

FOUNDATION NOTES

- 1. REFERENCE GEOTECHNICAL REPORT, IF AVAILABLE, FOR SOIL AND FOUNDATION CONDITIONS.
- 2. NO FOUNDATION SHALL BE POURED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- 3. REMOVE ALL LOOSE AND UNSUITABLE SOIL AND ROCK UNDER FOUNDATIONS DOWN TO SOLID BEDROCK.
- 4. ALL CONCRETE FOUNDATIONS TO BE ANCHORED TO BEDROCK AS DETAILED ON DESIGN DRAWINGS.
- 5. IF SITE CONDITIONS DIFFER FROM DESIGN DRAWINGS NOTIFY ENGINEER IMMEDIATELY PRIOR TO PROCEEDING WITH WORK.

CONCRETE AND REINFORCEMENT NOTES

- 1. ALL CONCRETE WORK SHALL CONFORM TO CSA STANDARDS A23.1, A23.2 & A23.3.
- 2. DETAILING, FABRICATION AND PLACEMENT OF ALL REINFORCEMENT SHALL BE IN COMFORMANCE TO THE LATEST EDITION OF "REINFORCING STEEL MANUAL OF STANDARD PRACTICE" BY THE REINFORCING STEEL INSTITUTE OF ONTARIO OR ACI 315.
- 3. ALL REINFORCEMENT SHALL BE DEFORMED BARS CONFORMING TO CSA G30.18. MINIMUM YIELD STRENGTH OF 400 MPa.
- 4. FOOTING DOWELS SHALL BE LAPPED SPLICED THE GREATER OF 750 MM OR 36 BAR DIAMETERS TO THE VERTICAL PIER REINFORCEMENT.
- 5. CONCRETE REQUIREMENTS:

LOCATION	STRENGTH	CLASS OF EXPOSURE	SLUMP	AIR CONTENT	W/C RATIO
FOOTINGS	35 MPa	C-1	75MM	5-8%	0.40
PIERS	35 MPa	C-1	75MM	5-8%	0.40
- 6. CLEAR CONCRETE COVER TO REINFORCING UNLESS NOTED OTHERWISE:
  - a. UNDERSIDE OF FOOTINGS – 75 MM
  - b. PIERS – 50 MM
- 7. RE-USE OF FORMWORK AND FALSEWORK SUBJECT TO REQUIREMENTS OF CSA A23.1.
- 8. CHAMFER ALL EXPOSED CORNERS OF CONCRETE 20 MM UNLESS NOTED OTHERWISE.
- 9. PROVIDE 25 MM NON-SHRINK GROUT UNDER BASE PLATES UNLESS NOTED OTHERWISE.
- 10. ALL REBAR TO BE ANCHORED TO BEDROCK WITH HILTI HIT-HY 200-A OR APPROVED EQUAL.

STRUCTURAL ALUMINUM NOTES

- 1. DESIGN SHALL CONFORM TO CAN/CSA S157.
- 2. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS OF COMPANIES IN COMPLIANCE WITH:
  - a. CSA W47.2 CERTIFICATION OF COMPANIES FOR FUSION WELDING OF ALUMINUM
  - b. CSA W59.2 WELDING ALUMINUM CONSTRUCTION
- 3. ALL ALUMINIUM SECTIONS TO BE 6061-T6 STOCK. FY= 240 MPa.
- 4. ALL WELDS TO BE CONTINUOUS. MINIMUM WELD TO BE 6 MM UNLESS NOTED OTHERWISE.
- 5. ALL FABRICATORS TO SUBMIT SHOP DRAWINGS STAMPED AND SIGNED BY AN ENGINEER LICENCED TO PRACTICE IN THE PROVINCE OF NEWFOUNDLAND AND LABRADOR.
- 6. PROVIDE ALL NECESSARY DETAILS, MATERIALS AND CONNECTIONS IN ACCORDANCE WITH INDUSTRY STANDARD DETAILS.

ANCHOR BOLTS & FASTENERS

- 1. ALL ANCHOR BOLTS TO BE A307 GALVANIZED STEEL.
- 2. ALL BOLTS AND FASTENERS TO BE A325 GALVANIZED.
- 3. PREVENT CONTACT OF DISSIMILAR METALS BY USE OF ISOLATION MATERIALS.

BRIDGE FABRICATION

- 1. ALL FIELD CONNECTIONS TO BE BOLTED.
- 2. BRIDGE TO BE FABRICATED IN PIECES THAT CAN BE HANDLED ON SITE BY TWO(2) MEN.
- 3. FABRICATOR TO COORDINATE INSTALLATION WITH GENERAL CONTRACTOR.

PROVINCE OF NEWFOUNDLAND AND LABRADOR

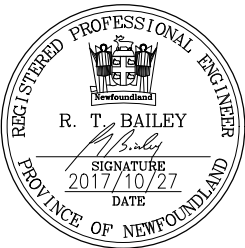
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MIRC: 

To practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by PEG N0540 which is valid for the year 2017.



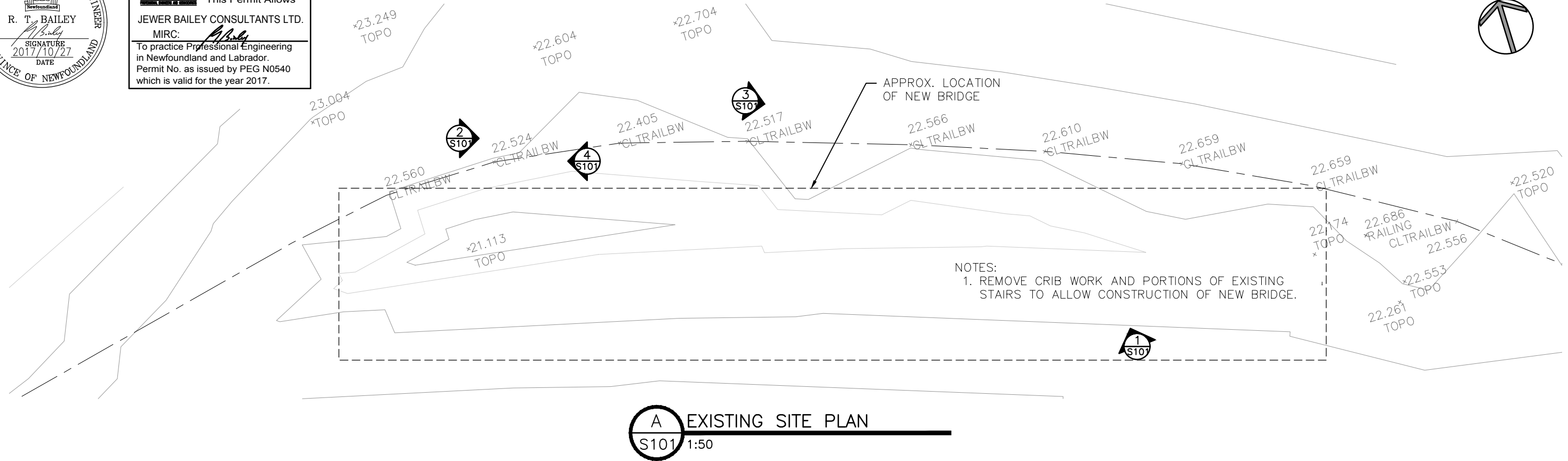


PROVINCE OF NEWFOUNDLAND AND LABRADOR

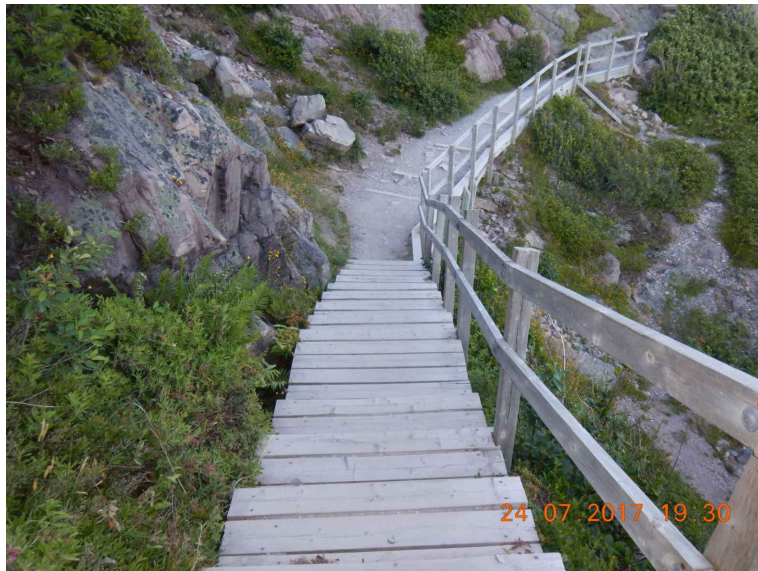
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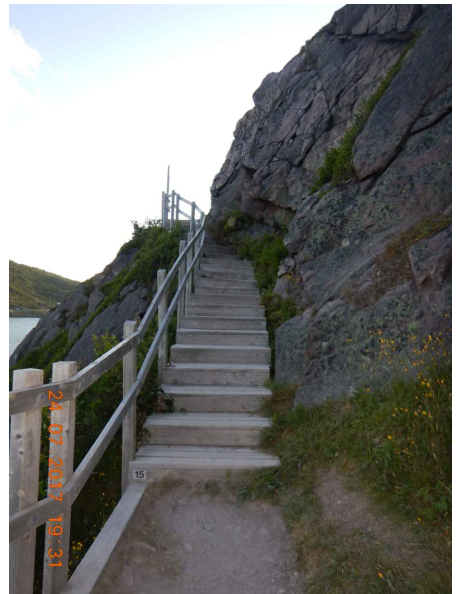
1 PHOTO 1  
S101



2 PHOTO 2  
S101



3 PHOTO 3  
S101



4 PHOTO 4  
S101



100 LEMARCHANT ROAD  
ST. JOHN'S, NL  
CANADA A1C 2H2  
  
TEL (709) 738-2500  
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CLIENT



PROJECT

NORTH HEAD TRAIL  
RECAPITILAZTION

DRAWING

NH14  
EXISTING  
CONDITIONS &  
DEMOLITION

4	ISSUED FOR TENDER	27/10/2017
3	ISSUED FOR 100% REVIEW	18/10/2017
2	ISSUED FOR 99% REVIEW	10/06/2017
NO.	REVISION	MM/DD/YY

DRAWN	CG
DATE	OCT. 2017
DESIGNED	RB

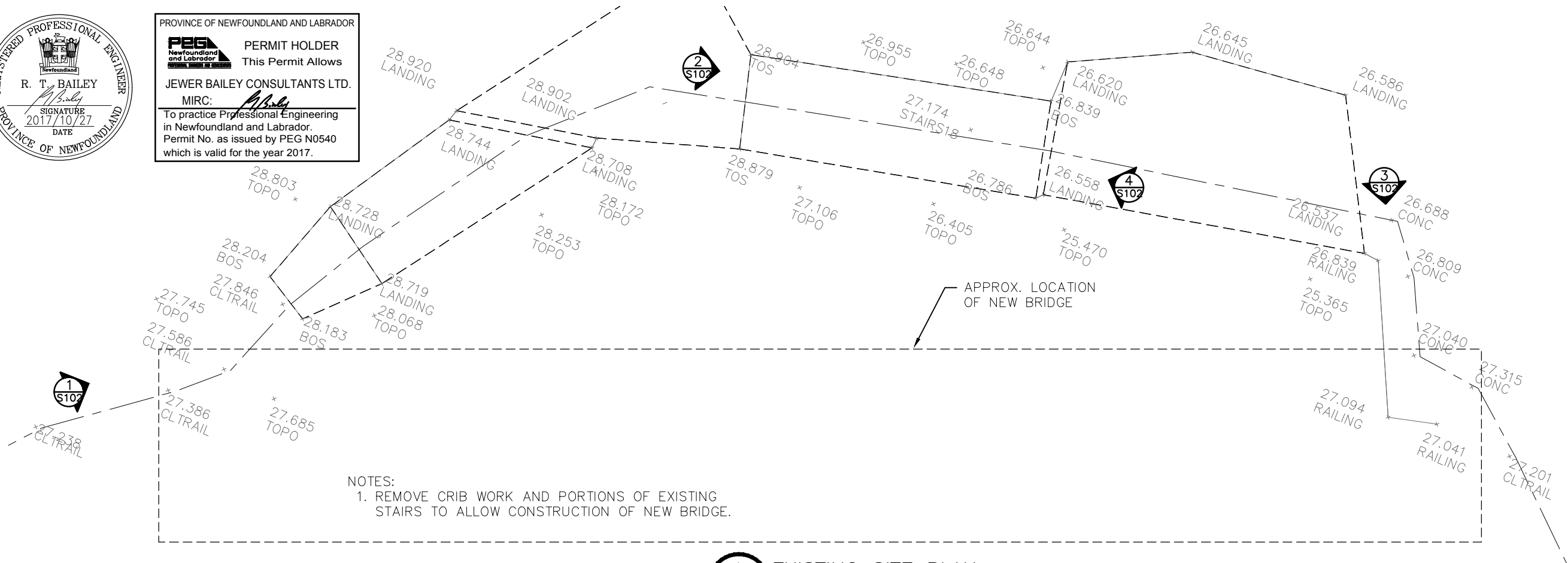
SCALE  
1:50

SHEET  
**S101**





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NOTES:  
1. REMOVE CRIB WORK AND PORTIONS OF EXISTING  
STAIRS TO ALLOW CONSTRUCTION OF NEW BRIDGE.

A EXISTING SITE PLAN  
S102 1:50



1 PHOTO 1  
S102



2 PHOTO 2  
S102



3 PHOTO 3  
S102



4 PHOTO 4  
S102



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PROJECT

NORTH HEAD TRAIL  
RECAPITILAZTION

DRAWING

STAIR 18  
EXISTING  
CONDITIONS &  
DEMOLITION

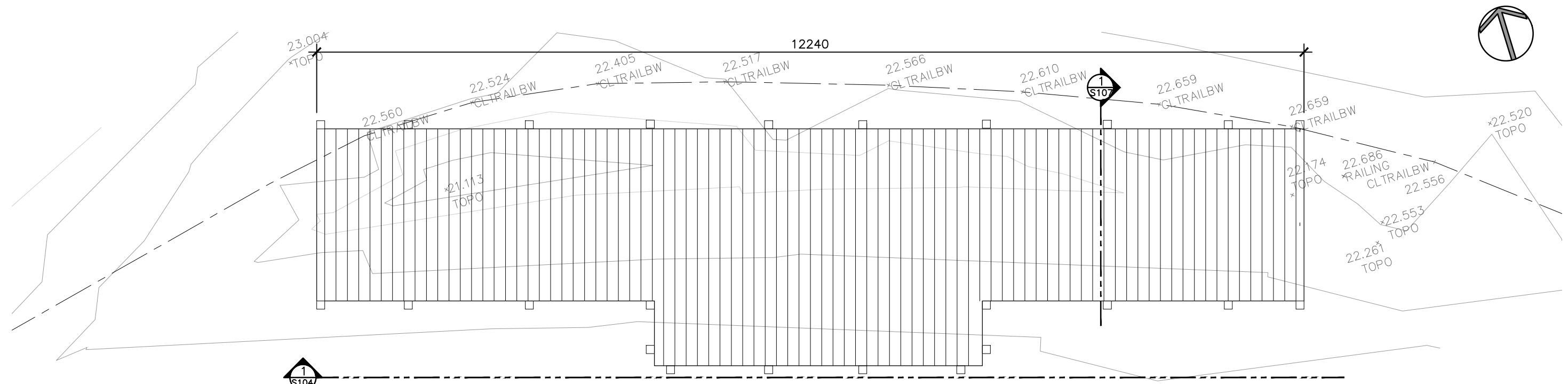
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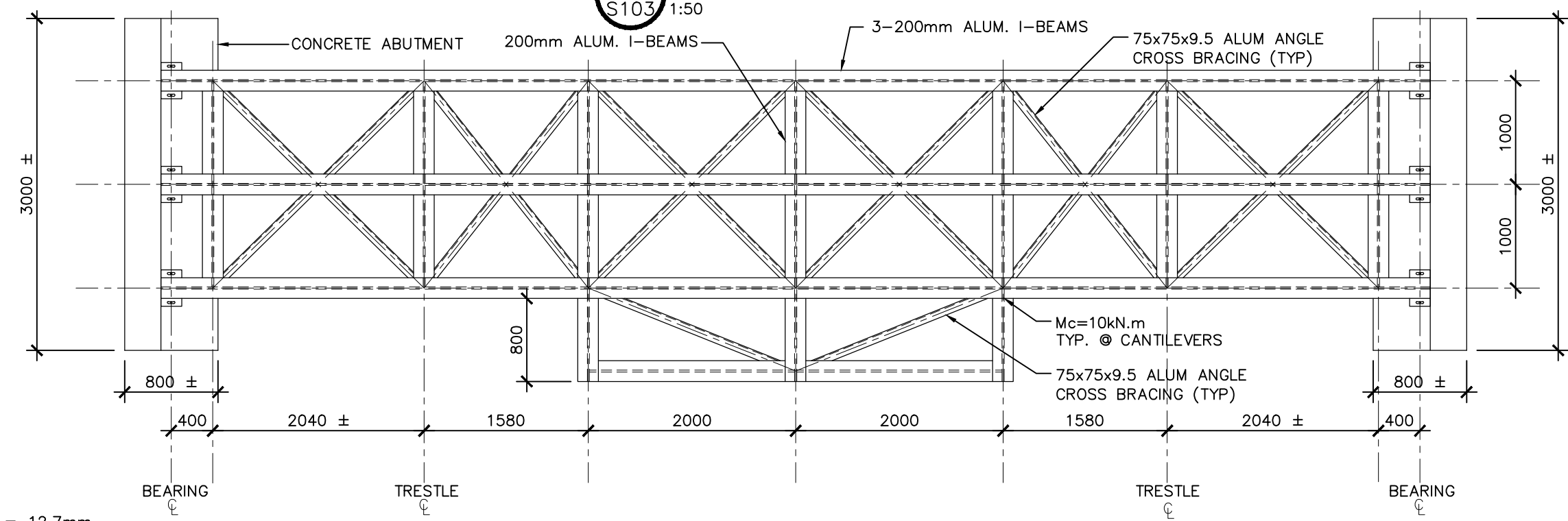
SCALE  
1:50

SHEET  
**S102**

NOTES:  
ALL BRIDGE MATERIAL TO BE ALUMINUM,  
UNLESS OTHERWISE SPECIFIED



1 DECKING AND RAILING PLAN  
S103 1:50



2 STRUCTURAL PLAN  
S103 1:50

NOTE:  
1. ALUMINUM I-BEAM/COLUMN

FLANGE (t) = 12.7mm  
WEB (w) = 9.5mm

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REGISTERED PROFESSIONAL ENGINEER  
R. T. BAILEY  
SIGNATURE  
2017/10/27  
DATE  
PROVINCE OF NEWFOUNDLAND



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PROJECT  
NORTH HEAD TRAIL  
RECAPITILAZTION

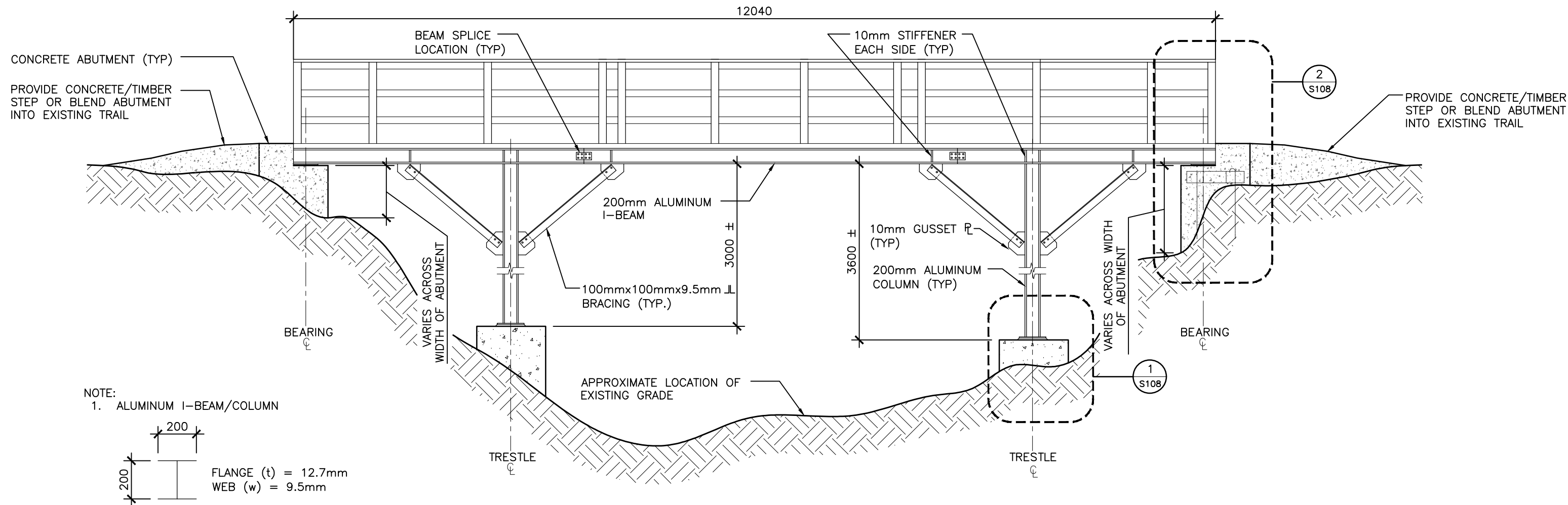
DRAWING  
NH14  
BRIDGE PLAN

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DATE  
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SCALE  
1:50  
SHEET  
S103





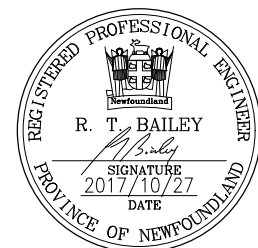
1 BRIDGE ELEVATION  
S103 1:50

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PROJECT

NORTH HEAD TRAIL  
RECAPITILAZTION

DRAWING

NH14  
ELEVATION

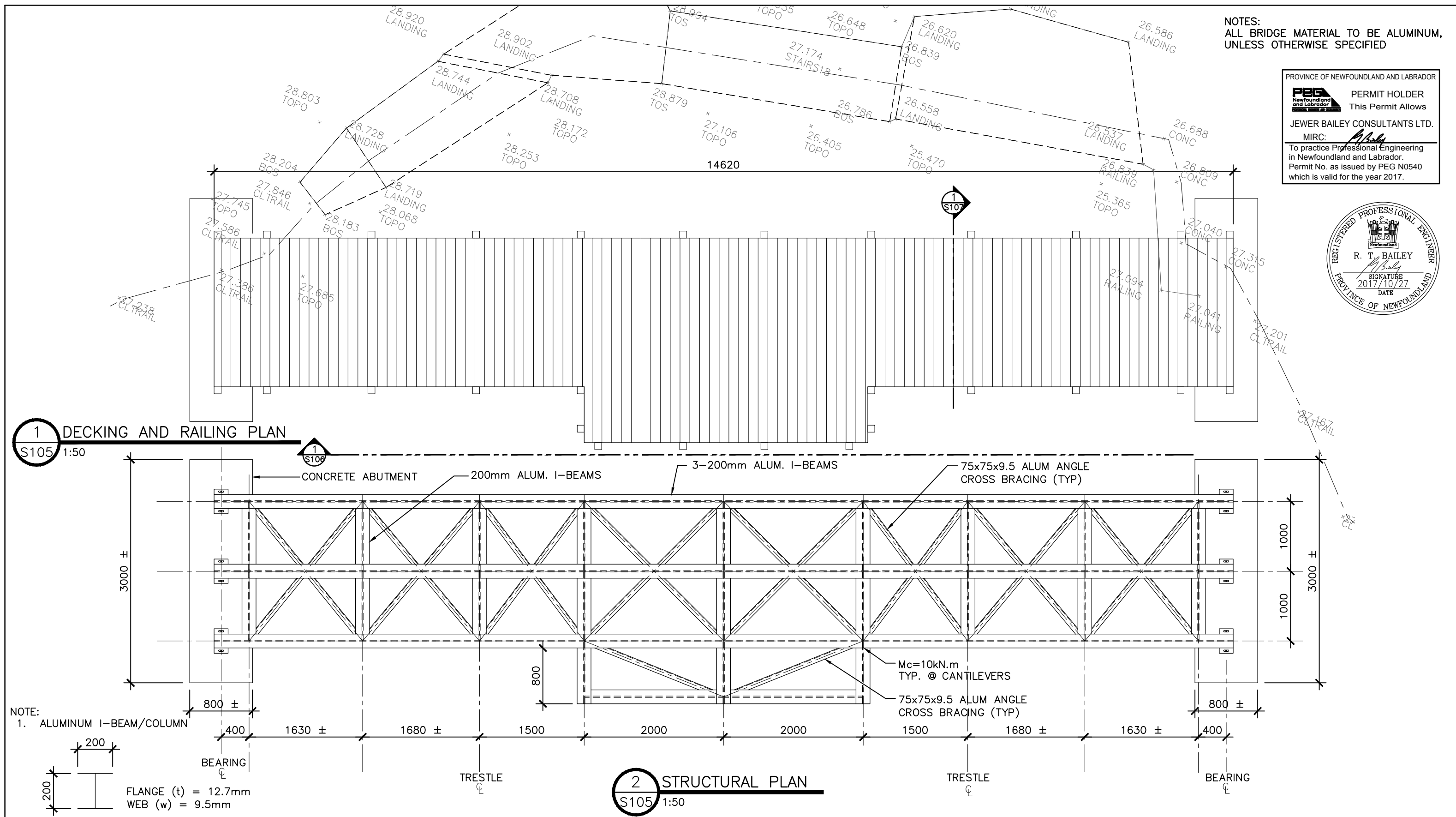
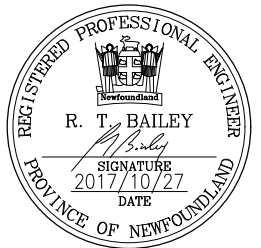
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DRAWN	CG
DATE	OCT. 2017
DESIGNED	RB

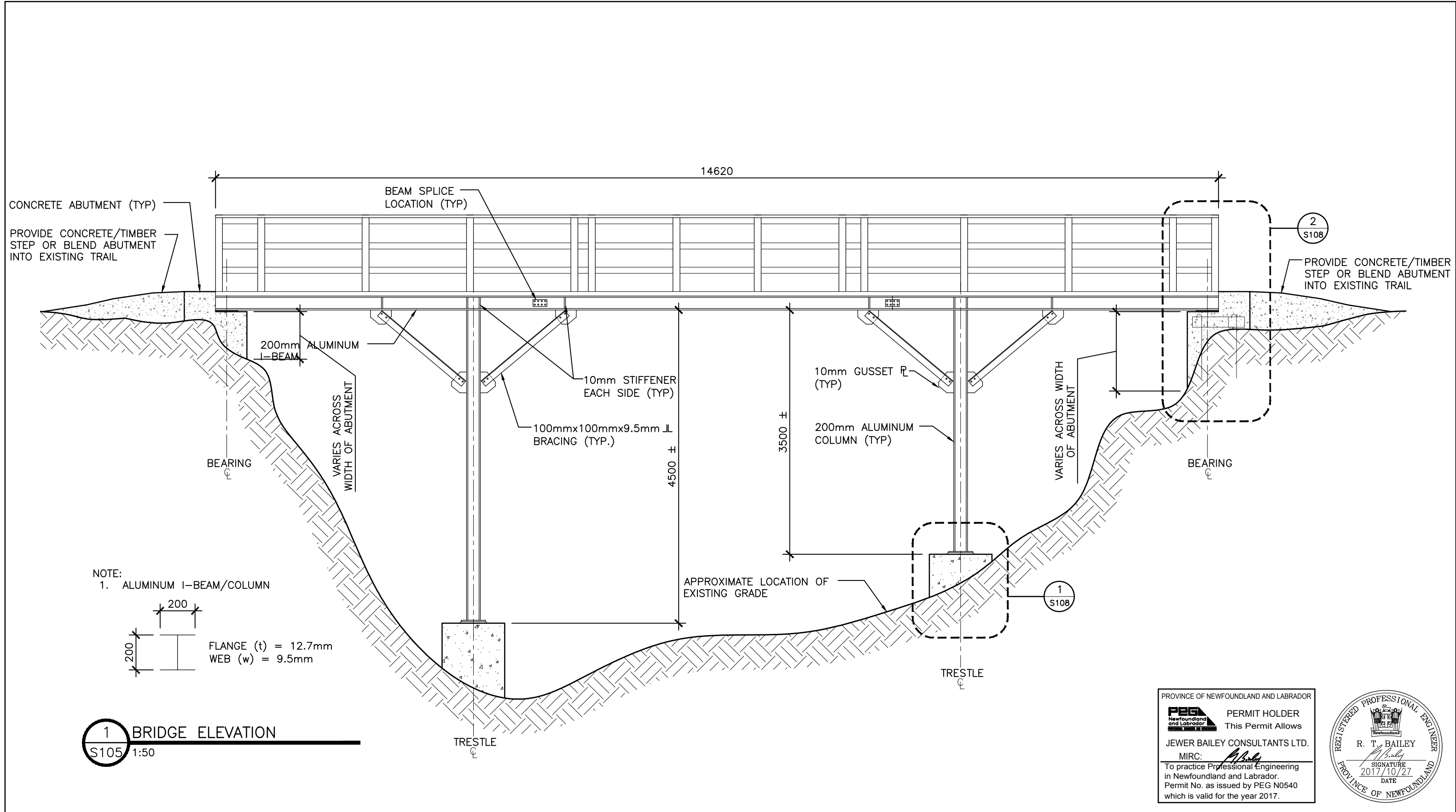
SCALE	AS NOTED
SHEET	S104



NOTES:  
ALL BRIDGE MATERIAL TO BE ALUMINUM,  
UNLESS OTHERWISE SPECIFIED

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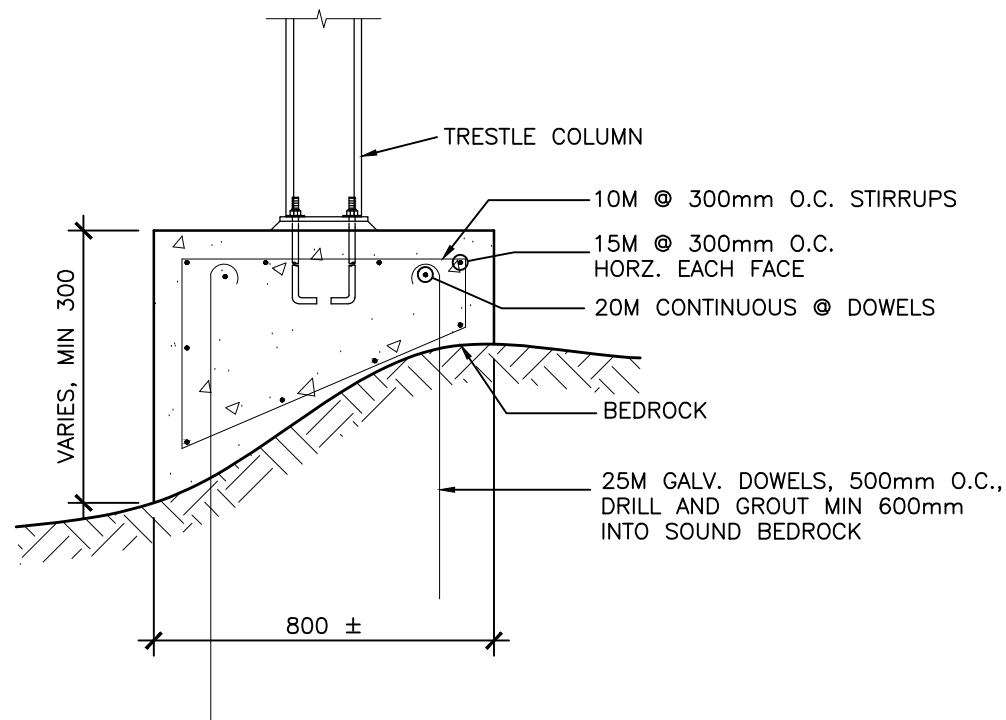
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							DATE OCT. 2017	SHEET <b>S105</b>
				4	ISSUED FOR TENDER	27/10/2017	DESIGNED RB	
				3	ISSUED FOR 100% REVIEW	18/10/2017		
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NO.		REVISION		MM/DD/YY				



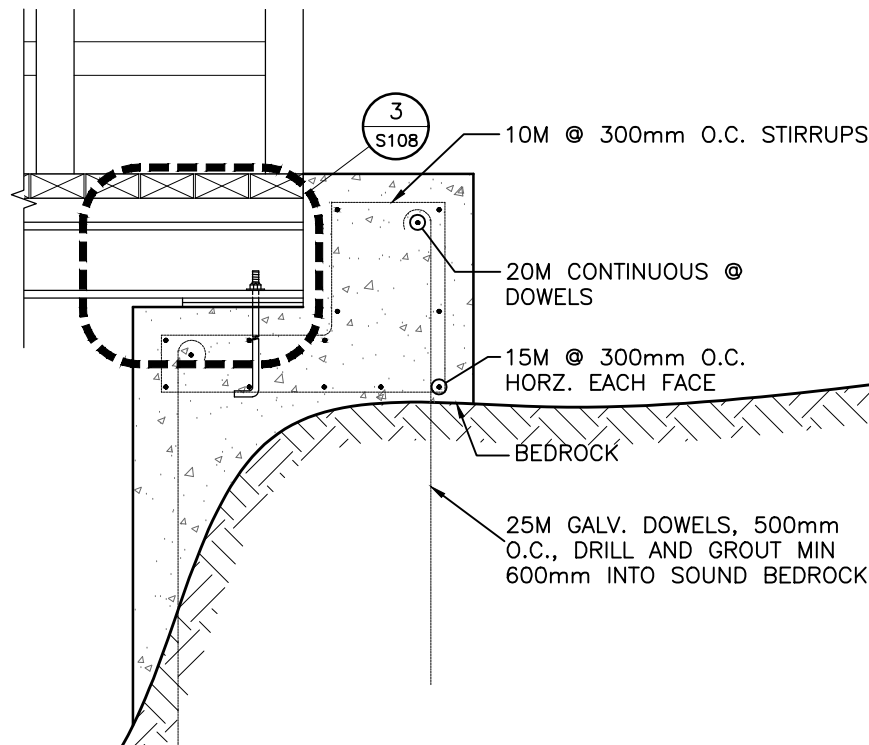
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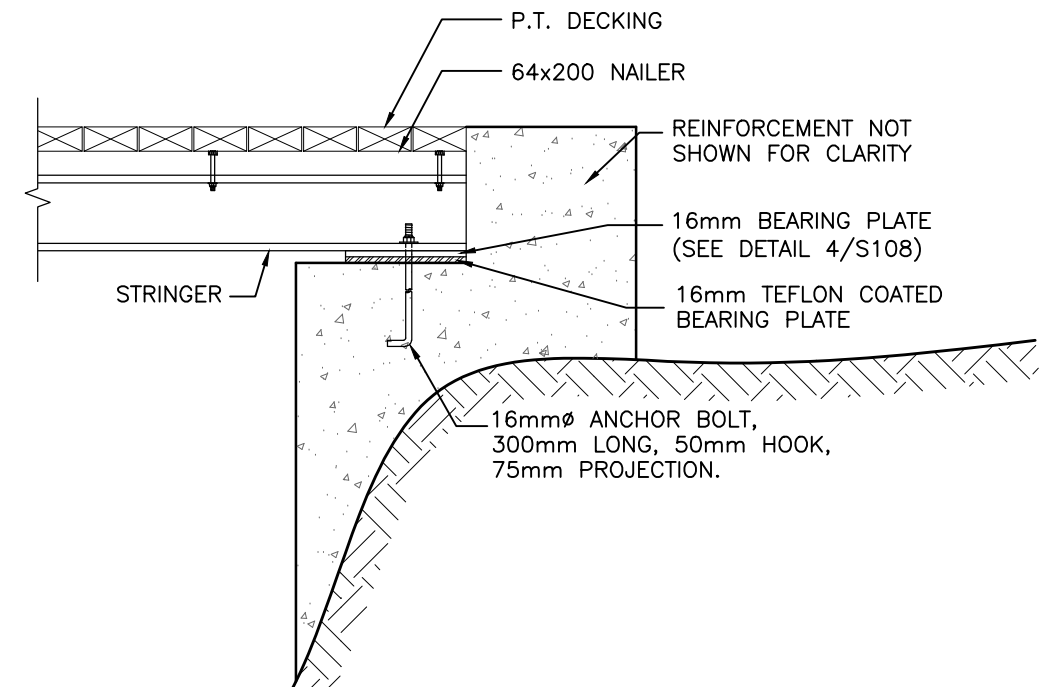




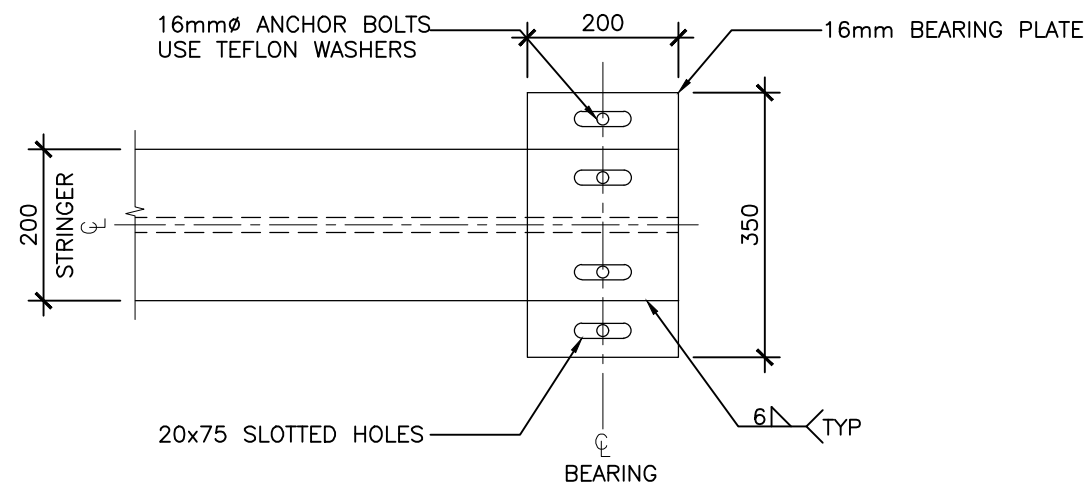
**1 TRESTLE FOUNDATION**  
S104/S106 1:20



**2 ABUTMENT DETAIL**  
S104/S106 1:20



**3 BEARING DETAIL**  
S108 1:20



**4 STRINGER BEARING-FREE END (BOTH ENDS)**  
S108 1:10

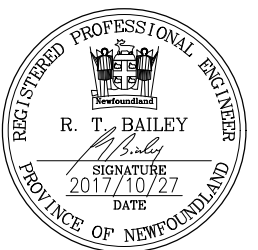
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PROJECT

**NORTH HEAD TRAIL  
RECAPITILAZTION**

DRAWING

**BRIDGE  
TYPICAL  
DETAILS**

4	ISSUED FOR TENDER	27/10/2017
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SCALE  
AS NOTED

SHEET  
**S108**