

**GENERAL NOTES:**

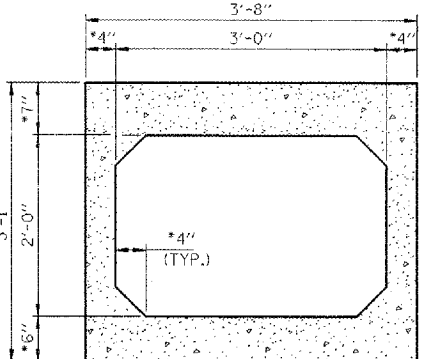
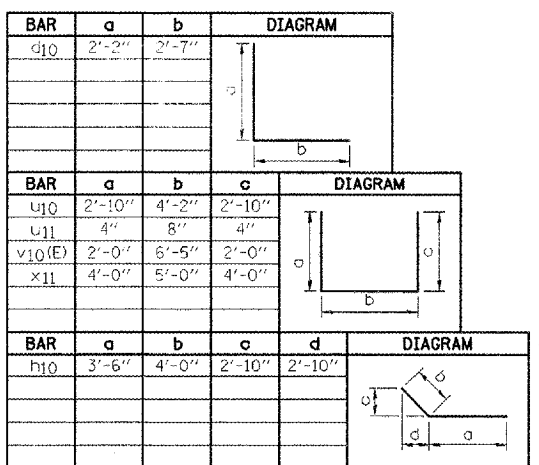
- CAST-IN-PLACE CONCRETE EXPOSED EDGES SHALL BE BEVELED 3/4" IN.
- CLASS SI CONCRETE SHALL BE USED THROUGHOUT (CONCRETE STRENGTH,  $f'c=3500$  PSI @ 28 DAYS).
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 708 Gr 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.
- REINFORCEMENT BARS DENOTED (E) SHALL BE EPOXY COATED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT THE 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 THE COST OF "PRECAST CONCRETE BOX CULVERTS, 3'x2'".
- STRUCTURAL SEAL IS FOR CAST-IN-PLACE PORTION OF STRUCTURE ONLY.
- THE PRECAST CONCRETE CULVERT SECTIONS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AASHTO M259 (ASTM C789).
- FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
- END OF PRECAST SECTION SHALL NOT HAVE A BELL OR SPIGOT.
- THE APRON END SECTIONS SHOWN SHALL BE CAST-IN-PLACE.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM FIELD MEASUREMENTS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATION SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- CONTRACTOR TO CONFIRM ALL PRECAST CULVERT DIMENSIONS WITH THE SUPPLIER BEFORE STARTING CONSTRUCTION.
- CONCRETE COLLAR QUANTITIES INCLUDED WITH CONCRETE BOX CULVERTS AND REINFORCEMENT BARS.
- COST TO REMOVE THE HATCHED PORTION OF THE EXISTING HEADWALLS AND WINGWALLS TO FACILITATE CONSTRUCTION OF COLLAR AND/OR PRECAST CONCRETE BOX CULVERTS IS INCLUDED WITH "PRECAST CONCRETE BOX CULVERTS 3'x2'".
- THE 36"  $\phi$  CMPS AT EACH END OF EXISTING CULVERT ARE TO BE REMOVED.
- THE BILL OF MATERIAL SHOWN IS FOR INFORMATION ONLY. END SECTIONS WILL BE PAID FOR AS "BOX CULVERT END SECTIONS" PER EACH. THE "CONCRETE COLLAR" WILL BE PAID FOR SEPARATELY, SEE SCHEDULE OF QUANTITY SHEETS.

**BILL OF MATERIAL**

(NOTE: FOR 2 END SECTIONS & CONCRETE COLLAR)

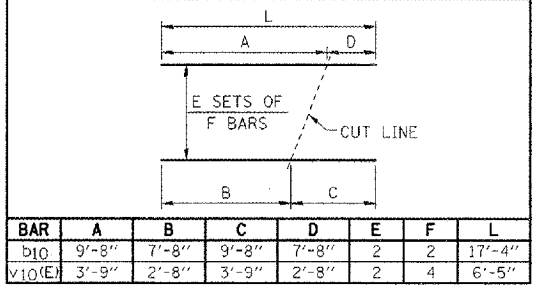
BAR	NO.	SIZE	LENGTH	SHAPE
a10	22	#5	2'-3"	—
b10	4	#5	17'-4"	—
b11	6	#5	10'-7"	—
b12	6	#5	6'-6"	—
d10	22	#5	4'-9"	—
h10	4	#5	7'-6"	—
h11	12	#5	4'-0"	—
u10	8	#5	9'-10"	U
u11	8	#5	1'-4"	U
v10(E)	8	#5	10'-5"	L J
x10	44	#4	1'-0"	—
x11	12	#4	13'-0"	—
ITEM	UNIT	QUANTITY		
CONCRETE BOX CULVERTS	CU YD	4.8		
REINFORCEMENT BARS	POUND	650		
REINFORCEMENT BARS, EPOXY COATED	POUND	90		
CONCRETE COLLAR	CU YD	1.2		

**BAR BENDING DIAGRAMS**

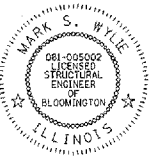


**SECTION THRU BARREL**  
\* CONFIRM SLAB & WALL THICKNESS WITH PRECASTER

**BAR CUTTING DIAGRAMS**



\* CUT LENGTH OF v10(E) BARS DOES NOT INCLUDE THE 2'-0" BENT LEGS.



*Mark S. Wylie* Date 8/15/08  
 MARK S. WYLIE  
 ILLINOIS STRUCTURAL ENGINEER  
 NO. 081-005002  
 Exp. Date 11/30/08

**NOTE:**  
WORK THIS SHEET WITH SHEET B2.

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CULVERT #2 EXTENSION**  
 (STA. 124+66.56)  
 FAP ROUTE 816  
 ATWOOD-ARTHUR RD  
 SECTION 6RS-1 & (6BR)R  
 DOUGLAS COUNTY

DATE: 11/24/03  
 DRAWN BY: DJM  
 CHECKED BY: MSW