

STEEL

19. AFTER ALL PAVEMENT AND MEMBRANE ARE REMOVED BUT PRIOR TO THE REMOVAL OF THE EXISTING CONCRETE DECK, THE CONTRACTOR SHALL TAKE TOP OF DECK ELEVATIONS ALONG THE CENTERLINE OF EACH BEAM AT TENTH POINTS FROM CENTERLINE TO CENTERLINE OF BEARING. AFTER THE EXISTING CONCRETE DECK HAS BEEN REMOVED, THE CONTRACTOR SHALL TAKE ELEVATIONS ALONG THE TOP OF EACH BEAM AT TENTH POINTS FROM CENTERLINE TO CENTERLINE OF BEARING. THE TOP OF DECK AND TOP OF BEAM ELEVATIONS SHALL THEN BE SENT TO THE ENGINEER FOR USE IN DETERMINING THE FINAL PROFILE AND HAUNCH DEPTHS. THE CONTRACTOR SHALL EXPECT 3 WORKING DAYS FOR VTRANS TO PREPARE THE REVISED PROFILE AND HAUNCH DEPTH CALCULATIONS.
20. 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. ANY REMOVED STRUCTURAL STEEL, IF APPLICABLE, IS THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE STATE AND ITS OFFICERS AND EMPLOYEES HARMLESS CONCERNING THE CONTRACTOR'S USE OR DISPOSITION OF THE REMOVED EXISTING STRUCTURAL STEEL.
21. NEW BRIDGE SCUPPERS WILL BE PROVIDED AT THE SAME LOCATIONS AS THE REMOVED SCUPPERS. THE NEW SCUPPERS WILL BE PAID FOR UNDER ITEM 900.620, "SPECIAL PROVISION (BRIDGE SCUPPER)".

REINFORCED CONCRETE

22. ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR CONCRETE, HIGH PERFORMANCE CLASS A. THE CONTRACTOR SHALL PROVIDE TESTING EQUIPMENT FOR CONCRETE IN ACCORDANCE WITH SUBSECTION 631.05.
23. ALL REINFORCING STEEL SHALL BE LEVEL I - EPOXY COATED AND MEET THE REQUIREMENTS OF SECTION 507. A REINFORCING STEEL SCHEDULE AND SHOP DRAWINGS MEETING THE REQUIREMENTS OF SUBSECTION 105.03 SHALL BE SUBMITTED. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 507.11, "REINFORCING STEEL, LEVEL I".
24. TEST BARS SHALL BE PROVIDED IN ACCORANCE WITH THE "VERMONT AGENCY OF TRANSPORTATION MATERIAL SAMPLING MANUAL" AVAILABLE ON THE AGENCY WEBSITE. A MINIMUM OF TWO TEST SECTIONS ARE REQUIRED FOR EACH SIZE, BRAND, AND GRADE OR TYPE OF REINFORCING. SEE THE MANUAL FOR ACCEPTABLE DIMENSIONS OF TEST SECTIONS. EXTRA BARS FOR TESTING PURPOSES SHALL BE SPECIFIED IN THE WORKING DRAWING SUBMITTAL.
25. EPOXY COATED REINFORCING STEEL PROJECTING FROM THE DECK DURING CONSTRUCTION SHALL BE COVERED WITH CANVAS OR OTHER SUITABLE MATERIAL THAT WILL EFFECTIVELY PROTECT IT AGAINST DAMAGE FROM SUNLIGHT AND WEATHER EXPOSURE UNTIL IT WILL BE ENCASED IN CONCRETE. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 507.11, "REINFORCING STEEL, LEVEL I".
26. WATER REPELLENT, SILANE SHALL BE APPLIED TO ALL EXPOSED CONCRETE BRIDGE DECK SURFACES EXCEPT THE UNDERSIDE OF THE DECK BETWEEN THE DRIP NOTCHES. THIS WORK WILL BE PAID FOR UNDER ITEM 514.10, "WATER REPELLENT, SILANE".
27. ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE "CONCRETE REINFORCING INSTITUTE".
28. MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

ALONG BACKFACES OF WALL AGAINST EARTH:	2.0 INCH
ALONG TOP SURFACE OF DECK SLAB:	2.5 INCH
ALONG BOTTOM SURFACE OF DECK SLAB:	1.5 INCH
ELSEWHERE UNLESS OTHERWISE INDICATED:	3.0 INCH

PAVEMENT REMOVAL AND DECK REPAIRS

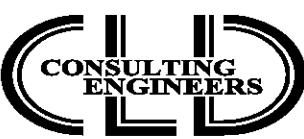
29. PAVEMENT REMOVAL SHOULD BE LIMITED TO WHAT IS SHOWN ON THE PLANS. ALTHOUGH THE INTENT OF THE PLANS IS TO REMOVE AND REPLACE THE CONCRETE BRIDGE DECK FOR THE ENTIRE BRIDGE LENGTH, THE ENGINEER HAS THE OPTION TO MAINTAIN THE EXISTING SPAN I CONCRETE BRIDGE DECK IF THE CONCRETE APPEARS TO BE IN GOOD CONDITION WITH MINIMAL AREAS OF UNSOUND CONCRETE. THEREFORE, PAVEMENT AND MEMBRANE REMOVAL ON SPAN #1 SHALL BE REQUIRED PRIOR TO BRIDGE DECK REMOVAL OPERATIONS. THIS WORK SHALL BE IN ACCORDANCE WITH SECTION 529 OF THE STANDARD SPECIFICATIONS.
30. THE FINAL ONE HALF INCH OF PAVEMENT ON SPAN #1 OF THE CONCRETE BRIDGE DECK AND THE AT-GRADE APPROACH SLABS SHALL BE REMOVED BY LOADER, GRADER OR EQUIPMENT APPROVED BY THE ENGINEER. COLD PLANING TO REMOVE BRIDGE PAVEMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 529.10, "REMOVAL OF BRIDGE PAVEMENT".
31. DURING BRIDGE AND AT-GRADE APPROACH SLAB PAVEMENT REMOVAL, THE CONTRACTOR SHALL EXERCISE CARE TO ENSURE THAT NO DAMAGE OCCURS TO SPAN #1 OF THE EXISTING CONCRETE BRIDGE DECK AND THE EXISTING AT-GRADE APPROACH SLABS. ANY DAMAGE TO SPAN #1 OF THE CONCRETE BRIDGE DECK OR AT-GRADE APPROACH SLABS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. REPAIRS, IF APPLICABLE, SHALL BE MADE IN ACCORDANCE WITH SECTION 580.
32. THE AT-GRADE APPROACH SLABS AND SPAN I OF THE CONCRETE BRIDGE DECK (IF APPLICABLE) SHALL BE CLEANED IN ACCORDANCE WITH SUBSECTION 580.04 AND TO THE SATISFACTION OF THE ENGINEER. REMOVAL OF THE BARRIER MEMBRANE AND THE CLEANING OF THE AT-GRADE APPROACH SLABS AND SPAN #1 OF THE CONCRETE BRIDGE DECK WILL BE PAID FOR UNDER ITEM 580.16, "SURFACE PREPARATION FOR MEMBRANE".
33. ONCE THE EXISTING PAVEMENT AND MEMBRANE ARE REMOVED FROM THE SPAN #1 CONCRETE BRIDGE DECK, ANY AREAS THAT ARE FOUND TO BE UNSOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE METHOD FOR DETERMINING AREAS OF UNSOUND CONCRETE SHALL BE APPROVED BY THE ENGINEER. THE ENGINEER SHALL MAKE A DETERMINATION AS TO WHETHER THE EXISTING SPAN #1 CONCRETE BRIDGE DECK SHOULD BE REPLACED OR REPAIRED. IF THE DECK IS TO BE REPLACED, BRIDGE DECK REMOVAL OPERATIONS SHALL COMMENCE. IF THE DECK IS TO BE MAINTAINED, THE ENGINEER SHALL MAKE A DETERMINATION AS TO HOW TO REPAIR THE DETERIORATED PORTION OF THE DECK AND THE LIMITS OF THE REPAIR. THE REPAIRS WILL BE PAID FOR UNDER ITEM 580.10, "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS I", ITEM 580.11, "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS II", OR ITEM 580.12, "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS III". QUANTITIES FOR ITEMS 580.10, 580.11, AND 580.12 AS SHOWN ON THE QUANTITY SUMMARY SHEETS ARE ESTIMATED AND INCLUDED IN THE CONTRACT IN THE EVENT THE SPAN IS MAINTAINED.
34. ONCE THE EXISTING PAVEMENT AND MEMBRANE ARE REMOVED FROM THE AT-GRADE APPROACH SLABS, ANY AREAS THAT ARE FOUND TO BE UNSOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE METHOD FOR DETERMINING AREAS OF UNSOUND CONCRETE SHALL BE APPROVED BY THE ENGINEER. THE ENGINEER SHALL MAKE A DETERMINATION AS TO HOW TO REPAIR THE DETERIORATED PORTION OF THE AT-GRADE APPROACH SLABS AND THE LIMITS OF THE REPAIR. THE REPAIRS WILL BE PAID FOR UNDER ITEM 580.10, "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS I", ITEM 580.11, "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS II", OR ITEM 580.12, "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS III". QUANTITIES FOR ITEMS 580.10, 580.11, AND 580.12 AS SHOWN ON THE QUANTITY SUMMARY SHEETS ARE ESTIMATED.

PAVEMENT AND MEMBRANE

35. UPON THE ENGINEER'S APPROVAL OF THE CONCRETE BRIDGE DECK'S CONDITION, ITEM 519.20, "SHEET MEMBRANE WATERPROOFING, TORCH APPLIED" SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 519. THE CONTRACTOR SHALL NOT INSTALL ITEM 519.20, "SHEET MEMBRANE WATERPROOFING, TORCH APPLIED" WHEN THE DECK CONCRETE AND/OR DECK PATCH AREAS' MOISTURE CONTENT IS ABOVE SECTION 519 SPECIFICATIONS OR MANUFACTURER'S SPECIFICATIONS, WHICHEVER IS LESS.
36. TRAFFIC WILL BE ALLOWED TO DRIVE ON THE BARE CONCRETE DECK PRIOR TO THE DECK BEING CLEANED AND PREPARED FOR THE NEW SHEET MEMBRANE. ONCE THE CONCRETE BRIDGE DECK IS PREPARED FOR THE NEW SHEET MEMBRANE, NO TRAFFIC WILL BE ALLOWED ON THE NEW MEMBRANE UNTIL THE SECOND LIFT OF BITUMINOUS CONCRETE PAVEMENT IS IN PLACE.
37. FOLLOWING THE INSTALLATION OF THE NEW SHEET MEMBRANE WATERPROOFING ON THE CONCRETE BRIDGE DECK, THE SOUTHERN ROADWAY APPROACH, CONCRETE BRIDGE DECK, AND AT-GRADE APPROACH SLAB #5 SHALL BE PAVED CURB TO CURB WITH ITEM 900.680, "SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT - BRIDGE MIX - TYPE IVB)" WITH ONE ¾" SHIM AND ONE 1¾" LIFT. THE TOP LIFT SHALL TAPER TO 1½" AT THE PIER #4 FINGER JOINT AND THE ABUTMENT #4 COMPRESSION JOINT TO ACCOMMODATE THE EXISTING STEEL PLATES AND HARDWARE. SEE JOINT DETAILS SHEET I ON SHEET 21 FOR TAPER LOCATIONS. AT-GRADE APPROACH SLAB #6 AND THE NORTHERN ROADWAY APPROACH SHALL BE PAVED CURB TO CURB WITH ITEM 900.680, "SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT - BRIDGE MIX - TYPE IVB)" WITH ONE ¾" SHIM AND ONE 1½" LIFT.
38. THE GRADE OF PG ASPHALT BINDER USED TO PRODUCE BITUMINOUS CONCRETE PAVEMENT SHALL BE 58-28. SUBSTITUTIONS WILL BE ACCEPTED BASED ON AVAILABILITY WHERE THE UPPER END TEMPERATURE VALUE IS GREATER THAN 58°C (136°F) AND/OR THE LOWER END TEMPERATURE VALUE IS LESS THAN -28°C (-18°F).
39. CARE SHALL BE EXERCISED TO SMOOTHLY TRANSITION THE NEW BRIDGE PAVEMENT INTO THE EXISTING PAVEMENT. ANY COLD PLANING NECESSARY FOR SHAPING BRIDGE APPROACHES WILL BE PAID FOR UNDER ITEM 210.10, "COLD PLANING, BITUMINOUS PAVEMENT".
40. ANY REQUIRED SAWCUT OF EXISTING PAVEMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 900.680, "SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT - BRIDGE MIX - TYPE IVB)".
41. EMULSIFIED ASPHALT SHALL BE APPLIED AT A RATE OF 0.08 GAL/SY TO ALL COLD PLANED SURFACES AND AT A RATE OF 0.04 GAL/SY BETWEEN PAVEMENT LIFTS OR AS DIRECTED BY THE ENGINEER. EMULSIFIED ASPHALT WILL BE PAID FOR UNDER ITEM 404.65, "EMULSIFIED ASPHALT".
42. UPON COMPLETION OF ALL PAVING OPERATIONS, FINAL PAVEMENT MARKINGS SHALL BE INSTALLED TO REPLICATE THE EXISTING CONFIGURATION.
43. DURABLE PAVEMENT MARKINGS ARE OPTIONED AS SHOWN ON THE PLAN SHEETS FOR THIS PROJECT. THE CONTRACTOR SHALL BID THE SAME MARKING MATERIAL FOR ALL OPTION ITEMS.



REVISION	DATE	DESCRIPTION	BY
1	03-30-2016	ADDING AND CHANGING ITEMS	LG



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INDEX OF SHEETS & PROJECT NOTES SHEET 2 SHEET 3 OF 49	