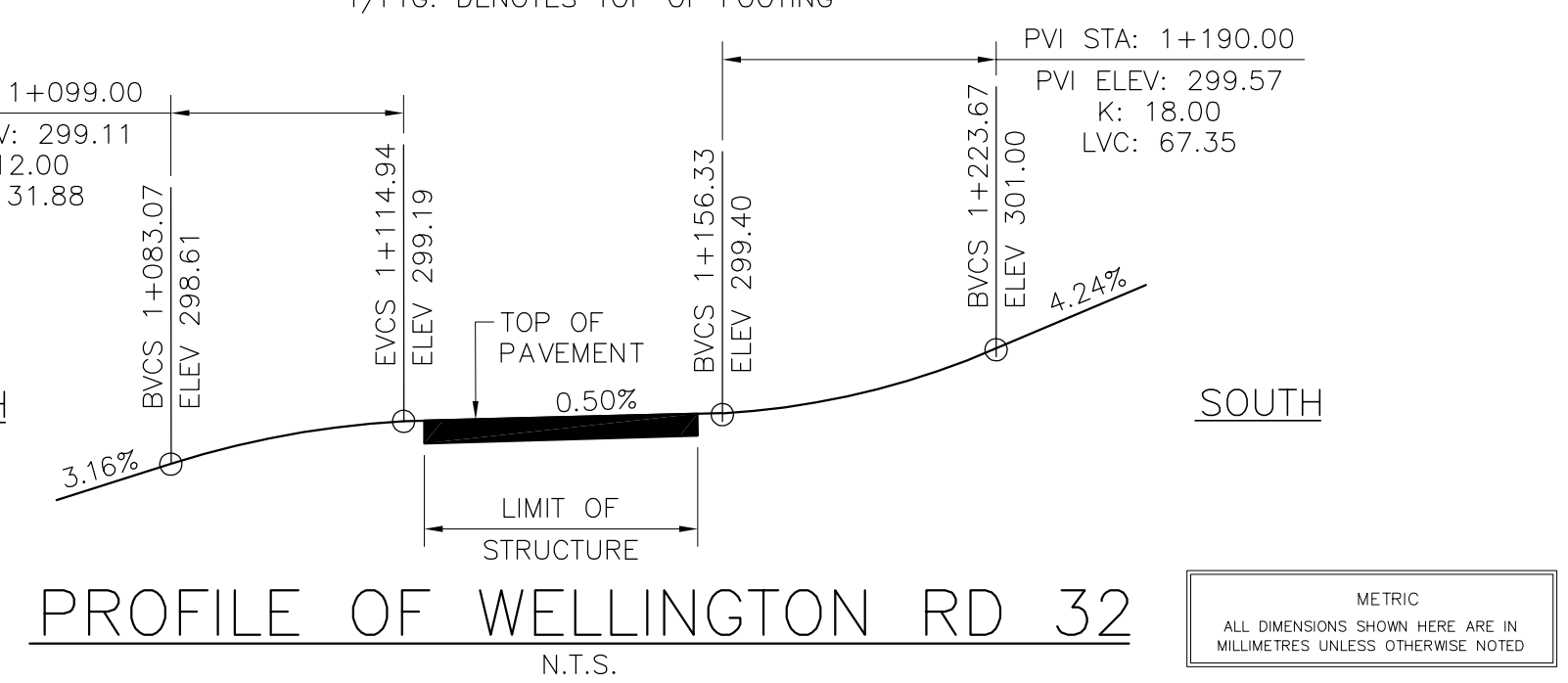
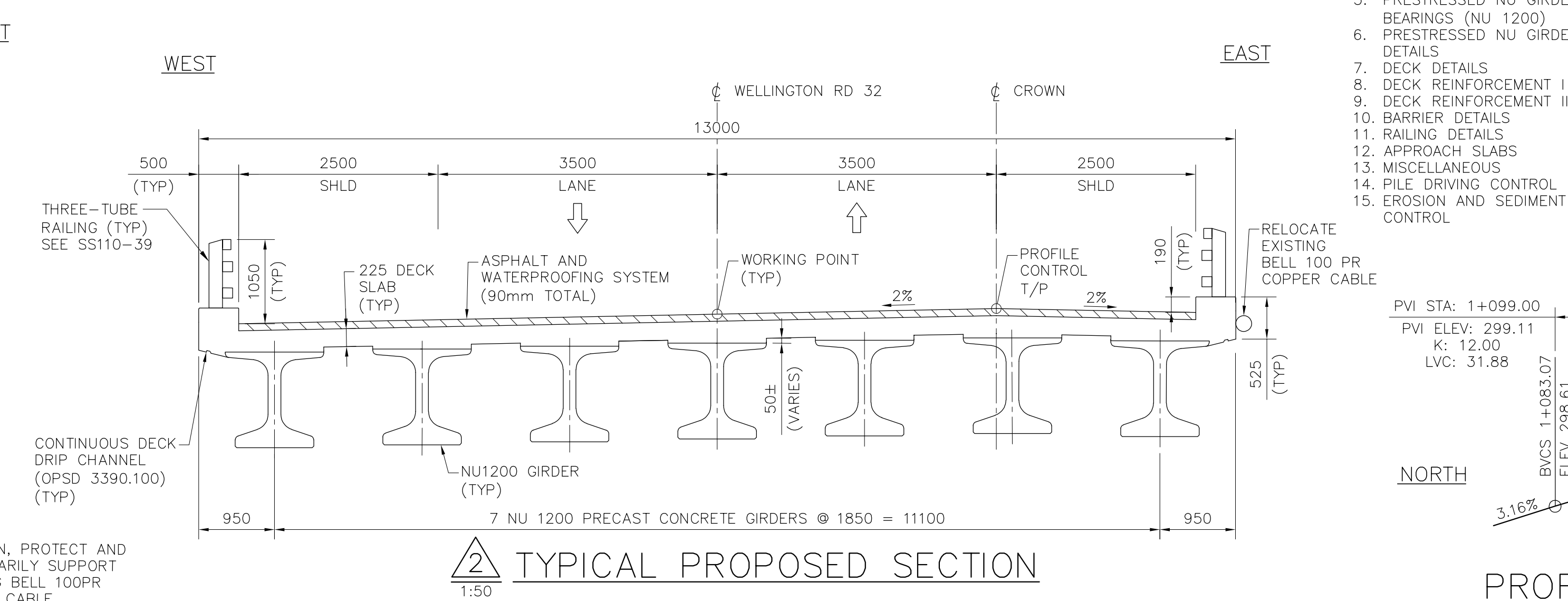
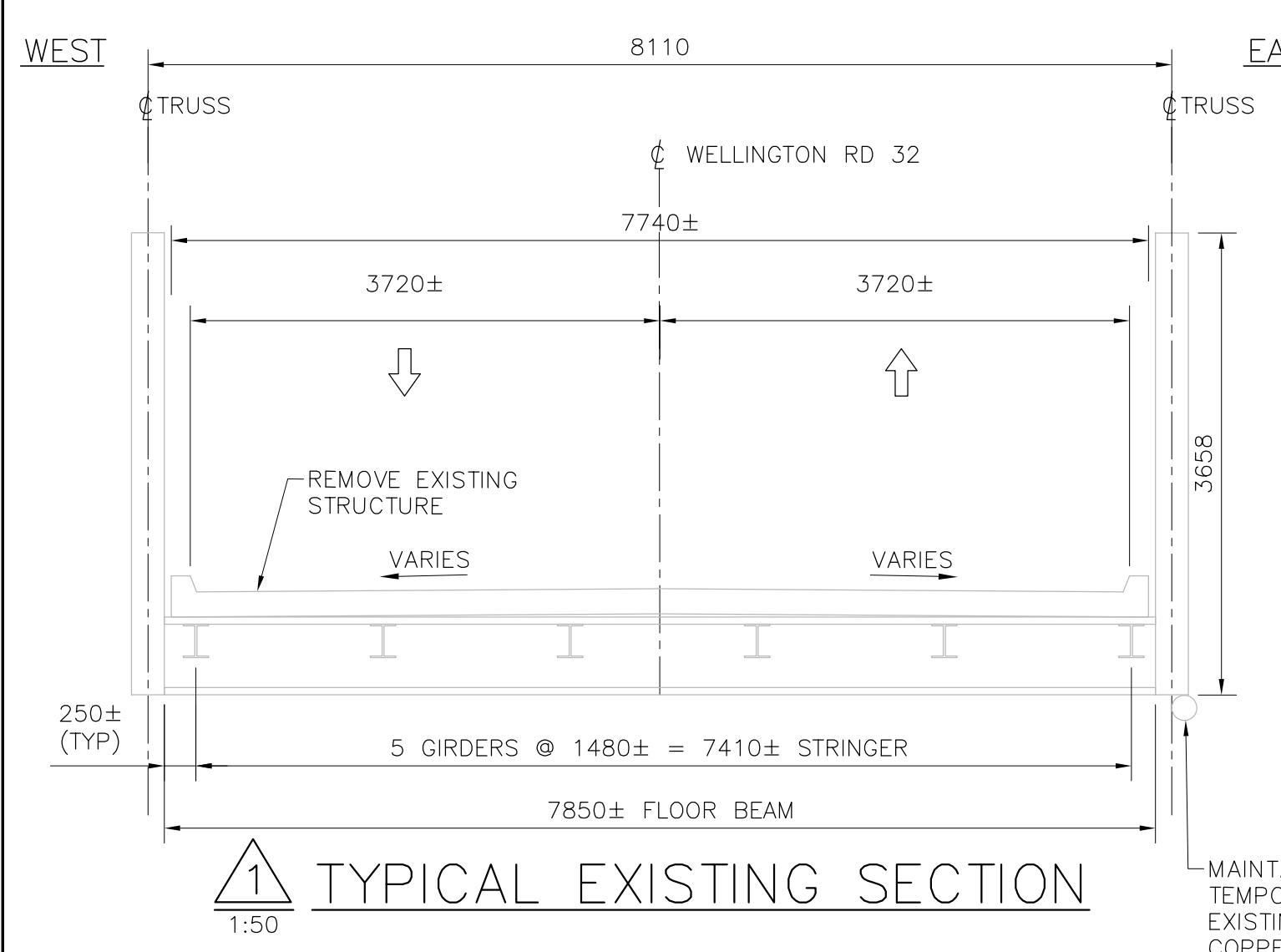
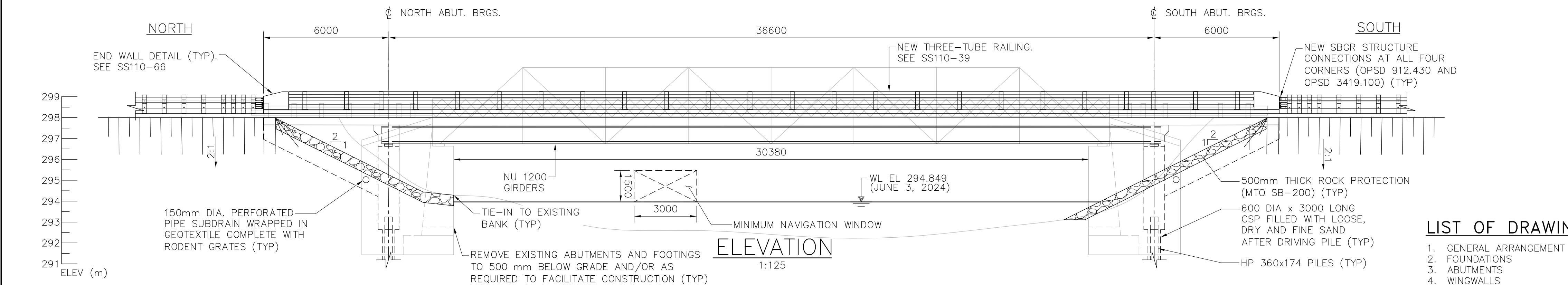
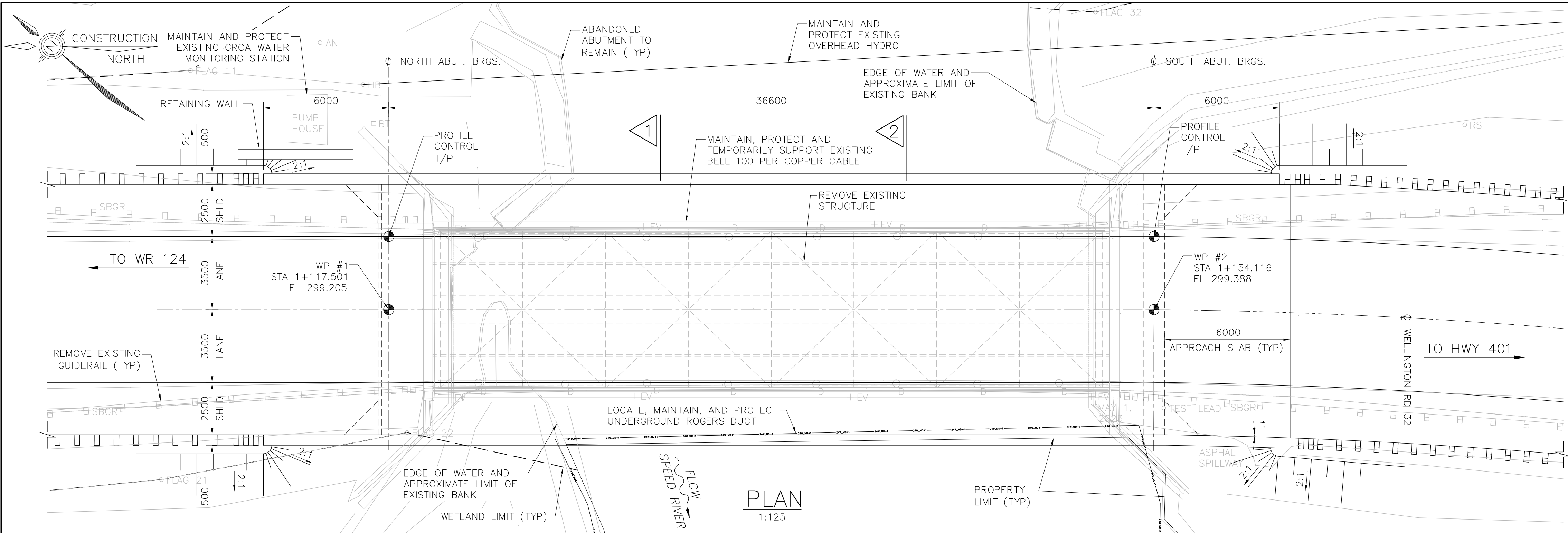


Appendix I

Preliminary General Arrangement



GENERAL NOTES:

DESIGN CODE:
CHBDC 2025 CAN/CSA S6-25 LIVE LOAD: CL-625-ONT

CLASS OF CONCRETE:
ALL CONCRETE UNLESS OTHERWISE NOTED 35 MPa AT 28 DAYS.
CLASS C-1 PER CSA 23.1

CLEAR COVER TO REINFORCING STEEL:
DECK:
TOP 70 ± 20
BOTTOM 40 ± 10
REMAINDER, UNLESS OTHERWISE NOTED: 70 ± 20

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE WELDABLE GRADE 500W.
2. UNLESS SHOWN OTHERWISE, TENSION LAP SPLICES FOR REINFORCING STEEL BARS SHALL BE CLASS B.
3. STAINLESS REINFORCING STEEL SHALL BE TYPE 316LN OR DUPLEX 2205 AND HAVE A MINIMUM YIELD STRENGTH OF 500MPa, UNLESS OTHERWISE SPECIFIED.
4. BAR MARKS WITH PREFIX 'S' DENOTE STAINLESS STEEL BARS.
5. 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 DRAWINGS SS12-1 AND SS12-2, UNLESS INDICATED OTHERWISE.

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL ESTABLISH THE BEARING SEAT ELEVATIONS BY DEDUCTING THE ACTUAL BEARING THICKNESSES FROM THE TOP OF BEARING ELEVATIONS. IF THE ACTUAL BEARING THICKNESSES ARE DIFFERENT FROM THOSE GIVEN WITH DRAWINGS, THE CONTRACTOR SHALL ADJUST THE REINFORCING STEEL TO SUIT.
2. NO BACKFILL SHALL BE PLACED BEHIND END OF DECK UNTIL DECK SLAB IS IN PLACE AND HAS REACHED 70% OF ITS DESIGN STRENGTH.
3. BACKFILLING 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.
4. CONSTRUCT ABUTMENTS AND WINGWALLS TO THE BEARING SEAT ELEVATIONS. THE CONTRACTOR SHALL SUPPLY TEMPORARY LATERAL BRACING FOR THE ABUTMENTS. FORMWORK AND LATERAL BRACING SHALL NOT BE REMOVED UNTIL CONCRETE HAS REACHED 70% OF ITS SPECIFIED STRENGTH.
5. SUBDRAINS SHALL BE EXTENDED TO THE LIMIT OF GRADING FROM SLOPE TO SLOPE AND INSTALLED COMPLETE WITH RODENT GRATING (TYPICAL).
6. ROCK PROTECTION (MTO WB-200) TO BE PLACED TO A MINIMUM DEPTH OF 500mm AS SHOWN. WB-200 LAYER TO BE TOP DRESSED WITH A 100mm THICK LAYER OF TABLE A SUBSTRATE.
7. ACCESS TO PRIVATE ENTRANCES WITHIN LIMITS OF CONSTRUCTIONS ZONE TO BE MAINTAINED AT ALL TIMES.
8. WELLINGTON ROAD 32 TO BE CLOSED AT THE BRIDGE FOR THE DURATION OF THE WORK.
9. LOCATIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. PROTECT EXISTING FACILITIES, STRUCTURES AND THE PUBLIC DURING DEMOLITION AND ERECTION OF THE NEW CONSTRUCTION, AS WELL AS FOR JOB SAFETY. JOB SAFETY, CONSTRUCTION AND DEMOLITION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONS TO MINIMIZE VIBRATION, NOISE, DUST AND DEBRIS IN ALL AREAS ADJACENT TO AREA OF DEMOLITION.
10. A COFFERDAM IS ANTICIPATED TO BE REQUIRED TO REMOVE THE EXISTING ABUTMENTS AND INSTALL ROCK PROTECTION. THE COFFERDAM SHALL BE DESIGNED BY THE CONTRACTOR (TO BE APPROVED BY GRCA) FOR AN ELEVATION 0.3 m ABOVE THE 2 YEAR FLOW WATER LEVEL.

- LIST OF DRAWINGS:**
1. GENERAL ARRANGEMENT
 2. FOUNDATIONS
 3. ABUTMENTS
 4. WINGWALLS
 5. PRESTRESSED NU GIRDERS AND BEARINGS (NU 1200)
 6. PRESTRESSED NU GIRDERS DETAILS
 7. DECK DETAILS
 8. DECK REINFORCEMENT I
 9. DECK REINFORCEMENT II
 10. BARRIER DETAILS
 11. RAILING DETAILS
 12. APPROACH SLABS
 13. MISCELLANEOUS
 14. PILE DRIVING CONTROL
 15. EROSION AND SEDIMENT CONTROL
- APPLICABLE STANDARD DRAWINGS:**
- OPSD - 0219.130 HEAVY DUTY SILT FENCE BARRIER
OPSD - 0219.240 DEWATERING TRAP
OPSD - 0219.260 TURBIDITY CURTAIN
OPSD - 0219.261 TURBIDITY CURTAIN, SEAM DETAIL
OPSD - 0912.430 GUIDE RAIL SYSTEM, STEEL BEAM STRUCTURE CONNECTION
OPSD - 3101.150 WALLS, ABUTMENT, BACKFILL MINIMUM GRANULAR REQUIREMENT
OPSD - 3102.100 WALLS, ABUTMENT, BACKFILL DRAIN
OPSD - 3190.100 WALLS, RETAINING AND ABUTMENT WALL DRAIN
OPSD - 3370.100 DECK, WATERPROOFING HOT APPLIED ASPHALT MEMBRANE WITH PROTECTION BOARD
OPSD - 3390.100 DECK DRIP CHANNEL
OPSD - 3419.100 BARRIERS AND RAILINGS STEEL GUIDE RAIL AND CHANNEL ANCHORAGE
OPSD - 3950.100 CONCRETE EXPANSION AND CONSTRUCTION JOINT ON STRUCTURE.

LIST OF ABBREVIATIONS:

WP DENOTES WORKING POINT
T/P DENOTES TOP OF PAVEMENT
T/FTG. DENOTES TOP OF FOOTING