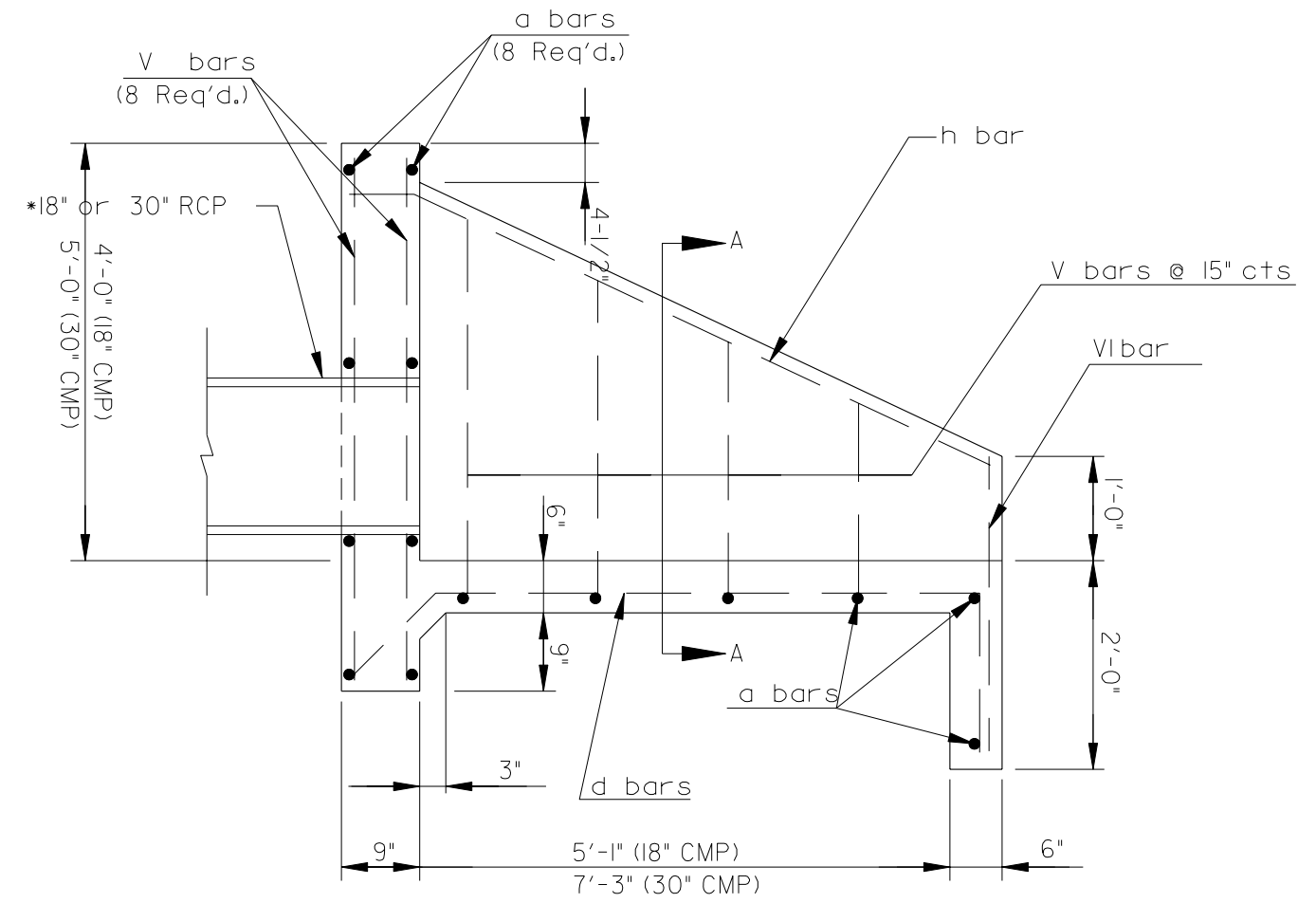
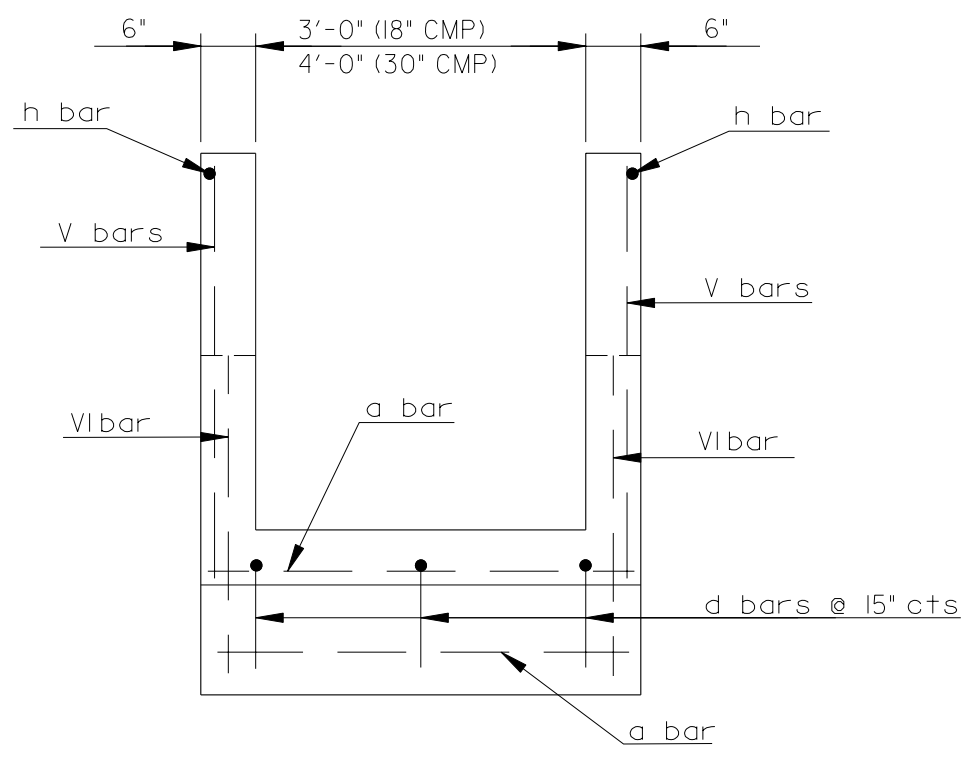


PLAN
NTS



ELEVATION
NTS



SECTION A-A

18" CMP Concrete Headwall

Bar No.	Quantity	Size	Length
V0	8	#4	4.83'
v	2	#4	3.58'
h bar	2	#4	2.96'
v	2	#4	2.33'
v	2	#4	1.71'
VI	2	#4	2.58'
a bar	14	#4	3.50'
h	2	#4	6.43'
d	3	#4	7.42'

Reinforcement Total 99.6 lbs
Concrete Total 1.53 C.Y.

30" CMP Concrete Headwall

Bar No.	Quantity	Size	Length
V0	8	#4	5.83'
VI	2	#4	2.58'
h bar	2	#4	4.58'
v	2	#4	3.96'
v	2	#4	3.33'
v	2	#4	2.71'
v	2	#4	2.08'
a	15	#4	4.50'
h	2	#4	8.86'
d	4	#4	9.59'

Reinforcement Total 139.3 lbs
Concrete Total 5.42 C.Y.

- NOTE:
- All Reinforcement Bars are #4 (Grade 60).
 - At The Contractor's Option Class AAA (AE) May Be Used Throughout, But Payment Shall Be Made as Cu. Yds. of Class AAA Concrete.
 - * 3. Restrained joints shall be used for the greater of 3 joints or 12' measured from the headwall.

Concrete Headwall Totals
Class AAA Concrete 13.9 C.Y.
Reinforcing Steel (Grade 60) 478 LBS.

CITY OF WICHITA
JAMES ARMOUR, P.E., CITY ENGINEER
GYPSUM CREEK
CONCRETE HEADWALL
FOR PIPE CULVERTS
CITY OF WICHITA PROJECT NO. 468-82473

PB PARSONS BRINCKERHOFF
Wichita, Kansas

SCALE _____ DATE 11/27/2007 DWG. NO. 32158A

k:\32158A\CADD\SHEETS\DRAINAGE\14 headwall.dgn
 SURV. JG, CP, PLOT CADD DES. - DR. - APP. - CKD. - TR.