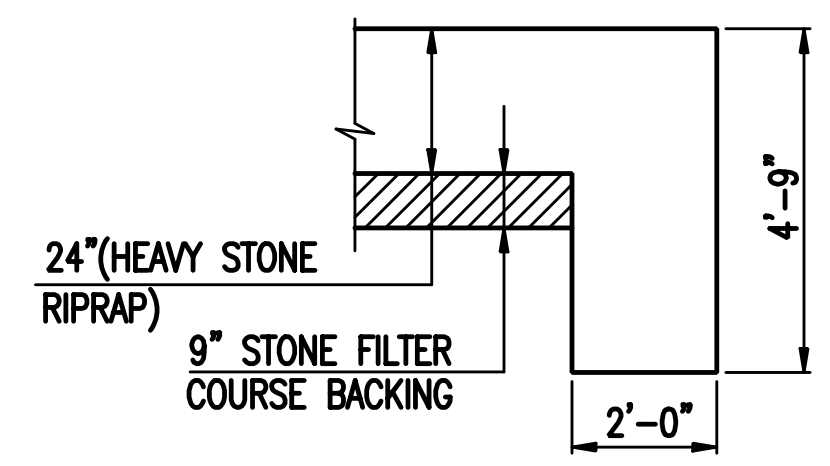


**HEAVY DUTY (H.D.) COUPLER**  
NO SCALE

NOTES

1. BOLTS TO BE A-36 1 1/2" DIAMETER.
2. BOLTS, NUTS, WASHERS AND SLEEVES TO BE ZINC PLATED.
3. WASHERS TO BE 3 1/2" O.D. X 7 GAUGE.
4. SHIP WITH NUTS AND WASHERS PLACED ON BOLTS.

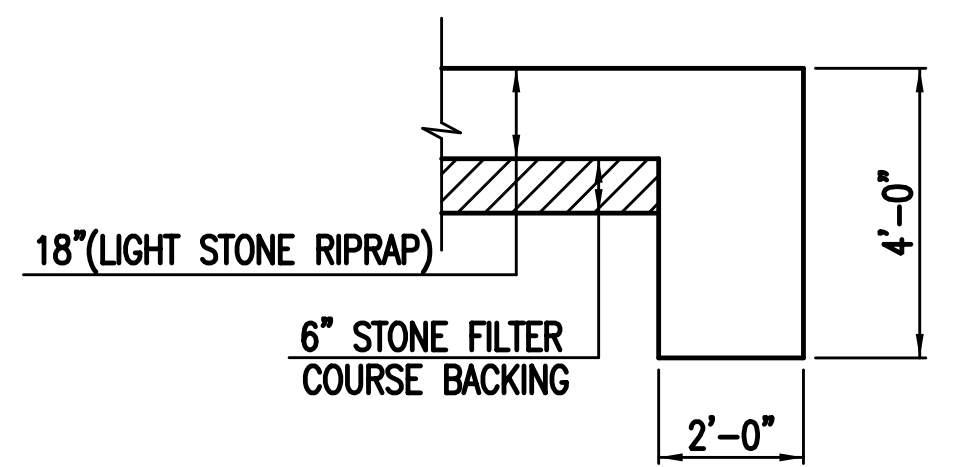


**TYPICAL SECTION THRU TOEWALL**  
NO SCALE

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**

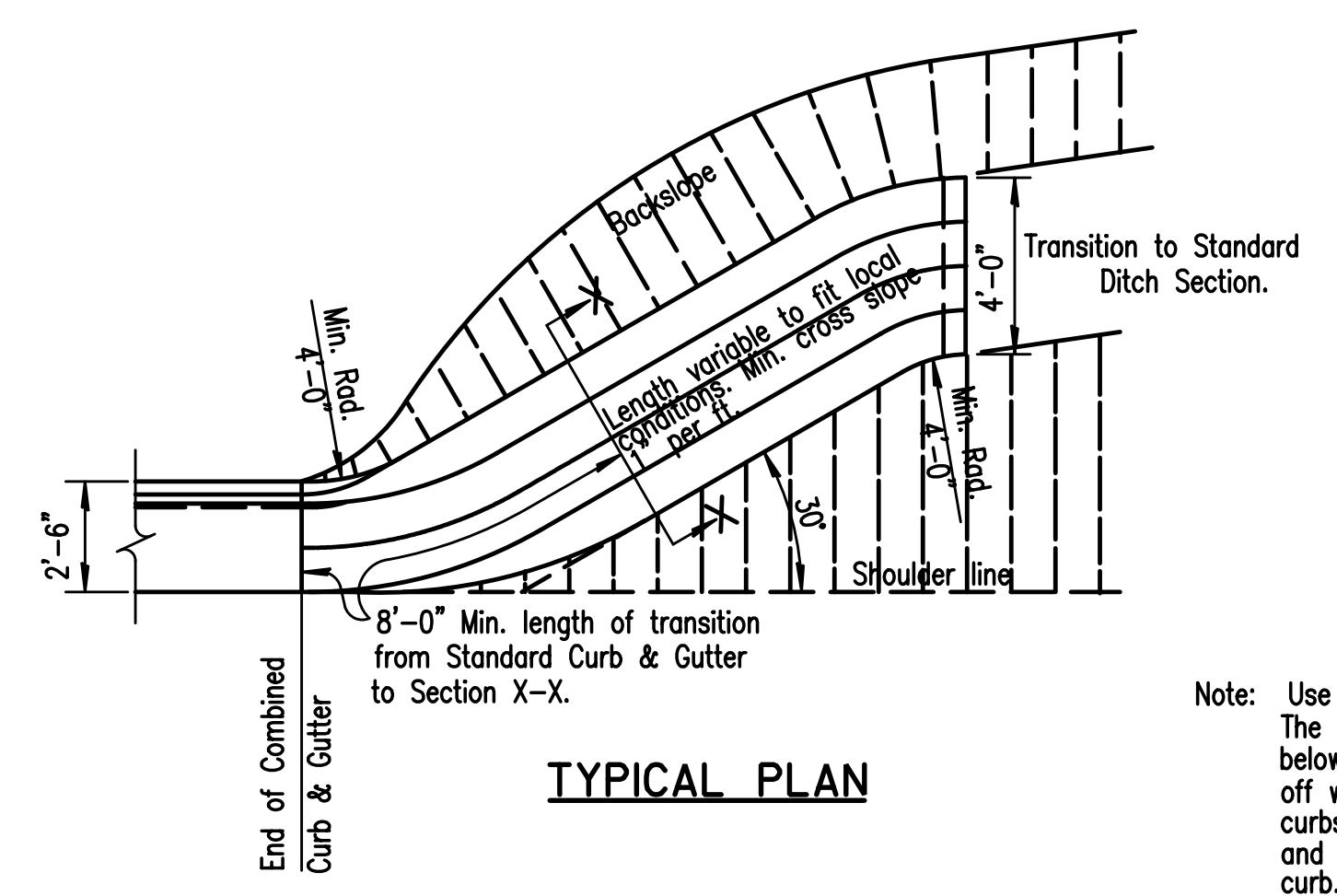


**TYPICAL SECTION THRU TOEWALL**  
NO SCALE

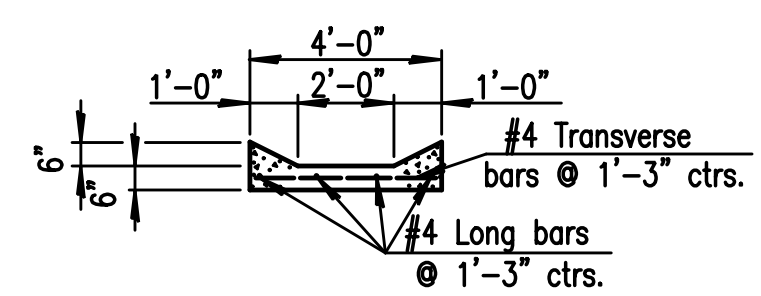
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**LIGHT STONE RIPRAP DETAILS**

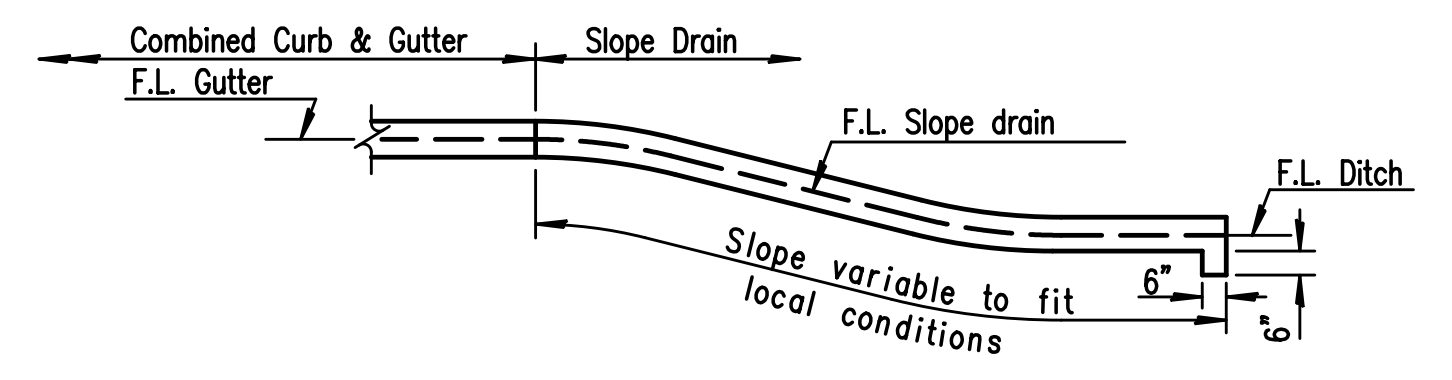


**TYPICAL PLAN**

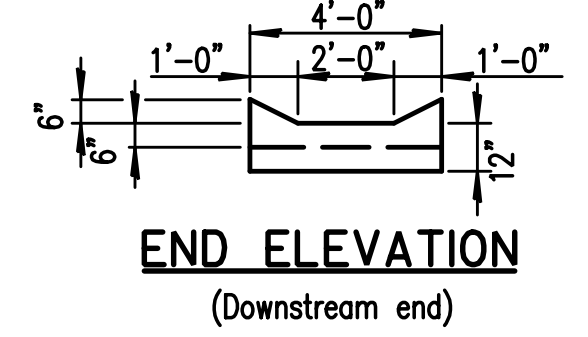


**SECTION X-X**

Note: Use Class "A" Concrete-AE throughout. The entire area of the Slope Drain (Special) below the curbs, to be poured and struck off with a uniform thickness of 6". The curbs are to be applied in the same manner and using the same methods as for edge curb. Reinforcing steel to be deformed #4 bars.



**TYPICAL ELEVATION**



**END ELEVATION**  
(Downstream end)

Adopted from KDOT STD. NO. RD722

**SLOPE DRAIN**

Sheet 10/22/2010, 5:50:58 PM by: PEF, JOHNSON  
 Proj: Sewer, 11/18/14  
 File: 2008\08207\Standards\08207-SW-401-Miscellaneous Details



<b>MISCELLANEOUS DETAILS (STORM SEWER)</b>		
CITY ENGINEER <b>GARY JANZEN, P.E.</b>		
PROJECT NUMBER 472-84692	OCA NUMBER 706992	DATE 11/2010
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		DESIGN DRAWN SHEET <b>54 of 193</b>