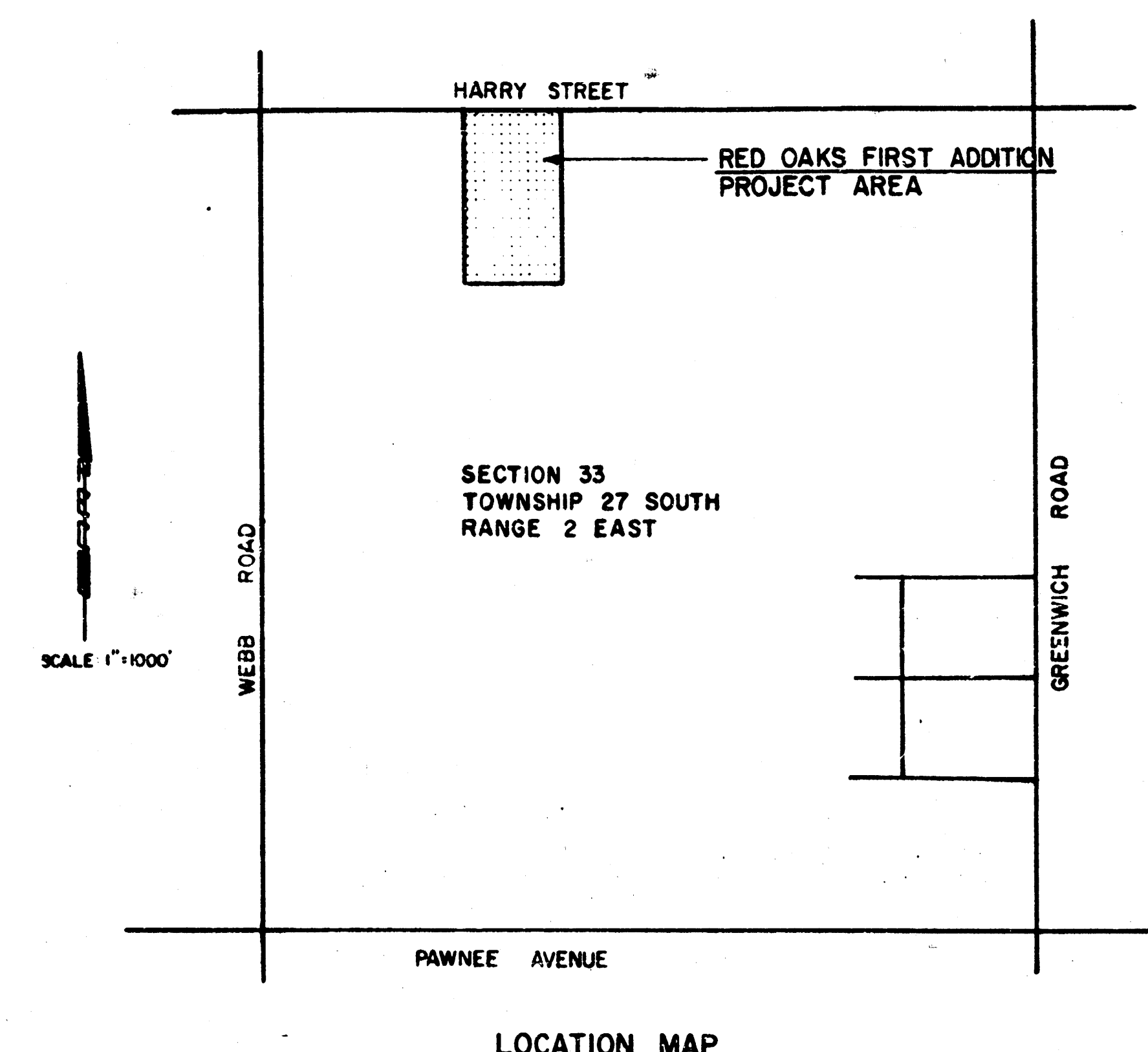
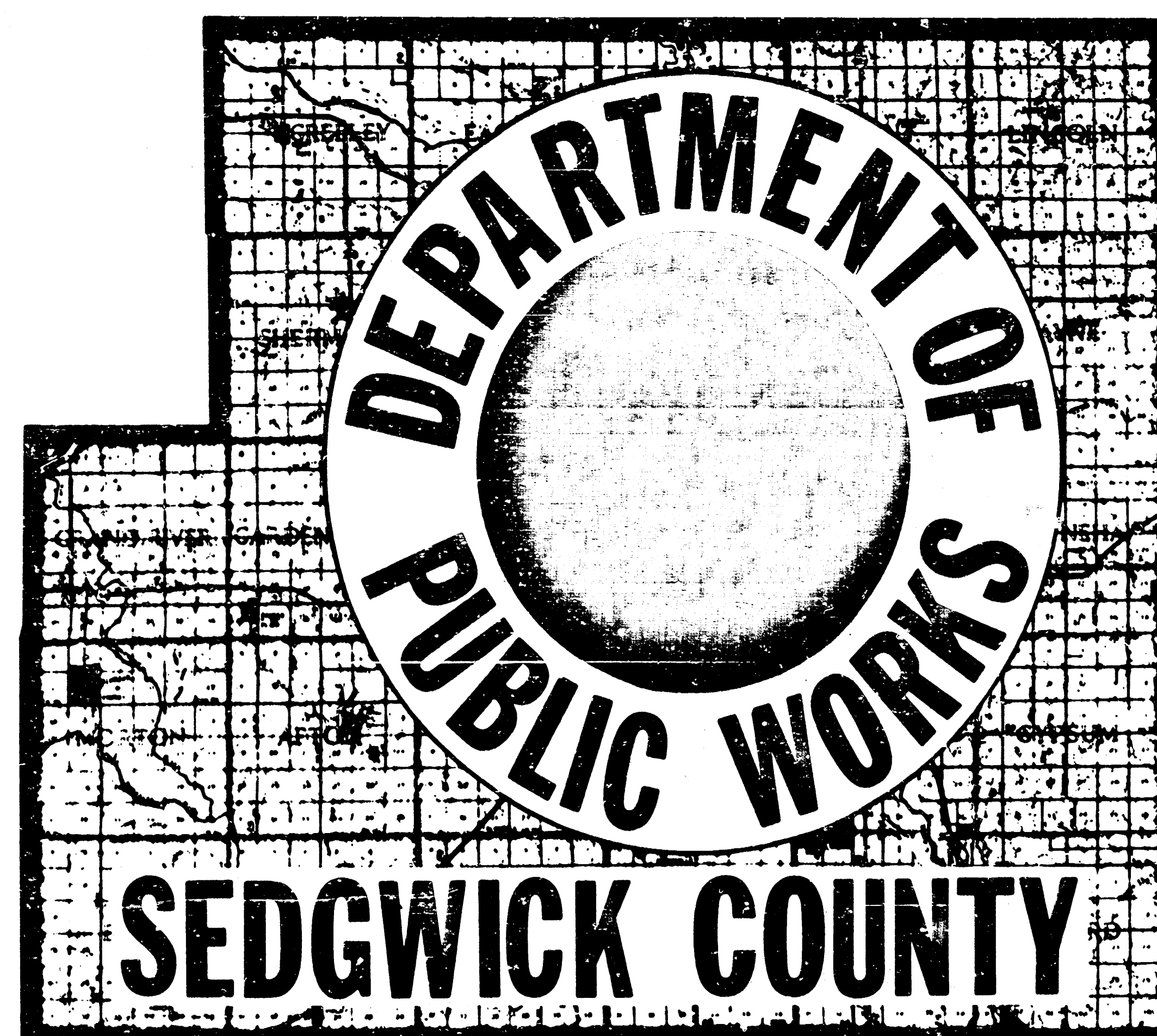


SHEET NO.	TOTAL SHEETS
1	6

INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
SHEET NO. 2	KEY MAP & SCHEDULE
SHEET NO. 3-10	SANITARY SEWER DETAILS
SHEET NO. 11-16	PLAN PROFILES



CONSTRUCTION PLANS FOR

SANITARY SEWER IMPROVEMENTS

IN

PARK MEADOW ESTATES LATERAL SEWER DISTRICT

SEDGWICK COUNTY, KANSAS
PROJECT NO. 30-76496-4-024
NOVEMBER 1978

AS CONSTRUCTED
12/14/78
12/14/78

CONVENTIONAL SIGNS

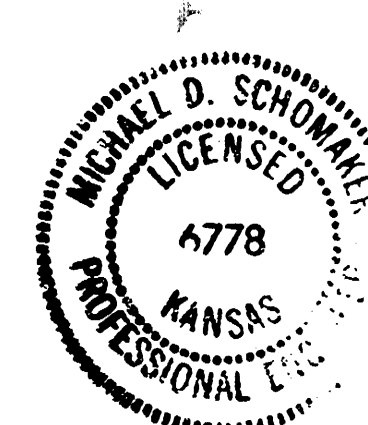
WIRE FENCE	—*—*—*
HEDGE ROW	~~~~~
RAILROADS	+++++
SURVEY LINE	—3—10—
RIGHT OF WAY	—+—+—
TELEPHONE POLE	•
POWER POLE	•
COMB. POWER & TELEPHONE	•
TOWNSHIP LINE	//////
CONSTRUCTION LIMITS	-----
GUARD FENCE	—•—•—•—
TREES	○○

PHASE II-A

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ENGINEERS

WICHITA, KANSAS



APPROVED DATE
Steve Jones 12/15/78
WICHITA SEDGWICK COUNTY
DEPARTMENT OF COMMUNITY HEALTH

APPROVED
R.W. Linn
CITY ENGINEER OF WICHITA, KANSAS
DATE 12/14/78

FILED
FILED IN THE OFFICE OF
THE SEDGWICK COUNTY CLERK
County Clerk DATE

APPROVED
B. M. Linn Jr.
COUNTY ENGINEER/DIRECTOR OF PUBLIC WORKS
DATE 1-17-79

APPROVED 1-18-79 DATE
Chairman
BOARD OF COUNTY COMMISSIONERS

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AVAILABLE COPY

GENERAL NOTES

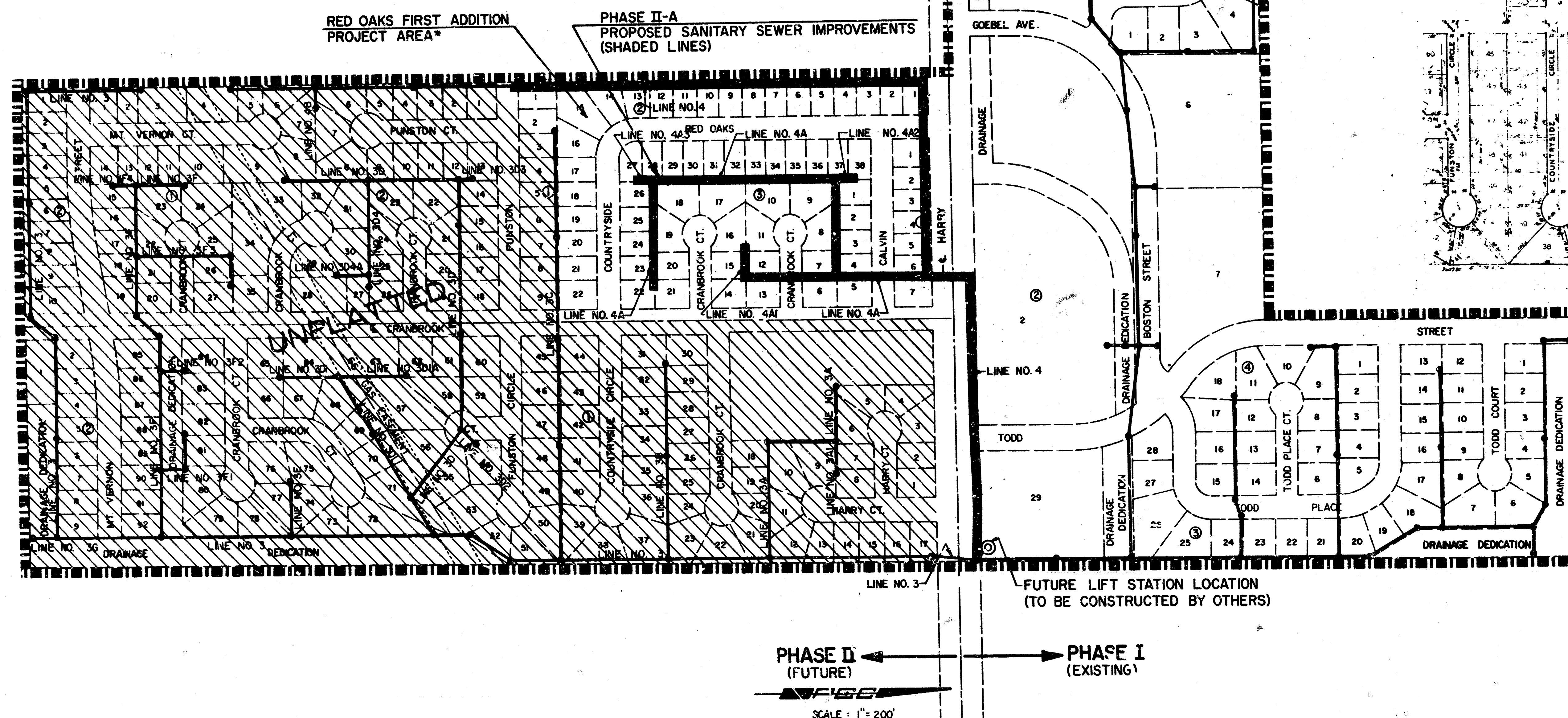
1. THE CONTRACTOR SHALL CONTAIN HIS OPERATIONS TO PERMIT TRAFFIC THROUGH AND ACROSS CONSTRUCTION ON HARRY STREET AT ALL TIMES. THE CONTRACTOR SHALL ERECT WARNING SIGNS, FLASHING LIGHTS, AND BARRICADES TO ENSURE SAFETY AS DIRECTED IN ARTICLE 18 OF THE GENERAL CONDITIONS. THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHTS AND WEEKENDS TO LESS THAN 50 FEET.
2. THE CONTRACTOR WILL BE REQUIRED TO NOTIFY EACH OF THE FOLLOWING UTILITY COMPANIES PRIOR TO THE BEGINNING OF CONSTRUCTION AND SHOULD REQUEST THAT ANY EXISTING LINES BE FLAGGED:
 - KANSAS GAS & ELECTRIC COMPANY
1900 EAST CENTRAL
264-1111 (Ext. 248) JERRY LANE
 - GAS SERVICE COMPANY
1021 EAST 26TH STREET NORTH
263-7511 ENGINEERING DEPARTMENT
 - CITY OF WICHITA WATER DEPARTMENT
455 NORTH MAIN
268-4557 BENNY GEGEN
 - SOUTHWESTERN BELL TELEPHONE COMPANY
154 NORTH BROADWAY
262-5500
3. THE CONTRACTOR MUST ALSO NOTIFY THE TELEPHONE COMPANY 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK NEAR BURIED TELEPHONE LINES.
4. WHERE REMOVAL OF EXISTING FENCES PARALLEL TO THE CONSTRUCTION IS DEEMED NECESSARY BY THE CONTRACTOR, THE CONTRACTOR SHALL COORDINATE REMOVAL WITH ADJACENT PROPERTY OWNERS. ALL REMOVAL AND RESETTling OF FENCES WILL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED SUBSIDIARY TO THE INSTALLATION OF THE PIPE.
5. ALL BACKFILL SHALL BE TYPE I BACKFILL (SEE SPECS) UNLESS OTHERWISE NOTED.
6. UNPLATTED UTILITY EASEMENTS AND TEMPORARY CONSTRUCTION EASEMENTS WERE OBTAINED BY SEPARATE INSTRUMENT TO PROVIDE FOR THE CONSTRUCTION AND MAINTENANCE FOR SOME OF THE SEWER LINES IN THIS PROJECT. COPIES OF THESE EASEMENTS MAY BE OBTAINED FROM THE ENGINEER OR THE SEDGWICK COUNTY REGISTER OF DEEDS. THESE EASEMENTS ARE REFERRED TO AS FOLLOWS:

BENCH MARK LIST

- B.M. #1 CHISELED SQUARE ON N.W. COR., R.C.B. APPROX. 1600'E. OF THE CENTERLINE OF WEBB ROAD AND HARRY STREET. ELEV.=1351.42 (MSL)
- B.M. #2 TOP IRON PIPE AT THE N.E. COR., LOT 7, BLK. 1, RED OAKS 1ST ADDITION TO SEDGWICK COUNTY, KANSAS. ELEV.=1351.30 (MSL)
- B.M. #3 SPIKE STEP IN POWER POLE ON THE S. SIDE OF HARRY STREET AT THE E. LINE OF PARK MEADOW ESTATES. ELEV.=1344.65 (MSL)
- B.M. #4 P.R. SPIKE IN A ROOT AT THE E. SIDE OF A 60" HEDGE TREE 40' E. OF THE S.E. COR. OF THE N.E. 1/4 OF THE N.W. 1/4 OF SEC. 33, T27S, R2E, OF THE 6TH P.M. ELEV.=1348.02 (MSL)
- B.M. #5 TOP 3/4" IRON PIPE AT THE S.W. COR. RED OAKS 1ST ADDITION. ELEV.=1357.63 (MSL)
- B.M. #6 TOP IRON PIPE AT THE S.E. COR., LOT 22, BLK. 2, RED OAKS 1ST ADDITION. ELEV.=1361.35 (MSL)

SEWER LINE SCHEDULE	
LINE NO.	SHEET NO.
3	5
4	5
4A	6
4A-1	6
4A-2	6
4A-3	6

RED OAKS FIRST ADDITION TO SEDGWICK COUNTY, KANSAS



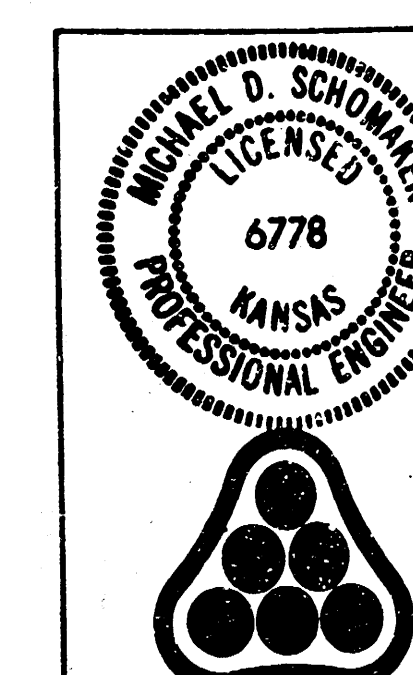
* LOTS 16 THRU 22, BLOCK 2 IN RED OAKS FIRST ADDITION, NOT SERVICED BY SEWER LINES CONSTRUCTED BY THIS PROJECT.

The area west of Cranbrook is currently not platted as shown. However, Easements equal to those shown have been obtained by the Sedgwick Co. Dept. of Public Works.

LEGEND

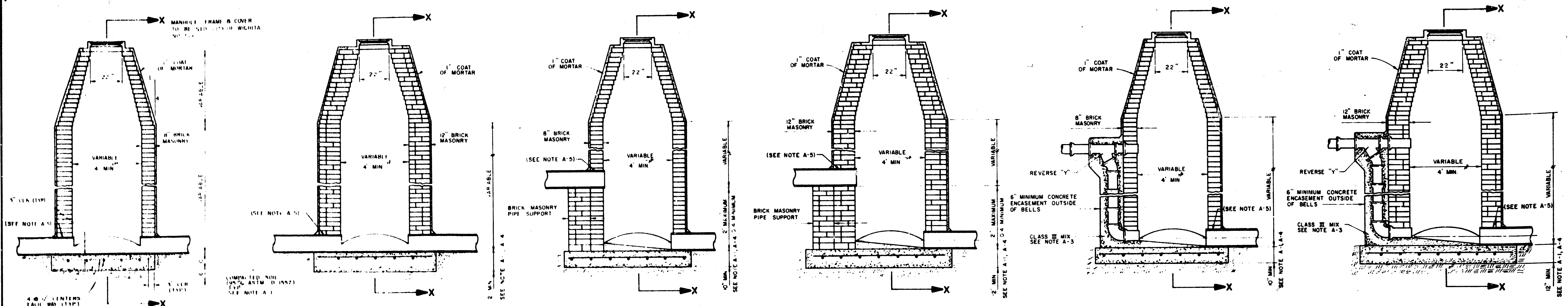
- PROPOSED IMPROVEMENTS
- PARK MEADOWS ESTATES LATERAL SEWER DISTRICT BOUNDARY
- UNPLATTED AREA AS SHOWN

AS CONSTRUCTED
DATE: 11/2/78
BY: [Signature]



No.	Revision	By	Date
1	SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS G.C. McLURE, JR., P.E. DIRECTOR & COUNTY ENGINEER		
KEY MAP & SCHEDULE			
SANITARY SEWER IMPROVEMENTS PARK MEADOW ESTATES LATERAL SEWER DISTRICT, SEDGWICK COUNTY, KANSAS			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
Designed by MDS	Job No. 7649G	Sht. 2	of 6
Drawn by T.S., R.F.J.	Date Nov., 1978		

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STANDARD MANHOLE
TYPE A

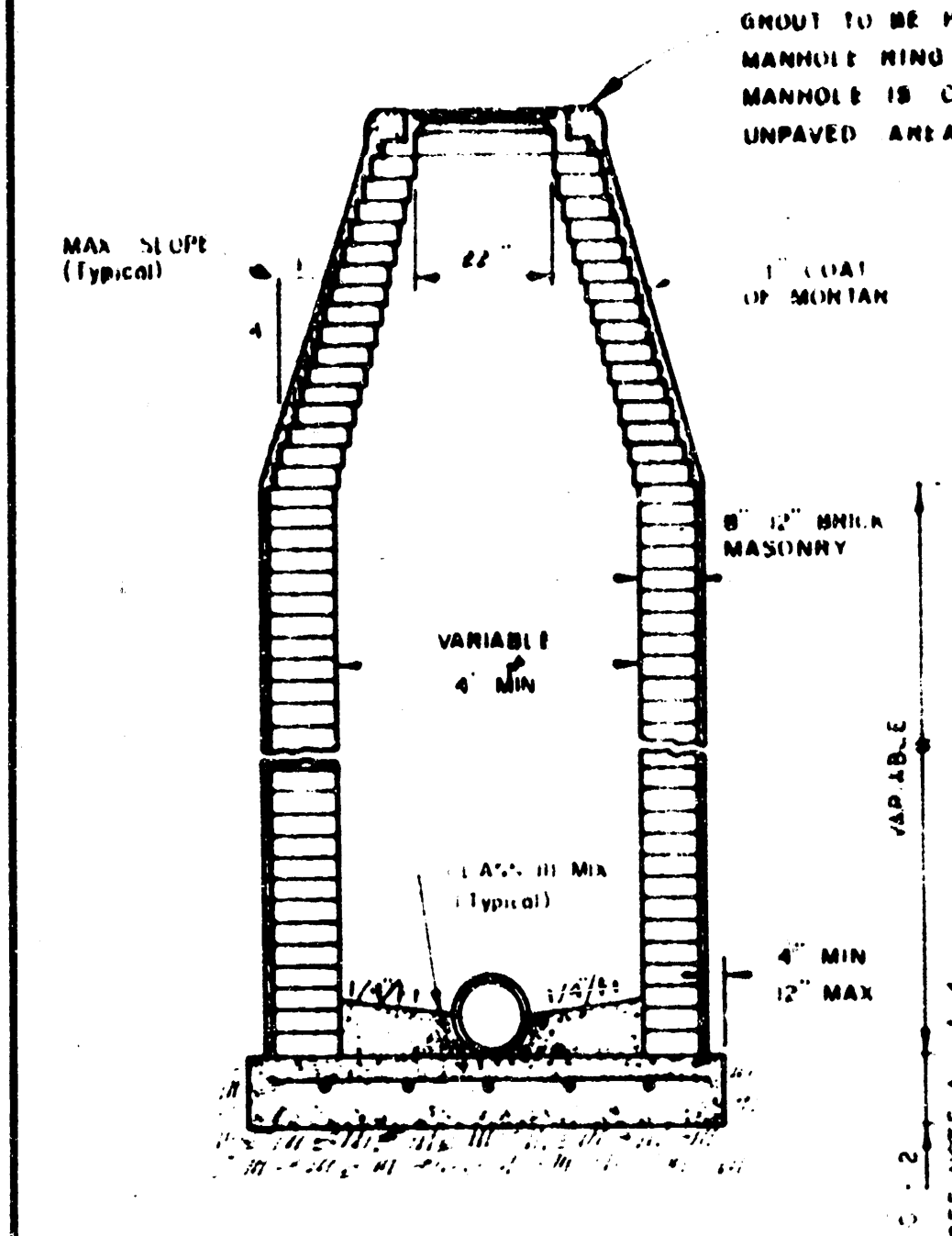
STANDARD MANHOLE
TYPE AA

DROP MANHOLE
TYPE B

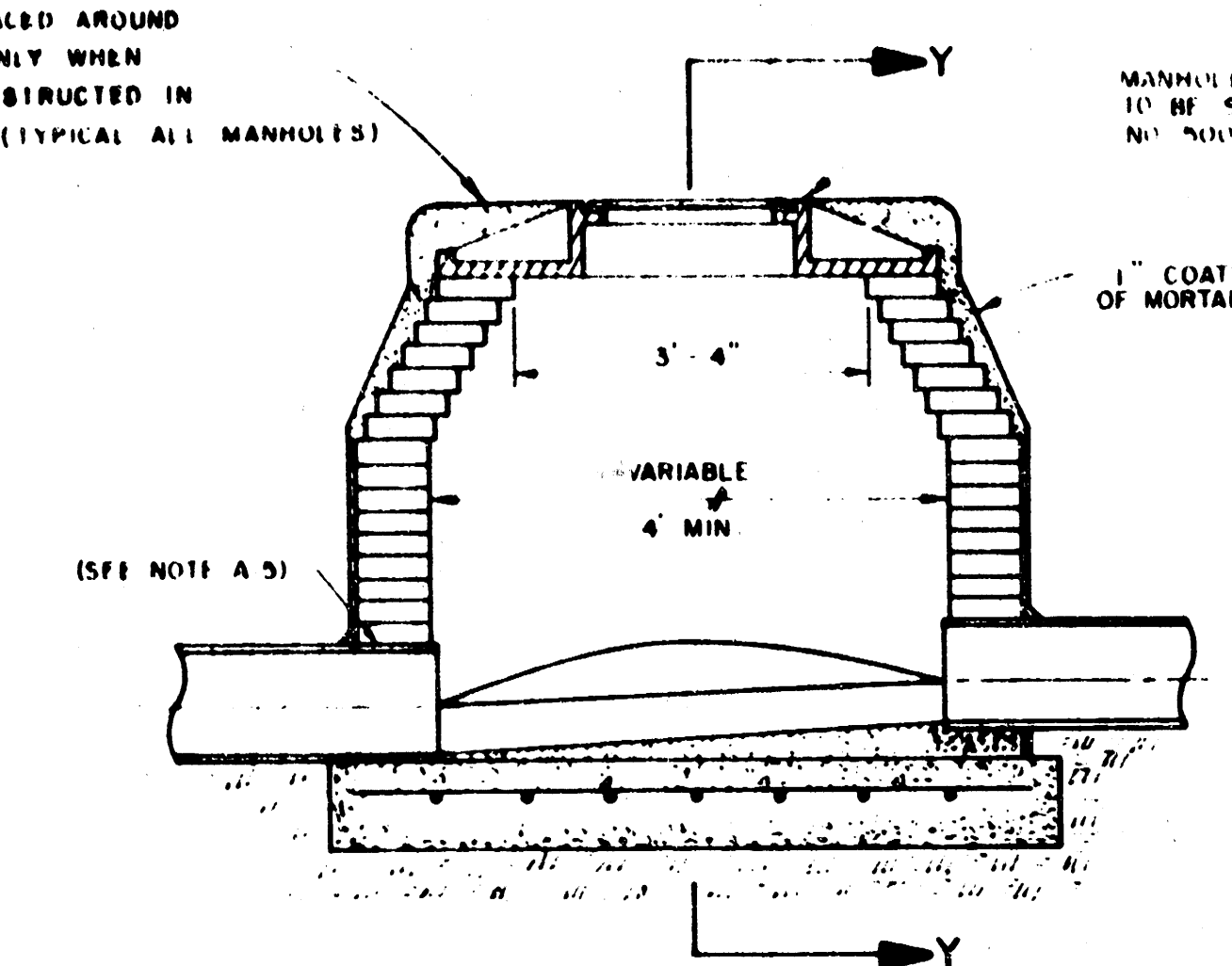
DROP MANHOLE
TYPE BB

OUTSIDE DROP MANHOLE
TYPE C

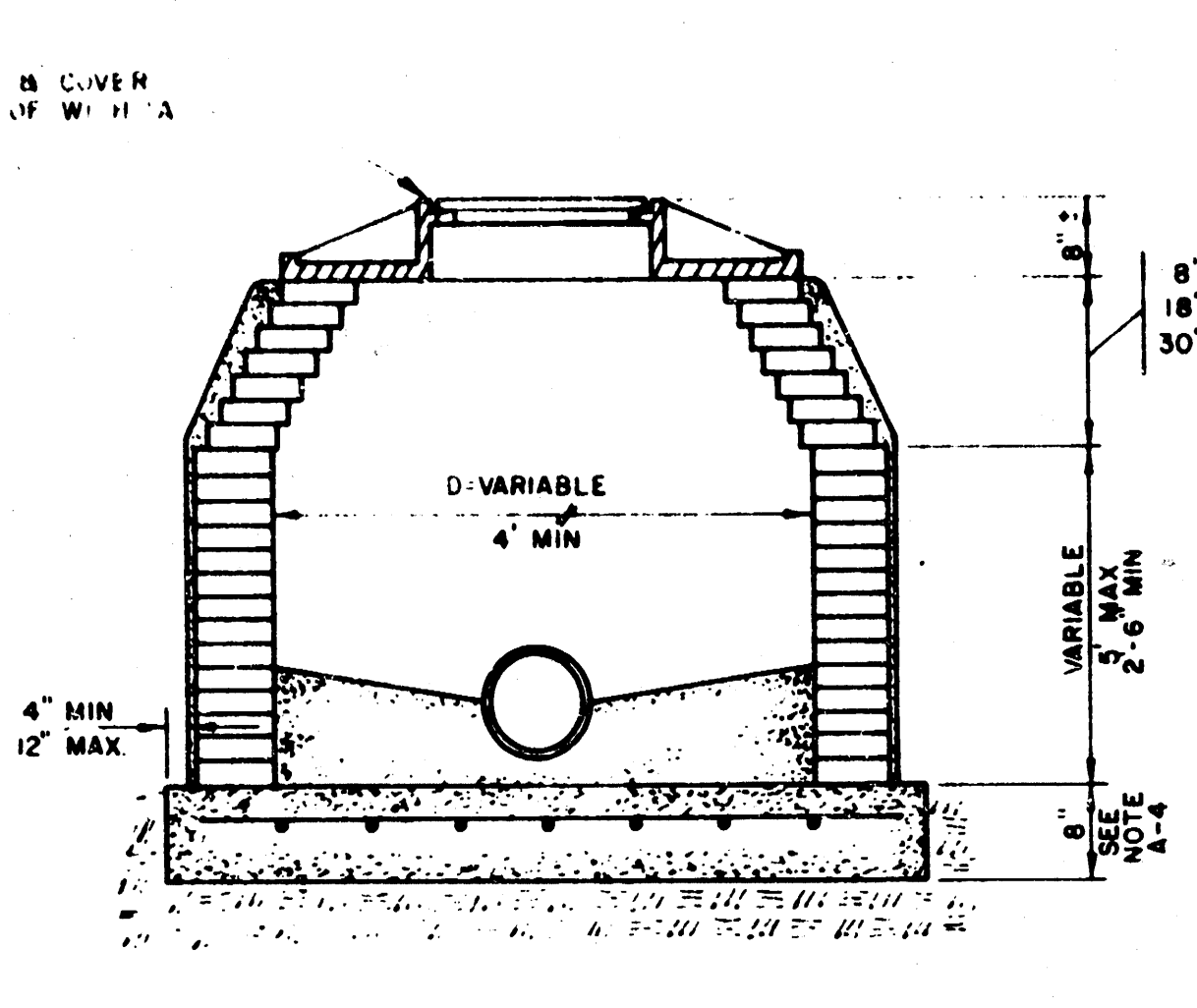
OUTSIDE DROP MANHOLE
TYPE CC



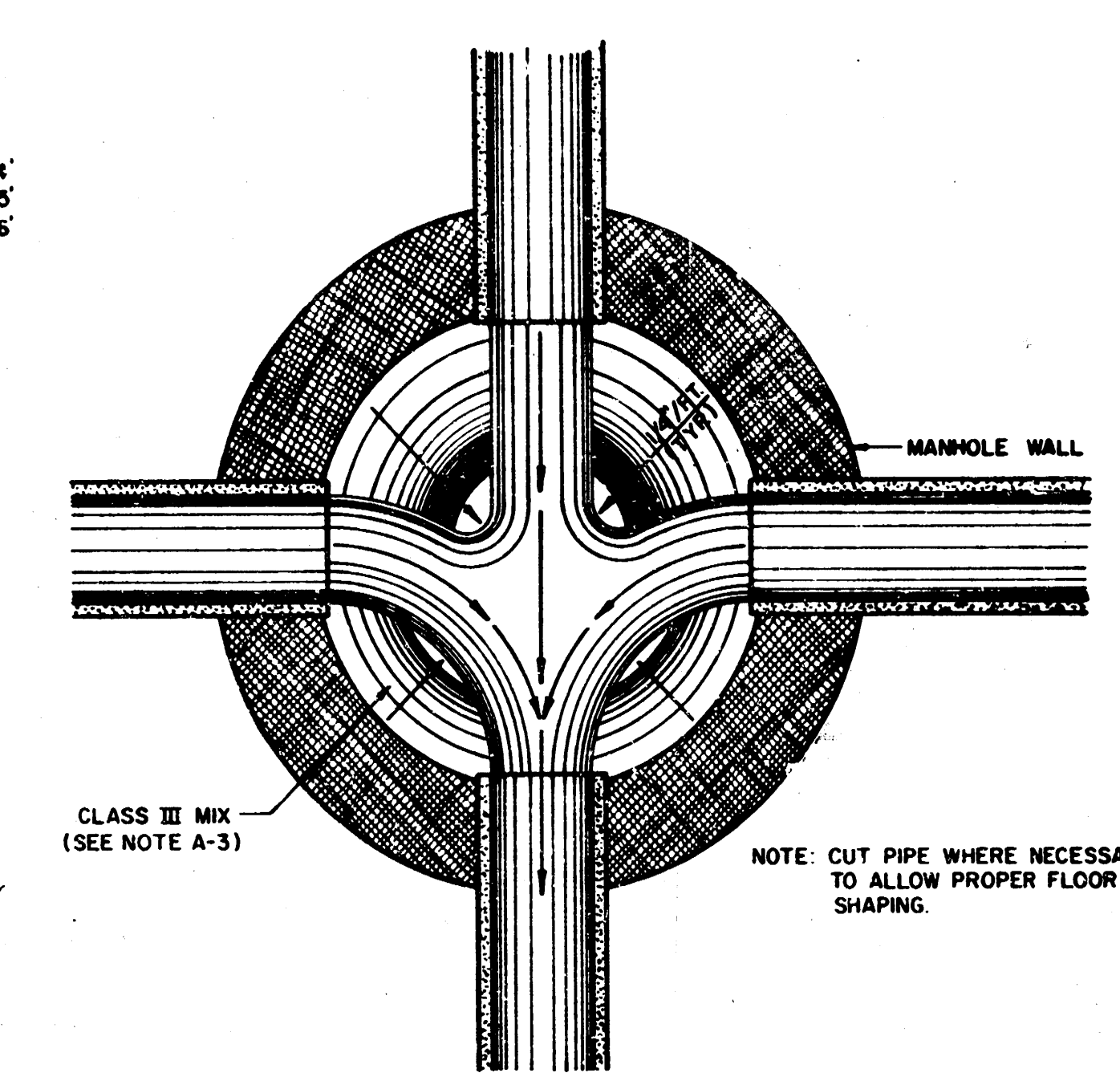
SECTION X



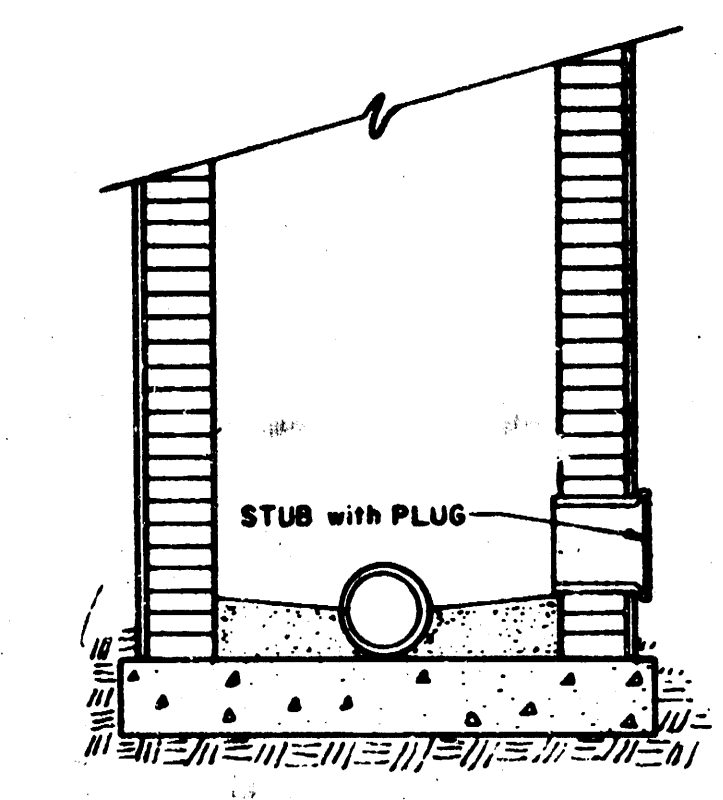
SHALLOW MANHOLE
TYPE D



SECTION Y

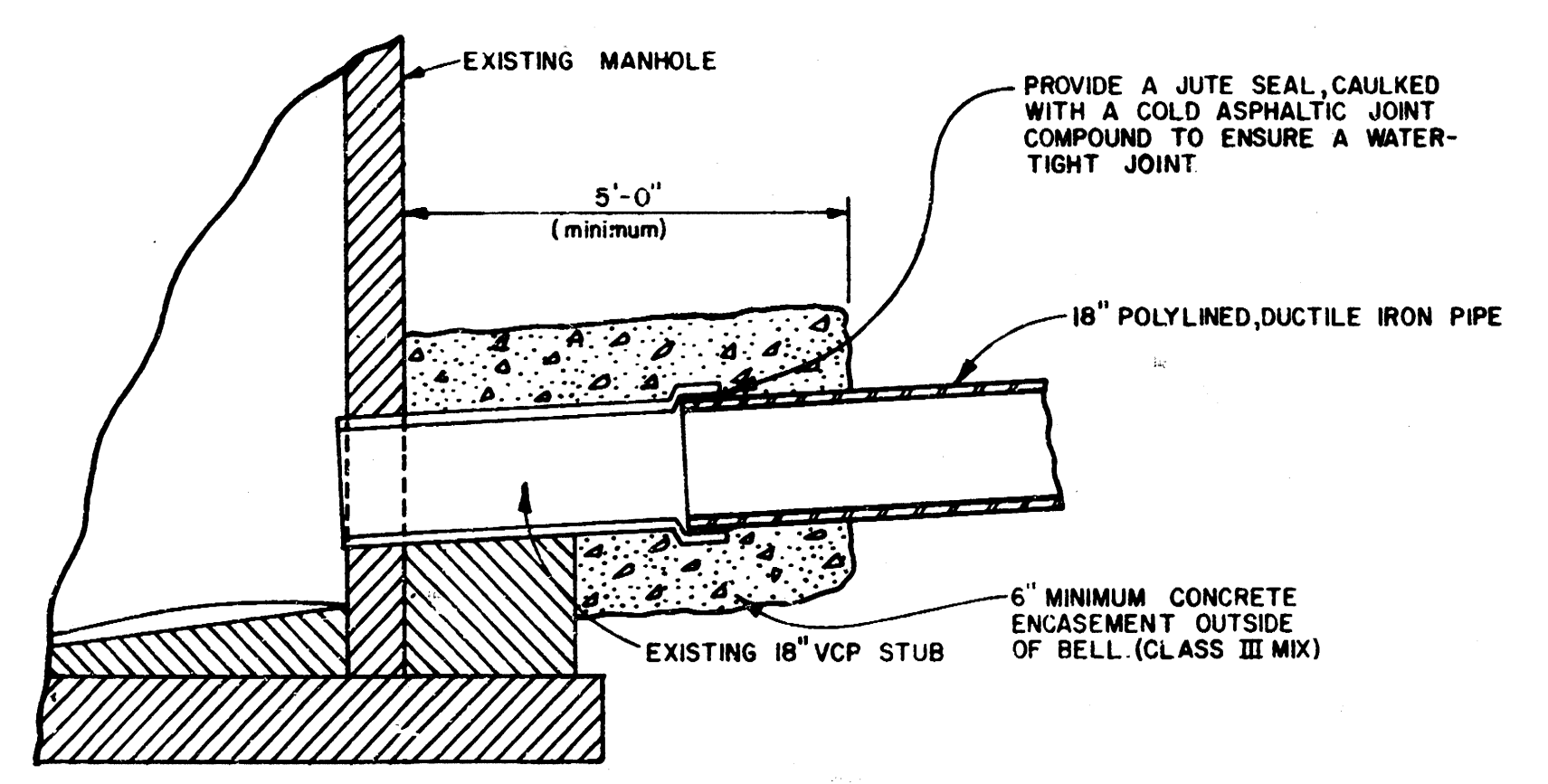


TYPICAL MANHOLE
FLOOR SHAPING

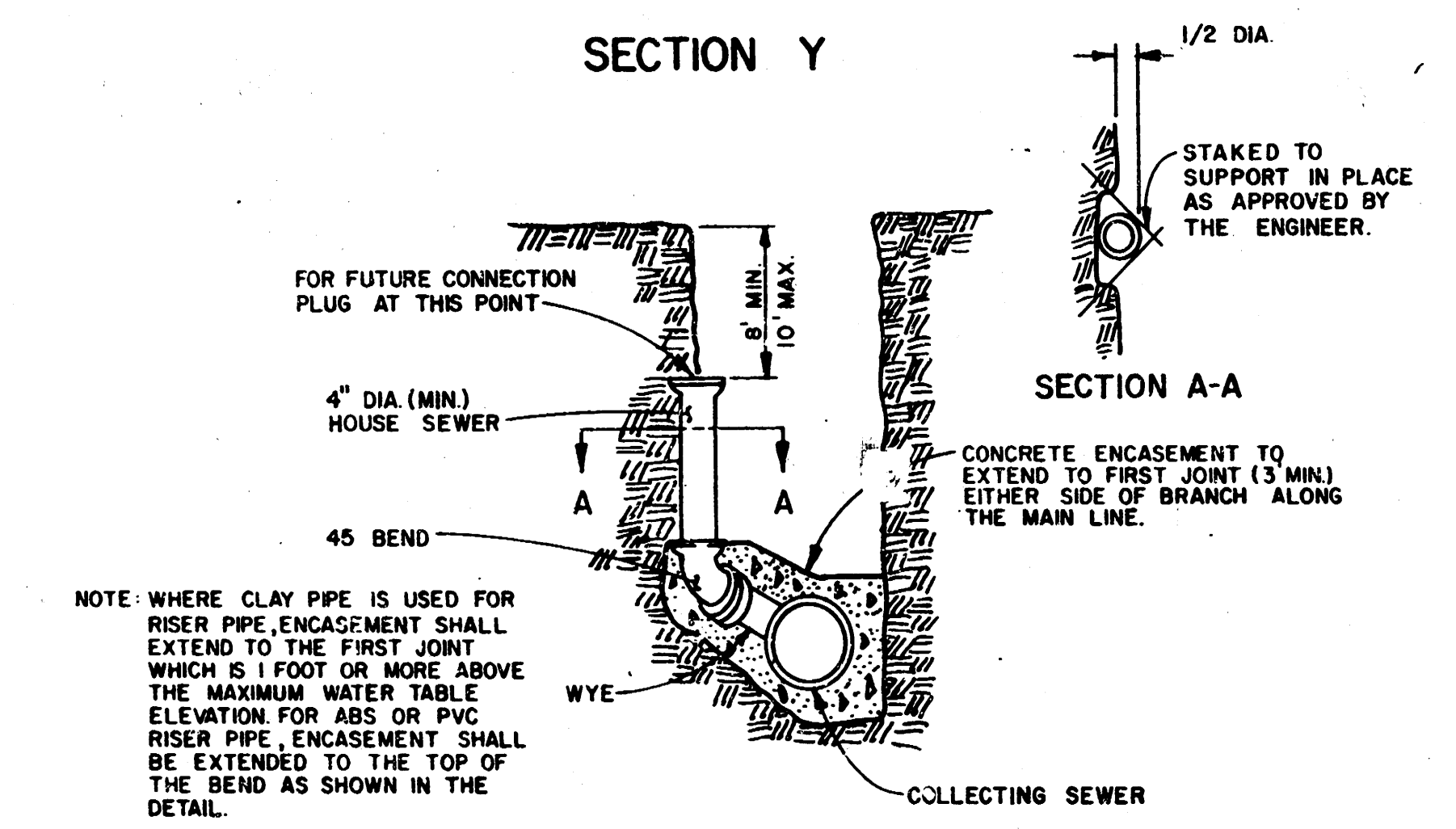


STUB DETAIL

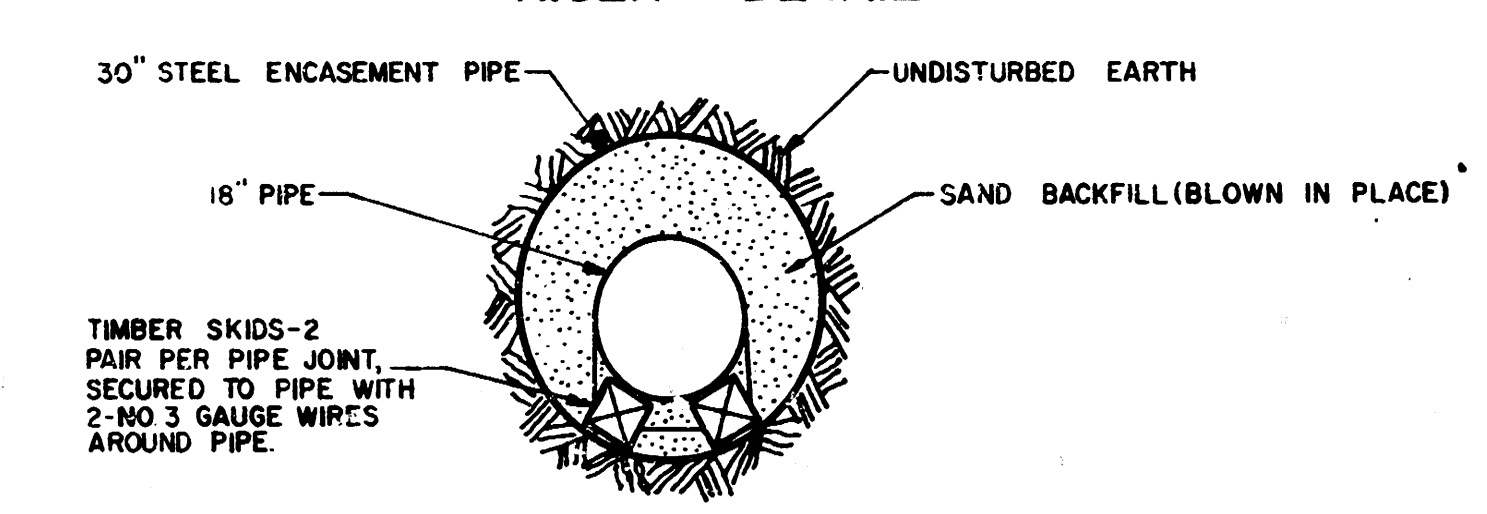
- NOTES**
1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR HAS THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
 2. STEEL REINFORCING IS REQUIRED IN ALL MANHOLE BASES.
 3. MORTAR USED IN MASONRY CONSTRUCTION TO BE CLASS III MIX.
 4. ALL MANHOLE BASES TO BE CLASS I MIX.
 5. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S., COMPOSITE PIPE, POLYETHYLENE PIPE, OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE TO THE FIRST JOINT OF PIPE FROM THE MANHOLE WALL. CONCRETE SUPPORTS MAY BE DELETED PROVIDED AN APPROVED FLEXIBLE WATERSTOP GASKET IS INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL.
 6. PIPE PLUGS SHALL BE AS MANUFACTURED BY PIPE SUPPLIER WHEN AVAILABLE.
 7. ALL PIPES SHALL BE CUT FLUSH WITH MANHOLE WALL.



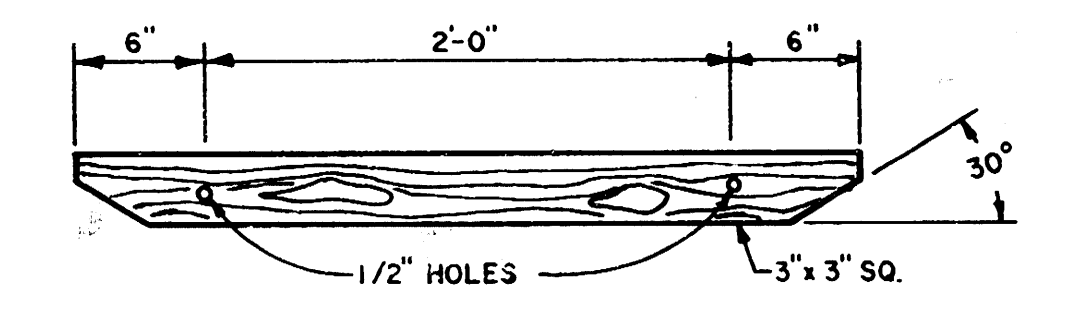
SPECIAL JOINTING DETAIL



RISER DETAIL



BORING ENCASEMENT DETAIL



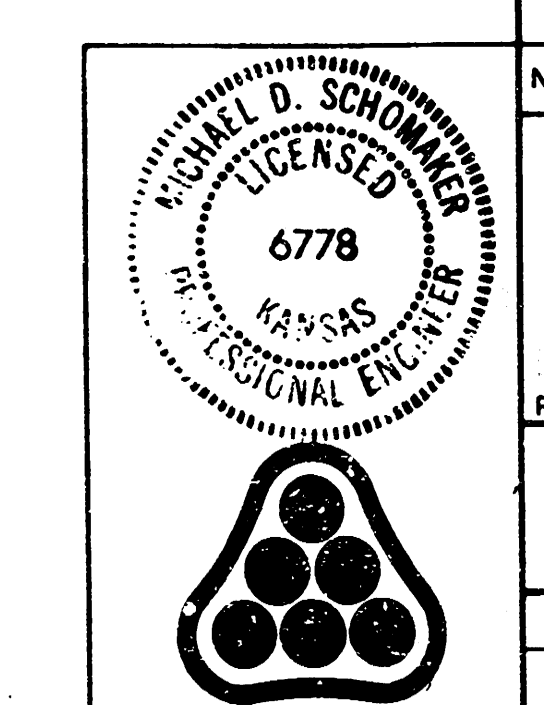
TIMBER SKID DETAIL

WYE NO.	LOCATION			PIPE RISER (L.F.)	DISTANCE FROM MANHOLE*	
	LINE NO.	STATION	DIRECTION		UPSTREAM	DOWNSTREAM
1	4	6+50	LEFT	5		
2	4	8+27	LEFT	5		
3	4	8+87	LEFT	4		
4	4	12+44	LEFT	4		
5	4	14+40	LEFT	4		
6	4	6+10	LEFT	5		
7	4	16+70	LEFT	5		
8	4	16+37	LEFT	5		
9	4	17+07	LEFT	5		
10	4	17+72	LEFT	5		
11	4	18+37	LEFT	4		
12	4	18+00	LEFT	4		

RISER LOCATION TABLE

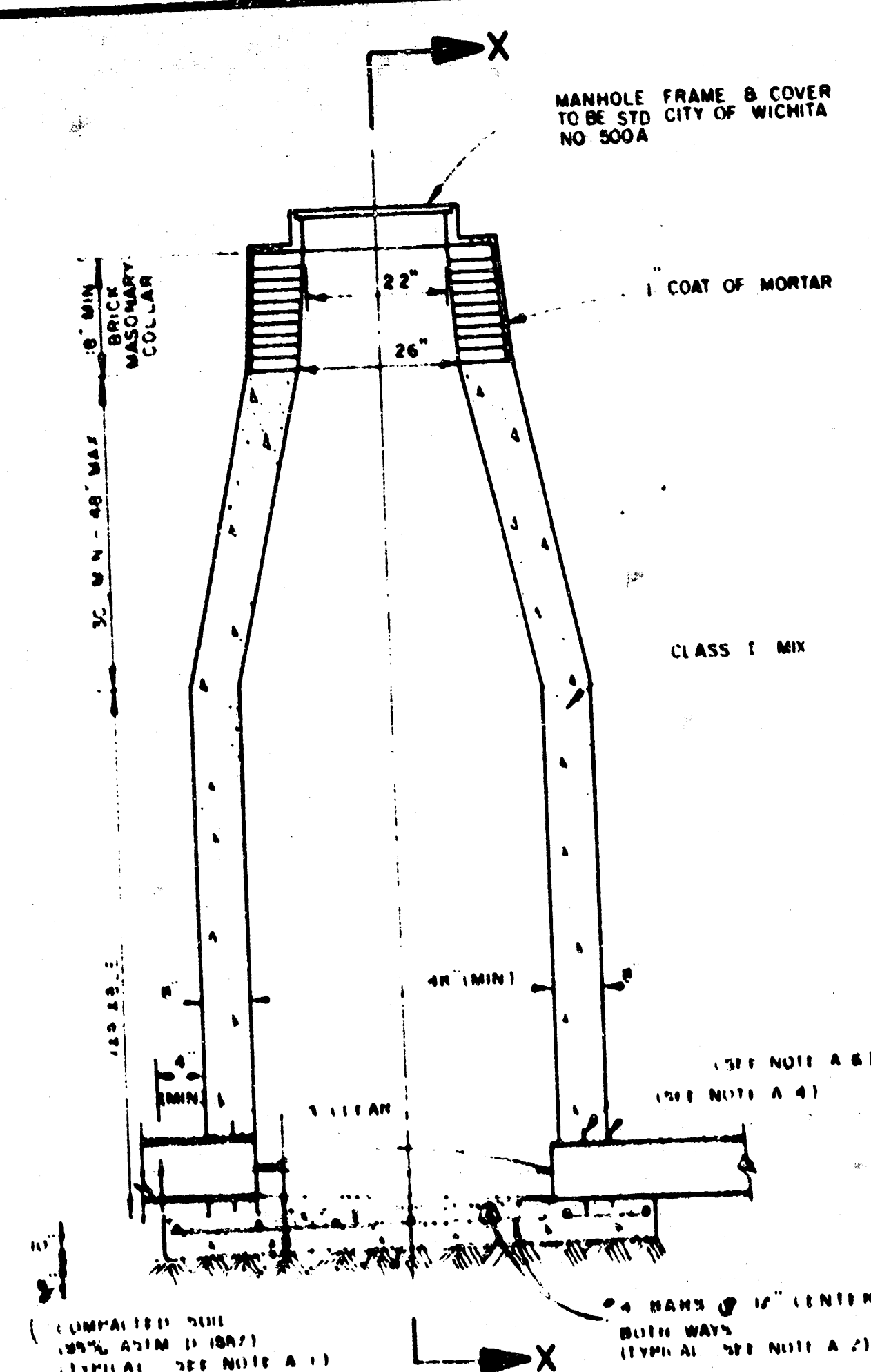
WYE NO'S 1 THRU 4 ARE 12"x4" WYES
WYE NO'S 5 THRU 12 ARE 10"x4" WYES
* THIS ITEM TO BE COMPLETED BY THE RESIDENT INSPECTOR AT TIME OF INSTALLATION.

AS CONSTRUCTED
W.D.S. PROJ. ENG. 11/2/78
RES. ENG. DATE

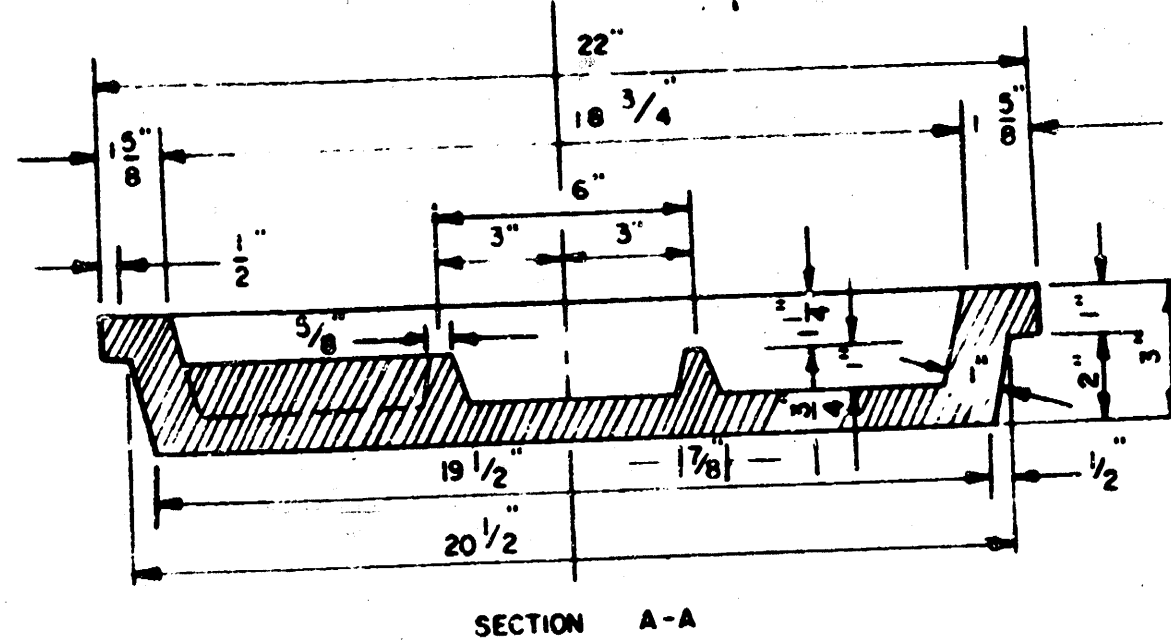
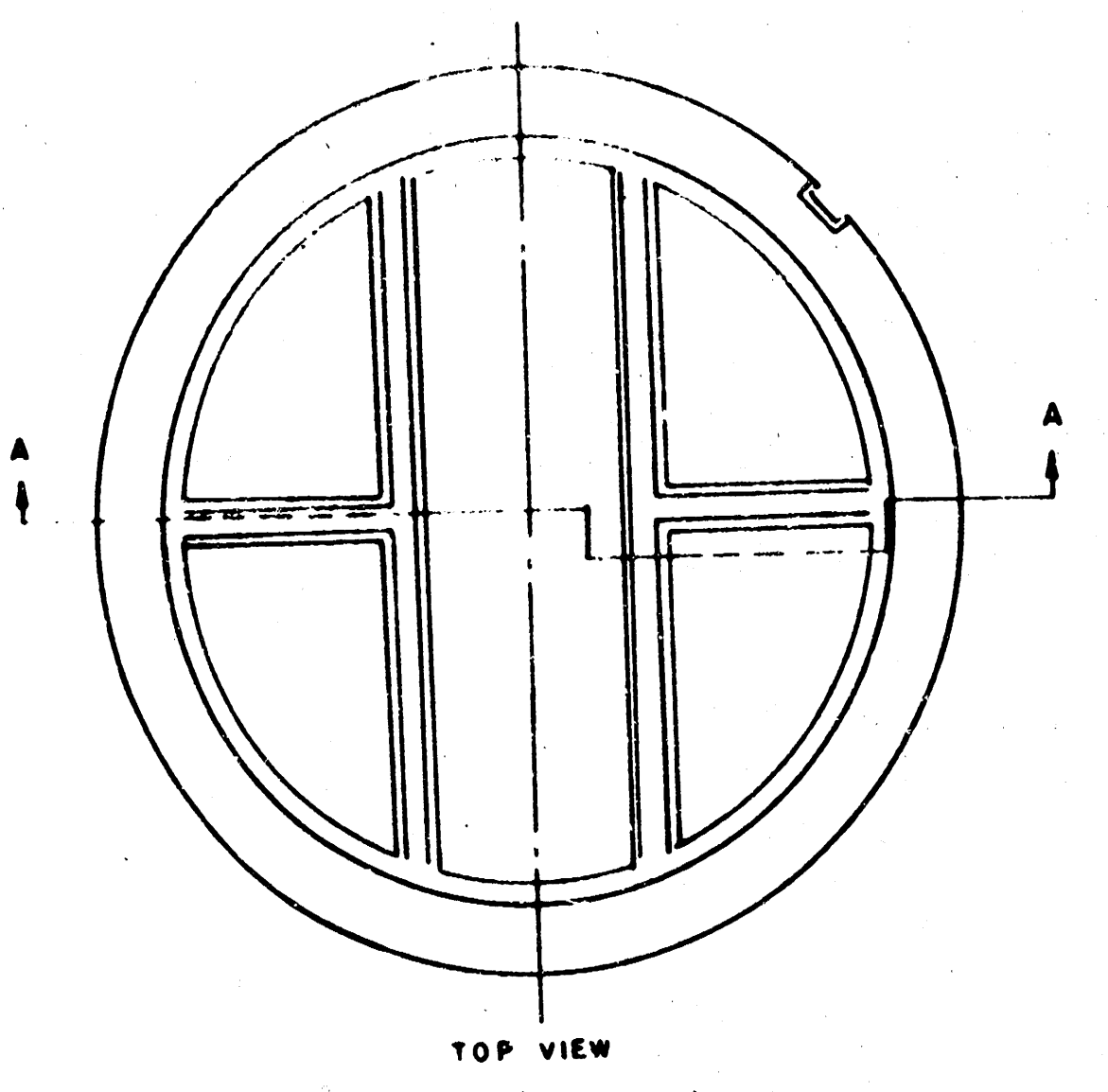


No.	Revision	By	Date
SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS G.C. MCLURE, JR., P.E. DIRECTOR & COUNTY ENGINEER SANITARY SEWER DETAILS SANITARY SEWER IMPROVEMENTS PARK MEADOW ESTATES LATERAL SEWER DISTRICT SEDGWICK COUNTY, KANSAS PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
Designed by	MDS	Job No.	76406
Drawn by	R.F.J.	Date	Nov. 78
		Sht.	3 of 6

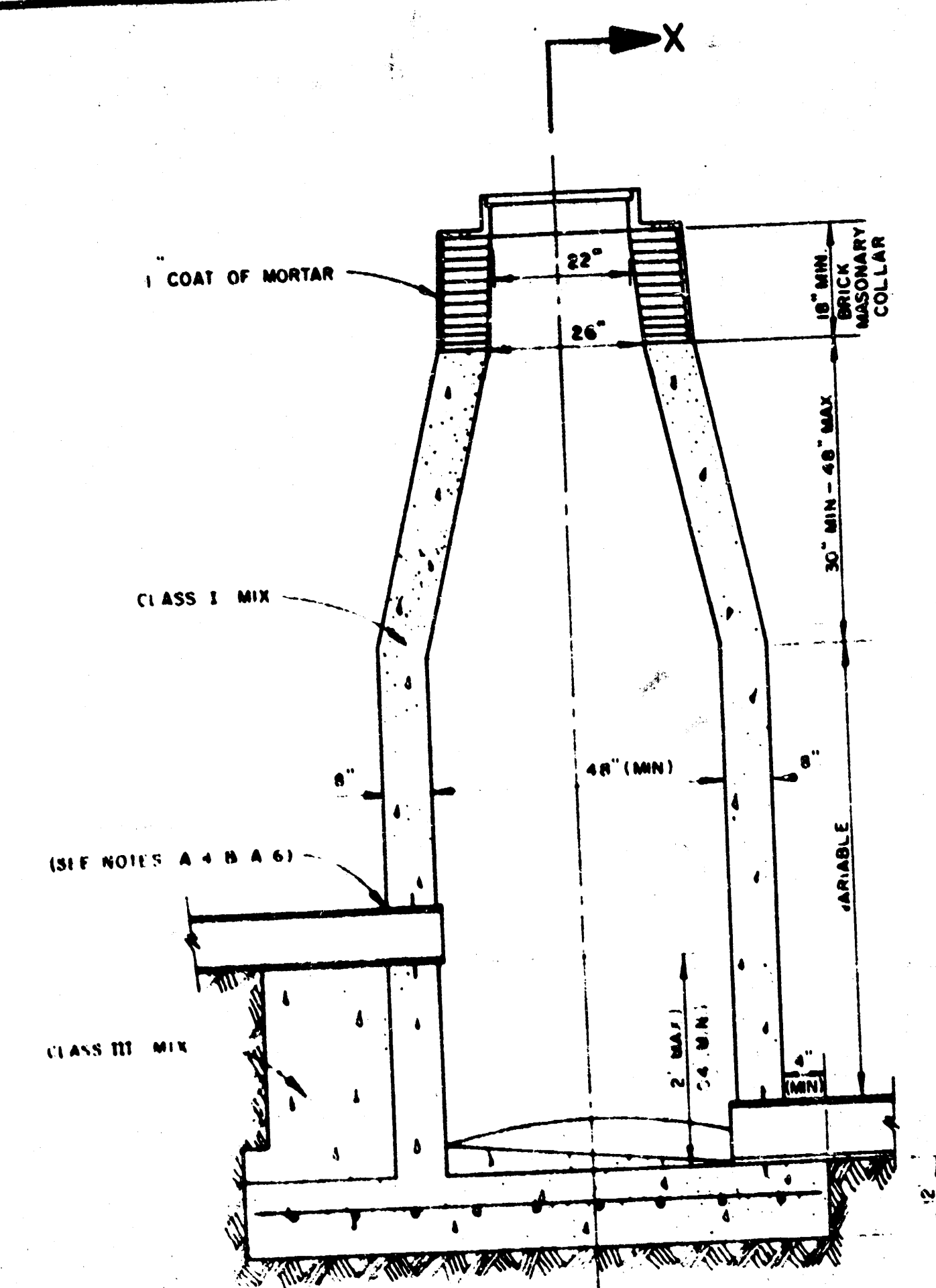
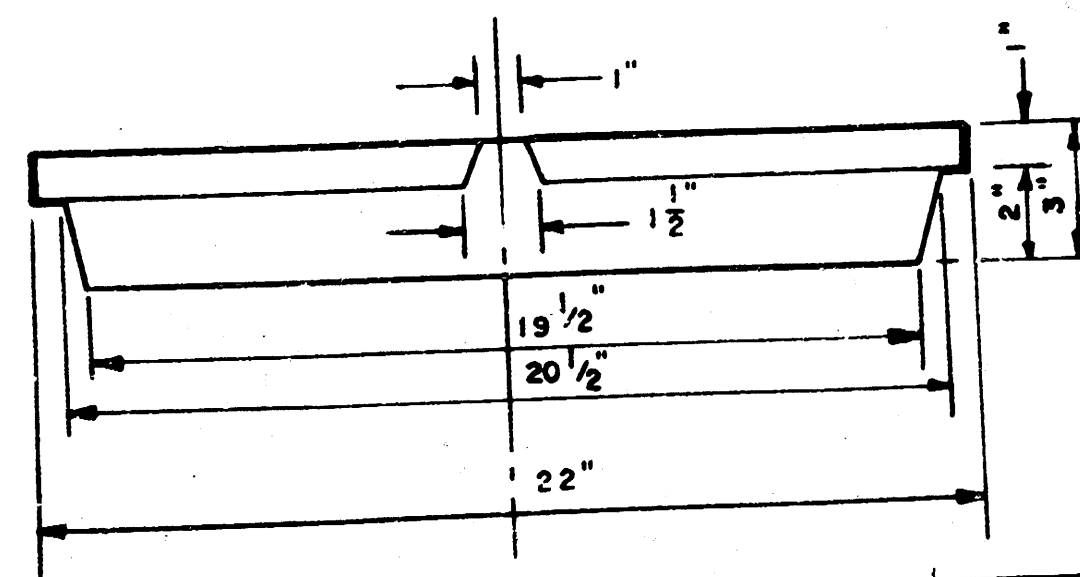
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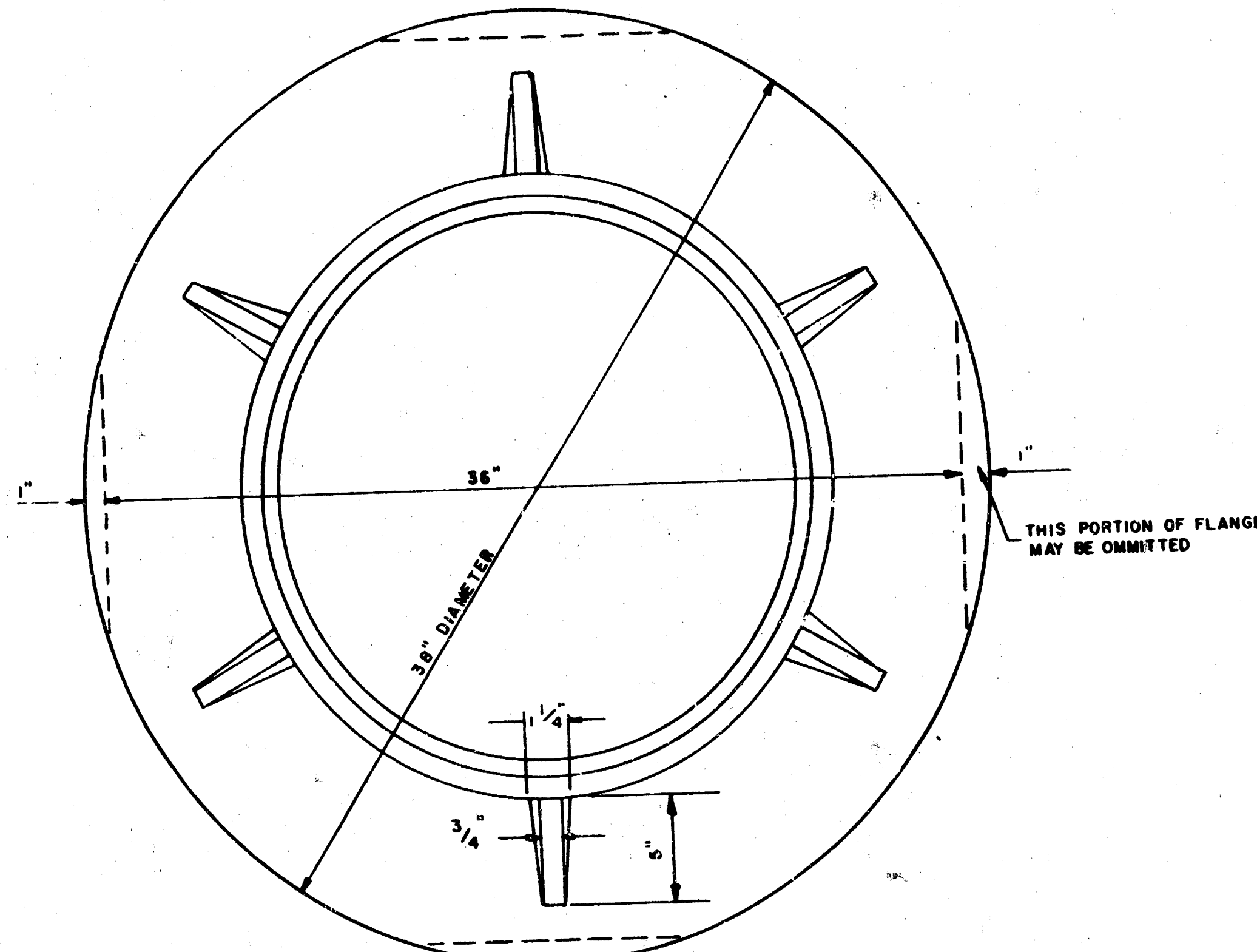
CAST IN PLACE
STANDARD MANHOLE
TYPE "E-A"



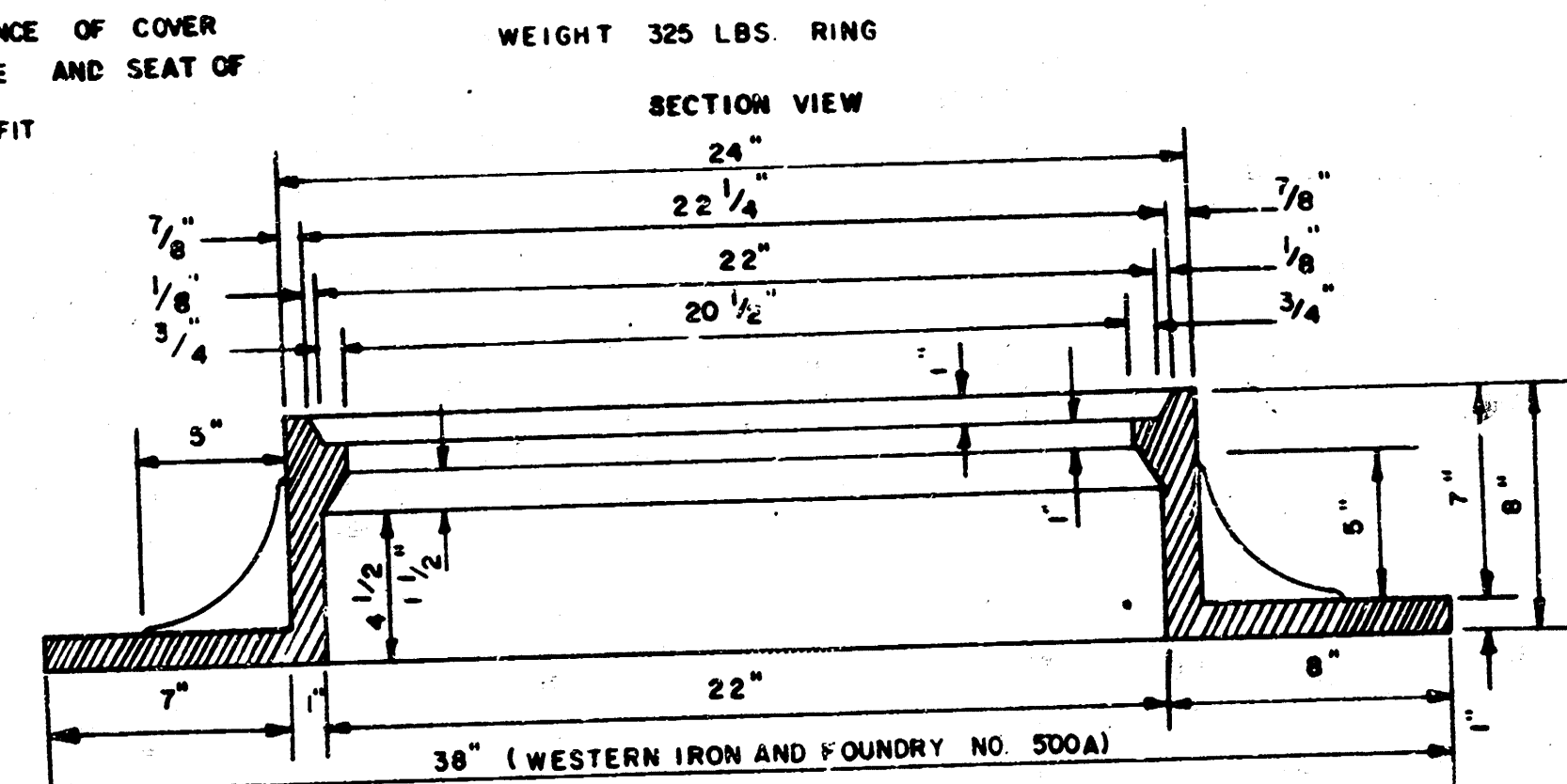
MANHOLE COVER
WEIGHT 110 LBS.



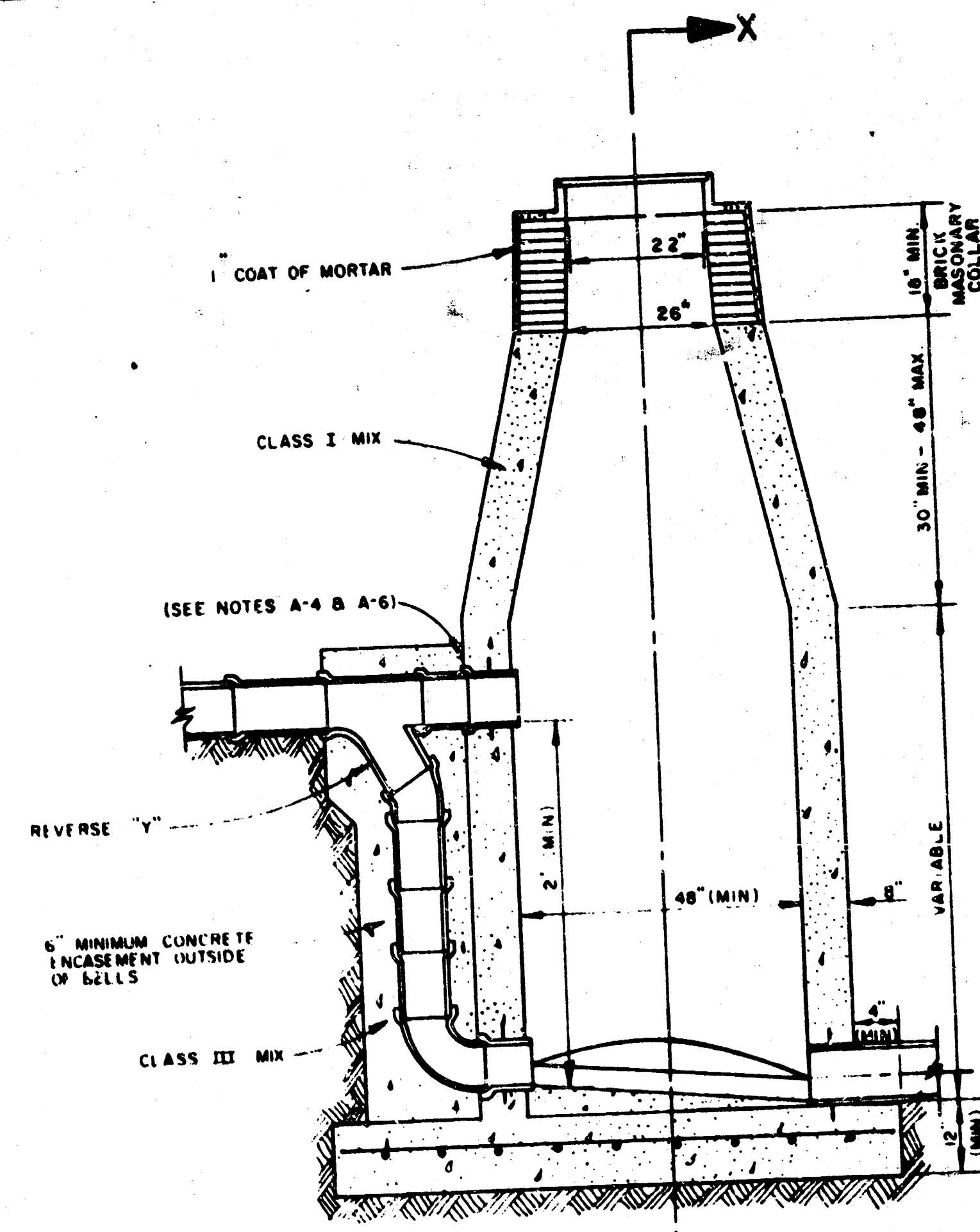
CAST IN PLACE
DROP MANHOLE
TYPE "E-B"



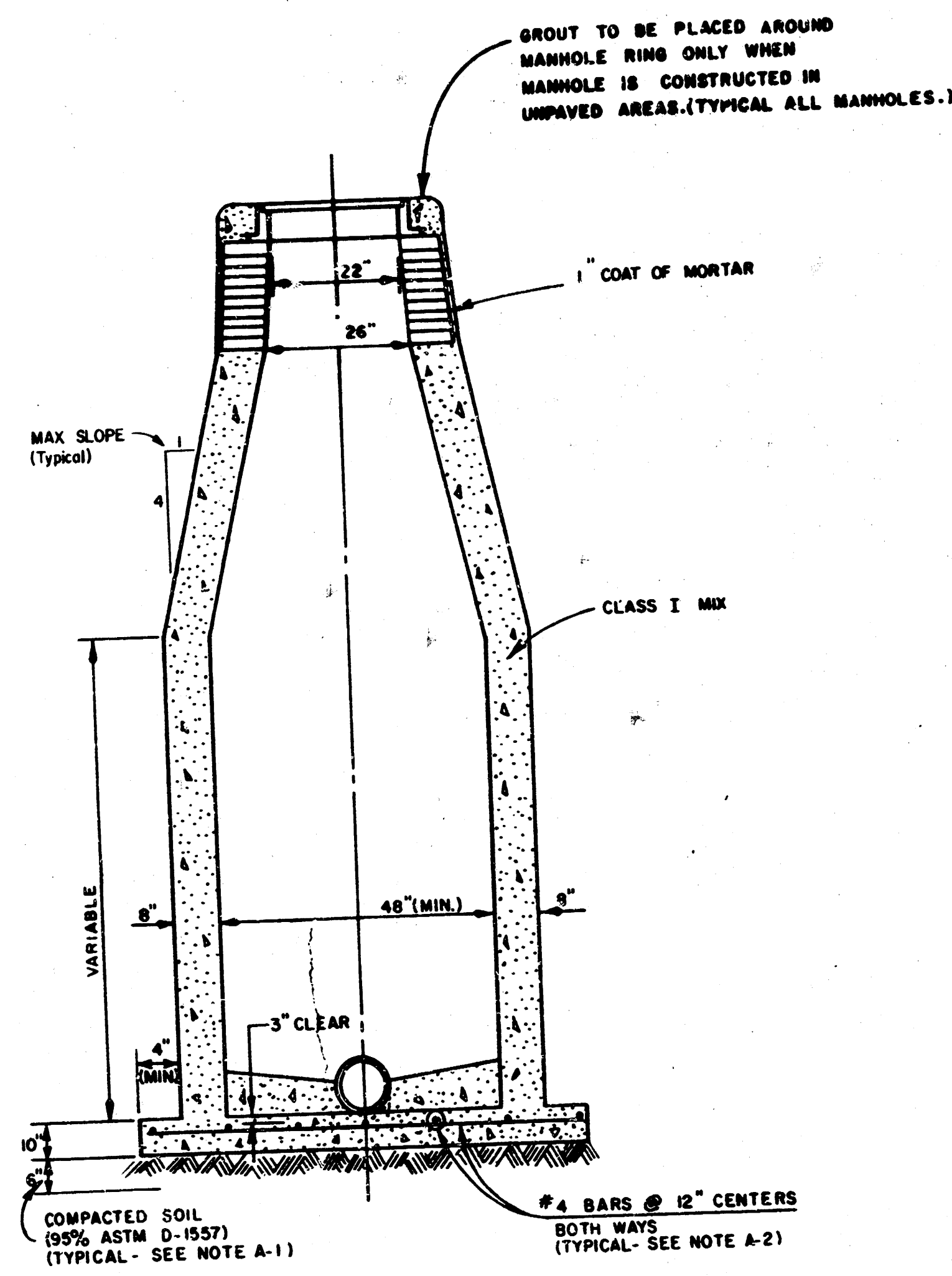
TOP VIEW
WEIGHT 325 LBS. RING



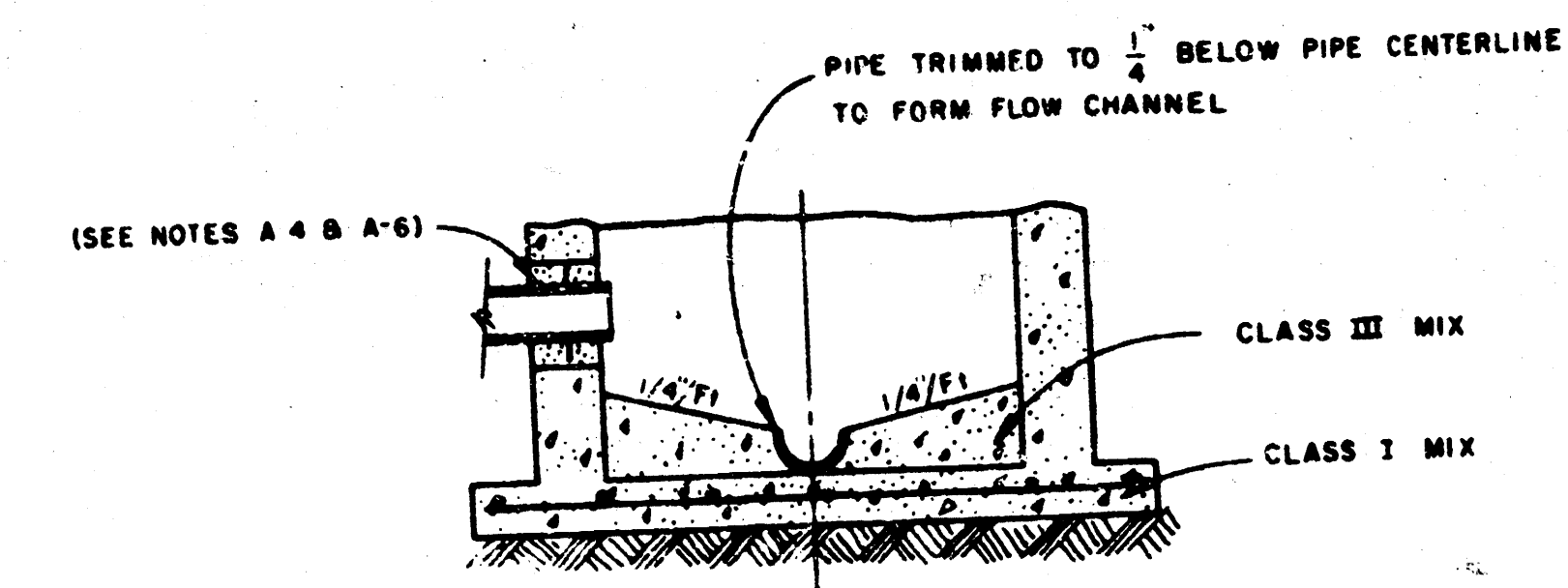
MANHOLE RING



CAST IN PLACE
OUTSIDE DROP MANHOLE
TYPE "E-C"



SECTION X



SECTIONAL ELEVATION-INVERT

PRECAST MANHOLES

PRECAST MANHOLES MAY BE SUBSTITUTED FOR THE 8" THICK CAST-IN-PLACE MANHOLES. THE MANHOLE BASE AND OUTSIDE MANHOLE PIPE SUPPORTS FOR PRECAST MANHOLES WILL BE THE SAME AS SHOWN FOR CAST-IN-PLACE MANHOLES.

NOTES

1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR HAS THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
3. MORTAR USED IN MASONRY CONSTRUCTION TO BE CLASS III MIX.
4. WHEN OPENINGS ARE CUT IN MANHOLE WALL FOR PIPE, THE PIPE WILL BE GROUTED IN PLACE WITH NON-SHRINKING GROUT. EXTERIOR OF COMPLETED CONNECTION TO BE SEALED WITH APPROVED COATING.
5. CAST-IN-PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY ON SEWERS NOT SUBJECT TO DETRIORATION 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.
6. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE, POLYETHYLENE PIPE, OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE TO THE FIRST JOINT OF PIPE FROM THE MANHOLE WALL. CONCRETE SUPPORTS MAY BE DELETED PROVIDED AN APPROVED FLEXIBLE WATERSTOP GASKET IS INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL.
7. PRECAST MANHOLES SHALL BE SET 4 INCHES INTO THE MANHOLE BASE.

STANDARD MANHOLES TYPE "E-A", "E-B", AND "E-C" MAY BE BID IN LIEU OF STANDARD MANHOLES "A and AA", "B and BB", AND "C and CC", RESPECTIVELY.

AS CONSTRUCTED
MAY BE PROJ. ENR. 112-12-10-10
RES. ENG. DATE

	Revision		By	Date
	SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS G. C. McLURE, JR., P.E. DIRECTOR & COUNTY ENGINEER			
	SANITARY SEWER DETAILS SANITARY SEWER IMPROVEMENTS PARK MEADOW ESTATES LATERAL SEWER DISTRICT SEDGWICK COUNTY, KANSAS PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
	Designed by M.D.S. Drawn by	Job No. 76496 Date 3/21/77	Sh. 4 of 46	

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