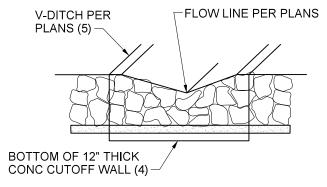


SECTION "A-A"



SECTION "B-B"

11/30/22

DATE

NOTES:

- 1. PLANS SHALL SPECIFY FOR THIS STANDARD: (A) RIPRAP CLASS AND THICKNESS (T) (B) FILTER BLANKET MATERIAL AND THICKNESS (t).
- 2. ADDITIONAL RIPRAP MAY BE NECESSARY FOR STEEP APPLICATIONS (> 5%).
- ADD 12" THICK CONCRETE SILL WHEN W>36". OR WHEN REQUIRED BY THE ENGINEER - SEE STD 314-4.
- CUTOFF WALL AND SILL DEPTH TO BE 4' OR RIPRAP THICKNESS (T) PLUS FILTER THICKNESS (t) WHICHEVER IS GREATER.
- DETAIL MAY BE UTILIZED FOR CIRCULAR CONCRETE DITCH ALSO.
- 6. FOR 3' WIDE DITCH AT SLOPE OF <5% AND A FLOW RATE < 3.0 CFS, ENERGY DISSIPATOR MAY BE 6' BY 6' No. 2 BACKING PER STD 314-4.

NOT TO SCALE

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PREPARED UNDER THE SUPERVISION OF:

DIRECTOR OF TRANSPORTATION

MARK LANCASTER, P.E.

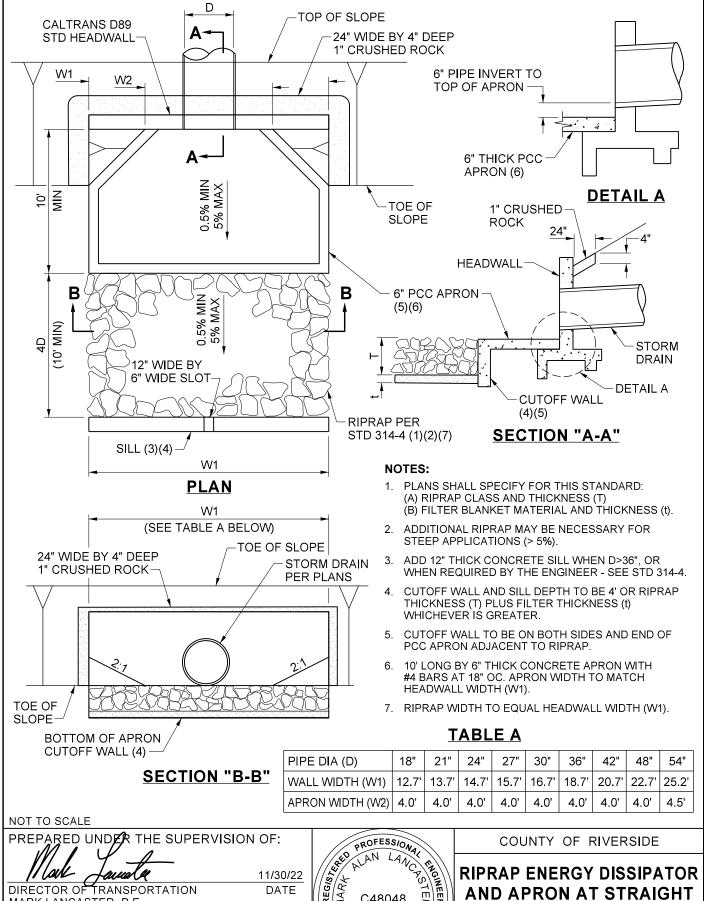
REVISION DESCRIPTION MARK DATE APPROVED



COUNTY OF RIVERSIDE

RIPRAP ENERGY **DISSIPATOR AT** V-DICTH OUTFALL

STANDARD No. 314 (2 OF 4)



MARK LANCASTER, P.E. REVISION DESCRIPTION MARK DATE APPROVED



HEADWALL OUTFALL

STANDARD No. 314 (3 OF 4)

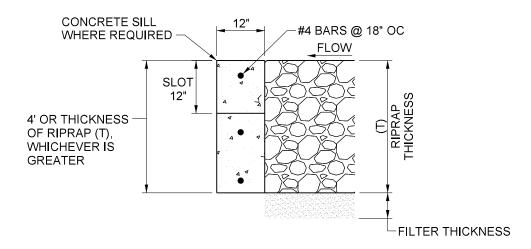
RIPRAP ENERGY DISSIPATER SIZING TABLE

DESIGN VELOCITY (FT/SEC)	RIPRAP CLASS	RIPRAP THICKNESS (T) PLACEMENT METHOD A *	RIPRAP THICKNESS (T) PLACEMENT METHOD B *	FILTER MATERIAL **	FILTER THICKNESS (t)
6-8	NO. 2 BACKING	N/A	1.25'	1" CRUSHED ROCK	0.5'
8-13	1/4 TON	N/A	3.3'	1" CRUSHED ROCK	0.75'
13-15	1/2 TON	3.4'	4.3'	1" CRUSHED ROCK	1.0'
15-17	1 TON	4.3'	5.4'	1" CRUSHED ROCK	1.0'
17-20	2 TON	5.4'	N/A	1" CRUSHED ROCK	1.0'

- ★ FOR RIPRAP GRADATION AND PLACEMENT METHOD DESCIPTIONS SEE CALTRANS STD SPECIFICATIONS SECTION 72-2
- ** SEE 1" CRUSHED ROCK GRADATION THIS SHEET

1" CRUSHED ROCK GRADATION

SIEVE SIZE	PERCENT (%) PASSING	
1-1/2" (37.5 mm)	100	
1" (25.0 mm)	90-100	
3/4" (19.0 mm)	30-60	
1/2" (12.5 mm)	0-20	
3/8" (9.5 mm)	-	
No. 4 (4.75 mm)	0-5	
No. 8 (2.36 mm)	-	
ASTM C131 Testing Grading	А	



NOT TO SCALE PREPARED UNDER THE SUPERVISION OF: PROFESSIONAL REGISTER COUNTY OF RIVERSIDE 1 LOUR RIPRAP ENERGY 11/30/22 DIRECTOR OF TRANSPORTATION DATE **DISSIPATOR SIZING** C48048 MARK LANCASTER, P.E. AND CONCRETE SILL REVISION DESCRIPTION MARK DATE APPROVED OF CALFORN **STANDARD No. 314 (4 OF 4)**