SECTION A - A

b-b₅ @ 1.25' CTRS.

PLAN

18 - #4w-w, @ 1.5' CTRS.

- 31**.**07′ -

#4b-b₄ @ 1.25' CTRS.

6 - #4a @ 1.5' CTRS.

1.50%

13-#4v₁ -v₁₃@ 1.0' CTRS. 9-#4v₁₄-v₂₂@ 1.0' CTRS.

S.N. 010-8320

DETAIL OF BOX CULVERT END SECTION

A.R. BOX CULVERT 1 @ 12.0' X 4.0'

STA. 484 + 94.18 (CULVERT NO. 1)

∜4a @ 1.5′ CTRS.

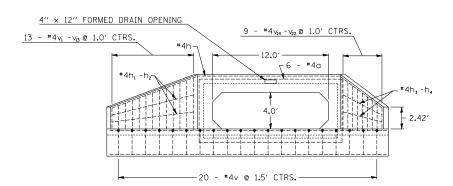
#4a @ 1.5' CTRS.

#4h₃ -h₄

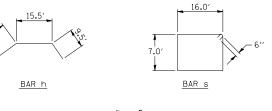
- #4v₁₄ - v₂₂ @ 1.0' CTRS.

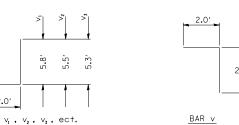


* 113(RS-5,BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864



END VIEW





BARS V₁ , V₂ , V₃ , ect.

- All bars should be rounded and shall conform to the requirements of Art. 1006.10 of Standard Specs.
- Class SI Concrete shall be used throughout.
- The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M259.
- \bullet All dimensions are in FEET (')-INCHES ('') unless otherwise noted.
- Concrete and Rebar quantities and lengths calculated for the cast-in-place End Sections will vary based on the precast box culverts supplied.
- End Sections will be paid for at the contract unit price each for BOX CULVERT END SECTION CULVERT No., as outlined in Art, 540.08, which prices shall include all concrete, rebar, and all other items necessary to complete the proposed work
- Drain holes shall be provided in accordance with Art. 503.12.
- Drawings not to scale.
- The span demension on the End View gives the opening span for the Box Culvert. Due to the Skew of the box the End Section opening is larger.

Bar	No.	Size	Len	gth (ft)	Shape
G	- 8	#.4	45.0		
b	1	#.4	18.7		
b.	1	#.4	21.3		
b,	1	#.4	21.3 23.9		
D ₁	1	#4	26.5		
b ₄	i	# /4	29.0		
D ₂	2	# .4		30.7	
h h	1	#.4		38.0	
h.	1	#.4		12.7	
n ₂	1	#.4		12.7 12.4	
h ₃	1	#.4		9.0	
h _a	1	#.4		8.8	
	2	#.4		47.0	
S V	20	# .4		4.7	7
		#.4		7.8	
Vi.	1	#.4		7.6	
V ₂	1	#.4		7.5	
V ₃	1			7.3	
V4	1	#.4		7.0	
V _S	1	#4		6.7	
Vá	1	#4		6.4	
V ₇	1	#.4	6.1		
ښ۷	1	# /4	5.9		
V _a	1	# .4	5.6		
Vie	1	#.4		5.3	
Vii	1	#4		5.0	
Via	1	#.4		4.7	
V ₁₃	1	#.4		4.5	
Vi4	1	#4		7.8	
Vis	1	#74		7.4	
Vis	1	#.4		6.9	
Vir	1	#.4		6.5	
Vie	1	#74		6.1	
Vis	1	#.4		5.7	
Ași Aia	1	#.4		5.3	
Vist	1	# .4		4.9	
	1	#.4	4.5		
	11	#.4	7.0		
	1	#.4		6.7	<u> </u>
745 745	1	#.4	5.1 g.c		
W ₂	1	#.4	5.6		
W ₃	1	# .4	4.5		$\vdash =$
W4		#4	3.4		
W ₈	1			2.3	
N.2	1	#.4	3.5		
W-7	1	#.4	6.4		
ي.٧	1	#.4	4.2		
<u></u>					
	orcem			LB.	647
Class	SI Co	nc. Hd	CU. YD.	18.7	
ITEM UNIT QUAN					
	ITEM				QUANT.

BILL OF MATERIAL (ONE HEADWALL)

NAME PLATE

BAR a

STATION 484+94.18 BUILT 2006 BY STATE OF ILLINOIS F.A.P. RT. 709 SEC 113(RS-5, BR)&114RS-2 LOADING HS20 STR. NO. 010-8320

SEE STD. 515001

S.N. 010-8320 BOX CULVERT END SECTIONS (CAST IN PLACE) 1 @ 12.0' X 4.0' STA. 484+94.18 20° SKEW

Box Culvert End

REINFORCED	CONCRETE	HEADWALL	DETAILS
REVISIONS	III INOIC DEF	ADTHENT OF TO	NCDODIATION

EACH

	AIE	NIVIE	INA
CULVERT DETA	_		
l vent			

SCALE: VERT. HORIZ. DATE 032105

DRAWN BY JDC CHECKED BY