

#### GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011 AND ITS LATEST REVISIONS, THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FIFTH EDITION, DATED 2010 AND ITS LATEST REVISIONS AND THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS THIRD EDITION, DATED 2010 AND ITS LATEST REVISIONS.
2. BRIDGE #27 AND BRIDGE #28 WERE DESIGNED FOR THE HL-93 LIVE LOADS.
3. ALL DIMENSIONS SHOWN IN THE PLANS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES FAHRENHEIT, UNLESS OTHERWISE NOTED.
4. THE CATTLE PASS SHALL BE CONSTRUCTED PRIOR TO ANY WORK ON BRIDGE #27 AND BRIDGE #28.
5. THE DETAILS AND DIMENSIONS SHOW ON THE PROJECT SPECIFIC PLAN AND DETAIL SHEETS TAKE PRECEDENCE OVER THE MORE GENERAL "STRUCTURES DETAIL SHEETS" PROVIDED AFTER THE PLAN SHEETS.
6. ADDITIONAL FENCING MAY BE REQUIRED TO HELP IN MAINTAINING FULL PROTECTION OF THE CATTLE. PLACEMENT OF ADDITIONAL FENCE SHALL DETERMINED BY THE ENGINEER WITH INPUT FROM THE PROPERTY OWNER. THE FENCE SHALL BE SIMILAR IN KIND TO THE EXISTING CATTLE FENCE. PAYMENT FOR ADDITIONAL FENCING WILL BE INCIDENTAL TO ITEM 620.50 REMOVING AND RESETTING FENCE.

#### EARTHWORK AND RELATED ITEMS

7. THE CONTRACTOR MAY SUBSTITUTE SUBBASE OF DENSE GRADED CRUSHED STONE FOR THE SAND BORROW SHOWN ON THE PLANS. IF PLACEMENT OF SUBBASE IS IN LIEU OF SAND BORROW, PLACE A GEOTEXTILE MEETING THE REQUIREMENTS OF SECTION 649 FOR "GEOTEXTILE FOR ROAD BED SEPARATOR" BETWEEN THE SUBGRADE AND THE SUBBASE MATERIAL. ANY SUBSTITUTED MATERIAL WILL BE PAID UNDER ITEM 203.31, "SAND BORROW". ALL COSTS ASSOCIATED WITH THE INSTALLATION OF THE GEOTEXTILE FOR ROADBED SEPARATOR SHALL BE INCIDENTAL TO ITEM 203.31, "SAND BORROW".
8. THE STONE FILL UNDER THE BRIDGES AS SHOWN IN THE PLANS SHALL BE PLACED BEFORE THE GIRDERS ARE SET.
9. THE GEOGRID USED FOR THE REINFORCED SOIL SLOPE SHALL HAVE A MINIMUM ULTIMATE TENSILE STRENGTH OF 3050 LB/FT.
10. PAYMENT FOR ITEM # 900.675, SPECIAL PROVISION (REINFORCED SOIL SLOPE) SHALL INCLUDE ALL GRANULAR BORROW AND GEOTEXTILE UNDER STONE FILL REQUIRED TO COMPLETE THE WORK.
11. ITEM 529.15 "REMOVAL OF STRUCTURE" SHALL INCLUDE:
  - THE REMOVAL OF THE EXISTING SUPERSTRUCTURE AND ANY PORTION OF THE EXISTING ABUTMENTS AND PIERS NOT REMOVED UNDER STRUCTURE EXCAVATION OR UNCLASSIFIED CHANNEL EXCAVATION.
  - THE CONCRETE PIERS SHALL BE REMOVED OR CUT OFF AT STREAM BED ELEVATION.

#### STRUCTURAL STEEL

12. ALL NEW STRUCTURAL STEEL SHALL CONFORM TO AASHTO M 270M/M 270, GRADE 50, WEATHERING STEEL.
13. CHARPY V-NOTCH TEST: TEST STRUCTURAL STEEL MEMBERS DESIGNATED "CVN" IN THE PLANS IN ACCORDANCE WITH SUBSECTION 714.01.
14. BOLTS FOR ALL BOLTED FIELD CONNECTIONS SHALL BE 7/8 INCH DIAMETER HIGH STRENGTH BOLTS IN 15/16 INCH DIAMETER HOLES UNLESS OTHERWISE NOTED.
15. CONNECTIONS NOT SHOWN IN THE PLANS SHALL BE DETAILED BY THE FABRICATOR IN THE FABRICATION DRAWINGS AND SUBMITTED TO THE RESIDENT ENGINEER FOR APPROVAL.
16. AFTER THE SUPERSTRUCTURE STEEL HAS BEEN ERECTED, ELEVATIONS ALONG THE TOP OF GIRDERS SHALL BE TAKEN UNDER DIRECTION OF THE RESIDENT ENGINEER FOR USE IN DETERMINING THE FINAL GRADE AND HAUNCH DEPTHS.
17. CONCRETE PORTIONS OF ABUTMENTS AND WINGWALLS ABOVE ADJACENT BRIDGE SEAT ELEVATIONS SHALL NOT BE PLACED UNTIL FINISH GRADES HAVE BEEN DETERMINED BY THE ENGINEER.

18. FLEMING BRACKETS OR SIMILAR FALSE WORK: SPACE FLEMING BRACKETS OR SIMILAR FALSEWORK AS REQUIRED BY DESIGN WITH A MAXIMUM SPACING OF 4'-0". THE BRACKETS SHALL BEAR NEAR THE BOTTOM FLANGE AND IN NO CASE SHALL THEY BEAR ABOVE THE BOTTOM QUARTER OF THE WEB.

19. HOLES IN WEB: FILL ANY BOLT HOLES IN THE WEBS OF THE BEAMS NOT OTHERWISE FILLED WITH BUTTON HEAD OR HEX HEAD BOLTS MEETING AASHTO M164 TYPE I. TIGHTEN THE BOLTS IN ACCORDANCE WITH SUBSECTION 506.19 OF THE STANDARD SPECIFICATIONS.

20. GIRDER WEBS AND CROSS FRAMES/DIAPHRAGMS SHALL BE PLUMB IN THE FINAL POSITION.

#### CONCRETE

21. INDIVIDUAL POURED SEGMENTS ARE TO BE PLACED IN ONE CONTINUOUS POUR WITH A MAXIMUM DURATION OF EIGHT HOURS. IF CIRCUMSTANCES BEYOND THE CONTRACTOR'S CONTROL PREVENT THIS FROM BEING ACCOMPLISHED, A CONSTRUCTION JOINT SHALL BE USED BETWEEN ADJACENT POURS. A MINIMUM 96 HOUR DELAY BETWEEN ADJACENT POURS SHALL BE OBSERVED.

22. WATER REPELLENT, SILANE SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES, EXCEPT THE UNDERSIDE OF THE DECK BETWEEN DRIP NOTCHES.

23. ALL REINFORCING STEEL IN OR EXTENDING INTO CONCRETE, HPC A SHALL BE LEVEL II UNLESS OTHERWISE NOTED. REINFORCING STEEL WILL BE DENOTED AS LEVEL II ON THE REINFORCING STEEL SHEET BY PLACING ".2" AT THE END OF THE BAR MARK. (EX: 1A501.2). ALL OTHER REINFORCING STEEL SHALL BE LEVEL I. PAYMENT FOR REINFORCING STEEL WILL BE MADE UNDER THE APPROPRIATE SECTION 507 CONTRACT ITEM.

PROJECT NAME: ROYALTON  
PROJECT NUMBER: BRS 0147 (13)

FILE NAME: /Structures/86e055qty.dgn PLOT DATE: 08-OCT-2013  
PROJECT LEADER: C. CARLSON DRAWN BY: D. PETERSON  
DESIGNED BY: D. PETERSON CHECKED BY: C. CARLSON  
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