

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

JUNE 2017

Canada

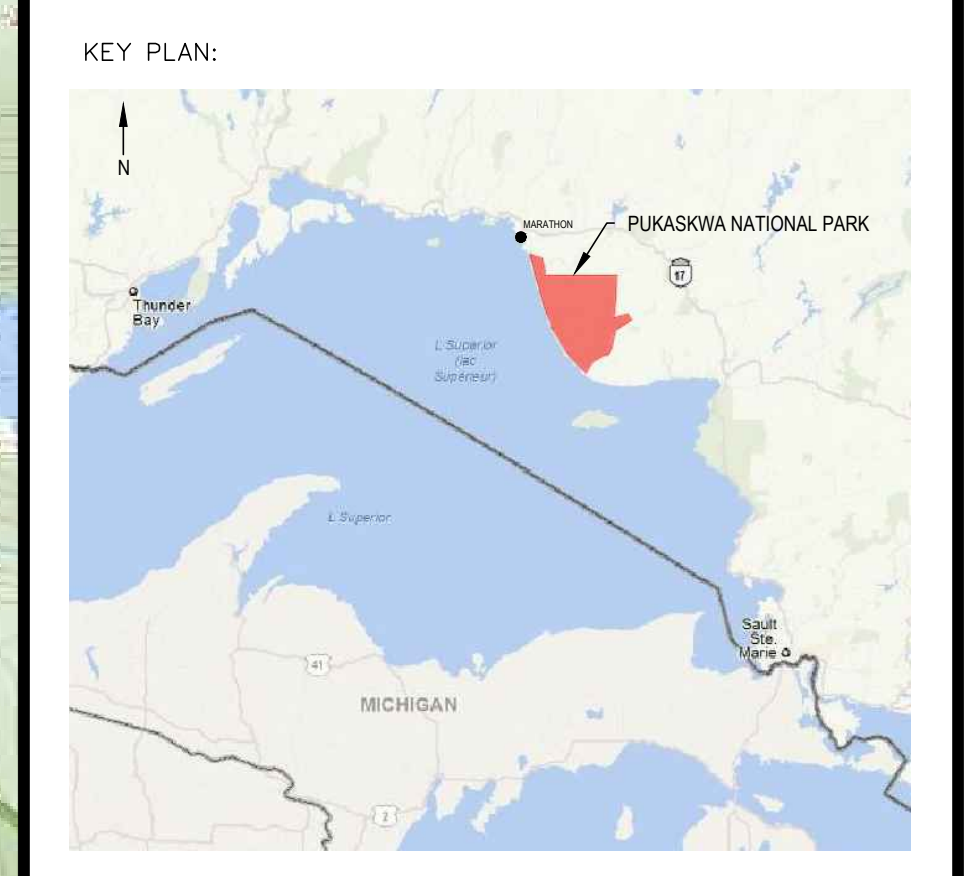
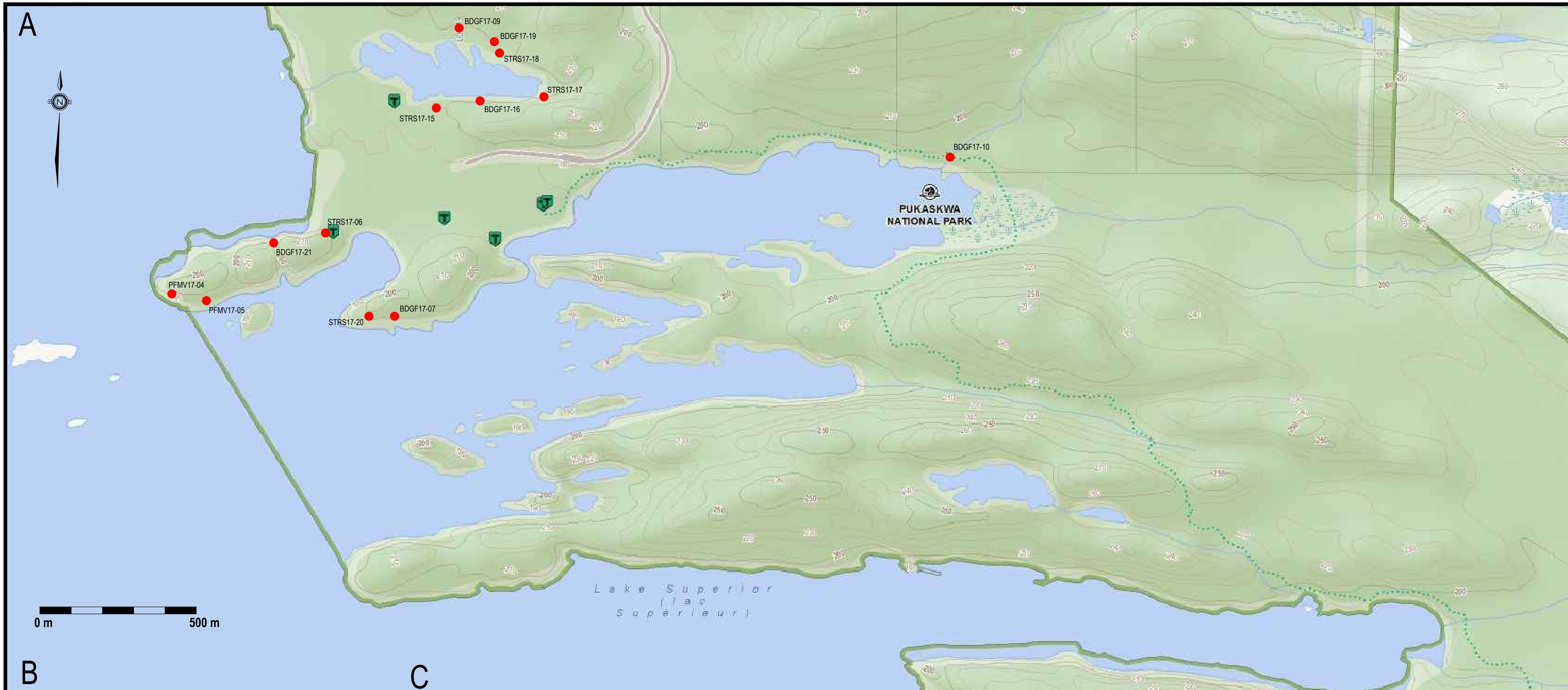
LIST OF DRAWINGS

C1.0	TITLE SHEET AND INDEX
C1.1	KEY PLAN
C1.2	GENERAL NOTES
C1.3	DETAILS SHEET 1 OF 2
C1.4	DETAILS SHEET 2 OF 2
C1.8	STRUCTURE 17-04
C1.9	STRUCTURE 17-05
C1.10	STRUCTURE 17-06
C1.11	STRUCTURE 17-07 (PROVISIONAL STRUCTURE)
C1.13	STRUCTURE 17-09 (PROVISIONAL STRUCTURE)
C1.14	STRUCTURE 17-10 SHEET 1 OF 2 (REMOVALS)
C1.15	STRUCTURE 17-10 SHEET 2 OF 2 (NEW CONSTRUCTION)
C1.18	STRUCTURE 17-15
C1.19	STRUCTURE 17-16 (PROVISIONAL STRUCTURE)
C1.20	STRUCTURE 17-17
C1.21	STRUCTURE 17-18
C1.22	STRUCTURE 17-19 (PROVISIONAL STRUCTURE)
C1.23	STRUCTURE 17-20 SHEET 1 OF 2 (REMOVALS)
C1.24	STRUCTURE 17-20 SHEET 2 OF 2 (NEW CONSTRUCTION)
C1.25	STRUCTURE 17-21 SHEET 1 OF 3 (REMOVALS)
C1.26	STRUCTURE 17-21 SHEET 2 OF 3 (NEW CONSTRUCTION)
C1.27	STRUCTURE 17-21 SHEET 3 OF 3 (NEW CONSTRUCTION)



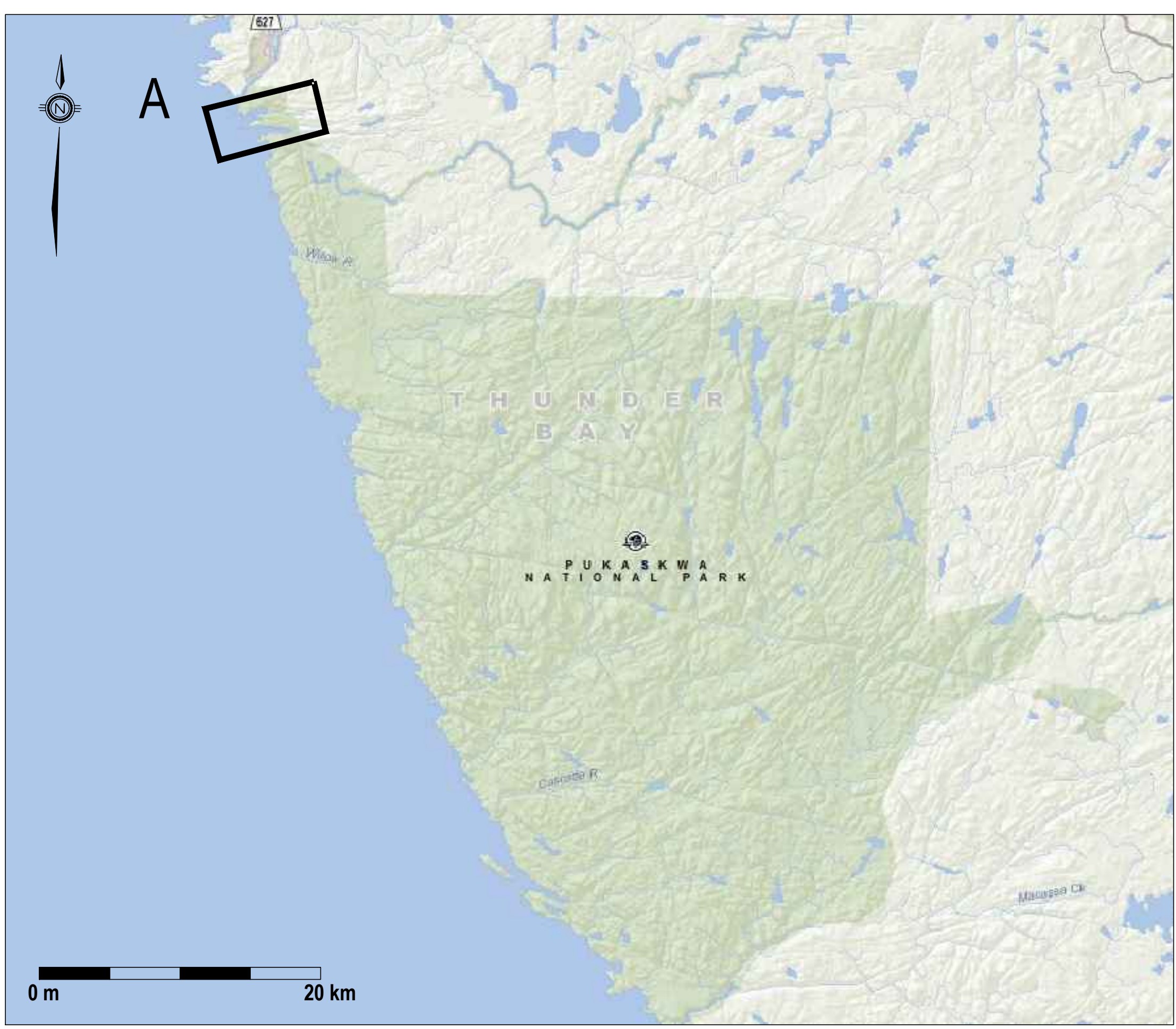
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WSP PROJECT # (151-06165-07)



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



E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
D	23MAR17	ISSUED FOR TENDER	VARIES	D.SPACEK
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Consultant's Name / Nom de l'expert-conseil: **WSP**

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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 JUN 26, 2017
Drawn by/Designé par --	Date JUN 26, 2017
Checked by/Vérifié par D.SPACEK	Date JUN 26, 2017
Approved by/Approuvé par D.SPACEK	Date JUN 26, 2017
Project No./N° du projet 1433	Scale/Échelle N.T.S
Drawing Set No./N° de série du dessin -	Sheet No./N° 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 STRUCTURE 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 17-10 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

E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
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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
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Consultant's Name Nom de l'expert-conseil 	Eng. Stamp Sceau de l'ingénieur 
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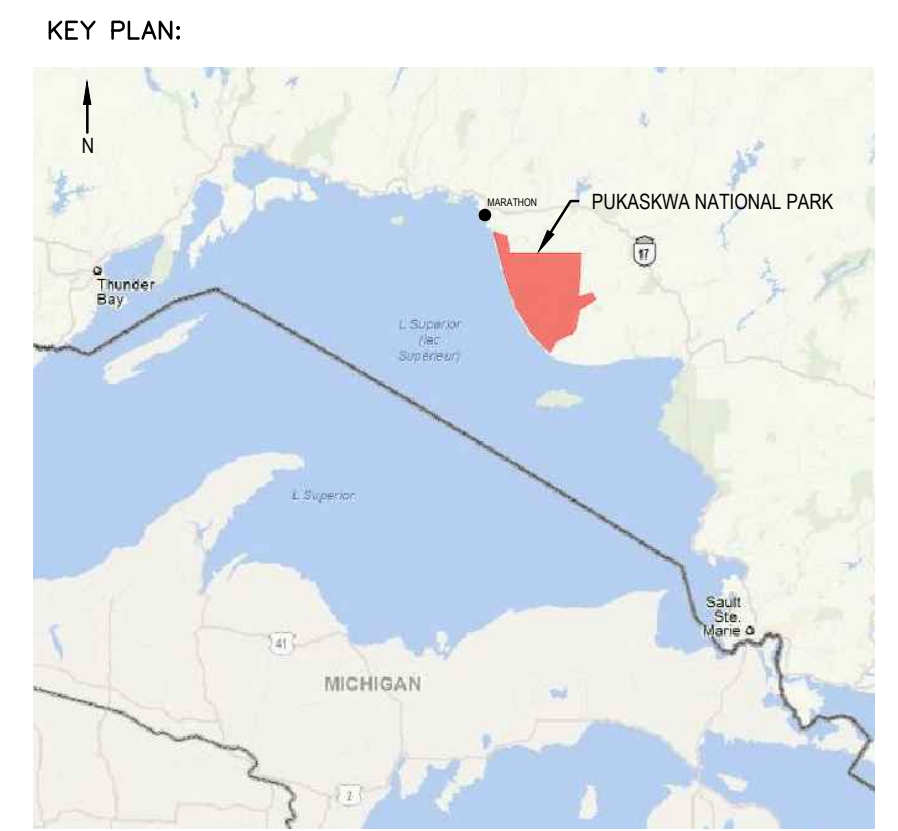
Project title/Titre du projet

**1433 PUK NP
TRAIL BRIDGE STRUCTURE
REHABILITATION PROJECT**

Drawing title/Titre du dessin

GENERAL NOTES

Designed by/Concept par M.PILON / A.MALLETTE	Date JUN 26, 2017
Drawn by/Dessiné par --	Date JUN 26, 2017
Checked by/Vérifié par D.SPACEK	Date JUN 26, 2017
Approved by/Approuvé par D.SPACEK	Date JUN 26, 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 C1.2



Legends:

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Linear dimensions in millimetres / Dimensions linéaires en millimètres	
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Consultant's Name / Nom de l'expert-conseil: **WSP**

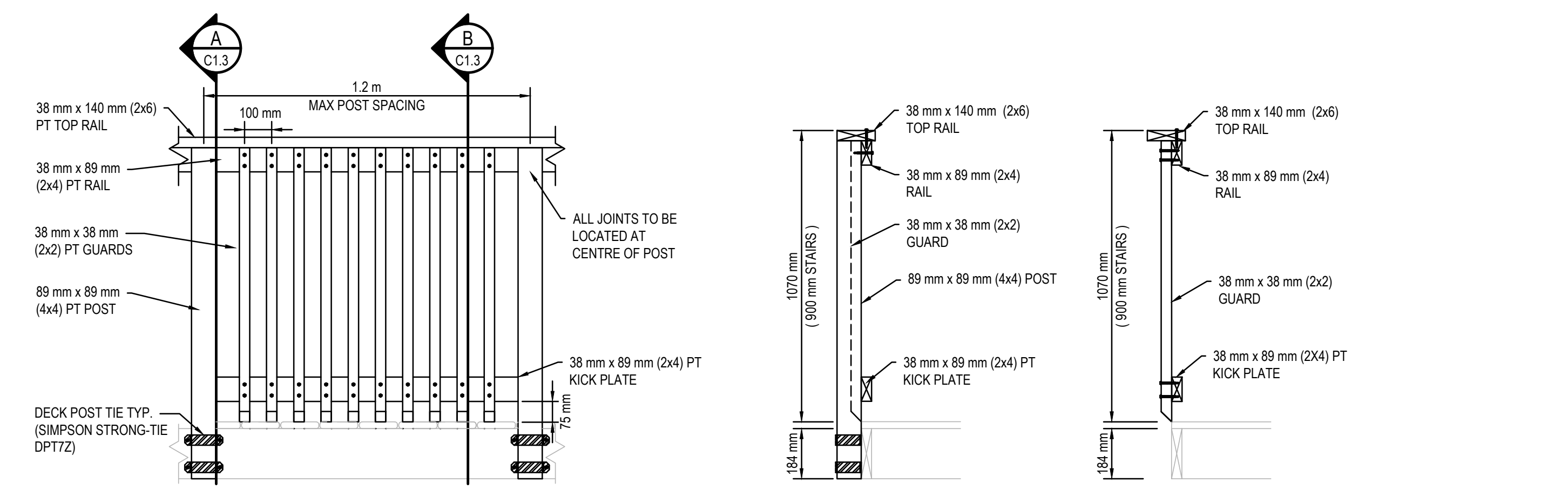
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WSP-SP-2011-15-0001-001 (WSP# 151-02105-07)

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

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

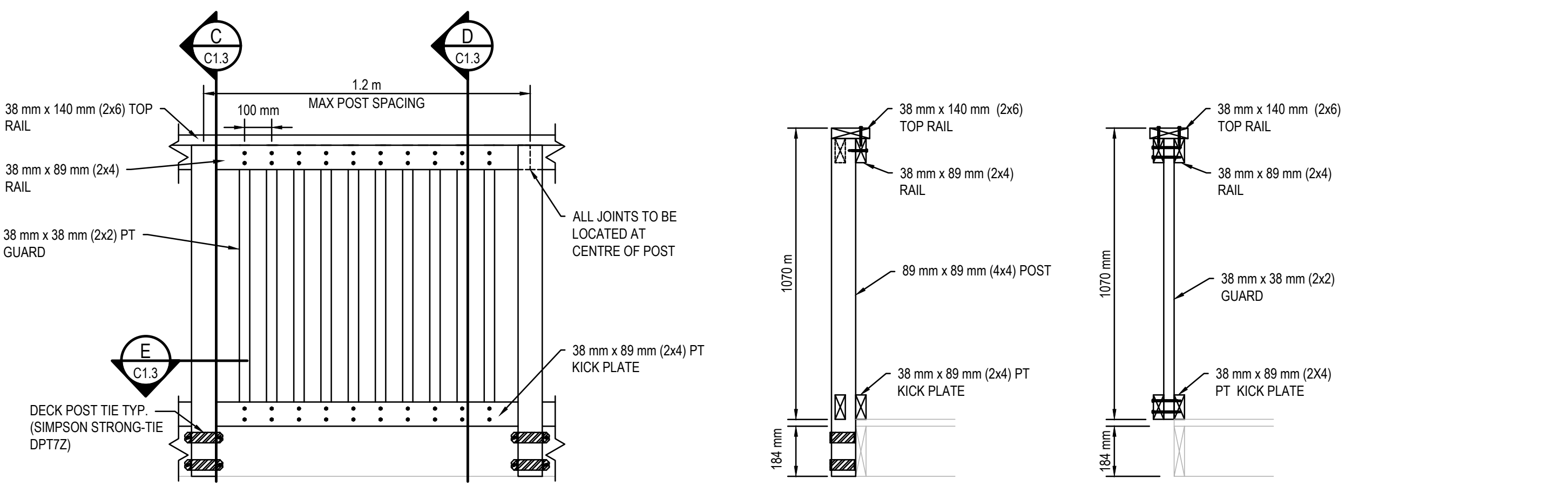
Designed by / Concept par: M.PILON / A.MALLETTE	Date: JUN 26, 2017
Drawn by / Dessiné par: T.PILON	Date: JUN 26, 2017
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DETAIL 1 - TYPICAL STRUCTURE POST, RAILING, AND GUARD SYSTEM
SCALE: 1:15

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

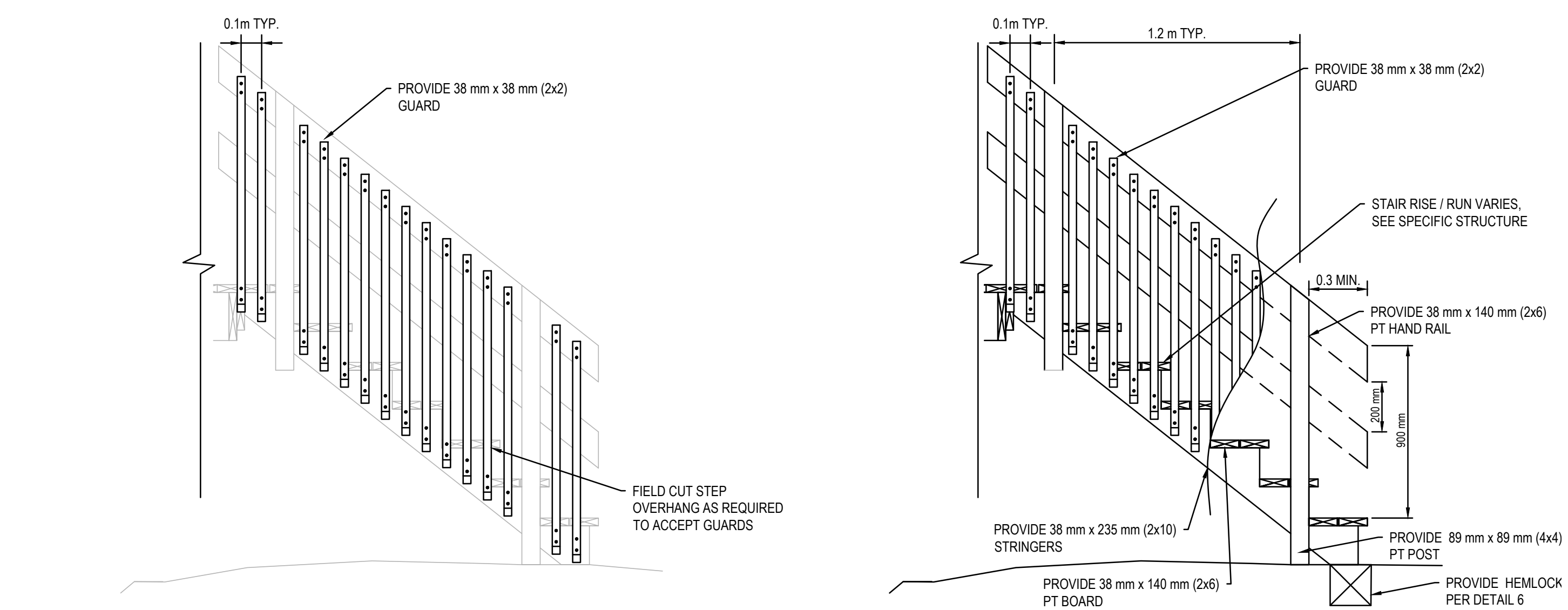
DETAIL 1 - TYPICAL STRUCTURE POST, RAILING, AND GUARD SYSTEM
SCALE: 1:15



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



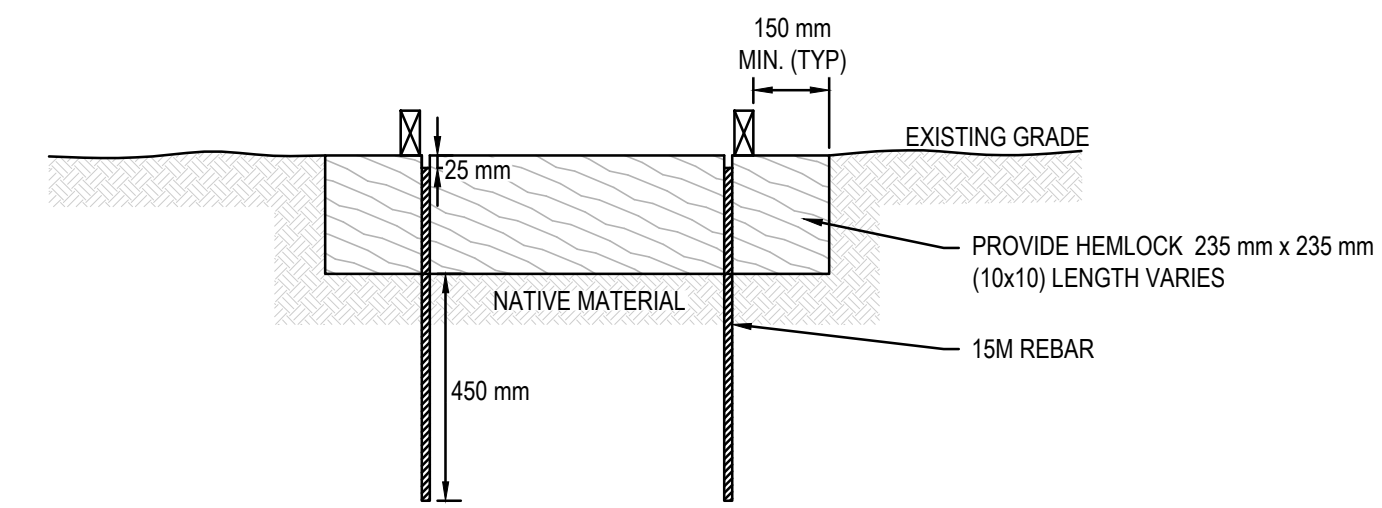
NOTE: ALTHOUGH NOT SHOWN FOR CLARITY, INSTALL SIMPSON POST SUPPORT BRACKETS ON ALL EXISTING AND PROPOSED RAILING POSTS.

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

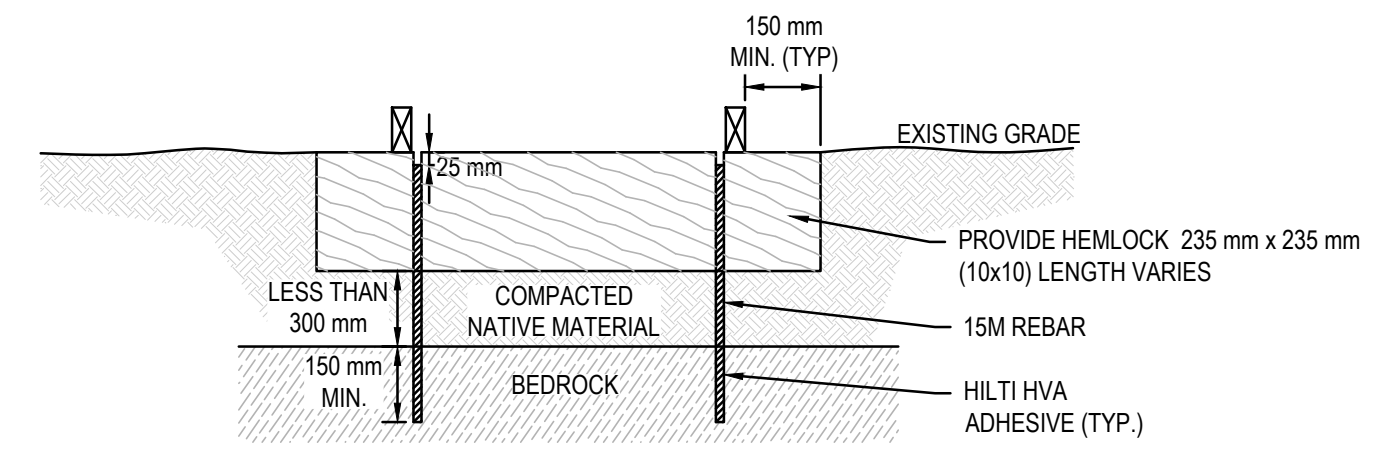
NOTE: MINIMUM WIDTH OF ALL NEW STAIRCASES (INSIDE OF GUARD TO INSIDE OF GUARD) SHALL BE 900 mm UNLESS OTHERWISE NOTED.

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

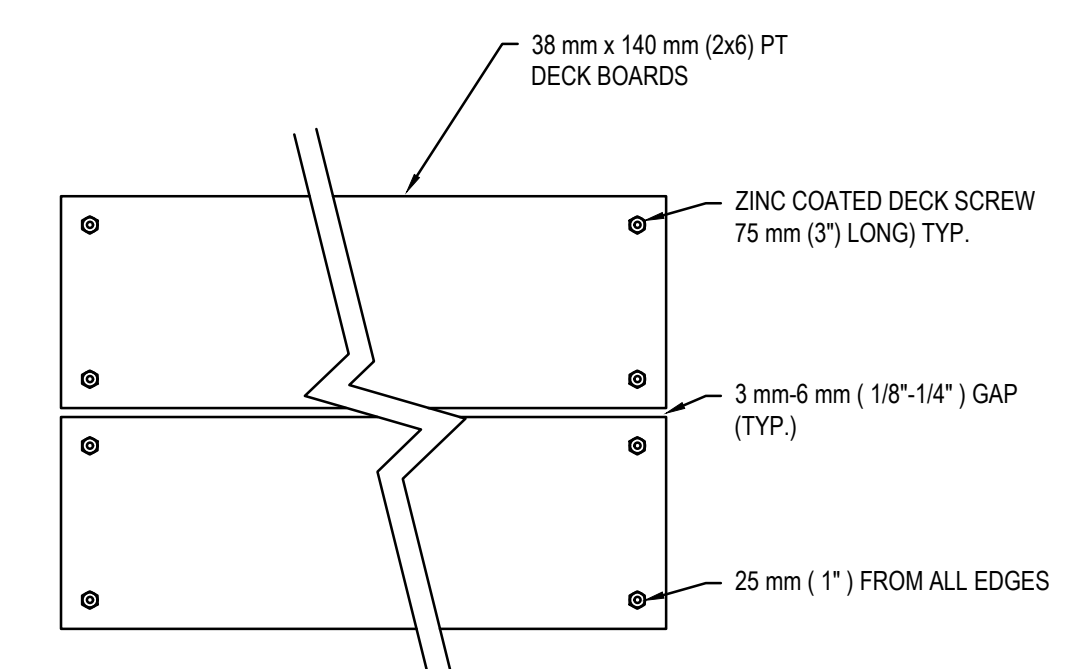
DETAIL 4 - STAIRCASE GUARD DETAIL PROPOSED STAIRS
SCALE: N.T.S.



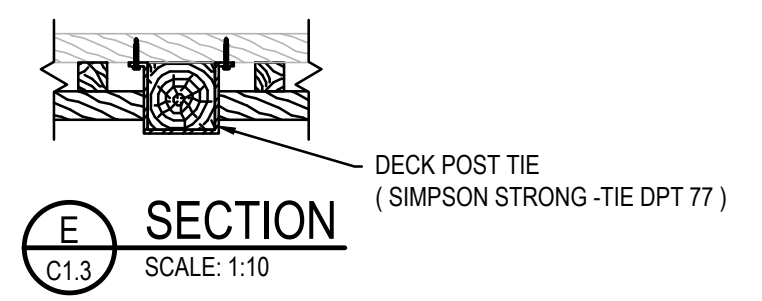
DETAIL 5 - HEMLOCK SLEEPER DETAIL - TYPE A
SCALE: 1:15



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



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



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



Legends:

NEW CONSTRUCTION

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- EXISTING / TO BE REMOVED
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Revision / Révision	
A	B

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

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

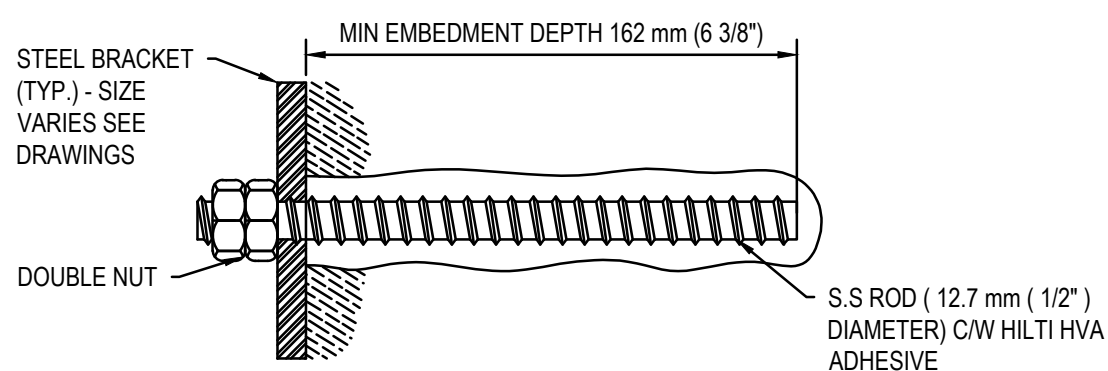
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WSP-SP201-15-0001-001 (WSP# 151-0210-07)

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

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

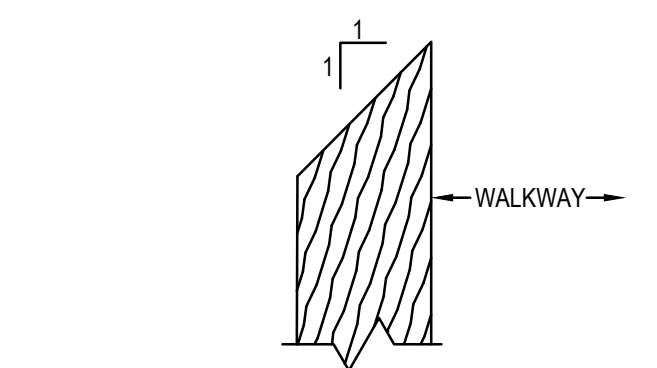
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DETAIL 8 - BEDROCK CONNECTION DETAIL
SCALE: N.T.S.

NOT APPLICABLE

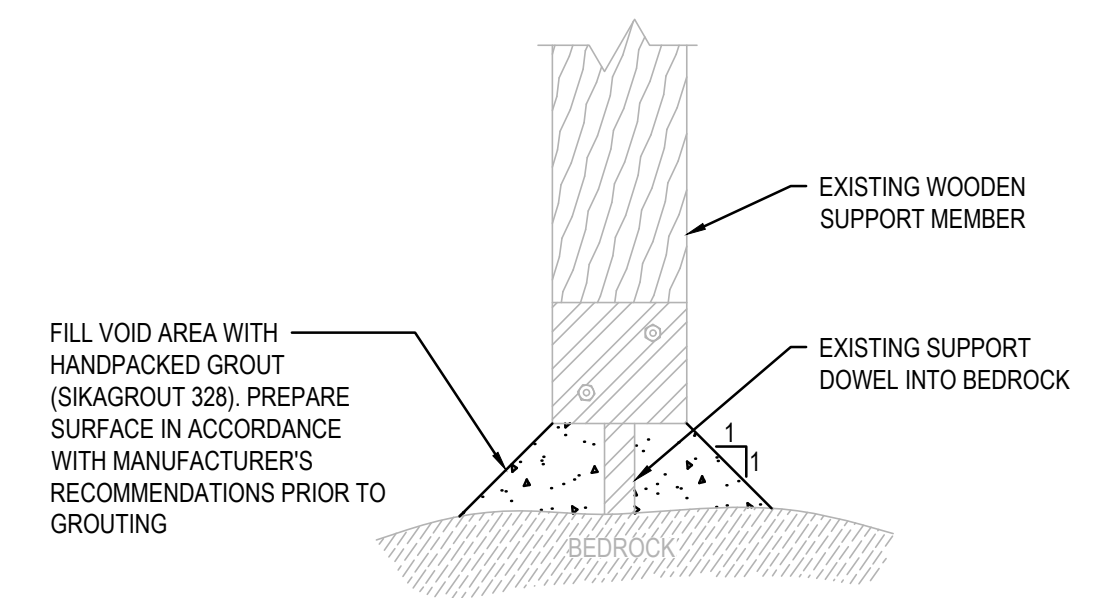
DETAIL 9 - DRAINAGE HOLE
SCALE: -



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

NOT APPLICABLE

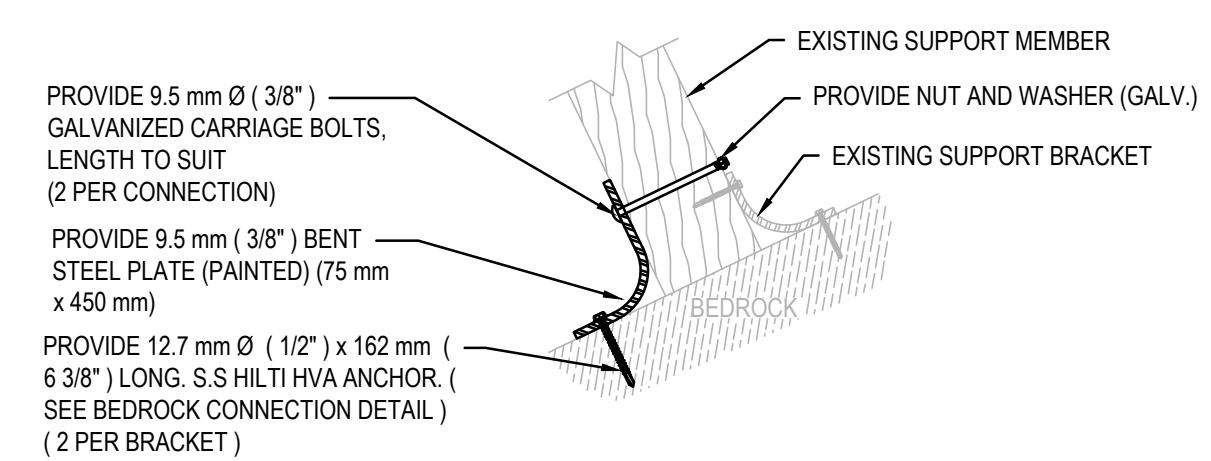
DETAIL 11 - COTTER PIN BENDING
SCALE: -



DETAIL 12 - GROUT BEARING SUPPORT
SCALE: 1:5

NOT APPLICABLE

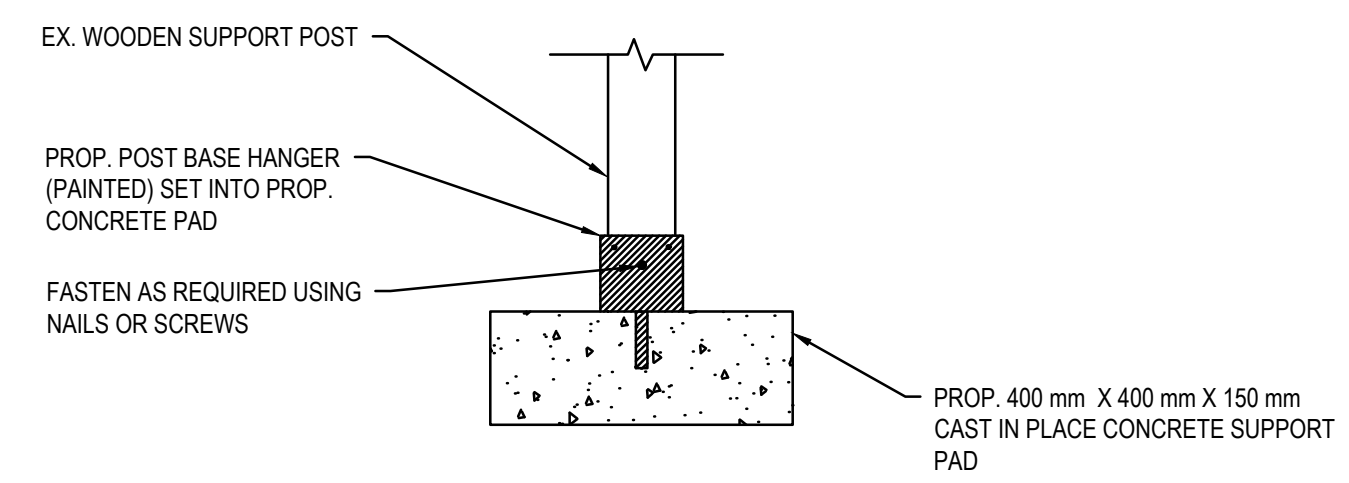
DETAIL 13 - GRATE PLATFORM BOLT DETAIL
SCALE: -



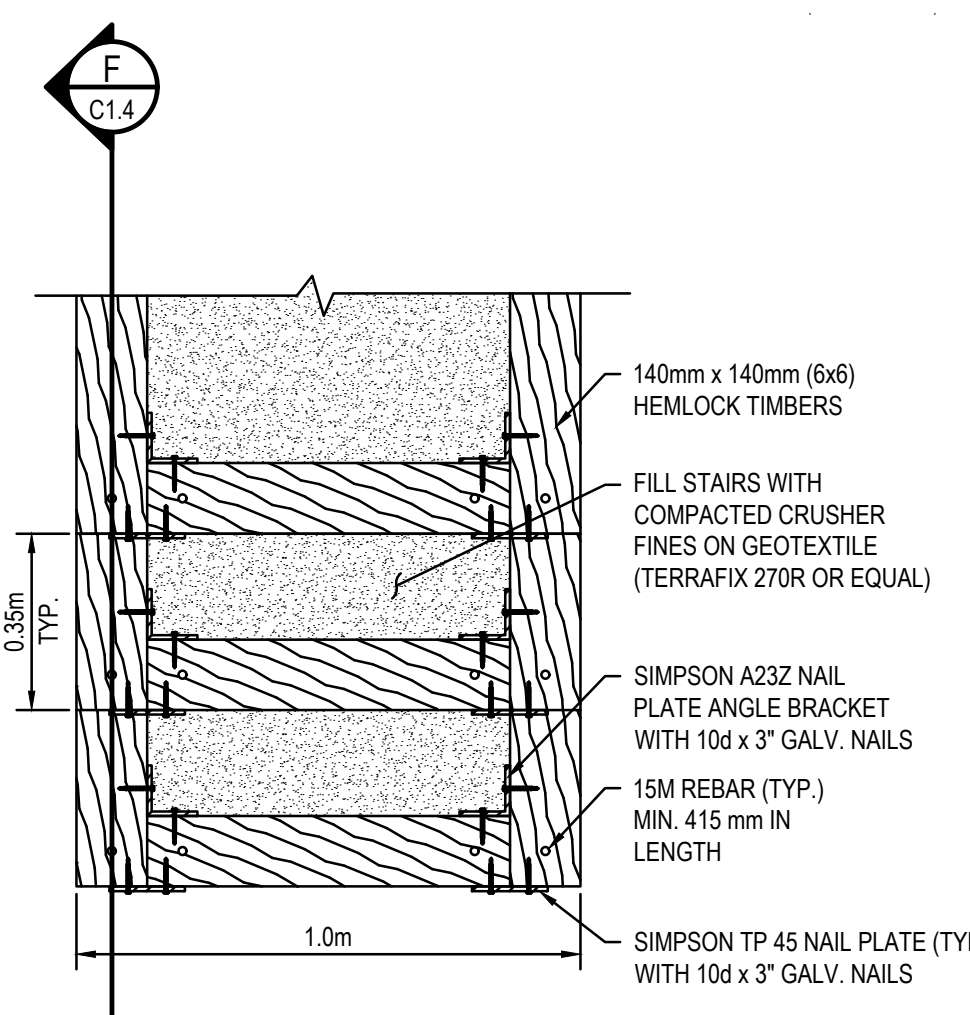
DETAIL 14 - POST SUPPORT BRACKET
SCALE: N.T.S.

NOT APPLICABLE

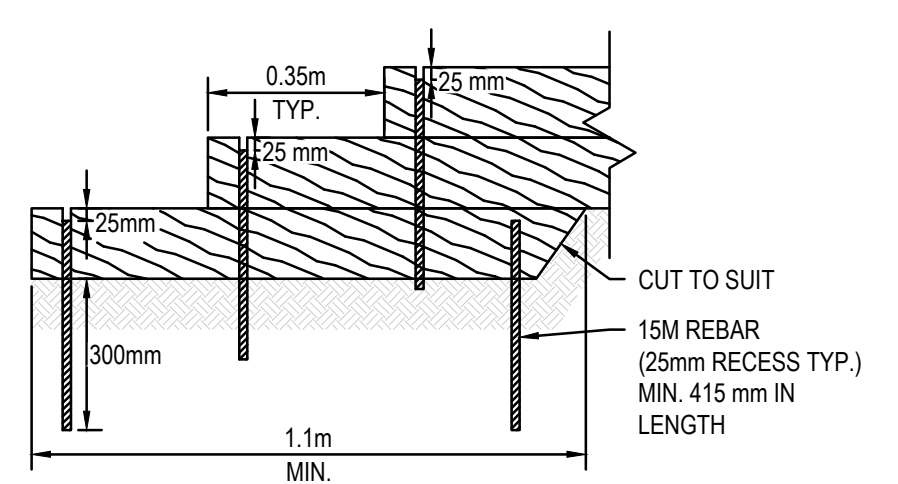
DETAIL 15 - STAIR ANTI-SLIP TREATMENT
SCALE: 1:10



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



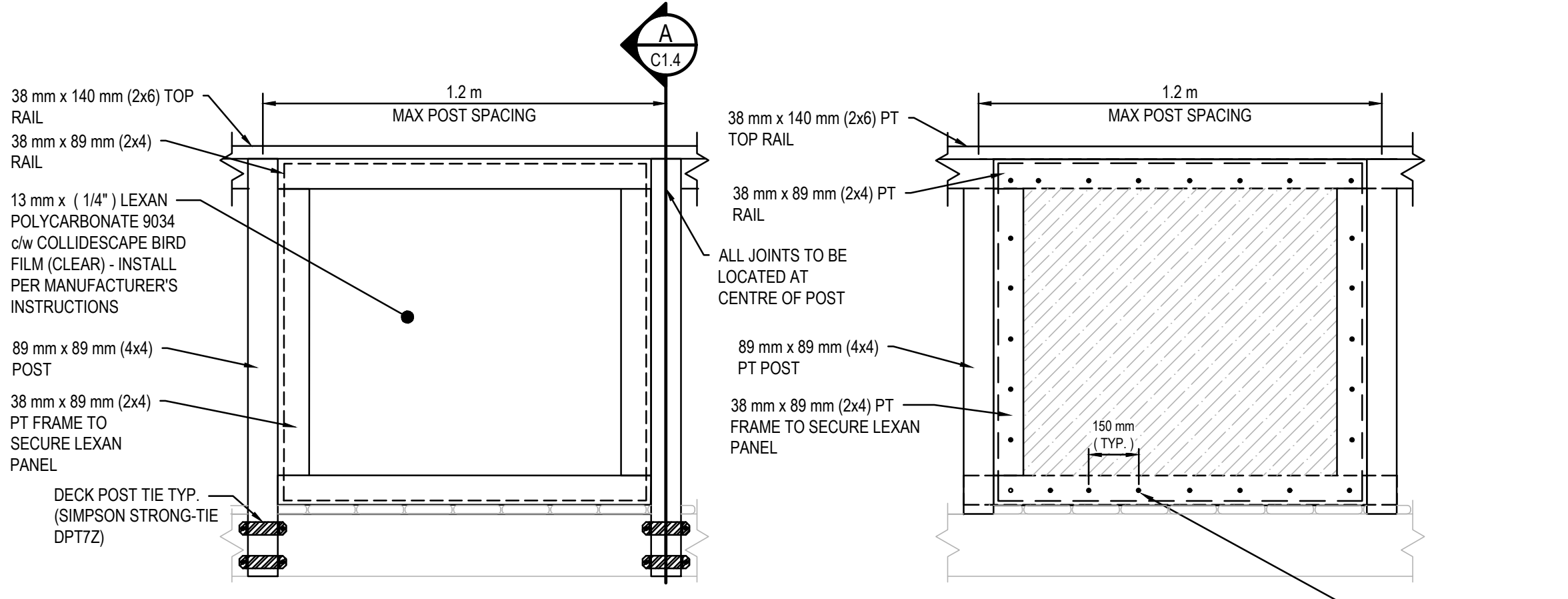
DETAIL 16 - BOX STAIR DETAIL
SCALE: 1:15



DETAIL 17 - BEAM LAMINATION DETAIL
SCALE: 1:5

NOT APPLICABLE

DETAIL 20 - WIRE TIE CONNECTION
SCALE: -

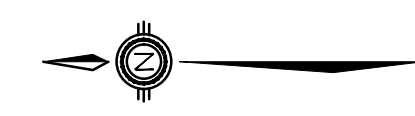


DETAIL 18 - LEXAN STRUCTURE RAILING AND GUARD
SCALE: 1:15

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

SECTION
SCALE: 1:15

STRUCTURE LOCATION
 NORTHING: 5381926
 EASTING: 551180



VIEW OF STRUCTURE FACING SOUTHWEST

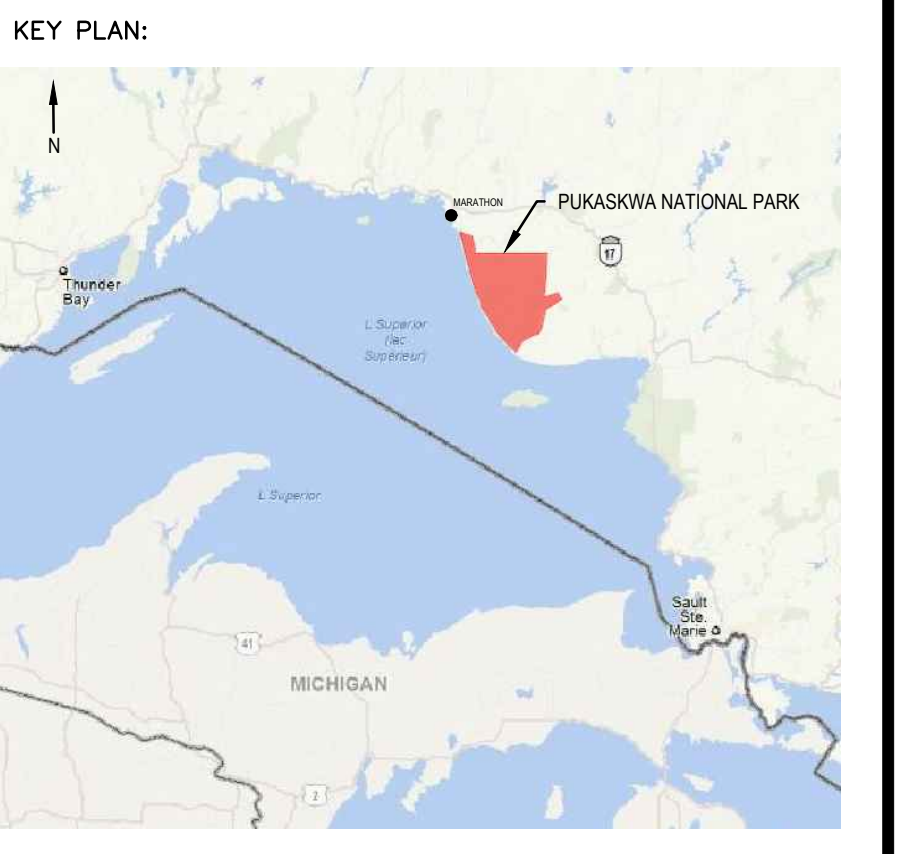


VIEW OF STRUCTURE FACING NORTH

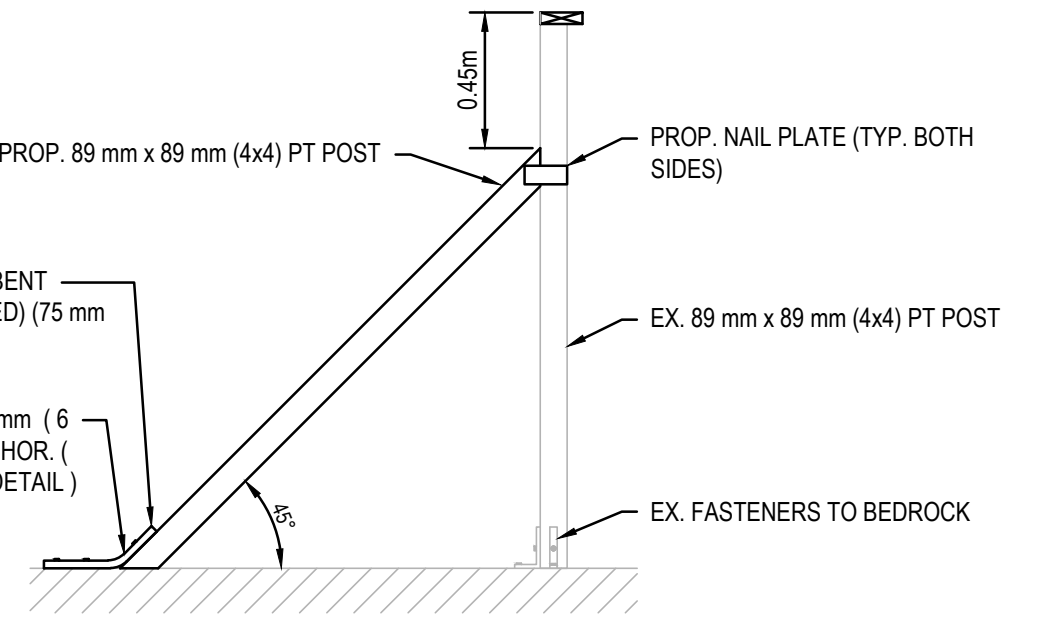
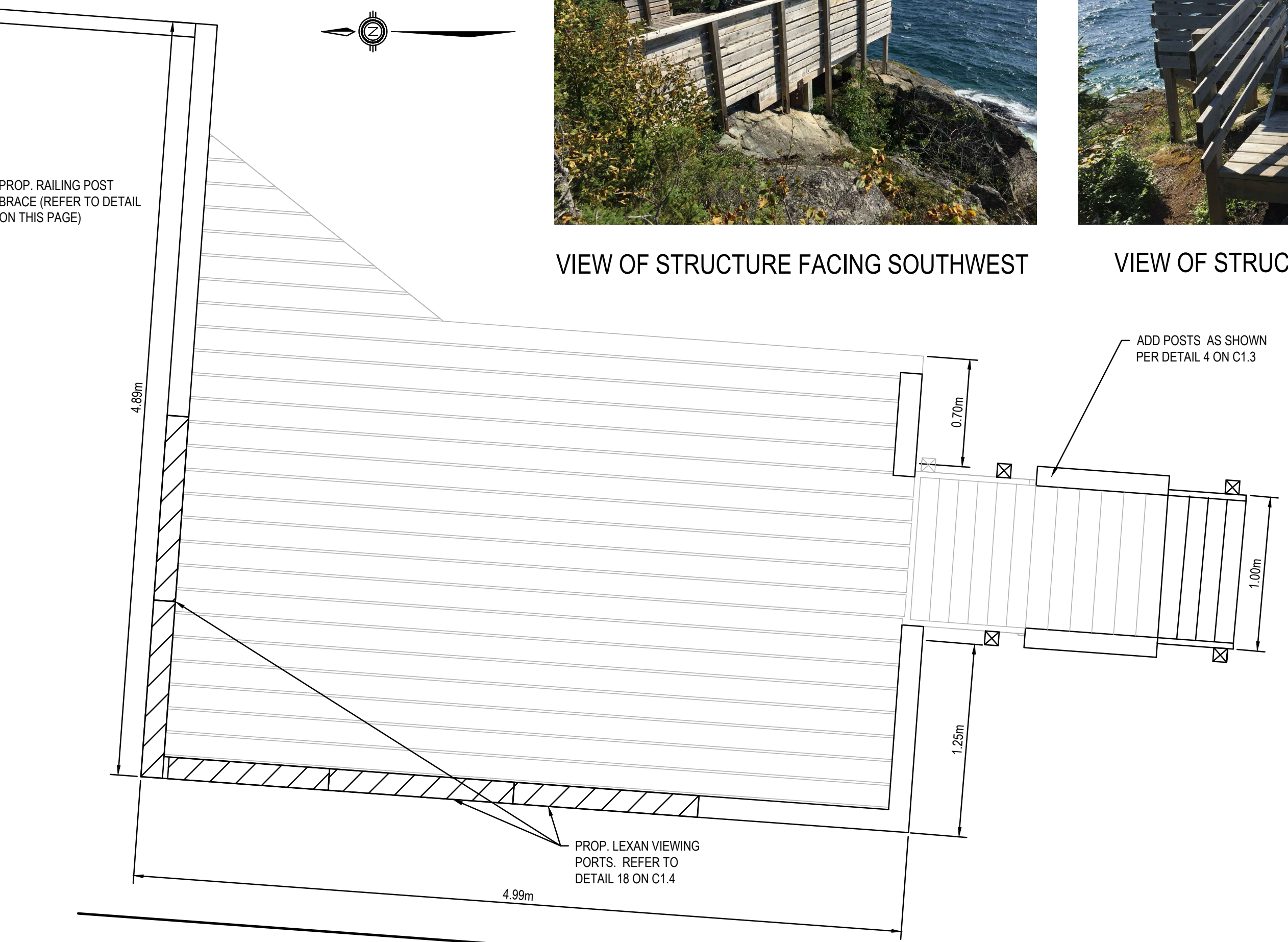


VIEW OF STRUCTURE FACING WEST

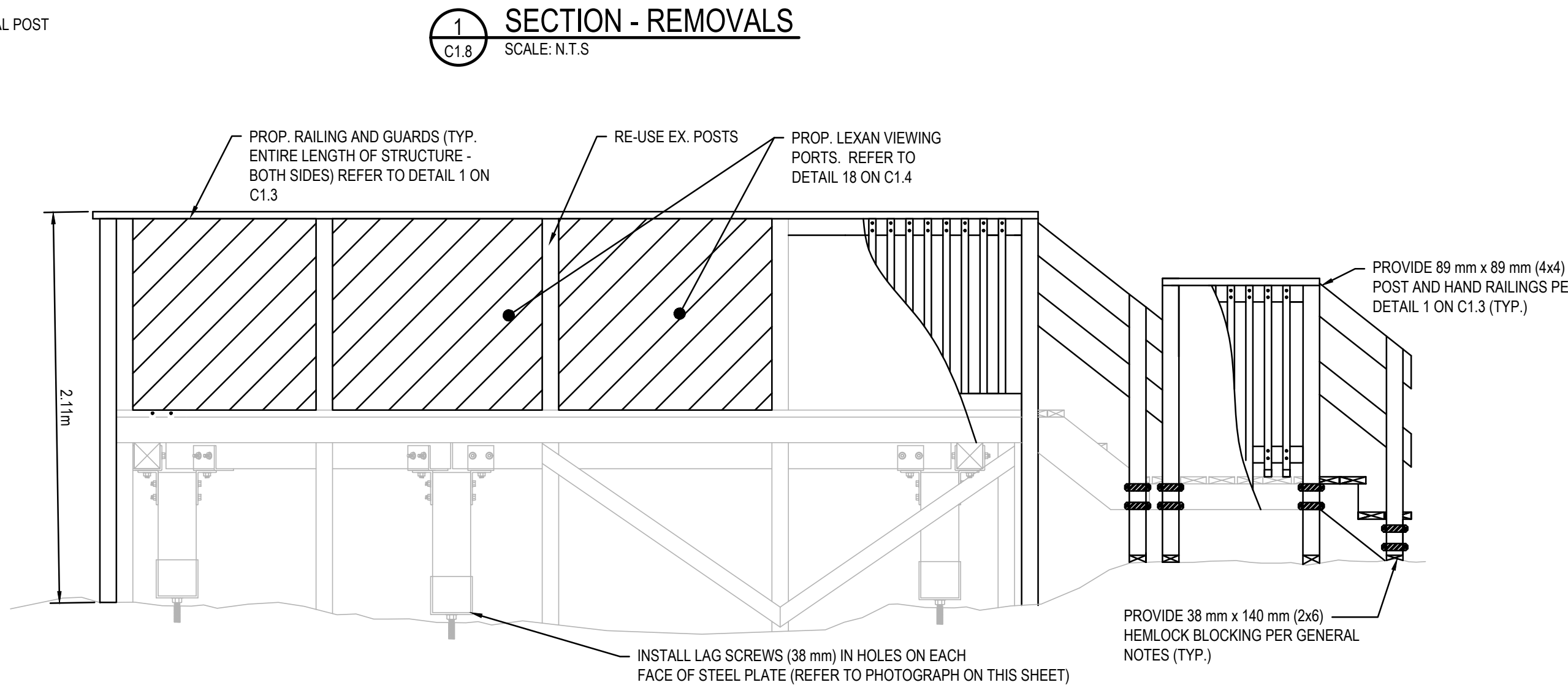
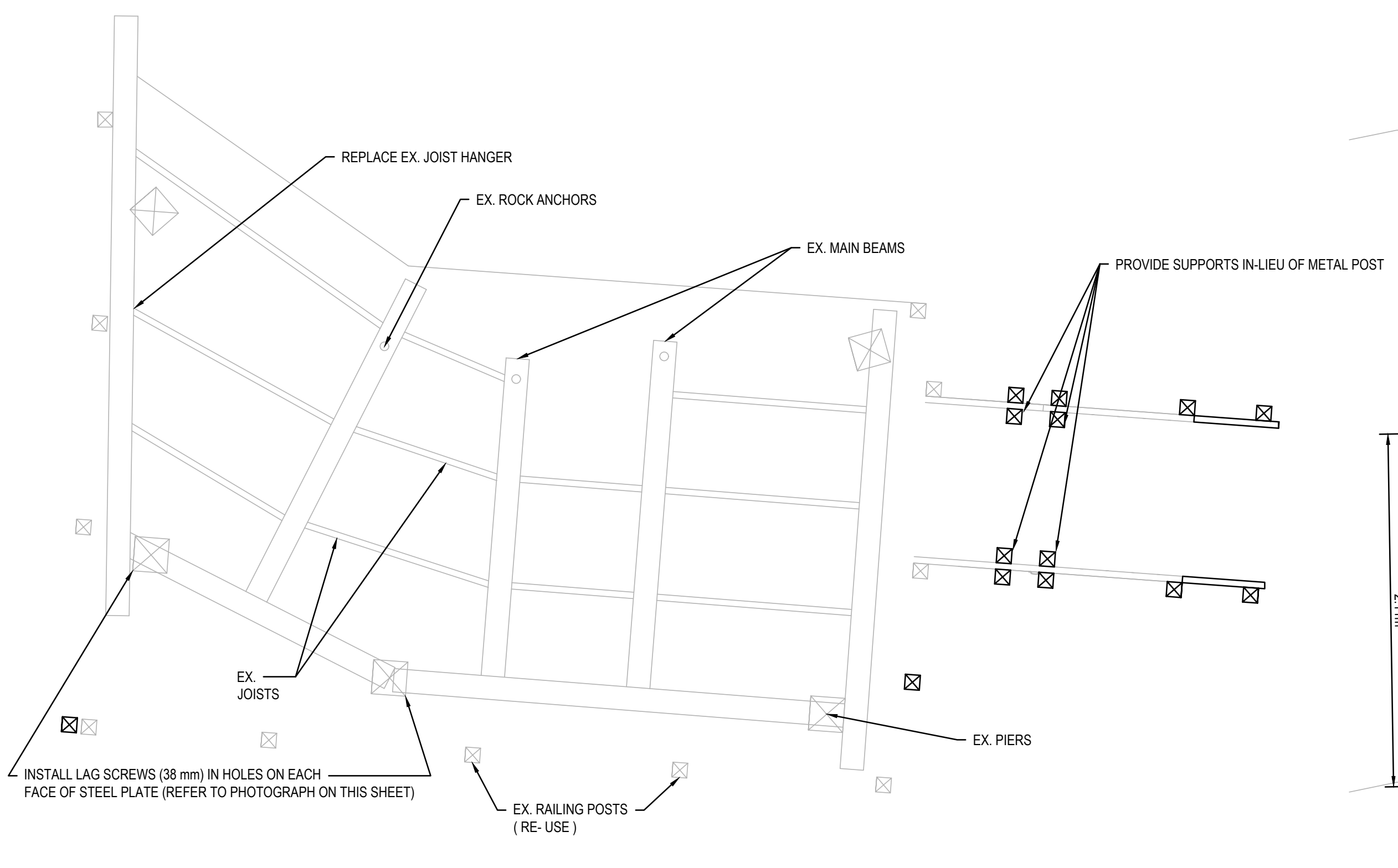
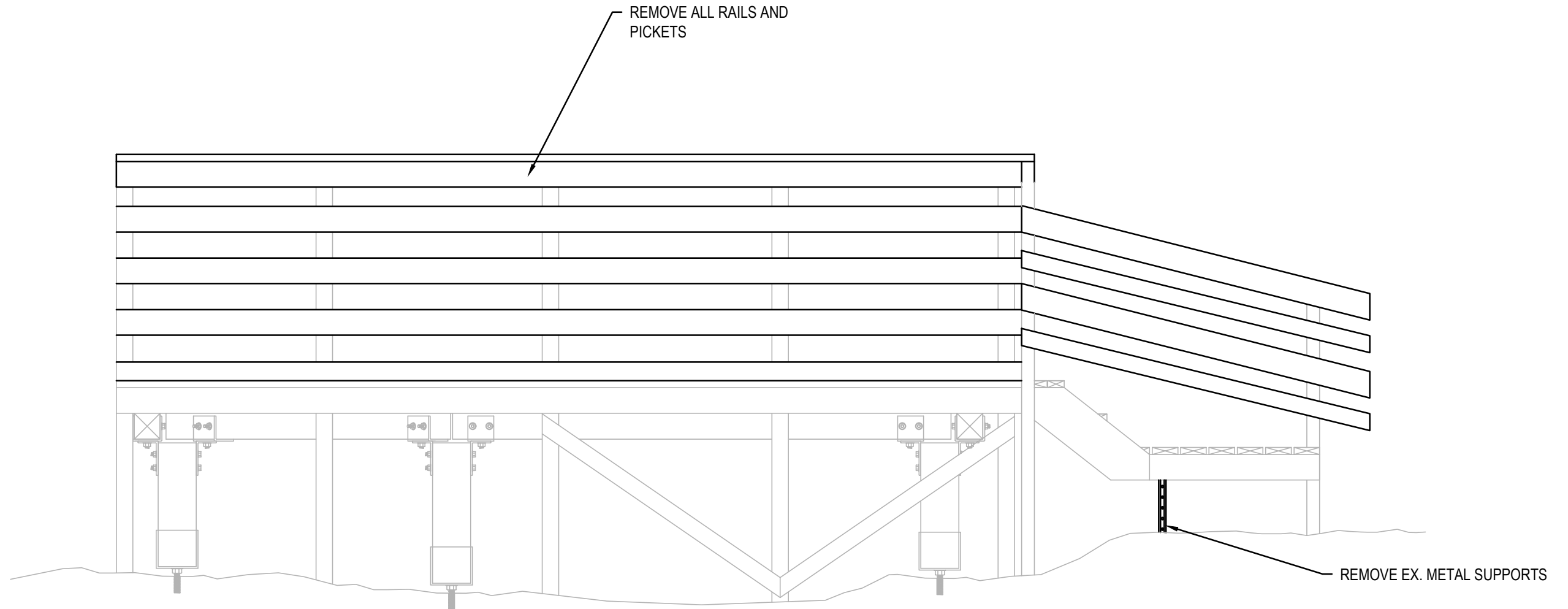
- SCOPE OF WORK:
1. RECONSTRUCT RAILINGS AS SHOWN;
 2. ADD POST REINFORCEMENT AS SHOWN;
 3. ADD LAG SCREWS TO BOTTOM POST CONNECTORS AS INDICATED (ALL HOLES);
 4. REPLACE JOIST HANGER AT WEST BEAM DIAPHRAGM;
 5. ADD FILL TO LEVEL GROUND AT BOTTOM OF EAST APPROACH STAIRWAY;
 6. ADD STAIRS AND HAND RAILINGS 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



VIEW OF MISSING POST BOLTS (TYP.)



No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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**

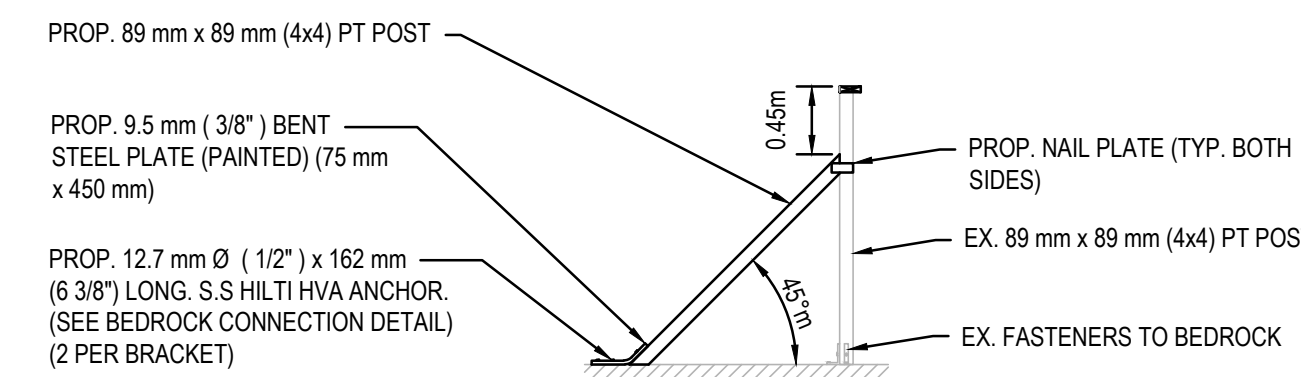
Project title / Titre du projet: **1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT**

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

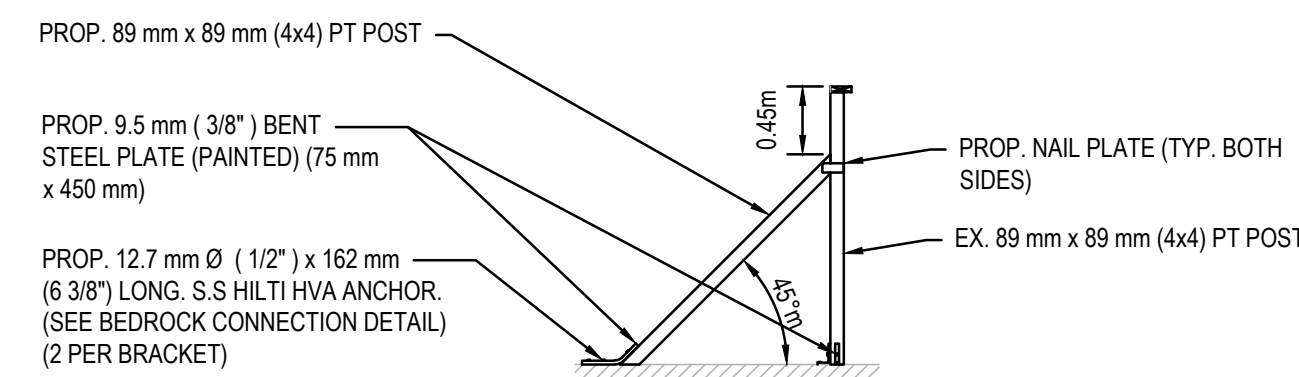
Designed by / Conçue par: M.PILON / A.MALLETTE	Date: JUN 26, 2017
Drawn by / Dessiné par: T.PILON / M.PILON / R.COPPENS	Date: JUN 26, 2017
Checked by / Vérifié par: D.SPACEK	Date: JUN 26, 2017
Approved by / Approuvé par: D.SPACEK	Date: JUN 26, 2017
Project No. / N° du projet: 1433	Scale / Échelle: AS NOTED
Drawing Set No. / N° de série du dessin: -	Sheet No. / N° de la feuille: C1.8

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.

KEY PLAN:



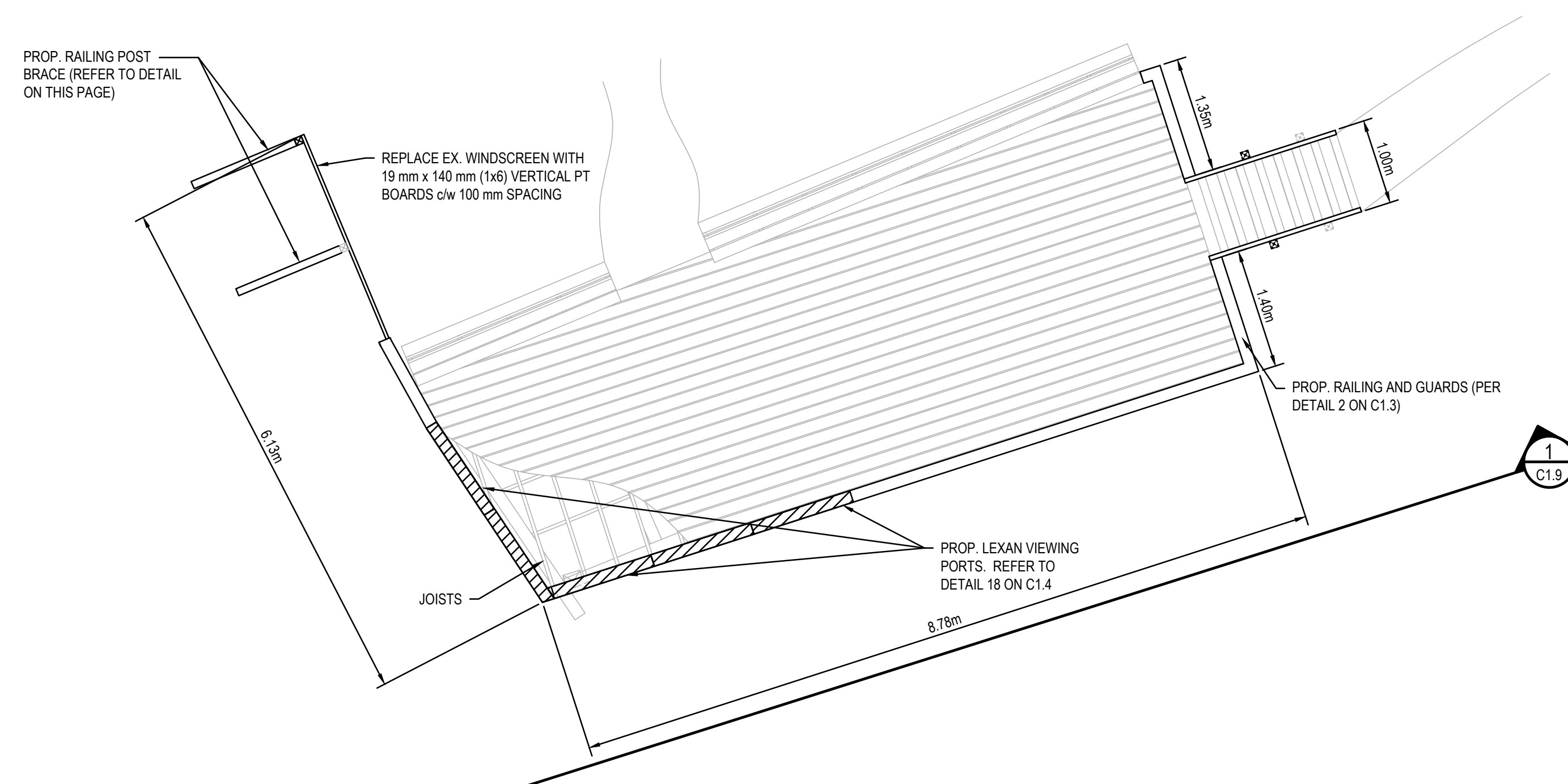
Legends:

NEW CONSTRUCTION

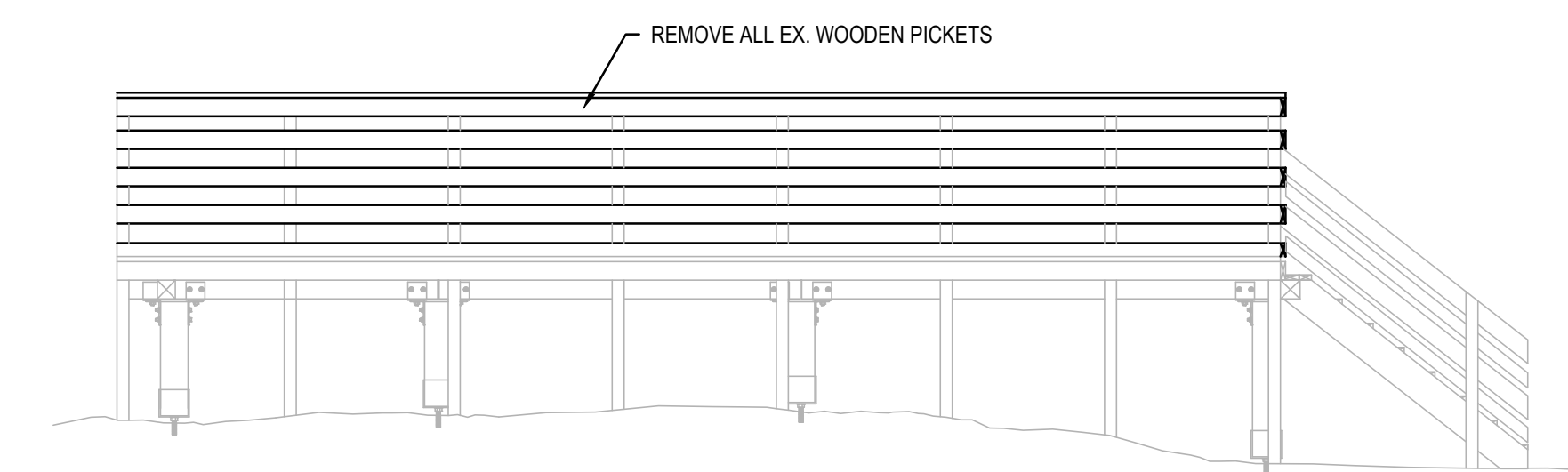
- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

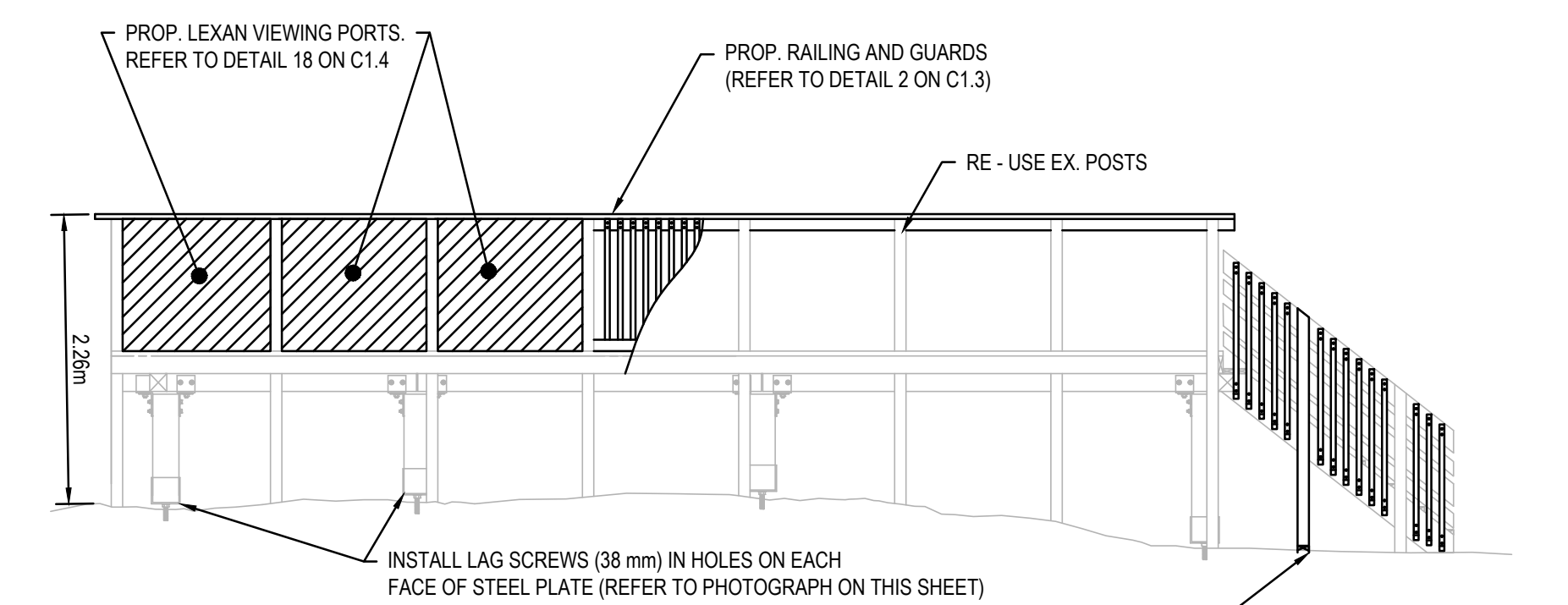
- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN



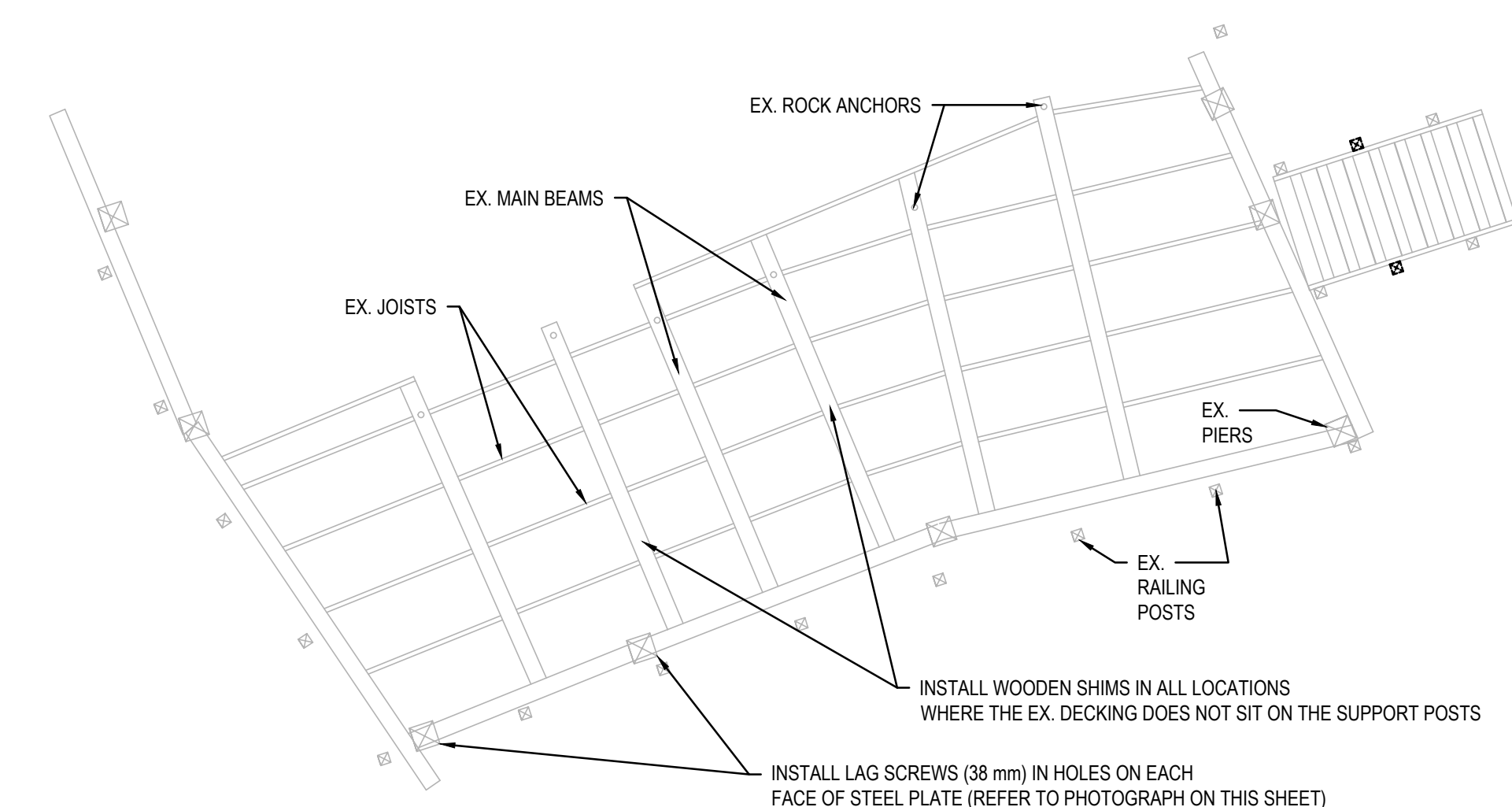
DECK PLAN
SCALE: N.T.S



SECTION - REMOVALS
SCALE: N.T.S



SECTION - PROPOSED
SCALE: N.T.S



STRUCTURAL PLAN
SCALE: N.T.S



VIEW OF STRUCTURE FACING NORTH



VIEW OF STRUCTURE FACING SOUTHWEST



VIEW OF STRUCTURE FACING NORTHEAST



VIEW OF MISSING SUPPORT BOLTING
ADD LAG SCREWS

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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 JUN 26, 2017
Drawn by/Dessiné par T.PILON / M.PILON / R.COPPENS	Date JUN 26, 2017
Checked by/Vérifié par D.SPACEK	Date JUN 26, 2017
Approved by/Approuvé par D.SPACEK	Date JUN 26, 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 C1.9

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

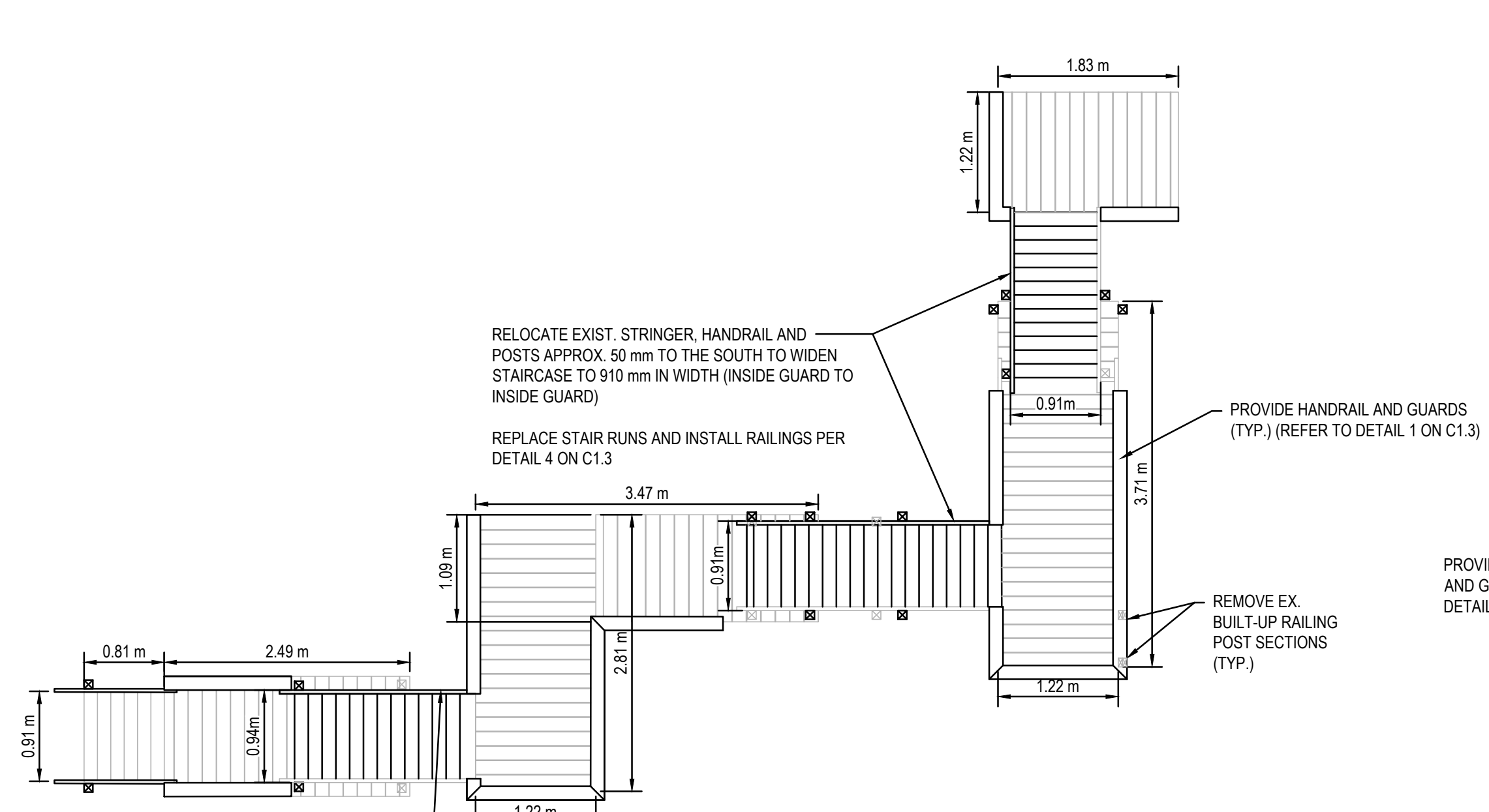
■ PROPOSED / TO BE PROVIDED

■ EXISTING / TO REMAIN

REMOVALS

■ EXISTING / TO BE REMOVED

■ EXISTING / TO REMAIN

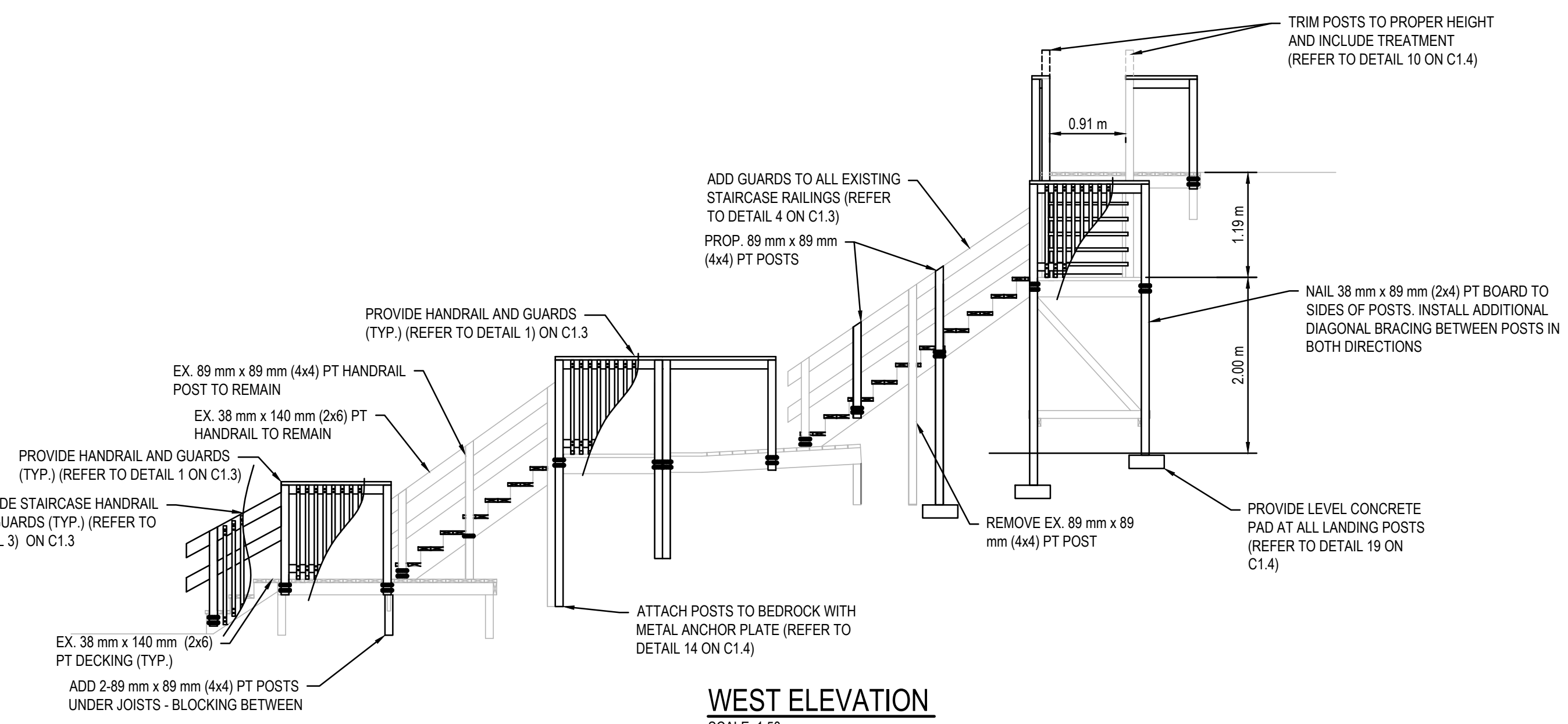


PLAN VIEW

SCALE: 1:50

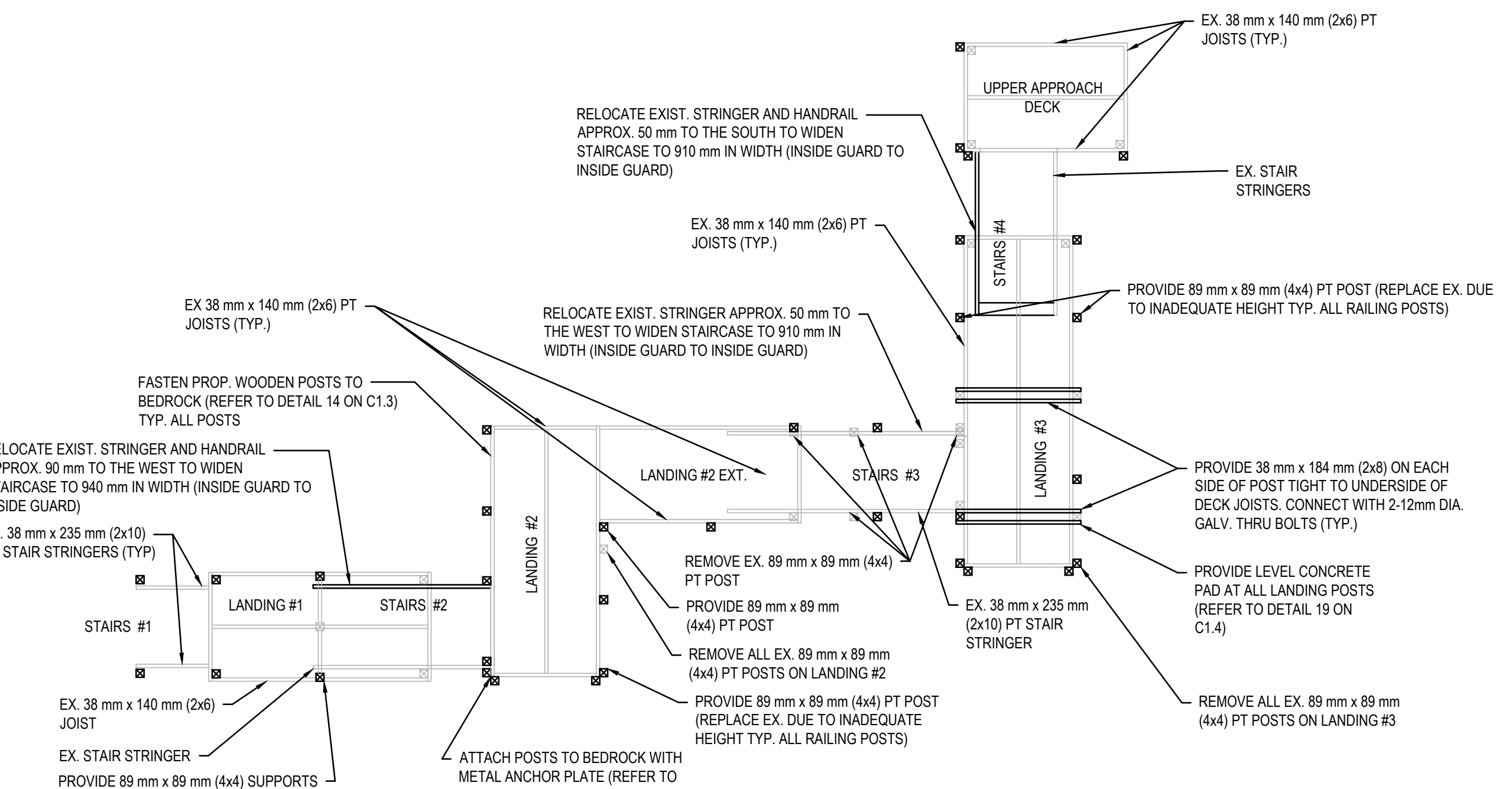
RELOCATE EXIST. STRINGER AND HANDRAIL APPROX. 90 mm TO THE WEST TO WIDEN STAIRCASE TO 940 mm IN WIDTH (INSIDE GUARD TO INSIDE GUARD)

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



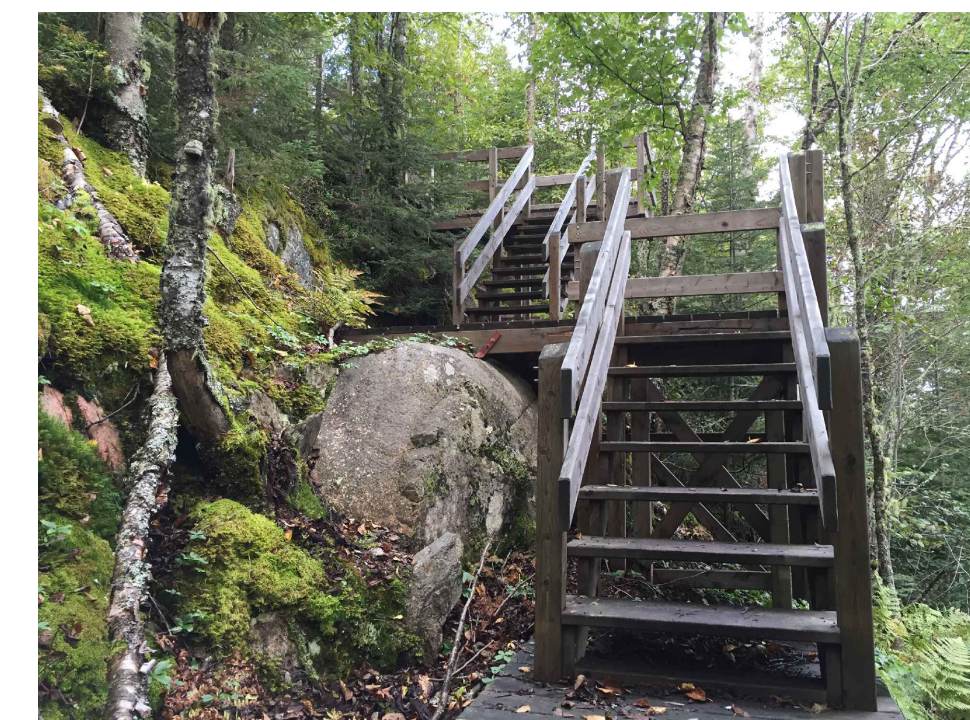
WEST ELEVATION

SCALE: 1:50

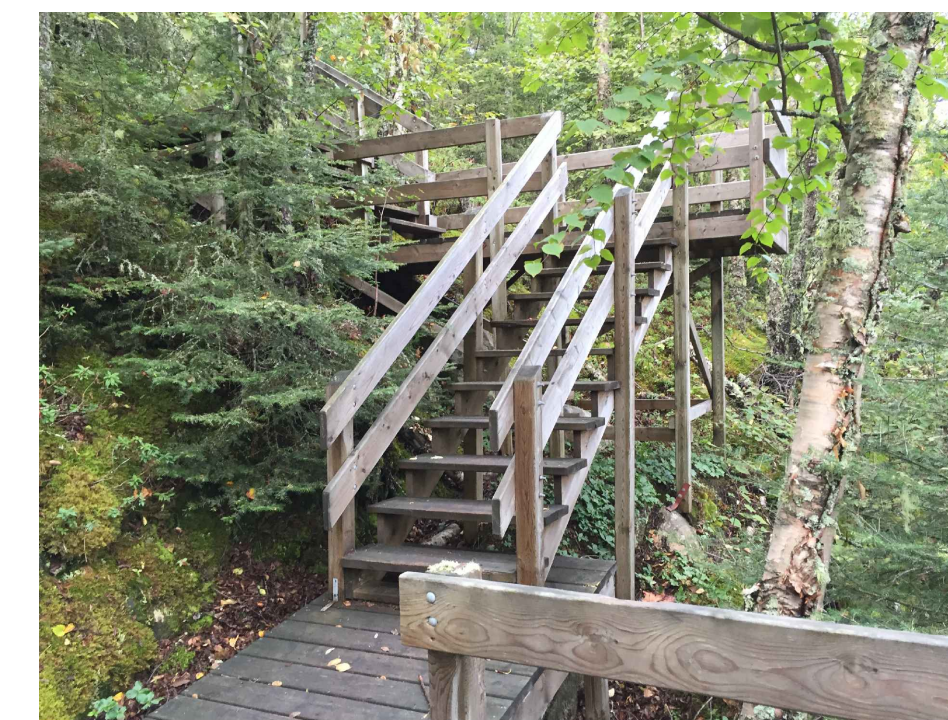


STRUCTURAL PLAN

SCALE: 1:50



VIEW OF STAIRS #2 FACING NORTH



VIEW OF STAIRS #3 FACING NORTHWEST



VIEW OF STAIRS #4 FACING SOUTHEAST

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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

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

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

186 EAST STREET
SUITE 101
GALLT SITE (NORTH) ONTARIO, CANADA, P6A 3C8
TEL: 705-942-3070 / FAX: 705-942-3532 / WWW.WSPGROUP.COM
WSP-SP-2011-15-0001-001 (WSP# 151-02165-07)

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

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

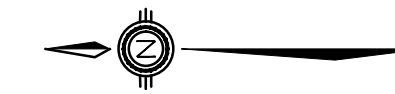
Designed by/Concept par: M.PILON / A.MALLETTE	Date: JUN 26, 2017
Drawn by/Dessiné par: M.PILON / T.PILON / R.COPPENS	Date: JUN 26, 2017
Checked by/Vérifié par: D.SPACEK	Date: JUN 26, 2017
Approved by/Approuvé par: D.SPACEK	Date: JUN 26, 2017
Project No./N° du projet: 1433	Scale/Echelle: AS NOTED
Drawing 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

E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
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

<p>Consultant's Name / Nom de l'expert-consultant</p> <p>186 EAST STREET SALT SPRING ISLAND, ONTARIO, CANADA, P9A 3C8 TEL: 705-942-3070 / FAX: 705-942-3532 / WWW.WSPGROUP.COM WSP-SP-2011-15-0001-001 (WSP# 151-02105-07)</p>	<p>Eng. Stamp / Sceau de l'ingénieur</p>
--	--

Project title / Titre du projet

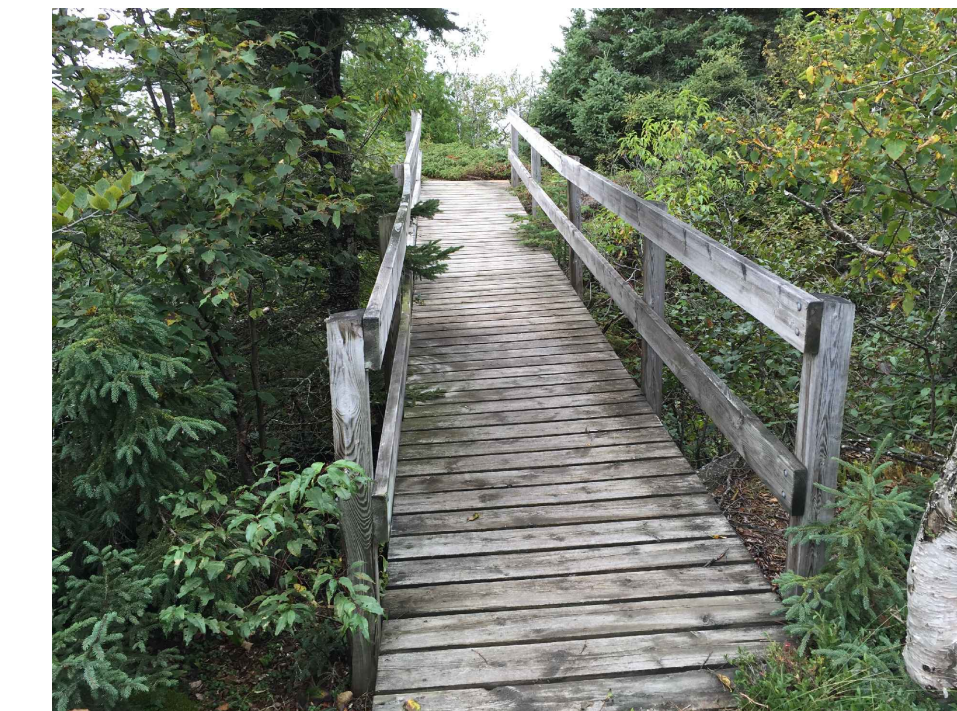
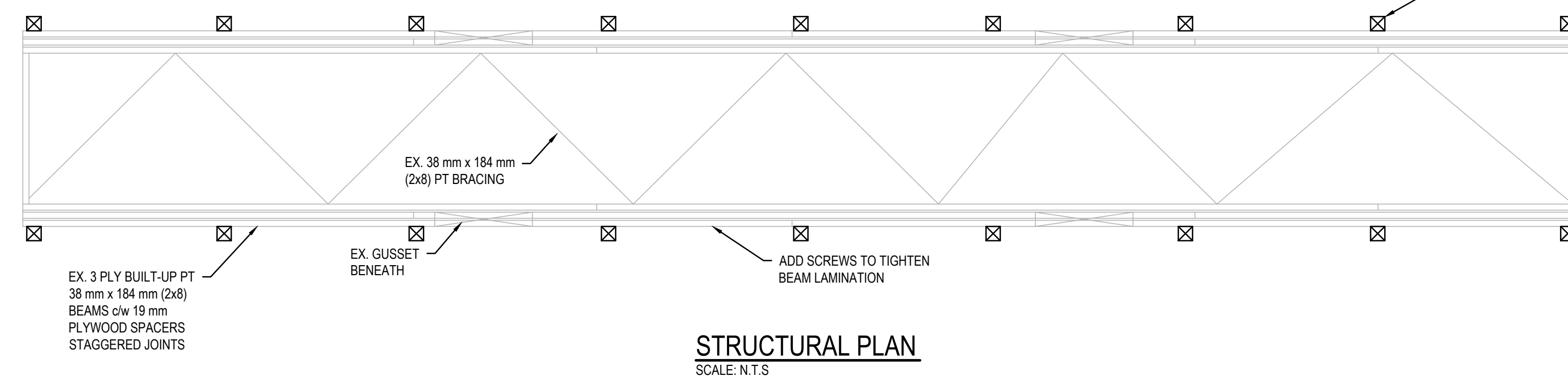
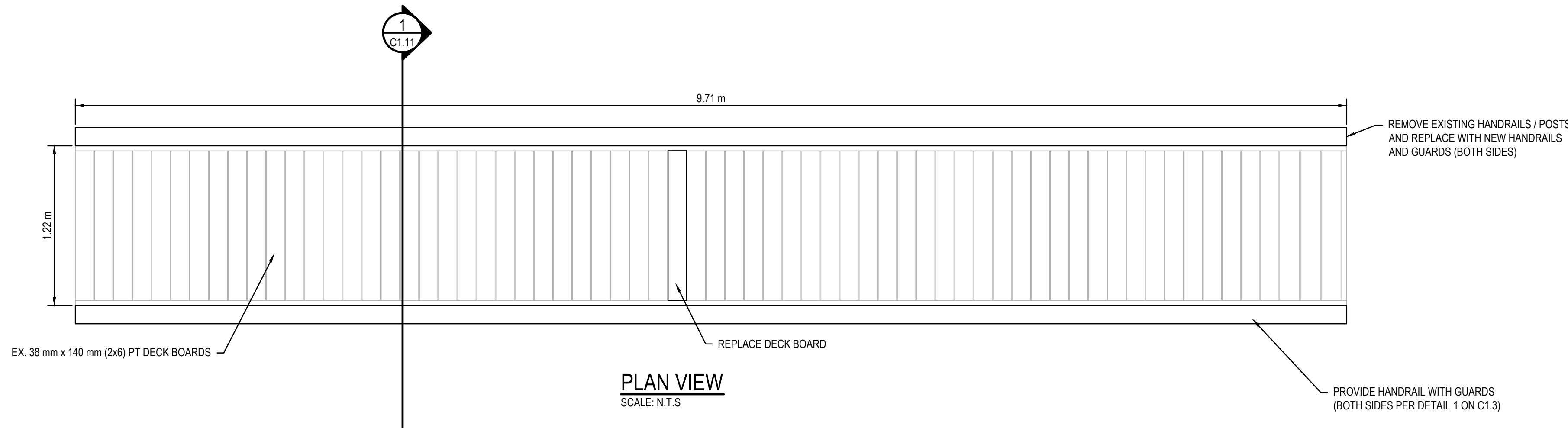
**1433 PUK NP
TRAIL BRIDGE STRUCTURE
REHABILITATION PROJECT**

Drawing title / Titre du dessin

**STRUCTURE 17-07
(PROVISIONAL STRUCTURE)**

Designed by / Concept par M.PILON / A.MALLETTE	Date JUN 26, 2017
Drawn by / Dessiné par T.PILON / M.PILON / R.COPPENS	Date JUN 26, 2017
Checked by / Vérifié par D.SPACEK	Date JUN 26, 2017
Approved by / Approuvé par D.SPACEK	Date JUN 26, 2017

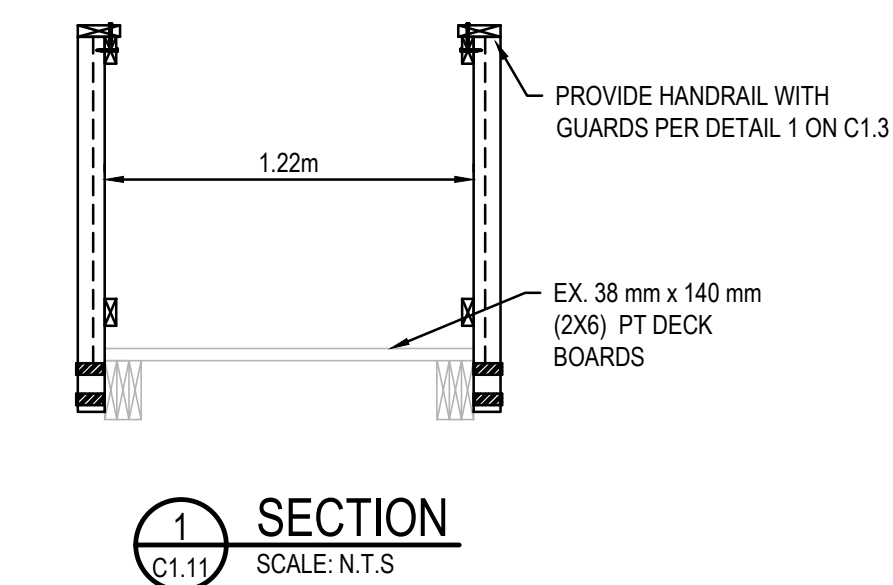
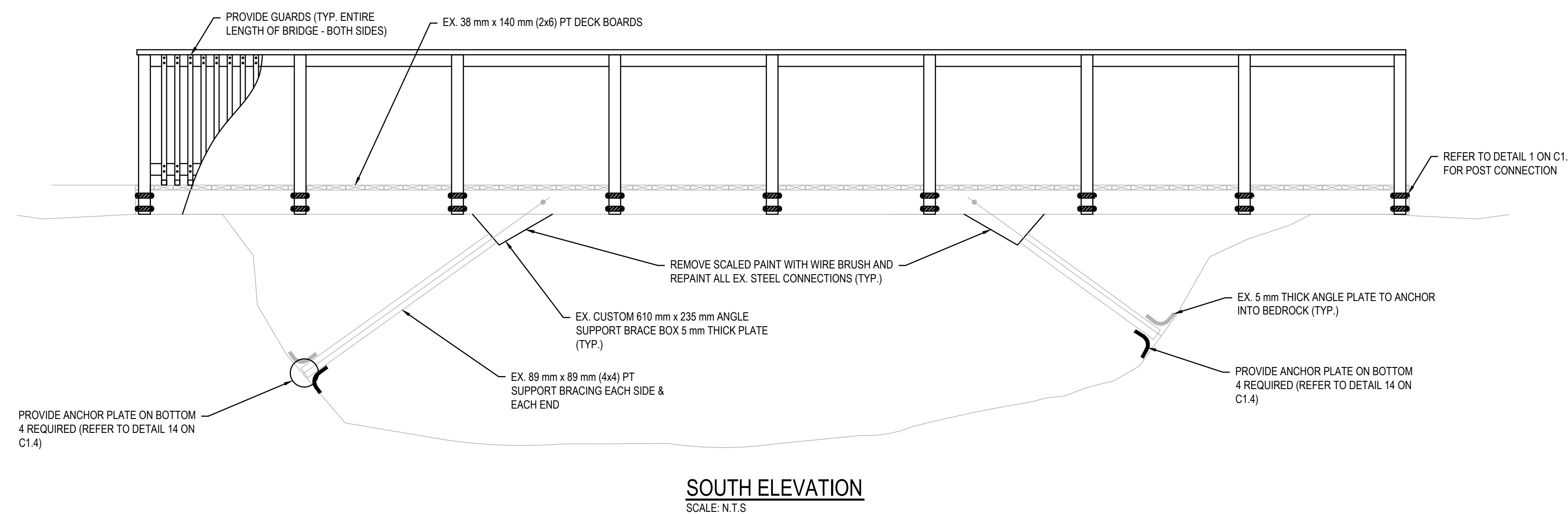
Project No. / N° du projet 1433	Scale / Echelle AS NOTED	Sheet No. / N° de la feuille C1.11
Drawing Set No. / N° de série du dessin		



VIEW OF STRUCTURE FACING NORTH

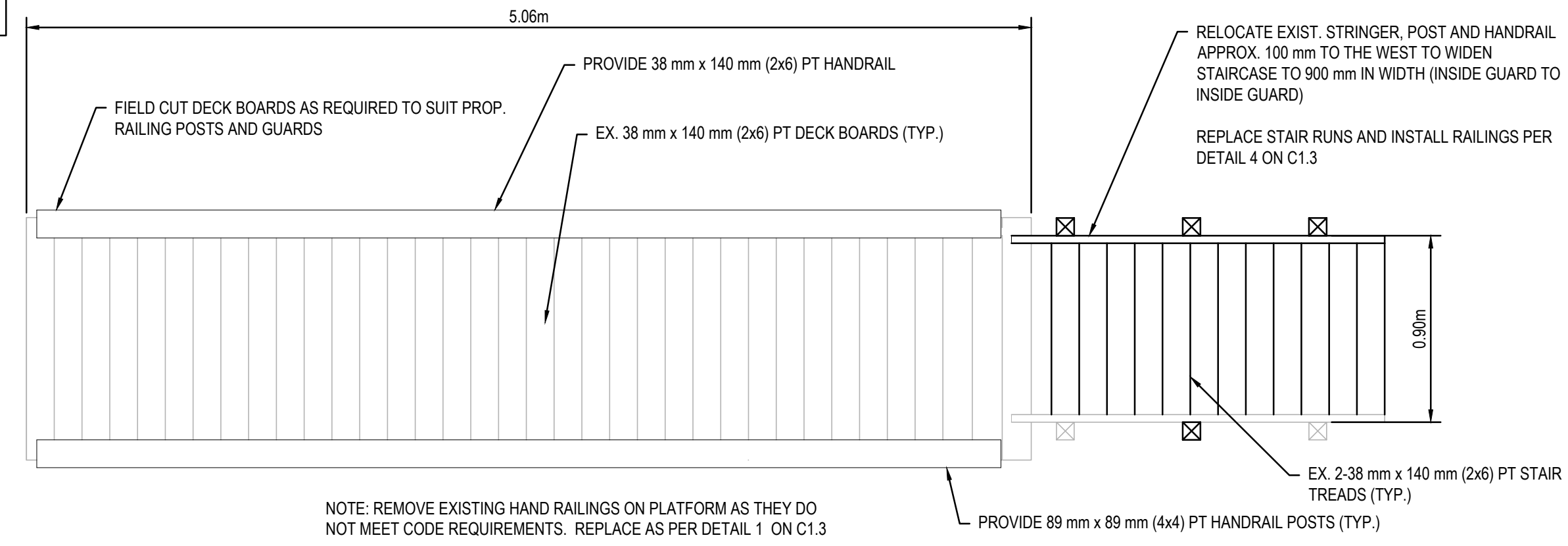


VIEW OF STRUCTURE FACING SOUTH

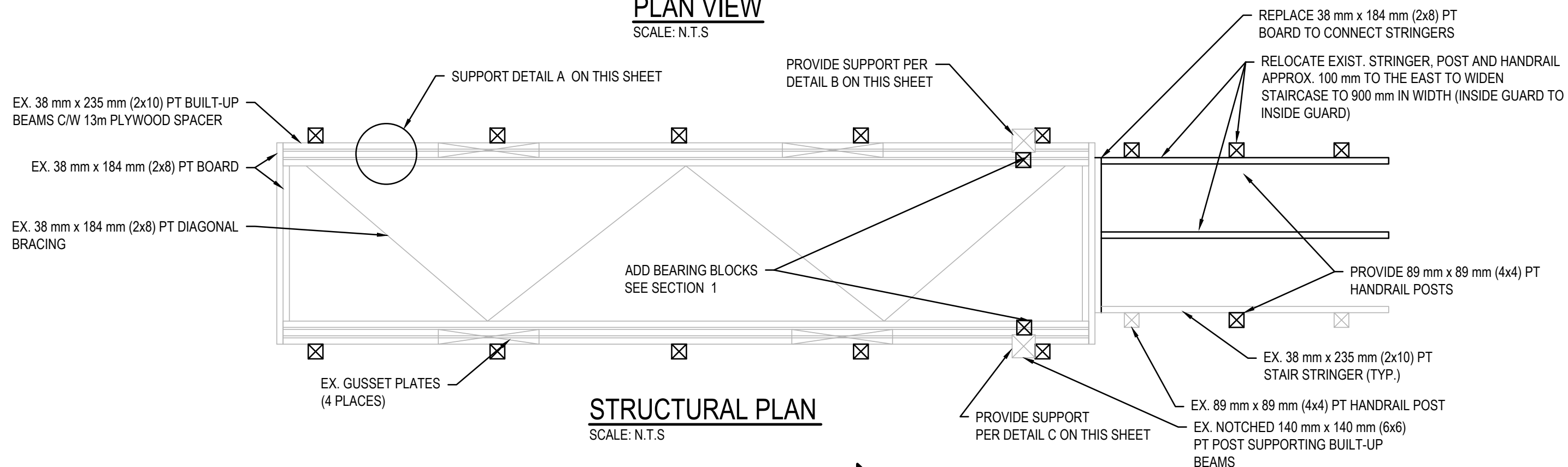


STRUCTURE LOCATION

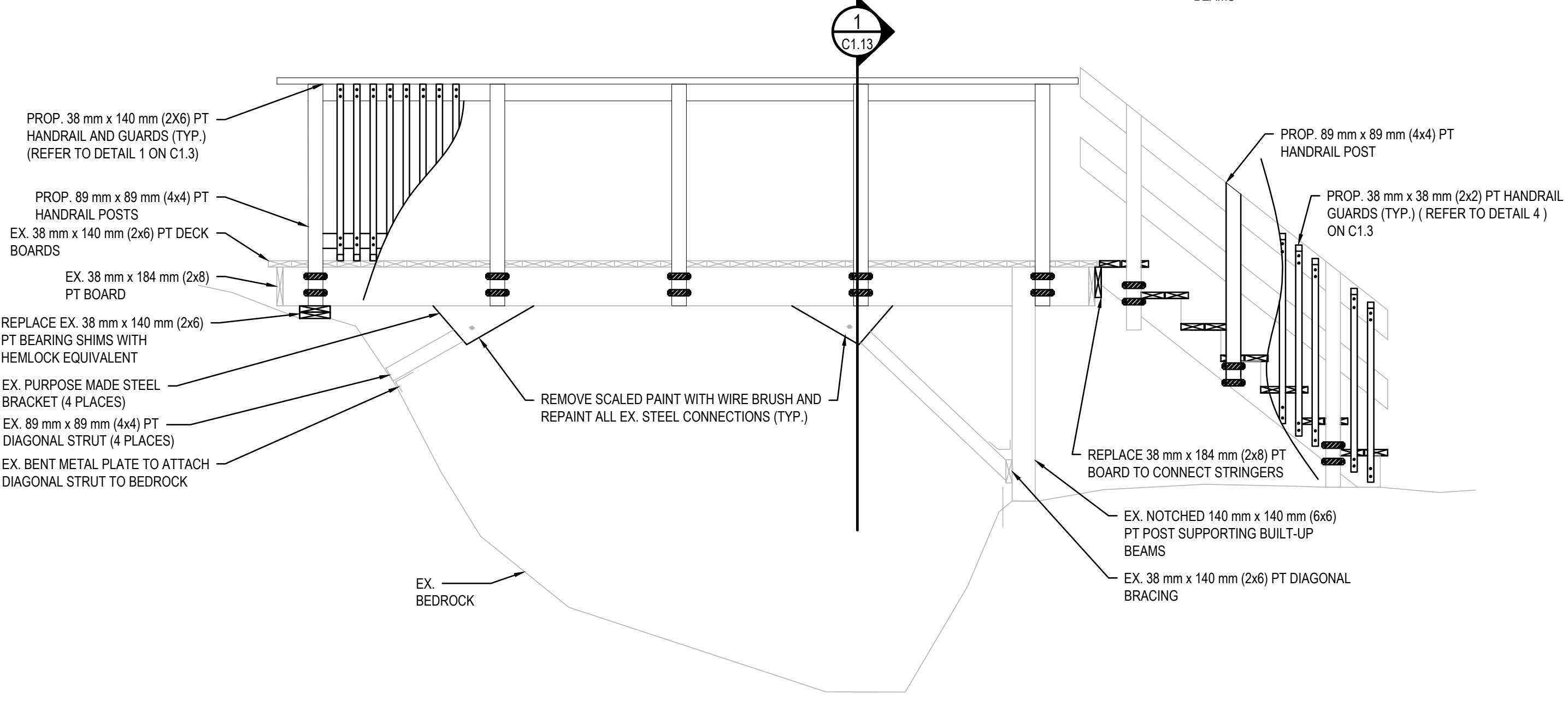
NORTHING: 5382805
EASTING: 552070



PLAN VIEW
SCALE: N.T.S.



STRUCTURAL PLAN
SCALE: N.T.S.



NOTE: REMOVE EXISTING HAND RAILINGS ON PLATFORM AS THEY DO NOT MEET CODE REQUIREMENTS. (REPLACE AS PER DETAIL 1 ON C1.3)

WEST ELEVATION
SCALE: N.T.S.



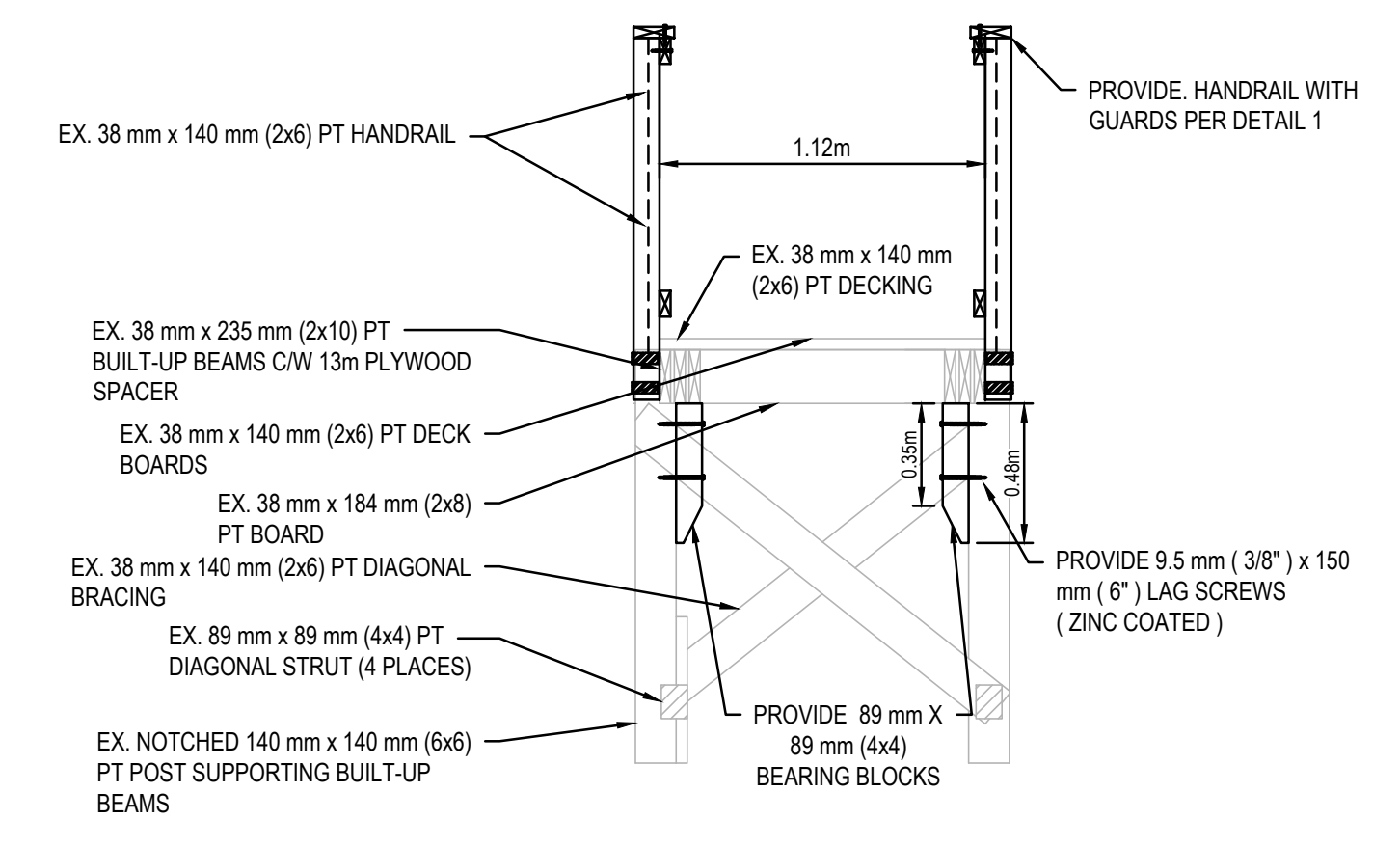
VIEW OF STRUCTURE - FACING SOUTHWEST



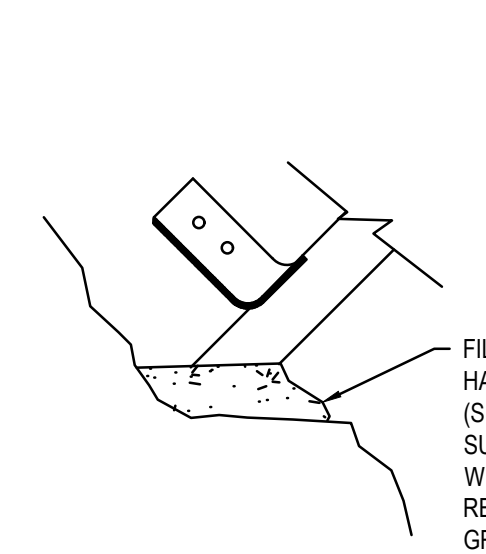
UNDERSIDE VIEW OF STRUCTURE

SCOPE OF WORK:

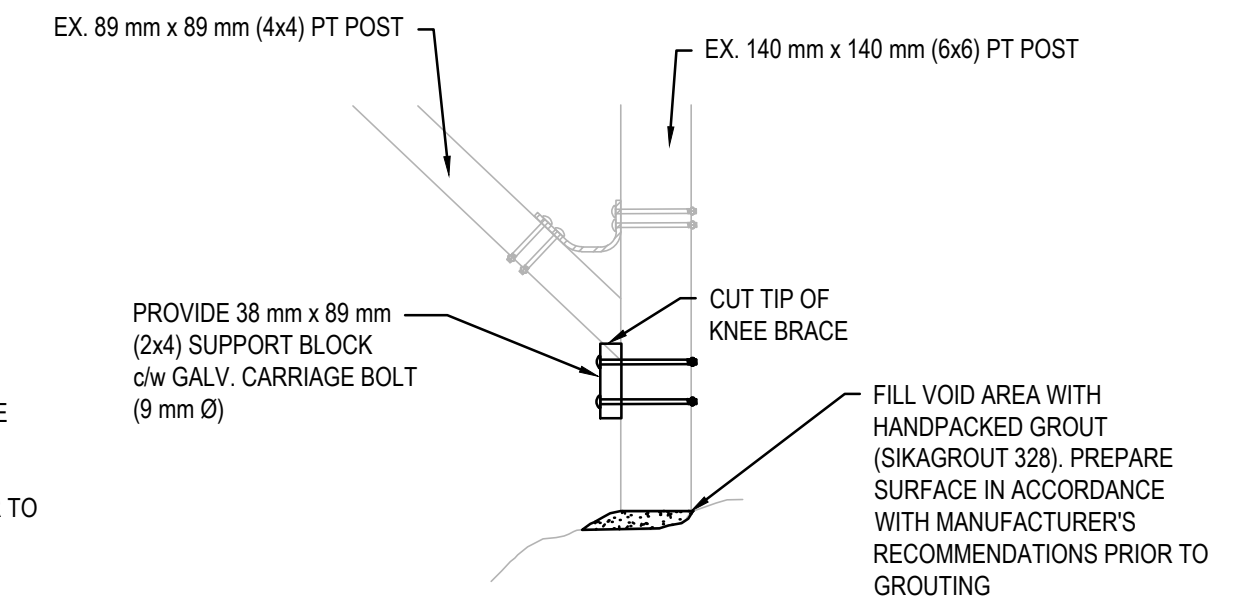
1. KNEE BRACES & POSTS - BOTTOM ENDS OF POSTS AND LEGS TO BE GROUTED IN FULL CONTACT WITH BEDROCK AS SHOWN;
2. INSTALL NEW HAND RAILINGS AND GUARDS AS INDICATED;
3. SOUTH ABUTMENT POSTS - ADD BEARING BLOCKS TO SUPPORT BEAMS AS SHOWN;
4. RE-PAINT GUSSETS AND KNEE BRACES; AND,
5. INSTALL STRENGTHENING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



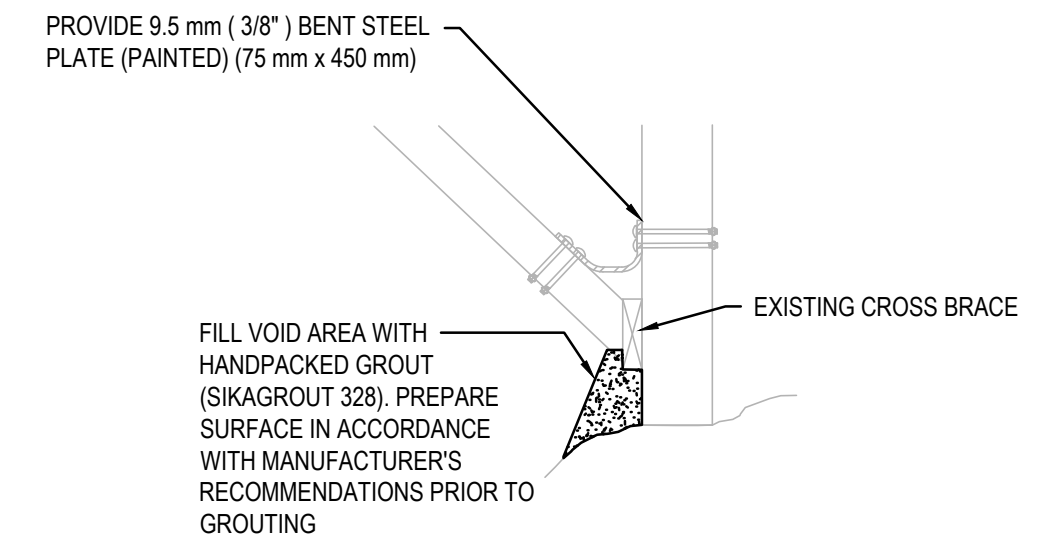
SECTION 1
SCALE: N.T.S.



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



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



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

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
E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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
 GALT STEELES (NORTH) CANADA, PISA 3C8
 TEL.: 705-942-3770 / FAX: 705-942-3532 / WWW.WSPGROUP.COM
 WSP-SP-2011-05-0001-001 (WSP# 151-02103-07)
 Eng. Stamp / Sceau de l'ingénieur: D. M. SPACEK
 PROFESSIONAL ENGINEER
 ONTARIO
 1987

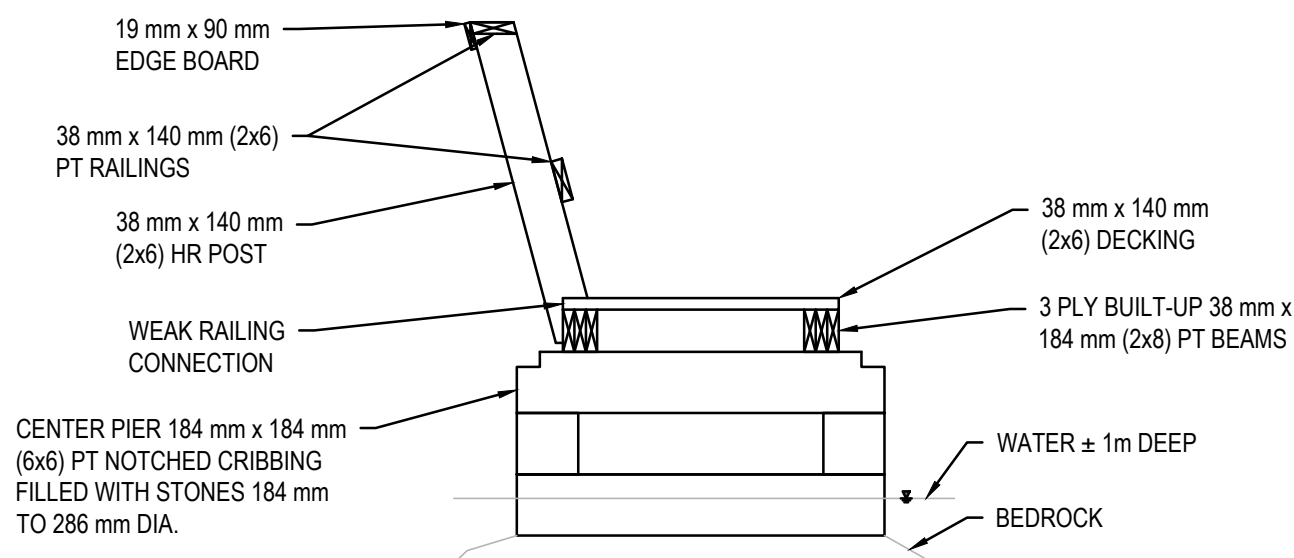
Project title / Titre du projet: **1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT**

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

Designed by / Concept par: M.PILON / A.MALLETTE	Date: JUN 26, 2017
Drawn by / Dessiné par: R.COPPENS	Date: JUN 26, 2017
Checked by / Vérifié par: D.SPACEK	Date: JUN 26, 2017
Approved by / Approuvé par: D.SPACEK	Date: JUN 26, 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

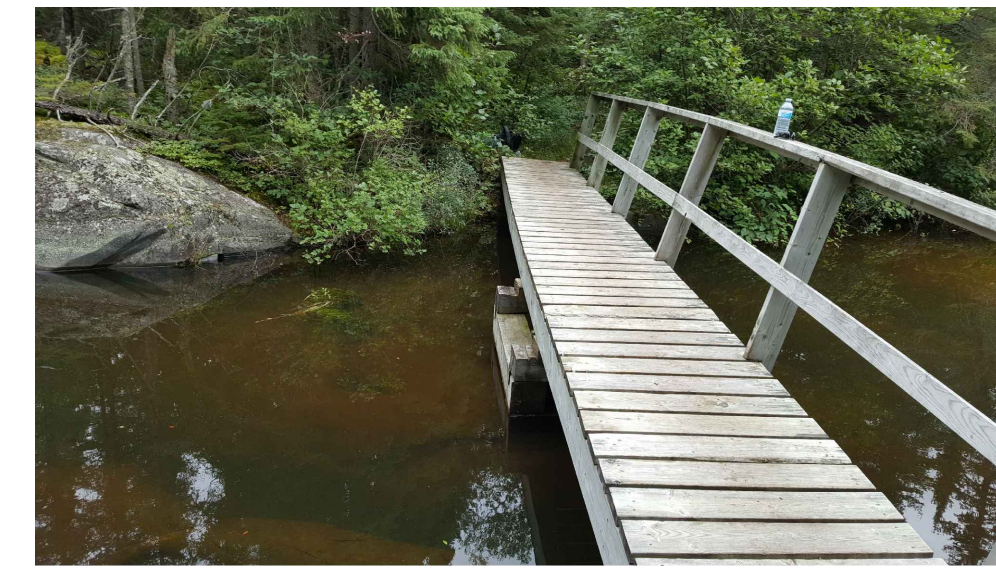
NORTHING: 5382400
EASTING: 553646



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.

KEY PLAN:



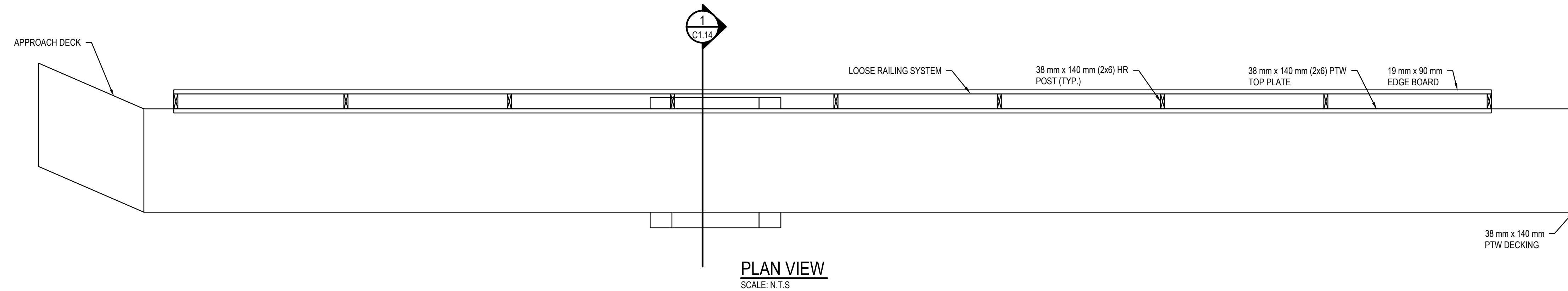
Legends:

NEW CONSTRUCTION

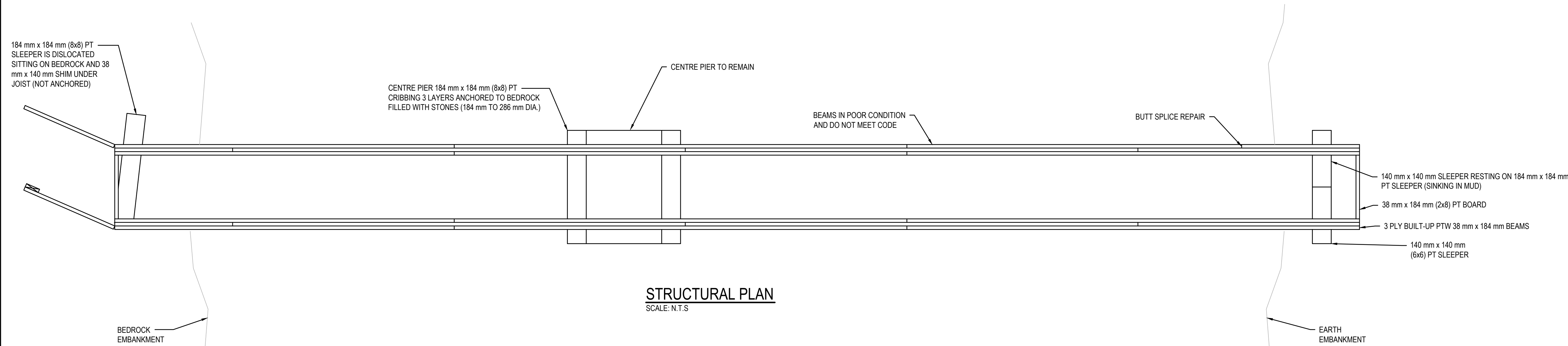
- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

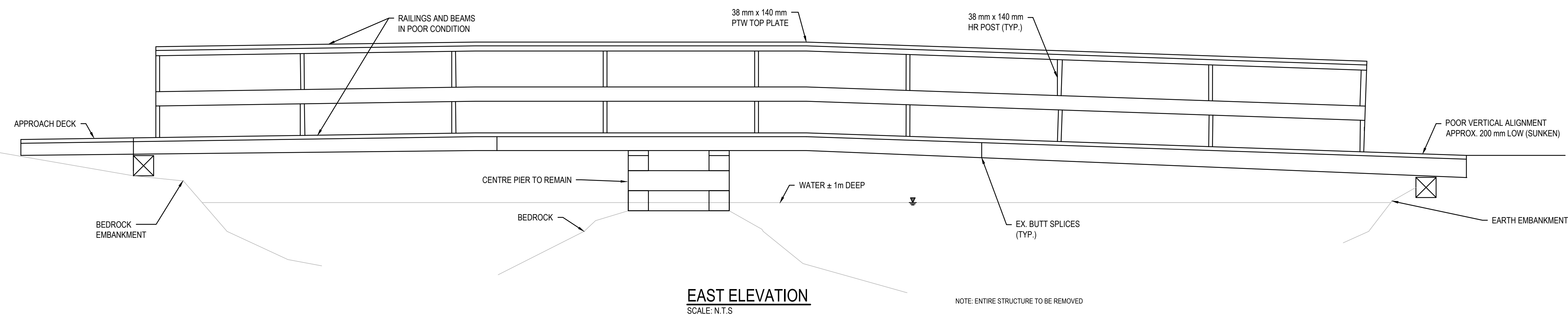
- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN



PLAN VIEW
SCALE: N.T.S.



STRUCTURAL PLAN
SCALE: N.T.S.



EAST ELEVATION
SCALE: N.T.S.

NOTE: ENTIRE STRUCTURE TO BE REMOVED

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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, SALT STEPHEN, ONTARIO, CANADA, P6A 3C8
 TEL.: 705-842-3070, FAX: 705-842-3532, WWW.WSPGROUP.COM
 WSP-SP-2011-15-0001-001 (WSP# 151-02105-07)

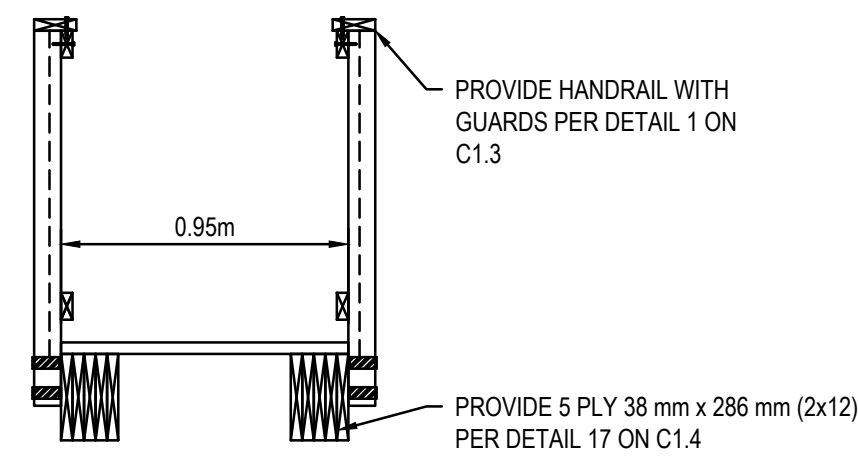
Project title / Titre du projet:
1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT

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

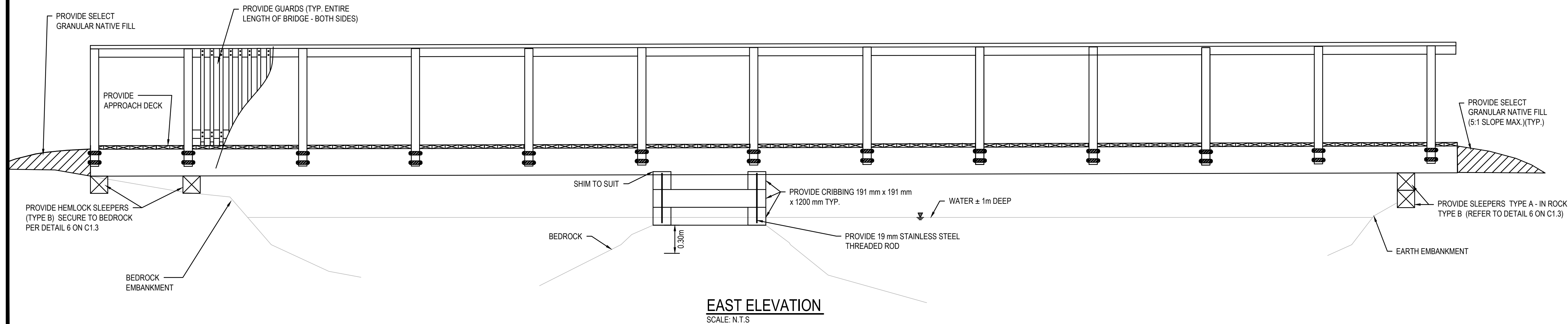
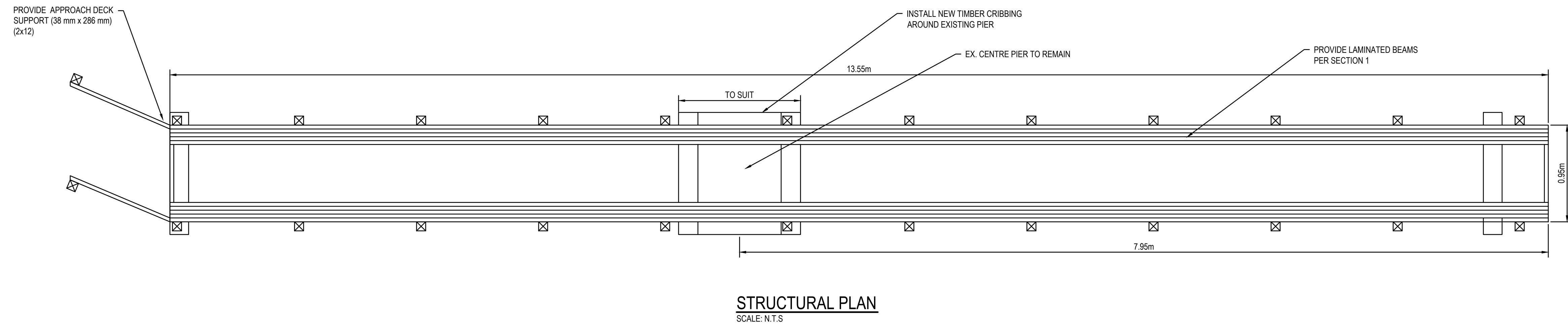
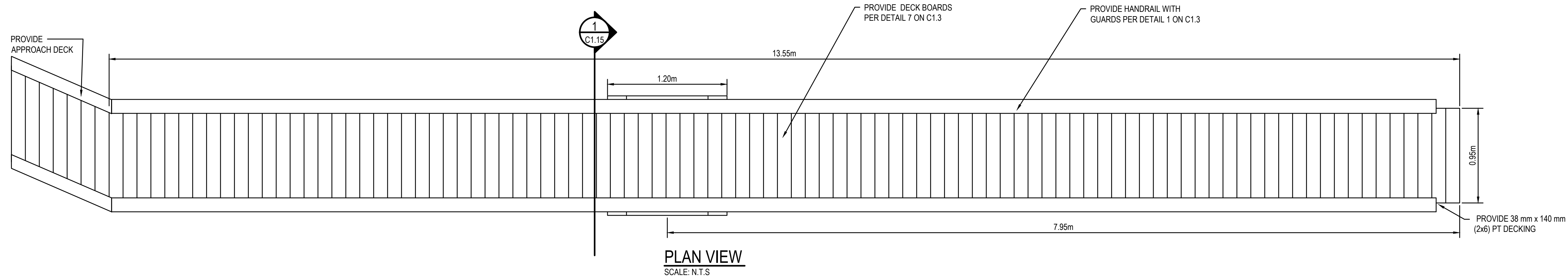
Designed by / Concept par: M.PILON / A.MALLETTE	Date: JUN 26, 2017
Drawn by / Dessiné par: T.PILON / M.PILON / R.COPPENS	Date: JUN 26, 2017
Checked by / Vérifié par: D.SPACEK	Date: JUN 26, 2017
Approved by / Approuvé par: D.SPACEK	Date: JUN 26, 2017
Project No. / N° du projet: 1433	Scale / Echelle: AS 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

E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIABLES	D.SPACEK
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

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
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

186 EAST STREET
SUITE 101, WILSON AVENUE, WILSON, ONTARIO, CANADA, M9A 3C8
TEL: 705-942-3070 / FAX: 705-942-3532 / WWW.WSPGROUP.COM
WSP-SP-2011-05-0001-001 (WSP# 151-60105-01)

Eng. Stamp / Sceau de l'ingénieur

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	JUN 26, 2017
Drawn by / Dessiné par	T.PILON / M.PILON / R.COPPENS	Date	JUN 26, 2017
Checked by / Vérifié par	D.SPACEK	Date	JUN 26, 2017
Approved by / Approuvé par	D.SPACEK	Date	JUN 26, 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: 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.

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
E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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	Revision / Révision
A	B

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

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

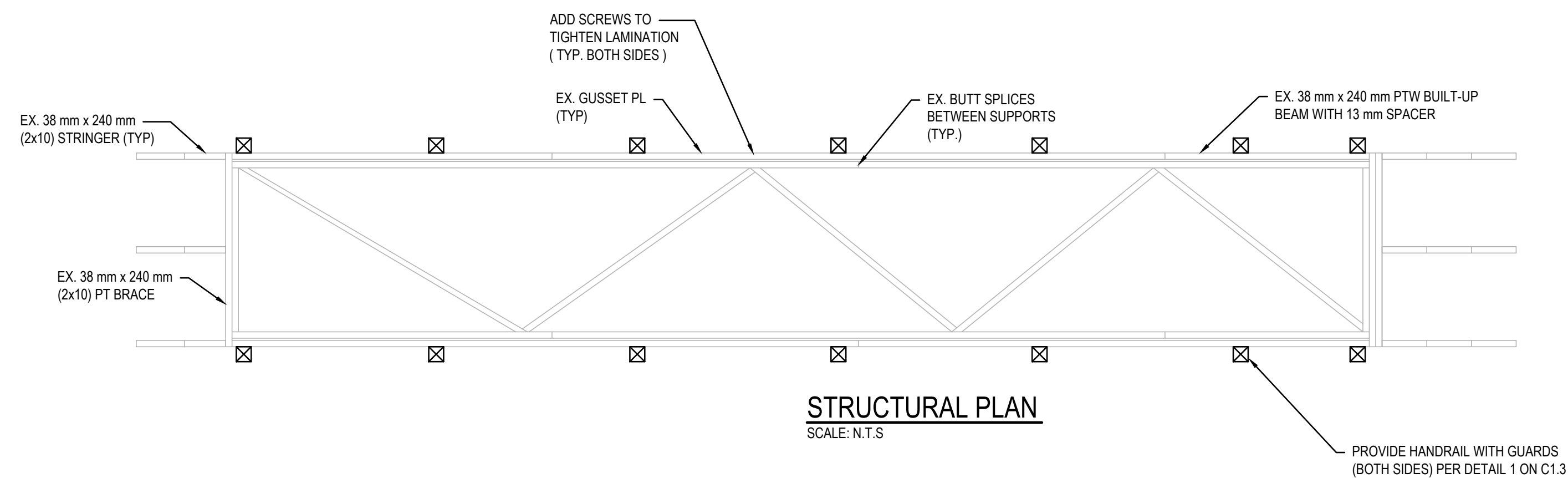
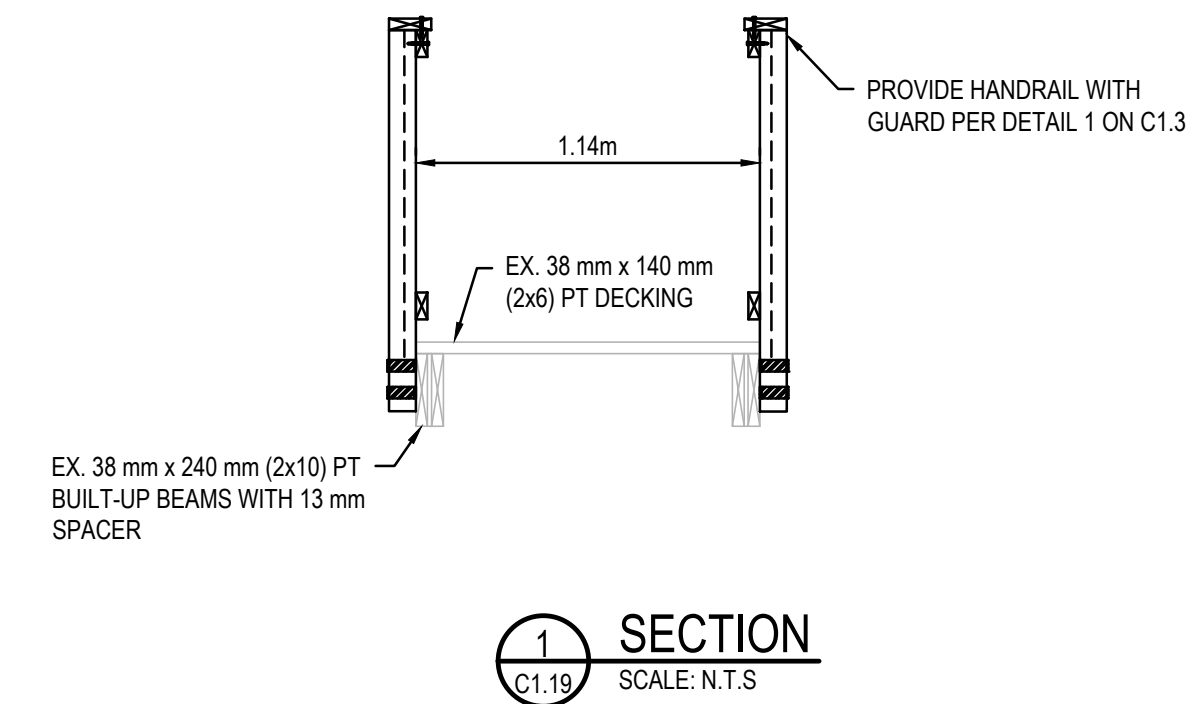
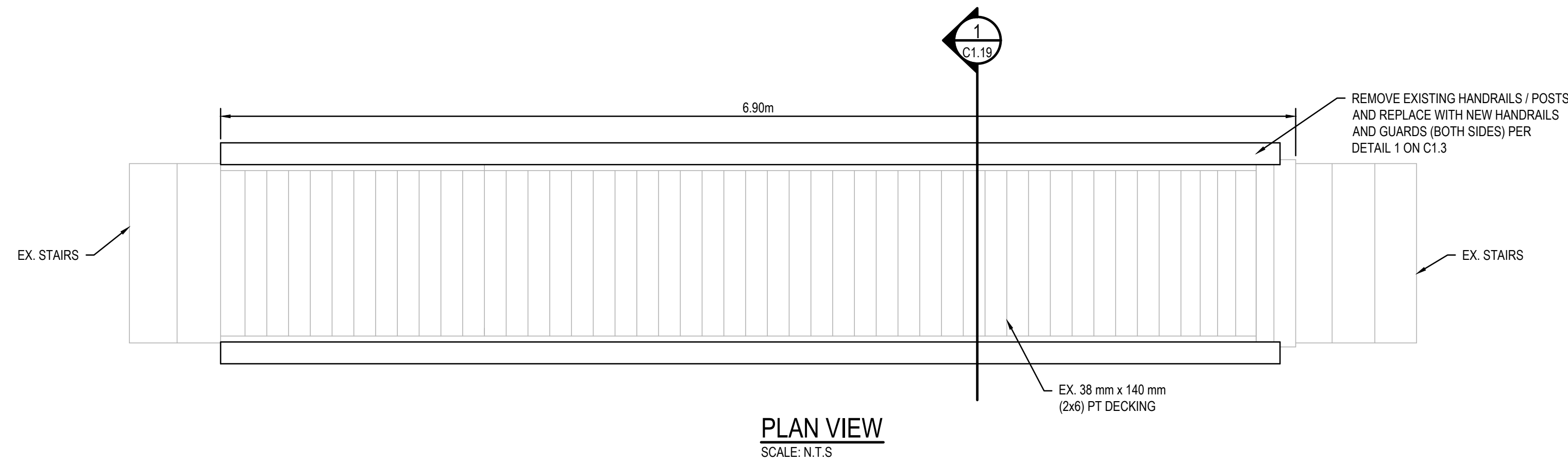
Eng. Stamp / Sceau de l'ingénieur: **D. M. SPACEK**

186 EAST STREET
SUAULT STE. MARIE, 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)

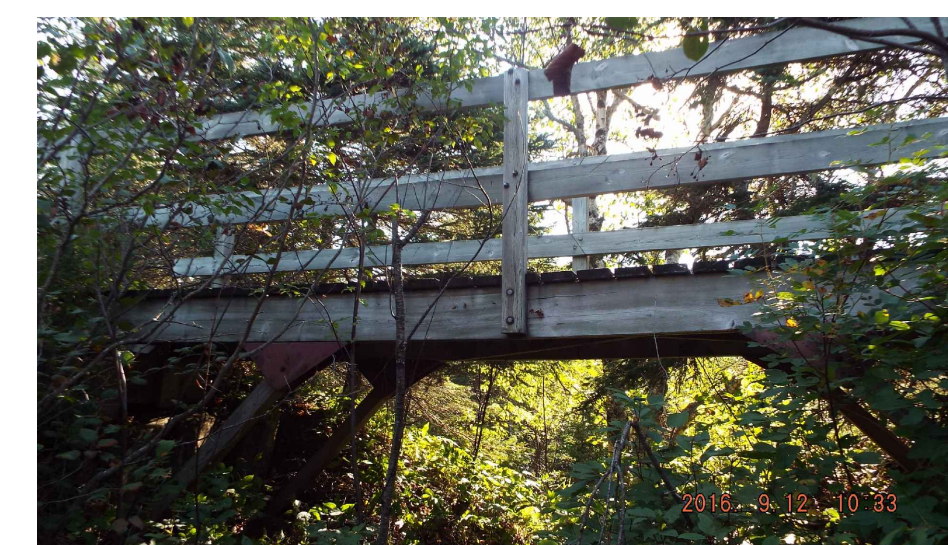
Project title / Titre du projet:
1433 PUK NP
TRAIL BRIDGE STRUCTURE
REHABILITATION PROJECT

Drawing title / Titre du dessin:
STRUCTURE 17-16
(PROVISIONAL STRUCTURE)

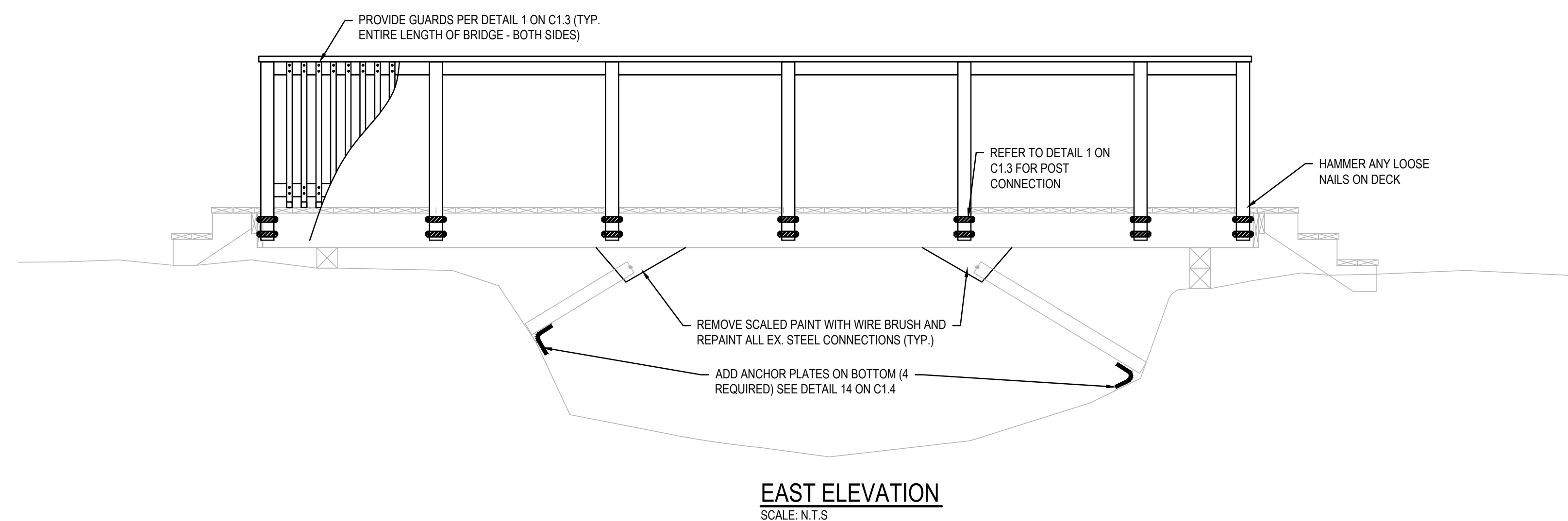
Designed by / Concept par: M.PILON / A.MALLETTE	Date: JUN 26, 2017
Drawn by / Dessiné par: T.PILON / M.PILON / R.COPPENS	Date: JUN 26, 2017
Checked by / Vérifié par: D.SPACEK	Date: JUN 26, 2017
Approved by / Approuvé par: D.SPACEK	Date: JUN 26, 2017
Project No. / N° du projet: 1433	Scale / Echelle: AS NOTED
Drawing Set No. / N° de série du dessin: -	Sheet No. / N° de la feuille: C1.19



VIEW OF STRUCTURE FACING SOUTH

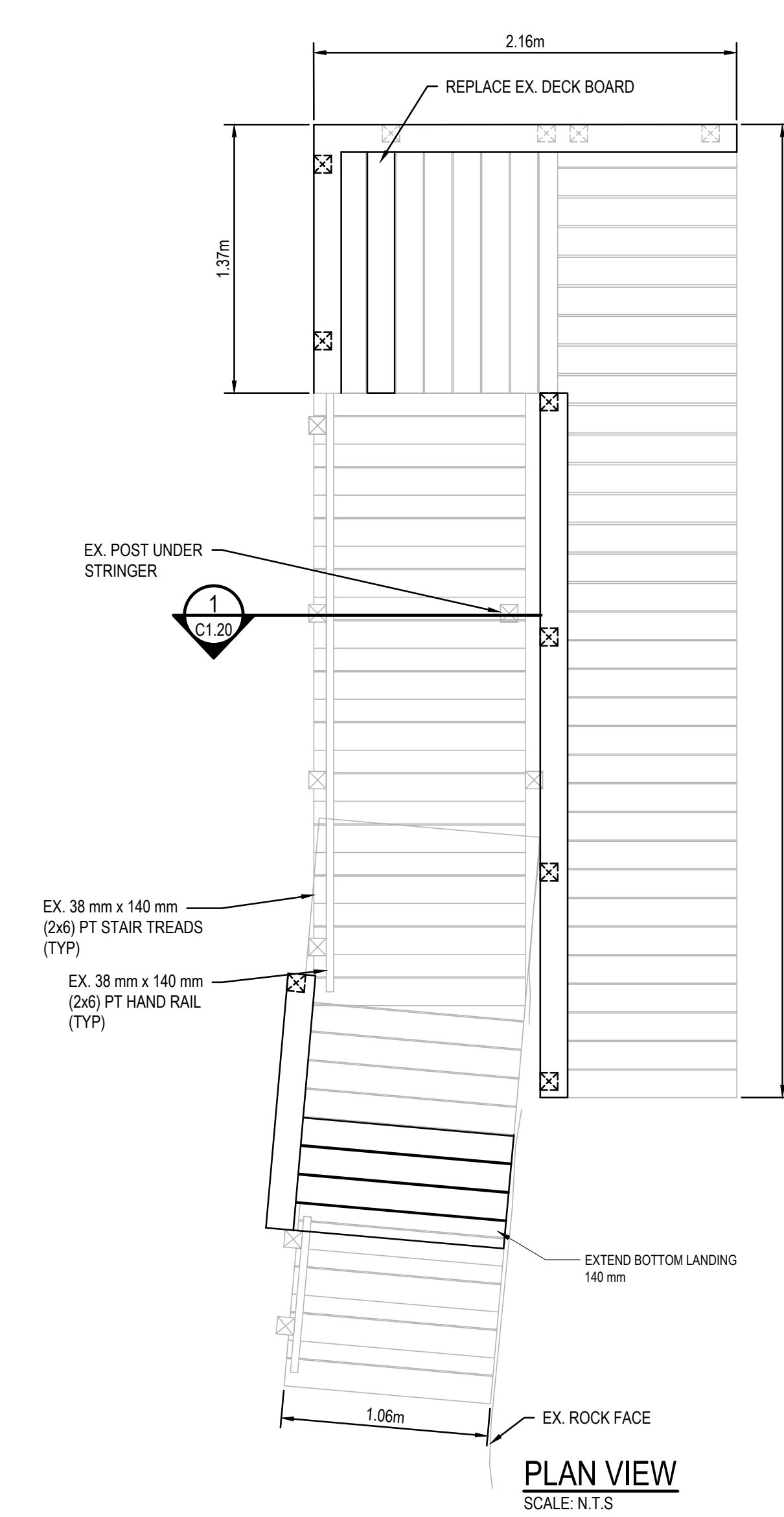
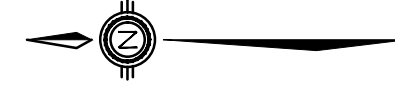


VIEW OF STRUCTURE FACING WEST

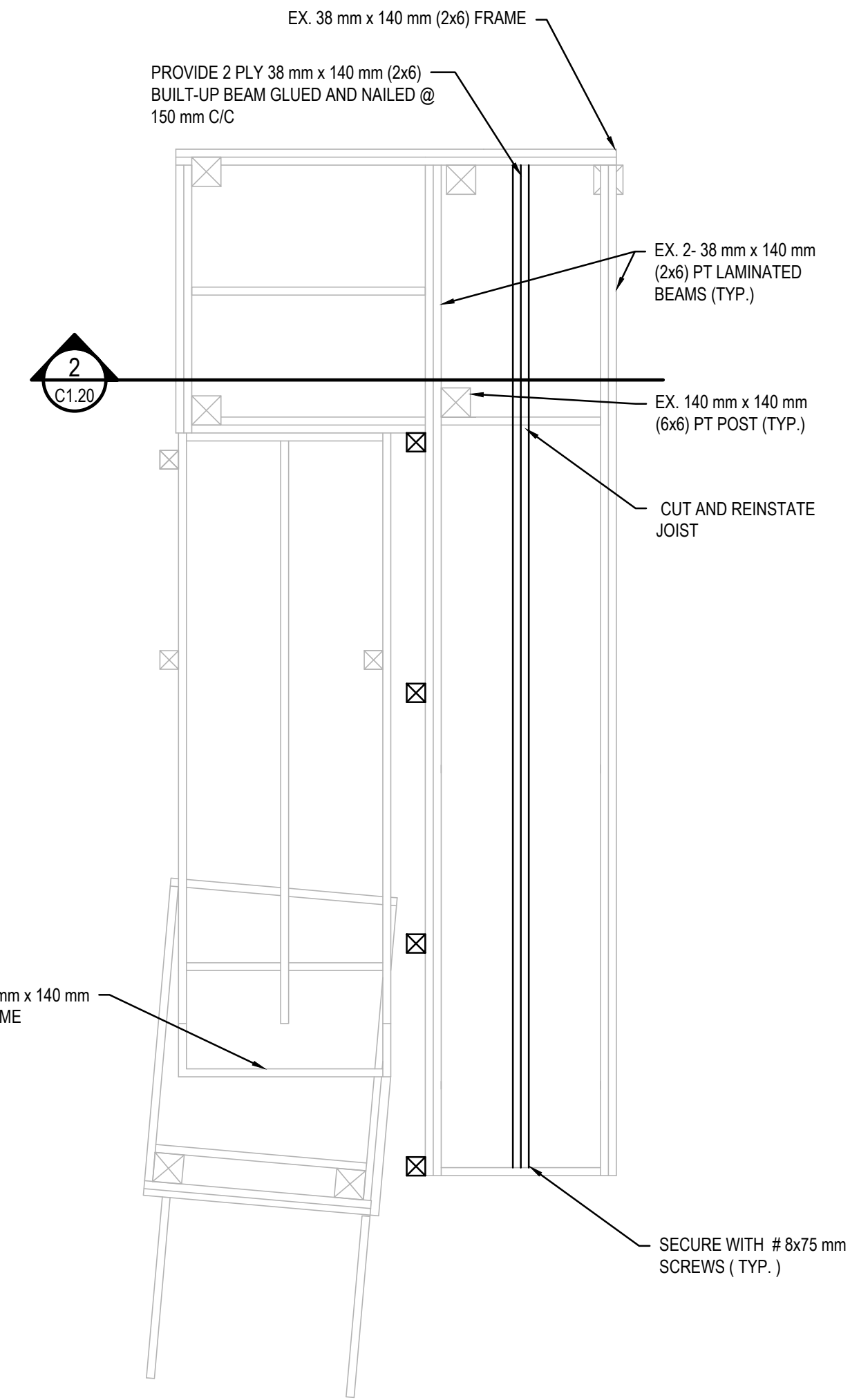


STRUCTURE LOCATION

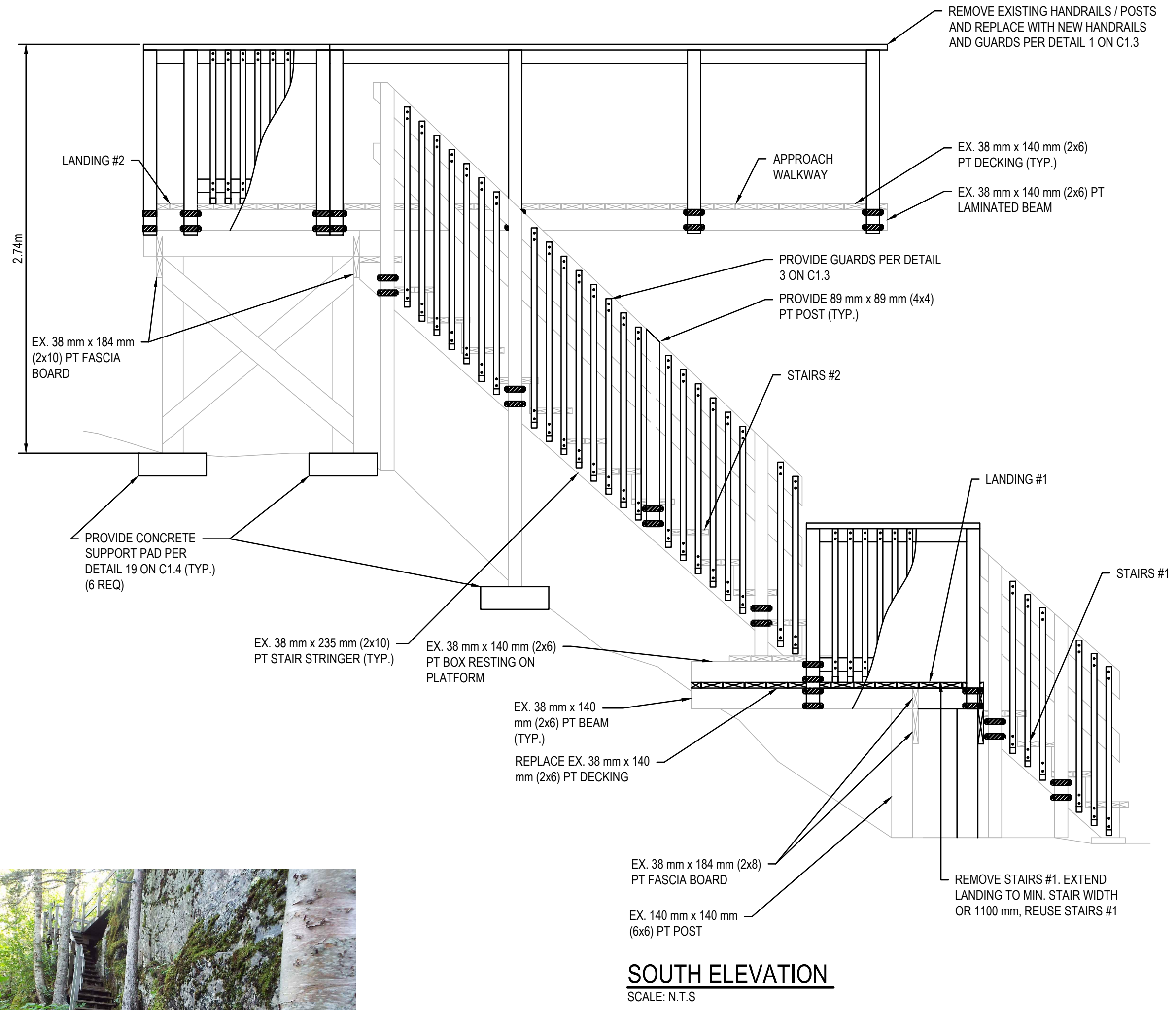
NORTHING: 5382565
EASTING: 552359



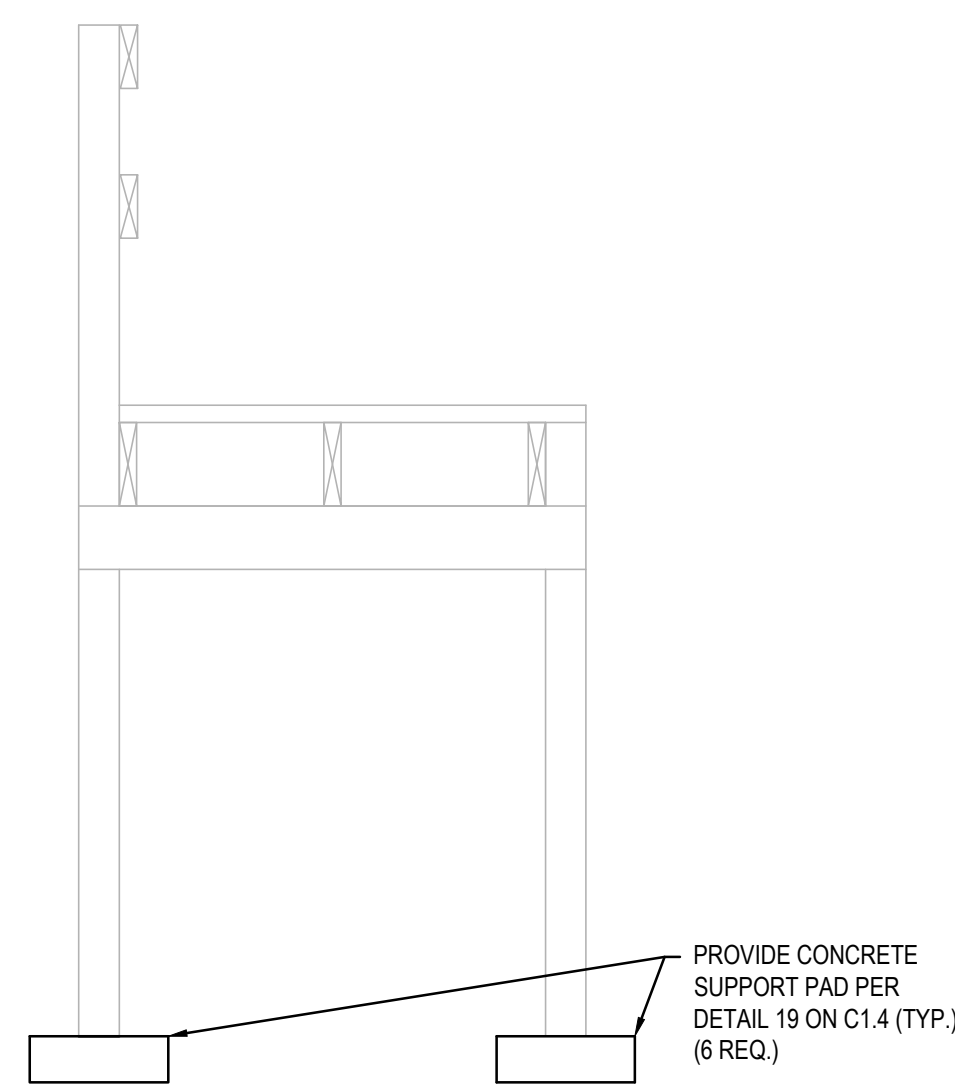
PLAN VIEW
SCALE: N.T.S.



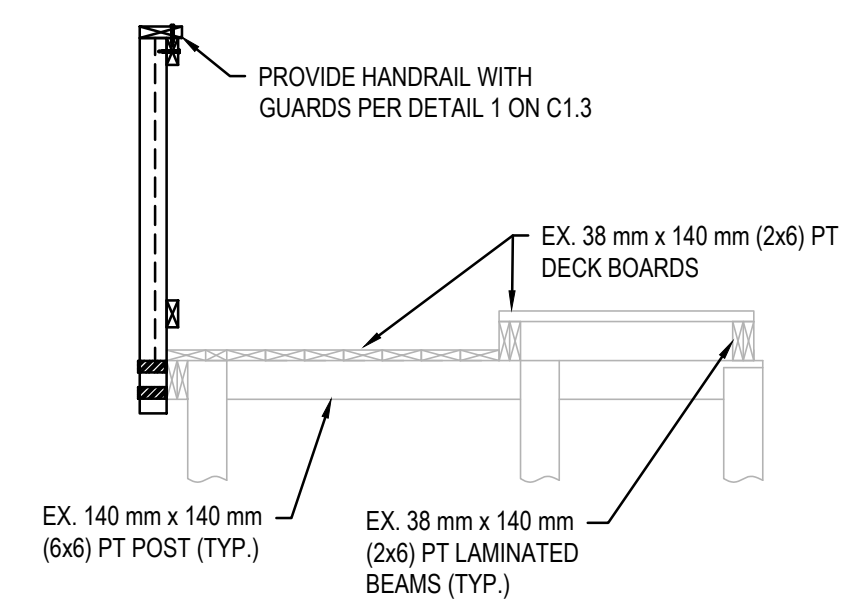
STRUCTURAL PLAN
SCALE: N.T.S.



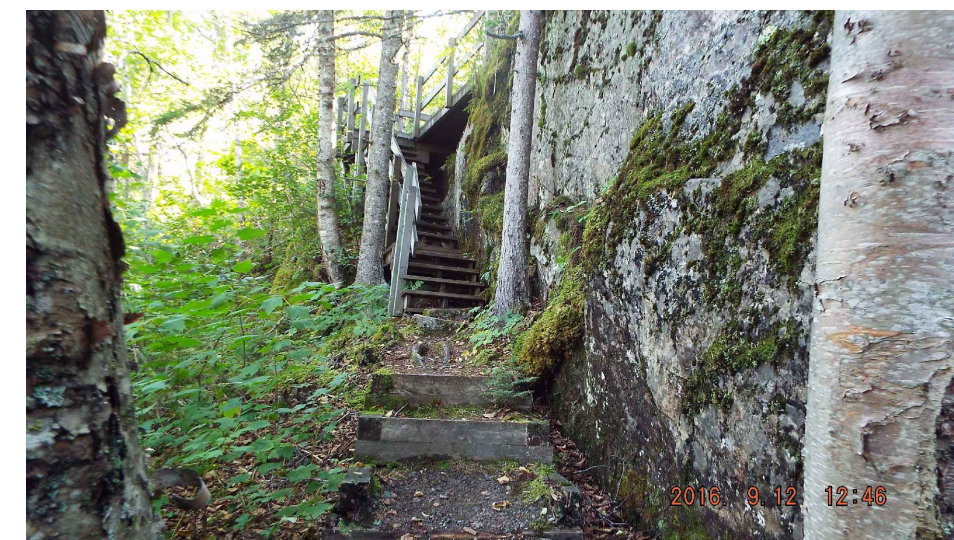
SOUTH ELEVATION
SCALE: N.T.S.



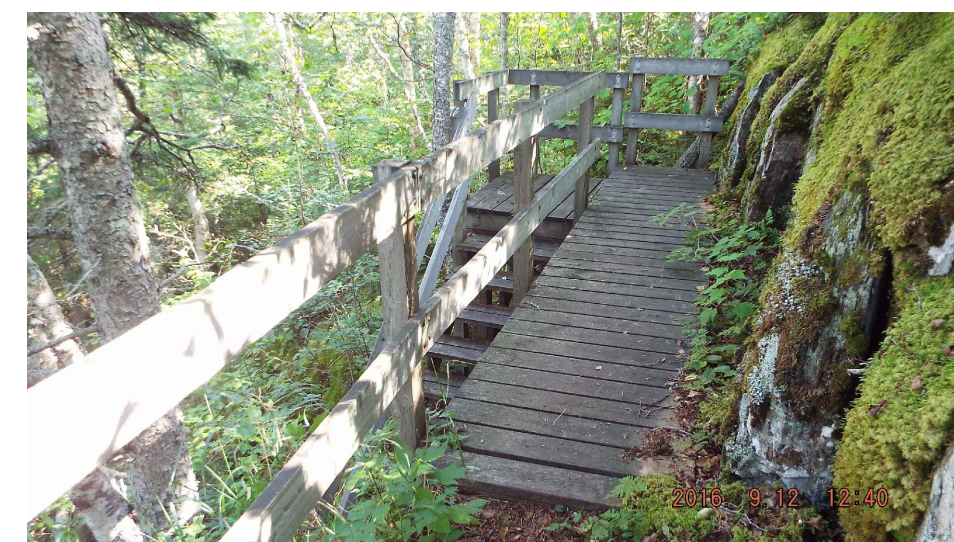
SECTION 1
SCALE: N.T.S.



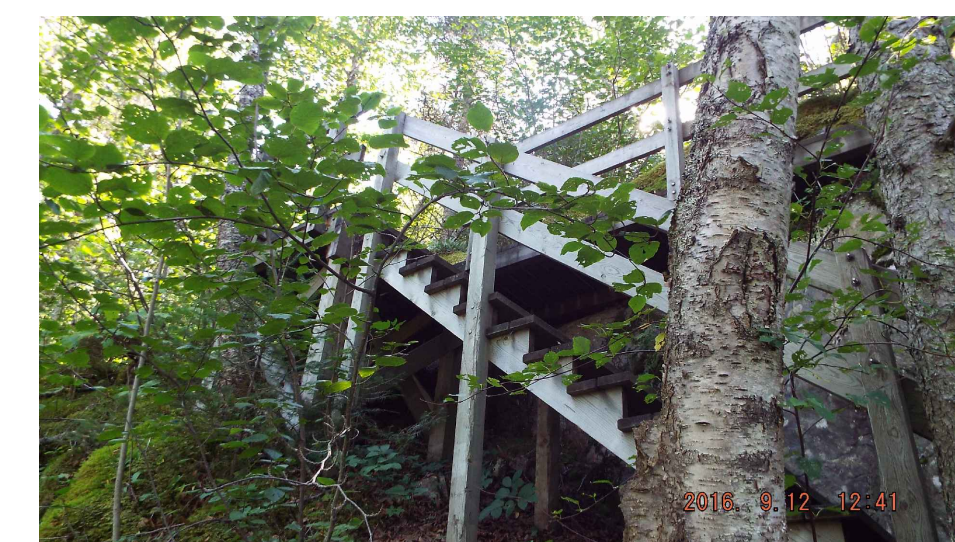
SECTION 2
SCALE: N.T.S.



VIEW OF STRUCTURE FACING EAST



VIEW OF STRUCTURE FACING EAST



VIEW OF STRUCTURE FACING SOUTHEAST

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.

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
E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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**

180 EAST STREET
SUITE 101, MARKHAM, ONTARIO, CANADA, L3R 0V3
TEL: 705-942-3070 / FAX: 705-942-3532 / WWW.WSPGROUP.COM
WSP-SP-2011-15-0001-001 (WSP# 151-02-103-07)

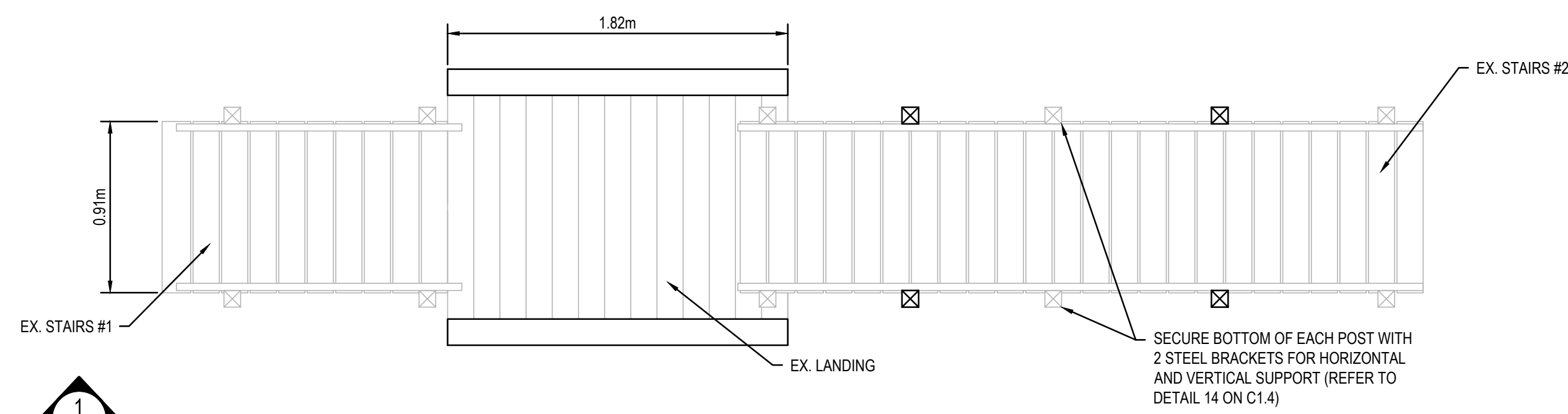
Project title / Titre du projet:
1433 PUK NP
TRAIL BRIDGE STRUCTURE
REHABILITATION PROJECT

Drawing title / Titre du dessin:
STRUCTURE 17-17

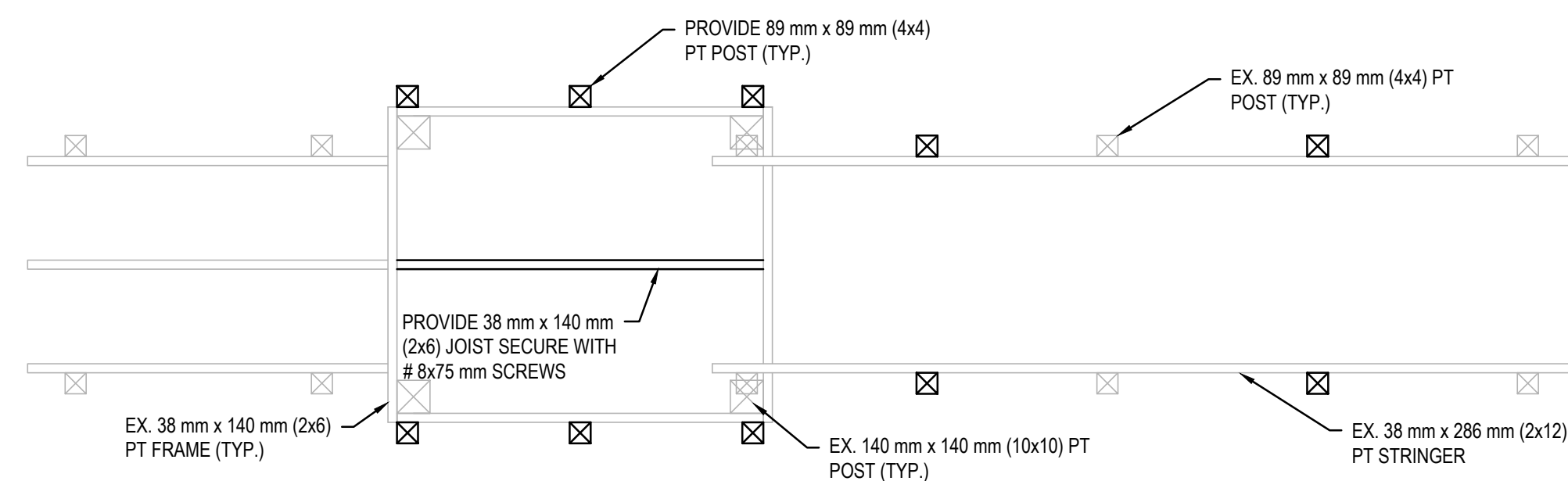
Designed by / Concept par: M.PILON / A.MALLETTE	Date: JUN 26, 2017
Drawn by / Dessiné par: T.PILON / M.PILON / R.COPPENS	Date: JUN 26, 2017
Checked by / Vérifié par: D.SPACEK	Date: JUN 26, 2017
Approved by / Approuvé par: D.SPACEK	Date: JUN 26, 2017
Project No. / N° du projet: 1433	Scale / Echelle: AS NOTED
Drawing Set No. / N° de série du dessin: -	Sheet No. / N° de la feuille: C1.20

STRUCTURE LOCATION

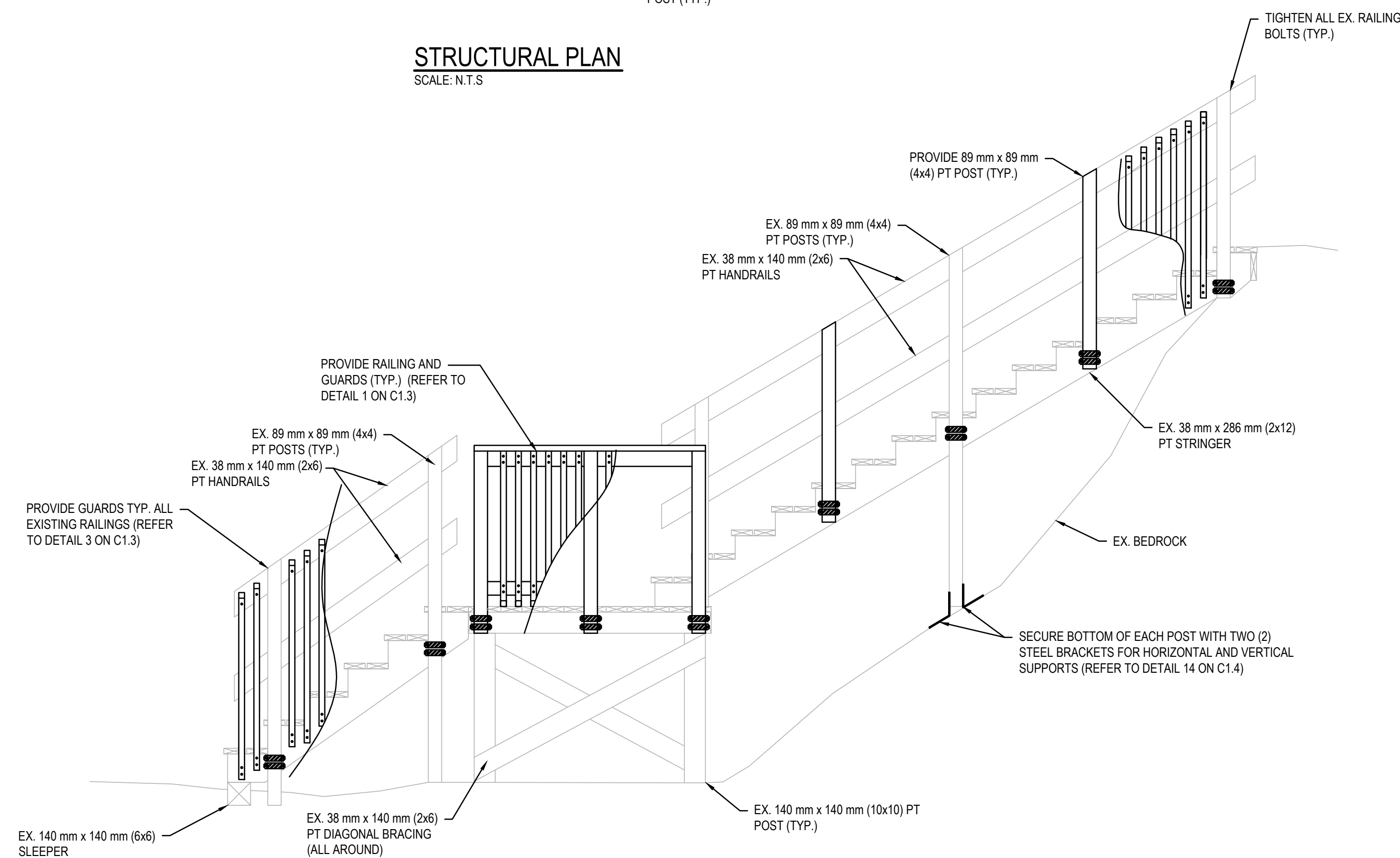
NORTHING: 5382749
EASTING: 552232



PLAN VIEW
SCALE: N.T.S.



STRUCTURAL PLAN
SCALE: N.T.S.



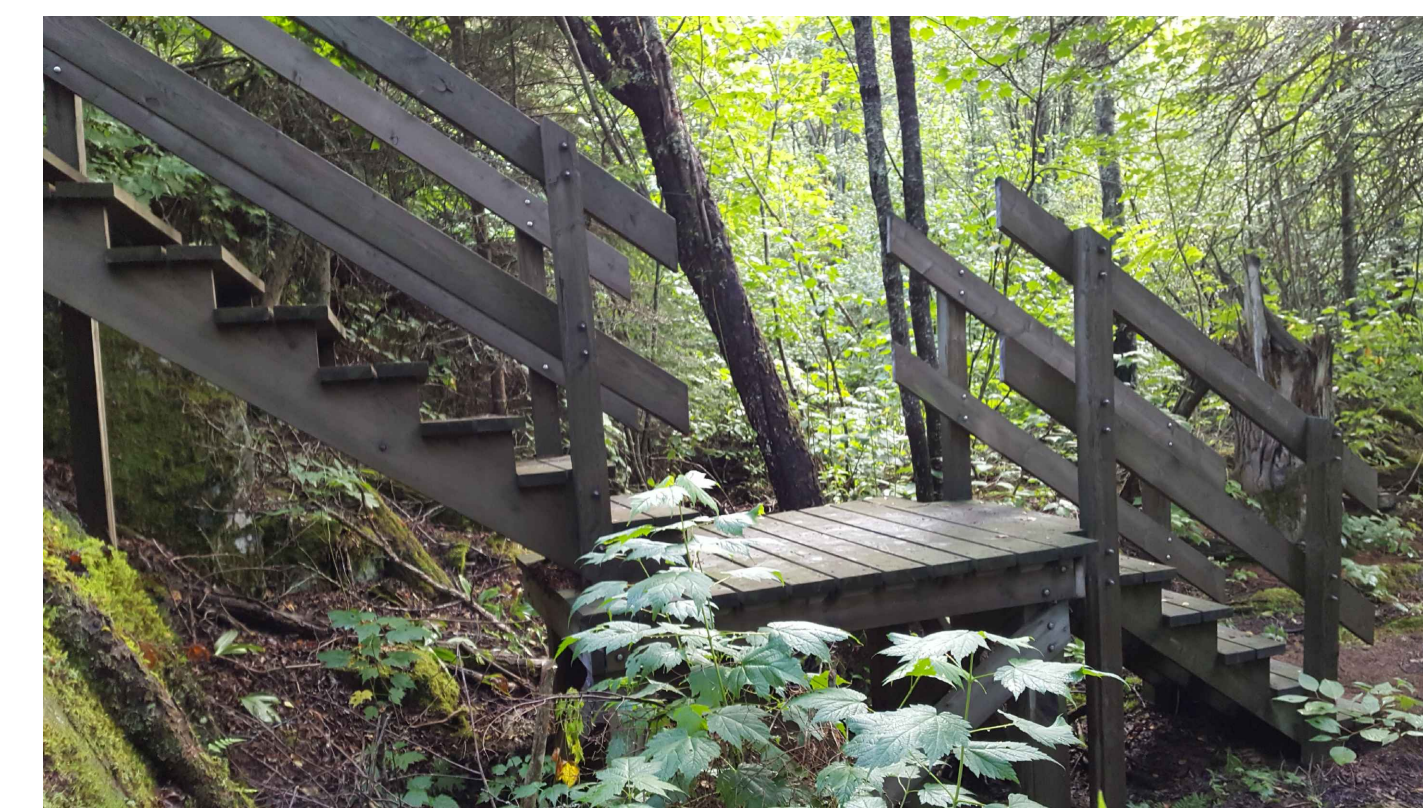
SECTION
SCALE: N.T.S.

SCOPE OF WORK:

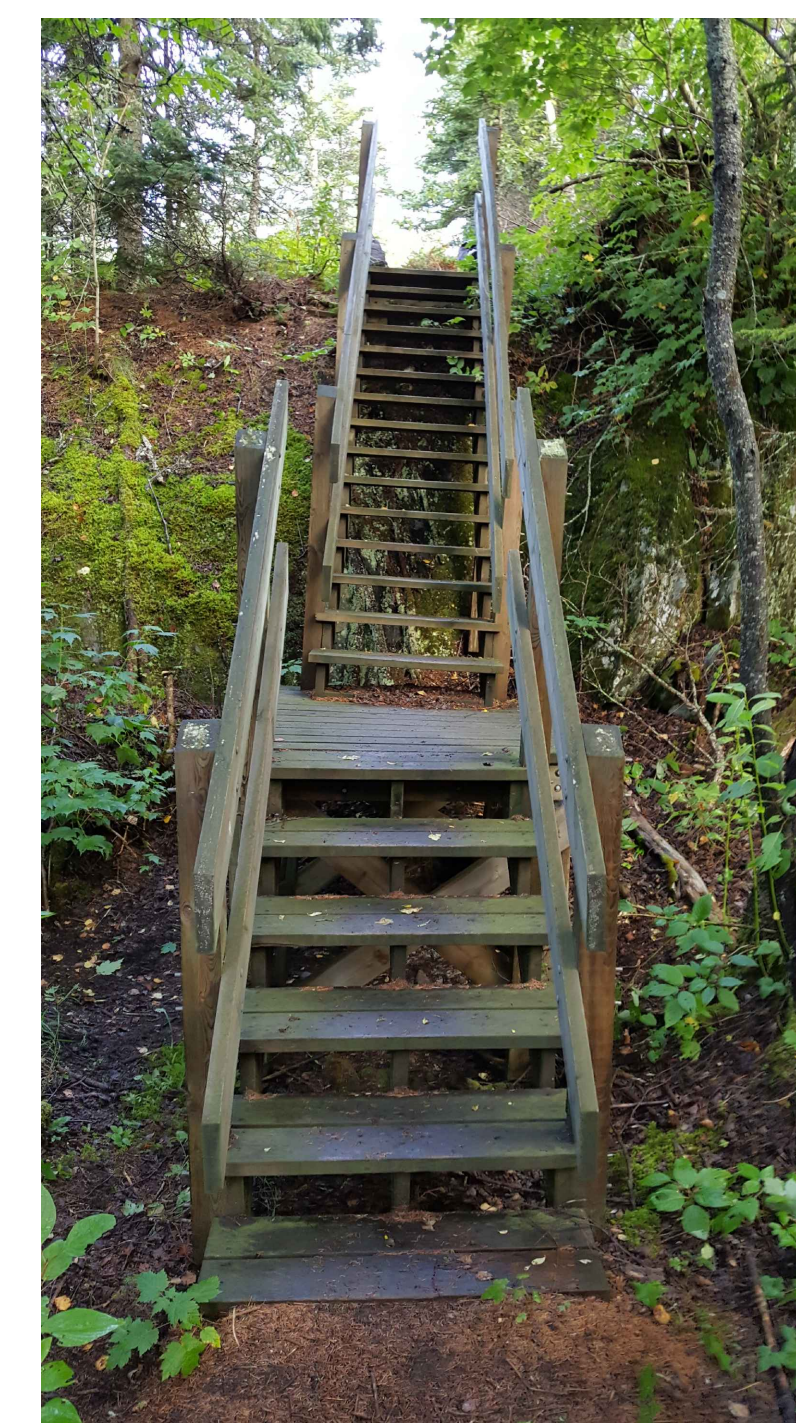
1. SECURE POSTS TO BEDROCK USING STEEL BRACKETS AS SHOWN;
2. SECURE DECK AND TREAD BOARDS WITH SCREWS WHERE NAILS ARE POPPING OUT;
3. LANDING - ADD CENTRE JOIST TO SUPPORT DECK BOARDS;
4. TIGHTEN ALL BOLTS TO RAILINGS;
5. ADD GUARDS TO EX. STAIR RAILINGS;
6. ADD ADDITIONAL HANDRAIL POSTS AS INDICATED;
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
E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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**
 186 EAST STREET, SUITE 101, MISSISSAUGA, ONTARIO, CANADA, L4X 1L2
 TEL: 705-842-3070 / FAX: 705-842-3532 / WWW.WSPGROUP.COM
 WSP-SP-2011-15-0001-001 (WSP# 151-02105-07)

Eng. Stamp / Sceau de l'ingénieur: **D. M. SPACER**
 PROFESSIONAL ENGINEER / INGÉNIEUR PROFESSIONNEL
 ONTARIO / ONTARIO

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: JUN 26, 2017
Drawn by / Dessinée par: M.PILON / T.PILON / R.COPPENS	Date: JUN 26, 2017
Checked by / Vérifié par: D.SPACEK	Date: JUN 26, 2017
Approved by / Approuvé par: D.SPACEK	Date: JUN 26, 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: C1.21

STRUCTURE LOCATION

NORTHING: 5382820
EASTING: 552210

SCOPE OF WORK:

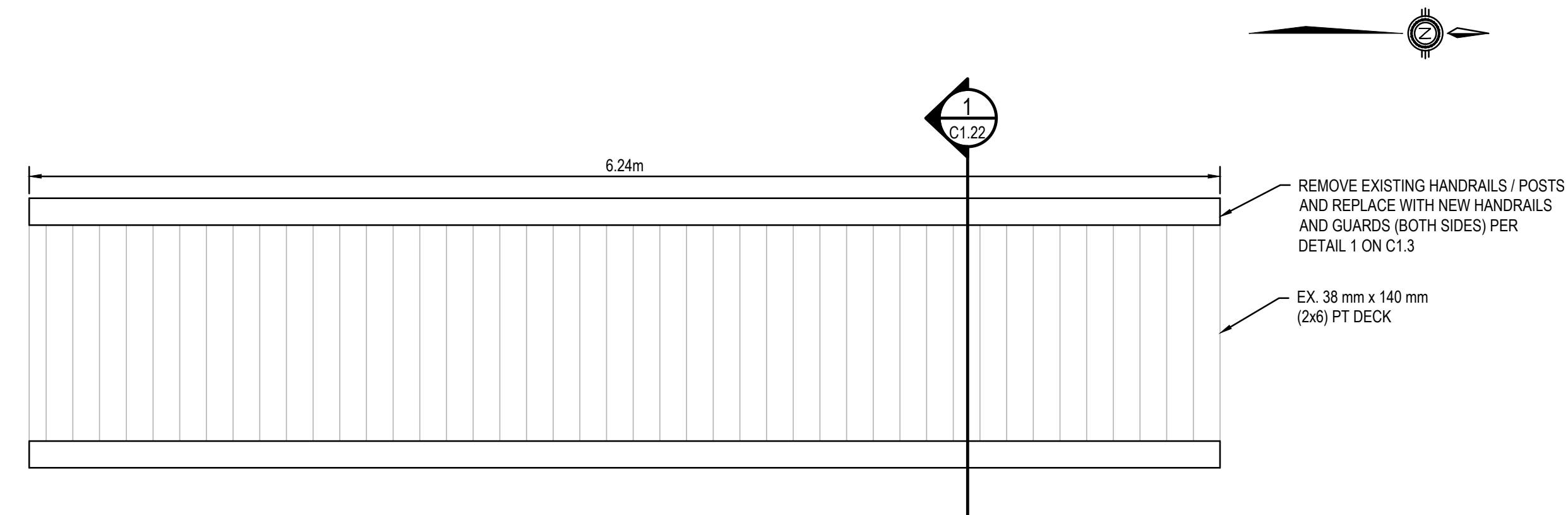
1. ADD ADDITIONAL ANCHOR PLATES ON OPPOSITE FACES OF KNEE BRACES INTO BEDROCK;
2. BEAM - ADD SCREWS TO TIGHTEN THE GAPS BETWEEN LAMINATIONS PER DETAIL 17;
3. REPLACE HANDRAILS WITH NEW HANDRAILS, POSTS AND GUARDS.

Government of Canada / Gouvernement du Canada

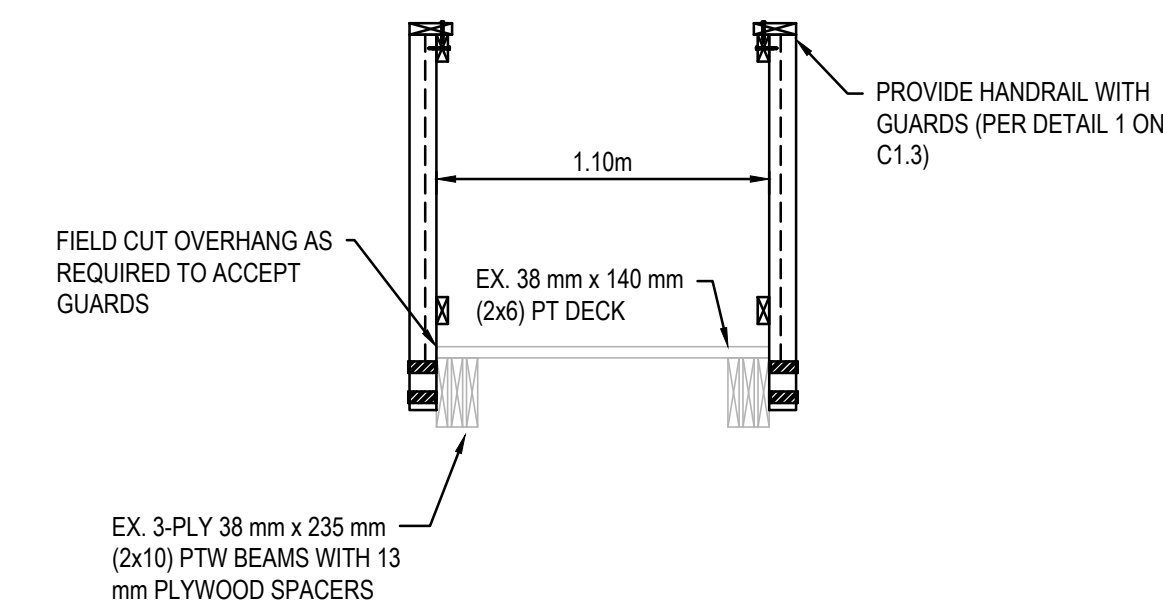


Parks Canada / Parcs Canada
Northern Ontario Field Unit / Unité de gestion du Nord de l'Ontario

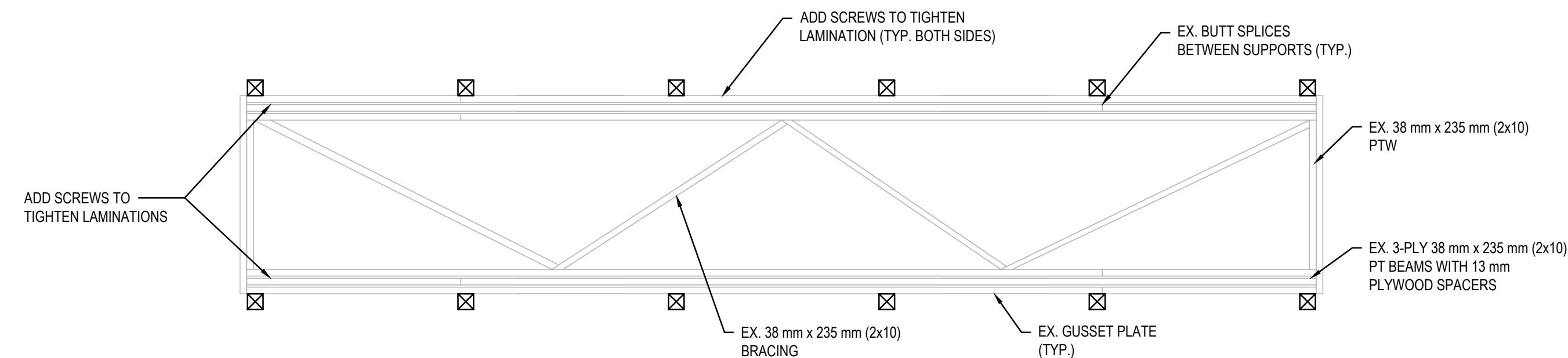
KEY PLAN:



PLAN VIEW
SCALE: N.T.S



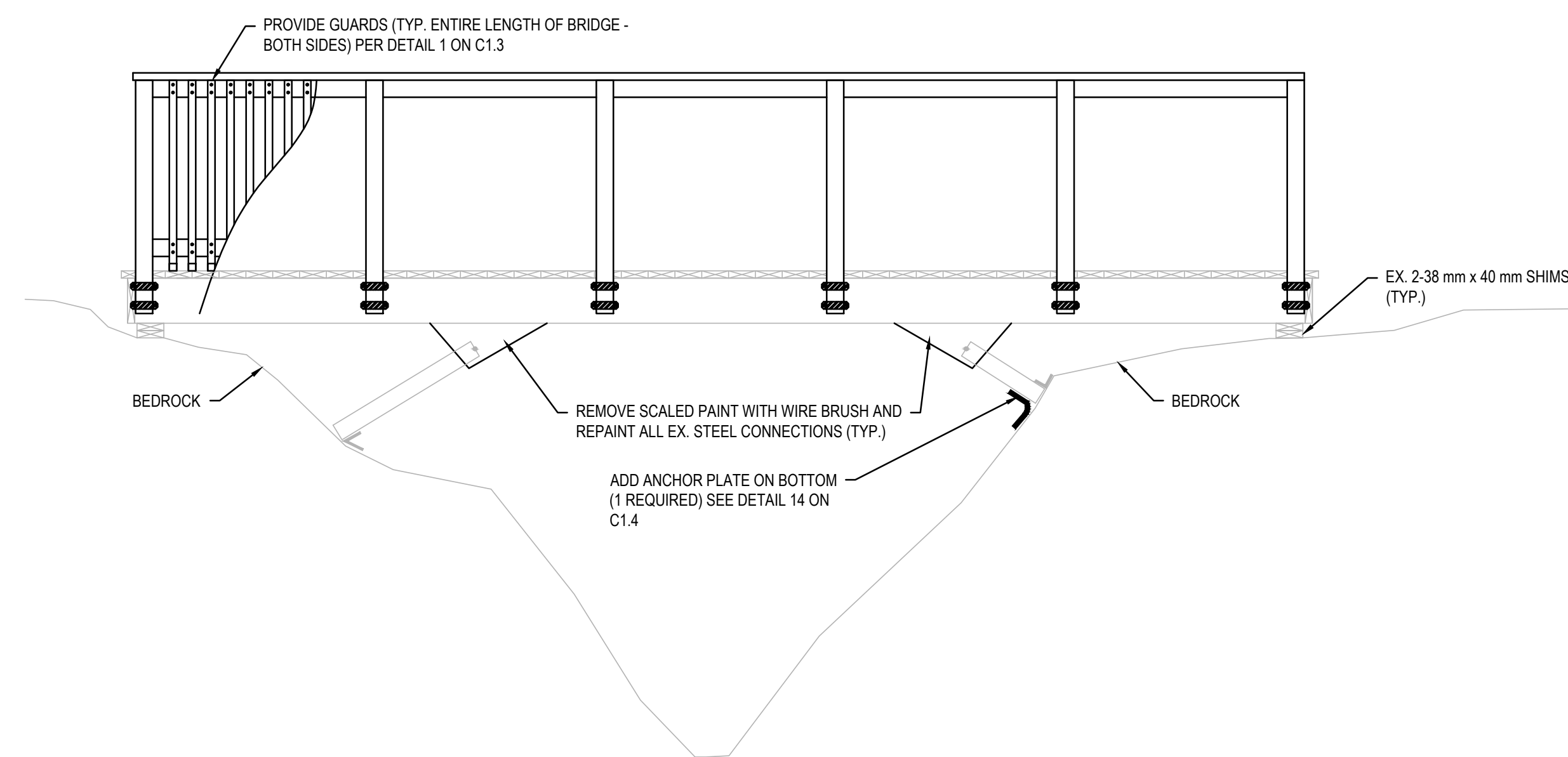
SECTION
SCALE: N.T.S



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

E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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**

186 EAST STREET
SALT SPRING ISLAND, ONTARIO, CANADA, P9A 3C8
TEL.: 705-942-3070 / FAX: 705-942-3532 / WWW.WSPGROUP.COM
WSP-SP-2011-15-0001-001 (WSP# 151-0210-01)

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 17-19
(PROVISIONAL STRUCTURE)

Designed by / Concept par: M.PILON / A.MALLETTE	Date: JUN 26, 2017
Drawn by / Dessiné par: T.PILON / M.PILON / R.COPPENS	Date: JUN 26, 2017
Checked by / Vérifié par: D.SPACEK	Date: JUN 26, 2017
Approved by / Approuvé par: D.SPACEK	Date: JUN 26, 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

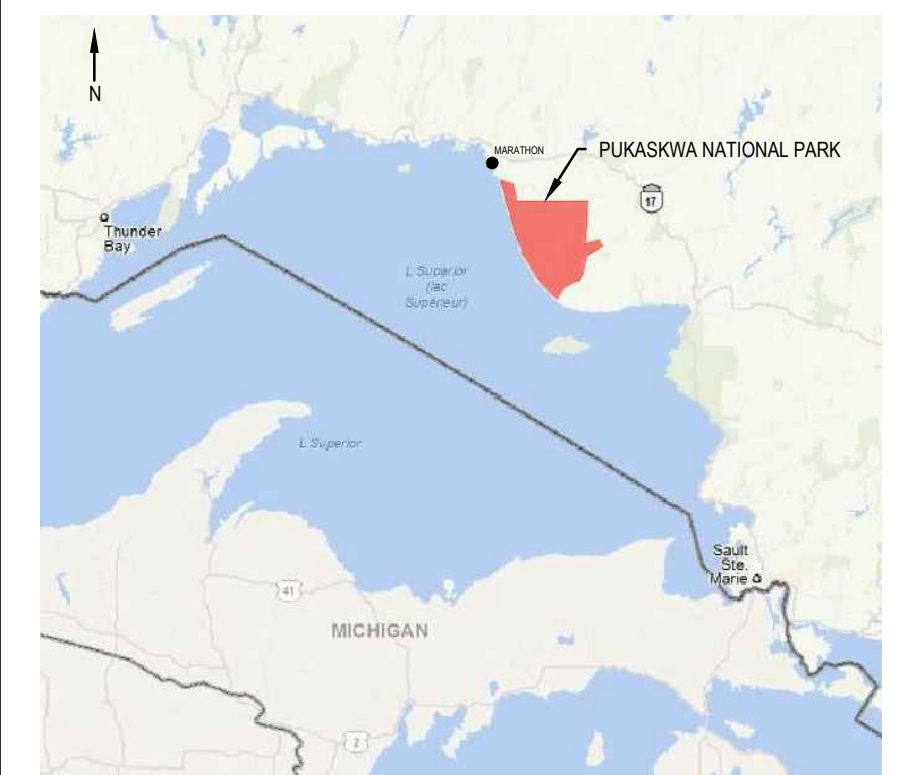
STRUCTURE LOCATION

NORTHING: 5381864
EASTING: 551789

SCOPE OF WORK:
1. CONDUCT REMOVALS AS INDICATED



KEY PLAN:



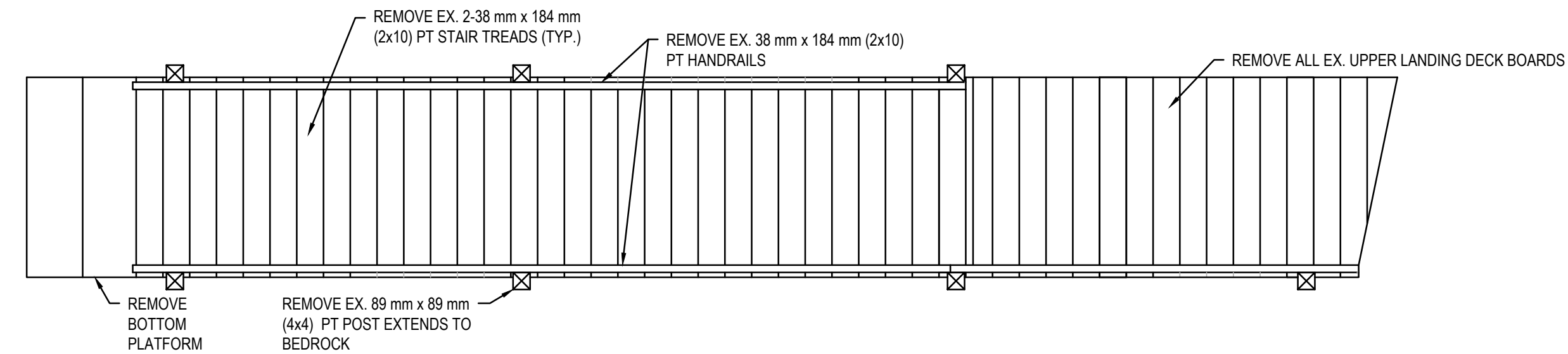
Legends:

NEW CONSTRUCTION

- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

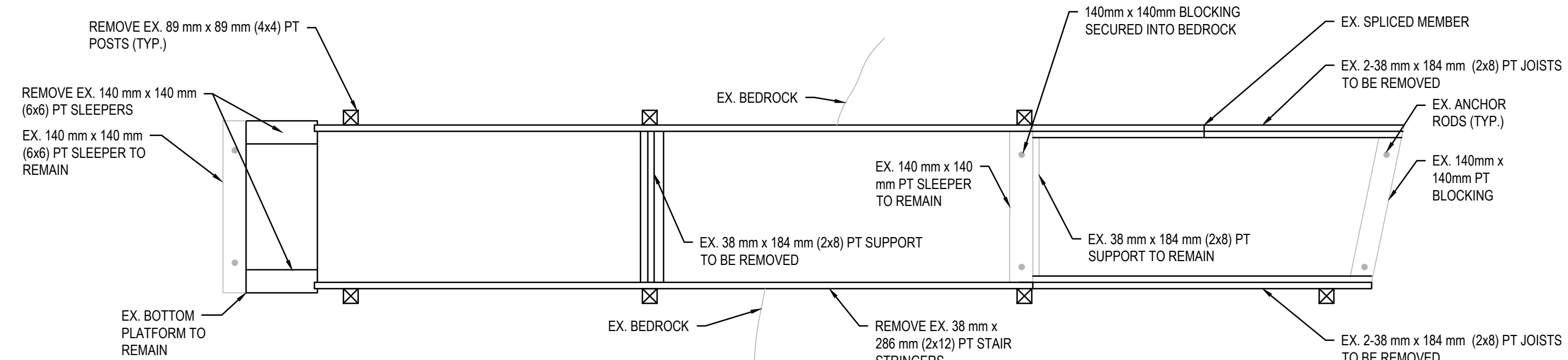
REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN



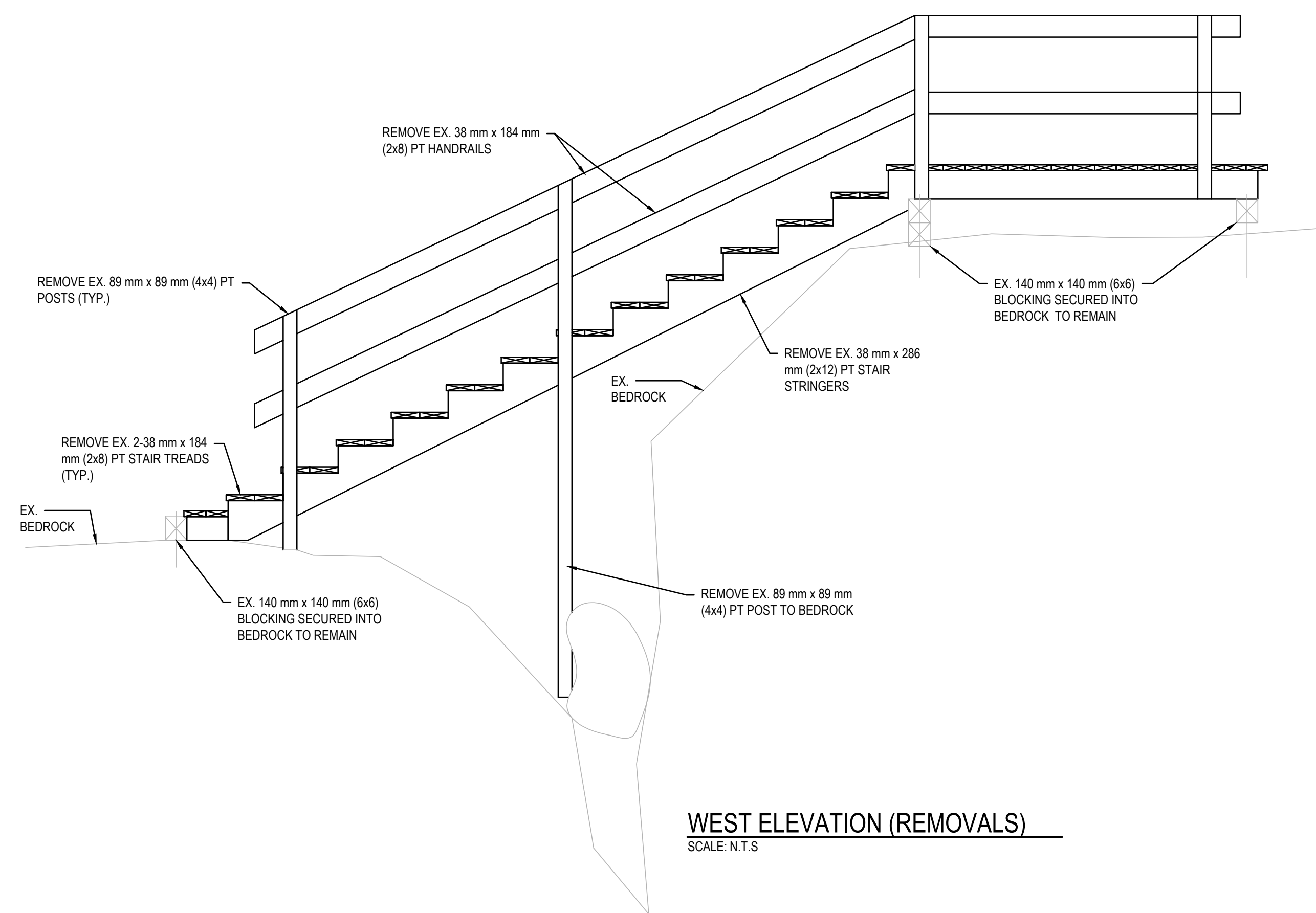
PLAN VIEW (REMOVALS)

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
E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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

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

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

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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 / Concept par: M.PILON / A.MALLETTE	Date: JUN 26, 2017
Drawn by / Dessiné par: M.PILON / T.PILON / R.COPPENS	Date: JUN 26, 2017
Checked by / Vérifié par: D.SPACEK	Date: JUN 26, 2017
Approved by / Approuvé par: D.SPACEK	Date: JUN 26, 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

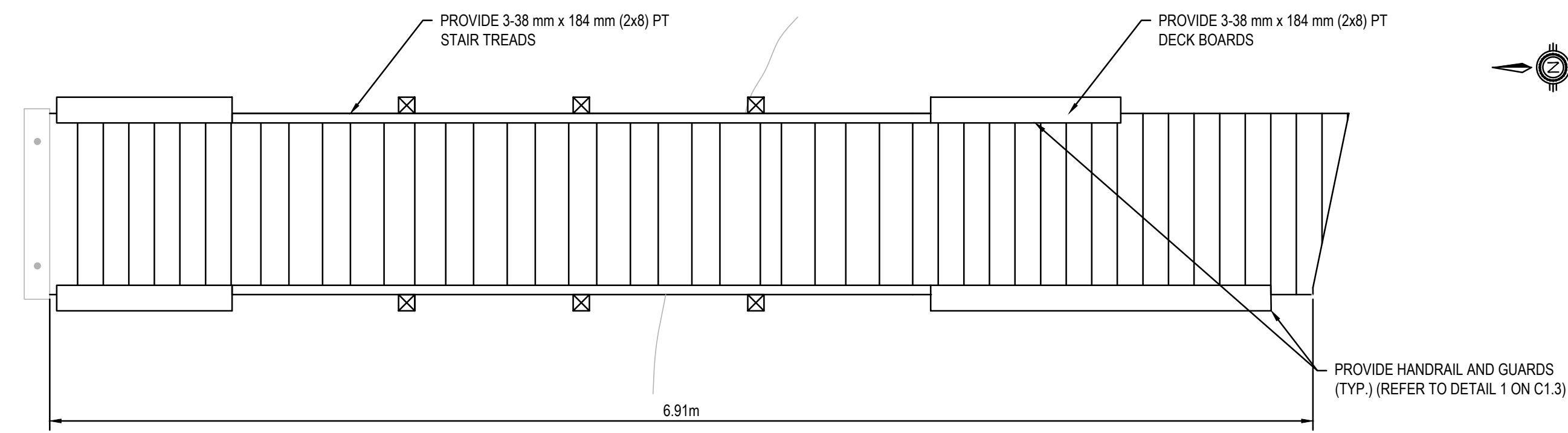
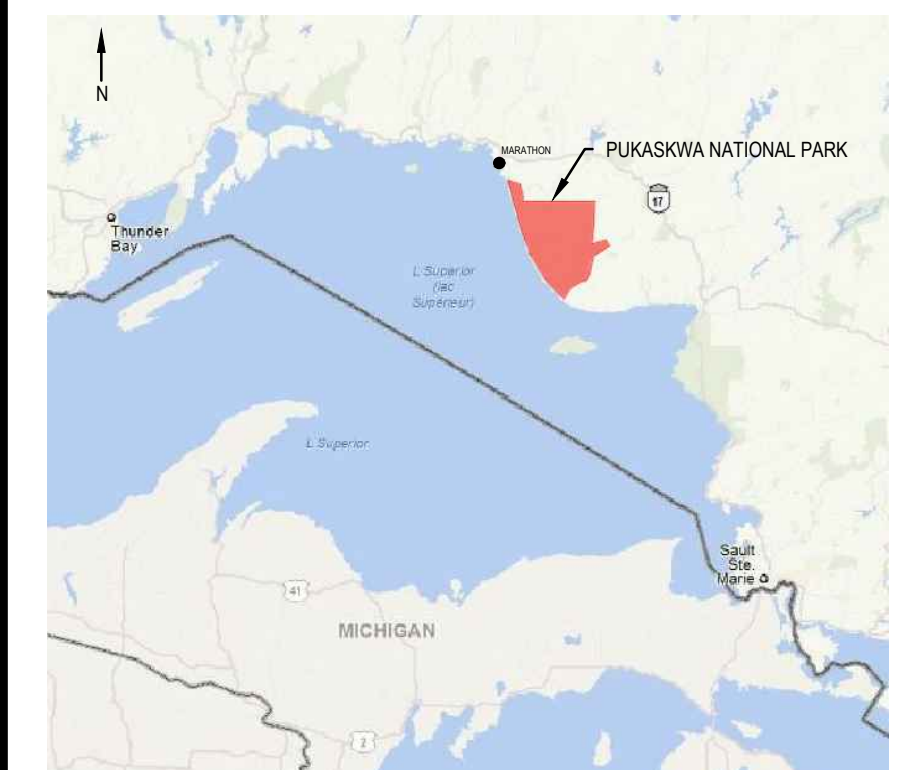
NORTHING: 5381864
EASTING: 551789

SCOPE OF WORK:

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

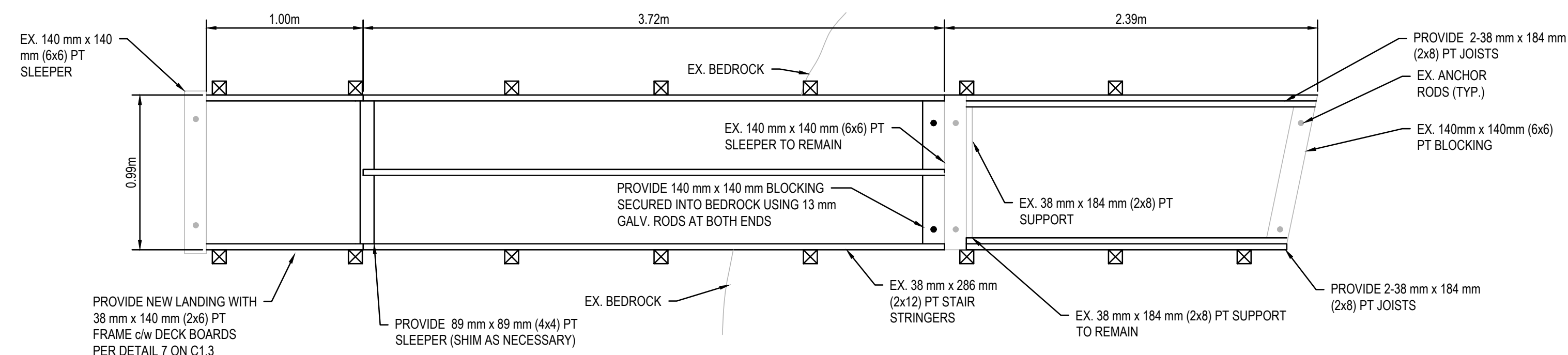


KEY PLAN:



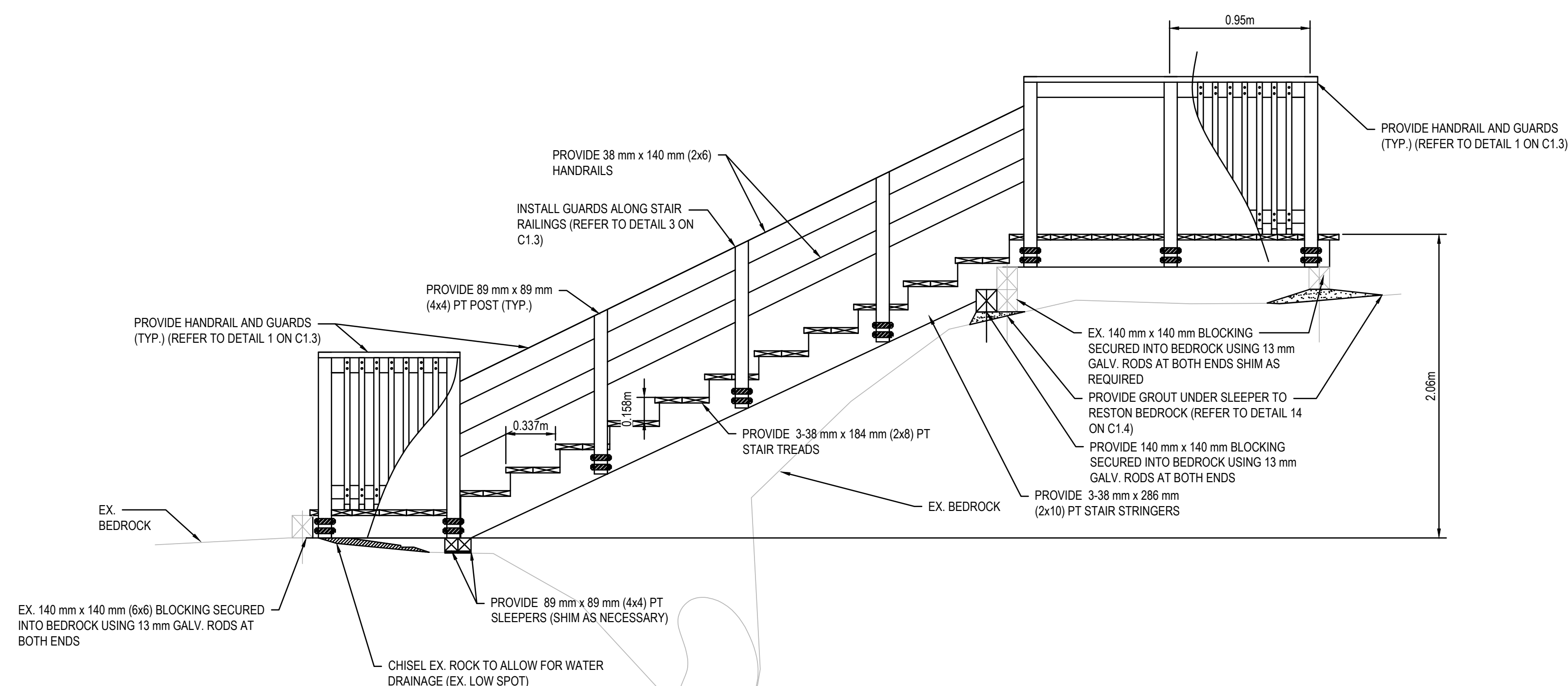
PLAN VIEW (NEW CONSTRUCTION)

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
E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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 / Sheet number	A Numéro de détail / B Numéro de la feuille
B		

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**

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WSP-SP201-15-0001-001 (WSP# 151-0215-07)

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: JUN 26, 2017
Drawn by / Dessiné par: M.PILON / T.PILON / R.COPPENS	Date: JUN 26, 2017
Checked by / Vérifié par: D.SPACEK	Date: JUN 26, 2017
Approved by / Approuvé par: D.SPACEK	Date: JUN 26, 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

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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	B	Detail number / Numéro de détail	A	B	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



Eng. Stamp / Sceau de l'ingénieur



Project title / Titre du projet

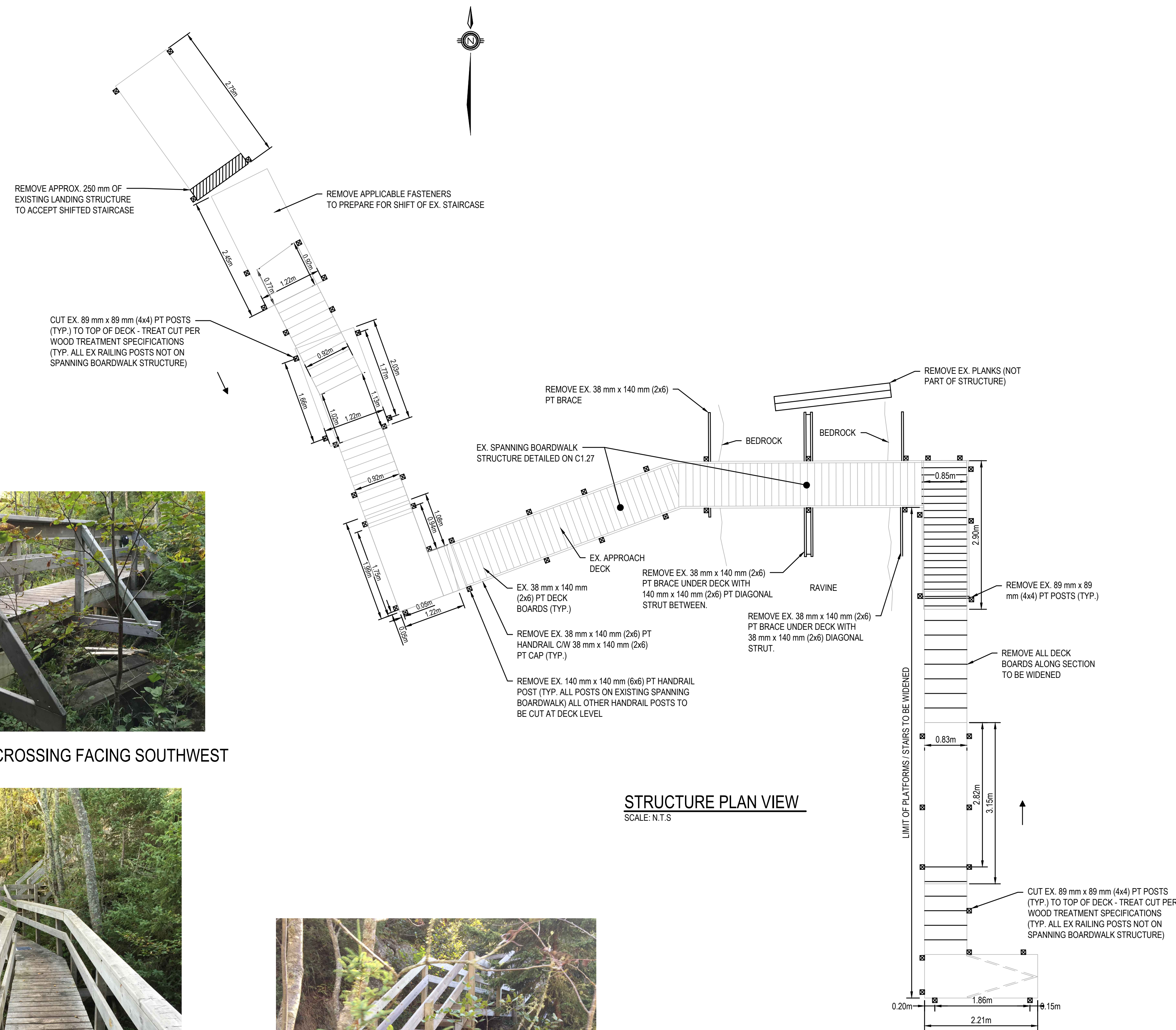
1433 PUK NP
TRAIL BRIDGE STRUCTURE
REHABILITATION PROJECT

Drawing title / Titre du dessin

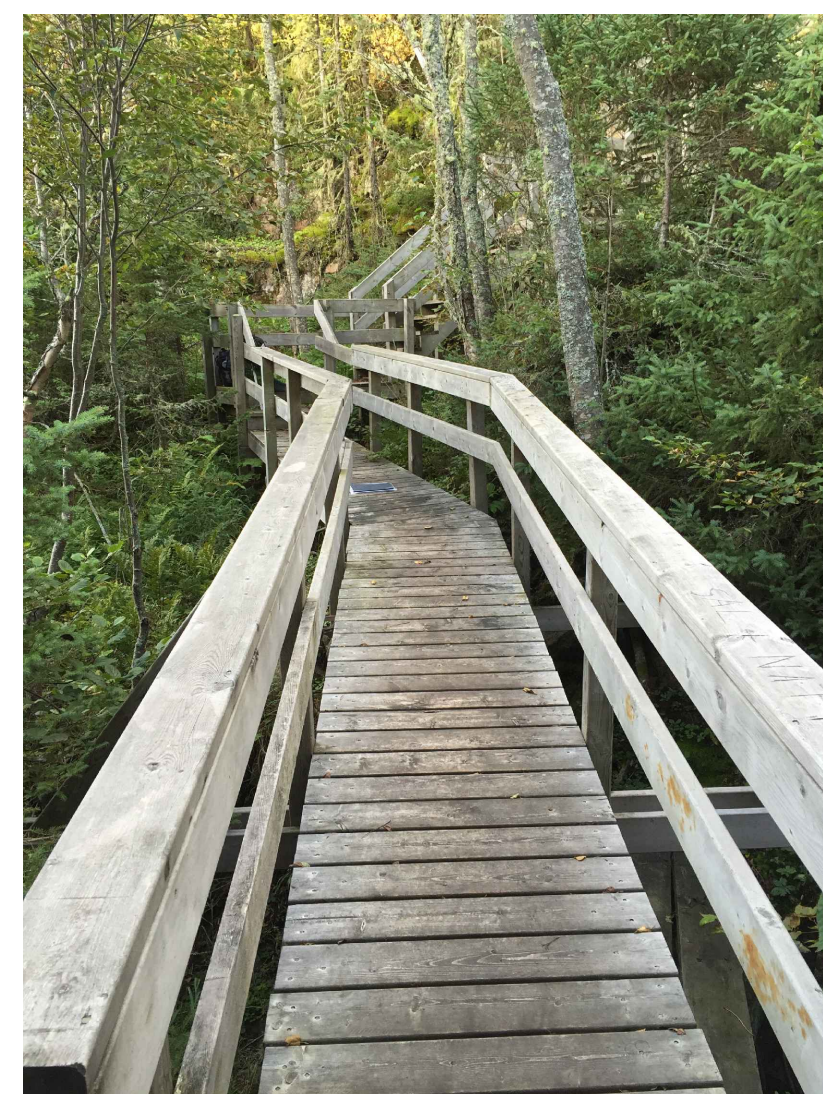
STRUCTURE 17-21
SHEET 1 OF 3
(REMOVALS)

Designed by / Concept par M.PILON / A.MALLETTE	Date JUN 26, 2017
Drawn by / Dessiné par M.PILON / T.PILON / R.COPPENS	Date JUN 26, 2017
Checked by / Vérifié par D.SPACEK	Date JUN 26, 2017
Approved by / Approuvé par D.SPACEK	Date JUN 26, 2017

Project No. / N° du projet 1433	Scale / Échelle AS NOTED	Sheet No. / N° de la feuille C1.25
Drawing Set No. / N° de série du dessin		



VIEW OF RAVINE CROSSING FACING SOUTHWEST



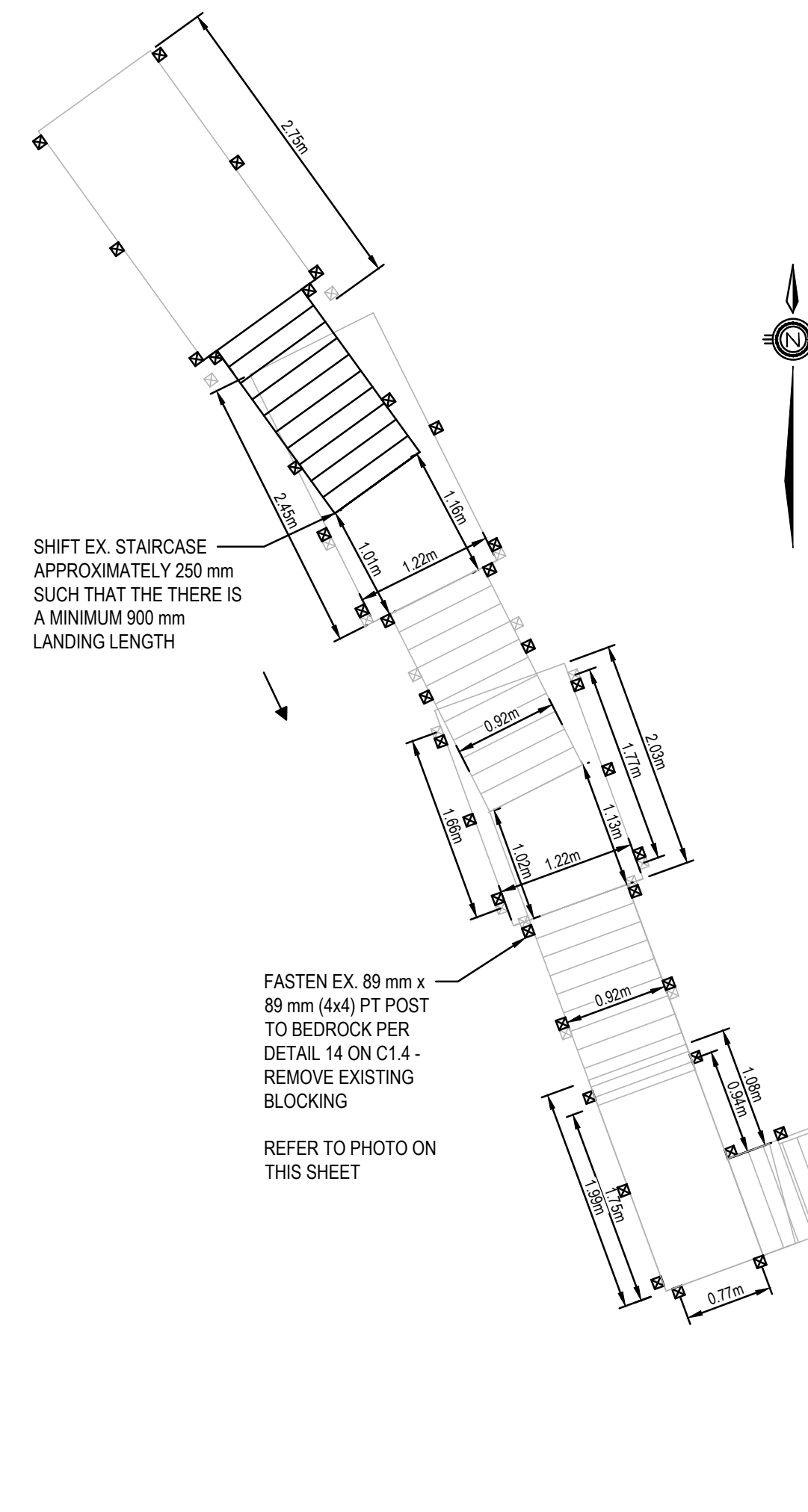
VIEW OF RAVINE CROSSING FACING WEST



VIEW OF WEST STAIRS FACING NORTHWEST

STRUCTURE LOCATION

NORTHING: 5382565
EASTING: 552359



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: DO NOT REMOVE EXISTING SUPPORT POSTS. ONLY REMOVE EX. HANDRAILS TO TOP OF EX. DECKING

STRUCTURE PLAN VIEW

SCALE: N.T.S.

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:



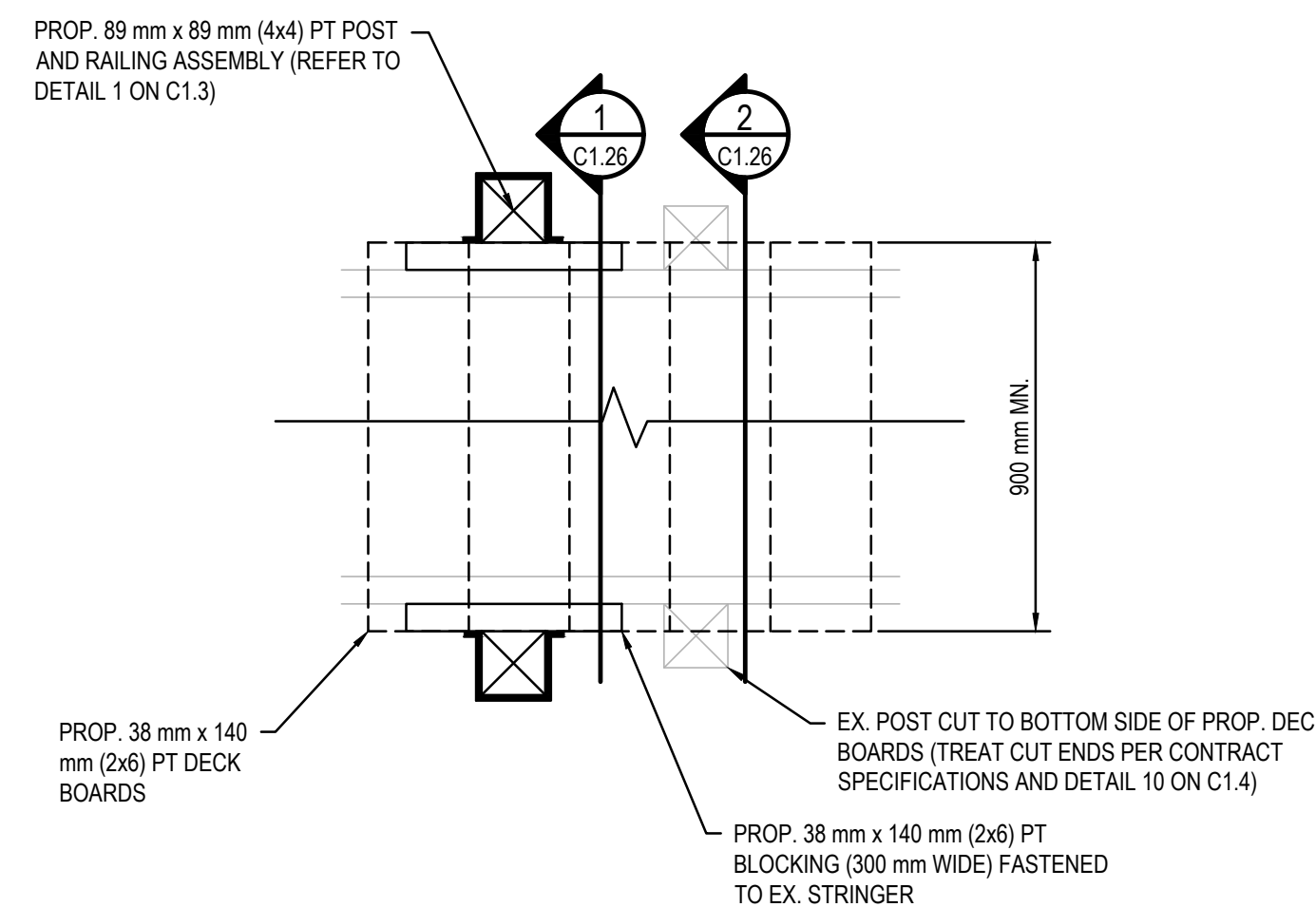
Legends:

NEW CONSTRUCTION

- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

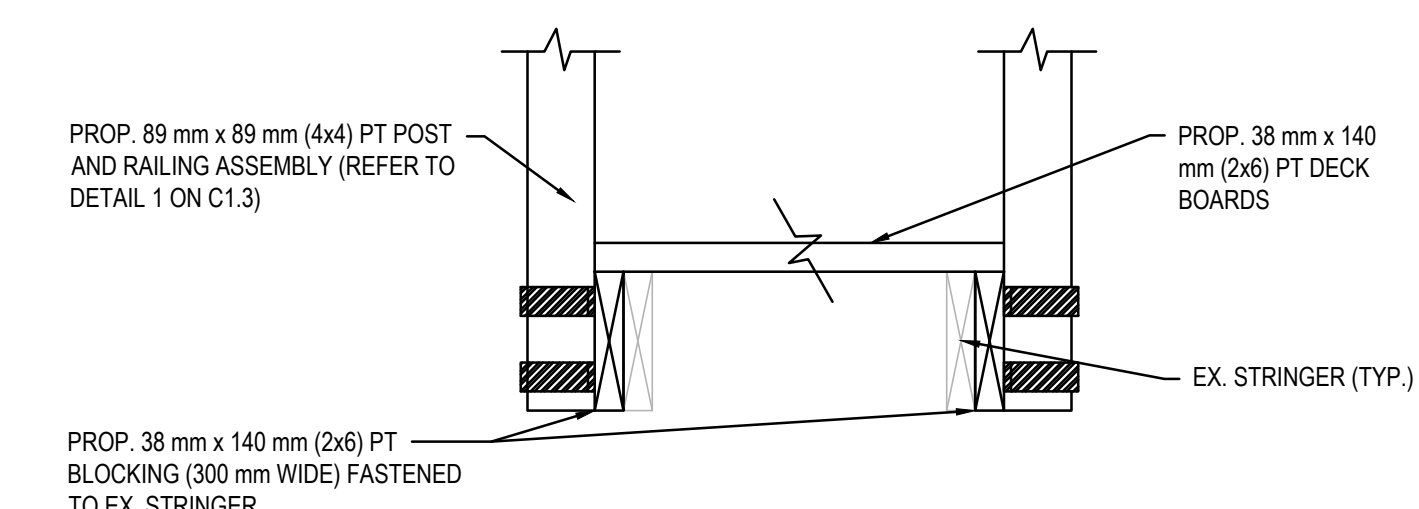
REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN



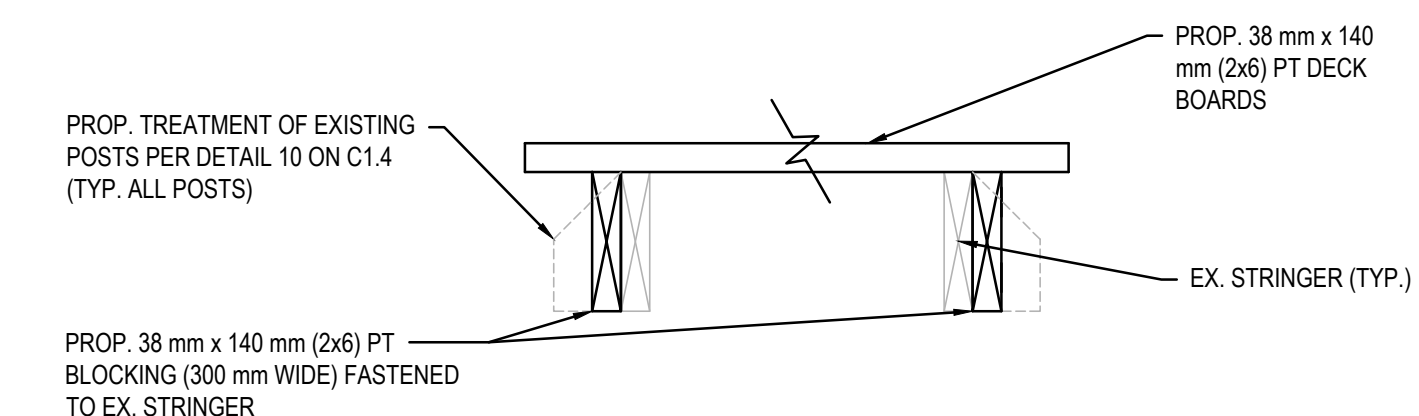
PLATFORM/STAIRCASE WIDENING DETAIL (PLAN VIEW)

SCALE: N.T.S.



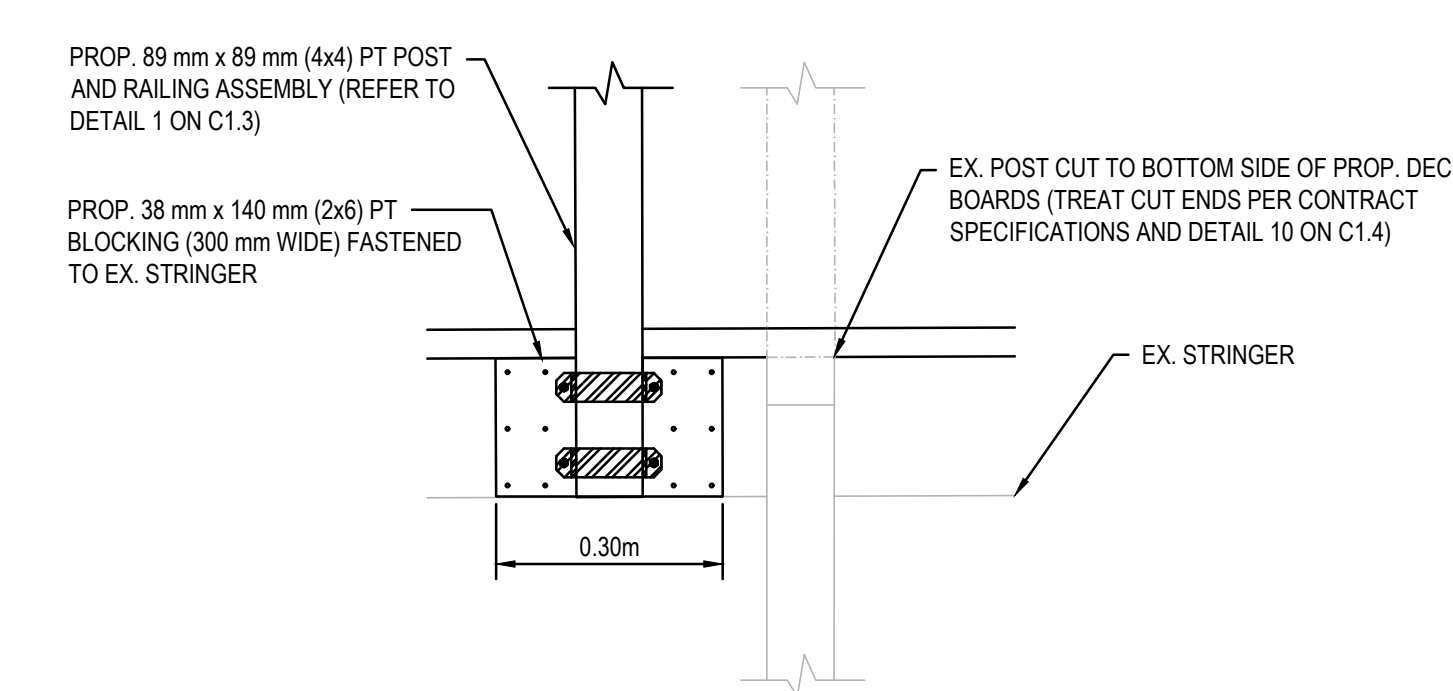
SECTION 1

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
E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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-consultant: **WSP**

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WSP-SP-2011-15-0001-001 (WSP# 151-02105-07)

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

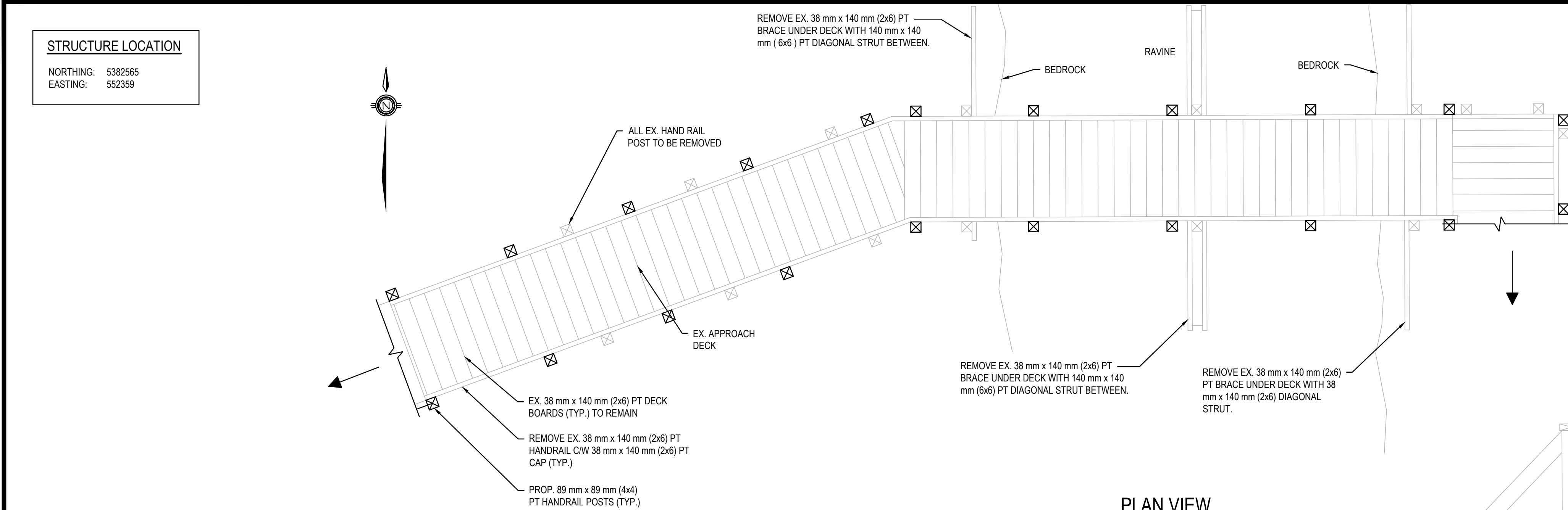
Project title / Titre du projet: **1433 PUK NP TRAIL BRIDGE STRUCTURE REHABILITATION PROJECT**

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

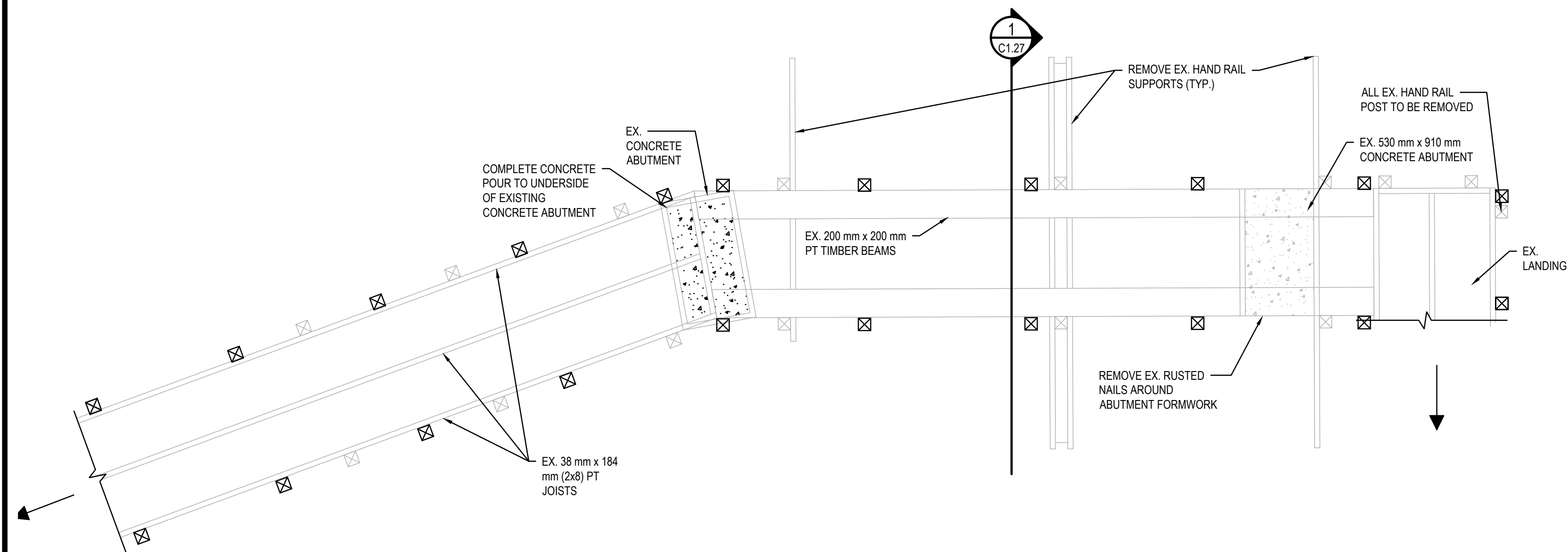
Designed by / Concept par: M.PILON / A.MALLETTE	Date: JUN 26, 2017
Drawn by / Dessiné par: M.PILON / T.PILON / R.COPPENS	Date: JUN 26, 2017
Checked by / Vérifié par: D.SPACEK	Date: JUN 26, 2017
Approved by / Approuvé par: D.SPACEK	Date: JUN 26, 2017
Project No. / N° du projet: 1433	Scale / Échelle: AS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

STRUCTURE LOCATION

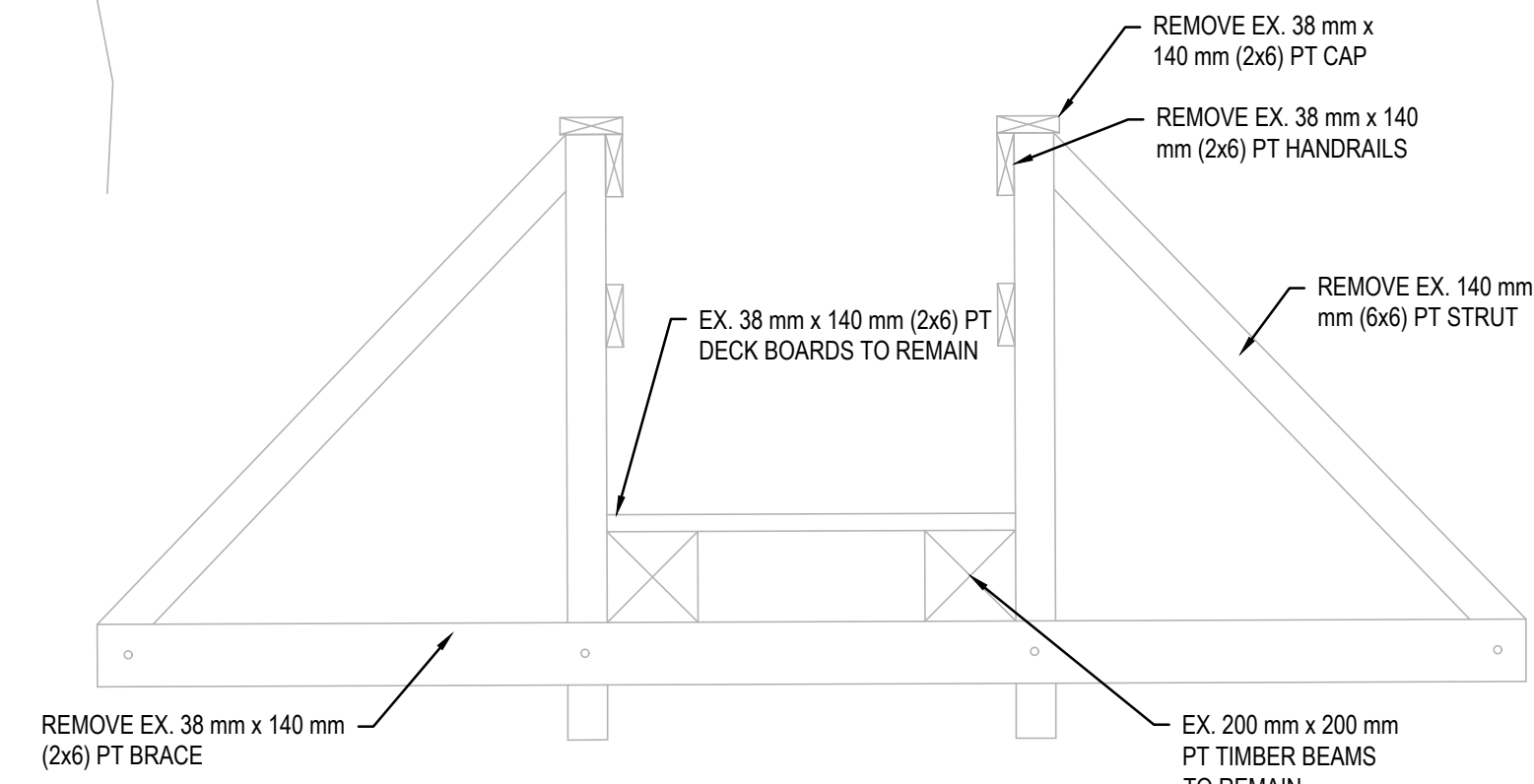
NORTHING: 5382565
EASTING: 552359



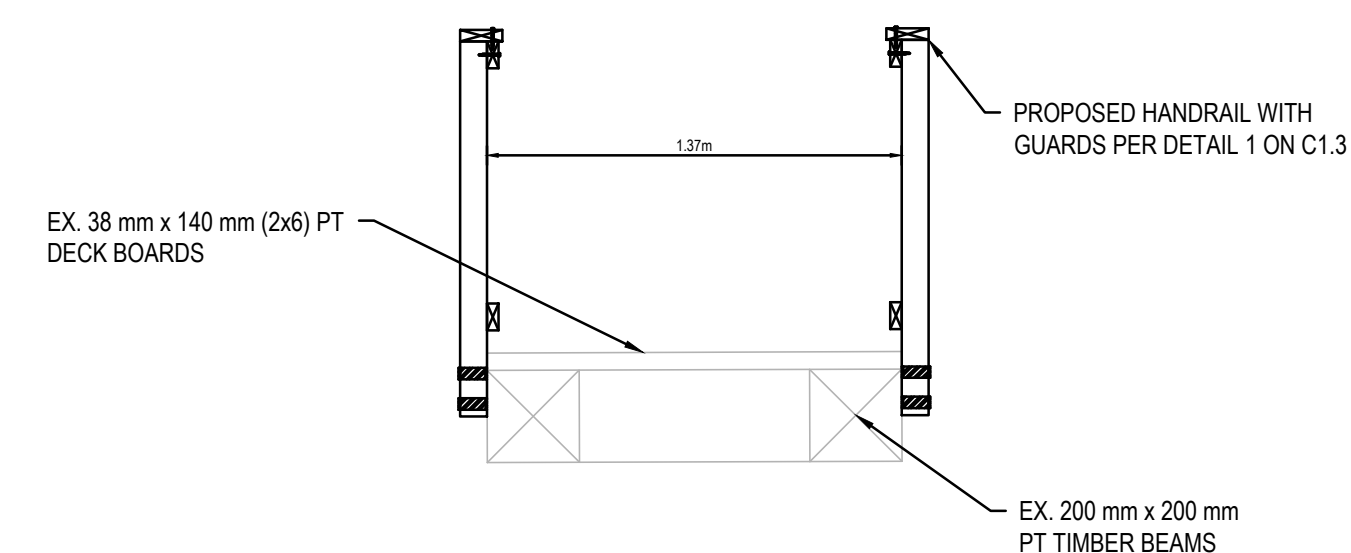
PLAN VIEW
SCALE: N.T.S.



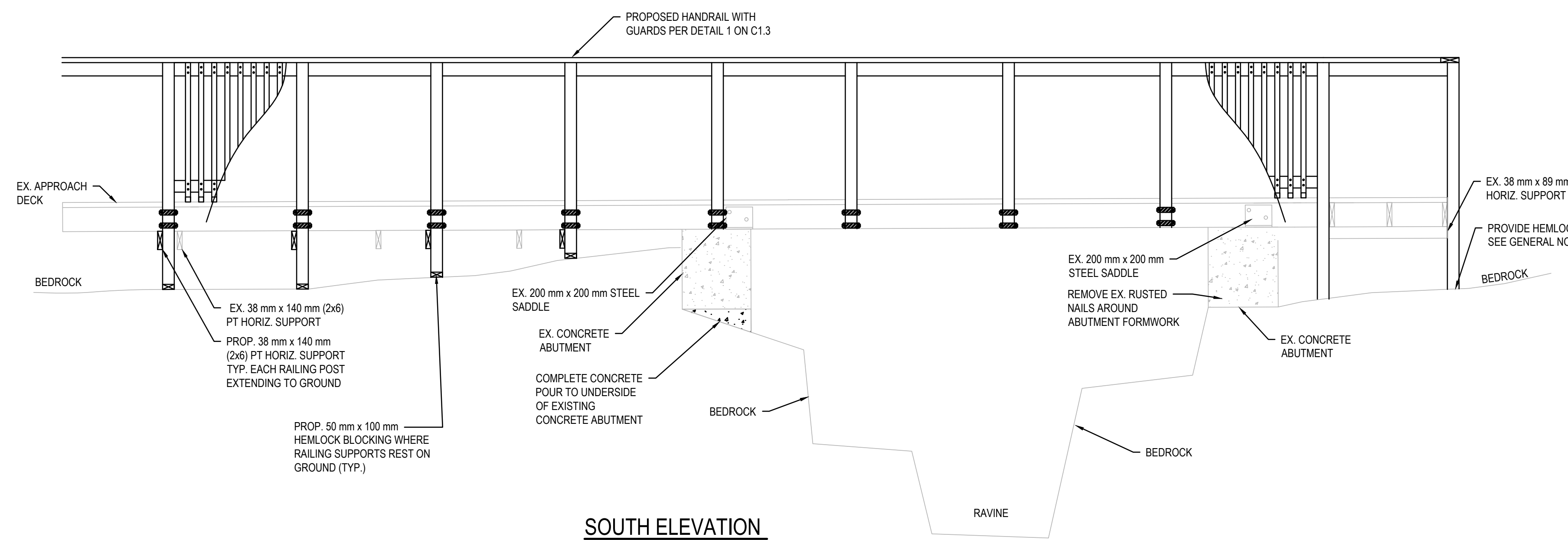
STRUCTURAL PLAN
SCALE: N.T.S.



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



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



SOUTH ELEVATION
SCALE: N.T.S.

KEY PLAN:



Legends:

NEW CONSTRUCTION

- PROPOSED / TO BE PROVIDED
- EXISTING / TO REMAIN

REMOVALS

- EXISTING / TO BE REMOVED
- EXISTING / TO REMAIN

E	26JUN17	ISSUED FOR TENDER - REV SCOPE	VARIES	D.SPACEK
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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No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

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
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WSP-SP-2011-15-0001-001 (WSP# 151-02105-07)

Eng. Stamp / Sceau de l'ingénieur
D. M. SPACEK
PROFESSIONAL ENGINEER
ONTARIO

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/Conçue par M.PILON / A.MALLETTE	Date JUN 26, 2017
Drawn by/Dessiné par T.PILON	Date JUN 26, 2017
Checked by/Vérifié par D.SPACEK	Date JUN 26, 2017
Approved by/Approuvé par D.SPACEK	Date JUN 26, 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