

GENERAL

1. THE CONTRACTOR WILL BE ALLOWED TO CLOSE THE ROAD TO TRAFFIC FOR A MAXIMUM OF 21 CONSECUTIVE DAYS FOR INSTALLATION OF THE NEW STRUCTURE.
2. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AND ITS LATEST REVISIONS, THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 2012, AND ITS LATEST REVISIONS, AND THE VTRANS STRUCTURES DESIGN MANUAL.
3. ALL PRECAST CONCRETE COMPONENTS INCLUDING THE FOOTINGS, PEDESTAL WALLS, RIGID FRAME OR ARCH, HEADWALLS, WINGWALLS AND ALL CONNECTIONS BETWEEN THESE COMPONENTS SHALL BE DESIGNED BY THE PRECAST FABRICATOR. THE SOIL PROPERTIES AND DESIGN PARAMETERS USED FOR THIS PROJECT ARE AS INDICATED BELOW.
4. DESIGN CRITERIA:

DESIGN LIVE LOAD: FILL OVER THE STRUCTURE:	HL - 93 6 INCHES MINIMUM
FOUNDATION SOIL PARAMETERS UNIT WEIGHT: FRICTION ANGLE:	125 PCF 36 DEGREES
COEFFICIENT OF FRICTION FORMED CONCRETE AGAINST SOIL:	0.35
RETAINED SOIL PARAMETERS UNIT WEIGHT: FRICTION ANGLE:	140 PCF 35 DEGREES
COEFFICIENT OF FRICTION CONCRETE CAST AGAINST SOIL: FORMED AGAINST SOIL:	0.55 0.45
NOMINAL BEARING RESISTANCE:	10 KSF FOR FOOTING WIDTHS > 6 FT
5. ALL DIMENSIONS SHOWN IN THE PLANS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES FAHRENHEIT, UNLESS NOTED OTHERWISE.
6. ITEM 529.15 "REMOVAL OF STRUCTURE" SHALL BE USED FOR REMOVAL OF THE EXISTING BRIDGE SUPERSTRUCTURE AND THE ABUTMENTS AND WINGWALLS, INCLUDING THE EXISTING RETAINING WALL AS DETAILED IN THE PLANS.
7. DEWATERING SHALL BE INCLUDED IN ITEM 208.40, "COFFERDAM".
8. THE DESIGN SHALL INCLUDE THE EFFECTS OF ALL LOADS, NOT LIMITED TO LIVE LOAD, EARTH SURCHARGE AND HYDROSTATIC PRESSURE.
9. THE FABRICATOR SHALL BE RESPONSIBLE FOR SUPPLYING THE STATE WITH THE LRFR LOAD RATING FACTORS TO COMPLETE THE CHART SHOWN ON THE PRELIMINARY INFORMATION SHEET.

CONCRETE

10. THE RIGID FRAME OR ARCH, HEADWALLS AND WINGWALLS SHALL BE PRECAST CONCRETE CONFORMING TO SECTION 540 OF THE SPECIFICATIONS AND SHALL MEET THE DIMENSIONS INDICATED IN THE PLANS. ALL PRECAST COMPONENTS OF THE STRUCTURE WILL BE PAID FOR UNDER ITEM 541.10 "PRECAST CONCRETE STRUCTURE (34'-0" x 7'-0" x 25'-4" FRAME OR ARCH TYPE).
11. ALL ELEMENTS OF THE PRECAST STRUCTURE(S) SHALL BE DESIGNED BY THE PRECAST SUPPLIER, INCLUDING THE ANCHORAGE AND CONNECTIONS BETWEEN ELEMENTS. ALL ELEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE FABRICATORS RECOMMENDATIONS. THE CONTRACTOR SHALL SUBMIT FABRICATION DRAWINGS FOR THE PRECAST RIGID FRAME OR ARCH IN ACCORDANCE WITH SECTION 105. IN ADDITION TO FABRICATION DRAWINGS, THE FABRICATOR SHALL PROVIDE A LOAD RATING AND SUPPORTING CALCULATIONS IN ACCORDANCE WITH THE AASHTO SPECIFICATIONS REFERENCED IN GENERAL NOTE 1 AND THE VTRANS STRUCTURES DESIGN MANUAL, 2010 WHICH PROVIDES SPECIFIC LOAD RATING INSTRUCTIONS. THE RATING AND SUPPORTING CALCULATIONS SHALL BE SIGNED, STAMPED AND DATED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE ENGINEERING IN THE STATE OF VERMONT. NOTE THAT THE FABRICATOR ASSUMES ALL LIABILITY FOR THE ADEQUACY AND ACCURACY OF THE RIGID FRAME OR ARCH DESIGN AND LOAD RATING.
12. WATER REPELLENT, SILANE SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 514 AND SHALL BE SHOP APPLIED TO ALL EXPOSED CONCRETE SURFACES, EXCEPT THE UNDERSIDE OF THE STRUCTURE BETWEEN THE DRIP NOTCHES. ALL WORK IS INCIDENTAL TO THE BID ITEM 540.10 "PRECAST CONCRETE STRUCTURE (34'-0" x 7'-0" x 25'-4" FRAME OR ARCH TYPE).
13. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" x 1".
14. REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE:

SPACING:	+/- 1 INCH
CLEARANCE:	+/- 1/4 INCH
15. PRECAST TOLERANCES:

HEIGHT/WIDTH:	+/- 1/4 INCH
LENGTH:	+/- 1/2 INCH
16. ALL REINFORCING STEEL IN THE PRECAST PEDESTAL WALLS AND FOOTINGS SHALL BE LEVEL I.
17. ALL REINFORCING STEEL IN THE PRECAST RIGID FRAME OR ARCH, WINGWALLS AND HEADWALLS SHALL BE LEVEL II.

18. THE PROPOSED STRUCTURE SHALL BE A THREE-SIDED RIGID FRAME OR ARCH WITH A MINIMUM CLEAR SPAN OF 32'. THE LUMP SUM COST FOR ITEM 540.10 "PRECAST CONCRETE STRUCTURE (34'-0" x 7'-0" x 25'-4" FRAME OR ARCH TYPE) SHALL INCLUDE THE PRECAST RIGID FRAME OR ARCH, WINGWALLS AND MECHANICAL CONNECTIONS.
19. THE PRECAST STRUCTURE DETAILS ARE SHOWN FOR REFERENCE ONLY. THE ACTUAL DIMENSIONS AND CONFIGURATION WILL BE DEPENDENT ON THE FABRICATOR. THE INSIDE CLEAR DIMENSION SHALL BE 32' - 0" AND THE RISE SHALL BE 8' - 0".
20. NO HOLES SHALL BE DRILLED IN THE RIGID FRAME OR ARCH WITH OUT THE APPROVAL OF THE FABRICATOR AND THE AGENCY.
21. THE USE OF EQUIPMENT AND THE METHOD OF BACKFILLING AROUND THE BURIED STRUCTURE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. CARE SHALL BE TAKEN WHEN BACKFILLING AGAINST JOINT SEALING MATERIALS.
22. JOINTS BETWEEN ALL ABUTTING PRECAST UNITS SHALL BE WATERTIGHT AND MECHANICALLY CONNECTED.

TRAFFIC CONTROL

23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF A SITE SPECIFIC TRAFFIC CONTROL PLAN FOR ALL STAGES OF CONSTRUCTION. THE PLAN SHALL CLEARLY DETAIL HOW TRAFFIC WILL BE MAINTAINED PRIOR TO, DURING AND AFTER THE CLOSURE PERIOD AND SHALL INCLUDE ALTERNATING ONE-WAY TRAFFIC THROUGH THE PROJECT WITH APPROPRIATE SIGNAGE. THE CONTRACTOR SHALL SUBMIT DETAILED TRAFFIC CONTROL PLANS TO THE RESIDENT ENGINEER FOR APPROVAL PER SUBSECTION 105.03. ALL COSTS SHALL BE INCLUDED IN ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).

PROJECT NAME: WOODSTOCK
PROJECT NUMBER: BRO 1444(55)

FILE NAME: s95j294note.dgn	PLOT DATE: 13-FEB-2013
PROJECT LEADER: K. HIGGINS	DRAWN BY: J. SALVATORI
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GENERAL NOTES	SHEET 3 OF 28