

GENERAL NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2006, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SEVENTEENTH EDITION, AND ITS LATEST REVISIONS.
2. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES F UNLESS OTHERWISE NOTED.
3. IN-STREAM CONSTRUCTION SHALL BE RESTRICTED TO JUNE 1 TO OCTOBER 1, UNLESS THE CONTRACTOR OBTAINS WRITTEN PERMISSION FROM THE AGENCY OF NATURAL RESOURCES TO DO WORK OUTSIDE OF THIS TIME FRAME.
4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SILTATION OR POLLUTION, ESPECIALLY THE DISCHARGE OF CONCRETE, INTO ANY BROOK, STREAM OR RIVER.
5. THE COST OF ON-PROJECT SIGNS AND BARRICADES REQUIRED SHALL BE INCLUDED IN THE TRAFFIC CONTROL ITEM. THE REMOVAL AND/OR RESETTING OF TRAFFIC SIGNS, AS DEEMED NECESSARY BY THE RESIDENT ENGINEER WILL ALSO BE INCLUDED IN THE TRAFFIC CONTROL ITEM.
6. TRAFFIC SHALL BE MAINTAINED ON THE EXISTING ROAD AND EXISTING TEMPORARY DETOUR BRIDGE DURING CONSTRUCTION. COST SHALL BE INCLUDED IN ITEM 527.10, "MAINTENANCE OF STRUCTURES AND APPROACHES."
7. THE STONE FILL IN FRONT OF THE ABUTMENTS SHALL BE PLACED BEFORE THE BEAMS OR COVERED BRIDGE ARE ERECTED.
8. THERE ARE NO ORIGINAL PLANS AVAILABLE OF THE EXISTING COVERED BRIDGE AND RUBBLE MASONRY ABUTMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING FIELD MEASUREMENTS OF ALL EXISTING CONDITIONS THAT AFFECT OR ARE IMPACTED BY THE NEW WORK TO ASSURE CONSISTENCY WITH THE PROPOSED CONSTRUCTION. ANY DISCREPANCIES IN DIMENSIONS, CHARACTER OR EXTENT OF THE EXISTING FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ADVANCING THE WORK.
9. ONLY A THREE ROD (49.5 FEET) RIGHT-OF-WAY (R.O.W.) IS AVAILABLE FOR CONSTRUCTION ACTIVITY. IF ADDITIONAL R.O.W. IS NEEDED FOR CONSTRUCTION OR STAGING PURPOSES, THE CONTRACTOR SHALL SECURE ALL NECESSARY EASEMENTS. COST SHALL BE INCIDENTAL TO ALL CONTRACT ITEMS.

CONCRETE NOTES:

1. CONCRETE USED IN SUPERSTRUCTURE (CURTAIN WALL AND CONCRETE CURB) SHALL BE HIGH PERFORMANCE CLASS "A". ALL OTHER CONCRETE, EXCEPT FOR THE TREMIE SEAL CONCRETE, SHALL BE HIGH PERFORMANCE CLASS "B". TREMIE SEAL CONCRETE WILL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 208.40.
2. ALL EXPOSED CONCRETE (EXCEPT FOR TOP OF CURTAIN WALL) AND CONCRETE SURFACES WITHIN ONE FOOT OF FINISH GRADE SHALL BE COATED WITH AN APPROVED DARK GRAY STAIN AND PROTECTIVE SEALANT. SEE CONTRACT SPECIAL PROVISIONS.
3. THE KEY IN CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT. ANY UPWARD KEY SHALL BE PLACED INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.
4. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" X 1".
5. JOINTS IN CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
6. ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH THE APPLICABLE PUBLICATIONS OF THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
7. REINFORCING PLACEMENT TOLERANCES SHALL BE:  
SPACING: ±1"  
CLEARANCE: ±¼"
8. MINIMUM COVER FOR REINFORCING STEEL SHALL BE TWO (2) INCHES ALONG THE BACK FACES OF WALLS AGAINST EARTH AND THREE (3) INCHES ELSEWHERE, UNLESS OTHERWISE NOTED.
9. WHEN EPOXY COATED REINFORCING IS CUT, THE UNCOATED ENDS SHALL BE REPAIRED WITH MATERIALS AND PROCEDURES APPROVED BY THE COATING MANUFACTURER. FLAME CUTTING OF EPOXY COATED REINFORCING STEEL IS NOT PERMITTED.
10. TOP SURFACES OF TRUSS PEDESTALS SHALL BE LEVEL.
11. NO TRAFFIC SHALL BE ALLOWED ON THE NEW FLOOR SYSTEM UNTIL THE CURE PERIOD FOR THE CURTAIN WALL HAS LAPSED OR THE 28 DAY COMPRESSIVE STRENGTH IS ATTAINED, AS EVIDENCED BY TEST CYLINDERS CURED UNDER FIELD CONDITIONS.

STRUCTURAL STEEL NOTES:

1. BEAMS, DIAPHRAGMS, CONNECTION PLATES, GUSSET PLATES, AND TRUSS RETAINER BRACKETS SHALL CONFORM TO AASHTO M270 GRADE 50 AND SHALL BE PAID FOR UNDER ITEM 506.50, "STRUCTURAL STEEL, ROLLED BEAM". THESE MEMBERS SHALL BE GALVANIZED AND PAINTED IN ACCORDANCE WITH SECTION 513 (COLOR SHALL BE DARK BROWN COLOR CHIP # 20059).
2. THE BEAM HOLD-DOWN ANGLES AND TRUSS HOLD-DOWN ANGLES SHALL CONFORM TO AASHTO M270 GRADE 50 AND SHALL BE PAID UNDER ITEM 506.60, "STRUCTURAL STEEL." THE TRUSS HOLD-DOWN BOLTS AND ANCHOR RODS SHALL CONFORM TO ASTM A307 AND SUBSECTION 714.08. THE COST OF THESE BOLTS AND RODS SHALL BE INCIDENTAL TO ITEM 506.60.
3. ALL BOLTS FOR STRUCTURAL STEEL SHALL BE ¾" DIAMETER, TYPE 1, GALVANIZED AND PAINTED UNLESS OTHERWISE NOTED.
4. STANDARD HOLES SHALL BE USED IN ALL CONNECTIONS UNLESS OTHERWISE NOTED.
5. BEAMS SHALL MEET THE CHARPY V-NOTCH REQUIREMENTS FOR MAIN MEMBERS AS INDICATED IN SUBSECTION 714.01 OF THE SPECIFICATIONS.
6. BEAMS SHALL BE FABRICATED WITH ZERO CAMBER. ACCEPTABLE CAMBER TOLERANCE SHALL BE MINUS 0" AND PLUS ¼".
7. ANY CONNECTIONS THAT ARE NOT DESIGNED SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED FOR APPROVAL.
8. IN LIEU OF THE W18X86 BEAM SHOWN IN THE PLANS, AN EQUIVALENT PLATE GIRDER (PLATE DIMENSIONS AND THICKNESS COMPARABLE TO THE ROLLED BEAM SECTION WITH ¾" FLANGE TO WEB FILLET WELDS ON EACH SIDE) OR A W18X97 ROLLED BEAM MAY BE SUBSTITUTED AT NO ADDITIONAL COST TO THE AGENCY.

TEMPORARY BRIDGE AND APPROACHES NOTE:

1. AT THE TIME THESE PLANS WERE PREPARED FOR THE REHABILITATION OF THE BRALEY COVERED BRIDGE, THE CONTRACT TO CONSTRUCT THE TEMPORARY BRIDGE, ITS RELATED APPROACHES, AND THE RELOCATION OF THE EXISTING COVERED BRIDGE WAS UNDER WAY BUT NOT COMPLETE. ACCORDINGLY, THESE PLANS DO NOT REFLECT THE ACTUAL, AS-BUILT CONDITION OF THE TEMPORARY BRIDGE AND THE SITE AS IT CURRENTLY EXISTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE EXISTING SITE CONDITIONS AND TO CONSTRUCT THE WORK IN ACCORDANCE WITH THE CONTRACT.

BRIDGE REMOVAL NOTES:

1. UNDER A SEPARATE CONTRACT, THE EXISTING COVERED BRIDGE SHELL WAS PARTIALLY DISMANTLED, REMOVED FROM THE SITE, AND STORED AT TOWN GARAGE FACILITY. CONTACT PETER BUTTERFIELD, TOWN OF RANDOLPH TOWN MANAGER, FOR ADDITIONAL INFORMATION.
2. THE EXISTING ABUTMENT STONE MASONRY SHALL BE SALVAGED AND LOADED ON TO TOWN OF RANDOLPH TRUCKS. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH PETER BUTTERFIELD, TOWN OF RANDOLPH TOWN MANAGER. REMOVAL OF THE STONE MASONRY WITHIN THE COFFERDAM PAY LIMITS SHALL BE INCLUDED IN ITEM 208.30 OR ITEM 208.35 AS APPROPRIATE. REMOVAL OF STONE MASONRY OUTSIDE THE COFFERDAM PAY LIMITS SHALL BE INCLUDED IN ITEM 203.27. A NOMINAL (ASSUMED) QUANTITY FOR COFFERDAM EXCAVATION, ROCK IS INCLUDED FOR EACH ABUTMENT TO ALLOW FOR ROCKS OR BOULDERS MEASURING 0.5 CY OR MORE.
3. TO THE SATISFACTION OF THE ENGINEER, ITEM 529.15, "REMOVAL OF STRUCTURE" SHALL INCLUDE THE REMOVAL OF THE EXISTING TEMPORARY BRIDGE INCLUDING RELATED APPROACHES AND SHEETING. ANY CONCRETE OR STEEL AT THE EXISTING BRIDGE SHALL ALSO BE REMOVED AND THE COST SHALL BE INCLUDED IN ITEM 529.15.
4. THE STEEL BEAMS USED FOR THE EXISTING TEMPORARY BRIDGE ARE COATED WITH A MATERIAL THAT MAY CONTAIN LEAD AND THE EXISTING TIMBERS IN THE TEMPORARY BRIDGE MAY CONTAIN HAZARDOUS WOOD PRESERVATIVES. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE STATE, ITS OFFICERS, AND EMPLOYEES HARMLESS REGARDING THE CONTRACTOR'S HANDLING OF THESE MATERIALS AND SUBSEQUENT USE, RE-USE, OR DISPOSAL OF THESE BEAMS AND TIMBERS.

STRUCTURAL LUMBER AND TIMBER NOTES:

1. NAIL LAMINATED DECKING SHALL BE TREATED, S-P-F GRADE NO 2 OR BETTER (DRESSED). ALL COST SHALL BE INCLUDED UNDER ITEM 522.25, "STRUCTURAL LUMBER AND TIMBER, TREATED." TREATMENT FOR DECKING SHALL CONFORM TO A TYPE II PRESERVATIVE PER SECTION 726.
2. THE NAIL LAMINATED DECKING SHALL BE ATTACHED TO THE SUPPORTING STEEL FLANGES WITH THE APPROVED GALVANIZED METAL CLIPS. COST WILL BE INCIDENTAL TO ITEM 522.25.
3. TIMBER CURB, RISER BLOCKING, AND CURB BLOCKS SHALL BE TREATED WOOD, GRADE NO 1 OR BETTER. COST SHALL BE INCLUDED IN ITEM 522.25. TREATMENT FOR CURB AND BLOCKING SHALL CONFORM TO A TYPE II PRESERVATIVE PER SECTION 726.
4. TRUSS CHORD TIMBER SHALL BE EASTERN SPRUCE, GRADE NO 1 OR BETTER (FULL SAWN). OTHER LUMBER OR TIMBER SHALL BE EASTERN HEMLOCK, GRADE NO 1 OR BETTER (FULL SAWN) UNLESS OTHERWISE NOTED. ALL COST SHALL BE INCLUDED UNDER ITEM 522.20, "STRUCTURAL LUMBER AND TIMBER, UNTREATED". IF THE SPECIFIED SEASONED WOOD IS NOT READILY AVAILABLE IN A MANNER THAT ACCOMMODATES THE CONSTRUCTION SCHEDULE, ALTERNATIVE SEASONED WOOD SPECIES MAY BE SUBMITTED TO THE AGENCY FOR CONSIDERATION. NAILERS 2" OR MORE IN THICKNESS SHALL BE EASTERN (LOCAL) MATERIAL, GRADE #1 OR BETTER.
5. HARDWOOD TIMBER AND LUMBER NOTED IN THE PLANS SHALL BE UNTREATED, SEASONED WHITE OAK, GRADE NO 1 OR BETTER (FULL SAWN). ALTERNATIVE UNTREATED, SEASONED HARDWOOD SPECIES MAY BE SUBMITTED TO THE AGENCY FOR CONSIDERATION. COST SHALL BE INCLUDED UNDER ITEM 522.20.
6. WOOD DOWELS OR TRUNNELS AND WEDGES SHALL BE RETAINED UNLESS THEY ARE DAMAGED, DETERIORATED, OR LOOSE. DOWELS OR WEDGES THAT ARE MISSING OR REQUIRE REPLACEMENT SHALL BE REPLACED IN-KIND WITH UNTREATED, SEASONED WHITE OAK, GRADE NO 1 OR BETTER AND SHALL BE SIZED TO FIT TIGHTLY AND SECURE. PAYMENT WILL BE INCIDENTAL TO ITEM 522.20.
7. WHERE NOT SPECIFIED, ALL LUMBER AND TIMBER DIMENSIONS ARE IN INCHES.
8. ALL DIMENSIONAL LUMBER, AS INDICATED BY 1" OR 2" THICKNESS, SHALL BE ~~NOMINAL~~ (DRESSED) AND ALL OTHER LUMBER SHALL BE FULL WIDTH AND THICKNESS (FULL-SAWN) UNLESS OTHERWISE NOTED. (S4S)  
NOTE: REPLACED WITH CONTRACT SP#62.

COVERED BRIDGE REHABILITATION NOTES:

1. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO NOT DAMAGE ANY PORTIONS OF THE EXISTING COVERED BRIDGE THAT ARE RETAINED DURING THE REHABILITATION PROJECT.
2. ITEM 900.645, SPECIAL PROVISION (INCORPORATING SALVAGED BRIDGE COMPONENTS) SHALL INCLUDE ALL COSTS ASSOCIATED WITH HANDLING, TRANSPORTING, AND ERECTING THE COVERED BRIDGE. THIS ITEM SHALL ALSO INCLUDE ALL COSTS ASSOCIATED WITH TIMBER MODIFICATIONS/REMOVAL/DISPOSAL AND THE PROTECTION/REUSE OF ALL SALVAGED TIMBER AND HARDWARE. THE EXISTING COVERED BRIDGE TIMBERS MAY CONTAIN HAZARDOUS WOOD PRESERVATIVES. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE STATE, ITS OFFICERS, AND EMPLOYEES HARMLESS REGARDING THE CONTRACTOR'S HANDLING OF THESE MATERIALS AND SUBSEQUENT USE, RE-USE, OR DISPOSAL OF THESE TIMBERS.
3. NEW SIDING BOARDS, TRIM, AND NAILERS (LESS THAN 2" THICK) SHALL BE INCLUDED IN ITEM 522.30, "NONSTRUCTURAL LUMBER, UNTREATED." NAILERS 2" OR MORE IN THICKNESS SHALL BE INCLUDED IN ITEM 522.20, "STRUCTURAL LUMBER AND TIMBER, UNTREATED." EXPOSED SIDING SHALL BE PRIMED AND PAINTED RED. ROOFING AND EYE TRIM SHALL BE PRIMED AND PAINTED RED. SEE SPECIAL PROVISIONS FOR TIMBER PAINTING INFORMATION AND REQUIREMENTS.
4. NEW ROOFING SHALL PAID UNDER SPECIAL PROVISION ITEM 900.670. NEW RAFTERS, RAFTER TAILS, COLLAR BOARDS, AND ANY ROOFING BOARDS THAT REQUIRE REPLACEMENT, AS DETERMINED BY THE ENGINEER, SHALL BE PAID UNDER ITEM 522.20. RAFTERS, RAFTER TAILS, ROOFING BOARDS AND COLLAR BOARDS SHALL BE EASTERN (LOCAL) MATERIAL, GRADE #1 OR BETTER.
5. COVERED BRIDGE LUMBER AND TIMBER SHALL BE CLEANED AND COATED WITH INSECTICIDE/FUNGICIDE AND A FIRE RETARDANT. COST SHALL BE INCLUDED UNDER THE APPROPRIATE SPECIAL PROVISION ITEM 900.645.
6. THE CONTRACTOR MAY TEMPORARILY SUPPORT OR BRACE THE TIMBER TRUSSES TO THE NEW FLOOR SYSTEM DURING THE ASSEMBLY OF THE COVERED BRIDGE UNTIL THE BRIDGE IS SUFFICIENTLY STABLE. CONSTRUCTION DRAWINGS OF TEMPORARY SUPPORT DETAILS SHALL BE SUBMITTED TO THE AGENCY FOR APPROVAL IN ACCORDANCE WITH SUBSECTION 105.03. ALL TEMPORARY SUPPORTS SHALL BE REMOVED PRIOR TO OPENING THE BRIDGE TO VEHICULAR TRAFFIC. COST SHALL BE INCLUDED IN ITEM 900.645 SPECIAL PROVISION (INCORPORATING SALVAGED BRIDGE COMPONENTS).
7. STRUCTURAL TIMBER AND LUMBER CONSTRUCTION SHALL BE PERFORMED IN A "NO LOAD" CONDITION WHERE PRACTICAL.
8. THE TERM "REPLACE IN-KIND", AS USED IN THESE PLANS, SHALL MEAN REPLACEMENT OF AN EXISTING MEMBER WITH A MEMBER IDENTICAL IN DIMENSION AND CONFIGURATION AS THE MEMBER ORIGINALLY USED IN THE STRUCTURE (INCLUDING MORTISES, TENONS, NOTCHES, HOLES, FIT TOLERANCES, SURFACE (DRESSED OR ROUGH), ETC.). THE CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE ENGINEER PRIOR TO FABRICATING A REPLACEMENT MEMBER WHEN THE EXTENTS OF DETERIORATION OR MODIFICATIONS MAKE THE DIMENSIONS OR CONFIGURATION OF THE ORIGINAL MEMBER UNCLEAR.

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DESIGNED BY: S.HODGSON	CHECKED BY: K.ZIENKIEWICZ
GENERAL NOTES	SHEET 25 OF 39

