



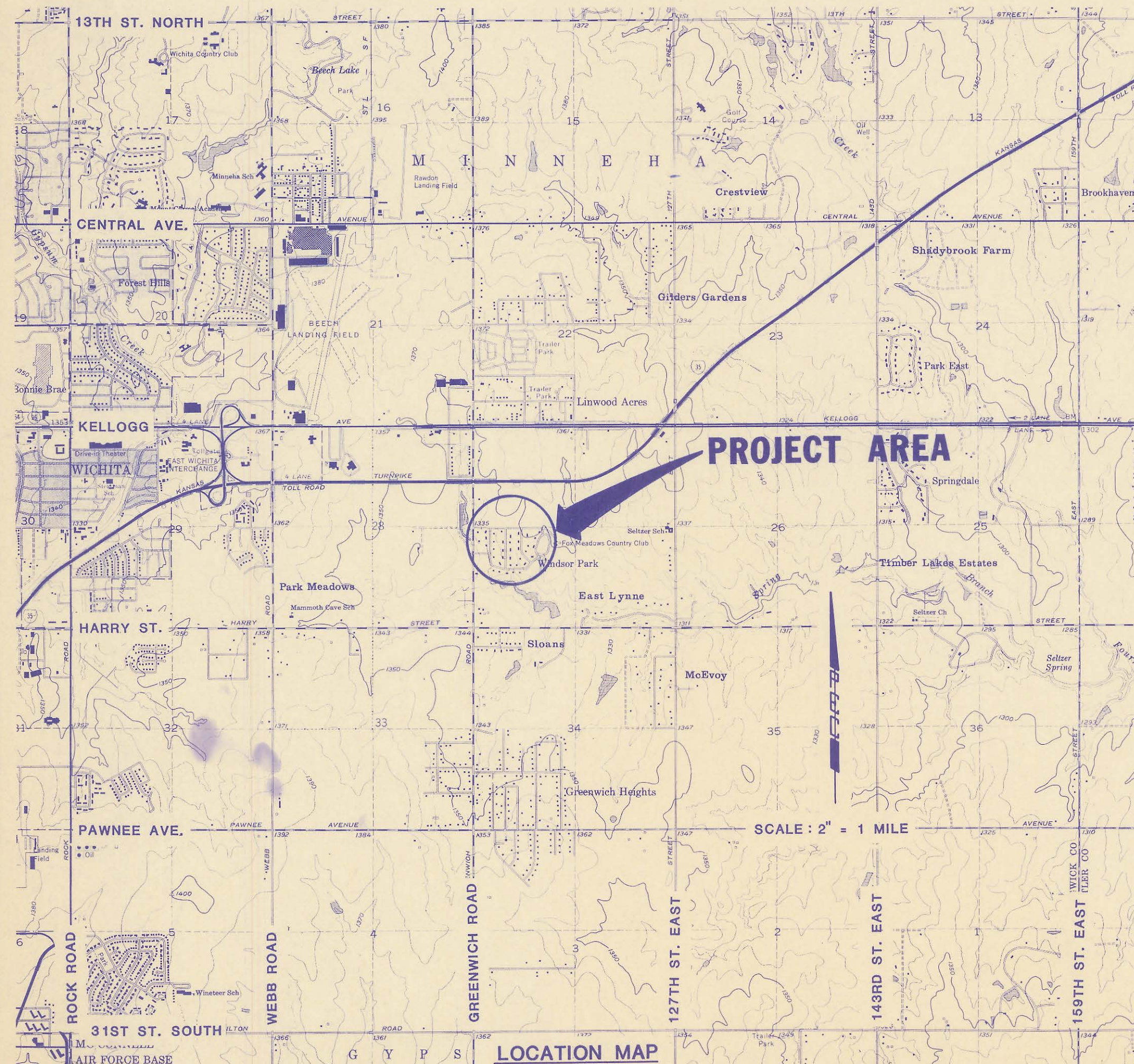
FOUR MILE CREEK

4MC-013

CONSTRUCTION PLANS FOR SANITARY SEWER LATERALS

IN THE WINDSOR PARK LATERAL SEWER DISTRICT

Project No. 34-81051-14-024
JANUARY, 1982



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APPROVED BY:
SEDGWICK COUNTY
BUREAU OF PUBLIC SERVICES

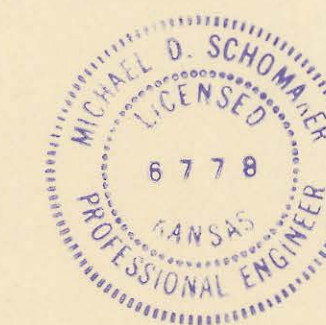
[Signature] 1/22/82
DIRECTOR DATE

APPROVED BY:
BOARD OF COUNTY COMMISSIONERS

[Signature] 1/22/82
CHAIRMAN DATE

FILED IN THE OFFICE OF:
THE SEDGWICK COUNTY CLERK

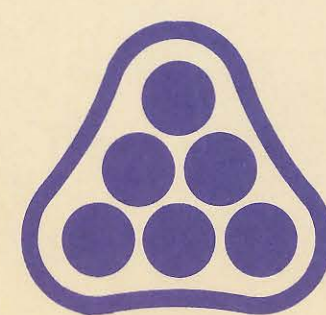
[Signature]
COUNTY CLERK DATE



RECORD DRAWING
March 3, 1982

UPDATED PER CURRENT STANDARDS 9/1988

EPA Project No. C200691-02



PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
WICHITA, KANSAS

4MC-013

- THE CONTRACTOR SHALL CONTAIN HIS OPERATIONS TO PERMIT LOCAL AND EMERGENCY TRAFFIC THROUGH AND ACROSS CONSTRUCTION ON EXISTING ROADWAYS AT ALL TIMES. THE CONTRACTOR SHALL ERECT WARNING SIGNS, FLASHING LIGHTS, AND BARRICADES IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) TO ENSURE SAFETY AS DIRECTED IN ARTICLE 11 OF THE GENERAL CONDITIONS. THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- AT LEAST 48 HOURS PRIOR TO BEGINNING EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (316) 687-2470 TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA: KPL/GAS SERVICE COMPANY, K.G. & E., THE WICHITA WATER DEPARTMENT, SOUTHWESTERN BELL TELEPHONE, MULTIMEDIA CABLEVISION, AND WILLIAMS NATURAL GAS COMPANY.
- THE BURIED UTILITIES AS LOCATED ON THE PLANS ARE APPROXIMATE LOCATIONS ONLY. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- EXCESS EXCAVATED MATERIAL AND OTHER DEBRIS, INCLUDING ANY TREES REMOVED, TREE TRIMMINGS, AND FENCES REMOVED SHALL BE WASTED ON SITES TO BE PROVIDED BY THE CONTRACTOR AS APPROVED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL AVOID REMOVAL OR TRIMMING OF ANY TREES WHERE POSSIBLE. WHERE THE CONTRACTOR BELIEVES THE REMOVAL OR TRIMMING IS UNAVOIDABLE HE SHALL COORDINATE SUCH WORK WITH THE ENGINEER. TREE REMOVAL OR TRIMMING SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO SITE CLEARING AND RESTORATION.
- WHERE REMOVAL OF EXISTING FENCES PARALLEL TO THE CONSTRUCTION IS DEEMED NECESSARY BY THE CONTRACTOR, THE CONTRACTOR SHALL COORDINATE REMOVAL WITH THE ENGINEER. REMOVAL AND RESETTING OF FENCES SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO SITE CLEARING AND RESTORATION.
- REMOVAL AND RESETTING OF FENCES, CULVERT PIPES AND STRUCTURES, RESTORATION OF ALL SIDEWALKS, MAIL BOXES, NEWSPAPER BOXES, SIGNS, DITCHES, SHALES, ROAD SHOULDERS, DRIVES, AND ENTRANCES TO THEIR ORIGINAL SLOPES, GRADES, LOCATIONS, AND AS REQUIRED IN THE SPECIFICATIONS SHALL BE CONSIDERED SUBSIDIARY TO SITE CLEARING AND RESTORATION.
- TOP ELEVATIONS FOR MANHOLES ARE APPROXIMATE ONLY. MANHOLE TOPS SHALL BE SET AT 0.4 FEET ABOVE FINISH GRADE OR AT FINISHED GRADE AS INDICATED ON THE DRAWINGS. MANHOLES PLACED IN PAVED AREAS SHALL BE SET TO MATCH THE REPLACED PAVEMENT SURFACE.
- ALL TRENCHING AND BACKFILLING IS TYPE I OR TYPE III UNLESS NOTED OTHERWISE ON THE PLANS. ROAD CROSSING INDICATING TYPE I TRENCH AND BACKFILL SHALL BE TYPE I ONLY.
- ALL ELEVATIONS GIVEN IN THE PLANS ARE BASED ON USGS DATUM.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RESET ALL PROPERTY CORNERS DISTURBED DURING CONSTRUCTION WHICH ARE NOTED ON THE PLANS AND ANY ADDITIONAL CORNERS FOUND DURING CONSTRUCTION. THE LICENSED LAND SURVEYOR USED TO RESET PROPERTY CORNERS MUST BE APPROVED BY THE ENGINEER.

PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL FLAG AND REFERENCE ALL PROPERTY CORNERS SHOWN ON THE PLANS, AND VERIFY THESE IN THE FIELD IN THE PRESENCE OF THE ENGINEER AND THE CONTRACTOR'S SURVEYOR.

AFTER CONSTRUCTION AND BEFORE THE FINAL INSPECTION, A LETTER SIGNED BY A LICENSED LAND SURVEYOR CERTIFYING REPLACEMENT OF ALL DISTURBED PROPERTY CORNERS SHALL BE SUBMITTED TO THE ENGINEER.

ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO THE PRICE BID FOR SITE CLEARING AND RESTORATION.
- EASEMENTS AND RIGHT-OF-WAY PROVIDED BY THE OWNER FOR THE PROJECT ARE SHOWN IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ANY ADDITIONAL TEMPORARY EASEMENTS OR RIGHTS-OF-WAY THAT HE DESIRES TO USE IN COMPLETING THE WORK.
- WHERE CONNECTIONS ARE TO BE MADE TO EXISTING 8-INCH STUB, THE CONTRACTOR SHALL VERIFY THE LOCATION AND FLOW LINE ELEVATION OF THE EXISTING 8-INCH STUB PRIOR TO BEGINNING CONSTRUCTION.
- THE SANITARY SEWER IS TO BE CONSTRUCTED ADJACENT TO EXISTING UNDERGROUND TELEPHONE CABLES. THE CONTRACTOR SHALL COORDINATE THIS CONSTRUCTION WITH ANY NECESSARY TELEPHONE CABLE RELOCATION. ALL TELEPHONE CABLES SHALL BE LOCATED BY CONTACTING THE KANSAS ONE-CALL SYSTEM AT (316) 687-2470.
- WHERE THE PLANS CALL FOR AN 8-INCH OR LARGER PIPE STUB, THE STUB SHALL EXTEND 5 FEET OUTSIDE THE MANHOLE WALL UNLESS DIRECTED OTHERWISE BY THE ENGINEER. THE END OF THE STUB SHALL BE PLUGGED USING GASKETED CAP AND SHALL BE SET AT AN ELEVATION 0.03 FEET HIGHER THAN THE STUB FLOWLINE AT THE MANHOLE.
- LOCATION OF ENDS OF STUBS/RISERS SHALL BE MARKED BY FASTENING 2-INCH WIDE METALLIC DETECTABLE TAPE TO THE END OF THE PIPE THEN WRAPPED OR OTHERWISE FASTENED AT 3-FOOT INTERVALS TO 1-INCH O.D. PVC PLASTIC PIPE EXTENDING FROM THE PIPE TO THE GROUND SURFACE SO THAT THE TAPE IS VISIBLE WHEN THE PROJECT IS COMPLETED. METALLIC DETECTABLE TAPE SHALL BE "MagnaTec" AS MANUFACTURED BY THOR ENTERPRISES, INC., WATERLOO, WISCONSIN OR "LINEGUARD TYPE III" AS MANUFACTURED BY LINEGUARD, INC., CHICAGO, ILLINOIS OR APPROVED EQUAL.

See last 2 sheets
5-4
5-5



MAIN 7 (FUTURE)
SPRING CREEK INTERCEPTOR
(PROJECT NO. 34-81051-14-024)

MAIN 1 (EXISTING)
SPRING CREEK INTERCEPTOR
(PROJECT NO. 34-81051-3-024)

AERIAL PHOTO PROVIDED BY M. J. HARDEN ASSOCIATES, INC.
FLOWN MARCH, 1981

SEWER LINE SCHEDULE			
LINE NO.	STATION TO STATION	MANHOLES	SHEET NO.
1	0+00.00 TO 7+90.00	EX. MH. 1-1 TO 1-2	8
1	7+90.00 TO 12+07.60	1-2 THRU 1-4	8A
2	* OMITTED		
3	0-12.58 TO 2+77.31	EX. MH TO 3-1	9
3	2+77.31 TO 9+50.72	3-1 THRU 3-4	10
3	9+50.72 TO 17+84.44	3-4 THRU 3-7	11
3	17+84.44 TO 21+02.69	3-7 THRU 3-8	12
4	0+00.00 TO 4+69.58	3-2, 4-1 THRU 4-3	12
4	4+69.58 TO 6+19.72	4-3 TO 4-4	13
5	0+00.00 TO 8+49.42	3-4, 5-1 THRU 5-3	13
6	0+00.43 TO 9+40.50	EX. MH. 6-1 THRU 6-3	14
6	9+40.50 TO 12+39.99	6-3 TO 6-4	15

NOTE:
The Contractor shall contact the County (733-0202) before connecting new sewer pipe to the existing sewerage system. After installing new connections, the Contractor shall install & maintain a mechanical plug to prevent water or debris from entering the existing sewer until the new construction is cleaned, televised and has been accepted.

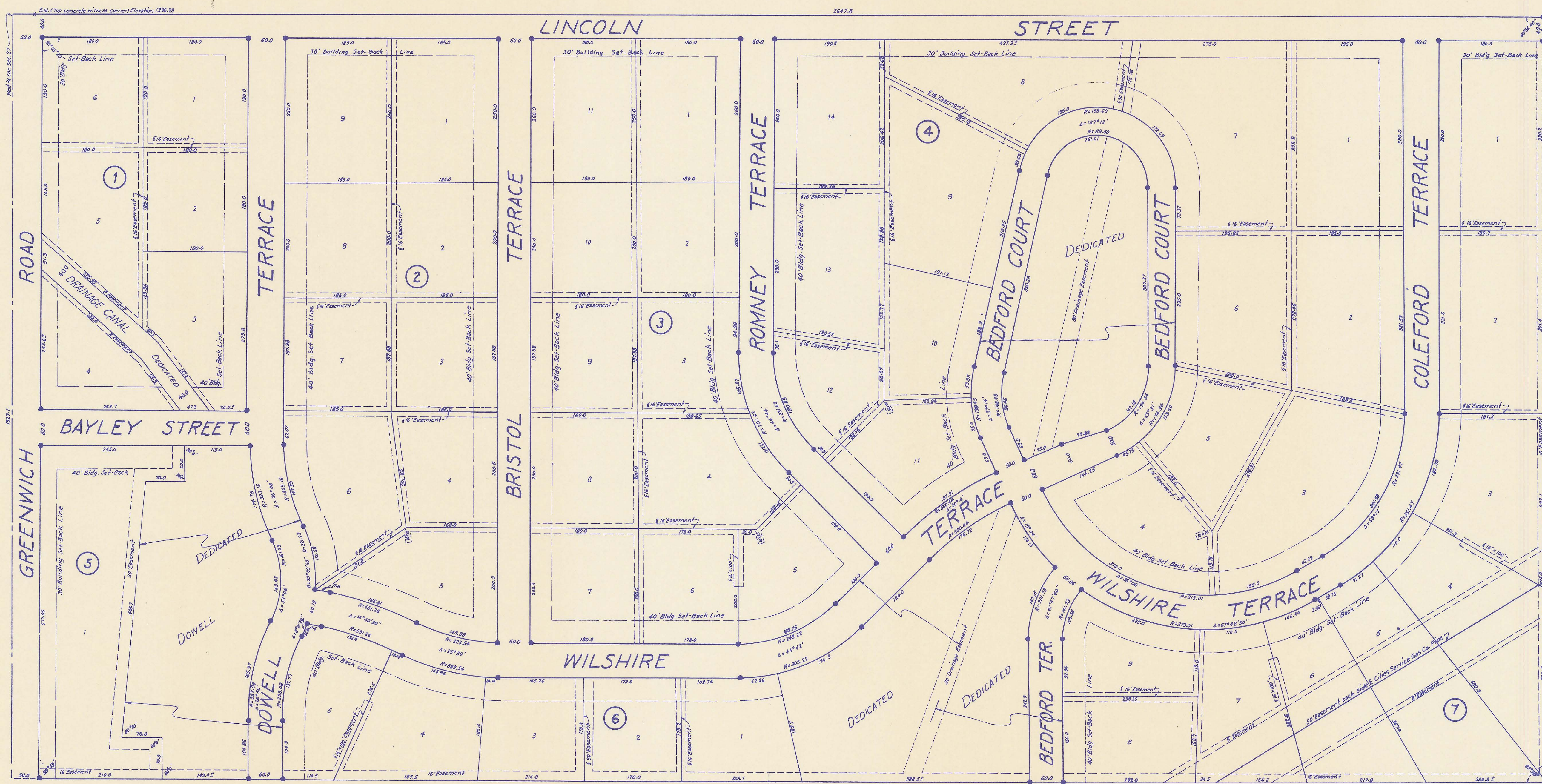
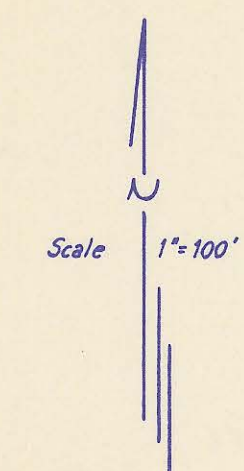
The water used for cleaning shall not be added to the flow of the existing sewer. The cleaning or otherwise accumulated water shall be pumped or otherwise removed prior to televising.

RISER LOCATION TABLE						DISTANCE FROM NEAREST MH	
SADDLE LOCATION						DOWNSTREAM (FT)	UPSTREAM (FT)
NO.	LINE NO.	STATION	BLOCK NO.	LOT NO.	DIRECTION	DOWNSTREAM (FT)	UPSTREAM (FT)
1	1	6+35	2	5	RT	316.7	63.3
2	3	6+84	2	4	LT	267.7	112.3
3	3	9+15	3	7	RT	36.7	343.3
4	3	11+60	3	4	LT	6.9	208.3
5	3	11+72	3	5	RT	294.2	5.1
6	3	14+50	4	11	RT	16.2	289.1
7	3	14+55	4	12	LT	11.2	288.7
8	3	16+27	4	10	RT	157.4	150.8
9	3	16+22	4	13	LT	162.4	155.8
10	3	17+90	4	13	LT	312.7	5.6
11	3	18+23	4	9	RT	219.7	38.6
12	3	19+22	4	14	LT	180.7	137.6
13	4	20+57	4	8	RT	45.7	272.6
14	4	0+68	2	6	LT	152.1	68.0
15	4	2+70	2	3	RT	135.1	49.9
16	4	4+12	2	7	LT	58.0	6.9
17	4	4+25	2	2	RT	45.0	19.9
18	4	4+25	2	2	RT	45.0	19.9
19	5	6+25	3	11	LT	225.0	154.6
20	5	0+67	3	8	LT	283.0	67.0
21	5	2+45	3	9	LT	105.0	245.0
22	5	2+78	3	3	RT	72.0	278.0
23	5	5+24	3	10	LT	326.0	53.6
24	5	4+94	3	2	RT	356.0	23.6
25	5	6+95	3	1	RT	155.0	225.0

RECORD DRAWING
March 3, 1982

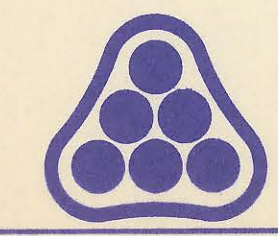
	Updated per Current Standards		GM 9/1988
	No.	Revision	By Date
	SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER		
	KEY MAP SANITARY SEWER LATERALS WINDSOR PARK LATERAL SEWER DISTRICT PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS		
Designed by	KLR, LM, RFJ	Job No.	81051-14
Drawn by	SC	Date	Jan, 1982
			Sht. 2 of 15

Windsor Park Addition to Sedgwick County, Kansas



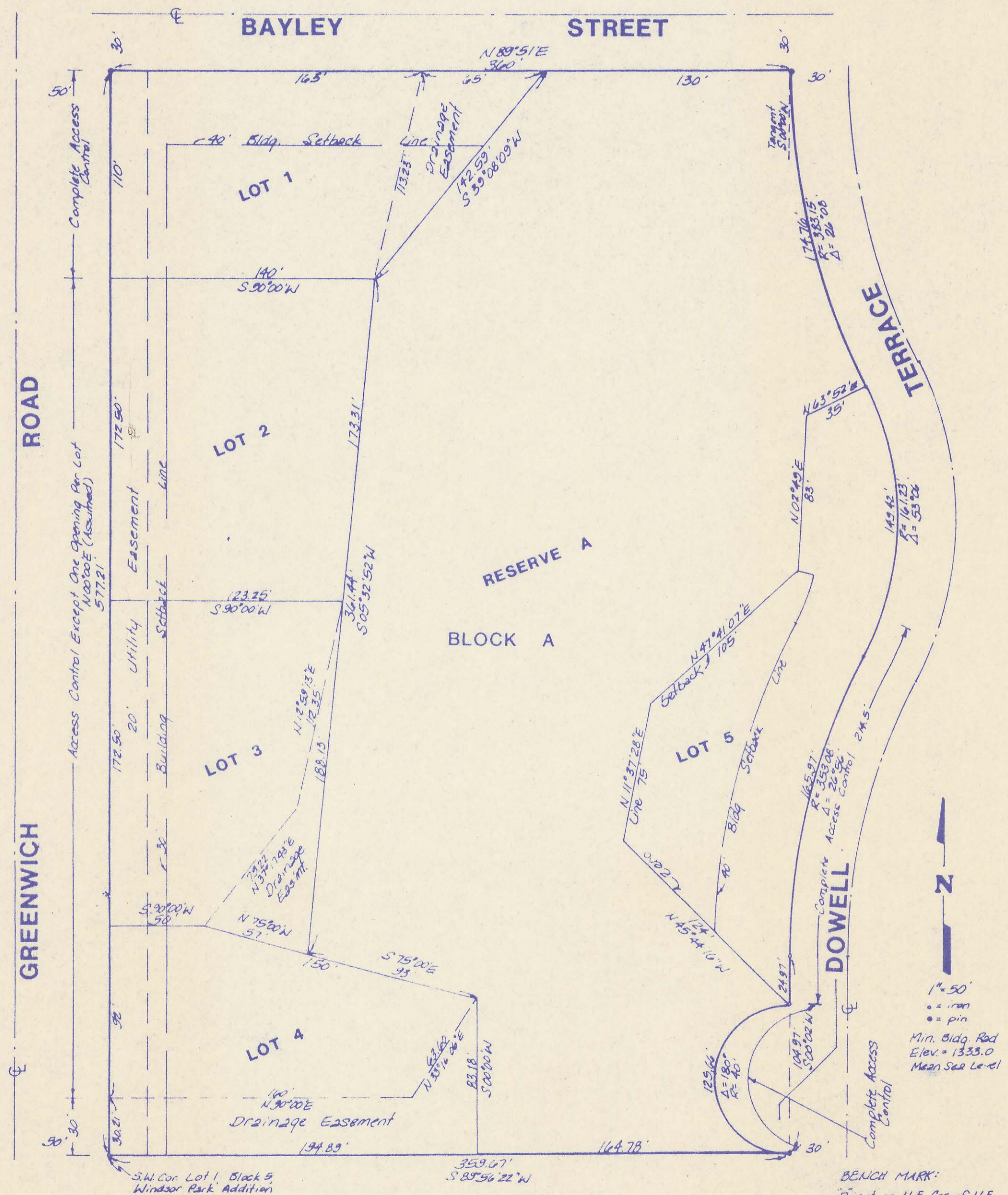
THIS PLAT IS REPRODUCED HERE FOR INFORMATION PURPOSES ONLY AND IS NOT PART OF THE DESIGN PLAN.

1 Updated per Current Standards		GM	2/1988
No.	Revision	By	Date
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER			
PLAT MAP (WINDSOR PARK ADDITION) SANITARY SEWER LATERALS WINDSOR PARK LATERAL SEWER DISTRICT			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
Designed by	Job No. 81051-14	Sht. 3 of 15	
Drawn by	Date Jan, 1982		



BALL ADDITION

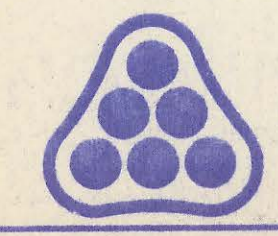
SEDGWICK COUNTY, KANSAS



THIS PLAT IS REPRODUCED HERE FOR INFORMATION PURPOSES ONLY AND IS NOT PART OF THE DESIGN PLAN.

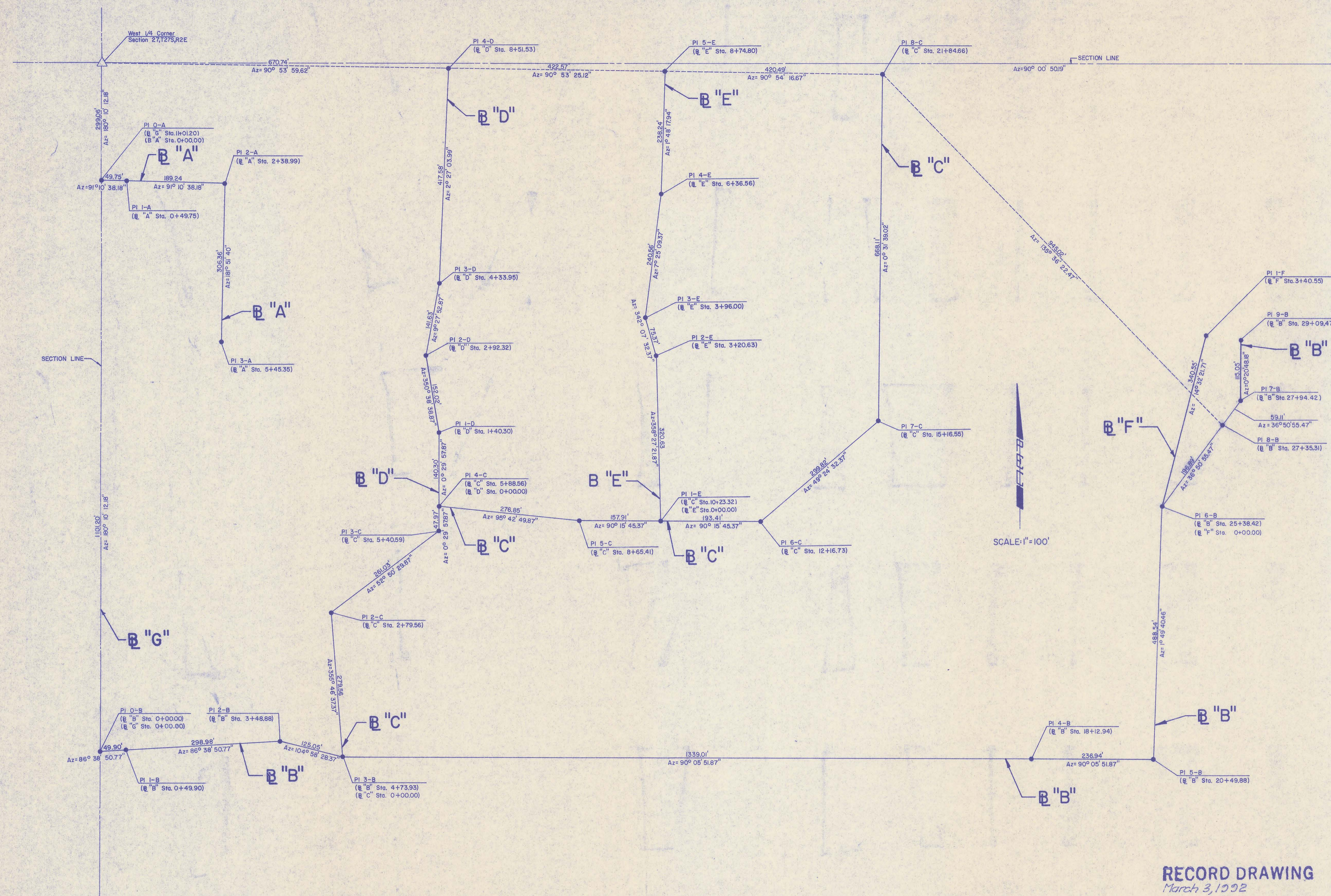
BENCH MARK:
 [] cut on N.E. Cor. of N.E. Guard Post of concrete box culvert approx. 100' S. of S.W. Cor. Lot 4, Blk. A, Ball Addition. Elev. = 1334.44 M.S.L.
 [] cut on N.E. Cor. of N.E. Guard Post of Double Box structure approx. 575' S. of Union on Greenwich Rd. Elev. = 1334.245 M.S.L.

1 Replat of part of Windsor Park Addition		RJ 3/1/89
Revised	By	Date
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER		
PLAT MAP (BALL ADDITION) SANITARY SEWER LATERALS WINDSOR PARK LATERAL SEWER DISTRICT		
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS		
Designed by	Job No. 81051-14	Sh. 3A of 15
Drawn by	Date March, 1989	



P.1 REFERENCE TIES

- PI 0A NAIL AND BOTTLECAP
95.50' NE, NAIL AND SHINER IN SOUTH EDGE ASPHALT AT CENTER LINE CULVERT
51.47' E, P.1.4 CHAIN LINK FENCE
104.33' NW, NAIL AND SHINER IN FENCE POST AT SOUTH SIDE OF DRIVEWAY
- PI 1A 1/2" REBAR
52.06' ESE, NAIL AND SHINER IN NORTH FACE FENCE POST
96.62' SW, SOUTHWEST CORNER BUILDING
9.88' NNW, NAIL AND SHINER IN SOUTH FACE UTILITY POLE
- PI 2A 5/8" REBAR
30.25' N, NAIL AND SHINER IN EAST FACE UTILITY POLE
46.92' SE, NAIL AND SHINER IN SOUTHWEST FACE 30" COTTONWOOD
64.75' SSW, NAIL AND SHINER IN NORTHEAST CORNER FENCE CORNER POST
- PI 3A 5/8" REBAR
= SOUTHWEST CORNER LOT 5, BLOCK 1
- PI 0B NAIL AND BOTTLECAP
1330.26' N, WEST 1/4 CORNER SECTION 27
103.22' SW, CHISELED "X" IN NORTHEAST CORNER OF WEST CURB TO
BRIDGE ON GREENWICH ROAD
46.41' W, NAIL AND SHINER IN SOUTH FACE UTILITY POLE
- PI 1B 1/2" REBAR
7.16' W, SOUTHWEST CORNER STONE COLUMN
5.26' S, 4" STEEL FENCE POST
49.89' W, PI 0B (NAIL AND BOTTLECAP)
- PI 2B 1/2" REBAR
10.59' S, NAIL AND SHINER IN NORTHEAST FACE 8" OSAGE ORANGE
38.79' NW, NAIL AND SHINER IN NORTH FACE 30" COTTONWOOD
29.31' NNW, NAIL AND SHINER IN EAST FACE 24" COTTONWOOD
- PI 3B 1/2" REBAR
23.65' N, NAIL AND SHINER IN WEST FACE 18" MAPLE
22.61' NE, NAIL AND SHINER IN NORTHWEST FACE 12" MAPLE
51.46' W, NAIL AND SHINER IN SOUTH FACE FENCE POST
- PI 4B NAIL
14.00' N, 5/8" REBAR
96.52' SW, NAIL AND SHINER IN NORTH FACE 12" OSAGE ORANGE
21.51' NW, NAIL AND SHINER IN WEST FACE UTILITY POLE
- PI 5B 1/2" REBAR
18.68' N, NAIL AND SHINER IN EAST FACE UTILITY POLE
42.05' NE, NAIL AND SHINER IN NORTHWEST FACE 18" OSAGE ORANGE
58.49' NE, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE
- PI 6B 1/2" REBAR
38.15' SE, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE
46.14' SW, NAIL AND SHINER IN EAST FACE 18" COTTONWOOD
59.00' NW, NAIL AND SHINER IN NORTH FACE 18" COTTONWOOD
- PI 7B 1/2" REBAR
59.11' NNE, PI 7B (5/8" REBAR)
26.07' ENE, NAIL AND SHINER IN SOUTHWEST FACE 14" ELM
52.84' NE, NAIL AND SHINER IN EAST FACE 12" RUSSIAN OLIVE
- PI 8B 5/8" REBAR
57.71' NE, NAIL AND SHINER IN SOUTHWEST FACE 18" COTTONWOOD
59.11' SW, PI 8B (1/2" REBAR)
42.59' W, NAIL AND SHINER IN NORTH FACE 12" RUSSIAN OLIVE
- PI 9B TACKED HUB
62.65' SE, NAIL AND SHINER IN NORTHEAST FACE 11" COTTONWOOD
9.50' S, NAIL AND SHINER IN EAST FACE 12" MAPLE
50.30' WNW, NAIL AND SHINER IN NORTH FACE 12" MAPLE
- PI 10B 5/8" REBAR
60.80' ESE, 5/8" REBAR = PT EAST LINE DOWELL TERRACE
51.88' W, NAIL AND SHINER IN NORTH FACE 24" MUNDA
53.82' NNW, NAIL AND SHINER IN EAST FACE 16" PINE
- PI 11B 1/2" REBAR
20.29' NE, NAIL AND SHINER IN SOUTH FACE UTILITY POLE
21.20' SE, SOUTHWEST CORNER GARAGE
21.44' NW, NAIL AND SHINER IN SOUTH FACE 12" CRABAPPLE
- PI 12B 1/2" REBAR
20.49' E, NAIL AND SHINER IN UTILITY POLE
17.44' SW, NAIL AND SHINER IN EAST FACE 18" RUSSIAN OLIVE
- PI 13B 1/2" REBAR
47.85' NE, NAIL AND SHINER IN SOUTH FACE 18" OAK
12.53' SSW, NAIL AND SHINER IN NORTHWEST CORNER FENCE
60.17' NNW, NAIL AND SHINER IN EAST FACE 18" COTTONWOOD
- PI 14B 1/2" REBAR
45.76' WNE, SOUTHWEST CORNER HOUSE FOUNDATION WALL
25.16' WSW, NAIL AND SHINER IN SOUTH FACE UTILITY POLE
47.75' NW, SOUTHWEST CORNER HOUSE FOUNDATION WALL
- PI 15B 1/2" REBAR
38.41' NE, NAIL AND SHINER IN SOUTH FACE UTILITY POLE
68.56' SSW, NAIL AND SHINER IN NORTHWEST CORNER POST
18.12' NNW, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE
- PI 16B NAIL IN ASPHALT
85.03' SE, NAIL AND SHINER IN SOUTH FACE 16" ASH
13.25' S, NAIL AND SHINER IN WEST FACE UTILITY POLE
57.21' SW, NAIL AND SHINER IN SOUTHWEST FACE 14" ASH
- PI 17B 1/2" REBAR
29.52' N, NAIL AND SHINER IN WEST FACE UTILITY POLE
44.37' S, NAIL AND SHINER IN EAST FACE 8" CRABAPPLE
86.40' NW, NORTHEAST CORNER HOUSE
- PI 18B 1/2" REBAR
76.23' NE, NAIL IN NORTHWEST CORNER OF FENCE CORNER POST
109.48' E, SOUTHWEST CORNER HOUSE
62.47' S, NAIL AND SHINER IN WEST FACE UTILITY POLE
- PI 19B NAIL IN ASPHALT
56.15' SE, NAIL AND SHINER IN CENTER LINE LINCOLN
29.86' SSW, NAIL AND SHINER IN NORTHWEST FACE UTILITY POLE
42.20' SW, NAIL AND SHINER IN CENTER LINE LINCOLN
- PI 20B 1/2" REBAR
17.72' SE, NORTHEAST CORNER CONCRETE FOUNDATION WALL
11.26' S, NORTHWEST CORNER CONCRETE FOUNDATION WALL
9.76' WSW, NAIL AND SHINER IN NORTH FACE UTILITY POLE
- PI 21B 1/2" REBAR
89.37' NE, NAIL IN NORTHWEST CORNER FENCE CORNER POST
7.38' S, NAIL AND SHINER IN EAST FACE FENCE CORNER POST
45.62' NW, NAIL AND SHINER IN EAST FACE 36" ELM
- PI 22B 1/2" REBAR
23.55' E, NAIL AND SHINER IN SOUTH FACE UTILITY POLE
89.32' SE, NAIL IN NORTHWEST CORNER FENCE CORNER POST
31.80' S, NAIL AND SHINER IN EAST FACE 36" ELM
- PI 23B 1/2" REBAR
6.81' E, NAIL AND SHINER IN SOUTH FACE 12" OLIVE BUSH
36.32' SSW, NAIL AND SHINER IN EAST FACE UTILITY POLE
89.09' NNW, NAIL AND SHINER IN WEST FACE UTILITY POLE
- PI 24B NAIL IN ASPHALT
90.50' SE, NAIL AND SHINER IN NORTH FACE 16" ASH
23.30' SW, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE
55.09' W, NAIL AND SHINER IN CENTER LINE LINCOLN
- PI 25B 1/2" REBAR
19.58' ESE, NAIL AND SHINER IN NORTH FACE 36" SILVER MAPLE
32.74' SSW, 2 NAILS IN SOUTHWEST FACE 36" BARN REDWOOD

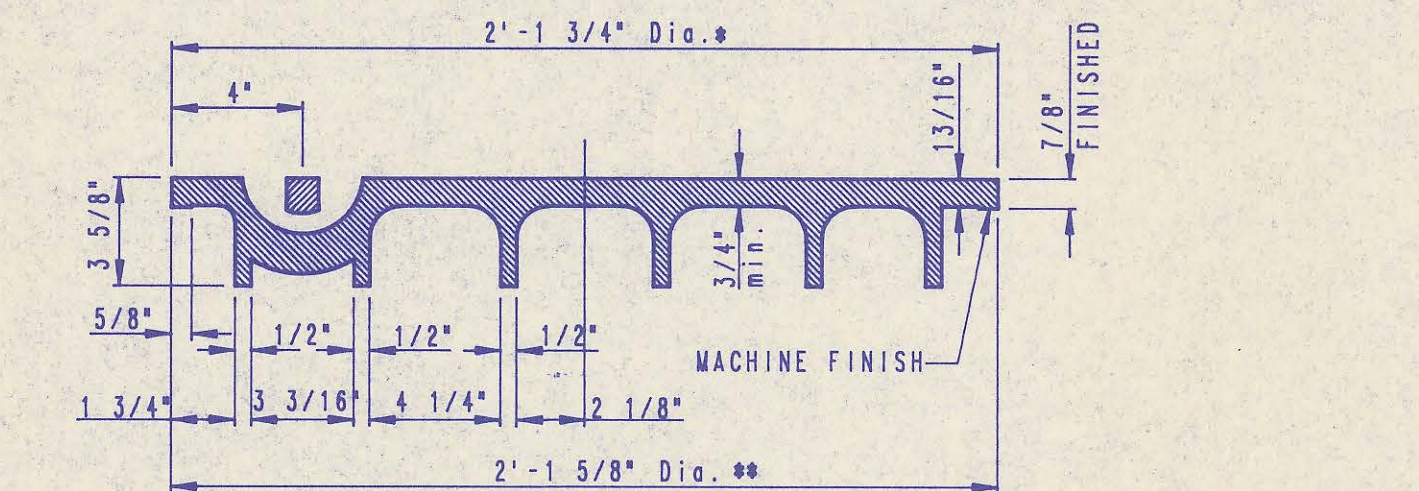
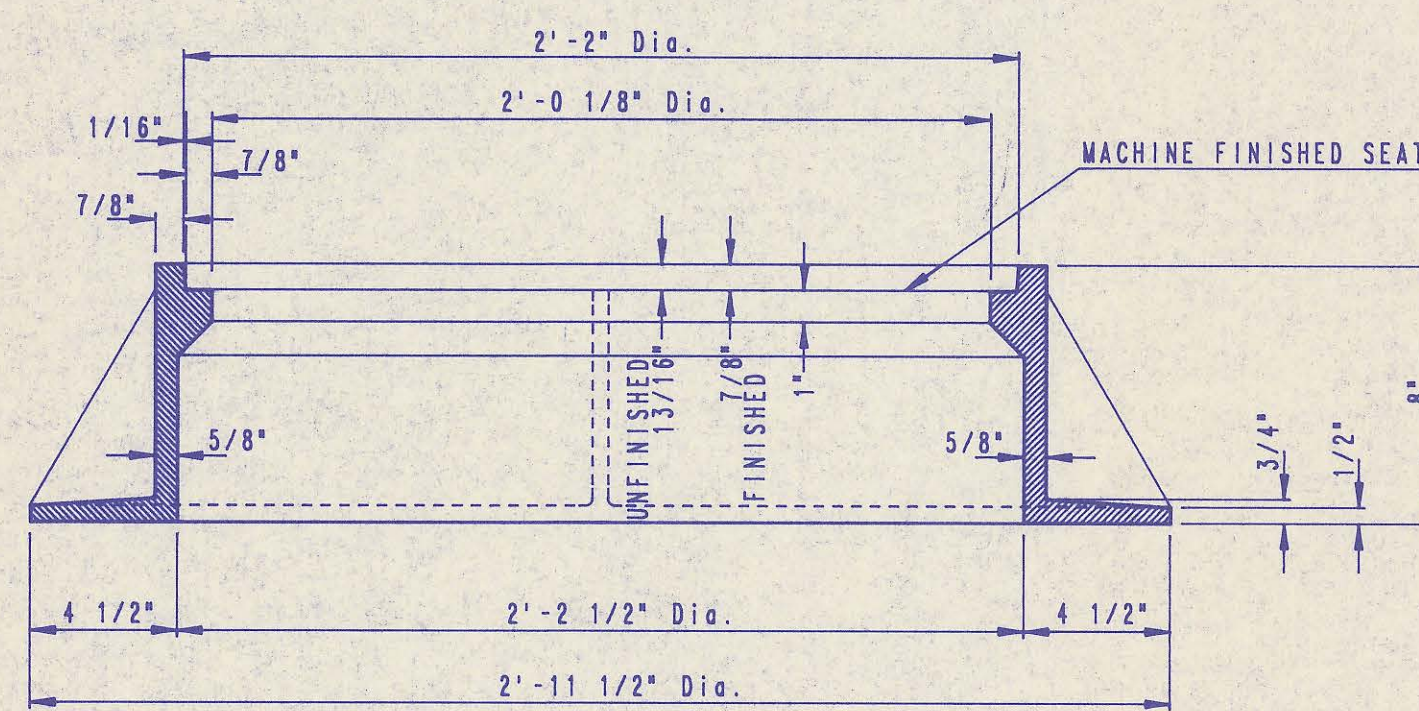
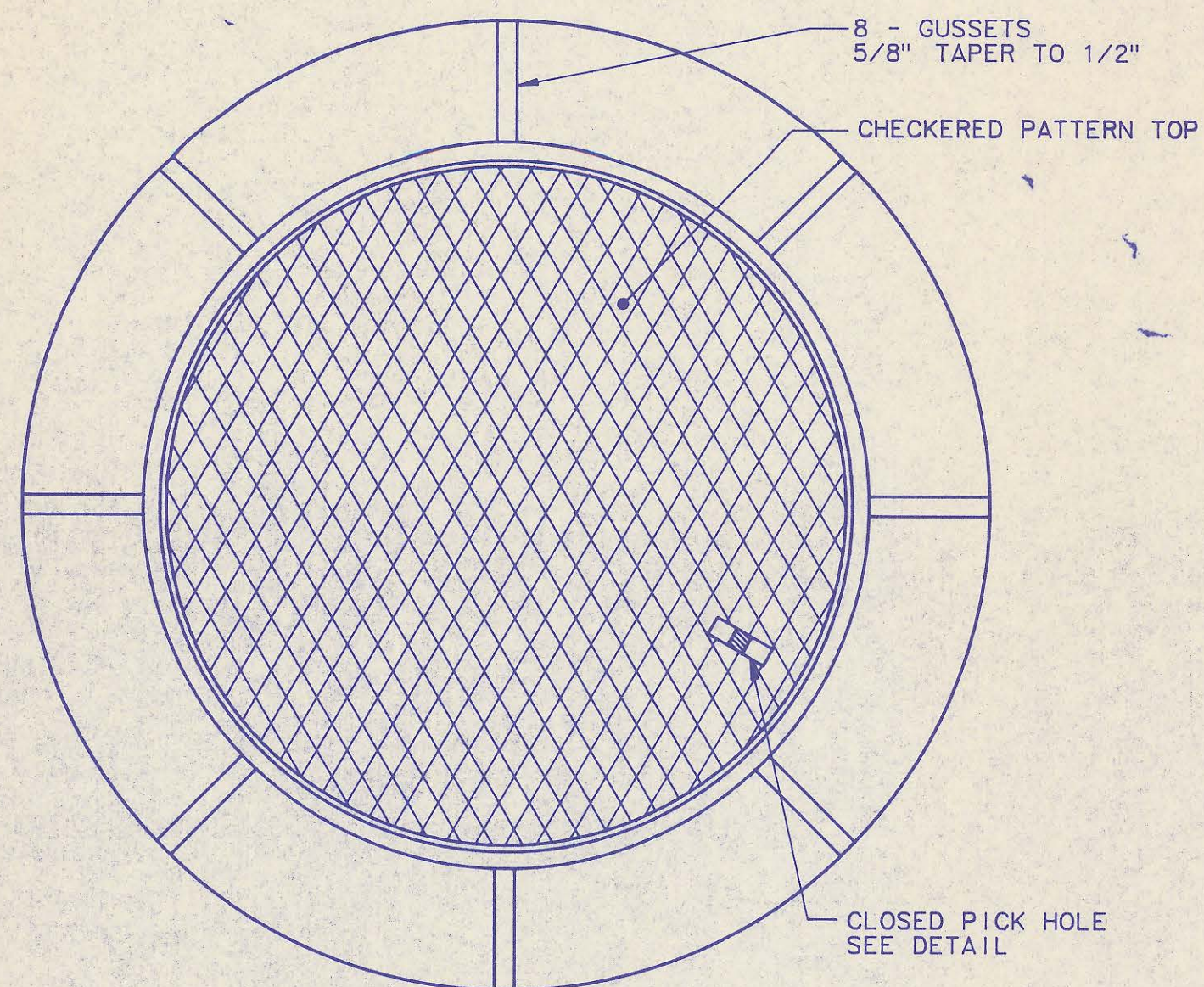


SCALE: 1"=100'

RECORD DRAWING
March 3, 1988



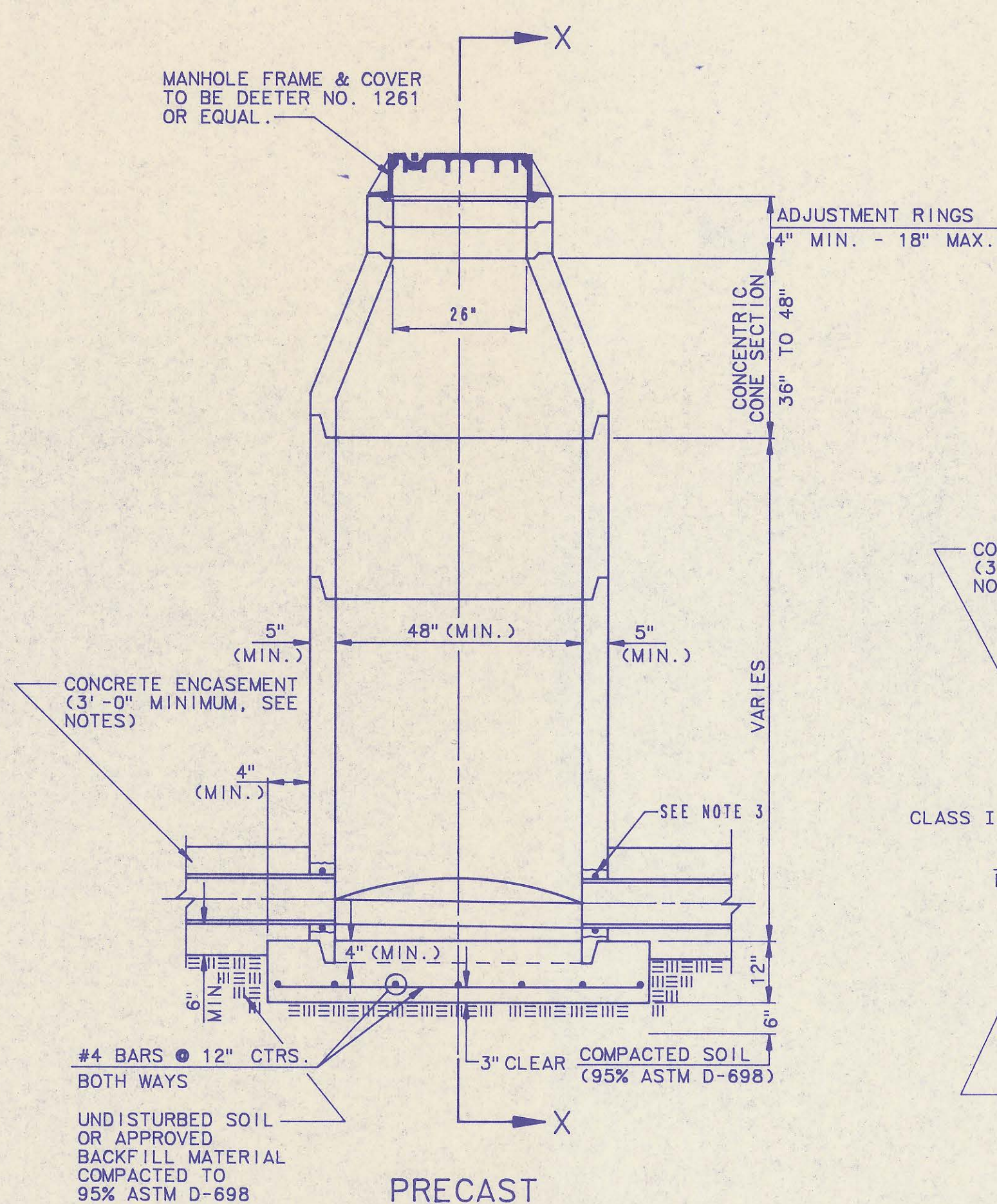
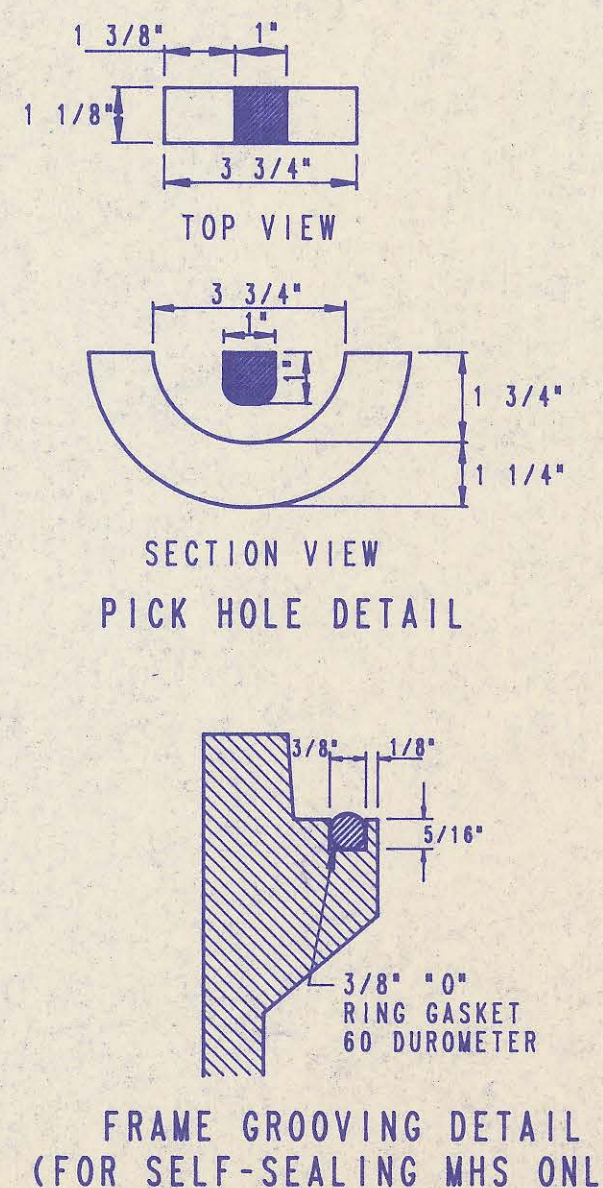
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BASELINE KEY MAP SANITARY SEWER LATERALS WINDSOR PARK LATERAL SEWER DISTRICT PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
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		Sht.	4 of 15



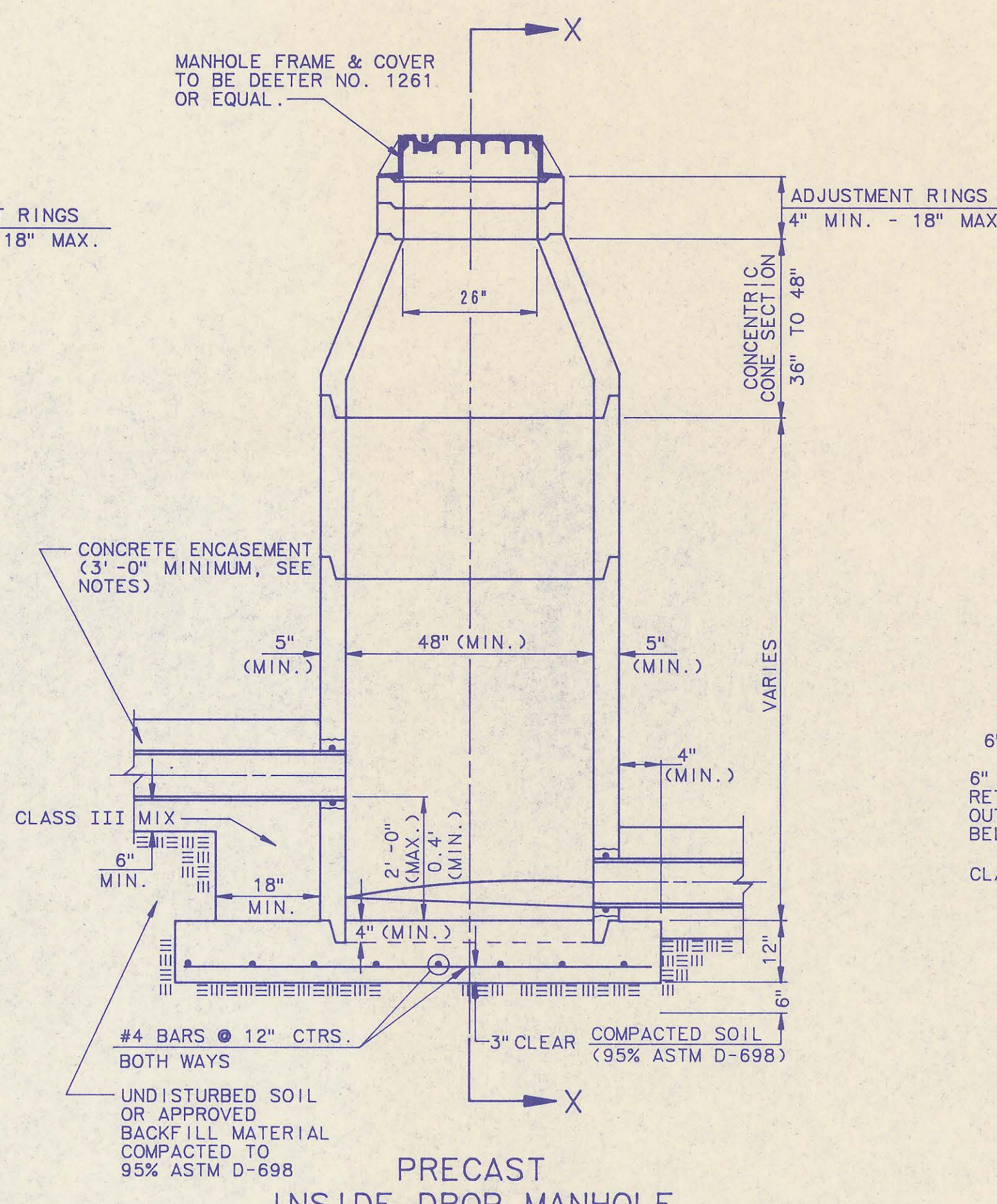
MANHOLE FRAME AND COVER
(TOTAL WEIGHT = 430 LBS.)

MANHOLE FRAME AND COVER NOTES

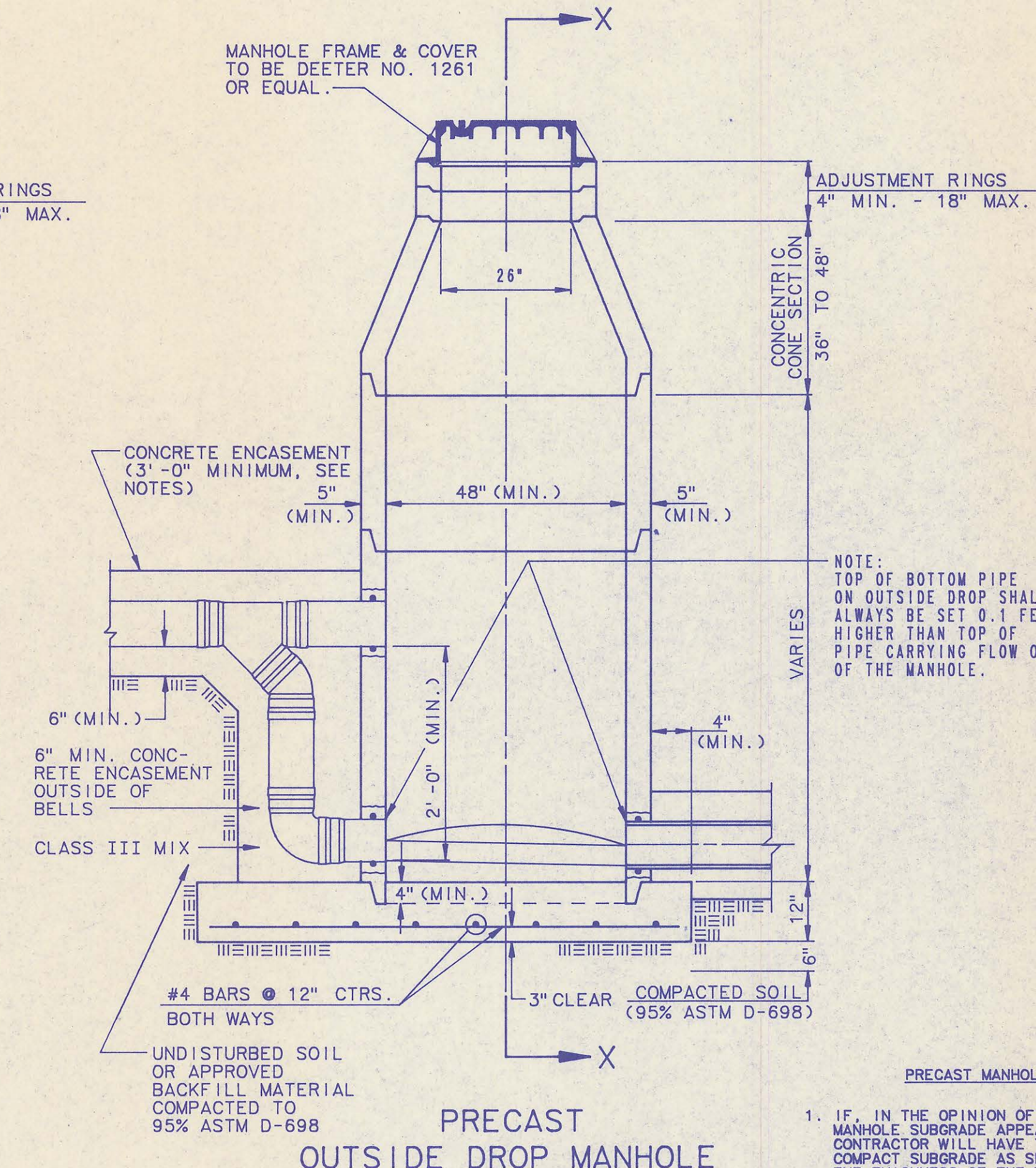
- CAST IRON MANHOLE FRAME AND COVER SHALL CONFORM TO ASTM A-48, CLASS 35B, OR BETTER.
- THE FRAMES AND COVERS SHALL BE OF A NONROCKING TYPE OR WITH MACHINED BEARING SURFACES SO FITTING PARTS WILL NOT RATTLE OR ROCK UNDER TRAFFIC.
- MANHOLE CASTINGS SHALL BE DEETER FOUNDRY (INC. NO. 1261) OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED IN THE SPECIAL CONDITIONS. (MINIMUM WT. - 430 LBS.) ALL MANHOLE CASTINGS, REGARDLESS OF TYPE, SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS MANHOLE TYPES.
- GRIND ALL BURRS SMOOTH, CLEAN THOROUGHLY, THEN APPLY SHOP COAT OF ASPHALT BASE PAINT.
- THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. THE ENGINEER SHALL RETAIN THE RIGHT TO REJECT CASTINGS NOT CONFORMING TO THE SPECIFICATIONS OR THE APPROVED SHOP DRAWINGS.
- WHERE SELF-SEALING MANHOLE FRAMES ARE SPECIFIED ON THE PLANS, THE MANHOLE FRAME SHALL BE FURNISHED WITH AN APPROVED "O" RING GASKET GROOVED INTO THE BEARING SURFACE OF THE MANHOLE FRAME (SEE DETAIL). THE "O" RING GASKET SHALL NOT BE INSTALLED IN THE MANHOLE FRAME UNTIL AFTER FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT BY THE ENGINEER. THE CONTRACTOR SHALL SUPPLY TO THE OWNER ONE (1) REPLACEMENT "O" RING GASKET FOR EACH SELF-SEALING MANHOLE SPECIFIED.



PRECAST STANDARD MANHOLE TYPE "A"



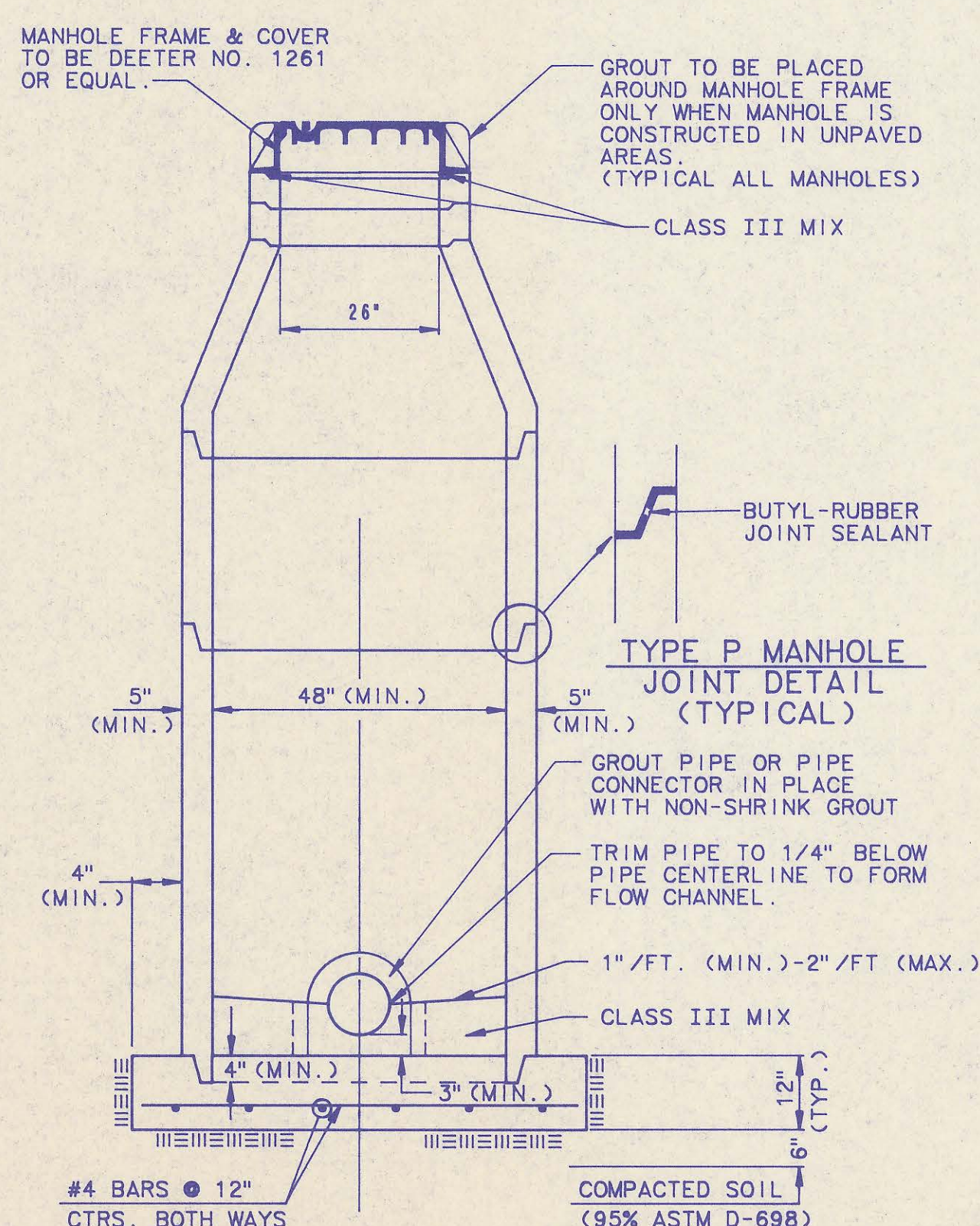
PRECAST INSIDE DROP MANHOLE TYPE "B"



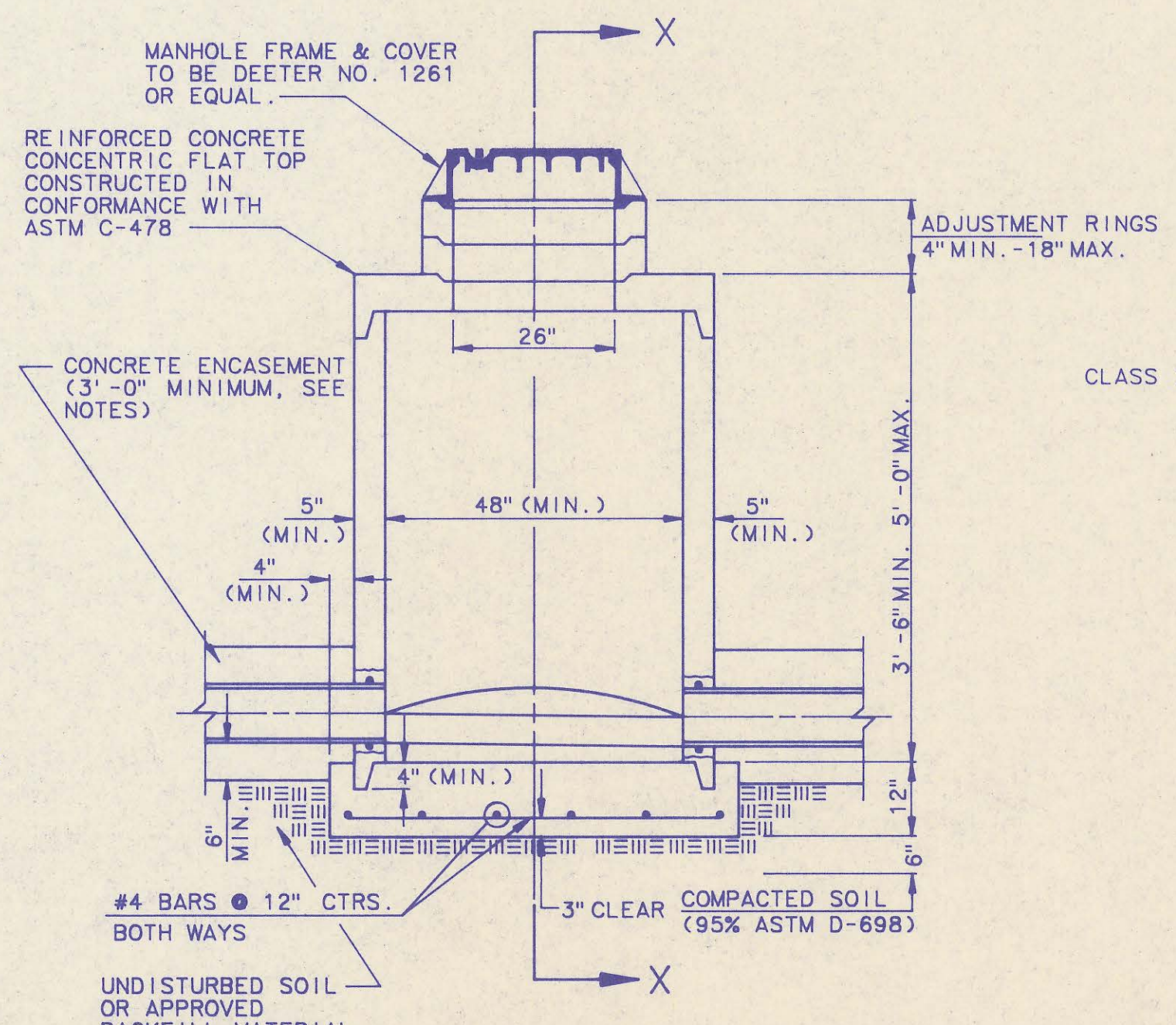
PRECAST OUTSIDE DROP MANHOLE TYPE "C"

PRECAST MANHOLE NOTES

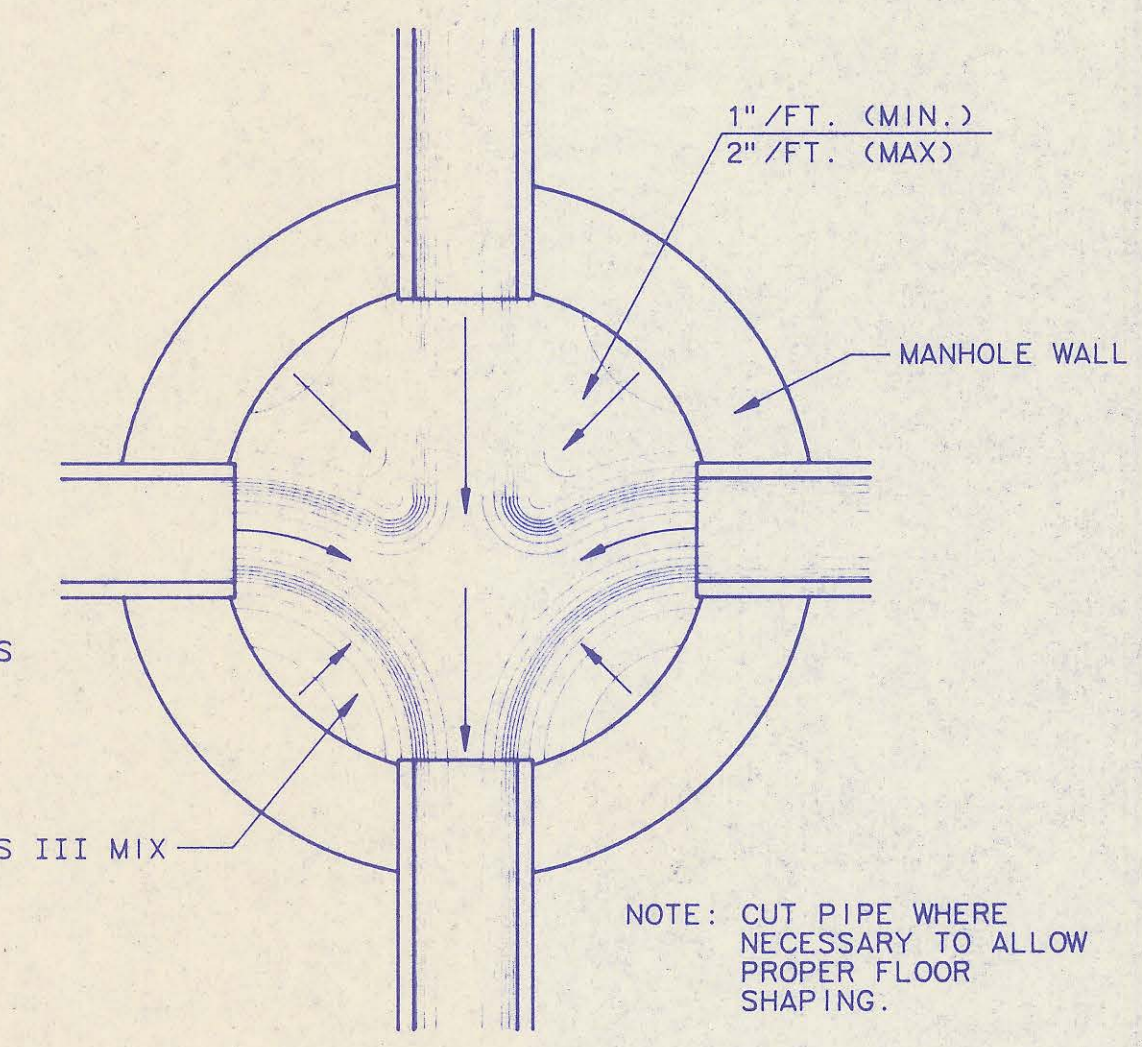
- IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
- STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
- APPROVED FLEXIBLE WATERSTOP GASKETS WHICH MEET OR EXCEED THE TEST REQUIREMENTS OF ASTM C-923 SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN PLASTIC PIPE IS USED. SEWER PIPE EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL.
- THE MANHOLE FRAME SHALL BE SEATED ON AN APPROVED BUTYL-RUBBER SEALANT TO PROVIDE A WATER-TIGHT SEAL BETWEEN THE MANHOLE ADJUSTMENT RING AND THE MANHOLE FRAME.
- GASKETED PIPE CAPS SHALL BE PROVIDED BY THE PIPE SUPPLIER.
- ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
- 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.
- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C479 AS MODIFIED BY THE SPECIFICATIONS.
- CONCRETE FOR MANHOLE BASES SHALL BE CLASS I AS DESCRIBED IN THE SPECIFICATIONS.
- PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO MANHOLE BASE.
- MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5" INSIDE DIAMETER (MIN.)
- INSIDE DIAMETER OF FIVE-FOOT DIAMETER PRECAST MANHOLES SHALL REMAIN CONSTANT TO THE LOCATION OF THE REDUCING FLAT TOP WHICH CONNECTS THE FOUR-FOOT DIAMETER CONE SECTION TO THE FIVE-FOOT DIAMETER MANHOLE BARREL.



SECTION X (TYPICAL)



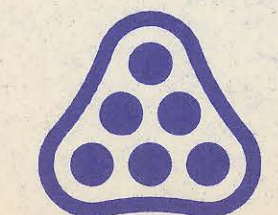
PRECAST SHALLOW MANHOLE TYPE "D"

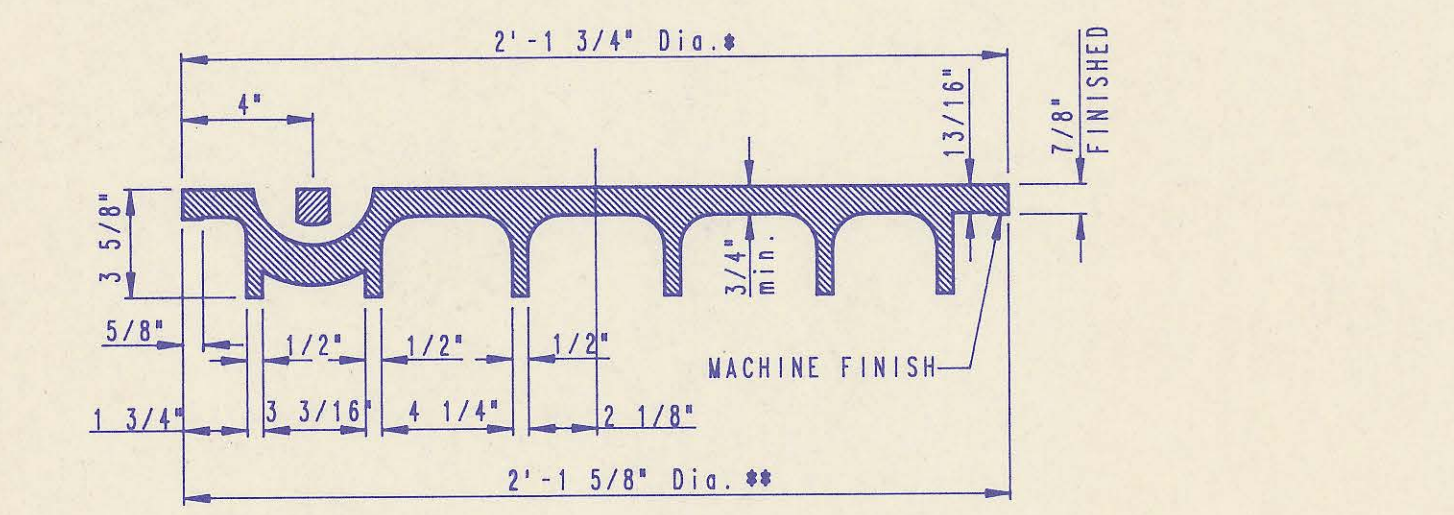
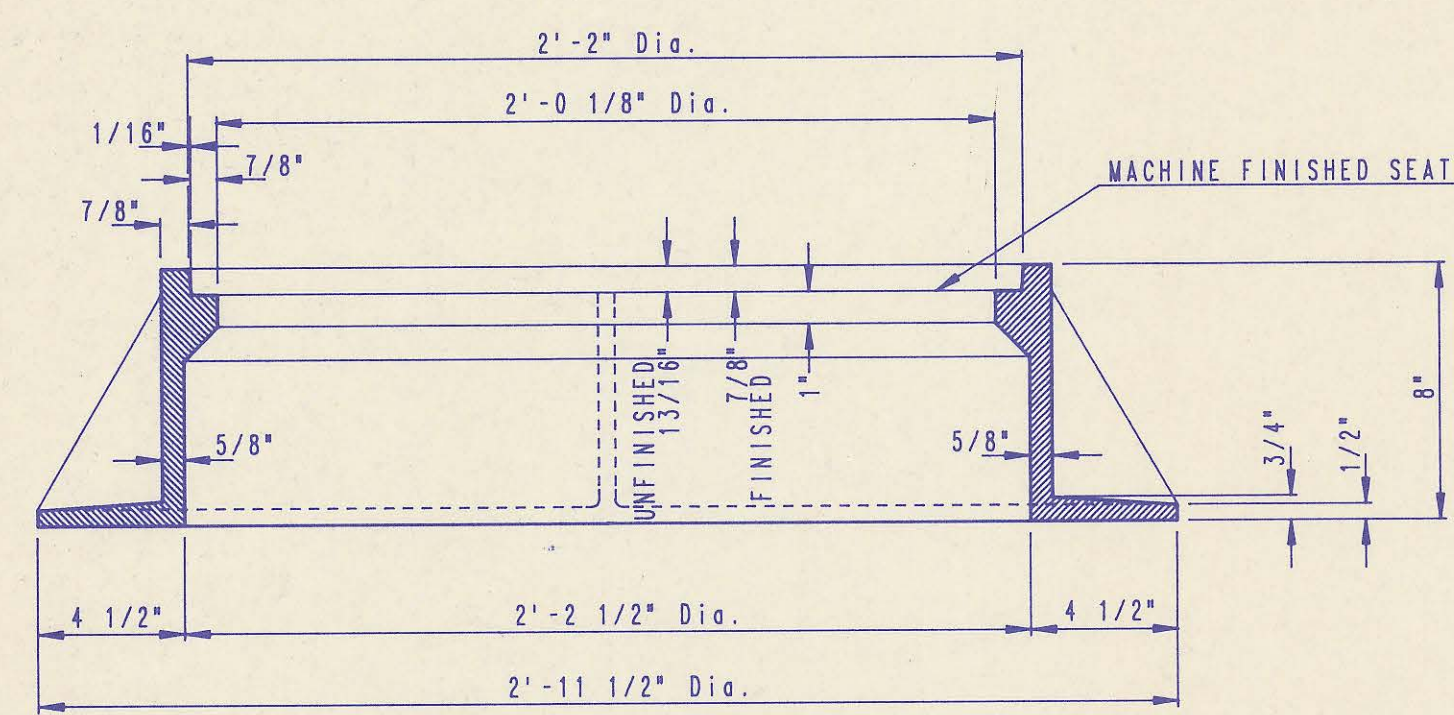
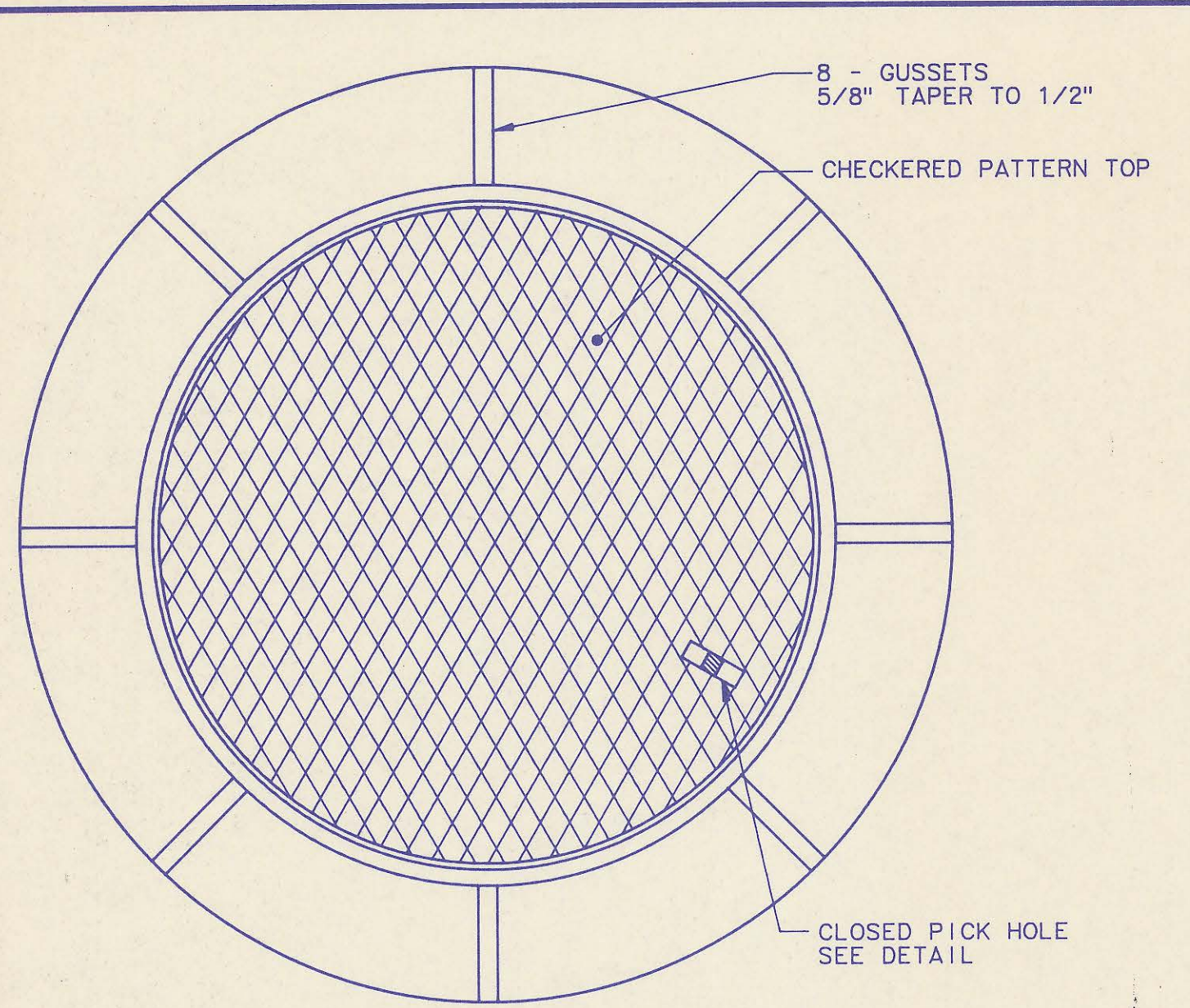


TYPICAL MANHOLE FLOOR SHAPPING

DRAWING NAME: Precast MH Sids
LOCATION: LOCAL DWG.#903
PROJECT: WICHITA, KANSAS
DATE LAST WORKED ON: JUL. 16, 1991
SPECIAL INSTRUCTIONS:

1	Manhole Frame and Cover Note 1	RJ	7/16/91
No.	Revision	By	Date
PRECAST MANHOLE DETAILS ADOPTED AS STANDARD DESIGN			
BY SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
Designed by DLW	Job No.	Sht. 5 of 17	
Drawn by DMM, TDS	Date NOVEMBER, 1990		

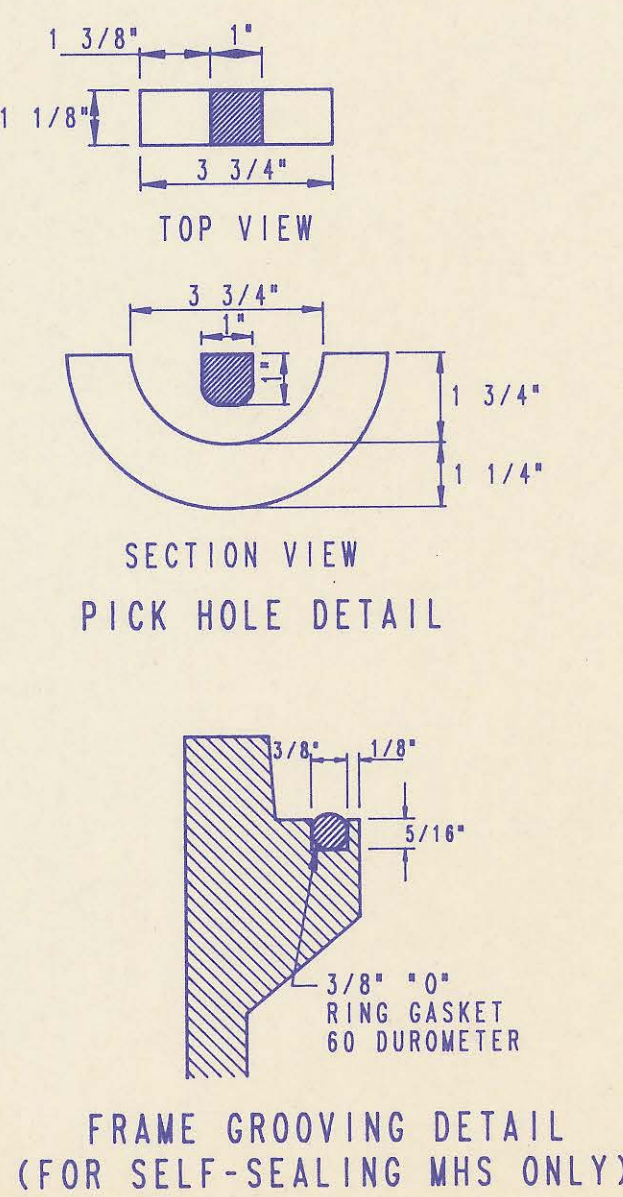




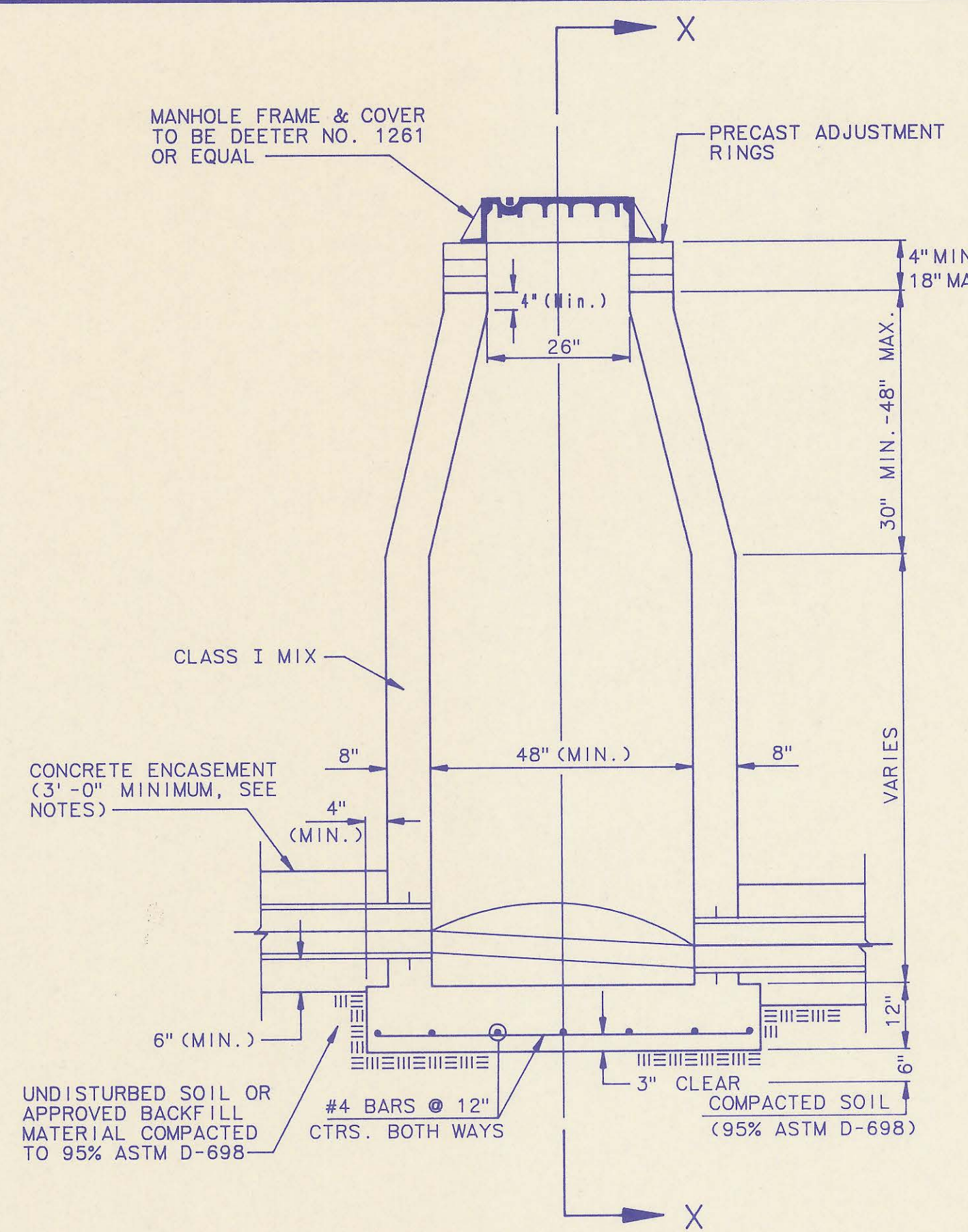
MANHOLE FRAME AND COVER
(TOTAL WEIGHT = 430 LBS.)

MANHOLE FRAME AND COVER NOTES

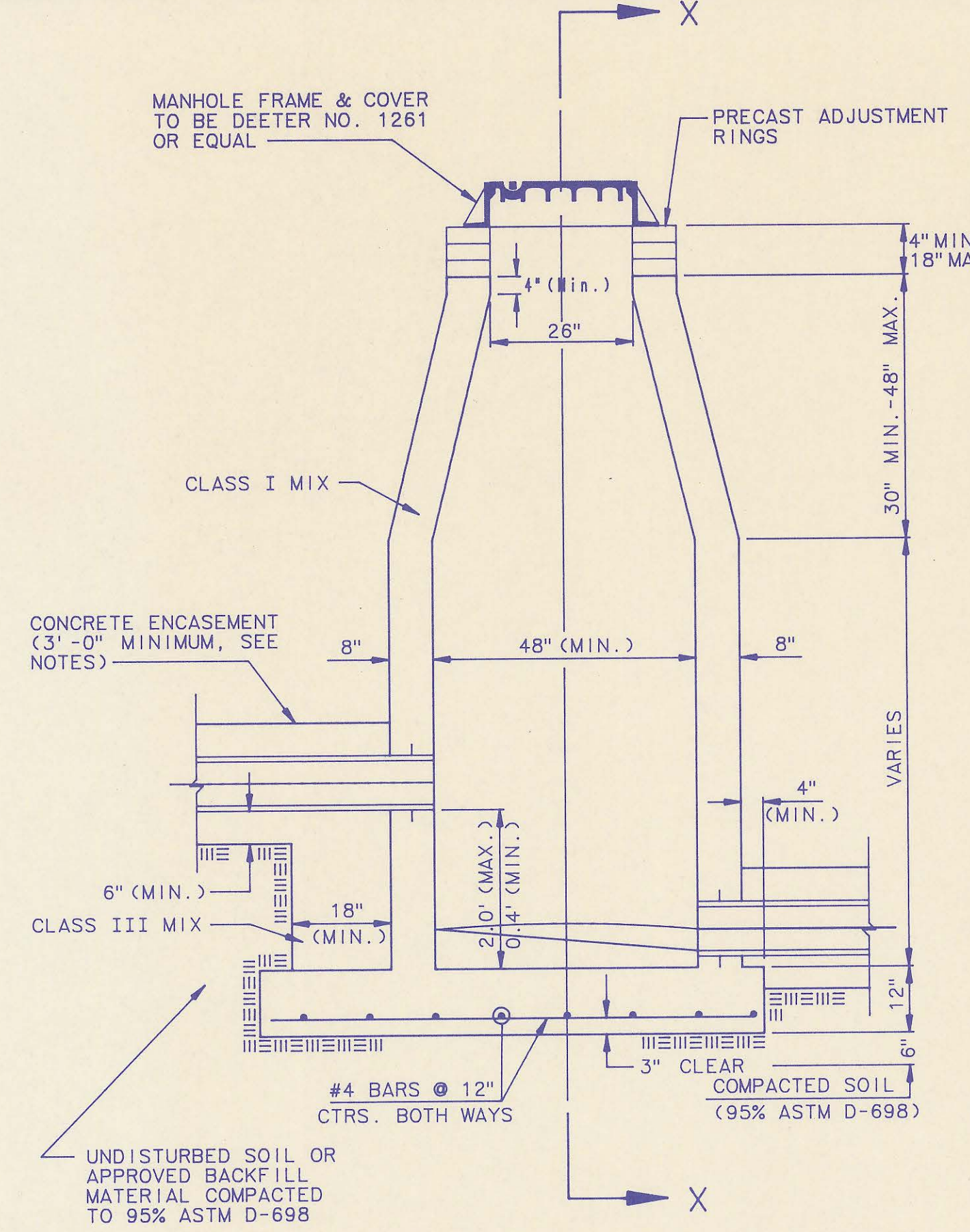
- CAST IRON MANHOLE FRAME AND COVER SHALL CONFORM TO ASTM A-48, CLASS 35B, OR BETTER.
- THE FRAMES AND COVERS SHALL BE OF A NONROCKING TYPE OR WITH MACHINED BEARING SURFACES SO FITTING PARTS WILL NOT RATTLE OR ROCK UNDER TRAFFIC.
- MANHOLE CASTINGS SHALL BE DEETER FOUNDRY INC. NO. 1261 OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED IN THE SPECIAL CONDITIONS. (MINIMUM WT. - 430 LBS.) ALL MANHOLE CASTINGS, REGARDLESS OF TYPE, SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS MANHOLE TYPES.
- GRIND ALL BURRS SMOOTH, CLEAN THOROUGHLY, THEN APPLY SHOP COAT OF ASPHALT BASE PAINT.
- THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. THE ENGINEER SHALL RETAIN THE RIGHT TO REJECT CASTINGS NOT CONFORMING TO THE SPECIFICATIONS OR THE APPROVED SHOP DRAWINGS.
- WHERE SELF-SEALING MANHOLE FRAMES ARE SPECIFIED ON THE PLANS, THE MANHOLE FRAME SHALL BE FURNISHED WITH AN APPROVED "O" RING GASKET GROOVED INTO THE BEARING SURFACE OF THE MANHOLE FRAME (PER DETAIL). THE "O" RING GASKET SHALL NOT BE INSTALLED IN THE MANHOLE FRAME UNTIL AFTER FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT BY THE ENGINEER. THE CONTRACTOR SHALL SUPPLY TO THE OWNER ONE (1) REPLACEMENT "O" RING GASKET FOR EACH SELF-SEALING MANHOLE SPECIFIED.



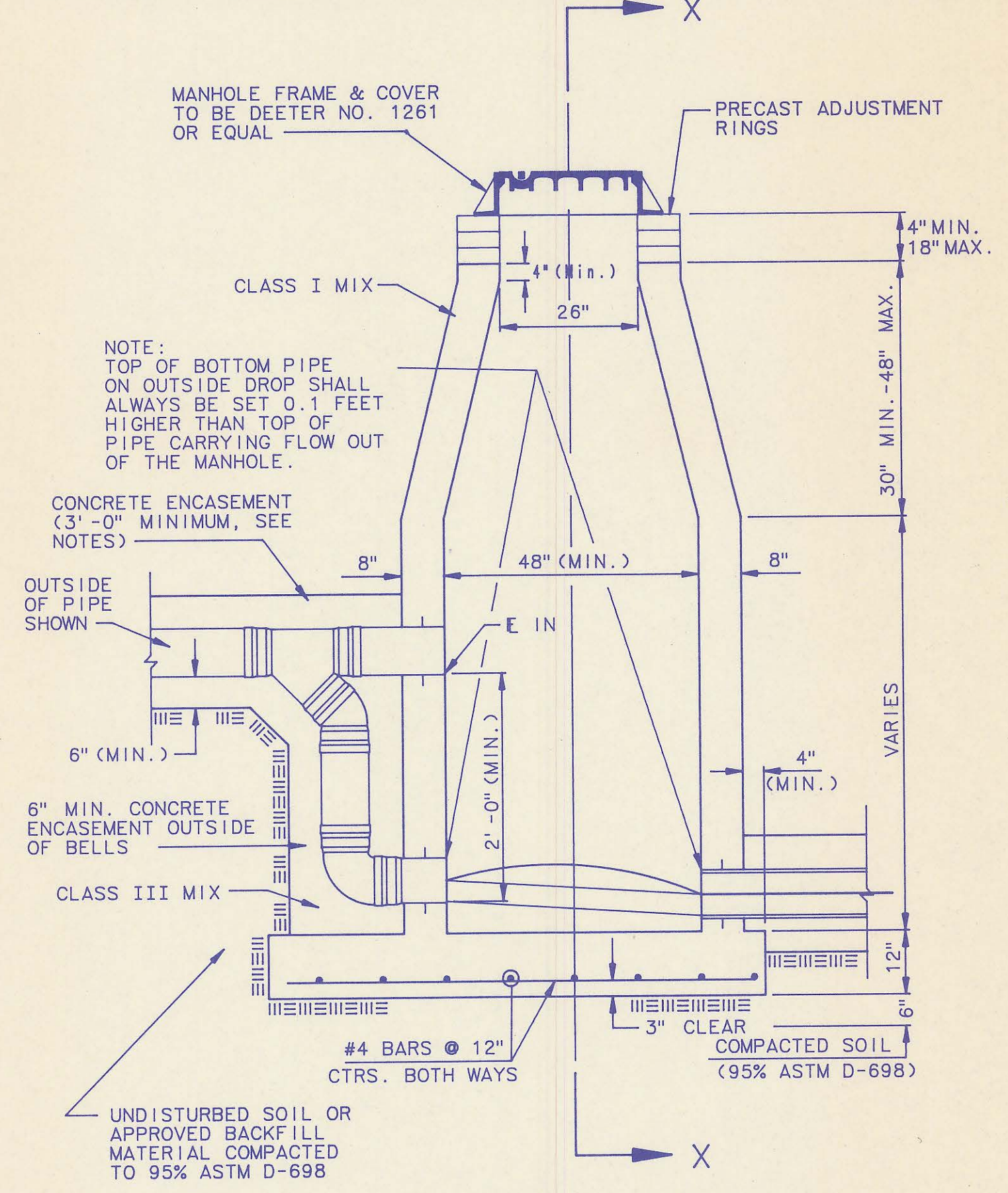
FRAME GROOVING DETAIL (FOR SELF-SEALING MHS ONLY)



CAST IN PLACE STANDARD MANHOLE TYPE "A"



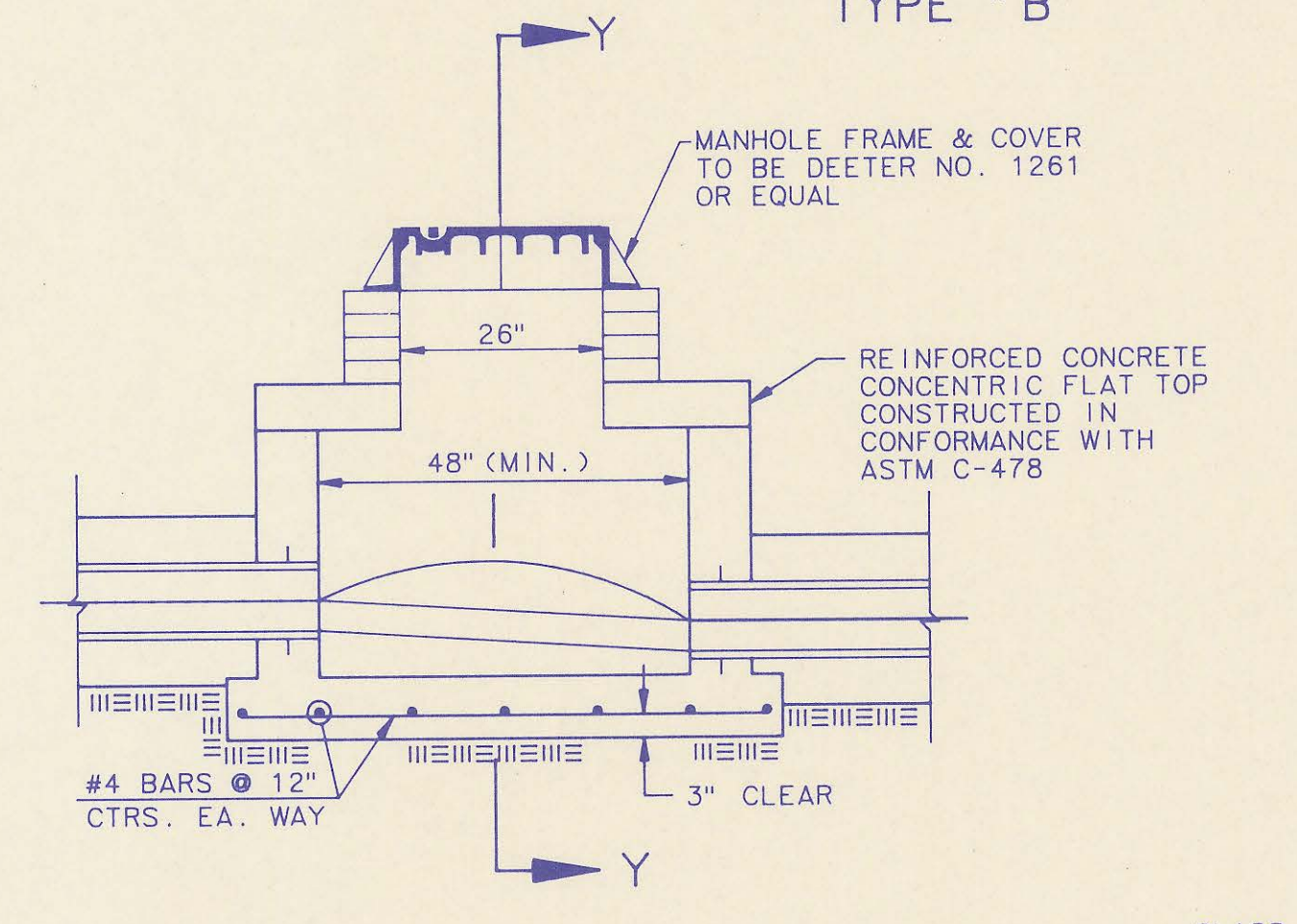
CAST IN PLACE DROP MANHOLE TYPE "B"



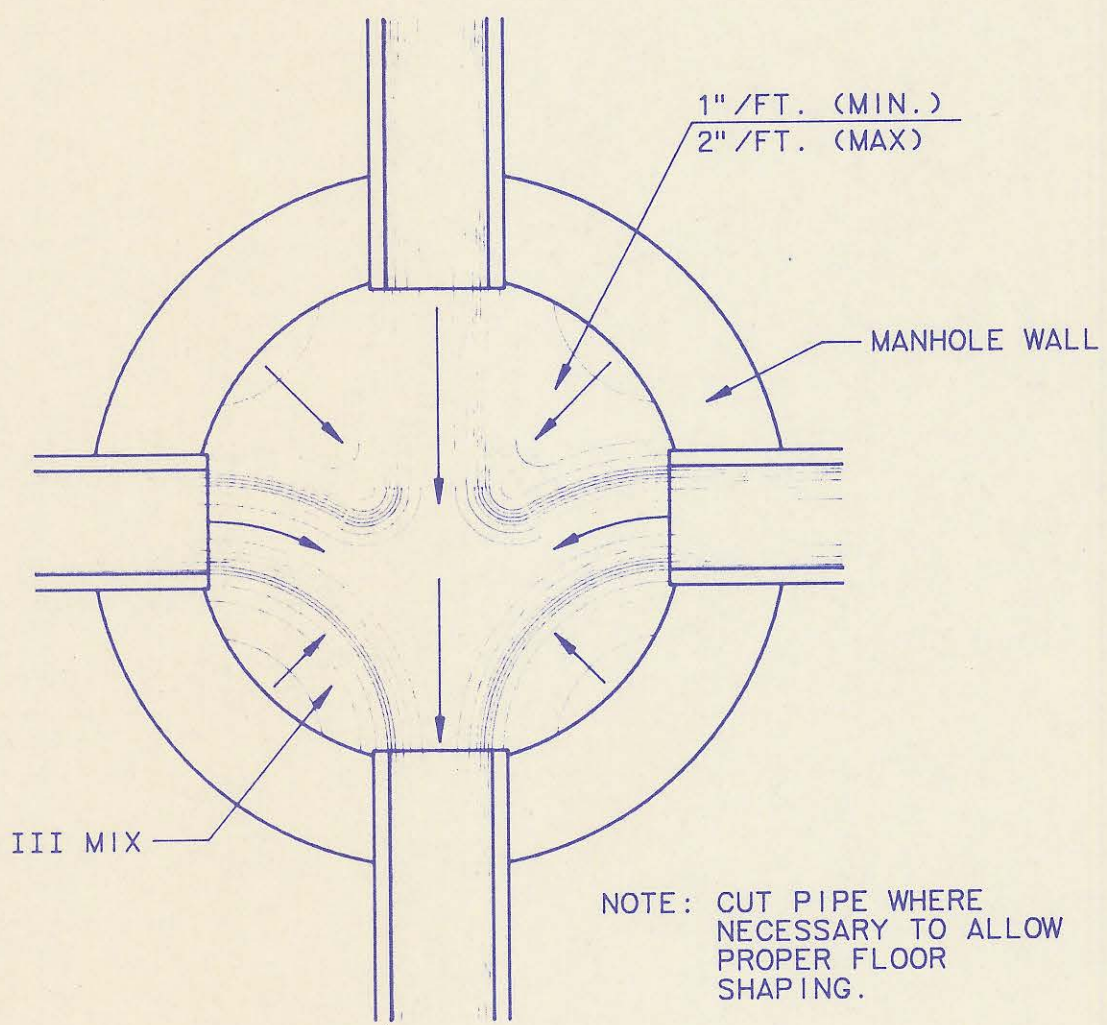
CAST IN PLACE OUTSIDE DROP MANHOLE TYPE "C"

CAST-IN-PLACE MANHOLE NOTES

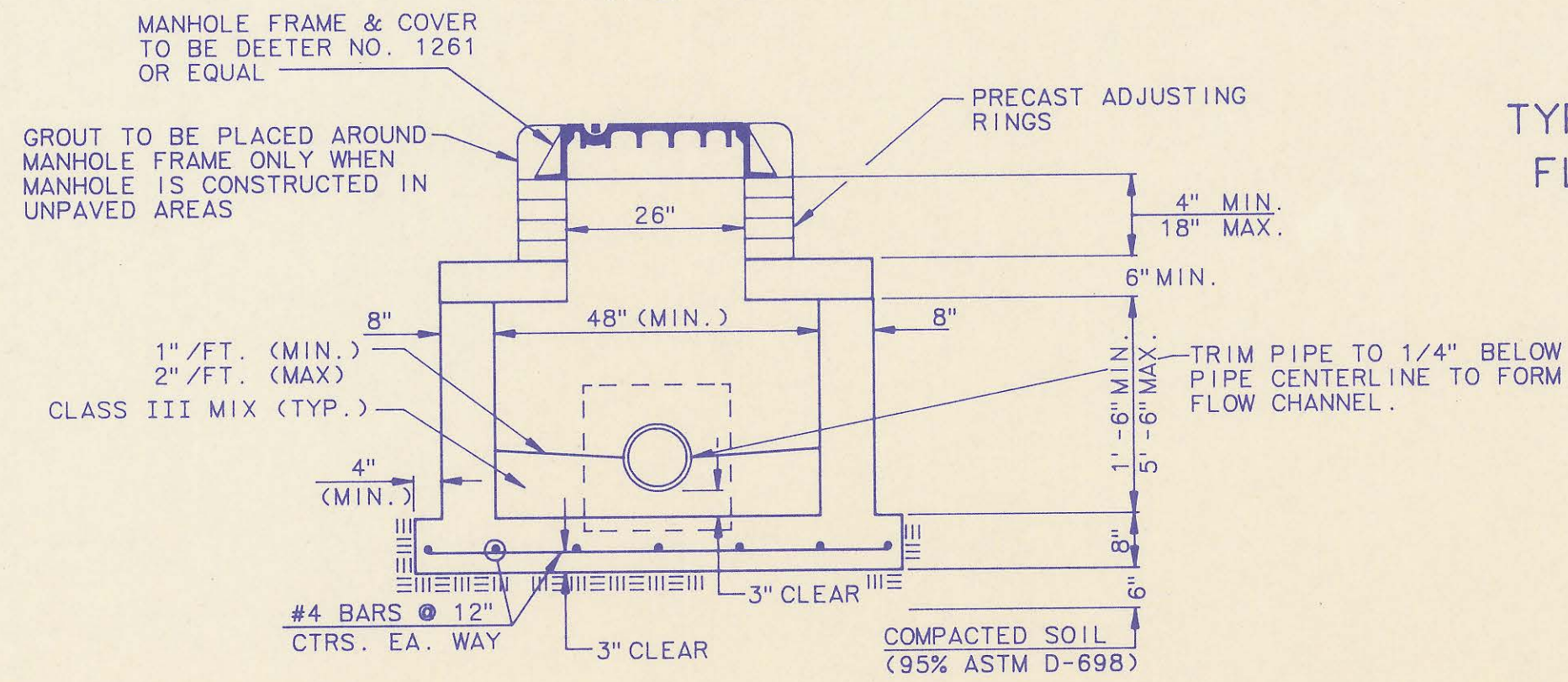
- IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
- STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
- WHEN OPENINGS ARE CUT IN MANHOLE WALLS FOR PIPE, THE PIPE OR PIPE CONNECTOR SHALL BE GROUTED IN PLACE WITH NON-SHRINKING GROUT. EXTERIOR OF COMPLETED CONNECTION SHALL BE SEALED WITH APPROVED COATINGS.
- CAST-IN-PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY IN LOCATIONS WHERE IT IS OBVIOUS THAT ANY ADJUSTMENT OF THE MANHOLE TOP ELEVATIONS WHICH MAY BE NECESSARY WILL NOT REQUIRE MODIFICATION OF THE CONCRETE BARREL.
- APPROVED FLEXIBLE WATERSTOP GASKETS WHICH MEET OR EXCEED THE TEST REQUIREMENTS OF ASTM C-923 SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN ABS COMPOSITE PIPE OR PVC PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL.
- THE MANHOLE FRAME SHALL BE SEATED ON AN APPROVED BUTYL-RUBBER SEALANT TO PROVIDE A WATER-TIGHT SEAL BETWEEN THE MANHOLE ADJUSTMENT RING OR BRICK MASONRY COLLAR AND THE MANHOLE FRAME.
- GASKETED PIPE CAPS SHALL BE PROVIDED BY THE PIPE SUPPLIER.
- CONCRETE FOR MANHOLE BASES SHALL BE CLASS I AS DESCRIBED IN THE SPECIFICATIONS.
- MANHOLES WITH PIPE SIZES LARGER THAN 15" SHALL HAVE 5" INSIDE DIAMETER.



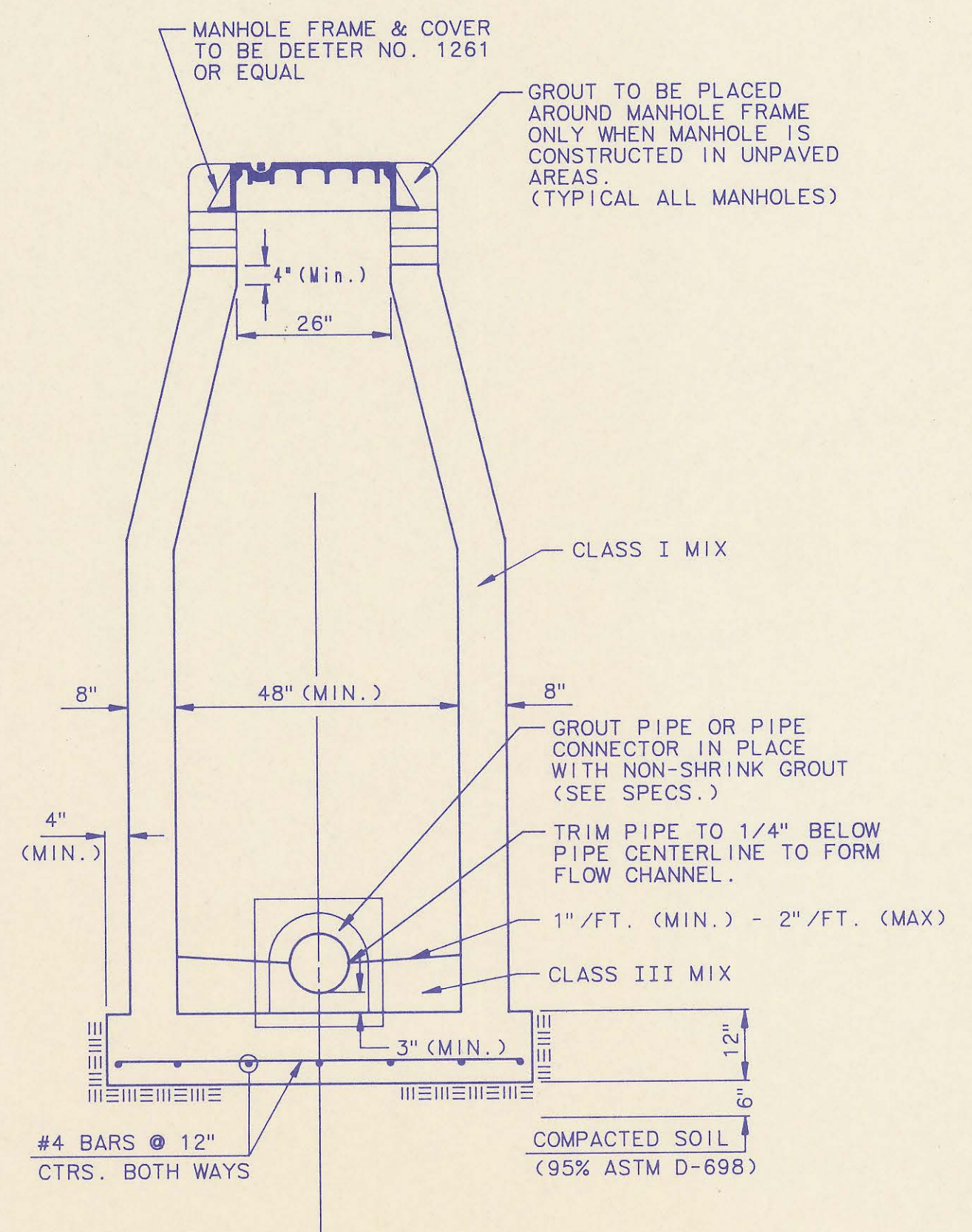
SHALLOW MANHOLE TYPE "D"



TYPICAL MANHOLE FLOOR SHAPING



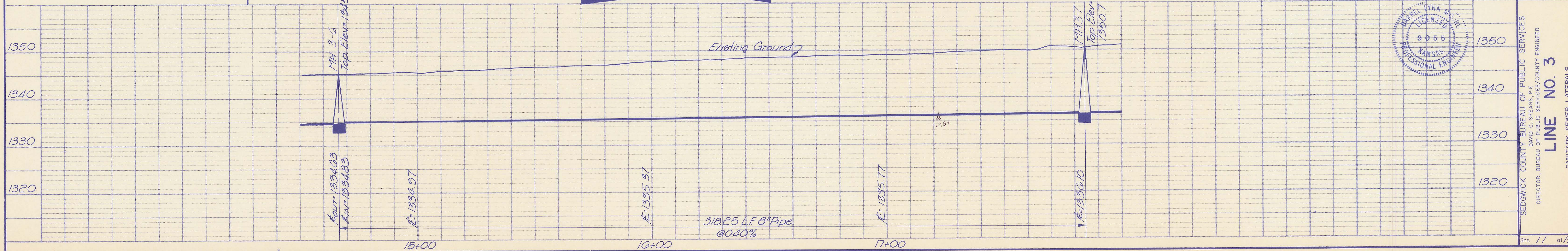
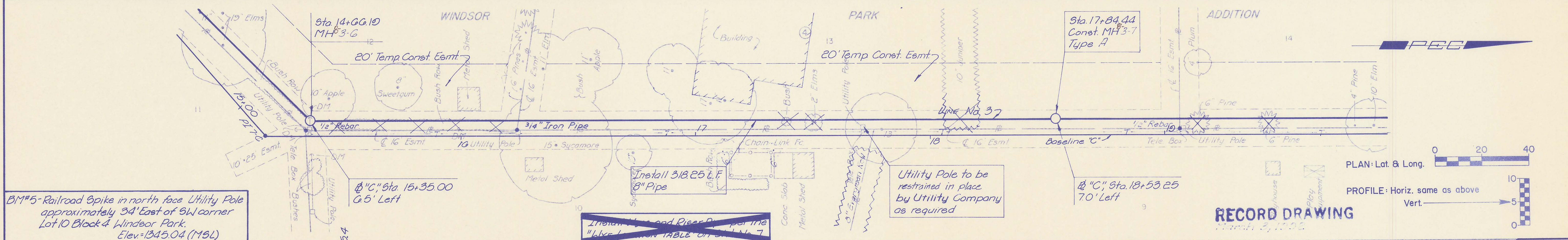
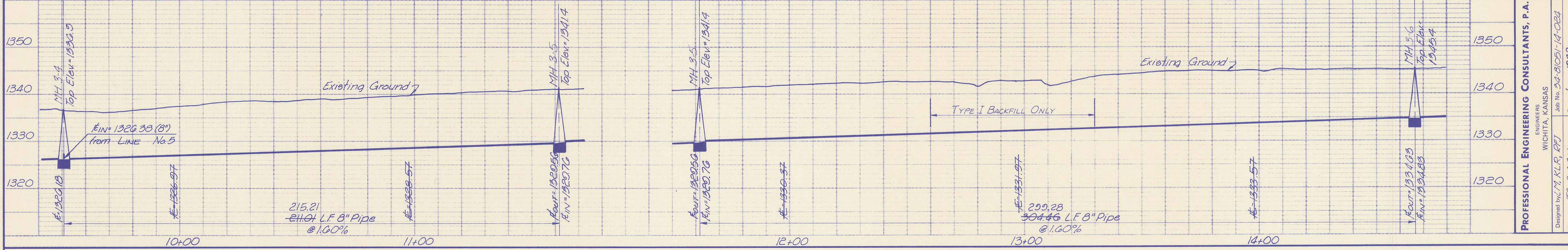
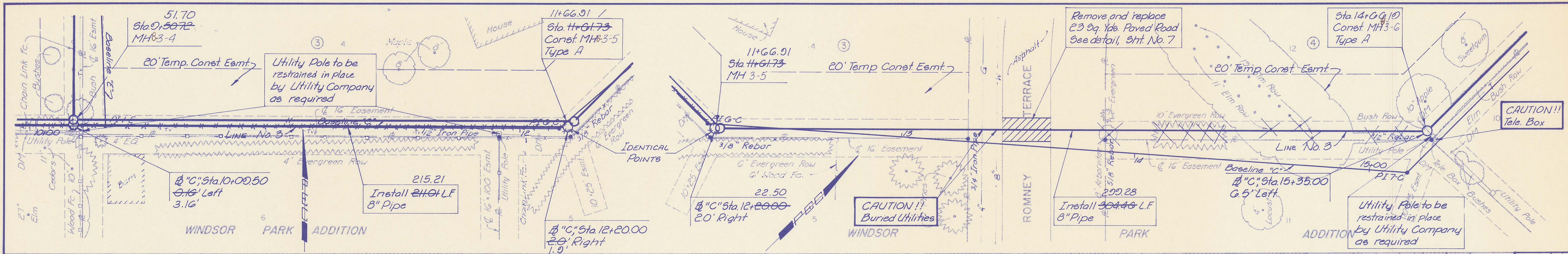
SECTION Y



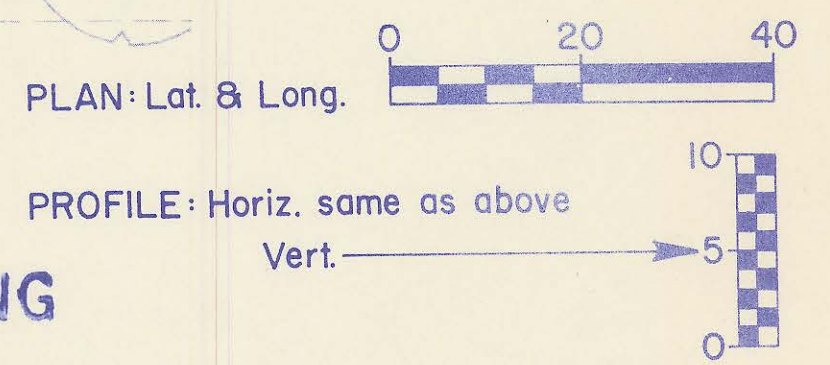
SECTION X (TYPICAL)

DRAWING NAME: PEC Cast-in-Pl. MH Sids
LOCATION: LOCAL D4 DWG-4488
CENTER COORDINATES:
ROTATION ANGLE: 0 ON JUL 16, 1991
SCALE: LAST DIMENSIONS:
SPECIAL INSTRUCTIONS:

1	Manhole Frame and Cover Note 1	RJ	7/16/91
No.	Revision	By	Date
CAST-IN-PLACE MANHOLE DETAILS ADOPTED AS STANDARD DESIGN BY SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
Designed by DLW	Job No.	Sht. 6 of 7	
Drawn by DMW, TDS	Date NOVEMBER, 1990		



PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS
 Designed by: L.M. KLR, PEJ
 Job No. 34-81051-14-024
 Date: Jan., 1982
 Drawn by: T.C. GM, SM



RECORD DRAWING
 March 2, 1982



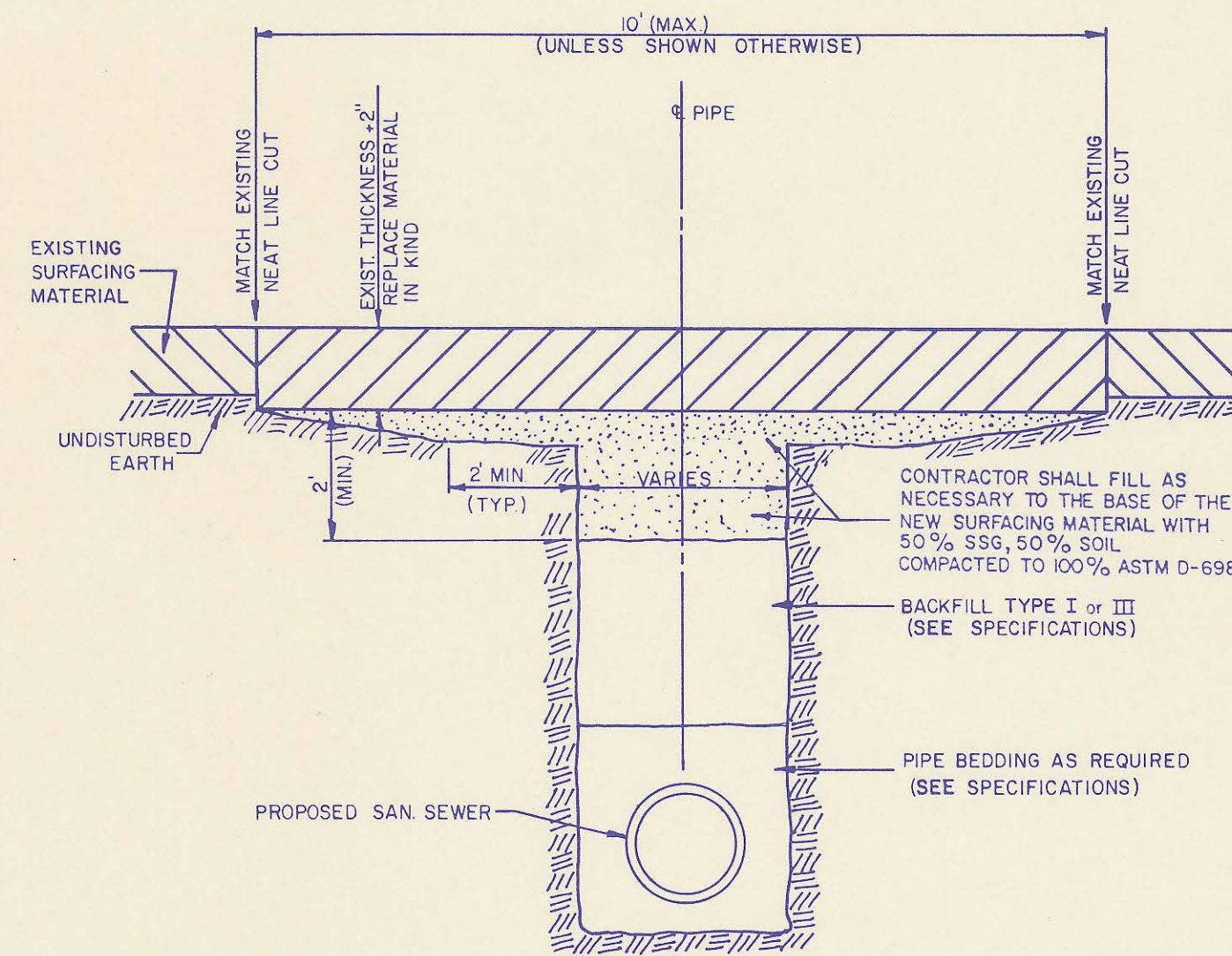
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
 DIRECTOR: DAVID C. SPEARS, P.E.
LINE NO. 3
 SANITARY SEWER LATERALS
 WINDSOR PARK, LATEAL SEWER DISTRICT
 Sht. 11 of 15

WYE LOCATION TABLE

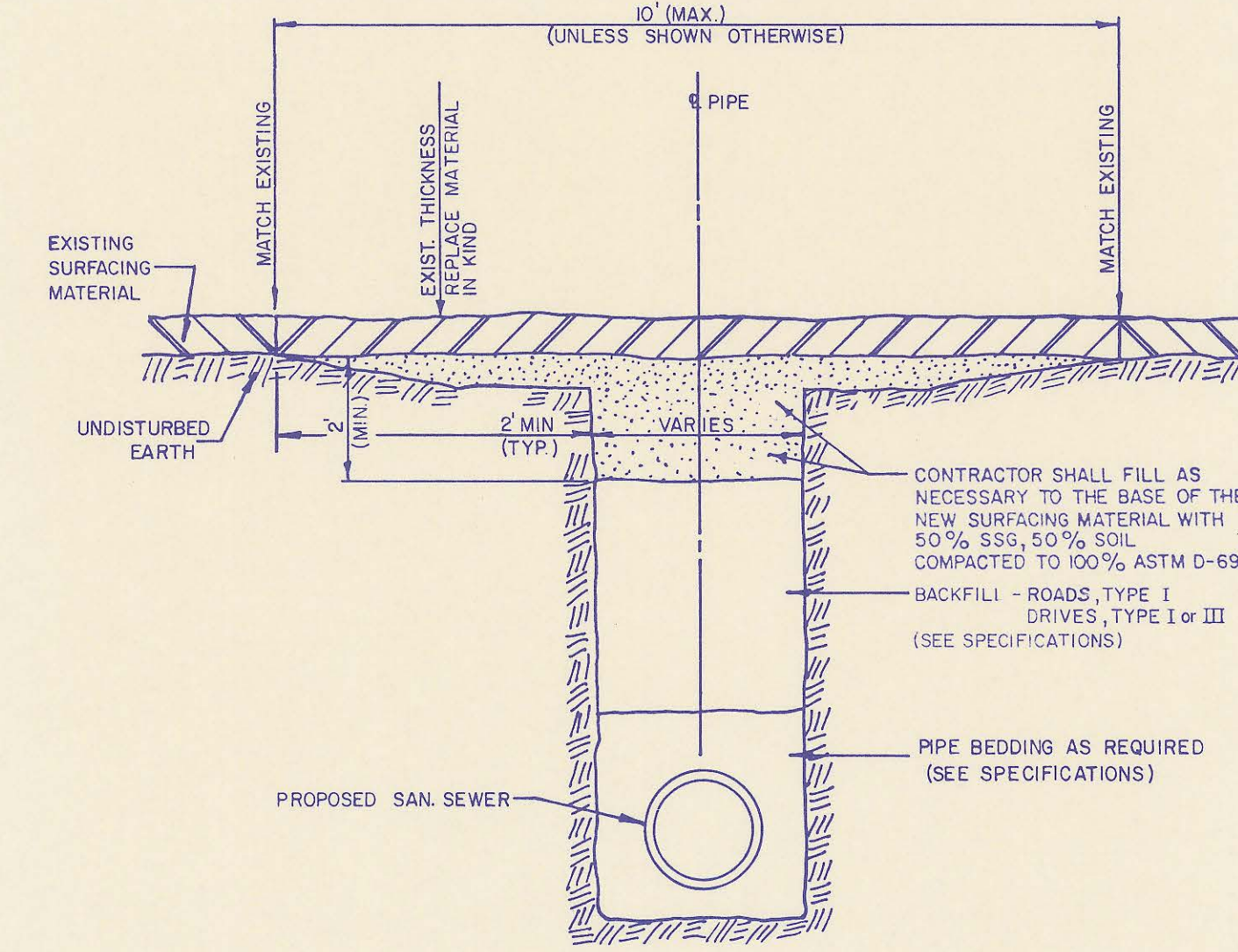
NOTE: THE ENGINEER WILL MEASURE THE LOCATIONS OF INSTALLED WYES AND RECORD THE LOCATIONS ON THE TABLE BELOW. DESIGN WYE LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED AS NECESSARY TO BEST SERVE EXISTING BUILDINGS AND LOTS AS DIRECTED BY THE ENGINEER.

WYE NO.	DESIGN LOCATION					RISER PIPE (L.F.)	DISTANCE FROM MANHOLE	
	LINE NO.	STATION	BLOCK NO.	LOT NO.	DIRECTION		UPSTREAM	DOWNSTREAM
1	1	0+55	1*	4	RIGHT	7.0		
2	1	1+50	1*	3	RIGHT	6.0		
3	1	3+30	1*	2	RIGHT	5.0		
4	1	5+00	1*	1	RIGHT	4.0		
5	1	7+10	1	4	RIGHT	3.0		
6	1	9+35	1	5	LEFT	0.0	DELETED	
7	1	10+95	1	2	RIGHT	8.0	DELETED	
8	3	0+96	6	5	RIGHT	20.0	DELETED	
9	3	1+74	2	5	RIGHT	15.0		
10	3	3+80	3	7	RIGHT	9.0		
11	3	9+78	3	6	RIGHT	8.0		
12	3	11+00	3	4	LEFT	2.0		
13	3	11+40	3	5	RIGHT	1.0		
14	3	13+84	4	11	RIGHT	11.0		
15	3	14+81	4	12	LEFT	2.0	DELETED	
16	3	15+92	4	13	LEFT	3.0		
17	3	16+08	4	8	RIGHT	12.0		
18	3	18+12	4	9	LEFT	14.0		
19	3	18+55	4	14	LEFT	6.0		
20	3	20+52	4	8	RIGHT	16.0		
21	4	0+39	2	5	LEFT	7.0		
22	4	0+55	2	2	RIGHT	16.0		
23	4	2+46	2	3	RIGHT	15.0		
24	4	2+92	2	7	LEFT	7.0		
25	4	4+20	2	8	LEFT	1.0		
26	4	4+78	2	2	RIGHT	1.0		
27	4	6+08	2	9	LEFT	13.0		
28	4	6+15	2	1	RIGHT	5.0		
29	5	2+24	3	8	LEFT	0.0	DELETED	
30	5	2+25	3	9	LEFT	0.0	DELETED	
31	5	2+92	3	3	RIGHT	8.0	DELETED	
32	5	4+33	3	10	LEFT	4.0		
33	5	4+87	3	2	RIGHT	13.0		
34	5	6+15	3	11	LEFT	6.0		
35	5	6+48	3	1	RIGHT	14.0		
36	6	0+24	6	2	LEFT	13.0		
37	6	1+27	6	1	LEFT	14.0		
38	6	10+05	7	8	LEFT	5.0		
39	6	11+03	7	9	LEFT	6.0		

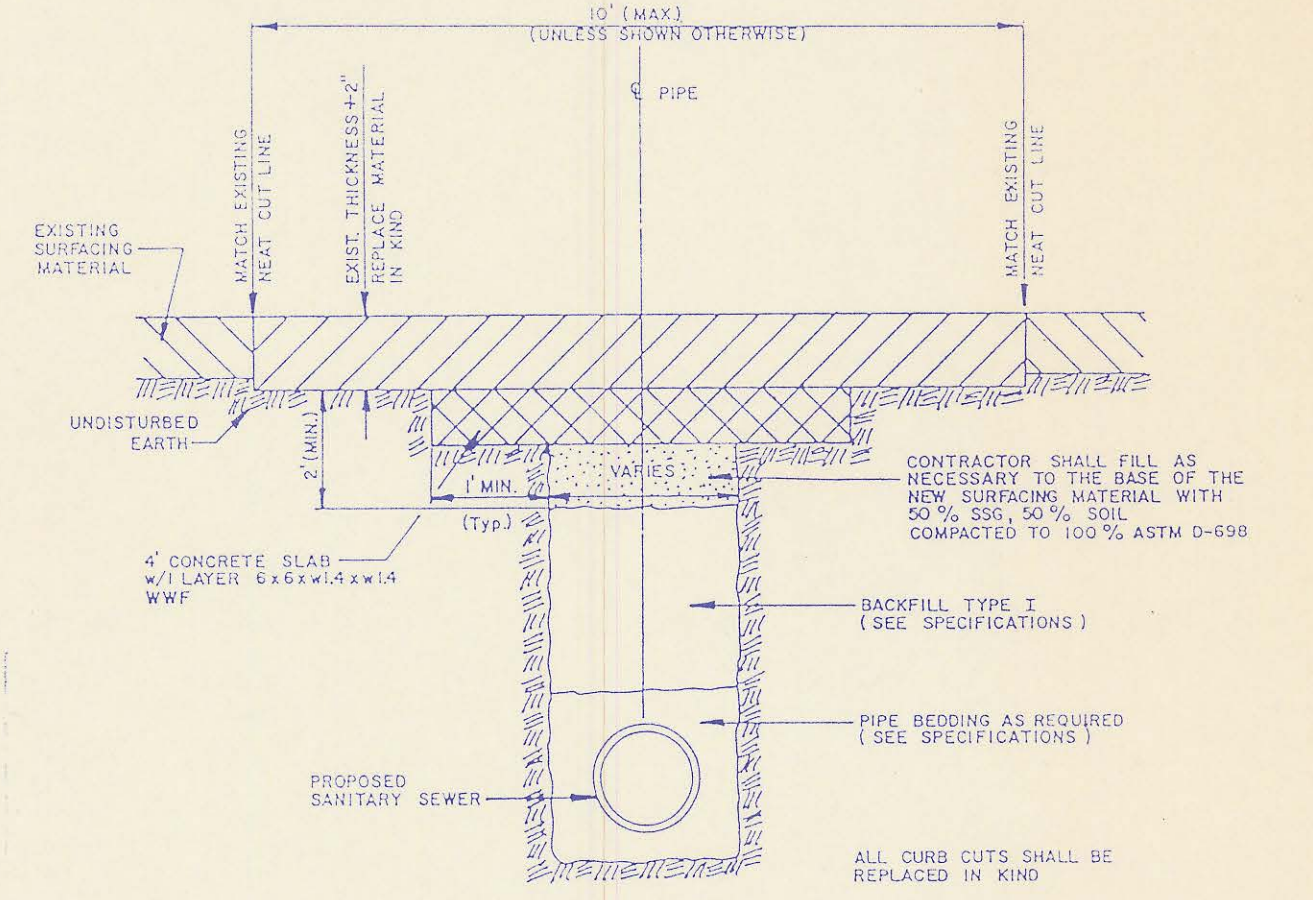
* DENOTES LOT IN BALL ADDITION. ALL OTHER LOTS ARE IN WINDSOR PARK ADDITION.



PAVED DRIVE CROSSING - REMOVAL AND REPLACEMENT



UNPAVED ROAD OR DRIVE - REMOVAL AND REPLACEMENT



PAVED ROAD CROSSING - REMOVAL AND REPLACEMENT

GRASS PLANTING

THE CONTRACTOR SHALL PLANT GRASS ON ALL AREAS DISTURBED BY CONSTRUCTION WHICH ARE NEITHER PART OF PAVED OR UNPAVED ROADS OR DRIVES NOR AREAS OCCUPIED BY SIDEWALKS, STRUCTURES, GARDENS, OR CULTIVATED CROPS. SURFACES SHALL BE PREPARED, FERTILIZED, AND PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS AND AT THE APPLICATION RATES GIVEN BELOW. THE COST FOR SEEDING, SPRIGGING, AND SODDING SHALL BE SUBSIDIARY TO THE PRICE BID FOR "SITE CLEARING AND RESTORATION".

ROAD RIGHTS-OF-WAY AND OTHER PUBLICLY OWNED AREAS SHALL BE SEED AS DIRECTED BELOW UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

APPLICATION RATES:

1. SEED: K-31 FESCUE @ 8 LBS PER 1,000 SQUARE FEET
2. MULCH (IF REQUIRED): 90 LBS PER 1,000 S.F.
3. FERTILIZER: NITROGEN @ 4 LBS PER 1,000 S.F.
PHOSPHOROUS @ 8 LBS PER 1,000 S.F.
POTASSIUM @ 4 LBS PER 1,000 S.F.

GRASS ON PRIVATELY-OWNED AREAS (INCLUDING TEMPORARY AND PERMANENT EASEMENTS) SHALL BE REPLACED IN KIND IN ACCORDANCE WITH THE INFORMATION GIVEN BELOW OR AS DIRECTED BY THE ENGINEER.

TYPE OF GRASS	PLANTING TIME	SEED APPLICATION	FERTILIZER*
BLUEGRASS (WINDSOR, KENTUCKY, ETC.)	FALL	3 LBS/1,000 S.F.	8 LBS/1,000 S.F.*
TALL FESCUE (K-31)	SPRING OR FALL	8 LBS/1,000 S.F.	8 LBS/1,000 S.F.*
BERMUDA	SPRING	SPRIGS OR SOD (SEE SPECIFICATIONS)	8 LBS/1,000 S.F.*
ZOYSIA	SPRING	SPRIGS OR SOD (SEE SPECIFICATIONS)	8 LBS/1,000 S.F.*

*FERTILIZER APPLICATION RATES ARE BASED ON ACTUAL LBS OF PHOSPHOROUS APPLIED. FERTILIZER SHALL BE 12-24-12 OR OTHER HIGH PHOSPHOROUS TYPE AS APPROVED BY THE ENGINEER. (EXAMPLE: TO APPLY 8 LBS OF PHOSPHOROUS USING A 12-24-12 FERTILIZER, 33 LBS OF FERTILIZER WOULD BE REQUIRED.)

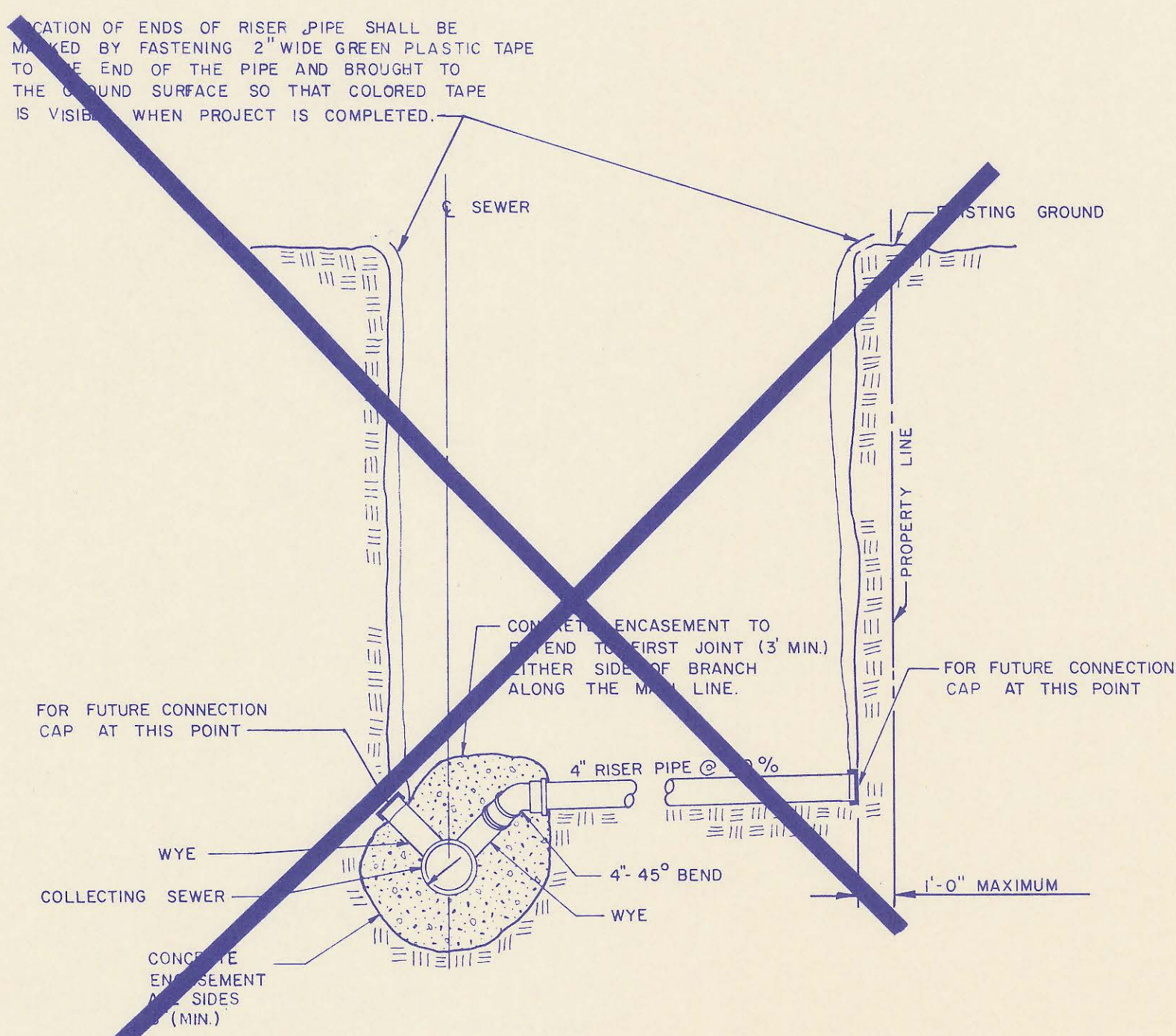
NOTE: ALL STUBS/RISERS SHALL TERMINATE WITH PLAIN END PIPE CAPPED BY A GASKETED CAP MADE FOR THE PIPE BEING INSTALLED. CAPS MAY BE TAPED ON BUT SHALL NOT BE GLUED OR CEMENTED TO THE PIPE.

RECORD DRAWING

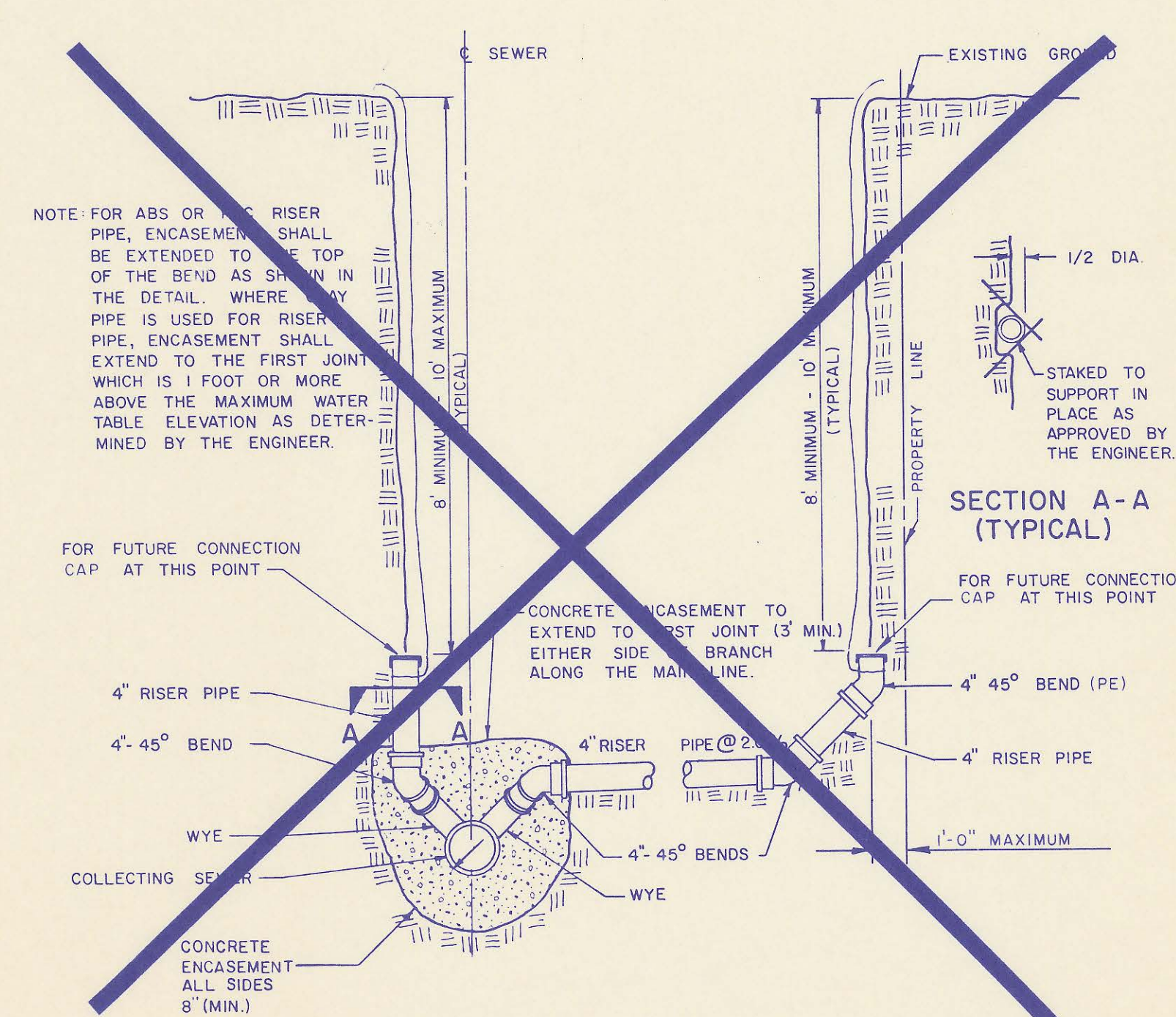
March 3, 1988



Updated per Current Standards		RJ 3/1988	
No.	Revision	By	Date
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER			
MISCELLANEOUS DETAILS			
SANITARY SEWER LATERALS WINDSOR PARK LATERAL SEWER DISTRICT			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.			
ENGINEERS WICHITA, KANSAS			
Designed by	KLR, LM, RFJ	Job No.	81051-14
Drawn by	GM, RFJ	Date	
			Sht. 7 of 15

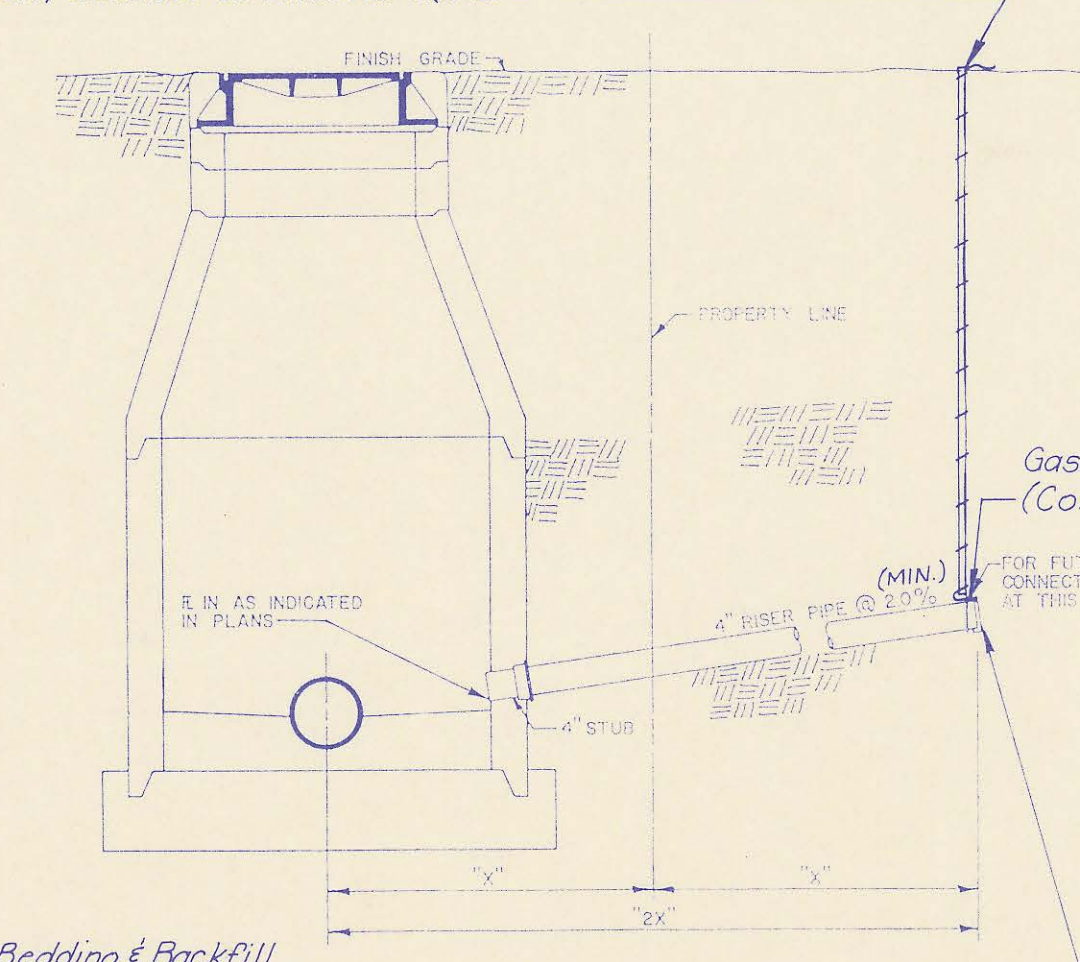


WYE AND RISER DETAIL



WYE AND RISER DETAIL

LOCATION OF ENDS OF STUBS/RISERS SHALL BE MARKED BY FASTENING 2-INCH WIDE METALLIC DETECTABLE TAPE TO THE END OF THE PIPE THEN WRAPPED OR OTHERWISE FASTENED AT 3-FOOT INTERVALS TO 1-INCH O.D. PVC PLASTIC PIPE EXTENDING FROM THE PIPE TO THE GROUND SURFACE SO THAT THE TAPE IS VISIBLE WHEN THE PROJECT IS COMPLETED. METALLIC DETECTABLE TAPE SHALL BE "MagnaTape" AS MANUFACTURED BY THOR ENTERPRISES, INC., WATERLOO, WISCONSIN OR "LINEGUARD TYPE III" AS MANUFACTURED BY LINEGUARD, INC., CHICAGO, ILLINOIS OR APPROVED EQUAL.



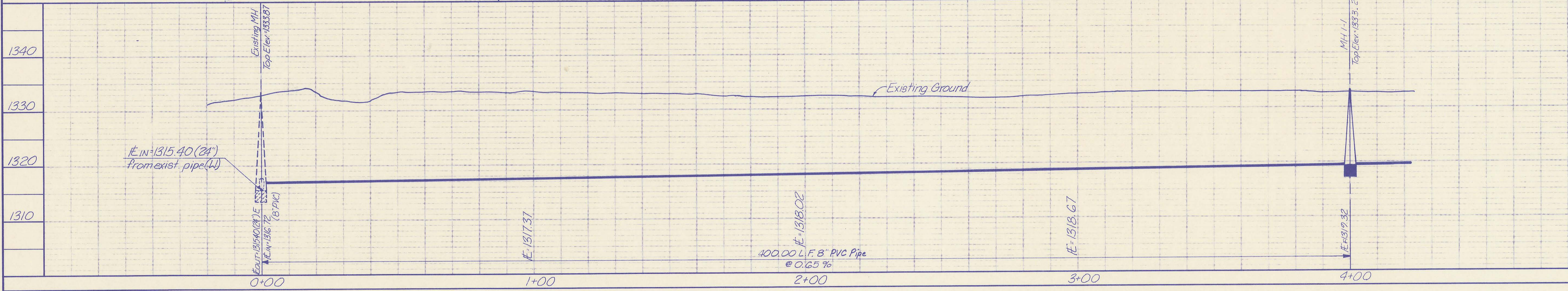
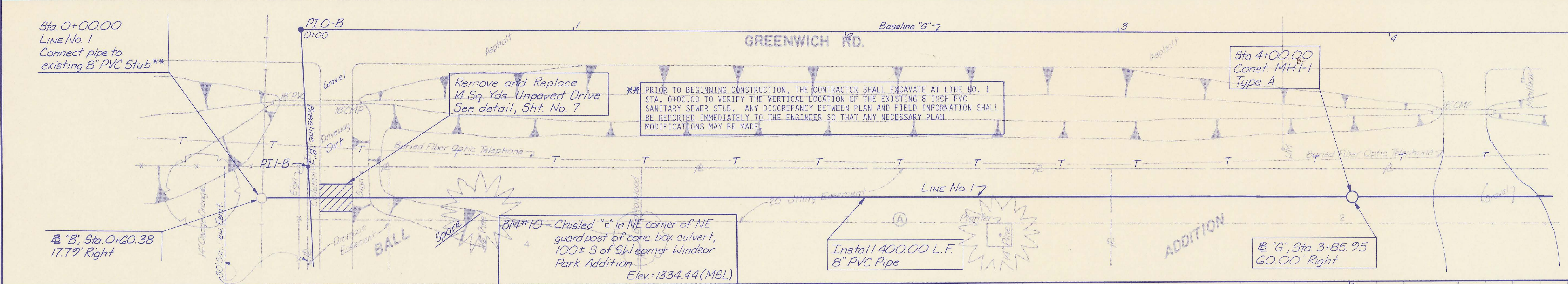
SERVICE STUB DETAIL

NOTE: Bedding & Backfill for riser pipe shall be as reqd. for other pipe.

SEE PLAN/PROFILE SHEETS FOR FLOWLINE ELEVATION

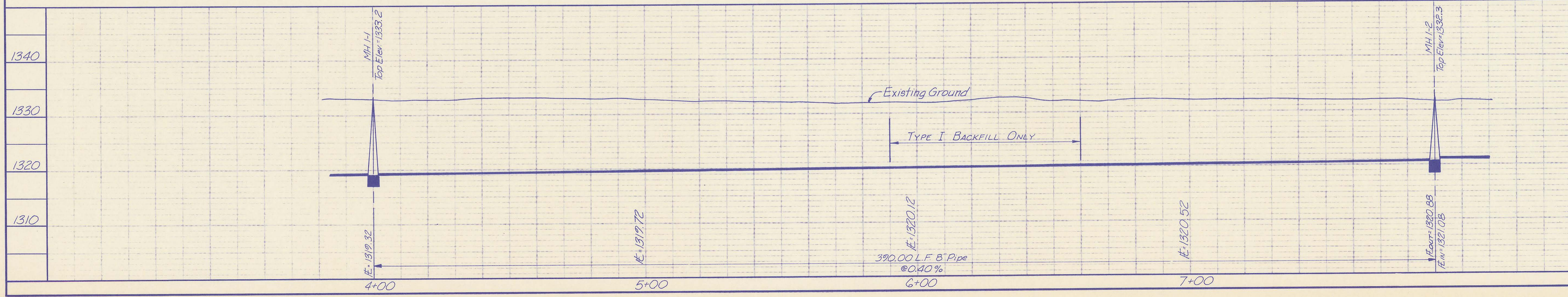
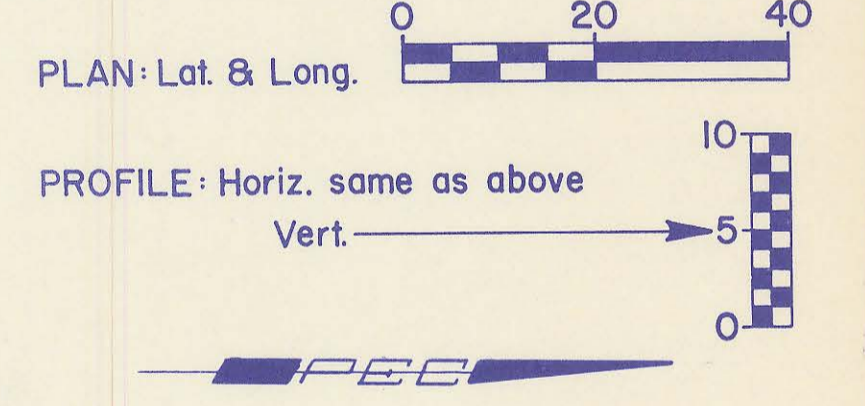
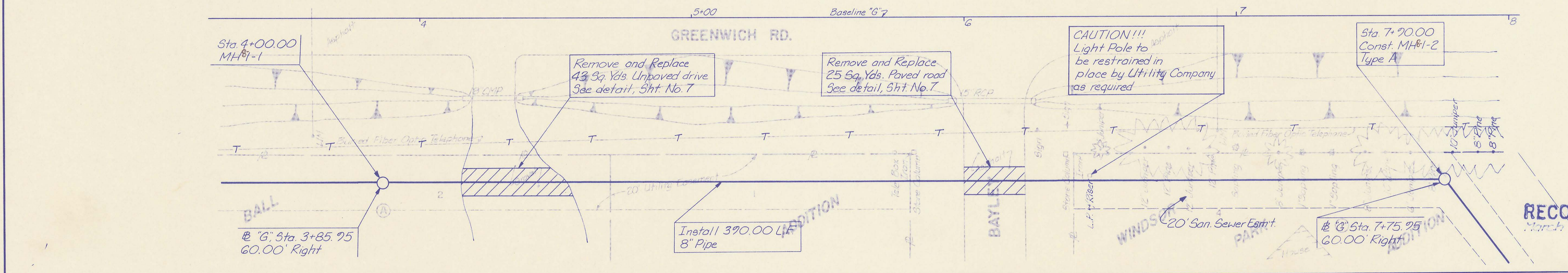
PLAN
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 PLOTTED BY: [blank]
 AUTHORITY ENGINEER: [blank]
 DATE: [blank]

PROFILE
 DATE: [blank]
 BY: [blank]



Install 10' San. Sewer Estmt. on Sht. 1302

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS
 Job No. 34-81051/4
 Date April, 1989
 Drawn by SAM

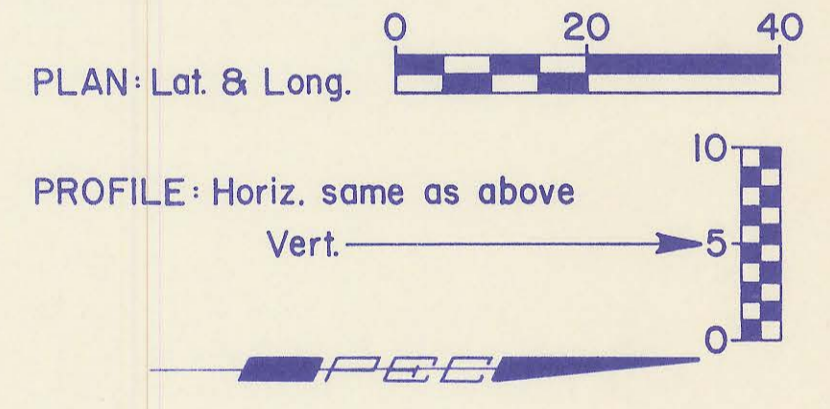
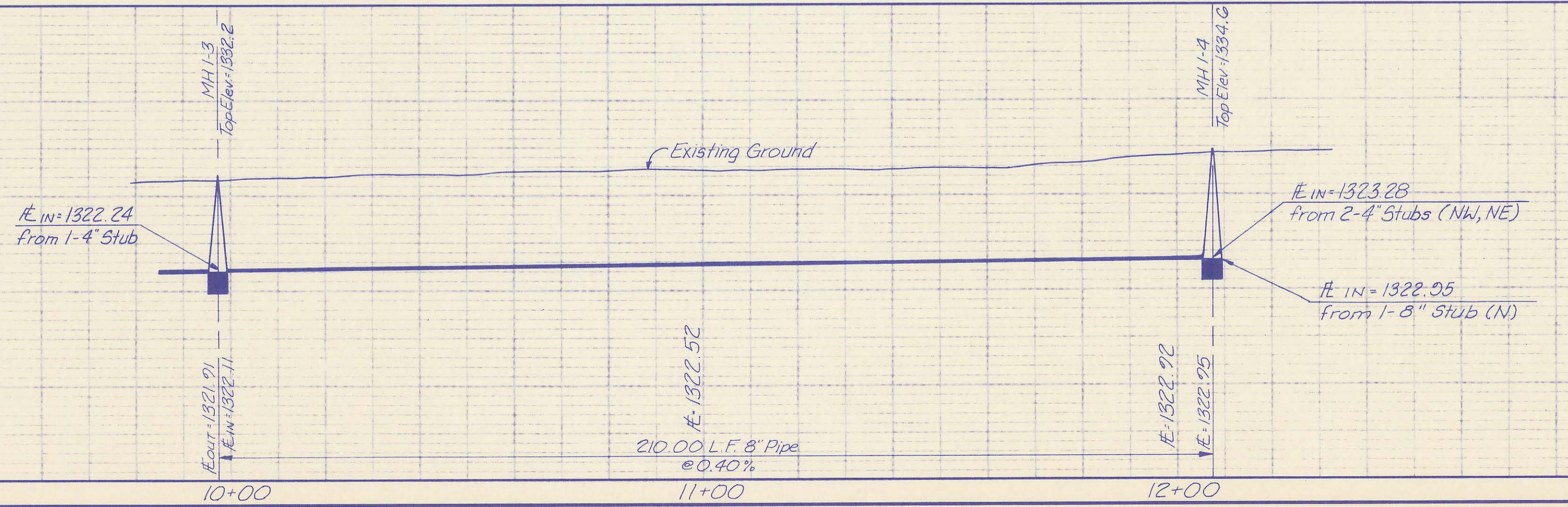
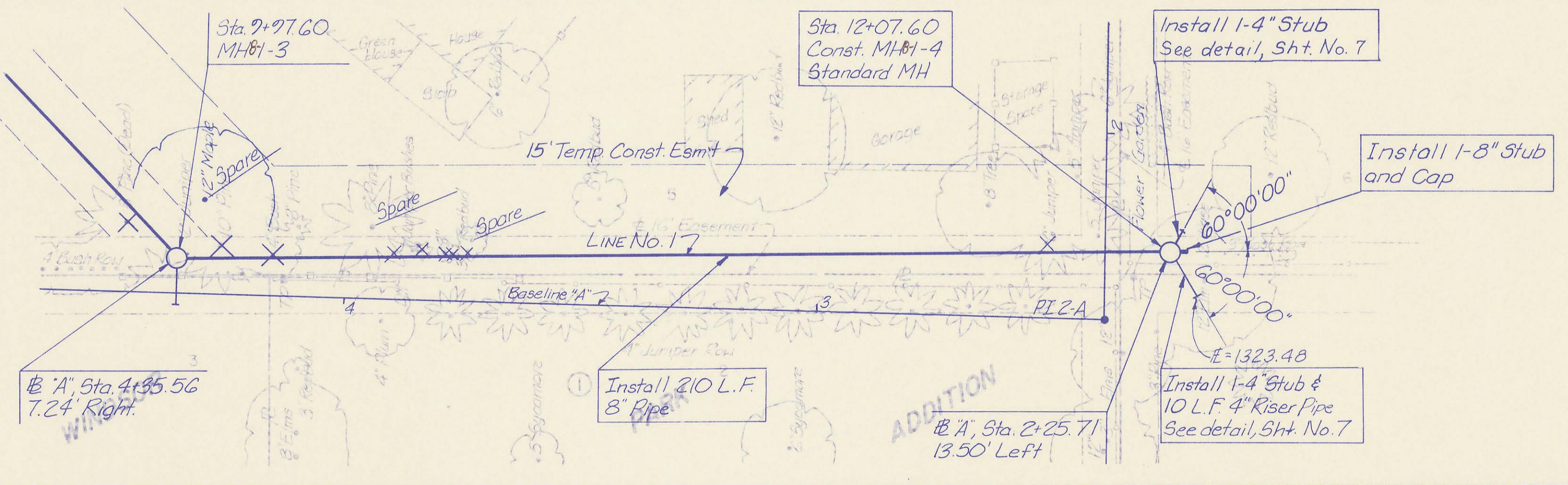
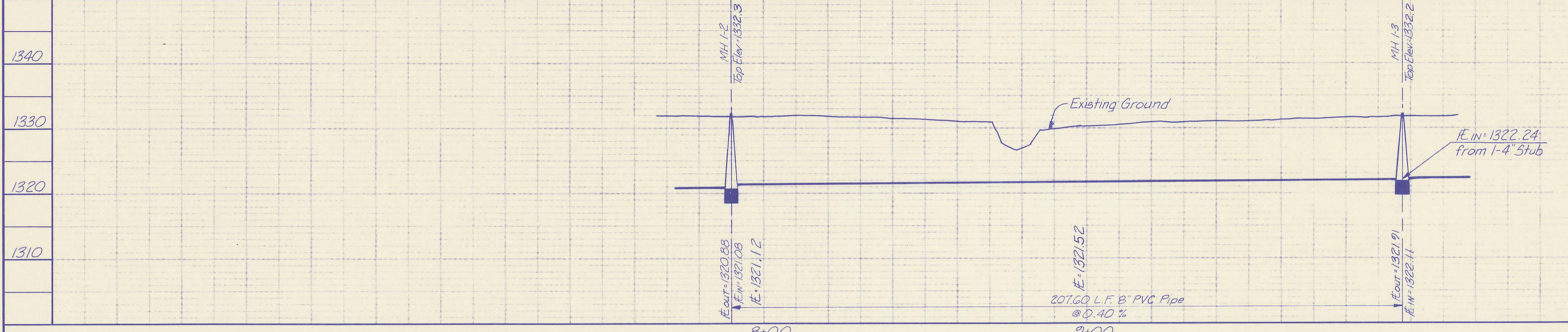
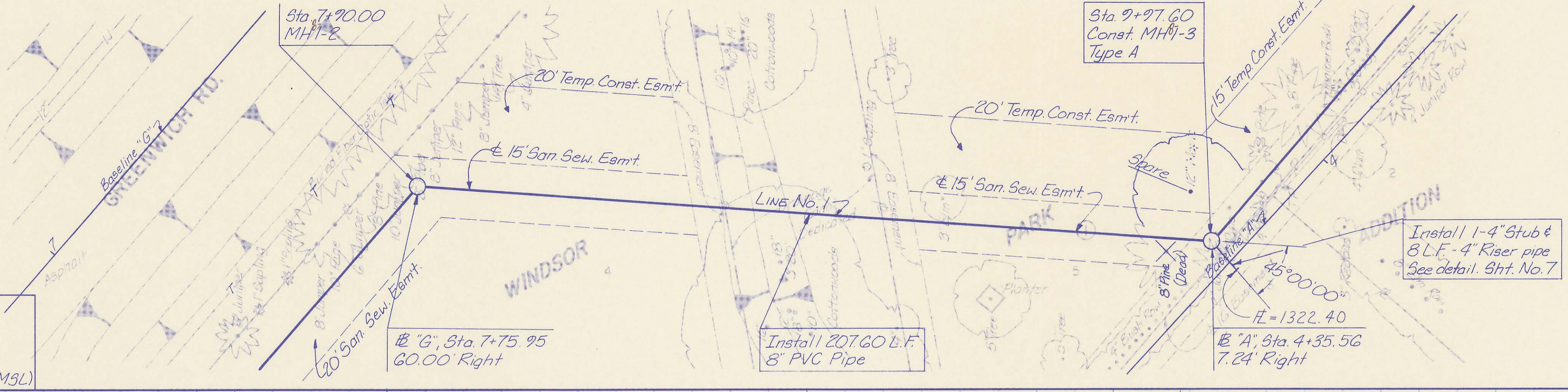


LINE NO. 1
 (WINDSOR PARK ADDITION)
 SANITARY SEWER LATERALS
 WINDSOR PARK LATERAL SEWER DISTRICT
 SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
 DIRECTOR: DAVID C. SPEARS, P.E.
 ENGINEER: [blank]
 Sht. 8 of 15

DATE: _____
 BY: _____
 PLAN: _____
 SHEET NO. _____ OF _____

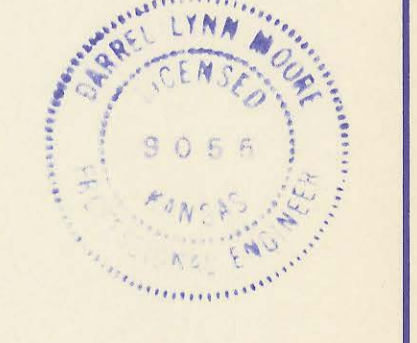
DATE: _____
 BY: _____
 PROFILE: _____
 SHEET NO. _____ OF _____

BM #1 - Christed "6" in NE corner of NE guard post of double conc. box culvert, 375± 3 of W 1/4 corner Sec. 27, T27S, R2E
 Elev: 1336.245 (MSL)

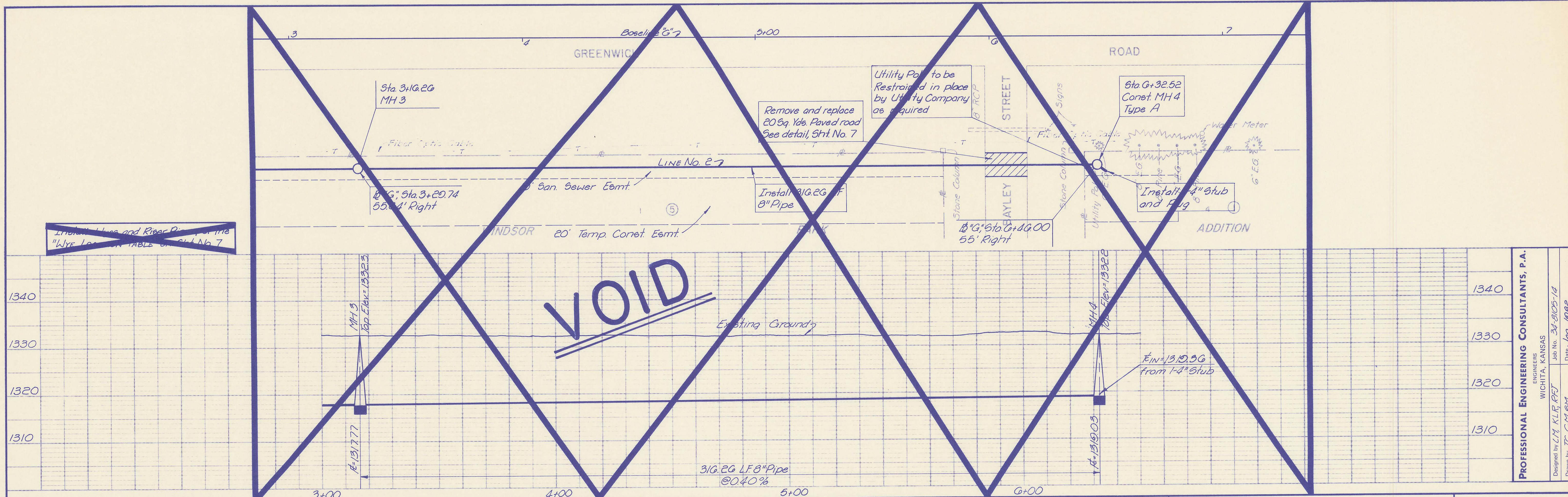


RECORD DRAWING
 March 3, 1987

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS
 Job No. 34-81051-14
 Drawn by SAM
 Date April, 1987



SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
 DIRECTOR, BUREAU OF PUBLIC SERVICES / COUNTY ENGINEER
LINE NO. 1
 (WINDSOR PARK ADDITION)
 SANITARY SEWER LATERALS
 WINDSOR PARK LATERAL SEWER DISTRICT
 Sht. 8A of 15



Install Lines and Rear Pipe per the "Line Location Table" of Sht. No. 7

Utility Poles to be Restrained in place by Utility Company as required

Remove and replace 205g. Yds. Paved road See detail, Sht. No. 7

Sta. 0+32.52 Const. MH 4 Type A

Install 316.20 L.F. 8" Pipe

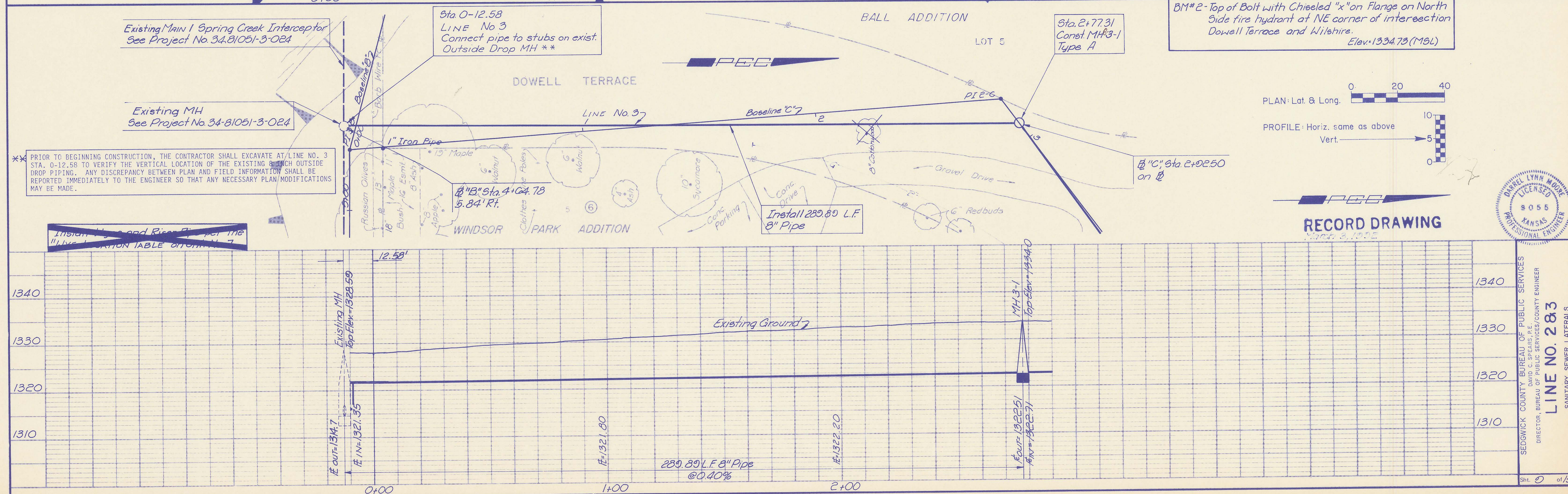
Install 4" Stub and Flg

VOID

316.20 L.F. 8" Pipe @0.40%

FIN=1310.56 from 1-4" Stub

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS
 Job No. 34-8105-14
 Date Jan., 1982
 Designed by L.M. KLR, P.E.
 Drawn by T.C. G.M. SM



Existing Main 1 Spring Creek Interceptor See Project No. 34-81051-3-024

Sta. 0-12.58 LINE No. 3 Connect pipe to stubs on exist. Outside Drop MH **

BALL ADDITION

Sta. 2+77.31 Const. MH 3-1 Type A

BM# 2 - Top of Bolt with Chiseled "x" on Flange on North Side fire hydrant at NE corner of intersection Dowell Terrace and Wilshire. Elev. 1334.73 (MSL)

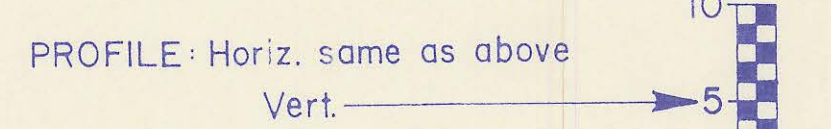
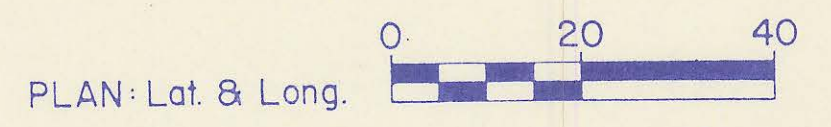
Existing MH See Project No. 34-81051-3-024

** PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AT LINE NO. 3 STA. 0-12.58 TO VERIFY THE VERTICAL LOCATION OF THE EXISTING 8" INCH OUTSIDE DROP PIPING. ANY DISCREPANCY BETWEEN PLAN AND FIELD INFORMATION SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER SO THAT ANY NECESSARY PLAN MODIFICATIONS MAY BE MADE.

Install Lines and Rear Pipe per the "Line Location Table" of Sht. No. 7

1" Iron Pipe
 13" Maple
 10" Sycamore
 8" Redbuds
 6" Ash
 8" Cottonwood
 15" Maple
 10" Walnut
 10" Sycamore
 6" Redbuds
 6" Ash
 8" Cottonwood

Install 289.89 L.F. 8" Pipe

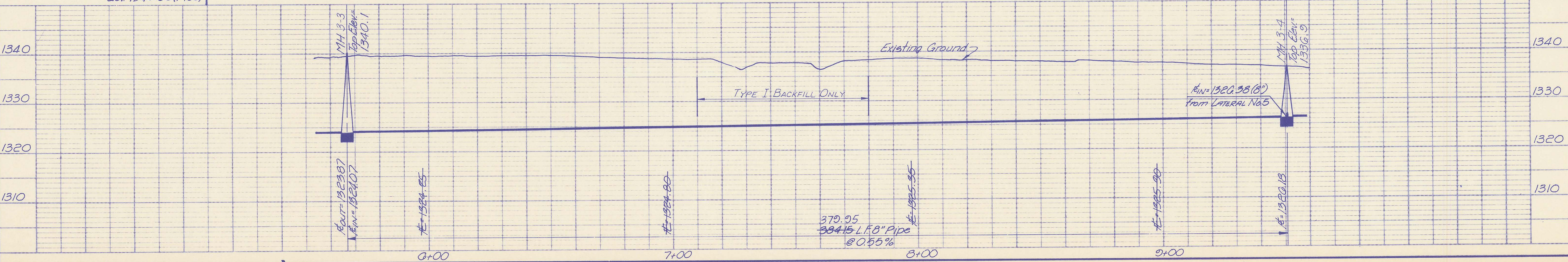
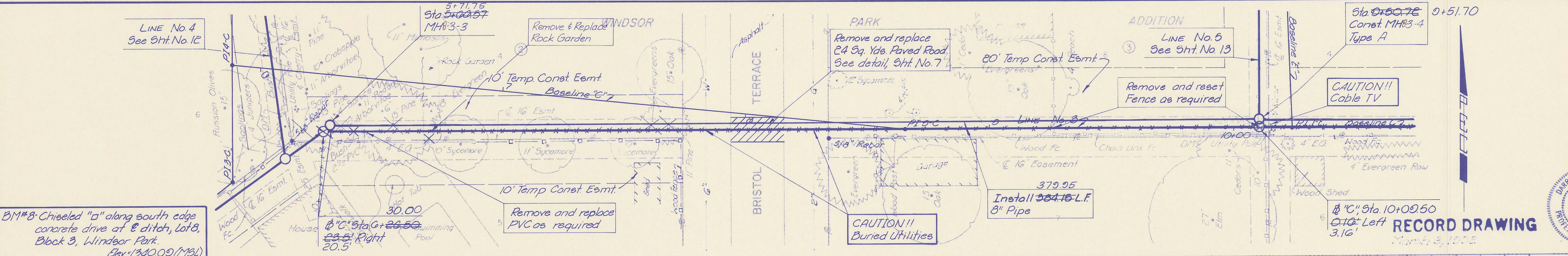
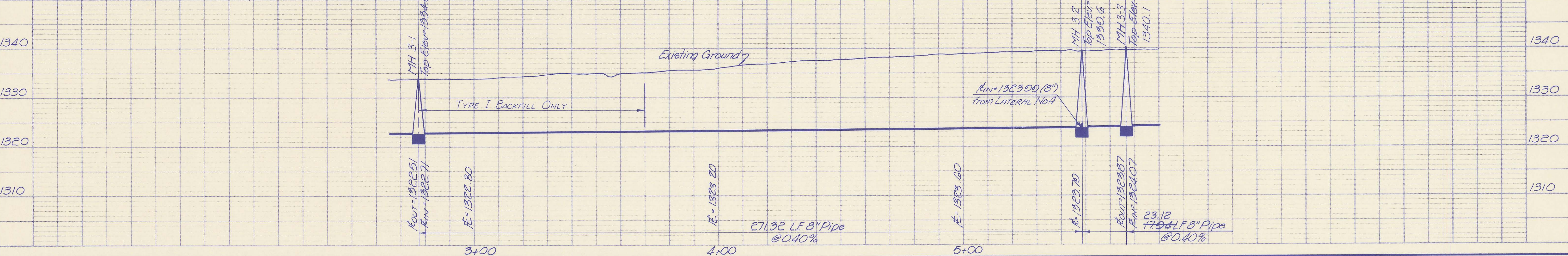
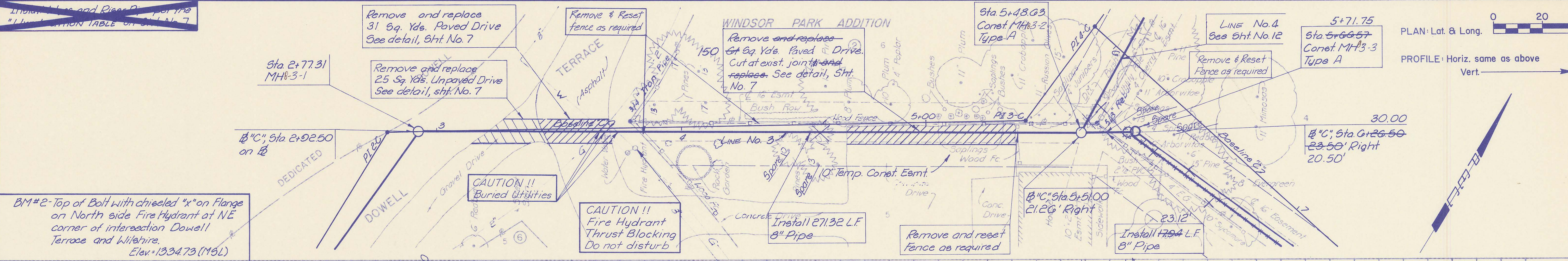
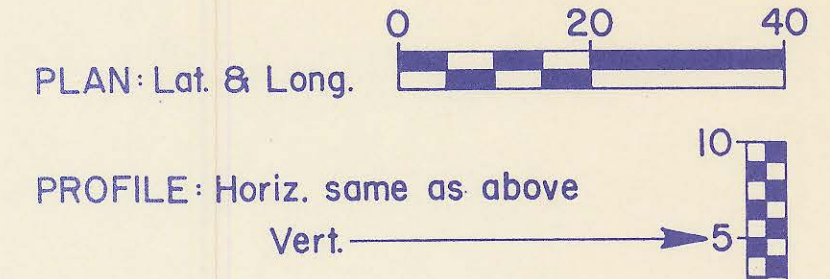


RECORD DRAWING
 March 3, 1982



SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
 DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER
LINE NO. 283
 SANITARY SEWER LATERALS
 WINDSOR PARK LATERAL - SEWER DISTRICT
 Sht. 0 of 15

Indicate and Record for the
"INSTALLATION TABLE" of Sht. No. 7



BM#2- Top of Bolt with chiseled "x" on Flange on North side Fire Hydrant at NE corner of intersection Dowell Terrace and Wilshire. Elev. = 1334.73 (M.S.L.)

BM#8- Chiseled "d" along south edge concrete drive at E ditch, lot 8, Block 3, Windsor Park. Elev. = 1340.09 (M.S.L.)

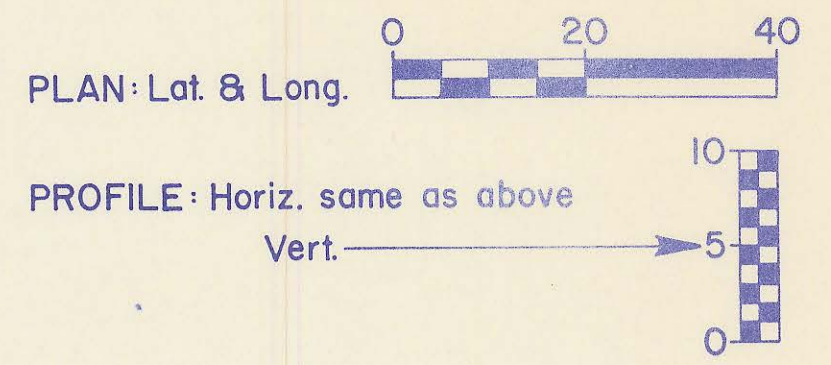
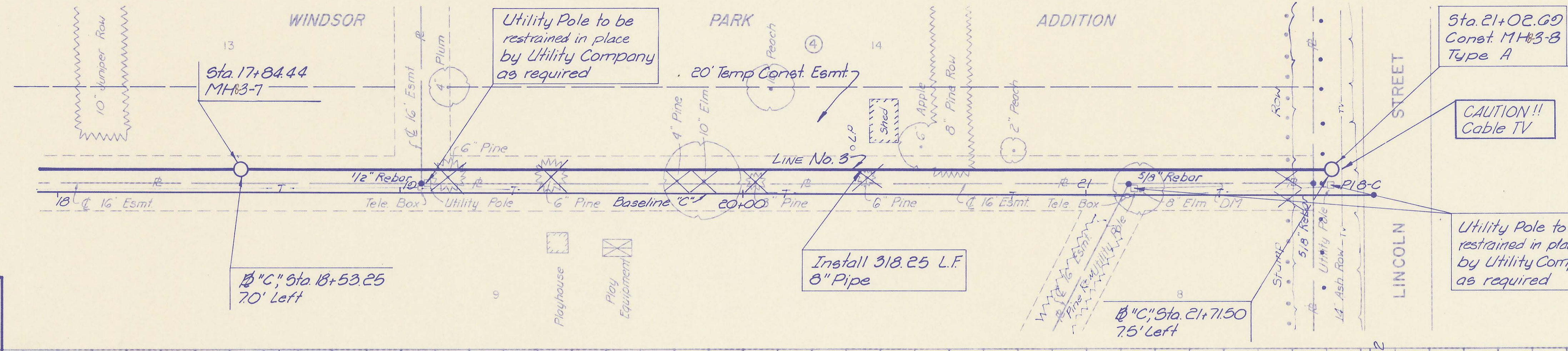
RECORD DRAWING
March 3, 1988

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by L.M. KLR, P.E.
Drawn by T.C. GM, S.M.
Date Jan, 1988

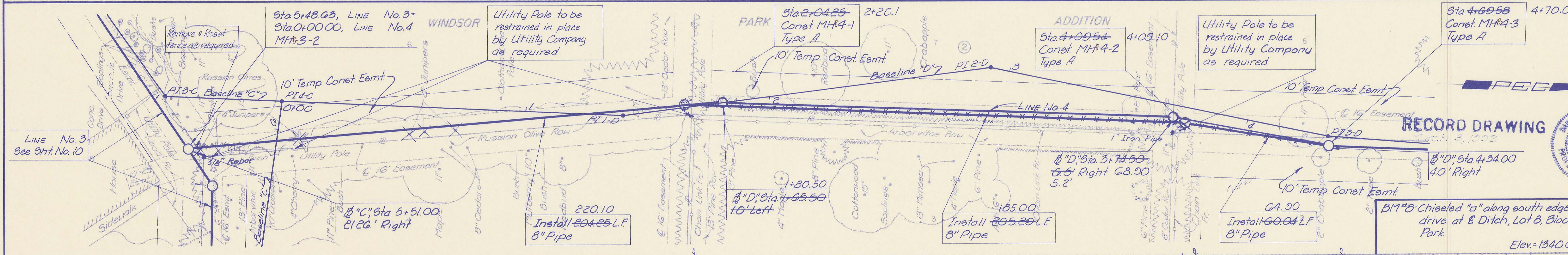
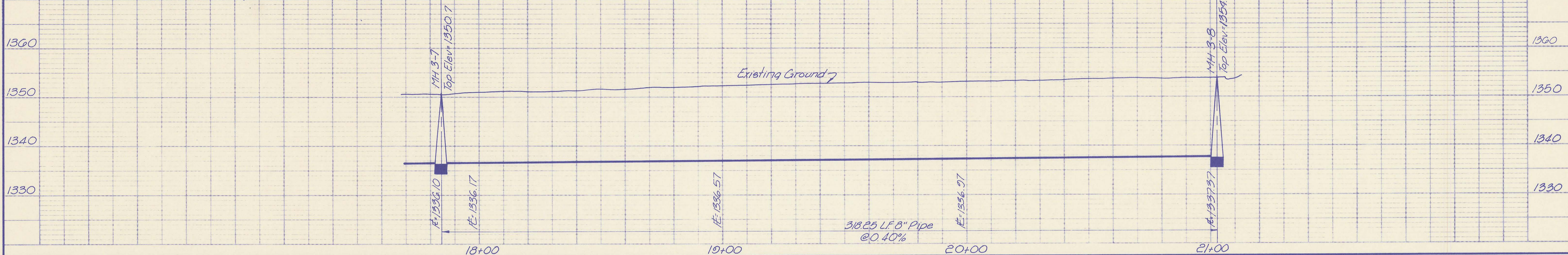


SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER
LINE NO. 3
SANITARY SEWER LATERALS
WINDSOR PARK LATERAL SEWER DISTRICT
Sht. 10 of 15

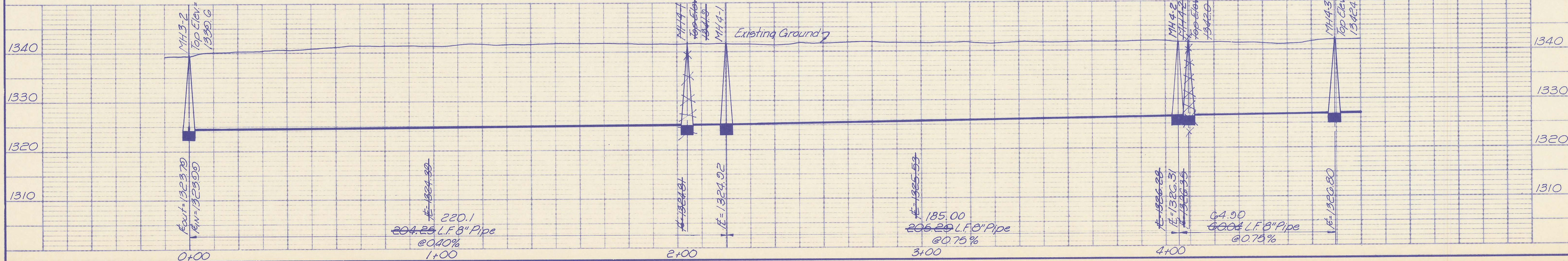
Install Line and River Pipe per the
"Water Line Installation TABLE on Sht. No. 7"



BM#6-Chiseled "a" in NE corner concrete drive, 57.5' NE of NE corner house in Lot 4 Block 4, Windsor Park. Elev. = 1340.41 (M.S.L.)

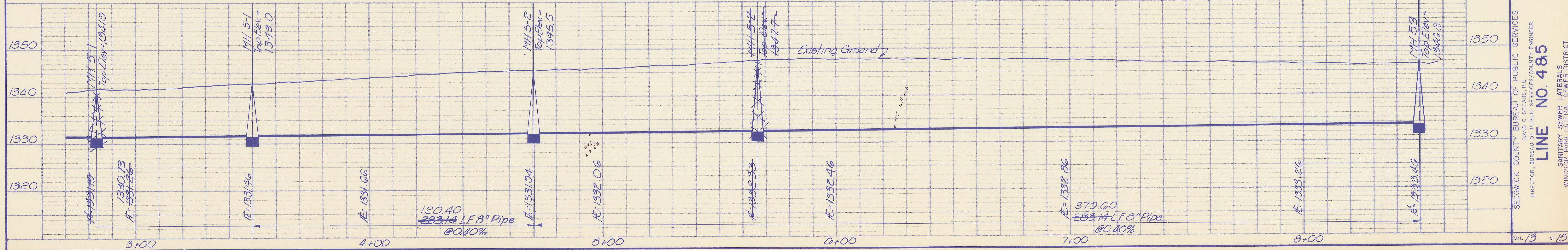
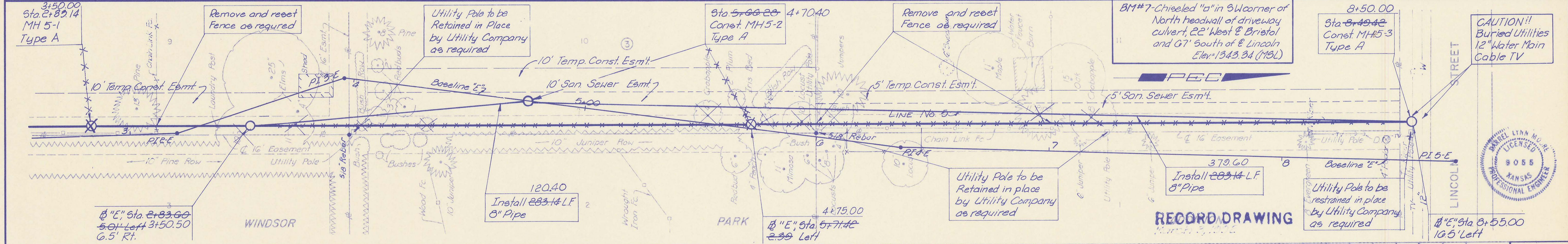
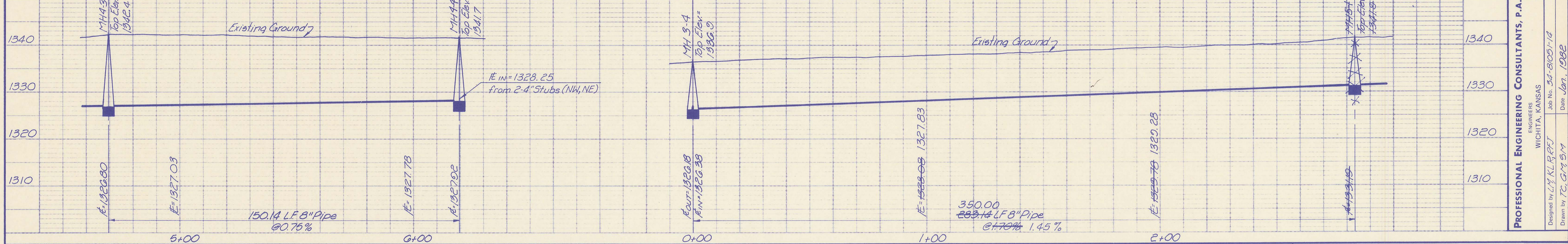
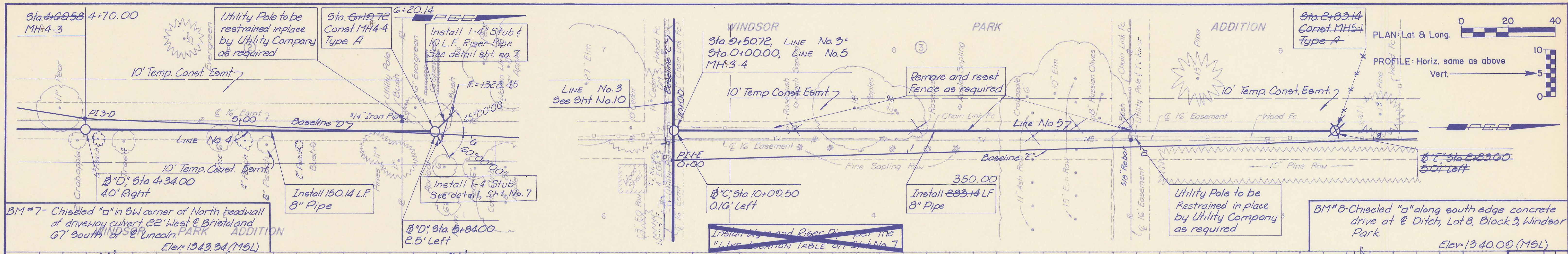


RECORD DRAWING



PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by L.M. KLR, P.E.
Date Jan. 1982
Drawn by T.C. G.M. 97

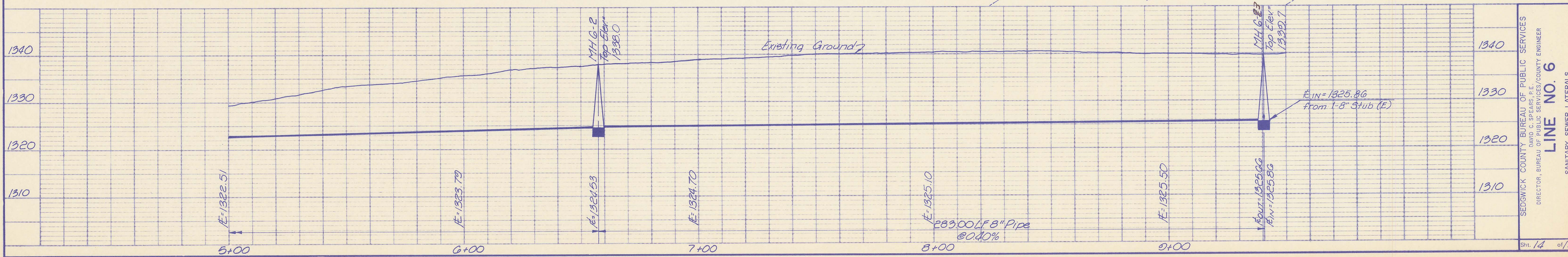
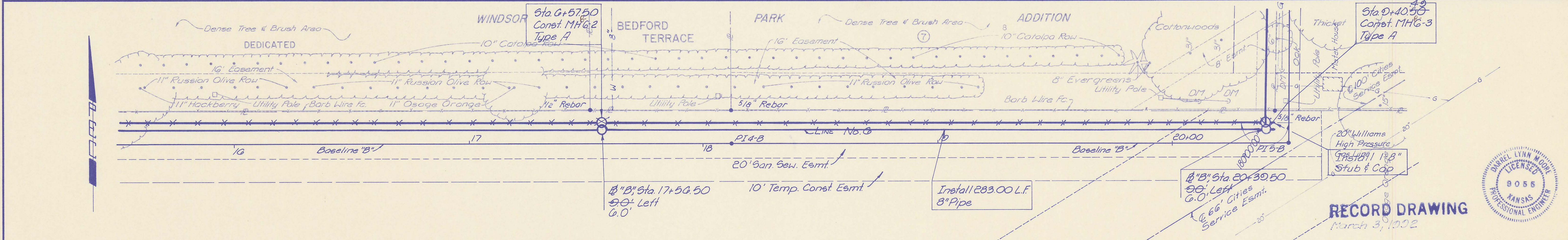
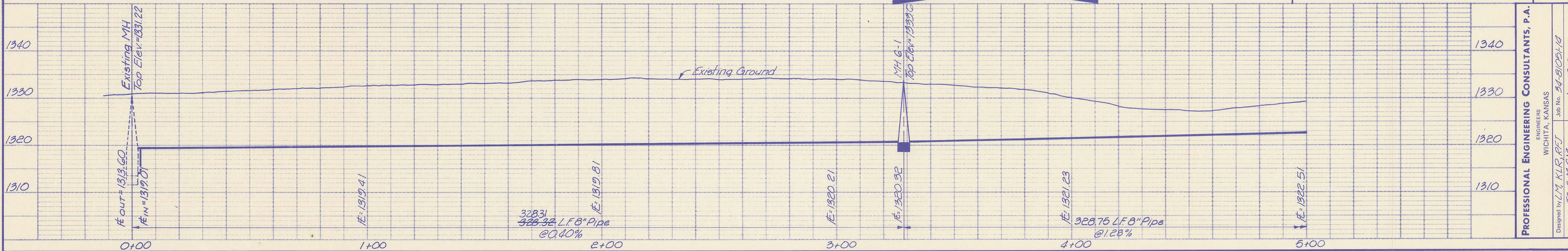
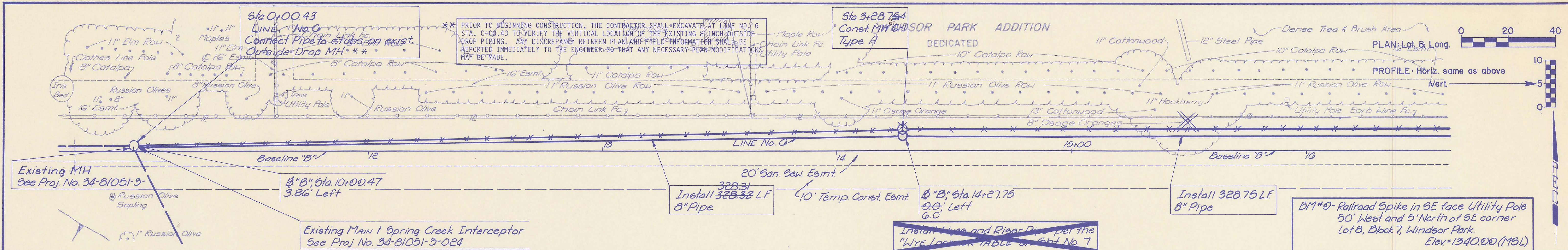
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E.
DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER
LINE NO. 384
SANITARY SEWER LATERALS
WINDSOR PARK LATERAL SEWER DISTRICT
Sht. 12 of 15



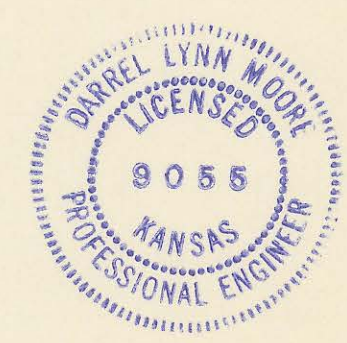
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS
 Designed by L.M. K.L.R.P.F.J.
 Date Jan., 1982



SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
 DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER
LINE NO. 485
 SANITARY SEWER LATERALS
 WINDSOR PARK LATERAL SEWER DISTRICT
 Sht. 13 of 15



PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS
 Job No. 34-81051-14
 Date Jan. 1982
 Designed by L.M. KLR/PJ
 Drawn by T.C.G. M/S



RECORD DRAWING
 March 3, 1982

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
 DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER
LINE NO. 6
 SANITARY SEWER LATERALS
 WINDSOR PARK LATERAL SEWER DISTRICT
 Sht. 14 of 15

Install 1/2" Dia and Rebar Pipe per the "LIVE LOCATION TABLE ON SH. No. 7"

Sta. 0+40.50
MH G-3

8" B' Sta. 20+30.50
5.0' Left
C.O.

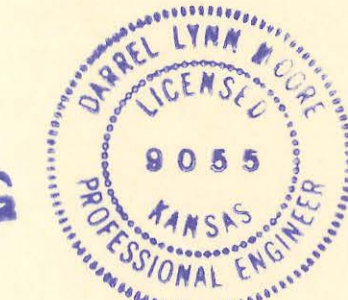
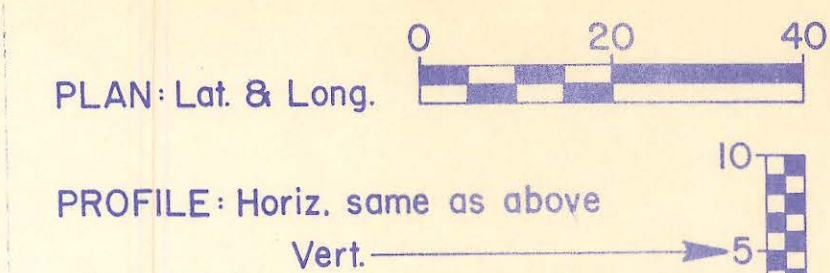
10' Temp Const. Esmt.
WINDSOR PARK

LINE No. 07

CAUTION !!
Gas line

WILSHIRE TERRACE

Sta. 12+30.00 42.98
Const. MH G-4
Type A



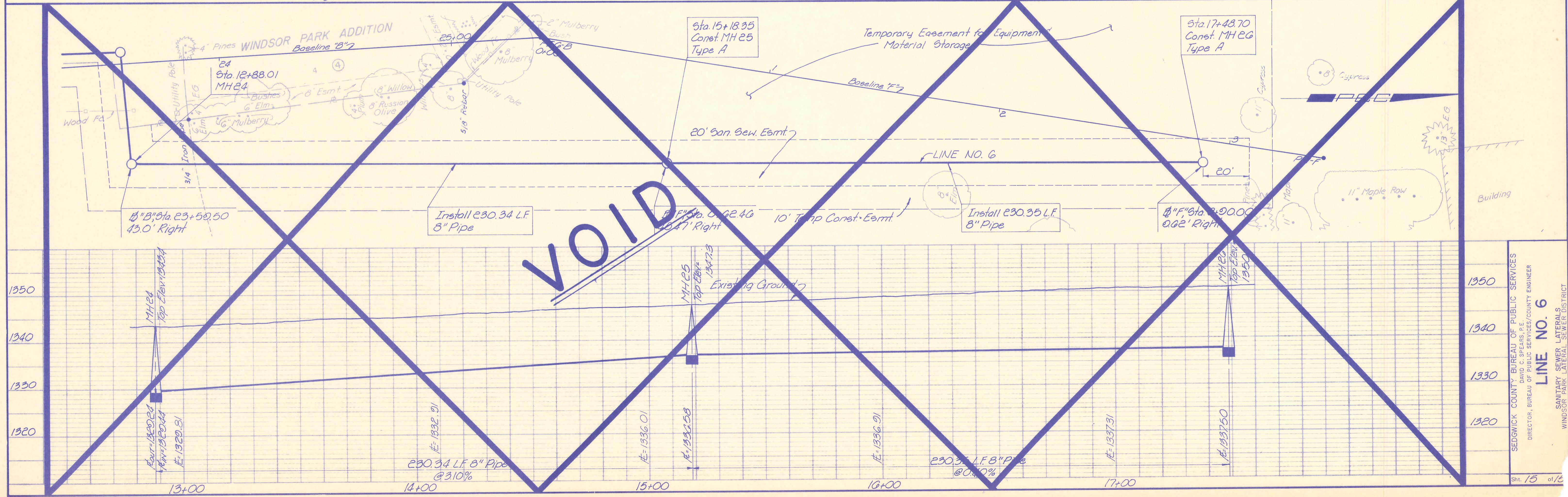
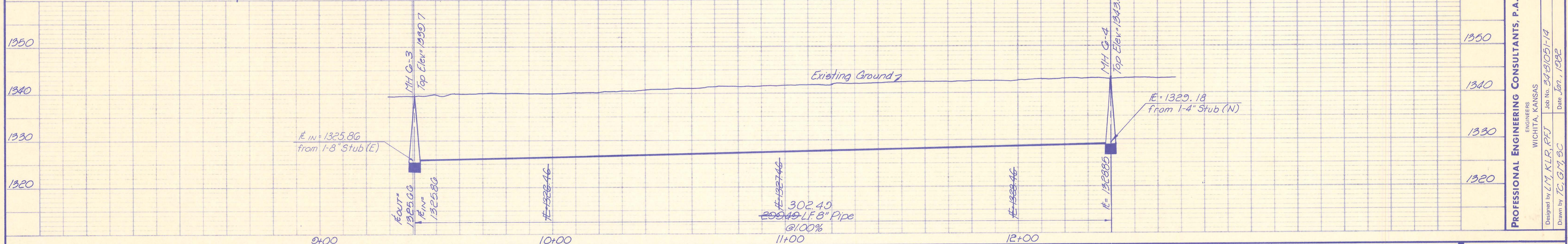
RECORD DRAWING
March 3, 1992

BM#9 Railroad Spike in SE face Utility Pole
50' West and 5' North of SE corner
Lot 8, Block 7, Windsor Park.
Elev. = 1340.00 (MSL)

302.40
Install 200.40 L.F.
8" Pipe

Utility Pole to be
Restrained in place
by Utility Company
as required

Install 1-4" Stub
See Detail Sht. No. 7



PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 248051-14
Date Jan., 1992
Designed by L.M. KLR, P.E.
Drawn by T.G. G.M., G.C.

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E.
DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER
LINE NO. 6
SANITARY SEWER LATERALS
WINDSOR PARK LATERAL SEWER DISTRICT
Sht. 15 of 18

GENERAL NOTES

- UNLESS SHOWN OR STATED OTHERWISE ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WICHITA CONCRETE PAVEMENT AND ASPHALTIC CONCRETE PAVEMENT SPECIFICATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
 - TRANSITION CURB FROM FULL HEIGHT COMBINATION CURB AND GUTTER TO ROLL TYPE COMBINATION CURB AND GUTTER IS TO BE PAID AS BID FOR LINEAL FEET COMBINED CURB AND GUTTER (3 5/8" ROLL).
 - EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
 - 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 1-800-344-7233 OR 687-2470 (LOCAL WICHITA)
- THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:
- | | |
|--------------------------------------|----------------------|
| SOUTHWESTERN BELL TELEPHONE COMPANY | 1-800-734-7590 |
| CABLEVISION | 263-2061 |
| KG&E (GAS & ELECTRIC) | 383-8600 |
| CITY OF WICHITA WATER & SEWER MAINT. | 268-4908 |
| ARKLA GAS COMPANY | 942-8350 OR 263-8161 |
| SEDGWICK COUNTY | 383-7901 |
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
 - A SAW CUT OF AT LEAST ONE-HALF THE DEPTH OF THE EXISTING SURFACE COURSES OR ONE-FOURTH THE DEPTH OF THE EXISTING TOTAL PAVEMENT THICKNESS SHALL BE PROVIDED AT LOCATIONS WHERE PROPOSED CONSTRUCTION ABUTS AN EXISTING SURFACE OR PAVEMENT FOR WHICH PARTIAL REMOVAL OF THAT SURFACE OR PAVEMENT IS REQUIRED. SAW JOINTS TO FACILITATE REMOVAL WITHIN THREE (3) FEET OF EXISTING JOINTS WILL NOT BE PERMITTED AND FOR SUCH INSTANCES THE LIMITS OF REMOVAL SHALL EXTEND TO THE EXISTING JOINT. SUCH SAW CUTS WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE CONSIDERED AS SUBSIDIARY TO THE REMOVAL OF SURFACE OR PAVEMENT.
 - CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED TO THE PROJECT AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION.
 - THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ABUTTING CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.
 - THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, ENTRANCES AND BANK LINES TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE.
 - NO SERVICES WILL BE INSTALLED AS PART OF THIS PROJECT.
 - INTERURBAN TRAFFIC GENERATED OUTSIDE THE PROJECT AREA, AND LOCAL BUSINESS OR RESIDENTIAL TRAFFIC GENERATED WITHIN THE PROJECT AREA ARE TO BE CARRIED THROUGH CONSTRUCTION AS FURTHER PROMULGATED BY PROJECT SPECIAL PROVISIONS.
 - ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE RESTORED WITH THE SAME GRASS/SOD AS EXISTING. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION, SEEDING, MULCH, AND/OR RESEEDING. ALL SEEDING/SODDING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS AND THE CITY OF WICHITA ADMINISTRATIVE REGULATION NO. AR78 WHICH GOVERNS CLEAN-UP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO THE LUMP SUM PRICE BID FOR "SITE RESTORATION".
 - THE CONTRACTOR SHALL LAY A TRACER WIRE & SET TEST STATIONS ALONG ANY NON-METALIC WATER LINE PIPE THEY INSTALL IN ACCORDANCE WITH CITY OF WICHITA SPECIFICATIONS & TRACER WIRE DETAIL ON DETAIL SHEET. INSTALLATION COST WILL BE BID SUBSIDIARY TO PIPE INSTALLATION.
 - THE CONTRACTOR SHALL COORDINATE LOCATION FOR EXCESS MATERIAL TO BE WASTED WITH THE DEVELOPER (JOE LEE, 636-5290). MAXIMUM HAUL DISTANCE 3/4 OF A MILE.

PAVING STREETS IN LINCOLN STREET

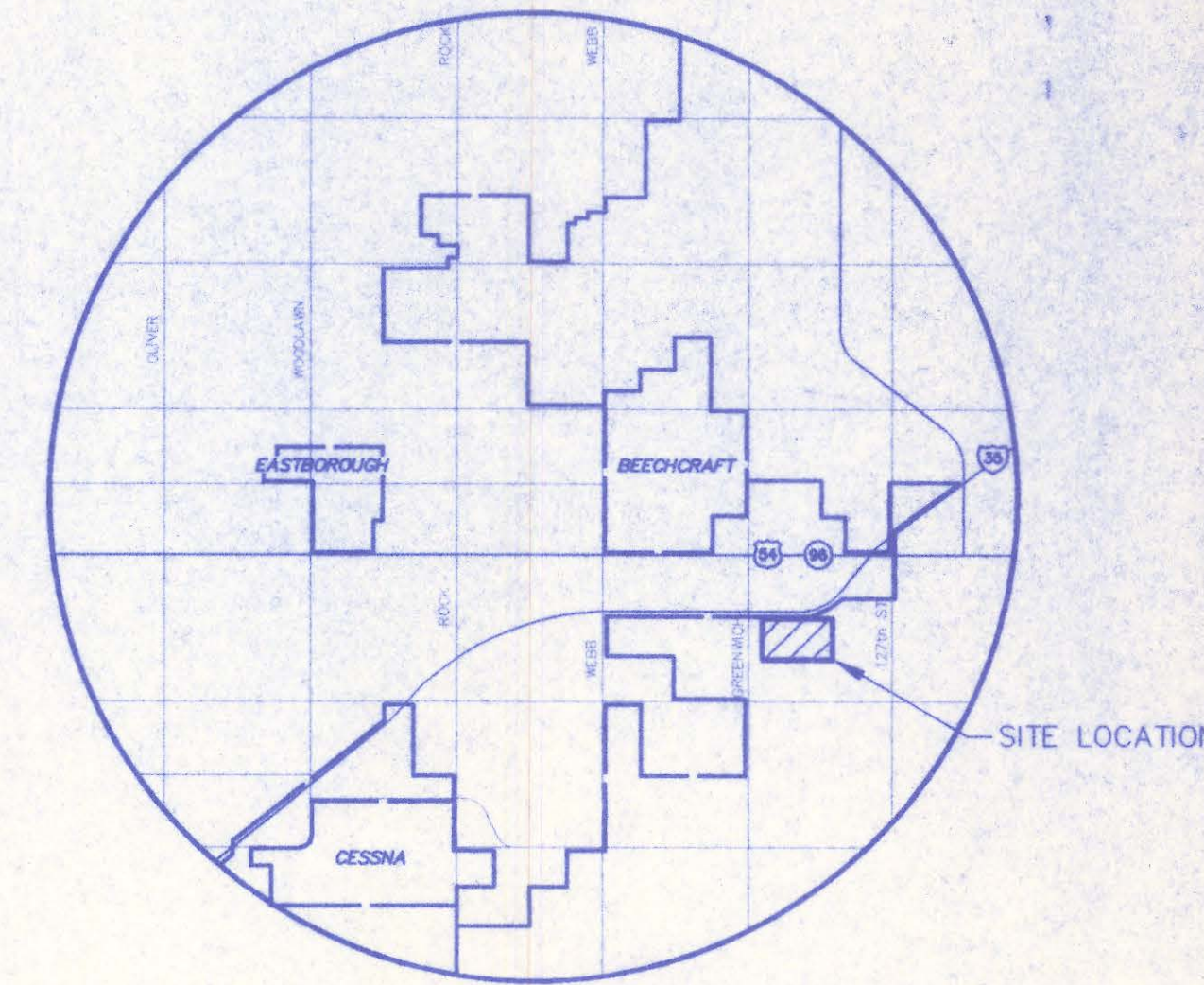
WICHITA, SEDGWICK COUNTY, KANSAS

PROJECT NO. 472-82696

MICHAEL E. LINDEBAK, CITY ENGINEER

INDEX CODE 763748

LINCOLN: FROM THE EAST LINE OF GREENWICH ROAD TO TO THE EAST LINE OF BEDFORD.
LINCOLN: FROM THE EAST LINE OF BEDFORD TO THE WEST LINE OF WOODLAND LAKES ESTATES ADDITION.
GREENWICH ROAD: A LEFT TURN STORAGE LANE TO SERVE LINCOLN.



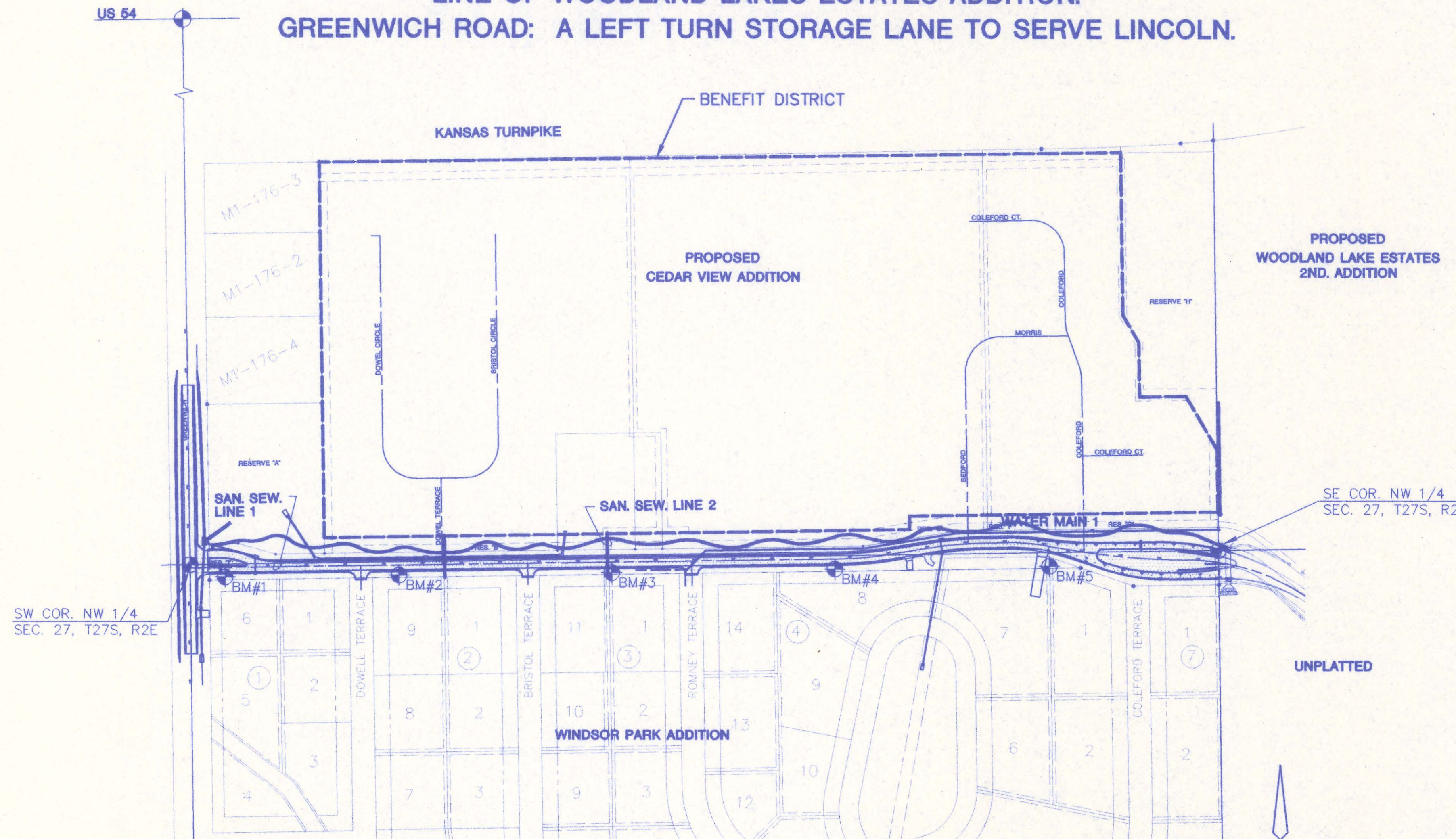
LOCATION MAP

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	TYP. PAVING SECTIONS
4-8	LINCOLN STREET
9-10	GREENWICH ROAD
11-13	PAVING DETAILS
14-20	STORM SEWER PLAN/PROFILE
21-25	STORM SEWER DETAILS
26	DETENTION POND
27	PAVEMENT MARKING
28	SIGN DETAILS
29	SIDEWALK PLAN
29A	HANDRAIL DETAILS
30-31	WATER DISTRIBUTION PLANS
32	WATER ASSEMBLY DETAILS
33	SANITARY SEWER PLANS
34	MANHOLE DETAILS
35-51	PAVING CROSS SECTIONS
52-53	FINAL PLATS

BENCHMARKS

BM #1	RAILROAD SPIKE IN 2ND. POWER POLE EAST OF GREENWICH ROAD AND SOUTH OF LINCOLN. ELEV. = 1336.39
BM #2	RAILROAD SPIKE IN 1ST. POWER POLE EAST OF DOWELL AND SOUTH OF LINCOLN. ELEV. = 1340.16
BM #3	RAILROAD SPIKE IN 2ND. POWER POLE EAST OF BRISTOL AND SOUTH OF LINCOLN. ELEV. = 1347.04
BM #4	RAILROAD SPIKE IN 3RD. POWER POLE EAST OF ROMNEY AND SOUTH OF LINCOLN. ELEV. = 1353.53
BM #5	RAILROAD SPIKE IN 4TH. POWER POLE WEST OF SOUTHEAST CORNER OF CEDAR VIEW ADDITION. ELEV. = 1354.44



LEGEND

EXISTING WATER MAIN	---
PROPOSED WATER MAIN	---
EXISTING WATER VALVE	—V—
PROPOSED WATER VALVE	—V—
EXISTING FIRE HYDRANT	—FH—
PROPOSED FIRE HYDRANT	—FH—

LENGTH OF PROJECT	
LINCOLN ST.	2658 FT.
GREENWICH RD.	690 FT.
EARTHWORK SUMMARY	
EXCAVATION	27620 C.Y.
LOOSE FILL	9015 C.Y.
COMPACTED FILL	2055 C.Y.

SCALE: 1" = 200'

LEGEND

• IRON

AS BUILT: 7/99

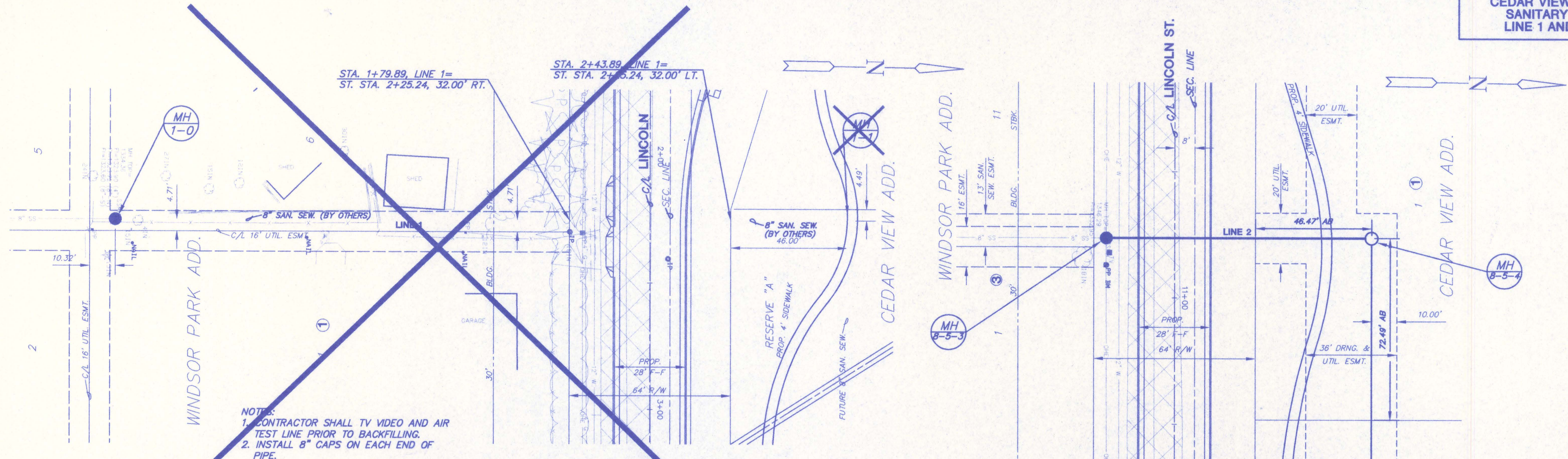


MID-KANSAS ENGINEERING CONSULTANTS, INC.
 411 N. WEBB ROAD
 WICHITA, KS. 67206
 316-684-9600

LINCOLN STREET
PROJECT NAME

PAVING PLANS
SHEET TITLE

GJA DESIGN BY.	WNJ DRAWN BY.	GJA CHECKED BY.
AUGUST 1998 DATE	196037_ET JOB NO.	1 / 53 SHEET / OF

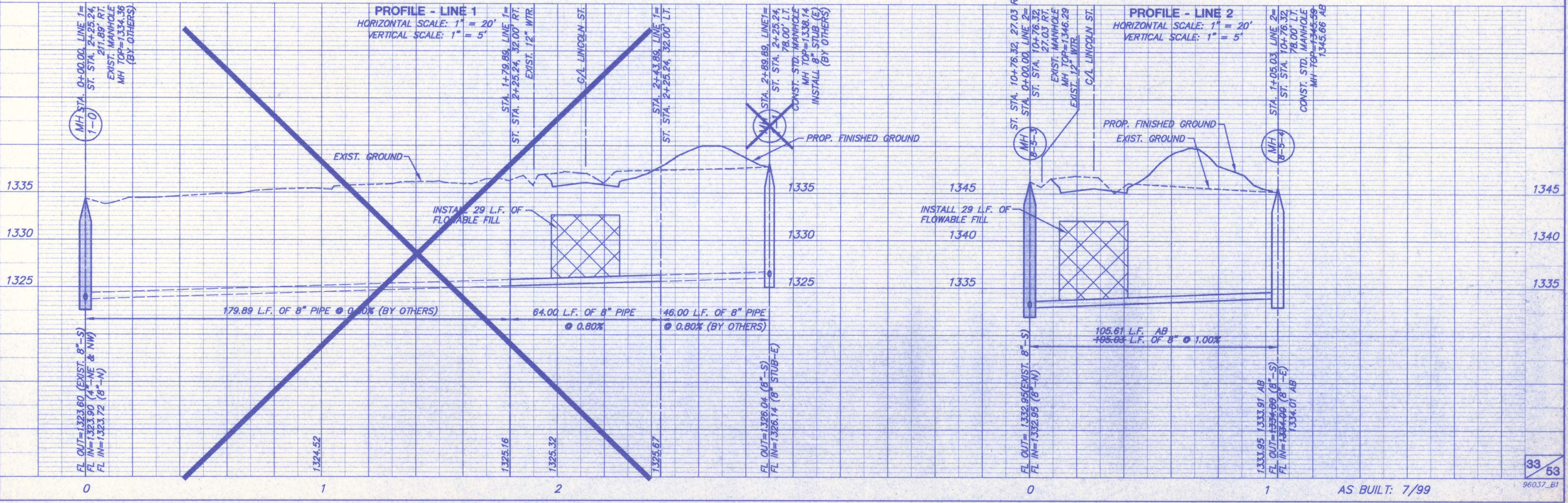


NOTES:
1. CONTRACTOR SHALL TV VIDEO AND AIR TEST LINE PRIOR TO BACKFILLING.
2. INSTALL 8" CAPS ON EACH END OF PIPE.

PLAN - LINE 1
SCALE: 1" = 20'

PLAN - LINE 2
SCALE: 1" = 20'

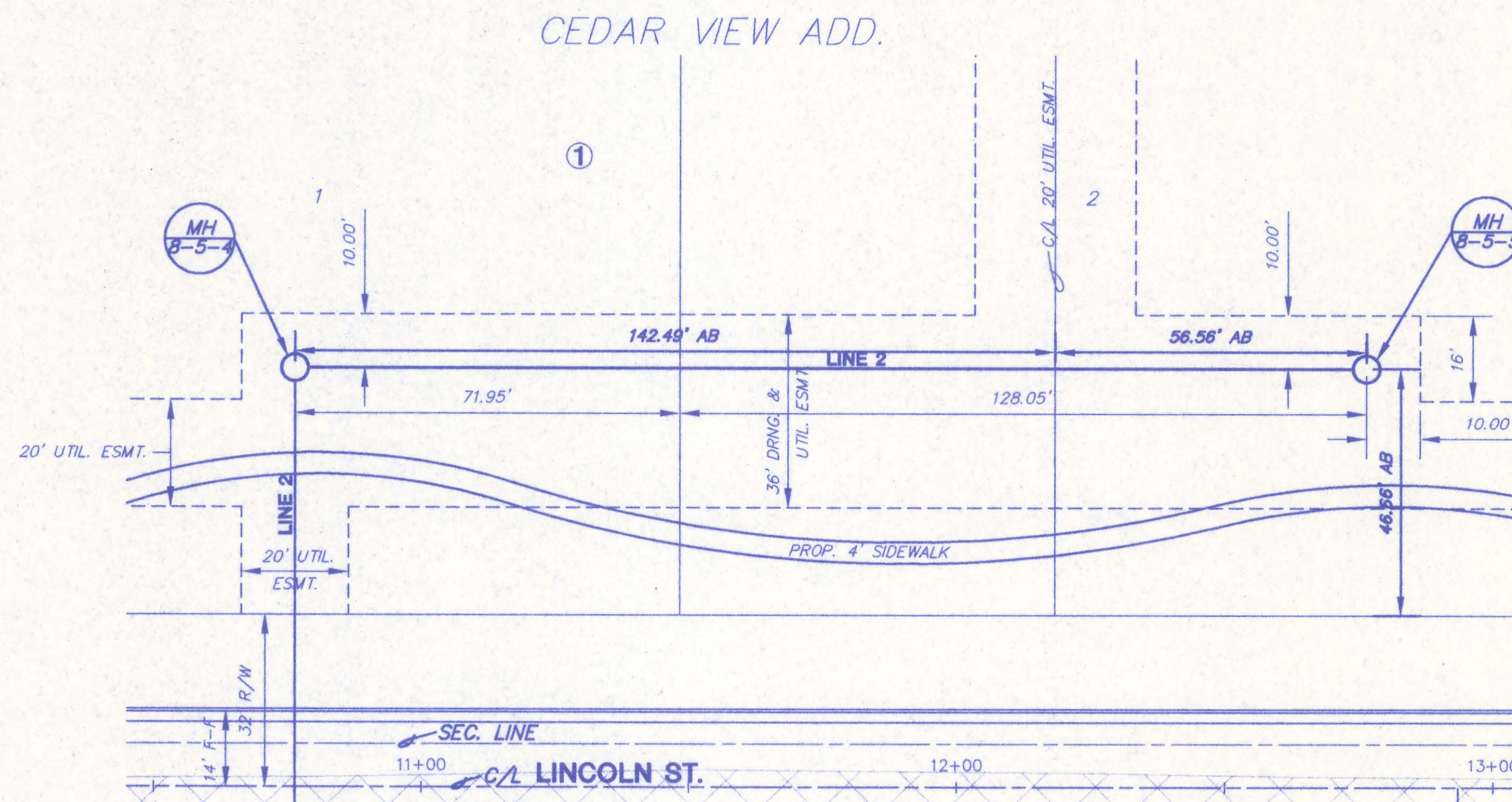
REVISED 2/3/99



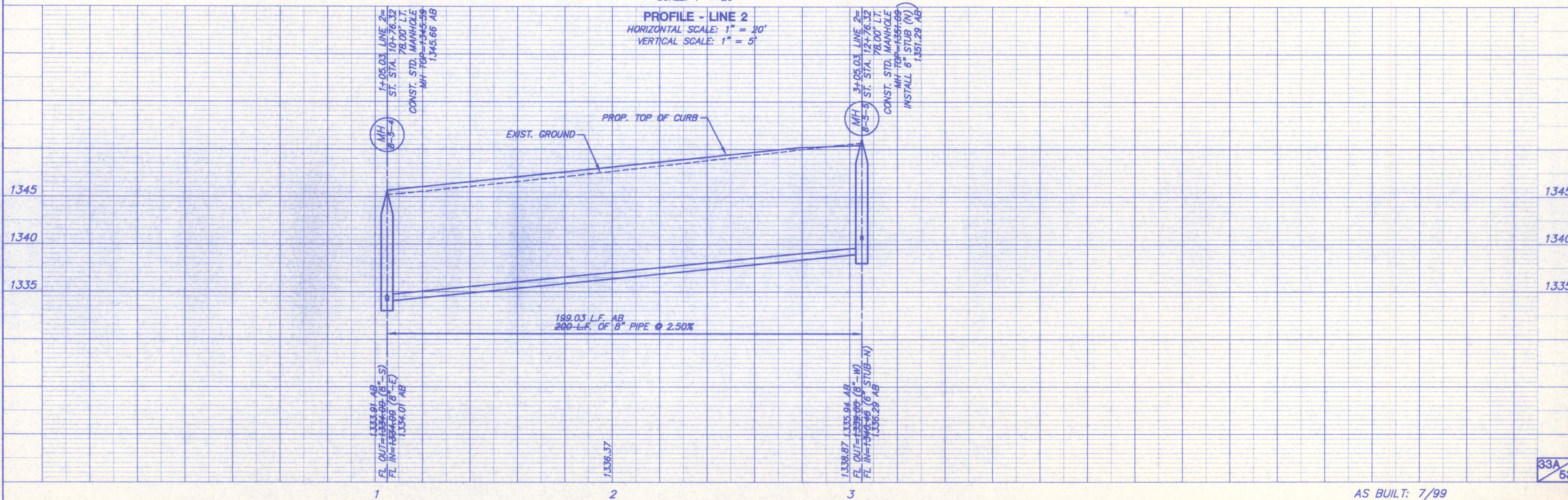
PROFILE - LINE 1
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

PROFILE - LINE 2
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

AS BUILT: 7/99



PLAN - LINE 2
SCALE: 1" = 20'



PROFILE - LINE 2
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

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