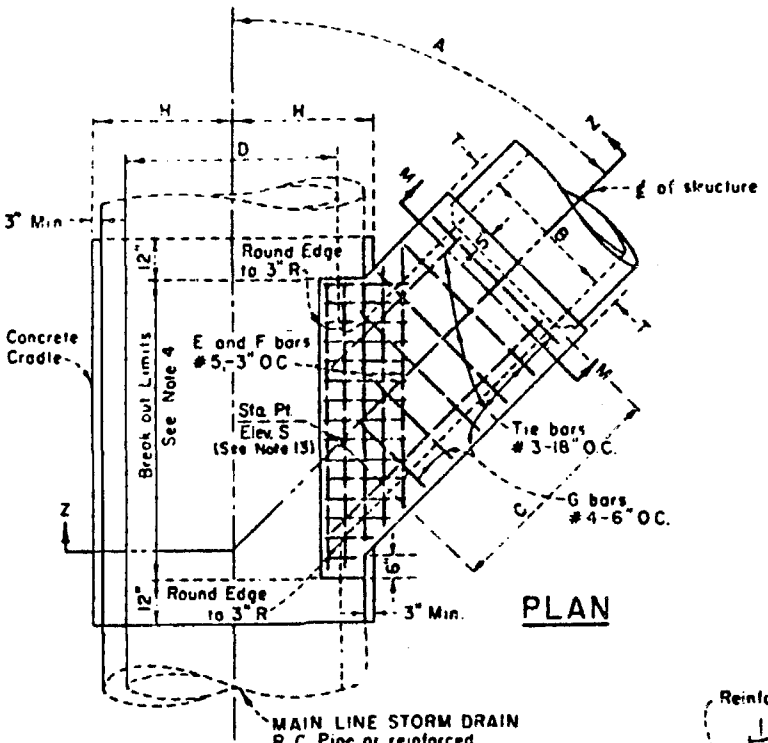
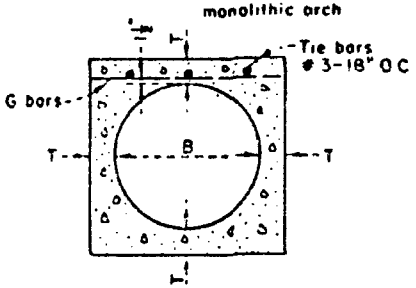
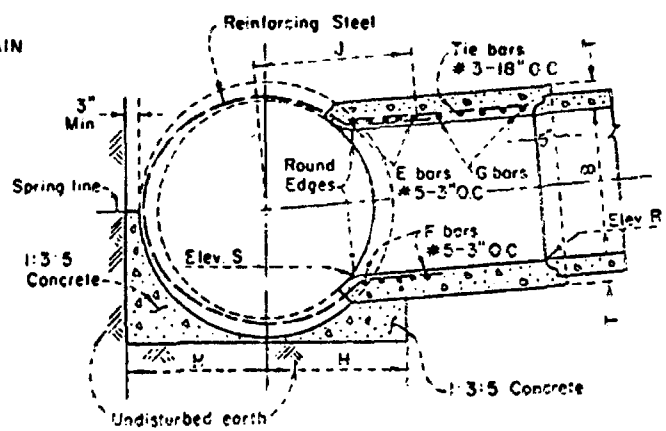


PLAN

TABLE OF VALUES FOR T	
B	T
12"	5"
15"	5"
18"	5"
21"	5"
24"	5½"
27"	5½"
30"	6"
33"	6½"
36"	6½"
39"	7"



SECTION M-M



SECTION Z-Z

NOTES:

1. Junction Structure No 2 is to be used when O D of B is greater than ½ the I D of D, or B is greater than 24 inches. B shall not exceed ¾ D, or 39 inches.
   NOTE: No more than one opening shall be made in one section of pipe.
2. Values of A,B,C and D are shown on project drawings. Elevation "R" and Elevation "S" are shown when required per Note 12
3. Elevation S applies at inside wall of structure.
4. Breakout limits shall be determined as follows:
   Upstream Limit - At the intersection of the outside of the spur wall with the main line pipe wall
   Downstream Limit - 6 inches downstream of the intersection of the spur wall with the main line pipe wall.
   The opening shall be rectangular, cut normal to pipe surface and without damaging reinforcing steel. If a joint in the main line pipe falls within the limits of the concrete cradle, provide a concrete encasement one foot above the top of the main line pipe to the limits of the cradle.
5. The transverse reinforcement in pipe shall be cut at center of opening and bent into top and bottom slabs of spur
6. The main line pipe shall be cradled and encased in 1:3:5 mix concrete, extending longitudinally 12 inches beyond the limits of breakout (See Note 4); and transversely a distance of H on each side of the centerline of pipe. H = ½ O.D. of pipe + 3 inches minimum.
   Cradle may be omitted on side opposite lateral inlet when constructed in connection with existing storm drain.
7. Reinforcing steel shall be placed 1½ inches clear from face of concrete, unless otherwise shown.
8. E and F bars shall be carried to a point not less than J distance from centerline. J = 7/12 D + 6 inches.
9. Concrete strength shall be 3,000 psi at 28 days except as otherwise noted
10. Floor of structure shall be steel-troweled to spring line.
11. When Junction Structure No 2 is specified with reinforced monolithic arch storm drain, value D shall refer to the clear span of the arch
    Reinforcing steel shall be cut and bent into Junction Structure in the same manner as for pipe. Concrete cradle under reinforced monolithic arch is not required.
12. When Elevation "R" and Elevation "S" are not shown on project drawings, inlet pipe shall enter main line radially. When inlet pipe enters main line other than radially, Elevation "S" shall be shown on project drawings, and inlet pipe shall be laid on a straight grade from Elevation "S" to catch basin or grade break in line. Elevation "R" shall be shown on project drawings only when stub is to be provided in main line for future construction of inlet pipe
13. Stations specified on drawings apply at the intersection of center lines of main line and laterals, except that stations for catch basin connector pipe apply at inside wall of structure.

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No.	Revision		Date

CITY OF SAN BERNARDINO - PUBLIC WORKS DEPT.

JUNCTION STRUCTURE NO. 2

APPROVED _____ 1975

CITY ENGINEER

STANDARD No. 413