

Parks Canada Agency

Northern Ontario Field Unit

Agence Parcs Canada

Unité de Gestion de Nord de l'Ontario

TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT

PROJECT # 1433
PUKASKWA NATIONAL PARK

MARCH 2017

Canada

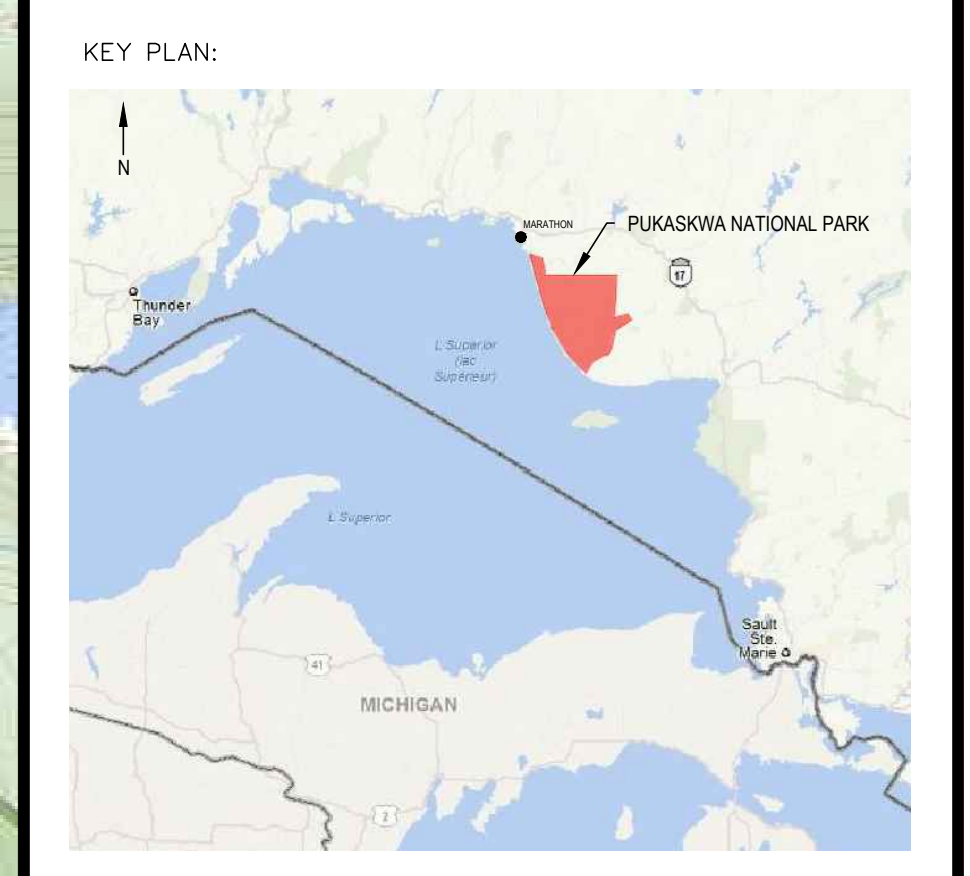
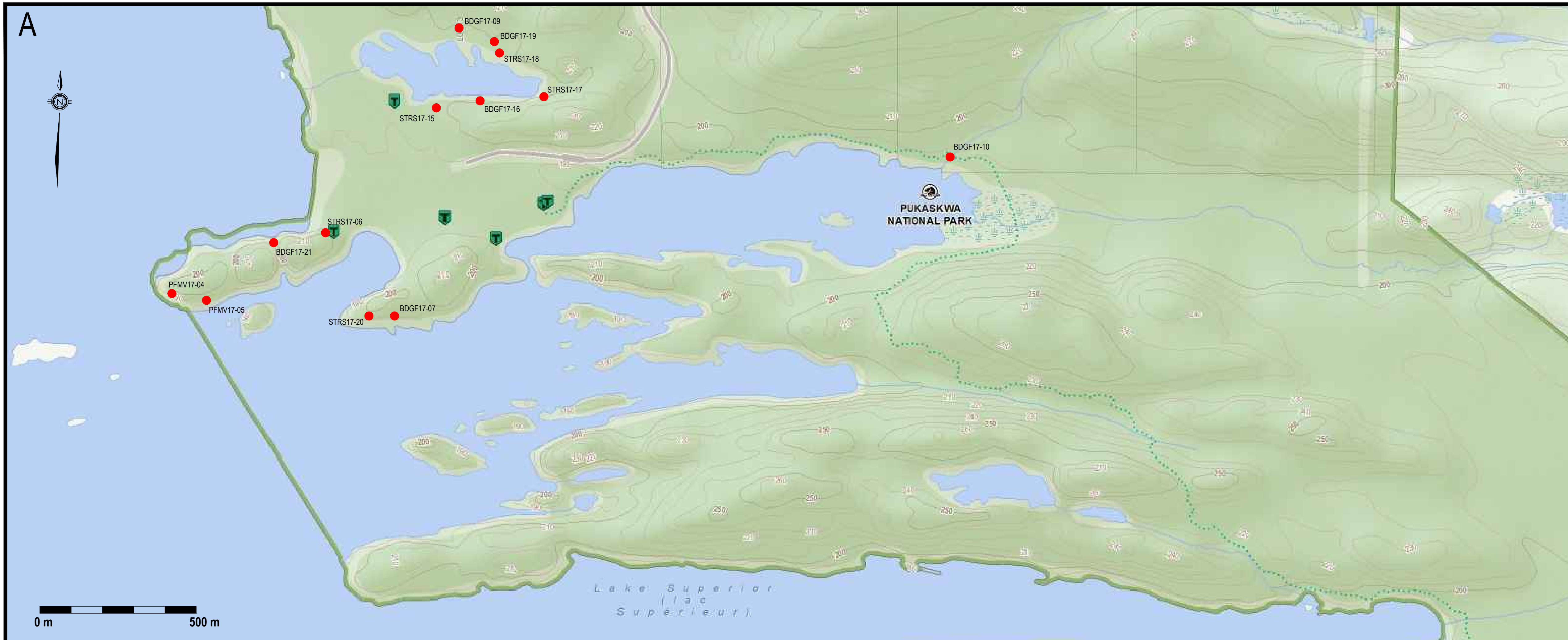
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WSP PROJECT # (151-06165-07)



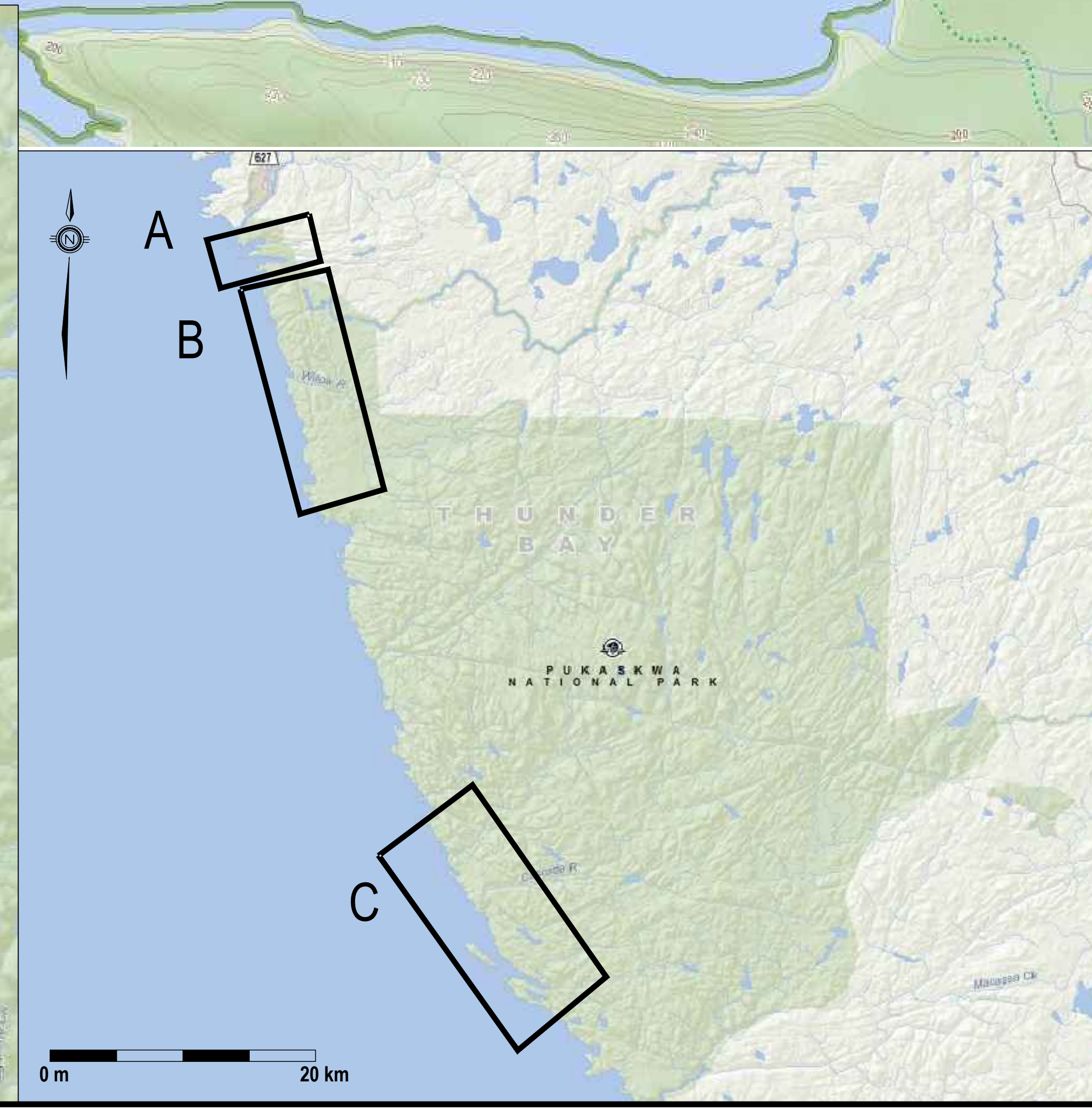
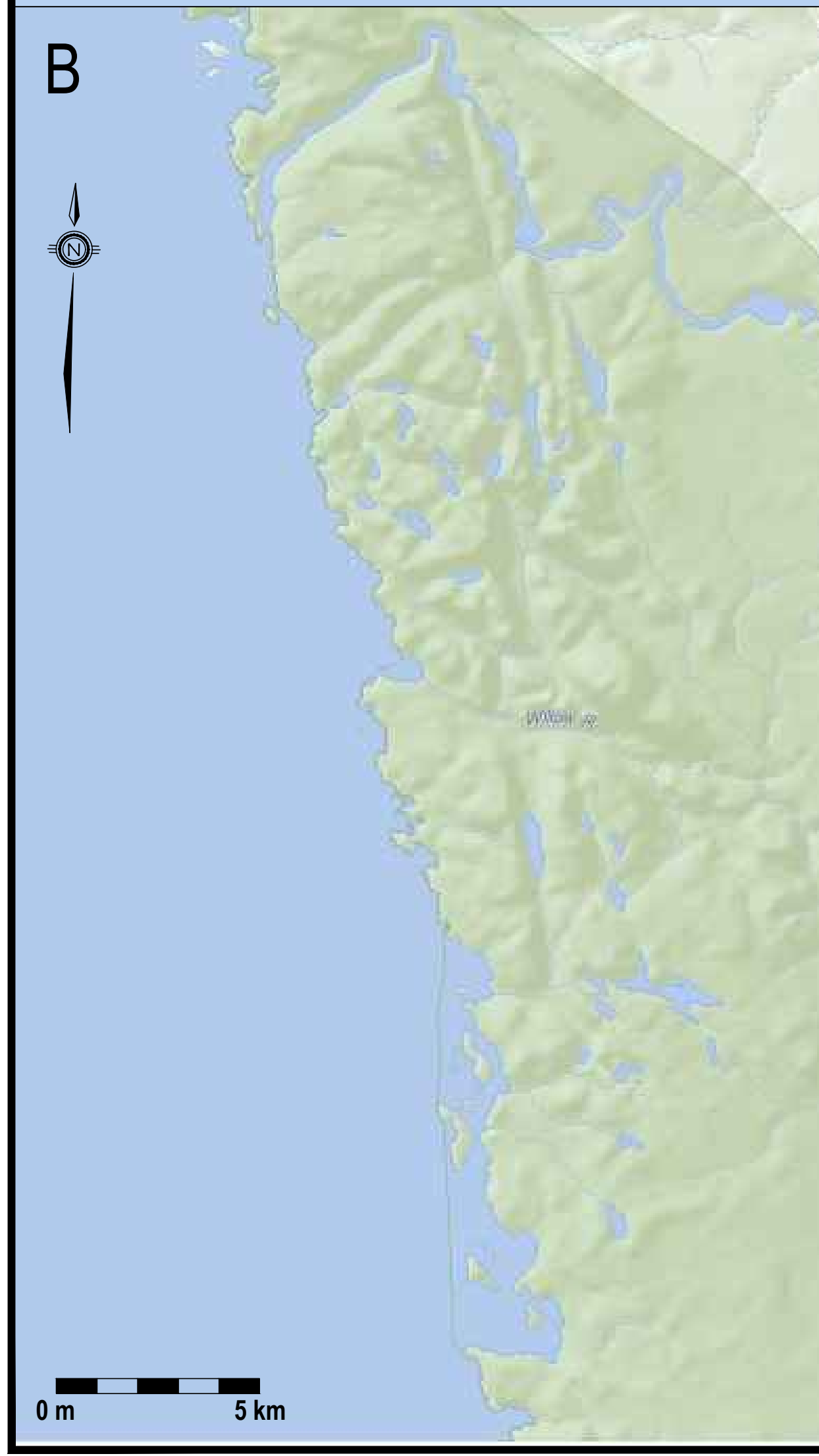
Legends:

NEW CONSTRUCTION

- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN



No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
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Consultant's Name / Nom de l'expert-conseil: **WSP**

Eng. Stamp / Sceau de l'ingénieur: **D. M. SPACEK**

Project Title / Titre du projet: **1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT**

Drawing title / Titre du dessin: **KEY PLAN**

Designed by / Concept par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: --	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / No du projet: 1433	Scale / Echelle: N.T.S
Drawing Set No. / No de la série du dessin: -	
Sheet No. / No de la feuille: C1.1	

GENERAL

- DRAWINGS TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS.
- THE SCOPE OF WORK INDICATED ON THE DRAWINGS IS TO SERVE AS A GUIDE ONLY. ALL WORK INDICATED ON THE DRAWINGS SHALL BE COMPLETED REGARDLESS OF INCLUSION IN THE GENERAL SCOPE OF WORK.
- NOTIFY DEPARTMENTAL REPRESENTATIVE IF ANY DISCREPANCIES ARE FOUND BETWEEN THESE NOTES AND THE SPECIFICATIONS.
- IN CASE OF CONFLICTING INFORMATION BETWEEN CONTRACT DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT SHALL GOVERN OR CONTRACTOR MUST SEEK CLARIFICATION IN WRITING FROM DEPARTMENTAL REPRESENTATIVE.
- ALL WORK IS TO CONFORM TO LATEST EDITION OF THE NATIONAL BUILDING CODE OF CANADA AND WITH ALL APPLICABLE CODES AND BYLAWS.
- BEFORE PROCEEDING WITH WORK, VERIFY DIMENSIONS SHOWN ON THE DRAWINGS AND REPORT DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE. REFER TO OTHER DRAWINGS FOR LOCATIONS AND DIMENSIONING OF APPURTENANCES NOT SHOWN ON THE STRUCTURE DRAWINGS. OBTAIN THE DEPARTMENTAL REPRESENTATIVES' APPROVAL BEFORE MODIFYING WORK TO SUIT EXISTING CONDITIONS WHICH ARE NOT SHOWN ON THE DRAWINGS.
- ALL DIMENSIONS GIVEN ON STRUCTURAL DRAWINGS ARE IN METRIC SYSTEM UNLESS OTHERWISE NOTED. DO NOT SCALE DRAWINGS.
- WHERE EXISTING STAIR HANDRAILS ARE TO REMAIN, THE CONTRACTOR SHALL CONFIRM THE HEIGHT OF THE RAILING IS BETWEEN 865 MM AND 965 MM PRIOR TO INSTALLING GUARDS. NOTIFY THE DEPARTMENTAL REPRESENTATIVE OR DELEGATE IF THE HEIGHTS ARE OUTSIDE THIS RANGE.
- THE CONTRACTOR SHALL FACILITATE ALL MATERIAL TESTING REQUIRED BY THE DEPARTMENTAL REPRESENTATIVE. CONTRACTOR TO ORGANIZE AND COORDINATE AS REQUESTED.
- THE PROJECT IS LOCATED IN A HISTORIC NATIONAL PARK OF CANADA, THEREFORE STANDARDS FOR ENVIRONMENTAL PROTECTION AND FOR VISUAL AESTHETICS OF FINAL PRODUCT SHALL BE OF THE HIGHEST QUALITY STANDARD. CONTRACT LIMITS SHALL BE STRICTLY ADHERED TO AND CONTRACTOR IS TO TAKE SPECIAL CARE TO MINIMIZE DAMAGE, DISRUPTION, AND PROTECT EXISTING FEATURES OF THE NATIONAL PARK ECOSYSTEM. THE DEPARTMENTAL REPRESENTATIVE OR DELEGATE IS TO BE NOTIFIED IMMEDIATELY IF ANY NATURAL OR CULTURAL RESOURCES OF INTEREST ARE LOCATED DURING CONSTRUCTION.
- ALL WORK IS TO BE CONDUCTED IN ACCORDANCE WITH THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT.
- THE CONTRACTOR SHALL FOLLOW THE RISK MANAGEMENT PLAN (RMP) PUT IN-PLACE BY THE DEPARTMENTAL REPRESENTATIVE. THIS IS AN ACTIVE PLAN AND MAY CHANGE DURING CONSTRUCTION BASED ON THE INCLUSION/EXCLUSION OF RISKS.
- ALL STRUCTURES SHALL BE IN CONFORMANCE WITH THE FOLLOWING DESIGN STANDARDS:
 - ONTARIO BUILDING CODE 2012 (OBC)
 - NATIONAL BUILDING CODE OF CANADA 2010 (NBCC)
 - CANADIAN HIGHWAY BRIDGE DESIGN CODE 2014 (CHBDC)
 - CAN/CSA 086-14 ENGINEERING DESIGN IN WOOD
 - CAN/CSA A23.3-14 DESIGN OF CONCRETE STRUCTURES
- ALL CONTRACTOR SUBMITTALS SHALL BE DONE IN S.I. UNITS (METRIC) AND REFERENCE THE NOMINAL IMPERIAL MEASUREMENTS (I.E. 2X4).
- THE CONTRACTOR SHALL SUBMIT A PROJECT SPECIFIC HEALTH AND SAFETY PLAN FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL ONLY PROCEED WITH CONSTRUCTION UPON ACCEPTANCE OF THE PROJECT SPECIFIC HEALTH AND SAFETY PLAN BY THE DEPARTMENTAL REPRESENTATIVE/DELEGATE.
- THE CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN FOR STRUCTURES 17-01 AND 17-10 FOR REVIEW BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO DEMOLITION. THE CONTRACTOR SHALL ONLY PROCEED WITH CONSTRUCTION UPON ACCEPTANCE OF THE DEMOLITION PLAN BY THE DEPARTMENTAL REPRESENTATIVE/DELEGATE.
- THE CONTRACTOR SHALL SUBMIT A TEMPORARY CROSSING PLAN FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION FOR ALL STRUCTURES WHERE PUBLIC ACCESS WILL BE IMPACTED DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PEDESTRIAN TRAFFIC SAFE MEANS OF CROSSING DURING CONSTRUCTION AS THE TRAILS WILL BE OPEN TO THE PUBLIC. TEMPORARY CROSSING FOR PARK USERS MUST BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- DESIGN OF ANY TEMPORARY CROSSINGS OR WORKS MUST BE CARRIED OUT BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO. THE ENGINEER SHALL BE RETAINED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL SUBMIT A FIELD CUTTINGS MITIGATION PLAN TO THE DEPARTMENTAL REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION. THIS PLAN SHALL TAKE THE NECESSARY MEASURES TO ENSURE THAT NO DUST FROM THE CUTTING OF PRESSURE TREATED WOOD ENTERS THE ENVIRONMENT. THIS ALSO APPLIES FOR THE END TREATMENT OF WOOD MEMBERS.
- THE CONTRACTOR SHALL MAINTAIN THE WORKSITE IN A TIDY CONDITION AND FREE FROM THE ACCUMULATION OF WASTE PRODUCTS AND DEBRIS.
- USE DRAWINGS THAT ARE "ISSUED FOR CONSTRUCTION" AND WHICH ARE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO. REFER TO THE DEPARTMENTAL REPRESENTATIVE TO ENSURE THE MOST CURRENT REVISIONS ARE USED.
- ALL SECTIONS, DETAILS AND STATEMENTS NOTED AS "TYPICAL" APPLY TO LIKE/SIMILAR CONDITIONS IN THE STRUCTURE.
- DRAWINGS SHOW THE COMPLETED STRUCTURE ONLY AND DO NOT SHOW TEMPORARY WORKS (IF REQUIRED).
- THE CONSULTANT AND THE DEPARTMENTAL REPRESENTATIVE, AT TIMES, WILL CONDUCT INSPECTIONS OF THE WORK TO ENSURE GENERAL CONFORMANCE WITH THE DESIGN DRAWINGS. THIS DOES NOT REPLACE THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT AND MAINTAIN A QUALITY CONTROL PROGRAM.
- THE CONTRACTOR SHALL PROVIDE FOUR (4) COMPLETE SETS OF AS-CONSTRUCTED RECORD DRAWINGS. ALL CHANGES ARE TO BE SHOWN IN RED AND MUST BE CLEAN AND LEGIBLE.
- NO BURNING IS PERMITTED.
- THE CONTRACTOR SHALL ERECT SILT FENCING ALONG ALL WATER COURSES DURING CONSTRUCTION. WHERE DISTURBANCE IS CAUSED ON SLOPES (I.E. ABUTMENTS, ETC.) THE CONTRACTOR SHALL LEAVE THE SILT FENCING IN-PLACE ONCE THE WORK HAS BEEN COMPLETED TO ALLOW FOR THE REHABILITATION OF VEGETATION.
- THE CONTRACTOR SHALL SUBMIT A SEDIMENT AND EROSION CONTROL PLAN PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ALL SHOP DRAWINGS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
- THE CONTRACTOR SHALL REFER TO AND ADHERE BY THE PARKS CANADA (PCA) GUIDELINES FOR THE USE, HANDLING AND DISPOSAL OF TREATED WOOD.
- THE CONTRACTOR SHALL REFER TO AND ADHERE BY THE PARKS CANADA (PCA) BEST MANAGEMENT PRACTICES FOR TRAIL MAINTENANCE AND MODIFICATION.
- ALL WORK WITHIN A 30 METER DISTANCE OF A WATER WAY SHALL ADHERE TO THE FISHERIES ACT. THE CONTRACTOR SHALL SUBMIT A WORK PLAN FOR ALL WORK WITHIN A 30 METER DISTANCE TO A WATERWAY.
- THE USE OF SEED IS PROHIBITED.
- ALL WORK SHALL CONFORM TO THE ENVIRONMENTAL BASIC IMPACT ANALYSIS (BIA). REFER TO THE CONTRACT SPECIFICATIONS.

MATERIALS

- ALL PROPOSED UPGRADES SHALL BE CONSTRUCTED WITH NEW MATERIAL ONLY. EXISTING WOODEN COMPONENTS ARE TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IN STRICT ACCORDANCE WITH APPLICABLE STANDARDS.
- MATERIAL USED FOR CONSTRUCTION SHALL BE FREE OF ANY DEFECTS.
- THE CONTRACTOR SHALL REPLACE AT THEIR COST ANY DAMAGED WOOD AS A RESULT OF CONSTRUCTION THAT IS NOT SPECIFIED FOR REMOVAL.
- LUMBER TO CSA 141-05 & NLGA-2004 STANDARD GRADING RULES FOR CANADIAN LUMBER. ALL WOOD SHALL BEAR A CERTIFICATION/GRADE STAMP.
- PRESERVED WOOD TO CSA -080 SERIES-15.
- PRESERVED WOOD SHALL BE TREATED WITH AMMONIACAL COPPER QUATERNARY (ACQ). ANY OTHER PROPOSED TREATMENTS ARE SUBJECT TO APPROVAL BY THE DEPARTMENTAL REPRESENTATIVE OR DELEGATE.
- ALL PRESERVATIVE TREATED WOOD SPF NO.2 OR BETTER UNLESS OTHERWISE NOTED.
- ALL PRESERVATIVE TREATED WOOD SHALL BE SHOP CUT AS MUCH AS POSSIBLE. WHERE FIELD CUTS ARE REQUIRED, TOUCH UP WITH CLEAR-COLOURED SURFACE WOOD PRESERVATIVE TO ALL CUTS. THE CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO ENSURE THAT NO DUST FROM THE CUTTING OF WOODEN COMPONENTS, OR CHEMICALS FROM END-TREATMENT ENTERS THE ENVIRONMENT.
- NO OVERCUTTING OF WOOD COMPONENTS ARE PERMITTED.
- FOR ALL BURIED, PERMANENT GROUND CONTACT, OR CONTINUALLY WET WOOD COMPONENTS, USE HEMLOCK (NON-PRESSURE TREATED) BLOCKING UNDER PRESSURE TREATED COMPONENTS.
- ADHESIVES USE LOCTITE PL PREMIUM CONSTRUCTION ADHESIVE OR APPROVED ALTERNATE TO CSA O122-16
- ALL HARDWARE TO BE GALVANIZED (600G/M2) UNLESS OTHERWISE NOTED.
- ALL HARDWARE AND FASTENERS SHALL BE AMMONIACAL COPPER QUATERNARY (ACQ) COMPATIBLE.
- ALL LAG BOLTS SHALL BE PROPERLY PRE-DRILLED.
- HOT-DIP GALVANIZING TO CSA G164-92.
- USE ONLY HOT DIPPED GALVANIZED NAILS AND SCREWS.
- NAILS AND SPIKES TO BE COMMON ROUND STEEL WIRE NAILS TO CSA B111-74 UNLESS NOTED OTHERWISE.
- ALL NAILS ARE TO BE HAND DRIVEN. REQUESTS FOR POWER DRIVEN NAILS MUST BE REVIEWED BY THE CONSULTANT PRIOR TO USE.
- ALL WOOD MEMBERS TO BE CONTINUOUS (NO SPLICING) UNLESS OTHERWISE NOTED.
- ALTERNATIVES MAY BE CONSIDERED. SUBMIT PROPOSAL IN WRITING FOR ALTERNATIVE PRODUCTS AND ALLOW FOR RESPONSE TIME OF 7 CALENDAR DAYS.
- THE CONTRACTOR SHALL ADJUST THE LOCATIONS OF THE HANDRAIL POSTS IN THE FIELD TO ALLOW FOR INSTALLATION OF SIMPSON DPT 77 HANDRAIL POST FASTENER. ENSURE A MAXIMUM POST SPACING (CENTRE TO CENTRE) OF 1.2 METERS IS MAINTAINED.
- SIMPSON DRT 77 SHALL BE INSTALLED ON ALL NEW AND EXISTING POSTS ACTING WITHIN A HANDRAIL SYSTEM. THIS IS REQUIRED ON ALL STRUCTURES.

REMOVALS

- ALL REMOVALS ARE TO BE CARRIED OUT WITH PRECAUTIONS FOR THE SAFETY OF THE WORKERS AND THE PARK USERS.
- DEMOLITION WORK SHALL BE CARRIED OUT WITHOUT CAUSING OVERSTRESS OR EXCESSIVE DEFLECTION TO ANY PART OF THE EXISTING WORK WHICH IS TO REMAIN. THE CONTRACTOR IS RESPONSIBLE TO MAKE GOOD ANY DAMAGE CAUSED DURING DEMOLITION.
- CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE CONSTRUCTION SITE DAILY.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL DISPOSAL/TIPPING FEES.
- THE CONTRACTOR SHALL DISPOSE OF CONSTRUCTION DEBRIS AT LEGALLY DESIGNATED SITES IN ACCORDANCE WITH APPLICABLE LAWS.
- THE REMOVAL OF STRUCTURE 17-01 AND 17-10 SHALL BE CONDUCTED WITH RESPECT TO THE SURROUNDING ENVIRONMENT. THE CONTRACTOR SHALL MAKE PROVISIONS SUCH THAT NO DEBRIS IS ALLOWED TO ENTER INTO THE WATERWAY DURING THE REMOVAL OF THESE STRUCTURES.

KEY PLAN:



Legends:

NEW CONSTRUCTION

- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
D	23MAR17	ISSUED FOR TENDER		D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION		D.SPACEK
B	12DEC16	99% REVIEW		D.SPACEK
A	18NOV16	66% REVIEW		D.SPACEK

Revision / Revision	
A	
B	

Detail number	A Numéro de détail
Sheet number	B Numéro de la feuille
Linear dimensions in millimetres	Dimensions linéaires en millimètres

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
<small>180 EAST STREET SUITE 200 SALLT SITE (NORTH ONTARIO) CANADA, P6A 3C8 TEL.: 705-842-3070 / FAX: 705-842-3532 / WWW.WSPGROUP.COM WSP: SP201-15-0001-001 (WSP# 151-02103-07)</small>	

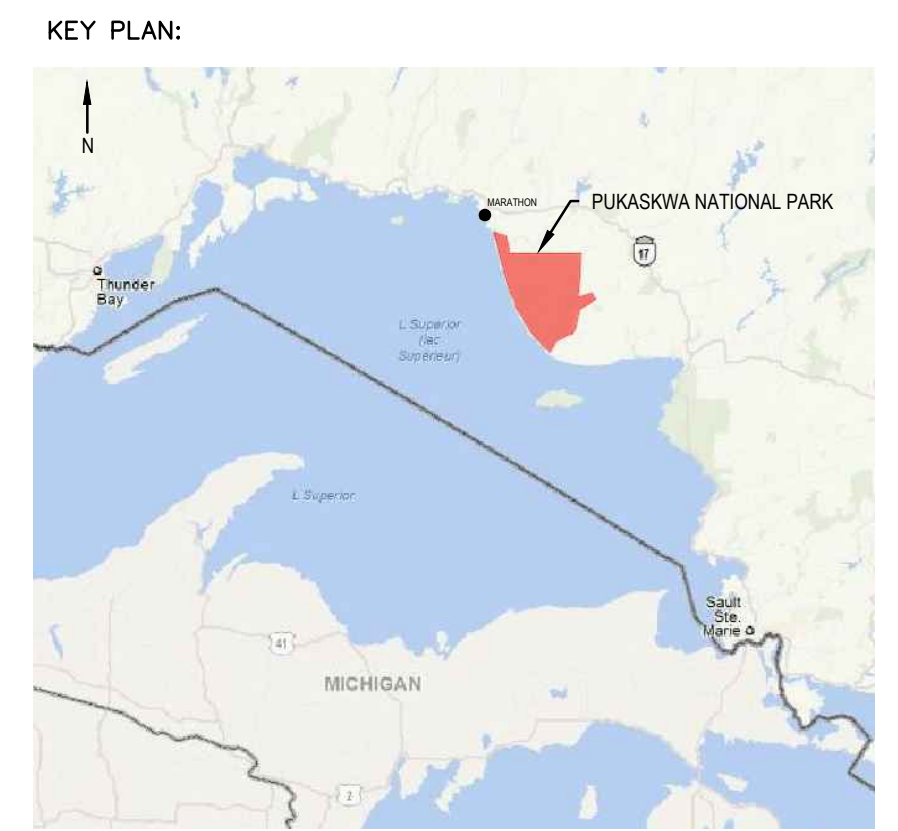
Project title/Titre du projet

1433 PUK NP
TRAIL BRIDGE STRUCTURE
REHABILITATION PROJECT

Drawing title/Titre du dessin

GENERAL NOTES

Designed by/Concept par	Date	
M.PILON / A.MALLETTE	MAR 23, 2017	
Drawn by/Dessiné par	Date	
--	MAR 23, 2017	
Checked by/Vérifié par	Date	
D.SPACEK	MAR 23, 2017	
Approved by/Approuvé par	Date	
D.SPACEK	MAR 23, 2017	
Project No./N° du projet	Scale/Échelle	Sheet No./N° de la feuille
1433	AS NOTED	C1.2
Drawing Set No./N° de série du dessin		
-		



Legends:

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Revision / Révision	
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Linear dimensions in millimetres / Dimensions linéaires en millimètres	
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B	Sheet number / B Numéro de la feuille

Consultant's Name / Nom de l'expert-conseil: **WSP**

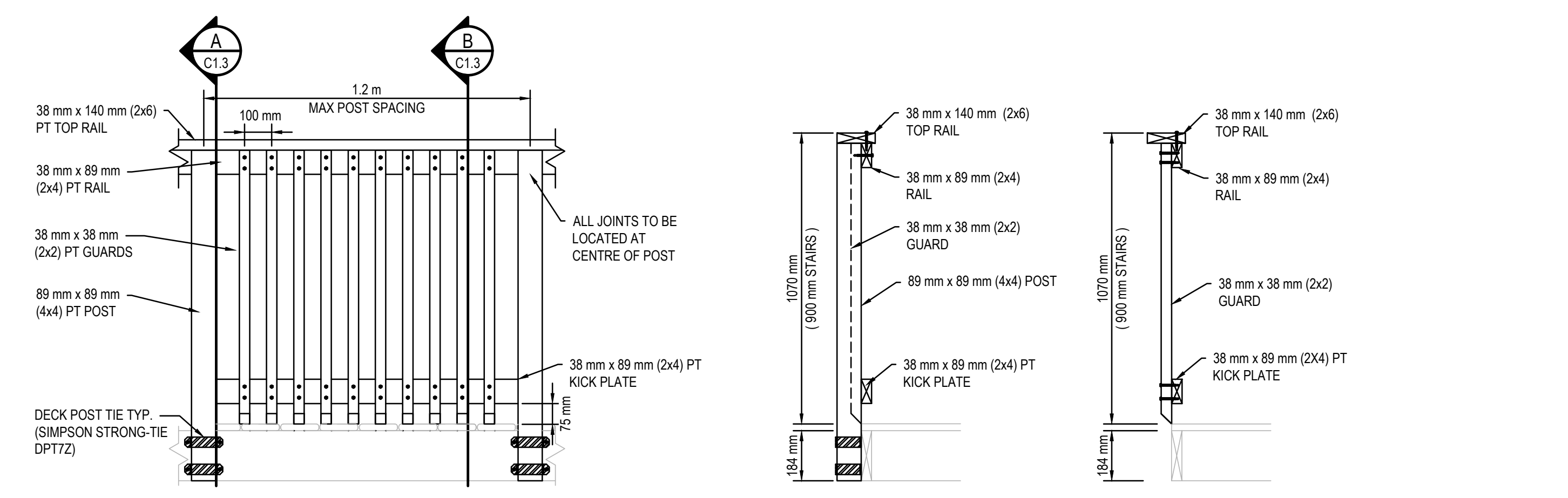
Eng. Stamp / Sceau de l'ingénieur: **D. SPACEK**

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WSP-SP-2011-15-0001-001 (WSP# 181-62165-07)

Project title / Titre du projet: **1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT**

Drawing title / Titre du dessin: **DETAILS SHEET 1 OF 2**

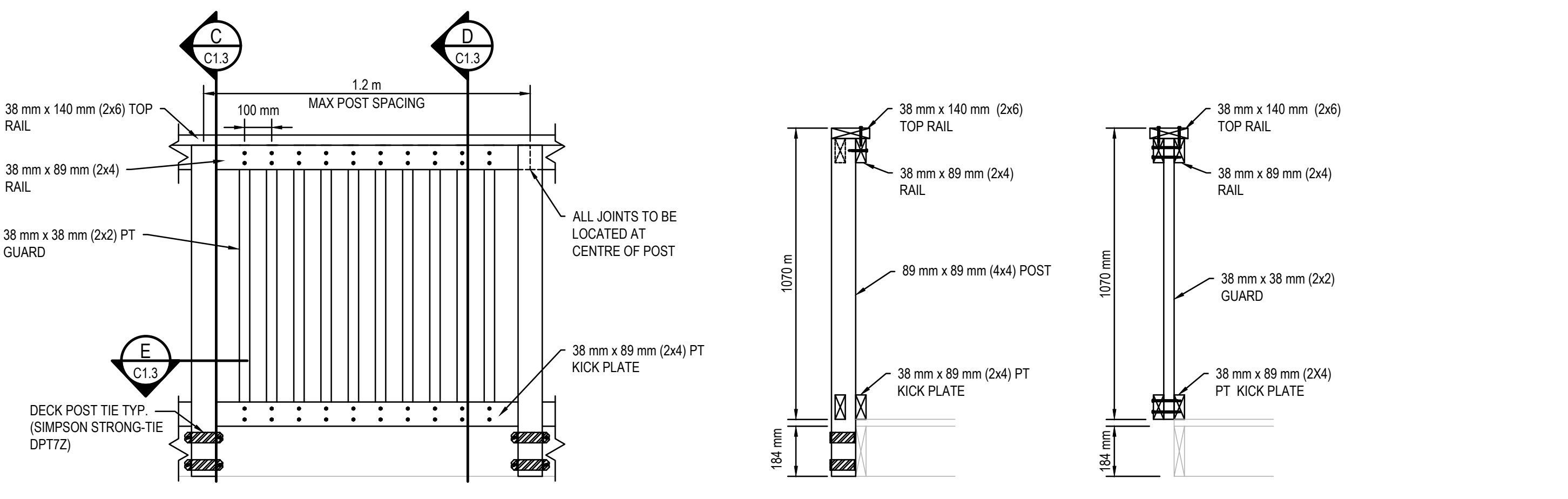
Designed by / Conçue par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: T.PILON	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / N° du projet: 1433	Scale / Echelle: AS NOTED
Drawing Set No. / N° de série du dessin: -	Sheet No. / N° de la feuille: C1.3



DETAIL 1 - TYPICAL STRUCTURE POST, RAILING, AND GUARD SYSTEM
SCALE: 1:15

NOTE: ALL FASTENERS TO BE #8 SCREWS (63 mm) - REFER TO SPECIFICATIONS

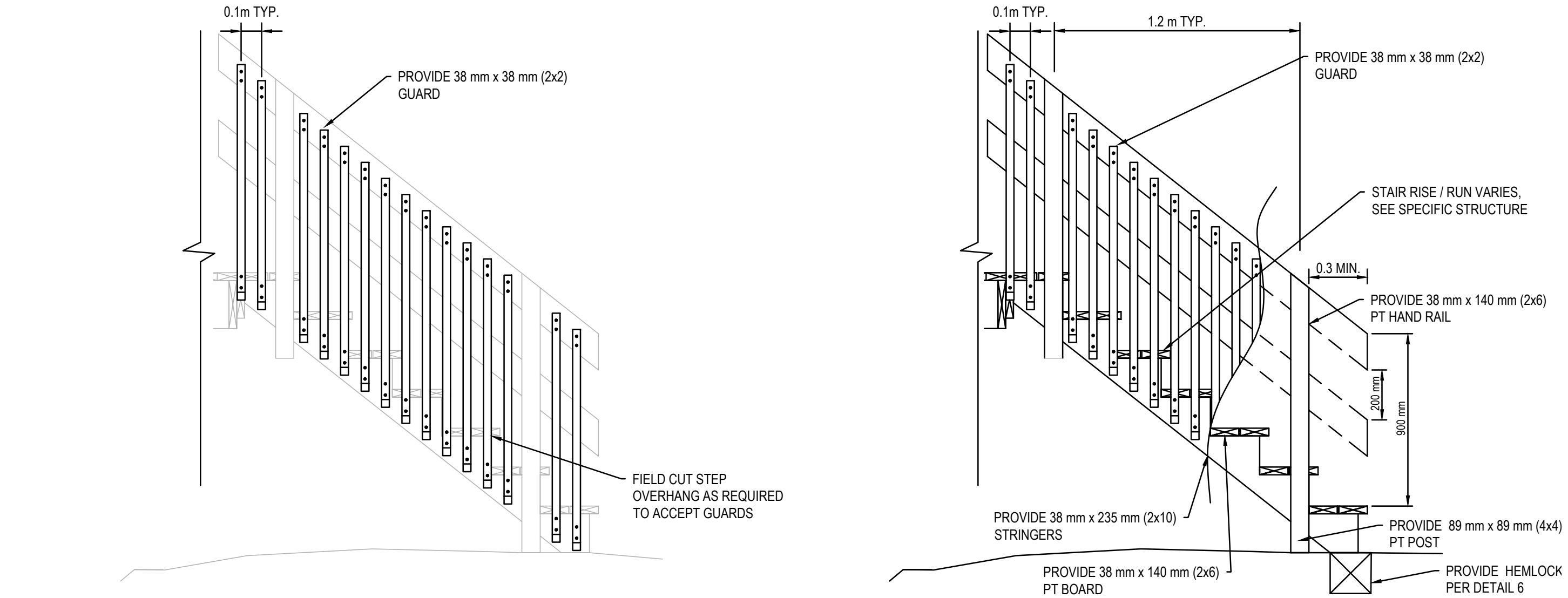
DETAIL 1 - TYPICAL STRUCTURE POST, RAILING, AND GUARD SYSTEM
SCALE: 1:15



DETAIL 2 - TYPICAL VIEWING PLATFORM POST, RAILING, AND GUARD SYSTEM
SCALE: 1:15

NOTE: ALL FASTENERS TO BE #8 SCREWS (63 mm) - REFER TO SPECIFICATIONS

DETAIL 2 - TYPICAL VIEWING PLATFORM POST, RAILING, AND GUARD SYSTEM
SCALE: 1:15



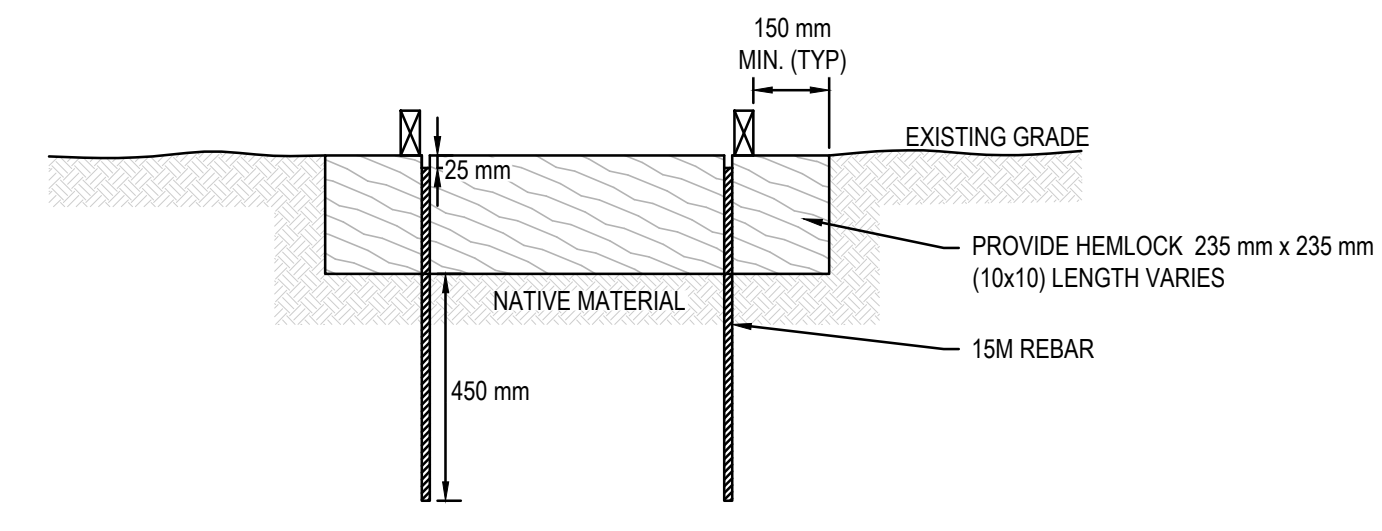
NOTE: ALTHOUGH NOT SHOWN FOR CLARITY, INSTALL SIMPSON POST SUPPORT BRACKETS ON ALL EXISTING AND PROPOSED RAILING POSTS.

DETAIL 3 - STAIRCASE GUARD DETAIL EXISTING STAIRS
SCALE: N.T.S.

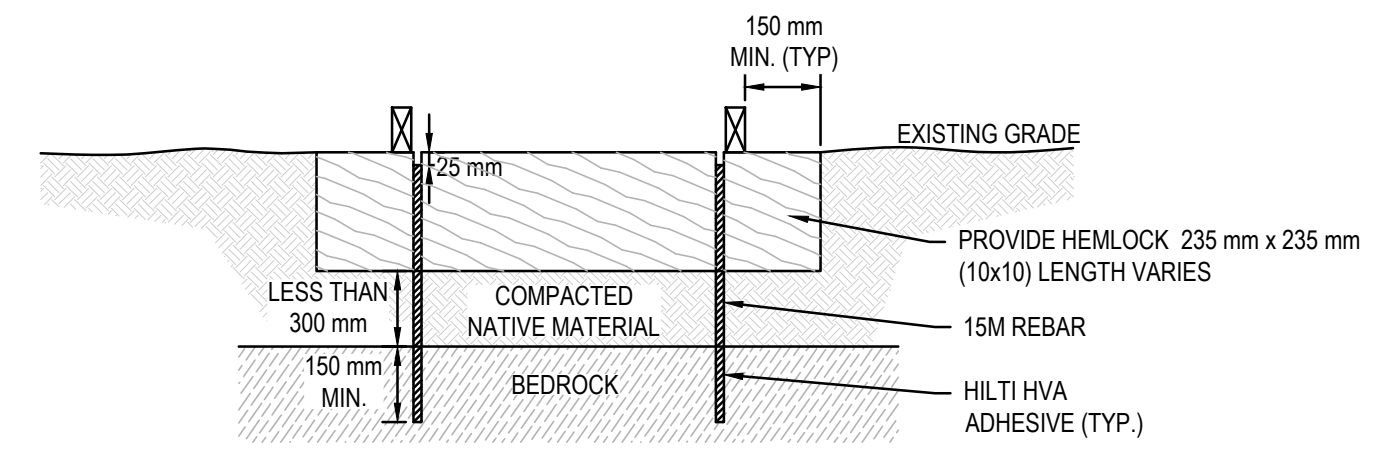
NOTE: MINIMUM WIDTH OF ALL NEW STAIRCASES (INSIDE OF GUARD TO INSIDE OF GUARD) SHALL BE 900 mm UNLESS OTHERWISE NOTED.

NOTE: ALTHOUGH NOT SHOWN FOR CLARITY, INSTALL SIMPSON POST SUPPORT BRACKETS ON ALL EXISTING AND PROPOSED RAILING POSTS.

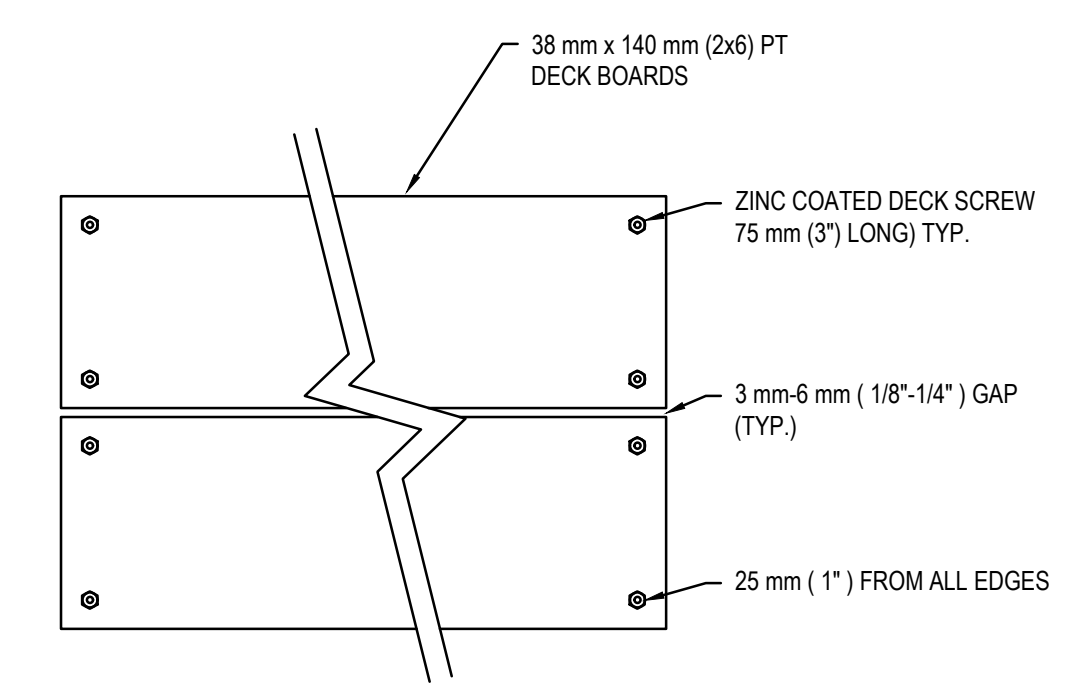
DETAIL 4 - STAIRCASE GUARD DETAIL PROPOSED STAIRS
SCALE: N.T.S.



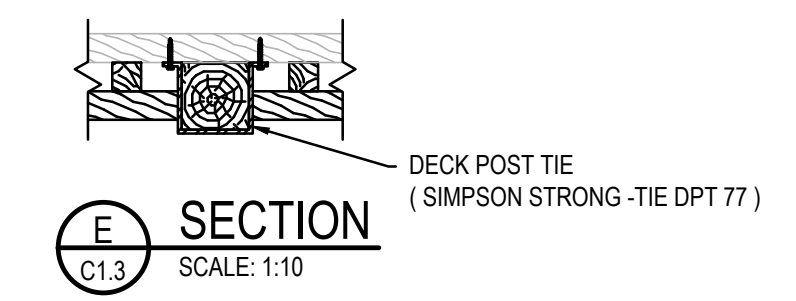
DETAIL 5 - HEMLOCK SLEEPER DETAIL - TYPE A
SCALE: 1:15



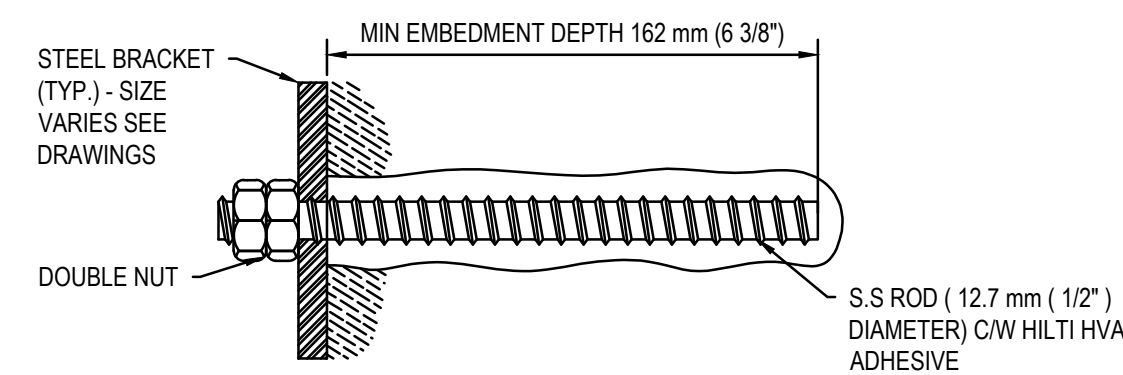
DETAIL 6 - HEMLOCK SLEEPER DETAIL - TYPE B
SCALE: 1:15



DETAIL 7 - DECK BOARD INSTALLATION
SCALE: N.T.S.



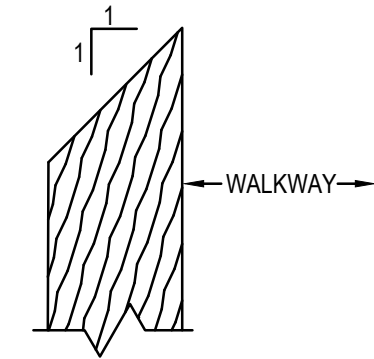
DETAIL 8 - DECK/RAILING POST TIE DETAIL
SCALE: N.T.S.



DETAIL 8 - BEDROCK CONNECTION DETAIL
SCALE: N.T.S.

NOT APPLICABLE

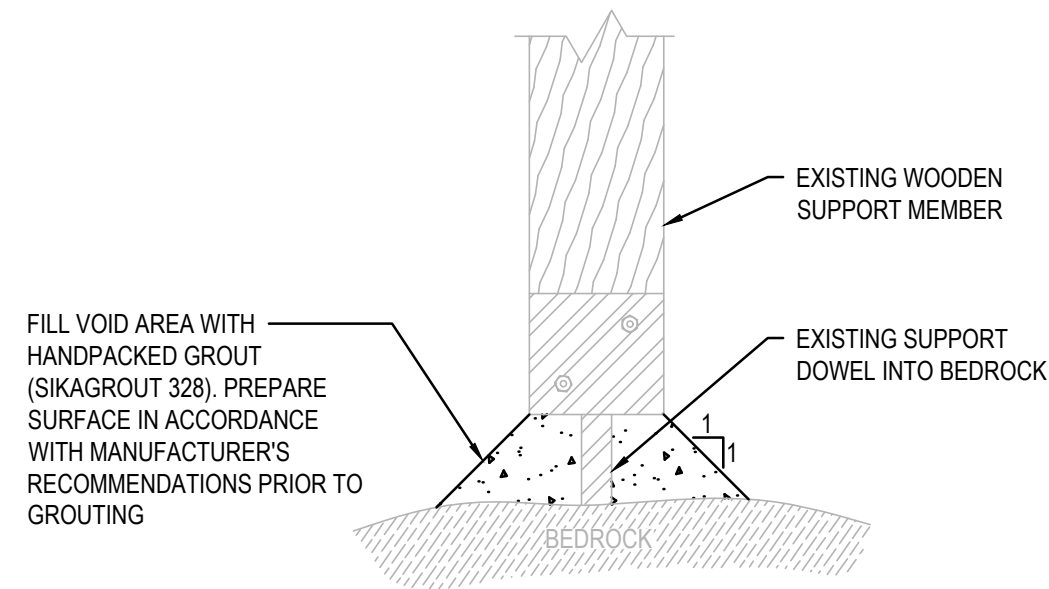
DETAIL 9 - DRAINAGE HOLE
SCALE: -



NOTE: ALL CUTS TO BE TREATED (REFER TO PAINT SPEC)
DETAIL 10 - RAILING POST TREATMENT
SCALE: 1:5

NOT APPLICABLE

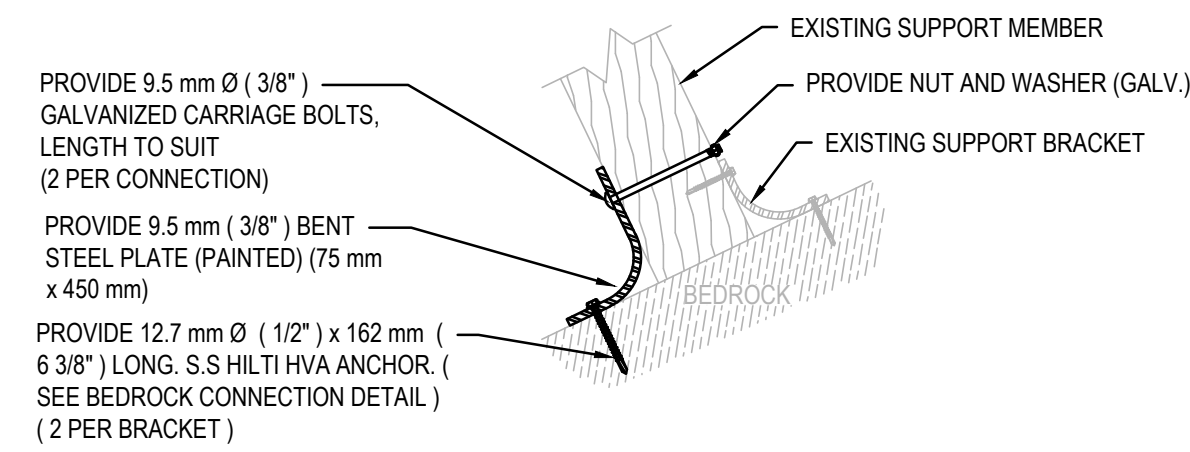
DETAIL 11 - COTTER PIN BENDING
SCALE: -



DETAIL 12 - GROUT BEARING SUPPORT
SCALE: 1:5

NOT APPLICABLE

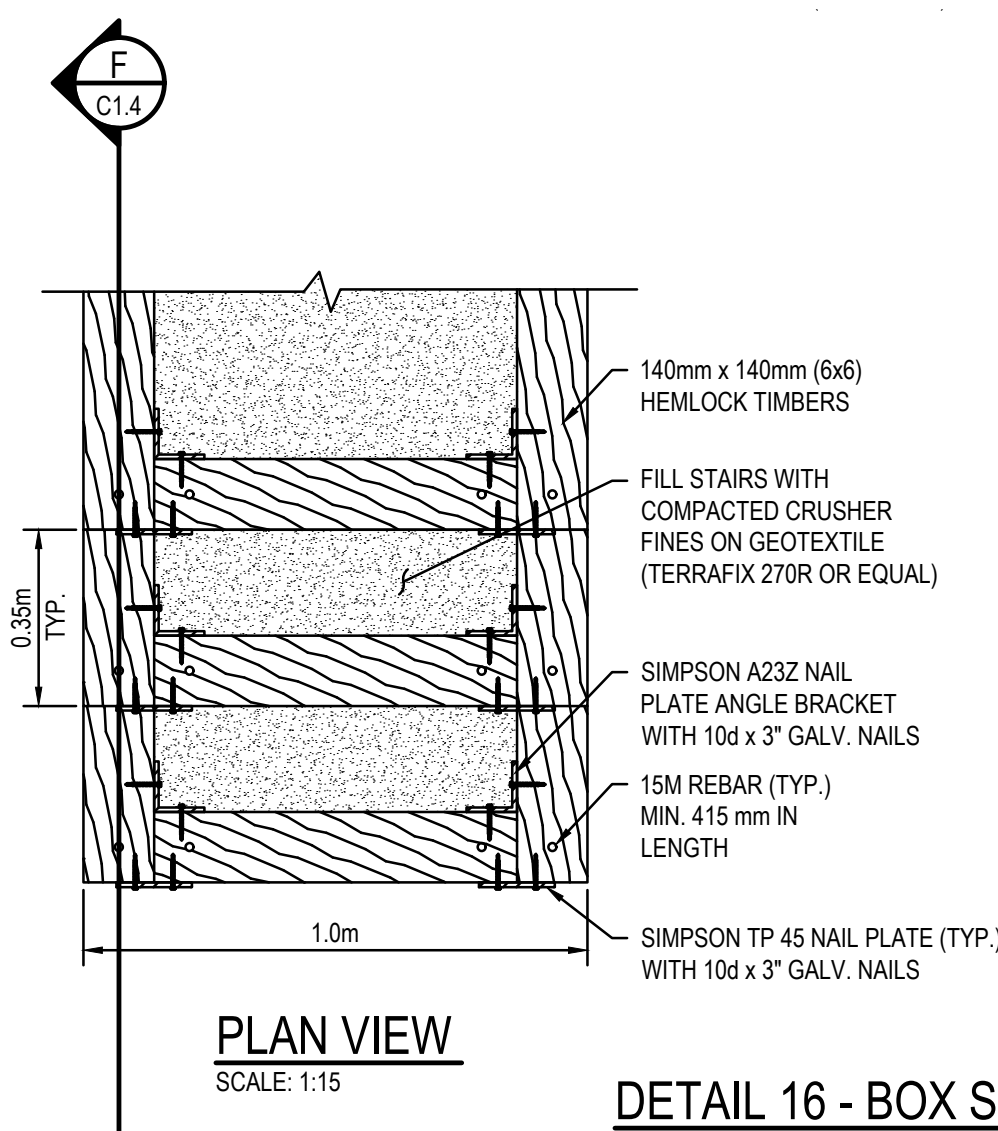
DETAIL 13 - GRATE PLATFORM BOLT DETAIL
SCALE: -



DETAIL 14 - POST SUPPORT BRACKET
SCALE: N.T.S.

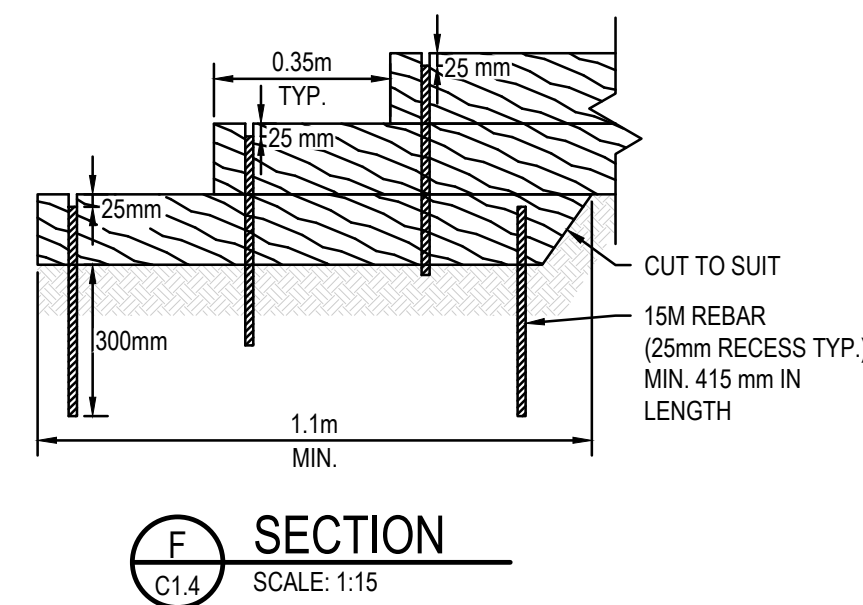
NOT APPLICABLE

DETAIL 15 - STAIR ANTI-SLIP TREATMENT
SCALE: 1:10



PLAN VIEW
SCALE: 1:15

DETAIL 16 - BOX STAIR DETAIL
SCALE: 1:15

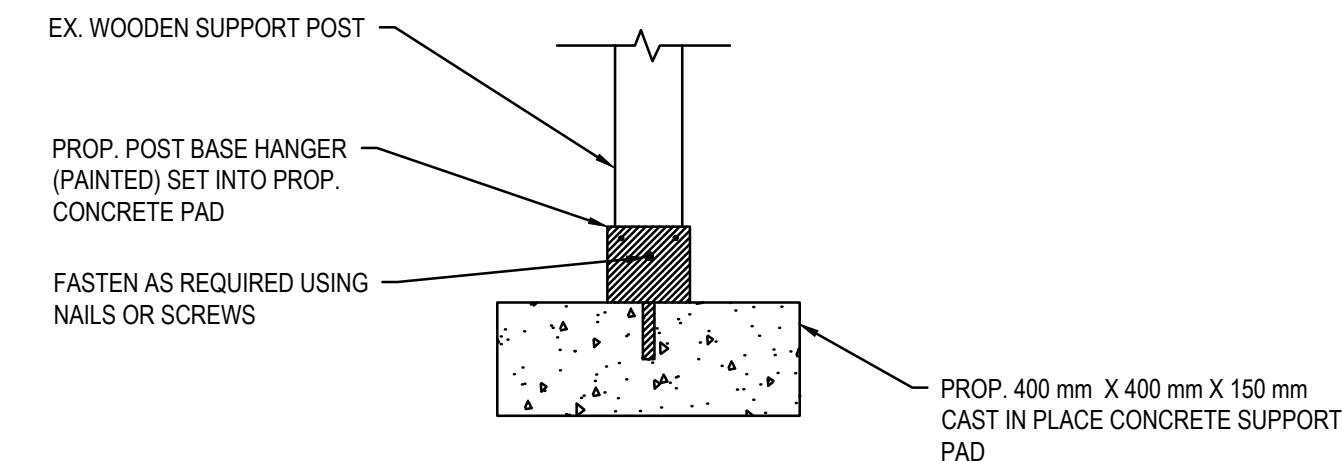


SECTION
SCALE: 1:15

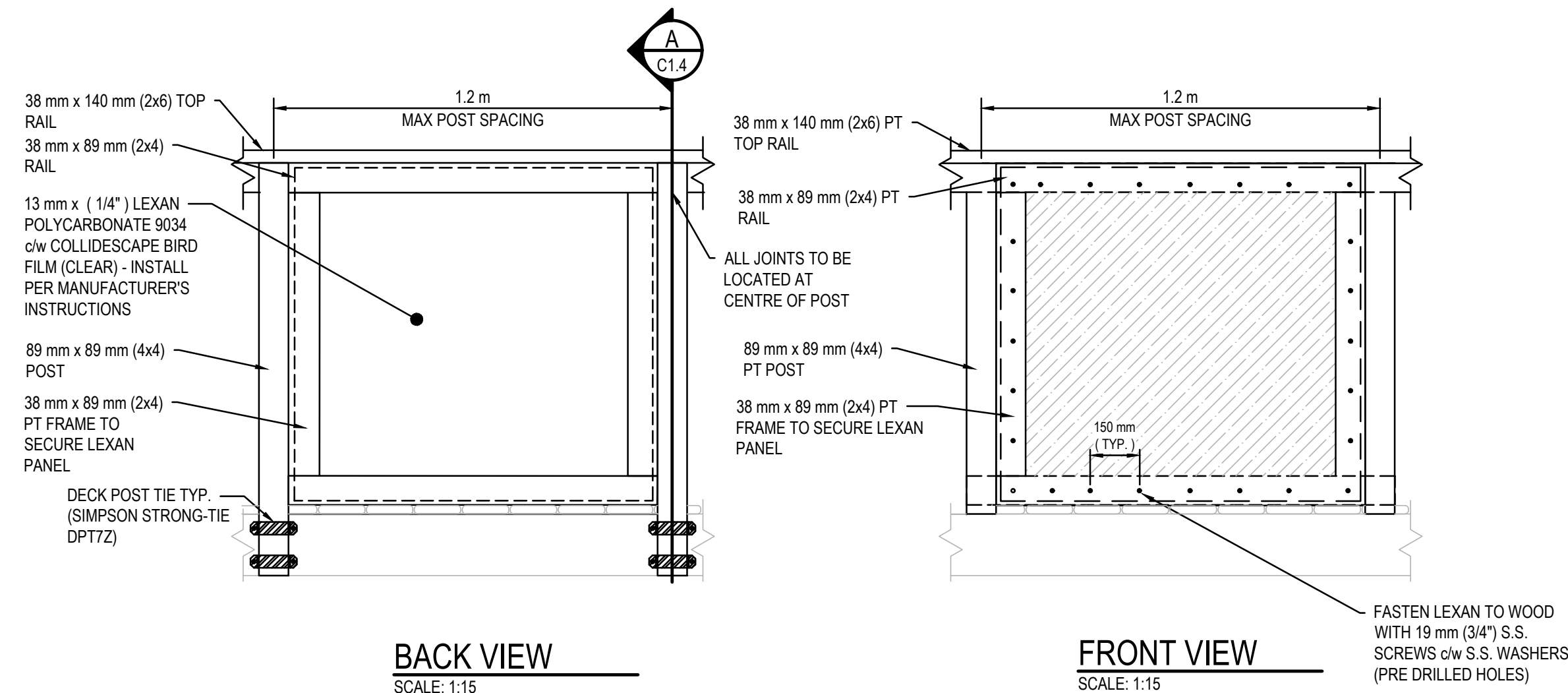
DETAIL 17 - BEAM LAMINATION DETAIL
SCALE: 1:5

10 ZINC COATED SCREWS
ALL LAMINATED BEAMS SHALL ALSO BE GLUED (REFER TO SPECIFICATIONS)
SPICES SHALL BE STAGGERED MIN. 1000 mm APART
SPICES ARE NOT PERMITTED WITHIN MIDDLE 1/3 OF SPAN.

⬇ Head of Screw
+ Tip of Screw



DETAIL 19 - CONC. SUPPORT PAD
SCALE: N.T.S.



BACK VIEW
SCALE: 1:15

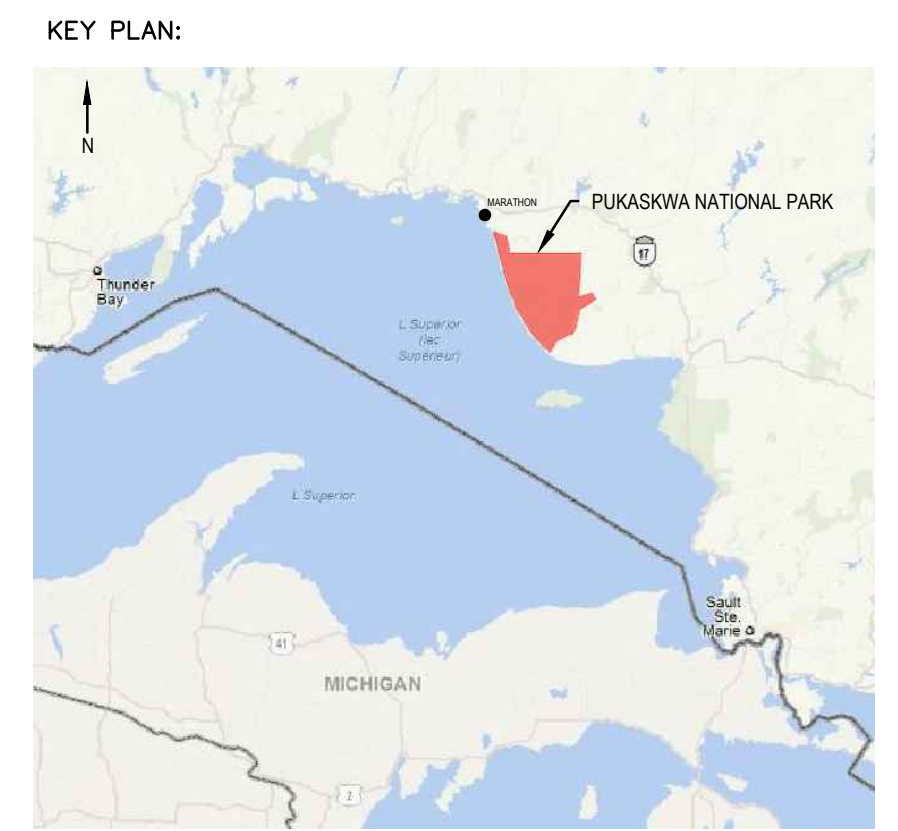
FRONT VIEW
SCALE: 1:15

SECTION
SCALE: 1:15

NOTE: ALL FASTENERS TO BE #8 SCREWS (63 mm) - REFER TO SPECIFICATIONS
DETAIL 18 - LEXAN STRUCTURE RAILING AND GUARD
SCALE: 1:15

NOT APPLICABLE

DETAIL 20 - WIRE TIE CONNECTION
SCALE: -



- Legends:
- NEW CONSTRUCTION**
- PROPOSED / TO BE PROVIDED
 - EXISTING / TO REMAIN
- REMOVALS**
- EXISTING / TO BE REMOVED
 - EXISTING / TO REMAIN

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACK
B	12DEC16	99% REVIEW	VARIES	D.SPACK
A	18NOV16	66% REVIEW	VARIES	D.SPACK

Revision / Révision	
A	Detail number / A Numéro de détail
B	Sheet number / B Numéro de la feuille
Linear dimensions in millimetres / Dimensions linéaires en millimètres	

Consultant's Name / Nom de l'expert-conseil: **WSP**

Eng. Stamp / Sceau de l'ingénieur: **D. M. SPACK**

186 EAST STREET
SUITE 100
SALT SPRING, ONTARIO, CANADA, P9A 3C8
TEL: 705-842-3070 / FAX: 705-842-3532 / WWW.WSPGROUP.COM
WSP-SPR-15-0001-001 (WSP# 151-0210-07)

Project title / Titre du projet:
**1433 PUK NP
TRAIL BRIDGE STRUCTURE
REHABILITATION PROJECT**

Drawing title / Titre du dessin:
**DETAILS
SHEET 2 OF 2**

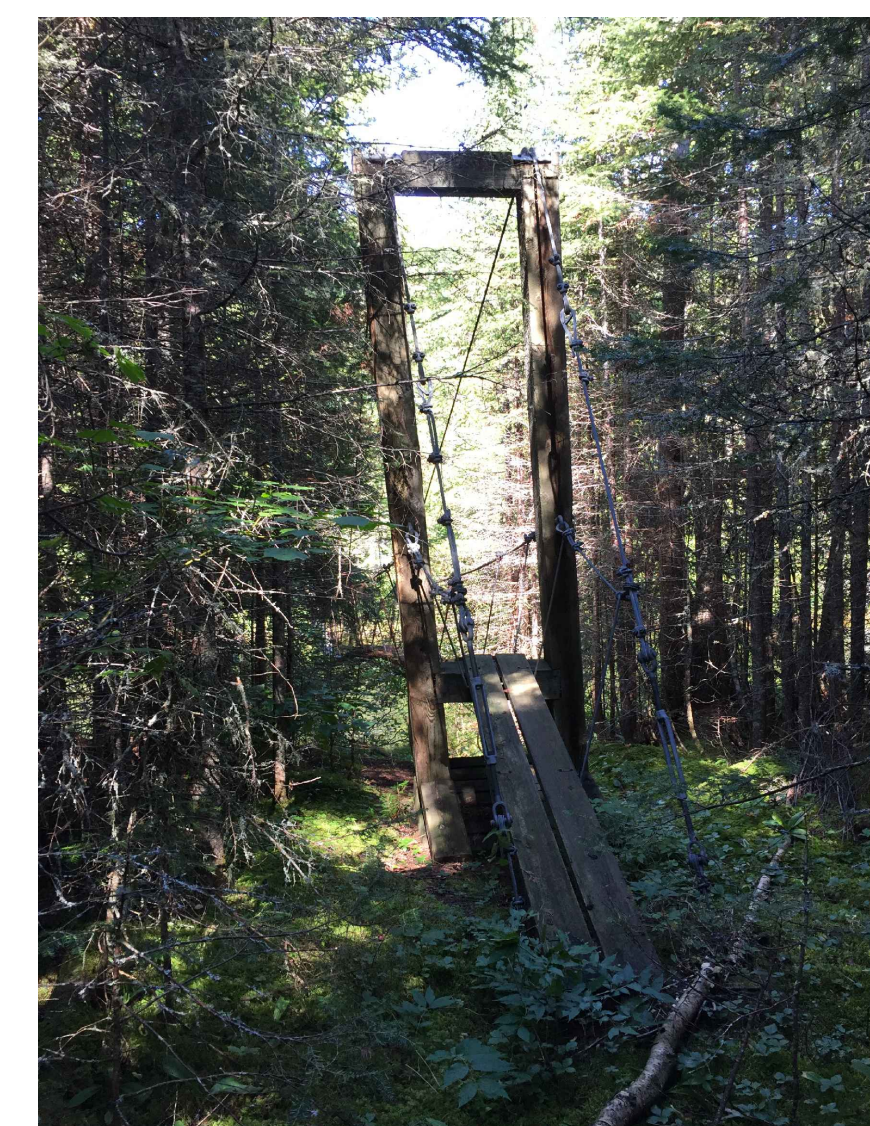
Designed by/Concept par M.PILON / A.MALLETTE	Date MAR 23, 2017
Drawn by/Dessiné par T.PILON	Date MAR 23, 2017
Checked by/Vérifié par D.SPACK	Date MAR 23, 2017
Approved by/Approuvé par D.SPACK	Date MAR 23, 2017
Project No./N° du projet 1433	Scale/Echelle AS NOTED
Drawing Set No./N° de série du dessin -	Sheet No./N° de la feuille C1.4

STRUCTURE LOCATION

NORTHING: 5336242
EASTING: 568350



NORTH ABUTMENT STRUCTURE



SOUTH ABUTMENT STRUCTURE



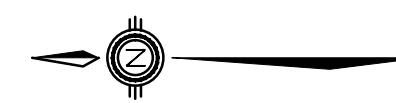
SUSPENSION BRIDGE STRUCTURE



SOUTH ABUTMENT STRUCTURE



SOUTH ABUTMENT STRUCTURE



SCOPE OF WORK:
1. DISMANTLE AND REMOVE STRUCTURE; AND,
2. RESTORE AREA TO ORIGINAL CONDITION.

KEY PLAN:



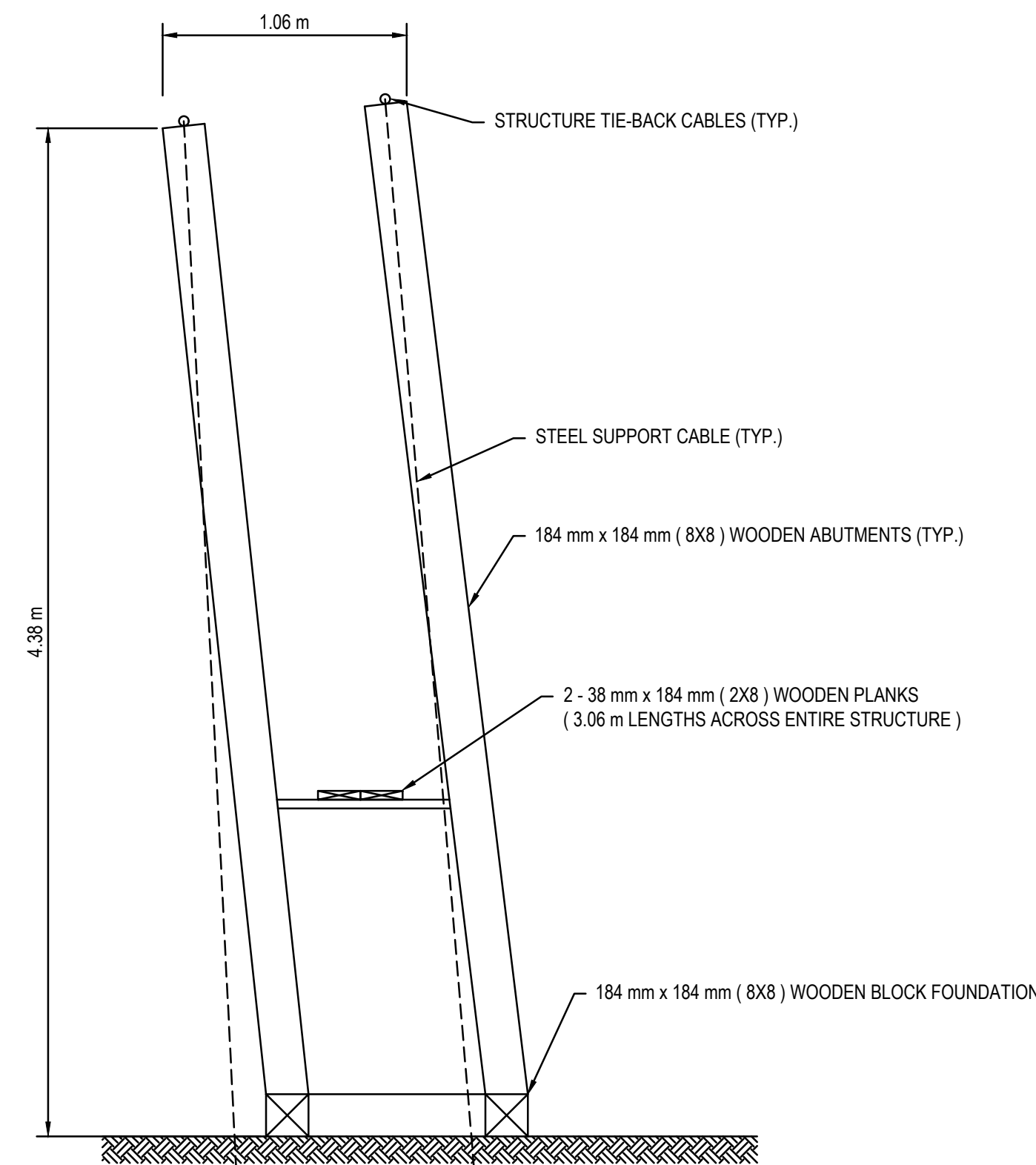
Legends:

NEW CONSTRUCTION

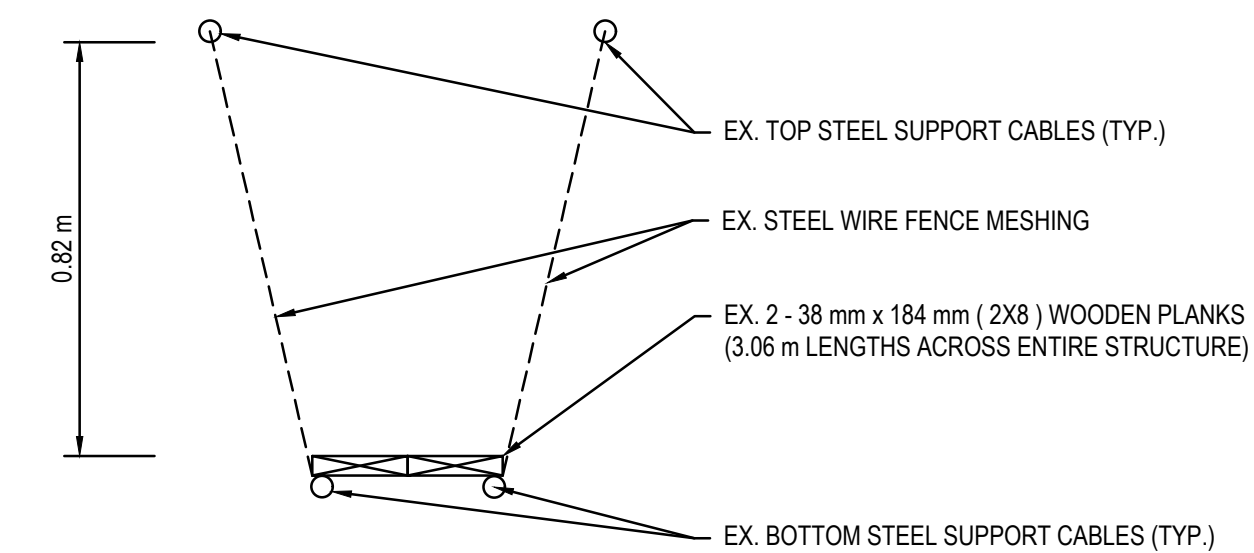
- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

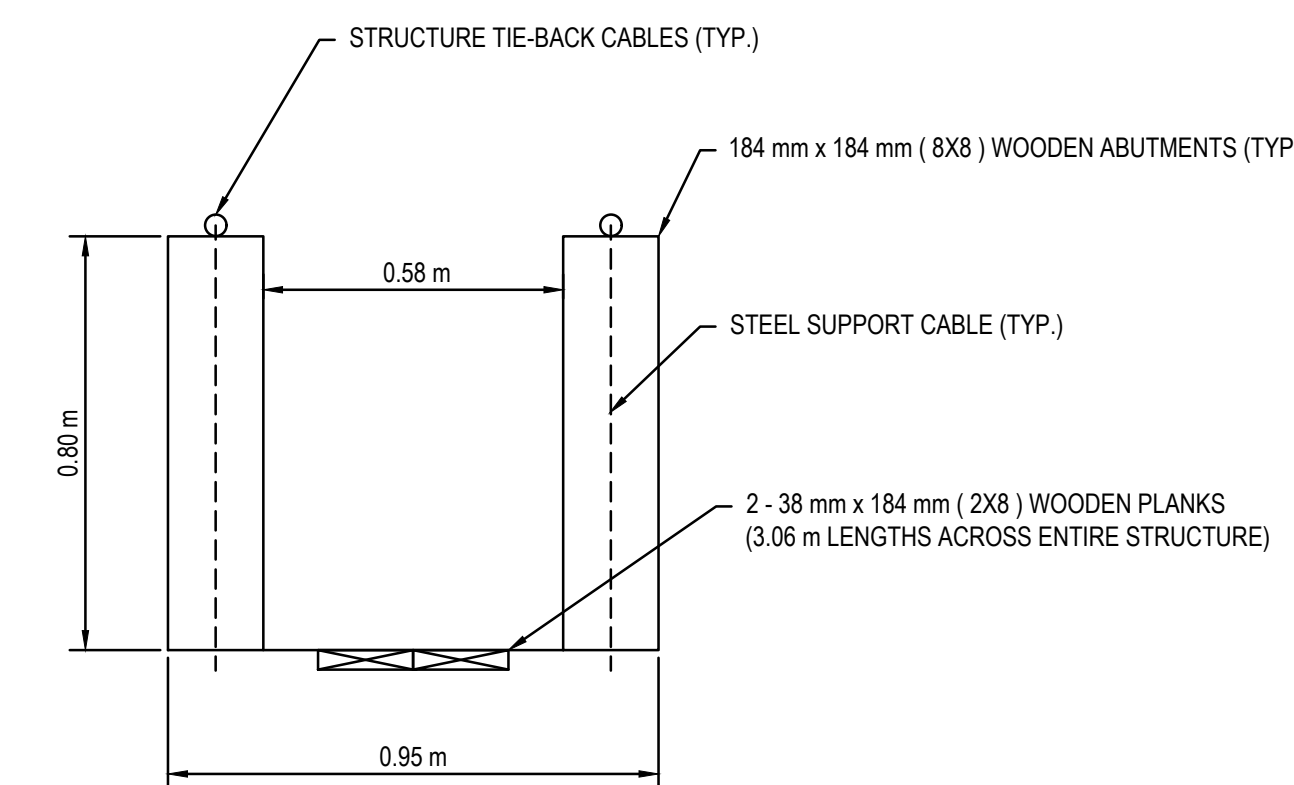
- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN



SOUTH ABUTMENT STRUCTURE (LEANING)
SCALE: N.T.S.



TYPICAL BRIDGE SECTION
SCALE: N.T.S.



NORTH ABUTMENT STRUCTURE
SCALE: N.T.S.

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Revision / Revision	
A	Detail number / Numéro de détail
B	Sheet number / Numéro de la feuille

Linear dimensions in millimetres / Dimensions linéaires en millimètres

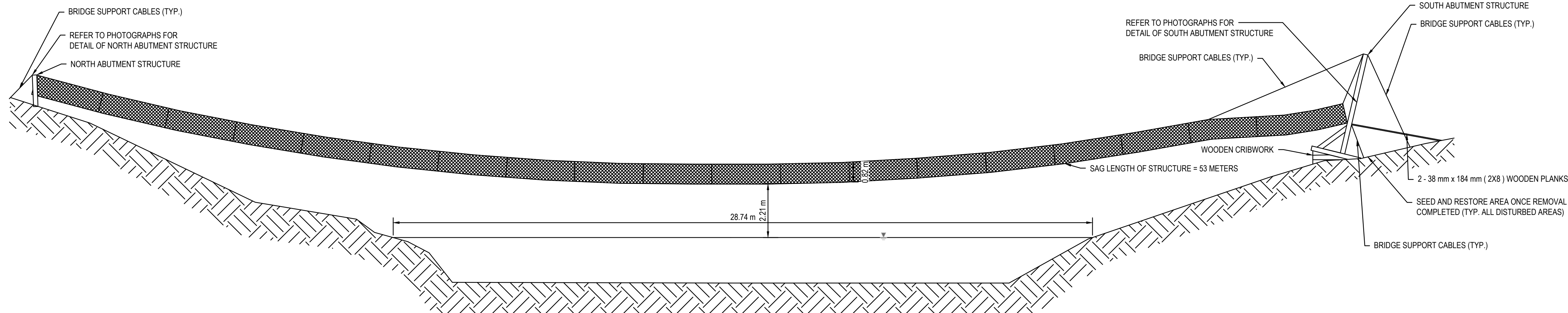
Consultant's Name / Nom de l'expert-conseil: **WSP**
185 EAST STREET, SAULT STE MARIE, ONTARIO, CANADA, P6A 3C8
TEL: 705-942-2070 | FAX: 705-942-2032 | WWW.WSPGROUP.COM
WSP-SP-01-15-0001-001 (WSP-SP-01-05-05-001)

Eng. Stamp / Sceau de l'ingénieur: **B. M. SPACEK**
2017

Project title / Titre du projet:
1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT

Drawing title / Titre du dessin:
STRUCTURE 17-01

Designed by / Concept par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: M.PILON / T.PILON / R.COPPENS	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / N° du projet: 1433	Scale / Echelle: AS NOTED
Drawing Set No. / N° de série du dessin: -	Sheet No. / N° de la feuille: C1.5

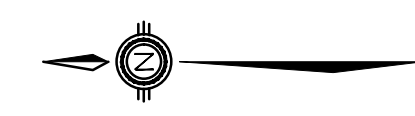


STRUCTURE ELEVATION VIEW
SCALE: N.T.S.

NOTE:

- 1) ENTIRE STRUCTURE TO BE REMOVED
- 2) WOODEN PLANKS AND WIRE FENCE SHALL BE REMOVED PRIOR TO CUTTING TOP OR BOTTOM SUPPORT CABLES.
- 3) CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC FALL ARREST PLAN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO

STRUCTURE LOCATION
 NORTHING: 5381926
 EASTING: 551180



VIEW OF STRUCTURE FACING SOUTHWEST

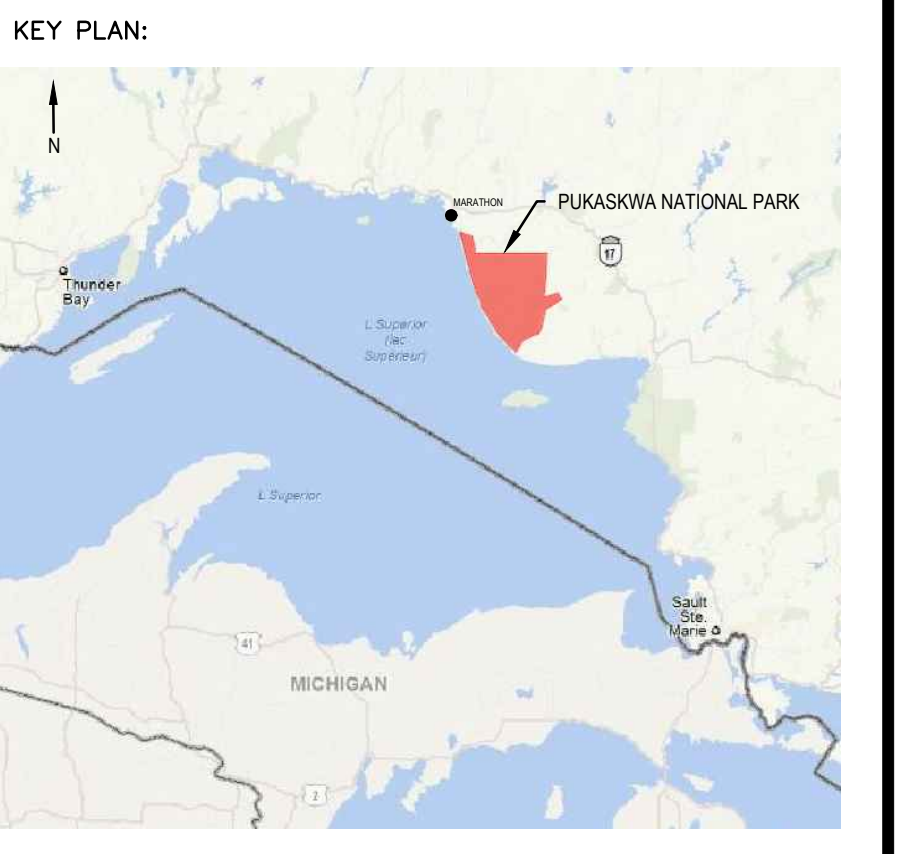


VIEW OF STRUCTURE FACING NORTH

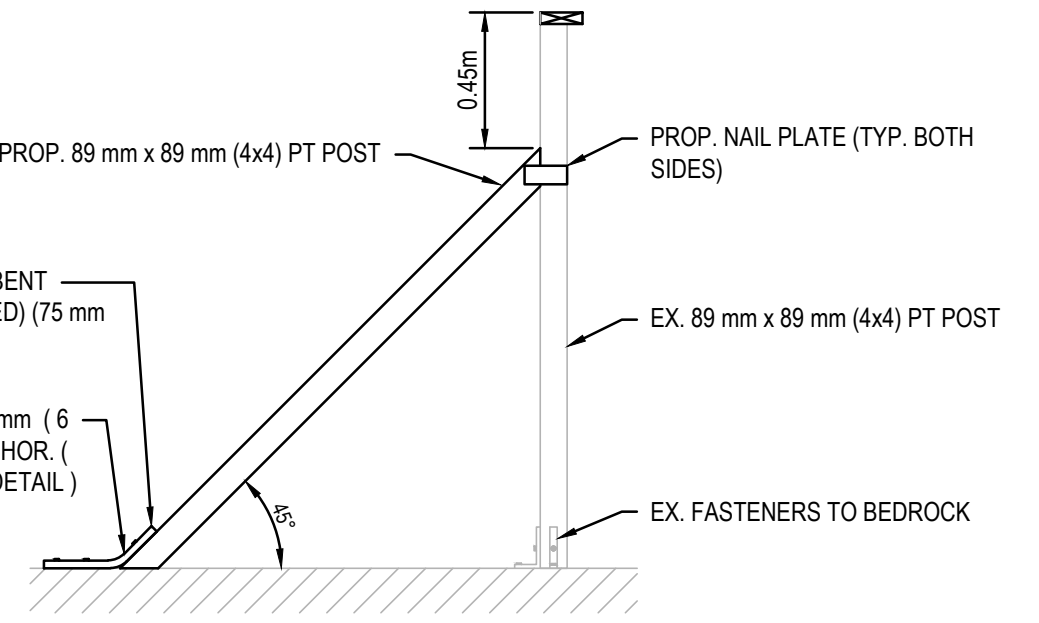
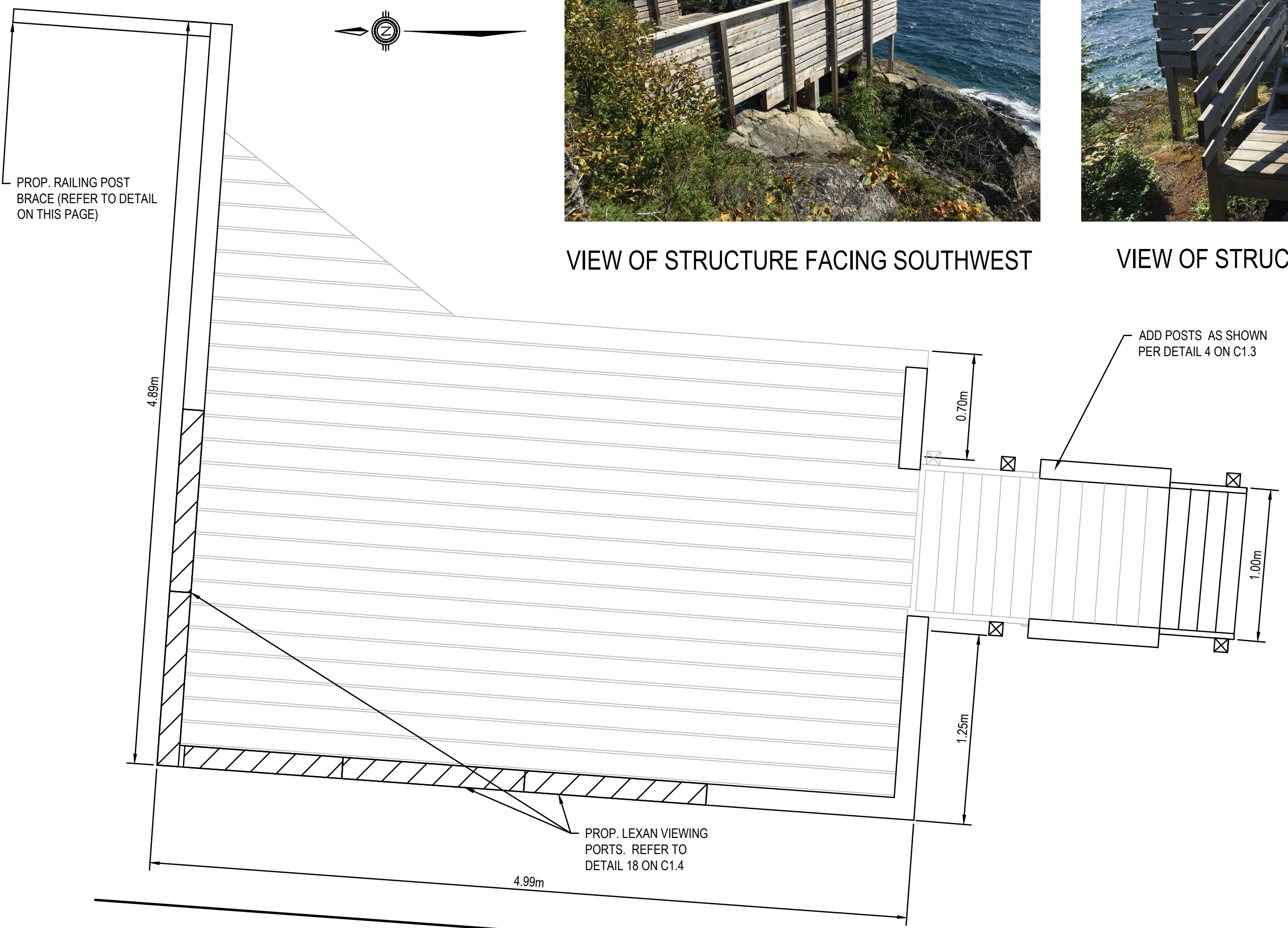


VIEW OF STRUCTURE FACING WEST

- SCOPE OF WORK:
1. RECONSTRUCT RAILINGS AS SHOWN;
 2. ADD POST REINFORCEMENT AS SHOWN;
 3. ADD LAG SCREWS TO BOTTOM POST CONNECTORS AS INDICATED (ALL HOLES);
 4. REPLACE JOIST HANGER AT WEST BEAM DIAPHRAGM;
 5. ADD FILL TO LEVEL GROUND AT BOTTOM OF EAST APPROACH STAIRWAY;
 6. ADD STAIRS AND HAND RAILINGS TO SOUTH END OF STRUCTURE;
 7. STRENGTHEN NORTH APPROACH WALL BY ADDING BOLTS AND BRACING;
 8. REPLACE METAL SUPPORT (LANDING) WITH PT LUMBER, AND;
 9. ADDITION OF LEXAN VIEWING PORTS ON THE VIEWING PLATFORM.



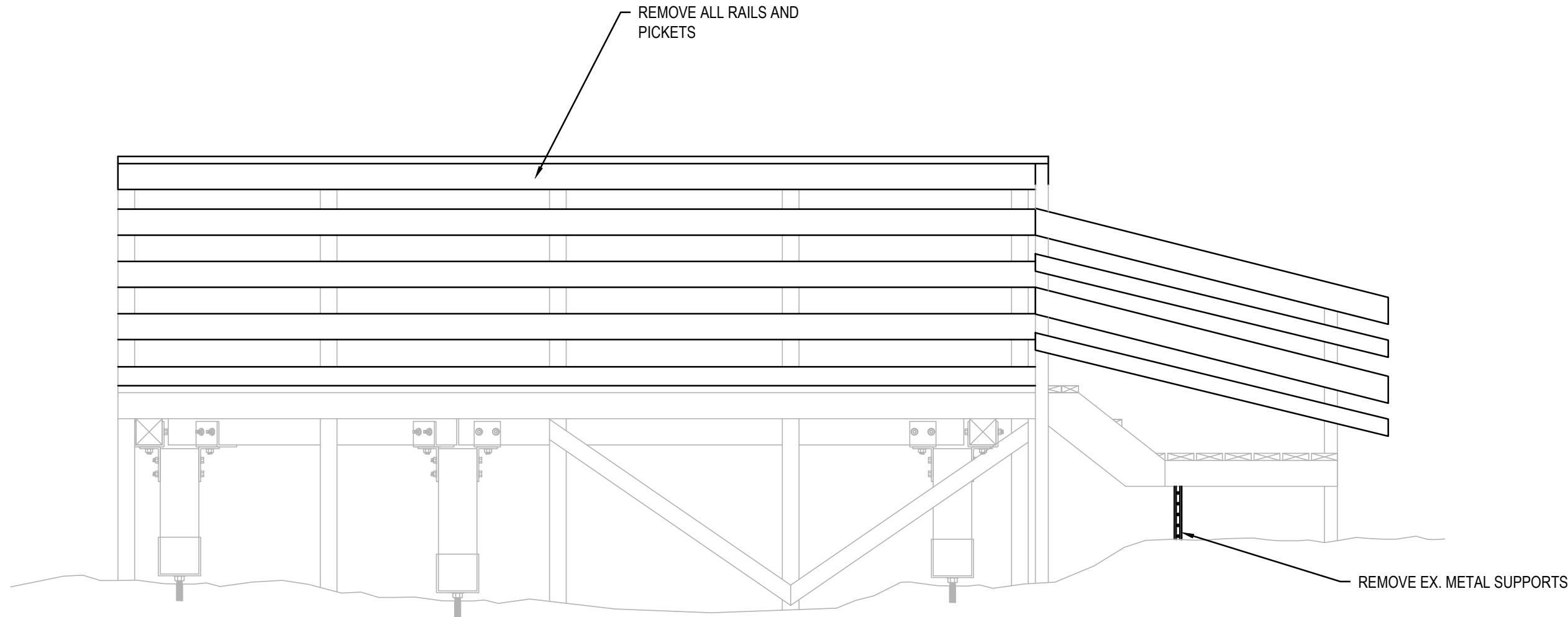
- Legends:
- NEW CONSTRUCTION**
- PROPOSED / TO BE PROVIDED
 - EXISTING / TO REMAIN
- REMOVALS**
- EXISTING / TO BE REMOVED
 - EXISTING / TO REMAIN



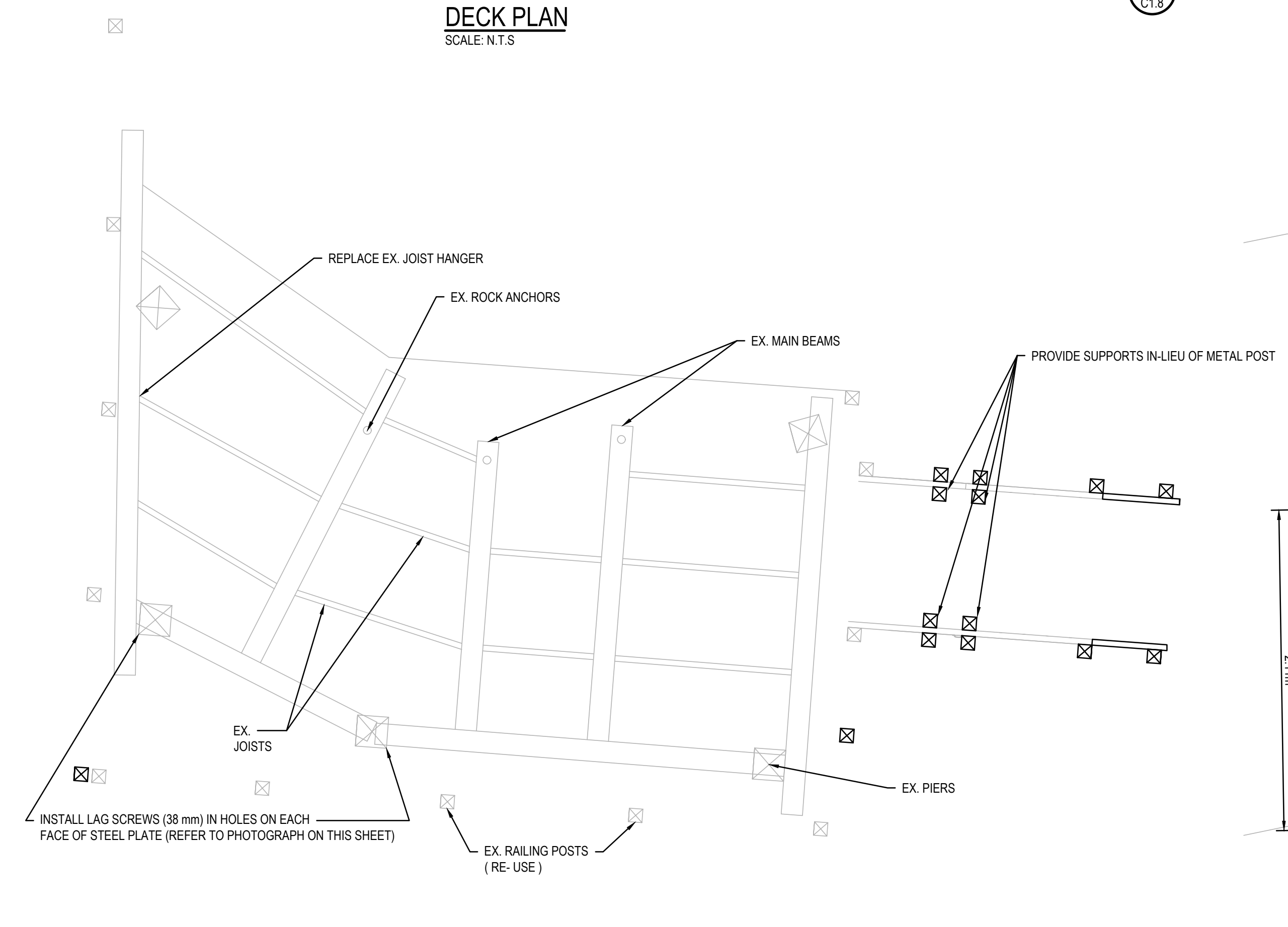
RAILING POST BRACE DETAIL
 SCALE: N.T.S.



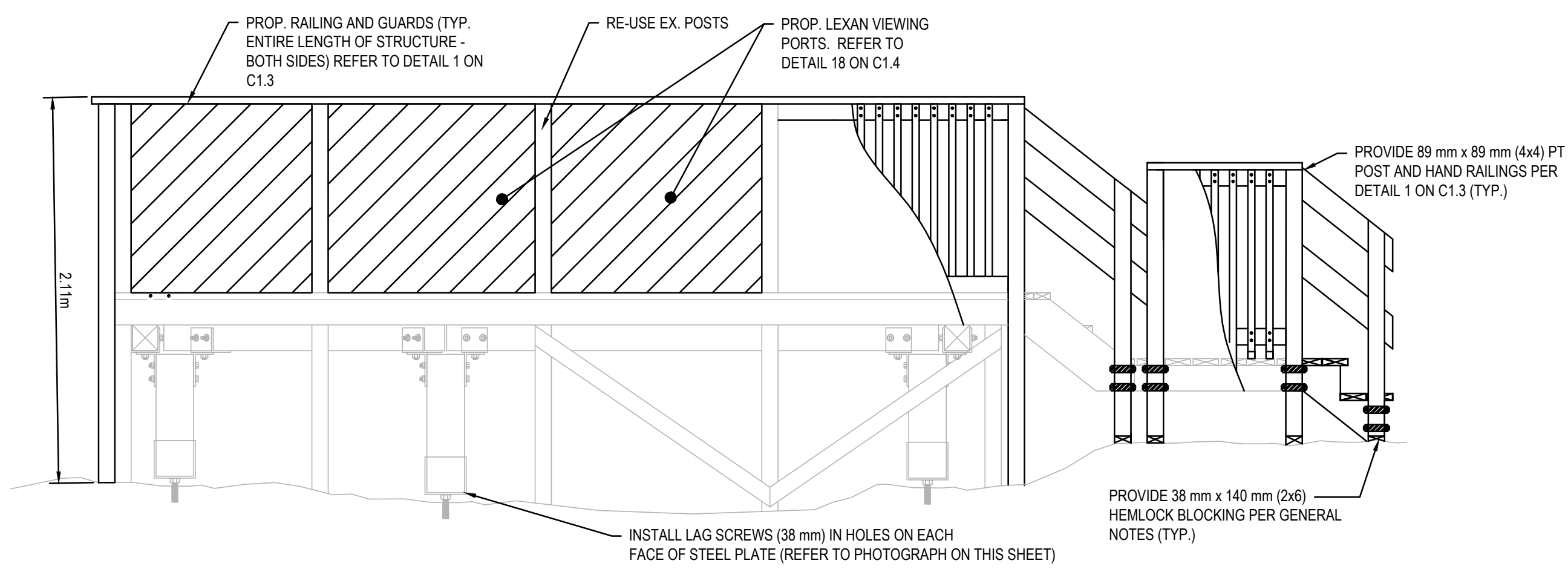
VIEW OF MISSING POST BOLTS (TYP.)



SECTION - REMOVALS
 SCALE: N.T.S.



STRUCTURAL PLAN
 SCALE: N.T.S.



SECTION - PROPOSED
 SCALE: N.T.S.

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Revision / Revision	
A	Detail number / Numéro de détail
B	Sheet number / Numéro de la feuille

Linear dimensions in millimetres / Dimensions linéaires en millimètres	
A	Detail number / Numéro de détail
B	Sheet number / Numéro de la feuille

Consultant's Name / Nom de l'expert-conseil: **WSP**

180 EAST STREET
 SUITE 101, MARKHAM, ONTARIO, CANADA, L3R 0E9
 TEL.: 705-943-2070 / FAX: 705-942-3532 / WWW.WSPGROUP.COM
 WSP-SP-2011-15-0001-001 (WSP# 151-0215-07)

Eng. Stamp / Sceau de l'ingénieur: **D. SPACEK**

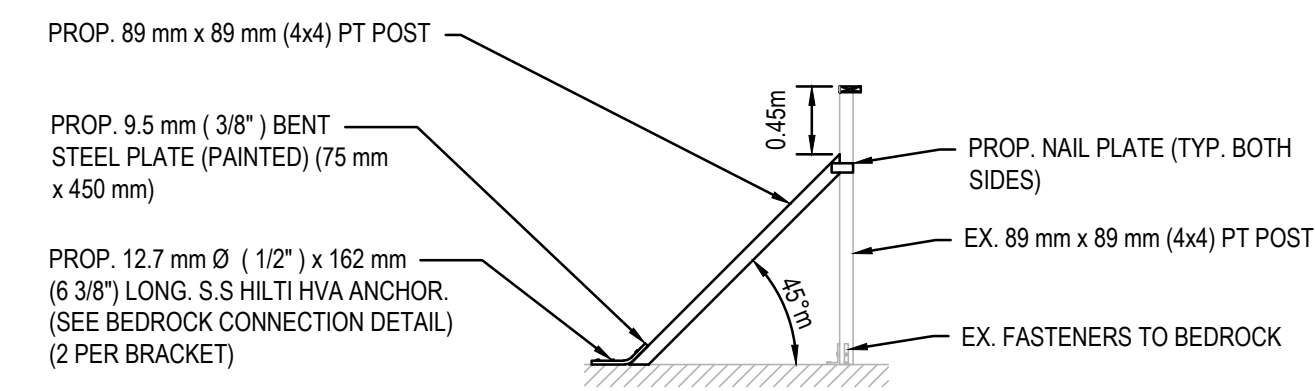
Project title / Titre du projet: **1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT**

Drawing title / Titre du dessin: **STRUCTURE 17-04**

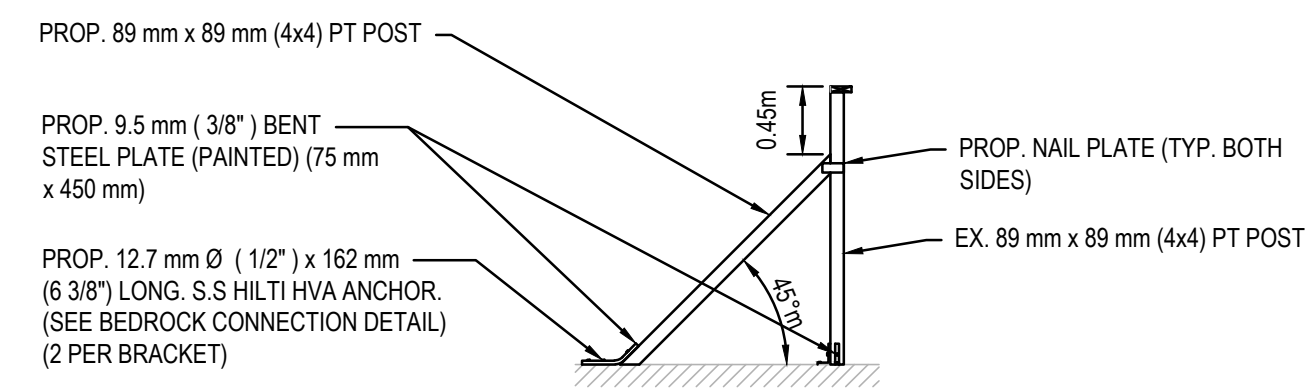
Designed by / Concept par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: T.PILON / M.PILON / R.COPPENS	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / No du projet: 1433	Scale / Echelle: AS NOTED
Drawing Set No. / No de série du dessin: -	Sheet No. / No de la feuille: C1.8

STRUCTURE LOCATION

NORTHING: 5381930
EASTING: 551272

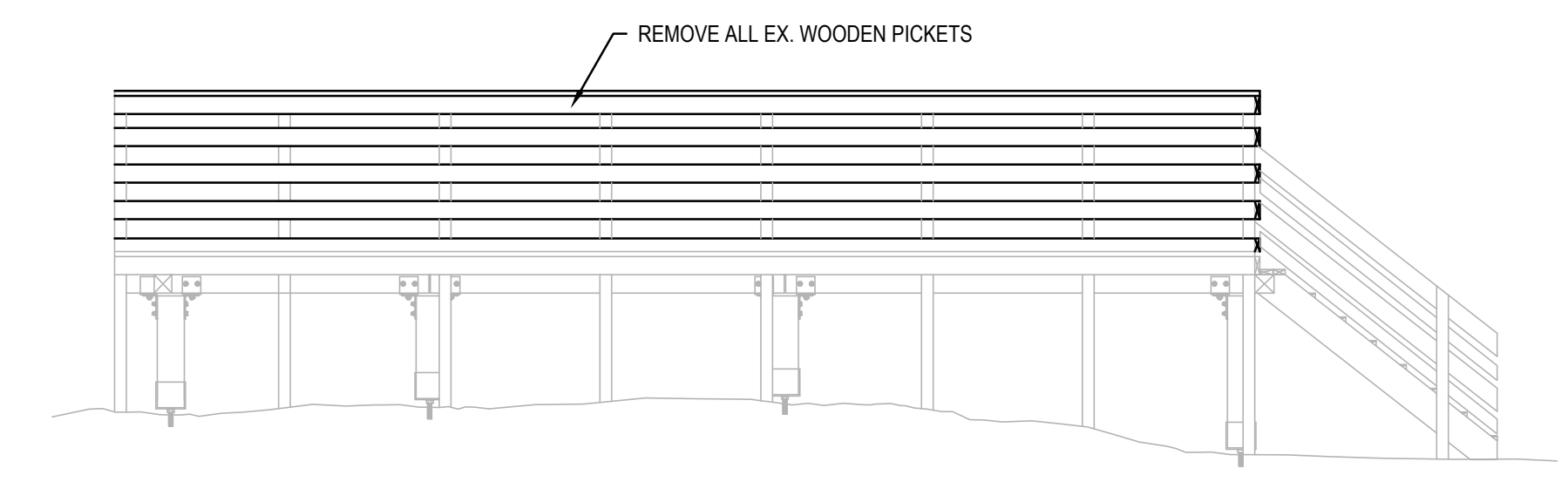
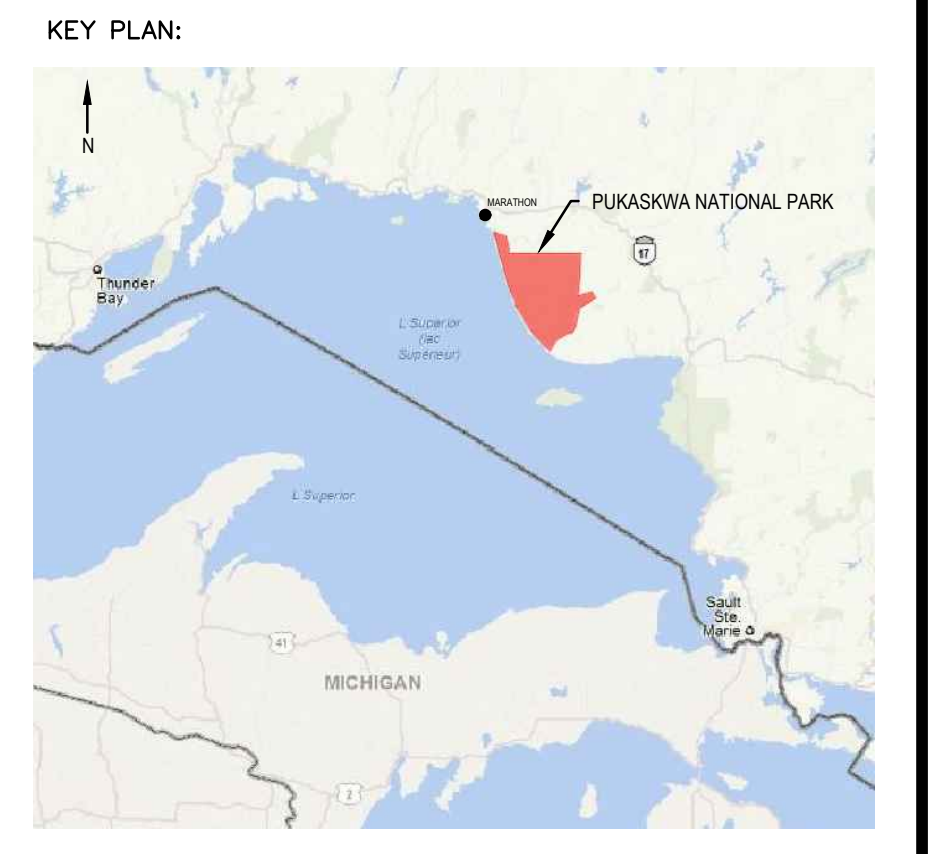


RAILING POST BRACE DETAIL (EX. POST)
SCALE: N.T.S

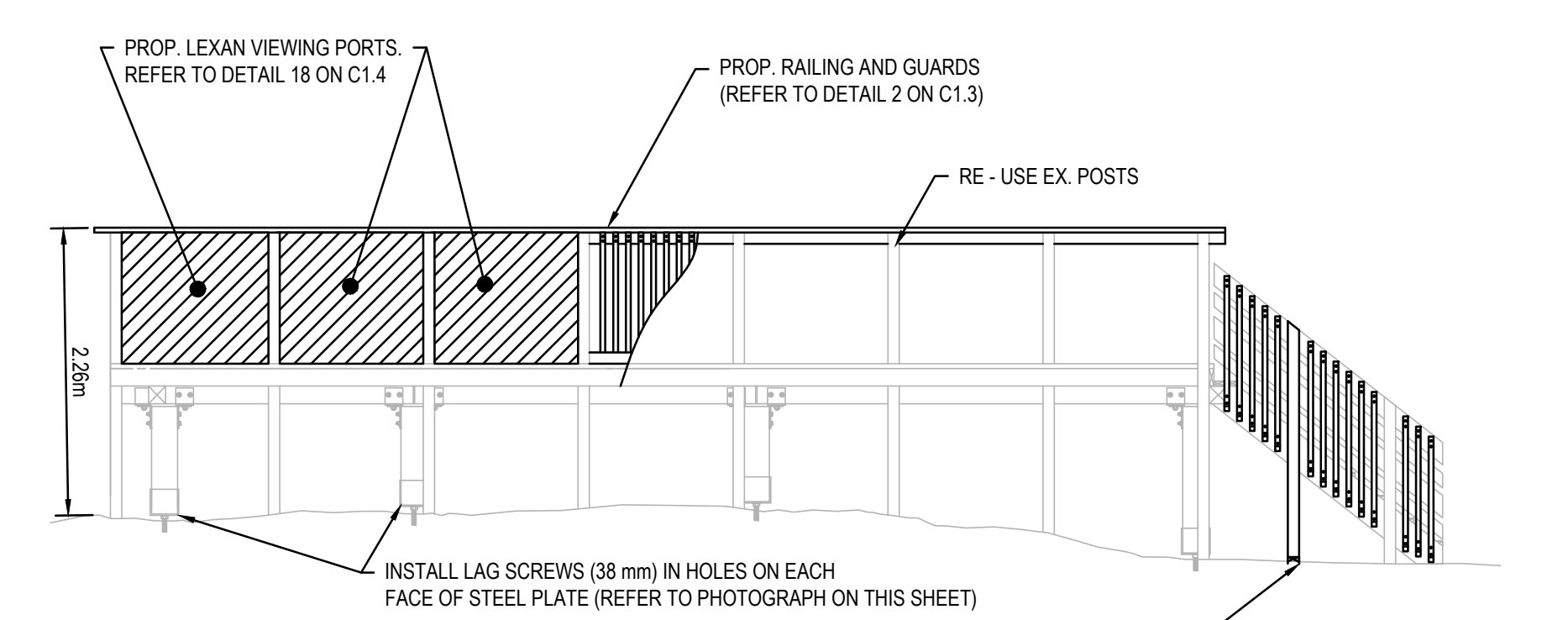


RAILING POST BRACE DETAIL (PROP. POST)
SCALE: N.T.S

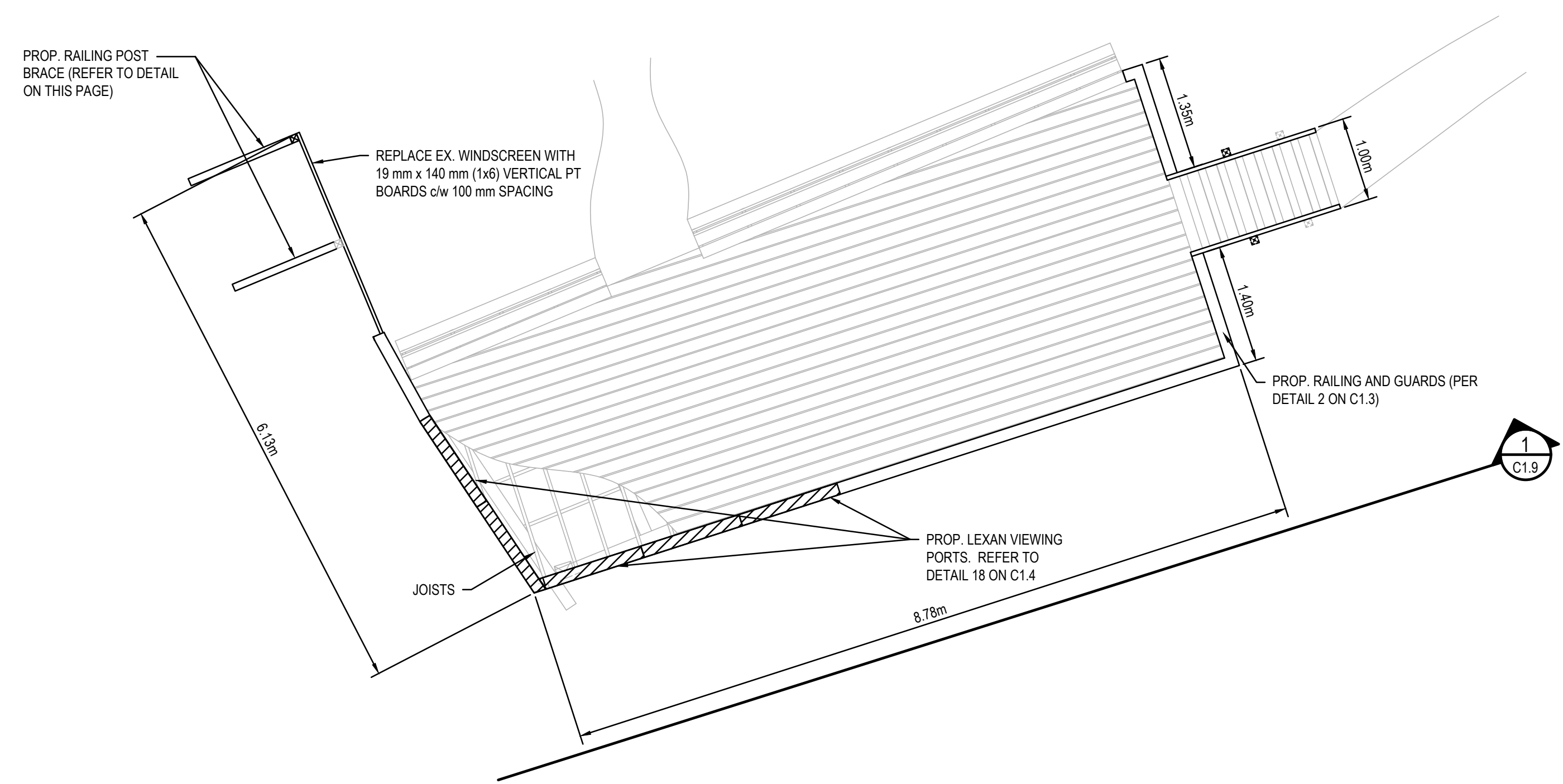
- SCOPE OF WORK:
1. RECONSTRUCT RAILINGS WITH GUARDS AS SHOWN;
 2. ADD RAILING POST REINFORCEMENT AS SHOWN;
 3. ADD LAG SCREWS TO BOTTOM POST CONNECTORS AS INDICATED (ALL HOLES);
 4. DECK JOISTS NOT BEARING ON SOUTH BEAM AT SOME LOCATIONS. ADD SHIMS TO PROVIDE BEARING ON BEAM;
 5. SUPPORT ON WALL EXTENSION NOT PROPERLY FASTENED, ADD BRACE FOR ENHANCED SUPPORT;
 6. SHIMS SHOULD BE ADDED BENEATH THE STRUCTURE FOR ADEQUATE LOAD TRANSFER;
 7. EX. WINDSCREEN - REPLACE HORIZONTAL PICKETS WITH VERTICAL PICKETS SPACED AT 100 MM. AND;
 8. ADDITION OF LEXAN VIEWING PORTS ON THE VIEWING PLATFORM.



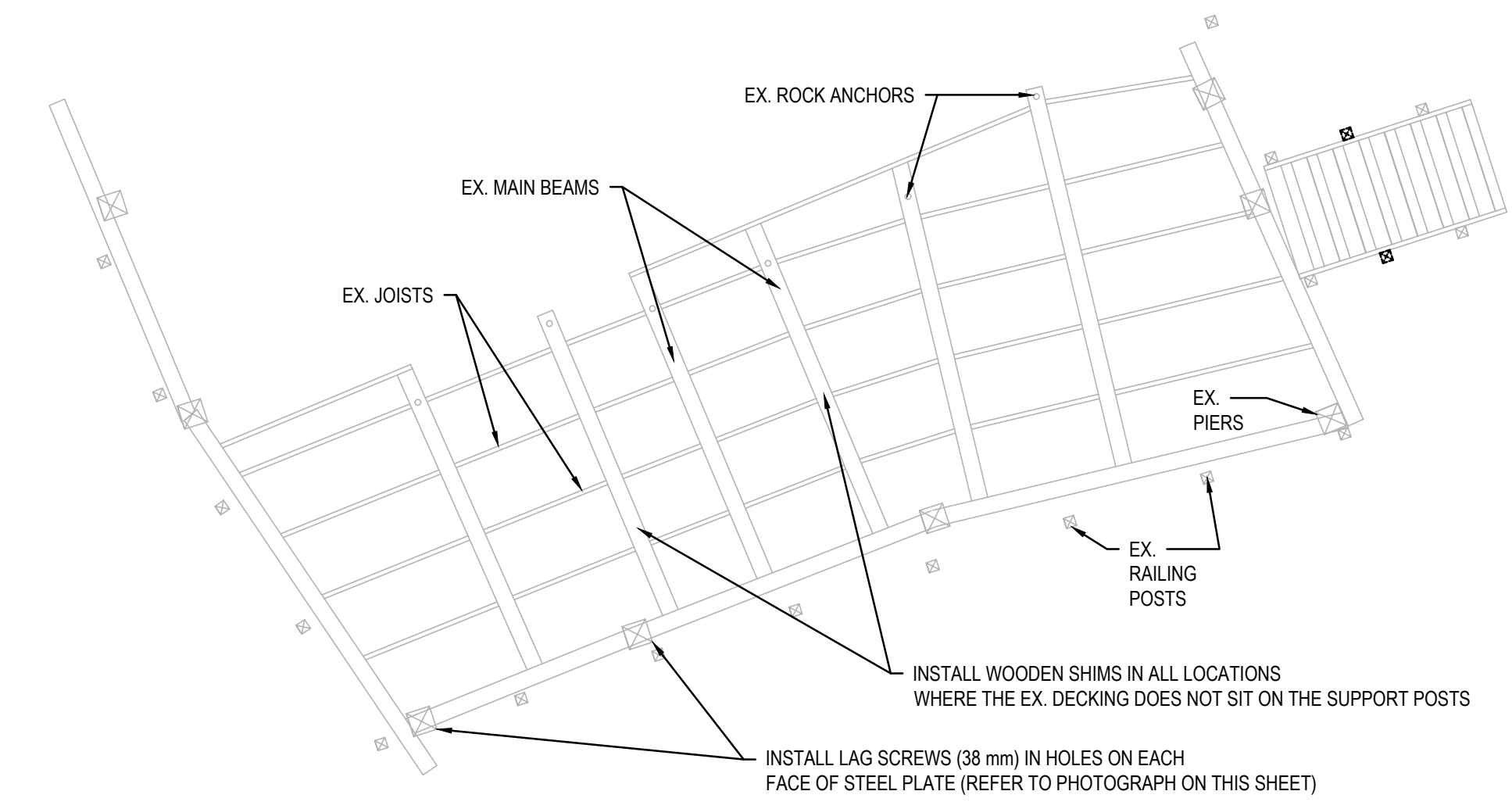
SECTION - REMOVALS
SCALE: N.T.S



SECTION - PROPOSED
SCALE: N.T.S



DECK PLAN
SCALE: N.T.S



STRUCTURAL PLAN
SCALE: N.T.S

Legends:

NEW CONSTRUCTION

- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Revision / Revision

A	Detail number	A Numéro de détail
B	Sheet number	B Numéro de la feuille

Linear dimensions in millimetres / Dimensions linéaires en millimètres

Consultant's Name / Nom de l'expert-conseil: **WSP**

Eng. Stamp / Sceau de l'ingénieur: **D. M. SPACEK**

Project title / Titre du projet:
1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT

Drawing title / Titre du dessin:
STRUCTURE 17-05

Designed by / Concept par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: T.PILON / M.PILON / R.COPPENS	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / No du projet: 1433	Scale / Echelle: AS NOTED
Drawing Set No. / No de série du dessin: -	Sheet No. / No de la feuille: C1.9



VIEW OF STRUCTURE FACING NORTH



VIEW OF STRUCTURE FACING SOUTHWEST



VIEW OF STRUCTURE FACING NORTHEAST



VIEW OF MISSING SUPPORT BOLTING
ADD LAG SCREWS

STRUCTURE LOCATION

NORTHING: 5382133
EASTING: 551618

SCOPE OF WORK:

1. ADD SUPPORT POSTS AND RAILINGS AS INDICATED;
2. ADD SUPPORTS BRACKETS ON ALL NEW AND EXISTING POSTS THAT CONTAIN HAND RAILINGS;
3. REPAIR STRINGERS AS INDICATED;
4. WIDEN STAIRS 2, 3 AND 4 AS INDICATED;
5. STRENGTHEN EX. POSTS VIA LAMINATIONS AS INDICATED; ENSURE DIAGONAL BRACING IN BOTH DIRECTIONS;
6. PROVIDE LEVEL CONCRETE PADS AS INDICATED; AND;
7. ADD SUPPORT TO UNDERSIDE OF LANDING #3.

KEY PLAN:



Legends:

NEW CONSTRUCTION

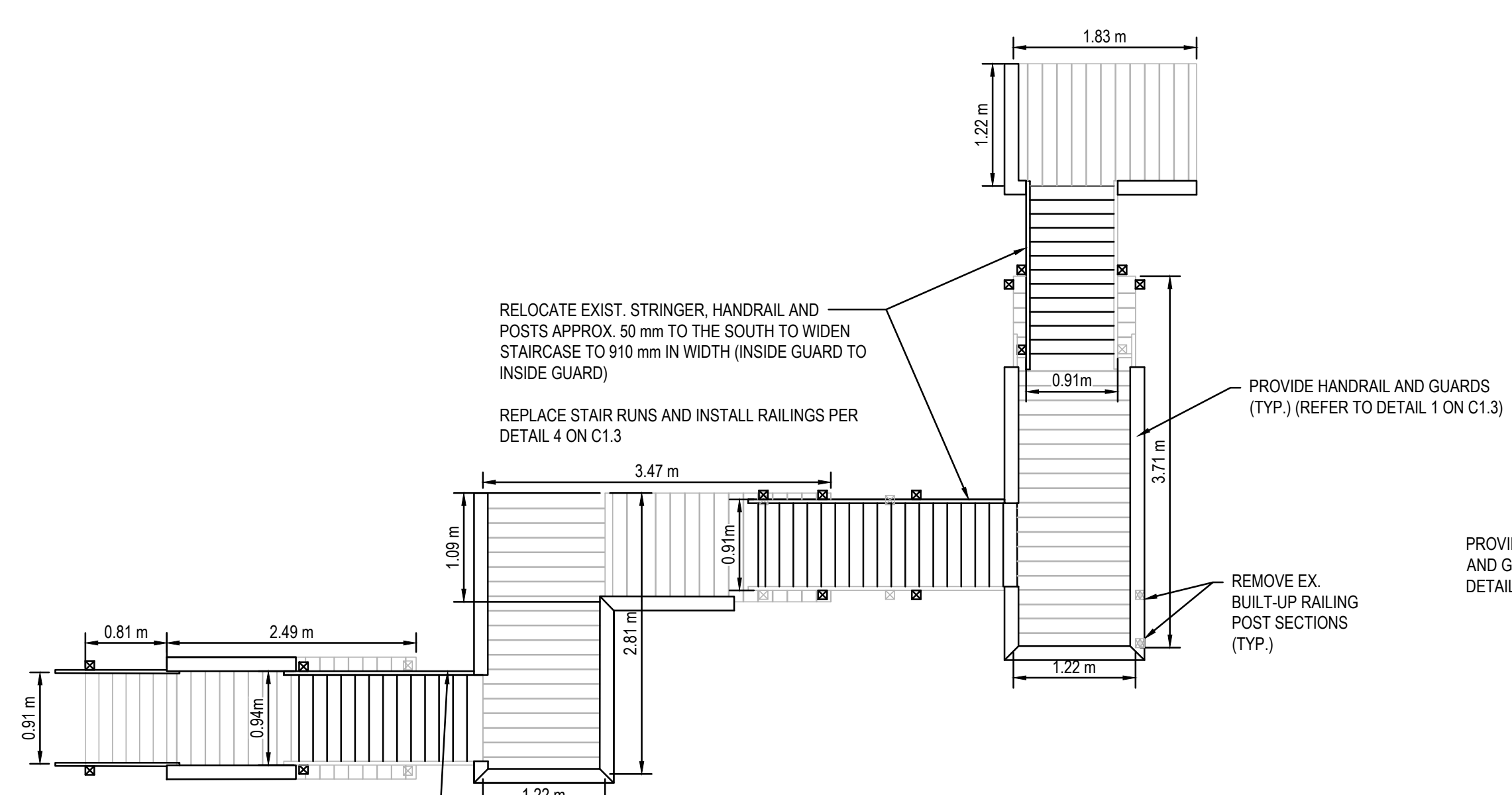
■ PROPOSED / TO BE PROVIDED

■ EXISTING / TO REMAIN

REMOVALS

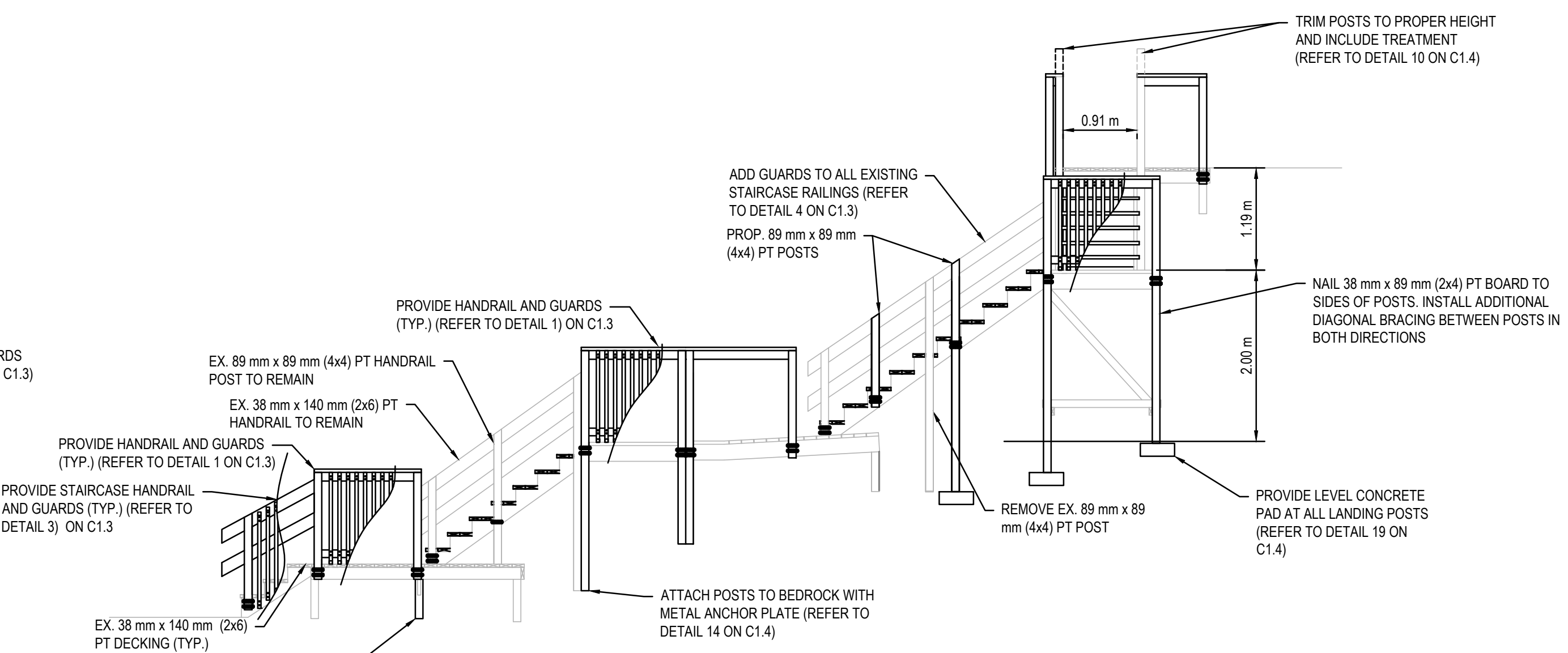
■ EXISTING / TO BE REMOVED

■ EXISTING / TO REMAIN



PLAN VIEW

SCALE: 1:50

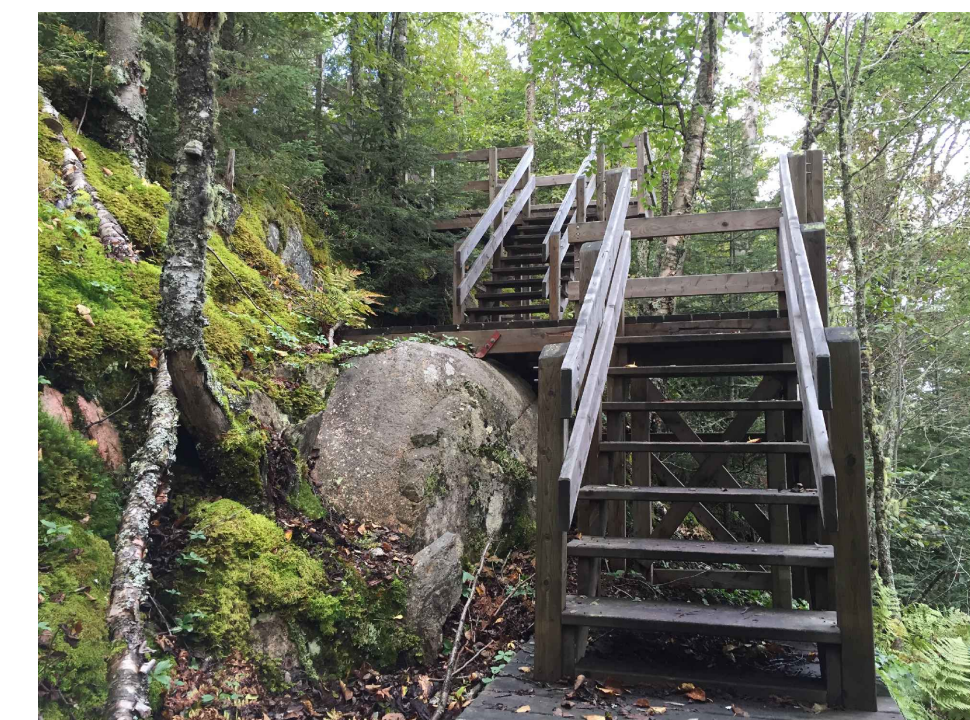


WEST ELEVATION

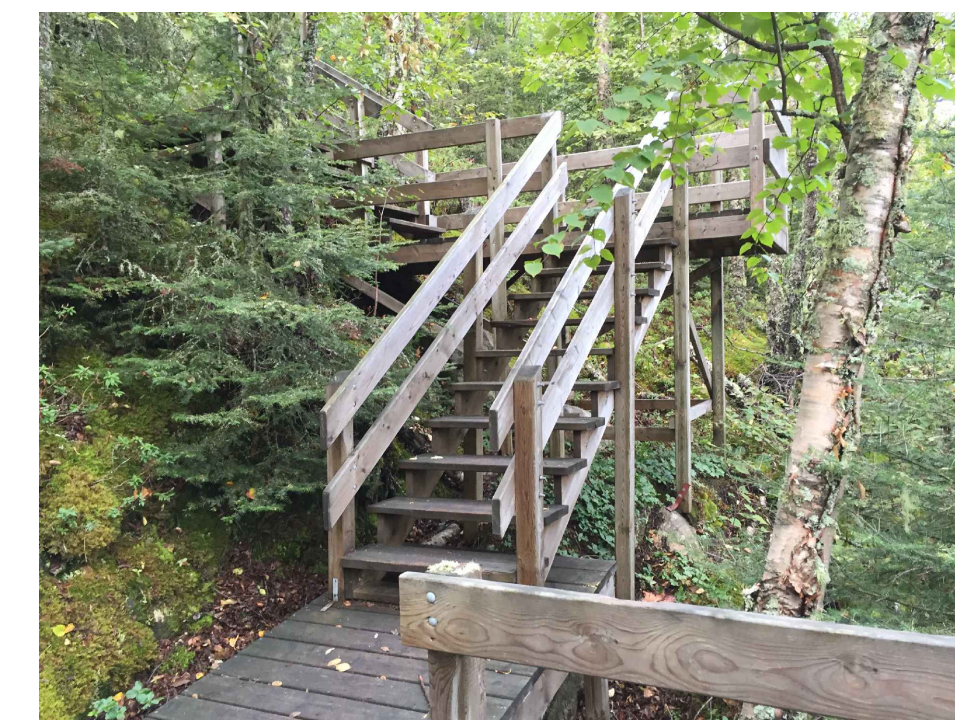
SCALE: 1:50

RELOCATE EXIST. STRINGER AND HANDRAIL APPROX. 90 mm TO THE WEST TO WIDEN STAIRCASE TO 940 mm IN WIDTH (INSIDE GUARD TO INSIDE GUARD)

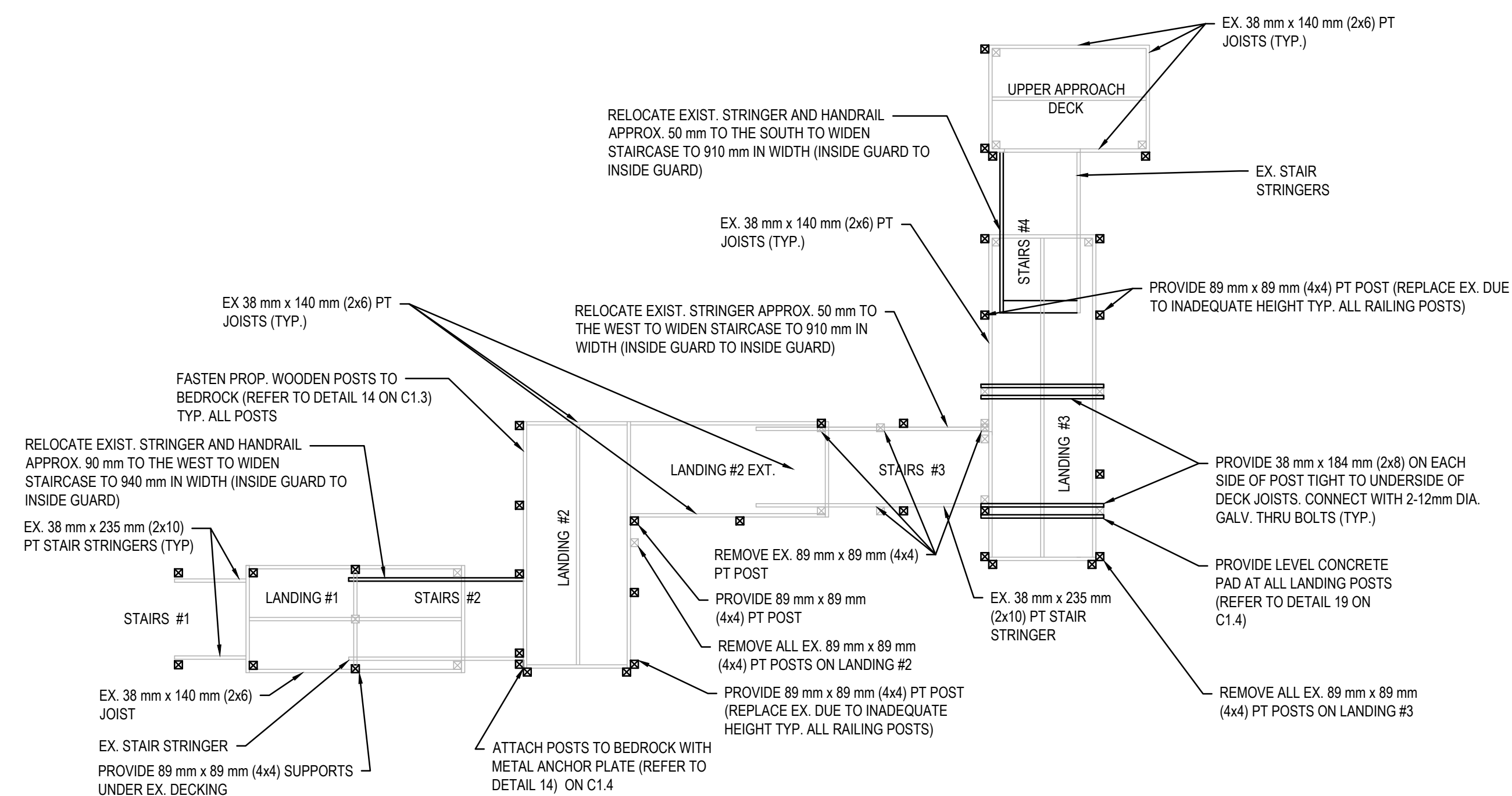
REPLACE STAIR RUNS AND INSTALL RAILINGS PER DETAIL 4 ON C1.3



VIEW OF STAIRS #2 FACING NORTH

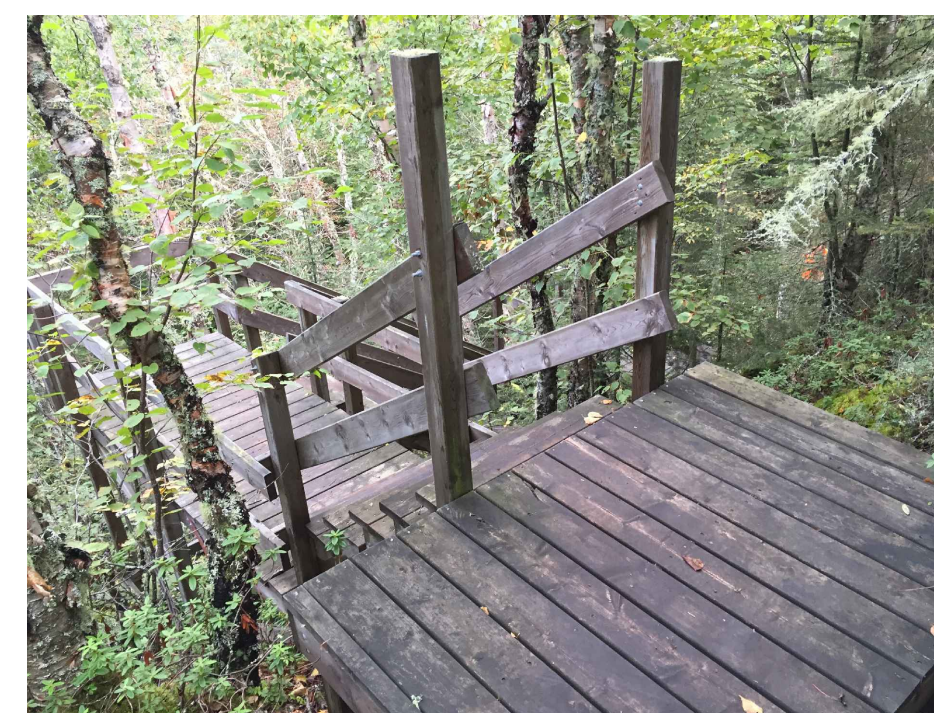


VIEW OF STAIRS #3 FACING NORTHWEST



STRUCTURAL PLAN

SCALE: 1:50



VIEW OF STAIRS #4 FACING SOUTHEAST

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Revision / Révision	
A	Detail number / Numéro de détail
B	Sheet number / B Numéro de la feuille

Linear dimensions in millimetres / Dimensions linéaires en millimètres

Consultant's Name / Nom de l'expert-conseil: **WSP**

Eng. Stamp / Sceau de l'ingénieur: **D. M. SPACEK**

186 EAST STREET
SUITE 101
GALLT SITE (MIDLAND) CHANNAH, P.O. BOX 3028
TEL.: 705-942-3070 / FAX: 705-942-3532 / WWW.WSPGROUP.COM
WSP-SP201-15-0001-001 (WSP# 151-001-001)

Project title / Titre du projet: **1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT**

Drawing title / Titre du dessin: **STRUCTURE 17-06**

Designed by/Concept par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by/Dessiné par: M.PILON / T.PILON / R.COPPENS	Date: MAR 23, 2017
Checked by/Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by/Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No./N° du projet: 1433	Scale/Echelle: AS NOTED
Drawing Set No./N° de série du dessin: -	Sheet No./N° de la feuille: C1.10

STRUCTURE LOCATION

NORTHING: 5381879
EASTING: 551830

SCOPE OF WORK:

1. BEAM LAMINATIONS ARE LOOSE. ADD SCREWS TO TIGHTEN;
2. CONNECT KNEE BRACING TO BEDROCK AS INDICATED;
3. REPLACE ONE WEAK DECK BOARD NEXT TO CENTER RAIL POST;
4. REPLACE HAND RAILINGS AND GUARDS AS SHOWN;
5. PAINT GUSSET BRACKETS AS INDICATED; AND,
6. REPLACE CRACKED DECK BOARDS (APPROX. 5).



KEY PLAN:



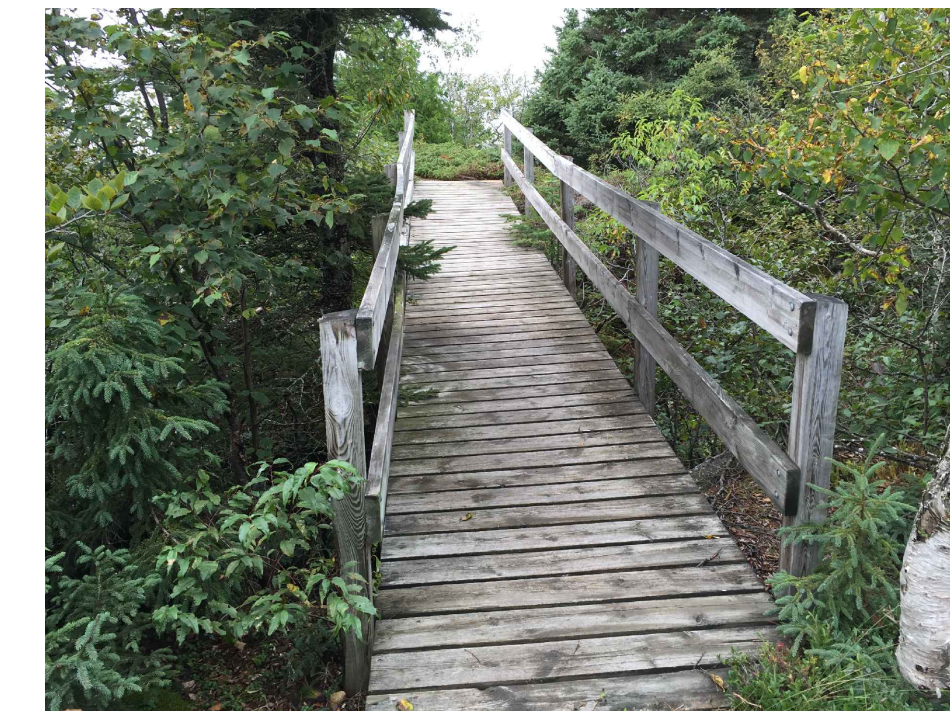
Legends:

NEW CONSTRUCTION

- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN



VIEW OF STRUCTURE FACING NORTH



VIEW OF STRUCTURE FACING SOUTH

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Revision / Révision	
A	Detail number / Numéro de détail
B	Sheet number / Numéro de la feuille
Linear dimensions in millimetres / Dimensions linéaires en millimètres	

Consultant's Name / Nom de l'expert-consultant: **WSP**

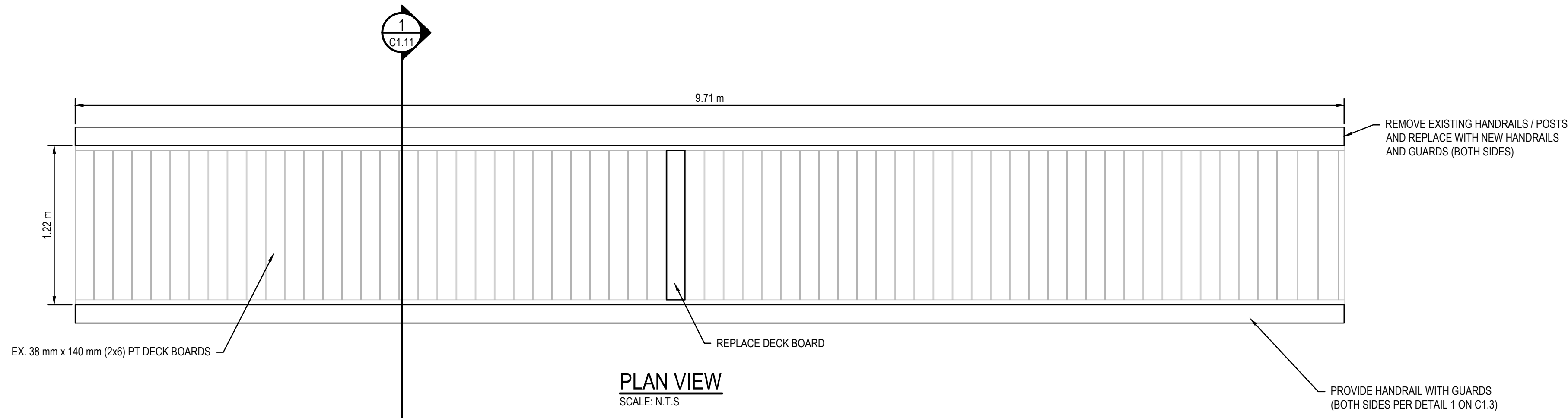
186 EAST STREET
SULLY STE MARIE (ONTARIO) CANADA, P6A 3C8
TEL.: 705-842-3070 / FAX: 705-842-3532 / WWW.WSPGROUP.COM
WSP-SP-2011-05-0001-001 (WSP# 151-60155-07)

Eng. Stamp / Sceau de l'ingénieur: **D. SPACEK**

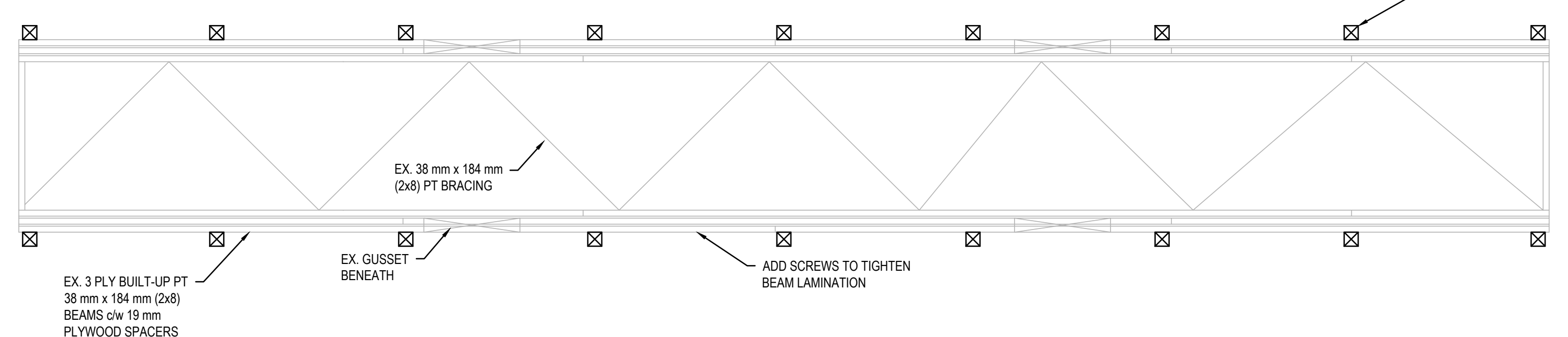
Project title / Titre du projet:
1433 PUK NP
TRAIL BRIDGE STRUCTURE
REHABILITATION PROJECT

Drawing title / Titre du dessin:
STRUCTURE 17-07

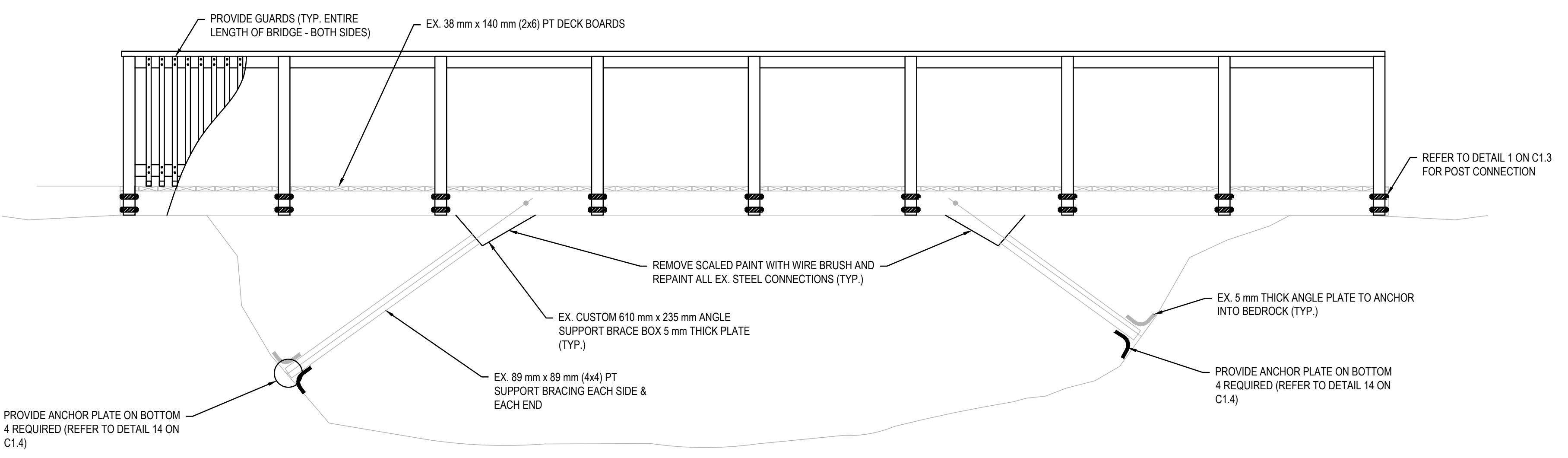
Designed by / Concept par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: T.PILON / M.PILON / R.COPPENS	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / N° du projet: 1433	Scale / Echelle: AS NOTED
Drawing Set No. / N° de série du dessin: -	Sheet No. / N° de la feuille: C1.11



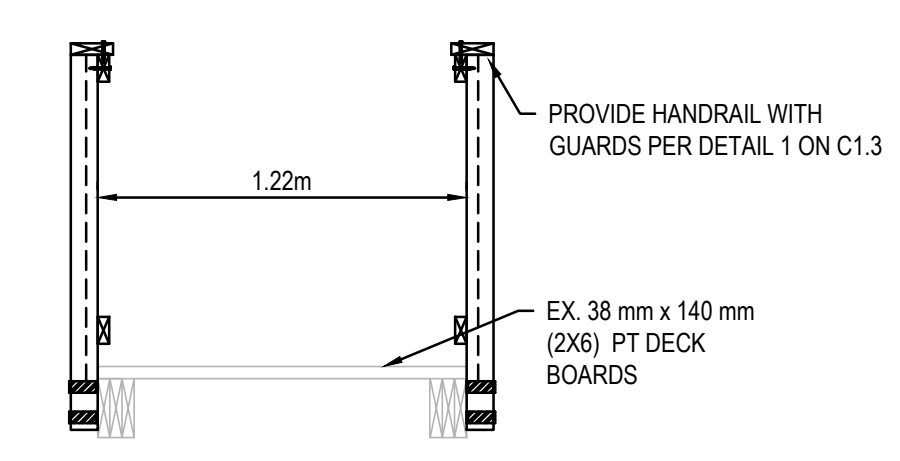
PLAN VIEW
SCALE: N.T.S



STRUCTURAL PLAN
SCALE: N.T.S



SOUTH ELEVATION
SCALE: N.T.S



SECTION
SCALE: N.T.S

STRUCTURE LOCATION

NORTHING: 5326800
EASTING: 573923



VIEW OF STRUCTURE FACING SOUTHEAST



VIEW OF STRUCTURE FACING EAST

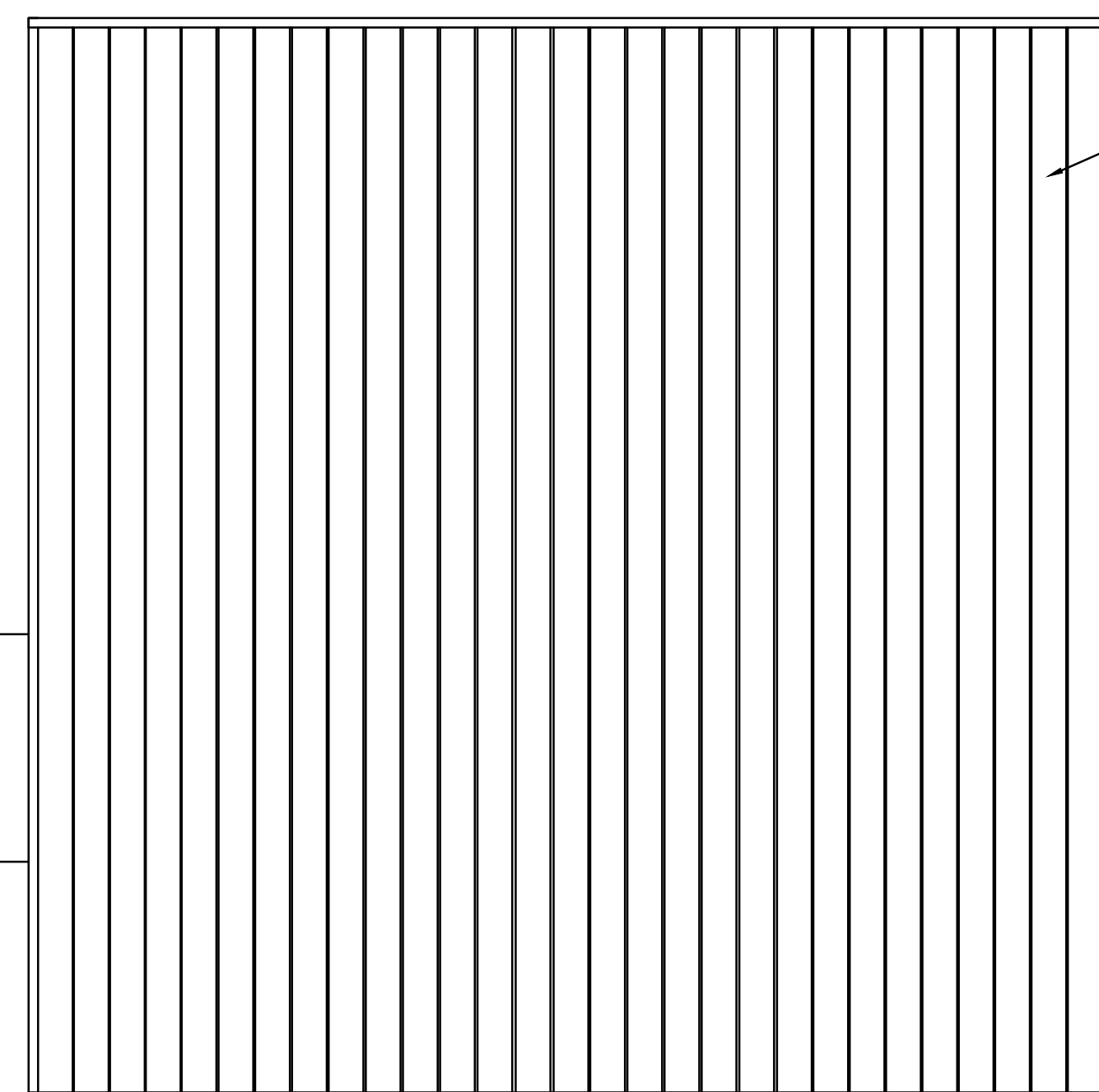
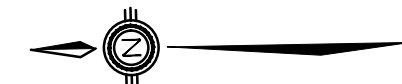


VIEW OF STRUCTURE FACING NORTH



UNDERSIDE VIEW OF STRUCTURE FACING NORTH

SCOPE OF WORK:
1. REMOVE STRUCTURE; AND,
2. RESTORE SITE.



PLAN VIEW
SCALE: N.T.S.

38 mm x 140 mm (2x6) PT DECKING
38 mm x 184 mm (2x8) PT FASCIA BOARD (TYP.)

2 - 38 mm x 140 mm (2x6) PT STAIR TREADS (5 STAIRS)

38 mm x 235 mm (2x10) PT STAIR TREADS (5 STAIRS)

200 mm x 200 mm PT POSTS (TYP.)

200 mm x 200 mm PT DECK BEAMS (TYP.)

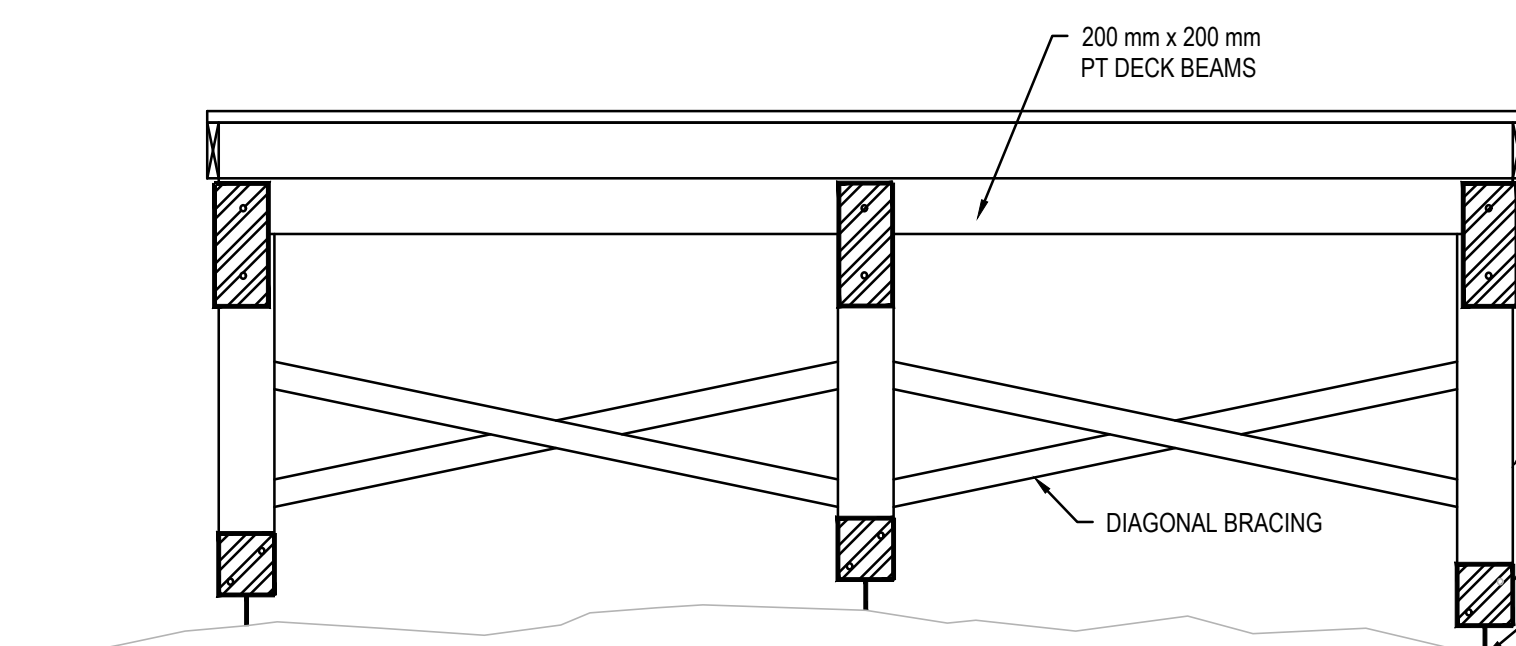
38 mm x 235 mm (2x10) PT STAIR STRINGER (TYP.)

STRUCTURAL PLAN
SCALE: N.T.S.

4.36m

4.36m

38 mm x 235 mm (2x10) PT STAIR STRINGER



SOUTH ELEVATION
SCALE: N.T.S.

38 mm x 140 mm (2x6) PT DECK BOARDS

200 mm x 200 mm PT DECK BEAMS

200 mm x 200 mm LOWER BEAMS

200 mm x 200 mm PT POSTS (TYP.)

DIAGONAL BRACING

STEEL SADDLE (TYP.)

FILL DOWEL HOLES WITH NON-SHRINK GROUT ONCE REMOVAL IS COMPLETED (TYP. ALL EX. BEDROCK PENETRATIONS)

WEST ELEVATION
SCALE: N.T.S.

REMOVE EX. SPARE WOOD FROM UNDER STRUCTURE

5 mm x 355 mm x 200 mm BENT PLATE AT CORNERS SECURED TO POSTS WITH LAG BOLTS (TYP.)

38 mm x 140 mm (2x6) PT DIAGONAL BRACING (TYP.)

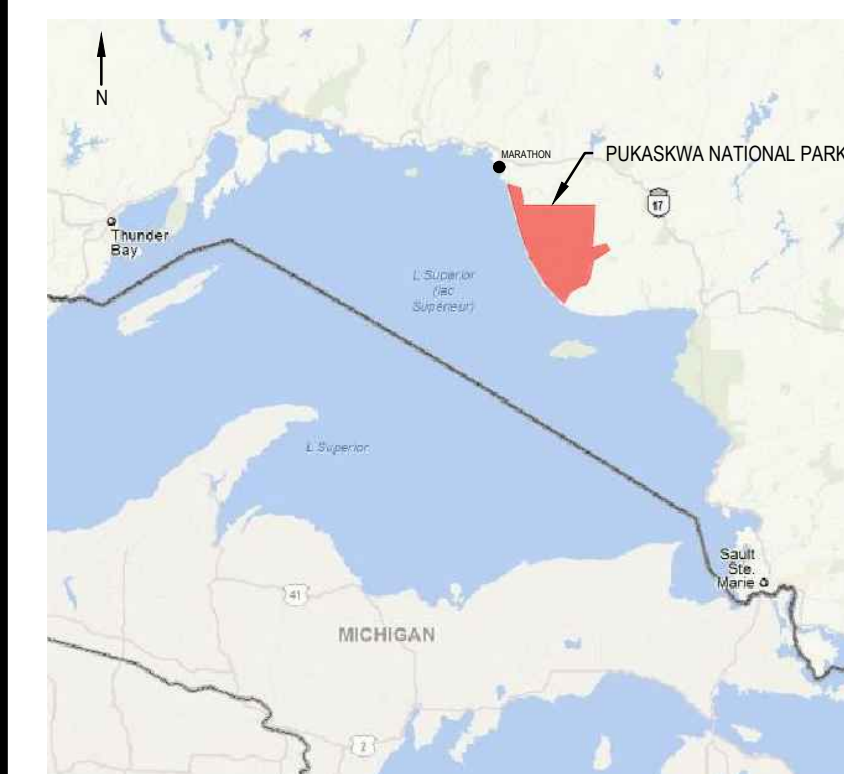
200 mm x 200 mm PT POST

5 mm x 200 mm x 200 mm C/W 39 mm Ø ROD WELDED TO BOTTOM OF STEEL SADDLE

NOTE: ENTIRE STRUCTURE TO BE REMOVED



KEY PLAN:



Legends:

NEW CONSTRUCTION

- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Revision / Révision	
A	Detail number / Numéro de détail
B	Sheet number / Numéro de la feuille

Linear dimensions / Dimensions linéaires in millimetres / en millimètres
--

Consultant's Name / Nom de l'expert-conseil: **WSP**

Eng. Stamp / Sceau de l'ingénieur: [Professional Engineer Seal]

186 EAST STREET
SALT STEPHEN (ONTARIO) CANADA, P6A 3C8
TEL.: 705-942-3070 / FAX: 705-942-3532 / WWW.WSPGROUP.COM
WSP-SP-201-15-0001-001 (WSP# 151-001-05-01)

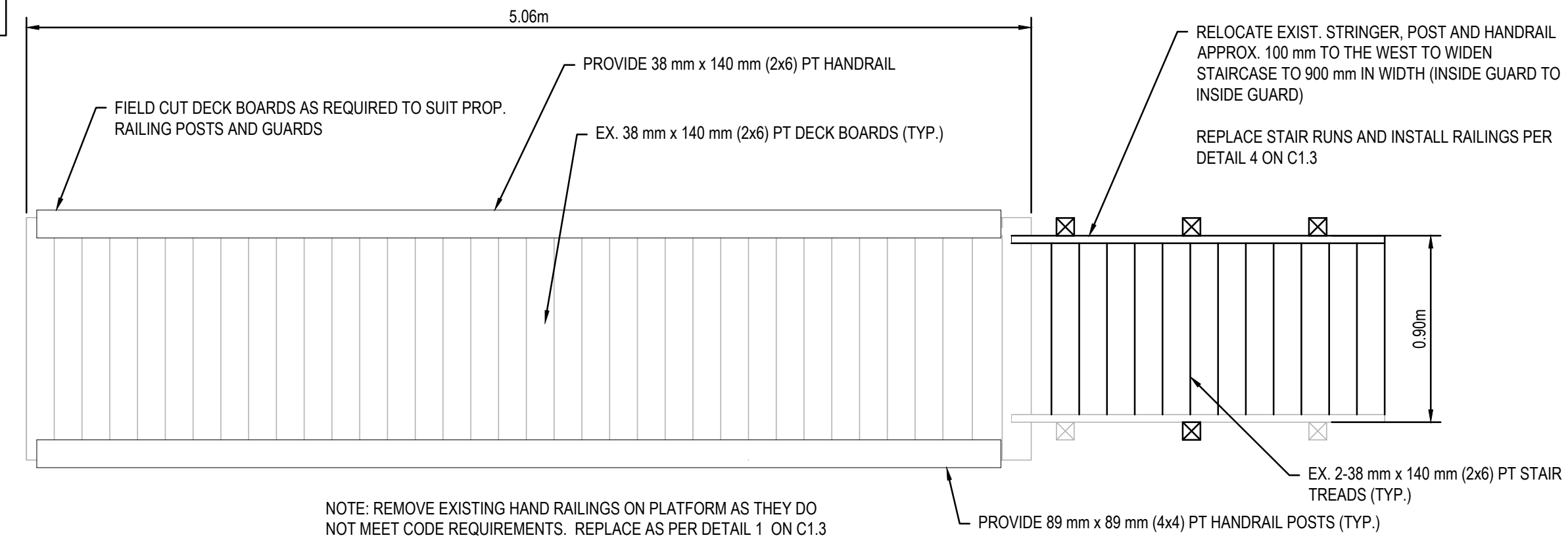
Project title / Titre du projet:
1433 PUK NP
TRAIL BRIDGE STRUCTURE
REHABILITATION PROJECT

Drawing title / Titre du dessin:
STRUCTURE 17-08

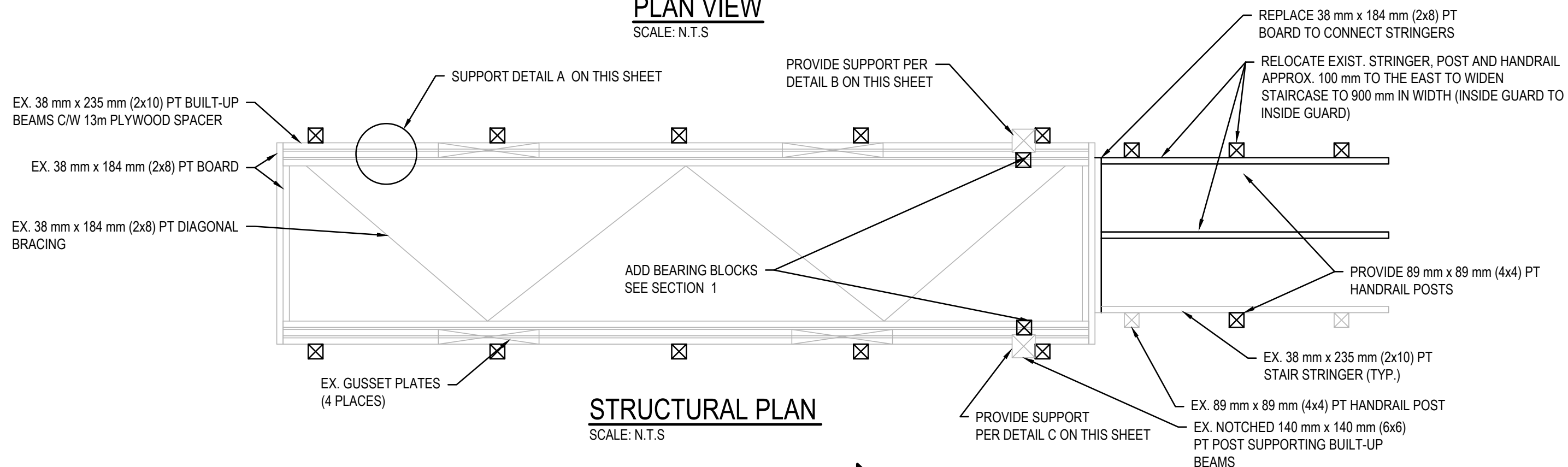
Designed by / Concept par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: M.PILON / T.PILON / R.COPPENS	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / N° du projet: 1433	Scale / Echelle: AS NOTED
Drawing Set No. / N° de série du dessin: -	Sheet No. / N° de la feuille: C1.12

STRUCTURE LOCATION

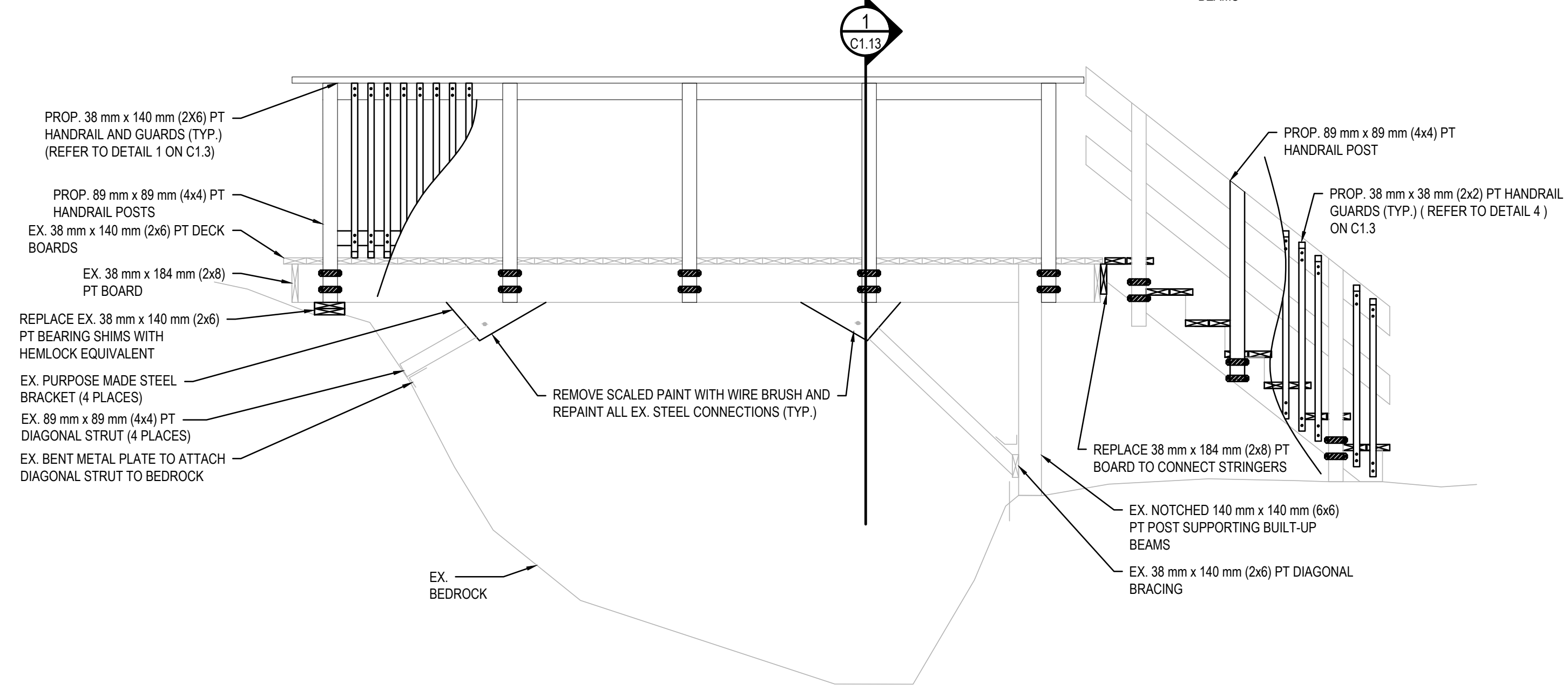
NORTHING: 5382805
EASTING: 552070



PLAN VIEW
SCALE: N.T.S.



STRUCTURAL PLAN
SCALE: N.T.S.



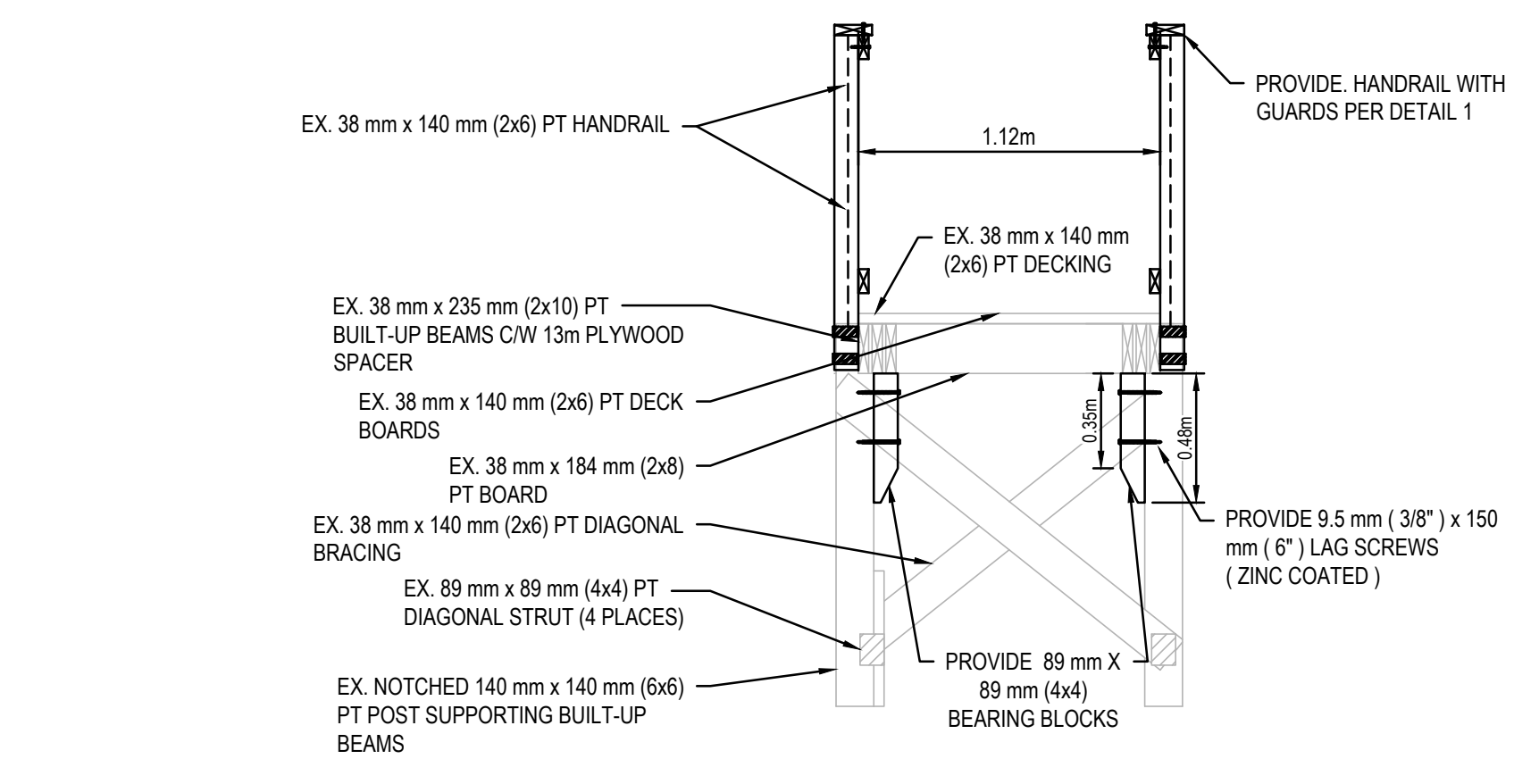
WEST ELEVATION
SCALE: N.T.S.



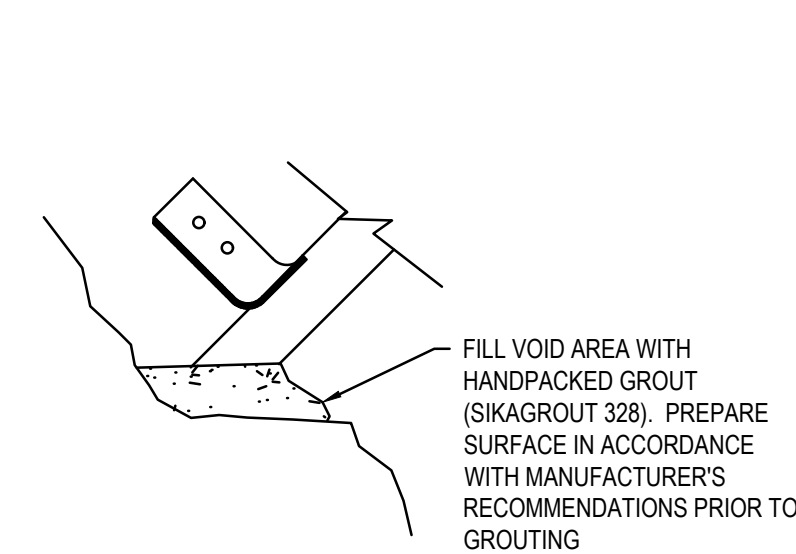
VIEW OF STRUCTURE - FACING SOUTHWEST



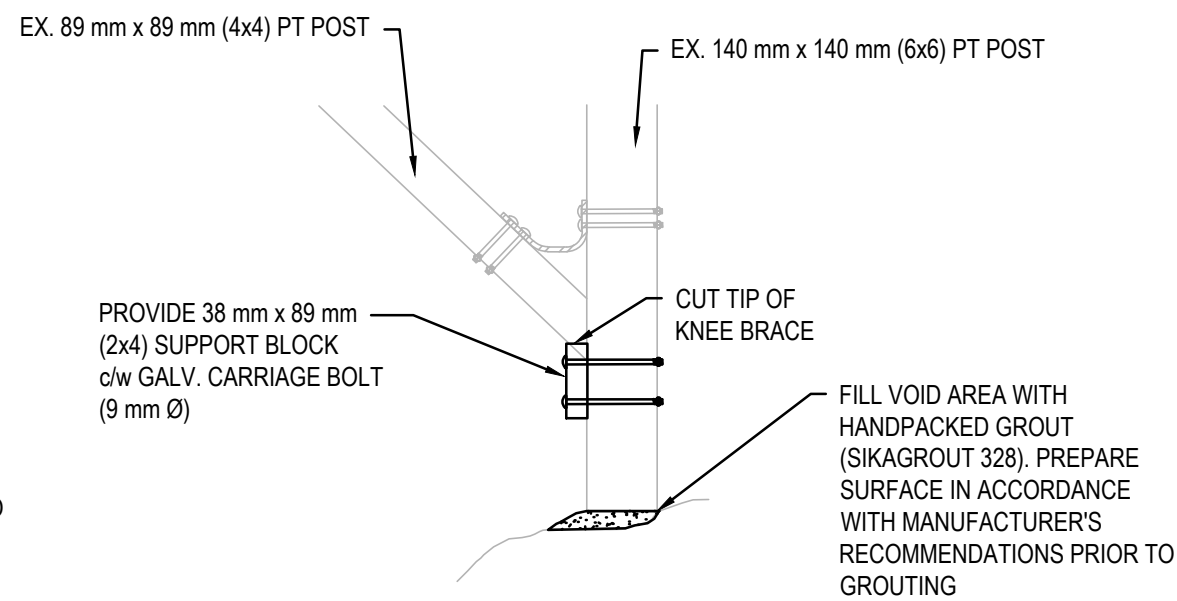
UNDERSIDE VIEW OF STRUCTURE



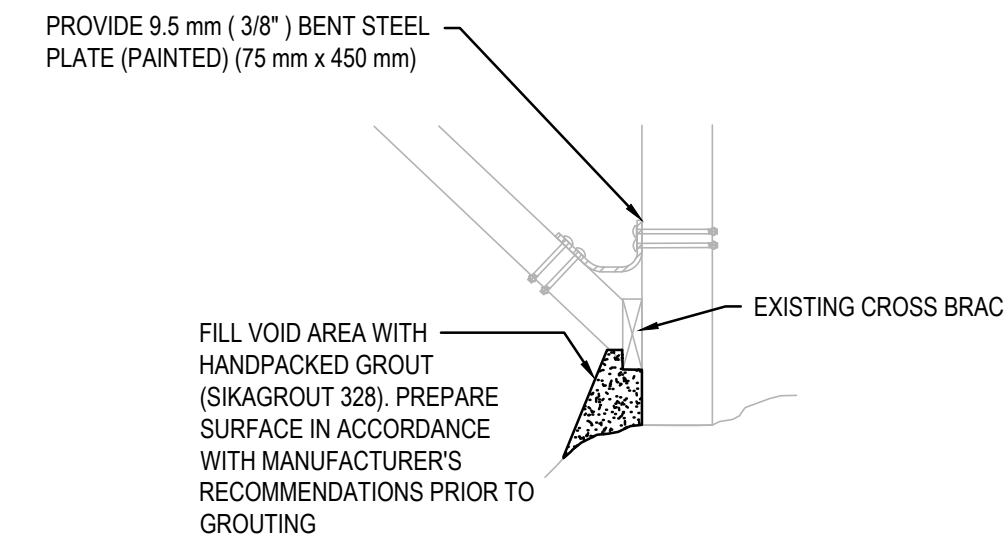
SECTION 1
SCALE: N.T.S.



SUPPORT DETAIL # A
SCALE: N.T.S.



SUPPORT DETAIL # B
SCALE: N.T.S.



SUPPORT DETAIL # C
SCALE: N.T.S.

SCOPE OF WORK:

1. KNEE BRACES & POSTS - BOTTOM ENDS OF POSTS AND LEGS TO BE GROUTED IN FULL CONTACT WITH BEDROCK AS SHOWN;
2. INSTALL NEW HAND RAILINGS AND GUARDS AS INDICATED;
3. SOUTH ABUTMENT POSTS - ADD BEARING BLOCKS TO SUPPORT BEAMS AS SHOWN;
4. RE-PAINT GUSSETS AND KNEE BRACES; AND,
5. INSTALL STRENGTHENING BRACKETS ON ALL POSTS.

KEY PLAN:



Legends:

NEW CONSTRUCTION

- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Revision / Revision

A	Detail number	A Numéro de détail
B	Sheet number	B Numéro de la feuille

Linear dimensions in millimetres / Dimensions linéaires en millimètres

Consultant's Name / Nom de l'expert-conseil: **WSP**

Eng. Stamp / Sceau de l'ingénieur: D. M. SPACEK

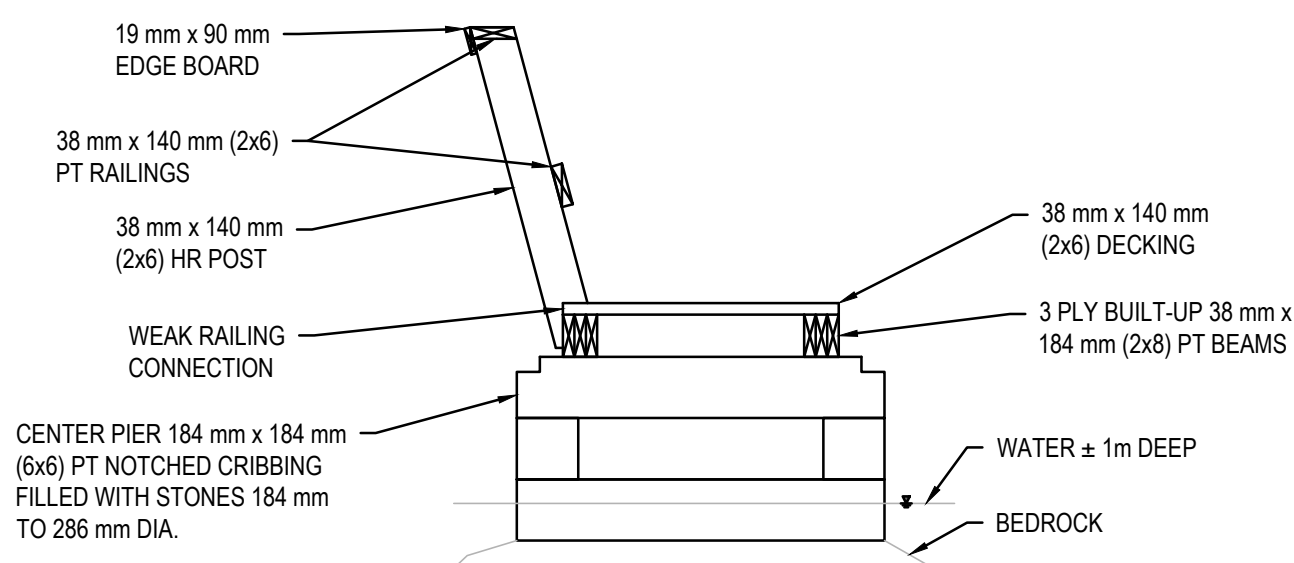
Project title / Titre du projet: **1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT**

Drawing title / Titre du dessin: **STRUCTURE 17-09**

Designed by / Concept par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: R.COPPENS	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No./N° du projet: 1433	Scale/Echelle: AS NOTED
Drawing Set No./N° de série du dessin: -	Sheet No./N° de la feuille: C1.13

STRUCTURE LOCATION

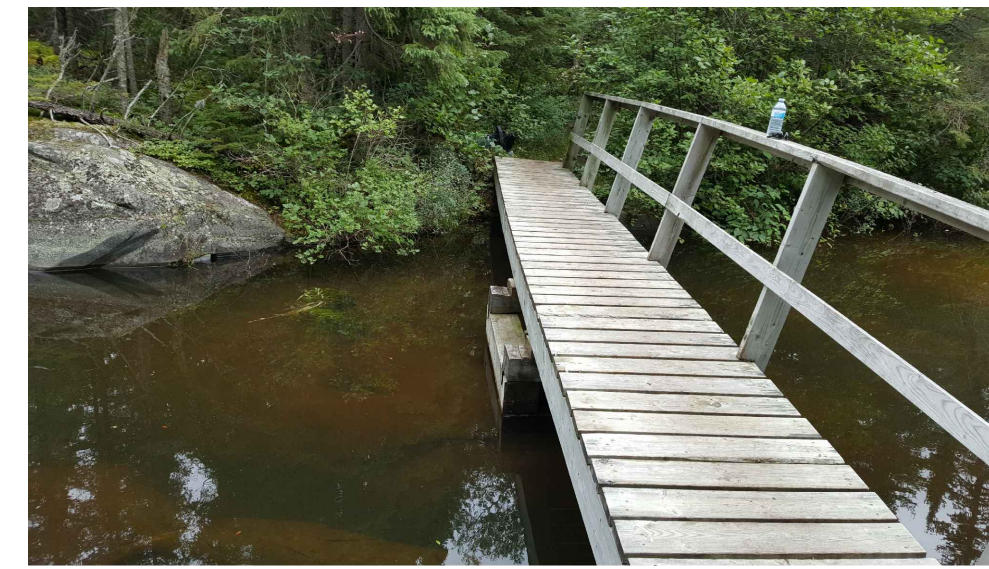
NORTHING: 5382400
EASTING: 553646



SECTION C1.14
SCALE: 1:1

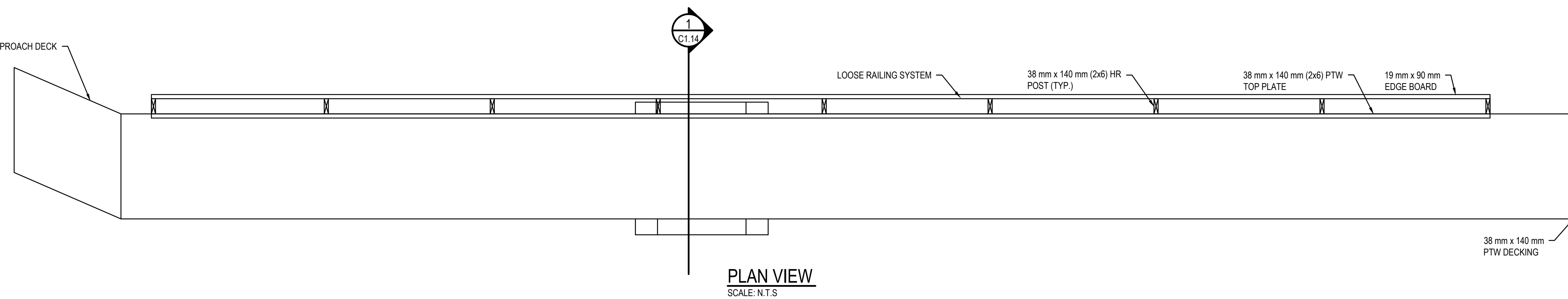


VIEW OF STRUCTURE FACING NORTH

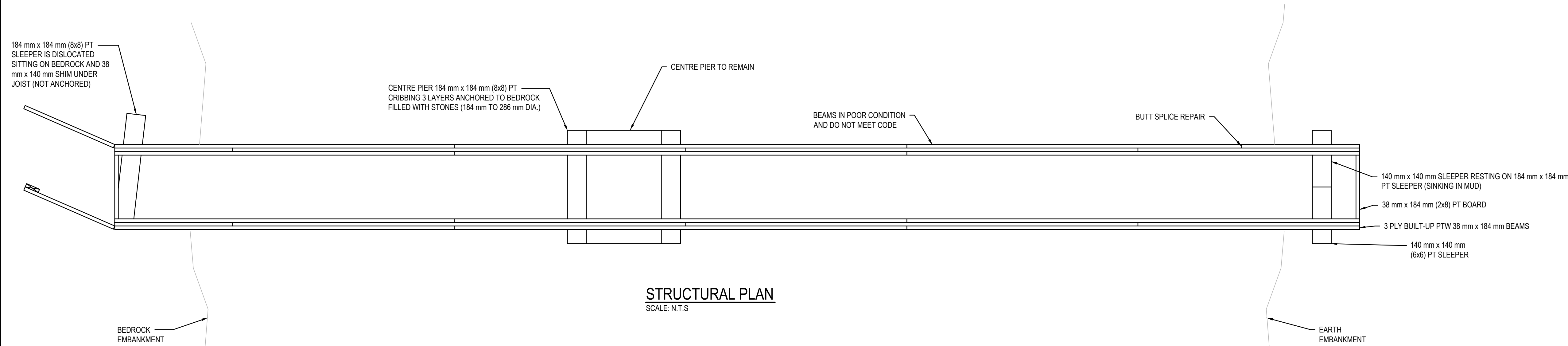


VIEW OF STRUCTURE FACING SOUTH

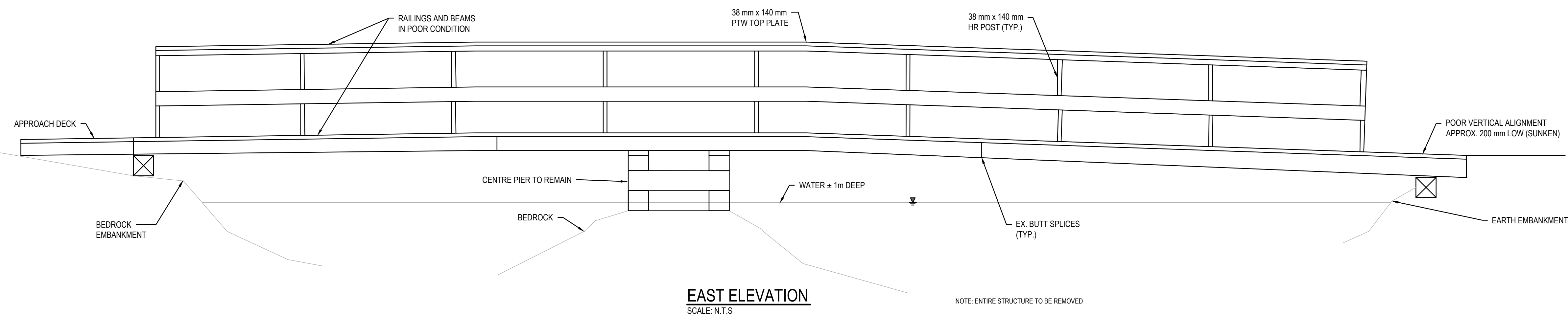
SCOPE OF WORK:
1. REMOVE EX. STRUCTURE; AND,
2. REPLACE WITH NEW.



PLAN VIEW
SCALE: N.T.S.



STRUCTURAL PLAN
SCALE: N.T.S.



EAST ELEVATION
SCALE: N.T.S.

NOTE: ENTIRE STRUCTURE TO BE REMOVED

Government of Canada / Gouvernement du Canada
Parks Canada / Parcs Canada
Northern Ontario Field Unit / Unité de gestion du Nord de l'Ontario

KEY PLAN:

Legends:

- NEW CONSTRUCTION**
- PROPOSED / TO BE PROVIDED
 - EXISTING / TO REMAIN
- REMOVALS**
- EXISTING / TO BE REMOVED
 - EXISTING / TO REMAIN

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIABLES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIABLES	D.SPACEK
B	12DEC16	99% REVIEW	VARIABLES	D.SPACEK
A	18NOV16	66% REVIEW	VARIABLES	D.SPACEK

Revision / Révision	
A	Detail number / Numéro de détail
B	Sheet number / Numéro de la feuille
Linear dimensions in millimetres / Dimensions linéaires en millimètres	

Consultant's Name / Nom de l'expert-conseil: **WSP**

Eng. Stamp / Sceau de l'ingénieur:

186 EAST STREET
SALT STEPHEN, ONTARIO, CANADA, P6A 3C8
TEL: 705-942-3070; FAX: 705-942-3532; WWW.WSPGROUP.COM
WSP-SP-2011-15-0001-001 (WSP# 151-02-15-01)

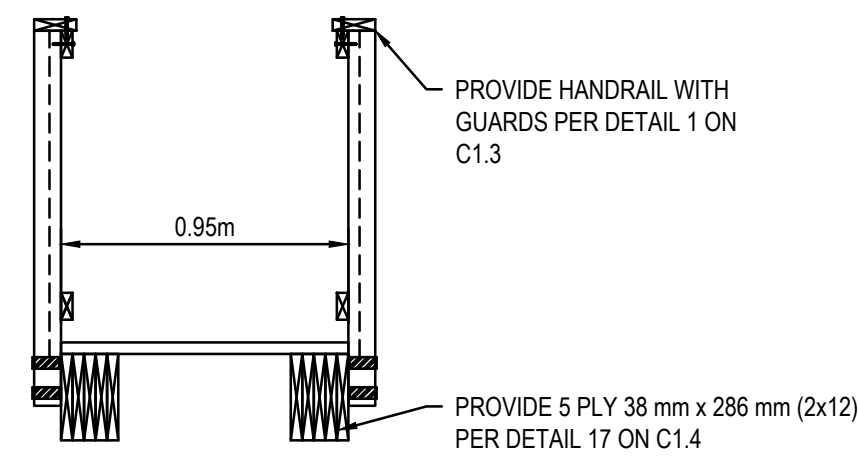
Project title / Titre du projet:
1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT

Drawing title / Titre du dessin:
STRUCTURE 17-10 SHEET 1 OF 2 (REMOVALS)

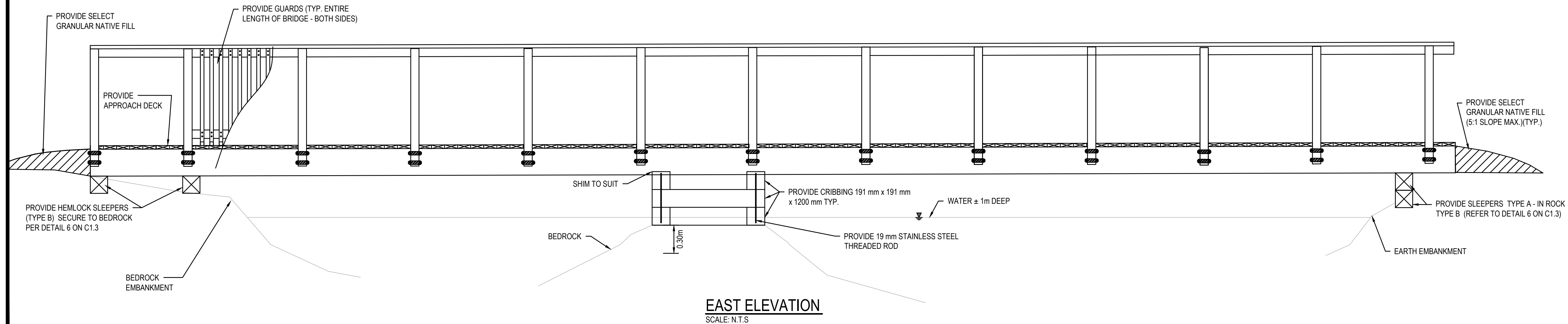
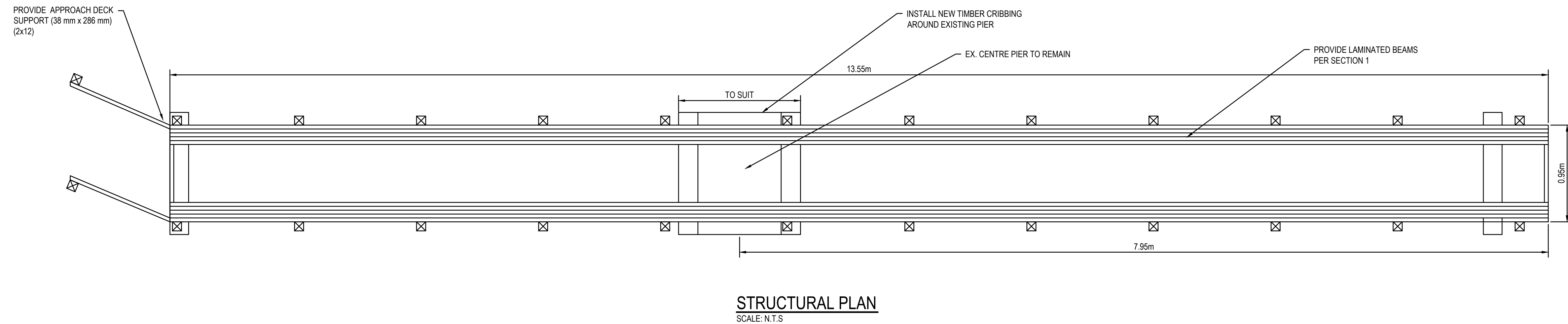
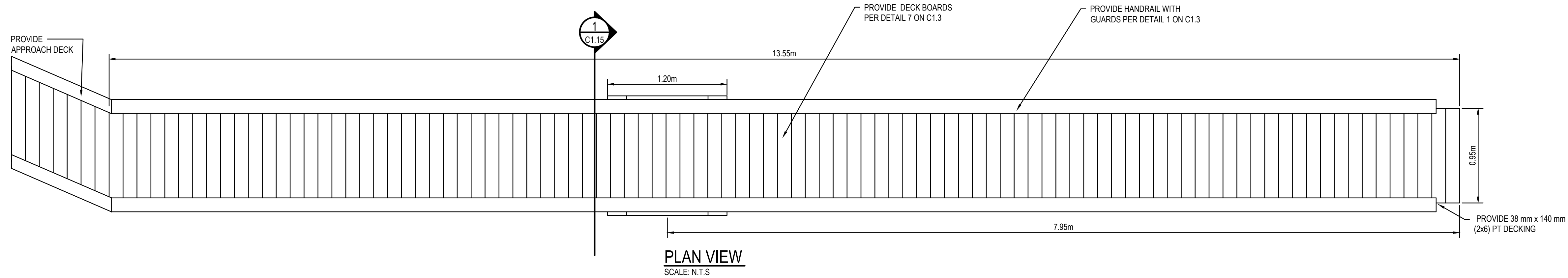
Designed by / Conçue par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: T.PILON / M.PILON / R.COPPENS	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / N° du projet: 1433	Scale / Echelle: AS NOTED
Drawing Set No. / N° de série du dessin: -	Sheet No. / N° de la feuille: C1.14

STRUCTURE LOCATION

NORTHING: 5382400
EASTING: 553646



SECTION C1.15
SCALE: 1:25



KEY PLAN:



Legends:

NEW CONSTRUCTION

- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Revision / Revision	
A	Detail number / A Numéro de détail
B	Sheet number / B Numéro de la feuille

Linear dimensions in millimetres / Dimensions linéaires en millimètres	
A	Detail number / A Numéro de détail
B	Sheet number / B Numéro de la feuille

Consultant's Name / Nom de l'expert-conseil

WSP

186 EAST STREET
SALT STEPHEN ONTARIO CANADA P6A 3C8
TEL: 705-842-3070 / FAX: 705-842-3532 / WWW.WSPGROUP.COM
WSP-SP-201-15-0001-001 (WSP# 151-001-05-01)

Eng. Stamp / Sceau de l'ingénieur

D. G. SPACEK
PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

Project title / Titre du projet

1433 PUK NP
TRAIL BRIDGE STRUCTURE
REHABILITATION PROJECT

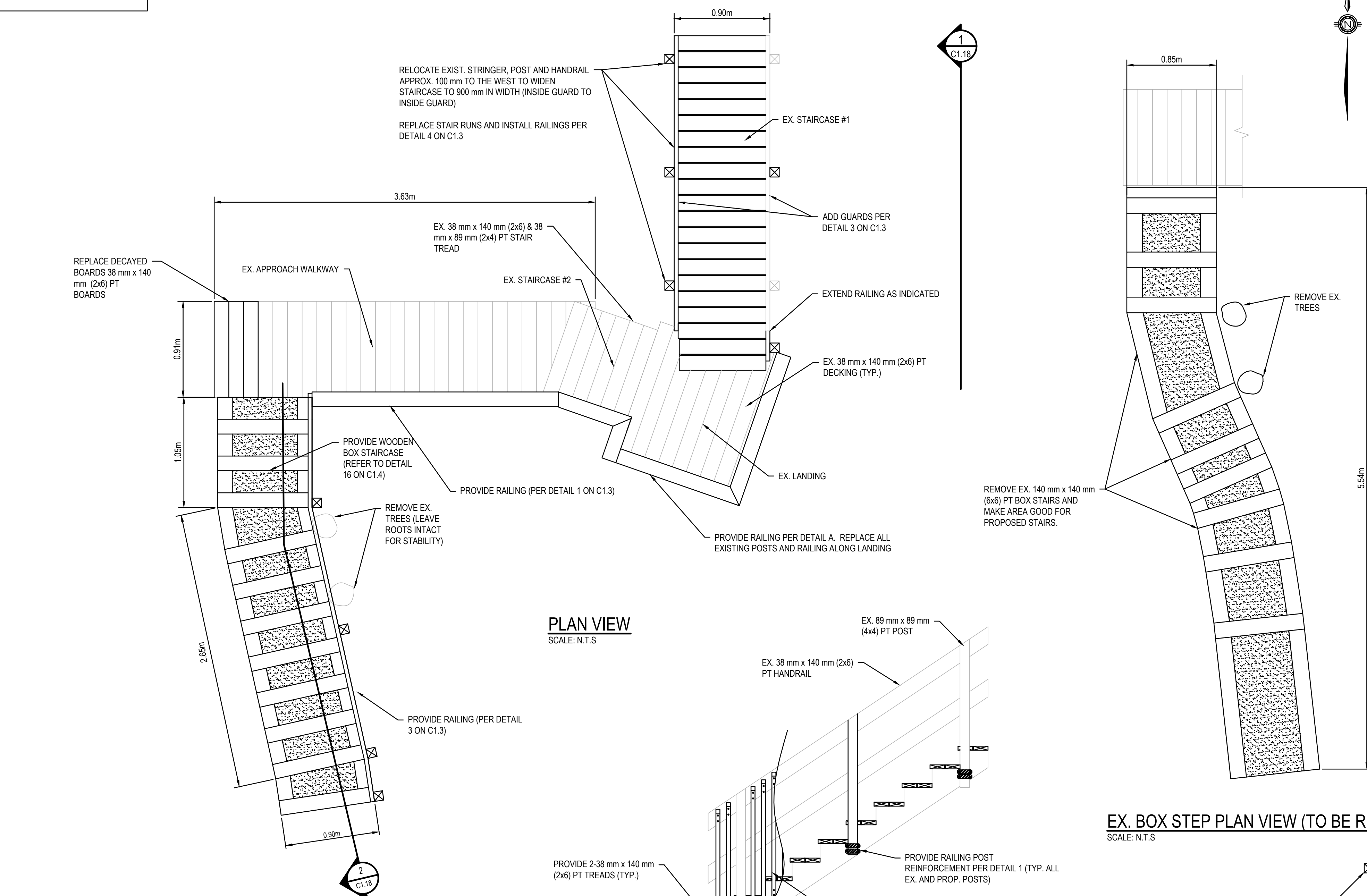
Drawing title / Titre du dessin

STRUCTURE 17-10
SHEET 2 OF 2
(NEW CONSTRUCTION)

Designed by / Conçeut par	M.PILON / A.MALLETTE	Date	MAR 23, 2017
Drawn by / Dessiné par	T.PILON / M.PILON / R.COPPENS	Date	MAR 23, 2017
Checked by / Vérifié par	D.SPACEK	Date	MAR 23, 2017
Approved by / Approuvé par	D.SPACEK	Date	MAR 23, 2017
Project No. / N° du projet	1433	Scale / Echelle	AS NOTED
Drawing Set No. / N° de série du dessin	-	Sheet No. / N° de la feuille	C1.15

STRUCTURE LOCATION

NORTHING: 5382509
EASTING: 551980



PLAN VIEW
SCALE: N.T.S.

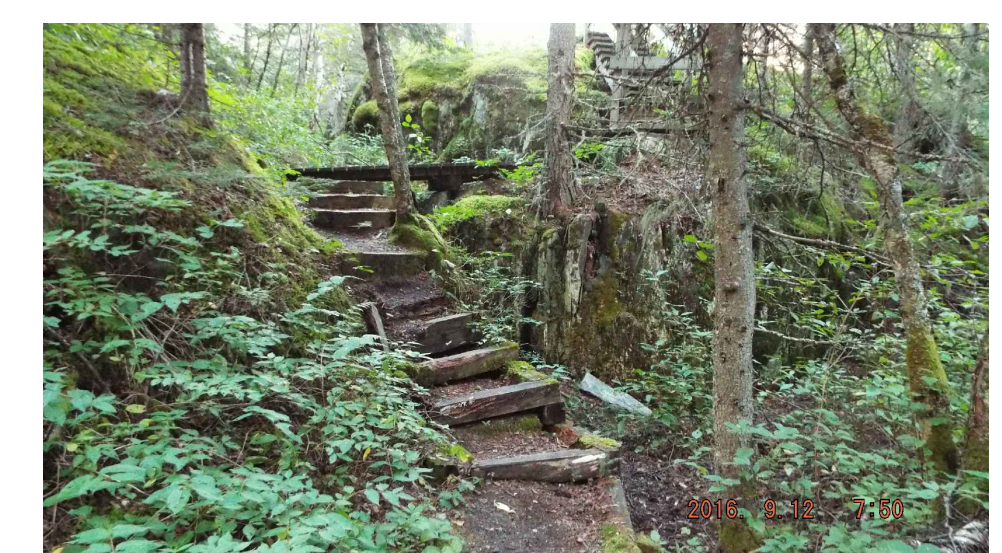
SECTION
SCALE: N.T.S.

SECTION
SCALE: N.T.S.

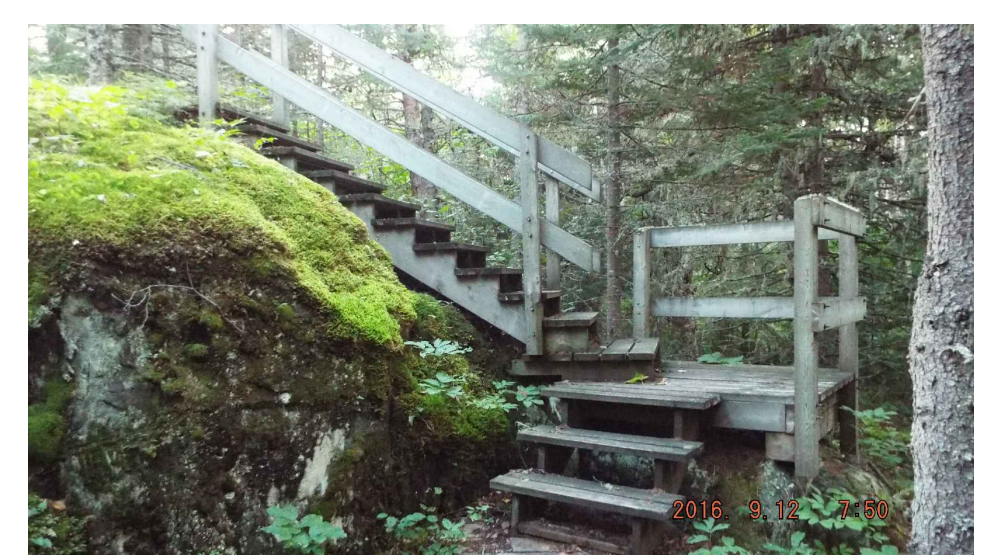
EX. BOX STEP PLAN VIEW (TO BE REMOVED)
SCALE: N.T.S.

STRUCTURAL PLAN
SCALE: N.T.S.

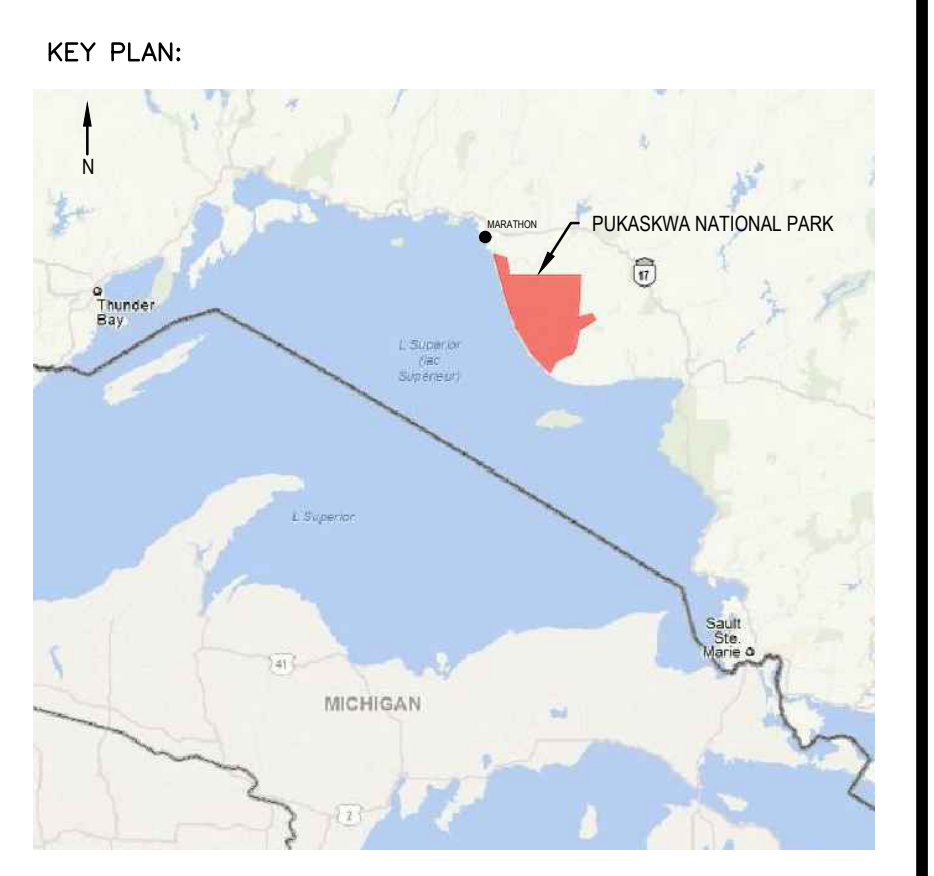
- SCOPE OF WORK:
1. REPLACE BOX STAIRS AT BOTTOM END OF STAIRWAYS WITH SIMILAR SYSTEM. WOOD TIMBER BOX FRAMING INFILLED WITH EARTH;
 2. INSTALL HAND-PACKED GROUT AT LANDING AS INDICATED;
 3. REPLACE DECAYED DECK BOARDS AT WEST END OF APPROACH WALKWAY;
 4. INSTALL HANDRAIL FOR FIRST FLIGHT OF STAIRS (WEST SIDE ONLY); MID-LEVEL WALKWAY (APPROX. 3);
 5. INSTALL AND/OR REPLACE RAILINGS AND GUARDS AS SHOWN;
 6. WIDEN STAIRCASE 1 AS INDICATED;
 7. RE-LEVEL WALKWAY;
 8. MODIFY STRUCTURAL FRAMING AS SHOWN;
 9. SUPPORT WALKWAY AND WEST SIDE OF LANDING, AND;
 10. STRENGTHEN EXISTING POSTS AS INDICATED.



VIEW OF EX. BOX STAIRS FACING NORTH



VIEW OF EX. LANDING FACING NORTHEAST



- Legends:
- NEW CONSTRUCTION**
- PROPOSED / TO BE PROVIDED
 - EXISTING / TO REMAIN
- REMOVALS**
- EXISTING / TO BE REMOVED
 - EXISTING / TO REMAIN

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACKEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACKEK
B	12DEC16	99% REVIEW	VARIES	D.SPACKEK
A	18NOV16	66% REVIEW	VARIES	D.SPACKEK

Revision / Révision	
A	Detail number / Numéro de détail
B	Sheet number / Numéro de la feuille

Linear dimensions in millimetres / Dimensions linéaires en millimètres

Consultant's Name / Nom de l'expert-conseil: **WSP**

Eng. Stamp / Sceau de l'ingénieur: **D. M. SPACKEK**

Project title / Titre du projet: **1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT**

Drawing title / Titre du dessin: **STRUCTURE 17-15**

Designed by/Concept par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by/Dessiné par: M.PILON / T.PILON / R.COPPENS	Date: MAR 23, 2017
Checked by/Vérifié par: D.SPACKEK	Date: MAR 23, 2017
Approved by/Approuvé par: D.SPACKEK	Date: MAR 23, 2017
Project No./N° du projet: 1433	Scale/Échelle: AS NOTED
Drawing Set No./N° de série du dessin: -	Sheet No./N° de la feuille: C1.18

STRUCTURE LOCATION

NORTHING: 5382530
EASTING: 552061

SCOPE OF WORK:

1. ADD ADDITIONAL ANCHOR PLATES ON OPPOSITE FACES OF KNEE BRACES INTO BEDROCK;
2. BEAMS - ADD SCREWS TO TIGHTEN THE GAPS BETWEEN LAMINATIONS;
3. HAMMER LOOSE NAILS IN DECKING;
4. ADD ADDITIONAL NAILS IN LAMINATED BEAMS PER DETAIL 17;
5. REPLACE EX. HAND RAILS WITH NEW HAND RAILS AND GUARDS AS INDICATED; AND,
6. PAINT STEEL GUSSET BRACKETS.



KEY PLAN:



Legends:

NEW CONSTRUCTION

- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Revision / Revision

A	B	Detail number / Numéro de détail	A	B	Sheet number / Numéro de la feuille

Linear dimensions in millimetres / Dimensions linéaires en millimètres

Consultant's Name / Nom de l'expert-conseil: **WSP**

186 EAST STREET
SUITE 200, WILSON AVENUE, SUITE 200
TEL: 705-942-3770 / FAX: 705-942-3532 / WWW.WSPGROUP.COM
WSP-SP-2011-15-0001-001 (WSP# 151-02155-07)

Eng. Stamp / Sceau de l'ingénieur: **D. SPACEK**

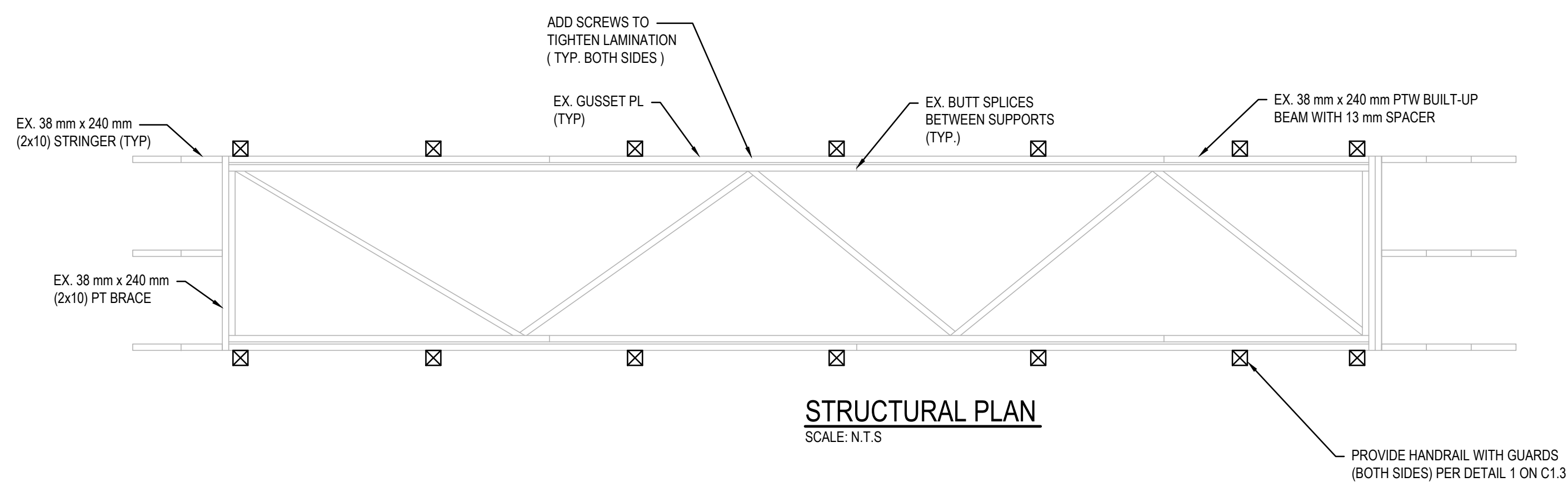
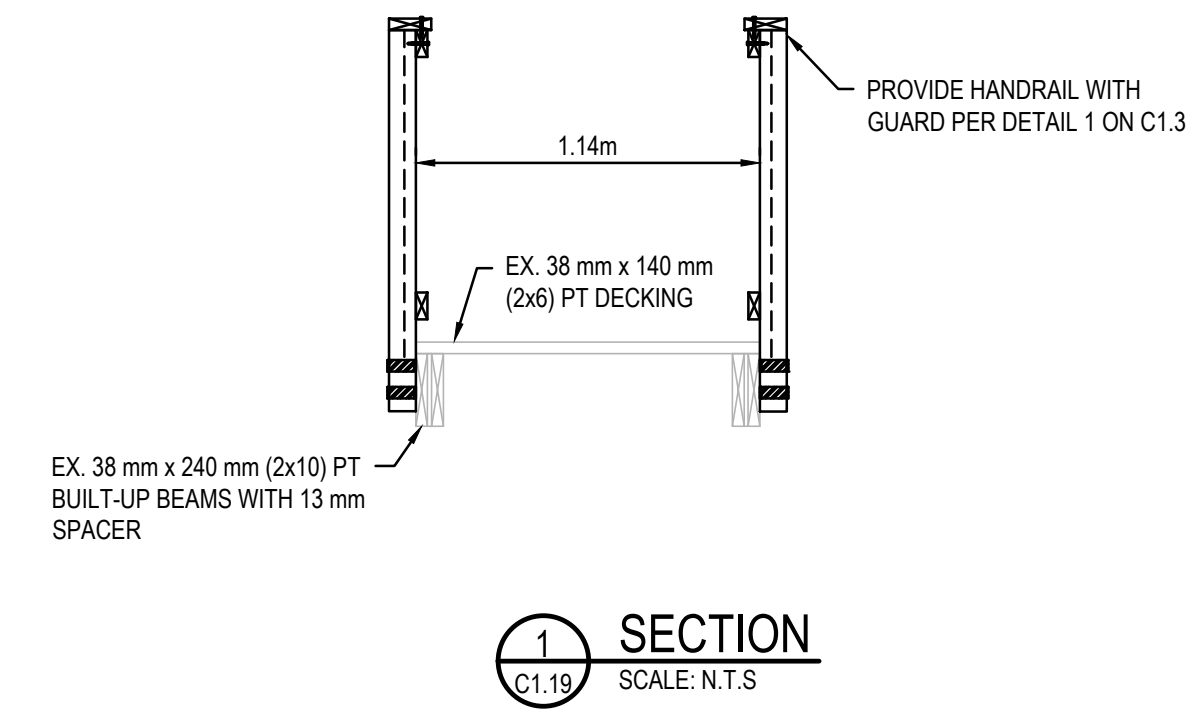
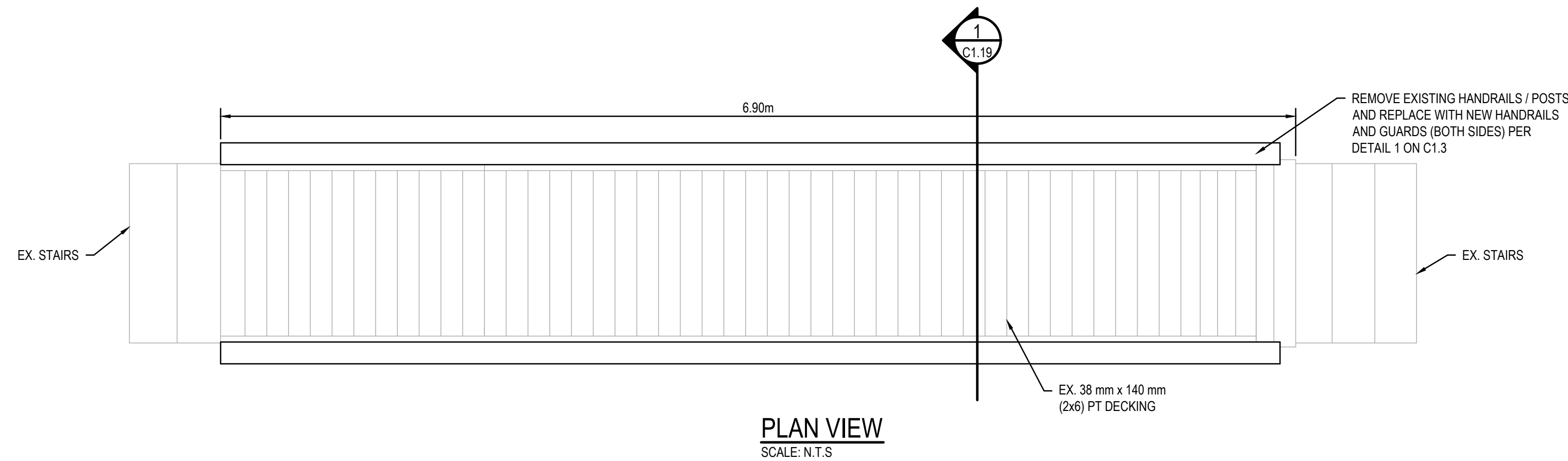
Project title / Titre du projet

1433 PUK NP
TRAIL BRIDGE STRUCTURE
REHABILITATION PROJECT

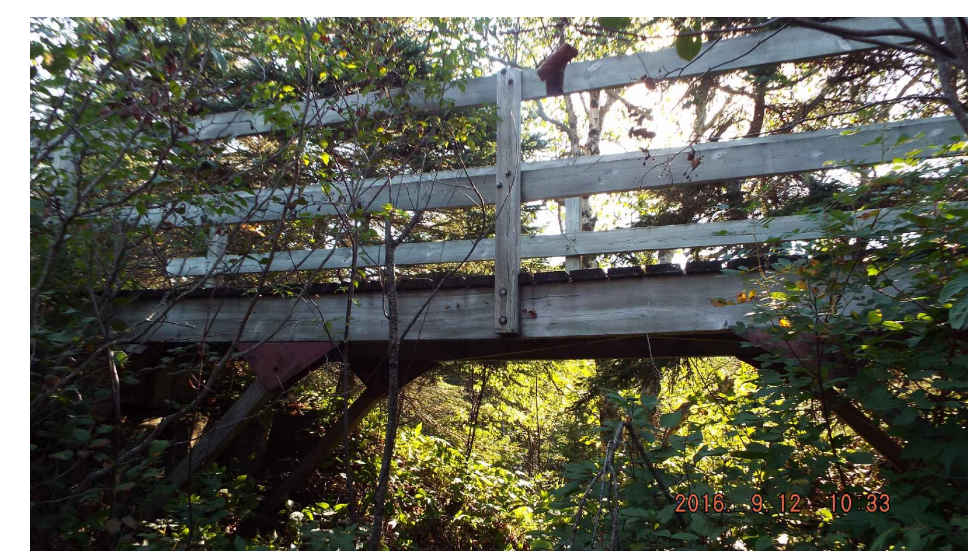
Drawing title / Titre du dessin

STRUCTURE 17-16

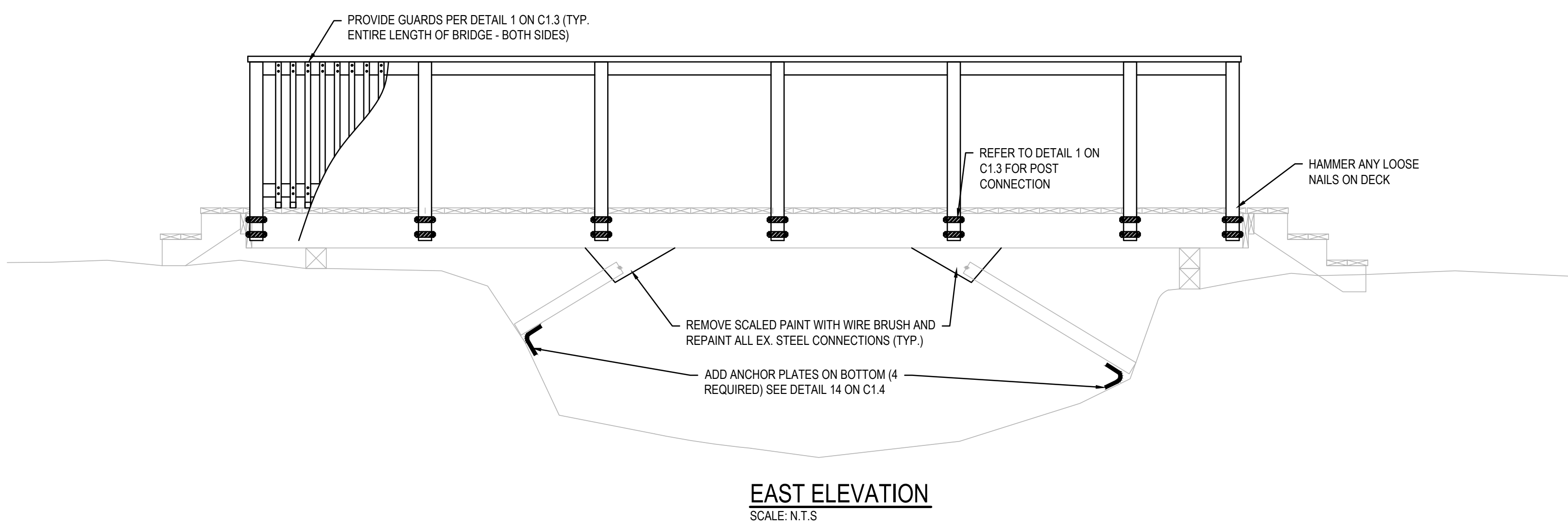
Designed by / Concept par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: T.PILON / M.PILON / R.COPPENS	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / N° du projet: 1433	Scale / Echelle: AS NOTED
Drawing Set No. / N° de série du dessin: -	Sheet No. / N° de la feuille: C1.19



VIEW OF STRUCTURE FACING SOUTH



VIEW OF STRUCTURE FACING WEST

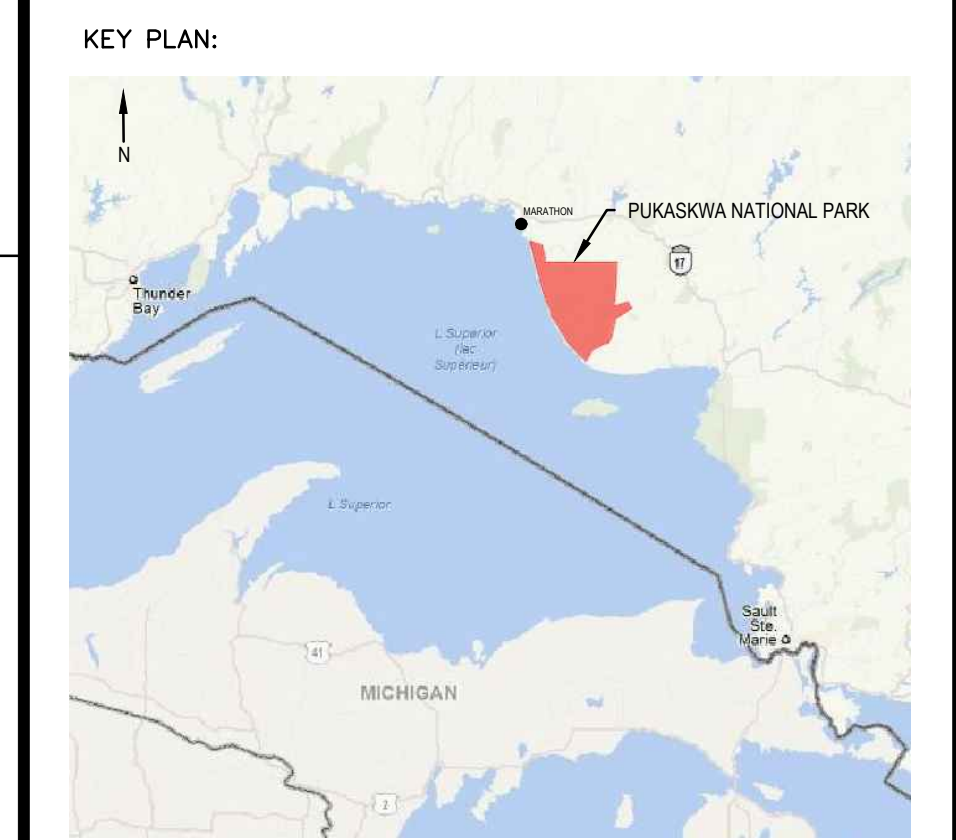


STRUCTURE LOCATION

NORTHING: 5382565
EASTING: 552359



- SCOPE OF WORK:**
1. INSTALL RAILINGS AND GUARDS AS INDICATED.
 2. APPROACH WALKWAY - ADD CENTRE BEAM UNDER JOISTS;
 3. REPLACE SPLIT DECK BOARD AT LANDING #2;
 4. REPLACE DECAYED DECK BOARDS AND TREADS (APPROX. 10);
 5. ADD CONC. BEARING PADS AS INDICATED;
 6. EXTEND BOTTOM LANDING;
 7. ADD RAILING POSTS WHERE INDICATED;
 8. ADD PROPER GUARDS TO EXISTING RAILINGS; AND,
 9. STRENGTHEN ALL EX. HANDRAIL POSTS AS SHOWN.



- Legends:**
- NEW CONSTRUCTION**
- PROPOSED / TO BE PROVIDED
 - EXISTING / TO REMAIN
- REMOVALS**
- EXISTING / TO BE REMOVED
 - EXISTING / TO REMAIN

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Revision / Révision	
A	Detail number / Numéro de détail
B	Sheet number / Numéro de la feuille
Linear dimensions in millimetres / Dimensions linéaires en millimètres	

Consultant's Name / Nom de l'expert-conseil: **WSP**

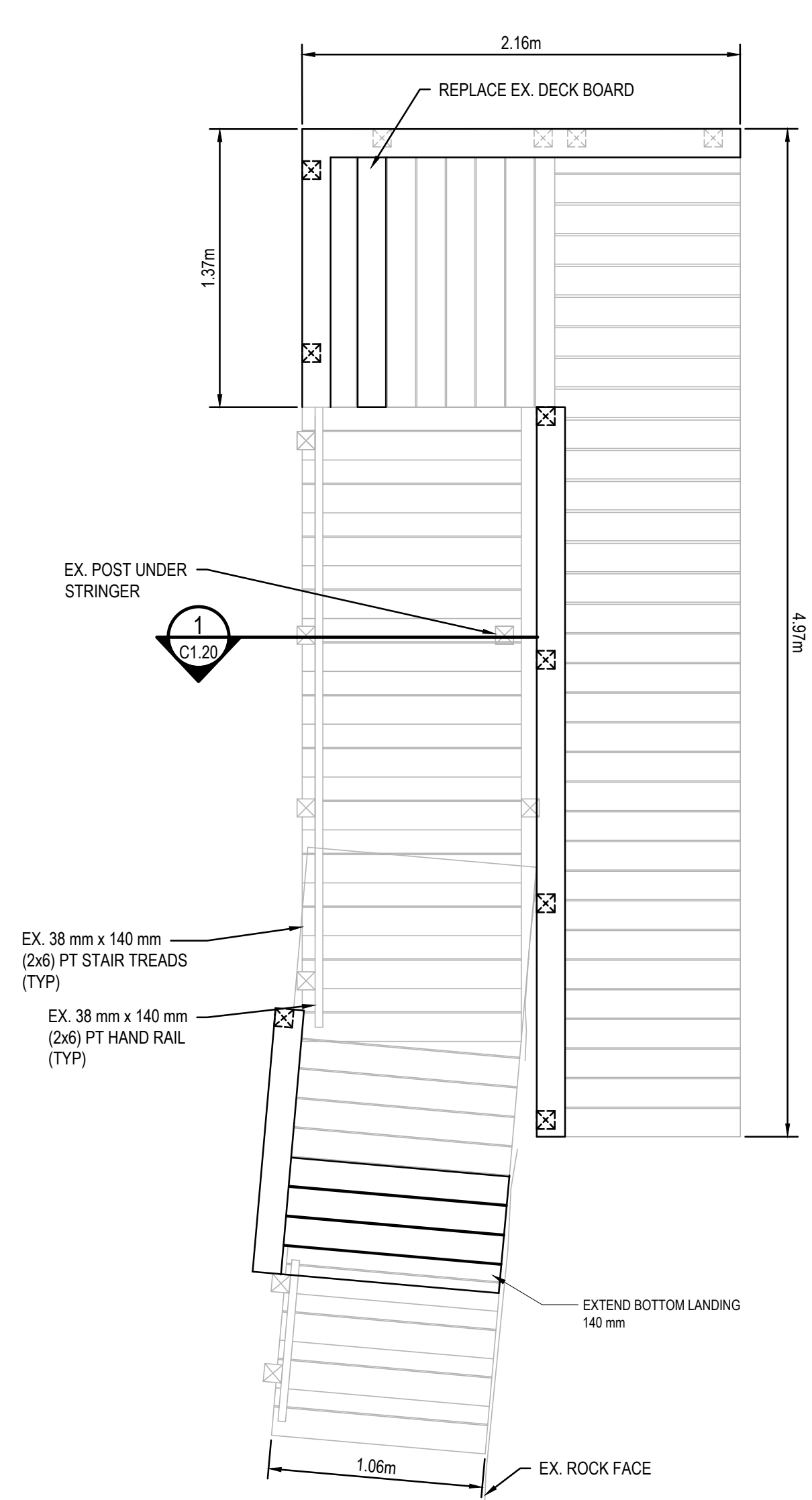
Eng. Stamp / Sceau de l'ingénieur: **D. M. SPACEK**

180 EAST STREET
SUITE 101, WILSONVILLE, ONTARIO, CANADA, L9A 3C8
TEL.: 705-942-3070 / FAX: 705-942-3532 / WWW.WSPGROUP.COM
WSP-SP-2011-15-0001-001 (WSP# 151-00105-07)

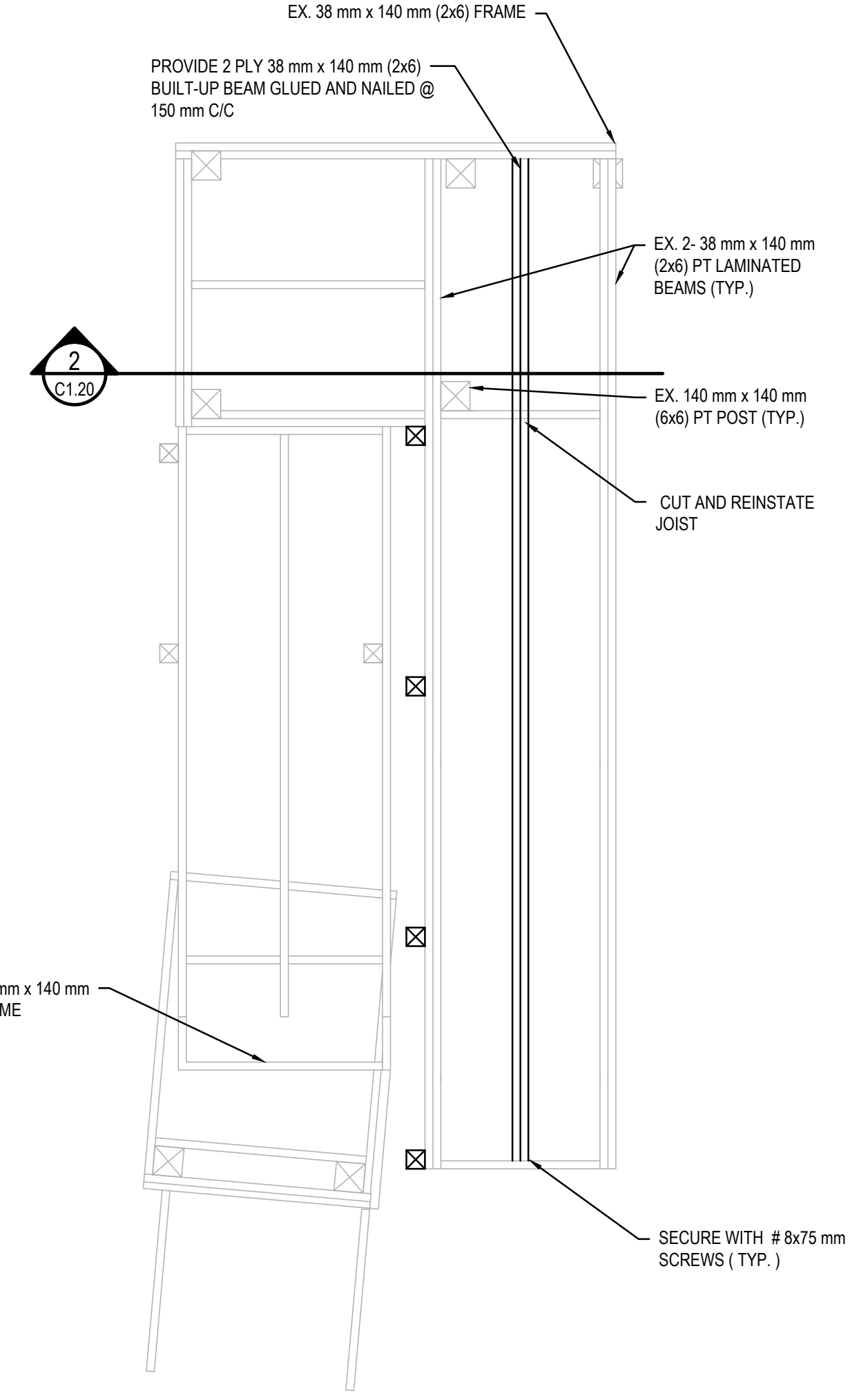
Project title / Titre du projet:
1433 PUK NP
TRAIL BRIDGE STRUCTURE
REHABILITATION PROJECT

Drawing title / Titre du dessin:
STRUCTURE 17-17

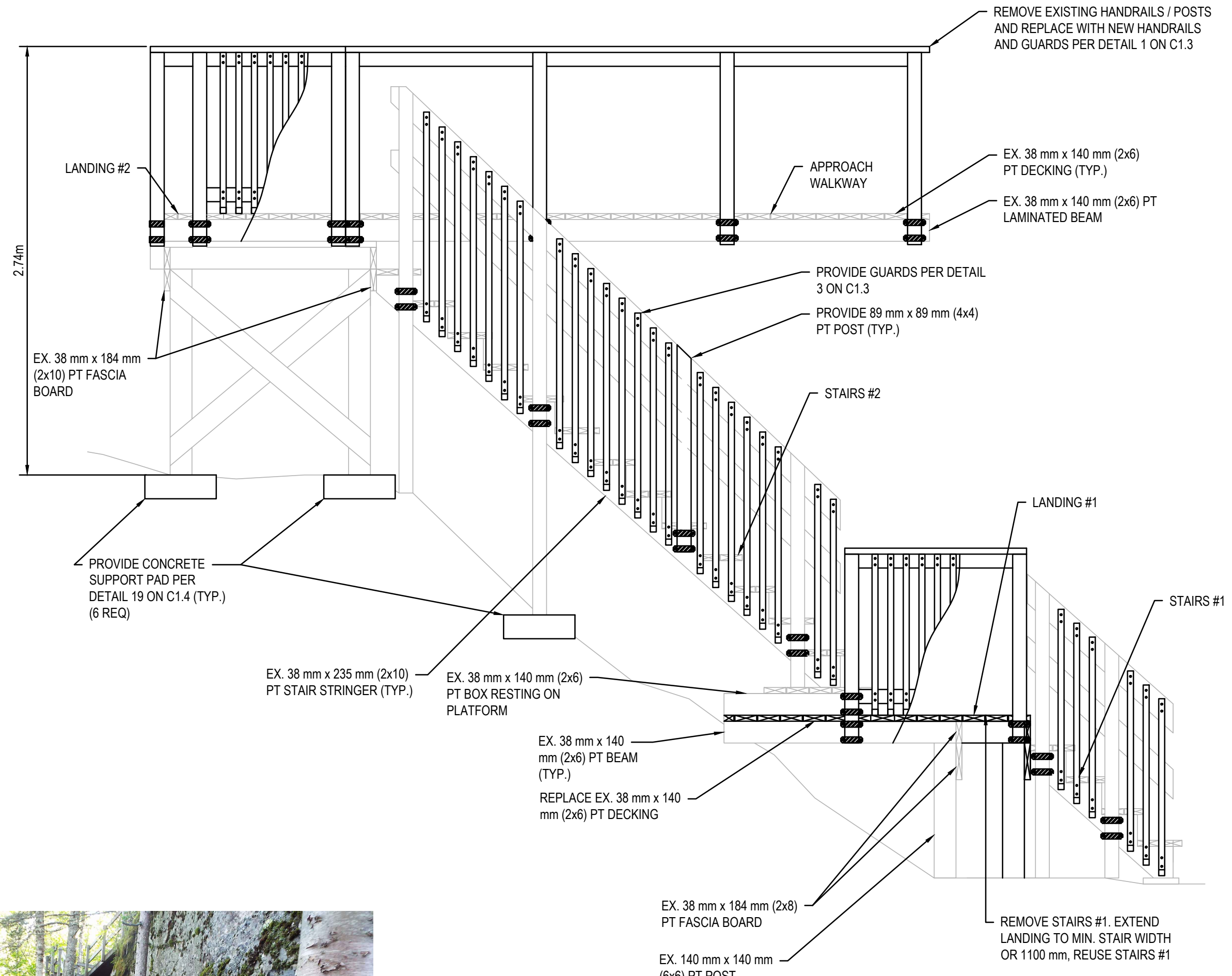
Designed by / Concept par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: T.PILON / M.PILON / R.COPPENS	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / N° du projet: 1433	Scale / Echelle: AS NOTED
Drawing Set No. / N° de série du dessin: -	Sheet No. / N° de la feuille: C1.20



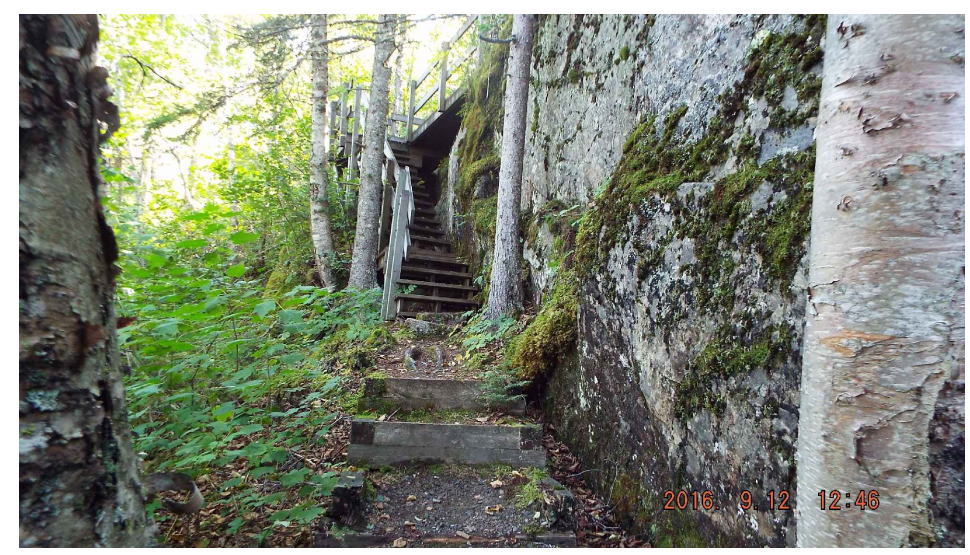
PLAN VIEW
SCALE: N.T.S.



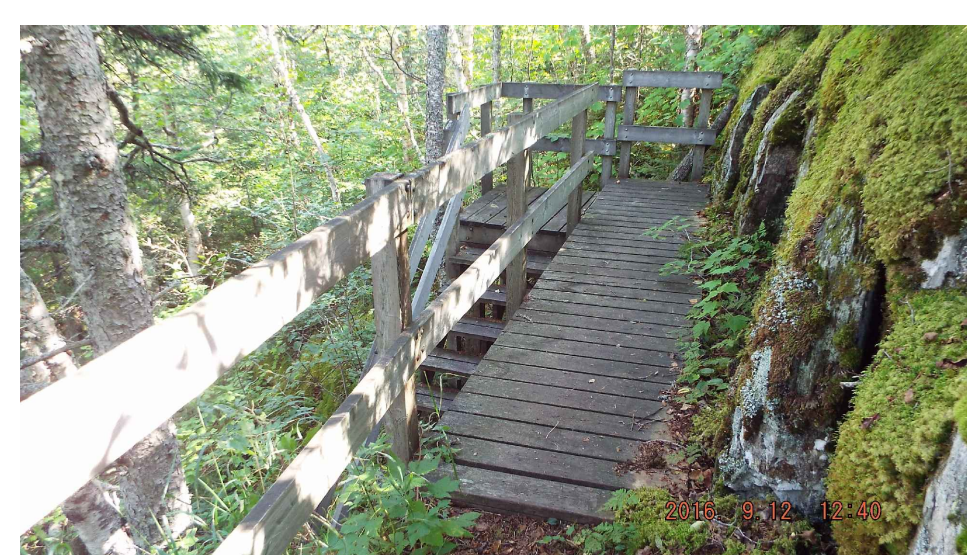
STRUCTURAL PLAN
SCALE: N.T.S.



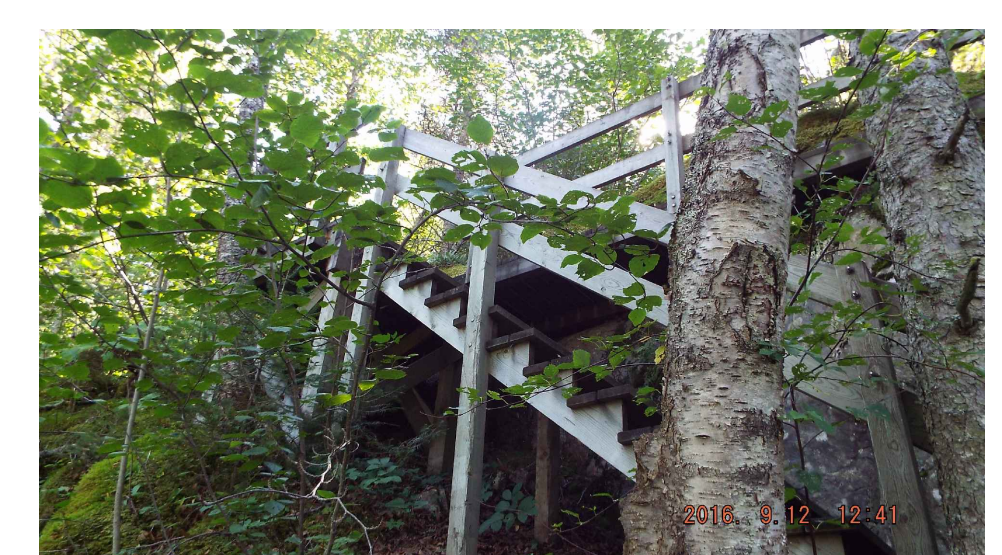
SOUTH ELEVATION
SCALE: N.T.S.



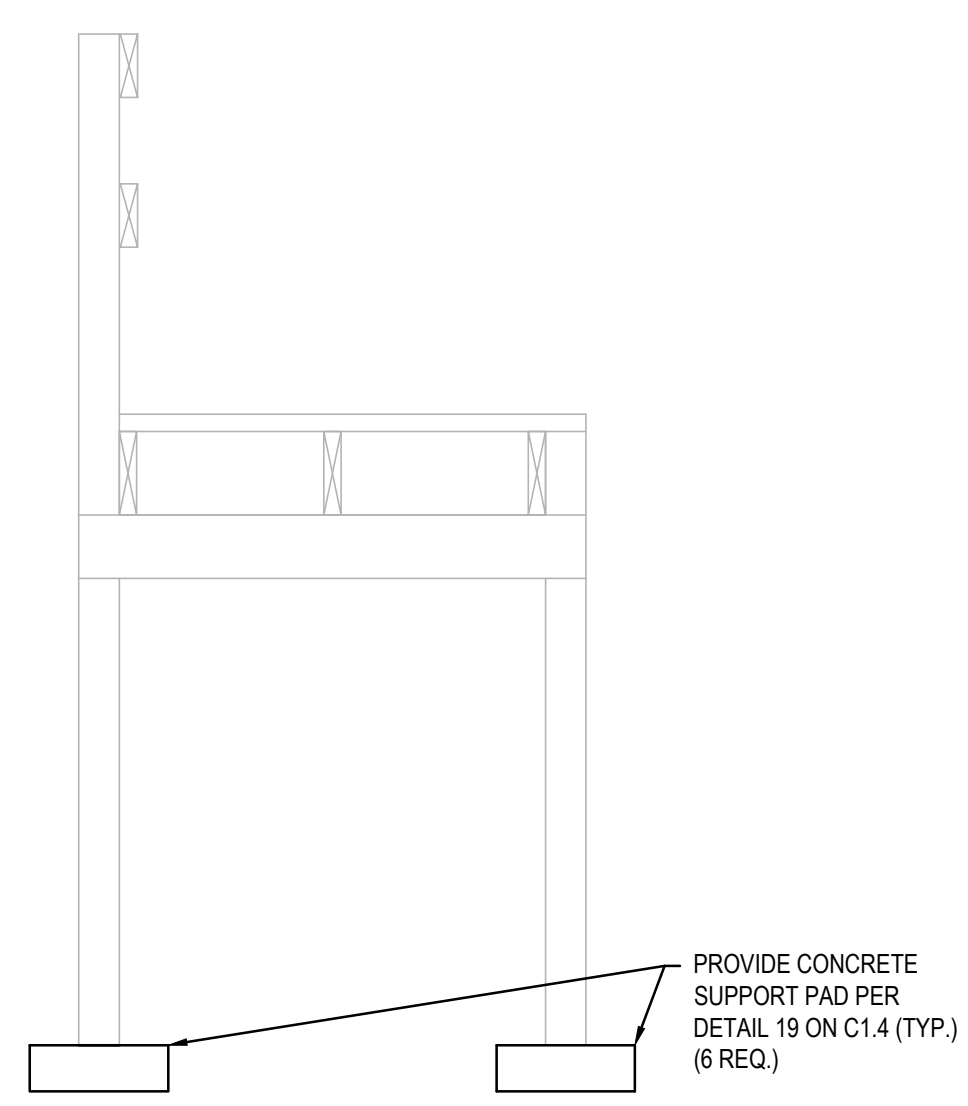
VIEW OF STRUCTURE FACING EAST



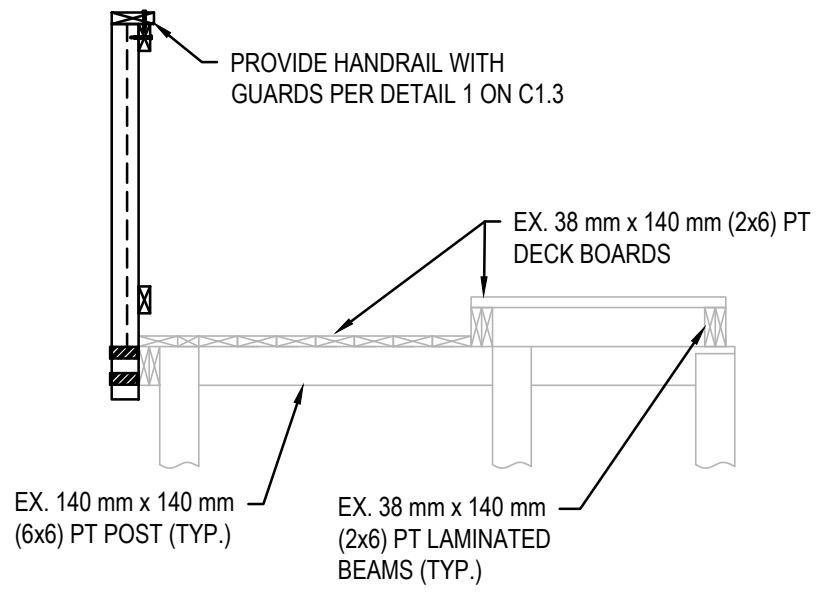
VIEW OF STRUCTURE FACING EAST



VIEW OF STRUCTURE FACING SOUTHEAST



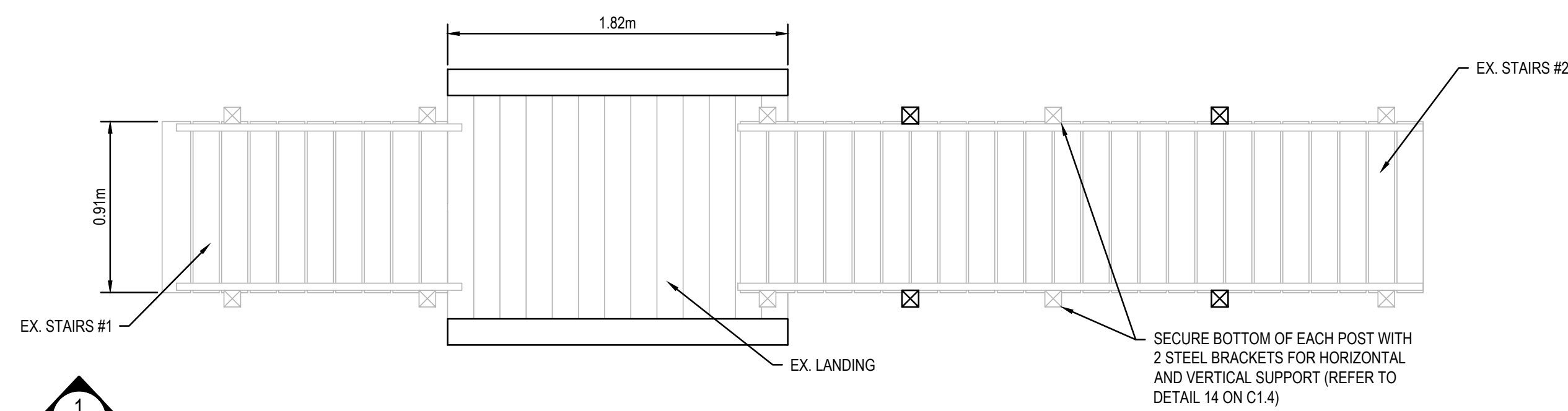
SECTION 1
SCALE: N.T.S.



SECTION 2
SCALE: N.T.S.

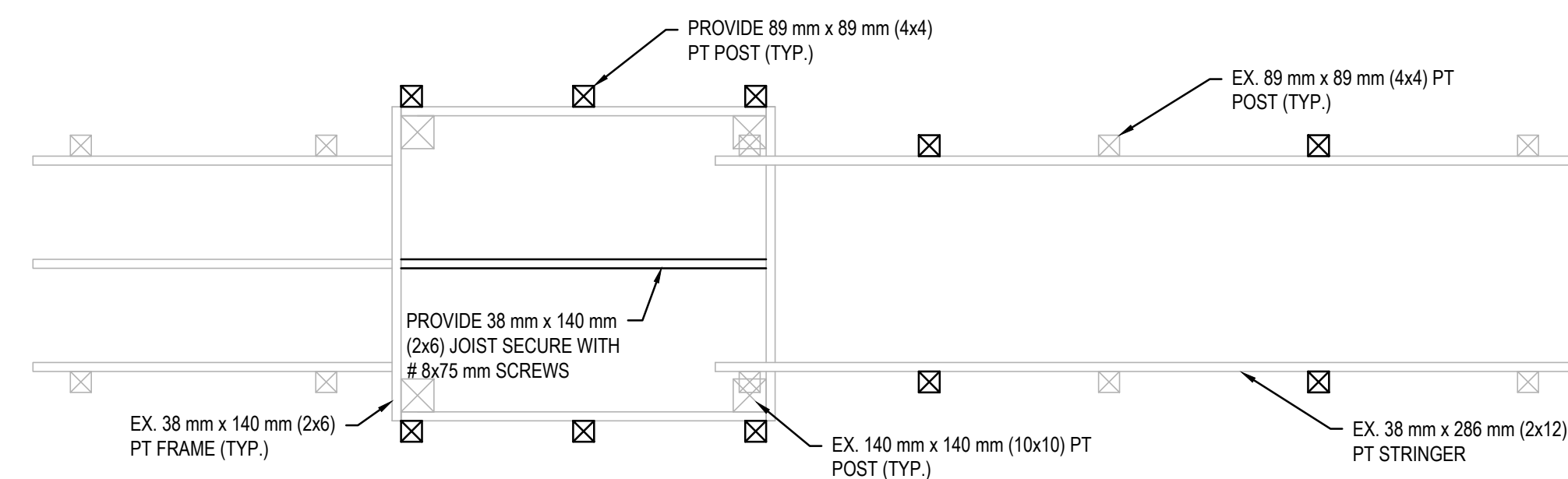
STRUCTURE LOCATION

NORTHING: 5382749
EASTING: 552232



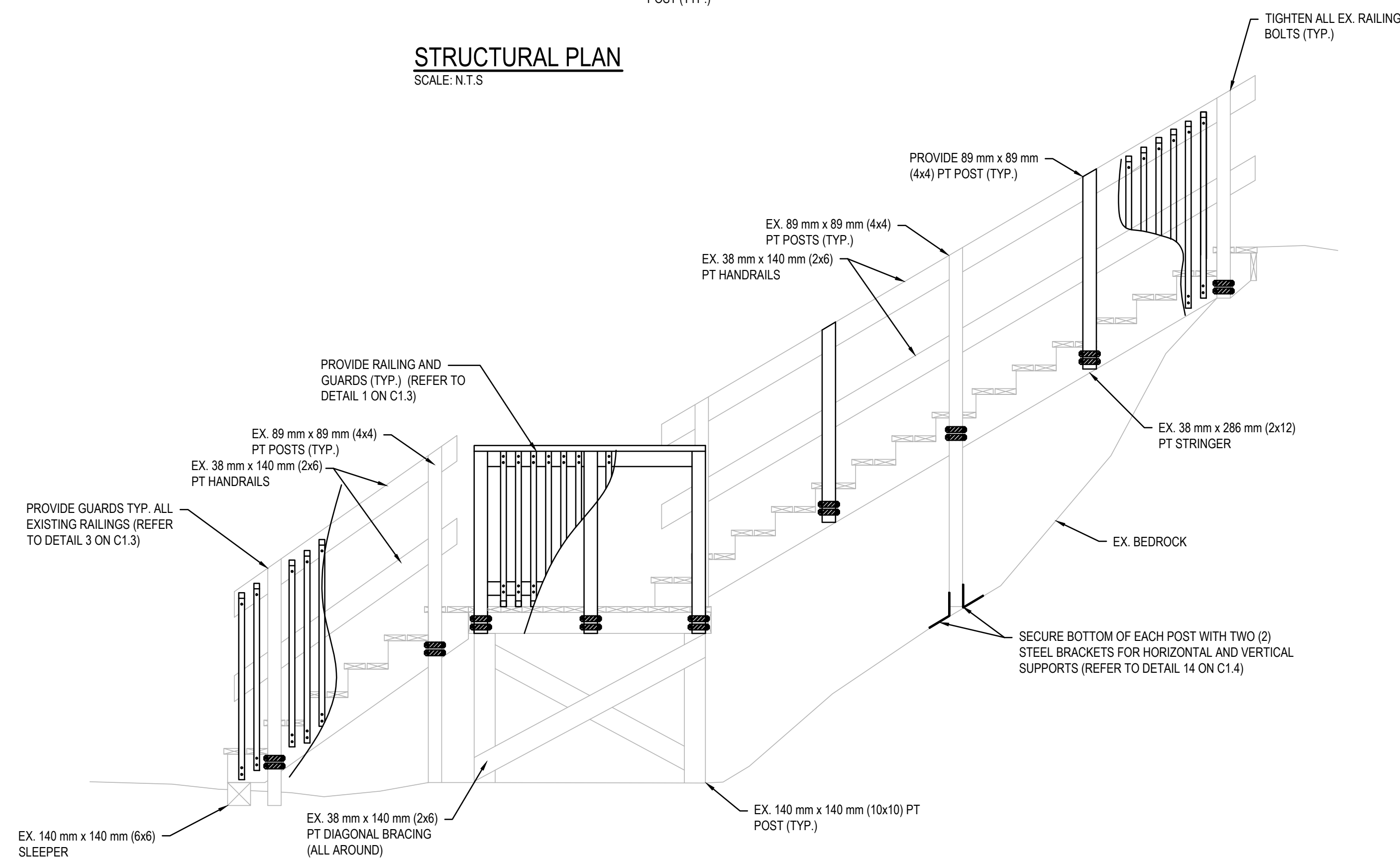
PLAN VIEW

SCALE: N.T.S.



STRUCTURAL PLAN

SCALE: N.T.S.



SECTION

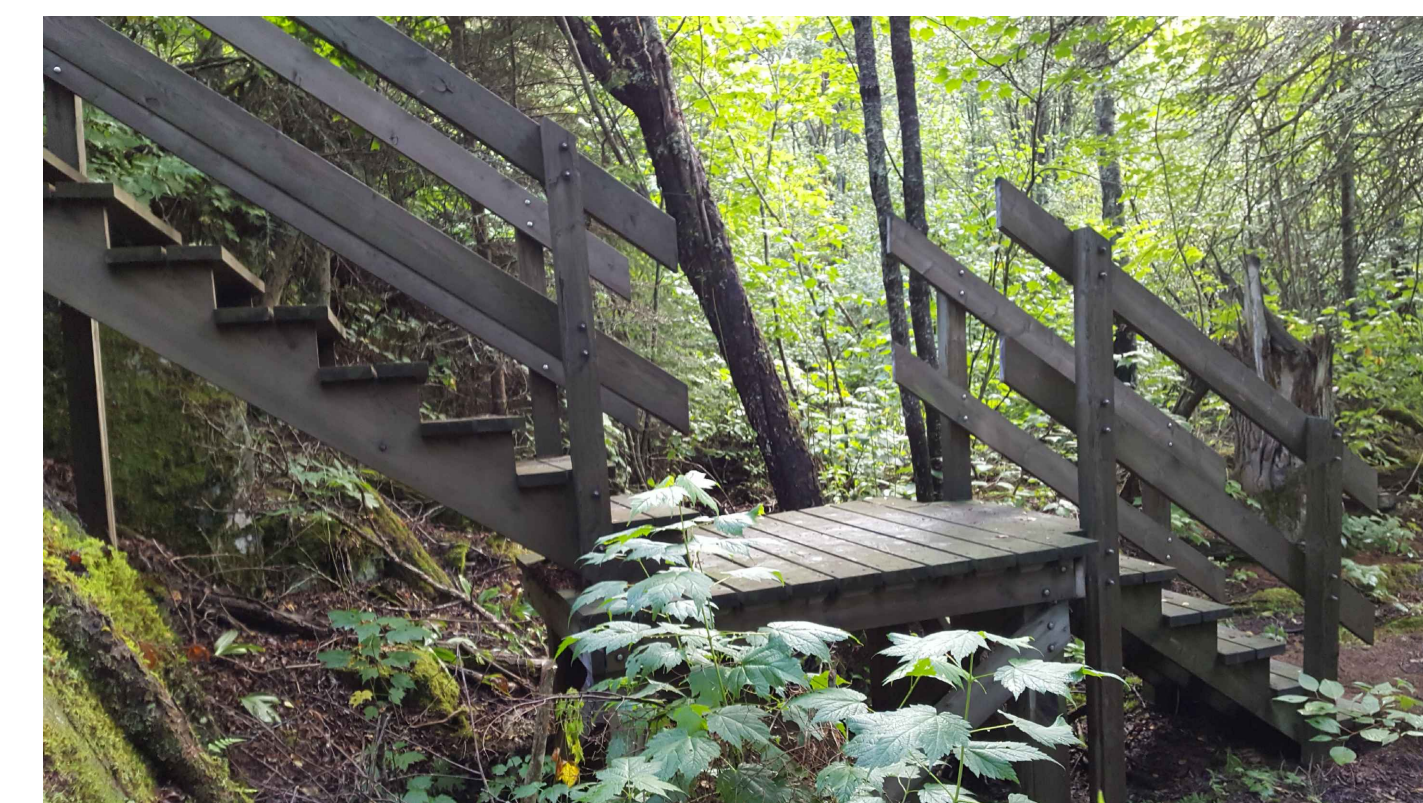
SCALE: N.T.S.

SCOPE OF WORK:

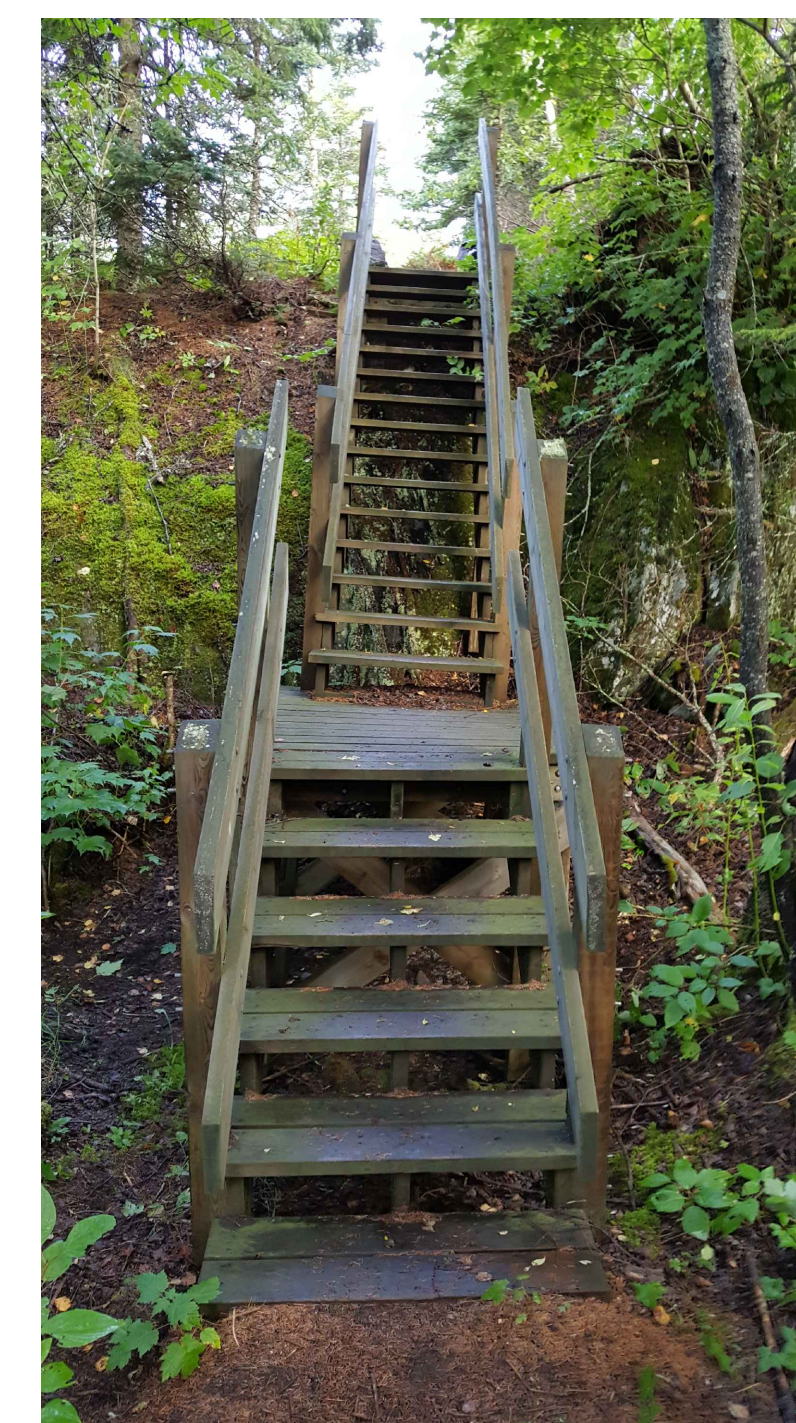
1. SECURE POSTS TO BEDROCK USING STEEL BRACKETS AS SHOWN;
2. SECURE DECK AND TREAD BOARDS WITH SCREWS WHERE NAILS ARE POPPING OUT;
3. LANDING - ADD CENTRE JOIST TO SUPPORT DECK BOARDS;
4. TIGHTEN ALL BOLTS TO RAILINGS;
5. ADD GUARDS TO EX. STAIR RAILINGS;
6. ADD ADDITIONAL HANDRAIL POSTS AS INDICATED;
7. ADD RAILINGS AND GUARDS TO MID-PLATFORM, AND;
8. STRENGTHEN EXISTING RAILINGS.



VIEW OF STRUCTURE FACING NORTHEAST



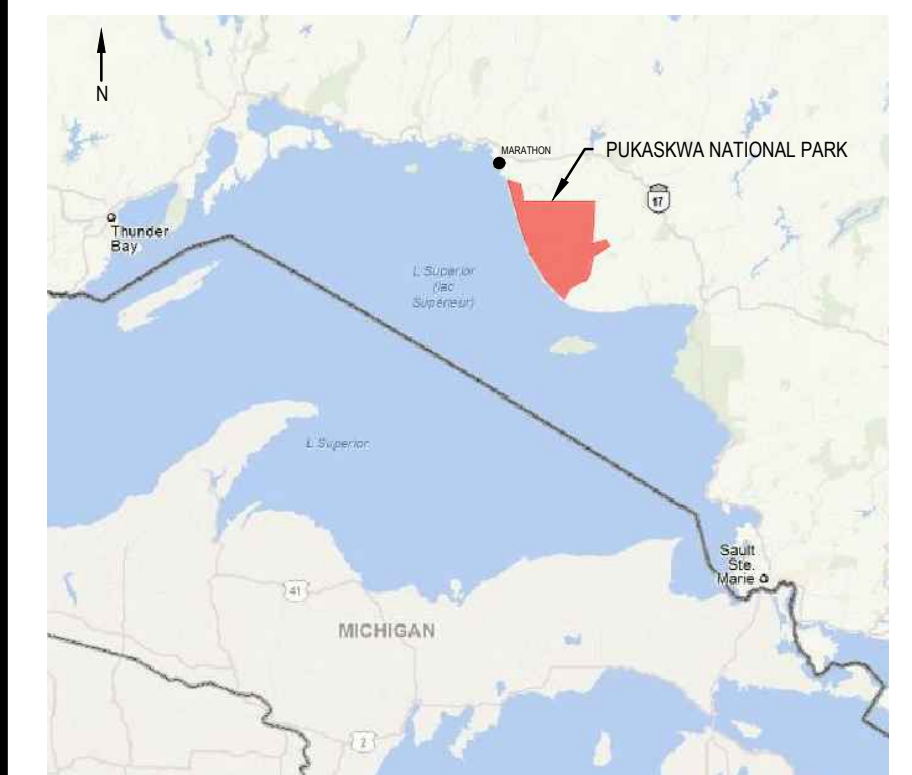
VIEW OF STRUCTURE FACING EAST



VIEW OF STRUCTURE FACING NORTH



KEY PLAN:



Legends:

NEW CONSTRUCTION

- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Revision / Revision

A	B	Detail number / Numéro de détail	A	B

Linear dimensions in millimetres / Dimensions linéaires en millimètres

Consultant's Name / Nom de l'expert-conseil: **WSP**

Eng. Stamp / Sceau de l'ingénieur: [Stamp]

186 EAST STREET
SUITE 101, MISSISSAUGA, ONTARIO, CANADA, L4X 1L7
TEL: 705-842-3070 / FAX: 705-842-3532 / WWW.WSPGROUP.COM
WSP: SPP01-15-0001-001 (WSP# 151-02105-07)

Project title / Titre du projet: **1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT**

Drawing title / Titre du dessin: **STRUCTURE 17-18**

Designed by / Conçue par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessinée par: M.PILON / T.PILON / R.COPPENS	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / N° du projet: 1433	Scale / Echelle: AS NOTED
Drawing Set No. / N° de série du dessin: -	Sheet No. / N° de la feuille: C1.21

STRUCTURE LOCATION

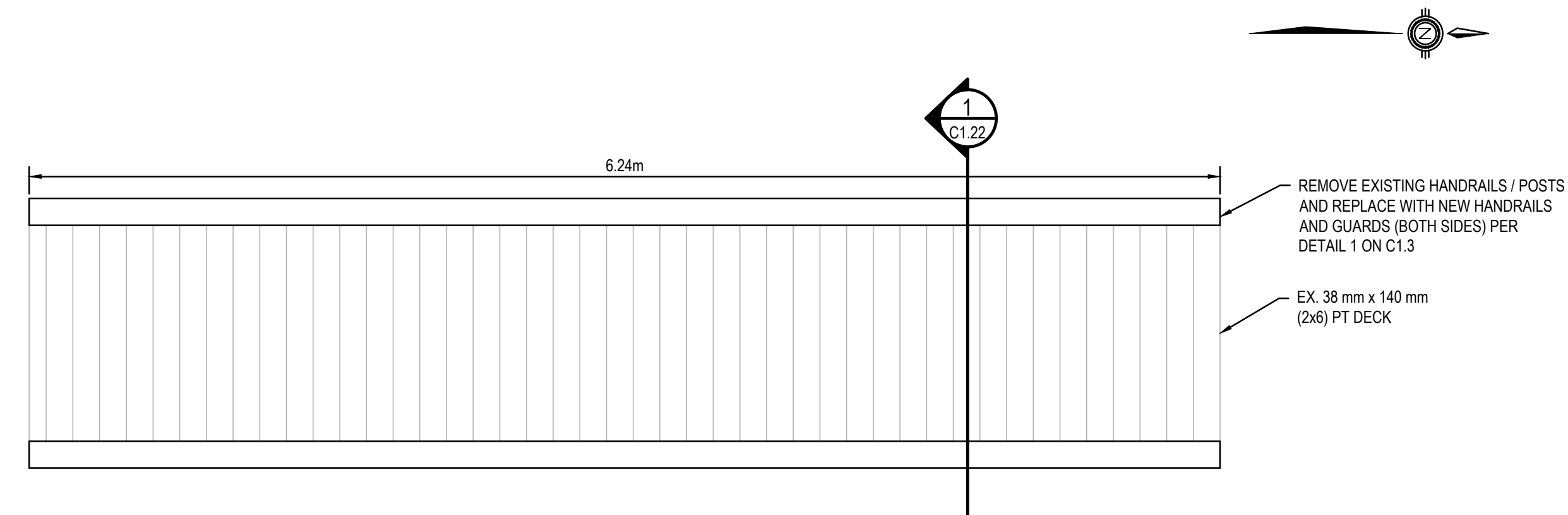
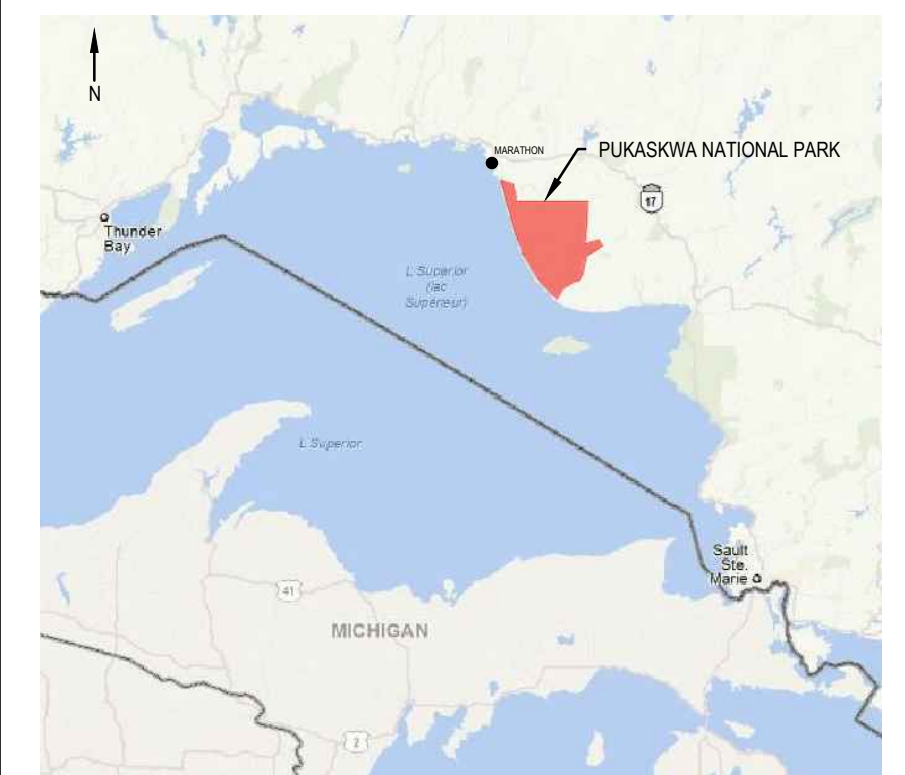
NORTHING: 5382820
EASTING: 552210

SCOPE OF WORK:

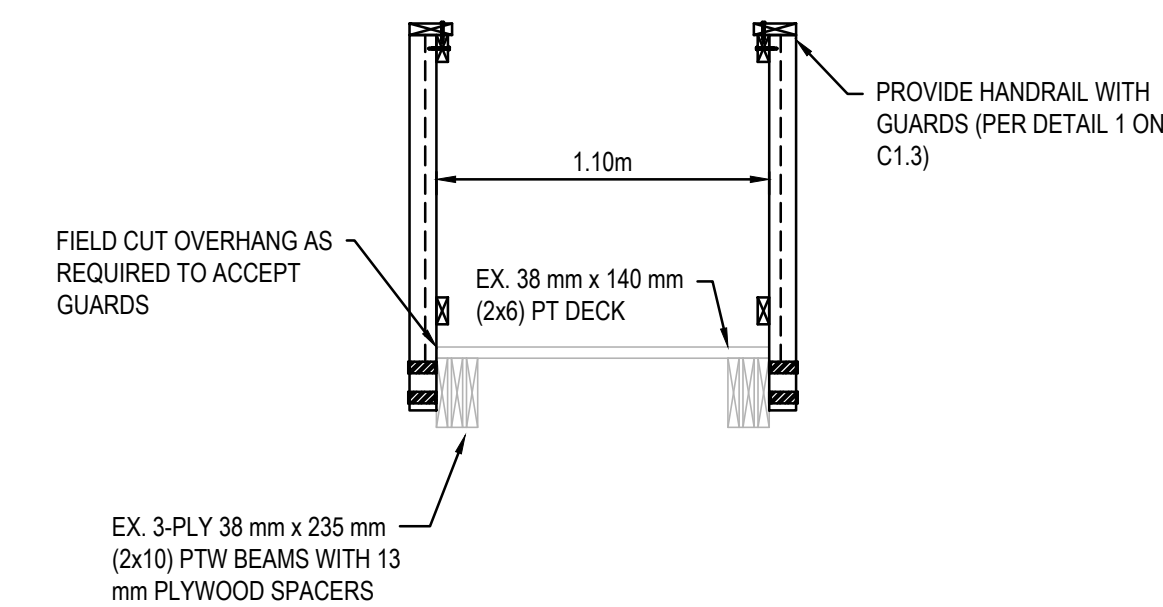
1. ADD ADDITIONAL ANCHOR PLATES ON OPPOSITE FACES OF KNEE BRACES INTO BEDROCK;
2. BEAM - ADD SCREWS TO TIGHTEN THE GAPS BETWEEN LAMINATIONS PER DETAIL 17;
3. REPLACE HANDRAILS WITH NEW HANDRAILS, POSTS AND GUARDS.



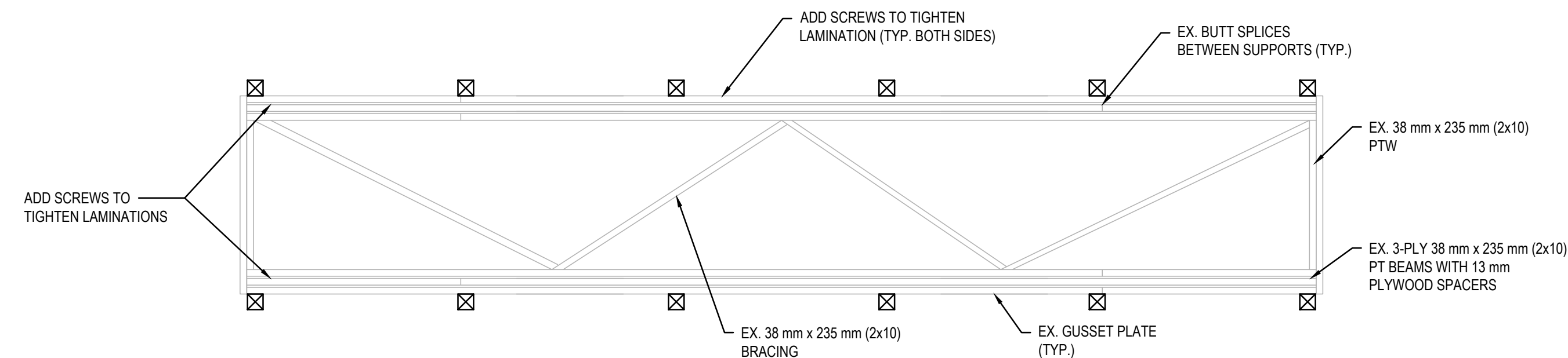
KEY PLAN:



PLAN VIEW
SCALE: N.T.S



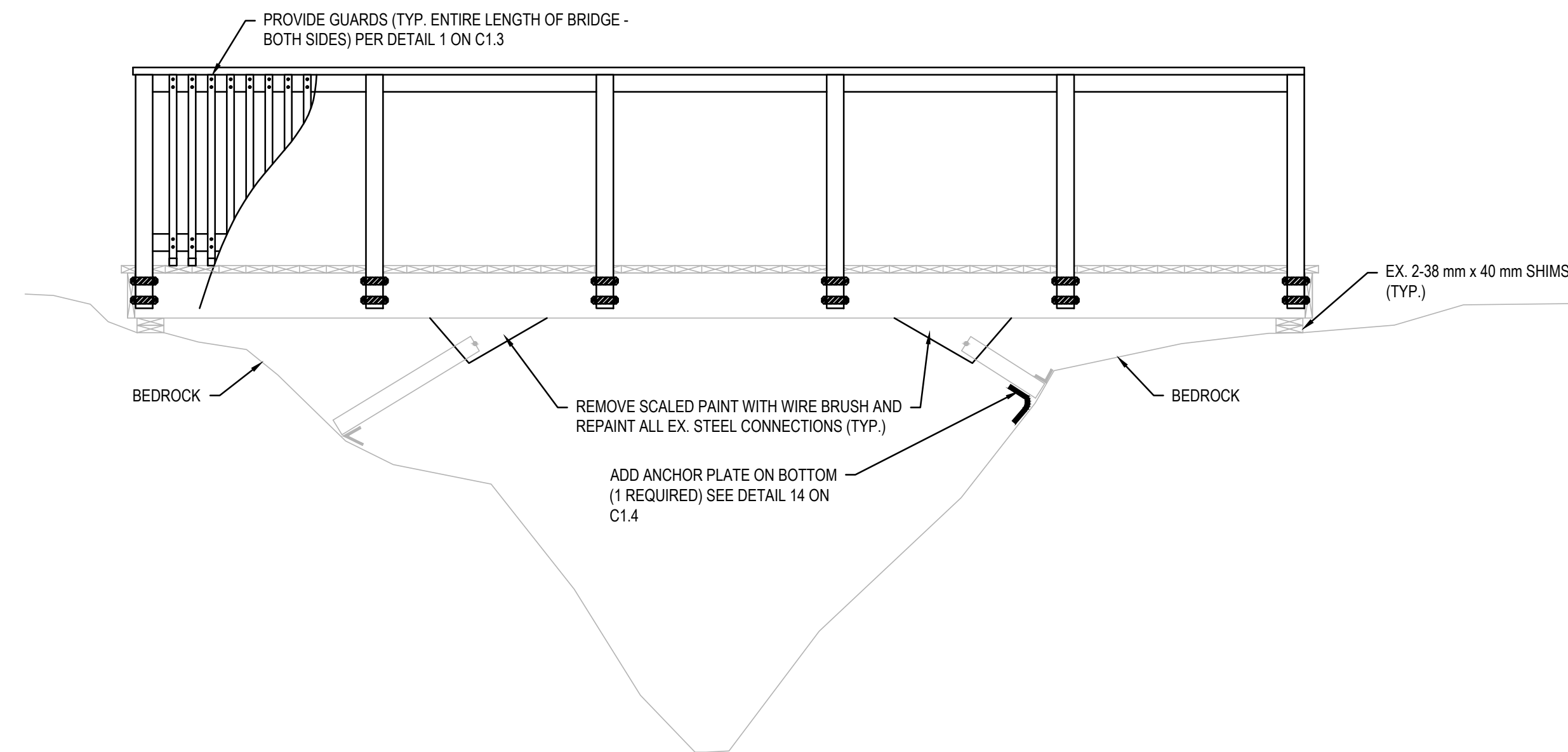
SECTION
SCALE: N.T.S



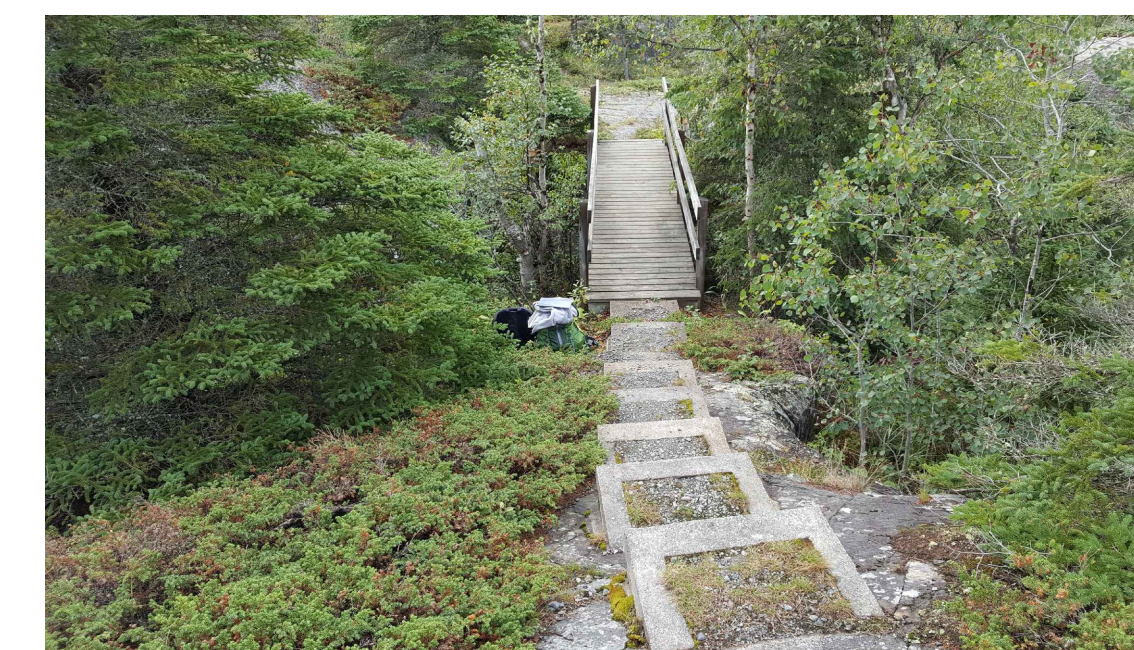
STRUCTURAL PLAN
SCALE: N.T.S



VIEW OF STRUCTURE FACING NORTHEAST



EAST ELEVATION
SCALE: N.T.S



VIEW OF STRUCTURE FACING SOUTH



VIEW OF STRUCTURAL KNEE BRACING

Legends:

- NEW CONSTRUCTION**
- PROPOSED / TO BE PROVIDED
 - EXISTING / TO REMAIN
- REMOVALS**
- EXISTING / TO BE REMOVED
 - EXISTING / TO REMAIN

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Revision / Revision

A	B	Detail number Sheet number	A Numéro de détail B Numéro de la feuille

Linear dimensions in millimetres / Dimensions linéaires en millimètres

Consultant's Name / Nom de l'expert-conseil: **WSP**

186 EAST STREET
SALT STEPHENIE (ONTARIO) CANADA, P6A 3C8
TEL.: 705-942-3070 / FAX: 705-942-3532 / WWW.WSPGROUP.COM
WSP-SP-2011-15-0001-001 (WSP# 151-001-01)

Eng. Stamp / Sceau de l'ingénieur: **D. SPACEK**

Project title / Titre du projet

1433 PUK NP
TRAIL BRIDGE STRUCTURE
REHABILITATION PROJECT

Drawing title / Titre du dessin

STRUCTURE 17-19

Designed by / Concept par M.PILON / A.MALLETTE	Date MAR 23, 2017
Drawn by / Dessiné par T.PILON / M.PILON / R.COPPENS	Date MAR 23, 2017
Checked by / Vérifié par D.SPACEK	Date MAR 23, 2017
Approved by / Approuvé par D.SPACEK	Date MAR 23, 2017
Project No. / N° du projet 1433	Scale / Echelle AS NOTED
Drawing Set No. / N° de série du dessin -	Sheet No. / N° de la feuille C1.22

STRUCTURE LOCATION

NORTHING: 5381864
EASTING: 551789

SCOPE OF WORK:
1. CONDUCT REMOVALS AS INDICATED

Government of Canada / Gouvernement du Canada



Parks Canada / Parcs Canada
Northern Ontario Field Unit / Unité de gestion du Nord de l'Ontario

KEY PLAN:



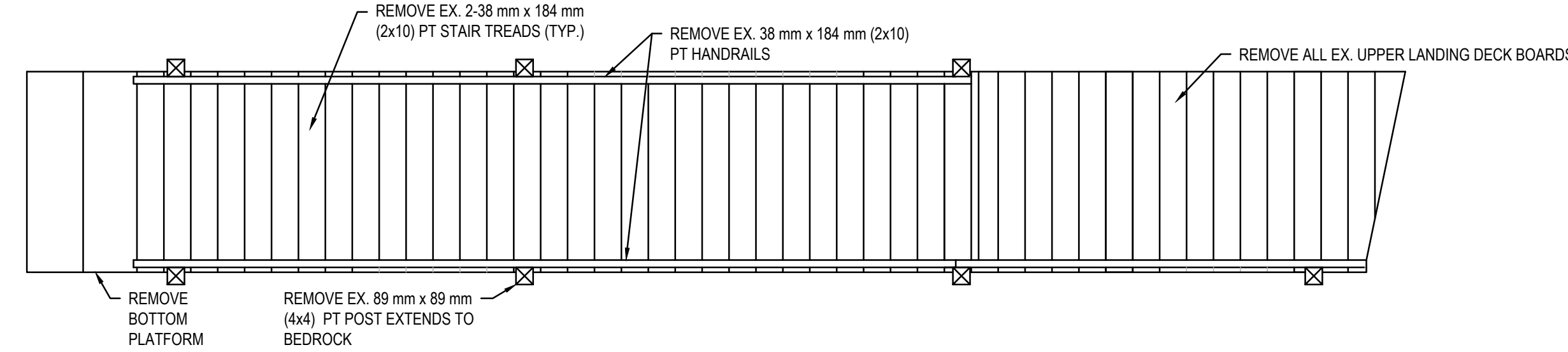
Legends:

NEW CONSTRUCTION

- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

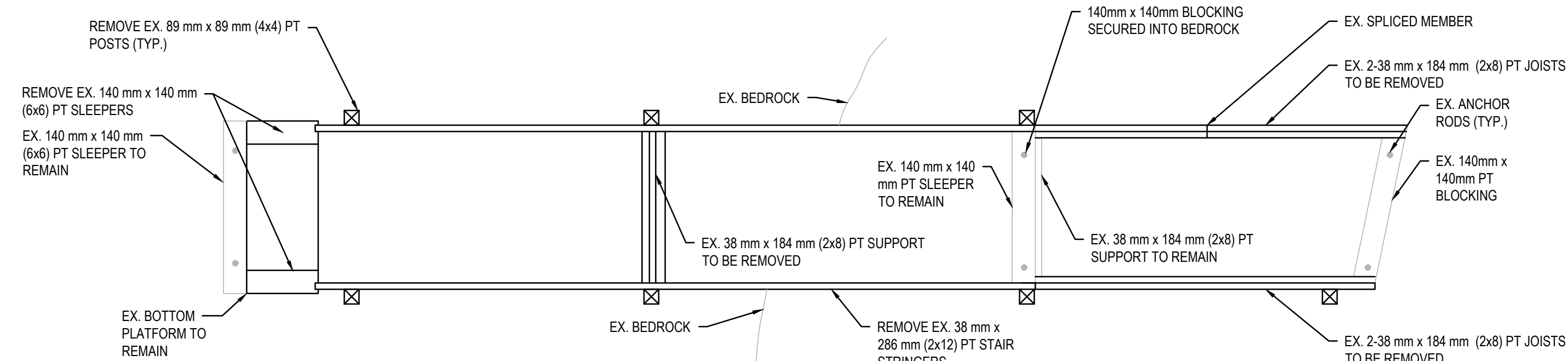
REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN



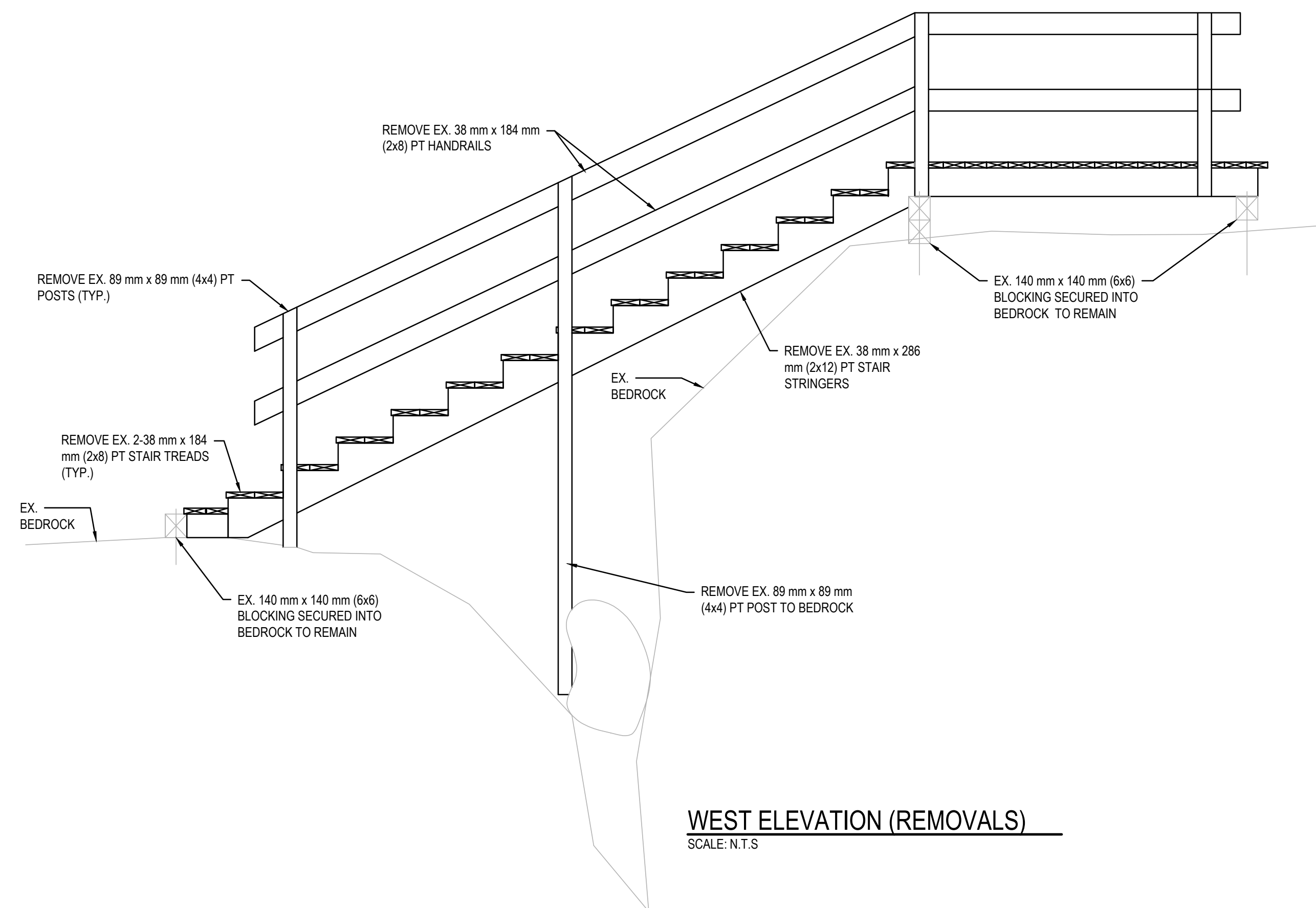
PLAN VIEW (REMOVALS)

SCALE: N.T.S.



STRUCTURAL PLAN (REMOVALS)

SCALE: N.T.S.



WEST ELEVATION (REMOVALS)

SCALE: N.T.S.



VIEW OF STRUCTURE FACING NORTHEAST



VIEW OF STRUCTURE FACING SOUTHEAST



VIEW OF STRUCTURE FACING EAST

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIABLES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIABLES	D.SPACEK
B	12DEC16	99% REVIEW	VARIABLES	D.SPACEK
A	18NOV16	66% REVIEW	VARIABLES	D.SPACEK

Revision / Révision	
A	Detail number / Numéro de détail
B	Sheet number / Numéro de la feuille

Consultant's Name / Nom de l'expert-conseil: **WSP**

Eng. Stamp / Sceau de l'ingénieur: **D. SPACEK**

186 EAST STREET
SALT STEPHEN, ONTARIO, CANADA, P6A 3C8
TEL.: 705-842-3070 / FAX: 705-842-3532 / WWW.WSPGROUP.COM
WSP-SP-2011-15-0001-001 (WSP# 151-62165-07)

Project title / Titre du projet: **1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT**

Drawing title / Titre du dessin: **STRUCTURE 17-20 SHEET 1 OF 2 (REMOVALS)**

Designed by / Conçue par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: M.PILON / T.PILON / R.COPPENS	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / N° du projet: 1433	Scale / Échelle: AS NOTED
Drawing Set No. / N° de série du dessin: -	Sheet No. / N° de la feuille: C1.23

STRUCTURE LOCATION

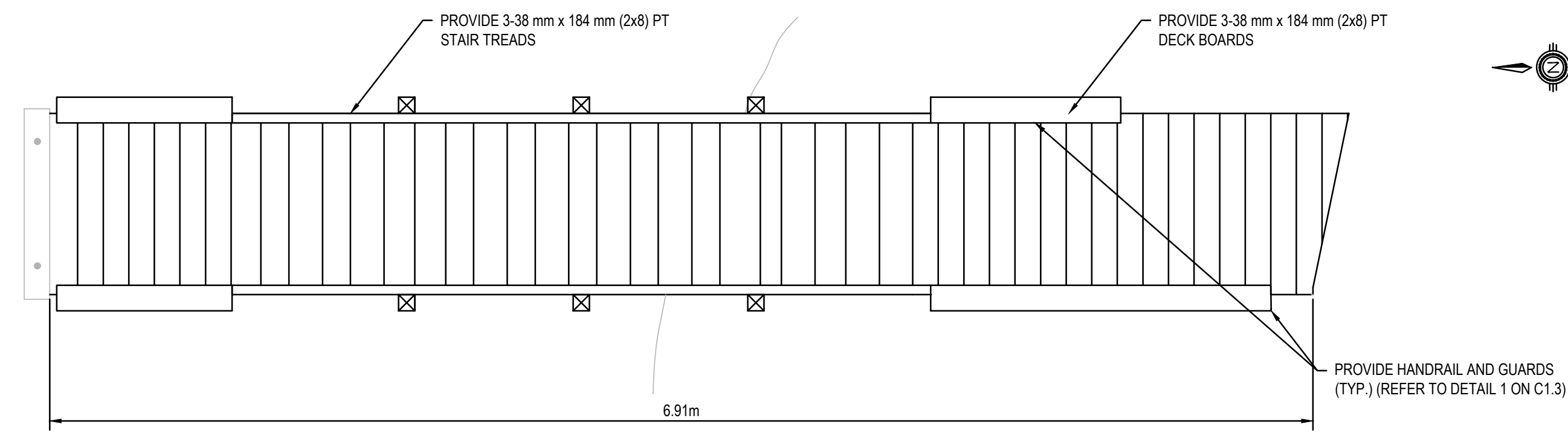
NORTHING: 5381864
EASTING: 551789

SCOPE OF WORK:

1. CHISEL ROCK SUCH THAT WATER DRAINS SOUTH;
2. GROUT DOWELED BEARING SUPPORTS (TYP.);
3. RECONSTRUCT STRUCTURE AS INDICATED

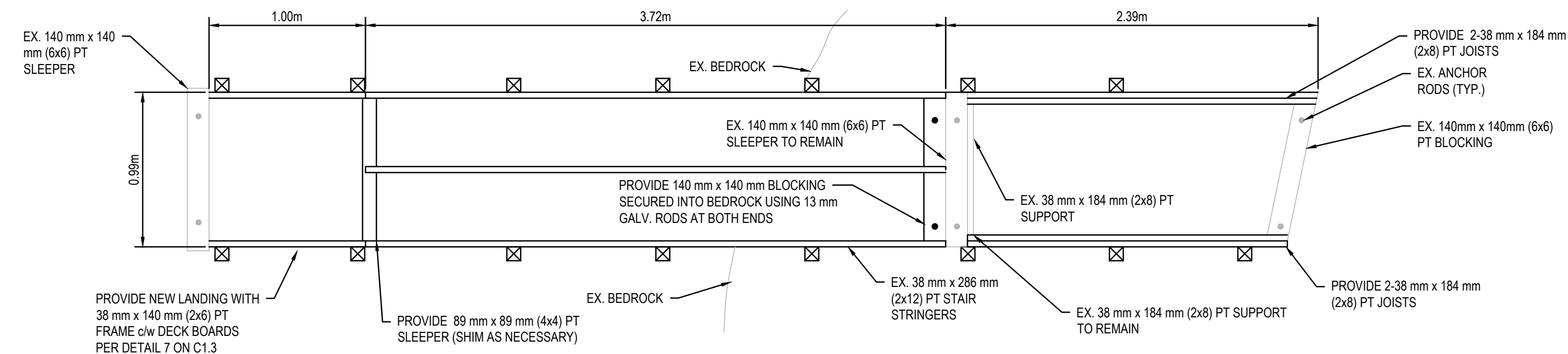


KEY PLAN:



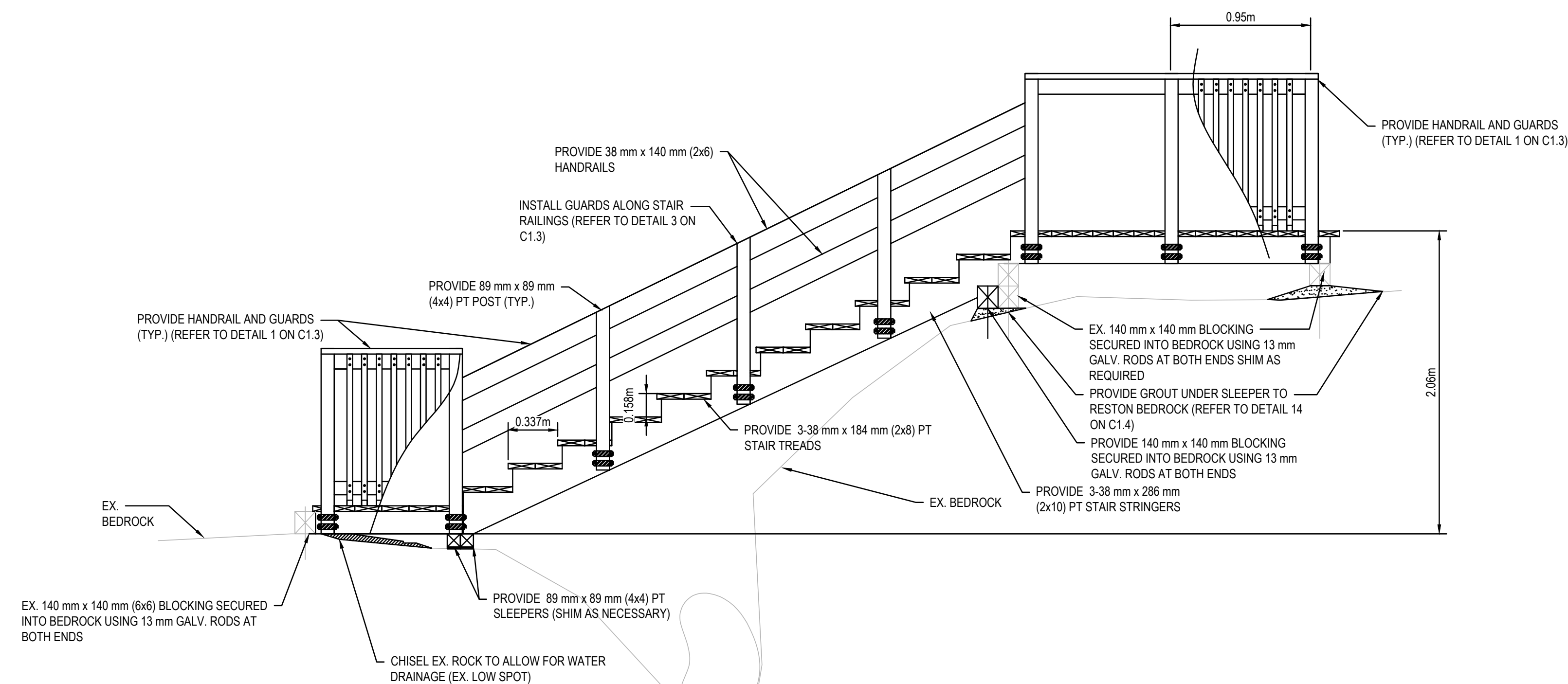
PLAN VIEW (NEW CONSTRUCTION)

SCALE: N.T.S.



STRUCTURAL PLAN (NEW CONSTRUCTION)

SCALE: N.T.S.



WEST ELEVATION (NEW CONSTRUCTION)

SCALE: N.T.S.

Legends:

NEW CONSTRUCTION

- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Revision / Revision	
A	Detail number / Numéro de détail
B	Sheet number / Numéro de la feuille
Linear dimensions in millimetres / Dimensions linéaires en millimètres	

Consultant's Name / Nom de l'expert-conseil: **WSP**

Eng. Stamp / Sceau de l'ingénieur: **D. M. SPACEK**

186 EAST STREET
SUITE 101, MARKHAM, ONTARIO, CANADA, R6A 3C8
TEL: 705-942-3070 / FAX: 705-942-3532 / WWW.WSPGROUP.COM
WSP-SP-01-15-0001-001 (WSP# 151-0215-01)

Project title / Titre du projet: **1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT**

Drawing title / Titre du dessin: **STRUCTURE 17-20 SHEET 2 OF 2 (NEW CONSTRUCTION)**

Designed by / Concept par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: M.PILON / T.PILON / R.COPPENS	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / N° du projet: 1433	Scale / Echelle: AS NOTED
Drawing Set No. / N° de série du dessin: -	Sheet No. / N° de la feuille: C1.24

STRUCTURE LOCATION

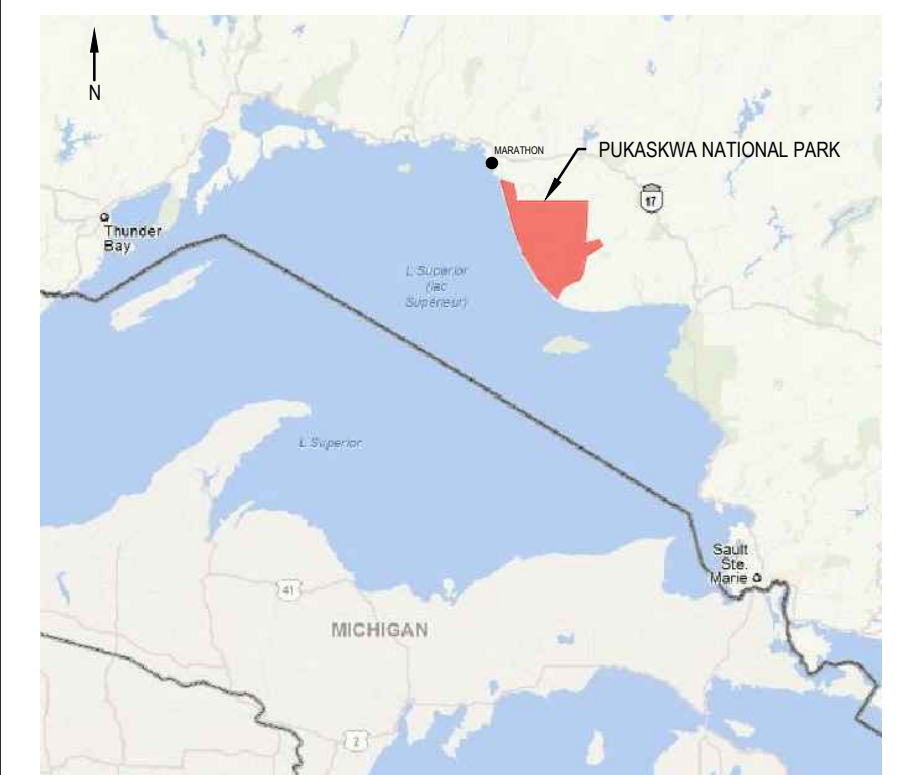
NORTHING: 5382565
EASTING: 552359

SCOPE OF WORK:
1. CONDUCT REMOVALS AS INDICATED

Government of Canada / Gouvernement du Canada

Parks Canada / Parcs Canada
Northern Ontario Field Unit / Unité de gestion du Nord de l'Ontario

KEY PLAN:



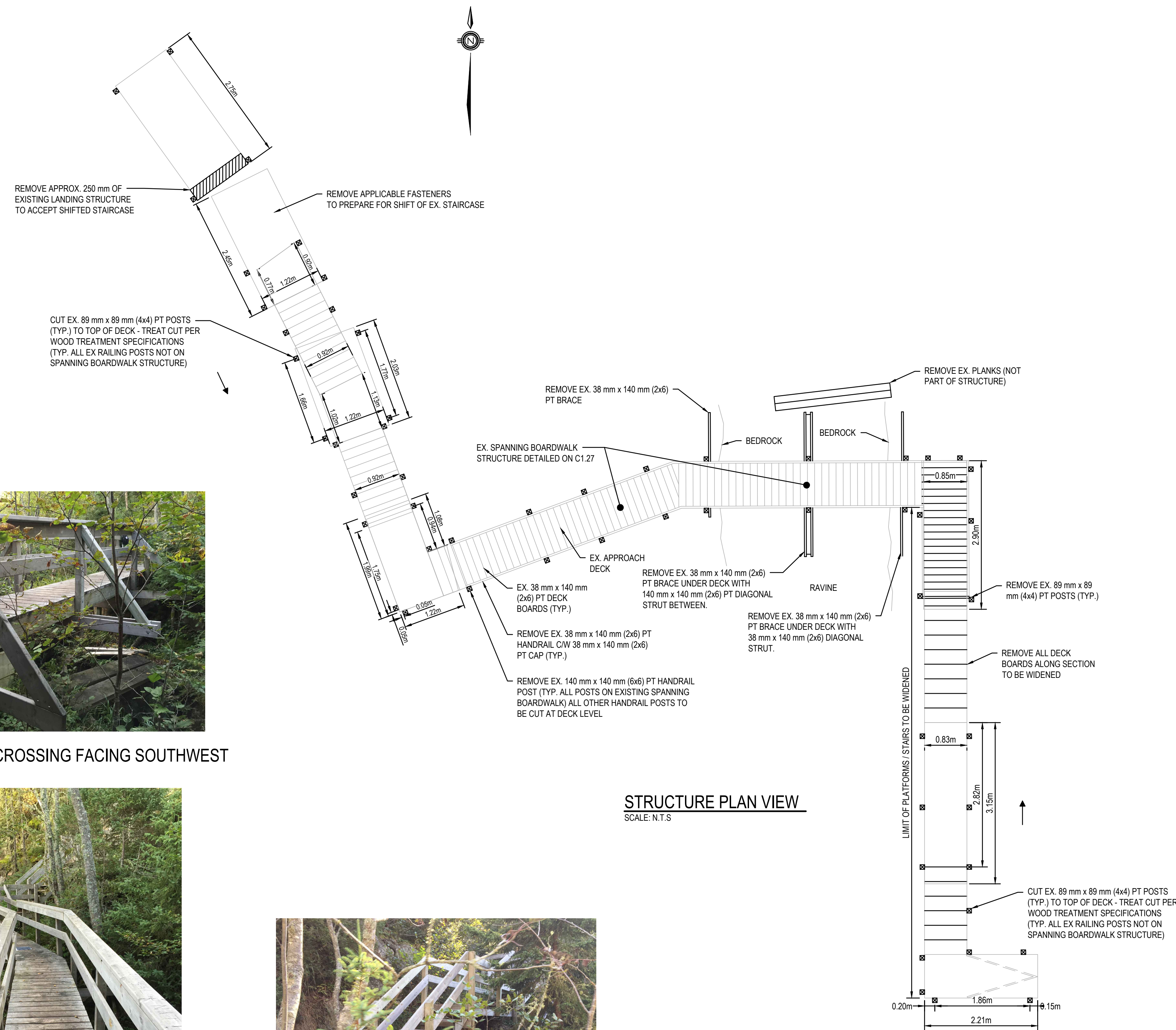
Legends:

NEW CONSTRUCTION

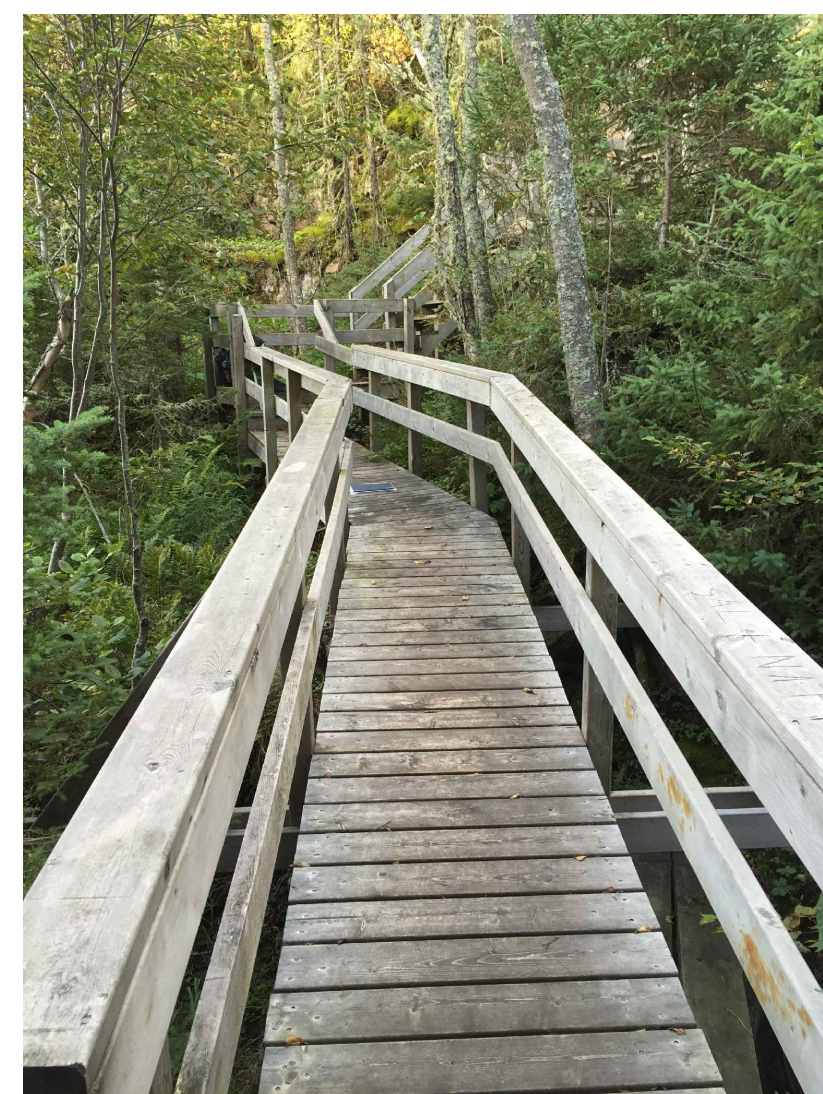
- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN



VIEW OF RAVINE CROSSING FACING SOUTHWEST



VIEW OF RAVINE CROSSING FACING WEST



VIEW OF WEST STAIRS FACING NORTHWEST

STRUCTURE PLAN VIEW
SCALE: N.T.S.

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Revision / Révision	
A	Detail number / A Numéro de détail
B	Sheet number / B Numéro de la feuille

Linear dimensions in millimetres	Dimensions linéaires en millimètres
-------------------------------------	--

Consultant's Name / Nom de l'expert-conseil: **WSP**

186 EAST STREET
SUITE 101, WILLOWDALE, ONTARIO, CANADA, M2H 3C8
TEL.: 705-942-3070 / FAX: 705-942-3532 / WWW.WSPGROUP.COM
WSP-SP-2011-15-0001-001 (WSP# 151-001-001-01)

Eng. Stamp / Sceau de l'ingénieur: **D. SPACEK**

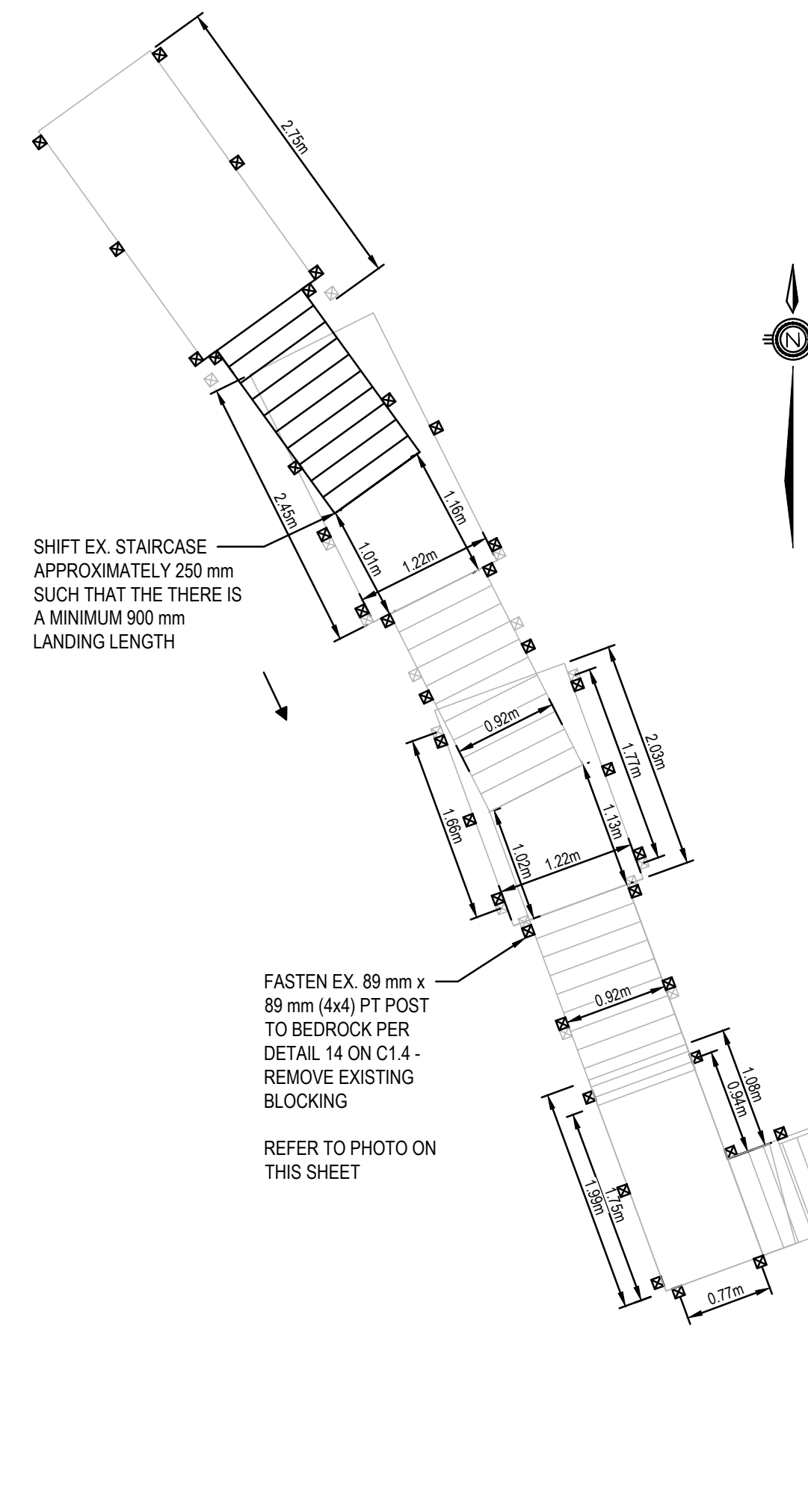
Project title / Titre du projet: **1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT**

Drawing title / Titre du dessin: **STRUCTURE 17-21 SHEET 1 OF 3 (REMOVALS)**

Designed by / Concept par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: M.PILON / T.PILON / R.COPPENS	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / No du projet: 1433	Scale / Echelle: AS NOTED
Drawing Set No. / No de série du dessin: -	Sheet No. / No de la feuille: C1.25

STRUCTURE LOCATION

NORTHING: 5382565
EASTING: 552359



STRUCTURE PLAN VIEW

SCALE: N.T.S.



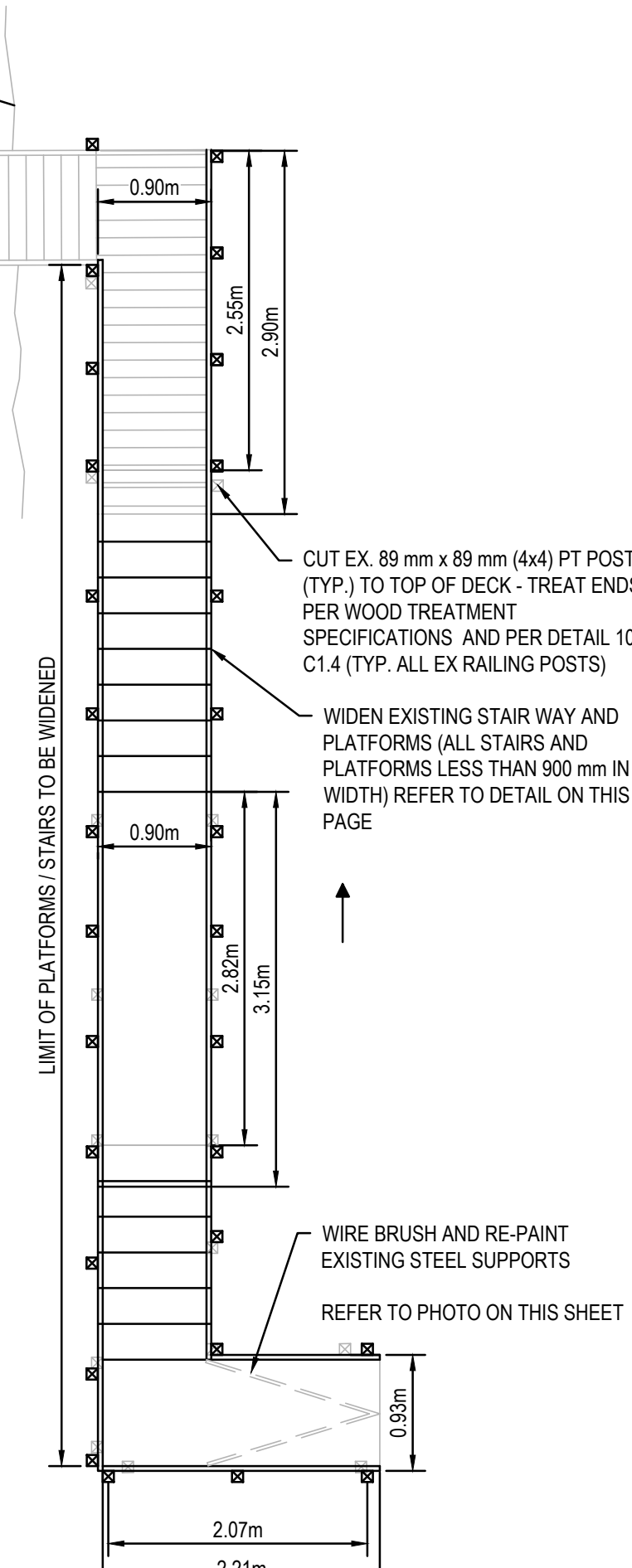
VIEW OF EX. STEEL BRACES TO BE PAINTED



VIEW OF RUSTED NAILS TO BE REMOVED



VIEW OF SUPPORT POST TO BE ANCHORED TO BEDROCK



NOTE: ALL RAILINGS TO BE REPLACED ACROSS ENTIRE STRUCTURE

SCOPE OF WORK:

1. WEST ABUTMENT - COMPLETE CONCRETE POUR TO BEDROCK;
2. REPLACE ALL EX. HANDRAILS WITH NEW HANDRAILS AND GUARDS AS INDICATED;
3. WIDEN EXISTING WALKWAY/STAIRS IN SELECT AREAS AS EXISTING WALKWAY/STAIRS ARE TOO NARROW. WALKWAY/STAIRS MUST HAVE A MINIMUM WIDTH OF 900 MM BETWEEN GUARDS;
4. PROPERLY FASTEN SUPPORT INTO BEDROCK. CURRENT SUPPORT RESTING ON WOOD BLOCKING - REFER TO NOTE AND PHOTOGRAPH;
5. TIGHTEN SCREWS PROTRUDING WOOD;
6. EXTEND LANDING ON WEST STAIRCASE; AND,
7. SHORTEN NORTH PLATFORM TO ACCEPT NEW STAIRCASE ALIGNMENT.

KEY PLAN:



Legends:

NEW CONSTRUCTION

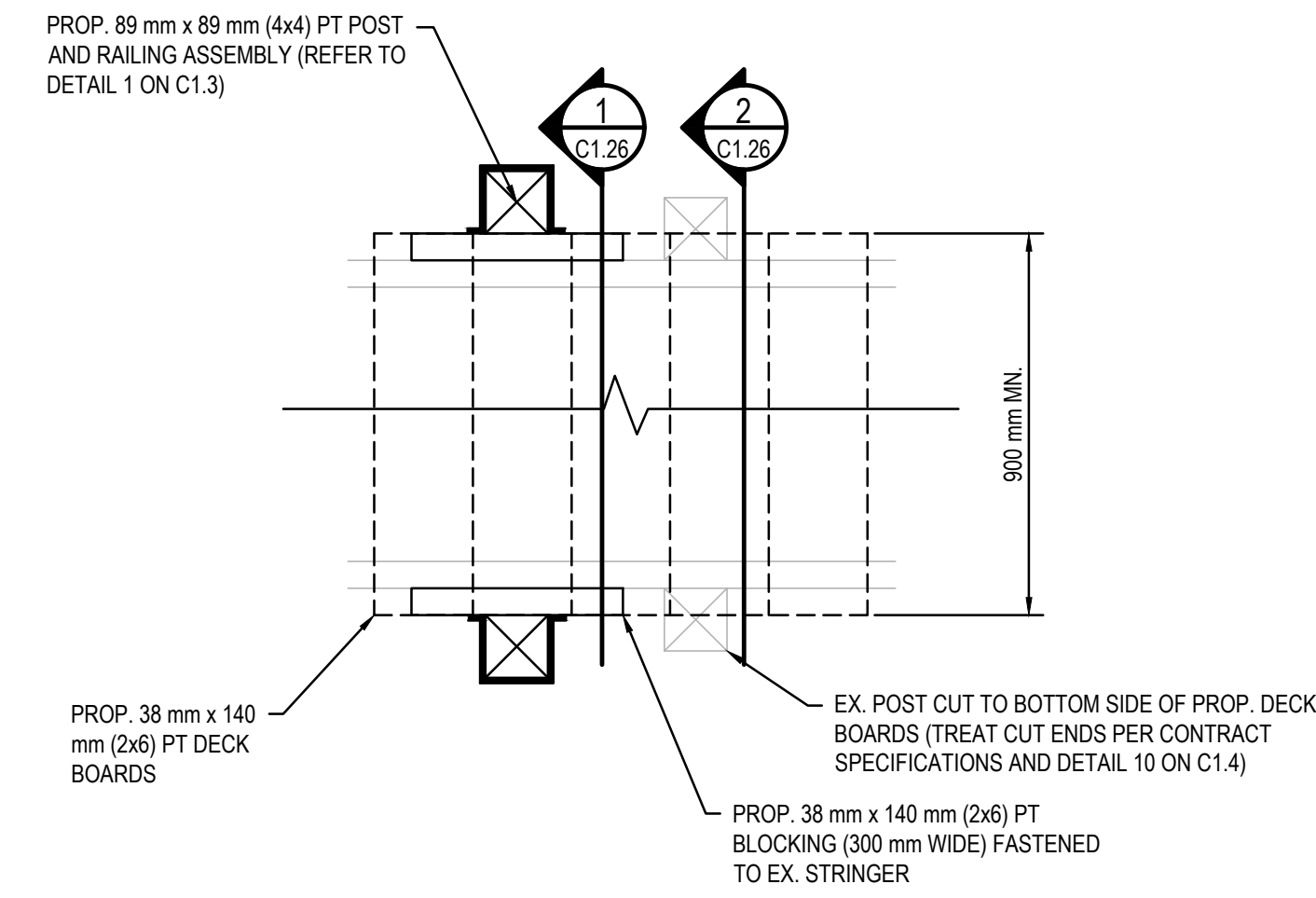
PROPOSED / TO BE PROVIDED

EXISTING / TO REMAIN

REMOVALS

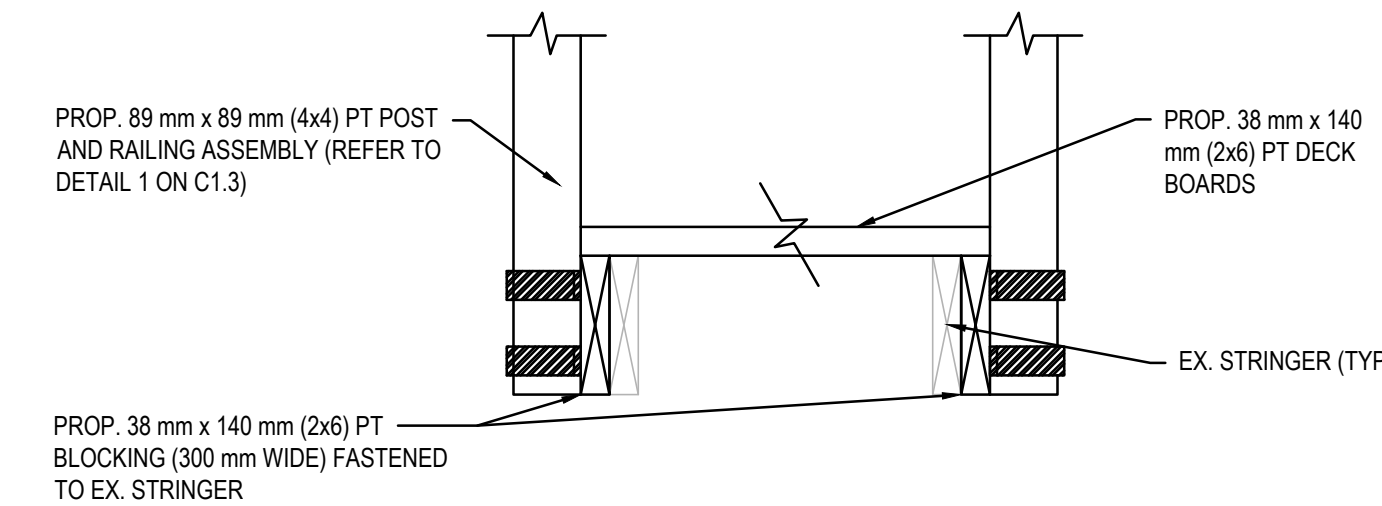
EXISTING / TO BE REMOVED

EXISTING / TO REMAIN



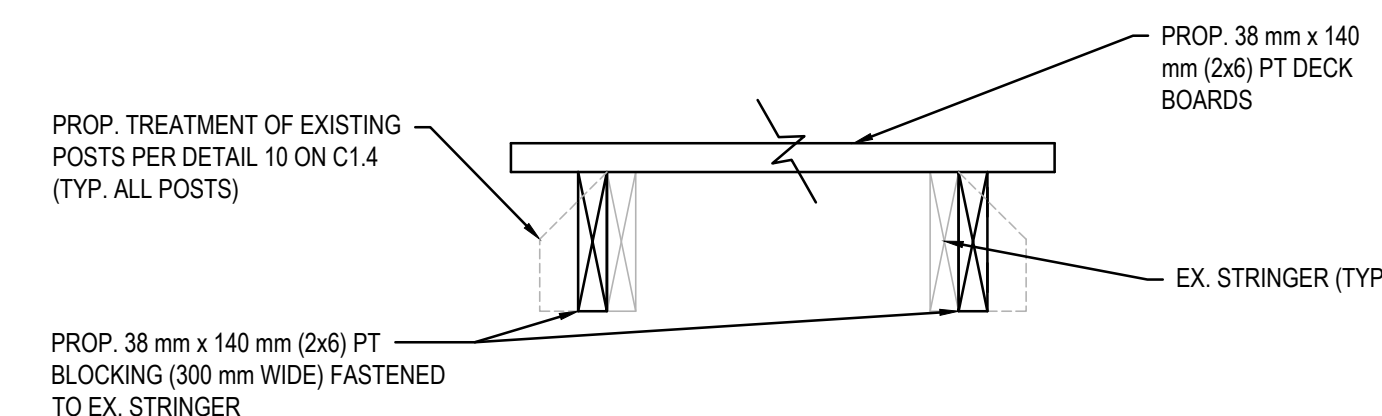
PLATFORM/STAIRCASE WIDENING DETAIL (PLAN VIEW)

SCALE: N.T.S.



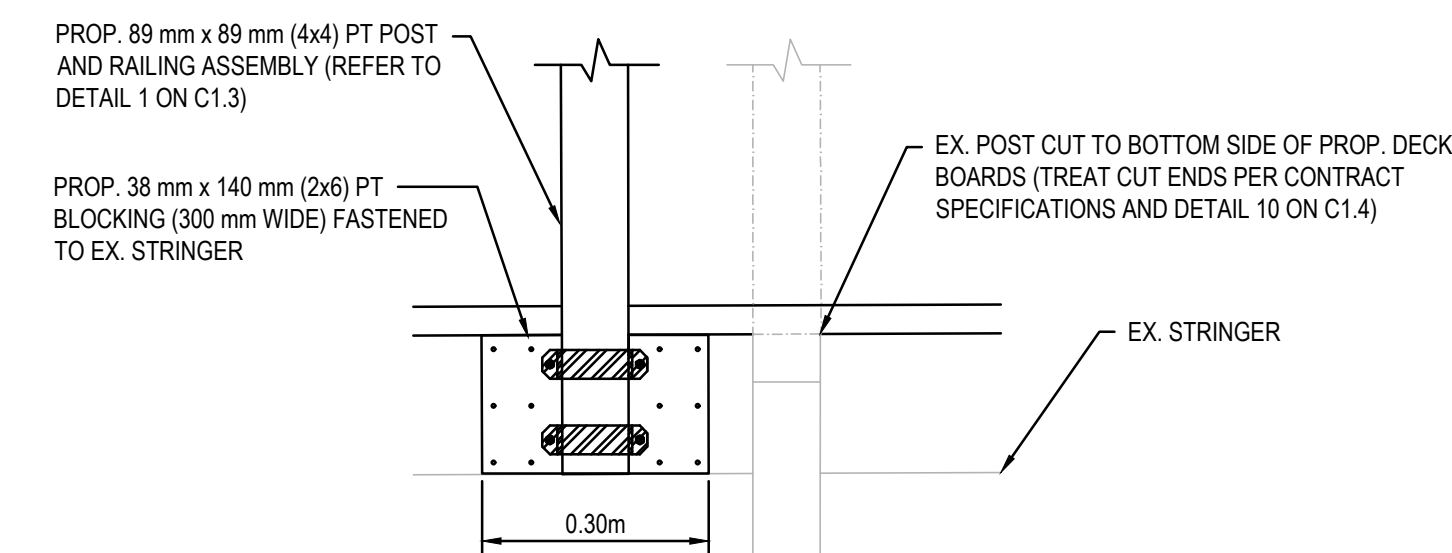
SECTION 1

SCALE: N.T.S.



SECTION 2

SCALE: N.T.S.



PLATFORM/STAIRCASE WIDENING DETAIL (PROFILE VIEW)

SCALE: N.T.S.

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Revision / Révision	
A	Detail number / Numéro de détail
B	Sheet number / Numéro de la feuille
Linear dimensions in millimetres / Dimensions linéaires en millimètres	

Consultant's Name / Nom de l'expert-conseil: **WSP**

186 EAST STREET
SALT STEPHEN ONTARIO CANADA P6A 3C8
TEL: 705-942-3070 FAX: 705-942-3532 WWW.WSPGROUP.COM
WSP-SP201-15-0001-001 (WSP# 151-02105-07)

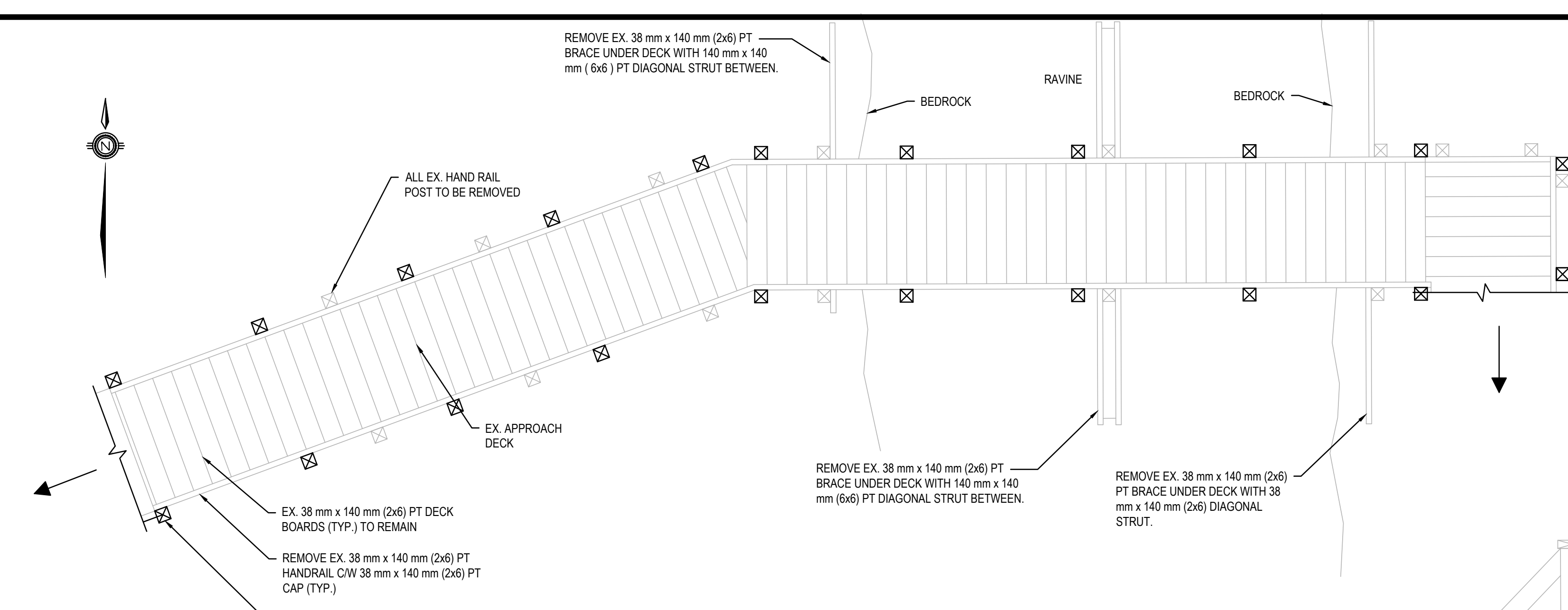
Eng. Stamp / Sceau de l'ingénieur: **D. M. SPACEK**

Project title / Titre du projet: **1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT**

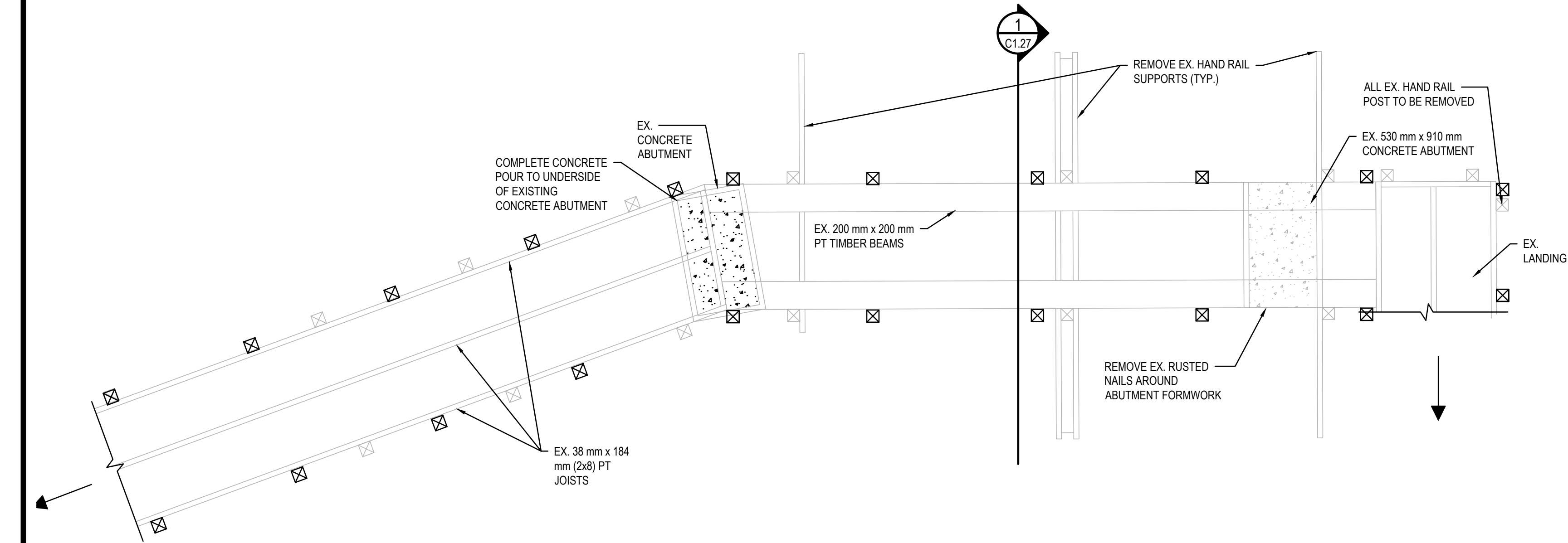
Drawing title / Titre du dessin: **STRUCTURE 17-21 SHEET 2 OF 3 (NEW CONSTRUCTION)**

Designed by / Concept par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: M.PILON / T.PILON / R.COPPENS	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / N° du projet: 1433	Scale / Échelle: AS NOTED
Drawing Set No. / N° de série du dessin: -	Sheet No. / N° de la feuille: C1.26

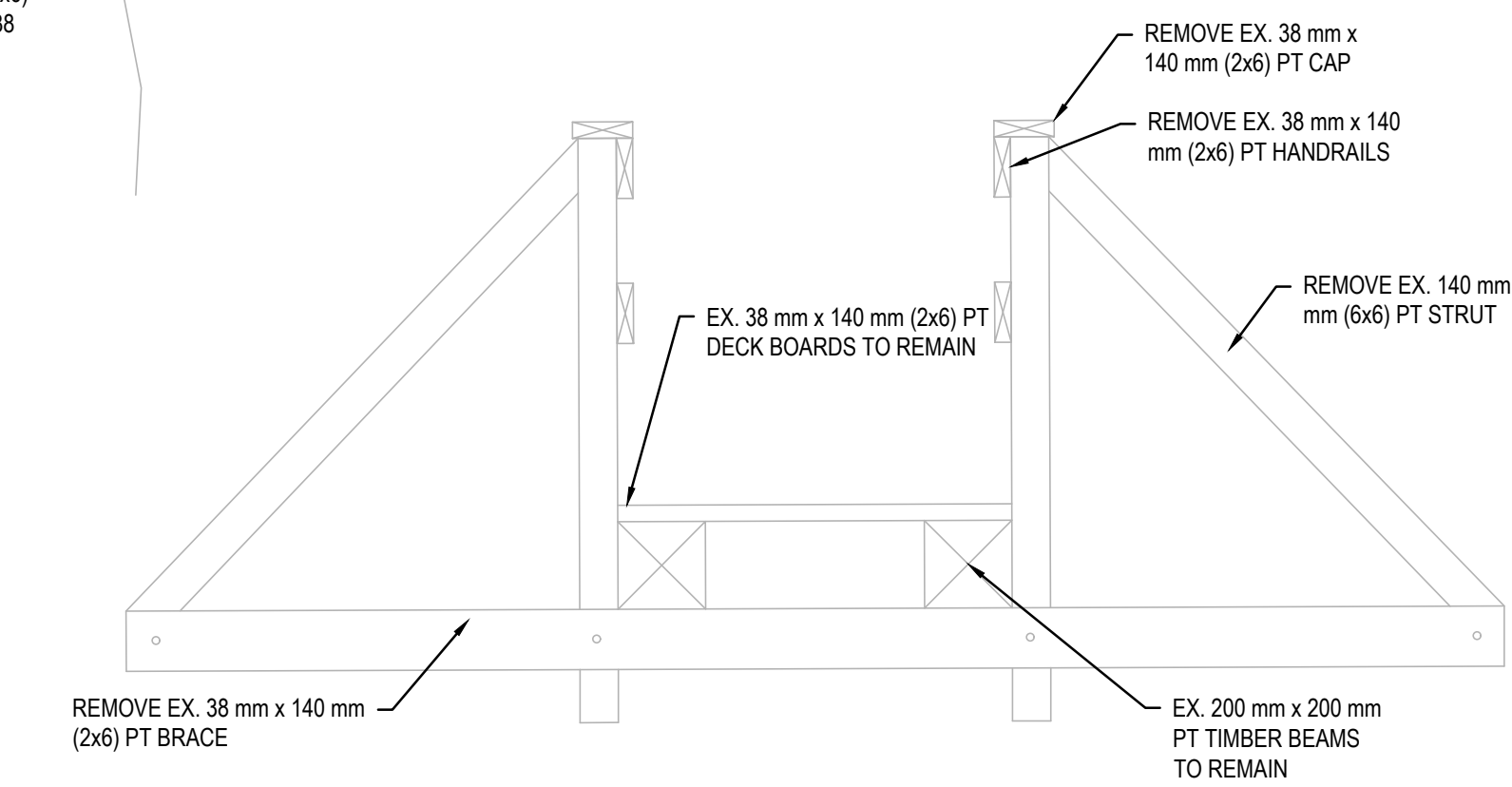
STRUCTURE LOCATION
 NORTHING: 5382565
 EASTING: 552359



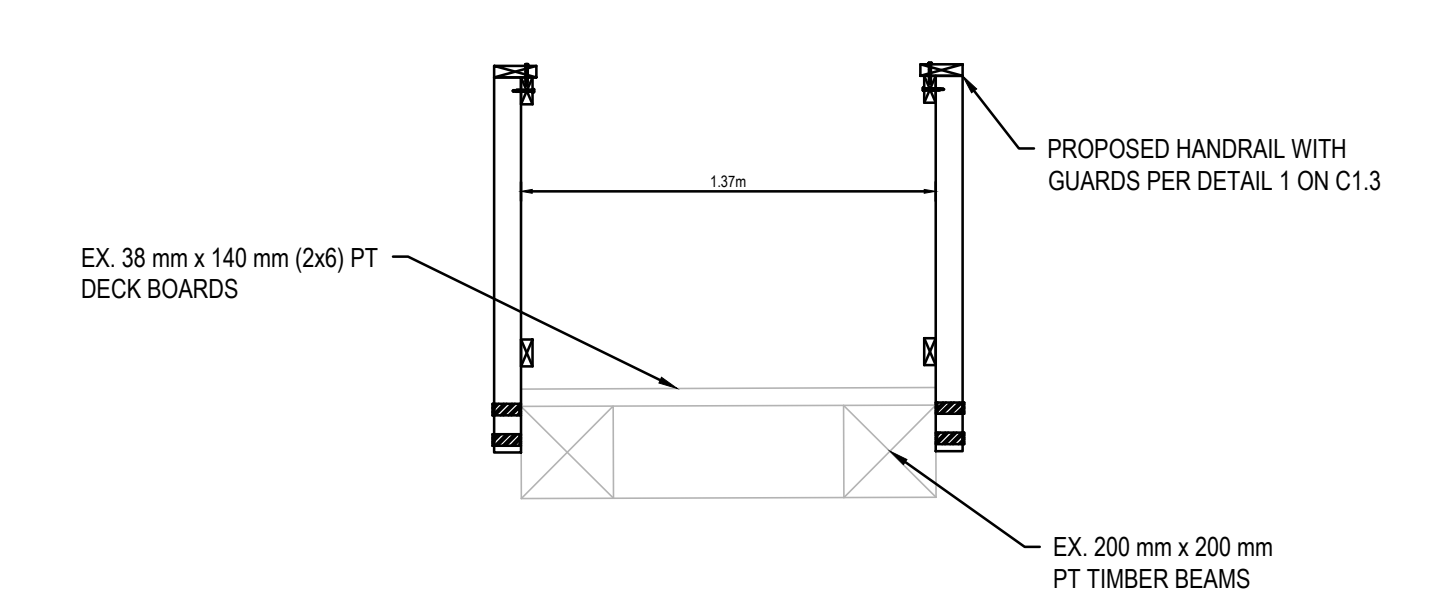
PLAN VIEW
 SCALE: N.T.S.



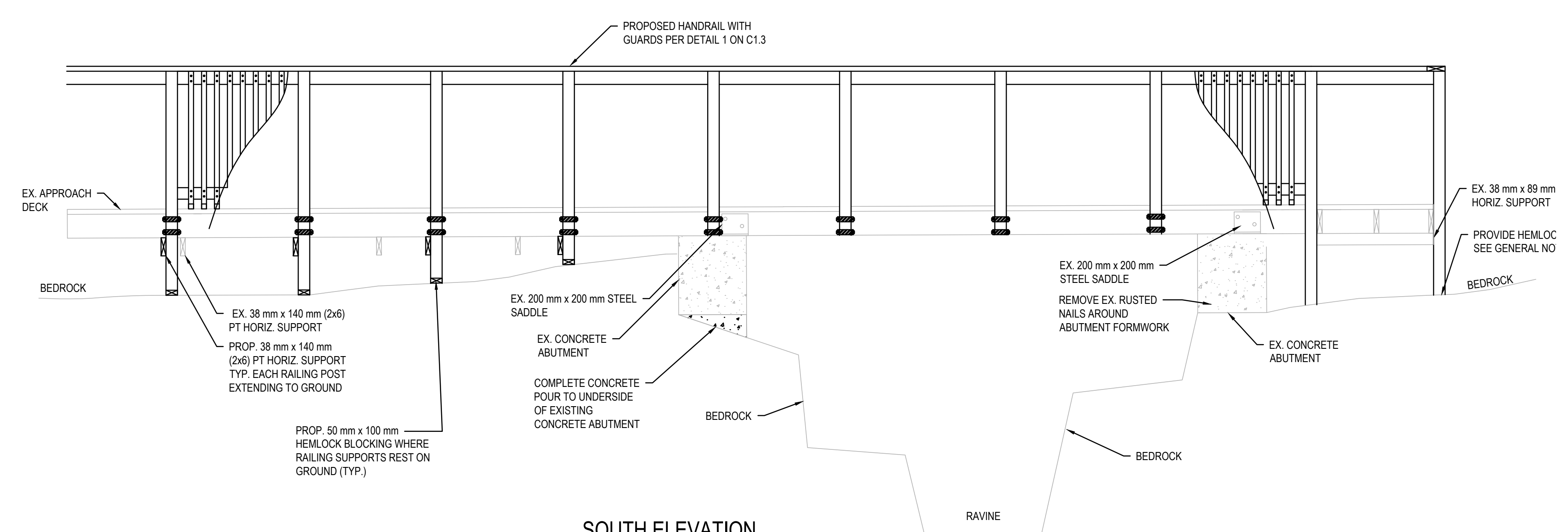
STRUCTURAL PLAN
 SCALE: N.T.S.



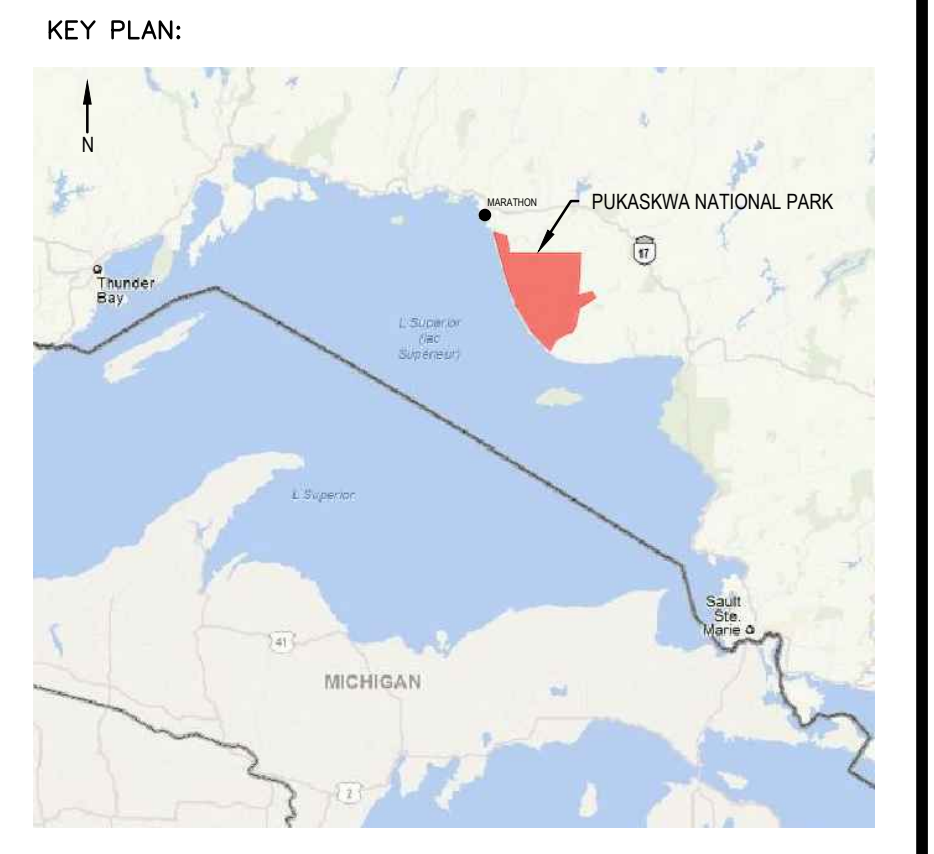
SECTION (REMOVALS)
 SCALE: N.T.S.



SECTION (PROPOSED)
 SCALE: N.T.S.



SOUTH ELEVATION
 SCALE: N.T.S.



Legends:

NEW CONSTRUCTION

- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
C	22DEC16	100% DESIGN SUBMISSION	VARIES	D.SPACEK
B	12DEC16	99% REVIEW	VARIES	D.SPACEK
A	18NOV16	66% REVIEW	VARIES	D.SPACEK

Consultant's Name / Nom de l'expert-conseil: **WSP**

Eng. Stamp / Sceau de l'ingénieur: **D. SPACEK**

Project title / Titre du projet:
 1433 PUK NP
 TRAIL BRIDGE STRUCTURE
 REHABILITATION PROJECT

Drawing title / Titre du dessin:
 STRUCTURE 17-21
 SHEET 3 OF 3
 (NEW CONSTRUCTION)

Designed by / Concept par: M.PILON / A.MALLETTE	Date: MAR 23, 2017
Drawn by / Dessiné par: T.PILON	Date: MAR 23, 2017
Checked by / Vérifié par: D.SPACEK	Date: MAR 23, 2017
Approved by / Approuvé par: D.SPACEK	Date: MAR 23, 2017
Project No. / N° du projet: 1433	Scale / Échelle: AS NOTED
Drawing Set No. / N° de série du dessin: -	Sheet No. / N° de la feuille: C1.27