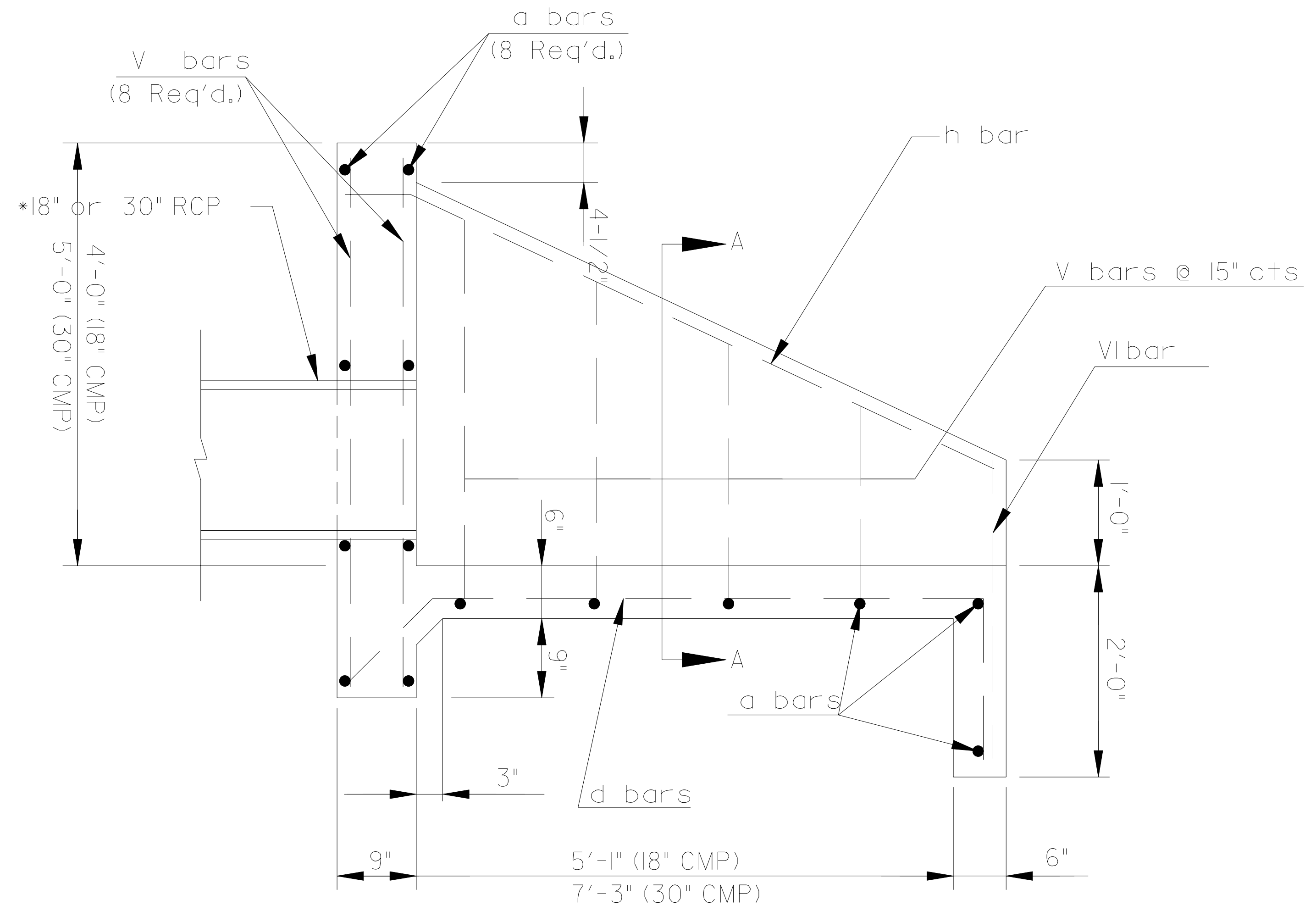
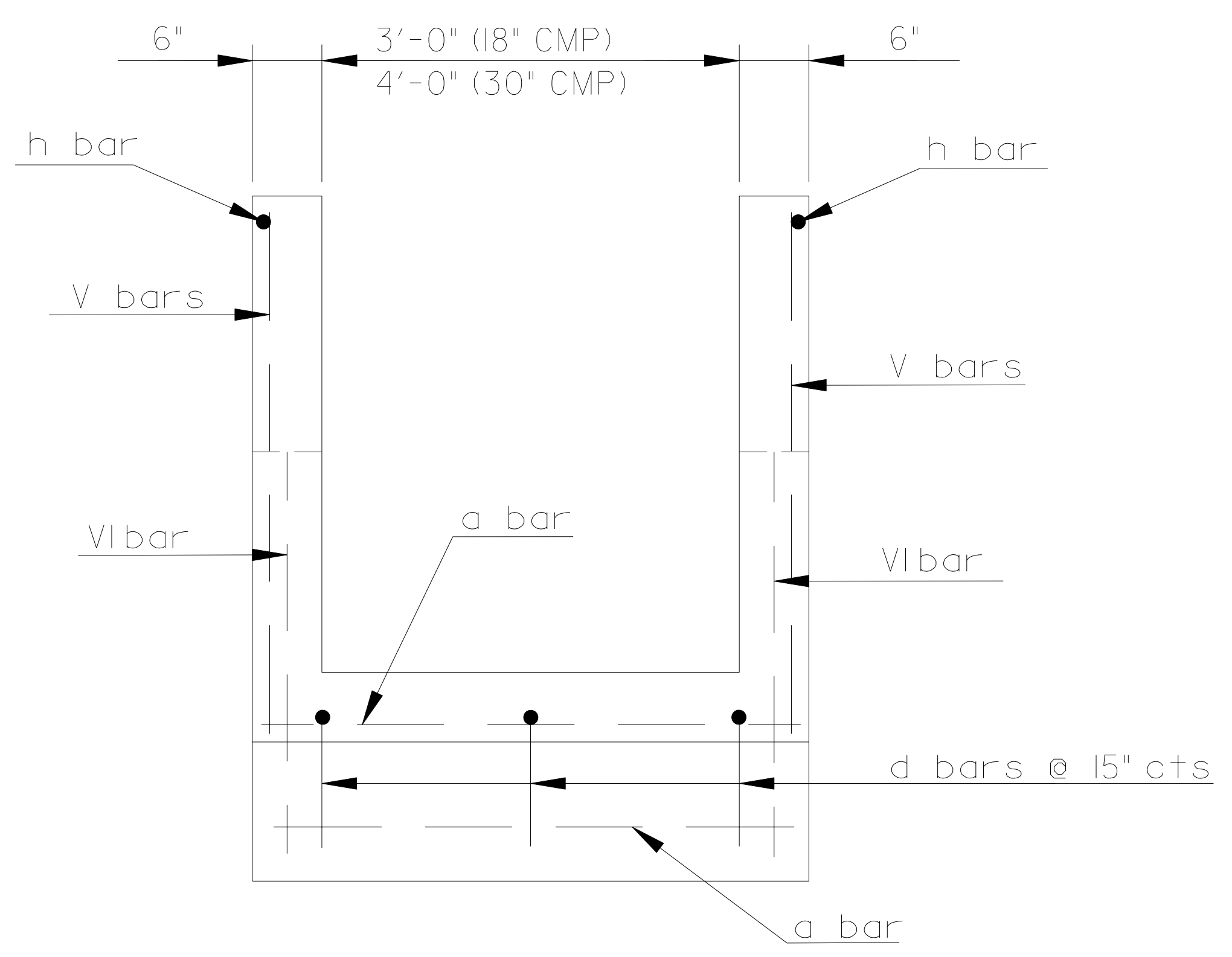


PLAN  
NTS



ELEVATION  
NTS

- 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.



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'
VI	2	#4	1.71'
a	14	#4	2.58'
h	2	#4	3.50'
d	3	#4	6.43'

Concrete Headwall Totals  
 Class AAA Concrete 8.5 C.Y.  
 Reinforcing Steel (Grade 60) 339 LBS.

30" CMP Concrete Headwall

Bar No.	Quantity	Size	Length
V0	8	#4	5.68'
VI	2	#4	5.08'
h bar	2	#4	1.50'
v	2	#4	0.84'
d bar	3	#4	1.50'

Reinforcement Total 99.6 lbs  
 Concrete Total 1.53 C.Y.

Reinforcement Total 139.3 lbs  
 Concrete Total 5.42 C.Y.

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 10/31/2007 DWG No. 32158A