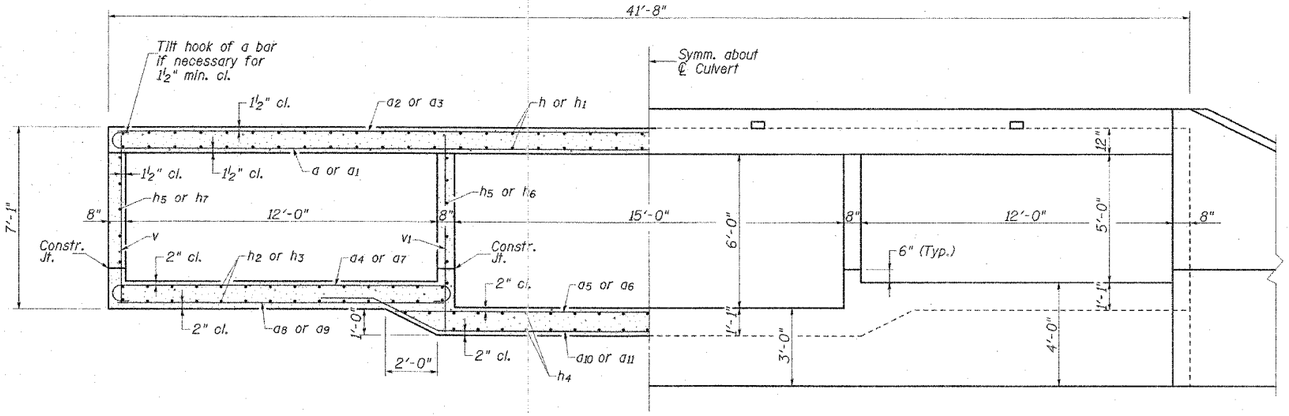
93448

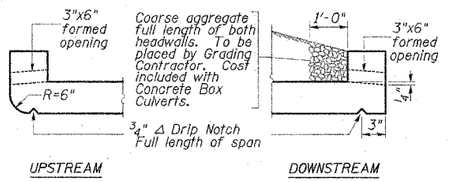
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	17
STA.	TO STA.			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

SHEET 3 OF 6

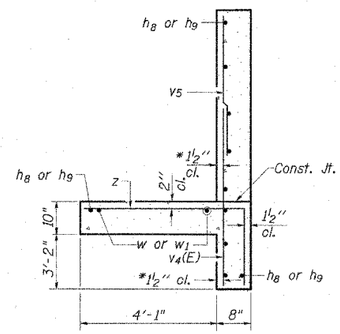


HALF SECTION THRU BARREL

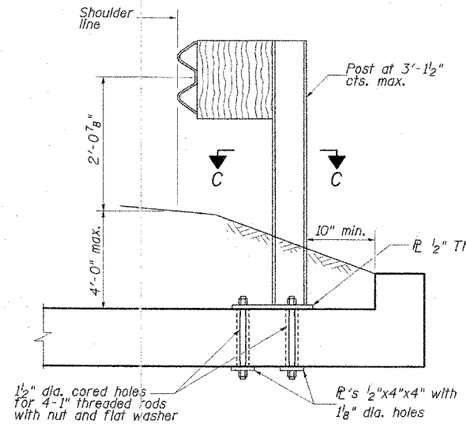
HALF END ELEVATION



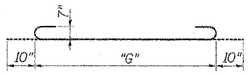
DRAIN DETAIL



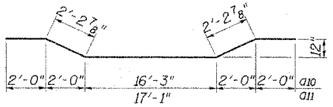
SECTION A-A



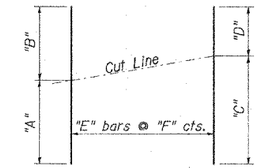
CROSS SECTION



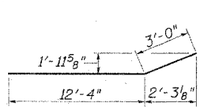
BARS a ,a1 ,a4 & a7



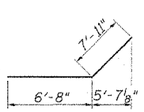
BARS a10 & a11



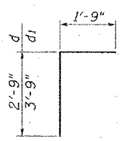
CUTTING DIAGRAM FOR a1 ,a3 ,a6 ,a7 ,a9 ,a11 & h1 BARS



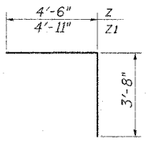
BAR h12



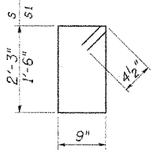
BAR W3



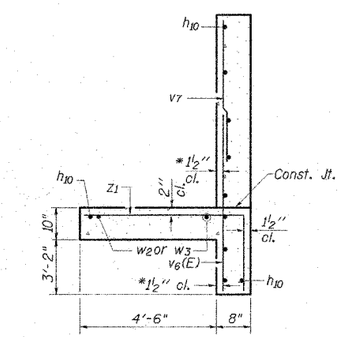
BAR d & d1



BAR Z & Z1

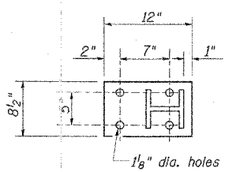


BARS S & S1



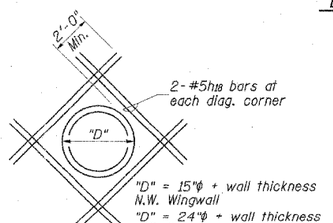
SECTION B-B

* v bars shall not be placed more than 1½" cl. from back face of wingwall.



SECTION C-C

GUARDRAIL MOUNTED ON CULVERT TOP SLAB



ADDITIONAL REINF. FOR RCP PENETRATION IN WINGWALL

See Roadway Plans for Location and Elevation

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	54	#7	43'-0"	
a1	13	#7	31'-11"	
a2	45	#7	41'-4"	
a3	11	#7	29'-8"	
a4	124	#7	14'-8"	
a5	54	#7	20'-0"	
a6	7	#7	21'-6"	
a7	5	#7	16'-11"	
a8	103	#7	13'-0"	
a9	4	#7	15'-6"	
a10	45	#7	24'-9"	
a11	6	#7	25'-7"	
d	30	#4	4'-6"	
d1	48	#4	5'-6"	
h	168	#6	23'-4"	
h1	28	#6	30'-0"	
h2	56	#5	23'-2"	
h3	56	#5	35'-6"	
h4	76	#5	31'-2"	
h5	22	#5	23'-2"	
h6	12	#5	30'-0"	
h7	10	#5	35'-6"	
h8	11	#4	13'-11"	
h9	11	#4	7'-11"	
h10	24	#4	8'-11"	
h11	11	#7	41'-0"	
h12	3	#6	15'-4"	
h13	8	#7	37'-10"	
h14	1	#6	37'-10"	
h15	1	#6	41'-0"	
h16	8	#6	10'-0"	
h17	28	#6	6'-4"	
h18	16	#5	6'-5"	
s	41	#4	6'-9"	
s1	50	#4	5'-3"	
v	138	#5	6'-9"	
v1	125	#5	7'-9"	
v2	4	#4	10'-5"	
v3	4	#4	11'-2"	
v4 (E)	22	#4	7'-6"	
v5	22	#4	4'-6"	
v6 (E)	20	#4	6'-8"	
v7	20	#4	6'-2"	
w	6	#5	18'-10"	
w1	6	#5	13'-0"	
w2	6	#5	13'-4"	
w3	6	#5	14'-7"	
z	37	#5	8'-2"	
z1	30	#6	8'-7"	
Concrete Box Culverts		Cu. Yd.	235.7	
Reinforcement Bars		Pound	42,640	
Reinforcement Bars, Epoxy Coated		Pound	200	

TABLE OF DIMENSIONS

Bar	"A"	"B"	"C"	"D"	"E"	"F"	"G"
a	—	—	—	—	—	—	41'-4"
a1	16'-5"	15'-6"	27'-11"	4'-0"	13	10"	30-3"
a3	15'-5"	14'-3"	26'-11"	2'-9"	11	12"	—
a4	—	—	—	—	—	—	13'-0"
a6	11'-3"	10'-3"	17'-0"	4'-6"	7	10"	—
a7	9'-0"	7'-11"	12'-9"	4'-2"	5	10"	15'-3"
a9	8'-4"	7'-2"	11'-9"	3'-9"	4	12"	—
a11	13'-4"	12'-3"	19'-1"	6'-6"	6	12"	—
h1	3'-2"	26'-10"	26'-10"	3'-2"	28	12"	—

NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.

REVISIONS NAME	DATE

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

ILLINOIS DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS 2

F.A. ROUTE 556 (EAST MAIN STREET)
EAST MAIN STREET OVER
BLACK BRANCH
SECTION 04-00119-03-BR STA. 1015+58.04
STR. NO. 084-8010 - SANGAMON COUNTY

SCALE: NONE — DRAWN BY: GLD
DATE: 10/23/07 — CHECKED BY: WK

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10/1/2007