

# GENERAL NOTES

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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 (17<sup>TH</sup>) EDITION, AND ITS LATEST REVISIONS.
2. 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 THAT TIME FRAME.
3. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES F UNLESS OTHERWISE NOTED.
4. ITEM 404.65 EMULSIFIED ASPHALT IS TO BE APPLIED AT A RATE OF .015 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAYMENT OR AS DIRECTED BY THE ENGINEER.
5. ITEM 900.625 SPECIAL PROVISION (WATER REPELLENT, SILANE) SHALL BE APPLIED TO ALL EXPOSED SURFACES OF THE WINGWALLS AND HEADWALLS. WATER REPELLENT, SILANE SHALL BE APPLIED TO THE EXPOSED INSIDE SURFACE OF THE BOX STARTING AT THE OPENING AT EACH END AND EXTENDING 3 FEET INTO THE BOX, INCLUDING THE TOP SURFACE OF THE BOTTOM SLAB AND THE BOTTOM SURFACE OF THE TOP SLAB.
6. ITEM 529.15 "REMOVAL OF STRUCTURE" SHALL BE USED FOR REMOVAL OF THE PIPE AND ANY PORTIONS OF THE HEADWALLS AND WINGWALLS NOT REMOVED UNDER THE ITEMS "STRUCTURE EXCAVATION" OR "UNCLASSIFIED CHANNEL EXCAVATION".
7. REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE AS FOLLOWS:  
  
SPACING +/- 1"  
CLEARANCE +/- 1/4"
8. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" X 1".
9. W150 x 13.5 STEEL POSTS AND OFFSET BLOCKS SHALL BE USED WITH HEAVY DUTY STEEL GUARDRAIL.

## TRAFFIC CONTROL

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REGIONAL DETOUR PACKAGE AS SHOWN IN THE PLANS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING THE LOCAL TRAFFIC CONTROL PACKAGE IDENTIFYING THE CONSTRUCTION PROJECT BEFORE, DURING, AND AFTER THE BRIDGE CLOSURE PERIOD. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN TO THE RESIDENT ENGINEER FOR ALL STAGES OF CONSTRUCTION. ALL COSTS SHALL BE INCLUDED IN ITEM 641.10, TRAFFIC CONTROL.
12. ACCESS TO ALL EXISTING DRIVES SHALL BE MAINTAINED AT ALL TIMES DURING ALL PHASES OF CONSTRUCTION.
13. INSTALLATION OF DETOUR SIGNS SHALL NOT BLOCK ANY EXISTING TRAFFIC CONTROL SIGN ASSEMBLIES. THE CONTRACTOR SHALL TRY TO MAINTAIN AT LEAST 200 FEET BETWEEN SIGN ASSEMBLIES.
14. THE CONTRACTOR SHALL CONTACT DIG SAFE AT 1-888-344-7233 PRIOR TO BREAKING GROUND TO INSTALL ANY SIGN POSTS.
15. ALL SIGNS THAT ARE 36" x 36" OR LARGER SHALL BE ON TWO POSTS.

## PRECAST CONCRETE NOTES

16. DESIGN CRITERIA:
  - A. SOIL UNIT WEIGHT = 140 PCF
  - B. DESIGN LIVE LOAD = HS-25-44
  - C. MAX. WINGWALL FOOTING PRESSURE = 4 KSF
  - D. FACTOR OF SAFETY FOR SLIDING  $\geq 2.0$
  - E. FACTOR OF SAFETY FOR OVERTURNING  $\geq 1.5$
  - F. DESIGN FILL OVER BOX = 11 FEET
17. ALL CONCRETE SHALL BE PRECAST. ITEM 540.10 PRECAST CONCRETE STRUCTURE INCLUDES ALL BOX SEGMENTS, HEADWALLS, AND WINGWALLS. ALL CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR AND SHALL BE CONSIDERED INCIDENTAL TO ITEM 540.10. ALL CONNECTIONS MUST BE SUBMITTED TO THE PROJECT MANAGER FOR APPROVAL.
18. THE PRECAST BOX SECTIONS ARE SHOWN FOR REFERENCE ONLY. THE ACTUAL DIMENSIONS AND SHAPE WILL BE DEPENDENT ON THE FABRICATOR. ALL UNITS EXCEPT THE FIRST AND LAST WILL BE THE SAME SHAPE AND THE SAME LENGTH. THE MINIMUM INSIDE DIMENSIONS SHALL BE 9'-0" IN HEIGHT AND 15'-0" IN WIDTH. THE OVERALL LENGTH OF THE BOX SHALL BE 80'-0" ALONG THE STREAMBED GRADE. THE EXPOSED ENDS OF THE FIRST AND LAST UNITS SHALL BE VERTICAL.
19. THE EXTERIOR (TOP AND SIDES) OF ALL CONCRETE BOX JOINTS ALONG WITH ALL LIFTING HOLES SHALL BE FILLED WITH MORTAR TYPE IV AFTER BEING SET IN THEIR FINAL POSITION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 540.10.
20. A TWO (2) FOOT WIDE STRIP OF MEMBRANE WATERPROOFING SHALL BE APPLIED AT EACH BOX JOINT (TOP AND SIDES). MEMBRANE SHALL BE CENTERED ON THE JOINT AND COVER THE FULL WIDTH OF THE TOP AND FULL HEIGHT OF THE SIDES. THE SIDES SHALL BE COVERED FIRST AND THE TOP WILL FOLLOW. 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 SHALL BE UNDER ITEM 519.21 SHEET MEMBRANE WATERPROOFING, PREFORMED SHEET.
21. THE STRUCTURE WILL BE AT A 4.33% GRADE SIMULATING THAT OF THE STREAM.

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PROJECT NAME:	JAY	PLOT DATE:	23-OCT-2006
PROJECT NUMBER:	ST STP CULV (2)	DRAWN BY:	T. FILLBACH
FILE NAME:	04b140\04b140xc1.dgn	DESIGNED BY:	T. FILLBACH
PROJECT LEADER:	W. SYMONDS	CHECKED BY:	T. SUMNER
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