

PRIVATE SANITARY SEWER EXTENSIONS SERVING

PHASE III

LOT 1, BLOCK 1

RIVER OAKS MOBILE HOME PARK

PROJECT NO. 690 PPS (607861)

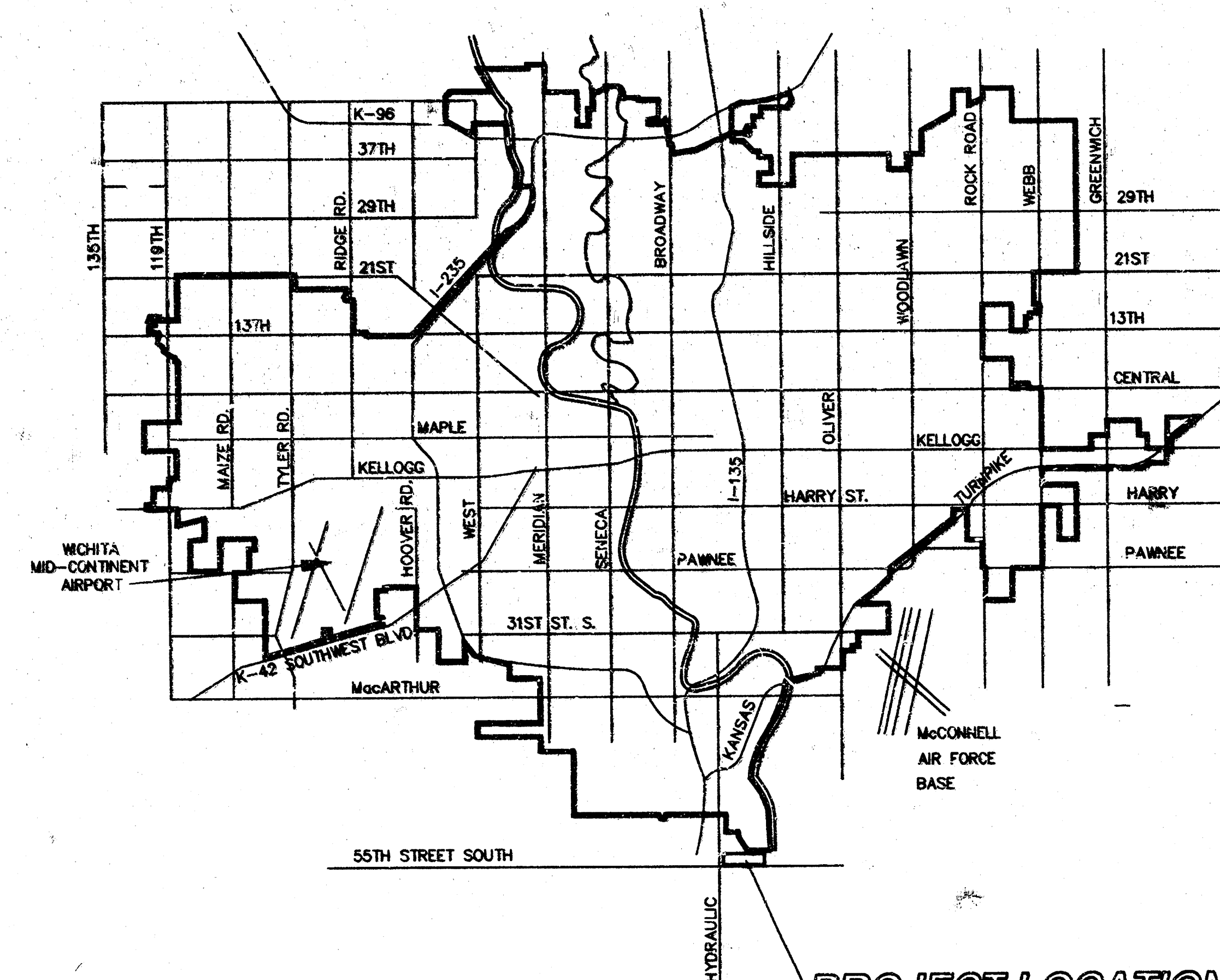
CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, P.E. - CITY ENGINEER

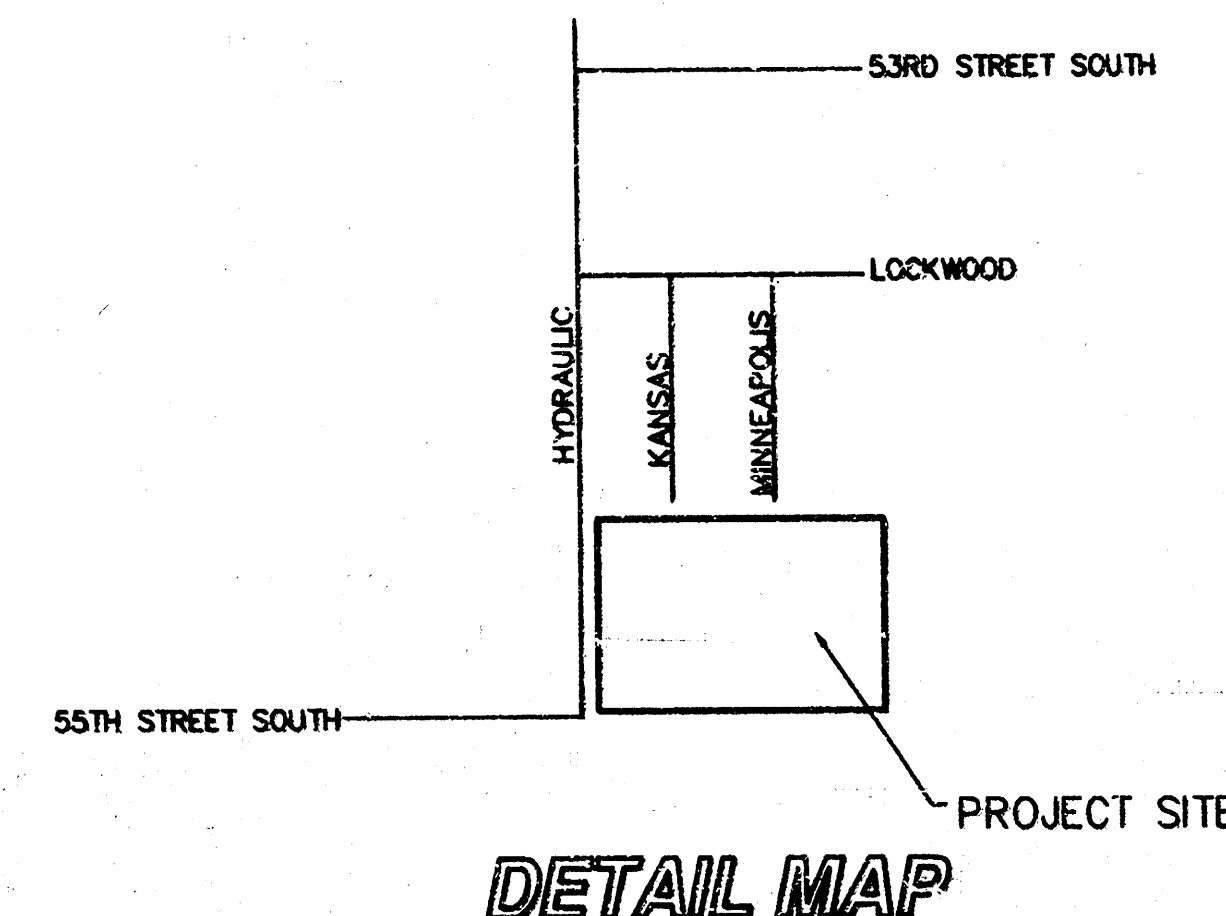
GENERAL NOTES

- Contractor will be required to provide a minimum advance notice of forty-eight (48) hours to utility companies prior to starting any excavation as follows:
Kansas One-Call 687-2470
- All sanitary sewer and appurtenances shall be installed in accordance with City of Wichita, Kansas, Standard Specifications for Sanitary Sewer Construction.
- The Contractor shall be responsible for preserving property lines. The Contractor will be required to re-establish any property lines which are damaged or destroyed by his construction operations. Such lines shall be re-established by a licensed land surveyor in accordance with state laws.
- All areas disturbed by construction activities shall be seeded with Rye at a rate of 4 lb/1000 s.f. within 14 days.

SEWER LOCATION SUMMARY		
STATION	OFFSET	ELEVATION
0+08.50	1.71 L	71.42
0+72.45	4.33 R	70.68
1+28.58	2.08 L	70.40
1+58.97	2.22 R	70.17
1+68.42	1.74 L	70.05
2+38.70	2.63 R	70.54
2+48.60	2.77 L	70.02
3+11.52	4.50 R	70.47
3+18.80	2.27 L	70.62
3+08.82	5.53 R	70.34
3+88.57	4.37 L	70.65
4+52.90	5.16 R	70.75
4+58.67	3.51 L	70.91
5+22.82	4.45 R	72.07
5+28.57	3.08 L	72.14
5+42.20	5.36 R	72.82
5+50.43	3.82 L	73.03
6+43.73	5.02 R	72.49
6+50.77	4.98 L	72.53
7+32.87	5.96 R	72.63
7+36.35	5.22 L	72.77
8+03.38	5.07 R	72.92
8+08.34	5.76 L	72.39
8+72.30	4.12 R	72.01
8+78.18	3.00 L	70.87
9+40.81	4.32 R	70.60
9+48.01	3.77 L	70.84
10+12.15	3.83 R	70.41
10+18.43	3.75 L	70.79



VICINITY MAP



DETAIL MAP

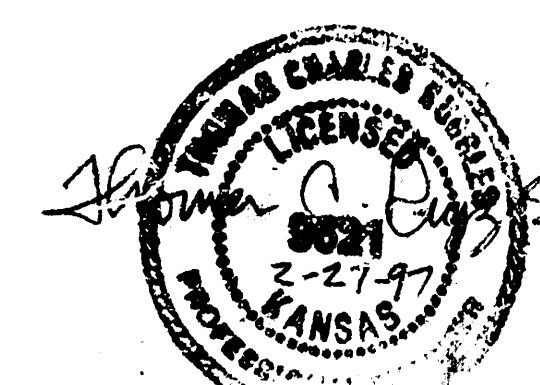
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- STANDARD MANHOLE DETAILS

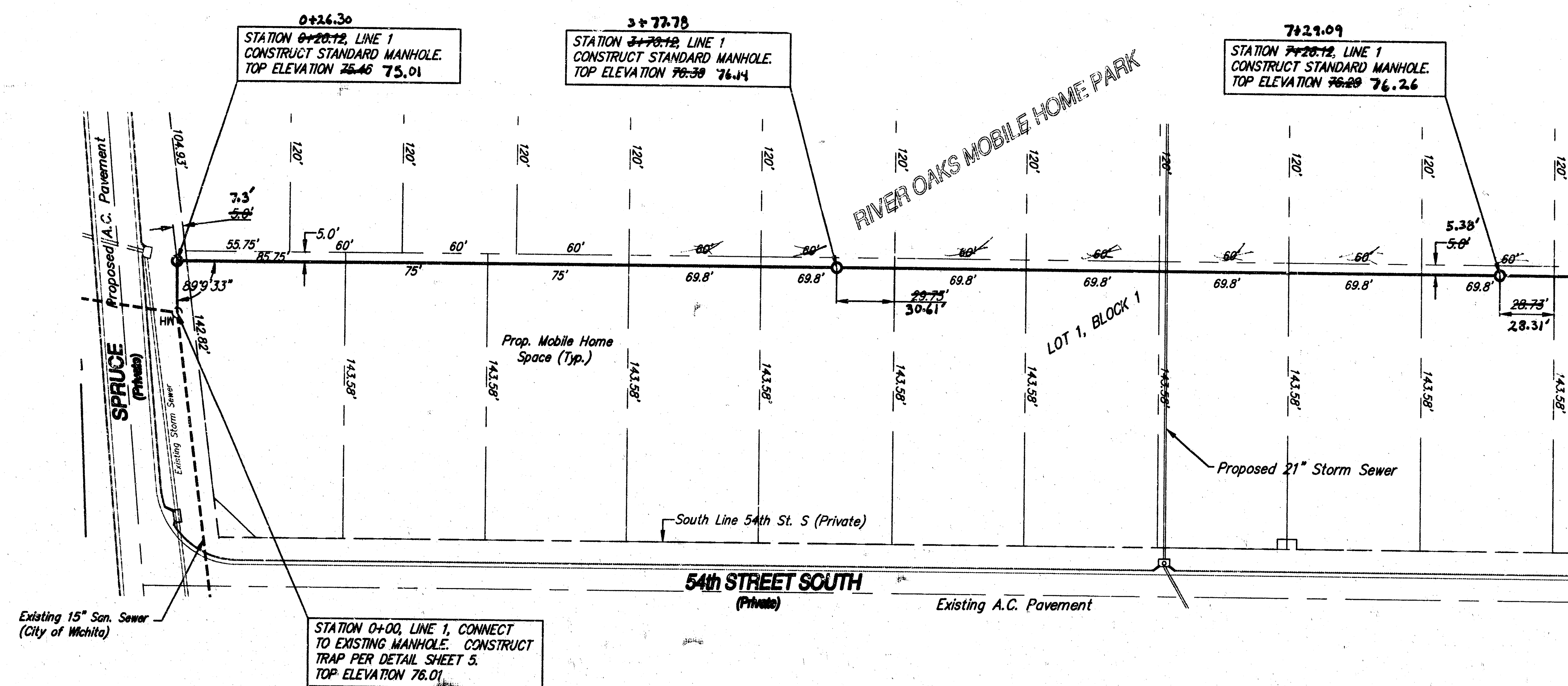
Booked
N-271
9/17/97
RDL

INSPECTION AND TESTING FOR THIS PROJECT TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER. DEVELOPER, SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND COVERED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DESIGNATED EXISTENTS OF PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTIONS, NOT SHALL ANY WORK BE COMMENCED IN DESIGNATED EXISTENTS OF PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

APPROVED AS NOTED
By CITY ENGINEER OF WICHITA
Sanitary Sewer VRH 2/6/97
Storm Sewer _____
Drainage Approaches _____
Note: None _____
Permit _____



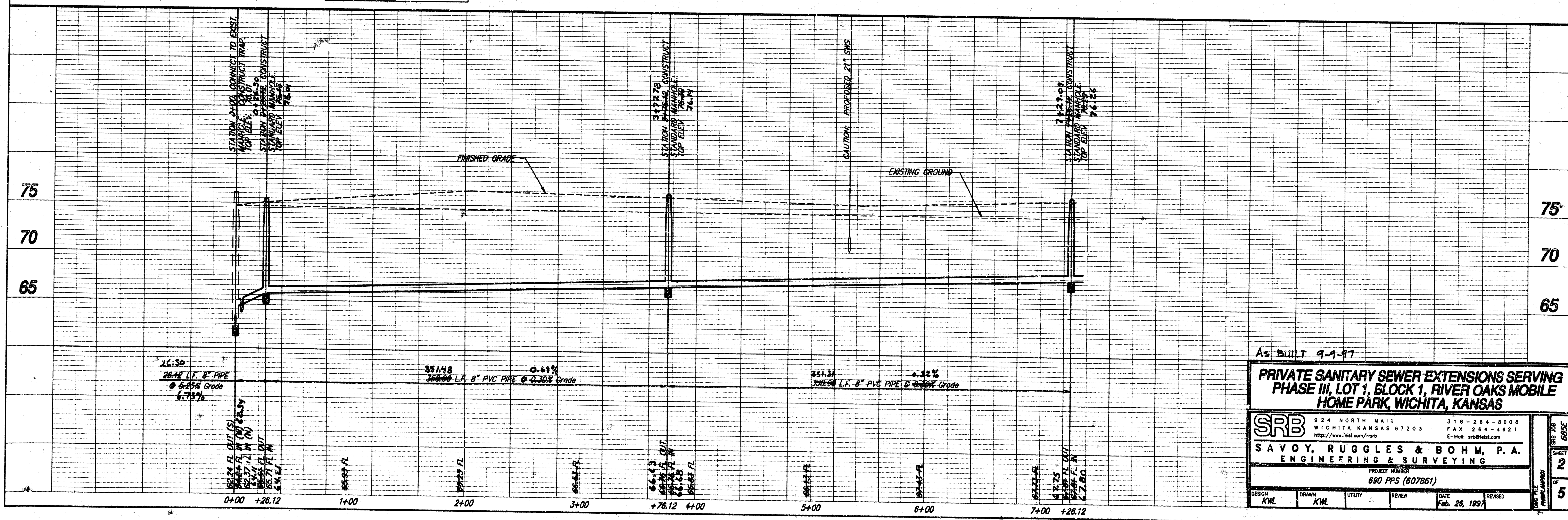
REVISION AS BUILT 9-9-97
SRB 924 NORTH MAIN 316-264-6008
WICHITA, KANSAS 67203 FAX 284-4621
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING



SRB

SCALE
1" = 40' Plan
1" = 5' Profile (Vert.)

Bench Mark:
"C" Cut in concrete at Southwest corner
of Pool. Elev. 76.18 (City Datum)



AS BUILT 9-1-97

**PRIVATE SANITARY SEWER EXTENSIONS SERVING
PHASE III, LOT 1, BLOCK 1, RIVER OAKS MOBILE
HOME PARK, WICHITA, KANSAS**

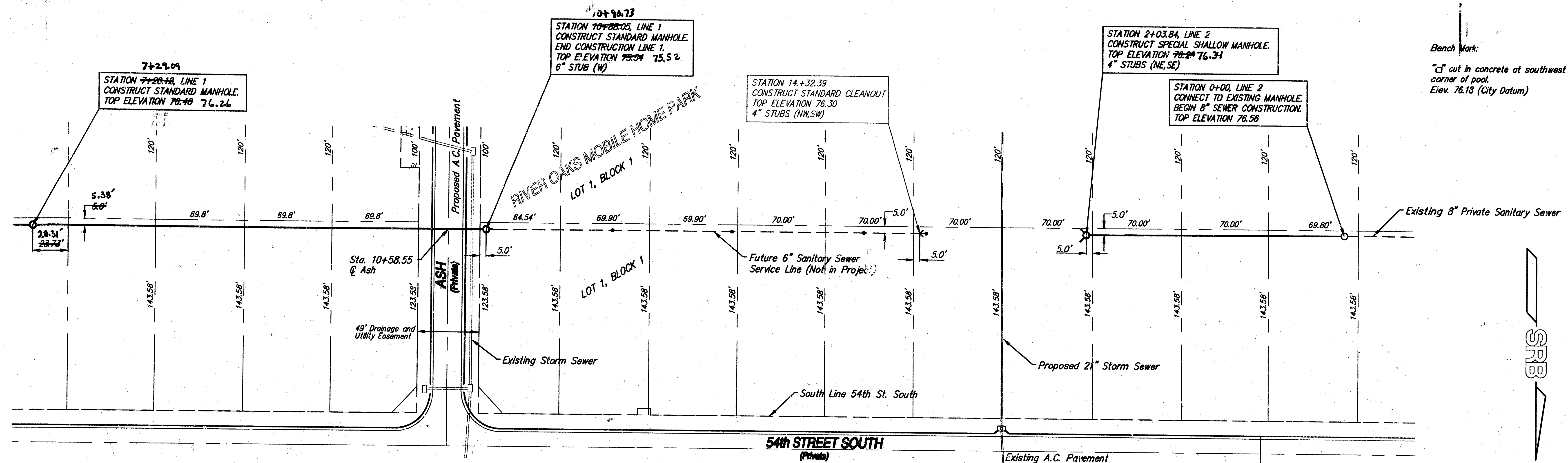
SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
316-264-8008
FAX 264-4621
http://www.srb.com/~srb
E-Mail: srb@eist.com

SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

PROJECT NUMBER
690 PPS (607861)

DESIGN KWL	DRAWN KWL	UTILITY	REVIEW	DATE Feb. 28, 1997	REVISED
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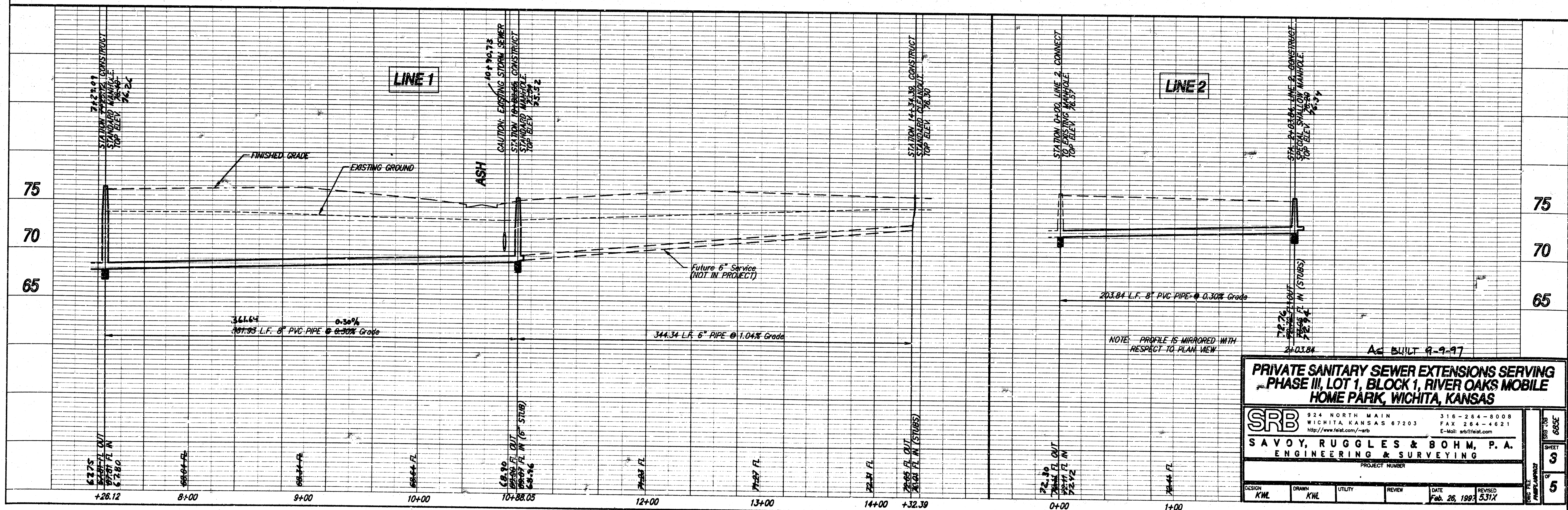
SRB JOB 690SE
SHEET 2 OF 5



Bench Mark:
 "C" cut in concrete at southwest corner of pool.
 Elev. 76.18 (City Datum)

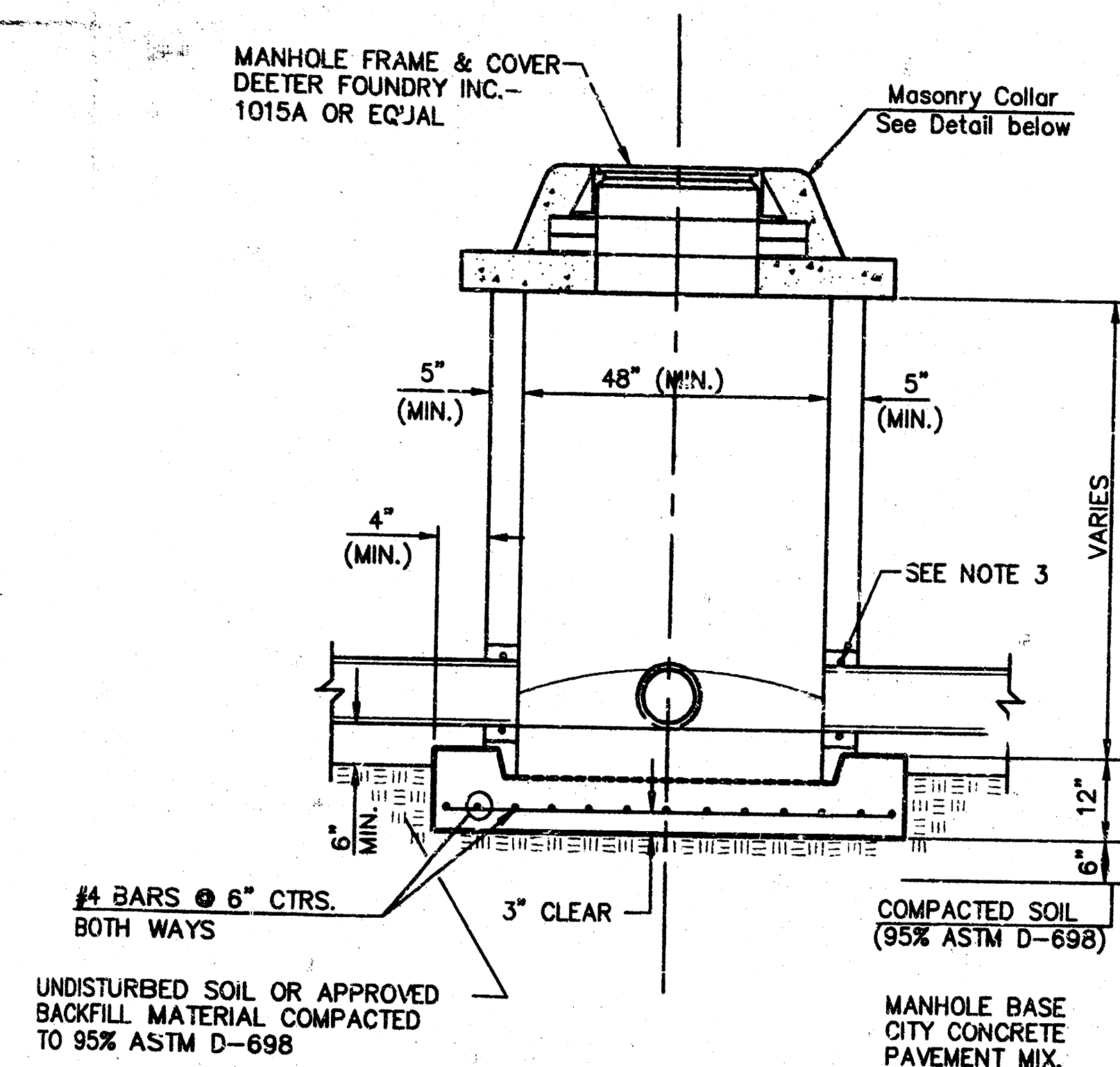
SRB

SCALE
 1" = 40' Plan
 1" = 5' Profile (Vert.)

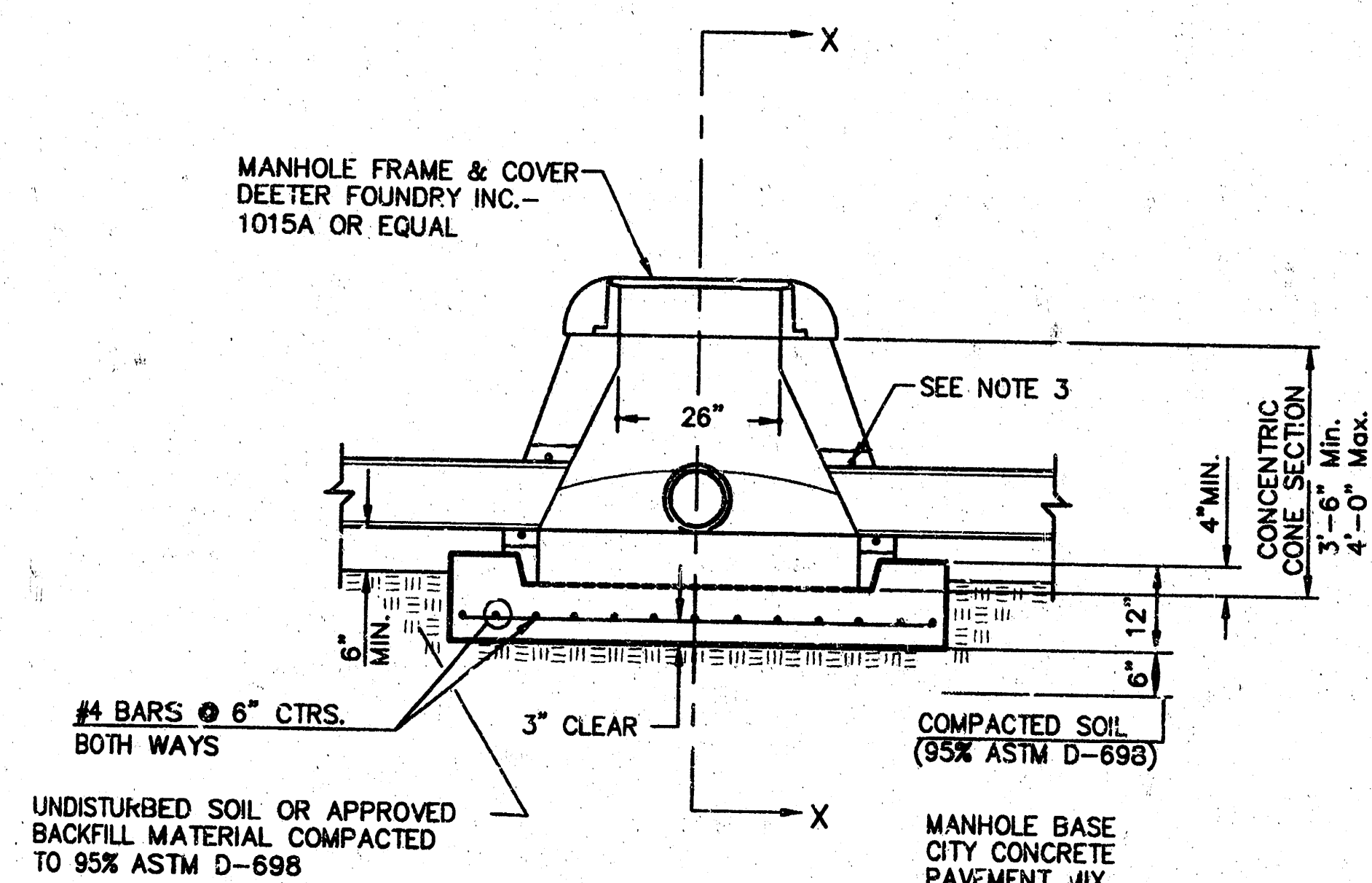


PRIVATE SANITARY SEWER EXTENSIONS SERVING PHASE III, LOT 1, BLOCK 1, RIVER OAKS MOBILE HOME PARK, WICHITA, KANSAS

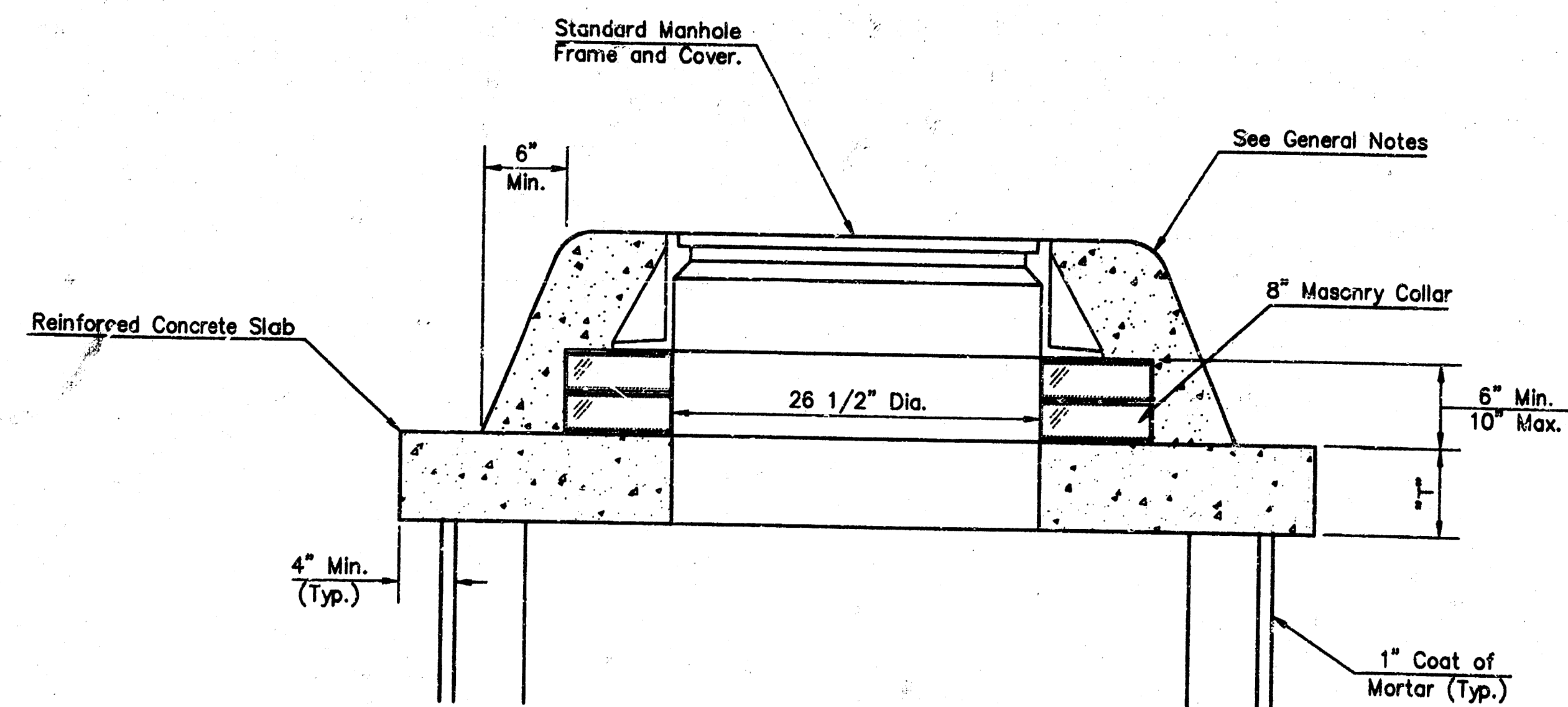
SRB	924 NORTH MAIN WICHITA, KANSAS 67203 http://www.feist.com/~srb	316-264-8008 FAX 264-4621 E-Mail: srb@feist.com	SHEET 3 OF 5
	SAVOY, RUGGLES & BOHM, P. A. ENGINEERING & SURVEYING		
PROJECT NUMBER			SHEET NO. PRINTER/ANALYST
DESIGN KWL	DRAWN KWL	UTILITY	
DATE FEB. 26, 1997		REVIEW 5/31	
PROJECT NO.		REVISED	



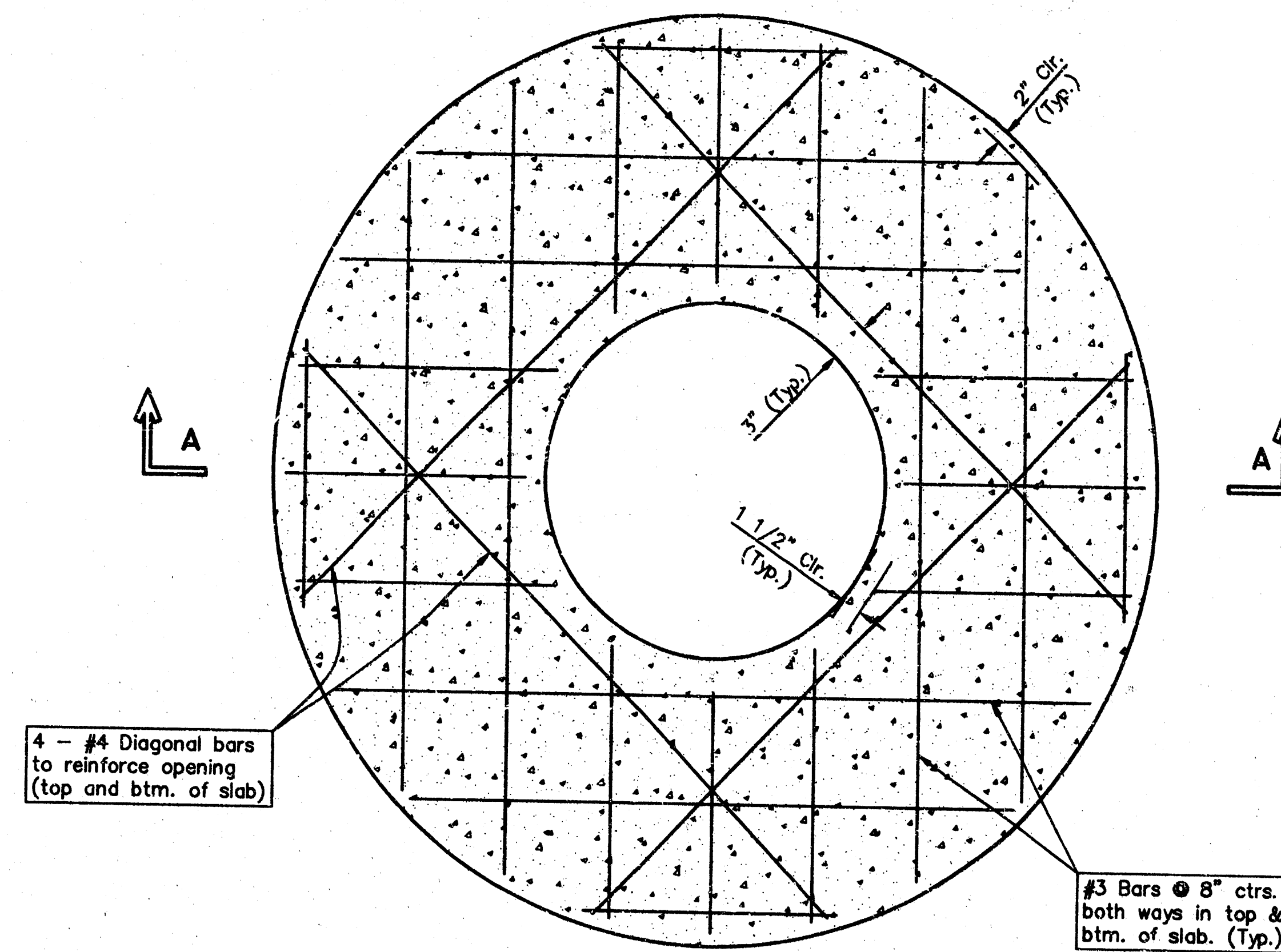
SHALLOW TYPE "P" MANHOLE



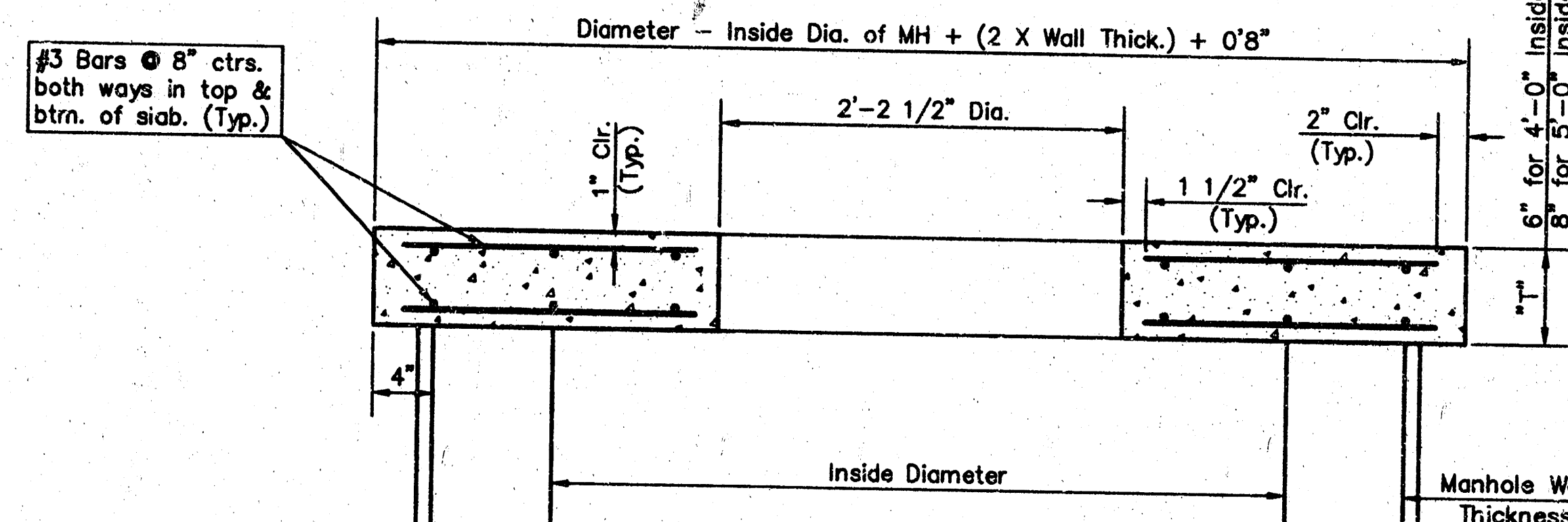
SPECIAL SHALLOW TYPE "P" MANHOLE



MASONRY COLLAR DETAIL

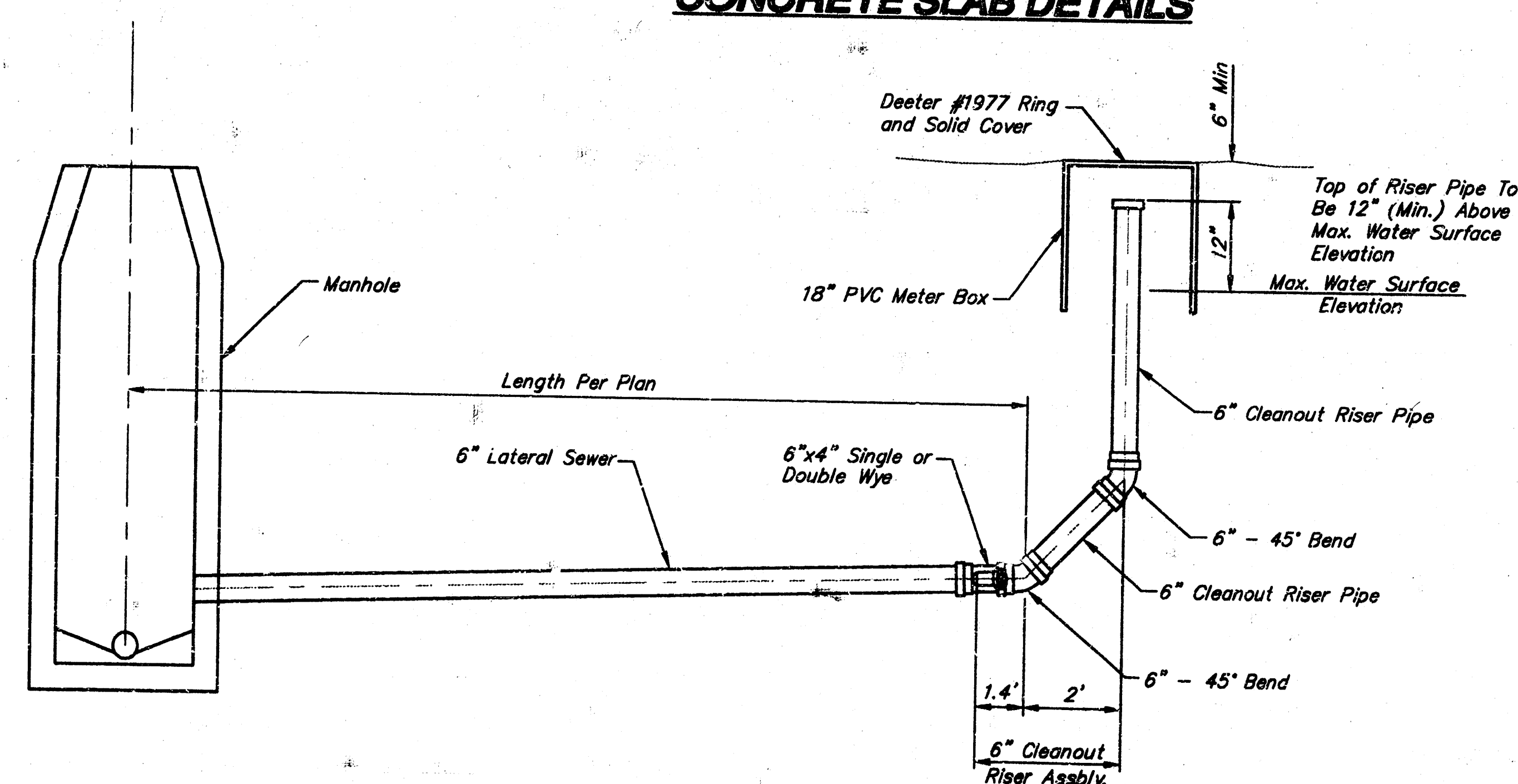


PLAN



SECTION A-A

CONCRETE SLAB DETAILS



CLEANOUT RISER DETAIL

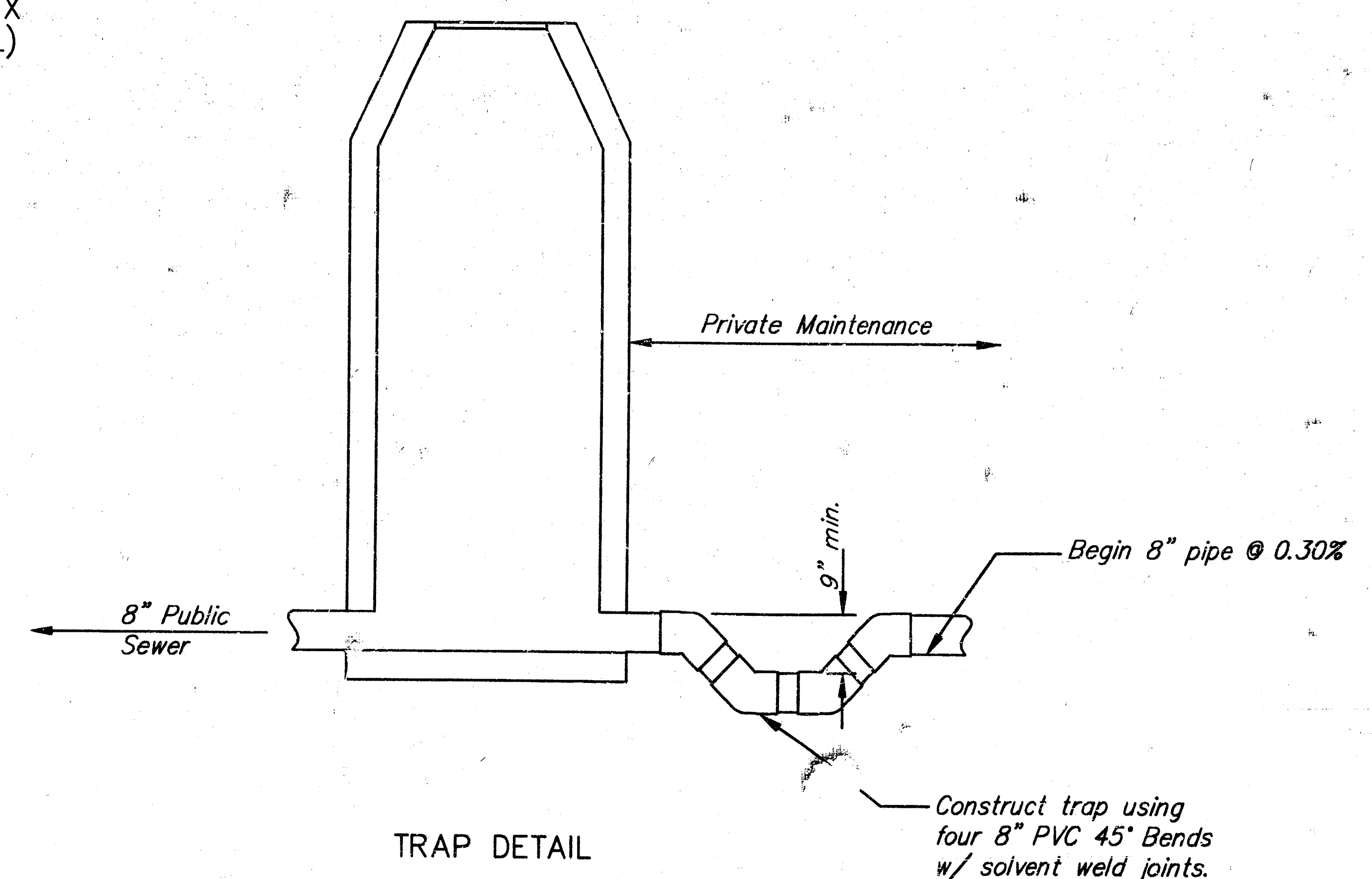
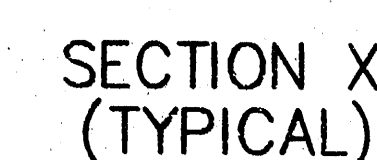
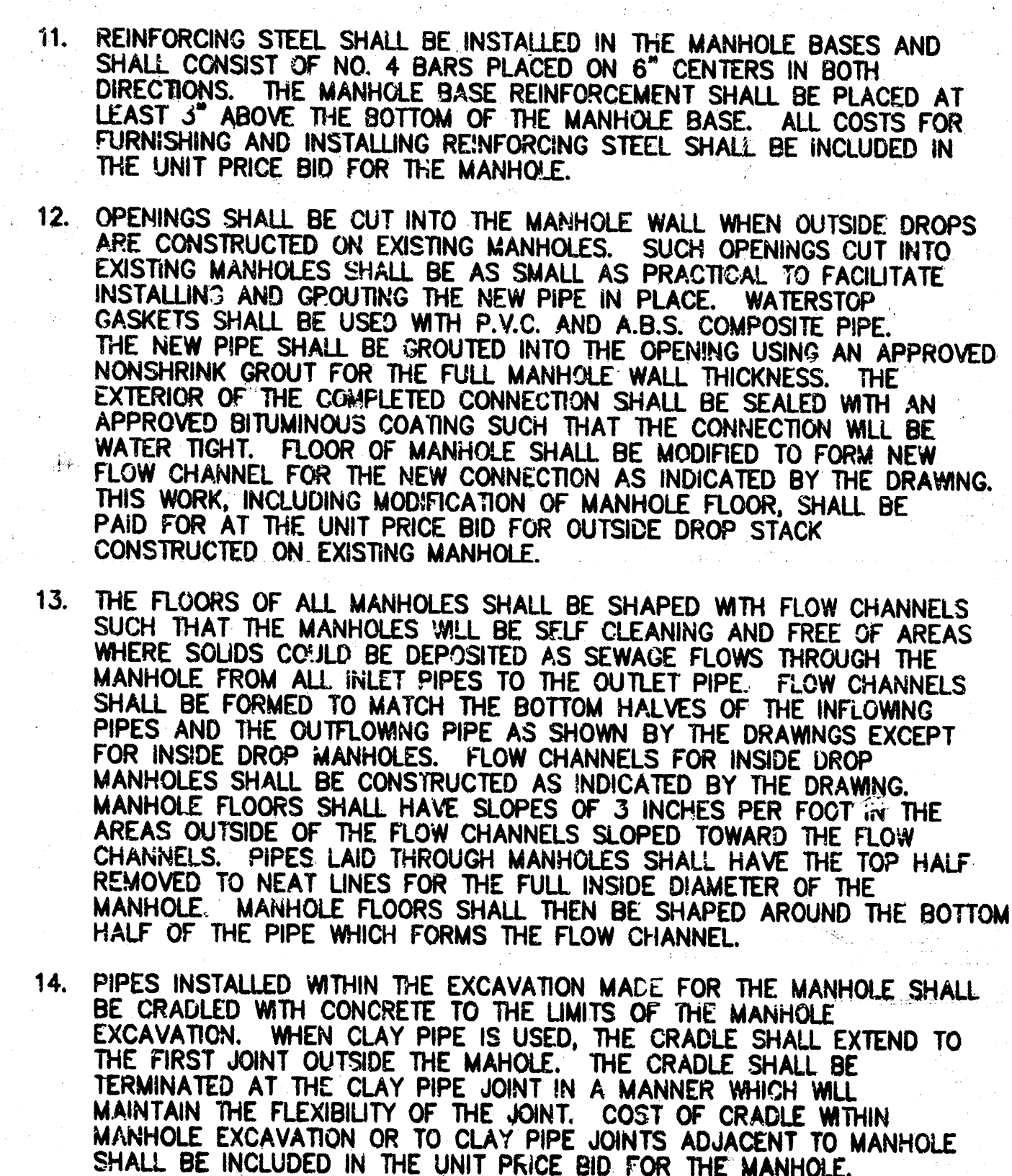
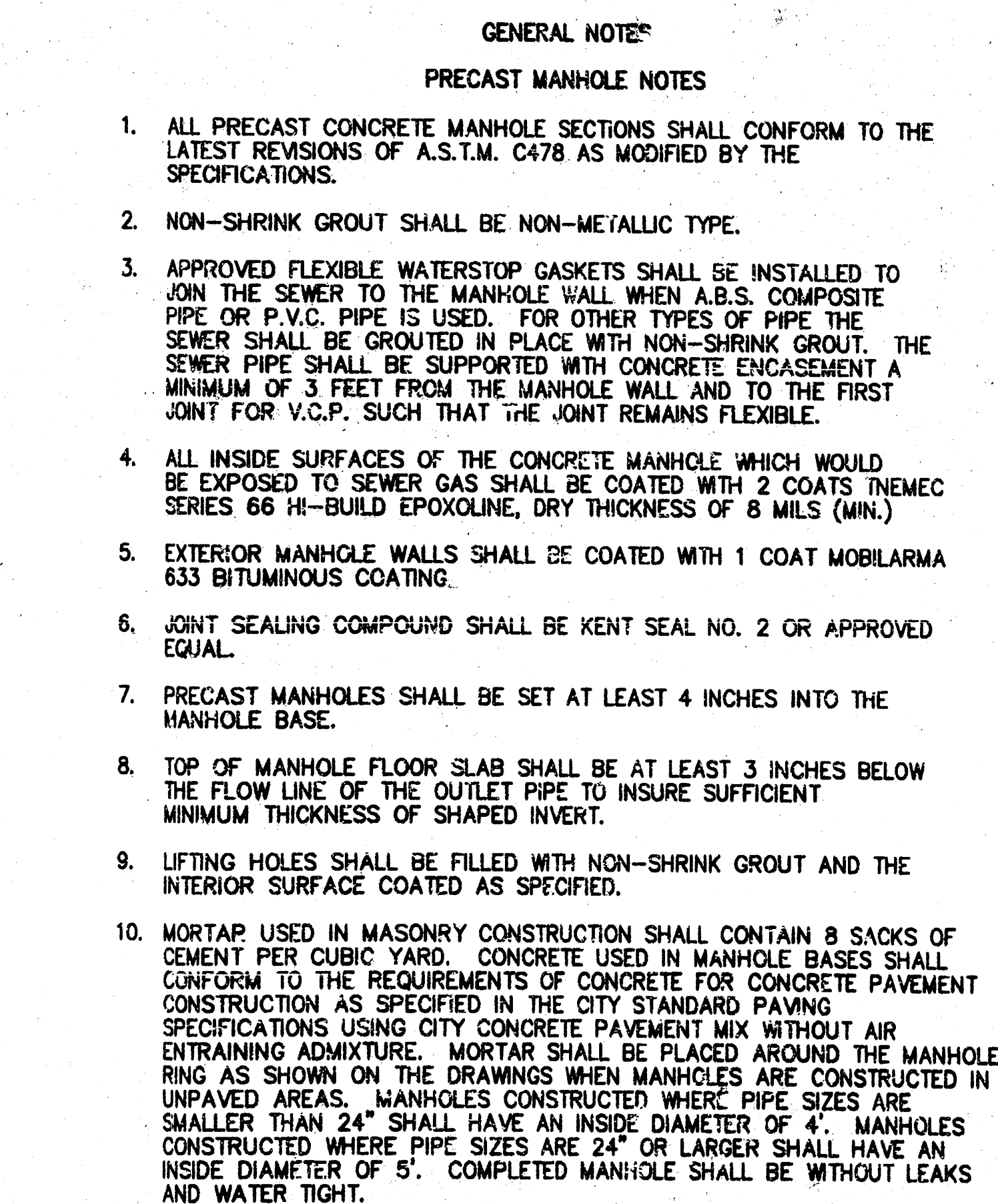
GENERAL NOTES

- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
- NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
- APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
- ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS TNEPEC SERIES 66 HI-BUILD EPOXYLINE, DRY THICKNESS OF 8 MILS (MIN.)
- EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINOUS COATING.
- JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
- PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
- TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
- LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4". MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5". COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
- REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 8" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
- THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
- PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
- MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
- ALL BRICK USED IN MANHOLE CONSTRUCTION SHALL MEET GRADE SW OF ASTM C652 OR C62-87.

SHALLOW TYPE "P" MANHOLE DETAILS

SRB		924 NORTH MAIN WICHITA, KANSAS 67203		316-264-8008 FAX 264-4621	
SAVOY, RUGGLES & BOHM, P.A. ENGINEERING & SURVEYING					
PROJECT NUMBER 690-PPS-607861					
DRAWN DKD	DESIGN	REVIEW	DATE 7-1-96	UTILITY	SRB JOB 685E
					4 OF 5

1906



STANDARD MANHOLE DETAILS
SEWER APPURTENANCES DETAILS
CITY OF WICHITA, KANSAS

5531X\standard details