STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROJECT NOTES

13. ALL NAILS AND SPIKES SHALL CONFORM TO ASTM F1667 AND BE DOUBLE HOT DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO M 232M/M 232.

14. THE SUBSTRUCTURE HOLD DOWN RODS SHALL BE GROUTED INTO THE PIER AND ABUTMENTS USING SPEC BOND 200 BY CONSPEC, RESCON 304 BY SYMONS CORPORATION OR DURALCRETE BY TAMMS INDUSTRIES OR OTHER EQUIVALENT APPROVED EPOXY MORTAR IN LIEU OF MORTAR, TYPE IV. THE HOLD DOWN RODS, DRILLING AND GROUTING OF THEM, NUTS, WASHERS, PLATES, AND ADJUSTMENT OF TIMBER MEMBERS TO ALLOW INSTALLATION OF HOLD DOWN RODS SHALL BE PAID UNDER ITEM 900.620, SPECIAL PROVISION (BEARING DEVICE ASSEMBLY, COVERED BRIDGE).

15. THE CONTRACTOR SHALL INCORPORATE AN LED BRIDGE LIGHTING SYSTEM WHICH INCORPORATES LED LUMINAIRES PLACED AT EACH PORTAL (OUTSIDE AT THE ROOFLINE. SEE SHEET 32) AND WITHIN THE COVERED BRIDGE. NO APPROACH LIGHTING IS REQUIRED. THE SYSTEM SHALL BE DESIGNED TO PROVIDE AN AVERAGE MAINTAINED ILLUMINATION OF 1.0 FOOTCANDLES AND A UNIFORMITY (AVERAGE/MINIMUM) OF 3:1. IT IS ANTICIPATED THAT A TOTAL OF 10 LUMINAIRES WILL BE REQUIRED (2 AT PORTALS AND 8 WITHIN THE COVERED BRIDGE). SEE LIGHTING PLAN ON SHEET 62. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN ITEM 900.645 SPECIAL PROVISION (LIGHTING FOR COVERED BRIDGE). THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH CVPS TO DETACH THE EXISTING LIGHTING SYSTEM AND CONFIGURE THE NEW LIGHTING SYSTEM PRIOR TO COMMENCING ANY WORK. SEE SPECIAL PROVISIONS.

16. TRUSS, FLOORBEAM, AND OTHER ELEMENTS DESIGNATED TO BE REMOVED, REPLACED, OR RELOCATED SHALL BE TAGGED WITH METAL TAGS THAT ARE STAMPED WITH MEMBER NOMENCLATURE PRIOR TO DISASSEMBLY. ALL TAGGED MEMBERS SHALL ALSO BE PHOTOGRAPHED AND CAREFULLY REMOVED FOR FUTURE REASSEMBLY.

17. EXCEPT AS SPECIFIED IN THE STRUCTURAL STEEL NOTES, PAYMENT FOR STRUCTURAL LUMBER AND TIMBER AND NON-STRUCTURAL LUMBER QUANTITIES SHALL BE FULL COMPENSATION FOR DETAILING, FURNISHING, TRANSPORTING, HANDLING, PLACING AND INSTALLING NEW AND REUSED TIMBER CONNECTORS WHICH ARE USED TO CONNECT NEW LUMBER AND TIMBER MEMBERS WITH EXISTING LUMBER AND TIMBER MEMBERS.

18. EXCEPT AS SPECIFIED IN THE STRUCTURAL STEEL NOTES, DETAILING, FURNISHING TRANSPORTING, HANDLING, AND INSTALLING NEW AND REUSED TIMBER CONNECTORS WHICH ARE USED TO CONNECT EXISTING LUMBER AND TIMBER MEMBERS SHALL BE CONSIDERED INCIDENTAL TO THE WORK REQUIRED FOR ITEM 900.645, SPECIAL PROVISION (REHABILITATING COVERED BRIDGE SUPERSTRUCTURE) AND ITEM 900.645, SPECIAL PROVISION (INCOPORATING SALVAGED BRIDGE COMPONENTS).

19. DOWEL HOLES ON EXISTING ARCH AND TRUSS MEMBERS SHALL BE PLUGGED WITH AN APPROVED WOOD EPOXY OR HARDWOOD DOWEL AS APPROVED BY THE ENGINEER. APPROXIMATELY 100 LOCATIONS HAVE BEEN INCLUDED FOR BIDDING PURPOSES. COST SHALL BE INCLUDED UNDER ITEM 900.645, SPECIAL PROVISION (REHABILITATING COVERED BRIDGE SUPERSTRUCTURE).

20. THE REPAIR OF EXISTING BRIDGE MEMBERS SHALL BE MADE WITH AN APPROVED WOOD EPOXY TO ACHIEVE FULL STRENGTH OF THE REPAIRED MEMBER. TWENTY (20) MEMBER REPAIRS HAVE BEEN INCLUDED FOR BIDDING PURPOSES. COST SHALL BE INCLUDED UNDER ITEM 900.645, SPECIAL PROVISION (WOOD EPOXY REPAIRS). THE SUGGESTED REPAIR SEQUENCE SHALL BE AS FOLLOWS:

- PERFORM A SURVEY OF EXISTING MEMBERS WITH THE RESIDENT ENGINEER.
- REMOVE ROTTED MATERIAL TO A MINIMUM OF 1/4 INCH BEYOND EXTENT OF ROT, SAWCUT 1/8 INCH DEEP AROUND PERIMETER OF REPAIR AREA.
- CLEAN EXISTING MEMBER OF ALL DIRT, SAWDUST, ETC. AND PREPARE SURFACE PER MANUFACTURER'S RECOMMENDATIONS.
- INSTALL/INJECT APPROVED EPOXY REPAIR MATERIAL PER MANUFACTURER'S RECOMMENDATIONS. COLOR OF REPAIR MATERIAL SHALL MATCH EXISTING WOOD. A COMPLETED TEST SECTION SHALL BE MADE FOR APPROVAL OF THE RESIDENT ENGINEER.
- INSTALL TWO (2) GALVANIZED LAG SCREWS INTO EXISTING SPLIT THROUGH REPAIR MATERIAL (IF REQUIRED). SIZE OF LAG SCREWS TO BE DETERMINED BY THE CONTRACTOR TO THE SATISFACTION OF THE RESIDENT ENGINEER.

21. ALL NEW SIDING SHALL BE FULL LENGTH BOARDS. THE OUTSIDE FACES OF SIDING AND PORTAL BOARDS SHALL BE TREATED WITH FIRE RETARDANT PAINT (AMDEK "RED PEPPER"). THE INSIDE FACES OF PORTAL AND SIDING BOARDS SHALL BE TREATED WITH CLEAR FIRE RETARDANT.

22. TIMBER SHALL BE TREATED WITH INSECTICIDE/FUNGICIDE AND FIRE RETARDANTS IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION SECTION 660. SEE TIMBER TABLE ON SHEET 56.

23. THERE MAY BE INSTANCES WHERE EXISTING MEMBERS (DESIGNATED TO REMAIN) MAY NEED TO BE TEMPORARILY REMOVED OR ADJUSTED IN ORDER TO INCORPORATE A NEW MEMBER OR NEW IMPROVEMENTS. ALL COSTS ASSOCIATED WITH REMOVAL OR ADJUSTMENT OF EXISTING MEMBERS SHALL BE INCLUDED IN ITEM 900.645, SPECIAL PROVISION (REHABILITATING COVERED BRIDGE SUPERSTRUCTURE).

24. FLOORBEAMS THAT BEAR ON THE ABUTMENT NO. 1 (WEST) CENTER PEDESTAL SHALL BE SET ON 1/8-INCH ELASTOMERIC BEARING PADS. COSTS SHALL BE INCLUDED IN CONTRACT ITEM 501.34, CONCRETE, HIGH PERFORMANCE CLASS B.

SUBSTRUCTURE NOTES

1. ITEM 900.645, SPECIAL PROVISION (REPAIRING STONE MASONRY, JAHN PERMEABLE MORTAR SYSTEM)(EAST ABUTMENT)SHALL INCLUDE, BUT IS NOT LIMITED TO:

   - INSTALL WORK PLATFORMS AROUND THE EAST ABUTMENT NO. 2
   - FLUSH JOINTS WITH WATER
   - POINT STONE MASONRY WITH COLORED, RECESSED, PERMEABLE MORTAR
   - SEAL CONCRETE ENCASEMENT CRACKS AND BASE OF ENCASEMENT (FOUNDED ON LEDGE) WITH APPROVED SEALANT
   - PLACE CONSOLIDATION MORTAR (GROUT) IN ABUTMENT STEM AREAS IN APPROVED LIFTS

2. ITEM 900.645, SPECIAL PROVISION (REPAIRING STONE MASONRY, JAHN PERMEABLE MORTAR SUSTEM)(PIER), SHALL INCLUDE, BUT IS NOT LIMITED TO:

   - INSTALL WORK PLATFORM AROUND PIER
   - CONDUCT WATER BATH OF PIER CORE TO REMOVE DUST AND DEBRIS
   - PERFORM BORESCOPE INSPECTION
   - SEAL CONCRETE ENCASEMENT CRACKS AT BASE OF ENCASEMENT (FOUNDED ON LEDGE) WITH APPROVED SEALANT
   - POINT STONE MASONRY WITH COLORED, RECESSED PERMEABLE MORTAR
   - PLACE CONSOLIDATION MORTAR (GROUT) IN PIER STEM IN APPROVED LIFTS
   - INCORPORATE TENSION ANCHORS
   - CONTRACTOR'S METHOD FOR ENSURING SUPERSTRUCTURE AND PIER STABILITY DURING DRILLING ACCESS AND OPERATIONS.

3. ITEM 900.645, SPECIAL PROVISION (STONE MASONRY REPAIR MATERIAL, JAHN PERMEABLE MORTAR SYSTEM) SHALL INCLUDE, BUT IS NOT LIMITED TO:

   - OBTAIN REQUIRED MORTAR AND GROUT FOR THE REPAIR OF THE MASONRY ABUTMENTS AND PIERS FROM CATHEDRAL STONE.

4. ITEM 900.620, SPECIAL PROVISION (WOOD EPOXY REPAIRS) SHALL INCLUDE, BUT IS NOT LIMITED TO:

   - JOINTLY INSPECT WITH THE RESIDENT ENGINEER THE EXISTING TRUSS MEMBERS DESIGNATED TO REMAIN TO IDENTIFY MEMBERS REQUIRING REPAIR
   - WORK WITH THE RESIDENT ENGINEER TO DETERMINE AN APPROPRIATE REPAIR SCHEME INVOLVING LAG SCREWS AND WOOD EPOXY OR GLUE
   - COMPLETE THE REPAIRS TO THE LIMITS AND SATISFACTION OF THE RESIDENT ENGINEER

5. ITEM 900.620, SPECIAL PROVISION (TIMBER ARCH BEARING CONNECTION) SHALL INCLUDE, BUT IS NOT LIMITED TO:

   - MEASURE EXISTING ARCHES TO ESTABLISH DIMENSIONS FOR THE NEW METAL CONNECTION ASSEMBLIES
   - FABRICATE AND INSTALL METAL CONNECTION ASSEMBLIES
   - OBTAIN AND INSTALL ELASTOMERIC BEARING PADS AND METAL CONNECTION ASSEMBLIES
   - DEVELOP LIMITS AND CONSTRUCT ARCH PEDESTALS WITH HPC, CLASS AA
   - DRILL AND DOWEL ANCHORS INTO EXISTING FOUNDATIONS
   - SECURE AND CONSTRUCT FLASHING

6. ITEM 602.35, REBUILT STONE MASONRY, SHALL INCLUDE, BUT IS NOT LIMITED TO:

   - PLACEMENT OF MORTARED MASONRY WALL AROUND THE PERIMETER OF THE NEW REINFORCED CONCRETE ABUTMENT NO. 1 (WEST)

   - ATTACHING THE MORTARED MASONRY WALL TO THE REINFORCED CONCRETE ABUTMENT STEM WITH APPROVED ANCHORS

   - INCORPORATING STONES FROM THE COLLAPSED ABUTMENT INTO THE MASONRY WALL, AS WELL AS INCORPORATING NEW STONE (AS REQUIRED) THAT MATCH AS CLOSELY AS PRACTICAL TO THE EXISTING STONE

   - FACING STONES SHALL CONSIST OF INCORPORATING EXISTING FACING STONES AS CLOSELY AS PRACTICAL AS DETERMINED BY AND TO THE SATISFACTION OF THE RESIDENT ENGINEER.

   - NEW STONES SHALL MEET THE REQUIREMENTS OF SUBSECTION 706.01.

7. THE MASONRY FACING WALLS SHALL BE FASTENED TO THE REINFORCED CONCRETE ABUTMENT WITH NON-CORROSIVE METAL SUPPORT ANCHORS.

8. ITEM 900.620, SPECIAL PROVISION (BEARING DEVICE ASSEMBLY, COVERED BRIDGE) SHALL INCLUDE, BUT IS NOT LIMITED TO:

   - PROVIDING HOLD DOWN RODS, NUTS, WASHERS, AND BEARING PLATE
   - ESTABLISHING LOCATION OF HOLD DOWN RODS
   - DRILLING AND GROUTING INTO THE THREE SUBSTRUCTURE ELEMENTS

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