

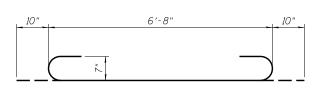
 $12^{\prime\prime\prime}$  x  $12^{\prime\prime\prime}$  x 6" block of CA5, CA7, or CAIl coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric. Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Fabric shall be sealed to the concrete with mastic.

> 3" \$\phi\$ PVC drain cast with the concrete (Adjust location to clear reinforcement)

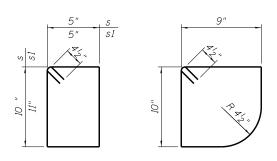
½'' Square foam blockout around PVC drain (to be removed with formwork)

## DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain details will not be measured for payment but shall be included in the contract unit price for the end section.)

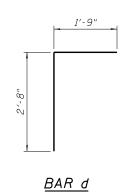


### BAR a1



BAR s2

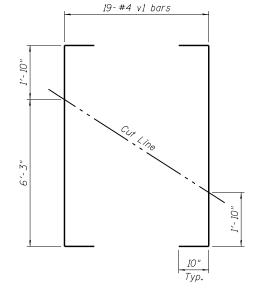
BARS s & s1





BAR v

10"



### CUTTING DIAGRAM

Order bars full length. Cut as shown and use remainder of bars in opposite wall.

# BILL OF MATERIAL

(For Information Only)

Bar	No.	Size	Length	Shape		
a1	44	#7	8′-4"			
a2	33	#4	6′-8"			
d	8	#4	4′-5"			
h	9	#7	4'-0"			
h1	14	#4	22′-5"			
h2	12	#5	20′-9"			
h3	12	#6	6′-8"			
h4	2	#5	17′-9"			
h5	10	#5	2′-8"			
h6	10	#6	2'-3"			
S	7	#4	3′-3"			
<i>s1</i>	7	#4	3′-5"			
<i>s</i> 2	8	#4	3′-9"	D		
V	20	#4	6′-8"			
v1	19	#4	9′-9"			
L	escripti	Unit	Quantity			
Concre	te Box	Cu. Yd.	8.1			
Reinfor	rcement	Pound	1,950			

WILLS BURKE KELSEY ASSOCIATES LTD.

116 West Main Street, Suite 201
St. Charles, Illnois 60174

USER NAME = hferstl	DESIGNED	-	DLS	REVISED	-
	CHECKED	-	AEU	REVISED	-
PLOT SCALE =	DRAWN	-	DLS	REVISED	-
PLOT DATE = 3/20/2013	CHECKED	-	AEU	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

BOX CULVERT	END SECTION				LS - STA. 866 + 20.95 RT. 31–1054
	SHEET NO.	3	OF	6	SHEETS

F.A.P. RTE.	SECTION			COI	TOTAL SHEETS		SHEET NO.			
599	(83MFT & 103MFT)W				ROCK	ISLAND	340		155	
						CON	TRACT	NO.	64	4H11
EED BO	AD DIST N	<u> </u>	TI I INOIS	EED	۸1	D PPO I	ECT			