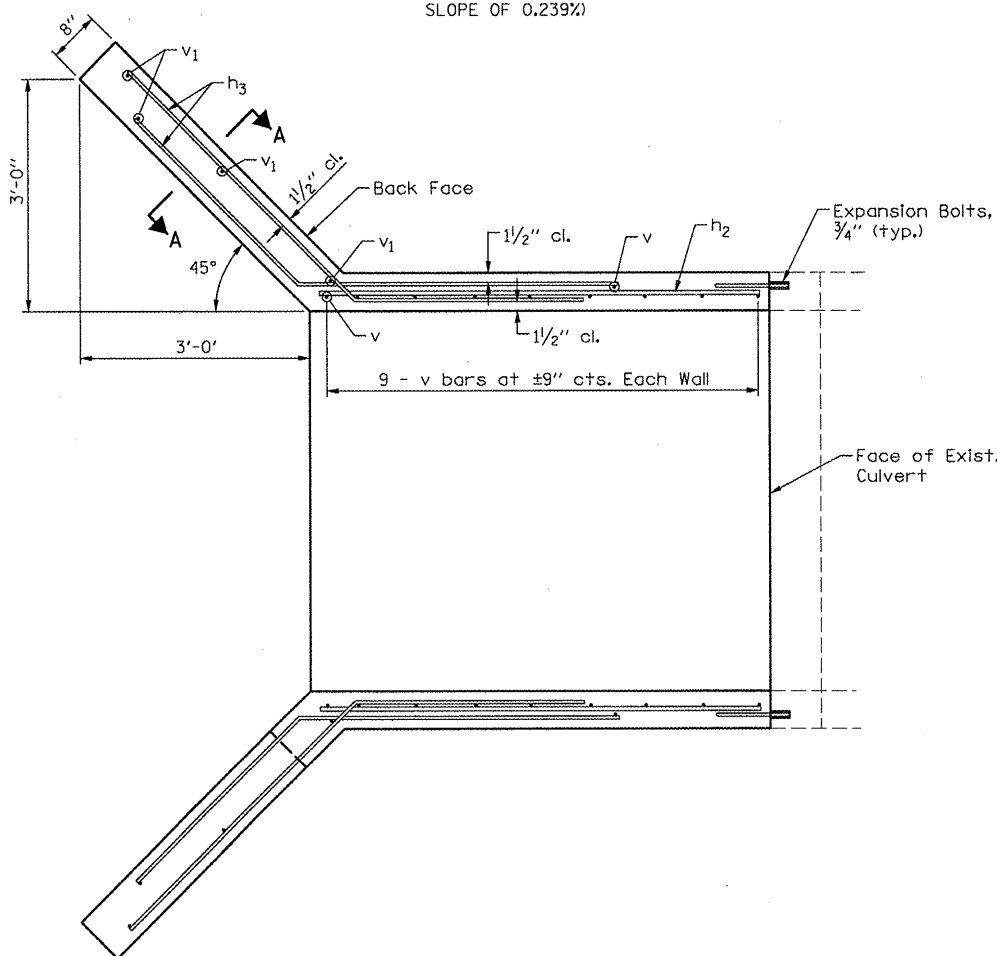
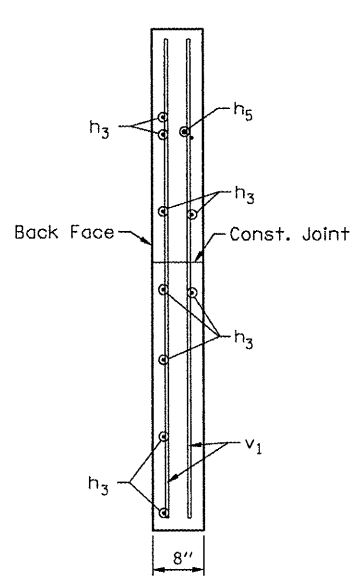


HALF LONGIT. SECTION

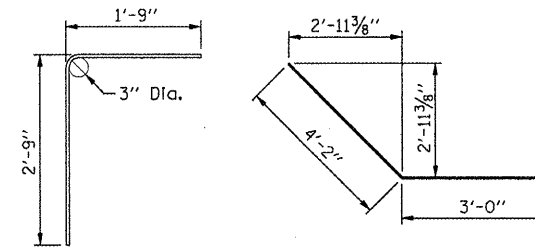
* USFL EL. 544.43, DSFL EL. 544.29
(EXTENSION MATCH EXISTING CULVERT
SLOPE OF 0.239%)



HALF PLAN BARREL & WINGWALLS



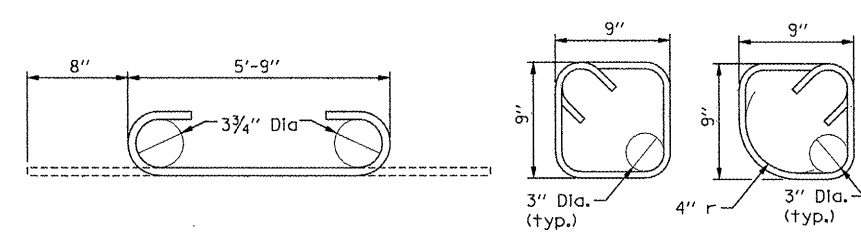
SECTION A-A



BAR d

BAR h₃

BAR h₆



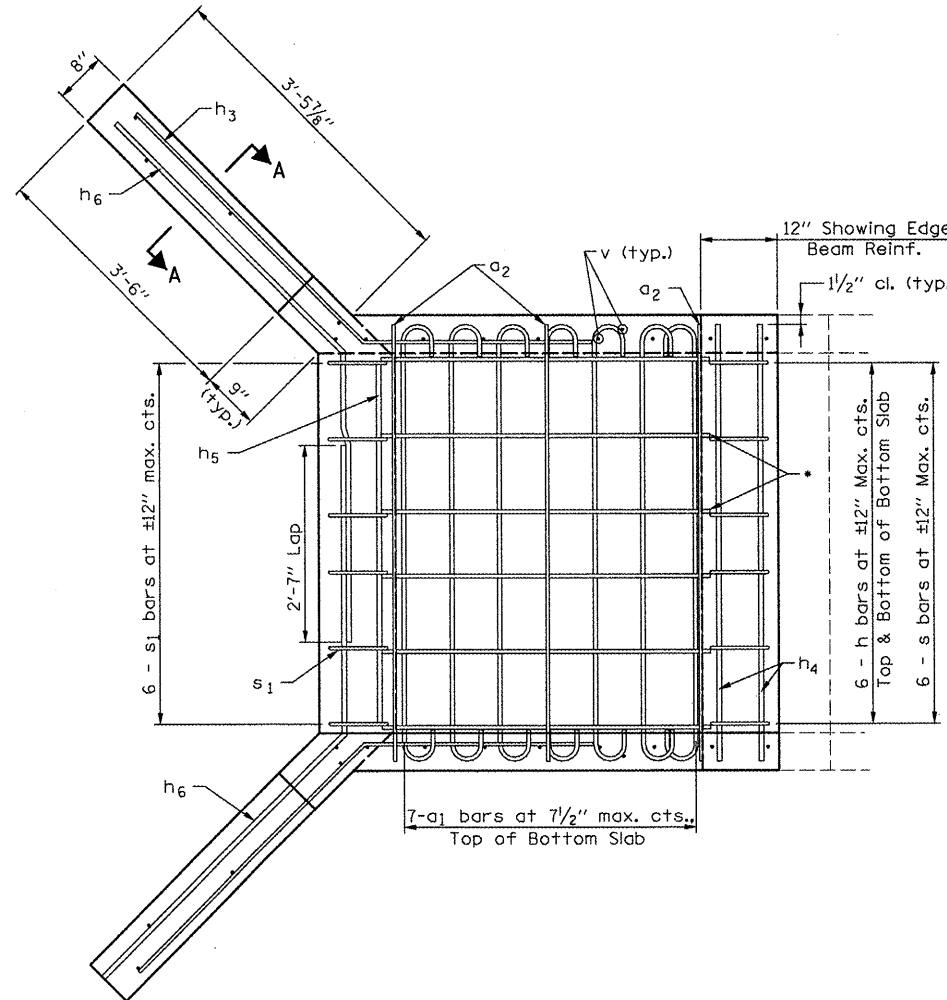
BAR a₁

BAR s

BAR s₁

**BILL OF MATERIAL
UPSTREAM AND DOWNSTREAM EXTENSIONS**

BAR	SIZE	NO.	LENGTH	SHAPE
a ₁	#5	32	7'-1"	
a ₂	#4	12	5'-9"	
d	#4	14	4'-6"	
h	#5	24	4'-4"	
h ₁	#4	24	5'-9"	
h ₂	#5	20	5'-9"	
h ₃	#4	40	7'-2"	
h ₄	#6	16	5'-8"	
h ₅	#6	6	4'-9"	
h ₆	#6	4	8'-0"	
s	#4	24	3'-7"	
s ₁	#4	12	3'-7 1/4"	
v	#4	40	3'-3 1/2"	
v ₁	#4	16	6'-2 1/2"	
CONCRETE BOX CULVERTS			CU. YD.	8.3
CONCRETE REMOVAL			CU. YD.	3.2
REINFORCEMENT BARS			POUND	1,308
EXPANSION BOLTS 3/4 INCH			EACH	24



HALF PLAN TOP SLAB & HEADWALL

* Note that h bars cannot extend to ends due to conflict /w h₄ and h₅ bars.

Notes:

- The barrel shall be poured monolithically with the wingwalls.
- Reinforcement bars shall conform to requirements of AASHTO M-31, M-42, or M-53 Grade 60
- All construction joints shall be bonded.
- Attention is called to Sections 502, 503, and 540 of the Standard Specifications. All required excavation, foundation and bedding, and backfilling work and materials shall be included as part of the CONCRETE BOX CULVERTS pay item work.
- A bedding under the extensions consisting of compacted CA-6 (6") over an underlying layer of riprap (Class A3, 8") shall be constructed, as required due to wet conditions. The thicknesses of this bedding shall be increased, as required, such that the bottom of the bedding layer is a minimum of eight (8) inches below existing ground surfaces, as needed.

FILE NAME = SS_BOXCULV11632.63141.dgn
#FILE#
HMG JOB NO. 6314.1

USER NAME = #USER#	DESIGNED - CRW	REVISED -
PLOT SCALE = #SCALE#	DRAWN - CRW & EDW	REVISED -
PLOT DATE = #DATE#	CHECKED -	REVISED -
	DATE - 1-7-10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE BOX CULVERT DETAILS
S. FOURTH ST. - STA. 116 + 32.59**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9833	05-00016-02-WR	BOND	85	57
CONTRACT NO. 97426			ILLINOIS FED. AID PROJECT	