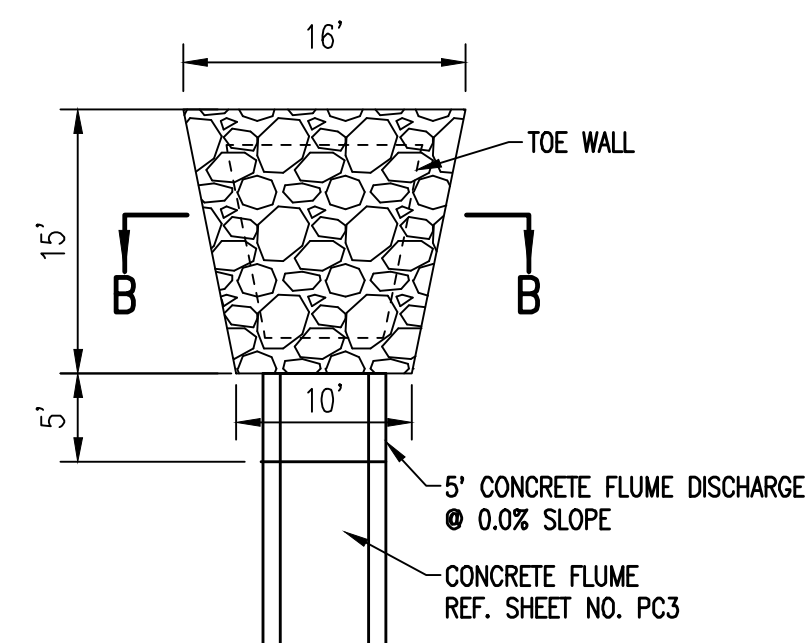


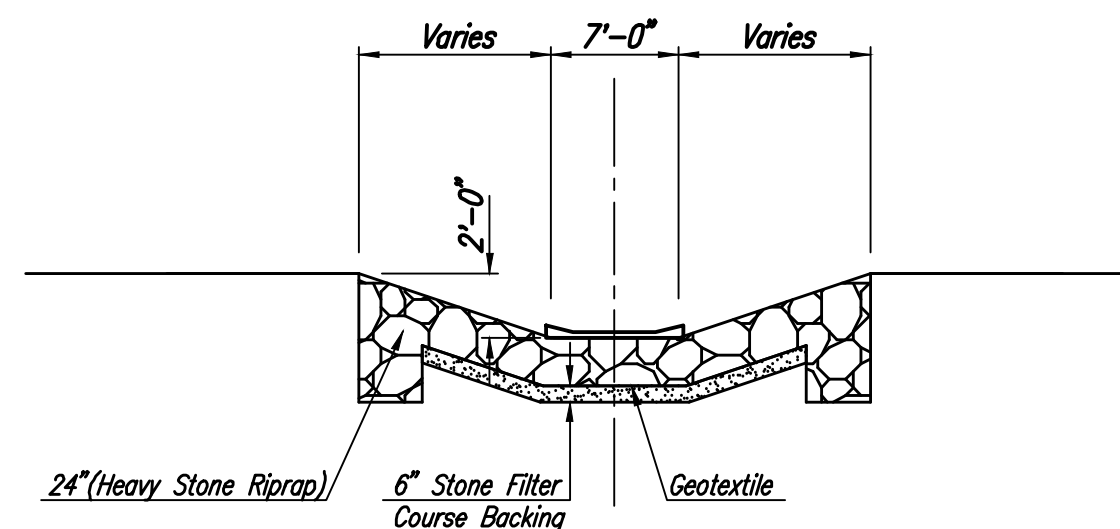
**CONCRETE FLUME DETAIL**

**CONCRETE FLUME NOTES**

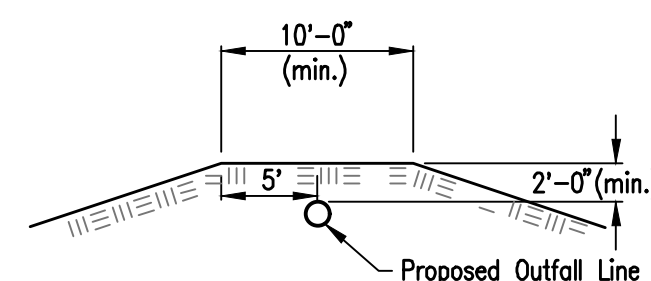
1. CONCRETE SHALL BE CLASS 1 AND CONFORM TO STANDARD SPECIFICATIONS. CONCRETE SHALL BE REINFORCED WITH SYNTHETIC FIBERS AND SHALL HAVE A SLUMP OF LESS THAN OR EQUAL TO 3 INCHES.
2. SYNTHETIC FIBERS SHALL BE POLYPROPYLENE WITH A DENIER NOT LESS THAN 100, MULTI-GRADED AND HAVE A MAXIMUM NOMINAL FIBER LENGTH OF 2 INCHES. FIBER REINFORCEMENT SHALL BE ADDED TO THE CONCRETE MIX IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF ASTM C 1116 AND THE RECOMMENDATIONS OF THE MANUFACTURER. THE AMOUNT OF FIBERS TO BE ADDED TO THE CONCRETE MIX SHALL NOT BE LESS THAN 1.5 POUNDS PER CUBIC YARD.
3. JOINT SEALANT SHALL CONFORM TO ASTM D 1190 (HOT-POUR). DEPTH OF SEALANT SHALL BE AS RECOMMENDED BY THE MANUFACTURER.



**CONCRETE FLUME DISCHARGE**  
(HEAVY STONE RIPRAP)

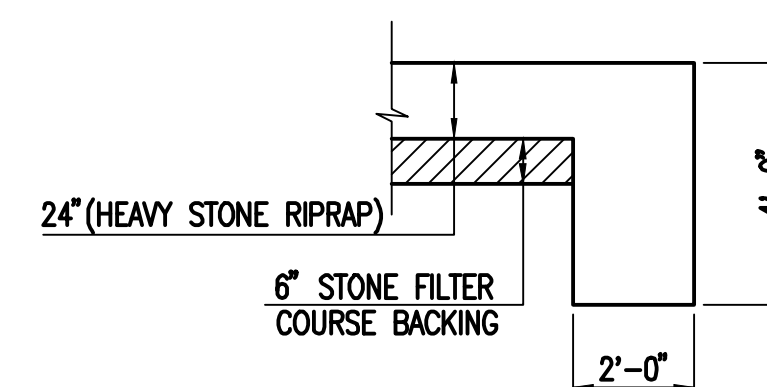


**SECTION B-B**



**PROTECTIVE FILL DETAIL**

Minimum protective fill shall be provided in all instances where cover over the proposed outfall line is less than three (2) Feet. (Cost subsidiary to pipe installation).

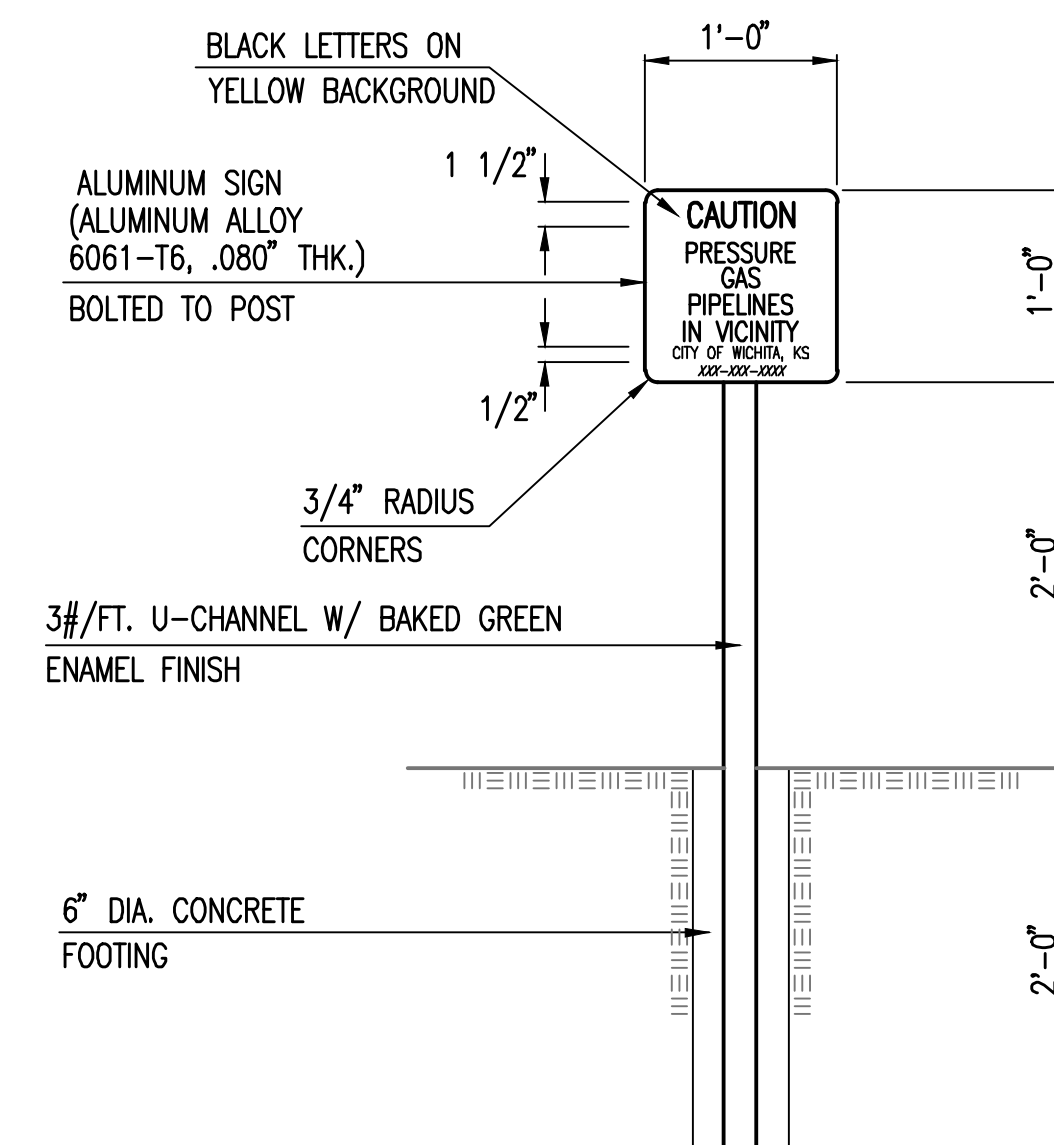


**TYPICAL SECTION THRU TOEWALL**  
NO SCALE

**NOTES**

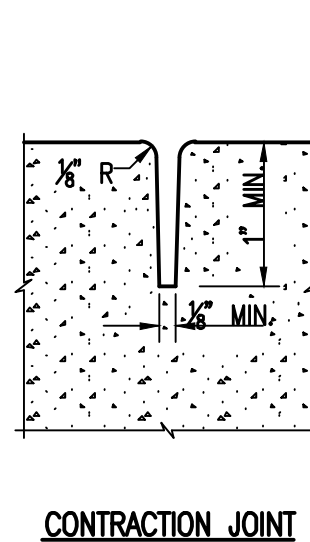
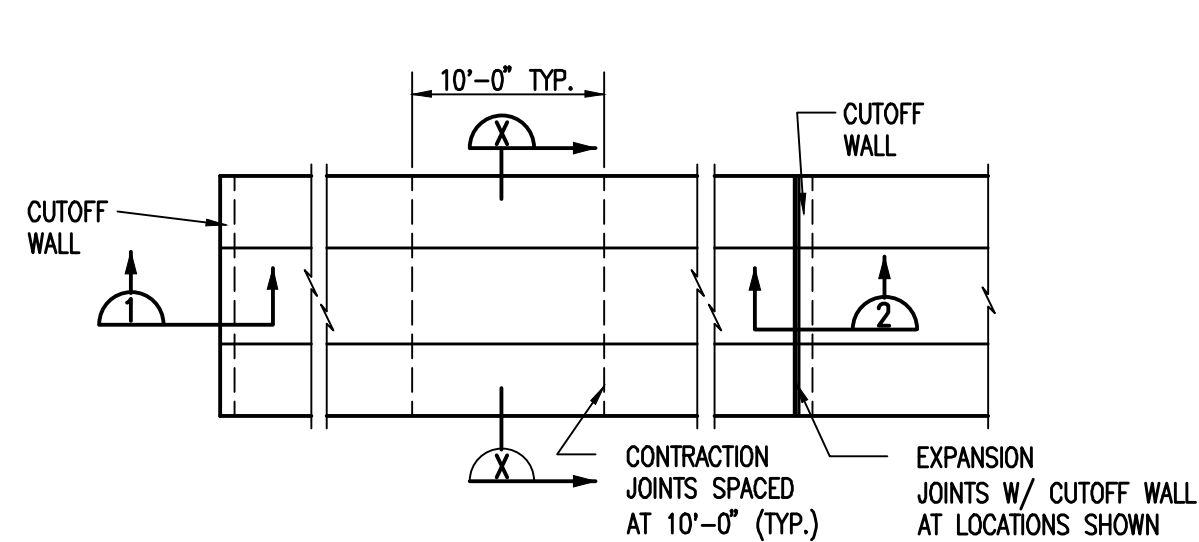
1. ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. NEITHER BROKEN CONCRETE, FABRIC ENVELOPE, NOR PREMIXED DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED, UNLESS INDICATED OTHERWISE.
2. TOEWALLS SHALL BE INSTALLED ALONG ALL UNPROTECTED EDGES OF STONE RIPRAP.
3. GROUTING OF THE SURFACE OF THE RIPRAP SHALL NOT BE PERFORMED, UNLESS INDICATED OTHERWISE. GROUTING OF THE TOEWALLS SHALL BE PERFORMED PER CITY SPECIFICATIONS.

**HEAVY STONE RIPRAP DETAILS**

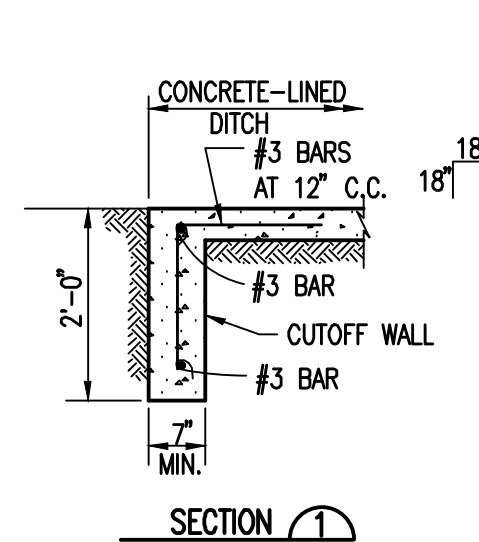
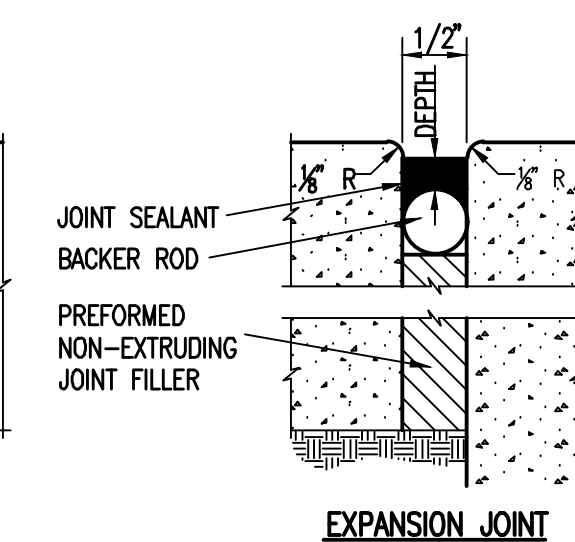


**GAS LINE WARNING SIGN DETAIL**

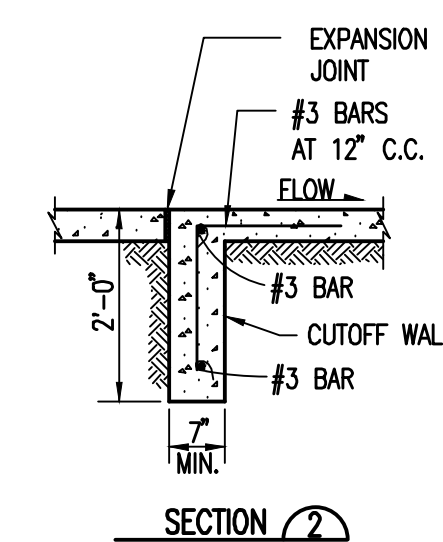
NOTE: CONTRACTOR TO VERIFY CONTACT NUMBER PRIOR TO ORDERING SIGNS.



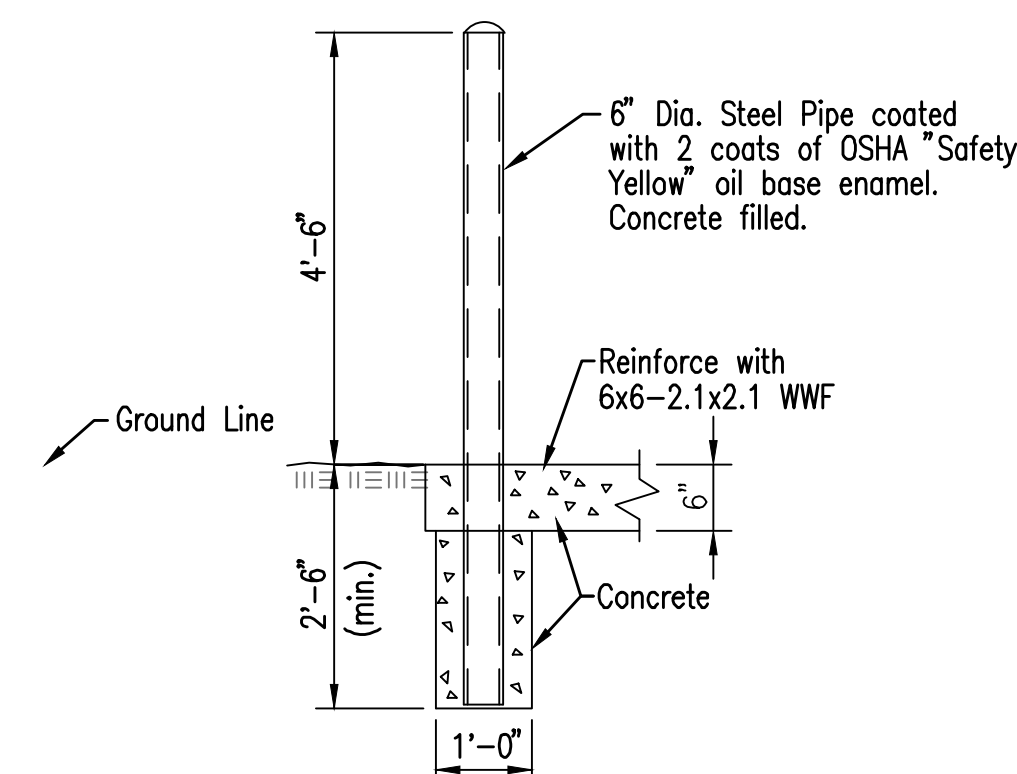
**JOINT DETAILS**  
NO SCALE



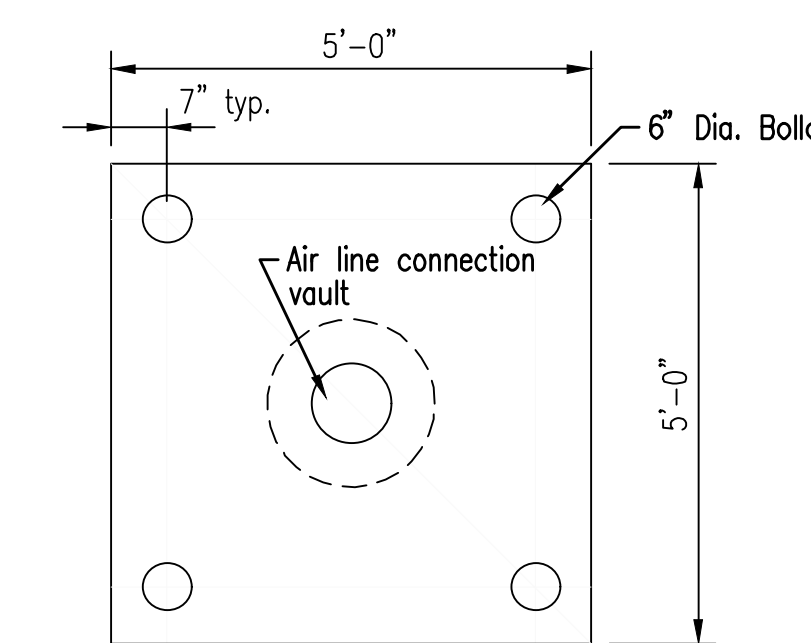
**SECTION 1**



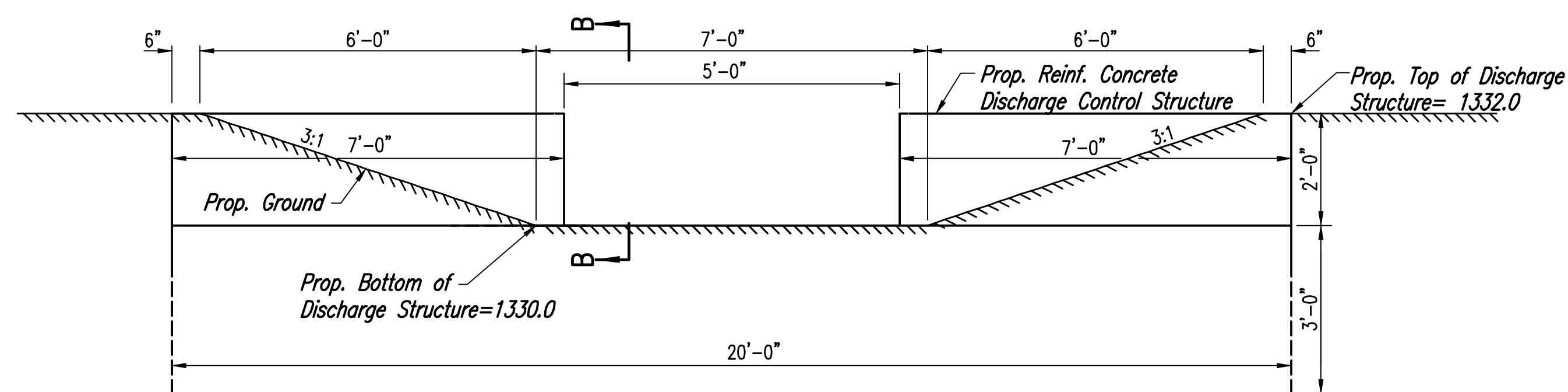
**SECTION 2**



**PIPE BOLLARD DETAIL**  
NO SCALE



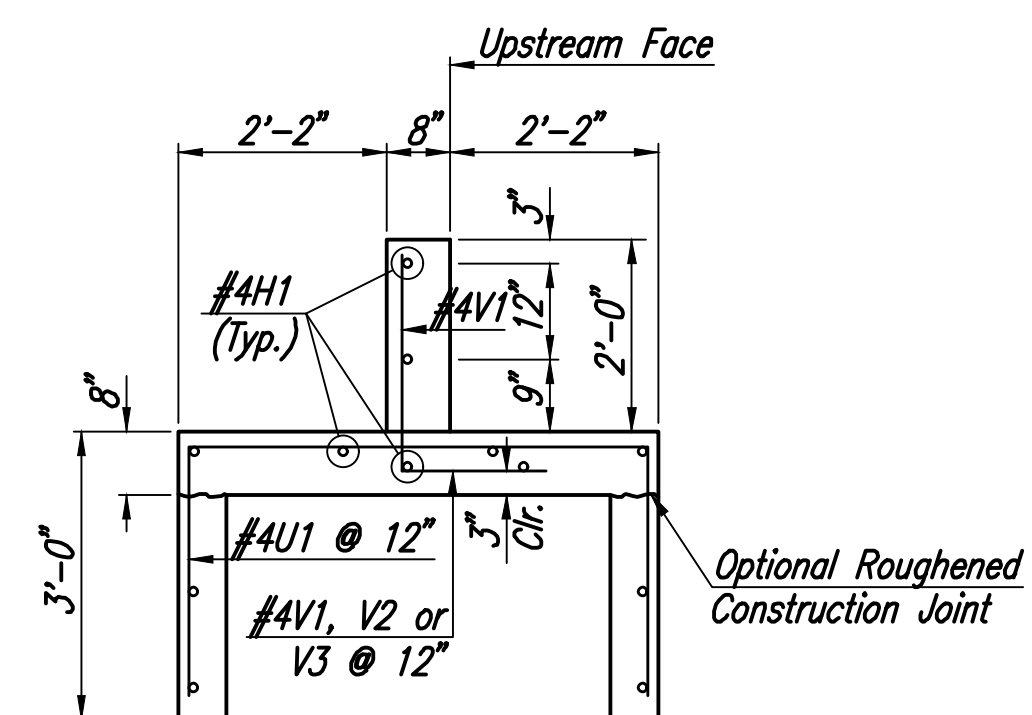
**PIPE BOLLARD AND CONCRETE PAD PLAN**  
NO SCALE



**SECTION A-A**

**DISCHARGE CONTROL STRUCTURE**

Not to Scale



**SECTION B-B**

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 C:\Wichita-Civil\2016\160316\003 Misc\Drawings\PD3 MISCELLANEOUS DETAILS

No.	Revision	By	Date
CITY OF WICHITA			
<b>MISCELLANEOUS DETAILS</b>			
LIME LAGOON OUTFALL			
Designed by RWG		Job No. 34-160316-003	
Drawn by CAF		Date JULY 2017	
			Sht. PD3 of 19