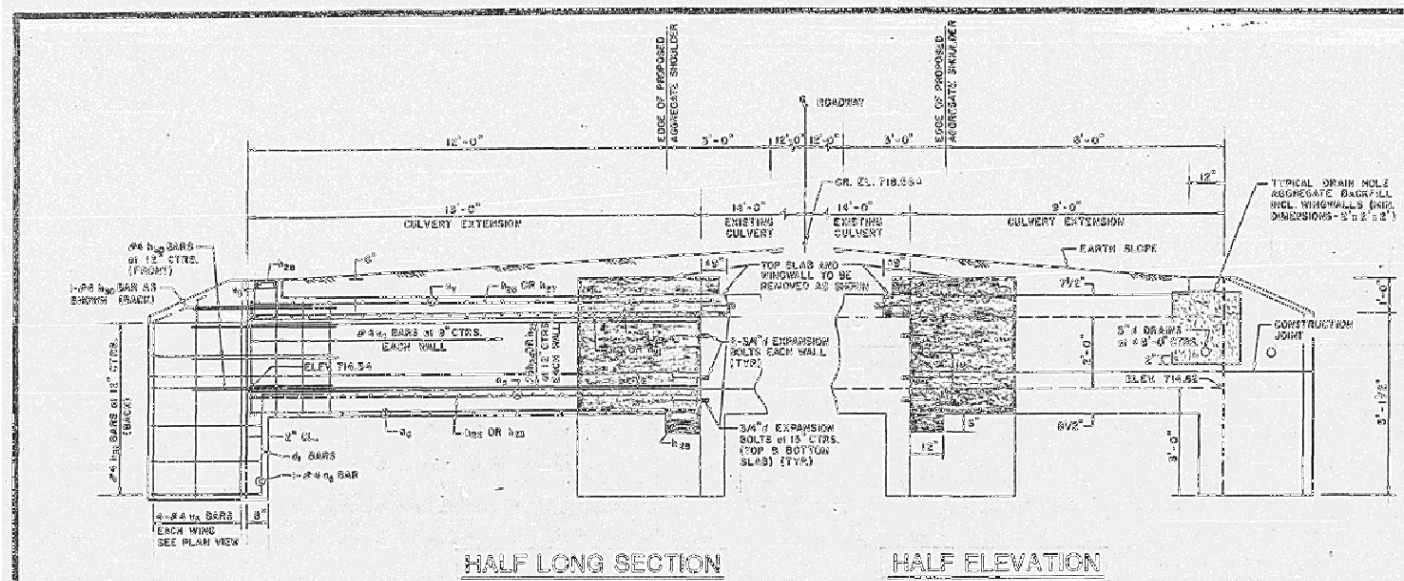


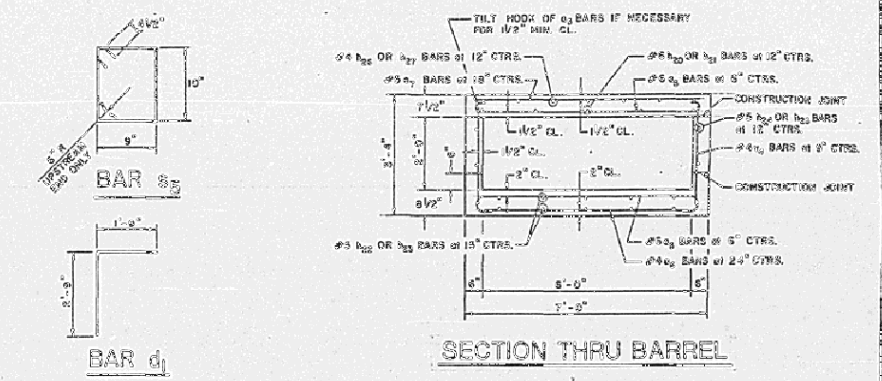
# AS-BUILT PLANS – FOR INFORMATION ONLY

## DETAIL OF EXISTING REINFORCED BOX CULVERT AND EXTENSION

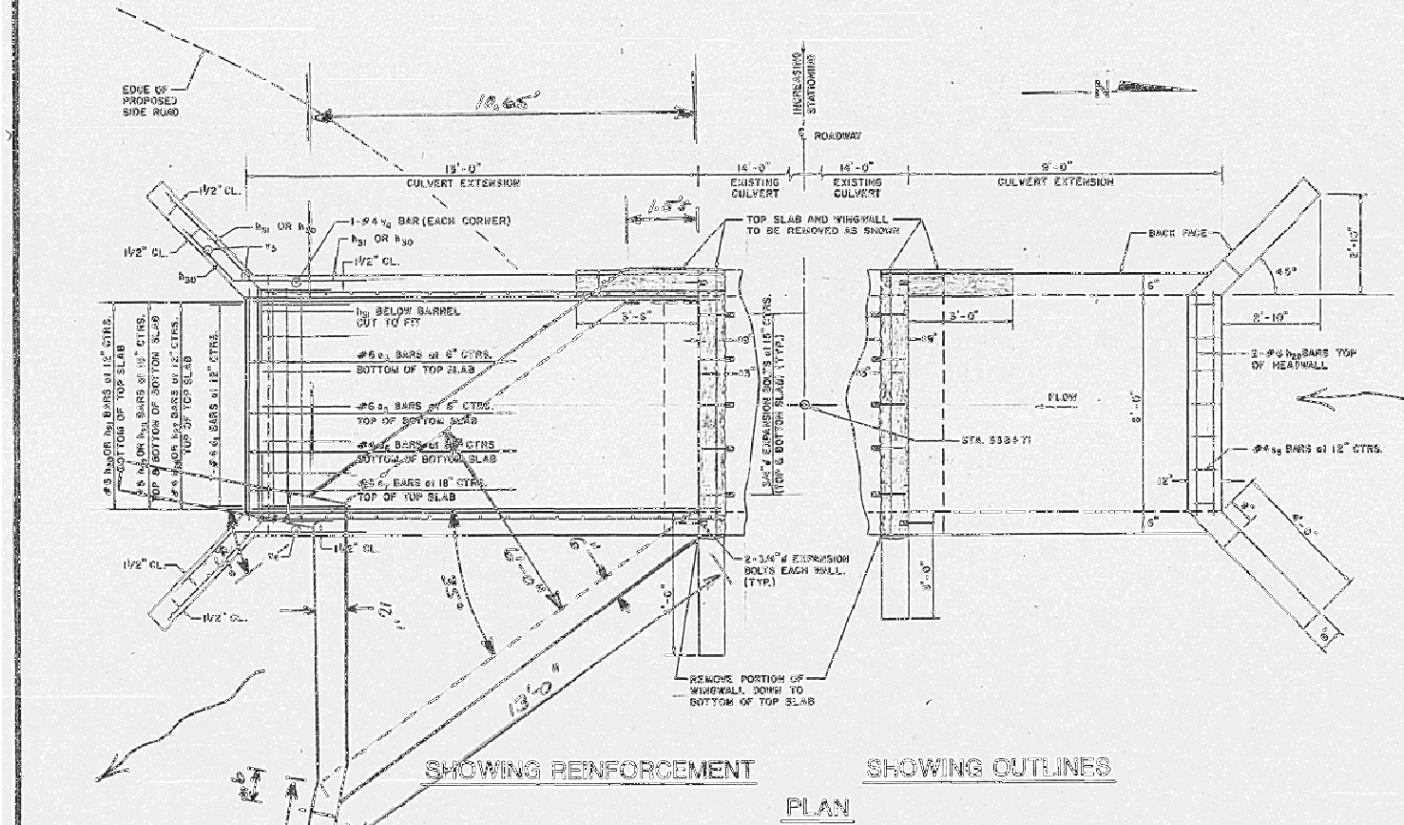
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514 & 532	B 4 (W-1,RS-2)	CHAMPAIGN	48	32



**HALF LONG SECTION      HALF ELEVATION**



**SECTION THRU BARREL      SECTION THRU HEADWALL**



**SHOWING REINFORCEMENT      SHOWING OUTLINES**

**PLAN**

**DESIGN STRESSES**

$f_c = 60,000$  P.S.I.  
 $f_s = 3,500$  P.S.I.

**LOADING HS 20-44 & ALT.**

**NOTES**

CLASS X CONCRETE SHALL BE USED THROUGHOUT.  
 AT LEAST SIX FEET OF BARREL SHALL BE POURED MONOLITHICALLY WITH WINDWALLS.  
 EXPOSED FIBERS SHALL BE BEVELED 30°.  
 FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.  
 REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-51 OR M-33 GRADE 60.  
 ALL REINFORCEMENT BARS EXPOSED DURING REMOVAL OF EXISTING HEADWALL SHALL BE STRAIGHTENED AND THOROUGHLY CLEANED FOR RE-USE IN NEW SLAB.

*SKAWAD EXTENSION REQUIRED TO MAINT EXISTING DRAINAGE DITCH. RA-BAR AS SHOWN IN BALL OF MATERIAL FIELD MODIFIED FOR SKAWAD EXTENSION.*

**BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH
d1	92	#6	6'-0"
d2	14	#4	6'-3"
d3	17	#5	6'-3"
d4	14	#6	4'-6"
h20	7	#6	15'-5"
h21	7	#6	9'-3"
h22	20	#5	12'-5"
h23	20	#5	9'-3"
h24	4	#5	12'-0"
h25	4	#5	8'-3"
h26	7	#4	13'-5"
h27	7	#4	8'-3"
h28	8	#6	6'-3"
h30	20	#4	6'-0"
h31	24	#4	7'-0"
d5	14	#4	5'-11"
d6	68	#6	3'-0"
d7	16	#4	3'-6"
CONCRETE REMOVAL			CU. YD. 0.8
EXPANSION BOLTS 3/4" INCH EACH			28
CLASS X CONCRETE BOX CHAMBERS			CU. YD. 13.0
REINFORCEMENT BARS			LB. 27.8

**BOX CULVERT EXTENSION – 6' x 2'**

**STA. 338 + 71**

**ILLINOIS RTE. 10**

JOB NO. 0401

FILE NAME =	USER NAME = blackrt	DESIGNED -	REVISED -
ct:\pw\work\PWIDOT\BLACKRT\d0132092\0570701-sht-Details.dgn		DRAWN -	REVISED -
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 3/30/2010		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF EXISTING CONCRETE SLAB**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	CHAMPAIGN	29	18
			CONTRACT NO. 70701	
ILLINOIS FED. AID PROJECT				