

GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AND ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOURTH EDITION, DATED 2007, AND ITS LATEST REVISIONS. ALSO THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, SECOND EDITION 2004 AND ALL ITS INTERIMS.
2. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL, AND ARE GIVEN AT 68° FAHRENHEIT, UNLESS NOTED OTHERWISE.
3. IT IS EXPECTED THAT CULVERT LINING, HEADWALL AND STONE FILL WILL BE THE EXTENT OF THE WORK. DURING THE COURSE OF CONSTRUCTION, IF THE CONTRACTOR SEES AN AREA OF CONCERN, SUCH AS VOIDS AROUND THE EXISTING CULVERT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE ENGINEER SHALL MAKE A DETERMINATION AS TO THE NEED FOR FURTHER EXPLORATION. ANY FURTHER EXCAVATION SHALL BE EXTRA WORK.
4. AN ESTIMATED AMOUNT OF 5 CY OF ITEM 541.30 "CONCRETE CLASS D" HAS BEEN ADDED FOR THE FILLING OF VOIDS FOUND IN THE BACKFILL MATERIAL BELOW THE EXISTING PIPE.
5. IF ANY TEMPORARY BRACING, SHEETING, OR OTHER MEANS OF SUPPORTING THE EXCAVATION ARE NEEDED. IT SHALL BE CONSIDERED INCIDENTAL TO 204.25 "STRUCTURE EXCAVATION".
6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SILTATION OR POLLUTION ESPECIALLY THE DISCHARGE OF RAW CONCRETE INTO THE WATERS OF THE STATE AS DIRECTED BY THE RESIDENT ENGINEER AND STANDARD SPECIFICATIONS SECTION 105. SHOULD CHANGES PRIOR TO OR DURING CONSTRUCTION RESULT IN A TOTAL SITE DISTURBANCE OF MORE THAN ONE ACRE OR SHOULD THE PROJECT BECOME PART OF A LARGER DEVELOPMENT PLAN THEN THE SELECTED CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL PERMITTING WITH VANR VIA FILING OF THE APPROPRIATE NOTICE OF INTENT UNDER THE CONSTRUCTION GENERAL PERMIT PROCESS.

PIPE RESTORATION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY ACCESS TO THE CULVERT RESTORATION SITE. ACCESS ROAD AND STAGING AREA SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 105.23(L). ALL RESULTING DISTURBED EARTH SHALL BE STABILIZED AND RESTORED UPON COMPLETION OF CONSTRUCTION. PAYMENT FOR WORK SHALL BE PAID FOR UNDER ITEM 900.645 "SPECIAL PROVISION (TEMPORARY ACCESS ROAD AND STAGING AREAS, CULVERT)".
2. THE EXISTING LAID UP STONE HEADWALL AT THE INLET SHALL BE REMOVED AND A NEW CONCRETE HEADWALL SHALL BE CONSTRUCTED. SEE "HEADWALL DETAILS" SHEET FOR NEW HEADWALL DETAILS.
3. THE EXISTING CRADLE HEADWALL AT THE OUTLET SHALL BE RETAINED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF THE EXISTING PIPE TO THE SATISFACTION OF THE ENGINEER. IT IS ANTICIPATED THAT IT WILL BE NECESSARY FOR THE CONTRACTOR TO REMOVE SEDIMENT, LARGE STONES, AND/OR DEBRIS FROM INSIDE THE EXISTING CULVERT PRIOR TO INSTALLING THE NEW PIPE. ALL WORK ASSOCIATED WITH PREPARING EXISTING PIPE WILL BE INCIDENTAL TO PAY ITEM 900.640 "SPECIAL PROVISION (ALUMINUM PIPE LINER) (60)".
5. THE CONTRACTOR SHALL DEVELOP A SYSTEM OF SKIDS AND BLOCKING TO HOLD THE LINER IN PROPER POSITION DURING GROUTING OPERATIONS. THIS SHALL BE INCIDENTAL TO PAY ITEM 900.640 "SPECIAL PROVISION (ALUMINUM PIPE LINER) (60)".
6. THE NEW ALUMINUM PIPE SHALL BE COATED ON THE EXTERIOR WITH CHROMATE FREE PRIMER, THE COST FOR THIS SHALL BE INCIDENTAL TO PAY ITEM 900.640 "SPECIAL PROVISION (ALUMINUM PIPE LINER) (60)".
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PRIMER COATING ON THE PIPE EXTERIOR. ANY DAMAGE TO THE COAT SHALL BE REPAIRED BY THE CONTRACTOR, AND SHALL BE AT THE SOLE COST OF THE CONTRACTOR.
8. THE INSTALLATION OF THE PIPE LINER AND CONSTRUCTION OF THE NEW HEADWALL SHALL BE DONE IN THE DRY. CONTROL OF WATER SHALL BE PAID UNDER PAY ITEM 900.645 "SPECIAL PROVISION, (TEMPORARY RELOCATION OF STREAM)". STANDING OR FLOWING WATER SHALL NOT BE PRESENT DURING GROUTING OR THE FILLING OF VOIDS.

9. STONE FILL; TYPE IV SHALL BE USED TO REPLACE THE EXCAVATED CHANNEL AT THE INLET.
10. FABRICATION DRAWINGS, CONFORMING TO SECTION 105.03, FOR THE CULVERT LINER SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AT LEAST TWO WEEKS PRIOR TO THE WORK COMMENCING.

CONCRETE NOTES

1. CONCRETE FOR THE INLET HEADWALL SHALL BE ITEM 541.25, "CONCRETE, CLASS B".
2. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" x 1" UNLESS NOTED
3. THE CONCRETE CONSTRUCTION JOINT SHALL HAVE A RAKED FINISH. SEE SHEET 9 FOR DETAILS.
4. WATER REPELLANT, SILANE SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES, PAYMENT SHALL BE MADE AS ITEM 514.10 "WATER REPELLANT, SILANE"
5. MINIMUM CLEAR COVER FOR THE REINFORCING STEEL SHALL BE 2" FOR ANY STEEL ALONG BACK FACES OF WALLS AGAINST EARTH, 3" ELSEWHERE UNLESS OTHERWISE INDICATED.
6. REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE:
SPACING: +/- 1"
CLEARANCE: +/- 1/4"

TRAFFIC CONTROL NOTES

1. ALL TRAFFIC CONTROL FOR THIS PROJECT SHALL BE INSTALLED IN ACCORDANCE WITH THE 2009 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND THE VERMONT STATE STANDARD DRAWINGS.
2. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO THE ROADWAY, TRAFFIC, AND SAFETY ENGINEER FOR APPROVAL PER SUBSECTION 105.03 PRIOR TO CONSTRUCTION. THE PLANS SHALL INCLUDE DETAILS FOR MAINTAINING ACCESS TO THE TOWN HIGHWAY (PENNY AVE.), AND PLACEMENT OF FLAGGER STATIONS WITH CONSIDERATION OF SIGHT DISTANCE TO THE FLAGGER AND THE EXPECTED BACK OF QUEUE DUE TO THE HORIZONTAL AND VERTICAL CURVES NEAR THE WORK AREA.
3. TEMPORARY LANE AND/OR SHOULDER CLOSURES WILL BE ALLOWED DURING WORKING HOURS ONLY. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER STATING HOW TWO-WAY TRAFFIC WILL BE MAINTAINED. PAYMENT FOR THIS WILL BE MADE UNDER ITEM 641.10 "TRAFFIC CONTROL" THE ROADWAY SHALL BE RESTORED TO TWO LANE CAPACITY AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES. THIS NOTE ONLY PERTAINS TO DAILY CLOSURES.
4. IF DEEMED NECESSARY BY THE ENGINEER, PROLONGED SHOULDER CLOSURE WILL BE ALLOWED, WITH PAYMENT FOR INSTALLING, RESETTING AND REMOVING ANY TEMPORARY TRAFFIC BARRIERS INCIDENTAL TO ITEM 641.10 "TRAFFIC CONTROL". IF USED, TEMPORARY TRAFFIC BARRIER SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 621.
5. IF PROLONGED SHOULDER CLOSURES ARE DEEMED NECESSARY, PAYMENT FOR INSTALLING AND REMOVING ANY ENERGY ABSORPTION ATTENUATORS SHALL BE INCIDENTAL TO ITEM 641.10 "TRAFFIC CONTROL". IF USED, ENERGY ABSORPTION ATTENUATORS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 621. A BACK UP ATTENUATOR SHALL BE PROVIDED ON SITE IN ACCORDANCE WITH THE SPECIFICATIONS.
6. SIGNS, BARRICADES, AND TRAFFIC CONTROL DEVICES SHALL BE CLEANED WEEKLY AND THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 641.10 "TRAFFIC CONTROL".

EROSION CONTROL NOTES

1. PAYMENT FOR EROSION CONTROL AND SEDIMENT CONTROL MEASURES REQUIRED TO TEMPORARILY OR PERMANENTLY STABILIZE DISTURBED SOILS INCLUDING BUT NOT LIMITED TO TOPSOIL, SEED, FERTILIZER, LIMESTONE, EROSION MATTING, MULCH, AND SILT FENCE NOT PAID UNDER A SEPARATE CONTRACT ITEM WILL BE CONSIDERED INCIDENTAL TO ALL OTHER CONTRACT ITEMS. ALL WORK SHALL BE COMPLETED IN CONFORMANCE WITH SECTION 105 OF THE VTRANS STANDARD SPECIFICATIONS.

PROJECT NAME: STRATTON
PROJECT NUMBER: STP CULV(12)

FILE NAME: s08b058notes.dgn PLOT DATE: 01-JUN-2010
PROJECT LEADER: C.P.WILLIAMS DRAWN BY: D.D.BEARD
DESIGNED BY: H.J.SALLS CHECKED BY: H.J. SALLS
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