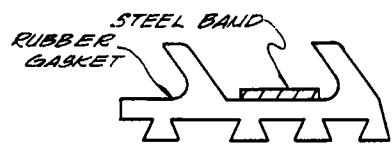


3/8" THICKNESS CEMENT MORTAR JOINT NEATLY STRUCK & POINTED; OR PREFORMED COLD-APPLIED READY TO USE PLASTIC JOINT SEALING COMPOUND & PRIMER.

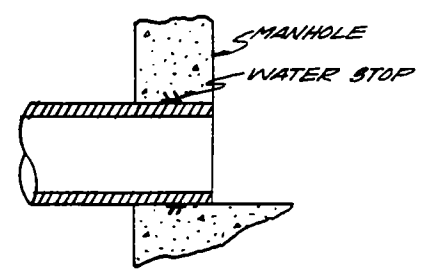
**JOINT DETAIL**

**NOTES:**

- 1) Precast reinforced concrete manholes shall conform to the applicable requirements of A.S.T.M. and: A) shall be designed for A.A. S.H.O. H-20 loading. B) concrete shall be compactly vibrated, centrifugally spun or mechanically tamped. C) one piece cone-and-shaft will not be accepted.
- 2) For subdivision work, manholes frames & covers to be constructed 6" below official street grades by sewer contractor. Paving contractor to adjust frames & covers to official grade after paving.
- 3) Manholes shall be coated inside (including manhole flow channels & grade rings) with Hunts Process Black No. 120 prior to installation.
- 4) Manhole water stops shall be installed with P.V.C., A.B.S. or A.C.P. pipes.
- 5) When a manhole is modified a 1/2" cement mortar trowled smooth finish is to be placed in new channel



**MANHOLE WATER STOP**



**WATER STOP PLACEMENT**

REV. 2	Added note #5 of concrete pouring note	18	28 MARCH '84
REV. 1	Added dimension of cement mortar	18	28 MARCH '84

CITY OF SAN BERNARDINO PUBLIC WORKS DEPT.  
**PRECAST REINFORCED CONC.**  
**STD. 48" I.D. MANHOLE**

APPROVED:  
5-16, 1983  
  
 DIR. OF PUBLIC WORKS/CITY ENGINEER

STANDARD NO.  
**301**