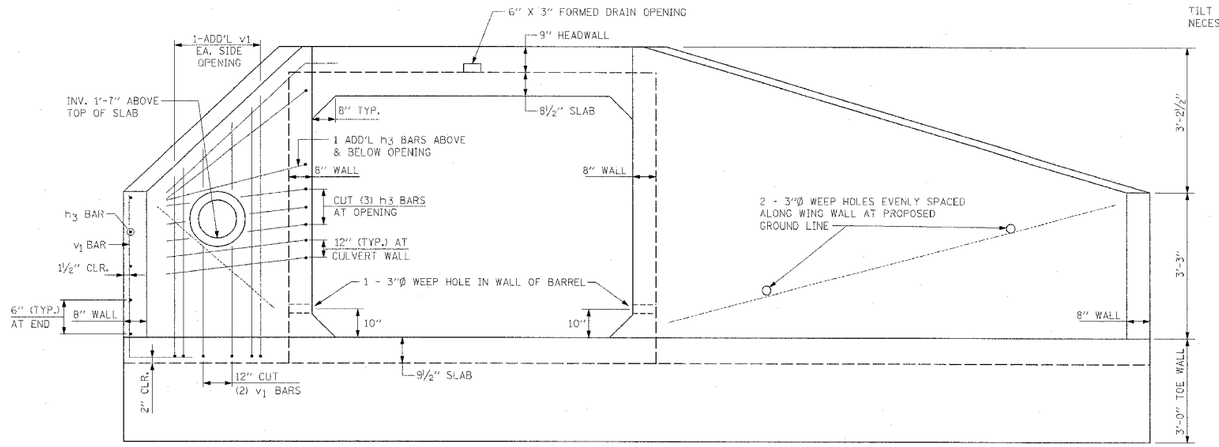
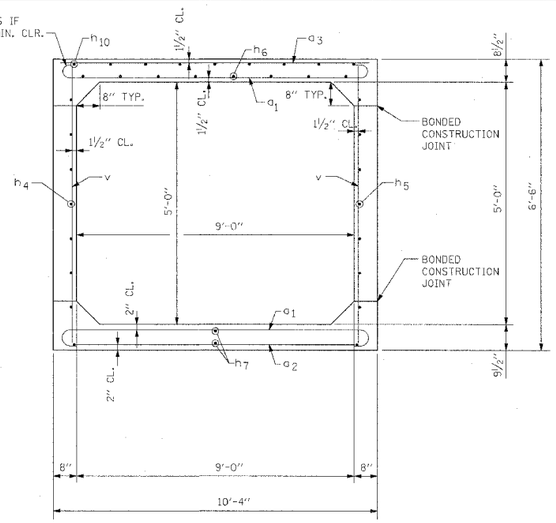
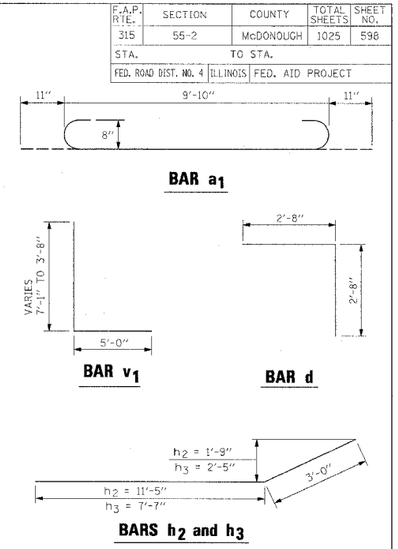
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	55-2	McDONOUGH	1025	598
STA.		TO STA.		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

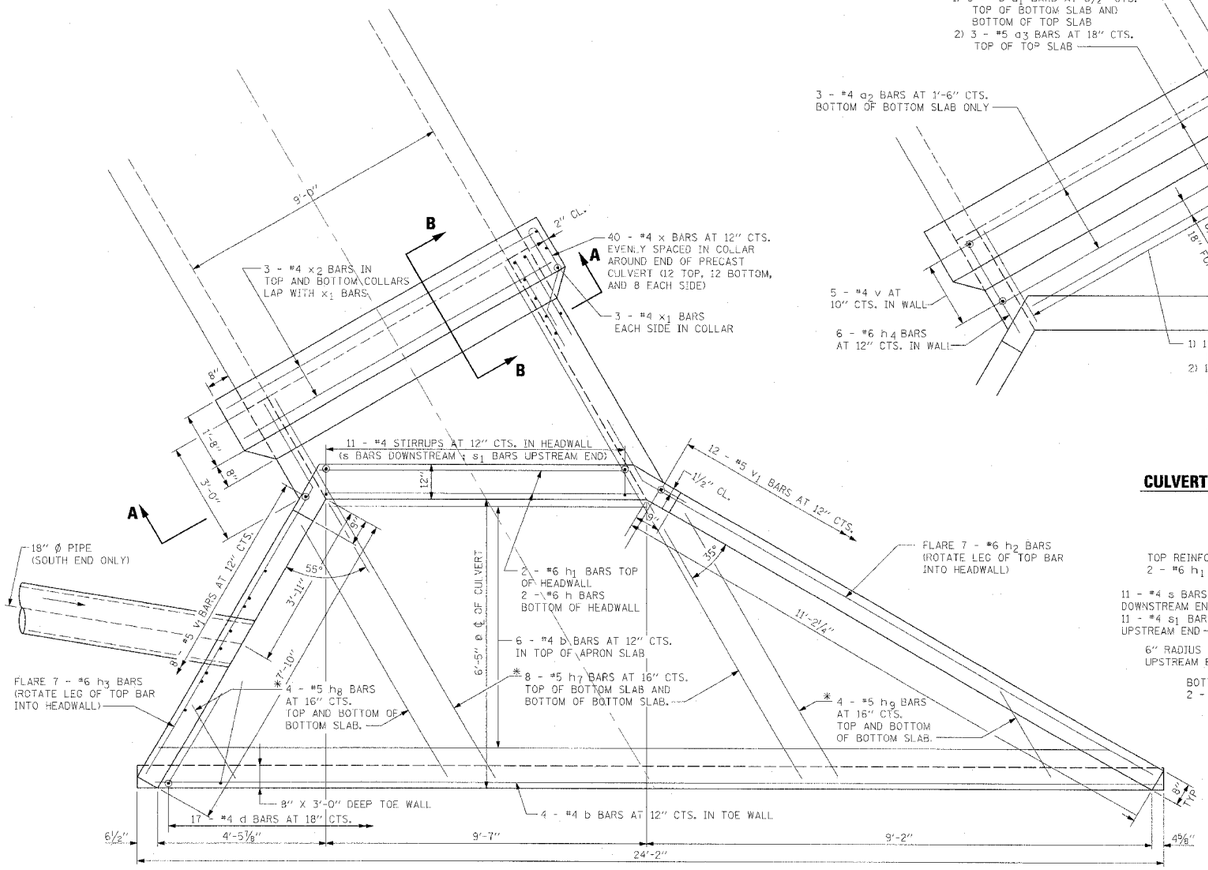


END ELEVATION



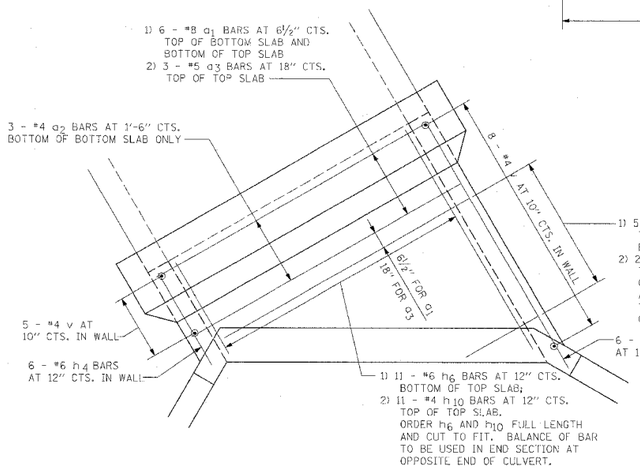
SECTION A-A



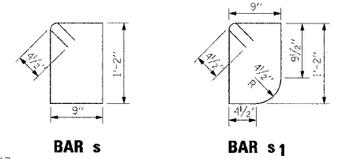


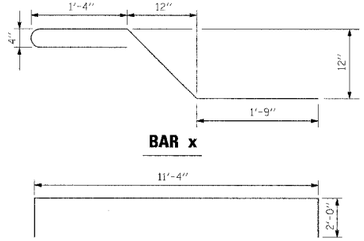
* ORDER BARS h7, h8, h9 FULL LENGTH. CUT TO FIT AND USE REMAINDER AT OPPOSITE END OF CULVERT.

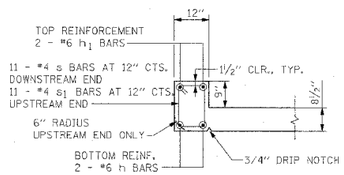
PLAN



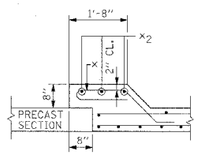
CULVERT SLAB PLAN







SECTION THRU HEADWALL



SECTION B-B THRU COLLAR

DESIGN STRESSES

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

LOADING HS 20-44

BILL OF MATERIAL
(For Two End Sections)

Bar	No.	Size	Length	Shape
* a1	34	#8	11'-8"	
a2	6	#4	10'-0"	
* a3	8	#5	10'-0"	
* b	20	#4	11'-6" TO 23'-9"	
d	34	#4	5'-4"	
h	4	#6	10'-8"	
h1	4	#6	9'-3"	
h2	14	#6	14'-5"	
h3	16	#6	10'-7"	
h4	12	#6	3'-0"	
h5	12	#6	6'-5"	
* h6	11	#6	9'-5"	
* h7	11	#6	22'-10"	
* h8	8	#6	6'-9"	
* h9	8	#5	7'-3"	
* h10	8	#4	9'-5"	
s	11	#4	4'-7"	
s1	11	#4	4'-5"	
v	26	#4	6'-2"	
* v1	42	#5	12'-1" TO 8'-8"	
x	80	#4	6'-2"	
x1	12	#4	7'-4"	
x2	12	#4	15'-4"	
* MAY FIELD BEND AND/OR FIELD CUT				
Box Culvert End Section, Culvert No. 2		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. 2, 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.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT END SECTION, CULVERT NO. 2 DETAILS
CENTERLINE STA. 176+37.65.
IL. ROUTE 336

DRAWN BY JSD
DATE 1/05/06 CHECKED BY WDL

DTL-BOX CULV 2 176+38-DE.dgn 3/30/2006 4:52:30 PM