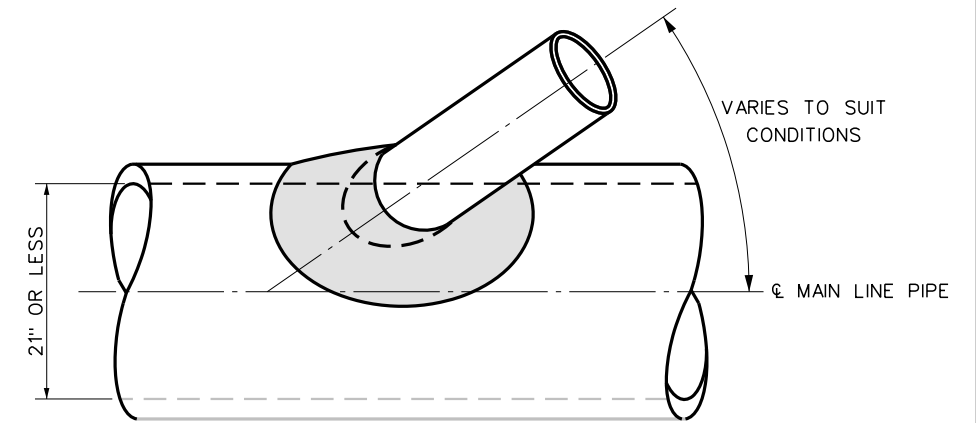
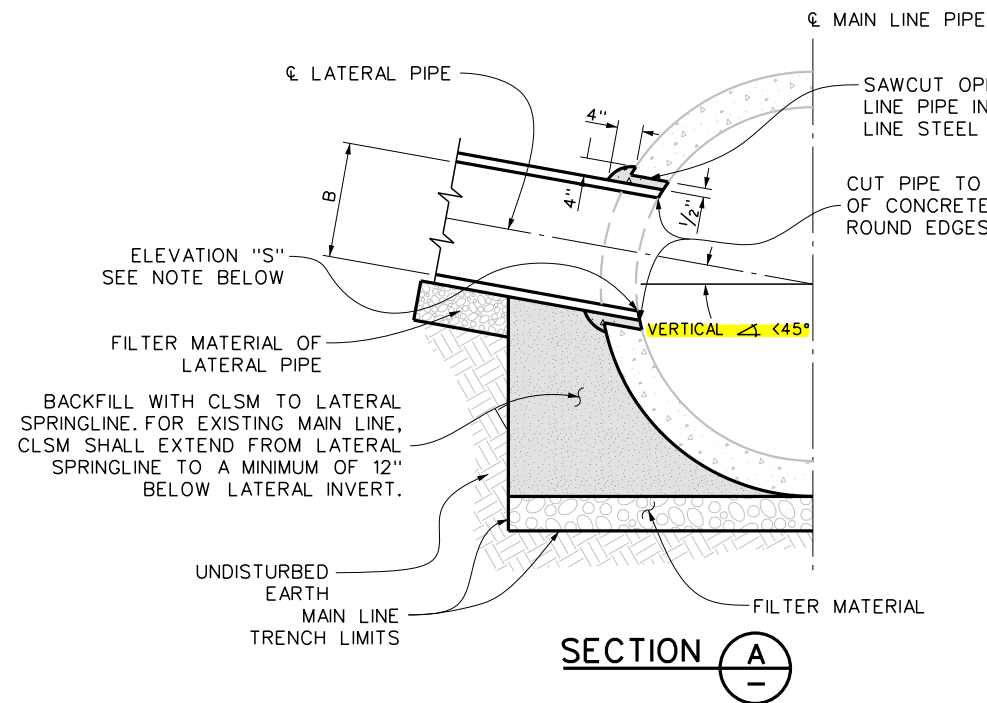


PLAN
PIPE WALL COLUMN SUPPORT



CASE 3
SADDLE CONNECTION PLAN
(MAIN LINE PIPE 21" DIAMETER OR LESS)

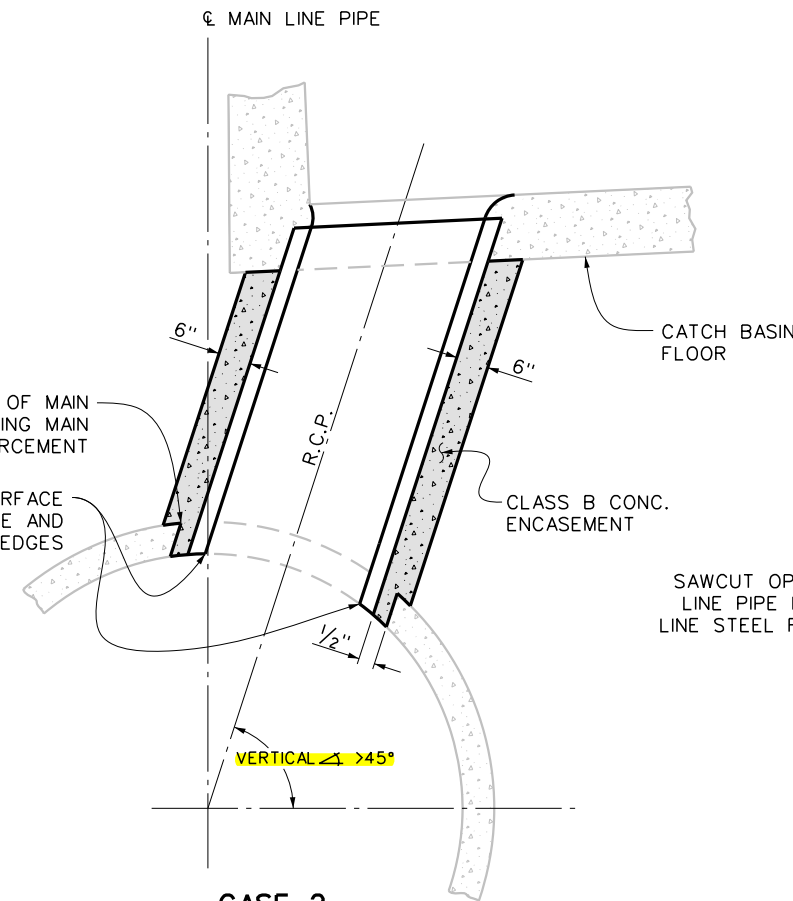


SECTION A

CASE 1
(VERTICAL <math>\angle < 45^\circ</math> OR LESS)

NOTES: CASES 1 & 2

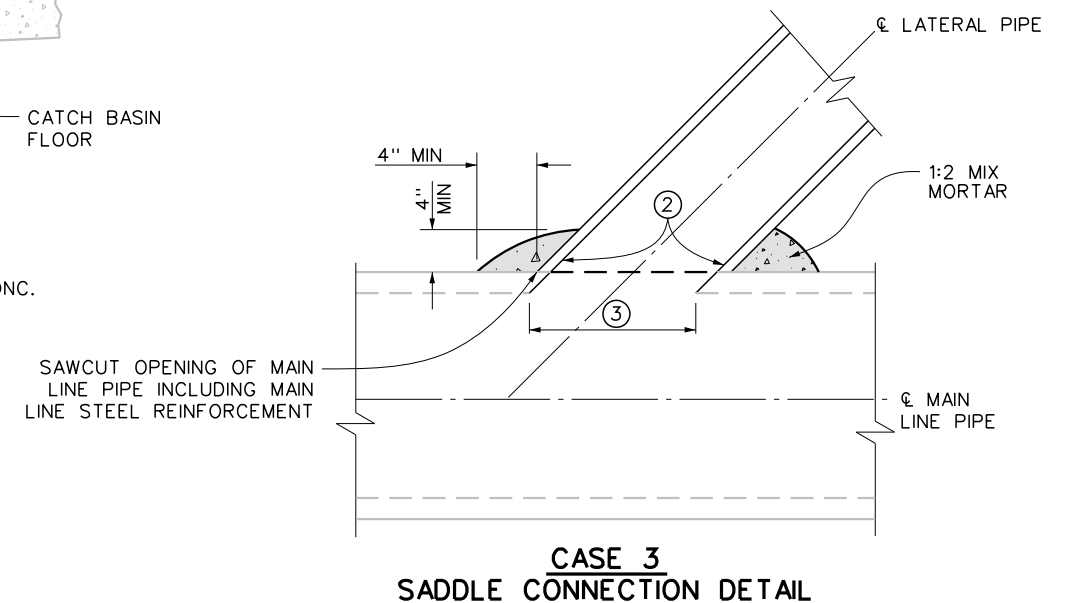
1. B SHALL BE 24" OR LESS, AND IN NO CASE SHALL THE OUTSIDE DIAMETER OF THE INLET PIPE EXCEED ONE-HALF THE INSIDE DIAMETER OF THE MAIN LINE. IF VERTICAL \angle IS 45° OR LESS, USE CASE 1. IF VERTICAL \angle IS GREATER THAN 45°, USE CASE 2.
2. ϕ OF INLET SHALL BE RADIAL TO THE MAIN STORM DRAIN EXCEPT WHEN ELEVATION "S" IS SHOWN ON PROJECT DRAWING PROFILE.
3. THE MINIMUM OPENING INTO THE EXISTING STORM DRAIN SHALL BE THE OUTSIDE DIAMETER OF THE CONNECTING PIPE PLUS 1 INCH.
4. STATION POINT AS SHOWN ON PROJECT DRAWING PLAN VIEW.
5. NO MORE THAN ONE OPENING SHALL BE MADE IN ANY ONE SECTION OF PIPE, AND SHALL NOT BE MADE WITHIN 12" OF A MAIN LINE JOINT.



CASE 2
CATCH BASIN ABOVE STORM DRAIN
(VERTICAL $\angle > 45^\circ$)

NOTE: CASE 2

1. ALL CONNECTOR PIPES (WITHIN THE VERTICAL ANGLES SPECIFIED FOR CASE 2) SHALL BE ENCASED WHEN LAID WITHIN THE MAIN LINE EXCAVATED TRENCH, OR WHEN LAID ON FILL WHICH HAS NOT BEEN DENSIFIED.

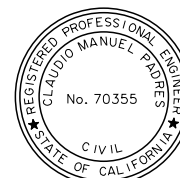


CASE 3
SADDLE CONNECTION DETAIL

NOTES: CASE 3

1. CONNECTIONS TO MAIN LINE PIPES 21" OR LESS IN DIAMETER WITHOUT JUNCTION STRUCTURES OR PRECAST Y BRANCHES SHALL BE MADE WITH SADDLES.
2. TRIM OR CUT LATERAL PIPE TO CREATE SADDLE CONNECTION THAT FITS SNUGLY OVER THE OUTSIDE OF THE MAIN LINE PIPE. SADDLE ALIGNMENT SHALL MATCH LATERAL ALIGNMENT LINE.
3. THE OPENING INTO THE MAIN LINE PIPE SHALL BE CUT AND TRIMMED TO MATCH THE INSIDE DIMENSIONS OF THE LATERAL PIPE.

L.A.C.F.C.D. STD. NO. 2-D193 (MODIFIED)



RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	
APPROVED BY: <i>Jason E. Uhley</i> GENERAL MANAGER / CHIEF ENGINEER DATE: 7-2-2019	APPROVED BY: <i>Claudio Manuel Padua</i> CHIEF DESIGN & CONSTRUCTION DATE: 7-2-2019
No. 59795 CIVIL STATE OF CALIFORNIA	No. 70355 CIVIL STATE OF CALIFORNIA
R.C.E. NO. 59795	R.C.E. NO. 70355

JUNCTION STRUCTURE
NO. 4

STANDARD DRAWING NUMBER JS229
SHEET 1 OF 1