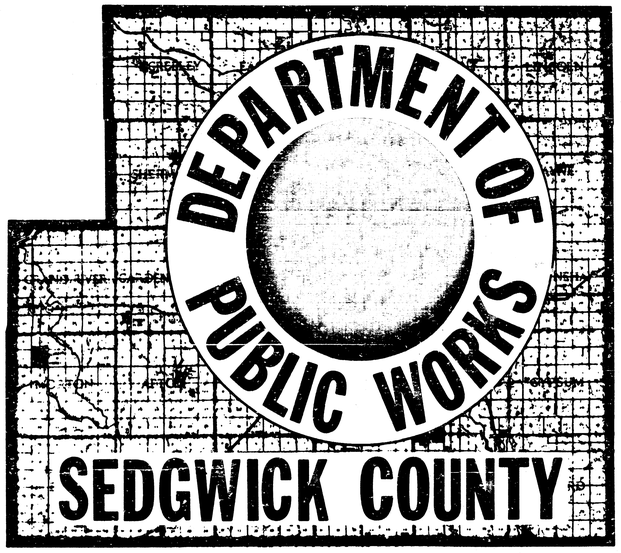
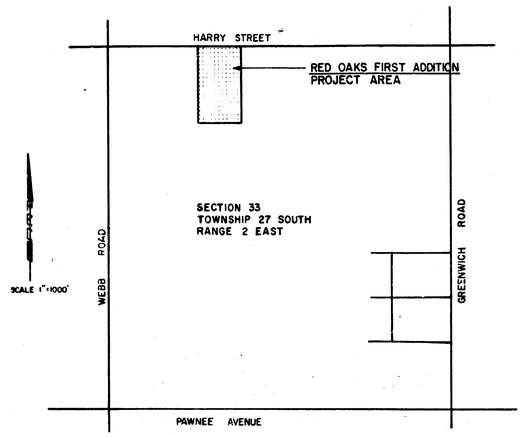
SHEET NO.	TOTAL SHEETS
1	6

INDEX OF SHEETS

SHEET NO 1	TITLE SHEET
SHEET NO 2	KEY MAP & SCHEDULE
SHEET NOs 3&4	SANITARY SEWER DETAILS
SHEET NOs 5&6	PLAN PROFILES





LOCATION MAP

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
[illegible] PROJ. ENG. 11/24/79 DATE
RES. ENG. DATE

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

FILED
FILED IN THE OFFICE OF
THE SEDGWICK COUNTY CLERK
[illegible] 1-24-79
COUNTY CLERK DATE

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

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

CONVENTIONAL SIGNS

- WIRE FENCE
- HEDGE ROW
- RAILROADS
- SURVEY LINE
- 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

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

APPROVED DATE
[illegible] 12/15/78
WICHITA SEDGWICK COUNTY
DEPARTMENT OF COMMUNITY HEALTH

1/6

Private

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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 RESETTING 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)

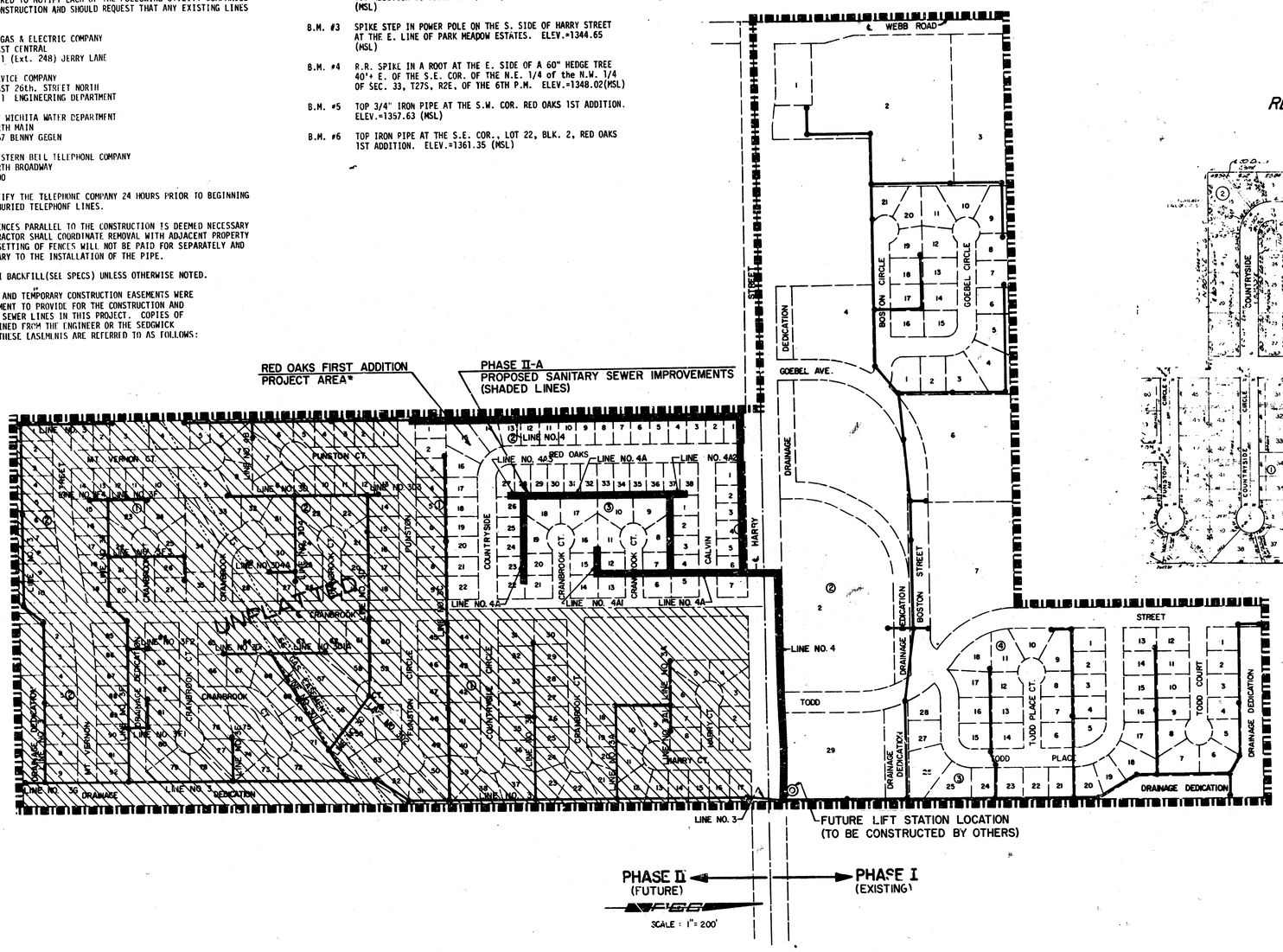
B.M. #3 SPIKE STEP IN POWER POLE ON THE S. SIDE OF HARRY STREET AT THE E. LINE OF PARK MEADOW ESTATES. ELEV.=1344.65 (MSL)

B.M. #4 R.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)

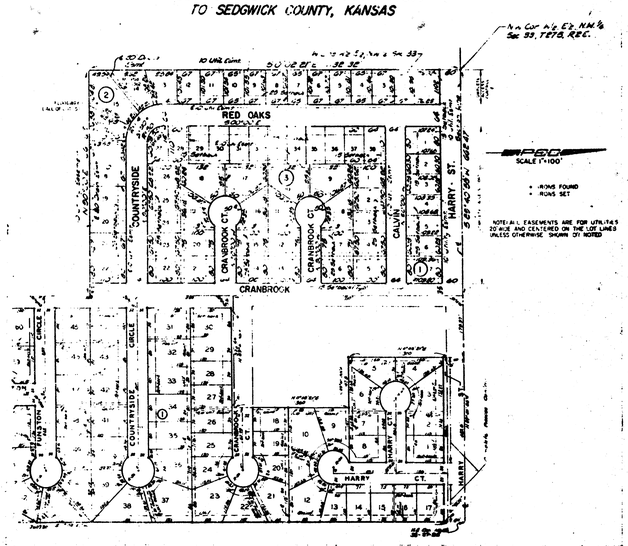
B.M. #6 TOP IRON PIPE AT THE S.E. COR., LOT 22, BLK. 2, RED OAKS 1ST ADDITION. ELEV.=1361.35 (MSL)

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



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

RED OAKS FIRST ADDITION
TO SEDGWICK COUNTY, KANSAS



LEGEND

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

AS CONSTRUCTED
MDS FINAL ENG. 11/2/78 DATE
RES ENG. DATE

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.

MICHAEL D. SCHOMMER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date

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. 7G40G | Sht. 2 of 6
Drawn by T.S., R.F.J. | Date Nov, 1978

2/6

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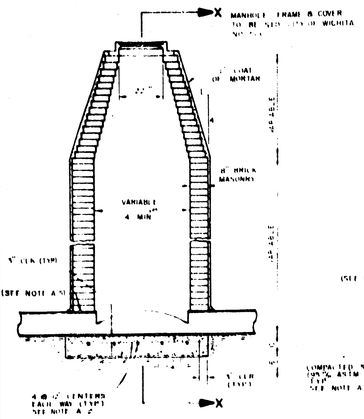
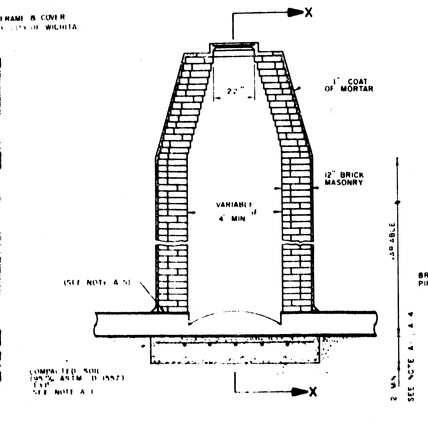
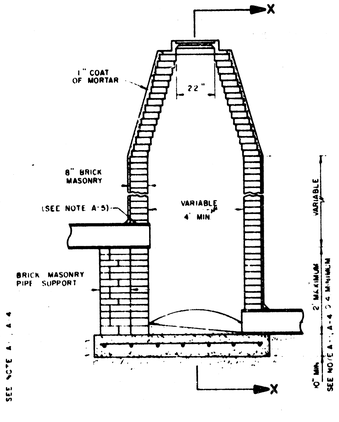


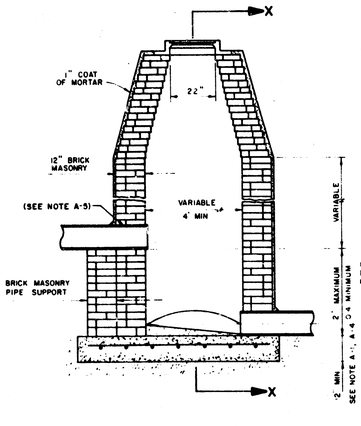
STANDARD MANHOLE
TYPE A



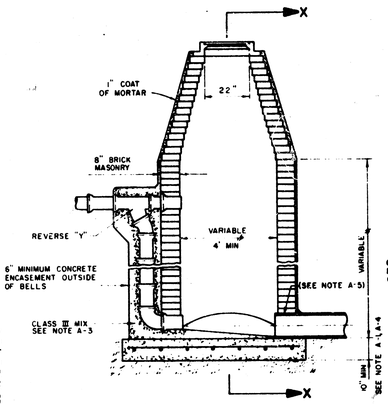
STANDARD MANHOLE
TYPE AA



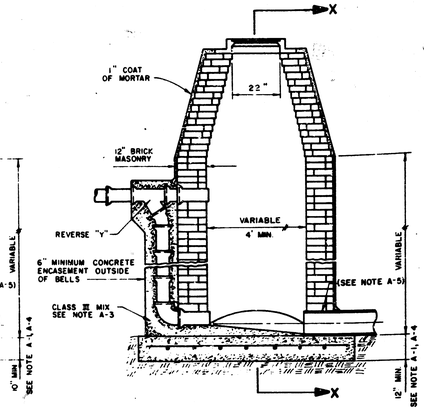
DROP MANHOLE
TYPE B



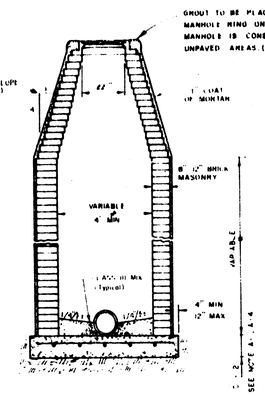
DROP MANHOLE
TYPE BB



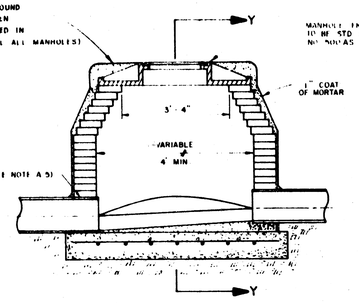
OUTSIDE DROP MANHOLE
TYPE C



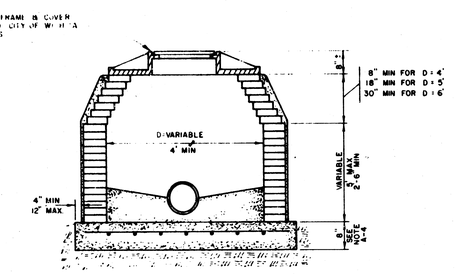
OUTSIDE DROP MANHOLE
TYPE CC



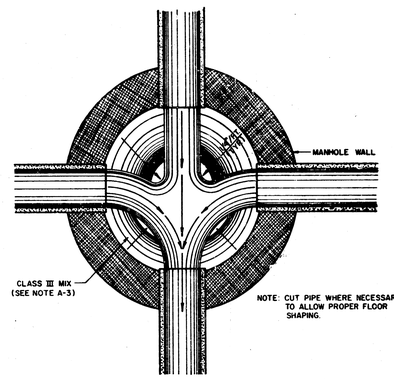
SECTION X



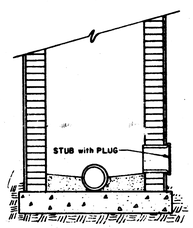
SHALLOW MANHOLE
TYPE D



SECTION Y



TYPICAL MANHOLE
FLOOR SHAPING



STUB DETAIL

NOTES

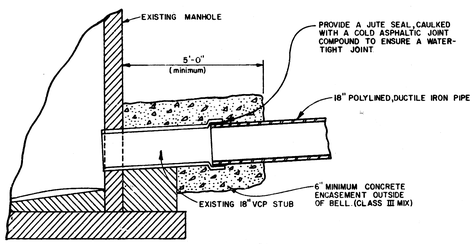
A. MANHOLES
1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR HAS THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING IS REQUIRED IN ALL MANHOLE BASES.
3. MORTAR USED IN MASONRY 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.

WYE NO.	LOCATION			PIPE RISER	DISTANCE FROM MANHOLE*	
	LINE NO.	STATION	DIRECTION	(L.F.)	UPSTREAM	DOWNSTREAM
1	4	6+90±	LEFT	5		
2	4	8+27±	LEFT	5		
3	4	8+87±	LEFT	4		
4	4	12+14±	LEFT	4		
5	4	14+40±	LEFT	4		
6	4	15+10±	LEFT	5		
7	4	15+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	19+00±	LEFT	4		

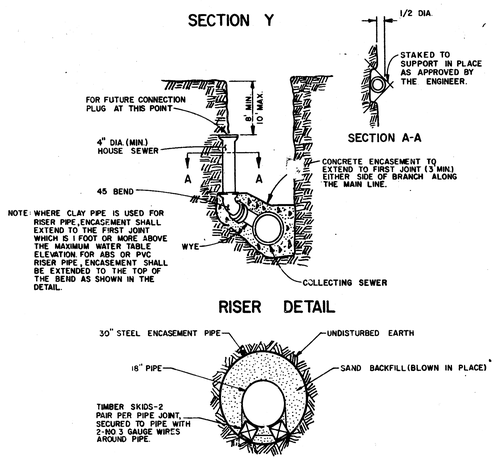
RISER LOCATION TABLE

WYE NO.'S 1 THRU 4 ARE 12"x4" WYES
WYE NO.'S 5 THRU 12 ARE 10"x 4" WYES

* THIS ITEM TO BE COMPLETED BY THE RESIDENT INSPECTOR AT TIME OF INSTALLATION.

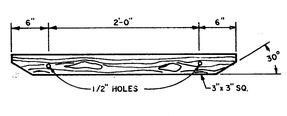


SPECIAL JOINTING DETAIL



RISER DETAIL

BORING ENCASEMENT DETAIL



TIMBER SKID DETAIL

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

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

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 M.D.S. | Job No 7649G | Sht 3 of 3/6
Drawn by R.F.J. | Date Nov, 78

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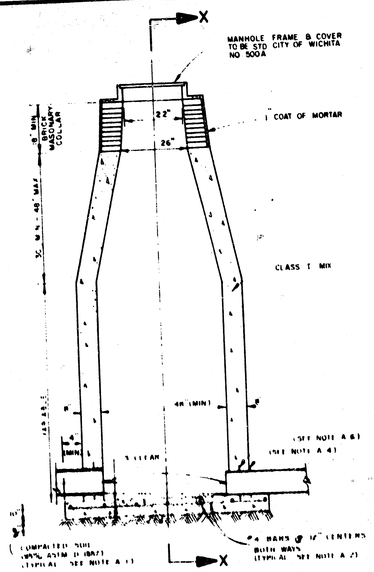
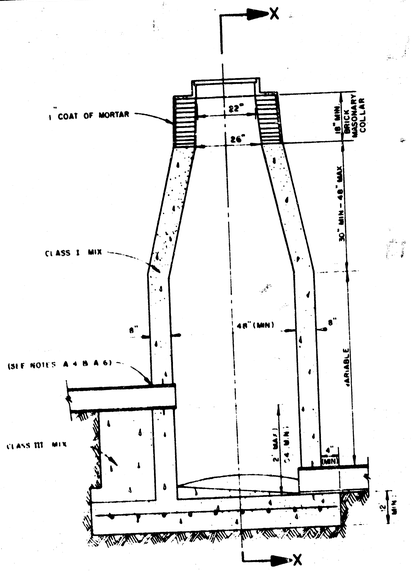
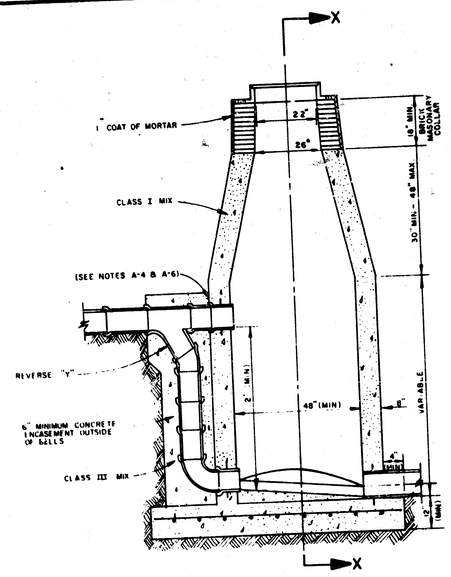


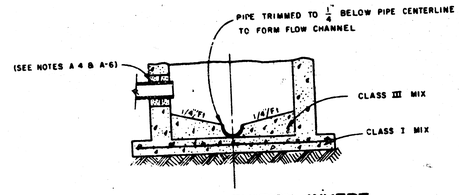
CAST IN PLACE
STANDARD MANHOLE
TYPE "E-A"



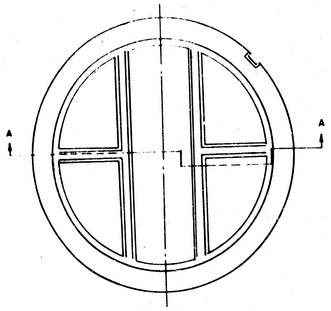
CAST IN PLACE
DROP MANHOLE
TYPE "E-B"



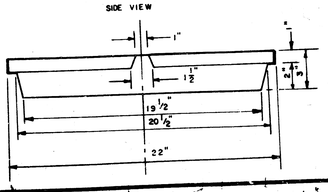
CAST IN PLACE
OUTSIDE DROP MANHOLE
TYPE "E-C"

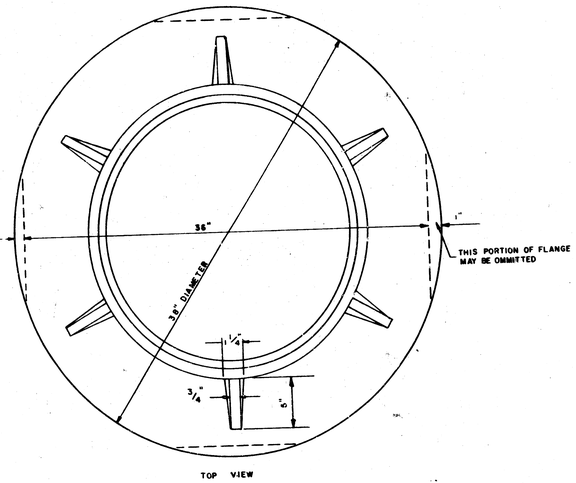


SECTIONAL ELEVATION-INVERT



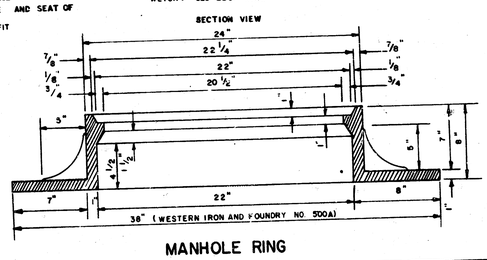
MANHOLE COVER
WEIGHT 110 LBS.



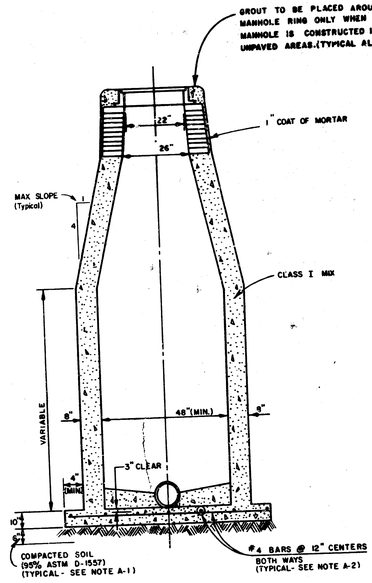


OUTSIDE CIRCUMFERENCE OF COVER AND THE INNER FACE AND SEAT OF RING TO BE MACHINE FIT

WEIGHT 325 LBS. RING



MANHOLE RING



SECTION X

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

A. MANHOLES

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 DETERIORATION 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
MARK PROJ. ENG. DATE
REA ENG. DATE

MICHAEL D. SCHONMEIER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

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 M.D.S. | Job No. 70496 | Sht. 4 of 6
Drawn by | Date 3/21/77

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Sta. 2+25.46, Line No. 3 =
Sta. 0+00.00, Line No. 4
Const. M.H. 45
Type CC 2ND

PROPOSED HUNTCREST ADDITION

HUNTCREST ADDITION

Install 1-15" Stub

Barbed Wire Fence

Heavy Trees

CAUTION !!!
16" Water Main

Install 1254.6 L.F.
18" D.I. Pipe

Sta. 1+00.00
Existing MH

Line No. 1

Phase II
Phase I

Install 299.[illegible] L.F.
12" Pipe

Sta. 1+20.00 to Sta. 1+87.00
67.00 L.F. Boring 30" Steel
Encasement. See Detail Sheet No. 3

Connect 18" D.I. Pipe to existing 18" VCP Stub
See Detail Sheet No. 3

Sta. 2+99.63
Const. M.H. 105
Type A

Install 2[illegible] L.F.
12" Pipe

Sta. 5+39.50
Const. M.H. 106
Type A

Install Wye No. 1
See Wye Location Table
Sheet No. 3

Install 227.97 L.F.
12" Pipe

Sta. 7+67.47
Const. M.H. 107
Type CC

Line No. 4A

Install Wye No. 2
See Wye Location Table
Sheet No. 3

Install 301.12 L.F.
10" Pipe

Install Wye No. 3
See Wye Location Table
Sheet No. 3

Sta. 10+68.89
Const. M.H. 108
Type A

Install 235.07 L.F.
10" Pipe

Install 1-8" Stub

Sta. 13+04.96
Const. M.H. 109
Type C

Install Wye No. 4
See Wye Location Table
Sheet No. 3

B.M. #1- Chis'd 'o' on N.W. cor. R.C.B., Approx. 1600' E. of ℄ of Nebo Road and Harry Street. El=1351.48 (MSL)

B.M. #2- Top Iron pipe at the N.E. cor., Lot 7, Blk 1, Red Oaks 1st Addn. El=1351.30 (MSL)

SCALE
TYPICAL ALL PLAN PROFILE SHEETS
PROFILE: Horiz. same as above
Vertical

Heavy Trees

Existing Ground

Existing Ground

See Change Order No. 1

Borings should be performed to provide maximum flexibility to connect to Exist. 18" Stub

Note: Elevations, stationing, and grades have not been revised to reflect field measurements

Elev=1325.27

Elev=1325.52 (15') from Stub

Elev=1324.00 (15') from Line No. 4

Elev=1322.[illegible] (15') from Line No. 4

Elev=1324.88 (15') from Line No. 4A

Elev=1325.[illegible] (15') from Stub

200.26 L.F. 12" Pipe @ 1.00%

240.22 L.F. 18" Pipe @ 0.21%

227.97 L.F. 12" Pipe @ 0.21%

Install 302.34 L.F.
10" Pipe

Sta. 13+04.96
M.H. 109

Install Wye No. 5
See Wye Location Table
Sheet No. 3

Install Wye No. 6
See Wye Location Table
Sheet No. 3

Install Wye No. 7
See Wye Location Table
Sheet No. 3

Sta. 16+07.30
Const. M.H. 110
Type AA

Install Wye No. 8
See Wye Location Table
Sheet No. 3

Install Wye No. 9
See Wye Location Table
Sheet No. 3

Install Wye No. 10
See Wye Location Table
Sheet No. 3

Install 300.00 L.F.
10" Pipe

Install Wye No. 11
See Wye Location Table
Sheet No. 3

Sta. 19+07.30
Const. M.H. 111
Type A

Install Wye No. 12
See Wye Location Table
Sheet No. 3

Install 300.00 L.F.
10" Pipe

Install 1-8" Stub

Sta. 22+07.30
Const. M.H. 112
Type A

Install 273.00 L.F.
8" Pipe

Sta. 24+80.30
Const. M.H. 113
Type A

B.M. #3- Top 3/4" Iron pipe at S.W. cor. Red Oaks 1st Addn. El=1357.03 (MSL)

Floodway (All of lot 15)

Existing Ground

Existing Ground

Existing Ground

Existing Ground

Elev=1350.[illegible] (15') from Stub

Elev=1350.[illegible] (15') from Stub

303.34 302.34 L.F. 10" Pipe @ 0.25 %

299.88 L.F. 10" Pipe @ 0.43 %

299.68 L.F. 10" Pipe @ 0.00 %

278.96 L.F. 8" Pipe @ 0.00 %

AS CONSTRUCTED

HARRY ST

RED OAKS 2 ND. ADDITION

FUTURE RED OAKS ADDITION

FUNSTON

Utility Easement

15' Temp Const Esmt.

10' Utility Easement

Iron

Power Pole

Edge Pvmt

Existing ditch

16" Water Main

CROSSBROOK

CT.

STREET

Sta. 1+00 Sta. 2+00 Sta. 3+00 Sta. 4+00 Sta. 5+00 Sta. 6+00 Sta. 7+00 Sta. 8+00 Sta. 9+00 Sta. 10+00 Sta. 11+00 Sta. 12+00 Sta. 13+00

Sta. 13+00 Sta. 14+00 Sta. 15+00 Sta. 16+00 Sta. 17+00 Sta. 18+00 Sta. 19+00 Sta. 20+00 Sta. 21+00 Sta. 22+00 Sta. 23+00 Sta. 24+00 Sta. 25+00

1360 1350 1340 1330

MICHAEL D. SCHUMACHER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

WATER, COUNTY DEPARTMENT & PUBLIC WORKS
CITY OF WICHITA, KANSAS
DIRECTOR OF PUBLIC WORKS
CITY ENGINEER
LINE NO. 4
STA. 0+00.00 TO STA. 24+80.30

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDS
Drawn by TJC
Checked by MDS
Date Nov. 1970

Job No. 70-66
Sheet No. 5/6

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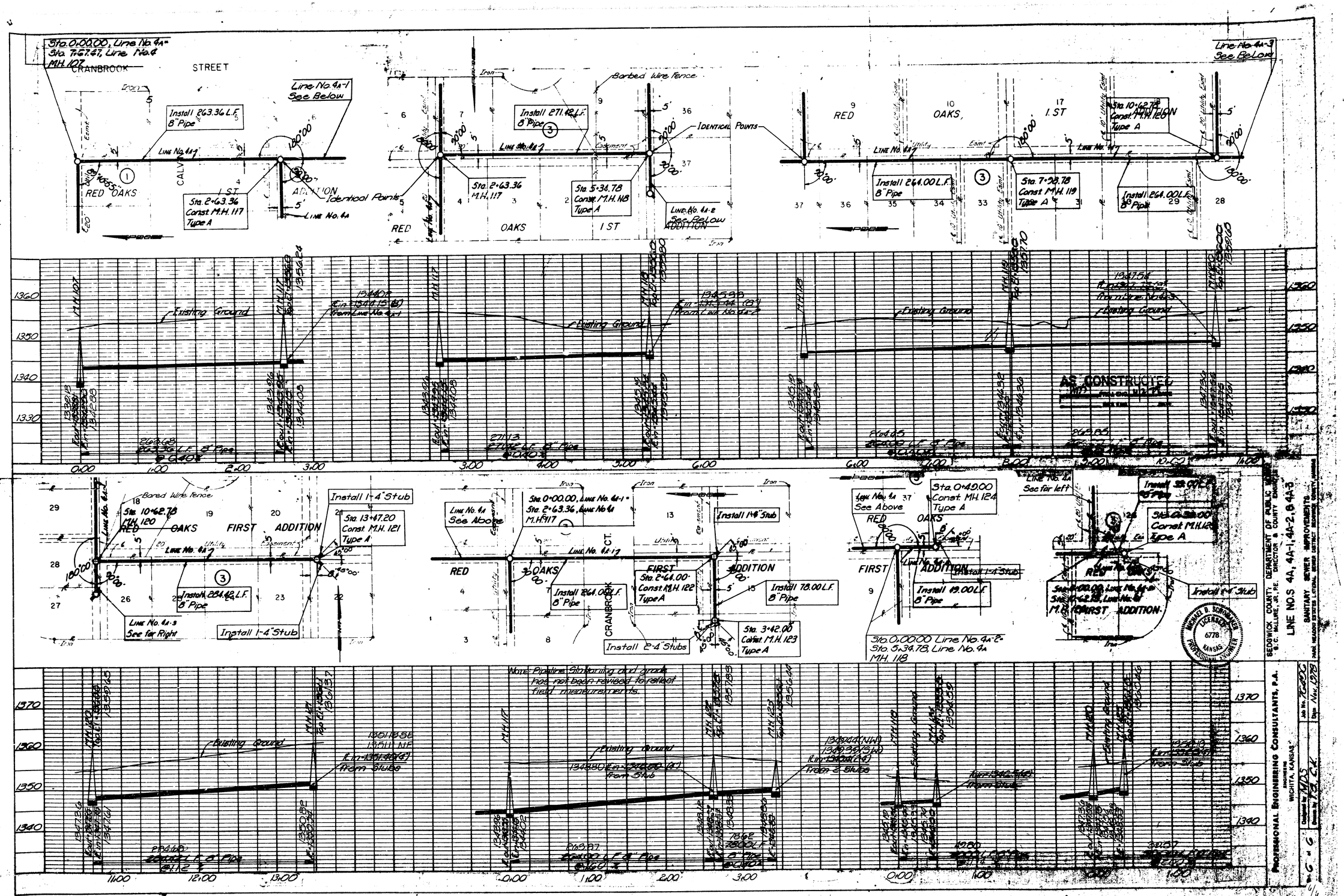

SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS
S.C. McLURE, JR., P.E. DIRECTOR & COUNTY ENGINEER

LINE NO.S 4A, 4A-1, 4A-2, & 4A-3

SANITARY SEWER IMPROVEMENTS
PARK HEADOW ESTATES LATERAL SEWER DISTRICT SEDGWICK COUNTY, KANSAS

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDS
Drawn by T.S. C.K.
Job No. 76496
Date Nov. 1978

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