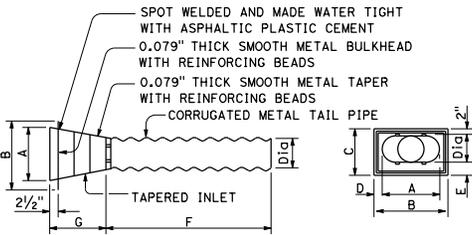


PLAN **END VIEW**
Bulkhead and taper of same thickness as tail pipe with 0.079" maximum. Tail pipe of same thickness as downdrain pipe.
ENTRANCE TAPER - TYPE 1
ALTERNATIVE A



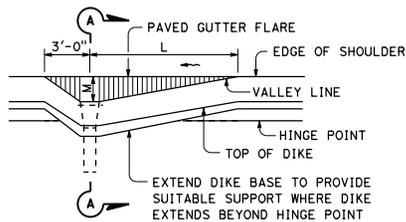
PLAN **END VIEW**
Tail pipe of same thickness as downdrain pipe.
ENTRANCE TAPER - TYPE 1
ALTERNATIVE B

CMP dimensions as tabulated below

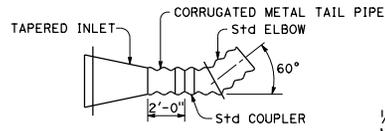
P	10"	15"	18"	21"	27"
Q	8"	12"	15"	18"	24"

Slip joint to be same thickness as downdrain pipe.

Dia	Min L	M	N
8"	10'-0"	1'-6"	8"
12"	15'-0"	1'-8"	1'-0"
15"	25'-0"	2'-0"	1'-3"
18"	30'-0"	2'-6"	1'-4"
24"	40'-0"	3'-0"	1'-6"



PLAN
MOUNTABLE DIKE TYPE 1

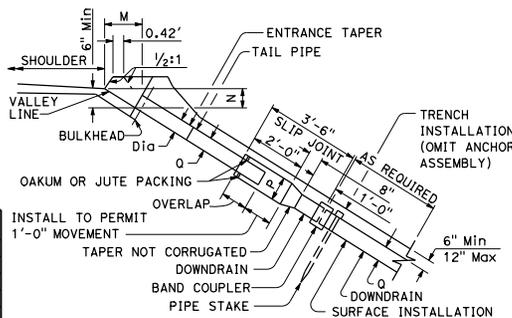


Tapered inlet of same construction and dimensions as Type 1 - Alternative A or B except tail pipe length will be 2'-0".
ENTRANCE TAPER - TYPE 2

Taper joints may be welded or riveted. Dimensions to be as tabulated below for Type 1 Alternatives A and B.

Dia	A	B	C	D	E	F	G
8"	1'-4"	2'-1 1/2"	1'-3"	4 3/4"	5"	6'-0"	2'-0"
12"	1'-6"	2'-1 1/2"	1'-7"	3 3/4"	5"	6'-0"	2'-0"
15"	1'-9"	2'-6"	1'-11"	4 1/2"	6"	6'-0"	2'-0"
18"	2'-0"	2'-10"	2'-3"	5"	7"	6'-0"	2'-0"
24"	2'-10"	3'-10"	2'-11"	6"	9"	4'-0"	4'-0"

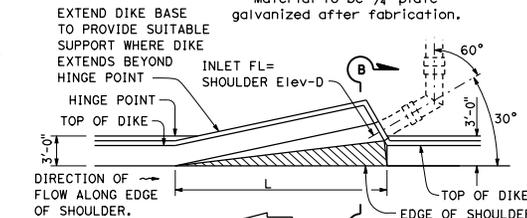
ENTRANCE TAPER - TYPE 1
ALTERNATIVE A AND B



SECTION A-A TYPE 1

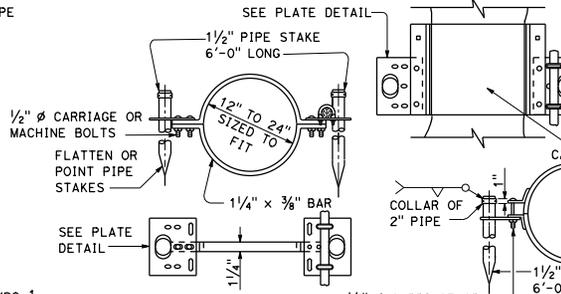
NOTES:

1. Cable, slip joint or anchor assembly to be used when specified.
2. Slip joint to be omitted when completely buried.
3. Slip joint for Type 1 entrance taper shown. Type 2 similar.



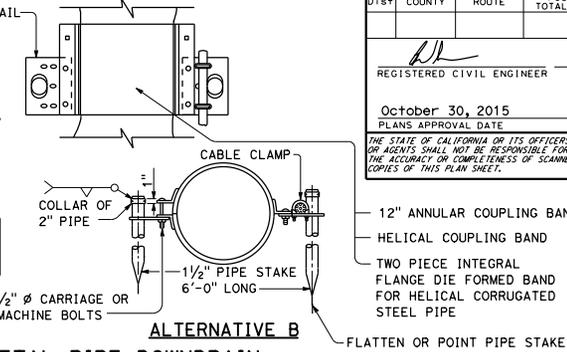
PLAN
MOUNTABLE DIKE TYPE 2
(For use on full freeway sections ONLY with grades of 2% or greater)

ENTRANCE TAPER AND PIPE DOWNDRAIN



ALTERNATIVE A
CORRUGATED METAL PIPE DOWNDRAIN ANCHOR ASSEMBLY

Cable and cable clamps to be used when required by the Special Provisions.



ALTERNATIVE B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER
Bruce D. Swanger
No. C61257
Exp. 6-30-17
CIVIL
STATE OF CALIFORNIA

October 30, 2015
PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

- 12" ANNULAR COUPLING BAND
- HELICAL COUPLING BAND
- TWO PIECE INTEGRAL FLANGE DIE FORMED BAND FOR HELICAL CORRUGATED STEEL PIPE

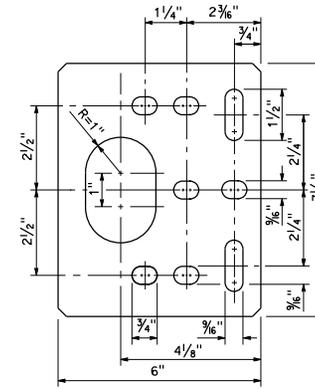
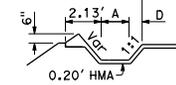


PLATE DETAIL

Material to be 1/4" plate galvanized after fabrication.

Dia D	Min L
8"	15'
12"	20'
15"	30'
18"	35'
24"	45'



SECTION B-B

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CORRUGATED METAL PIPE DOWNDRAIN DETAILS

NO SCALE