CONTRACT NO.						
F.A.P. RTE.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	
781	1YRS, 2ZRS-1	CRAWFORD		378	182	
STA.		TO STA.				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJEC		DJECT	

GENERAL NOTES

- 1. Plan dimensions and details relative to existing structure have been taken from existing plans 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 variations 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.
- 2. Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 18.15 kN, and 20 mm ϕ hooked bolts shall extend a minimum of 250 mm into new concrete.
- 3. Reinforcement bars shall conform to the requirements of AASHTO M-31M or M-322M, Grade 400.
- 4. Reinforcement bars designated (E) shall be epoxy coated.
- 5. All dimensions are in millimeters (mm) except as noted.
- 6. Precast reinforced concrete box sections shall conform to AASHTO M-259M and M-273M.
- 7. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

DESIGN SPECIFICATIONS

2002 AASHTO Specifications

DESIGN STRESSES (New Construction)

LOADING MS18

Allow 1.2 kN/m² for future wearing surface

INDEX OF SHEETS

S1	Gen. Notes & Bill of Material
S2	General Plan & Elevation, Box Culvert No. 1
S3	General Plan & Elevation, Box Culvert No. 4
S4	Concrete Repair Details, Box Culvert No. 4
<i>S5</i>	General Plan & Elevation, Box Culvert No. 8
S6	Concrete Repair Details, Box Culvert No. 8
<i>S</i> 7	General Plan & Elevation, Box Culvert No. 10
S8	Concrete Repair Details, Box Culvert No. 10
S9	General Plan & Elevation, Box Culvert No. 11
S10	Concrete Repair Details, Box Culvert No. 11
· S11	General Plan & Elevation, Box Culvert No. 15
S12	General Plan & Elevation, Box Culvert No. 16
S13	General Plan & Elevation, Box Culvert No. 17
S14	Concrete Repair Details, Box Culvert No. 17
S15	Precast Section Details
S16	Precast End Section Details
S17	Cast-In-Place Collar Details
S18	Miscellaneous Details
S19	Plug & Fill Details, E.C. #101 And E.C. #105

TOTAL BILL OF MATERIAL

(Culverts E.C. 101, 105) (Box Culvert Nos. 1, 4, 8, 10, 11, 15, 16 & 17)

	Item	Unit	Total
M5030350	Concrete Structures	cu. m.	4.9
M5080205	Reinforcement Bars, Epoxy Coated	kg	880
	Precast Concrete Box Culvert (3000x1650)	m	10.9
M5401010	Precast Concrete Box Culvert (900x600)	m	5.7
	Precast Concrete Box Culvert (900x450)	m	15.2
M5401005	Precast Concrete Box Culvert (600x600)	т	15.6
M5401002	Precast Concrete Box Culvert (600x450)	m	15.1
5401001	Box Culvert End Section, Culvert No. 1	Each	- 2
5401004	Box Culvert End Section, Culvert No. 4	Each	2
5401008	Box Culvert End Section, Culvert No. 8	Each	2
5401010	Box Culvert End Section, Culvert No. 10	Each	2
5401011	Box Culvert End Section, Culvert No. 11	Each	2
5401015	Box Culvert End Section, Culvert No. 15	Each	2
5401016	Box Culvert End Section, Culvert No. 16	Each	2
5401017	Box Culvert End Section, Culvert No. 17	Each	2
M5403220	Expansion Bolts (M20x250)	Each	206
M2810707	Stone Riprap, Class A4	sq. m.	See Plans
M5050405	Furnishing & Erecting Structural Steel	kg	260
MX033694	Structural Repair of Concrete	sq. m.	3.2
1 .	(Depth Equal to or Less than 125mm)		
M5900200	Epoxy Crack Injection	m	5
MX032196	Polymer Modified Portland Cement Mortar	sq. m.	25.9
M5930100	Controlled Low-Strength Material	cu. m.	7.0

^{*} Non-standard size.

SHEET S1 OF 19

REVISIONS							23
NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION				DRIATION	9803
			BOX CUL	/ERT E	XTENSI	SNC	ė.
		GEN.	NOTES	& BILL	OF MA	TERIAL	N.
		SCALE	NONE		DRAWN BY	MLB	l
		DATE	DECEMBER 10,	2006	CHECKED BY	MTH	
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