

GENERAL

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 2014, AND THEIR LATEST REVISIONS.
- ALL DIMENSIONS SHOWN IN THE PLANS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES FAHRENHEIT, UNLESS NOTED OTHERWISE.
- EMULSIFIED ASPHALT SHALL BE APPLIED TO ALL COLD PLANED SURFACES AT A RATE OF 0.080 GAL/SY AND BETWEEN EACH LIFT OF PAVEMENT AT A RATE OF 0.040 GAL/SY OR AS DIRECTED BY THE ENGINEER AND WILL BE PAID FOR UNDER ITEM 404.65, EMULSIFIED ASPHALT.
- ANY REQUIRED SAWCUT OF EXISTING PAVEMENT WILL BE CONSIDERED INCIDENTAL TO THE WEARING COURSE PAY ITEM 900.680, "SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)".
- THE CONTRACTOR SHALL BE MADE AWARE THAT EXISTING UTILITIES ARE WITHIN THE CONSTRUCTION LIMITS OF BRIDGE 6. THE UTILITIES WILL BE RELOCATED BY OTHERS PRIOR TO THE START OF CONSTRUCTION EXCEPT THE WATER LINE RUNNING PARALLEL TO THE NORTHERN WINGWALLS THAT WILL REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION. NO CLAIMS ARE MADE AS TO THE ACCURACY OR COMPLETENESS OF THE UTILITIES SHOWN. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING AND PROTECTING FROM DAMAGE ALL UTILITIES ON SITE DURING ALL STAGES OF CONSTRUCTION.
- THE EXISTING WATER LINE RUNNING PARALLEL TO THE NORTHERN WINGWALLS WILL NEED TO BE TEMPORARILY SUPPORTED, PROTECTED, AND INSULATED DURING CONSTRUCTION. THE COST TO TEMPORARILY SUPPORT, PROTECT, AND INSULATE THE EXISTING WATER LINE WILL BE PAID FOR UNDER ITEM 900.645, "SPECIAL PROVISION (TEMPORARY SUPPORT OF WATER MAIN)".

GEOTECHNICAL INSTRUMENTATION AND SETTLEMENT:

- GEOTECHNICAL/MONITORING INSTRUMENTATION SHALL BE PROVIDED, INSTALLED, AND MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AS SHOWN ON PLAN SHEET 32. THE INSTRUMENTATION WILL BE PAID FOR UNDER ITEM 900.620, "SPECIAL PROVISION (SETTLEMENT PLATFORM, TYPE I)", ITEM 900.620, "SPECIAL PROVISION (SETTLEMENT PLATFORM, TYPE IV)", OR ITEM 900.620, "SPECIAL PROVISION (PIEZOMETER, VIBRATING WIRE)", AS APPROPRIATE.

EARTHWORK

- REMOVAL OF THE EXISTING STRUCTURE WILL BE PAID FOR UNDER ITEM 529.15, "REMOVAL OF STRUCTURE". THIS WORK SHALL INCLUDE REMOVAL OF ANY PORTIONS OF THE EXISTING STRUCTURE, INCLUDING THE SUPERSTRUCTURE, ABUTMENTS, PIERS, WINGWALLS, AND RETAINING WALLS THAT FALL OUTSIDE THE LIMIT OF STRUCTURE EXCAVATION. ALL EXISTING STRUCTURAL ELEMENTS INCLUDING THE ABUTMENTS AND PIERS SHALL BE REMOVED IN THEIR ENTIRETY.
- ALL EXCAVATION AND BACKFILLING SHALL BE CONDUCTED IN DRY CONDITIONS. DEWATERING SHALL BE CONTINUOUS UNTIL THE GALVANIZED STEEL STRUCTURAL PLATE STRUCTURE, WINGWALLS, AND RETAINING WALL ARE BACKFILLED TO THE SURROUNDING WATER TABLE, UNLESS OTHERWISE NOTED. WATER IS EVIDENT AT THE PROJECT SITE AND ADEQUATE WATER CONTROL WILL BE REQUIRED.

MISCELLANEOUS

- ALL STEEL COMPONENTS OF BRIDGE RAILING, APPROACH RAILING, AND GUARDRAIL SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. COMPONENTS SHALL BE POWDER COATED BLACK IN ACCORDANCE WITH ASTM D 7803 WITH TYPE A CERTIFICATION.

CONCRETE AND REINFORCING STEEL

- ITEM 514.10, "WATER REPELLENT, SILANE", SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES TO 1'-0" BELOW GRADE EXCEPT THE PATTERNED FACES OF THE VIST-A-WALLS PER NOTE 29 ON SHEET 10. THIS WORK WILL BE PAID FOR UNDER ITEM 514.10, "WATER REPELLENT, SILANE".
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" X 1", UNLESS OTHERWISE NOTED.
- MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
 - a. CAST AGAINST EARTH: 3.0 INCH
 - b. EXPOSURE TO DEICING SALTS 3.0 INCH
 - c. WALL FACES NOT EXPOSED TO DEICING SALTS: 2.0 INCH
 - d. ELSEWHERE UNLESS OTHERWISE INDICATED: 3.0 INCH
- TEST BARS SHALL BE PROVIDED IN ACCORDANCE WITH THE "VERMONT AGENCY OF TRANSPORTATION MATERIALS SAMPLING MANUAL" AVAILABLE ON THE AGENCY WEBSITE.

STRUCTURAL ELEMENTS

- THE PROJECT SHALL UTILIZE THE BIG R BRIDGE SUPER COR DEEP CORRUGATED STRUCTURAL PLATE BURIED ARCH FOR THE BRIDGE REPLACEMENT AND THE BIG R BRIDGE VIST-A-WALL SYSTEM FOR THE WINGWALLS AND DRIVE RETAINING WALL. SEE THE BIG R BRIDGE SUPER COR ARCH AND VIST-A-WALL PLANS INCLUDED FOR REFERENCE AT THE BACK OF THE CONTRACT PLANS.
- THE CONTRACTOR SHALL PROVIDE EQUIPMENT CAPABLE OF UNLOADING, LIFTING, AND PLACING STRUCTURAL PLATES AND VIST-A-WALL ELEMENTS IN ACCORDANCE WITH THE INFORMATION PROVIDED BY BIG R BRIDGE, AND THE PRECAST CONCRETE ELEMENTS IN ACCORDANCE WITH THE PRECAST CONCRETE MANUFACTURER'S REPRESENTATIVE. COST WILL BE CONSIDERED INCIDENTAL TO ITEM 900.645, "SPECIAL PROVISION (CORRUGATED STEEL BURIED BRIDGE, 47'-11" X 26'-9" X 40'-3") (SUPER COR ARCH)", ITEM 900.670, "SPECIAL PROVISION (MECHANICALLY STABILIZED EARTH RETAINING WALL, VIST-A-WALL)", OR THE APPLICABLE PRECAST CONCRETE PAY ITEM, AS APPROPRIATE.
- THE CONTRACTOR SHALL FOLLOW BIG R BRIDGE RECOMMENDATIONS REGARDING BACKFILL AND COMPACTION LIMITS, PROPERTIES, AND PROCEDURES, INCLUDING RESTRICTIONS OF CONSTRUCTION MACHINERY AND OPERATIONS.
- ANY DAMAGE TO THE STRUCTURAL PLATES, VIST-A-WALL ELEMENTS, OR PRECAST CONCRETE ELEMENTS DUE DIRECTLY TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.

18A. THE STEEL FRAMING IN THE EXISTING BRIDGE IS PAINTED WITH A MATERIAL WHICH MAY CONTAIN LEAD. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE REGULATIONS WHEN HANDLING AND WORKING WITH THIS STEEL. THE REMOVED STRUCTURAL STEEL 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 DISPOSAL OF THE REMOVED EXISTING STRUCTURAL STEEL.

REVISION	DATE	DESCRIPTION	BY
2	12-05-2016	ADD NOTE	SRB

STRUCTURAL ELEMENT	CONCRETE		REINFORCING STEEL	
	CONTRACT ITEM:	TO MEET THE REQUIREMENTS FOR:	TO MEET THE REQUIREMENTS FOR:	PAYMENT TO BE INCLUDED IN:
PRECAST CONCRETE RAIL SUPPORT SLABS*	ITEM 540.10, "PRECAST CONCRETE STRUCTURE (RAIL SUPPORT SLAB)" OR ITEM 900.645, "SPECIAL PROVISION (CONTRACTOR-FABRICATED PRECAST CONCRETE STRUCTURE) (RAIL SUPPORT SLAB)" (OPTION ITEM)	SECTION 540	REINFORCING STEEL, LEVEL I EPOXY COATED	ITEM 540.10, "PRECAST CONCRETE STRUCTURE (RAIL SUPPORT SLAB)" OR ITEM 900.645, "SPECIAL PROVISION (CONTRACTOR-FABRICATED PRECAST CONCRETE STRUCTURE) (RAIL SUPPORT SLAB)" (OPTION ITEM)
PRECAST CONCRETE CAPS*	ITEM 540.10, "PRECAST CONCRETE STRUCTURE (WALL CAP)" OR ITEM 900.645, "SPECIAL PROVISION (CONTRACTOR-FABRICATED PRECAST CONCRETE STRUCTURE) (WALL CAP)" (OPTION ITEM)	SECTION 540	REINFORCING STEEL, LEVEL I EPOXY COATED	ITEM 540.10, "PRECAST CONCRETE STRUCTURE (WALL CAP)" OR ITEM 900.645, "SPECIAL PROVISION (CONTRACTOR-FABRICATED PRECAST CONCRETE STRUCTURE) (WALL CAP)" (OPTION ITEM)
CAST-IN-PLACE CONCRETE ARCH COLLAR & ARCH COLLAR/WALL CAP COMBINATION	ITEM 501.33, "CONCRETE, HIGH PERFORMANCE CLASS A"	CONCRETE, HIGH PERFORMANCE CLASS A	REINFORCING STEEL, LEVEL I EPOXY COATED	ITEM 507.11, "REINFORCING STEEL, LEVEL I"
PRECAST CONCRETE SPREAD FOOTINGS*	ITEM 540.10, "PRECAST CONCRETE STRUCTURE (SPREAD FOOTING)" OR ITEM 900.645, "SPECIAL PROVISION (CONTRACTOR-FABRICATED PRECAST CONCRETE STRUCTURE) (SPREAD FOOTING)" (OPTION ITEM)	SECTION 540	REINFORCING STEEL, LEVEL I	ITEM 540.10, "PRECAST CONCRETE STRUCTURE (SPREAD FOOTING)" OR ITEM 900.645, "SPECIAL PROVISION (CONTRACTOR-FABRICATED PRECAST CONCRETE STRUCTURE) (SPREAD FOOTING)" (OPTION ITEM)
BRIDGE RAILING, GALVANIZED STEEL TUBING/CONCRETE COMBINATION (COATED BLACK)	ITEM 525.45, "BRIDGE RAILING, GALVANIZED STEEL TUBING/CONCRETE COMBINATION (COATED BLACK)"	SECTION 525	REINFORCING STEEL, LEVEL III	ITEM 525.45, "BRIDGE RAILING, GALVANIZED STEEL TUBING/CONCRETE COMBINATION (COATED BLACK)"

* ALL PRECAST CONCRETE ELEMENTS SHALL BE FABRICATED TO THE SPECIFIED DIMENSIONS WITHIN THE TOLERANCES DICTATED IN THE PRECAST/PRESTRESSED CONCRETE INSTITUTE TOLERANCE MANUAL FOR PRECAST AND PRESTRESSED CONCRETE CONSTRUCTION, MNL 135-00, AND ITS LATEST REVISIONS.

PROJECT NAME: ST. JOHNSBURY
 PROJECT NUMBER: BF 7000(20)
 FILE NAME: 86e048/cos/z86e048gennotes.dgn PLOT DATE: 11/30/2016
 PROJECT LEADER: J. BYATT DRAWN BY: M. SMITH
 DESIGNED BY: S. BEAUMONT CHECKED BY: A. GIRALDI
 PROJECT NOTES SHEET 1 SHEET 9 OF 70

