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CONSULTING ENGINEERS

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INDEX OF STRUCTURAL SHEETS

SHT. NO. **DESCRIPTION**

11 GENERAL PLAN, ELEVATION AND INDEX

12 HEADWALL DETAILS

13 WINGWALL DETALS

GENERAL NOTES

- 1. EXISTING STRUCTURE: NOT SALVAGEABLE. THE NEW STRUCTURE NUMBER IS 099-0521,
- 2. THE PROPOSED PRECAST CONCRETE BOX CULVERT SHALL BE DESIGNED BY THE CONTRACTOR ACCORDING TO THE REQUIREMENTS OF AASHTO M273. COST IS INCLUDED IN PRECAST CONCRETE BOX CULVERT 9'x6' ITEM.
- 3. FLOW OF THE CREEK UNDER WEST RIVER ROAD IS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION BY PLACE A TEMPORARY STREAM DIVERSION AT THE UPSTREAM END OF THE BOX CULVERT/WINGWALLS AND TEMPORARILY PUMPING OR OTHERWISE CONVEYING THE STREAM FLOW THROUGH THE WORK ZONE. THE DESIGN AND CONSTRUCTION OF THE TEMPORARY DIVERSION SHALL BE THE CONTRACTOR'S RESPONSIBILITY, AND THE COST SHALL BE INCLUDED IN CONCRETE BOX CULVERTS ITEM. THE TEMPORARY STREAM DIVERSION PLAN TO BE USED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.
- 4. ALL CONSTRUCTION JOINTS SHALL BE BONDED.
- 5. THE INFORMATION SHOWN IN THESE PLANS CONCERNING THE TYPE AND LOCATION OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE EXISTENCE, TYPE, SIZE AND LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES AS MAY BE NECESSARY TO AVOID CONFLICT WITH CONSTRUCTION OPERATIONS AND/OR DAMAGE TO THE UTILITY.
- 6. THE CONTRACTOR IS TO PROTECT AND MAINTAIN ALL EXISTING UTILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO PRECAST CONCRETE BOX
- 7. THE CONTRACTOR IS TO PROTECT AND MAINTAIN ALL TREES WITHIN AND ADJACENT TO THE WORK ZONE FOR THIS PROJECT. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO PRECAST CONCRETE BOX CULVERT 9'x6'.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.
- 9. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
- 10. THE CONTRACTOR SHALL SUBMIT A PLAN AND SCHEDULE OF CONSTRUCTION ACTIVITIES TO THE ENGINEER FOR APPROVAL BEFORE STARTING ANY WORK FOR THIS PROJECT.
- 11. AS-BUILT/ACTUAL DETAILS OF EXISTING BOX CULVERT AND WINGWALLS ARE NOT AVAILABLE. THE CONTRACTOR SHALL FIELD VERIFY ACTUAL EXISTING STRUCTURE TO BE REMOVED.
- 12. THE COST OF 6" OF CA 7 UNDER CULVERT SHALL BE INCLUDED IN THE PRECAST CONCRETE BOX CULVERT 9'x6' ITEM.
- 13. THE COST OF REMOVING AND REPLACING THE EXISTING 18" PIPE CULVERT SHALL BE INCLUDED IN THE PRECAST CONCRETE BOX CULVERT 9'x6' ITEM.

WATERWAY INFORMATION

DRAINAGE AREA = 2.43			LOW GRADE ELEV. = 552.22 EXISTING AND 552.28 PROPOSED AT STATION 100+						T STATION 100+15
	FREQ. Q		WATERWAY OPENING (FT.)		NATURAL	HEAD (FT.)		HEADWATER ELEVATION (FT.)	
FLOOD	(YR.)	(CFS)	EXISTING	PROPOSED	H.W.E. (FT.)	EXISTING	PROPOSED	EXISTING	PROPOSED.
	10	215	40.1	47.3	547.43	0.35	0.11	547.78	547.54
DESIGN	50	315	59.4	69.1	548.64	0,38	0.24	549.02	548.88
BASE	100	354	67.3	77.9	549.13	0.42	0.28	549.55	549.41
OVERTOPPING	-	-	-		•	-	-	-	-
MAX. CALC.	-	-	-	- ,	-		-	-	-

ALL - TIME H.W.E. & DATE: UNKNOWN

8'x6'

9'x6'

2 (EXISTING, PROPOSED)

10 YEAR VELOCITY THROUGH EXISTING BRIDGE = 6.06ft/s 10 YEAR VELOCITY THOUGH PROPOSED STRUCTURE = 4.82 ft/s

GENERAL PLAN, ELEVATION AND INDEX FAU 0327 / WEST RIVER ROAD OVER CREEK (2.6 MI. SOUTH OF IL ROUTE 53

SECTION 112 T-1 WILL COUNTY STA. 100+00.00 STRUCTURE NO. 099-0521

-P.V.I. STA. 100+33 EL. = 551.96

PROFILE GRADE

F.A.U. TOTAL SHEE SHEETS NO. SECTION COUNTY SHEET NO. S1 0327 112 T-1 WILL 17 11 OF S3 SHEETS D-91-496-09 CONTRACT NO. 60G54 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT