

COUNTY 1235 650 FED. ROAD DIST. ILLINOIS FED. AID PROJECT

DESIGN SPECIFICATIONS

SHEET NO. 1

11 SHEETS

AASHTO 2002 SPECIFICATIONS.

LOADING HS20-44

ALLOW 50*/SQ.FT.FOR FUTURE WEARING SURFACE.

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 PSI fy = 60,000 PSI (REINFORCEMENT)

PRECAST UNITS

f'c = 5,000 PSI fy = 60,000 PSI (REINFORCEMENT)

TOTAL BILL OF MATERIALS		
ITEM	UNIT	QUANTITY
STONE RIPRAP, CLASS A3	TON	90
FILTER FABRIC	SQ.YD.	160
REMOVAL OF EXISTING STRUCTURES NO.5	EACH	/
REINFORCEMENT BARS	POUND	3,294
PARAPET RAILING	FOOT	35
NAME PLATES	EACH	1
CONCRETE BOX CULVERTS	CU. YD.	27.1
PRECAST CONCRETE BOX CULVERT 3' x 2'	FOOT	291.0
TEMPORARY SOIL RETENTION SYSTEM	SQ.FT.	478
TEMPORARY DRANAGE SYSTEM NO.2	FOOT	44

GENERAL NOTES

- I. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60. SEE SPECIAL PROVISIONS.
- 2. CAST-IN-PLACE BARREL SHALL BE POURED MONOLITHICALLY WITH THE WINGWALLS.
- 3. EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER.
- 4. IN ACCORDANCE WITH ARTICLE 540.04 OF THE STANDARD SPECIFICATIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREE OF WATER, THE METHOD OF WATER DIVERSION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED WITH "REMOVAL OF EXISTING STRUCTURES NO.5", CLEAN FILL (GRANULAR) MATERIAL WILL ONLY BE ALLOWED.
- 5. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M259 (DESIGN FILL HEIGHT= 3'-0")
- 6. A CANTILEVERED SHEET PILING DESIGN DOES NOT APPEAR FEASIBLE AND ADDITIONAL MEMBERS OR OTHER RETENTION SYSTEM MAY BE NECESSARY. THE CONTRACTOR SHALL SUBMIT A TEMPORARY SOIL RETENTION SYSTEM DESIGN INCLUDING PLAN DETAILS AND CALCULATIONS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.
- 7. THE CONTRACTOR SHALL PREPARE IN-STREAM WORK PLANS (ALL COFFERDAMS, WORK PADS, AND EROSION AND SEDIMENT CONTROL, ETC.) AND SUBMIT TO THE ENGINEER AND THE US. ARMY CORP OF ENGINEERS FOR REVIEW AND APPROVAL THE CONTRACTOR SHOULD EXPECT TO HAVE TO ATTEND MEETINGS AT THE USACOE OFFICE TO DISCUSS THEIR WORK PLAN IN ORDER TO SECURE THEIR PERMIT. THE COST OF ALL IN-STREAM WORK ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CULVERT 'E' GENERAL PLAN U.S. ROUTE 30 (LINCOLN HIGHWAY)

F.A.P. 353 (U.S. 30)

SECTION (I2 & I3) WRS-3

STATION 271+00.00

WILL COUNTY STRUCTURE NUMBER 099-C015