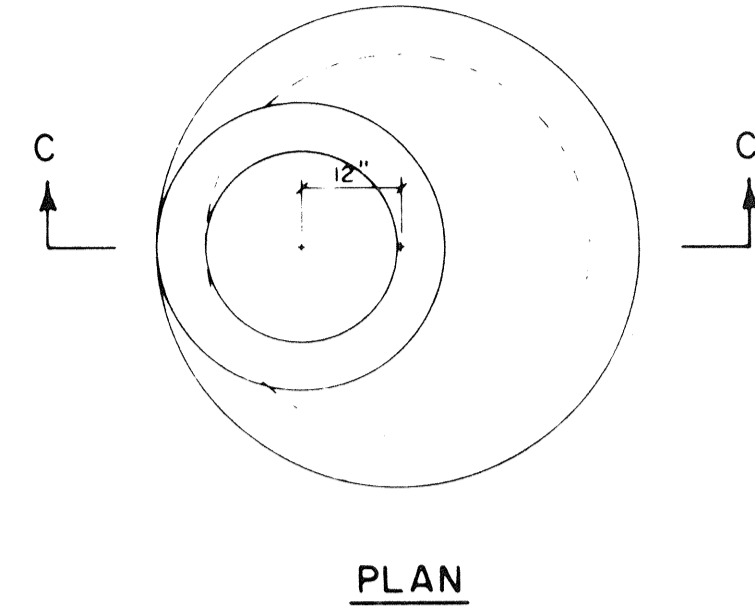
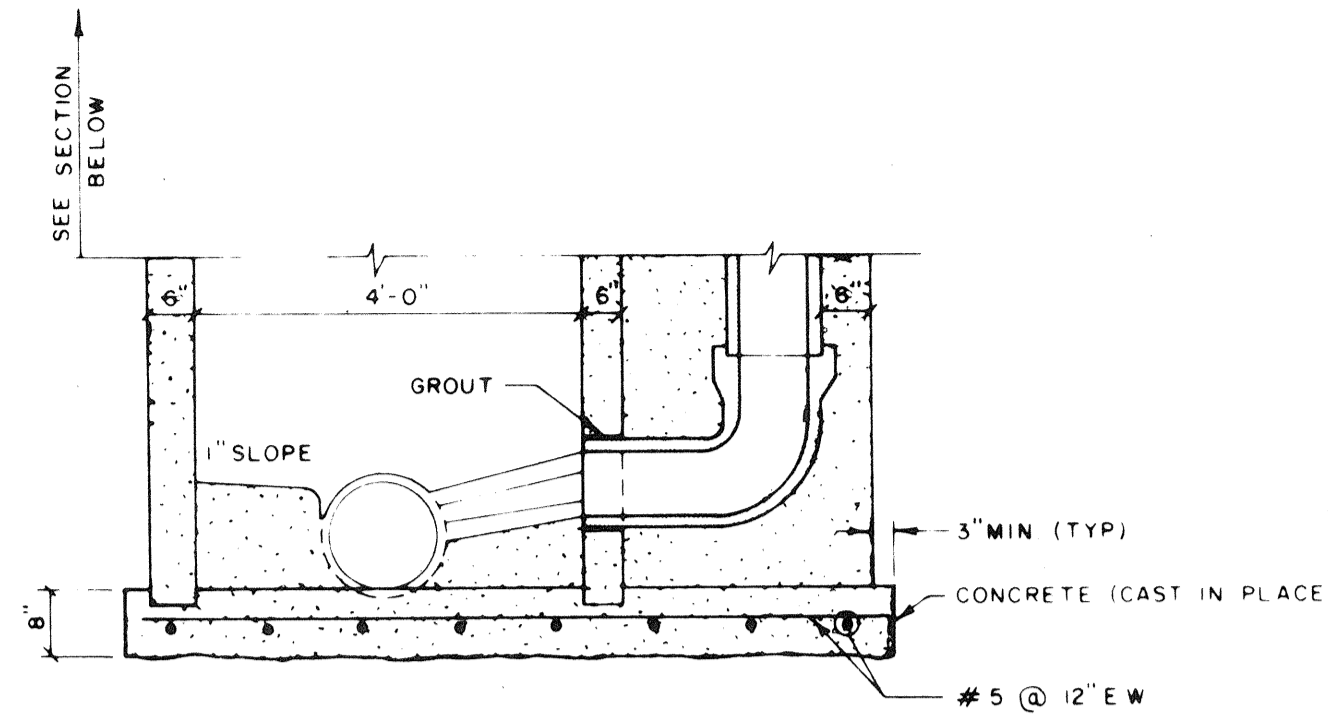


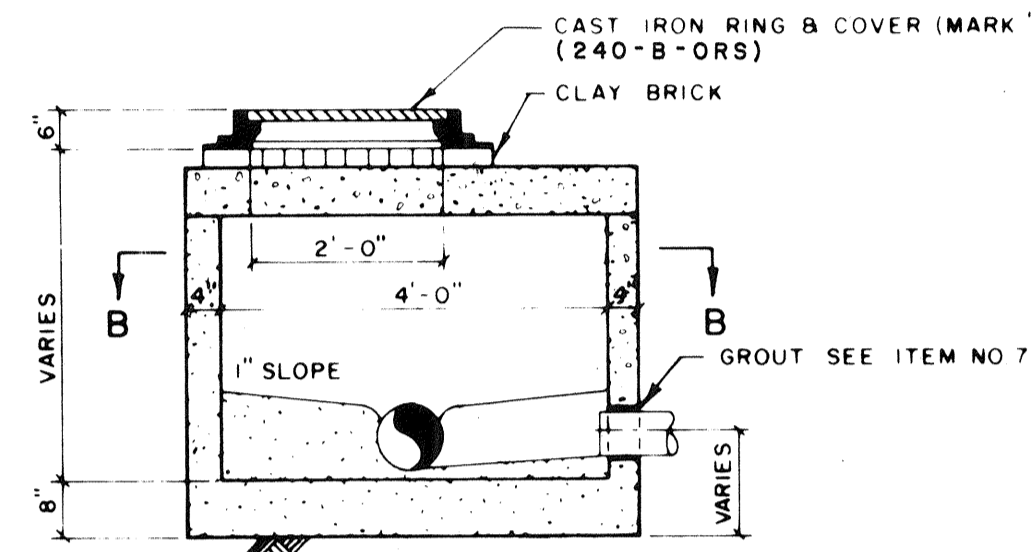
PLAN



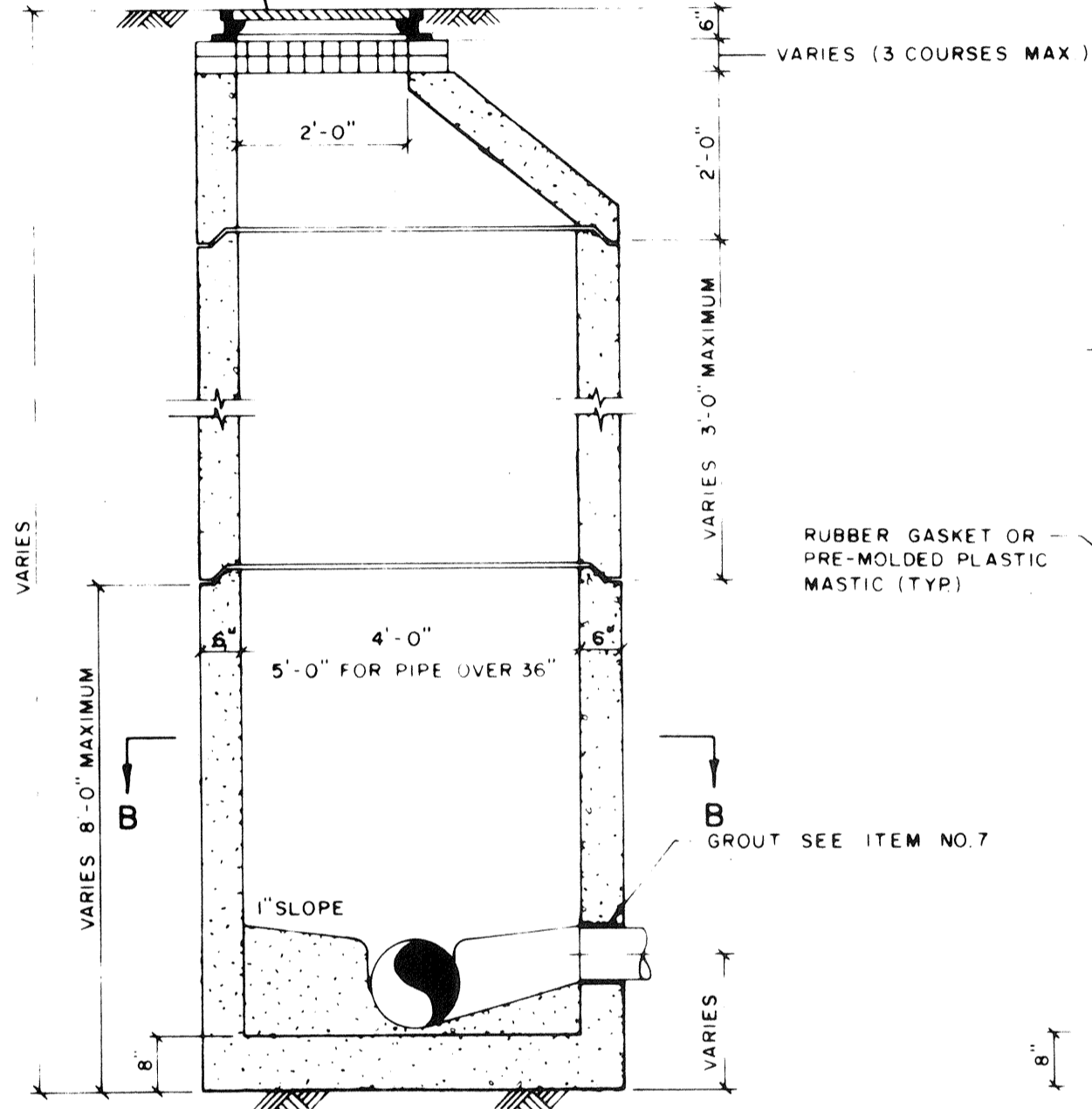
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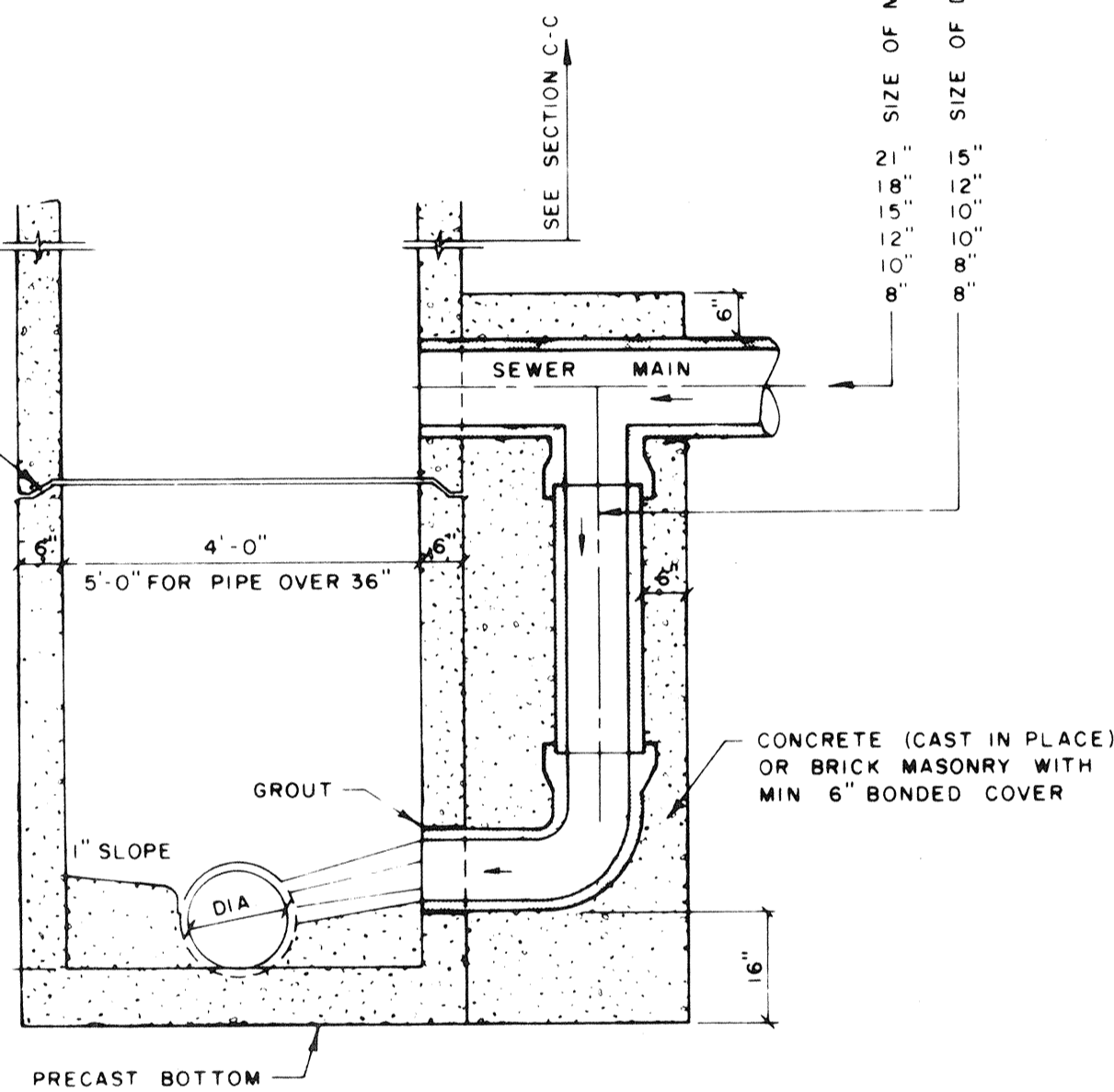
ALTERNATE SECTION



SECTION A-A



SECTION C-C



SECTION

FOR DEPTHS 5'-0" & LESS
SCALE: 1/2" = 1'-0"

FOR DEPTHS OVER 5'-0"
SCALE: 1/2" = 1'-0"

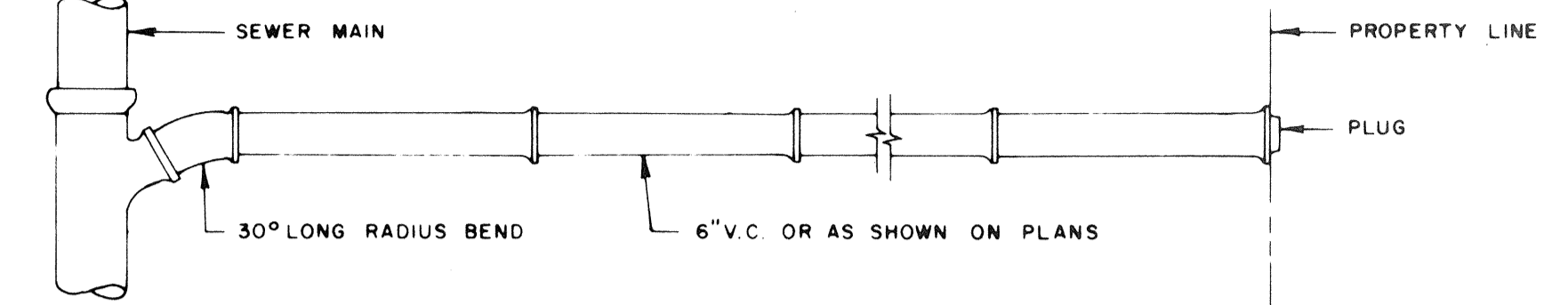
DROP MANHOLE
SCALE: 1/2" = 1'-0"

MANHOLE SPECIFICATIONS:

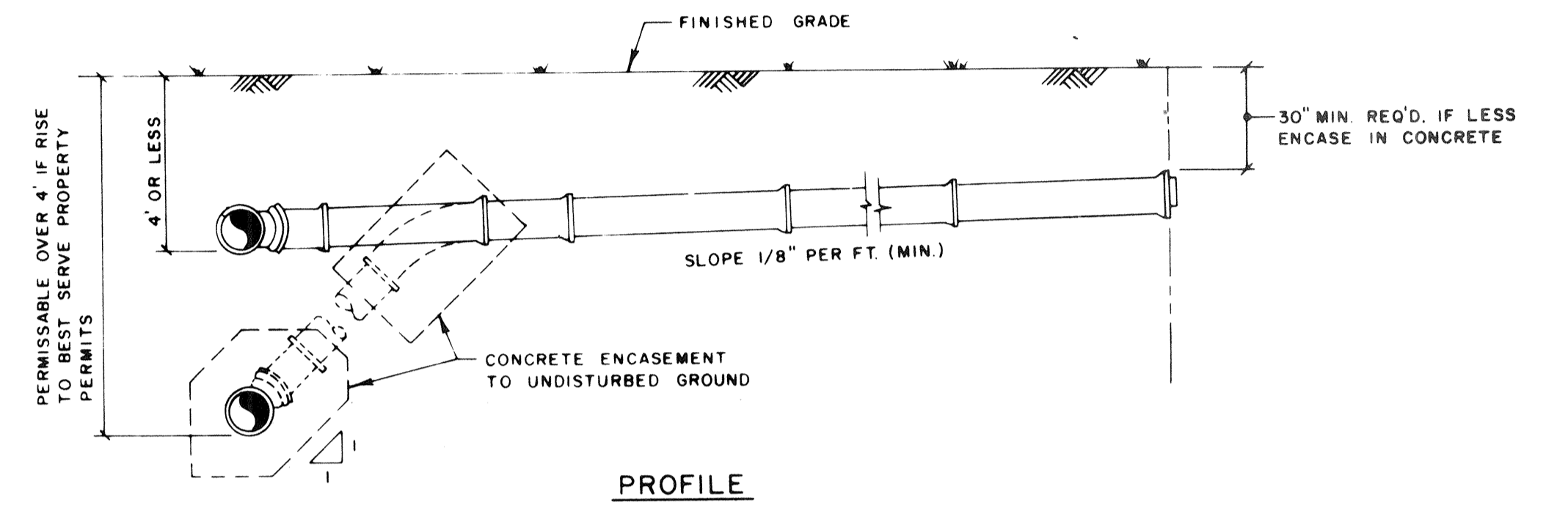
1. MANHOLES SHALL COMPLY WITH A.S.T.M. SPECS C-478, LATEST REVISION, "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."
2. CONCRETE SHALL BE 4,000 P.S.I./28 DAY MINIMUM STRENGTH, WITH TYPE X CEMENT.
3. HEAVY DUTY MANHOLE RING (6" HIGH) AND COVER SHALL BE TYPE B (DWG. NO. 240; O.I.D. NO. 24) WITH FRAME & DOVETAIL GROVED COVER (335 LB.) TO ACCOMMODATE 1/4" DIAMETER O-RING AS MANUFACTURED BY U.S. FOUNDRY CORP., MIAMI, FLORIDA, OR APPROVED EQUAL, WITH THE WORDS "WASTE WATER" CAST INTO THE COVER.
4. REINFORCING PER A.S.T.M. SPEC. C-478, LATEST REV.
5. LEVELING BRICKS TO BE CLAY; MORTAR TO BE 2 PARTS CLEAN SAND AND 1 PART CEMENT WITH NO MORE THAN 1/4 PART HYDRATED LIME, WITH JOINTS FULL & STRUCK FLUSH.
6. NO STEPS SHALL BE USED.
7. COMPLETELY FILL SPACE BETWEEN PIPES AND MANHOLE WALL WITH CEMENT MORTAR AFTER PIPE IS SET WITH 15 LB. EMBECO PER 100 LB. CEMENT.

GENERAL NOTES:

1. WHERE WATER & WASTEWATER MAINS CROSS WITH LESS THAN 18" VERTICAL CLEARANCE, THE WASTEWATER PIPE SHALL BE OF EITHER DUCTILE IRON OR CONCRETE ENCASED VITRIFIED CLAY, (20' MIN.) CENTERED ON THE POINT OF CROSSING.
2. PARALLEL WATER & WASTEWATER MAINS SHALL MAINTAIN A HORIZONTAL SEPARATION OF AT LEAST 10'
3. WHERE STORMWATER SEWERS CROSS OVER WASTEWATER SEWERS WITH LESS THAN 12" VERTICAL CLEARANCE, THE WASTEWATER PIPE SHALL BE OF EITHER DUCTILE IRON OR CONCRETE ENCASED VITRIFIED CLAY, 10' MINIMUM EITHER SIDE OF CROSSING.

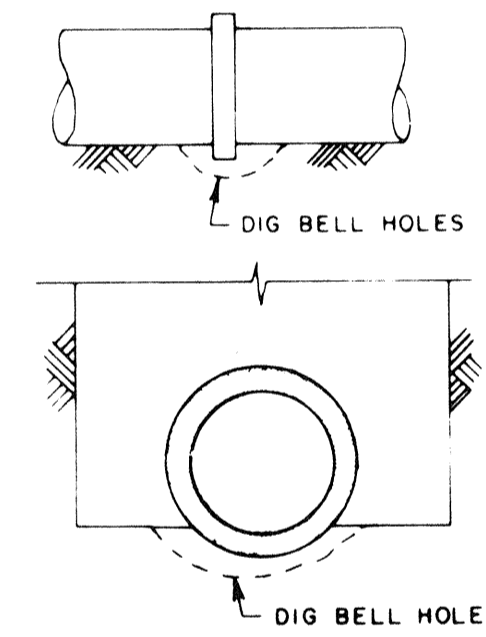


PLAN

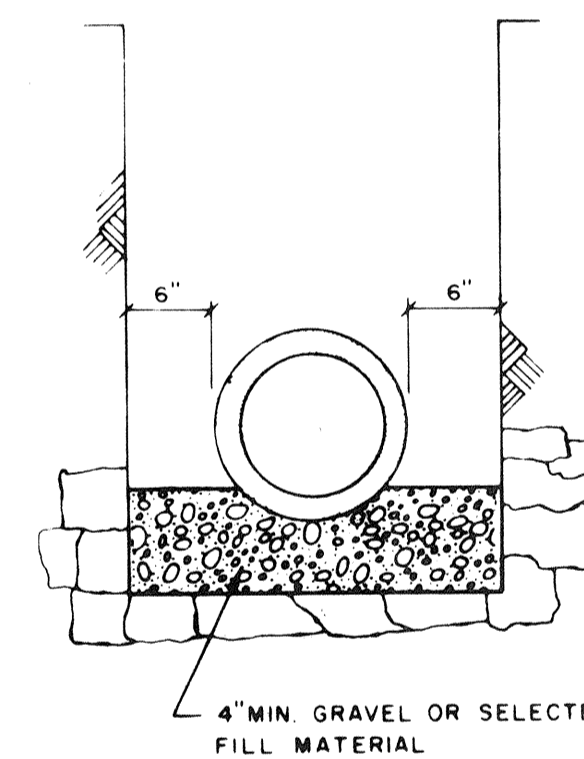


PROFILE

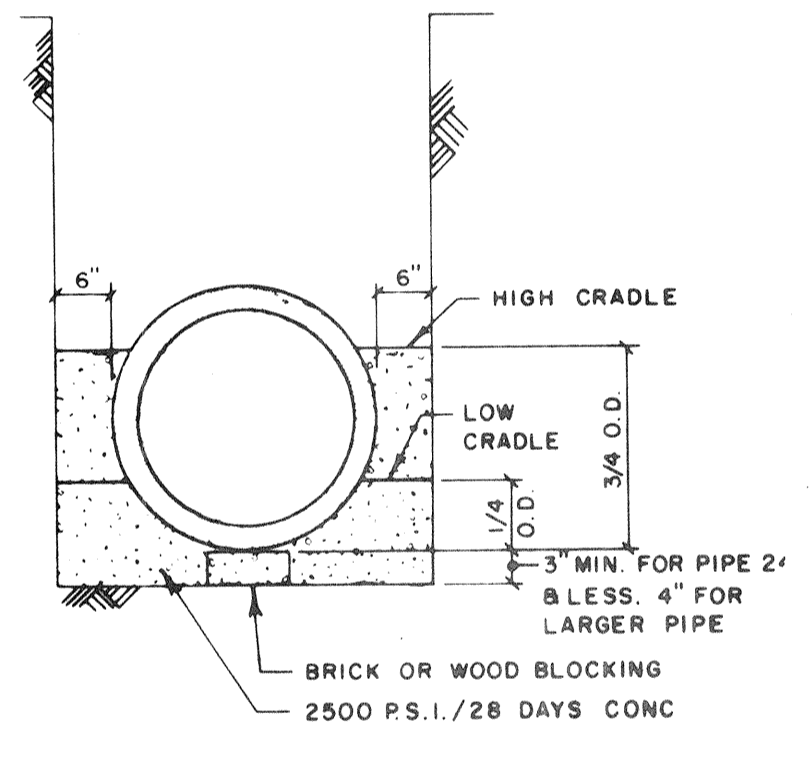
TYPICAL SERVICE CONNECTION
NO SCALE



TRENCH IN EARTH

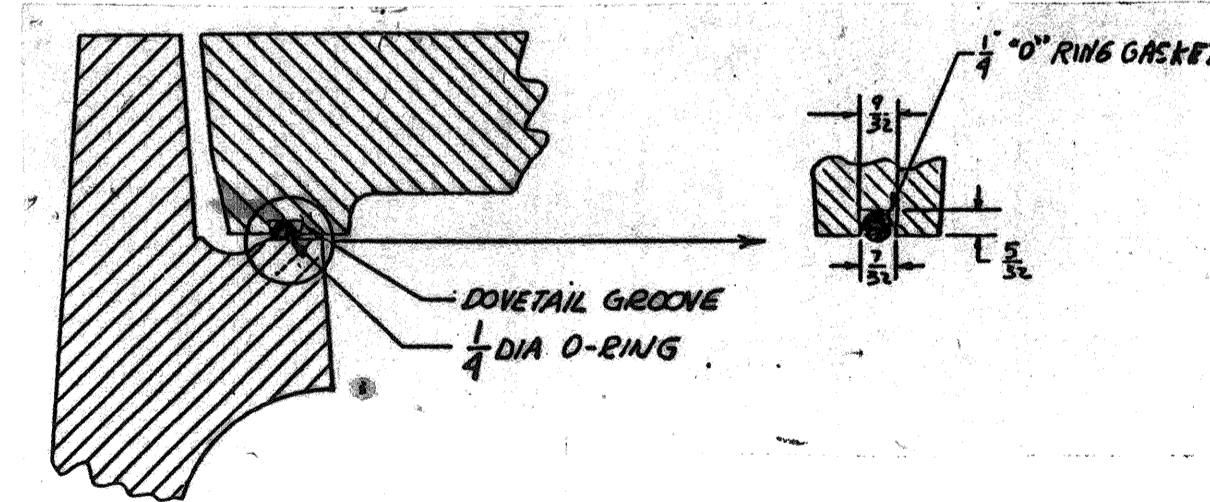


TRENCH IN ROCK

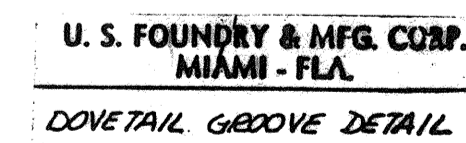


CONCRETE CRADLES

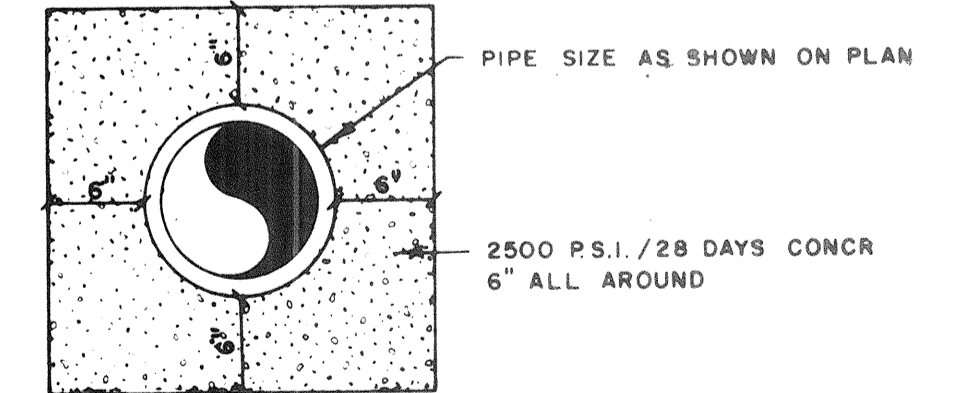
TYPICAL EXCAVATION & PIPE SETTINGS
NO SCALE



TYPICAL MANHOLE RING AND COVER SECTION



U. S. FOUNDRY & MFG. CORP.
MIAMI - FLA.
DOVETAIL GROOVE DETAIL



CONCRETE ENCASEMENT
NO SCALE

WILLIAM F. BISHOP & ASSOCIATES, INC.
CONSULTING ENGINEERS - SURVEYORS
SARASOTA, FLORIDA

APPROVED BY
William F. Bishop

DATE	SCALE	AS SHOWN	DESIGN	DRAWN	CHECK	APPROVED	DATE	DESCRIPTION
12-20-86	F.V.	F.V.	F.V.	F.V.	F.V.	F.V.	10-9-86	REVISED
12-20-86	F.V.	F.V.	F.V.	F.V.	F.V.	F.V.	10-9-86	REVISED

MASTHEAD CORP.
G.P.D. COMMERCIAL

SANITARY SEWER DETAILS