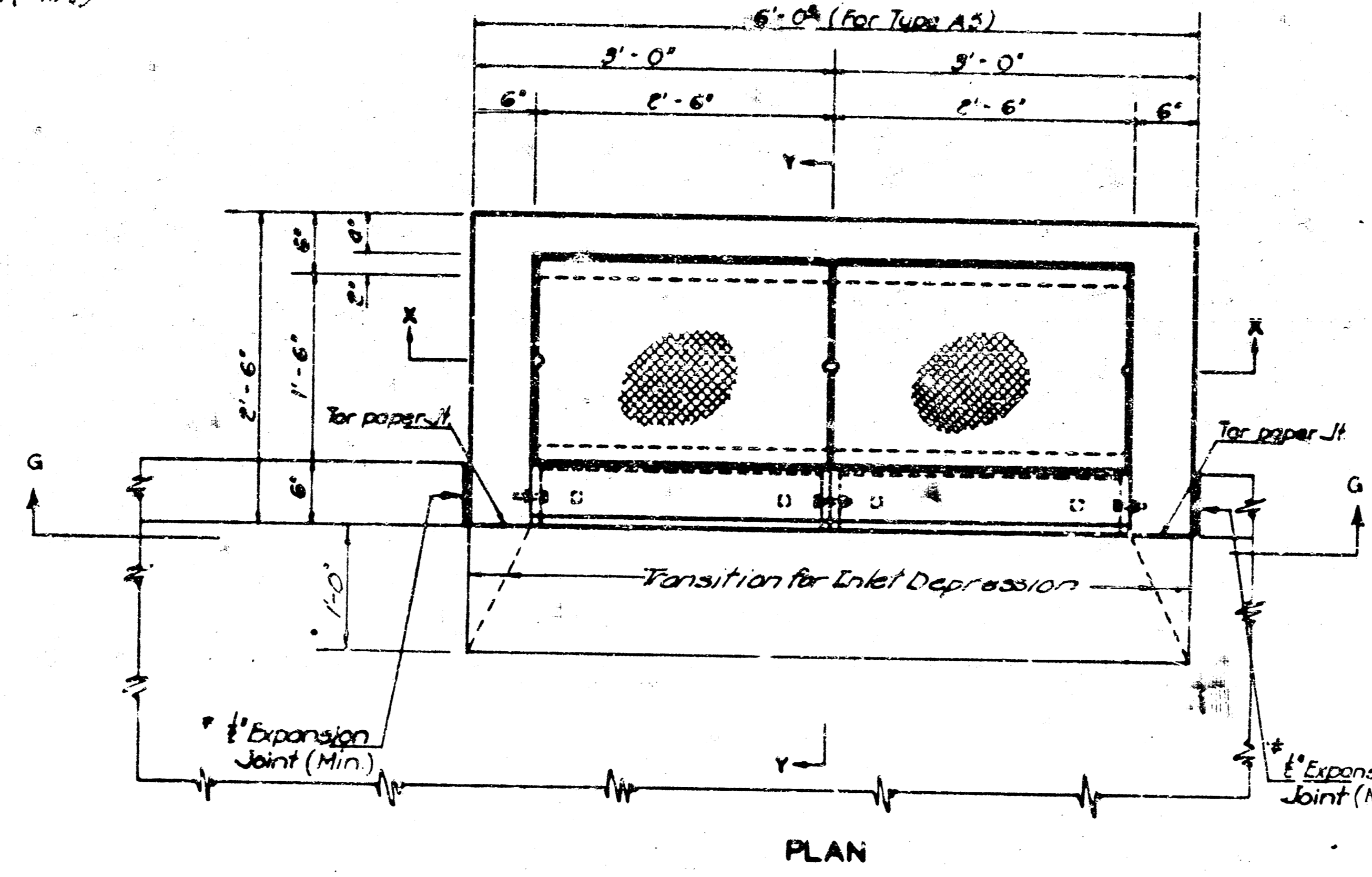
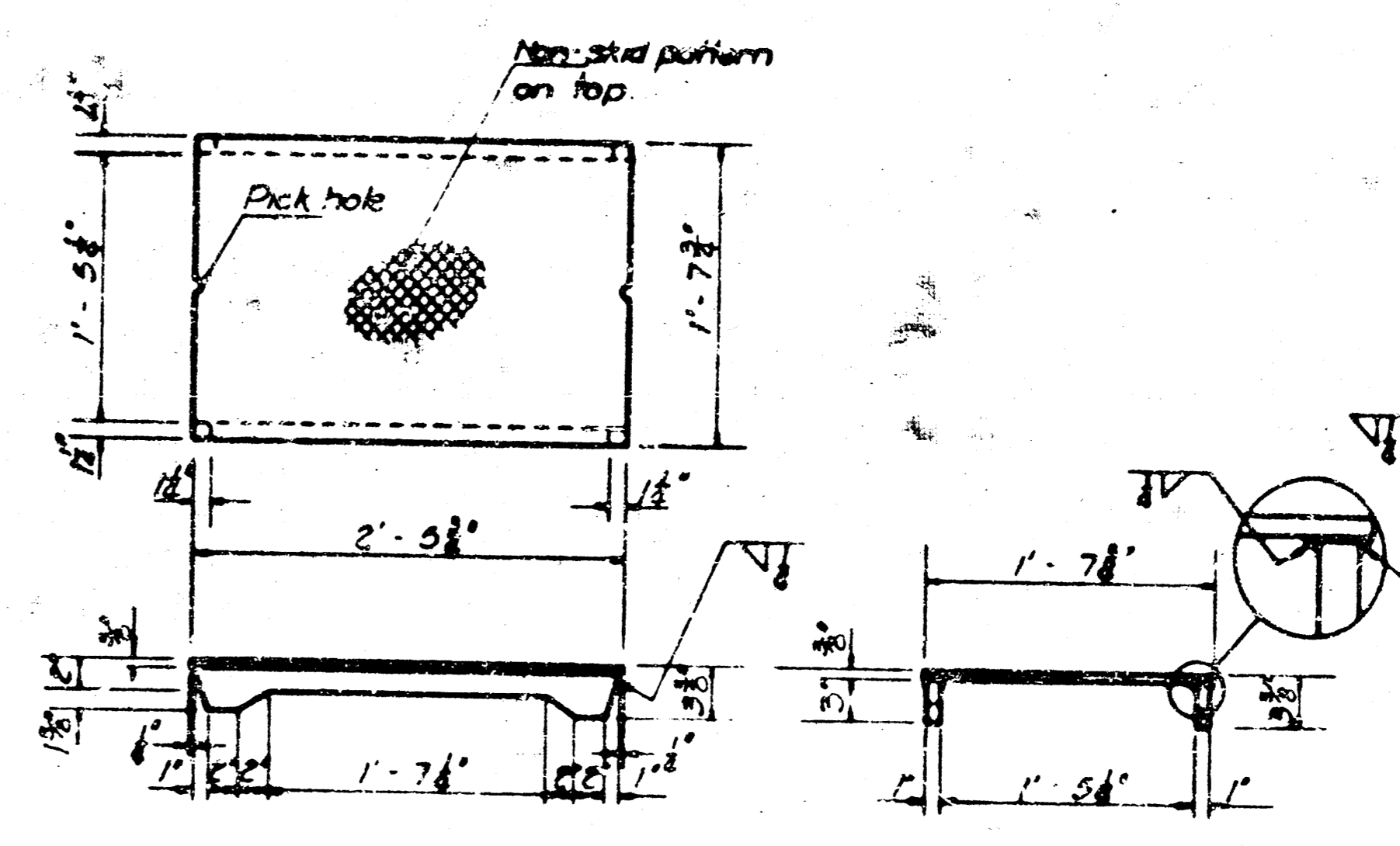


SECTION G-G

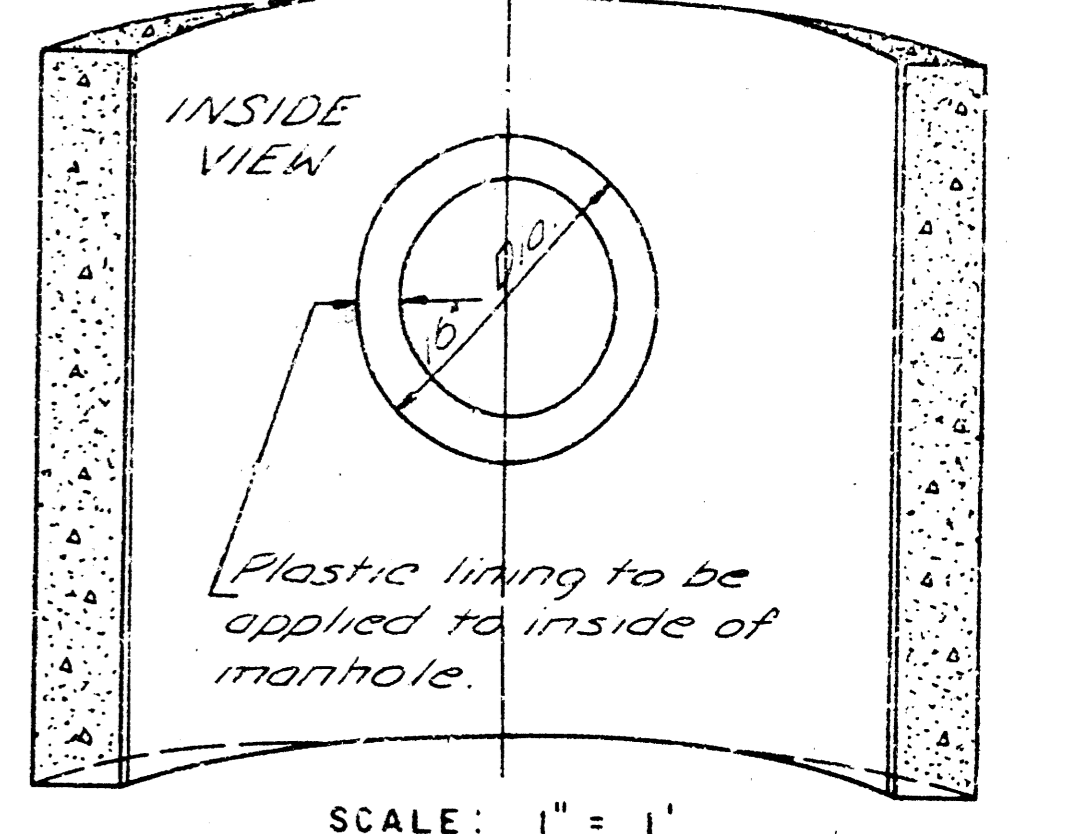
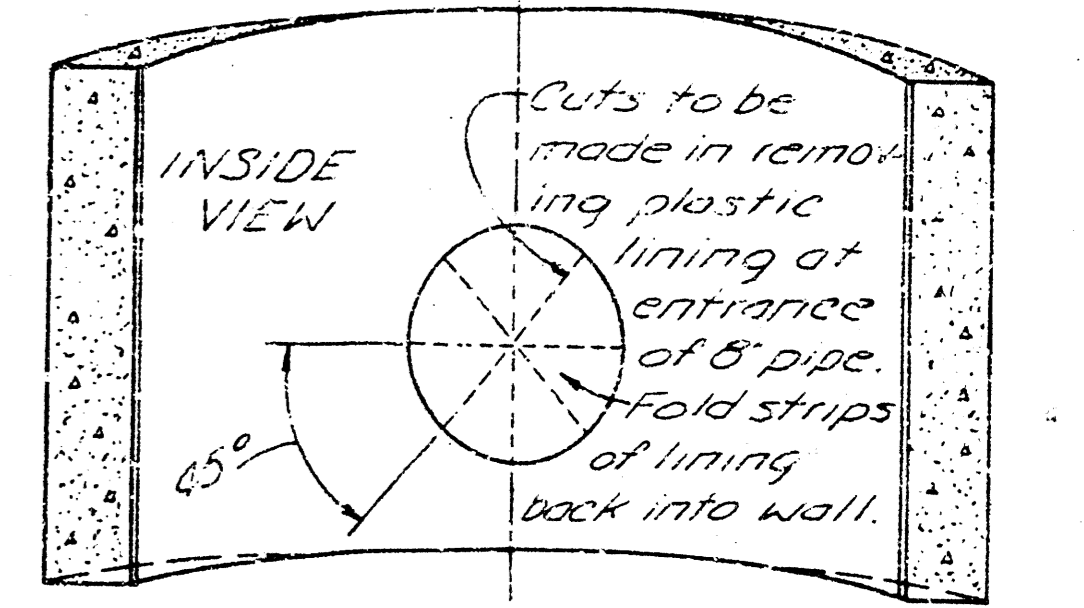
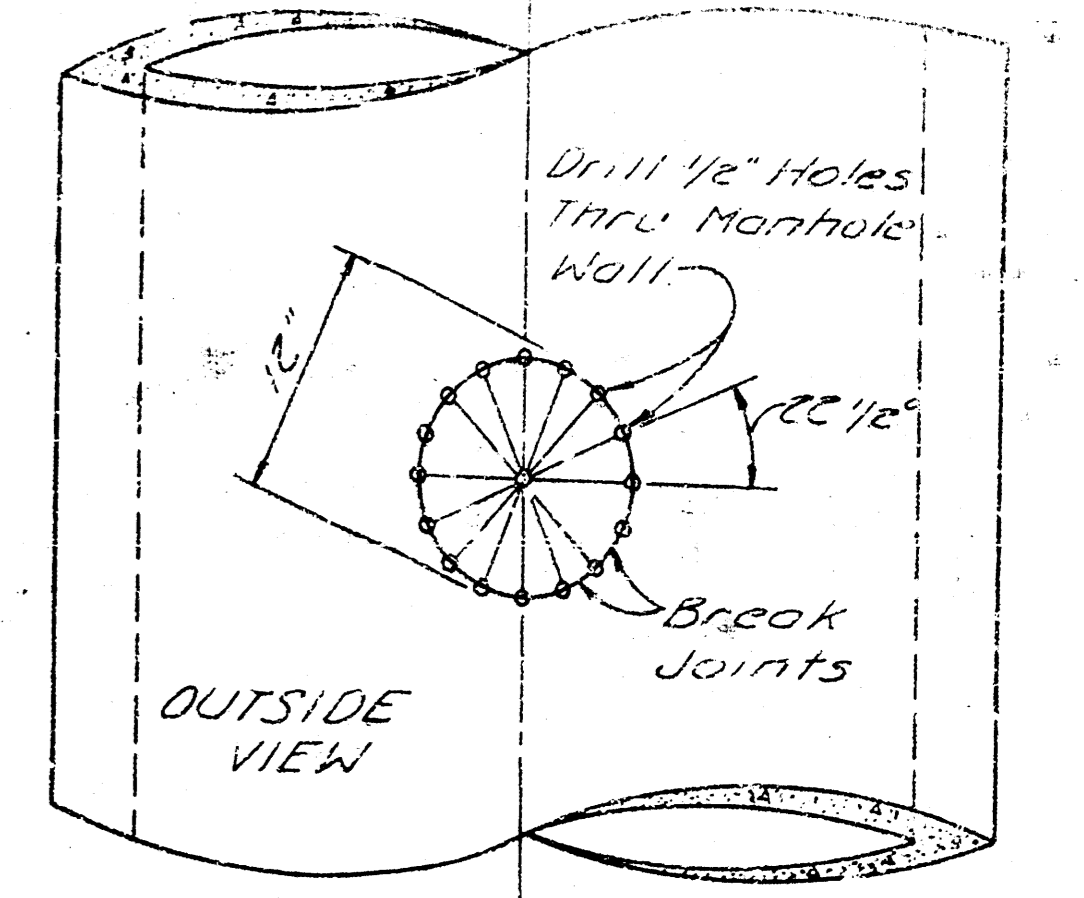


PLAN

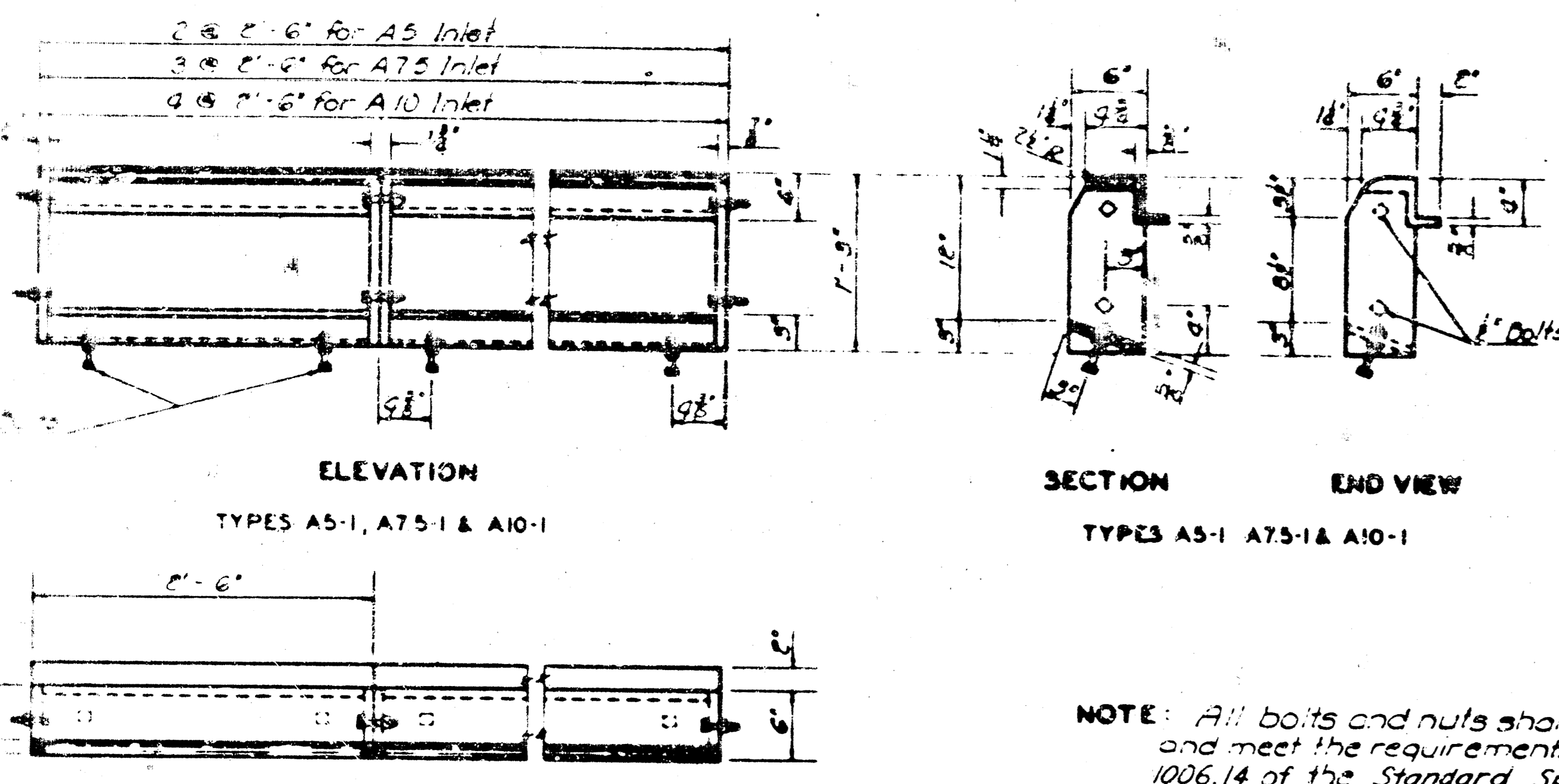


* STRUCTURAL STEEL COVER PLATE

Weight 98 Lbs Each
 ** At the contractor's option, the supports on the cover plate may be made of 2" stock with the "feet" portions welded to the 2" steel bars. The weld shall be 1/4" full length, each side and ground smooth on the out side.
 * Nonskid steel floor plate (Commercial grade), welded to steel (ASTM A7, A36, A242 or A441) bars.

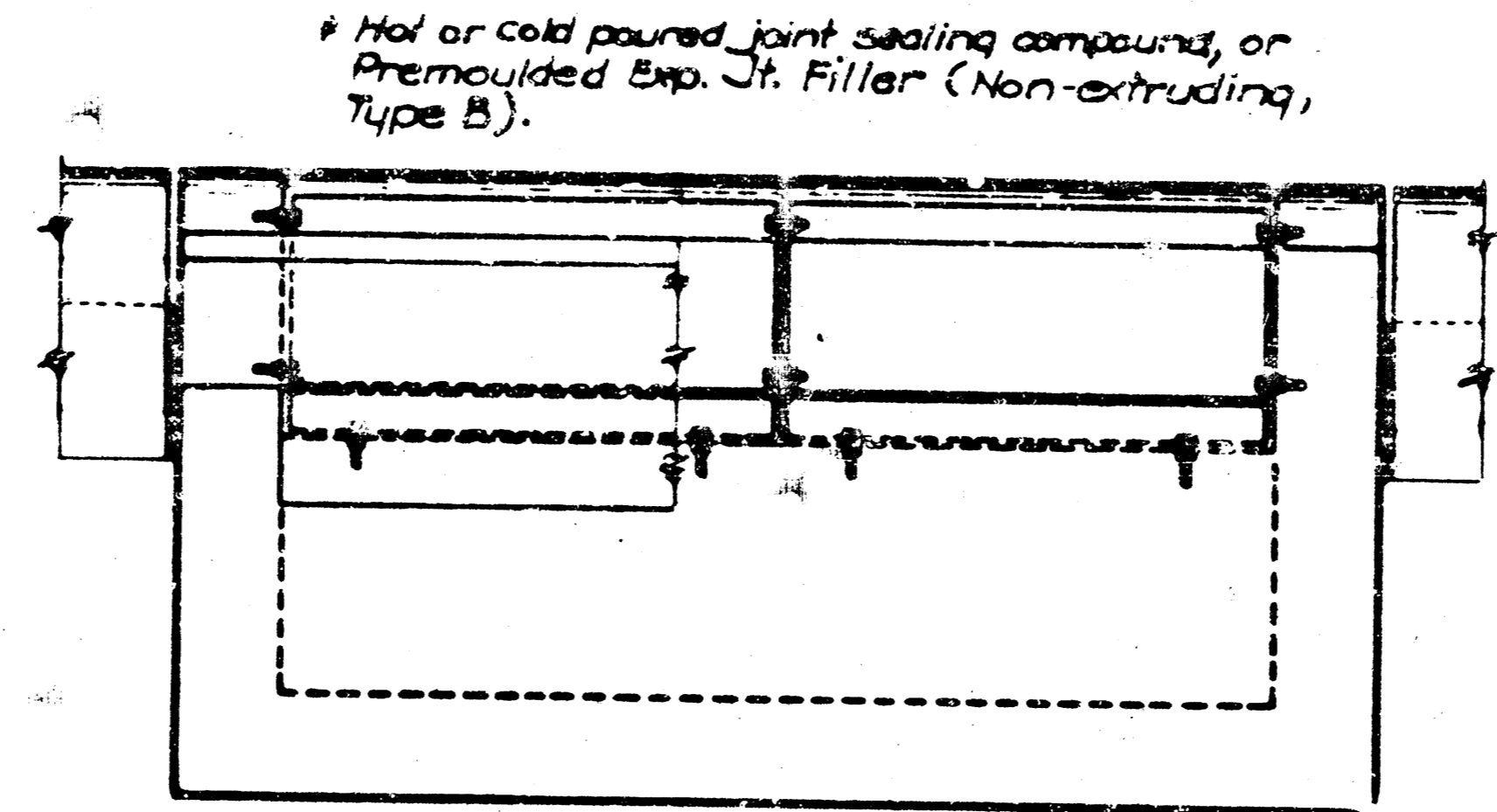


SCALE: 1" = 1'

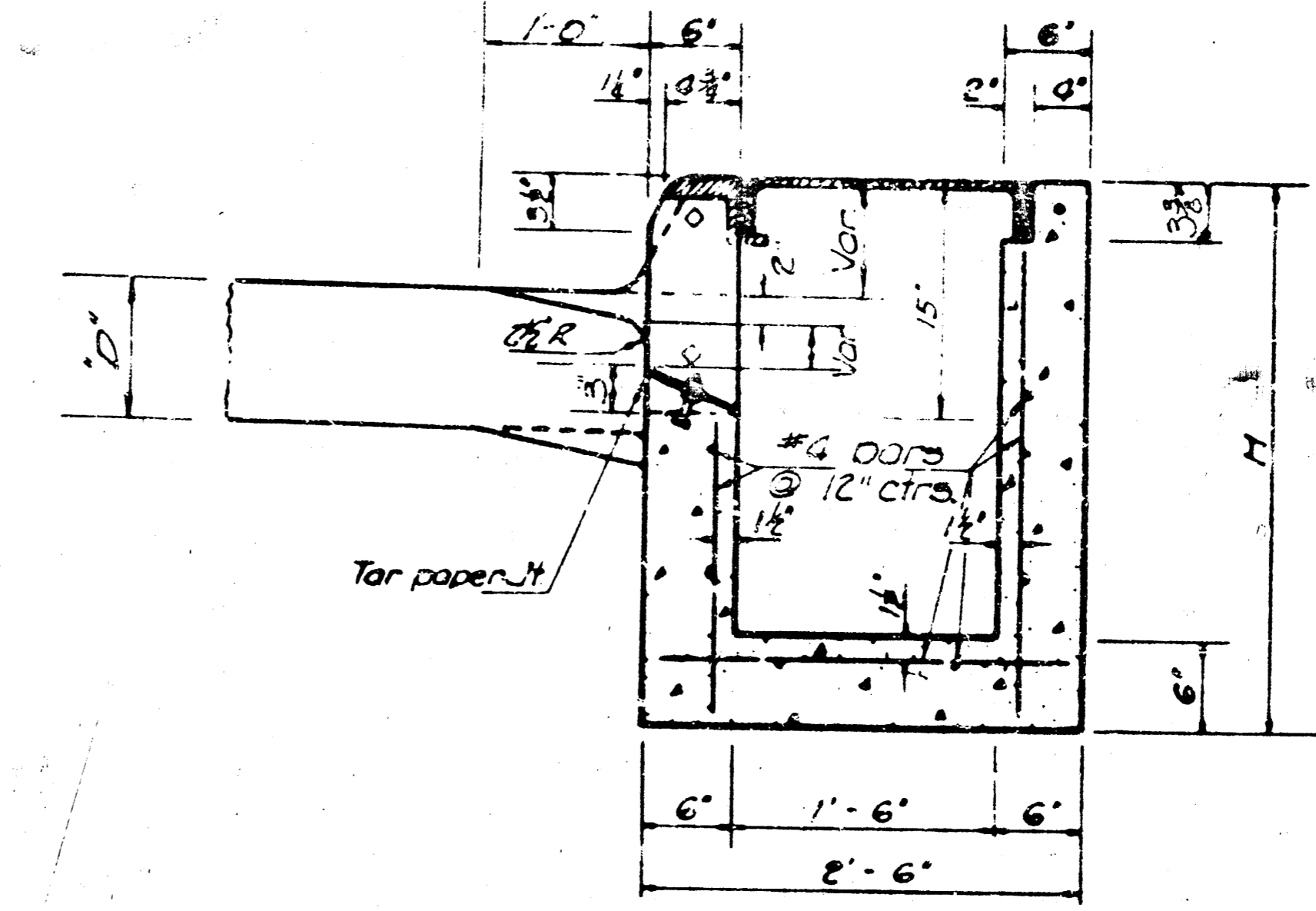


DETAILS OF CURB CASTING (IRON)

NOTE: All bolts and nuts shall be galvanized and meet the requirements of sub-section 1006.14 of the Standard Specifications.
 All weights of castings are calculated weights with no allowance for fillets, overruns, anchor bars and bolts.
 Weights of cast iron as shown on this sheet are minimum. Heavier weights of cast iron may be used, but payment for cast iron shall be made on the weight as shown on this sheet.
 Minor variations of design will be permitted on castings.

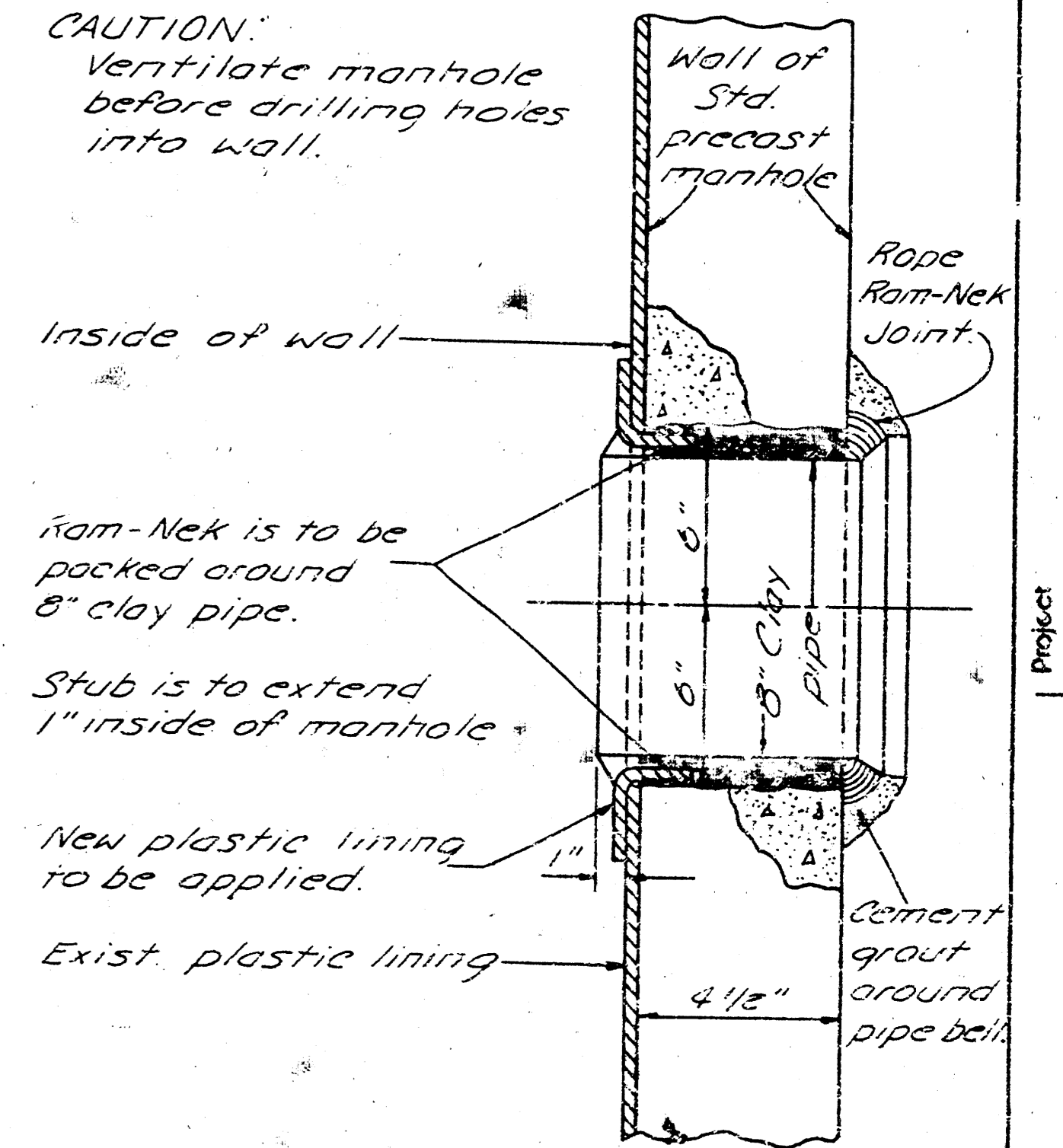


FRONT ELEVATION

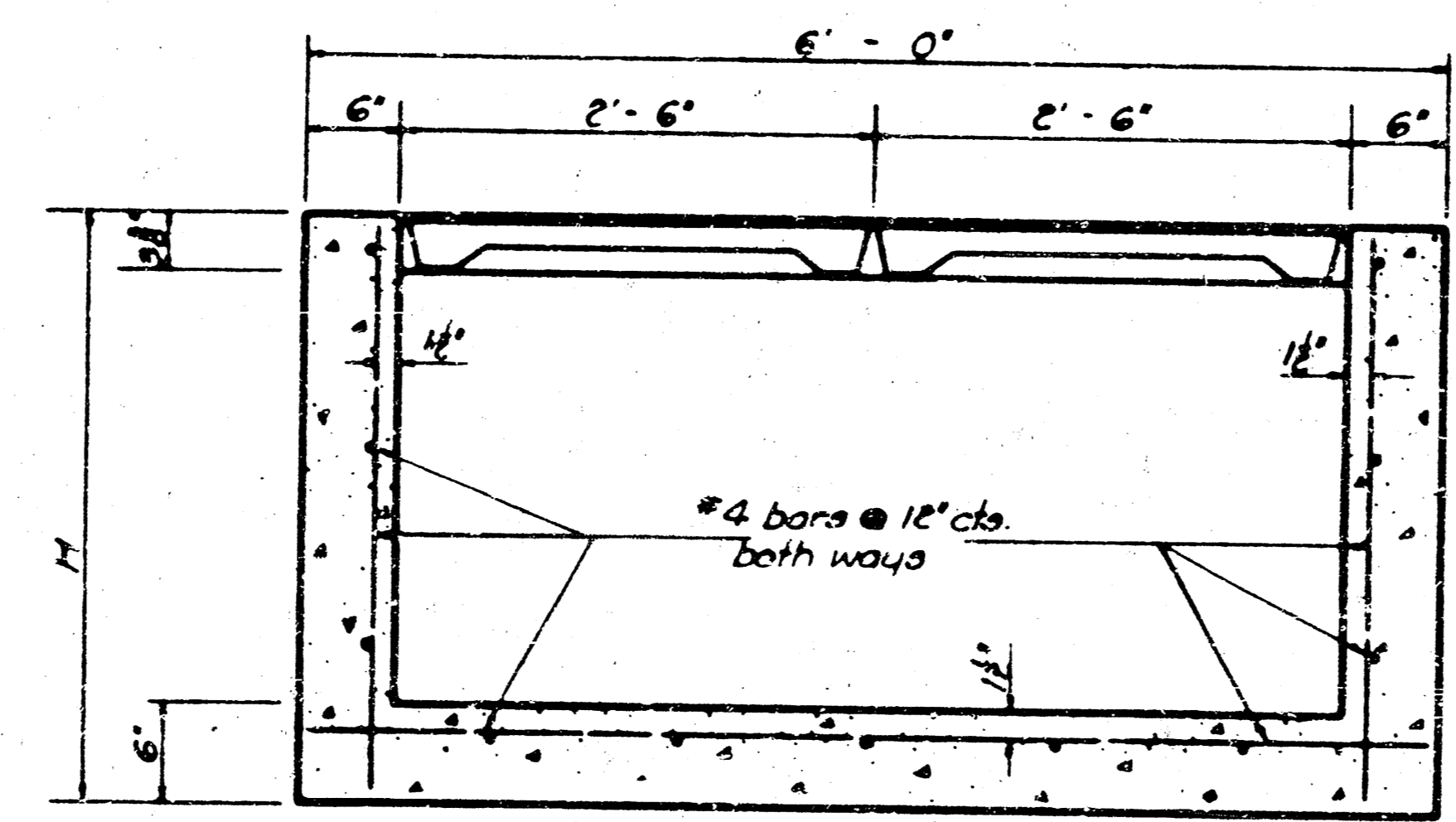


SECTION Y-Y

NOTE: See this sheet for shaping of depression at inlet. This work shall be paid for as "Concrete Pavement".
 Floor of Inlet shall be shaped as shown in various "EXAMPLES" on Reinforced Concrete Manhole Standard No. 633.
 Concrete used for shaping shall be unreinforced Class "A" concrete.
 No addition in concrete quantities shall be made for shaping floor of inlets.

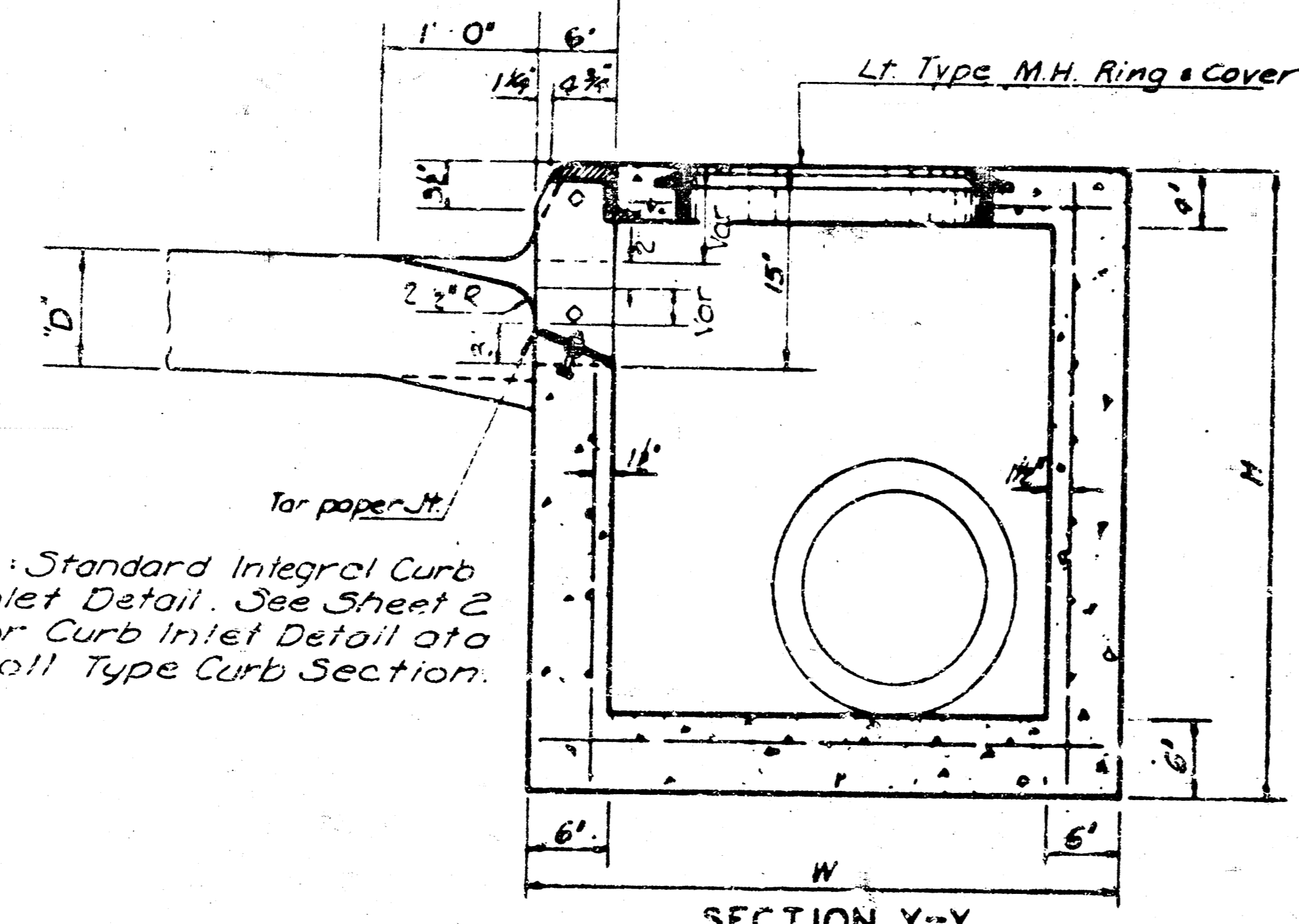


DETAIL - TIE IN FOR PLASTIC LINED SAN. SEWER MANHOLE NO SCALE



SECTION X-X

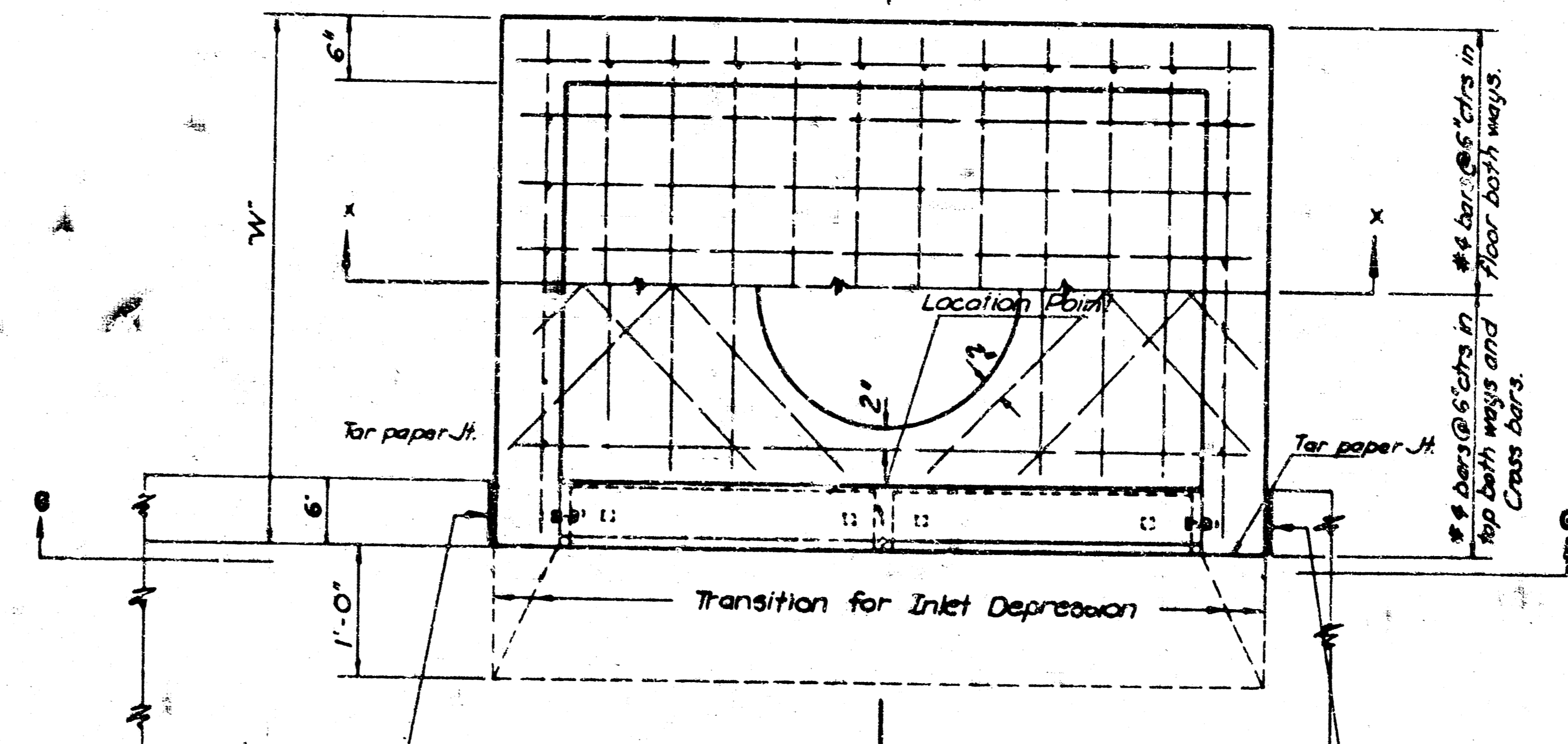
Note: All castings shall be gray iron and shall comply with ASTM A-48 Class 25-3.



SECTION Y-Y

NOTE: Standard Integral Curb Inlet Detail. See Sheet 2 for Curb Inlet Detail at a Roll Type Curb Section.

NOTE: See standard sheet for Concrete Pavement Auxiliary Details, for shaping gutter approaching and leaving inlets. This shaping will be required at all "Los A" inlets, unless otherwise noted on the plans. This work will be paid for as follows; where combined curb & gutter is used the entire length of the shaped gutter and the curb, together with the concrete under the gutter casting, shall be paid for as "Combined Curb & Gutter, Type 1". Where concrete pavement and edge curb is used the shaped approaches and the edge curb, together with the concrete under the gutter casting, shall be paid for as "Concrete Pavement" and "Edge Curb". See Standard Sheet No. 34 for Details of Manholes.

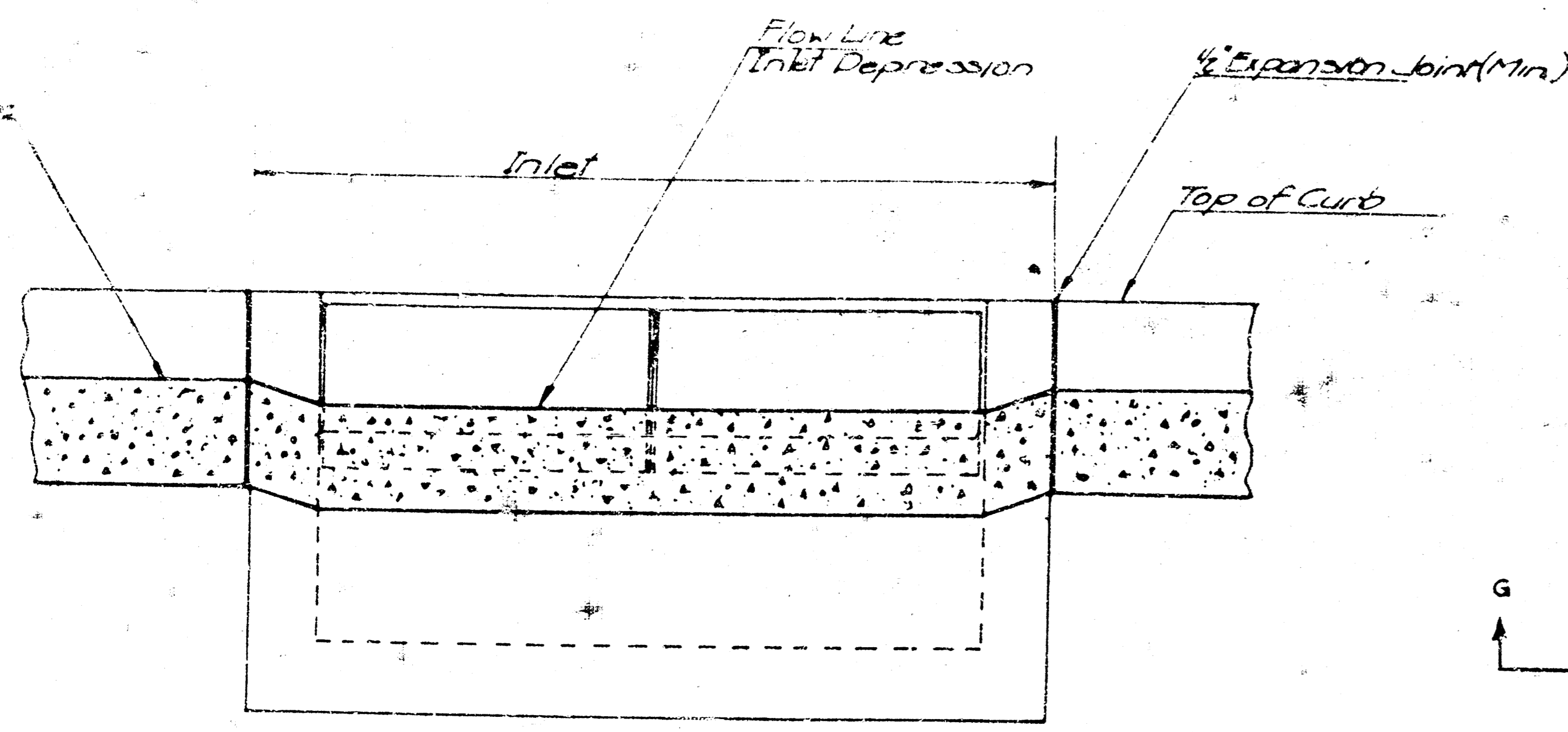


Transition for Inlet Depression

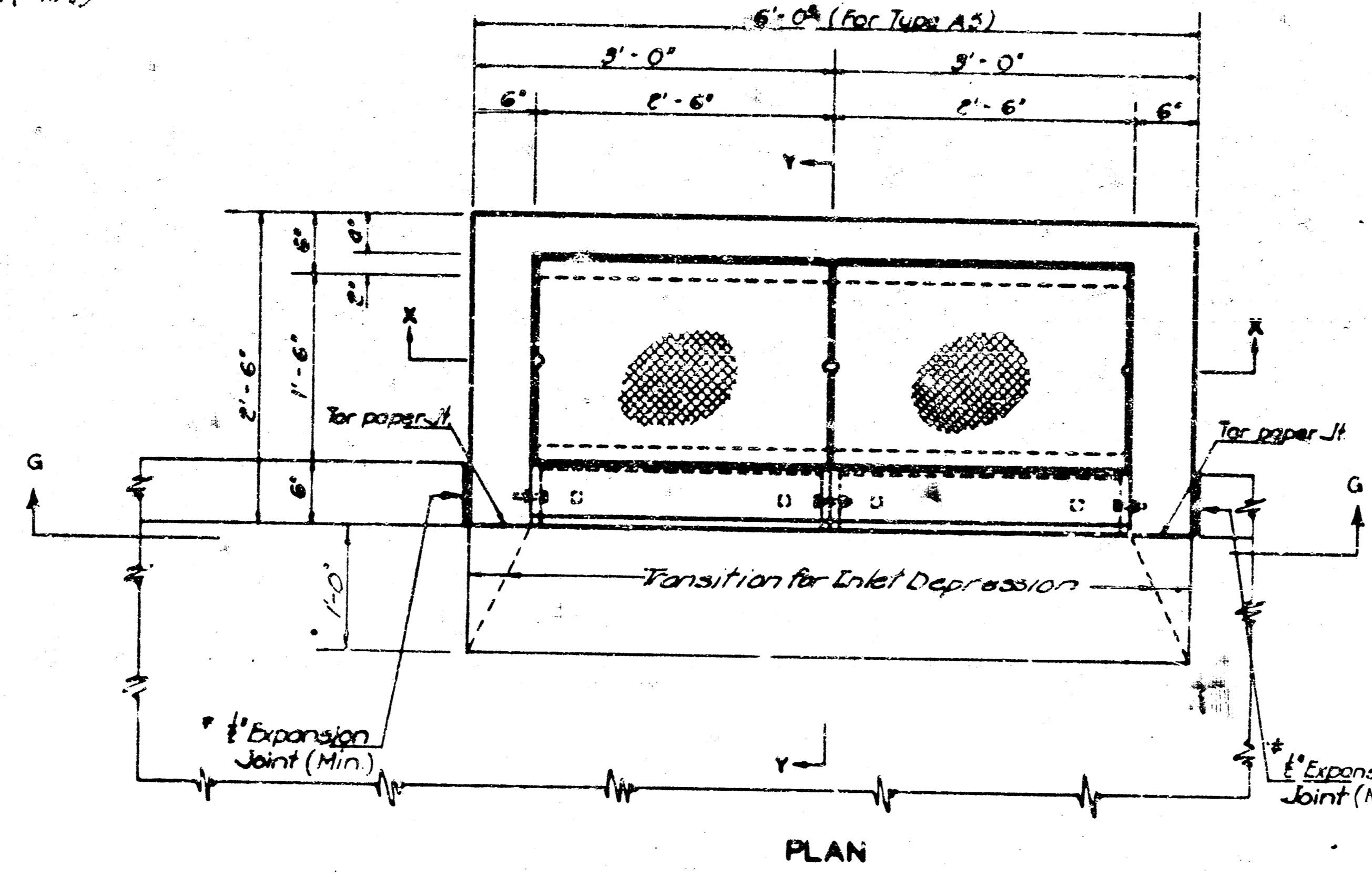
Note: Use Class A Concrete throughout. Bevel all exposed edges with a 3/8" triangular moulding. Reinforcing bars shall be bent around pipe. No deductions in concrete quantities shall be made for pipe openings.

At the contractor's option, Class A Concrete (AE) may be used throughout, but payment shall be made as Cu.Yds. of Class A Concrete miscellaneous. A small opening may be required in the back of the inlet to drain a low area, if ordered by the Engineer. Reinforcing bars will extend through the opening. No deduction in concrete quantities will be made for this opening.

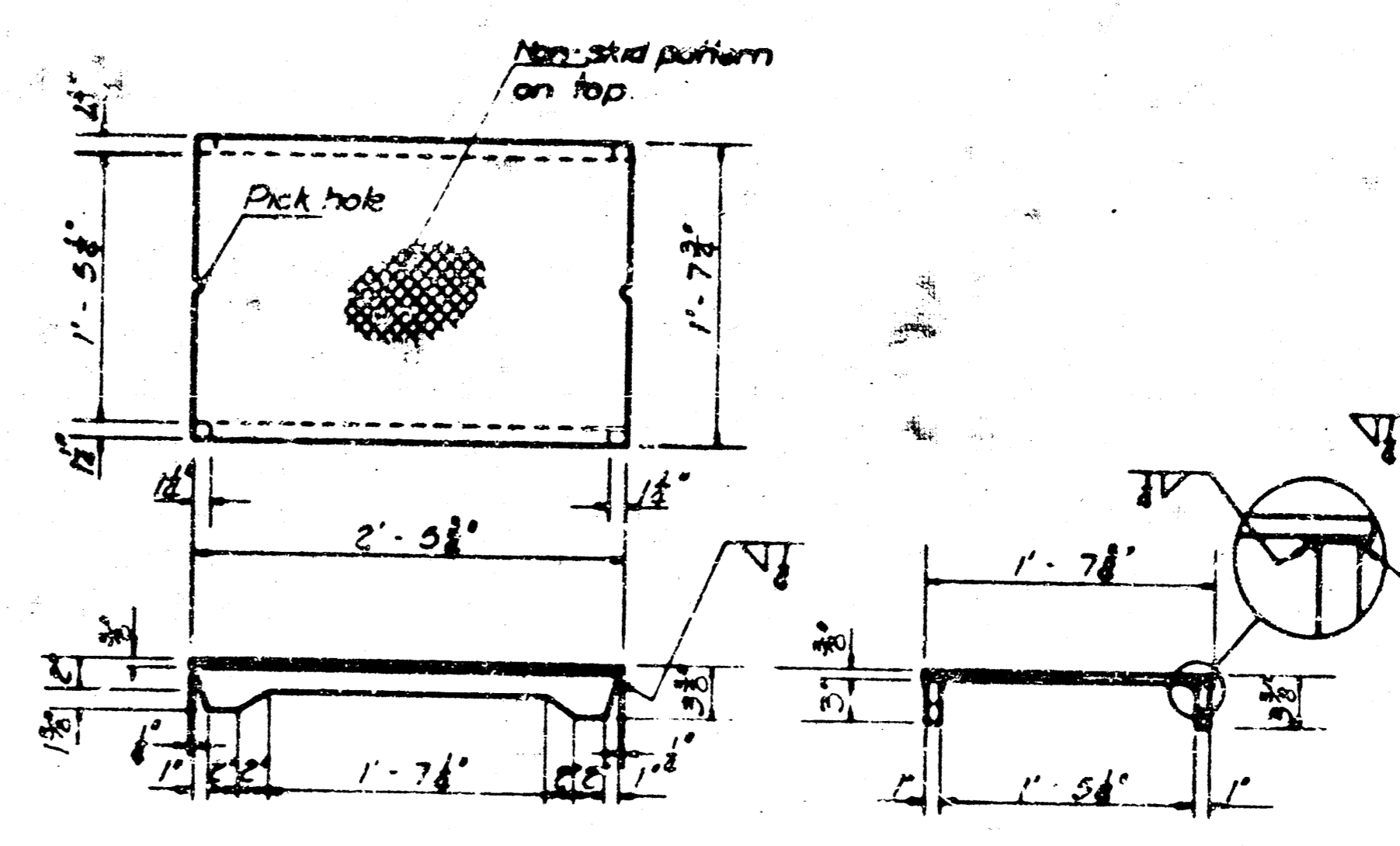
When so ordered by the Engineer the top of the inlet shall be sloped slightly to approximately fit the ground line or other conditions. All exposed cast iron surfaces shall be painted either in the shop or in the field with one coat of a zinc dust paint, followed by two field coats of aluminum paint.



SECTION G-G

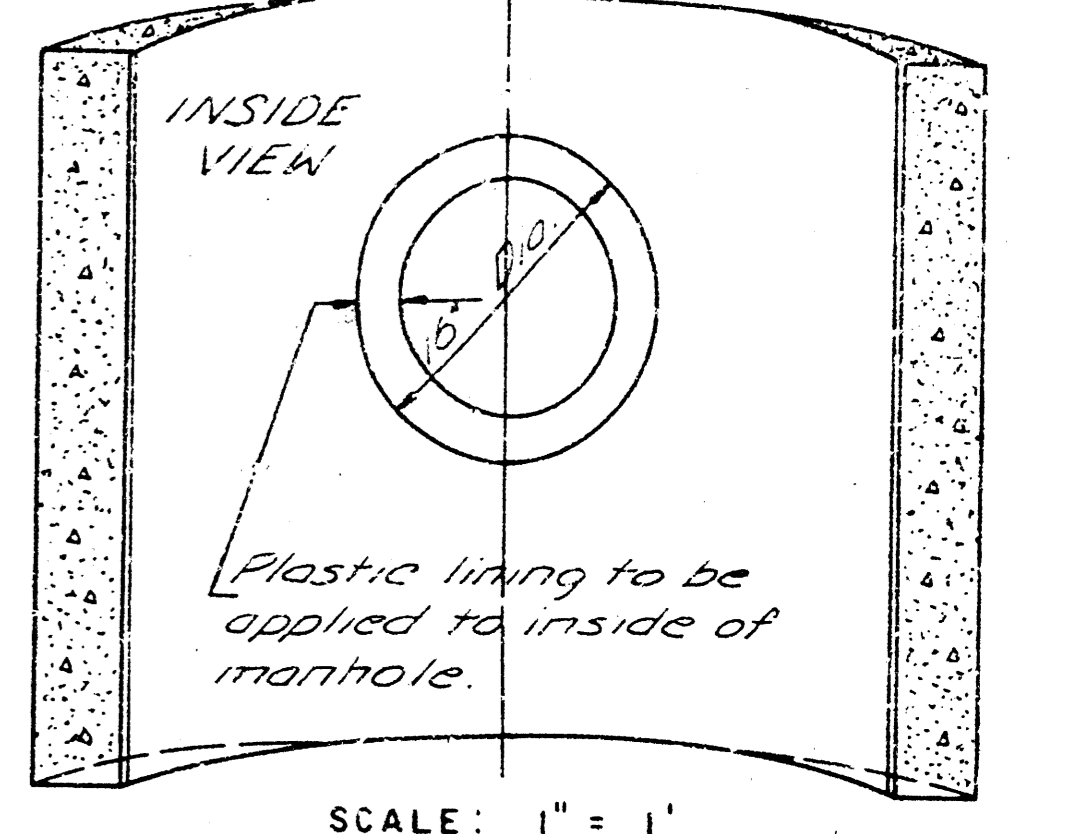
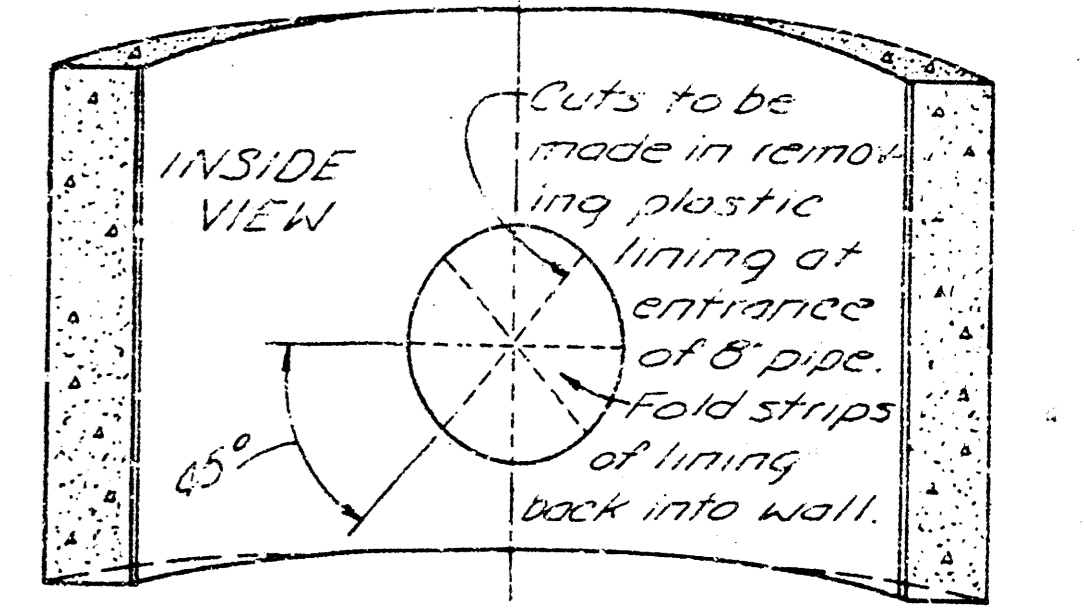
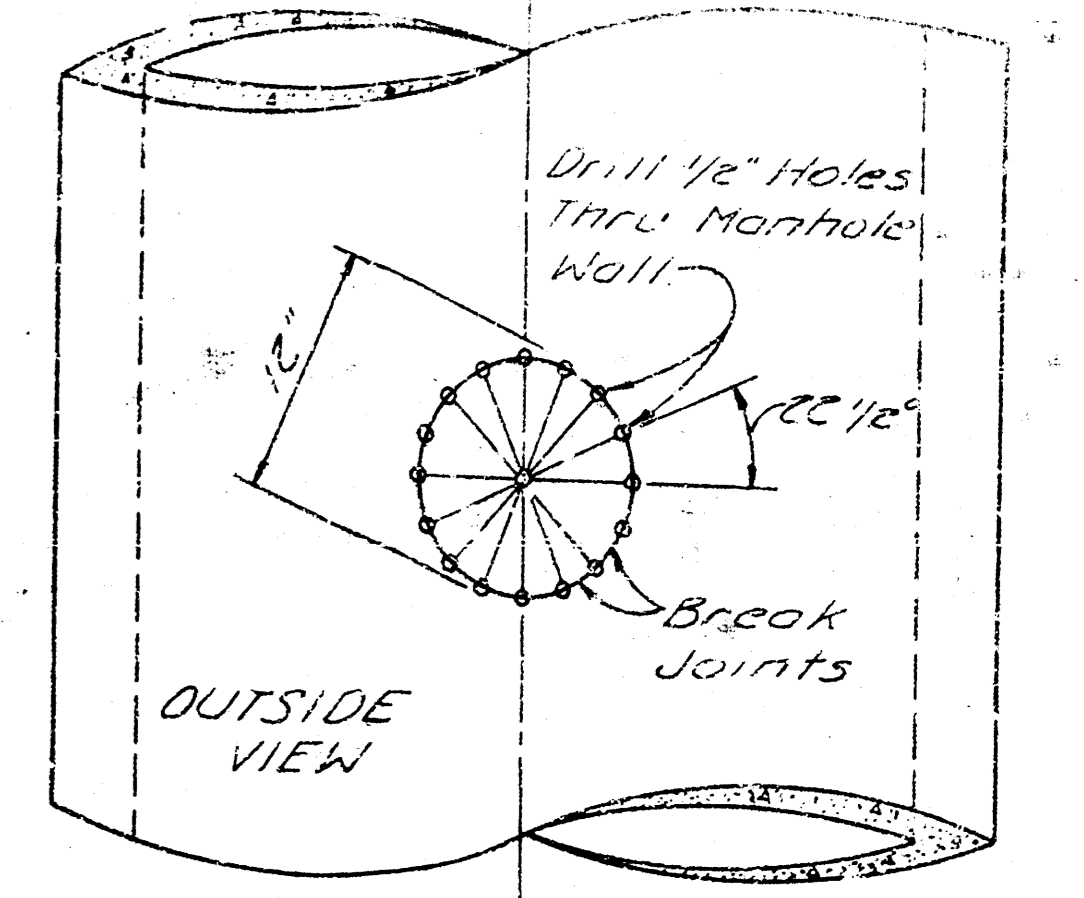


PLAN

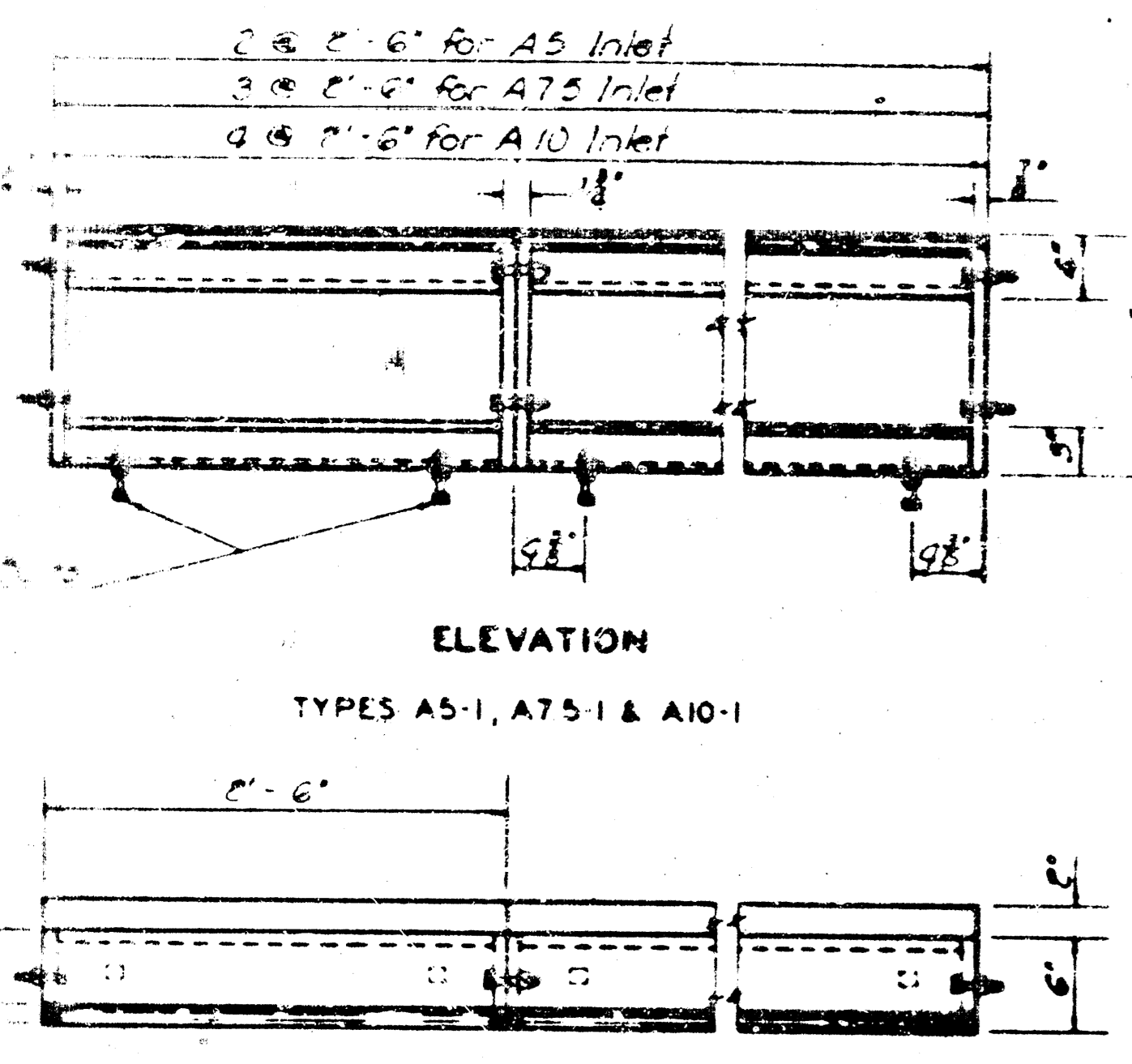


* STRUCTURAL STEEL COVER PLATE

Weight 98 Lbs Each
 ** At the contractor's option, the supports on the cover plate may be made of 2" stock with the "feet" portions welded to the 2" steel bars. The weld shall be 1/4" full length, each side and ground smooth on the out side.
 * Nonskid steel floor plate (Commercial grade), welded to steel (ASTM A7, A36, A242 or A441) bars.

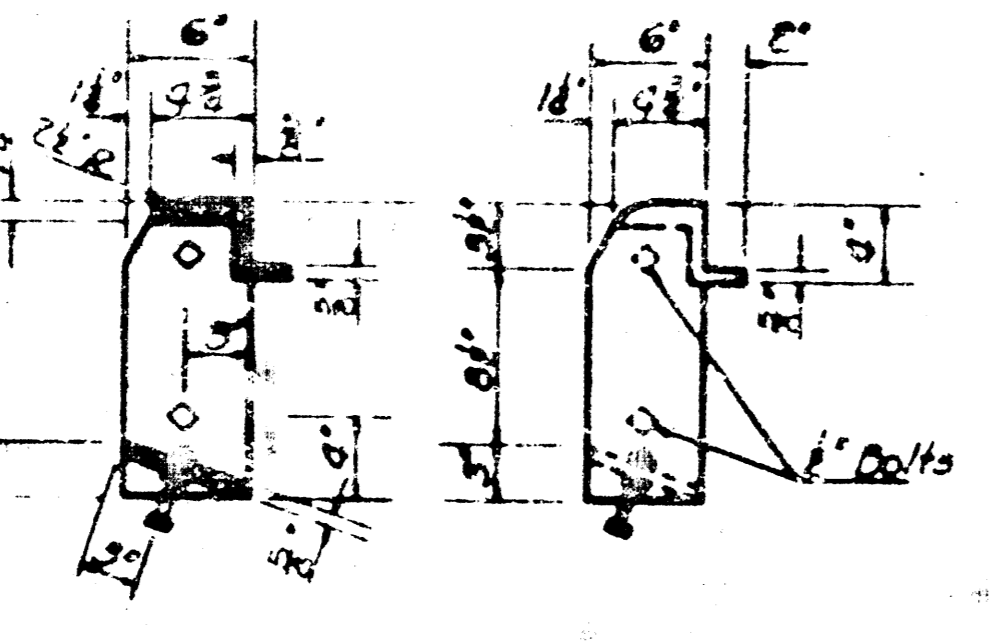


SCALE: 1" = 1'



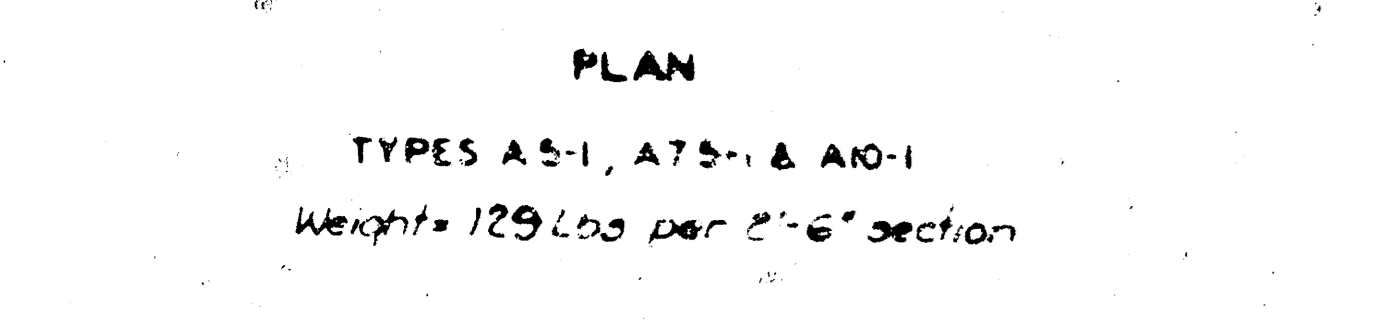
ELEVATION

TYPES A5-1, A75-1 & A10-1



SECTION END VIEW

TYPES A5-1, A75-1 & A10-1



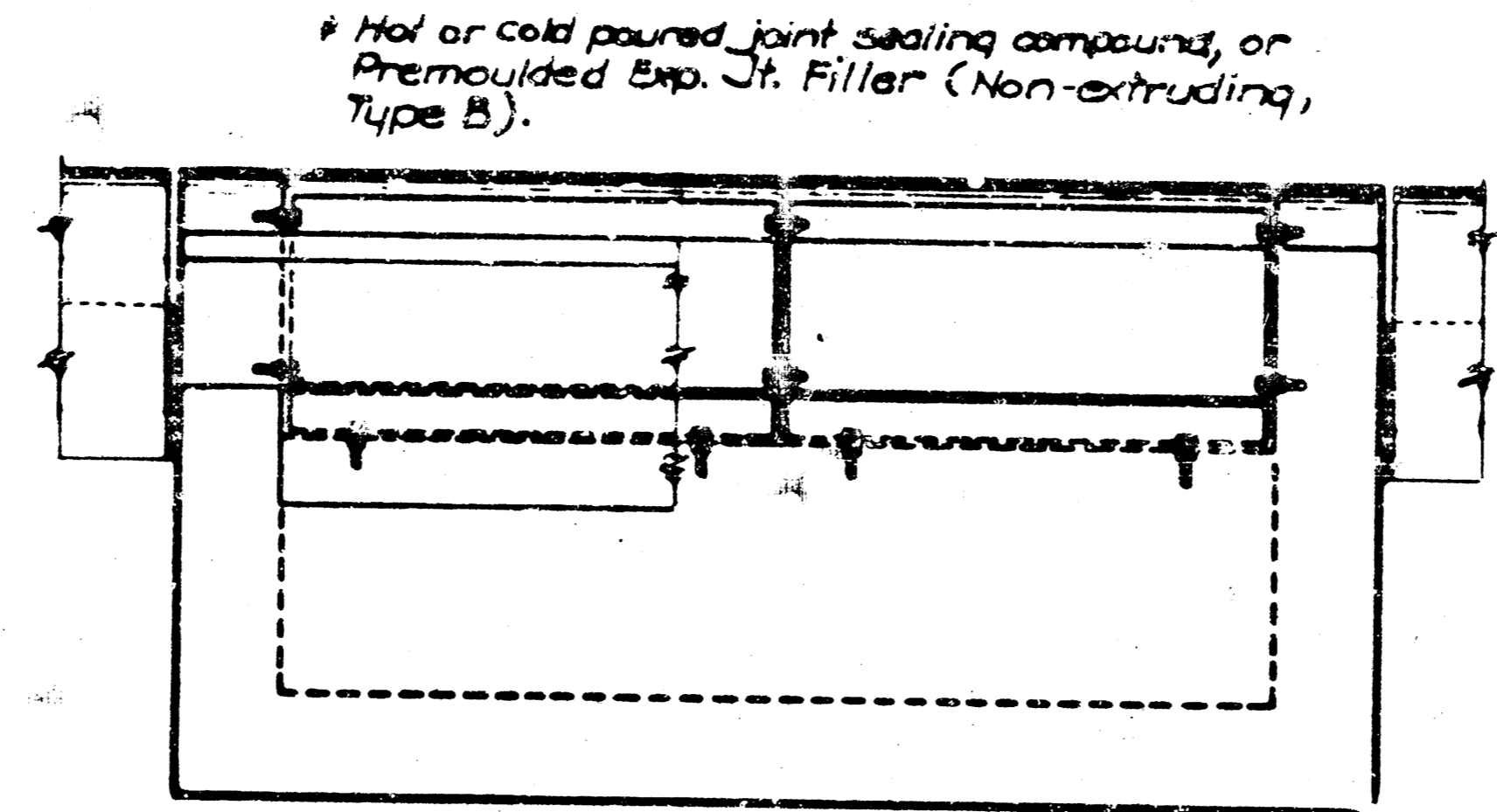
PLAN

TYPES A5-1, A75-1 & A10-1

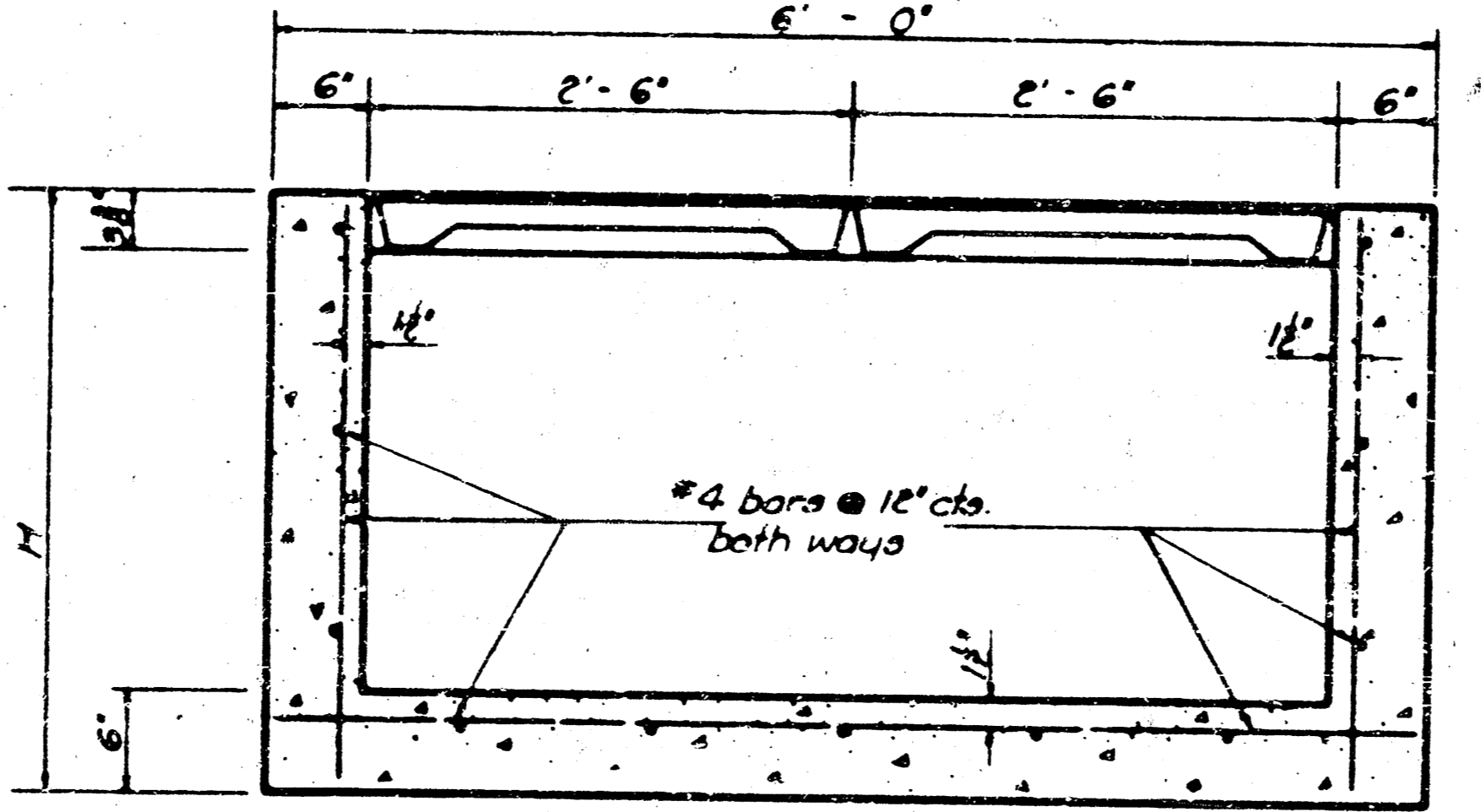
Weight: 129 Lbs per 2'-6" section

DETAILS OF CURB CASTING (IRON)

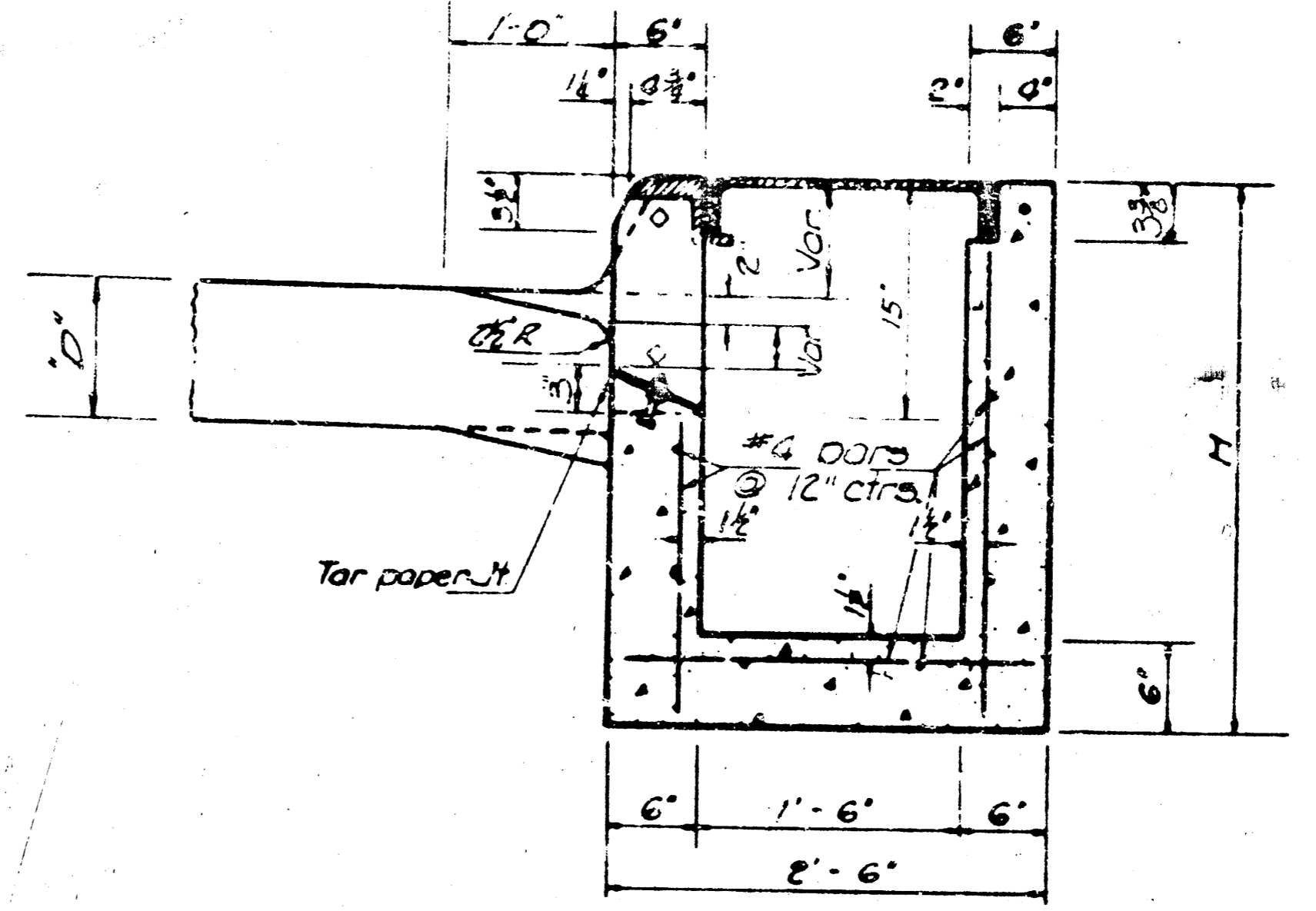
NOTE: All bolts and nuts shall be galvanized and meet the requirements of sub-section 1006.14 of the Standard Specifications.
 All weights of castings are calculated weights with no allowance for fillets, overruns, anchor bars and bolts.
 Weights of cast iron as shown on this sheet are minimum. Heavier weights of cast iron may be used, but payment for cast iron shall be made on the weight as shown on this sheet.
 Minor variations of design will be permitted on castings.



FRONT ELEVATION

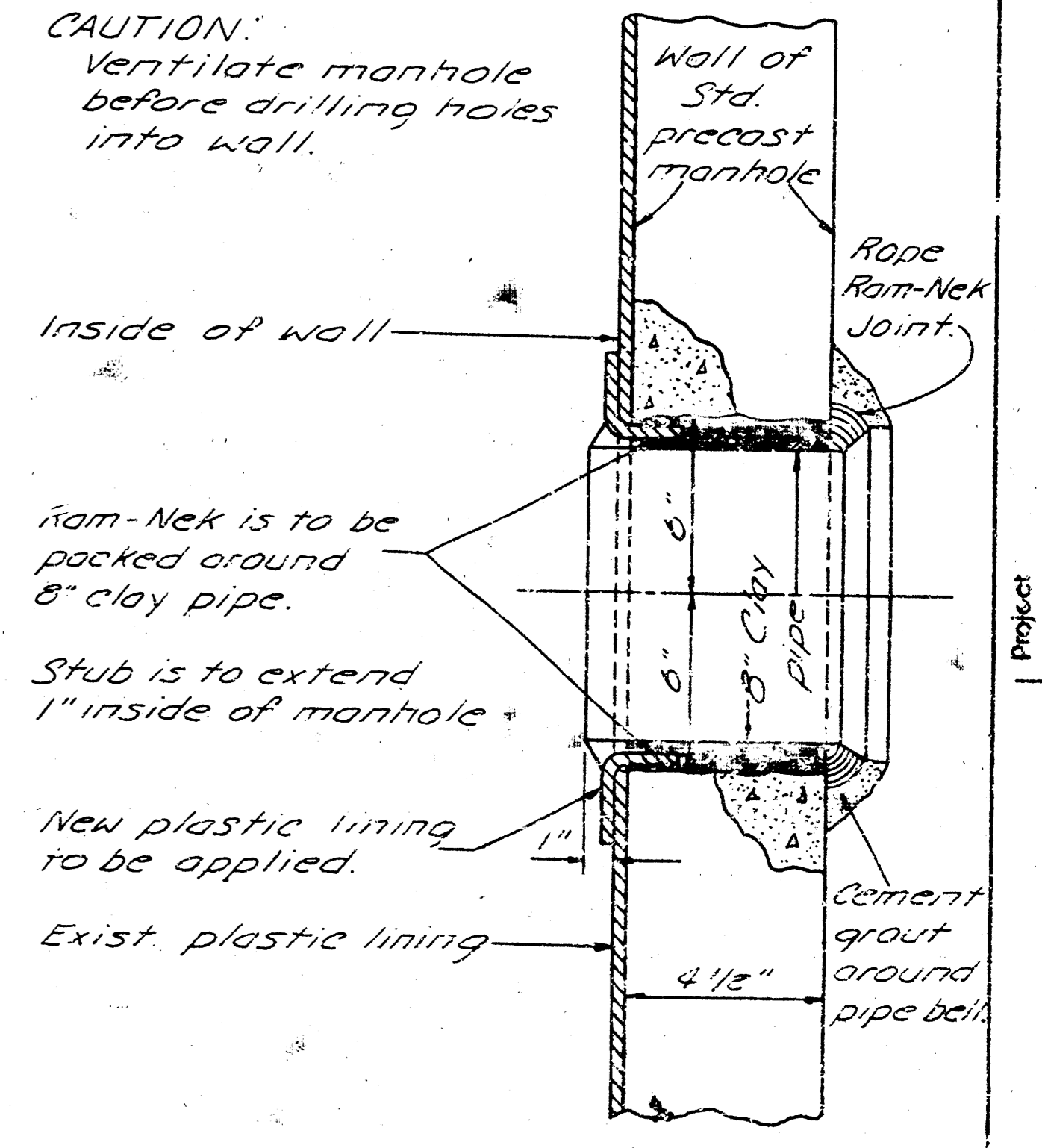


SECTION X-X



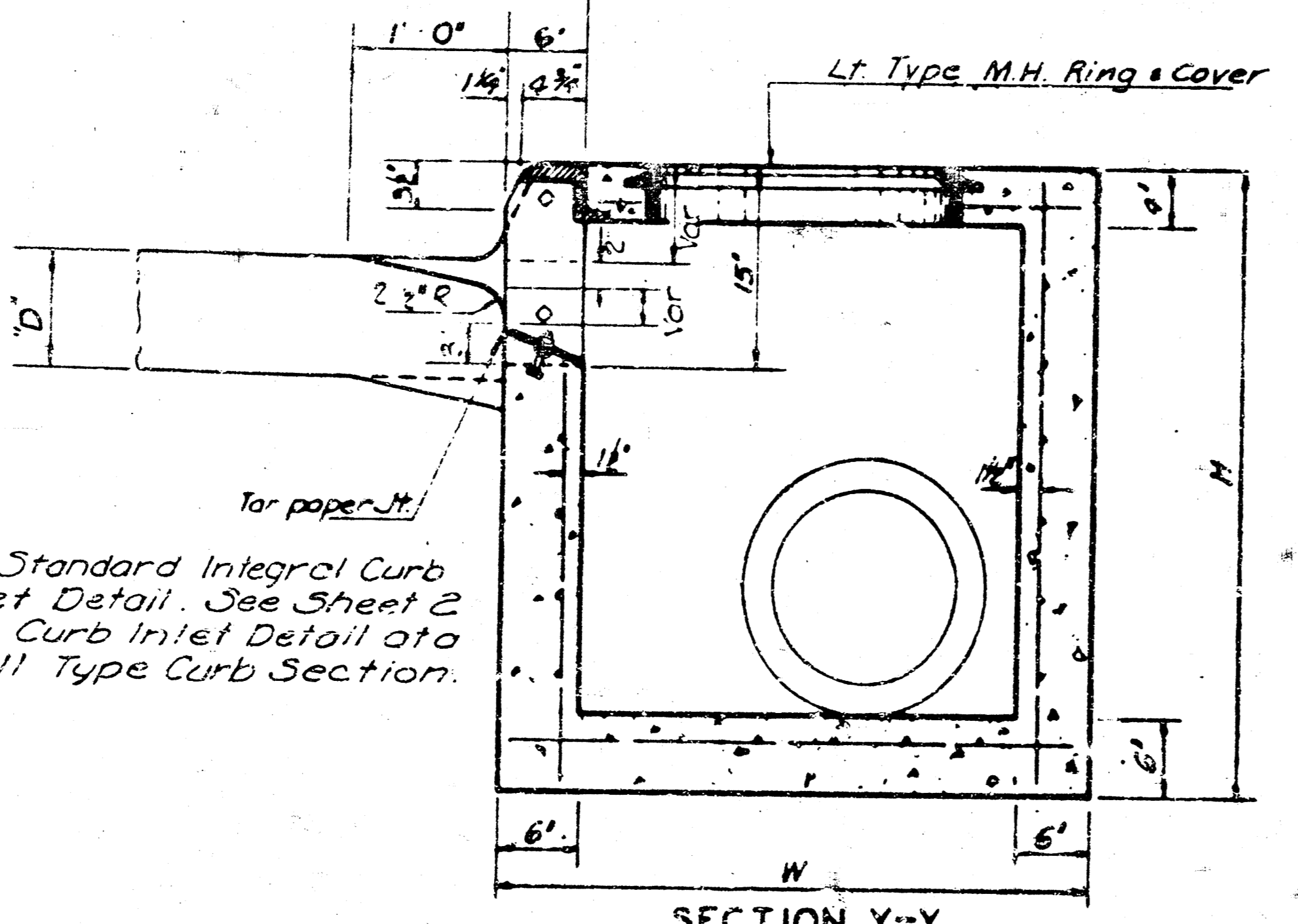
SECTION Y-Y

NOTE: See this sheet for shaping of depression at inlet. This work shall be paid for as "Concrete Pavement".
 Floor of Inlet shall be shaped as shown in various "EXAMPLES" on Reinforced Concrete Manhole Standard No. 633.
 Concrete used for shaping shall be unreinforced Class "A" concrete.
 No addition in concrete quantities shall be made for shaping floor of inlets.



DETAIL - TIE IN FOR PLASTIC LINED SAN. SEWER MANHOLE NO SCALE

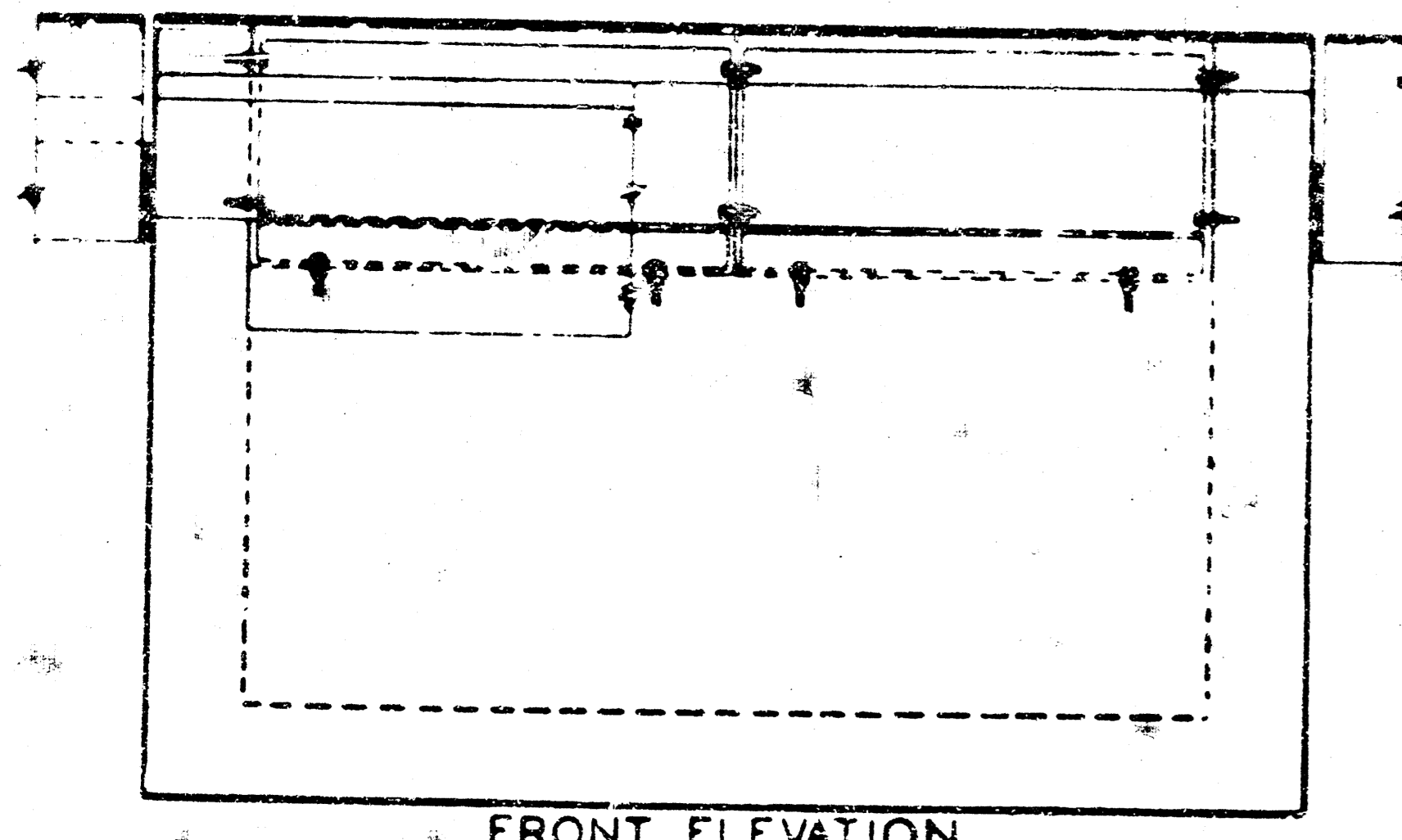
Note: All castings shall be gray iron and shall comply with ASTM A-48 Class 25-3.



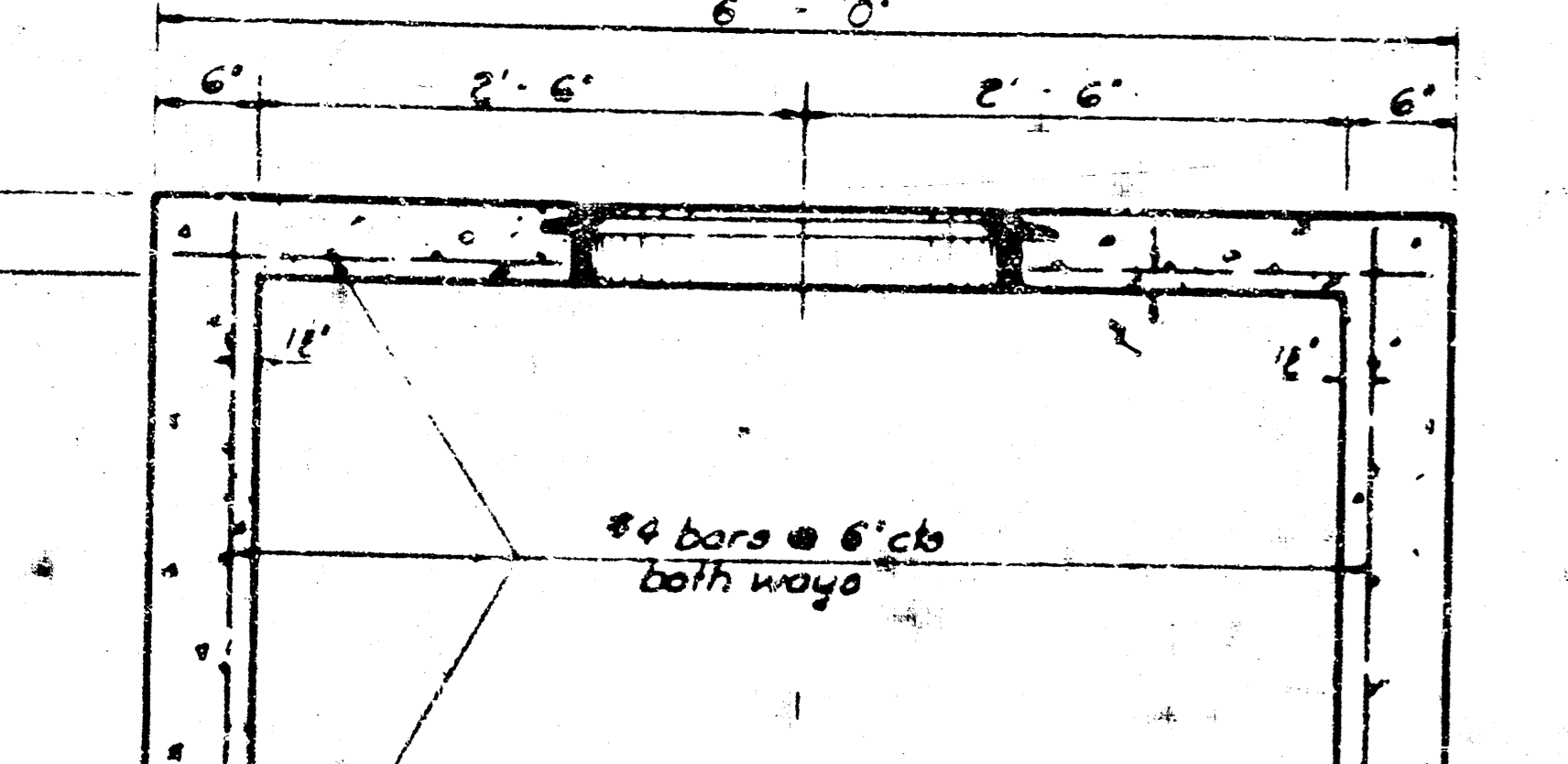
SECTION Y-Y

NOTE: Standard Integral Curb Inlet Detail. See Sheet 2 for Curb Inlet Detail at a Roll Type Curb Section.

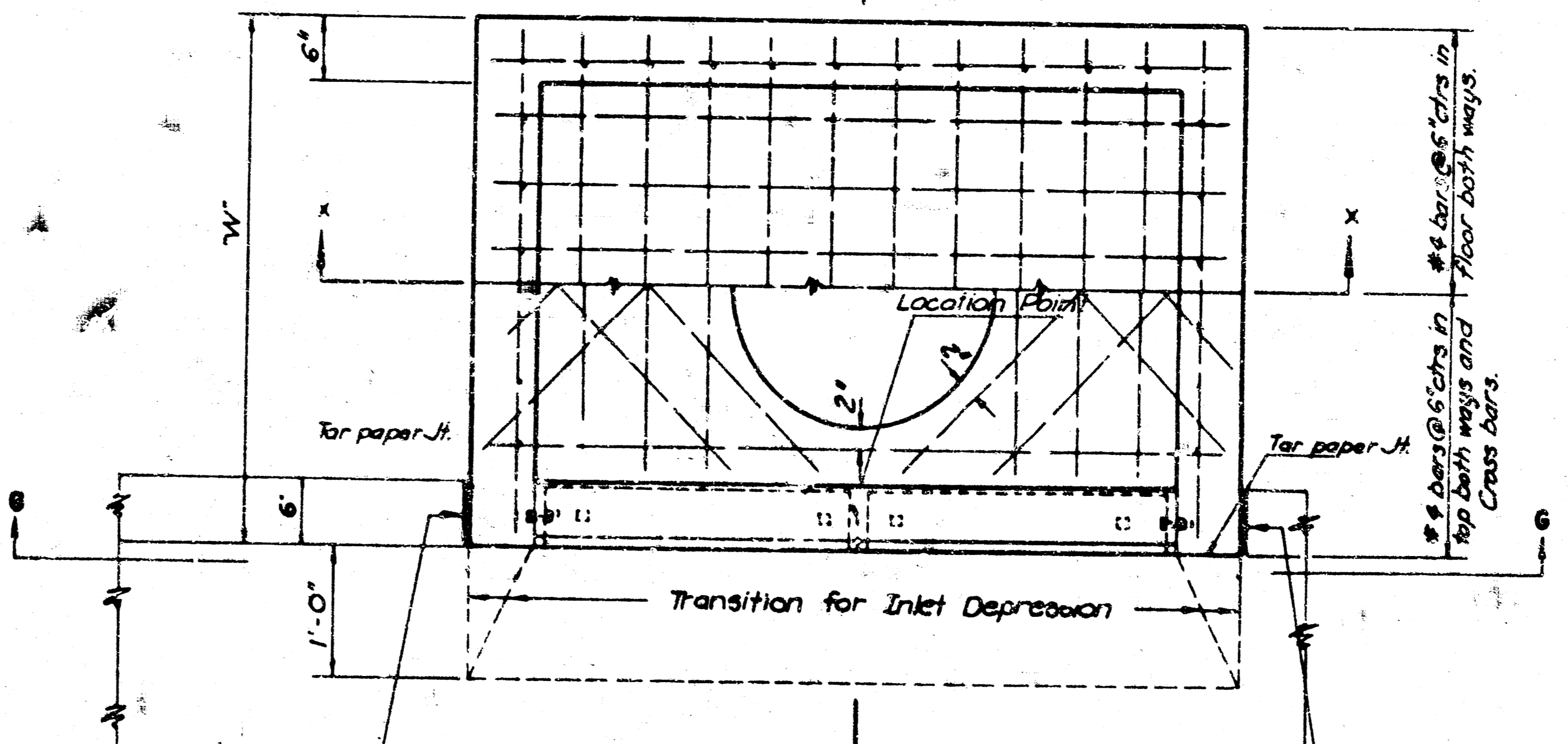
NOTE: See standard sheet for Concrete Pavement Auxiliary Details, for shaping gutter approaching and leaving inlets. This shaping will be required at all "Los A" inlets, unless otherwise noted on the plans. This work will be paid for as follows; where combined curb & gutter is used the entire length of the shaped gutter and the curb, together with the concrete under the gutter casting, shall be paid for as "Combined Curb & Gutter, Type 1". Where concrete pavement and edge curb is used the shaped approaches and the edge curb, together with the concrete under the gutter casting, shall be paid for as "Concrete Pavement" and "8" Edge Curb". See Standard Sheet No. 34 for Details of Manholes.



FRONT ELEVATION



PLAN



Transition for Inlet Depression

Note: Use Class A Concrete throughout. Bevel all exposed edges with a 3/8" triangular moulding. Reinforcing bars shall be bent around pipe. No deductions in concrete quantities shall be made for pipe openings.

At the contractor's option, Class A Concrete (AE) may be used throughout, but payment shall be made as Cu.Yds. of Class A Concrete miscellaneous. A small opening may be required in the back of the inlet to drain a low area, if ordered by the Engineer. Reinforcing bars will extend through the opening. No deduction in concrete quantities will be made for this opening.

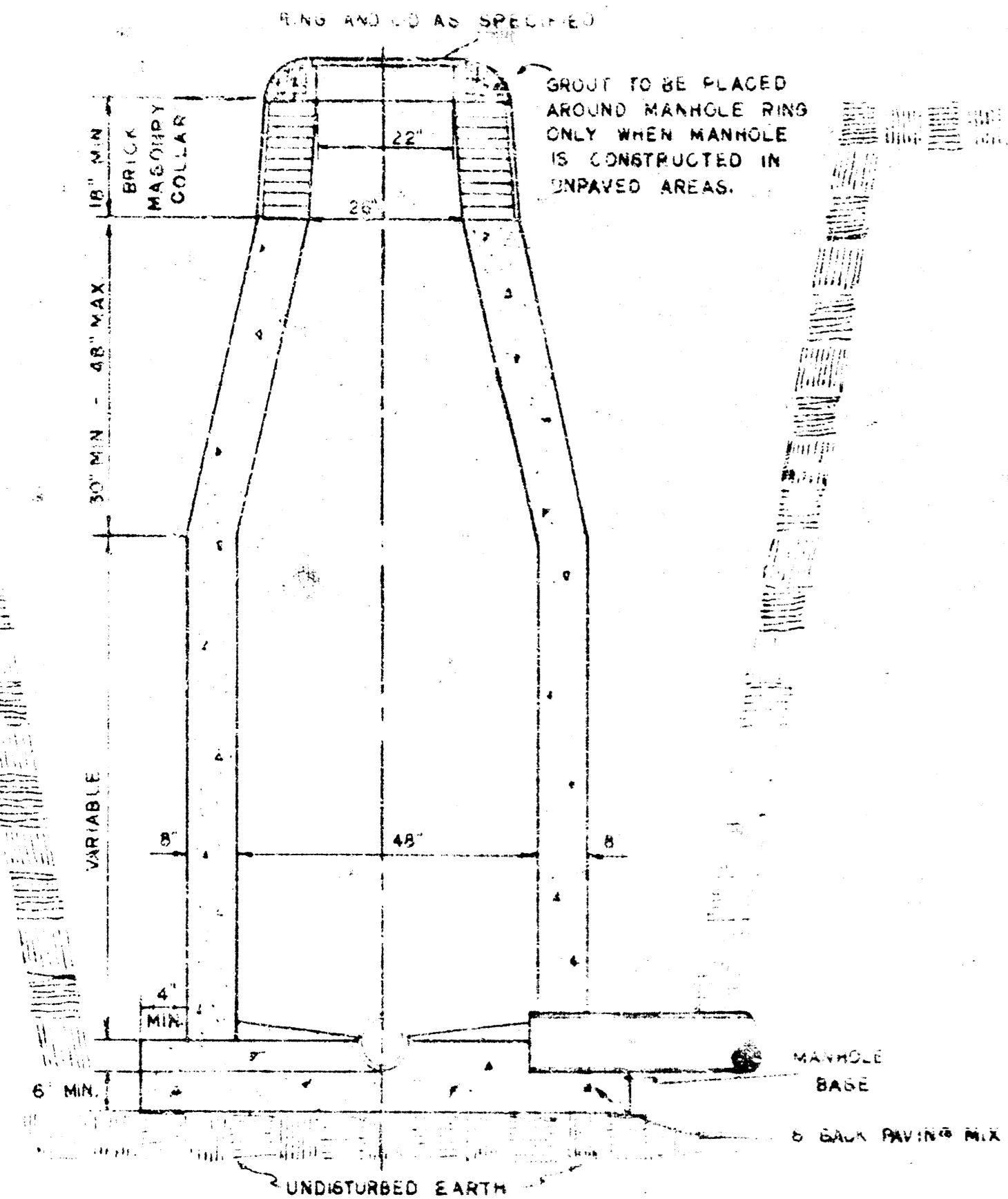
When so ordered by the Engineer the top of the inlet shall be sloped slightly to approximately fit the ground line or other conditions. All exposed cast iron surfaces shall be painted either in the shop or in the field with one coat of a zinc dust paint, followed by two field coats of aluminum paint.

Project: ONE STORY MERCANTILE BUILDING S.E.C. 47th ST. SOUTH & BROADWAY WICHITA, KANSAS

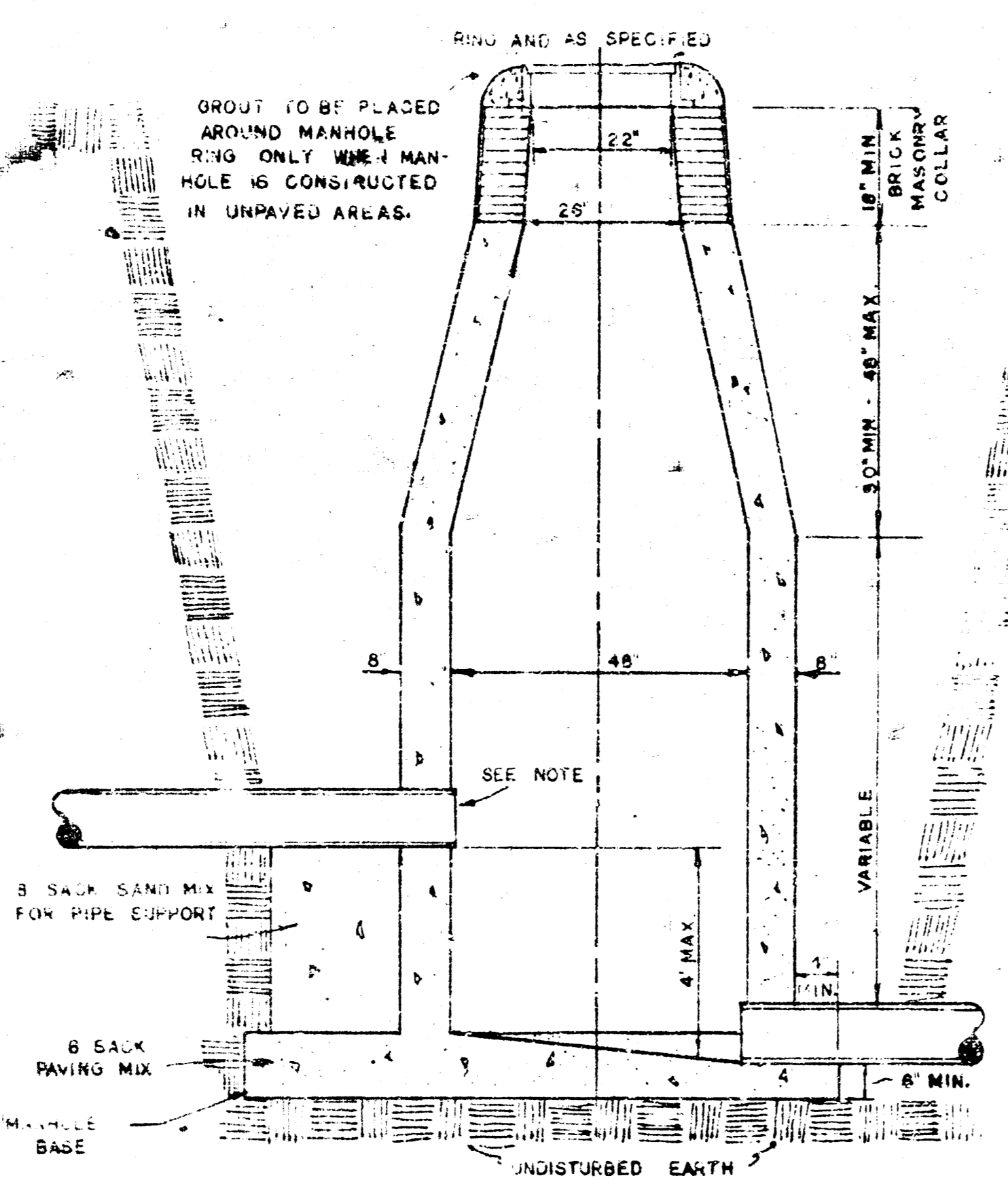
Architect: Welch Associates Architects & Planners 2601 Northwestern Highway, Suite 416, Southfield, Michigan 48075 Phone: 313/353-3890

Contractor: Do not cash order. Use Engineer's stamp.

STANDARD MANHOLE, TYPE "C"



DROP MANHOLE, TYPE "C"



GENERAL NOTES

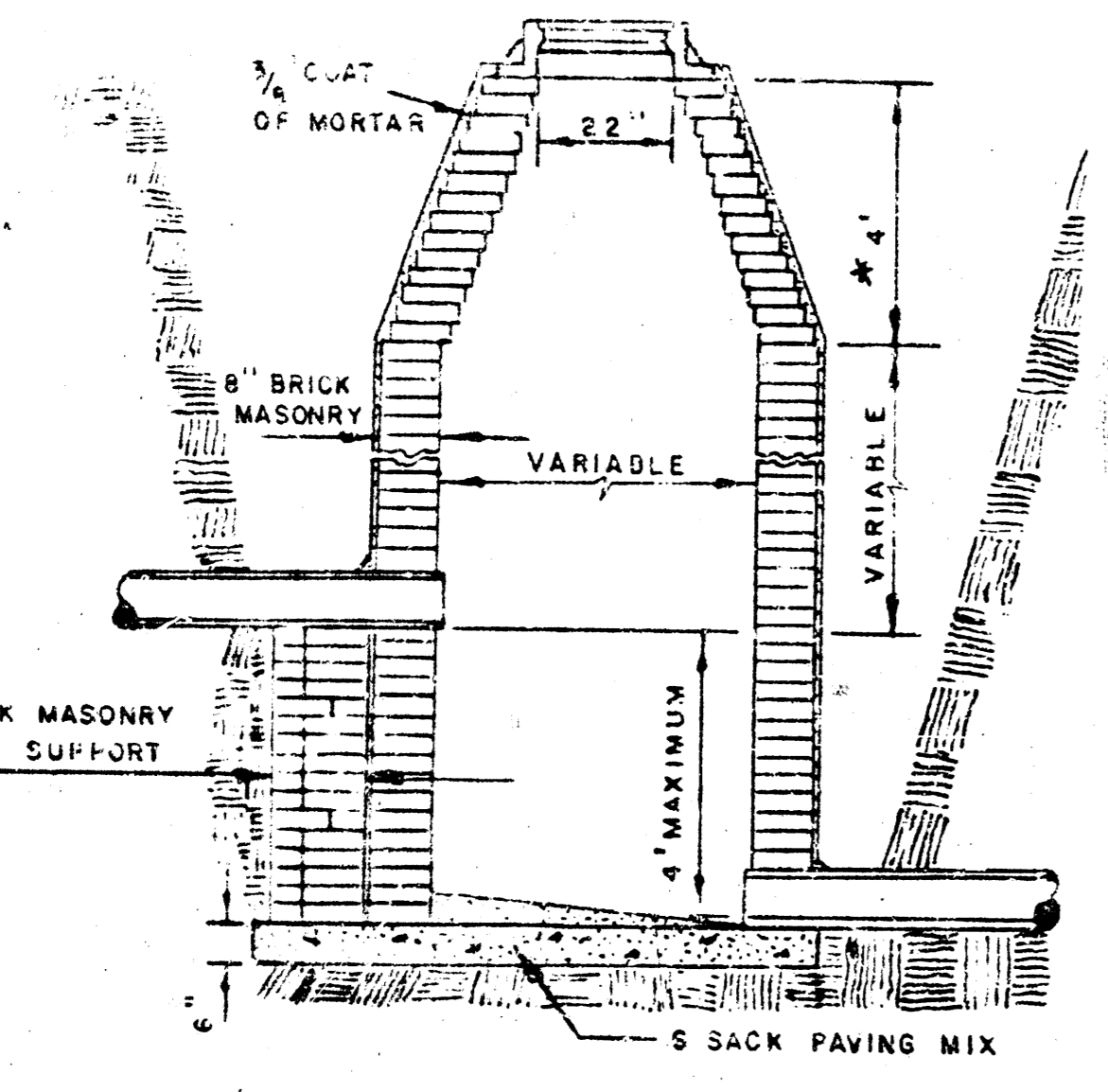
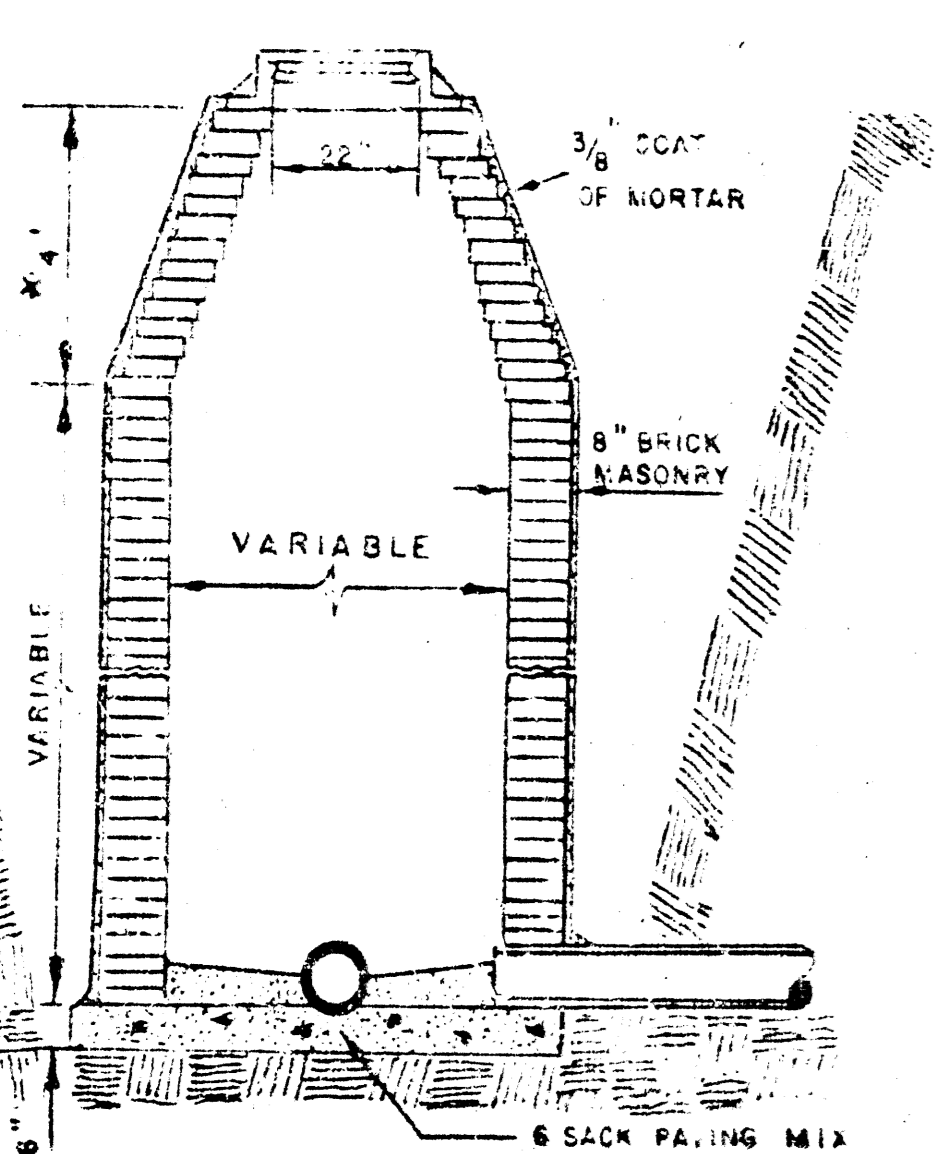
MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD.

STANDARD MANHOLES TYPE "C" AND STANDARD DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED.

OUTSIDE DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4 FT UNLESS INDICATED OTHERWISE. MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5 FT DIAMETER.

THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO INCREASE HYDRAULIC EFFICIENCY USING 8 SACK SAND MIX CONCRETE.

CAST IN PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY ON SEWERS NOT SUBJECT TO DETRIERATION OF CONCRETE DUE TO FORMATION OF HYDROGEN SULFIDE GAS AND IN LOCATIONS WHERE IT IS OBVIOUS THAT ANY ADJUSTMENT OF THE MANHOLE TOP ELEVATION WHICH MAY BE NECESSARY WILL NOT REQUIRE MODIFICATION OF THE CONCRETE BARREL.



STANDARD MANHOLE TYPE "A"

DROP MANHOLE TYPE "A"

MANHOLES

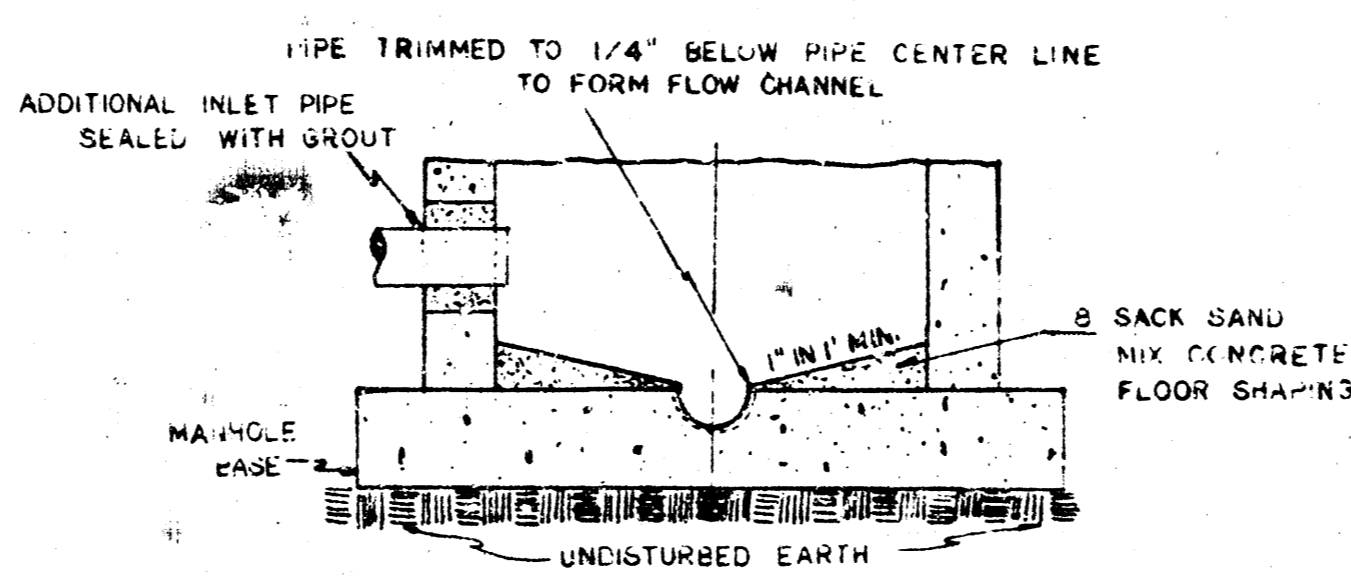
THE CONCRETE USED FOR MORTAR IN MANHOLES SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD.

STANDARD MANHOLES AND DROP MANHOLES, REGARDLESS OF DIAMETER, SHALL BE BID AT ONE PRICE AS STANDARD MANHOLES.

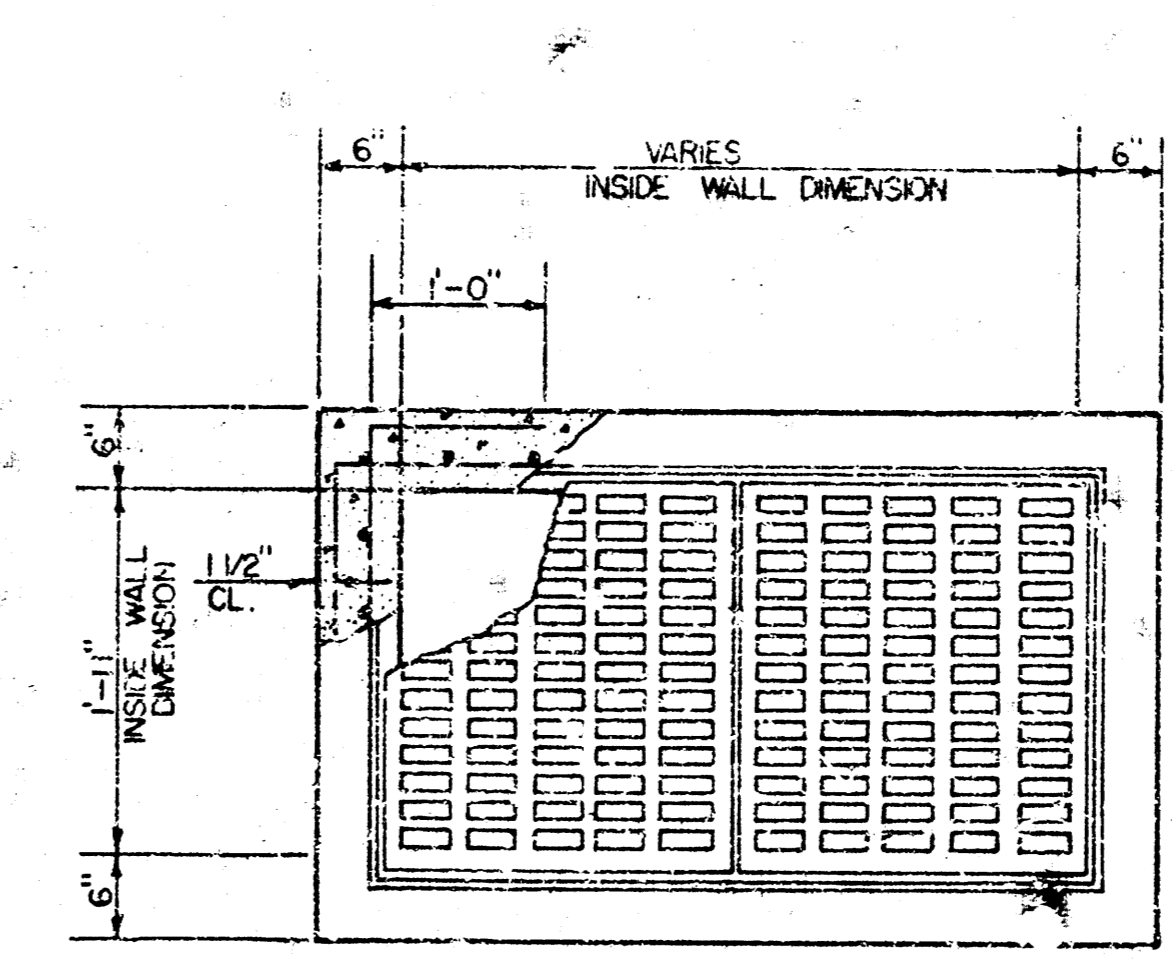
SINGLE OR DOUBLE OUTSIDE DROP MANHOLES SHALL BE BID AT ONE PRICE AS OUTSIDE DROP MANHOLES.

ALL MANHOLES WITH PIPES LARGER THAN 24" SHALL BE 5' DIAMETER UNLESS OTHERWISE SPECIFIED ON PLAN. ALL M.H.'S WITH PIPES 24" & SMALLER SHALL BE 4' DIA.

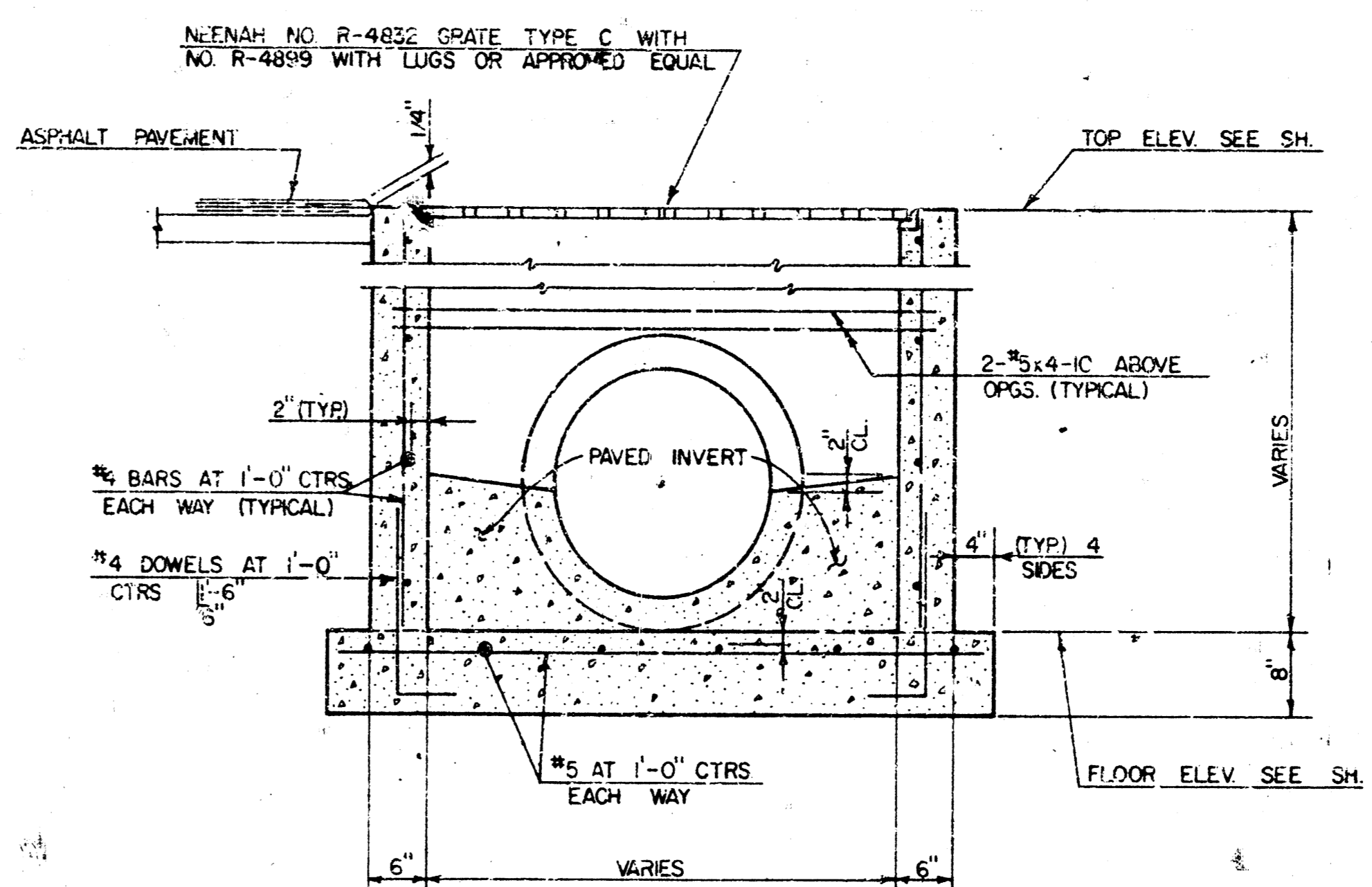
NOTE: OPENING FOR INLET PIPE CUT IN MANHOLE WALL AND PIPE GROUTED IN PLACE WITH NON-SHRINKING GROUT. EXTERIOR OF COMPLETED CONNECTION TO BE SEALED WITH APPROVED COATING.



SECTIONAL ELEVATION-INVERT

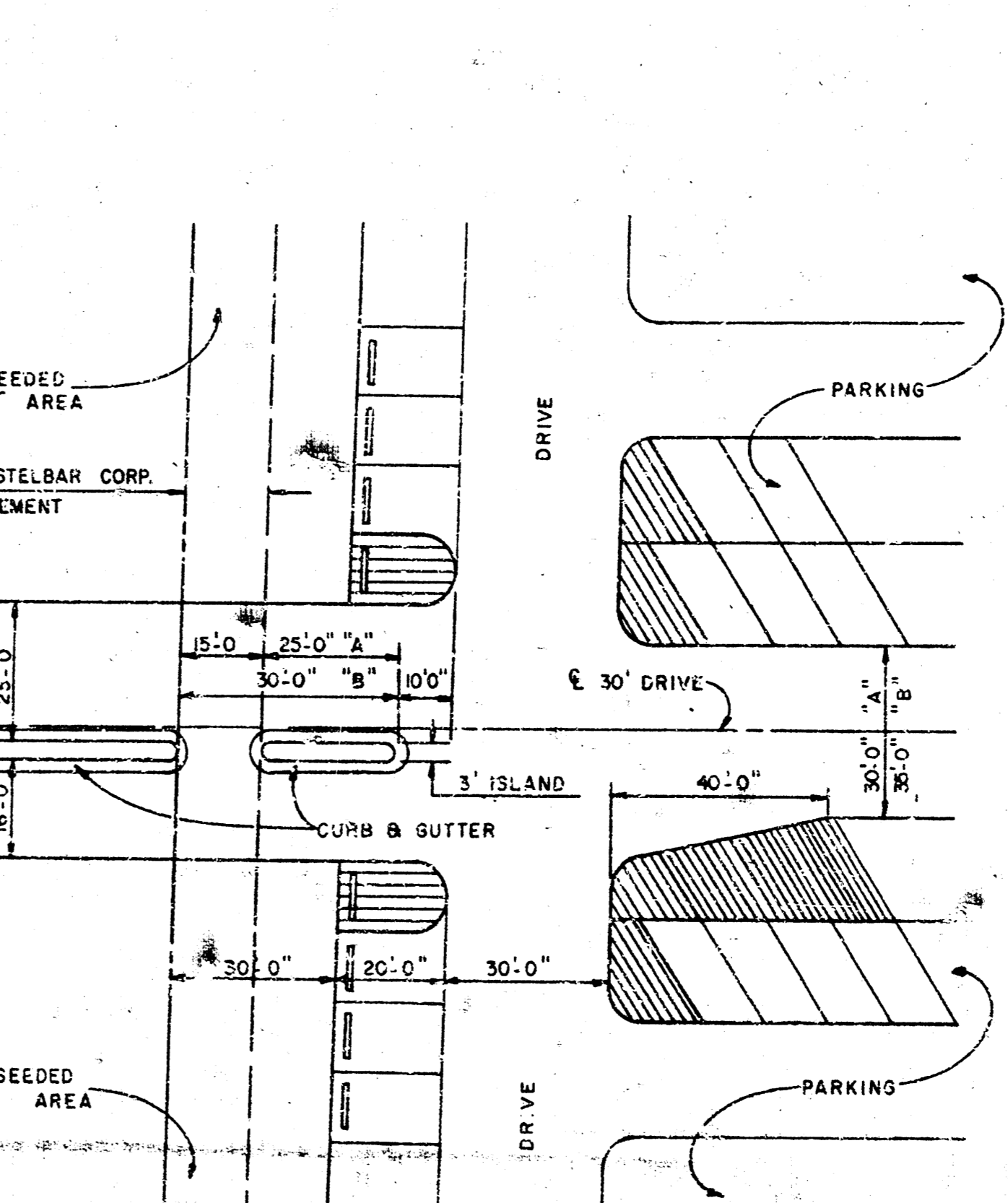


PLAN



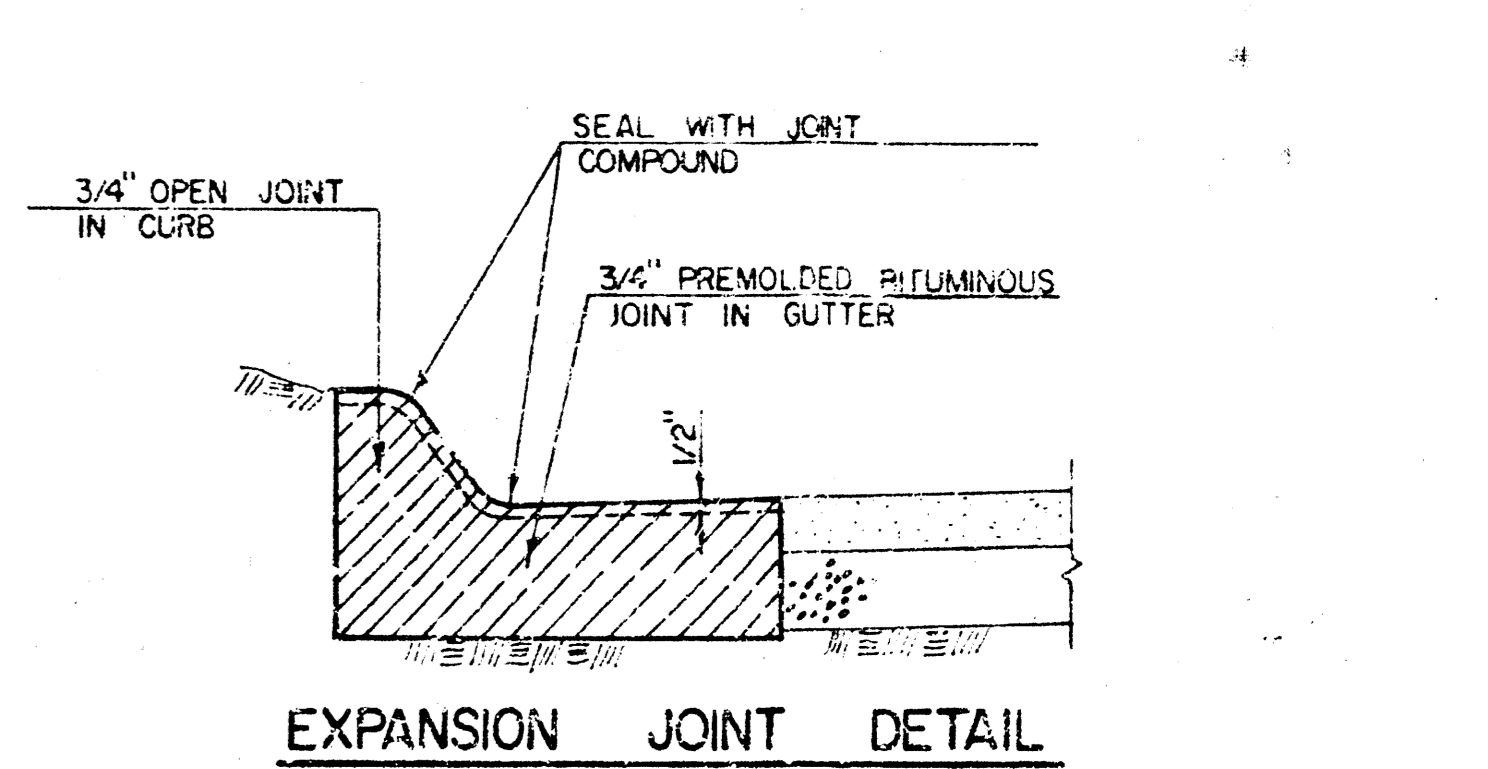
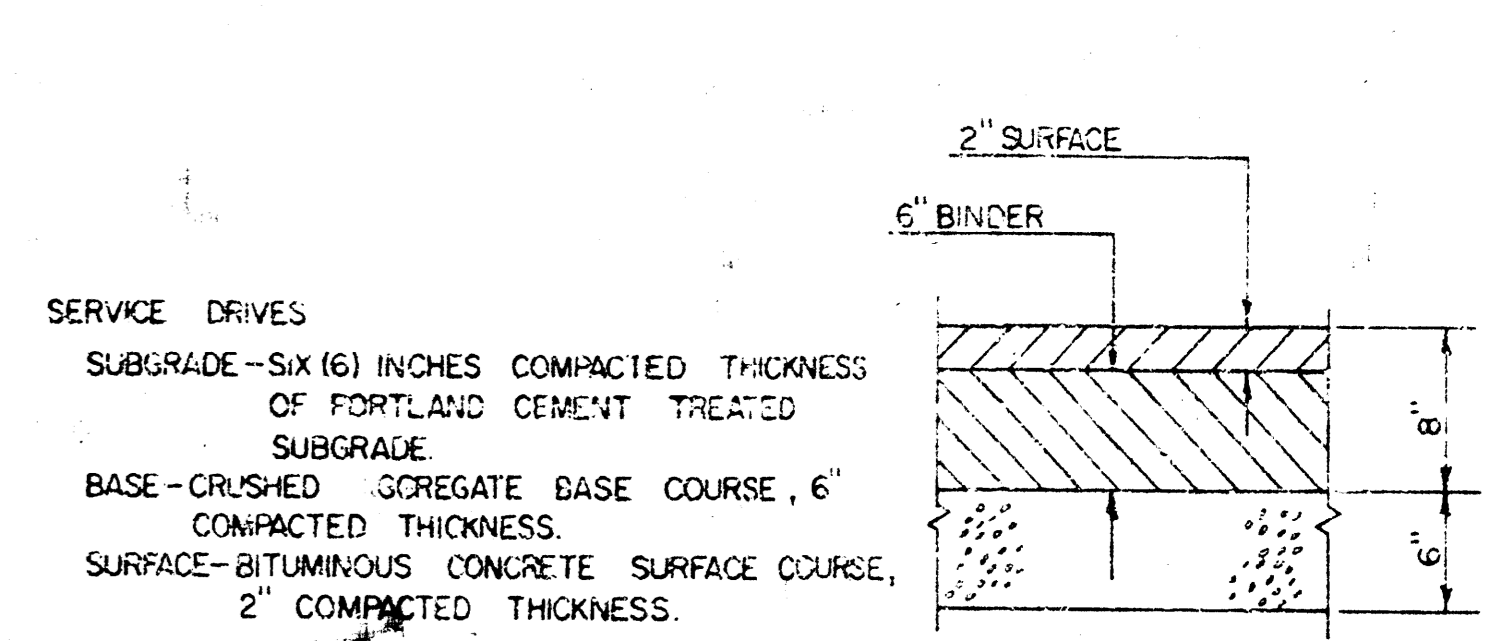
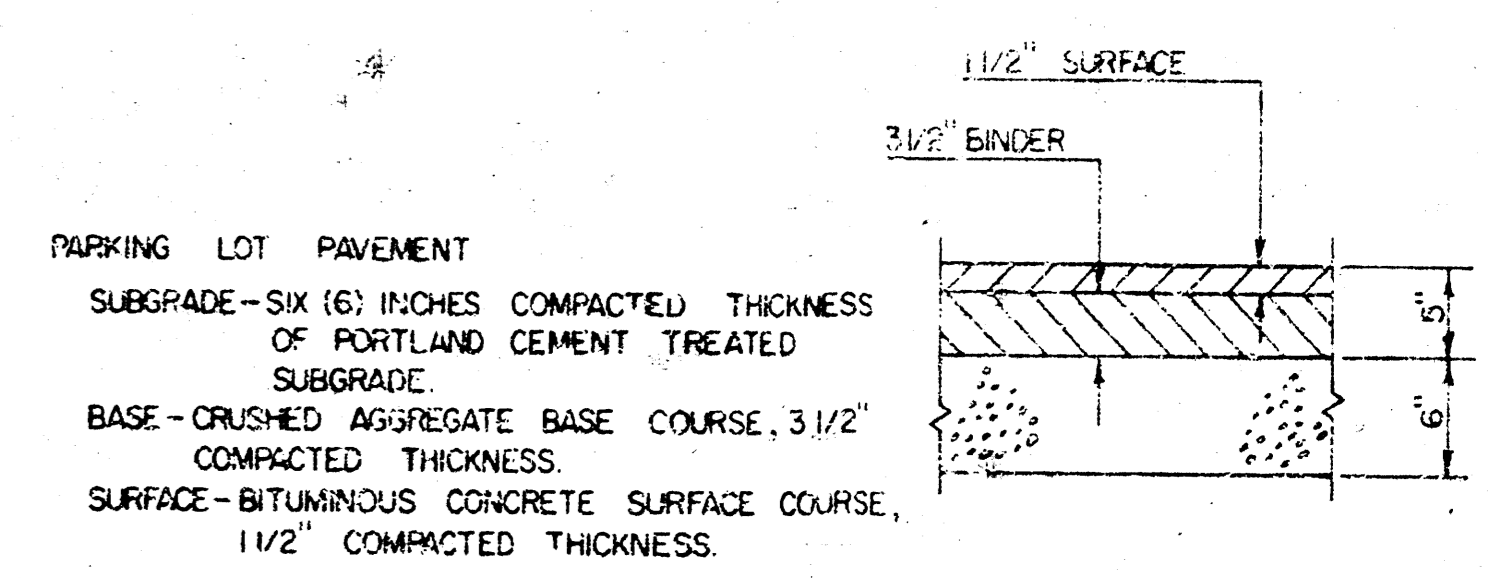
SECTION AREA INLET DETAIL

STORM SEWER SCHEDULE						
ST. NO.	TYPE	TOP ELEV.	FLOWLINE IN	FLOWLINE OUT	PIPE SIZE LENGTH & GRADE	PIPE CLASS & MATERIAL
AI-1	II	83.35		81.1	18" - 40.0' @ .6%	III R.C.P.
AI-2	III	82.85		80.1	24" x 38" - 200' @ .3%	III R.H.E.C.P.
AI-3	II	82.50	79.50	79.16	24" x 38" - 73' @ .375%	III R.H.E.C.P.
AI-4	I	82.50		80.00	18" - 35.0' @ .25%	"
AI-5	I	85.00		83.05	12" - 16.0' @ .5%	"
CI-1		85.20		79.7	12" - 14.0' @ .5%	"
CI-2		84.60	79.00	79.00	12" - 38.0' @ .5%	"
CI-3		85.00	82.20	81.95	18" - 13.0' @ .5%	"
CI-4		85.00	81.31	81.05	21" - 30.3' @ .5%	"
CI-5		81.70		76.94	29" x 45" - 239' @ .45%	III R.H.E.C.P.
MH-1 A or C		84.35	80.86	80.85	21" - 225' @ .5%	III R.C.P.
MH-2		84.33	79.50(N) 79.20(W)	79.00	27" x 42" - 140' @ .45%	III R.H.E.C.P.
MH-3		83.86	78.37(N) 79.12(W)	78.37	27" x 42" - 263' @ .45%	"
MH-4		83.00	77.2(N)	77.00	29" x 45" - 668' @ .45%	"
MH-5		81.00	75.63(W) 77.00(N)	75.63	29" x 45" - 45' @ .45%	"

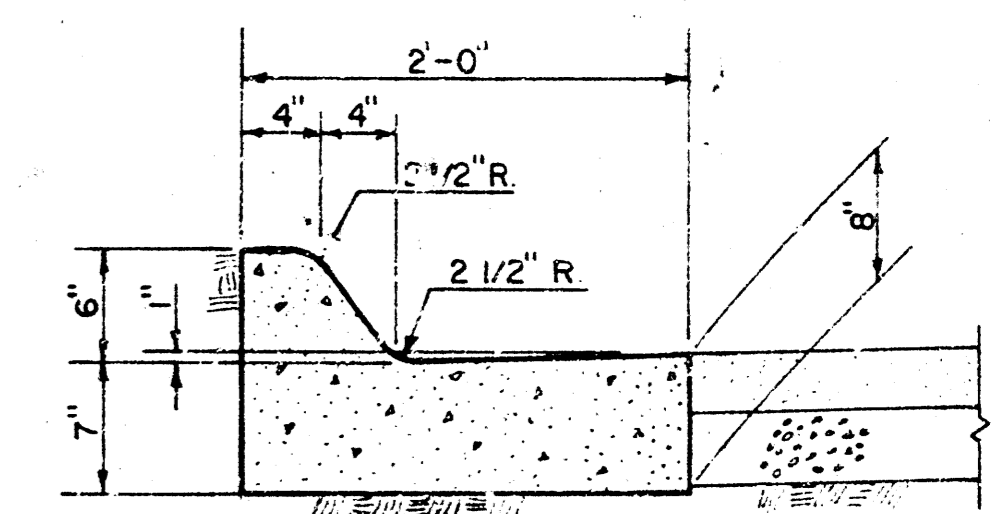


DETAIL-DIVIDED ENTRANCE

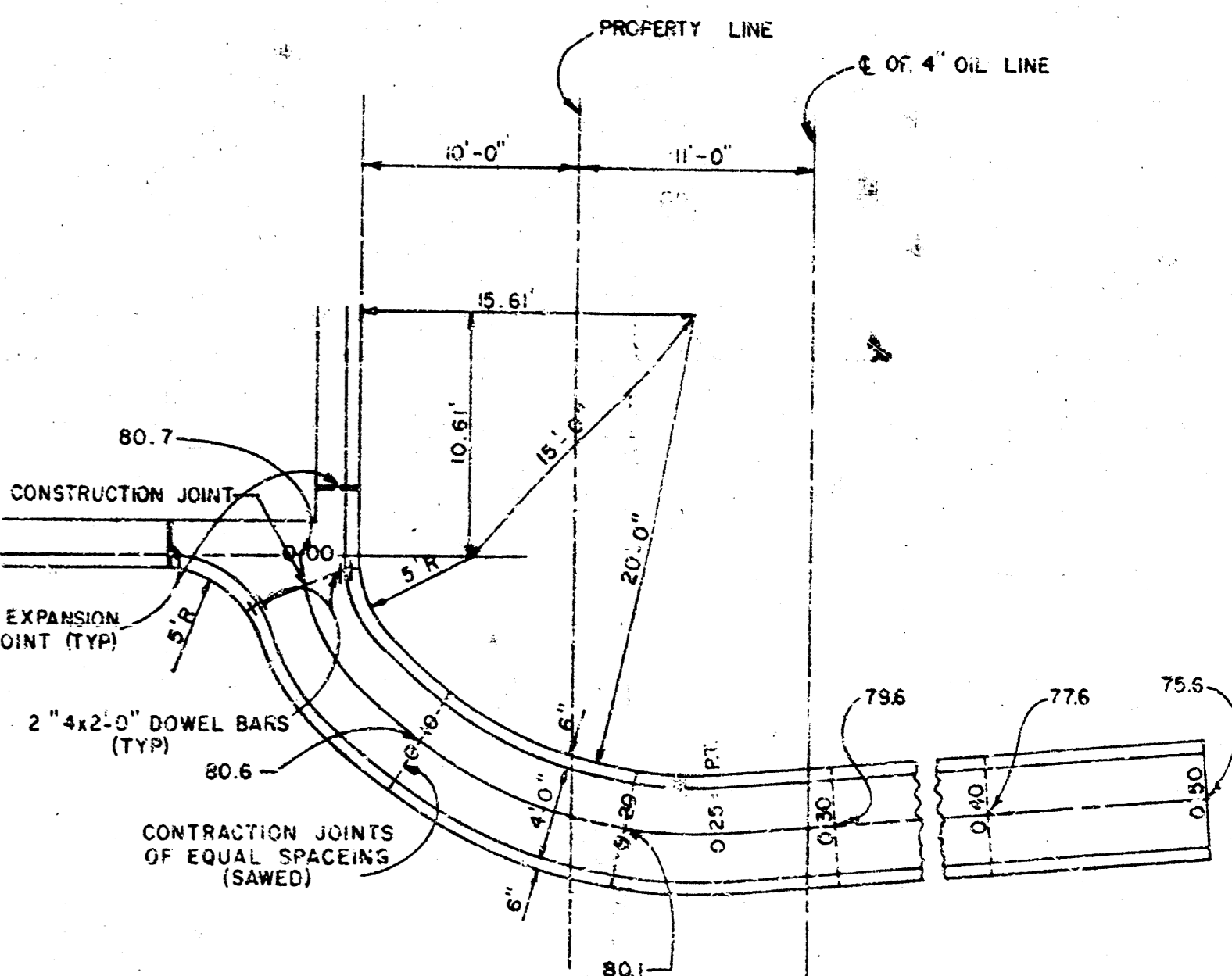
CONC. PAVEMENT PER SPEC. TO DIV. 100.00
6" PORTLAND CEMENT CONG. PAVEMENT
SUBGRADE-SIX (6) INCHES COMPACTED THICKNESS OF PORTLAND CEMENT TREATED SUBGRADE



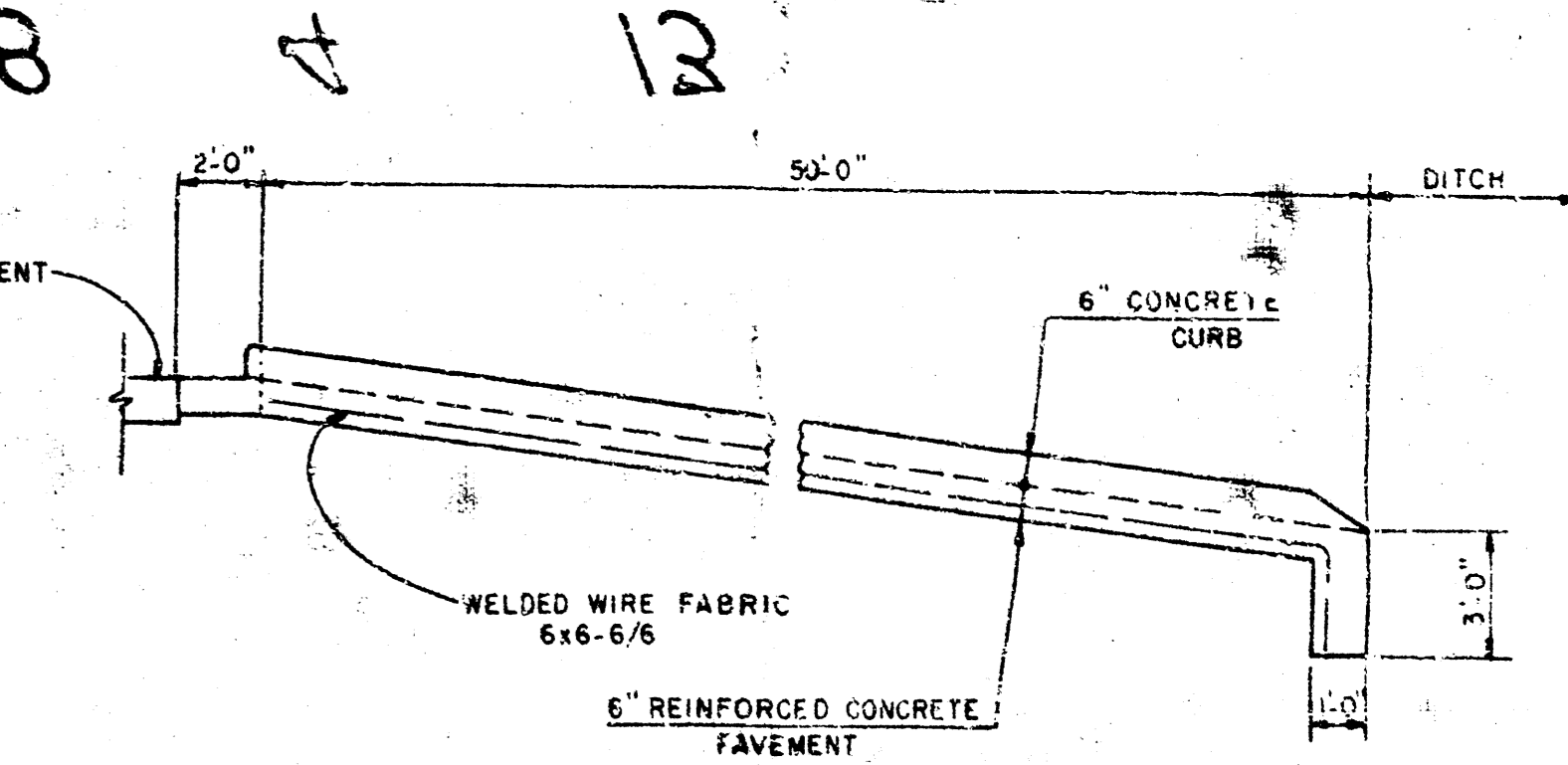
EXPANSION JOINT DETAIL



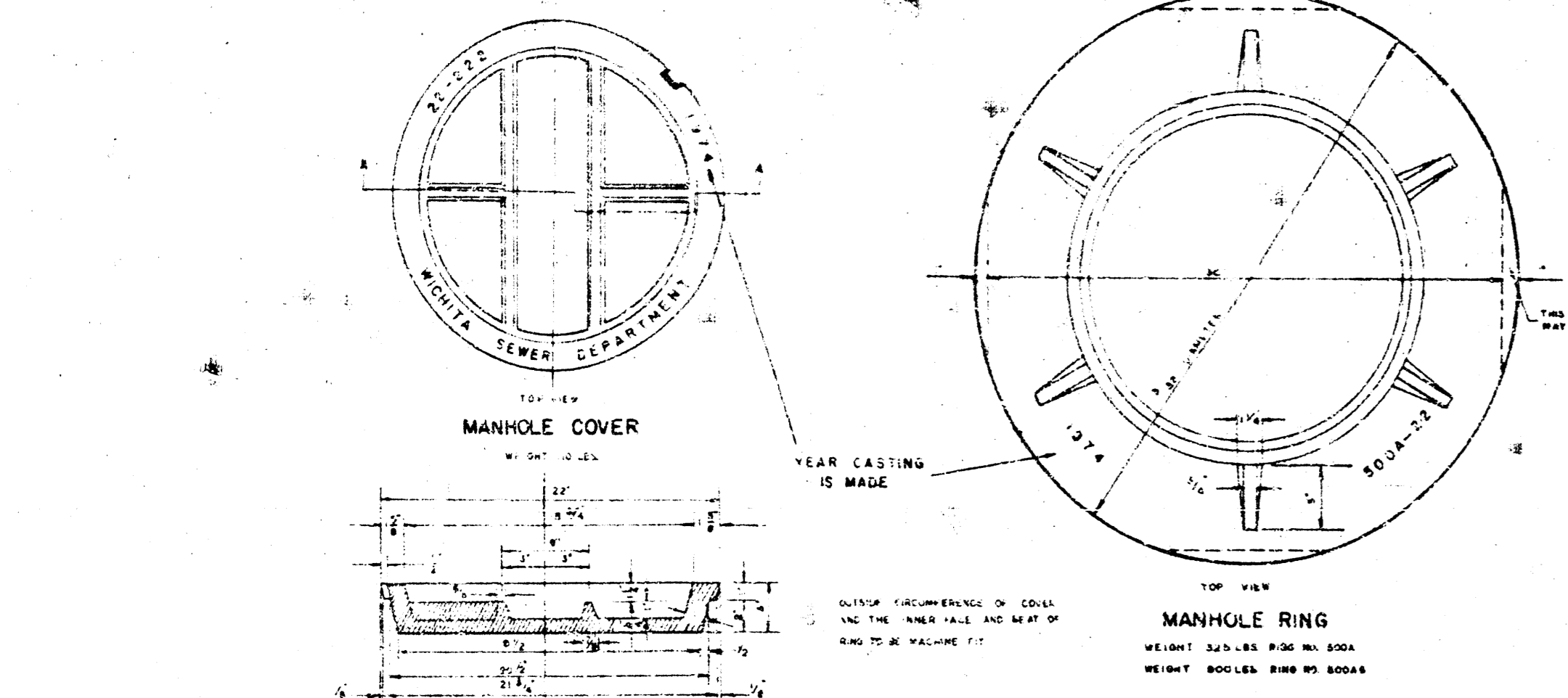
CURB AND GUTTER DETAIL



DETAIL-DRAINAGE FLUME

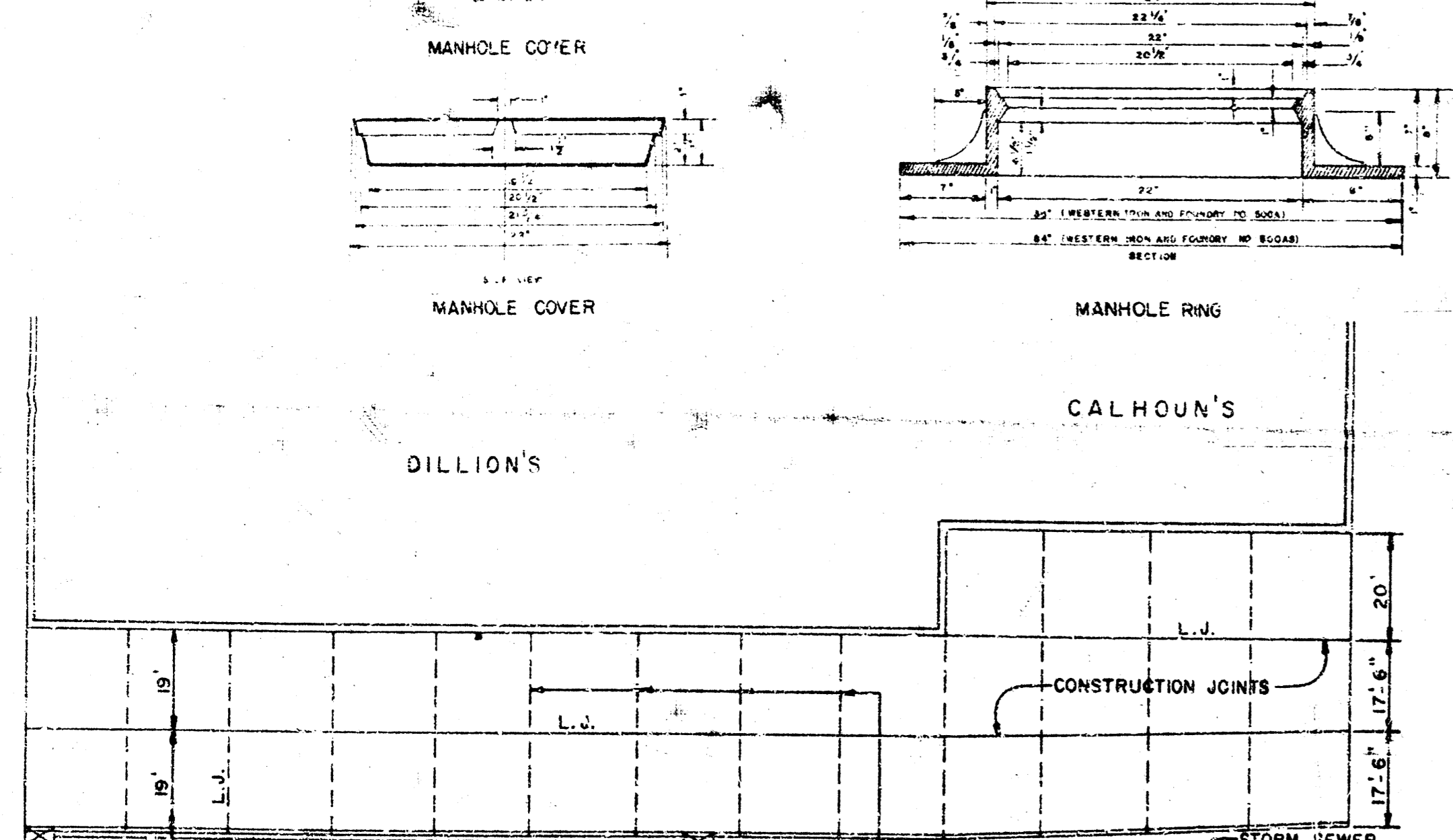


PROFILE-DRAINAGE FLUME



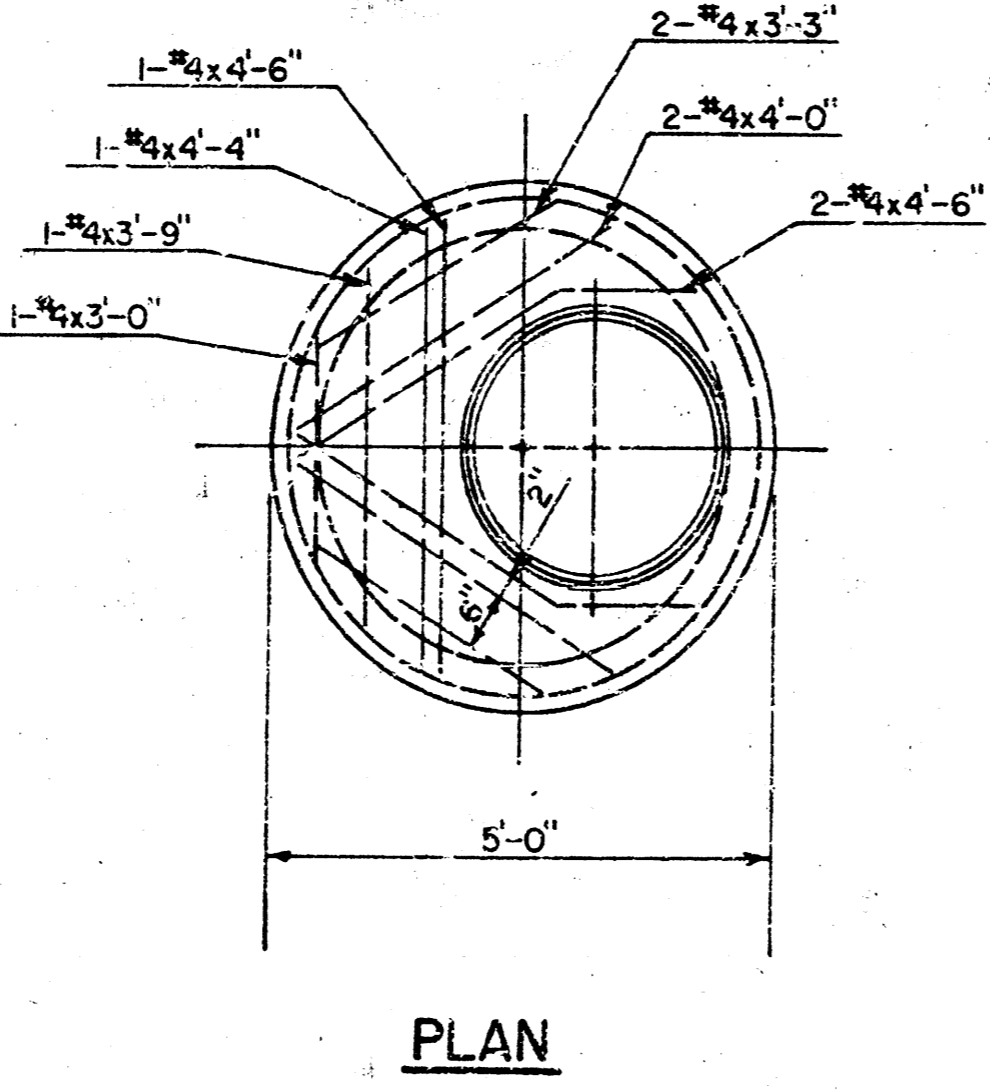
MANHOLE COVER

MANHOLE RING

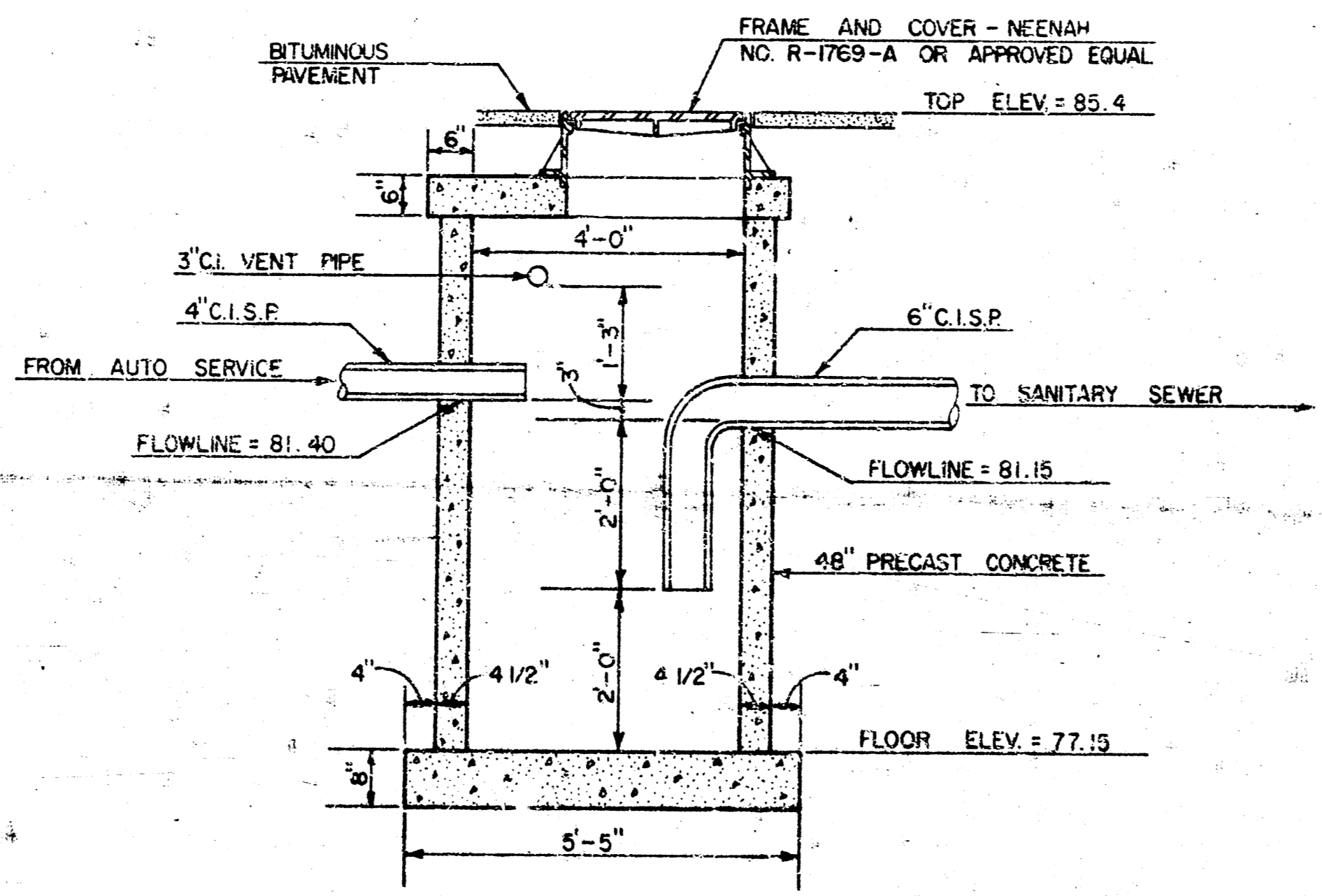


DILLION'S

CALHOUN'S



PLAN



SECTION

Project: ONE-STORY MERCANTILE BUILDING
Architect: W&Y Assoc./Architects/Planners
Date: 1/1/58