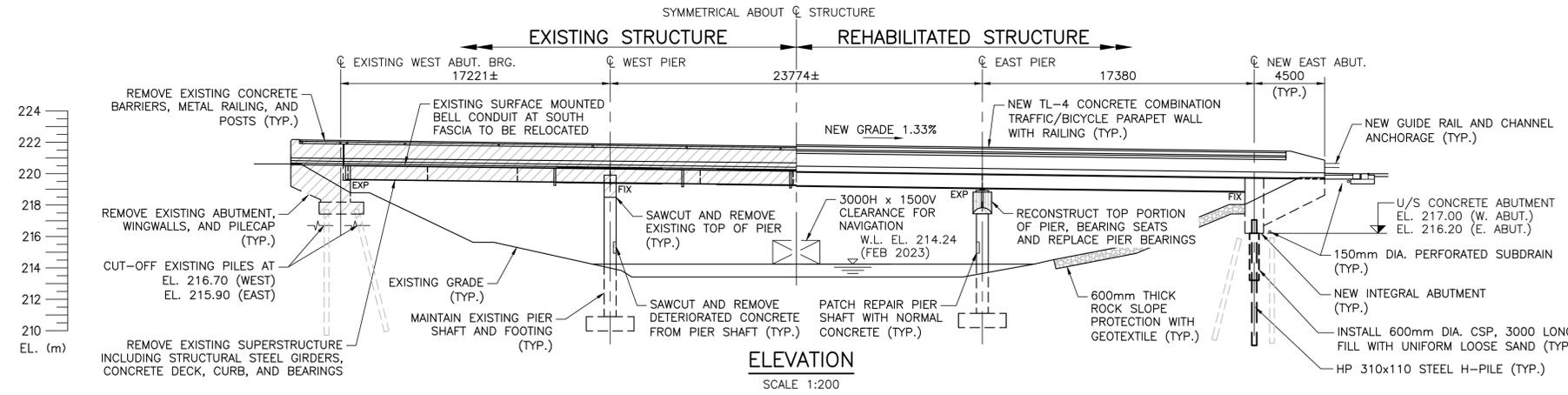
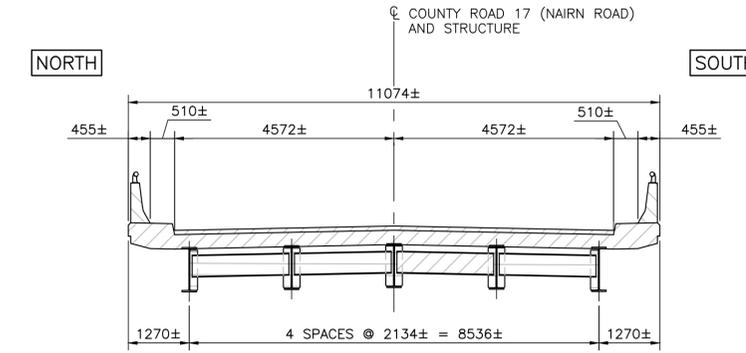


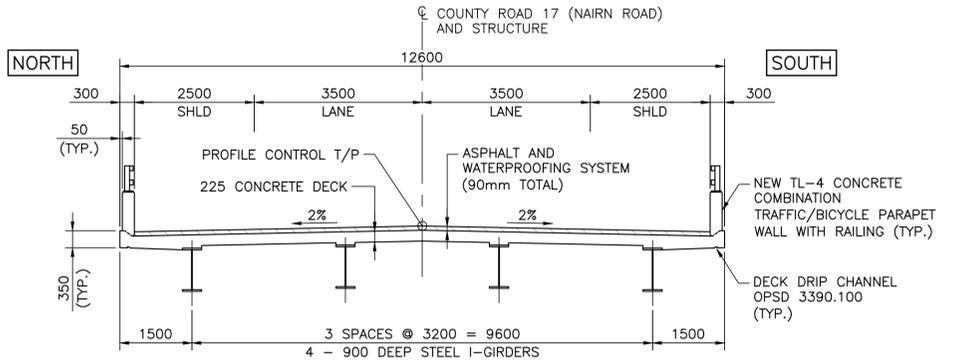
PLAN
SCALE 1:200



ELEVATION
SCALE 1:200

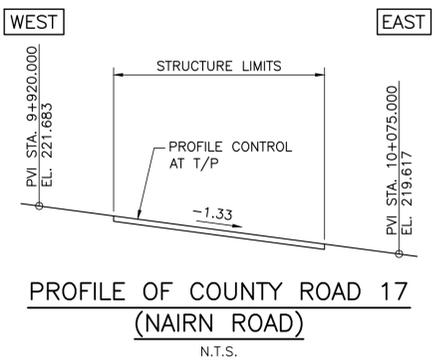


1 EXISTING SECTION
SCALE 1:75



2 REHABILITATED SECTION
SCALE 1:75

| DESIGNATED SUBSTANCE (ONTARIO REGULATION NUMBER) | LOCATION |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| LEAD 843/90 | EPOXY COATED REINFORCEMENT IN MAINTENANCE CURBS, BARRIERS, AND EXPANSION JOINT CONCRETE END DAMS MAY CONTAIN LEAD |



PROFILE OF COUNTY ROAD 17 (NAIRN ROAD)
N.T.S.

GENERAL NOTES

- DESIGN CODE: CSA S6-19 CHBDC
- CLASS OF CONCRETE**
- 35 MPa UNLESS OTHERWISE NOTED (CSA A23.1 EXPOSURE CLASS C-1)
- CLEAR COVER TO REINFORCING STEEL**
- | | |
|----------------------------------|---------|
| TOP OF DECK | 70±20mm |
| BOTTOM OF DECK | 40±10mm |
| REMAINDER UNLESS OTHERWISE NOTED | 70±20mm |
- PROVIDE 20mm CHAMFER AT ALL EXPOSED EDGES.
- REINFORCING STEEL**
- REINFORCING STEEL SHALL BE GRADE 400W.
- UNLESS SHOWN OTHERWISE, TENSION LAP SPLICES SHALL BE CLASS B.
- BAR HOOKS SHALL HAVE STANDARD HOOK DIMENSIONS USING MINIMUM BEND DIAMETERS, WHILE STIRRUPS AND TIES SHALL HAVE MINIMUM HOOK DIMENSIONS. ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL STANDARD DRAWING SS12-1, UNLESS INDICATED OTHERWISE.
- BAR MARKS WITH PREFIX 'S' DENOTE STAINLESS STEEL BARS.
- STAINLESS STEEL SHALL BE 316LN OR DUPLEX 2205 AND HAVE A MINIMUM YIELD STRENGTH OF 500 MPa, UNLESS OTHERWISE SPECIFIED.
- GLASS FIBRE REINFORCED POLYMER (GFRP)**
- GLASS FIBRE REINFORCED POLYMER REINFORCING BARS SHALL BE GRADE III AS SPECIFIED IN THE CONTRACT DRAWINGS. THE NOMINAL DIAMETER TENSILE MODULUS OF ELASTICITY AND GUARANTEED MINIMUM TENSILE STRENGTH SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- BAR MARKS WITH THE PREFIX 'G' DENOTE GRADE III FIBRE REINFORCED POLYMER BARS.

CONSTRUCTION NOTES

- THE CONTRACTOR SHALL ESTABLISH THE BEARING PEDESTAL ELEVATIONS BY DEDUCTING THE ACTUAL BEARING THICKNESS FROM THE TOP OF BEARING ELEVATIONS. IF THE ACTUAL BEARING THICKNESSES ARE DIFFERENT FROM THOSE GIVEN WITH THE BEARING DESIGN DATA, THE CONTRACTOR SHALL ADJUST THE REINFORCING STEEL TO SUIT.
- BACKFILL SHALL NOT BE PLACED BEHIND THE ABUTMENTS UNTIL THE DECK SLAB IS IN PLACE AND HAS REACHED 70% OF ITS DESIGN STRENGTH.
- BACKFILL SHALL BE PLACED SIMULTANEOUSLY BEHIND BOTH ABUTMENTS KEEPING THE HEIGHT OF THE BACKFILL APPROXIMATELY THE SAME. AT NO TIME SHALL THE DIFFERENCE IN ELEVATION BE GREATER THAN 500mm.
- CONSTRUCT ABUTMENT AND WINGWALLS TO THE BEARING SEAT ELEVATIONS. THE CONTRACTOR SHALL SUPPLY TEMPORARY LATERAL BRACING OF THE ABUTMENT, FORMWORK AND LATERAL BRACING SHALL NOT BE REMOVED UNTIL CONCRETE HAS REACHED 70% OF IT'S SPECIFIED 28-DAY STRENGTH.
- NO BACKFILL SHALL BE PLACED BEHIND THE ABUTMENTS UNTIL DECK CONCRETE HAS REACHED 70% OF ITS DESIGN STRENGTH.
- ALL EXPOSED EDGES TO HAVE 20mm CHAMFER UNLESS OTHERWISE NOTED.
- NO IN-WATER WORK WILL BE PERMITTED. CONTRACTOR SHALL PROVIDE ACCESS TO PIERS USING TEMPORARY WORK BRIDGE SUPPORTED ON THE SIDE OF THE EXISTING PIERS (OR APPROVED EQUAL) IF WATER LEVEL IN THE AUSABLE RIVER IMPEDES DRY ACCESS TO THE PIERS.
- CONTRACTOR SHALL MEASURE AND SURVEY EXISTING PIERS FOR THE PREPARATION OF THE REINFORCING STEEL AND GIRDER SHOP DRAWINGS.
- SAWCUTS FOR PARTIAL DEPTH PATCH REPAIRS SHALL BE 25mm DEEP OR TO THE FIRST LAYER OF REINFORCING STEEL, WHICHEVER IS LESS.

APPLICABLE STANDARD DRAWINGS

- | | |
|---------------|-----------------------------------------------------------------------------------------------------------------|
| OPSD-3101.150 | WALLS-ABUTMENT, BACKFILL MINIMUM GRANULAR REQUIREMENT |
| OPSD-3370.100 | DECK, WATERPROOFING HOT APPLIED ASPHALT MEMBRANE WITH PROTECTION BOARD |
| OPSD-3370.101 | DECK, WATERPROOFING HOT APPLIED ASPHALT MEMBRANE AT ACTIVE CRACKS GREATER THAN 2mm WIDE AND CONSTRUCTION JOINTS |
| OPSD-3390.100 | DECK DRIP CHANNEL |
| OPSD-3419.100 | BARRIERS AND RAILINGS, STEEL GUIDE RAIL AND CHANNEL ANCHORAGE |

LIST OF ABBREVIATIONS

- W.P. WORKING POINT
T/P TOP OF PAVEMENT

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

Conditions of Use
Verify elevations and/or dimensions on drawing prior to use. Report any discrepancies to Dillon Consulting Limited.
Do not scale dimensions from drawing.
Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Dillon Consulting Limited.



| NO. | ISSUED FOR TENDER | DATE | BY |
|-----|-------------------|----------|-----|
| 1 | ISSUED FOR TENDER | OCT 2023 | BTW |

| | | | |
|-------------------------------------------------------|---------------|-------------|-----|
| DESIGN | BTW | REVIEWED BY | JMA |
| DRAWN | RJD | CHECKED BY | BTW |
| DATE | OCT. 18, 2023 | | |
| SCALE | AS SHOWN | | |
| NAINR BRIDGE OVER AUSABLE RIVER PROJECT NO. M-K-23 | | | |
| GENERAL ARRANGEMENT | | | |
| PROJECT NO. | 21-2363 | | |
| SHEET NO. | S1 | | |

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