



GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AND ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOURTH EDITION, DATED 2007, AND ITS LATEST REVISIONS. ALSO THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, SECOND EDITION 2004 AND ALL ITS INTERIMS.
2. THE BRIDGE IS DESIGNED FOR THE HL-93 LIVE LOAD.
3. DIMENSIONS SHOWN IN THE PLANS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 20 DEGREES CELSIUS, UNLESS NOTED OTHERWISE.
4. EXISTING SIGNS NOT REUSED SHALL REMAIN THE PROPERTY OF THE TOWN OF READSBORO AND SHALL BE STOCKPILED ON THE PROJECT SITE. THE TOWN ROAD FOREMAN, BARRY HOWES, SHALL BE NOTIFIED TO PICK UP THE SIGNS AT (802) 423-5730.
5. ITEM 529.15 "REMOVAL OF STRUCTURE" SHALL BE USED FOR REMOVAL OF THE EXISTING SUPERSTRUCTURE INCLUDING THE EXISTING SEWER LINE AND ANY PORTION OF THE ABUTMENTS AND WINGWALLS OUTSIDE THE LIMITS OF STRUCTURE EXCAVATION OR UNCLASSIFIED CHANNEL EXCAVATION. ABUTMENT NO. 2 SHALL BE REMOVED TO THE ELEVATION SHOWN ON THE PLANS AND ABUTMENT NO.1 IS TO BE REMOVED IN ITS ENTIRETY.
6. DURING CONSTRUCTION, TRAFFIC SHALL BE MAINTAINED ON A ONE-WAY TEMPORARY BRIDGE CONSTRUCTED DOWNSTREAM OF THE EXISTING STRUCTURE. THE TEMPORARY BRIDGE AND THE APPROACHES TO THE TEMPORARY BRIDGE SHALL BE PAVED WITH 75mm OF PAVEMENT. THE DESIGN OF THE TEMPORARY BRIDGE SHALL INCLUDE THE WEIGHT OF A TEMPORARY SEWER FORCE MAIN.
7. DURING CONSTRUCTION, THE DI AT 1+038.70 RT SHALL BE COVERED BY A STEEL PLATE DESIGNED TO PROTECT IT FROM THE TEMPORARY DETOUR. PAYMENT FOR THE DESIGN AND INSTALLATION OF THE PLATE SHALL BE INCLUDED IN THE COST OF ITEM 528.10 "ONE-WAY TEMPORARY BRIDGE".
8. A TEMPORARY SEWER FORCE MAIN SHALL BE ATTACHED TO THE TEMPORARY BRIDGE. THE DESIGN AND INSTALLATION OF THE TEMPORARY SYSTEM SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SECTION 628. THE SYSTEM SHALL BE THE SAME SIZE AND MAINTAIN THE SAME DESIGN FLOWS AS THE EXISTING SYSTEM. PAYMENT FOR THE TEMPORARY SEWER FORCE MAIN AND ANY PIPES, FITTINGS, ATTACHMENTS, TESTING AND ANY EXCAVATION REQUIRED TO BUILD A COMPLETE FUNCTIONING SYSTEM TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE COST OF ITEM 528.10 "ONE-WAY TEMPORARY BRIDGE".
9. THE REMOVAL AND REPLACEMENT OF THE CONCRETE WALKWAY AND WOODEN STAIRS AT STA 1+030.00 SHALL BE PAID FOR UNDER ITEM 900.645 SPECIAL PROVISION (REMOVE AND REPLACE RESIDENTIAL WALKWAY).

EARTHWORK AND RELATED ITEMS

10. THE AREA DISTURBED BY THE TEMPORARY DETOUR SHALL BE SEEDED AND MULCHED AFTER ALL FILL HAS BEEN REMOVED TO THE ORIGINAL GROUND SURFACE. THE COST OF THE SEED, FERTILIZER, AND MULCH WILL BE PAID FOR UNDER THE BID PRICE FOR THE RESPECTIVE ITEMS. TOP SOIL SHALL BE USED WHEN RESTORING THE LAWN FROM STA 1+031.65 - 1+043.57 RT.
11. CURRENTLY THERE IS AN INVASIVE WEED (JAPANESE KNOTWEED) ON THE SOUTHEAST CORNER OF THE PROJECT THAT THE TOWN DOES NOT WANT SPREAD. ALL EARTH DISTURBING EQUIPMENT SHALL BE WASHED BEFORE LEAVING THE SOUTHEAST CORNER OF THE PROJECT.
12. ALL VEGETATION AND TOP SOIL EXCAVATED FROM THE SOUTHEAST CORNER SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY. CLEAN FILL SHALL BE USED AS REPLACEMENT MATERIAL TO THE SATISFACTION OF THE RESIDENT ENGINEER.
13. "STONE FILL, TYPE IV" SHALL BE USED TO STABILIZE THE EXISTING STONE FILL OUTSIDE THE STONE FILL LIMITS SHOWN ON THE PLANS. SMALLER STONES SHALL BE USED TO FILL GAPS BETWEEN THE EXISTING LARGER STONES TO THE SATISFACTION OF THE RESIDENT ENGINEER. WORK SHALL BE WITHIN THE CONSTRUCTION LIMITS INDICATED ON THE PLANS.
14. "STONE FILL, TYPE I" SHALL BE USED FOR EROSION CONTROL AT THE DISCRETION OF THE RESIDENT ENGINEER.
15. THE CONTRACTOR WILL TAKE ALL PRECAUTIONS NECESSARY NOT TO DAMAGE EXISTING SEWER, WATER, AND DRAINAGE PIPES. ANY DAMAGE TO THESE ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR WITH NO EXTRA COMPENSATION.

STRUCTURAL STEEL

16. THE EXISTING STRUCTURAL STEEL IS PAINTED WITH A MATERIAL THAT MAY CONTAIN LEAD. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE REGULATIONS WHEN HANDLING AND WORKING WITH THIS STEEL. THE REMOVED STRUCTURAL STEEL IS THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE STATE, ITS OFFICERS, AND EMPLOYEES HARMLESS CONCERNING THE CONTRACTOR'S USE OR DISPOSITION OF THE REMOVED EXISTING STRUCTURAL STEEL.
17. STRUCTURAL STEEL SHALL BE AASHTO M 270MM/M270 GRADE 345W. MEMBERS DESIGNATED "CVN" IN THE PLANS SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH SUBSECTION 714.01 OF THE STANDARD SPECIFICATIONS.
18. ANY CONNECTIONS NOT DETAILED ON THE PLANS SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED TO THE STRUCTURES ENGINEER FOR APPROVAL.
19. AFTER SUPERSTRUCTURE STEEL HAS BEEN ERECTED, ELEVATIONS ALONG THE TOP OF THE GIRDERS SHALL BE TAKEN AS DIRECTED BY THE RESIDENT ENGINEER. THESE ELEVATIONS SHALL BE USED IN DETERMINING FINISHED GRADES.
20. FLEMING BRACKETS OR SIMILAR FALSEWORK SHALL BE DESIGNED BY THE CONTRACTOR, BUT SHALL BE SPACED A MAXIMUM OF 1.2 METERS.
21. ANY BOLT HOLES IN THE WEBS OF FASCIA GIRDERS NOT OTHERWISE FILLED SHALL BE FILLED WITH BUTTON HEAD OR HEX HEAD BOLTS. THE BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH SUBSECTION 506.19 OF THE STANDARD SPECIFICATIONS.

PAINTING

22. THE BRIDGE RAIL AND APPROACH GUARDRAIL SHALL BE PAINTED BLACK ACCORDING TO SECTION 513. THE "W" BEAM SECTIONS OF RAIL, STEEL OFFSET BLOCKS, BOX BEAM RAIL AND SUPPORT ANGLES, AND POSTS SHALL BE PAINTED TO FEDERAL STANDARD NO. 595, COLOR CHIP #27038.

CONCRETE

23. THE CONCRETE USED FOR THE BRIDGE DECK AND CURBS SHALL BE PAID FOR UNDER ITEM 501.33 "CONCRETE, HIGH PERFORMANCE CLASS A". THE APPROACH SLABS AND SUBSTRUCTURE CONCRETE SHALL BE PAID FOR UNDER ITEM 501.34 "CONCRETE, HIGH PERFORMANCE CLASS B". THE CONCRETE USED FOR THE THRUST BLOCKS SHALL BE PAID FOR UNDER ITEM 541.25 "CONCRETE, CLASS B".
24. NO CONCRETE IN THE ABUTMENTS OR WINGWALLS SHALL BE PLACED ABOVE THE BRIDGE SEAT ELEVATIONS UNTIL THE GIRDERS HAVE BEEN PLACED AND THE FINISHED GRADE OF THE DECK HAS BEEN DETERMINED.
25. IN ACCORDANCE WITH SUBSECTION 506.23(A) OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION AND AS DIRECTED BY THE RESIDENT ENGINEER, THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT ALL SUBSTRUCTURE CONCRETE FROM STAINING DUE TO OXIDE FORMATION ON THE STRUCTURAL STEEL PRIOR TO PLACEMENT OF THE DECK. THESE MEASURES WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO ITEM 501.34 "CONCRETE, HIGH PERFORMANCE CLASS B". ANY SUCH STAINING THAT OCCURS PRIOR TO DECK PLACEMENT SHALL BE REMOVED AT NO ADDITIONAL COST TO THE STATE.
26. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 25mm X 25mm.
27. ITEM 514.10 "WATER REPELLENT, SILANE" SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES, EXCEPT THE UNDERSIDE OF THE DECK BETWEEN DRIP NOTCHES. ALL SURFACES SHALL BE CLEANED BEFORE THE WATER REPELLENT IS APPLIED.
28. REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE:
 SPACING: +/- 25 mm
 CLEARANCE: +/- 6mm

TRAFFIC CONTROL

29. TEMPORARY APPROACH TRAFFIC SIGNS SHALL BE LOCATED ACCORDING TO VERMONT STATE STANDARDS E-107 AND E-100A AND THE 2003 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
30. FULL ACCESS TO ALL SIDE ROADS AND DRIVES WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
31. FOR ADDITIONAL SIGNING INSTRUCTIONS SEE STANDARDS E-100, E-100A, E-101, E-102A, E-106, AND E-142.

32. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL TEMPORARY SIGNS ON AND OFF-PROJECT ALONG WITH BARRICADES AS SHOWN IN THE PLANS AND AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 641.10 "TRAFFIC CONTROL".
33. THE CONTRACTOR SHALL COVER OR REMOVE ANY SIGNS THAT CONTRADICT TEMPORARY TRAFFIC CONTROL SIGNS. ALL SIGNS REMOVED OR COVERED BY THE CONTRACTOR SHALL BE REPLACED OR UNCOVERED BY THE CONTRACTOR WHEN THE TRAFFIC CONTROL PLAN IS DISASSEMBLED. PAYMENT FOR REMOVAL AND REPLACEMENT, COVERING AND UNCOVERING OF SIGNS AND PLACEMENT AND REMOVAL OF TEMPORARY OVERLAYS SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL". ANY DAMAGE TO EXISTING SIGNS BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR WITH NO EXTRA COMPENSATION.

PROJECT: READSBORO	PROJECT NO. : BRO 1444 (25)
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