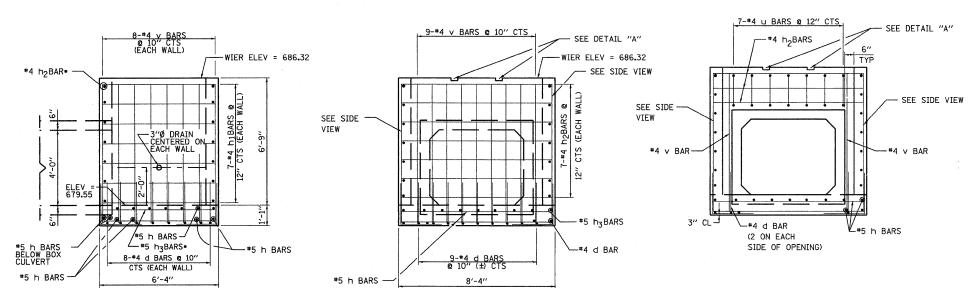
DROP BOX NO. 4

SN 071-1204 - LT STA. 747 + 50 (IL RTE 2) CULVERT @ 0 SKEW TO RDWY



SECTION A-A

SECTION B-B

BILL OF MATERIALS

(FOR INFORMATION ONLY)

		11 011 1111 011111/1111011	OHETT		
BAR	SIZE	NO.	LENGTH	SHAPE	
d	#4	29	4'-4''	L.	
h	#5	13	8′-1′′		
h ₁	#4	14	6′-1′′		
h ₂	#4	10	8′-1′′		
h ₃	#5	15	6′-1′′		
u	#4	7	4′-5′′	Ц	
٧	#4	27	7′-5′′		
DESCRIPTION		UNIT	QTY		
CONCRETE BOX CULVERTS			CU YD	6.3	
REINFORCEMENT BARS			LB	550	
3 1/2" I.D. GALV STEEL PIPE			FOOT	13'-4''	
3 1/2" GALV PIPE CAPS			EACH	4	
1/4" GALV. STEEL PLATE (9" NOMINAL)			EACH	4	
1/2" X 4" × 14" GALV. STEEL PLATE			EACH	4	
EXPANSION BOLTS 1/2"Ø			EACH	8	



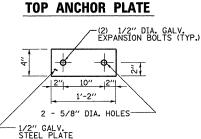
d BAR

u BAR

DETAIL "A"

1/2" × 4" × 14" TOP ANCHOR PLATE NOTCH IN CONCRETE-WALL (9" PLATE NOT SHOWN FOR CLARITY) 3 1/2" GALV.

STEEL PIPE (TYP)



GENERAL NOTES:

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER "EACH" FOR DROP BOX NO. 4. THIS WORK SHALL INCLUDE THE GALVANIZED PIPE, ANCHOR PLATES, & CAPS, CONCRETE BOX CULVERTS, REINFORCEMENT BARS, BOLTS, NUTS, WASHERS, INSTALLATION ON THE PROPOSED CULVERT, PIPE GRATING, EARTH EXCAVATION AND DIVERTING WATER WHERE REQUIRED, AND ANY NECESSARY GRADING TO FIT THE DROP BOX, AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

EXPOSED EDGES SHALL BE BEVELED 3/4".

SLOPE FLOW LINE FOR DROP BOX NO. 4 IS THE SAME RATE

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120. CONTRACTOR SHALL FIELD

AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60 (IL MODIFIED).

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

SEE CROSS SECTION SHEET FOR MORE INFORMATION INCLUDING INVERT ELEVATIONS.

SCALE:

AS THE FLOW LINE OF THE PIPE.

STEEL PLATES SHALL CONFORM TO AASHTO M-270 GRADE 36

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERTING THE WATER FLOW FROM THE CONSTRUCTION AREA USING A METHOD MEETING THE APPROVAL OF THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 503 OF THE STANDARD SPECIFICATION. COST INCLUDED WITH "DROP BOX NO. 4."

DESIGN STRESSES

60,000 psi

f'c = 3.500 psi



My registration expires November 30, 2010.

TOP VIEW

7-#5 h BARS @

10" CTS

(TOP ONLY)

•FIELD CUT h₂ ,h₃ AND v BARS AS NEEDED AT BOX CULVERT OPENING

SIDE VIEW

1/2" x 4" x 14"

EXPANSION BOLTS

#5 h BARS-

GALVANIZED STEEL

#5 h BARS

BELOW BOX

#5 haBARS

CULVERT

PIPE CAP (TYP.)

(BOTTOM)

STEEL PLATE WITH 1/2" DIA.

5x4 BOX CULVERT -

TILE NAME =	USER NAME =	DESIGNED	-	GSS	REVISED	-
		DRAWN	-	GSS	REVISED	-
	PLOT SCALE =	CHECKED	-	СТН	REVISED	-
	PLOT DATE = 3/2/2010	DATE	-	3/2/2010	REVISED	-

#5 h₃BARS

A◆

-#5 h BARS

9" SQUARE OR ROUND

TO FIT 3 1/2" PIPE (TYP.)

1/4" GALVANIZED PLATE WITH HOLE

(BOTTOM)

(воттом)

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

			SECTION	COUNTY	TOTAL	SHEET NO.
DROP BOX N	742	37 R-4	OGLE	867	161	
				CONTRAC	T NO.	64E17
SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. RO	DAD DIST. NO. ILLINOIS FED.	AID PROJECT		