

**GENERAL NOTES**

- 1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011, AND ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 6th EDITION, AND ITS LATEST REVISIONS.
- 2. THE CONTRACTOR WILL BE ALLOWED TO CLOSE THE BRIDGE FOR ONE WEEKEND (TWO CONSECUTIVE DAYS) BEGINNING ON A FRIDAY AT 6PM AND ENDING THE FOLLOWING MONDAY AT 6 AM TO PERFORM REPLACEMENT OF THE EXISTING STRUCTURE. FOLLOWING THE BRIDGE CLOSURE PERIOD, THE PROJECT FACILITY SHALL BE REOPENED TO A MINIMUM OF ONE-LANE, TWO-WAY TRAFFIC. DURING THAT TIME THE CONTRACTOR WILL BE ALLOWED TO WORK 24 HOURS PER DAY. THE CONTRACTOR SHALL SCHEDULE THEIR WORK SUCH THAT THE BRIDGE IS NOT CLOSED DURING HOLIDAY PERIODS. SEE SPECIAL PROVISIONS FOR FURTHER INFORMATION AND REQUIREMENTS.
- 3. THE CONTRACTOR IS TO COORDINATE THE ROAD BRIDGE CLOSURE PERIOD WITH ANY SCHEDULED ROAD CLOSURES OF VERMONT ROUTE 30 ASSOCIATED WITH THE BRATTLEBORO IM 091-1(65) PROJECT. FOR ARRANGEMENTS CONTACT CALEB LINN, PROJECT MANAGER, PCL CIVIL CONSTRUCTORS, INC AT 802-251-0709.
- 4. PREPARATION OF THE SITE WILL BE ALLOWED PRIOR TO THE BRIDGE CLOSURE PERIOD. HOWEVER, EXCAVATION FOR AND PLACEMENT OF BOX SECTIONS SHALL BE PERFORMED DURING BRIDGE CLOSURE PERIOD ONLY.
- 5. ITEM 529.15 "REMOVAL OF STRUCTURE" SHALL BE USED FOR ALL WORK REQUIRED TO REMOVE THE EXISTING CGMPPA UNDER VT 100.
- 6. THE CONTRACTOR IS TO INSTALL TEMPORARY TRAFFIC BARRIER TO REMAIN IN PLACE UNTIL FINAL GRADE IS ESTABLISHED AND PROPOSED GUARDRAIL IS INSTALLED BETWEEN STATIONS 283+50 AND 285+25. PAYMENT WILL BE CONSIDERED INCLUDED IN THE BID PRICE FOR ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).
- 7. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES F UNLESS OTHERWISE NOTED.
- 8. EXCAVATED STREAM BED MATERIAL SUPPLEMENTED WITH STONE FILL, TYPE III SHALL BE PLACED INSIDE THE BOX SECTIONS AND AS SHOWN IN THE PLANS. PAYMENT SHALL BE UNDER ITEM 900.608 SPECIAL PROVISION (STONE FILL, STREAM BED MATERIAL). SEE SPECIAL PROVISIONS.
- 9. CONTRACTOR IS TO CONTACT RIVER MANAGEMENT ENGINEER, TODD MENEES AT 802-345-3510, A MINIMUM OF TWO WEEKS PRIOR TO THE CLOSURE PERIOD FOR APPROVAL OF STREAM BED MATERIAL AND FOR CONSULTATION REGARDING FINAL GRADING OF THE CHANNEL.

**TRAFFIC CONTROL**

- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION 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 BRIDGE CLOSURE PERIOD. THE PLAN SHALL SPECIFY ALL CONSTRUCTION ACTIVITIES REQUIRING ALTERNATING ONE WAY TRAFFIC, RELATE THOSE ACTIVITIES TO THE CONSTRUCTION SCHEDULE AND SHOW APPROPRIATE TEMPORARY TRAFFIC CONTROL. 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). SEE SPECIAL PROVISIONS.
- 11. ALL TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). FOR ADDITIONAL SIGNING INSTRUCTIONS SEE THE T SERIES OF THE STANDARDS. WHERE CONFLICTS EXIST, THE MUTCD SHALL GOVERN.
- 12. INSTALLATION OF TEMPORARY TRAFFIC CONTROL SIGNS SHALL NOT BLOCK ANY EXISTING TRAFFIC CONTROL SIGN ASSEMBLIES. THE CONTRACTOR SHALL TRY TO MAINTAIN AT LEAST 200 FEET BETWEEN SIGN ASSEMBLIES.
- 13. ALL ITEMS REQUIRED TO IMPLEMENT THE CONTRACTOR'S TRAFFIC CONTROL PLAN NOT PAID UNDER A SEPARATE CONTRACT ITEM WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCLUDED IN THE BID PRICE FOR ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).
- 14. DURING DAYLIGHT HOURS OF THE CLOSURE PERIOD, FLAGGERS ARE TO BE STATIONED AT THE INTERSECTIONS OF VT 100/SMEAD ROAD AND SOUTH WARDBORO ROAD/COBB AND REED ROAD.

**PRECAST CONCRETE**

- 15. DESIGN CRITERIA (PRECAST BOX):
  - A. SOIL UNIT WEIGHT = 130 PCF
  - B. DESIGN LIVE LOAD = HL-93
  - C. NOMINAL BEARING RESISTANCE (BEDROCK) = 70 KSF
  - D. NOMINAL BEARING RESISTANCE (GRANULAR BACKFILL) = 20 KSF
  - E. BEARING RESISTANCE FACTOR = 0.45
  - F. DESIGN FILL OVER BOX = 0-2 FEET
  - G. AT-REST EARTH PRESSURE (K<sub>o</sub>) = 0.398
  - H. CONCRETE COMPRESSIVE STRENGTH = SEE SUBSECTION 540.05(e)
- 16. DESIGN CRITERIA (PRECAST WINGWALLS):
  - A. SOIL UNIT WEIGHT = 130 PCF
  - B. DESIGN LIVE LOAD = HL-93
  - C. NOMINAL BEARING RESISTANCE (BEDROCK) = 8 KSF
  - D. NOMINAL BEARING RESISTANCE (GRANULAR BACKFILL) = 20 KSF
  - E. BEARING RESISTANCE FACTOR = 0.45
  - F. DESIGN FILL OVER BOX = N/A
  - G. AT-REST EARTH PRESSURE (K<sub>o</sub>) = 0.398
  - H. CONCRETE COMPRESSIVE STRENGTH = SEE SUBSECTION 540.05(e)
- 17. ALL CONCRETE SHALL BE PRECAST. ITEM 540.10 "PRECAST CONCRETE STRUCTURE" INCLUDES ALL BOX SEGMENTS, HEADWALLS, AND CUTOFF WALLS. ALL CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR AND SHALL BE CONSIDERED INCIDENTAL TO ITEM 540.10.
- 18. THE PRECAST CONCRETE STRUCTURE SHALL BE DESIGNED FOR HYDROSTATIC PRESSURE UNLESS RAPID DRAINING MATERIAL MEETING THE REQUIREMENTS OF SUBSECTION 704.18 IS USED. IF USED, RAPID DRAINING MATERIAL SHALL BE PAID AT THE UNIT PRICE BID FOR ITEM 204.30. NO WEEPHOLES IN THE BOX SECTIONS WILL BE ALLOWED.
- 19. THE PRECAST BOX SECTIONS ARE SHOWN FOR REFERENCE ONLY. THE ACTUAL DIMENSIONS AND SHAPE WILL BE DEPENDENT ON THE FABRICATOR. THE MINIMUM INSIDE DIMENSIONS SHALL BE 8'-0" IN HEIGHT AND 14'-0" IN WIDTH. THE EXPOSED ENDS OF THE FIRST AND LAST UNITS SHALL BE VERTICAL.
- 20. ALL LIFTING HOLES AND BOLT POCKETS SHALL BE FILLED WITH MORTAR TYPE IV AFTER BEING SET IN THEIR FINAL POSITION. THIS WORK WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 540.10. FILLING THE JOINTS BETWEEN BOX SEGMENTS WITH GROUT IS NOT REQUIRED.
- 21. SHEET MEMBRANE WATERPROOFING MEETING THE REQUIREMENTS OF SUBSECTION 540.02 SHALL BE APPLIED TO THE ENTIRE TOP OF THE BOX AND A TWO (2) FOOT WIDE STRIP SHALL BE PLACED AT EACH VERTICAL JOINT. MEMBRANE SHALL BE CENTERED ON THE JOINT AND COVER THE FULL HEIGHT. THE SIDES SHALL BE COVERED PRIOR TO THE TOP. ANY OVERLAPPING OF MEMBRANE SHALL BE DONE IN A SHINGLE TYPE STYLE TO SHED WATER AND SHALL OVERLAP A MINIMUM OF ONE FOOT. PAYMENT FOR MEMBRANE WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 540.10.
- 22. WATER REPELLENT, SILANE SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 514 AND SHALL BE SHOP APPLIED TO ALL EXPOSED EXTERIOR SURFACES OF THE PRECAST CONCRETE STRUCTURE. PAYMENT FOR SILANE WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 540.10.

**REINFORCING STEEL**

- 23. ALL REINFORCING STEEL SHALL BE LEVEL I (EPOXY COATED) REINFORCING STEEL IN ACCORDANCE WITH SECTION 507. PAYMENT FOR ALL REINFORCING STEEL WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 540.10.
- 24. ALL REINFORCING STEEL SHALL HAVE A MINIMUM CLEAR COVER OF 2".
- 25. REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE AS FOLLOWS:
  - SPACING +/- 1"
  - CLEARANCE +/- ¼"

PROJECT NAME:	WARDSBORO
PROJECT NUMBER:	BF 013-1(22)
FILE NAME: sl3b074gen.dgn	PLOT DATE: 17-MAR-2014
PROJECT LEADER: K. HIGGINS	DRAWN BY: J. SALVATORI
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