



MINIMUM BAR LAP

#4 bar = 2'-1"
#5 bar = 2'-7"
#6 bar = 3'-1"

Notes:

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

Reinforcement bars designated (E) shall be epoxy coated.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a(E)	208	#7	22'-10"	U	
a ₁ (E)	208	#10	10'-0"	—	
a ₂ (E)	86	#4	7'-4"	—	
d(E)	42	#4	4'-6"	L	
h(E)	64	#6	24'-2"	—	
h ₁ (E)	72	#5	23'-11"	—	
h ₂ (E)	36	#5	23'-11"	—	
h ₃ (E)	40	#7	8'-0"	—	
h ₄ (E)	32	#7	13'-4"	—	
h ₅ (E)	10	#6	20'-8"	—	
h ₆ (E)	64	#6	21'-8"	—	
h ₇ (E)	72	#5	21'-5"	—	
h ₈ (E)	36	#5	21'-5"	—	
v(E)	391	#4	7'-3"	—	
v ₁ (E)	16	#4	10'-2"	—	
Concrete Box Culverts				Cu. Yd.	154.1
Reinforcement Bars, Epoxy Coated				Pound	32560

DB-H-0 7-1-10 (Modified)

FILE NAME = ...0782010-68511-006-BoxCulvert.dgn
PLOT SCALE =
PLOT DATE = 12/09/2011 17:55:57

DESIGNED - DCD
CHECKED - LKS
DRAWN - P. Ray
CHECKED - DCD

REVISIED -
REVISIED -
REVISIED -
REVISIED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS
STRUCTURE NO. 078-2010

SHEET NO. 6 OF 8 SHEETS

F.A.P. RT. SECTION COUNTY TOTAL SHEETS SHEET NO.
698 (2) BR-1 & BR-2 PUTNAM 71 45
STA. 203+04 CONTRACT NO. 68571
ILLINOIS FED. AID PROJECT