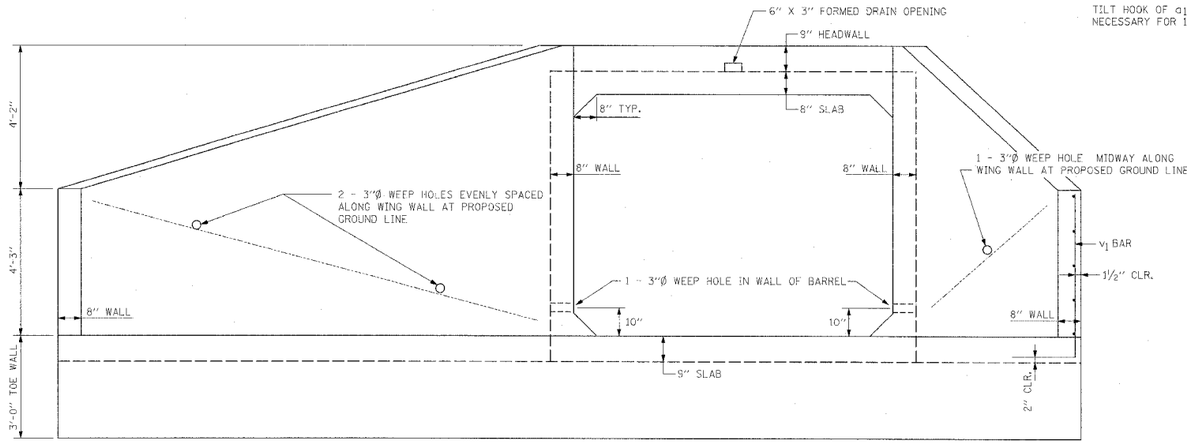
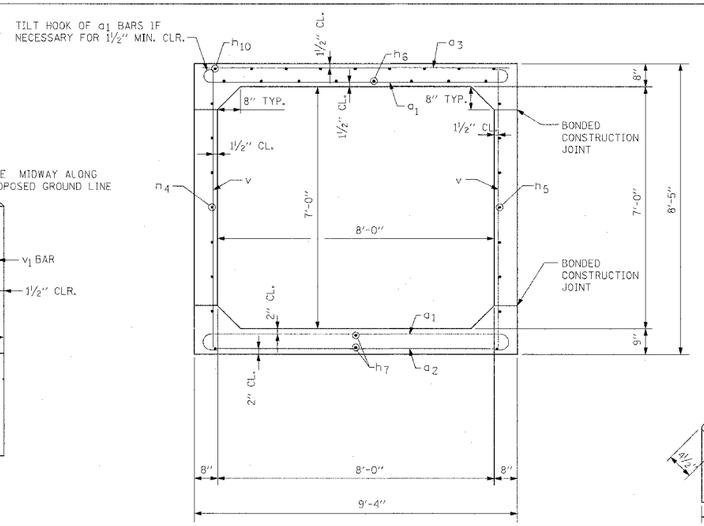
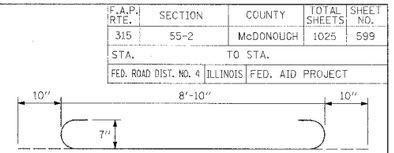
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	55-2	McDONOUGH	1025	599
STA.		TO STA.		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		



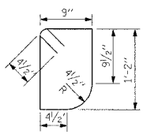
END ELEVATION



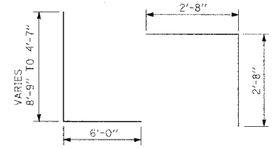
SECTION A–A



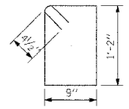
BAR a_1



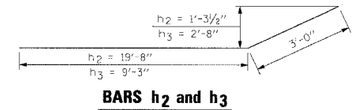
BAR s_1



BAR v_1 **BAR d**

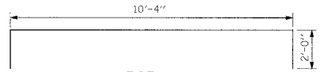


BAR s

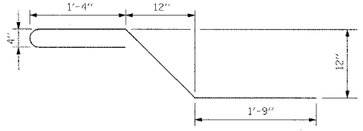


BARS h_2 and h_3

SECTION B–B THRU COLLAR

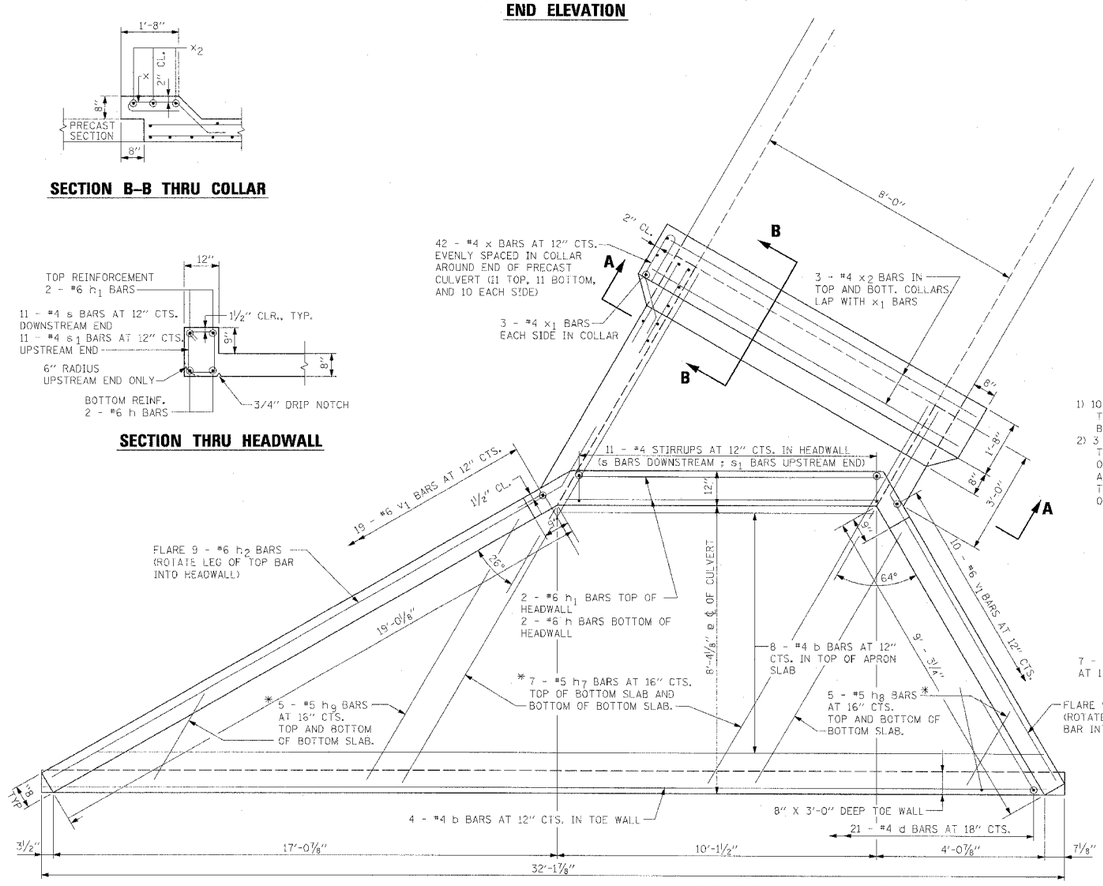


BAR x_2



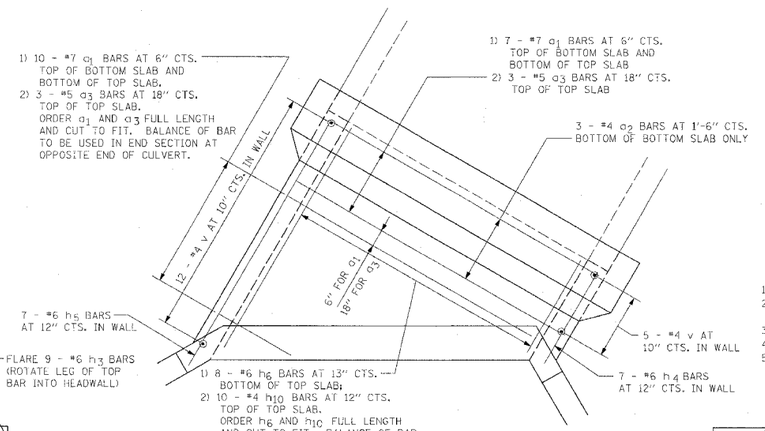
BAR x

SECTION THRU HEADWALL



PLAN

* ORDER BARS h_7, h_8, h_9 FULL LENGTH, CUT TO FIT AND USE REMAINDER AT OPPOSITE END OF CULVERT



CULVERT SLAB PLAN

BILL OF MATERIAL
(For Two End Sections)

Bar	No.	Size	Length	Shape
* a_1	48	#7	10'-6"	
a_2	6	#4	9'-0"	
* a_3	9	#5	9'-0"	
* b	24	#4	31'-6"	
d	42	#4	5'-4"	
h	4	#6	11'-3"	
h_1	4	#6	9'-9"	
h_2	18	#6	22'-8"	
h_3	18	#6	12'-3"	
h_4	14	#6	3'-0"	
h_5	14	#6	9'-6"	
* h_6	8	#6	12'-6"	
* h_7	14	#5	33'-3"	
* h_8	10	#5	11'-0"	
* h_9	10	#5	12'-9"	
* h_{10}	10	#4	12'-6"	
s	11	#4	4'-7"	
s_1	11	#4	4'-5"	
v	34	#4	8'-1"	
* v_1	58	#6	14'-9" TO 10'-7"	
x	84	#4	6'-2"	
x_1	12	#4	9'-4"	
x_2	12	#4	14'-4"	
* MAY FIELD BEND AND/OR FIELD CUT				
Box Culvert End Section, Culvert No. 3		Each	2	

NOTES

1. THE BARREL SHALL BE POURED MONOLITHICALLY WITH THE WINGWALLS.
2. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 OR M-322, GRADE 60.
3. CHAMFER EXPOSED EDGES ¾".
4. ALL CONSTRUCTION JOINTS SHALL BE BONDED.
5. THE PRICE FOR BOX CULVERT END SECTION, CULVERT NO. 3, SHALL BE PAYMENT IN FULL FOR ALL LABOR AND MATERIALS NECESSARY TO CONSTUCT THE END SECTION AS SHOWN ON THE PLANS INCLUDING CONCRETE COLLARS, REINFORCEMENT BARS, CONCRETE, CAST-IN-PLACE SECTIONS OF THE BARREL AND ALL OTHER COLLATERAL WORK.

DESIGN STRESSES

fy = 60,000 psi
f'c = 3,500 psi

LOADING HS 20–44

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT END SECTION, CULVERT NO. 3 DETAILS

CENTERLINE STA. 213+42.81

IL. ROUTE 336

DRAWN BY JSD

DATE 1/05/06 CHECKED BY WDL