

PROJECT NOTES

GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION 2011 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND ITS LATEST REVISIONS AND THE 6TH EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATION AND ITS LATEST REVISIONS.
2. THE CONTRACTOR WILL BE ALLOWED TO CLOSE BRIDGE NO. 7 TO COMPLETE BRIDGE REPLACEMENT. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. THE CONTRACTOR SHALL ENSURE ACCESS TO ALL DRIVES AND SIDE ROADS AT ALL TIMES DURING CONSTRUCTION.
4. ALL DIMENSIONS SHOWN IN THE PLANS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68°F UNLESS OTHERWISE NOTED.
5. IN-STREAM CONSTRUCTION SHALL OCCUR ONLY WITHIN THE TIMEFRAME SPECIFIED IN THE CONTRACT DOCUMENTS. IF THE CONTRACTOR PROPOSES TO PERFORM IN STREAM WORK OUTSIDE OF THESE TIMEFRAMES, THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE APPROPRIATE REGULATING ENTITIES PRIOR TO PERFORMING THE WORK.

PRECAST CONCRETE BOX CULVERT AND WINGWALLS

1. THE BOX CULVERT INCLUDING THE SILLS, HEADWALLS, CUT-OFF WALLS, AND WINGWALLS SHALL BE PRECAST. THE DESIGN OF THE CULVERT INCLUDING THE SILLS, HEADWALLS, CUT-OFF WALLS, AND WINGWALLS SHALL BE THE RESPONSIBILITY OF THE FABRICATOR. CULVERT SHALL BE DESIGNED FOR AN HL-93 LIVE LOAD.
2. THE CONTRACTOR SHALL SUBMIT FABRICATION DRAWINGS FOR THE BOX CULVERT AND ALL ASSOCIATED DETAILS FOR THE APPROVAL OF THE PROJECT MANAGER IN ACCORDANCE WITH SUBSECTION 105.03.
3. THE BOX CULVERT TYPICAL SECTIONS SHOWN IN THE DRAWINGS ARE FOR SCHEMATIC PURPOSES ONLY. THE ACTUAL SHAPE OF THE BOX CULVERT AND ITS COMPONENTS WILL BE DEPENDENT ON THE FABRICATOR.
4. ALL BOX CULVERT JOINTS SHALL BE STRENGTHENED WITH PERMANENT CLOSURE HARDWARE. ALL HARDWARE COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH SUBSECTION 726.08 OF THE STANDARD SPECIFICATIONS.
5. ALL REINFORCING STEEL FOR THE PRECAST CONCRETE BOX CULVERT AND WINGWALLS SHALL MEET THE REQUIREMENTS OF SECTION 507 FOR UNCOATED LEVEL 1 AND WILL BE PAID FOR UNDER THE APPROPRIATE 540.10 CONTRACT ITEM.
6. AFTER BOX CULVERT SECTIONS HAVE BEEN SET IN THEIR FINAL POSITION, ALL LIFTING HOLES AND CONNECTION POCKETS, SHALL BE FILLED WITH MORTAR, TYPE IV. ALL MORTAR SHALL BE WET CURED UNTIL THE COMPRESSIVE STRENGTH HAS REACHED 2000 psi., PRIOR TO THE APPLICATION OF ANY WATERPROOFING. APPROVED CURING COMPOUNDS MAY BE USED IN PLACE OF WET CURING. MORTAR, TYPE IV SHALL BE PAID FOR UNDER CONTRACT ITEM 540.10.
7. A TWO FOOT WIDE STRIP OF SHEET MEMBRANE WATERPROOFING, PREFORMED SHEET SHALL BE APPLIED AT EACH SIDE JOINT. THE MEMBRANE SHALL BE CENTERED ON THE JOINT AND SHALL RUN THE ENTIRE HEIGHT OF THE JOINT. THE ENTIRE TOP OF THE BOX CULVERT SHALL THEN BE COVERED WITH MEMBRANE. THE MEMBRANE SHEETS SHALL OVERLAP THE EDGES OF THE CULVERT BY ONE FOOT ON EACH SIDE AS SHOWN IN THE PLANS. THE MEMBRANE WATERPROOFING, PREFORMED STRIP SHALL BE ON THE VTRANS PREAPPROVED PRODUCTS LIST AND WILL BE PAID FOR UNDER ITEM 540.10.
8. WATER REPELLENT IN ACCORDANCE WITH ITEM 514.10 SHALL BE APPLIED TO ALL EXPOSED SURFACES EXCEPT THE INSIDE OF THE BOX.
9. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" x 1".

APPROACH SLAB CONCRETE AND REINFORCING STEEL

1. CONCRETE FOR THE APPROACH SLAB SHALL BE 501.34, CONCRETE HIGH PERFORMANCE CLASS B.
2. REINFORCING STEEL FOR APPROACH SLAB SHALL MEET THE REQUIREMENTS OF SECTION 507 FOR LEVEL 1 EPOXY COATED AND WILL BE PAID FOR UNDER CONTRACT ITEM 507.11 REINFORCING STEEL, LEVEL 1.
3. AREAS OF UNSOUND CONCRETE ON THE APPROACH SLAB SEAT SHALL BE REPAIRED IN ACCORDANCE WITH ITEMS 580.13, 580.14 AND 580.15 AS DIRECTED BY THE ENGINEER.
4. REMOVAL OF EXPOSED PORTION OF EXISTING DOWELS IN APPROACH SLAB SEAT TO BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 501.34.

SIMULATED STREAM BED

1. BED MATERIAL TO BE PLACED IN THE RECONSTRUCTED CHANNEL AND BOX CULVERT IS INTENDED TO MIMIC THE NATIVE CHANNEL.
2. INSTALLATION OF THE BED MATERIAL MAY REQUIRE INDIVIDUAL PLACEMENT OF LARGE STONES AT SPECIFIC LOCATIONS, AS DIRECTED BY THE ENGINEER. THE BED MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER AND THE AGENCY OF NATURAL RESOURCES STREAM ALTERATION ENGINEER, AND WILL BE IN ACCORDANCE WITH ITEMS 900.608 SPECIAL PROVISION (STONE FILL, STREAM BED MATERIAL) AND 900.608 SPECIAL PROVISION (STONE FILL, CULVERT LINING).

UTILITY COORDINATION

1. THE CONTRACTOR IS ADVISED TO EXERCISE CAUTION WHILE WORKING IN AREAS OF OVERHEAD UTILITIES. SEE THE UTILITY SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

LANDSCAPING NOTES

1. ALL LANDSCAPING ITEMS WILL BE INSTALLED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
2. APPLICABLE STANDARDS: AMERICAN NATIONAL STANDARDS FOR TREE CARE OPERATIONS, ANSI A300. AMERICAN STANDARD FOR NURSERY STOCK, AND SO Z60.1. HORTUS THIRD, THE STAFF OF THE L.H. BAILEY HORTORIUM. ALL STANDARDS SHALL INCLUDE THE LATEST ADDITIONS AND AMENDMENTS AS OF THE DATE OF ADVERTISEMENT FOR BIDS.
3. FERTILIZER: SLOW RELEASE TYPE, OR SUBSTITUTE APPROVED BY THE ENGINEER, APPLIED AS FOLLOWS:
TREES AND SHRUBS
MARCH-MAY 10-10-10
MAY-OCTOBER 6-10-10
OCTOBER-MARCH 4-12-12
RATE OF APPLICATION: 1lb./INCH IN CALIPER
4. EXCAVATE SOIL TO 3X WIDER THAN ROOT BALL DIAMETER FOR TREES AND 2X WIDER FOR SHRUBS. SET BALLED AND BURLAPPED (B&B) STOCK ON LAYER OF COMPACTED SOIL MIXTURE, STAND PLUMB AND IN CENTER OF PIT OR TRENCH WITH TOP OF BALL AT THE SAME ELEVATION AS ADJACENT FINISHED LANDSCAPE GRADES. REMOVE WIRE BASKET AND ALL TWINE, REMOVE BURLAP FROM UPPER HALF OF BALLS; RETAIN ON BOTTOMS. SET CONTAINER GROWN SOCK AS SPECIFIED FOR B&B MATERIAL, EXCEPT CUT CANS ON TWO SIDES WITH AN APPROVED CAN CUTTER.
5. DISH TOP OF BACKFILL TO ALLOW FOR MULCHING. MULCH PITS WITH NOT LESS THAN 3" OF ORGANIC MULCH. MULCH SHALL NOT COME IN CONTACT WITH TREE BARK.
6. ALL PLANTS SHALL BE CAREFULLY AND THOROUGHLY WATERED DURING PLANTING AND AS OFTEN AS NECESSARY THEREAFTER TO PROVIDE THE BEST GROWING CONDITIONS UNTIL ACCEPTANCE OF THE WORK.
7. BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE, THE COST OF THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE 656.30, AND 656.35 CONTRACT ITEMS.
8. MAINTAIN LAWNS BY WATERING, FERTILIZING, WEEDING, MOWING (2" HEIGHT), TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING, AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS. THE COST OF THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE SECTION 651 CONTRACT ITEMS.
9. SEE EPSC DETAILS SHEET 1 FOR TURF ESTABLISHMENT INFORMATION.

SLOPE AND CHANNEL REPAIR NOTES

1. THE PRINCIPLE DIMENSION OF RIPRAP SHALL BE GREATER THAN 5 FOOT WITH THE LEAST DIMENSION AT LEAST 1/3 THE LONGEST DIMENSION. STONE SHALL BE ANGULAR, AND APPROVED BY THE ENGINEER, ROUGH, UNHEWN, QUARRY STONE. THE STONES SHALL BE HARD, SOUND AND RESISTENT TO THE ACTION OF WATER AND WEATHERING. THEY SHALL BE OF A ROCK TYPE OTHER THAN SERPENTINE ROCK CONTAINING THE FIBROUS VARIETY CHRYSOTILE (ASBESTOS). RIPRAP SHALL BE PAID UNDER CONTRACT ITEM 613.15 RIPRAP, HEAVY TYPE.
2. IN AREAS WHERE 3'-7" GUARDRAIL BACKING CANNOT BE ACHIEVED, INSTALL 8' POSTS UNDER CONTRACT ITEM 621.205.
3. THE STONE SLOPE SHALL BE NO STEEPER THAN 1.5H TO 1.0V UNLESS DIRECTED BY THE ENGINEER.
4. NATURAL RIVER BOULDERS SHALL BE PLACED THROUGHOUT THE FINISHED STREAM CHANNEL. PAYMENT WILL BE MADE UNDER CONTRACT ITEM 900.645 SPECIAL PROVISION (STREAM HABITAT BOULDERS).

BR6 MEMBRANE NOTES

1. TRAFFIC SHALL BE ALLOWED TO DRIVE ON THE BARE CONCRETE BRIDGE DECK AFTER THE REMOVAL OF THE BARRIER MEMBRANE, BUT 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 SHALL BE ALLOWED ON THE DECK UNTIL THE FIRST LIFT OF BITUMINOUS CONCRETE PAVEMENT IS IN PLACE OVER THE ENTIRE LENGTH OF THE BRIDGE.
2. THE FINAL ONE HALF INCH OF PAVEMENT ON THE CONCRETE BRIDGE DECK AND APPROACH SLABS SHALL BE REMOVED BY LOADER, GRADER OR EQUIPMENT APPROVED BY THE ENGINEER. COLD PLANING TO REMOVE BRIDGE PAVEMENT WILL BE INCIDENTAL TO ITEM 529.10, "REMOVAL OF BRIDGE PAVEMENT".
3. DURING BRIDGE AND APPROACH SLAB PAVEMENT REMOVAL, THE CONTRACTOR SHALL EXERCISE CARE TO INSURE THAT NO DAMAGE OCCURS TO THE EXISTING CONCRETE BRIDGE DECK AND THE EXISTING APPROACH SLABS. ANY DAMAGE TO THE CONCRETE BRIDGE DECK OR APPROACH SLABS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. REPAIRS SHALL BE MADE IN ACCORDANCE WITH SECTION 580.
4. CARE SHALL BE TAKEN TO PROTECT ANY SCUPPERS OR DROP INLETS AT ALL STAGES OF CONSTRUCTION. ANY DAMAGE TO THESE STRUCTURES SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
5. AFTER THE REMOVAL OF THE BRIDGE PAVEMENT, THE BARRIER MEMBRANE SHALL BE REMOVED AND THE CONCRETE BRIDGE DECK SHALL BE CLEANED AND PREPARED IN ACCORDANCE WITH SUBSECTION 580.04 AND TO THE SATISFACTION OF THE ENGINEER. REMOVAL OF THE BARRIER MEMBRANE AND THE CLEANING AND PREPARATION OF THE CONCRETE BRIDGE DECK WILL BE PAID FOR UNDER ITEM 580.16, "SURFACE PREPARATION FOR MEMBRANE".
6. ONCE THE BARRIER MEMBRANE IS REMOVED, ANY AREAS ON THE CONCRETE BRIDGE DECK THAT ARE FOUND TO BE UNSOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE ENGINEER SHALL MAKE A DETERMINATION AS TO HOW TO REPAIR THE DETERIORATED PORTION OF THE CONCRETE BRIDGE DECK AND THE LIMITS OF THE REPAIR.
7. 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. SHEET MEMBRANE WATERPROOFING SHALL NOT BE APPLIED WHEN THE DECK CONCRETE AND/OR DECK PATCH AREA'S MOISTURE CONTENT IS ABOVE THE SECTION 519 SPECIFICATIONS OR THE MANUFACTURER'S SPECIFICATIONS, WHICHEVER IS LESS.
8. FOLLOWING THE COMPLETION OF ALL OTHER BR6 CONSTRUCTION ACTIVITIES, ALL FABRIC DRAIN TROUGHS, DOWNSPOUTS AND SCUPPERS SHALL BE THOROUGHLY FLUSHED BY THE CONTRACTOR. COST FOR FLUSHING THE FABRIC DRAIN TROUGHS, DOWNSPOUTS AND SCUPPERS WILL BE INCIDENTAL TO ALL OTHER ITEMS IN THE CONTRACT.

TRAFFIC CONTROL

1. SEE SHEETS 34-38 FOR TRAFFIC CONTROL PLANS AND NOTES.

PROJECT NAME: BRAINTREE
PROJECT NUMBER: ER STP 0187(12)

FILE NAME: z12c526frm.dgn PLOT DATE: 1/27/2014
PROJECT LEADER: G. EDWARDS DRAWN BY: G. BURGMEIER
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