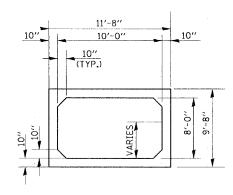


END SECTION ELEVATION

GENERAL NOTES

- 1. All dimensions are in feet except as noted. All elevations are in feet.
- 2. Exposed edges shall have a $\frac{3}{4}$ " chamfer unless otherwise noted.
- 3. Provide a light broom finish to the floor of the Precast Concrete Box Culvert and Precast Box Culvert End Sections. Cost included with "Precast Concrete Box Culverts 10 ft. x 8 ft." and "Box Culvert End Section, Culvert No. 2".
- 4. The Cast-In-Place toewall will not be paid for seperately, but shall be included in the cost for "Box Culvert End Section, Culvert No. 2". Approximately 2.0 cu. yd. of concrete will be required.
- 5. This box culvert has an approximate fill height of 2 feet 0 inches. The Precast Concrete Box Culvert shall be designed in accordance with AASHTO M259 except that the aggregate shall conform to the requirements of Article 1003.02 and 1004.02 of the Standard Specifications with the exception of gradation.
- 6. The contractor shall submit shop drawings and calculations for the Precast Concrete Box Culvert and Box Culvert End Sections. Shop drawings and calculations shall be sealed by a Structural Engineer registered in the State of Illinois.
- 7. Structure Excavation (Special), Porous Granular Embankment (Special), and Trench Backfill shall be inluded in the contract unit price of the "Precast Concrete Box Culvert 10 ft. x 8 ft." and "Box Culvert End Section, Culvert No. 2".
- 8. Should unstable soils be encountered upon Structure Excavation, the ENGINEER shall determine the necessary depth of excavation required to reach stable soils



SECTION THRU BARREL

SECTION THROUGH END SECTION

DESIGN STRESSES

LOADING HS20-44

PRECAST UNITS

 $f_c' = 5 \text{ ksi}$ $f_y = 65$ ksi (welded wire fabric)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Precast Concrete Box Culverts 10 ft. x 8 ft	F†.	54
Box Culvert End Section, Culvert No. 2	Each	2

IDOT SECTION 9380 02-00016-01-PV ST. CLAIR FEDERAL AID PROJECT IDOT JOB NO. C-98-318-08 IDOT CONTRACT NO. 97345



MOERCHEN, INC

THOUVENOT.

WADE &

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LICENSE NO.

62-035370

81-005202

048-000029

NC 001528

PROFESSIONAL REGISTRATIONS PROFESSIONAL ENCUNEERING CORP. PROFESSIONAL STRUCTURAL ENGR. CORP. ILLINOIS PROF. LAND SURVEYING CORP. MISSOURI PROFESSIONAL ENGR. CORP.

MISSOURI LAND SURVEYING CORP.

Signature: Signature Date:

STATEMENT OF RESPONSIBILITY

hereby confirm that the document herein uthenticated by my seal is restricted to th

r ROAD 10N - PHASE I ASCOUTAH DETAIL COUNTY ROANSTRUCTION NY OF MASCC
LAIR COUNTY, 70+06. CULVERT BOX CU STA. RECONS CITY ST. CL.

REV.	DATE	DESCRIPTION	
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			-440
DRAV BY:	VN	JWS	SHET
DESIG BY:	NED	J W S	5 1
CHEC BY:		SJK	OF 113 SHEETS
APPR	OVED		PROJECT DESCRIPTION

PROJECT 120-010154 REALIGNMENT XI ISSUED FOR REVIEW | | ISSUED FOR BIDDING

☐ ISSUED FOR CONSTR. ☐ RECORD DRAWING