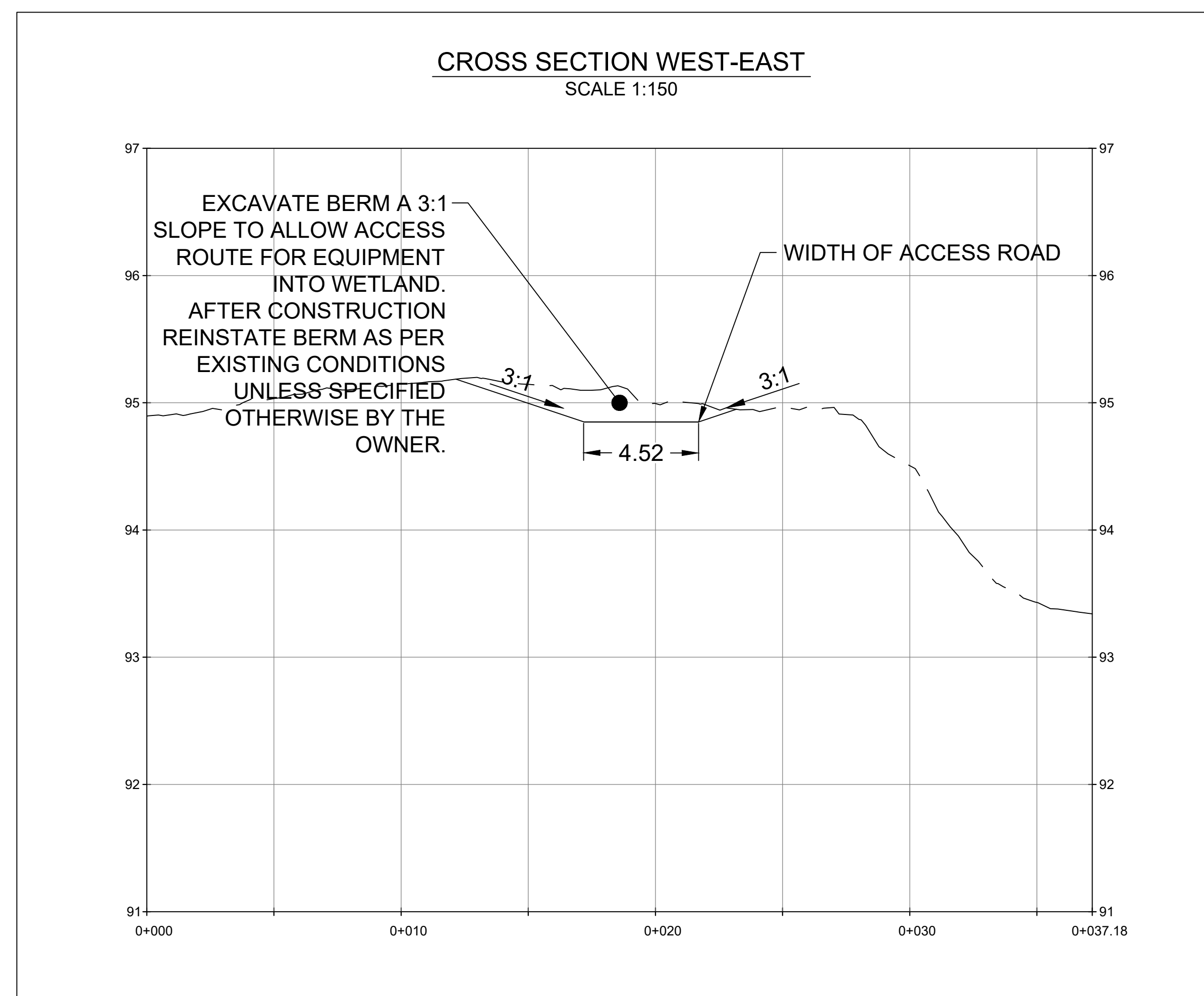
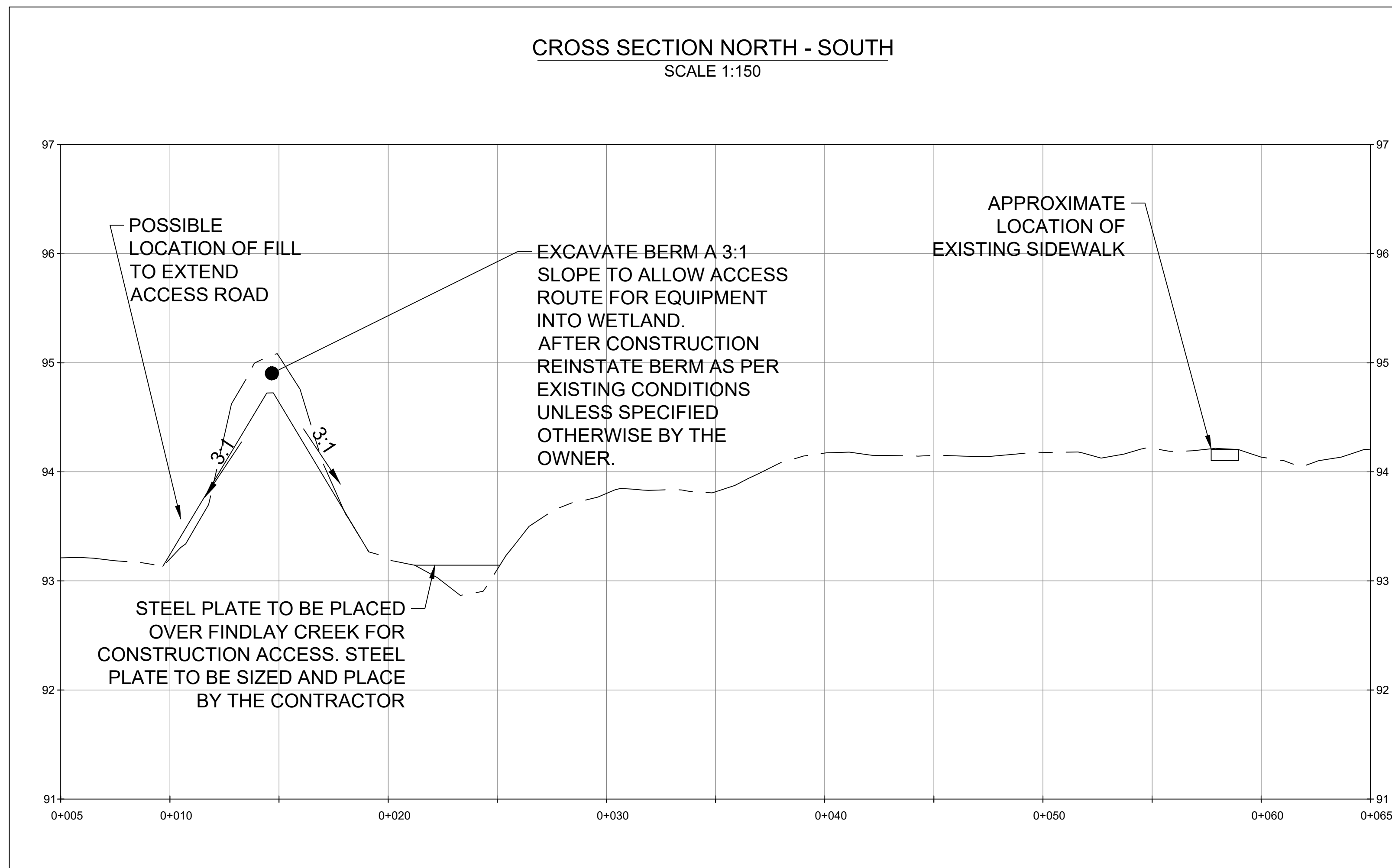
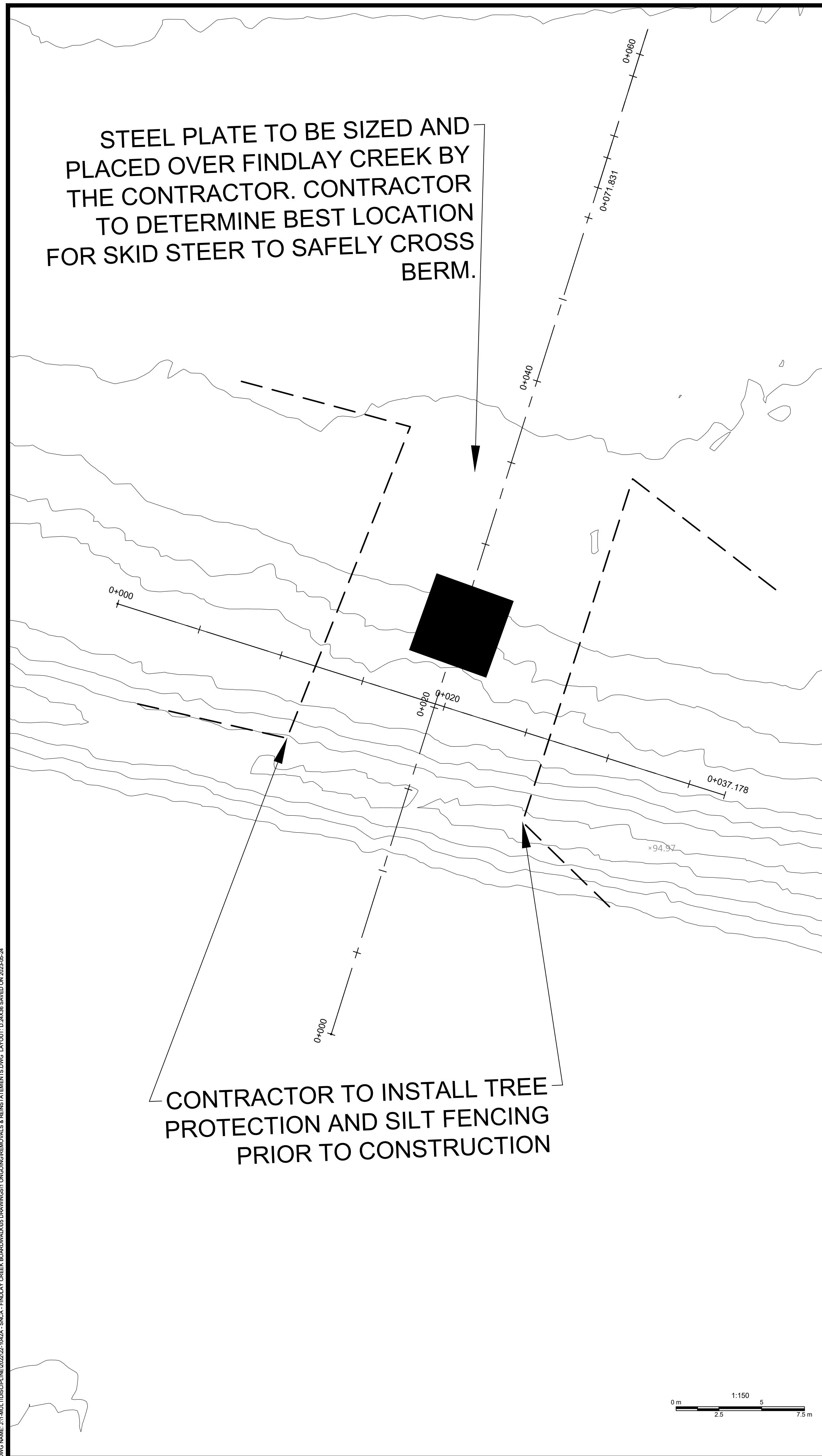
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FINDLAY CREEK BOARDWALK EXTENSION OTTAWA, ONTARIO ALIGNMENT

Jp2g Consultants Inc.
ENGINEERS • PLANNERS • PROJECT MANAGERS
12 INTERNATIONAL DRIVE, PEMBROKE, ON
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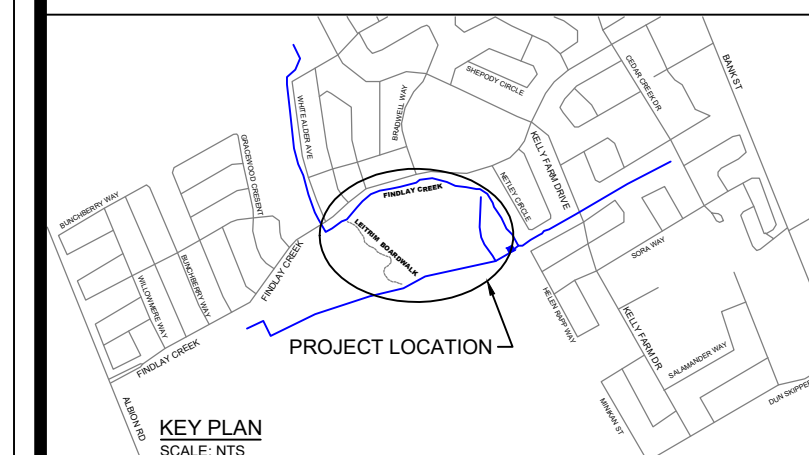
CLIENT No.: 22-1042A	SCALE: 1:750
DESIGNED: MW	
DRAFTED: MW	
CHECKED: SA	
APPROVED: SA	



**SOUTH NATION
CONSERVATION
DE LA NATION SUD**

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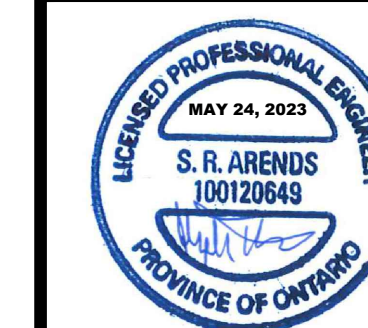
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KEYPLAN (NTS)

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No. YYYY-MM-DD BY REVISION COMMENTS



**FINDLAY CREEK
BOARDWALK
EXTENSION
OTTAWA, ONTARIO
REMOVALS AND
REINSTATEMENTS**

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Jp2g Project No.: 22-1042A 16 EDWARDS STREET SOUTH, UNIT 538, ARNPRIOR, ON

CLIENT No.: 22-1042A	SCALE:
DESIGNED: MW	
DRAFTED: MW	
CHECKED: SA	
APPROVED: SA	

REM.1

REMOVALS & REINSTATEMENTS.DWG

DWG NAME: J:\MULTIPROJECT\2022\02-5624-ENCL-ENCL-FINDLAY CREEK BOARDWALK EXTENSION\REINSTATEMENTS.DWG, LAYOUT: 03-24-2023 09:24

GENERAL STRUCTURAL NOTES

- STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2012 ONTARIO BUILDING CODE (OBC) SUPPLEMENTED BY THE 2010 NATIONAL BUILDING CODE OF CANADA STRUCTURAL COMMENTARY.
- REFER TO CIVIL DRAWINGS FOR LAYOUT OF BOARDWALK AND LOCATION OF WORK.
- THIS IS A METRIC PROJECT. UNLESS OTHERWISE NOTED, ALL LENGTHS ARE IN MILLIMETERS.
- REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS. REPORT DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
- VERIFY EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO CONSTRUCTION.
- THE REVISION COLUMN INDICATES THE INTENDED USE OF THESE DRAWINGS. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED 'ISSUED FOR CONSTRUCTION'.
- DO NOT USE INFORMATION ON THESE DRAWINGS FOR ANY OTHER PROJECTS.
- DO NOT SCALE THESE DRAWINGS.
- FOLLOW TYPICAL DETAILS SHOWN ON DRAWINGS. UNLESS OTHERWISE NOTED. TYPICAL DETAILS SHOW STRUCTURAL INTENT RATHER THAN ACTUAL PROJECT CONDITIONS. (NOTE THAT TYPICAL DETAILS ARE NOT ALWAYS REFERENCED ON PLAN.)
- SECTIONS, DETAILS, AND STATEMENTS NOTED AS 'TYPICAL' SHALL CONVEY THAT CONDITIONS ARE LIKE OR SIMILAR IN THE STRUCTURE.
- THESE DRAWINGS SHOW THE COMPLETED STRUCTURE ONLY. TEMPORARY WORKS FOR WHICH THE CONTRACTOR IS RESPONSIBLE AND WHICH MAY BE REQUIRED FOR EXECUTION OF THE PROJECT ARE NOT SHOWN. CONSTRUCTION LOADS ON THE PERMANENT STRUCTURE SHALL NOT EXCEED DESIGN LOADS INDICATED ON DRAWINGS.
- ALL TEMPORARY WORKS SHALL BE DESIGNED AND REVIEWED BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR. LICENSED IN ONTARIO.
- PROVIDE REASONABLE NOTICE (NOT LESS THAN 24 HOURS) PRIOR TO CONCEALING ANY WORK THAT REQUIRES INSPECTION, REVIEW, OR TESTING. SCHEDULE THIS WORK TO OCCUR DURING NORMAL BUSINESS HOURS.
- PERIODIC FIELD REVIEW OF A REPRESENTATIVE SAMPLE OF THE STRUCTURAL WORK DESIGNED BY JP2G WILL BE UNDERTAKEN TO AS CERTAIN GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THESE REVIEWS DO NOT REPLACE THE CONTRACTORS RESPONSIBILITY FOR QUALITY CONTROL AND QUALITY ASSURANCE.
- TEMPORARY SHORING REQUIRED IS NOT SHOWN ON STRUCTURAL DRAWINGS. IF REQUIRED, CONTRACTOR AND THEIR ENGINEER SHALL DETERMINE THE TEMPORARY SHORING REQUIREMENTS.

SHOP DRAWINGS

- SUBMIT FOR REVIEW ALL SHOP DRAWINGS REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS. SHOP DRAWINGS FOR REVIEW SHALL INCLUDE BUT NOT BE LIMITED TO:
 - HELICAL PILES (DESIGN, LAYOUT, HARDWARE)
 - STRUCTURAL STEEL
 - WOOD CONNECTORS FROM MANUFACTURER OTHER THAN SIMPSON STRONGTIE WOOD PRESERVATIVE/ SEALANT
- REVIEW OF SHOP DRAWINGS IS ON A SAMPLING BASIS, FOR GENERAL CONFORMITY WITH STRUCTURAL CONTRACT DOCUMENTS. IT IS NOT A DETAILED CHECK AND MUST NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR OF RESPONSIBILITY FOR MAKING THE WORK ACCURATE AND IN CONFORMITY WITH THE CONTRACT DOCUMENTS.
- REVIEW OF SHOP DRAWINGS DOES NOT IMPLY ANY CHANGE IN ANY OTHER CONSULTANTS' OR PROFESSIONALS' RESPONSIBILITIES RELATED TO DESIGN OF SPECIFIC ITEMS AS OUTLINED BY THE SPECIFICATIONS.
- REVIEW OF A SPECIFIC COMPONENT ON NON-STRUCTURAL SHOP DRAWINGS (COMPONENTS ENGINEERED BY OTHERS) DOES NOT INCLUDE REVIEW OF THE ASSEMBLY OF WHICH THE ITEM MAY BE A COMPONENT.
- IF REQUIRED, CAD FILES OF THE FULL SET OF STRUCTURAL DRAWINGS ARE AVAILABLE 'AS-IS' FOR USE IN THE PREPARATION OF SHOP DRAWINGS, PROVIDED THAT THE OWNER AND THE OWNERS CONSULTANTS ARE NOT HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS ON THE DRAWINGS. THESE CAD DRAWINGS ARE NOT TO BE SCALED. TO RECEIVE THE CAD FILES, THE CONTRACTOR MUST BE WILLING TO SIGN A DRAWING RELEASE WAIVER.
- ALLOW A MINIMUM OF 3 WORKING DAYS FOR REVIEW OF EACH SUBMISSION OF SHOP DRAWINGS. ALLOW MORE TIME WHEN LARGE QUANTITIES OF SHOP DRAWINGS ARE SUBMITTED. SUBMIT IN GENERAL CONFORMITY WITH THE SEQUENCE OF CONSTRUCTION INTENDED.
- MAKE CORRECTIONS REQUIRED BY PREVIOUS REVIEW BEFORE RESUBMITTING DRAWINGS. CLEARLY INDICATE ALL CHANGES AND ADDITIONS TO PREVIOUS SUBMISSION. DO NOT ADD NEW DETAILS TO DRAWINGS WHICH HAVE BEEN STAMPED AS REVIEWED OR NOTED.
- AFTER REVIEW, THE DRAWINGS WILL BE STAMPED AND RETURNED TO SHOW ONE OF THE FOLLOWING:

NOT REVIEWED	SHOWS WORK WHICH IS NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING SERVICES. CONTRACTOR APPEARS TO HAVE INTERPRETED THE CONTRACT DOCUMENTS CORRECTLY AND THE CONSULTANT HAS NO SPECIFIC COMMENT OR NOTES.
REVIEWED	THE CONTRACTOR SHALL ADDRESS THE NOTES FROM THE CONSULTANT PRIOR TO CONSTRUCTION. SUBMIT FINAL RECORD PRINT.
REVISE & RESUBMIT	ADDRESS COMMENTS AND RESUBMIT FOR REVIEW PRIOR TO FABRICATION.
- SUBMIT ENGINEER SEALED SHOP DRAWINGS WHEN REQUIRED BY SPECIFICATIONS. SHOP DRAWINGS NOT STAMPED, SIGNED, AND DATED WILL BE MARKED 'RESUBMIT' AND RETURNED WITHOUT BEING REVIEWED.
- DO NOT COMMENCE FABRICATION UNTIL RETURNED SHOP DRAWINGS HAVE BEEN EXAMINED.
- PROVIDE FINAL RECORD DRAWINGS AFTER ALL CORRECTIONS ARE MADE.

STRUCTURAL STEEL

- CONFORM TO CSA S16.
- ALL STRUCTURAL STEEL AS NOTED ON DRAWINGS TO BE GALVANIZED AS PER CSA G-164-M92: 610g/m²**
- MATERIALS: TO CSA G40.21 UNLESS OTHERWISE NOTED, WITH THE FOLLOWING GRADES:

WIDE FLANGE SECTIONS (W, WWF, S SHAPES):	350W
CHANNELS, ANGLES (C AND L SHAPES):	300W
FLAT BARS (C AND L SHAPES):	300W
BOLTS:	ASTM F3125M, GRADE Fy=120ksi/830MPa
- STRUCTURAL DRAWINGS SHOW DESIGN INTENT. REFER TO SPECIFICATIONS FOR CONNECTION DESIGN, DETAILING, FABRICATION, AND ERECTION REQUIREMENTS.
- DO NOT MODIFY STRUCTURAL MEMBERS ON SITE.
- WHERE GALVANIZED SURFACES HAVE BEEN DAMAGED OR FIELD WELDED, CLEAN SURFACES DOWN TO BARE METAL AND APPLY TWO COATS OF ZINC-RICH TOUCH-UP PAINT.
- PROVIDE ERECTION BRACING REQUIRED TO KEEP THE STRUCTURE STABLE DURING CONSTRUCTION.
- DISTRIBUTE HANGER LOADS FROM MECHANICAL AND HEAVY ELECTRICAL SERVICES SUSPENDED FROM STEELWORK SUCH THAT THEY DO NOT CAUSE TWISTING OF STEEL MEMBERS OR EXCESSIVE BENDING OF MEMBER FLANGES.
- FOR ALL SUSPENDED LOADS, INCLUDING SEISMIC RESTRAINTS FOR NON-STRUCTURAL ELEMENTS, APPLY LOADS IN THE PLANE OF PRIMARY STRUCTURAL ELEMENTS, AND DO NOT EXCEED 1.3KN.
- SHOP-APPLIED PRIMER TO BE APPLIED ON ALL STEEL STRUCTURAL MEMBERS. APPLICATION TO BE COMPLIANT WITH THE (GISC/CMPA) STANDARD 1-73A. PREPARATION AND APPLICATION IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER (WITH RETOUCHING ON SITE).
- UNLESS OTHERWISE INDICATED ON DRAWINGS, ALL WORKSHOP ASSEMBLIES ARE WELDED AND THOSE PERFORMED ON SITE ARE BOLTED.
- UNLESS OTHERWISE NOTED, DESIGN BEAM CONNECTIONS FOR 100% OF SHEAR FORCE CORRESPONDING TO THE BENDING CAPACITY OF THE BEAM WHILE LATERALLY SUPPORTED AND UNDER A UNIFORMLY DISTRIBUTED LOAD.

WOOD FRAMING

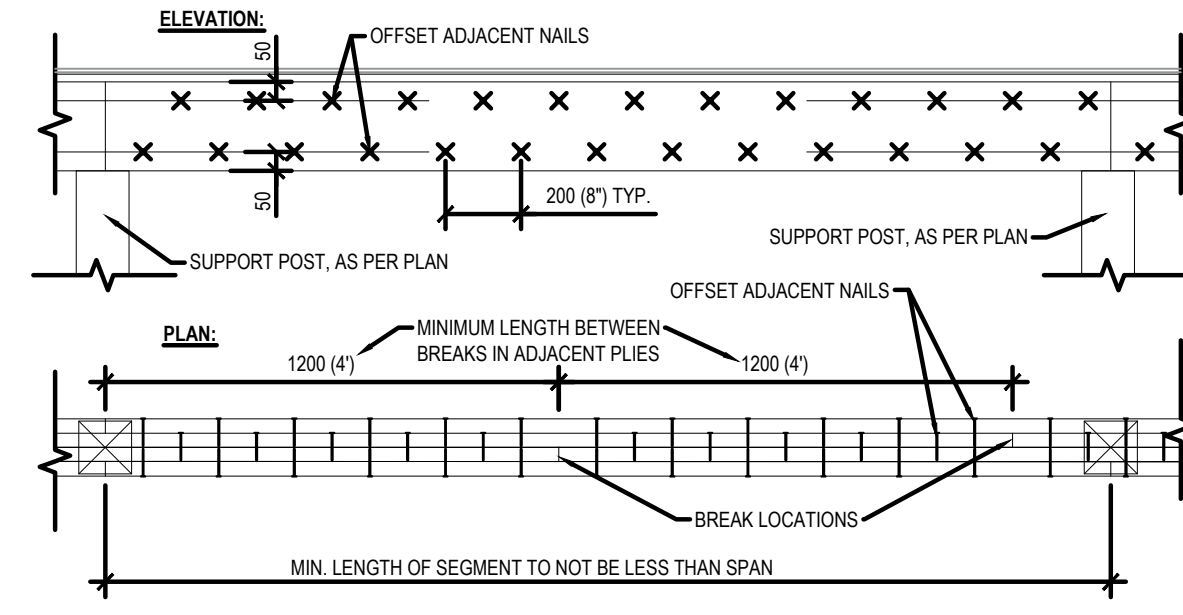
- UNLESS NOTED OTHERWISE, ALL WOOD FRAMING DETAILS TO BE IN ACCORDANCE WITH PART 4 OF OBC 2012.
- WOOD STRUCTURE TO BE ASSEMBLED IN DRY CONDITIONS.
- USE ONLY SEASONED LUMBER (MOISTURE CONTENT <math>< 15\%</math> ON ASSEMBLY)
- DIMENSIONAL LUMBER: USE ONLY **NO. 2+ GRADE (OR BETTER), SPF (SPICE-PINE-FIR)**, UNLESS INDICATED OTHERWISE
- WOOD CONNECTORS: ALL CONNECTORS SHOWN ARE BY SIMPSON STRONG TIE. PROVIDE CONNECTORS AS SHOWN, OR THOSE OF EQUIVALENT CAPACITY. FASTEN ALL CONNECTORS AS DIRECTED BY MANUFACTURER.
- WOOD SCREW AND LAG SCREWS: CSA B34. MACHINE THREADED (NOT CAST-THREADED). **PREDRILL** PRIOR TO SCREW INSTALLATION.
- NAILS: CSA G40.21, ALL NAILS TO BE COMMON WIRE NAILS AND FOLLOW COMMON NAIL LENGTHS AND SHANK DIAMETERS. SUBSTITUTION OF COMMON NAILS WITH POWER DRIVEN NAILS OF THE SAME LENGTH AND DIAMETER IS ACCEPTABLE. SUBSTITUTION OF POWER DRIVEN NAILS OF SMALLER DIAMETER MUST BE APPROVED IN WRITING BY ENGINEER PRIOR TO USE. POWER DRIVEN NAILS NOT TO BE COVER-DRIVEN. ALL NAILS STAINLESS OR GALVANIZED.
- IF GALVANIZED CONNECTORS ARE USED, HOT DIP GALVANIZING: ASTM A123/A123M, MINIMUM ZINC COATING OF 610 g/m². UNLESS NOTED OTHERWISE, ALL STEEL CONNECTORS TO BE STAINLESS OR GALVANIZED.
- PROTECT ALL WOOD PRODUCTS FROM THE ELEMENTS AS REQUIRED TO MAINTAIN THEIR INTEGRITY
- PROVIDE ALL ERECTION BRACING REQUIRED TO KEEP THE STRUCTURE STABLE AND IN ALIGNMENT DURING CONSTRUCTION.
- MEMBER SIZES INDICATED ON DRAWINGS ARE A MINIMUM AND MAY BE INCREASED AS REQUIRED TO MEET DESIGN WITHOUT DETERRING FROM ORIGINAL DESIGN INTENT.
- NOTCHING AND DRILLING OF FRAMING MEMBERS THAT DO NOT CONFORM TO PART 4 OF THE REFERENCED BUILDING CODE MUST BE REVIEWED BY THE ENGINEER RESPONSIBLE FOR THOSE FRAMING MEMBERS. SIGNIFICANT NOTCHES CONFORMING TO PART 4 MAY BE REVIEWED AND REJECTED IF THEY COMPROMISE THE STRUCTURAL INTEGRITY.
- UNLESS OTHERWISE NOTED, ALL COMPONENTS OF BUILT UP MEMBERS TO BE CONTINUOUS FOR FULL SPAN. DO NOT SPLICE OR USE BUTT JOINTS. OTHERWISE REFER TO TYPICAL DETAIL FOR BUILT-UP BEAMS CONTAINING SPLICES.
- UNLESS OTHERWISE NOTED, ALL PILES OF BUILT-UP BEAMS ARE TO BE FASTENED WITH A DOUBLE ROW OF 75MM (3") LONG COMMON NAILS, NAILS SPACED AT 200MM (8") C/C, STARTING 200MM (8") FROM EACH END, ROWS LOCATED 50MM (2") FROM TOP AND BOTTOM EDGES. IF APPLICABLE, THIRD AND FOURTH PILES FASTENED TO FIRST TWO IN THE SAME WAY.
- PROVIDE ROWS OF BLOCKING BETWEEN JOISTS AT MAX. 2100MM (7'-0") SPACING C/C ALONG LENGTH OF SPAN. IN ADDITION TO BLOCKING SHOWN ON DRAWINGS, UNLESS NOTED OTHERWISE.
- DECK BOARDS TO BE FASTENED TO FRAMING WITH 75MM (3") LONG DECK SCREWS AT EVERY JUNCTION.

DESIGN LOADS

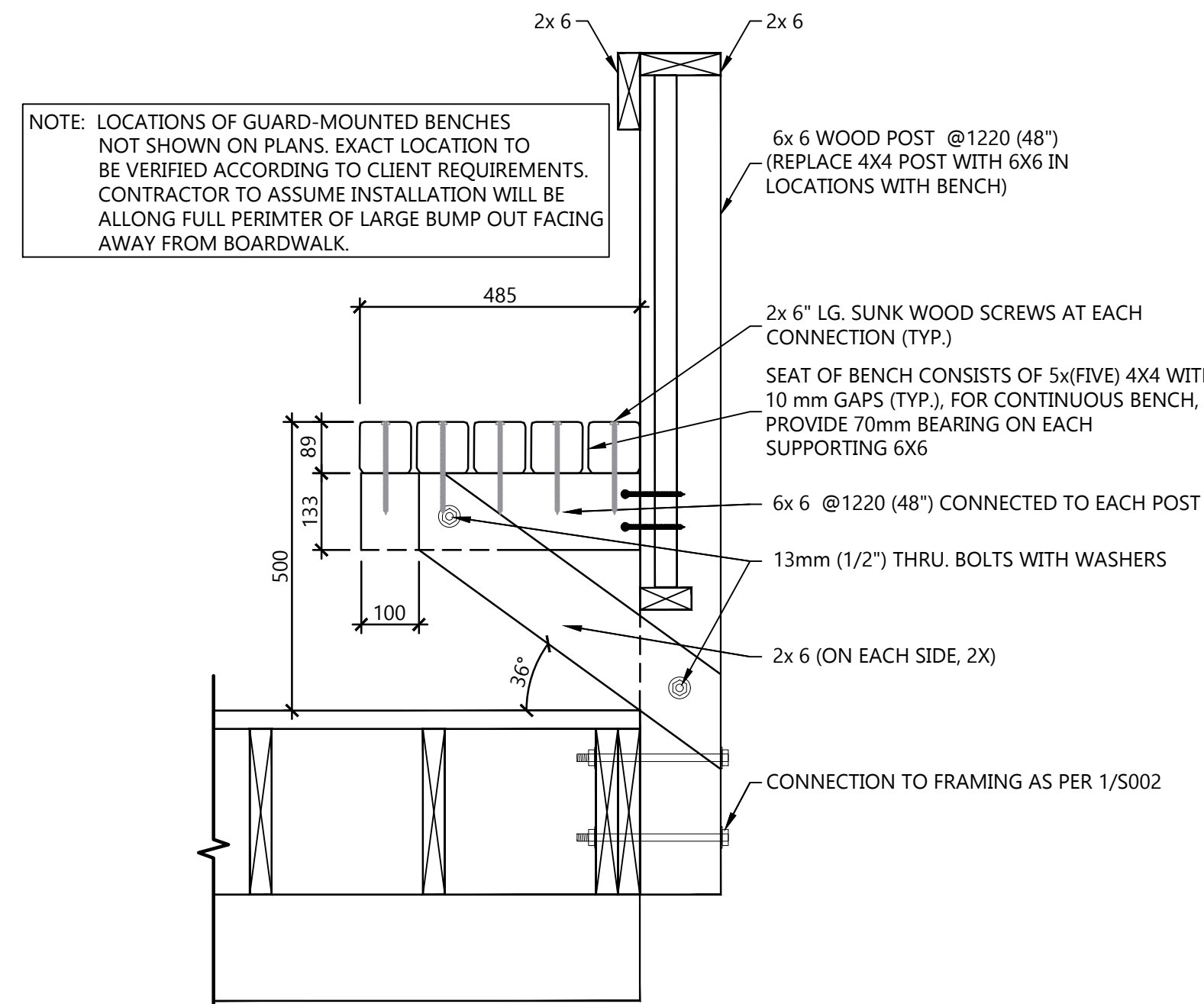
- THE VALUES FOR CLIMATIC DATA USED IN THE DETERMINATION OF DESIGN LOADS HAVE BEEN OBTAINED FROM THE 2015 NBC FOR THE SPECIFIC LOCATION OF **OTTAWA (AIRPORT), ON**.
- SELF WEIGHT (SWT) IS DUE TO THE WEIGHT OF THE STRUCTURE ITSELF. IT VARIES WITH THE STRUCTURAL SYSTEM.
- DEAD LOAD (DL) IS THE SELF WEIGHT OF THE STRUCTURE PLUS THE SUPERIMPOSED DEAD LOAD (NON STRUCTURAL DEAD LOAD).
- UNLESS OTHERWISE NOTED, DESIGN LOADS SHOWN ARE SPECIFIED (MANUFACTURED) LOADS. TO BE USED FOR ULS DESIGN.
- LOAD ON BOARDWALK BUMP-OUTS AND BRIDGES: 4.8 kPa (ASSEMBLY OCCUPANCY)**
- SNOW:**
SNOW LOAD ON GROUND SURFACE: **2.2 kPa**
- DEAD:**
SELF-WEIGHT OF BOARDWALK AND BRIDGE FOR DESIGN PURPOSES: **0.6 kPa**
- SEISMIC:**
SEISMIC FORCE RESISTING SYSTEM (SFRS): $\rho = 1.0$ (NORMAL FACTOR)
5% DAMPED SPECTRAL RESPONSE ACCELERATION VALUES:
PGA = 0.285 SA(0.2) + 0.446 SA(0.5) + 0.24 SA(1.0) + 0.119 SA(2.0) + 0.056
SOIL SITE CLASS DATA BASED ON GEOTECHNICAL REPORT:
GEOTECHNICAL FIRM: GEMTEC
REPORT NUMBER: 100009.056
DATED: JAN 25, 2023 (DRAFT GEOTECHNICAL INVESTIGATION REPORT)
SITE CLASS: **S**

FOUNDATIONS

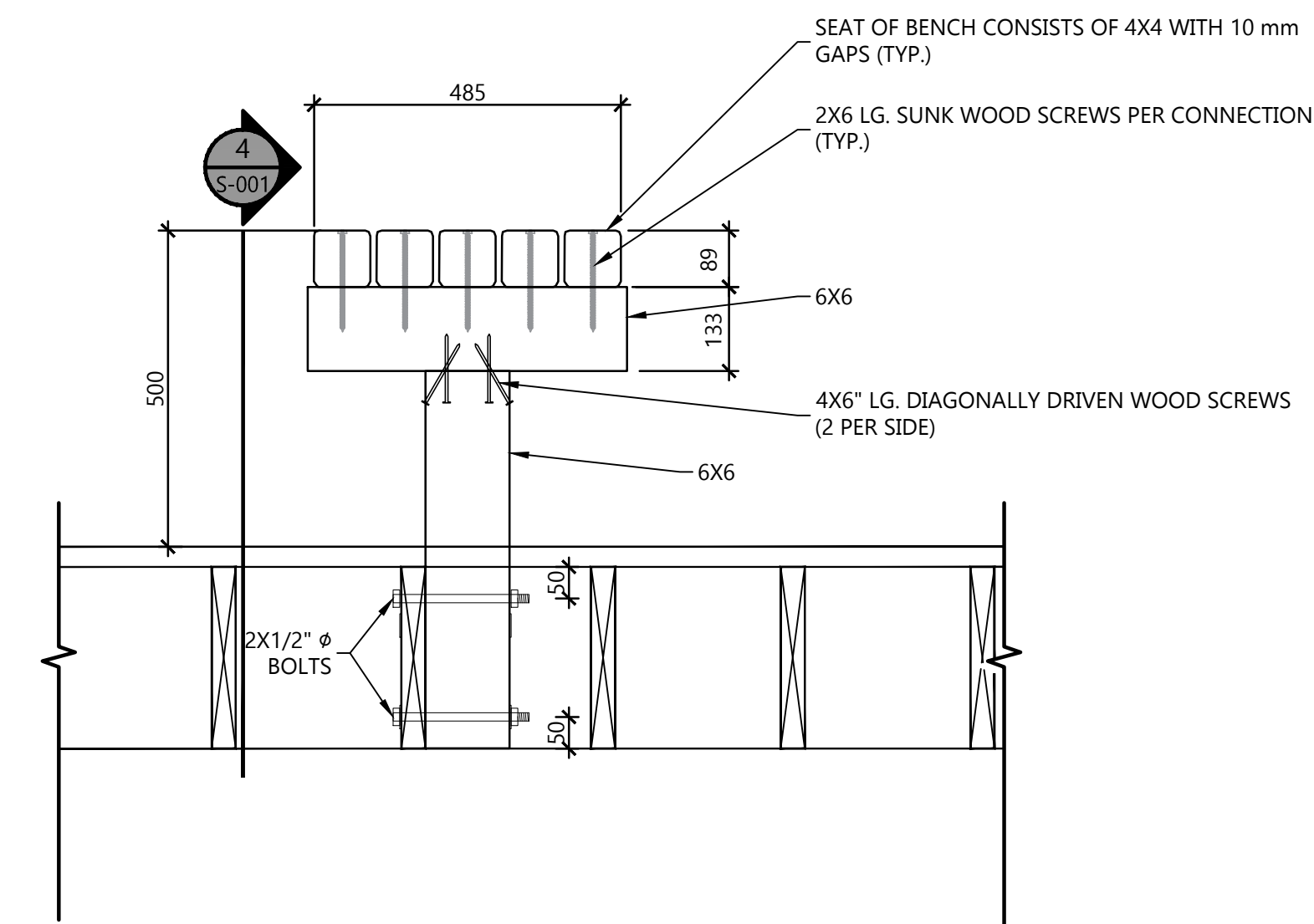
- ALL STRUCTURAL WORK IS TO BE SUPPORTED ON HELICAL PILES (SEE PILE SCHEDULE)
- THE STRUCTURAL DESIGN IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY:
GEOTECHNICAL FIRM: GEMTEC
REPORT/INTERNAL PROJECT NUMBER: 100009.056
DATED: JANUARY 25, 2023
- UNLESS INDICATED ON DRAWINGS, REFER TO THE GEOTECHNICAL REPORT FOR INFORMATION ON SOIL/SUBGRADE CONDITIONS, RECOMMENDATIONS FOR FOUNDATION CONSTRUCTION, AND FOR ALL EARTHWORK INCLUDING EXCAVATION, BACKFILL, AND SUBGRADE PREPARATION.
- THE ASSUMED SOIL BEARING RESISTANCE AT FOOTING LEVEL:
ULS (ULTIMATE LIMIT STATES DESIGN): **NOT GIVEN**
SLS (SERVICEABILITY LIMIT STATES DESIGN): **NOT GIVEN**
- REFER TO PLANS AND DETAILS FOR LOCATIONS OF FOUNDATION ELEMENTS (PILES)
- REFER TO HELICAL PILE SCHEDULE FOR LOADING DATA PER PILE AND ADDITIONAL INFORMATION.
- PRIOR TO EXCAVATION, LOCATE ALL EXISTING UNDERGROUND SERVICES.
- DO NOT USE EARTH FORMS UNLESS APPROVED IN WRITING. FOR ELEMENTS CAST AGAINST SOIL, INSTALL BOTTOM STEEL OF CONCRETE STRUCTURAL ELEMENT TO OBTAIN 75MM (3") CONCRETE COVER.



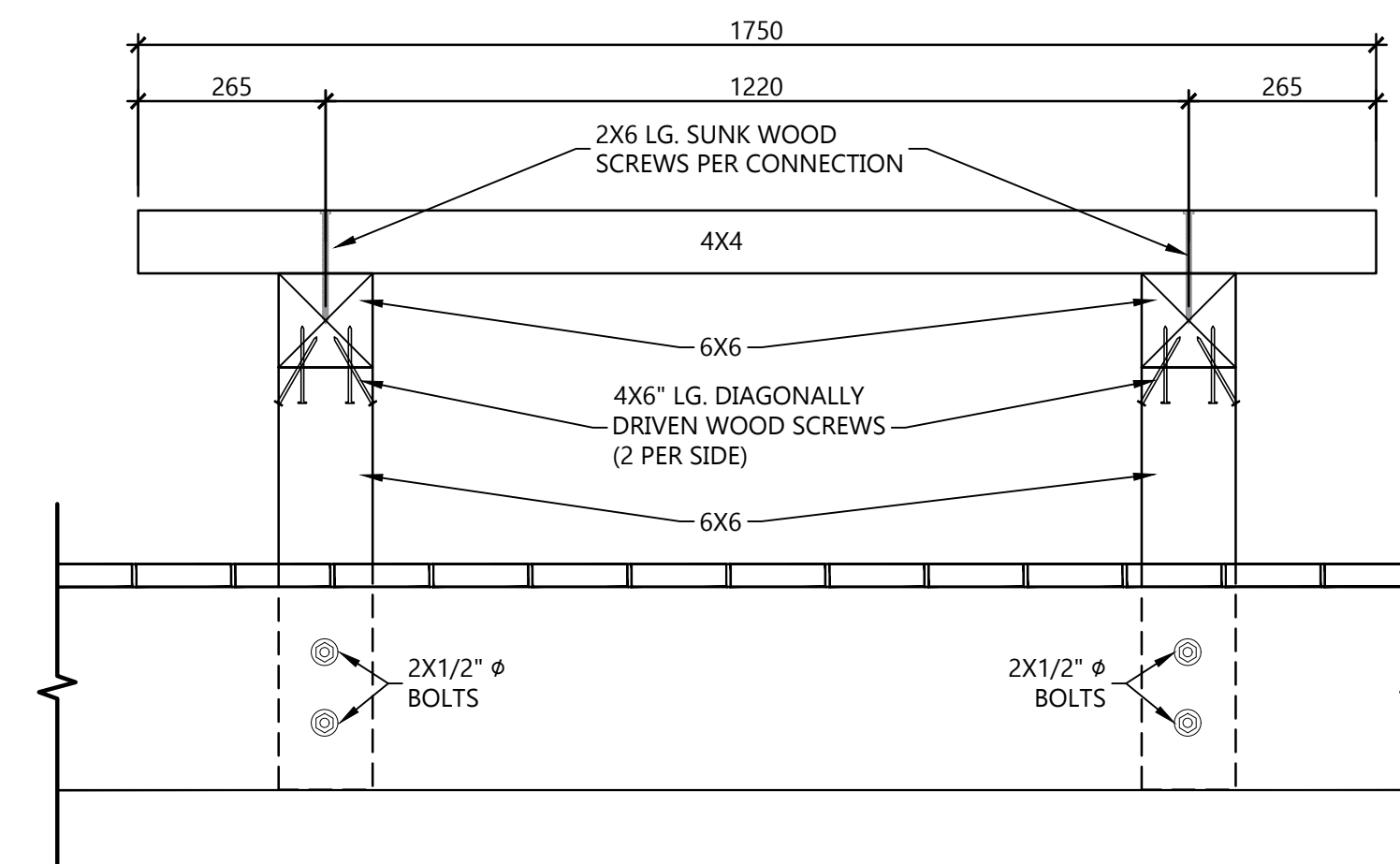
1 S001 BEAM SPLICING (TYP.) SCALE: 1:20



2 S001 GUARD-MOUNTED BENCH SECTION (TYP.) SCALE: 1:10



3 S001 STAND ALONE BENCH SECTION (TYP.) SCALE: 1:10

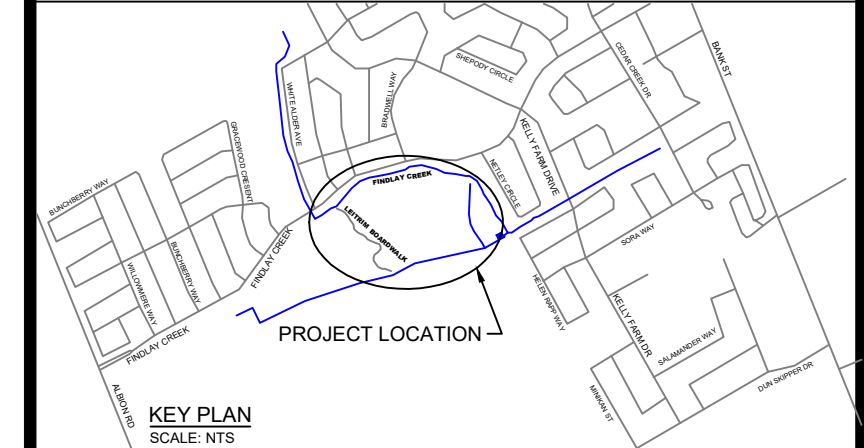


4 S001 STAND ALONE BENCH ELEVATION (TYP.) SCALE: 1:10



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KEYPLAN (NTS)



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6	2023-05-24	T.P./Y.H.	ISSUE FOR CONSTRUCTION
5	2023-05-11	T.P./Y.H.	ISSUED FOR ADDENDUM (1)
4	2023-03-31	T.P./Y.H.	ISSUED FOR TENDER
3	2023-01-16	T.P./Y.H.	ISSUED FOR 100% REVIEW
2	2022-11-11	T.P./Y.H.	ISSUED FOR 80% REVIEW
1	2023-10-07	T.P./Y.H.	ISSUED FOR 50% REVIEW

No.	DATE	BY	REVISION COMMENTS

SNCA - FINDLAY CREEK BOARDWALK OTTAWA, ONTARIO

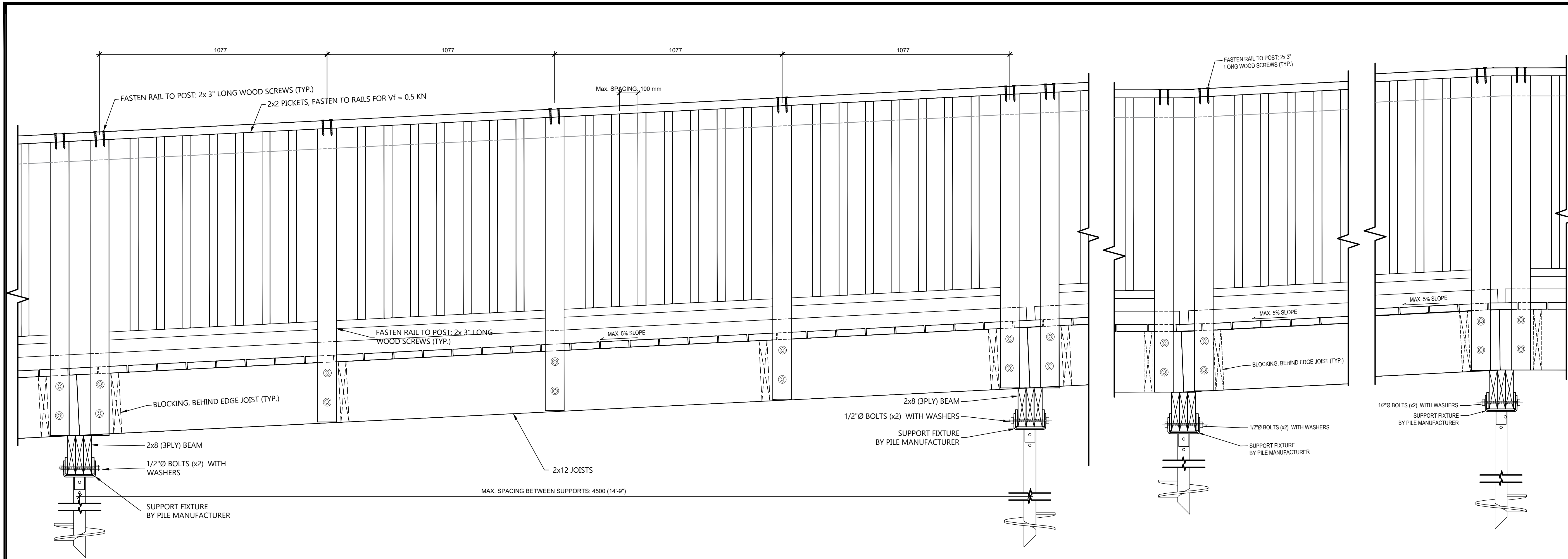
STRUCTURAL NOTES, TYPICAL DETAILS



12 INTERNATIONAL DRIVE, PEMBERE, ON
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DESIGNED: TP	PROJECT No.: 22-1042A
DRAFTED: YH	REVISION DATE: 2022-09-22
CHECKED: TP	APPROVED: TP
SCALE:	CLIENT REF No.: XX-2022-09

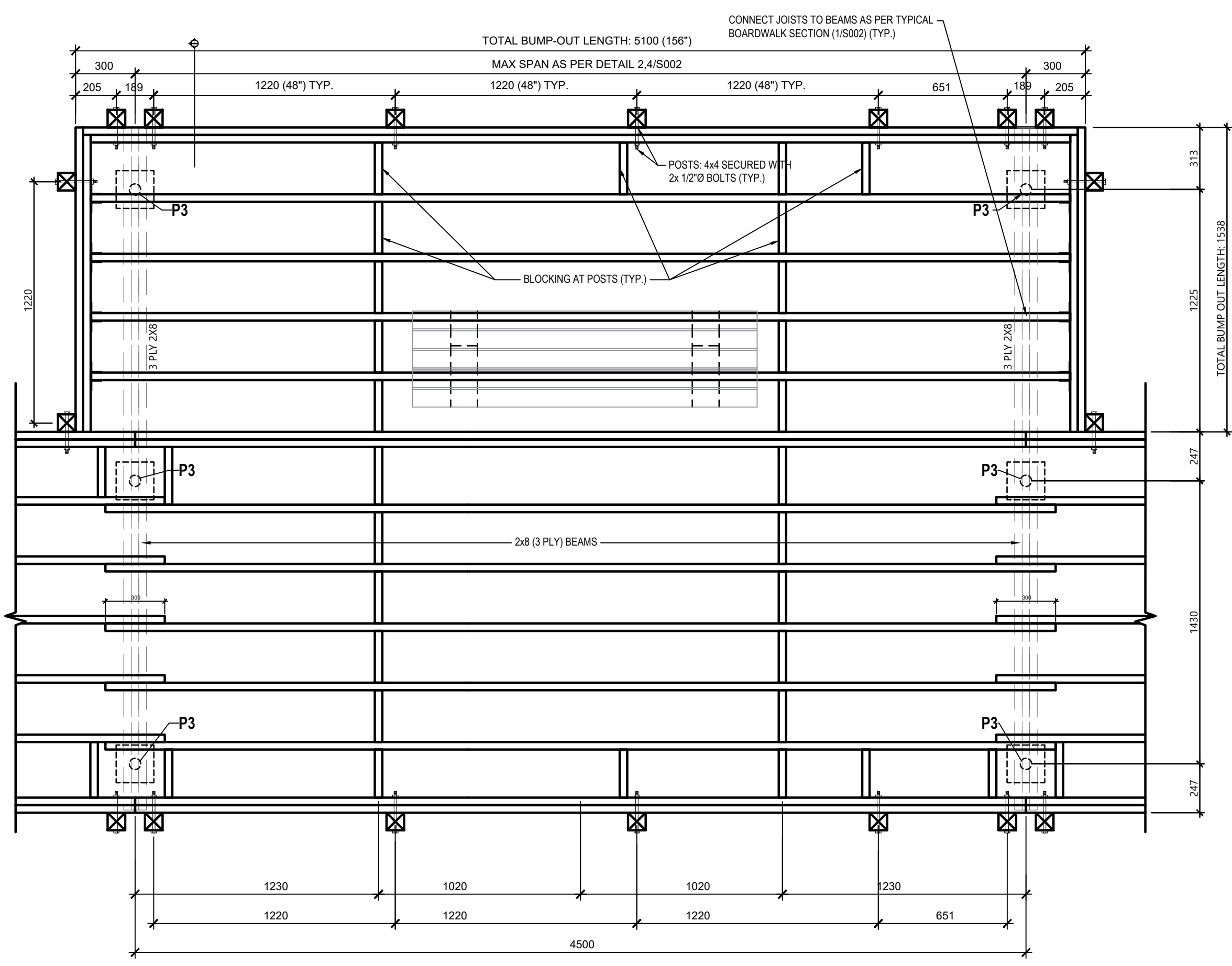
S001



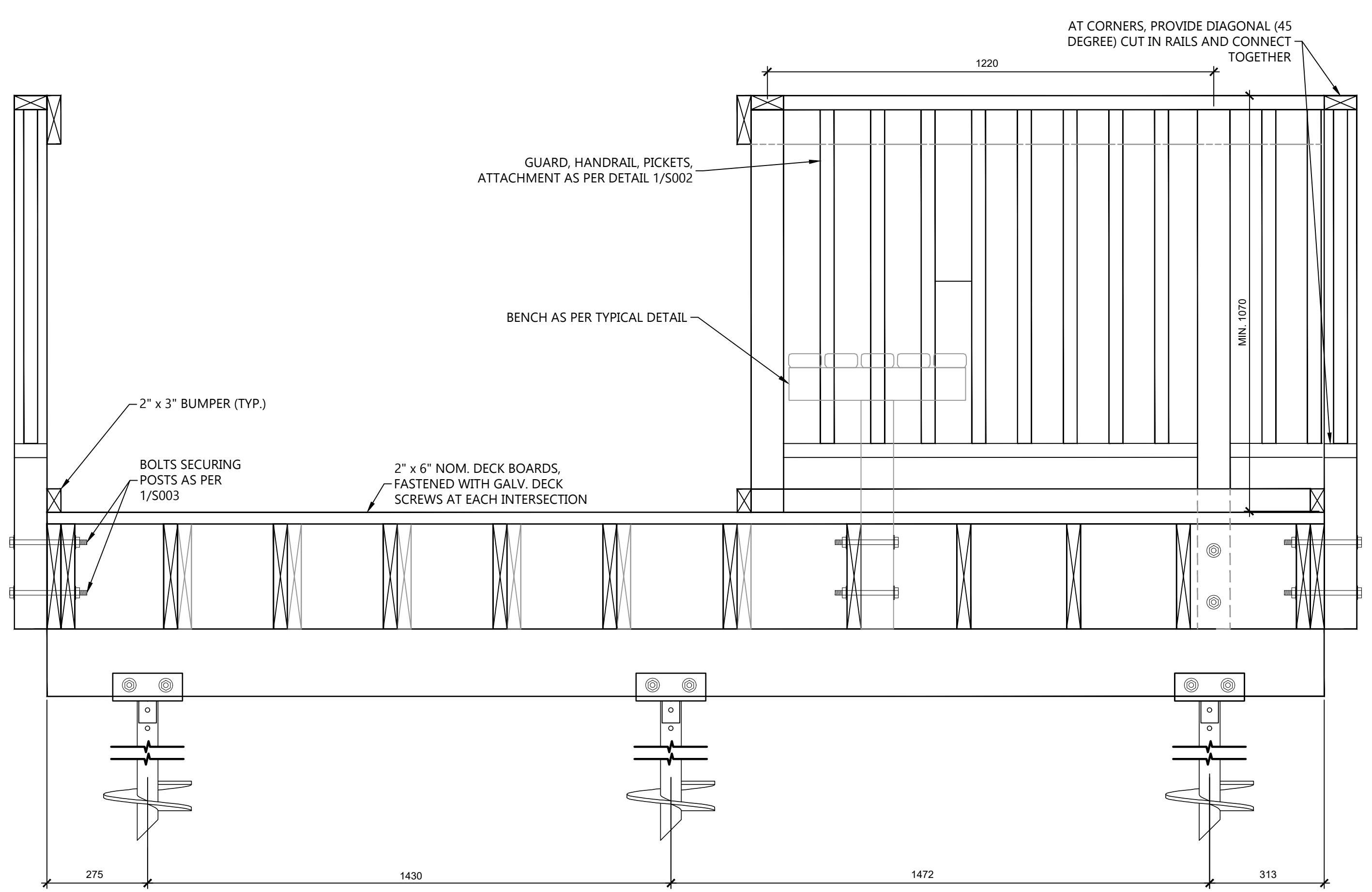
1 SLOPE BOARDWALK WITH GUARD, ELEVATION (TYP.)
SCALE: 1:10

2 BOARDWALK AT LEVEL TO SLOPE UP
SCALE: 1:10

3 BOARDWALK AT LEVEL TO SLOPE DOWN
SCALE: 1:10



4 FRAMING PLAN AT BOARDWALK BUMP OUTS
SCALE: 1:20

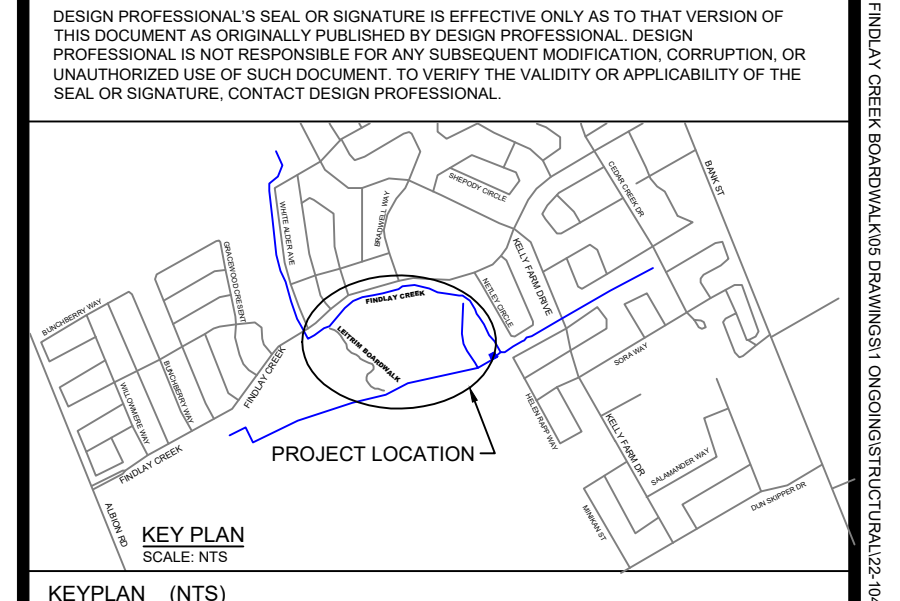


5 BUMP OUTS AT BOARDWALK, SECTION
SCALE: 1:10

SOUTH NATION CONSERVATION
DE LA NATION SUD

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4	2023-03-31	T.P./Y.H.	ISSUED FOR TENDER
3	2023-01-18	T.P./Y.H.	ISSUED FOR 100% REVIEW
2	2022-11-11	T.P./Y.H.	ISSUED FOR 90% REVIEW
1	2022-10-07	T.P./Y.H.	ISSUED FOR 50% REVIEW

No.	DATE	BY	REVISION COMMENTS
0	YYYY-MM-DD	DESIGN/PT	

SNCA - FINDLAY CREEK BOARDWALK
OTTAWA, ONTARIO

TYP. SLOPE SECTIONS,
BUMP OUTS PLAN & SECTION

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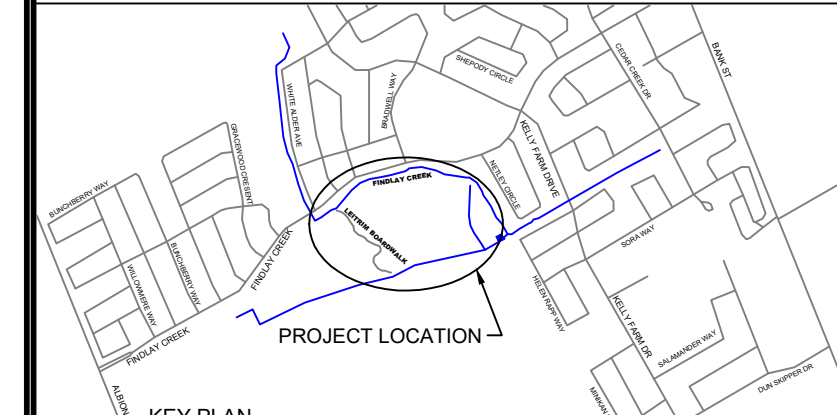
12 INTERNATIONAL DRIVE, PEMBROKE, ON
Phone: (813) 735-2507, Fax: (813) 735-4513
1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON
Phone: (813) 628-7800, Fax: (813) 628-3000

DESIGNED: TP	PROJECT No.: 22-1042A
DRAFTED: YH	REVISION DATE: 2022-09-22
CHECKED: TP	APPROVED: REVISION No.:
SCALE:	CLIENT REF No.: XX-2022-09

S003

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KEYPLAN (NTS)
SCALE: NTS



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1	2022-10-07	T.P./Y.H.	ISSUED FOR 50% REVIEW

No.	XXXX-AM-00	REVISION COMMENTS
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SNCA - FINDLAY CREEK BOARDWALK
OTTAWA, ONTARIO

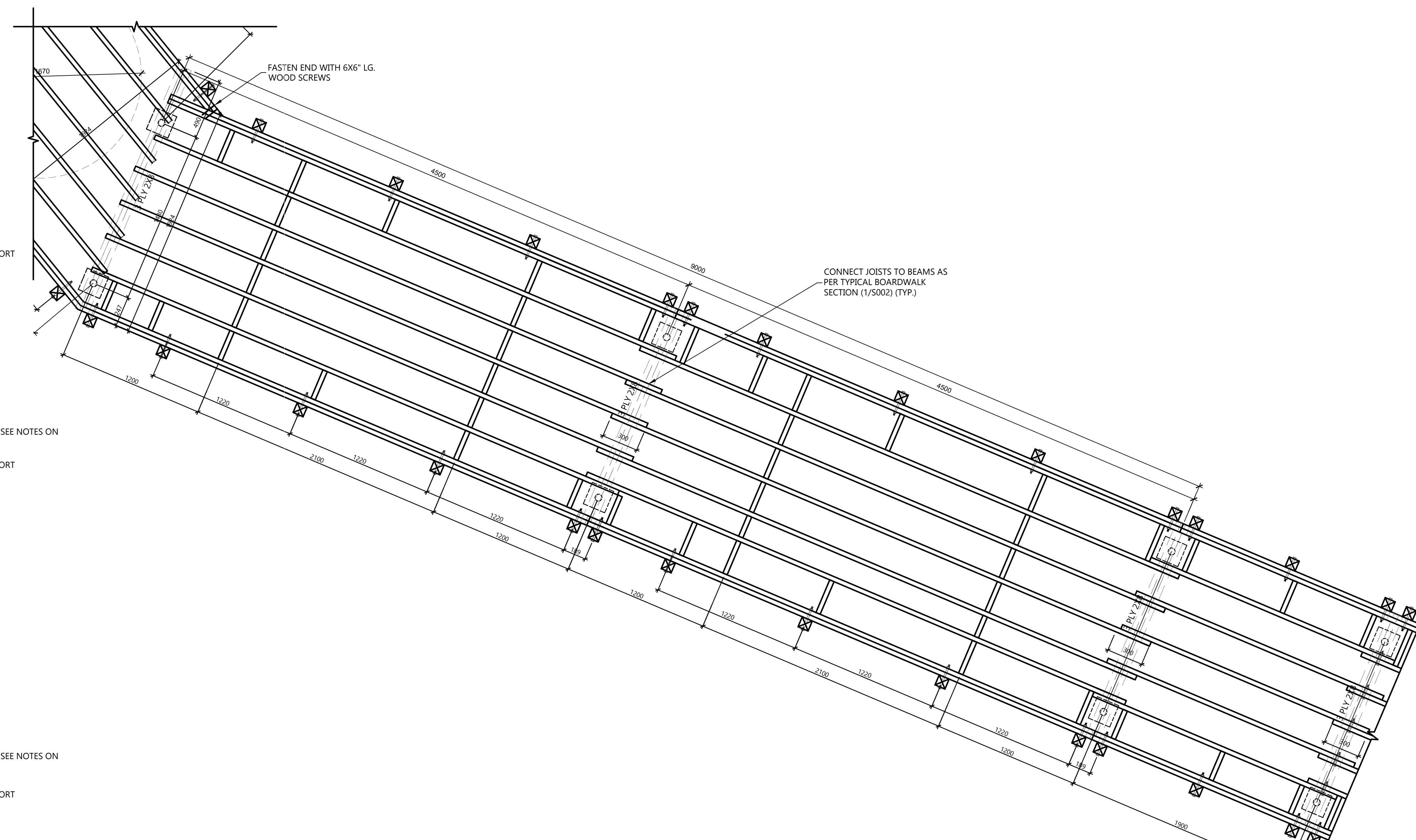
PARTIAL FRAMING PLAN & END OF BOARDWALK AT BERM AND CREEK PARTIAL KEY PLAN

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Phone: (813)828-1800, Fax: (813)828-3000

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SCALE:	CLIENT REF No.: XX-2022-09

S005

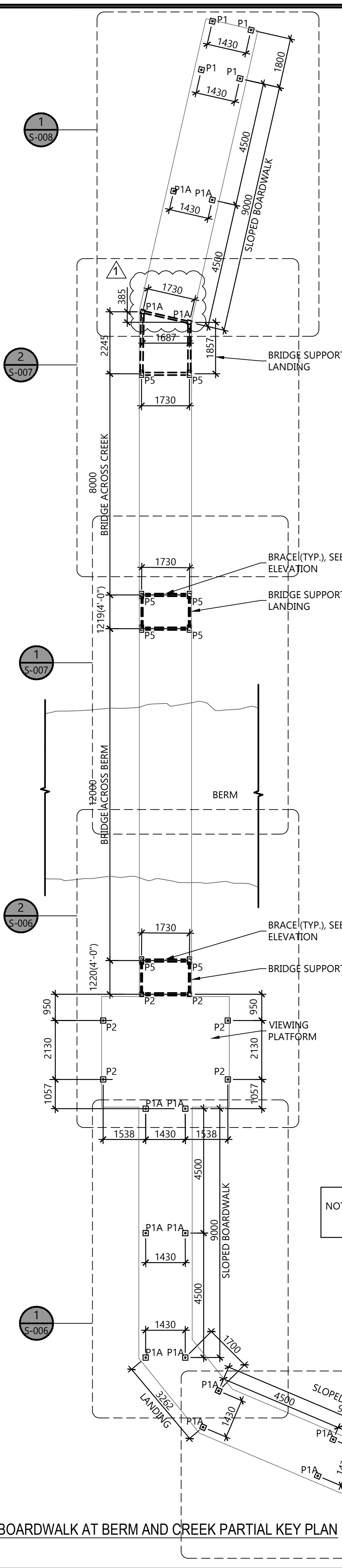


2 PARTIAL FRAMING PLAN
SCALE: 1:20

BEYOND THIS POINT, BOARDWALK CONTINUES AS PER TYPICAL DETAILS (1, 2, 3, 4/ S002)

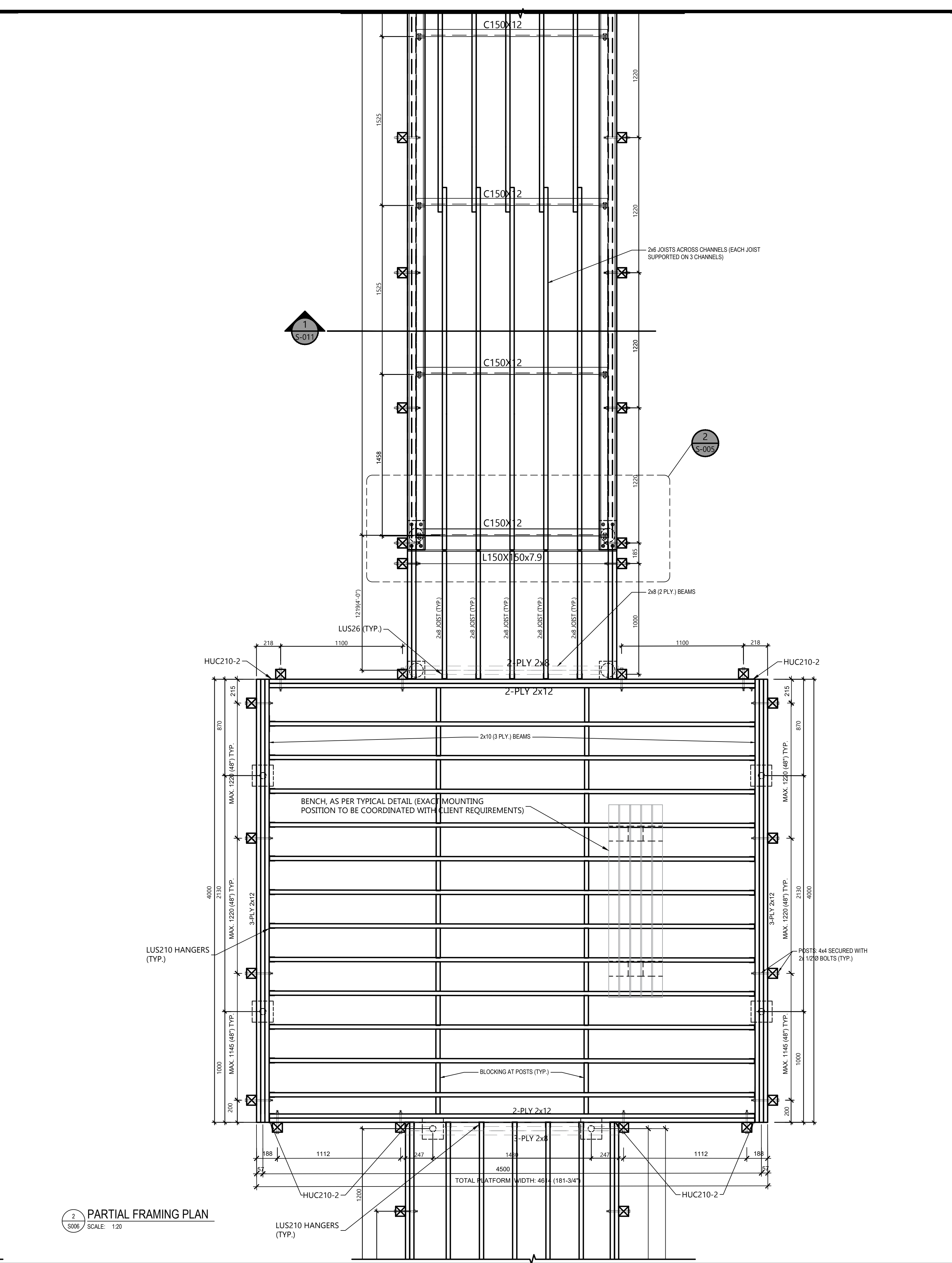
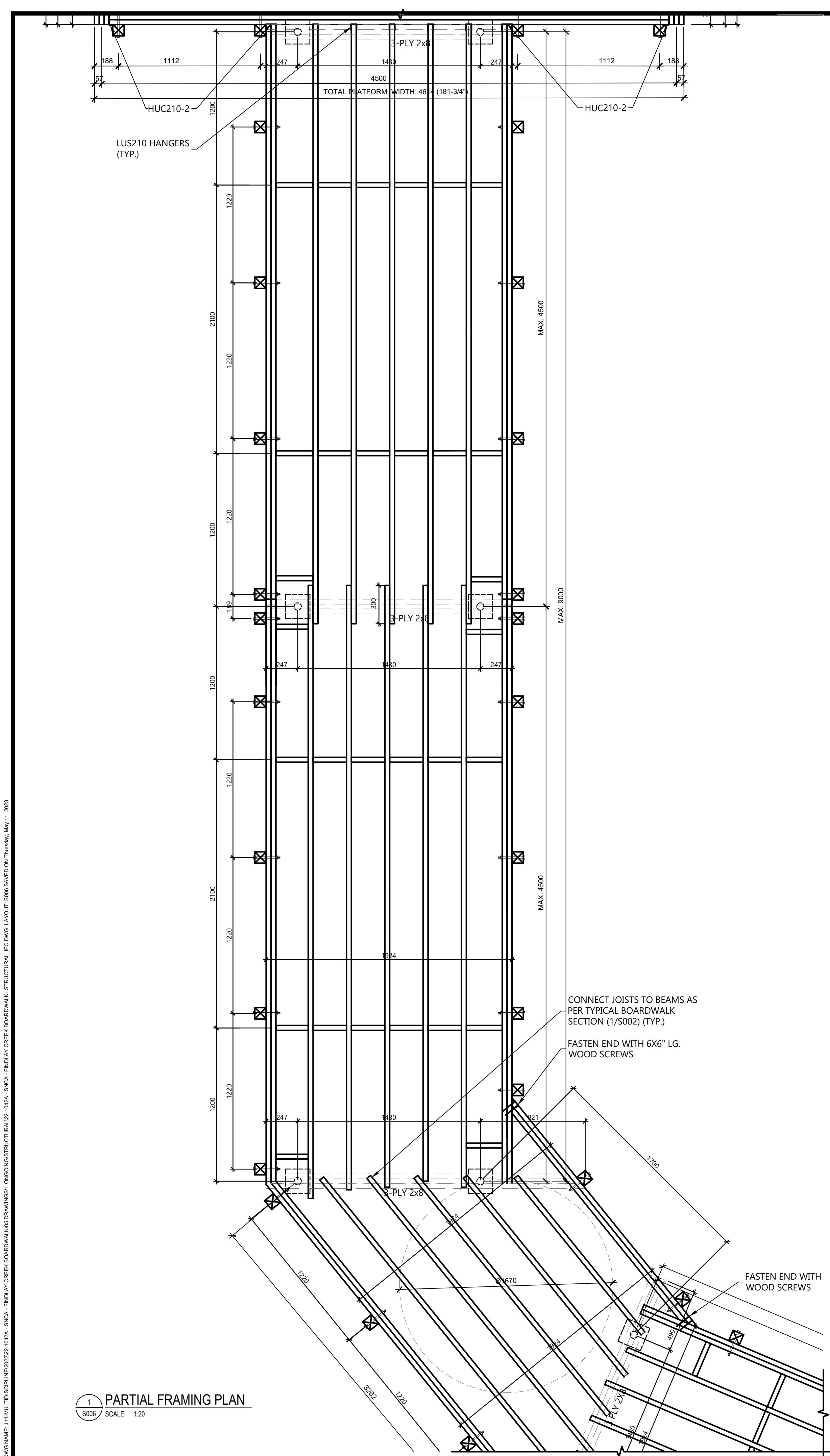
MARK	LOADING				MIN. DEPTH OF PILE(MM)	MAX HEIGHT ABOVE GRADE (APPROX)	SUPPORT AT TOP OF PILE	COUNT	NOTES
	BEARING ULS (KN)	BEARING SLS (KN)	LATERAL ULS(KN)	UPLIFT ULS(KN)					
P1	35	24	4	4	1800	0.4 M	SADDLE	224 (EST.)	AT TYPICAL BOARDWALK NEAR GRADE LEVEL
P1A	35	24	4	4	1800	2.4 m	SADDLE	18	AT TYPICAL BOARDWALK HEIGHT ABOVE GRADE
P2	42	29	4	4	1800	2.4m	SADDLE	6	ELEVATED PILES AT VIEW PLATFORM
P3	55	38	6	6	1800	0.4m	SADDLE	34	PILES AT SMALL BUMP OUTS
P4	78	53	7	7	1800	0.4m	SADDLE	2	HIGHER CAPACITY PILES AT LARGE BUMP OUT
P5	50	35	5	5	1800	2.4m	BEARING PLATE	8	ELEVATED PILES SUPPORTING BRIDGE

- HELICAL PILE NOTES**
- DESIGN OF TOP OF PILE (PILE HEAD) BY PILE FABRICATOR / INSTALLER, AT EACH PILE. TOP OF PILE TO ACCOMMODATE WOOD BEAM (SADDLE) OR STEEL BEAM (BEARING PLATE), DESIGN TO BE REVIEWED ON SHOP DRAINGS BY THE CONSULTANT PRIOR TO FABRICATION & INSTALLATION
 - HELICAL PILE TO BE INDEPENDENTLY TESTED, INSTALLER TO PROVIDE CCMC EVALUATION REPORT.
 - HELICAL PILE INSTALLER TO PROVIDE PILE DESIGN AND PILE INSTALLATION PLAN, SEALED BY P.ENG. LICENSED IN THE PROVINCE OF ONTARIO.
 - PILE SHAFTS TO BE INSTALLED WITH PLASTIC SLEEVES TO PREVENT ADFFREEZE
 - SPLICED CONNECTION DETAILS BETWEEN LENGTHS OF SHAFT (IF REQUIRED DUE TO GREATER PILE DEPTH) BY PILE INSTALLER.
 - SPLICED CONNECTIONS TO TRANSFER FULL APPLIED LOAD AS INDICATED.
 - STEEL GRADE TO BE: ASTM A500 GRADE C, OR G40.21 350W
 - ALL STEEL COMPONENTS OF PILES TO BE GALVANIZED AS PER CSA G-164-M92: 610G/MF



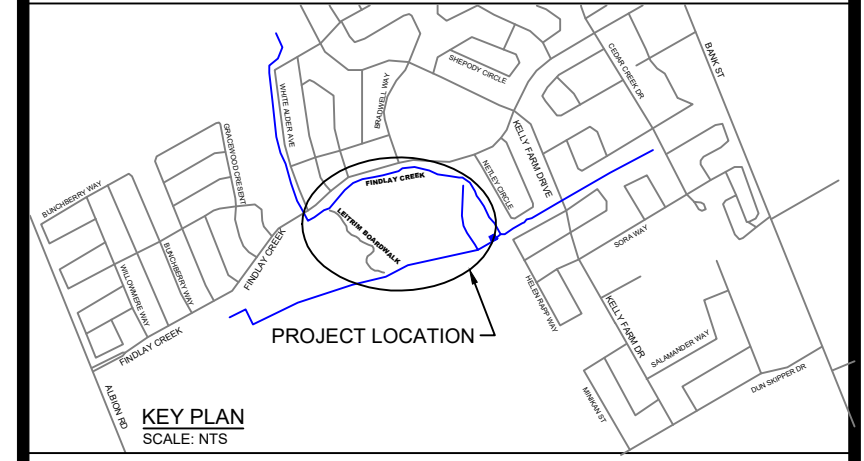
1 END OF BOARDWALK AT BERM AND CREEK PARTIAL KEY PLAN
SCALE: 1:100

NOTE: FRAMING (JOISTS, BEAMS), AND GUARDS NOT SHOWN



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No.	XXXX-AM-00	DESIGN/RT	REVISION COMMENTS

**SNCA - FINDLAY
CREEK BOARDWALK
OTTAWA, ONTARIO**

PARTIAL FRAMING PLAN

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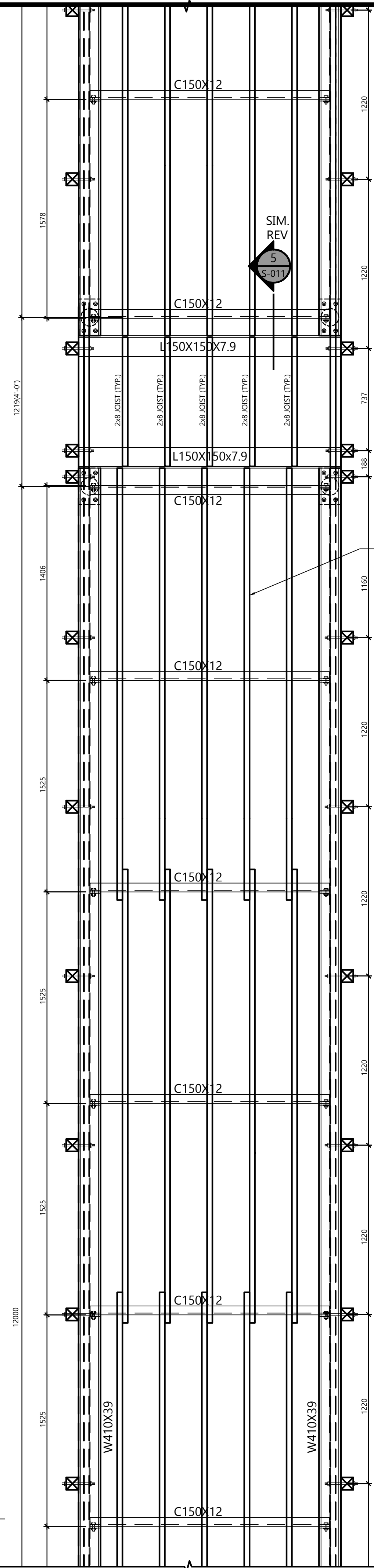
12 INTERNATIONAL DRIVE, PEMBROKE, ON
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1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON
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DRAFTED: YH	REVISION DATE: 2022-09-22
CHECKED: TP	APPROVED: REVISION No.:
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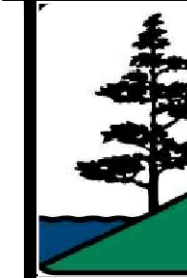
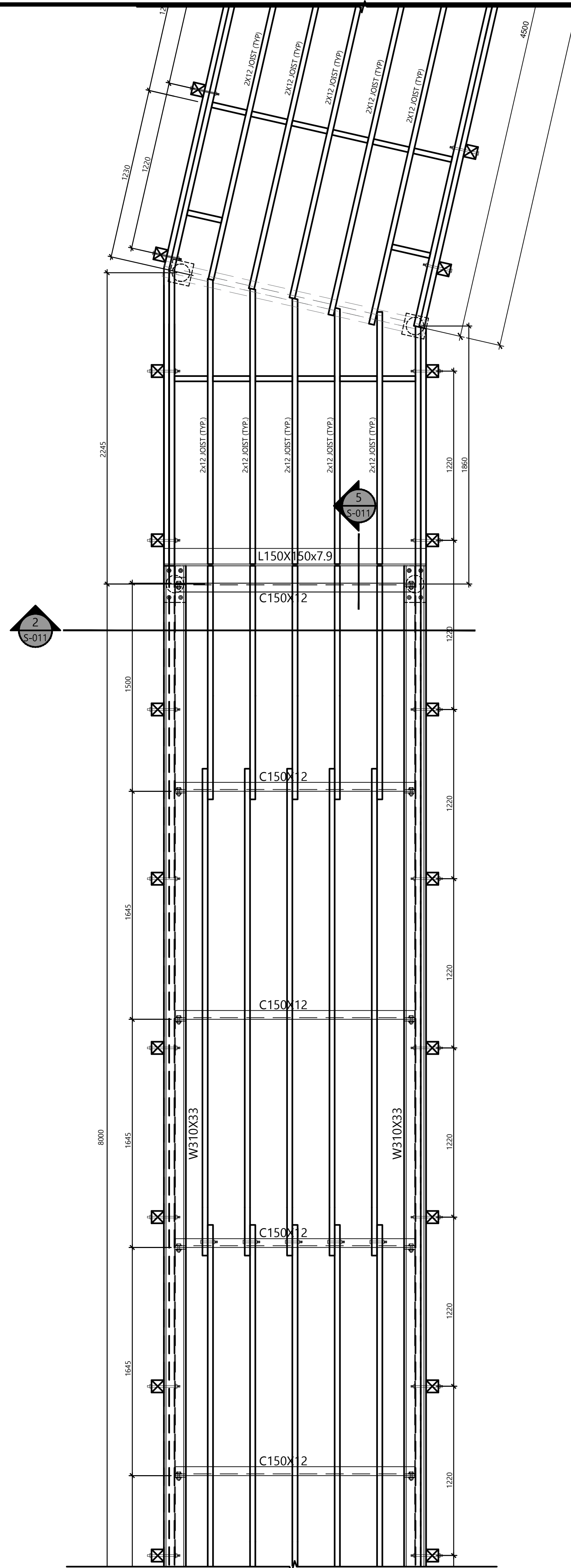
S006

DRAWN: J. HALL (JPH/2022/SNCA - SNCA - FINDLAY CREEK BOARDWALK STRUCTURAL) / CHECKED: T. PLESNIK (TP/2022/SNCA - SNCA - FINDLAY CREEK BOARDWALK STRUCTURAL) / DATE: 2022-05-11

1 PARTIAL FRAMING PLAN
SCALE: 1:20



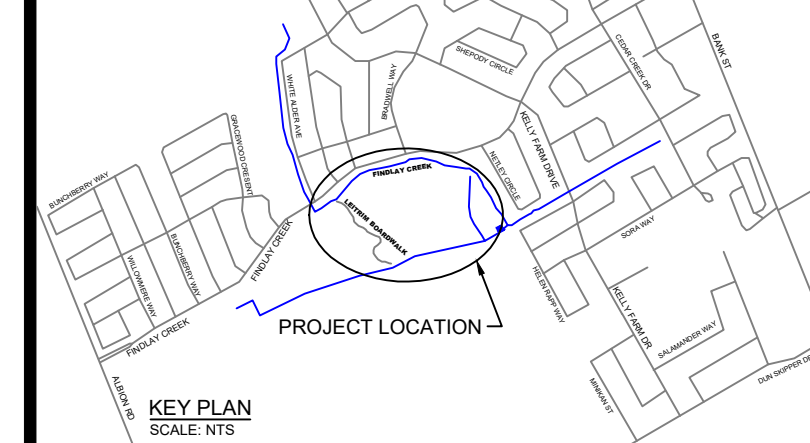
2 PARTIAL FRAMING PLAN
SCALE: 1:20



**SOUTH NATION
CONSERVATION**
DE LA NATION SUD

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KEY PLAN
SCALE: NTS



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No.	YYYY-MM-DD	DESIGN/RT	REVISION COMMENTS

**SNCA - FINDLAY
CREEK BOARDWALK
OTTAWA, ONTARIO**
~
PARTIAL FRAMING PLAN

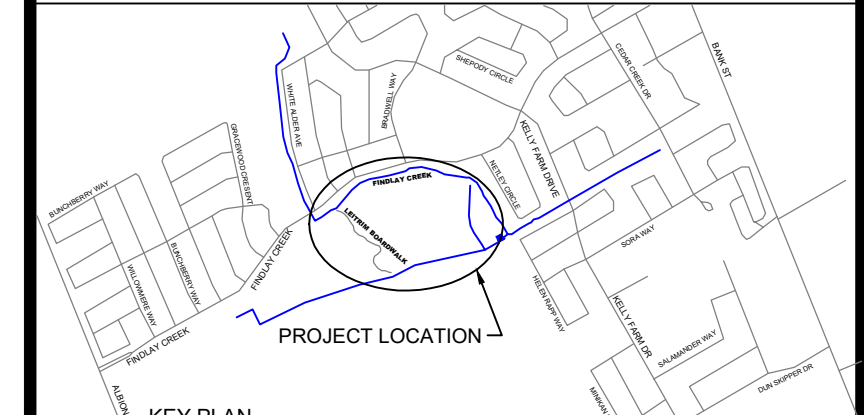
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S007

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No. YYYYMMDD
DESIGNER

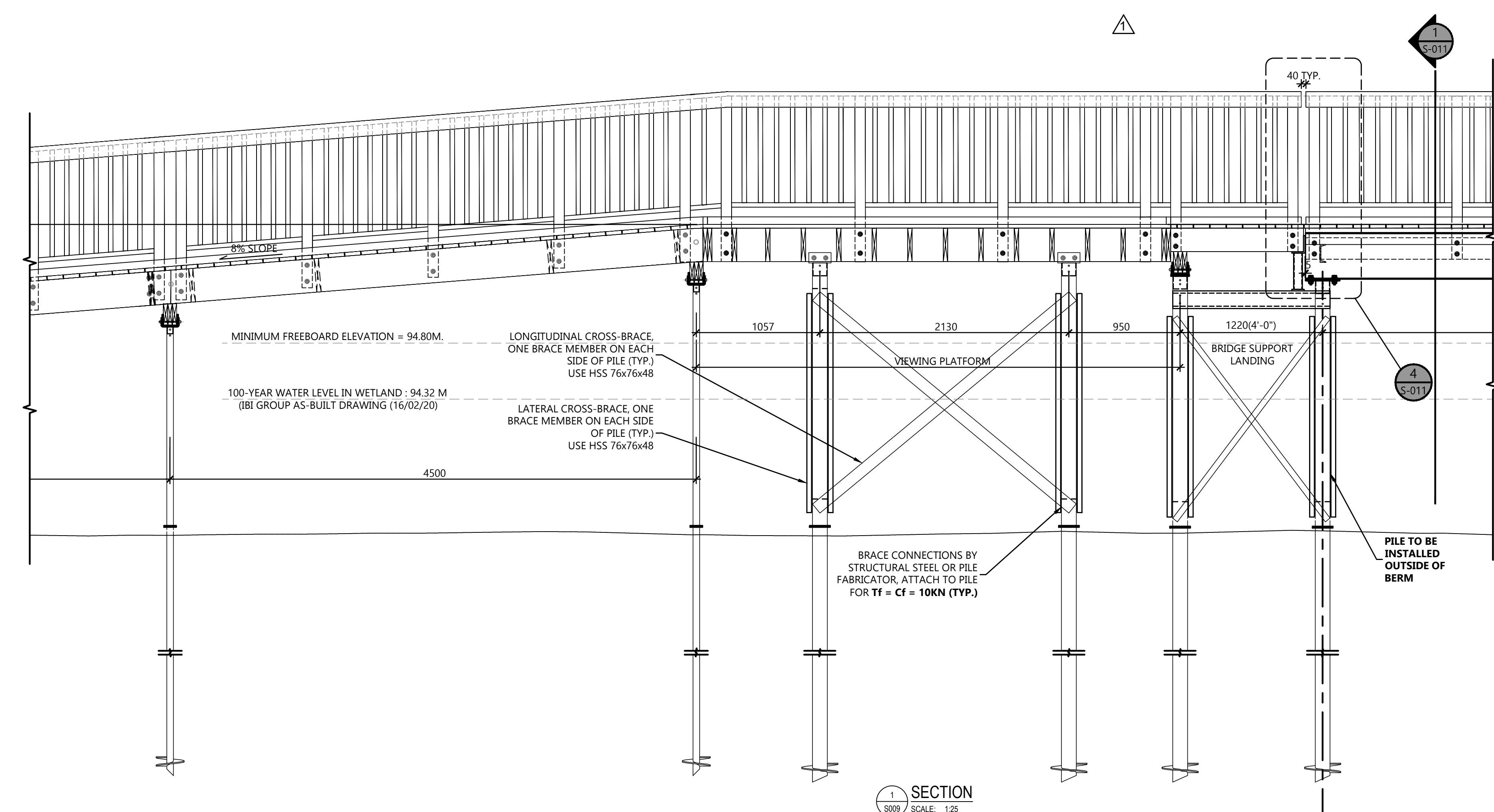
SNCA - FINDLAY CREEK BOARDWALK
OTTAWA, ONTARIO
SECTIONS

J2 Jp2g Consultants Inc.
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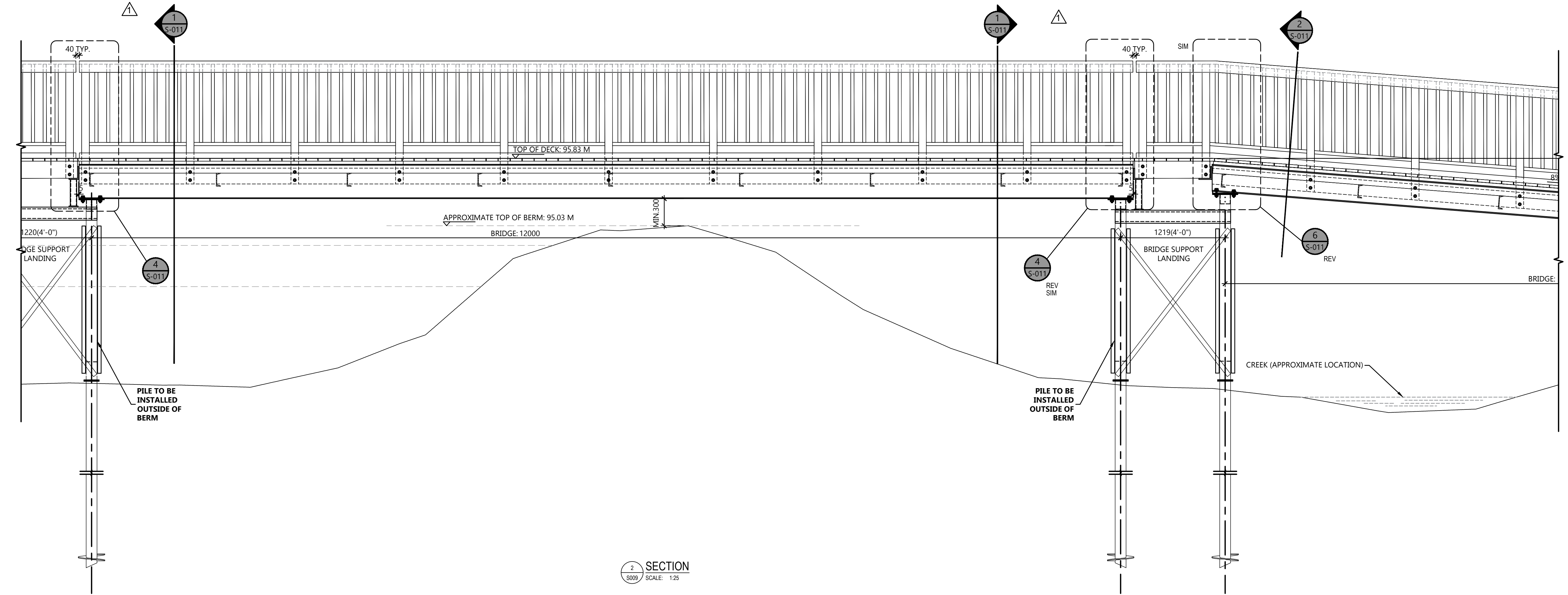
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S009

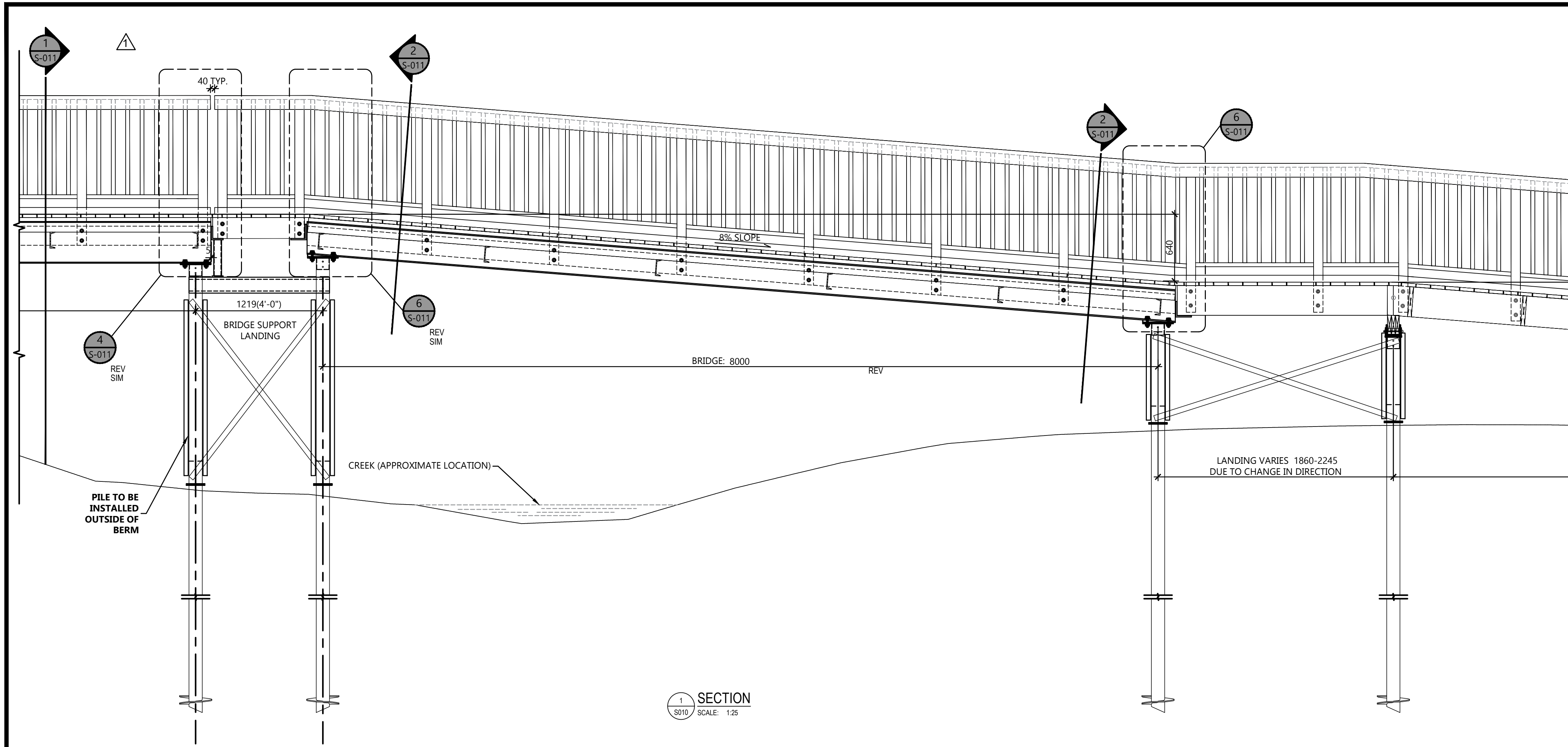


SECTION 1
SCALE: 1:25

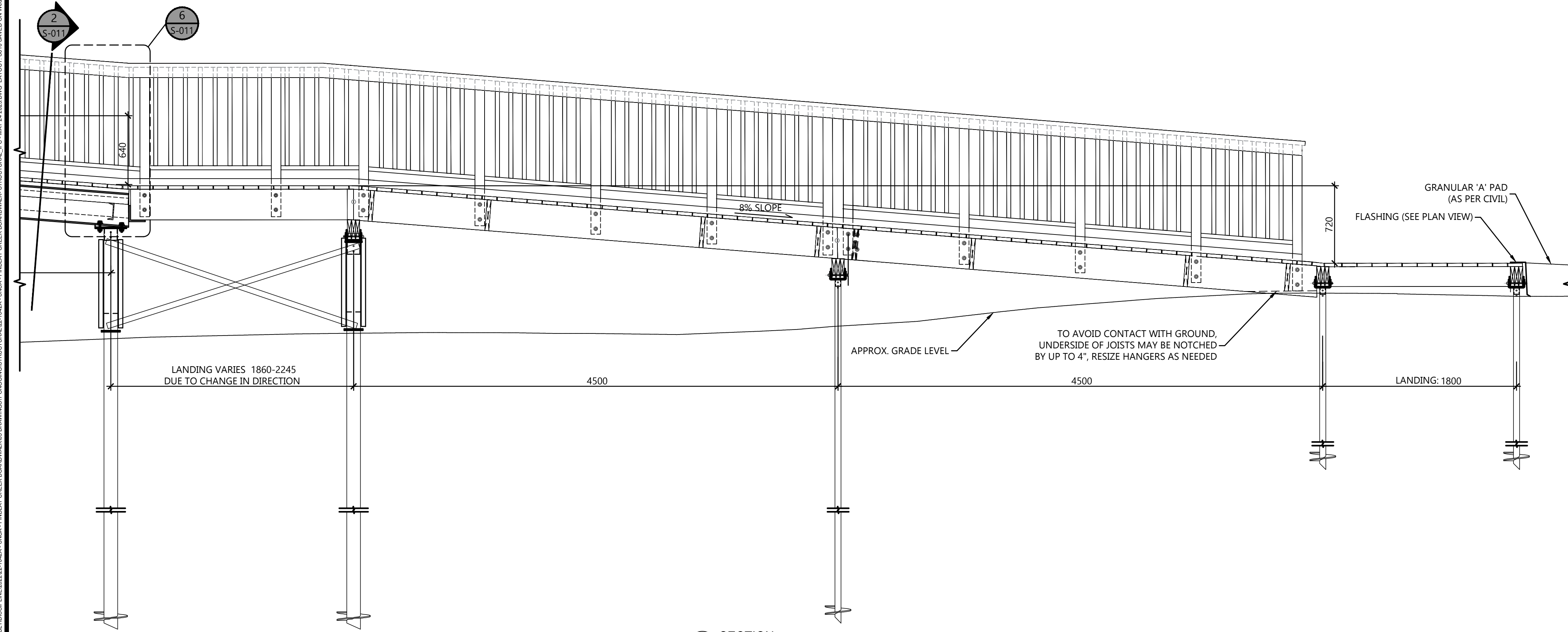


SECTION 2
SCALE: 1:25

DRAWN: JFC; CHECKED: YH; DESIGNED: TP; PROJECT: 22-1042A - SNCA - FINDLAY CREEK BOARDWALK - STRUCTURAL - JFC - MAY 24 2023 DWG; LAYOUT: S009 (REVISED ON 2023-05-24); DATE: MAY 24 2023



1 SECTION
S010 SCALE: 1:25

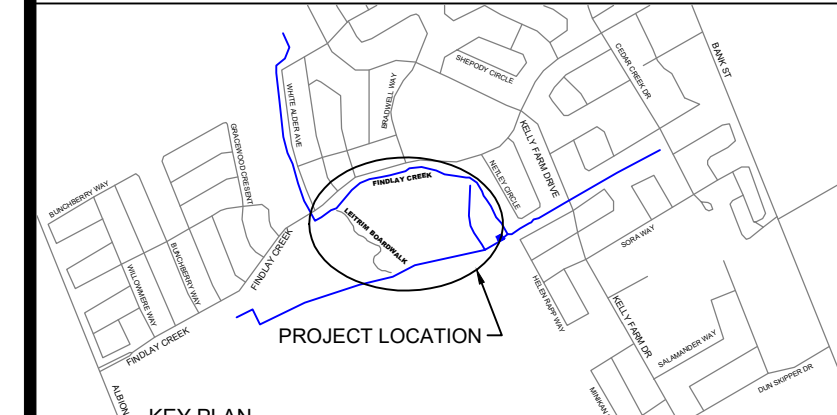


2 SECTION
S010 SCALE: 1:25



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No.	DATE	BY	REVISION COMMENTS

**SNCA - FINDLAY
CREEK BOARDWALK
OTTAWA, ONTARIO**

~
SECTIONS

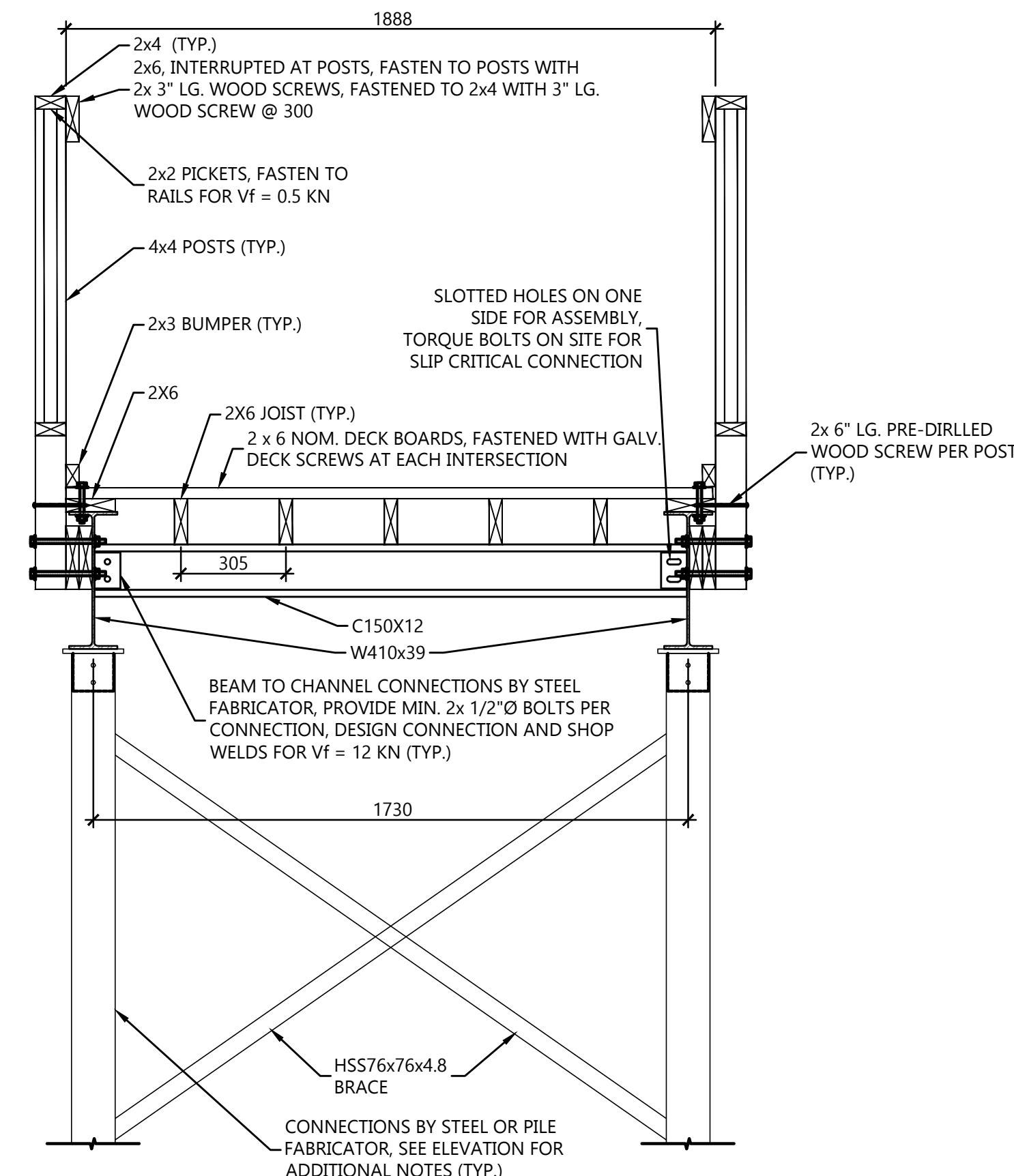
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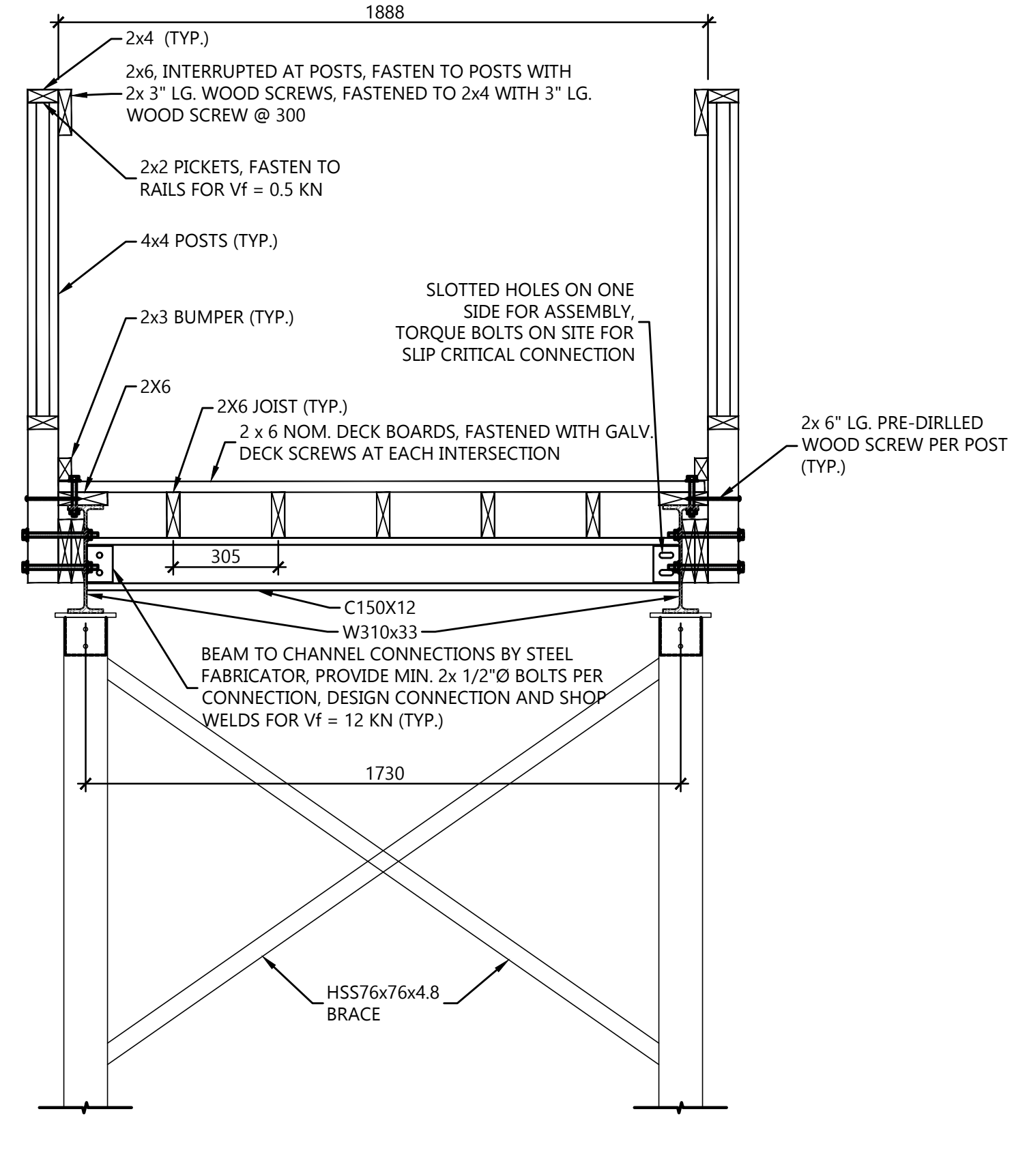
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SCALE:	CLIENT REF No.: XX-2022-09

S010

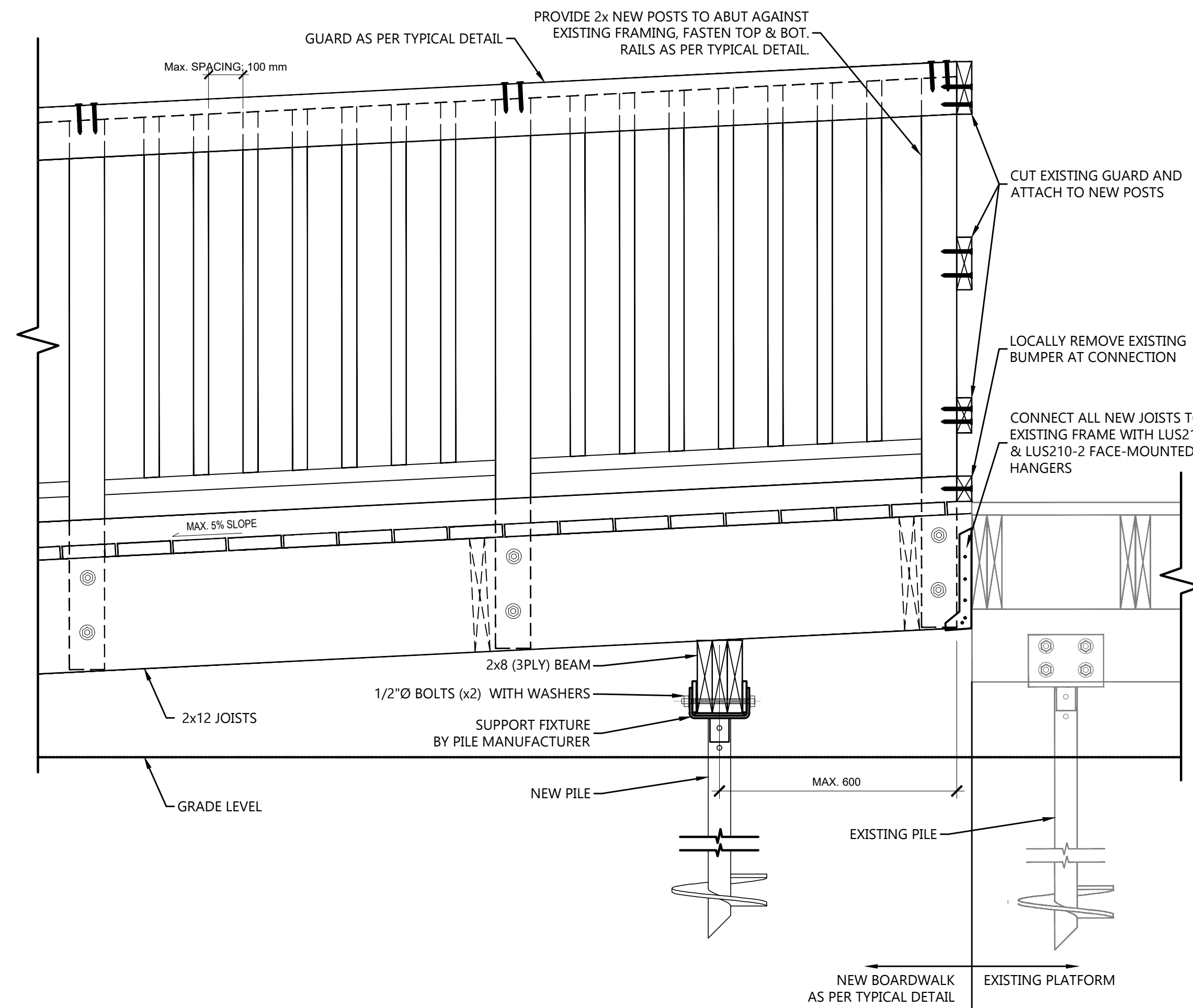
DRAWN: J.P. LESNIK, PROJECT: 22-1042A, SNCA - FINDLAY CREEK BOARDWALK - STRUCTURAL - JFC - MAY 24 2023.DWG, LAYOUT: S010, DATE: MAY 24, 2023



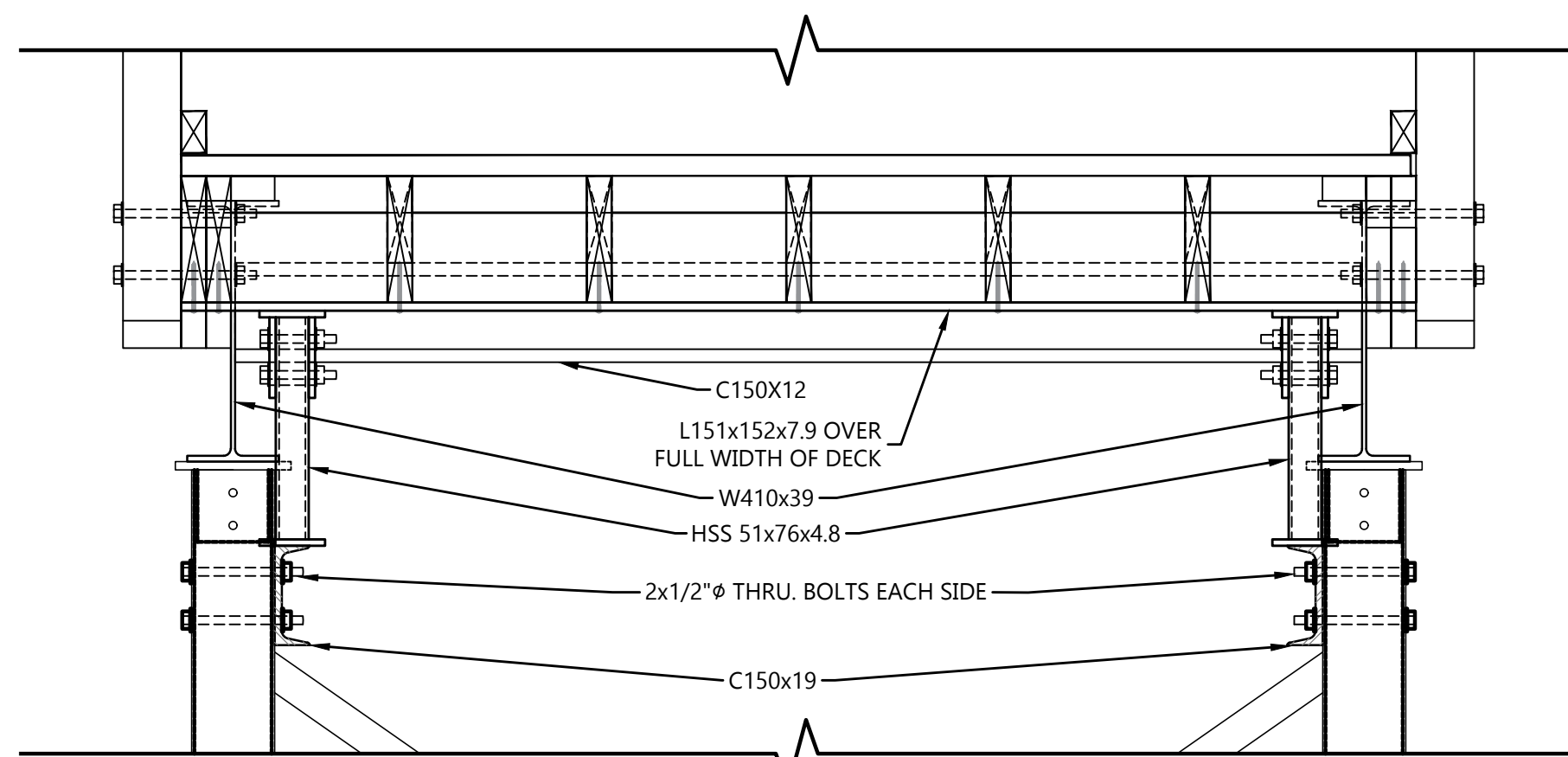
1 12M BRIDGE SECTION
SCALE: N.T.S.



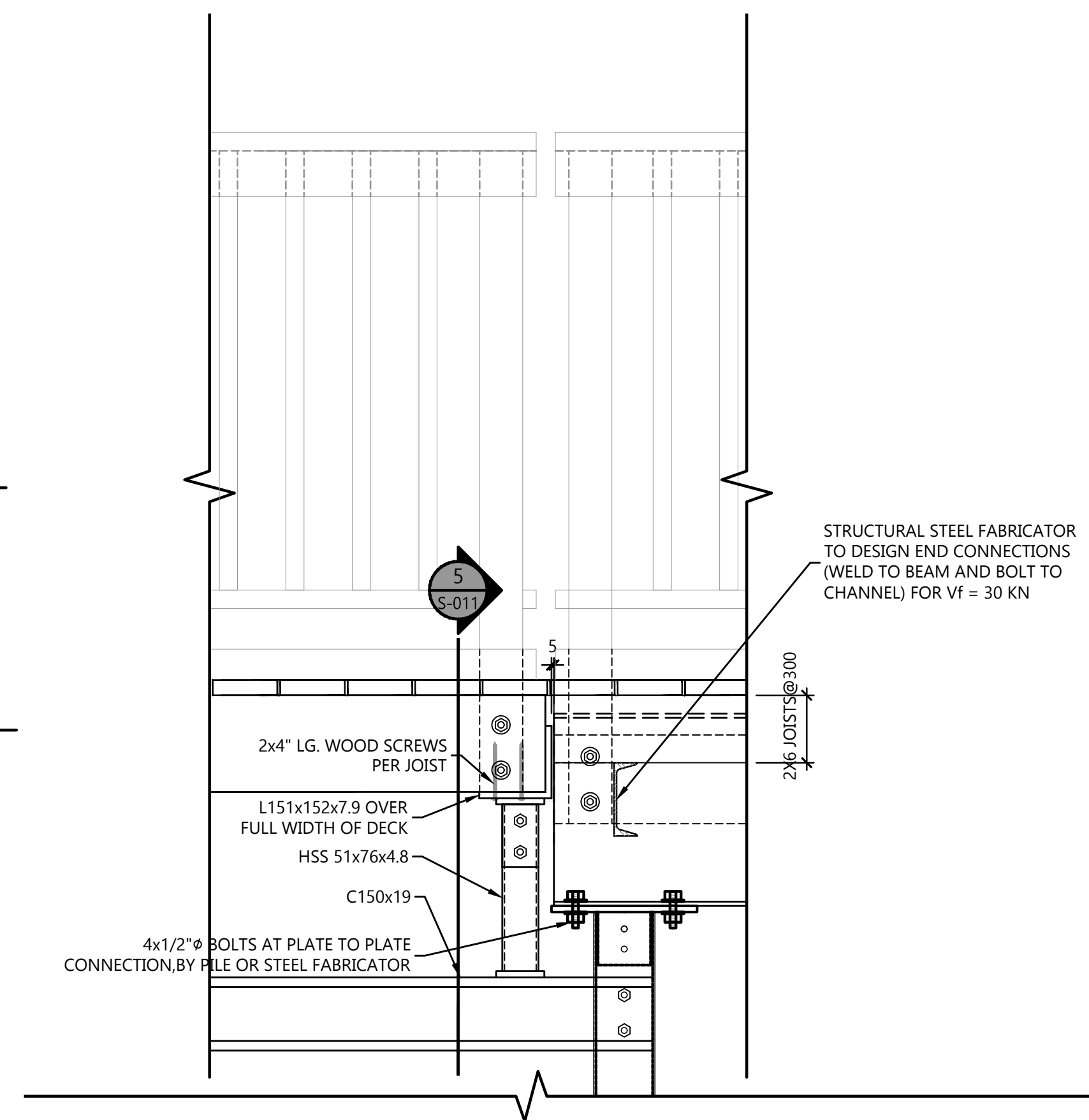
2 8M BRIDGE SECTION
SCALE: N.T.S.



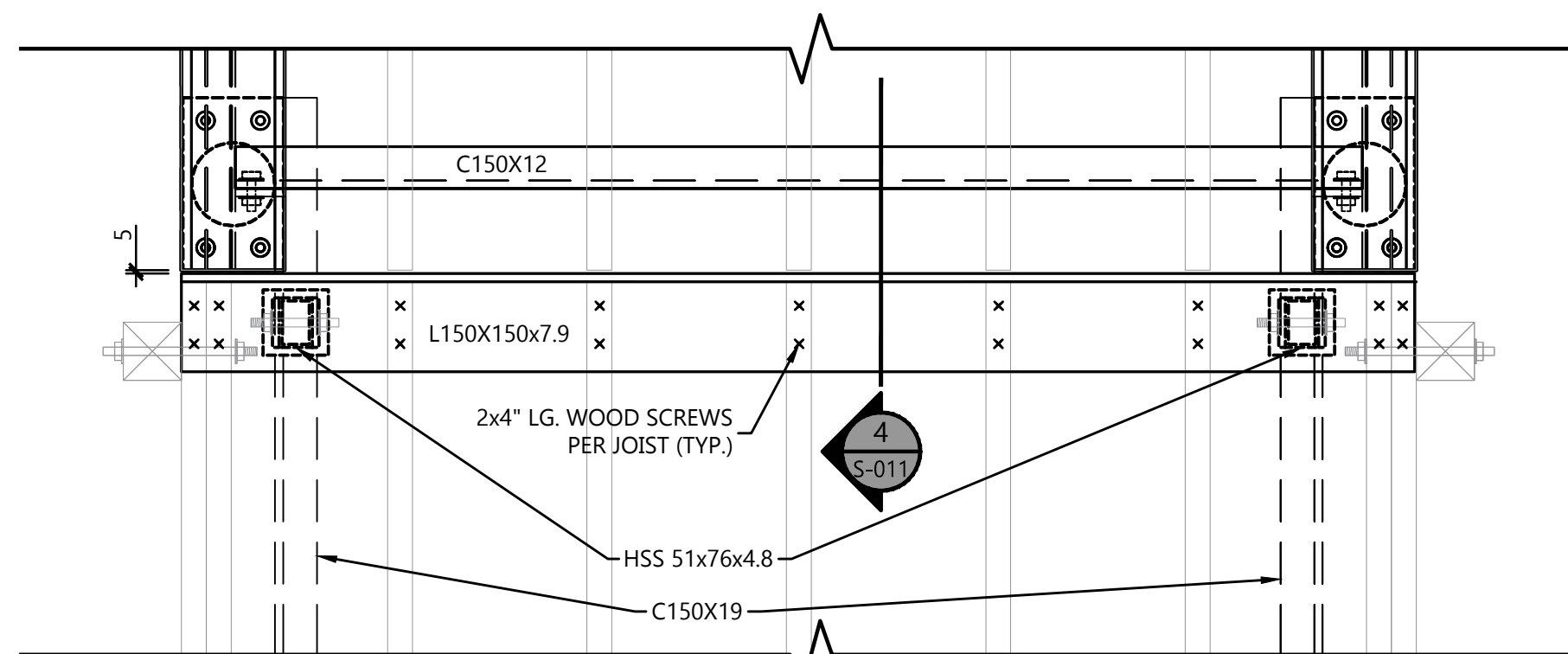
7 CONNECTION OF NEW BOARDWALK TO EXISTING PLATFORM
SCALE: N.T.S.



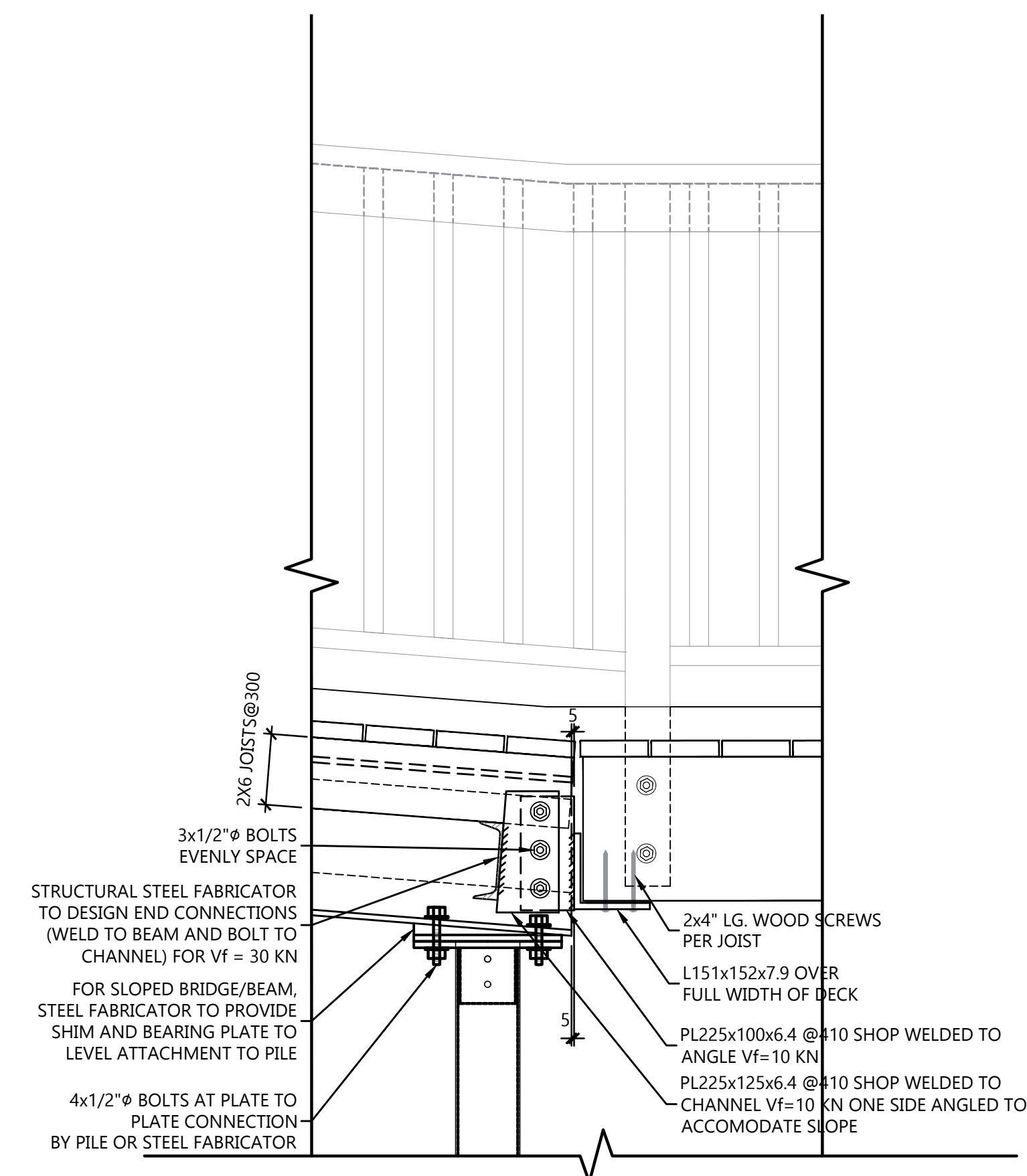
5 SECTION
SCALE: 1:10



4 BOARDWALK TO BRIDGE TRANSITION DETAIL - LEVEL BRIDGES ECTION
SCALE: 1:10



3 BOARDWALK TO BRIDGE TRANSITION PLAN DETAIL
SCALE: 1:10

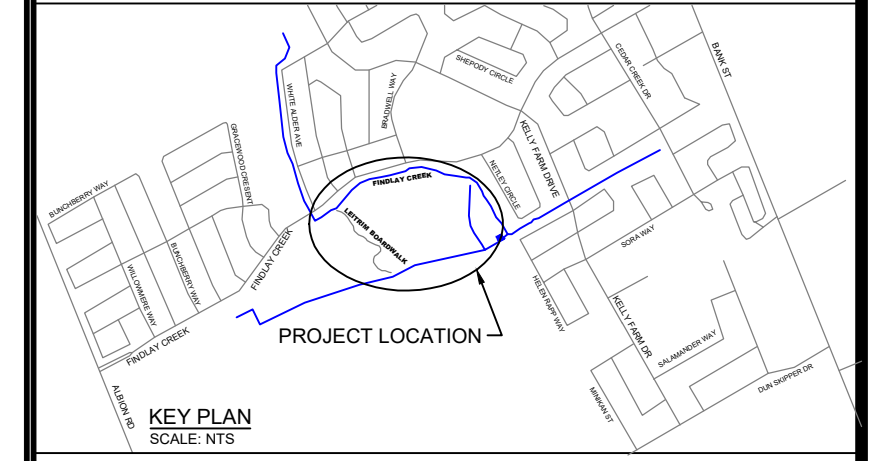


6 BOARDWALK TO BRIDGE TRANSITION DETAIL - SLOPED BRIDGE SECTION
SCALE: 1:10



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No.	YYYYMMDD	ISSUED BY	REVISION COMMENTS

SNCA - FINDLAY CREEK BOARDWALK OTTAWA, ONTARIO

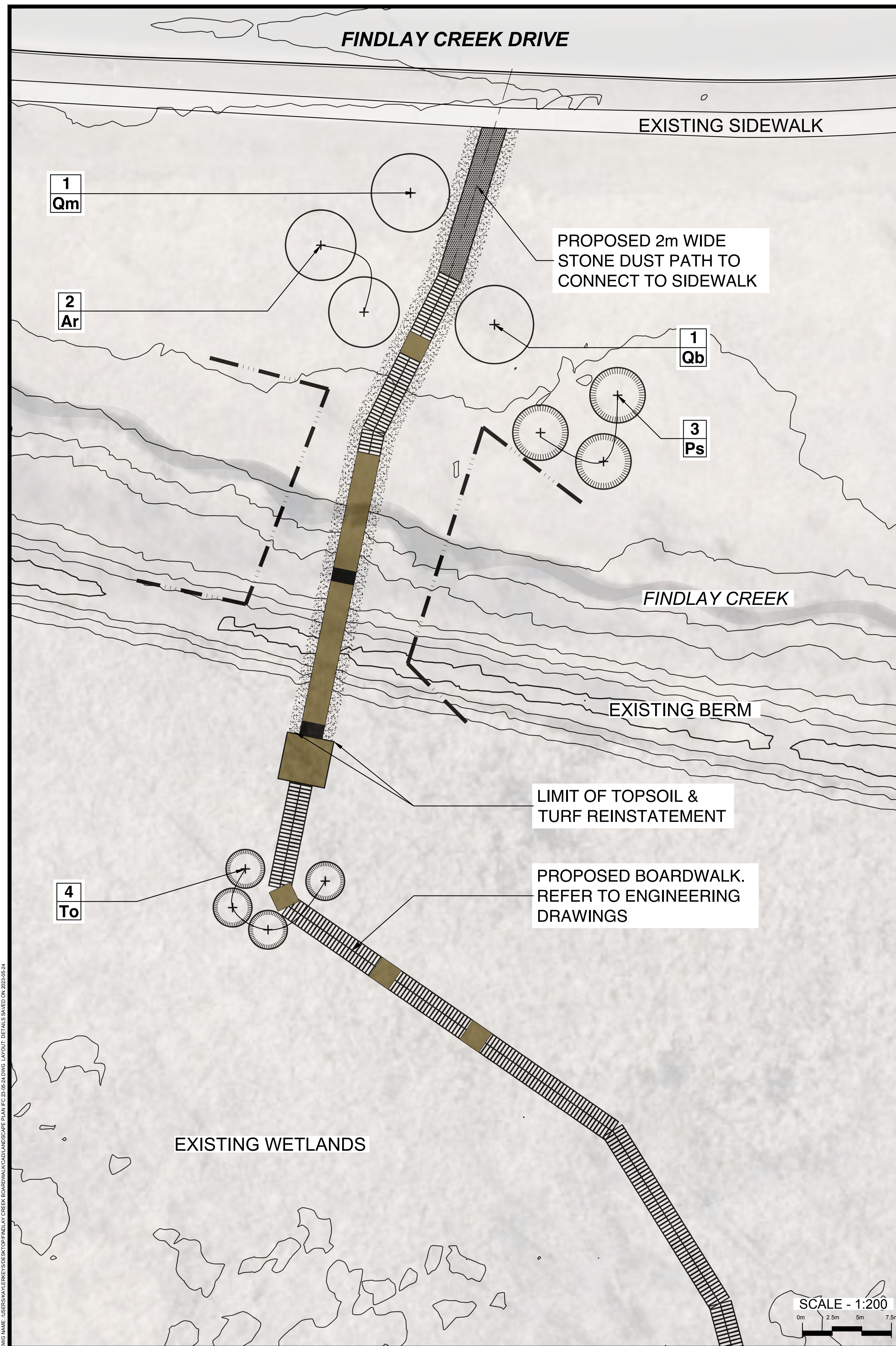
BRIDGE PLAN DETAILS, SECTIONS



DESIGNED: TP	PROJECT No.: 22-1042A
DRAFTED: YH	REVISION DATE: 2022-09-22
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S011

DRAWN: J. HALL; CHECKED: T. PLESNIK; DATE: 2023-05-24; PROJECT: SNCA - FINDLAY CREEK BOARDWALK; STRUCTURAL; JFC - MAY 24 2023 09:50; LAYOUT: S011; SCALE: N.T.S.; DATE: 2023-05-24



LEGEND

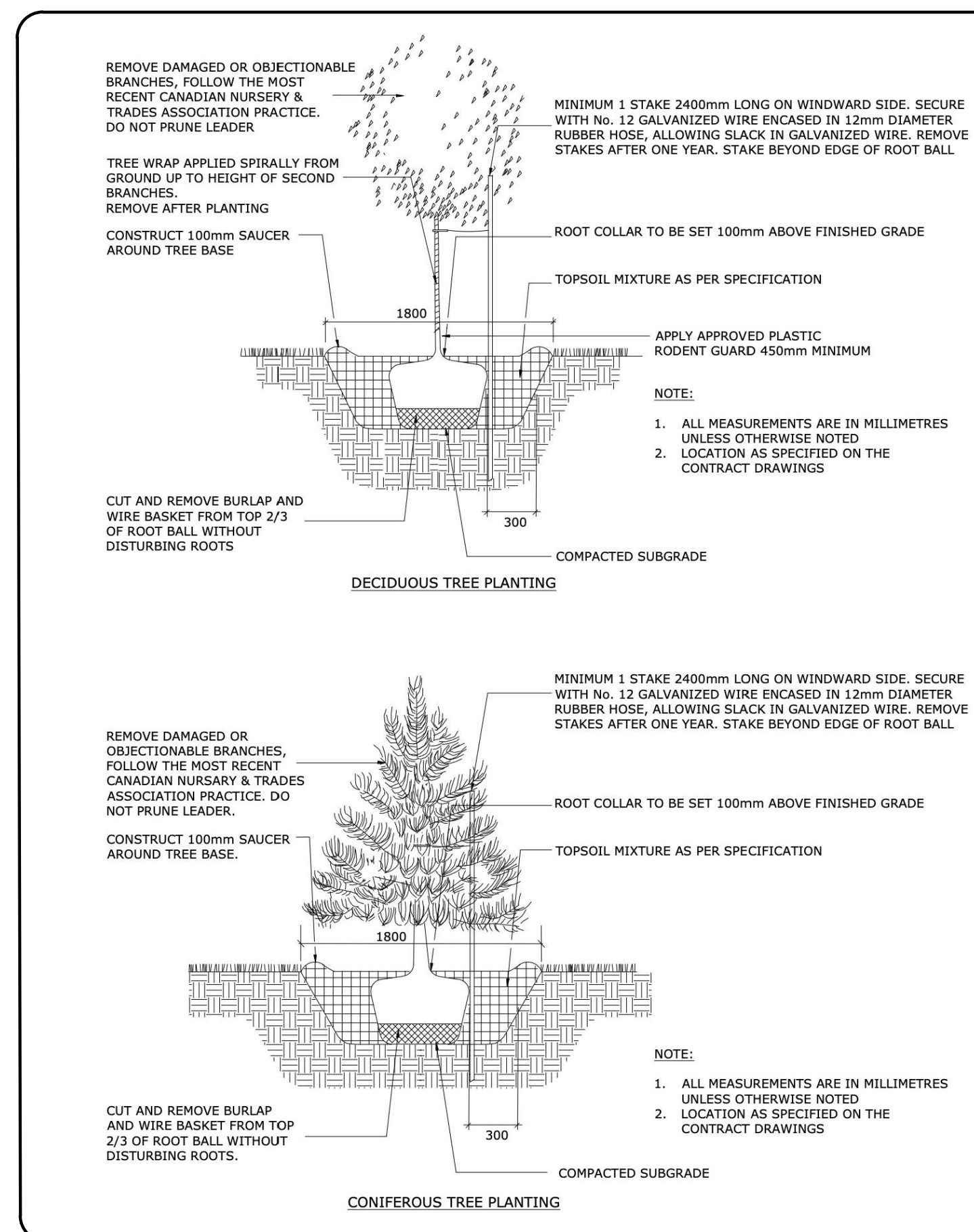
- PROPOSED DECIDUOUS TREE
REFER TO DETAIL 1
- PROPOSED CONIFEROUS TREE
REFER TO DETAIL 1
- TOPSOIL AND TURF REINSTATEMENT
- TREE PROTECTION FENCING
REFER TO DETAIL 2

PLANT LIST

KEY	QTY	BOTANICAL NAME	COMMON NAME	CAL/ HT.	CONDITION/REMARKS
DECIDUOUS TREES					
Ar	2	Acer rubrum	Red Maple	50 mm Cal	Wire Basket
Qb	1	Quercus bicolor	Swamp White Oak	50 mm Cal	Wire Basket
Qm	1	Quercus macrocarpa	Burr Oak	50 mm Cal	Wire Basket
CONIFEROUS TREES					
Ps	3	Pinus strobus	Eastern White Pine	200 cm ht.	Wire Basket
To	4	Thuja occidentalis	Eastern White Cedar	200 cm ht.	Wire Basket

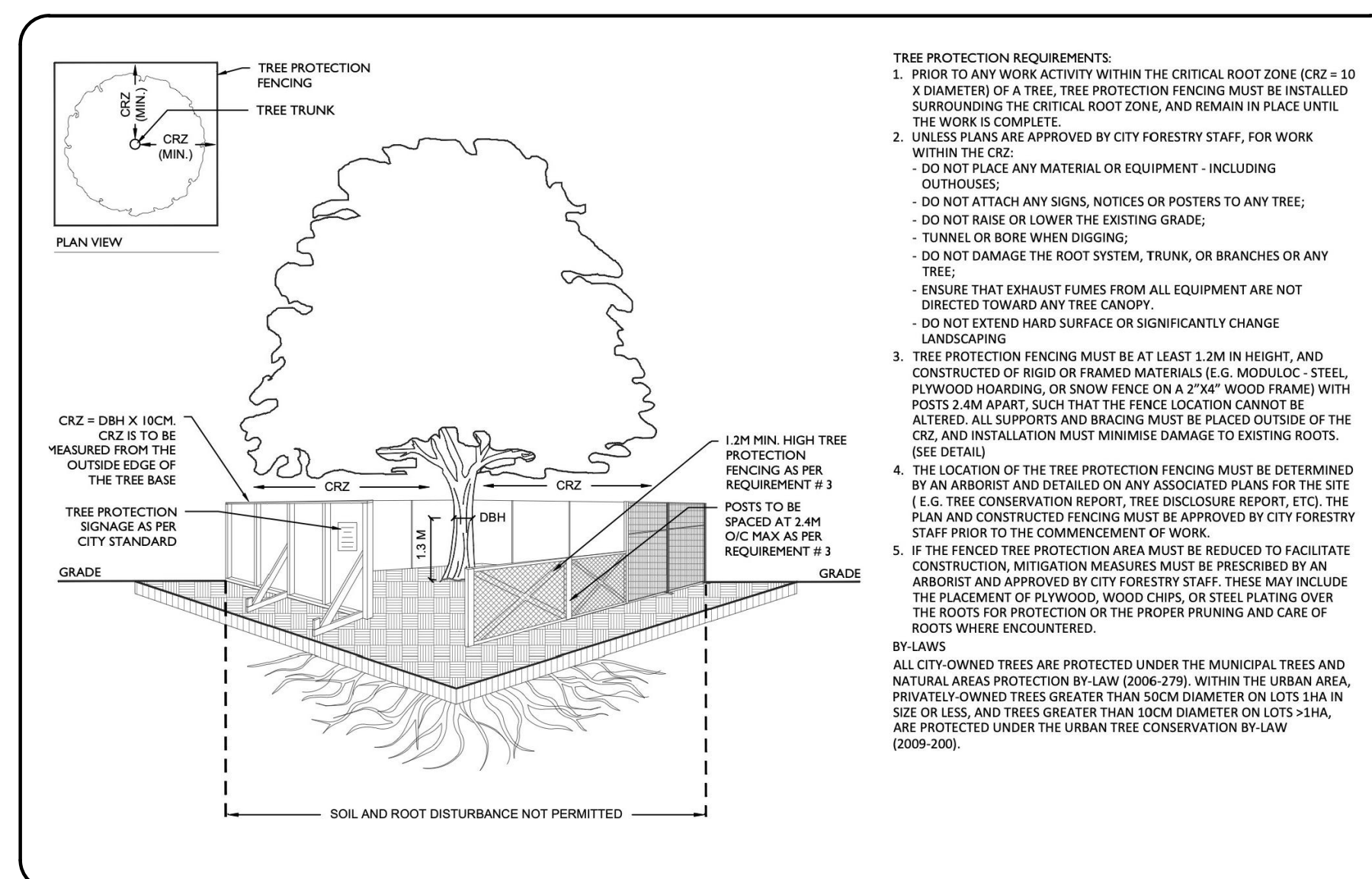
PLANTING NOTES

- THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING SERVICES / UTILITIES IN THE FIELD PRIOR TO ANY CONSTRUCTION.
- REFER TO ENGINEERING DRAWINGS FOR ALL REMOVALS.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN TREE PROTECTION FENCING AS NOTED ON THE DRAWINGS DURING CONSTRUCTION PHASE.
- ALL LAYOUT FOR PROPOSED PLANT MATERIAL TO BE STAKED BY THE CONTRACTOR AND VERIFIED AND APPROVED BY PROJECT MANAGER PRIOR TO ANY PLANTING.
- REPORT ANY DISCREPANCIES PRIOR TO COMMENCING WORK. NO RESPONSIBILITY IS BORNE BY THE OWNER AND PROJECT MANAGER FOR UNKNOWN SUBSURFACE CONDITIONS.
- REINSTATE ALL AREAS AND ITEMS THAT ARE DAMAGED ON SITE AND REPORT ANY ERRORS AND/OR OMISSIONS TO THE PROJECT MANAGER.
- WITH THE EXCEPTION OF THE CITY OF OTTAWA CONSTRUCTION SPECIFICATION & STANDARD DETAILS, THE ONTARIO PROVINCIAL STANDARDS (OPSD) & STANDARD SPECIFICATIONS (OPSD) SHALL APPLY.
- THIS DRAWING IS TO BE READ AND INTERPRETED IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- ALL PLANT MATERIAL SHALL BE NURSERY GROWN STOCK UNLESS OTHERWISE NOTED.
- DECIDUOUS TREES TO HAVE A MINIMUM 1800 CLEAR STEM ABOVE GRADE.
- ALL PLANT MATERIAL SHALL BE WARRANTIED FOR TWO YEARS FROM THE DATE OF PERFORMANCE ACCEPTANCE AS DETERMINED BY THE PROJECT MANAGER.
- ALL STEEL STAKING POSTS FOR TREES ARE TO BE REMOVED AFTER ONE GROWING SEASON UNLESS OTHERWISE DIRECTED BY THE PROJECT MANAGER.
- ANY PROPOSED PLANT MATERIAL SUBSTITUTIONS SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, HABIT, FLOWER, LEAF, COLOUR AND CULTURE AND ONLY AFTER WRITTEN APPROVAL FROM THE PROJECT MANAGER.



1 TREE PLANTING

NOT TO SCALE



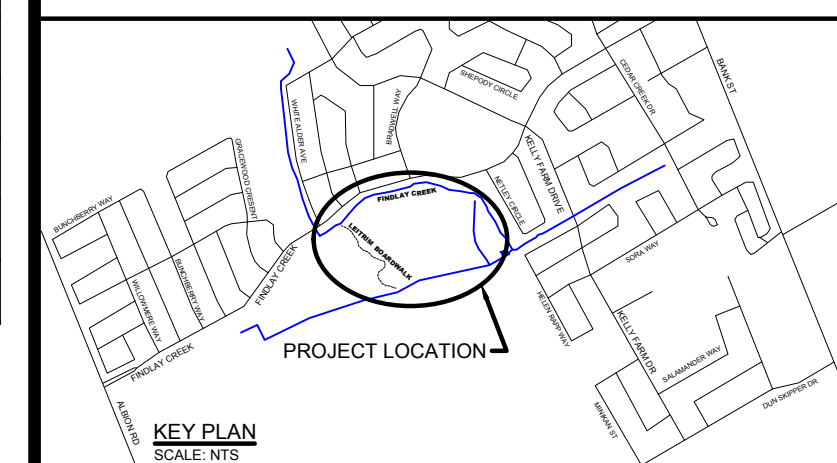
2 TREE PROTECTION FENCING

NOT TO SCALE



THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

DESIGN PROFESSIONAL'S SEAL OR SIGNATURE IS EFFECTIVE ONLY AS TO THAT VERSION OF THIS DOCUMENT AS ORIGINALLY PUBLISHED BY THE DESIGN PROFESSIONAL. THE DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR ANY SUBSEQUENT MODIFICATION, CORRUPTION, OR UNAUTHORIZED USE OF SUCH DOCUMENT. TO VERIFY THE VALIDITY OR APPLICABILITY OF THE SEAL OR SIGNATURE, CONTACT DESIGN PROFESSIONAL.



KEY PLAN
SCALE: NTS

GENERAL NOTES:

- ALL GENERAL SITE INFORMATION AND CONDITIONS ARE COMPILED FROM CONSULTANT'S FIELD NOTES AND PLANS PROVIDED BY THE OWNER.
- REPORT ANY DISCREPANCIES PRIOR TO COMMENCING WORK. NO RESPONSIBILITY IS BORNE BY THE CONSULTANTS FOR UNKNOWN UTILITIES OR SUBSURFACE CONDITIONS.
- CHECK AND VERIFY ALL DIMENSIONS ON SITE AND REPORT ANY ERRORS AND/OR OMISSIONS TO THE PROJECT MANAGER.
- REINSTATE ALL AREAS AND ITEMS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES TO THE SATISFACTION OF THE PROJECT MANAGER.
- INDIVIDUAL UTILITY AGENCIES MUST BE CONTACTED TO VERIFY AND LOCATE ALL PUBLIC AND PRIVATE UTILITIES. MARK ON SITE AND RETAIN CLEARANCE DOCUMENTATION.
- THE DRAWINGS AND DETAILS ARE IN PART DIAGRAMMATIC AND INTENDED TO CONVEY THE DESIGN.
- THE CONTRACTOR IS TO COORDINATE ACCESS, TRAFFIC CONTROL AND PROTECT THE GENERAL PUBLIC AND USERS OF THE SITE WITH APPROPRIATE CONTROL, FENCING AND SUPERVISION THROUGHOUT THE CONSTRUCTION PERIOD. TO THE SATISFACTION OF THE FACILITY MANAGER AND THE PROJECT MANAGER.

No.	DATE	BY	REVISION COMMENTS
1	2022-11-11	KC	ISSUED FOR 90% REVIEW
2	2023-03-16	KC	ISSUED FOR 100% REVIEW
3	2023-03-31	KC	ISSUED FOR TENDER
4	2023-05-24	KC	ISSUED FOR CONSTRUCTION

No.	DATE	BY	REVISION COMMENTS



FINDLAY CREEK BOARDWALK EXTENSION OTTAWA, ONTARIO LANDSCAPE PLAN

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CHECKED: K. CERVENY	
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