LATERAL 210, SOUTHWEST INTERCEPTOR

PROJECT NO.

468·76·245·81446·000·000·001

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, CITY ENGINEER

MARCH, 1985

As Built
S.L.L
10-85

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL 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 OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

2. A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDED AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUNDS SHALL BE CONSTRUCTED WITH A SIX (6) FEET DIAMETER FLAT TOP WITH 4 TO 1 SIDE SLOPES DOWN TO THE ORIGINAL GROUND. THE ELEVATION OF THE FLAT TOP OF THE MOUND SHALL BE 0.4 FOOT BELOW THE TOP OF THE MANHOLE.

3. CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF CONSTRUCTION SCHEDULING AND LOCATION OF ANY UNDERGROUND LINES.

4. 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.

5. ALL STUBS AND PLUGGED PIPES SHALL BE LOCATED WITH GREEN PLASTIC TAPE IN THE SAME MANNER AS RISERS.

   COST OF EXCAVATION, HAULING AND DUMPING EXCESS EXCAVATION TO BE SUBSIDIARY TO PROJECT.

6. TREES TO BE REMOVED ARE MARKED ⊗. ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.

BENCHMARKS

B.M. #1 S. RIM OF EXISTING M.H. 10'± SOUTH OF M.H. 1-0
ELEV. = 93.15 (CITY DATUM)

B.M. #2 "□" CUT ON CENTERLINE OF E. HUB GUARD OF RCB. + 500' N. OF S.W. CORNER COTTONWOOD GROVE.
ELEV. = 94.18 (CITY DATUM)

B.M. #3 R.R. SPIKE IN E. FACE OF POWER POLE 40' S. AND E. OF W ¼ CORNER SECTION 13-28-1W.
ELEV. = 94.14 (CITY DATUM)



INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-4	LINE 1
5	LINE 2
6	LINE 3 & LINE 5
7	LINE 4
8	LINE 6
9	STANDARD SHALLOW MANHOLE DETAILS
10	COTTONWOOD FINAL PLAT

LEGEND

- BENEFIT DISTRICT
- EXIST. SAN. SEWER
- PROPOSED SAN. SEWER

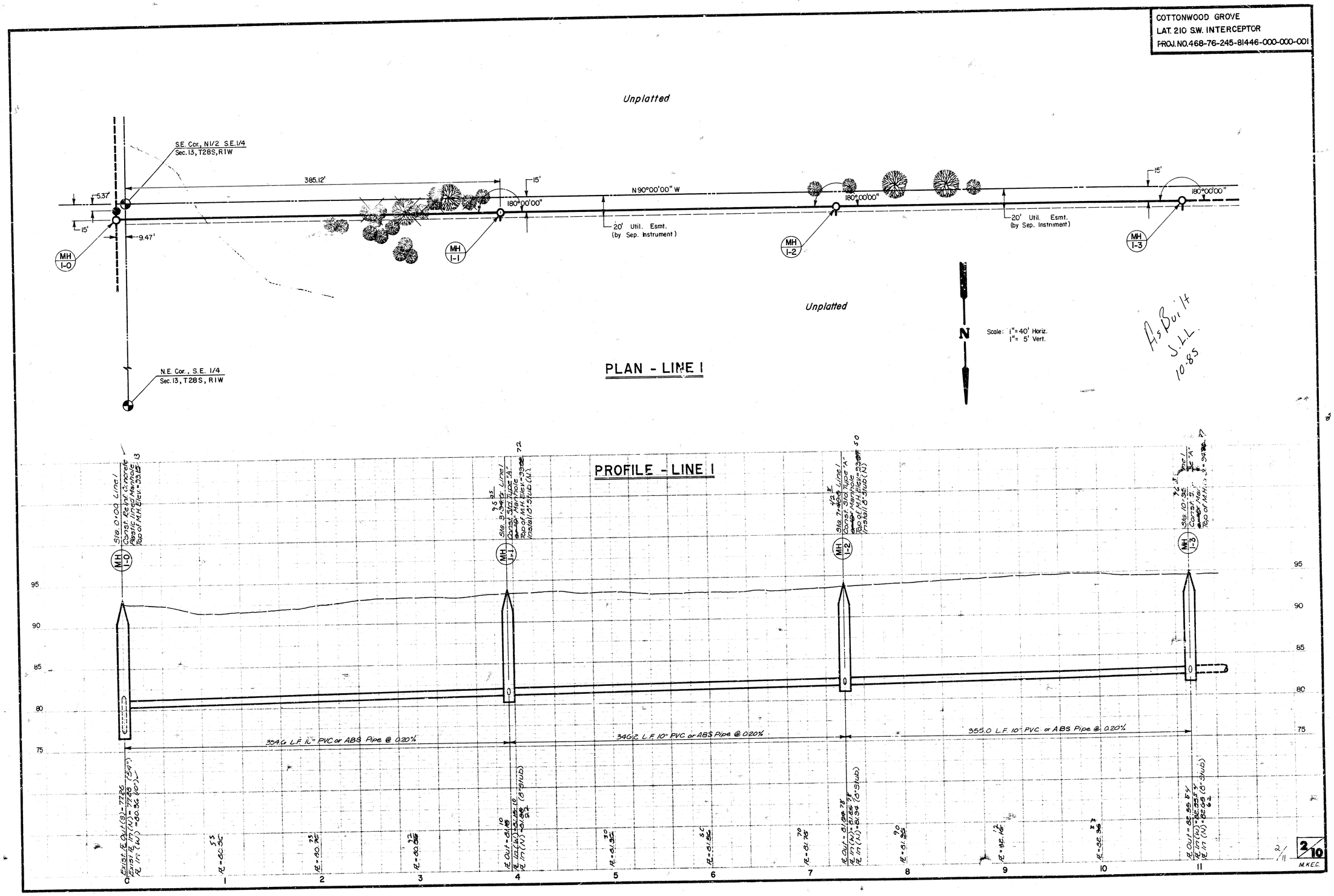
MICHAEL D. HEDING LICENSED 8388 KANSAS PROFESSIONAL ENGINEER

COTTONWOOD GROVE

SANITARY SEWER EXTENSION

1
10

COTTONWOOD GROVE
LAT. 210 S.W. INTERCEPTOR
PROJ. NO. 468-76-245-81446-000-000-001



As Built
J.L.L.
10-85

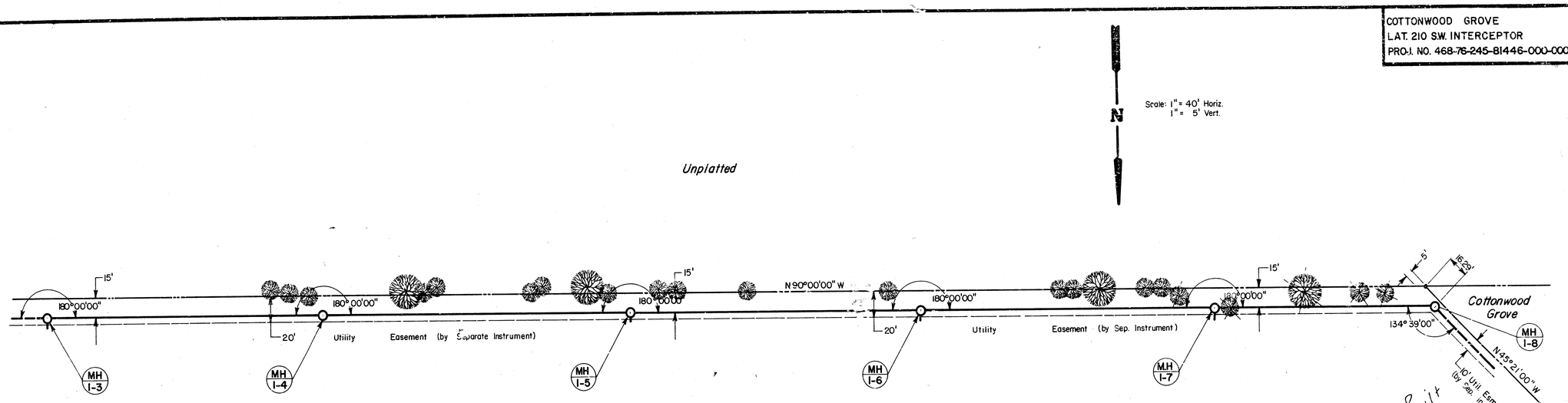
2/11

2/10

M.K.E.C.

COTTONWOOD GROVE
L.A.T. 210 S.W. INTERCEPTOR
PRO-I. NO. 468-76-245-81446-000-000-00

Scale: 1" = 40' Horiz.
1" = 5' Vert.



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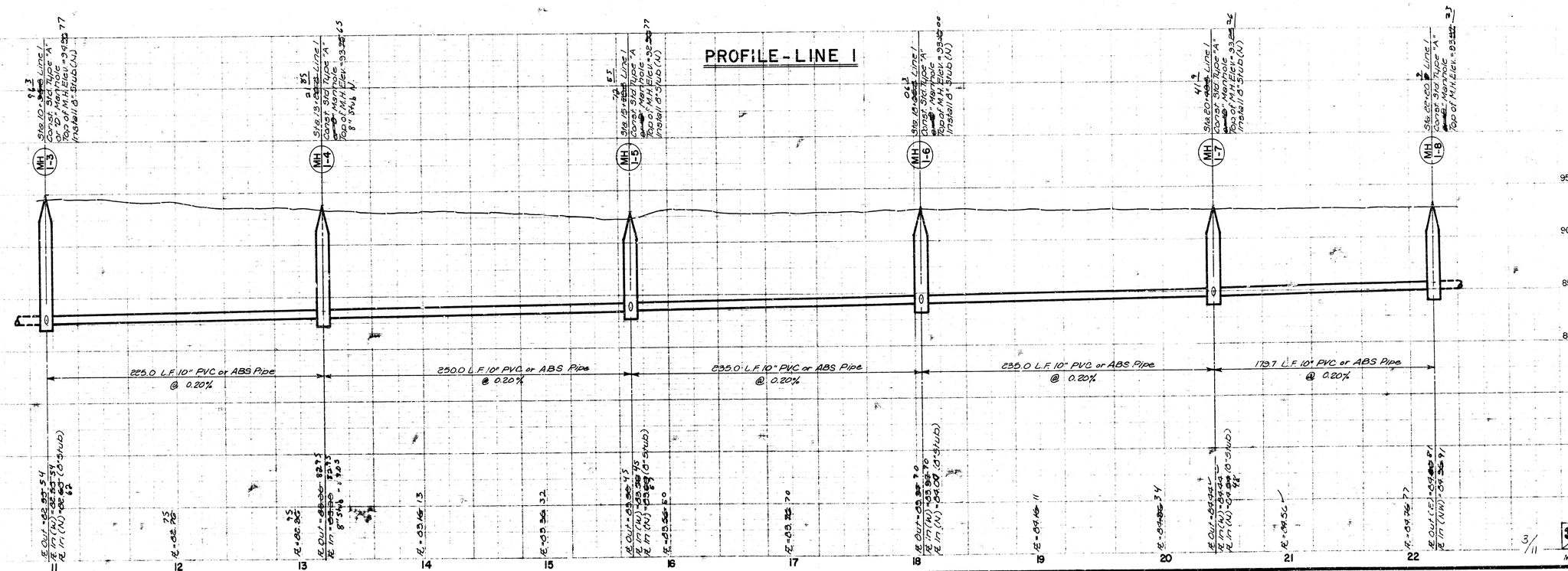
S.L.L.
10-85

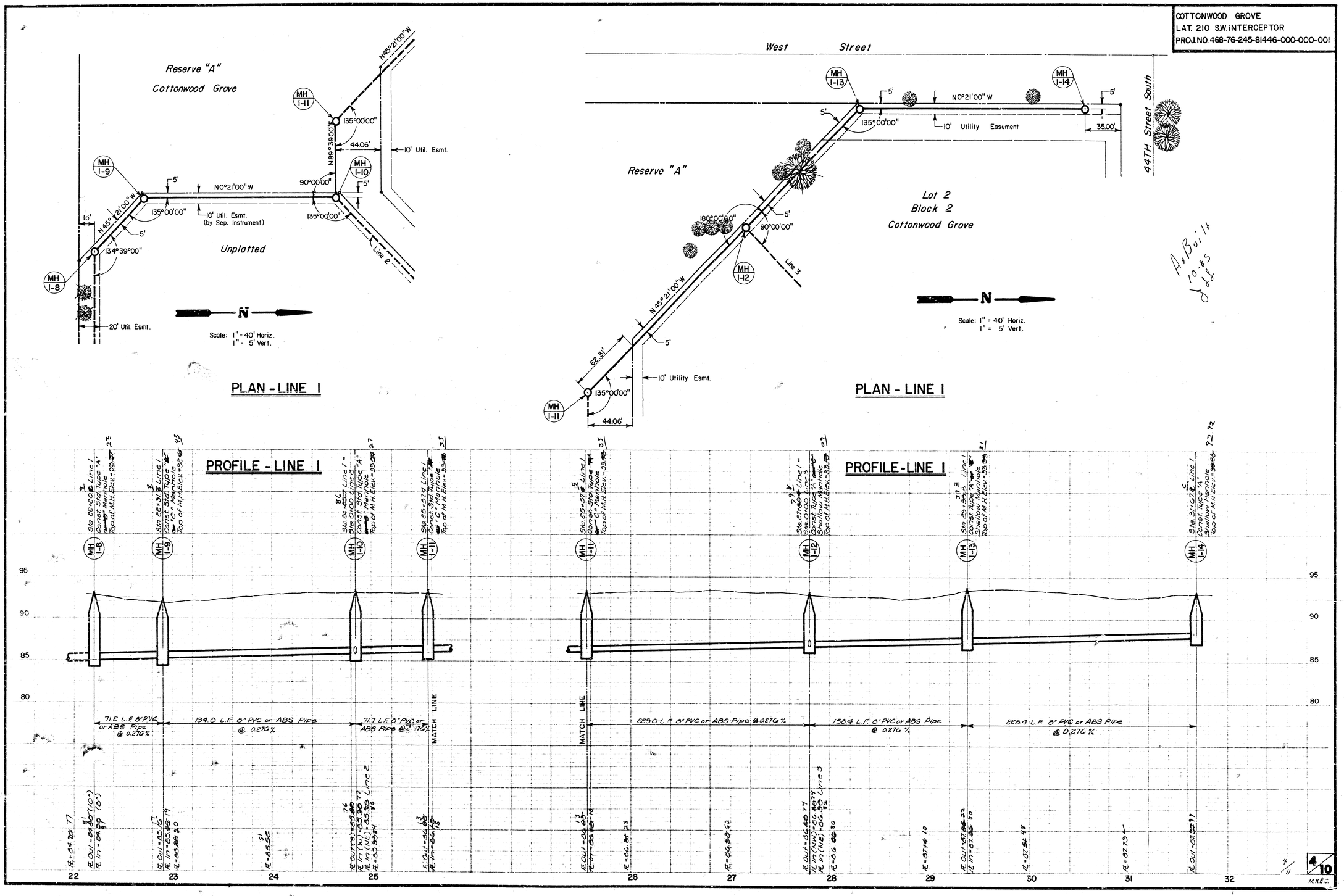
PLAN - LINE I

PROFILE - LINE I

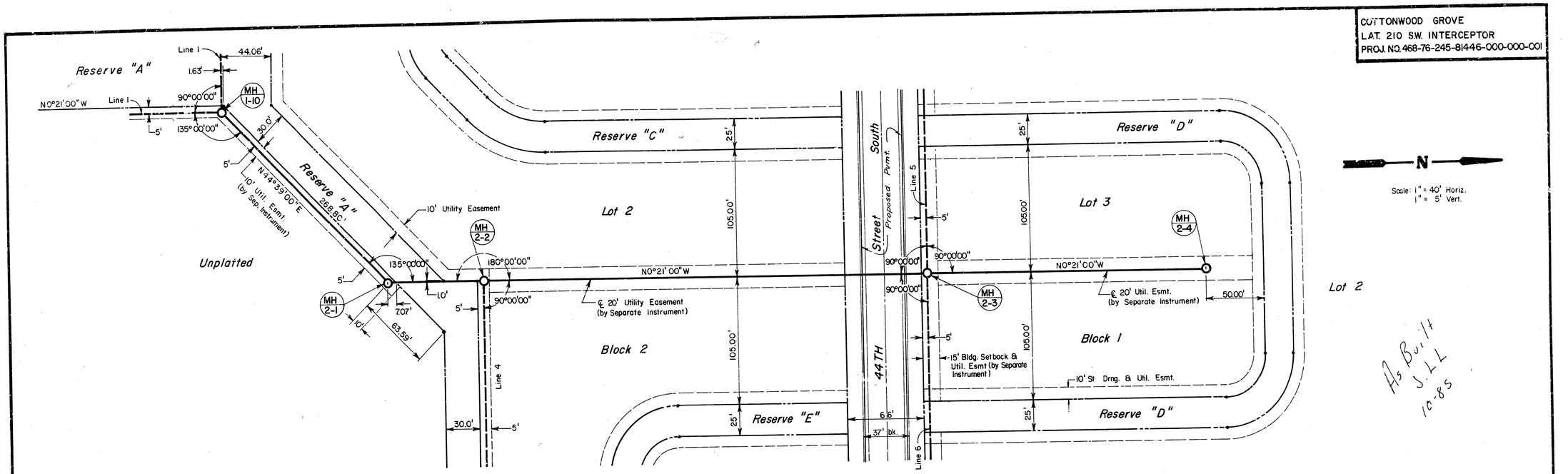


3/11

3/10
M.K.E.C.


COTTONWOOD GROVE
LAT. 210 S.W. INTERCEPTOR
PROJ. NO. 468-76-245-81446-000-000-001
Reserve "A"
Cottonwood Grove
Unplatted
N45°21'00"W
N89°39'00"E
N0°21'00"W
135°00'00"
134°39'00"
90°00'00"
44.06'
10' Util. Esmt.
10' Util. Esmt. (by Sep. Instrument)
20' Util. Esmt.
Line 2
Scale: 1" = 40' Horiz. 1" = 5' Vert.
PLAN - LINE 1
West Street
44TH Street South
Reserve "A"
Lot 2
Block 2
Cottonwood Grove
N0°21'00" W
135°00'00"
10' Utility Easement
35.00'
180°00'00"
90°00'00"
Line 3
N45°21'00"W
62.31'
10' Utility Esmt.
44.06'
Scale: 1" = 40' Horiz. 1" = 5' Vert.
PLAN - LINE 1
PROFILE - LINE 1
PROFILE - LINE 1
MATCH LINE
71.2 L.F. 8" PVC or ABS Pipe @ 0.276%
194.0 L.F. 8" PVC or ABS Pipe @ 0.276%
71.7 L.F. 8" PVC or ABS Pipe @ 0.276%
223.0 L.F. 8" PVC or ABS Pipe @ 0.276%
158.4 L.F. 8" PVC or ABS Pipe @ 0.276%
228.4 L.F. 8" PVC or ABS Pipe @ 0.276%
95
90
85
80
22
23
24
25
26
27
28
29
30
31
32
4/10
M.K.E.

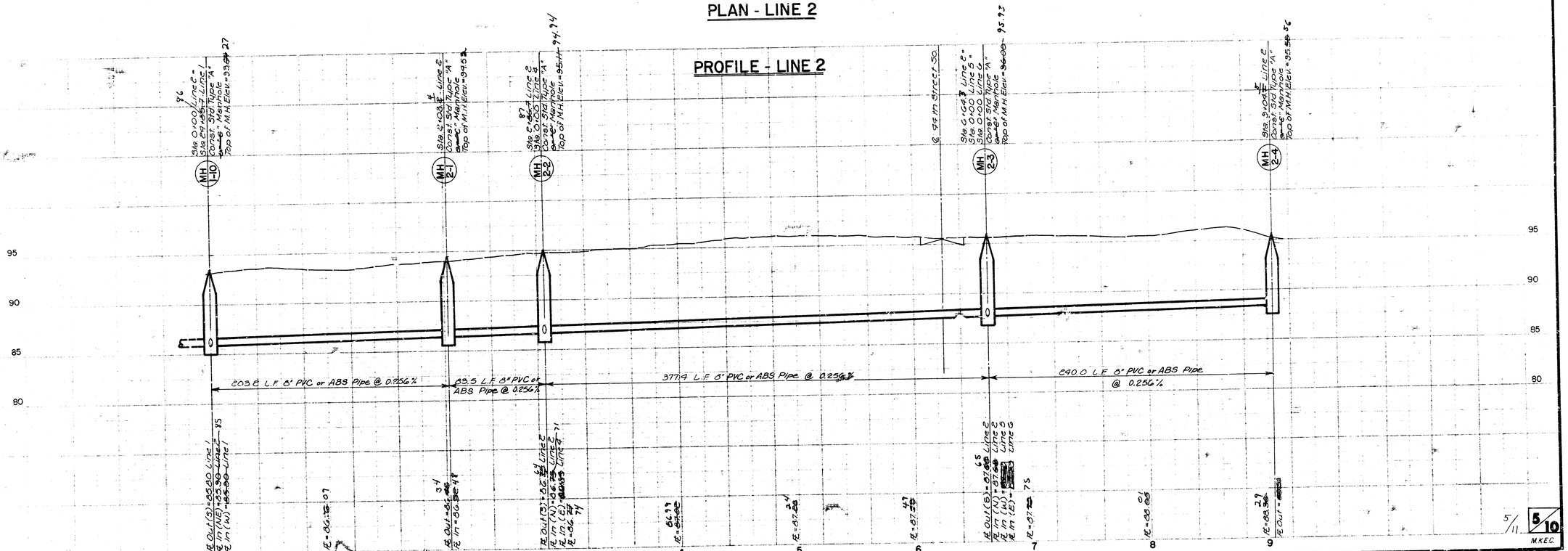
COTTONWOOD GROVE
LAT. 210 S.W. INTERCEPTOR
PROJ. NO. 468-76-245-81446-000-000-001



As Built
S.L.L.
10-85

PLAN - LINE 2

PROFILE - LINE 2



5/11

5/10

M.K.E.C.

COTTONWOOD GROVE
LAT 210 SW. INTERCEPTOR
PROJ. NO. 468-76-245-81446-000-000-001

N

Scale: 1" = 40' Horiz.
1" = 5' Vert.

Reserve "A"

Lot 2

5' N 45° 21' 00" W

MH 1-12

180° 00' 00"

90°

℄ 20' Util. Esmt. (by Sep. instrument)

N 44° 39' 00" E

Line 1

10' Util. Esmt.

10' Drng. & Util. Esmt.

Reserve "C"

25'

10' Drng. & Util. Esmt.

Lot 1

105.0'

48.66'

135° 00' 00"

℄ 20' Util. Esmt. (by Separate Instrument)

40.0'

70.19'

N 0° 21' 00" W

Block 2

MH 3-1

MH 3-2

South

Street

44TH

Block 2

105.0'

10' Drng. & Util. Esmt.

Reserve "C"

25'

Lot 1, Block 1

MH 5-1

5'

20' Util. Esmt.

MH 5-2

98.52'

15'

90°

N 0° 21' 00" W

465.01'

15'

15' Bldg Stbk. & Util. Esmt. (by Sep. instrument)

Lot 2

105.0'

10' Drng. & Util. Esmt.

Reserve "D"

25'

10' Drng. & Util. Esmt.

S 89° 39' 00" W

Lot 3

105.0'

5'

MH 2-3

90°

Line 2

Line 2

90°

90°

℄ 20' Util. Esmt. (by Separate Instrument)

Line 6

South

44TH

Street

Utility Easement

20'

25' Cities Service Oil Co. Esmt.

Unplatted

N

Scale: 1" = 40' Horiz.
1" = 5' vert.

As Built
J.L.L.
10-85

PLAN-LINE 3

PROFILE-LINE 3

Sta 0+00 Line 3 = Sta 1+35.64 Line 1
Const. Type "A" or "C" Shallow Manhole
Top of M.H. Elev. = 93.10

Sta 1+35.64 Line 1 = Sta 2+93.38 Line 3
Const. Type "A" or "C" Shallow Manhole
Top of M.H. Elev. = 93.26

Sta 2+93.38 Line 3 = Sta 4+92.64 Line 3
Const. Type "A" or "C" Shallow Manhole
Top of M.H. Elev. = 95.03

MH 1-12

MH 3-1

MH 3-2

135.2 L.F. 8" PVC or ABS Pipe @ 0.275%

137.4 L.F. 8" PVC or ABS Pipe @ 0.275%

IE Out (38)-86.80 Line 1
IE In (NE)-86.30 Line 3
IE In (NW)-86.68 Line 1

IE = 87.12

IE Out = 87.41
IE In (W) = 87.03 Line 3
IE In (E) = 87.03 Line 2

IE = 87.24

IE Out = 88.03

PLAN-LINE 5

PROFILE-LINE 5

Sta 0+00 Line 5 = Sta 2+59.03 Line 2
Const. Std. Type "A" Manhole
Top of M.H. Elev. = 96.00

Sta 2+59.03 Line 2 = Sta 5+55.0 Line 5
Const. Type "A" or "C" Shallow Manhole
Top of M.H. Elev. = 95.93

Sta 5+55.0 Line 5 = Sta 9+16.43 Line 5
Const. Type "A" or "C" Shallow Manhole
Top of M.H. Elev. = 95.36

MH 2-3

MH 5-1

MH 5-2

859.0 L.F. 8" PVC or ABS Pipe @ 0.222%

361.6 L.F. 8" PVC or ABS Pipe @ 0.222%

IE Out (3)-87.60 Line 2
IE In (W) 87.40 Line 3
IE In (E) 87.40 Line 2
IE In (E) 87.20 Line 2

IE = 87.64

IE = 88.00

IE Out = 88.33
IE In = 88.13

IE = 88.55

IE = 89.00

IE = 89.04

IE = 89.39

IE Out = 89.53

95
90
85
80

0 1 2 3 4 0 1 2 3 4 5 6

M.K.E.C.

COTTONWOOD GROVE
LAT. 210 S.W. INTERCEPTOR
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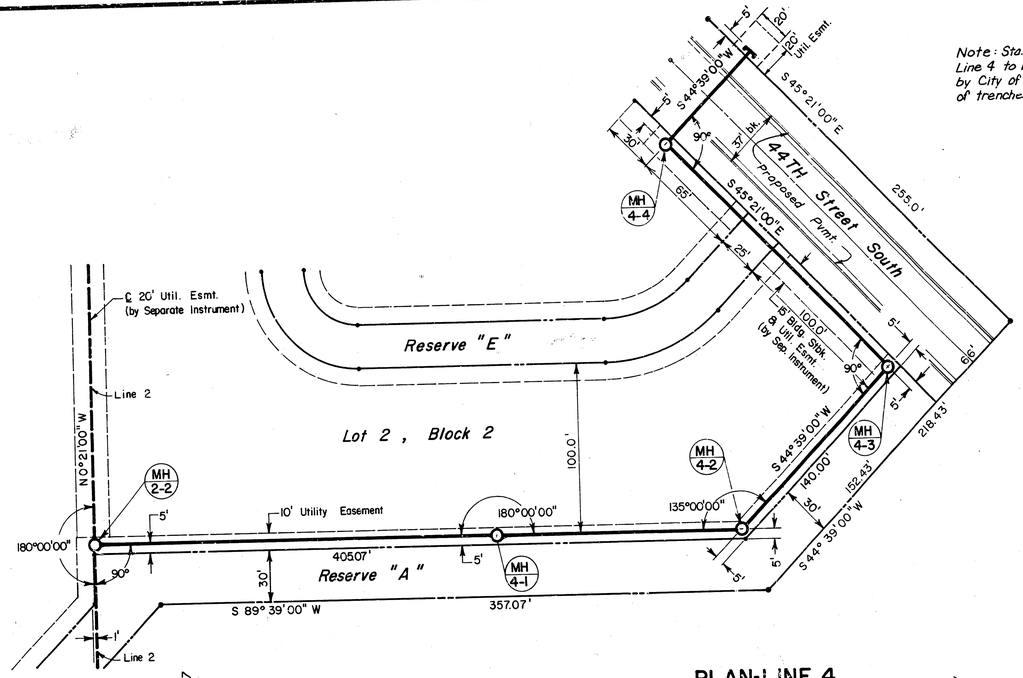
Note: Sta. 7+24.9 to Sta. 8+00.9 Line 4 to be tested and televised by City of Wichita before backfilling of trenches is completed.

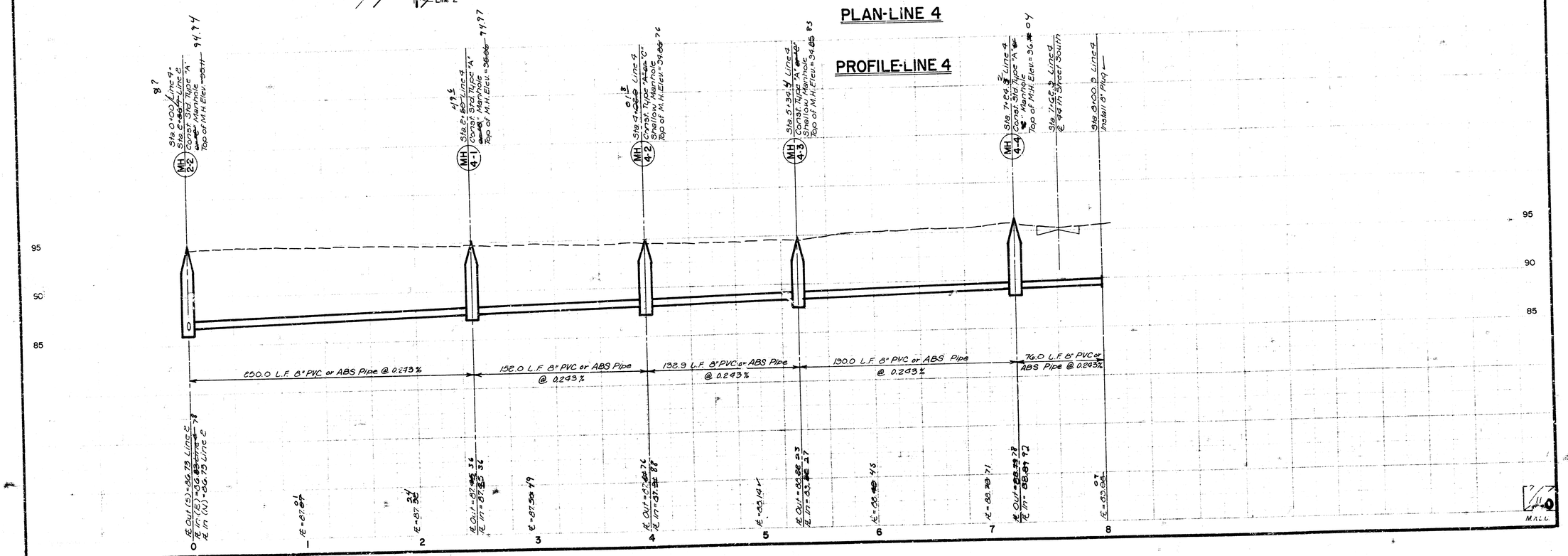


Scale: 1" = 40' Horiz.
1" = 5' Vert.

As Built
J. LL
10-85

PLAN-LINE 4

PROFILE-LINE 4



COTTONWOOD GROVE
LAT. 210 S.W. INTERCEPTOR
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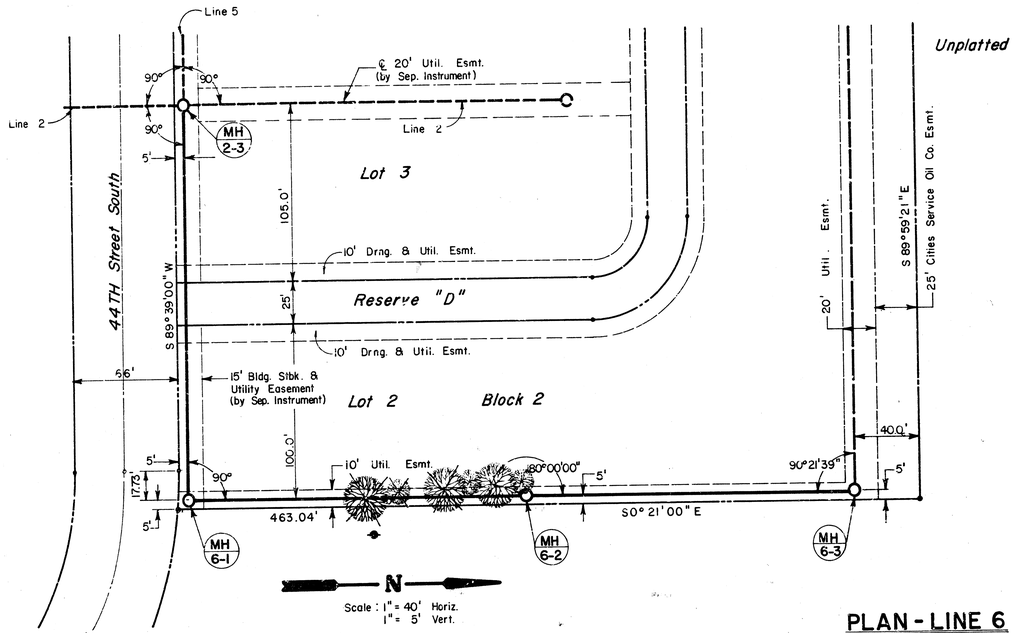
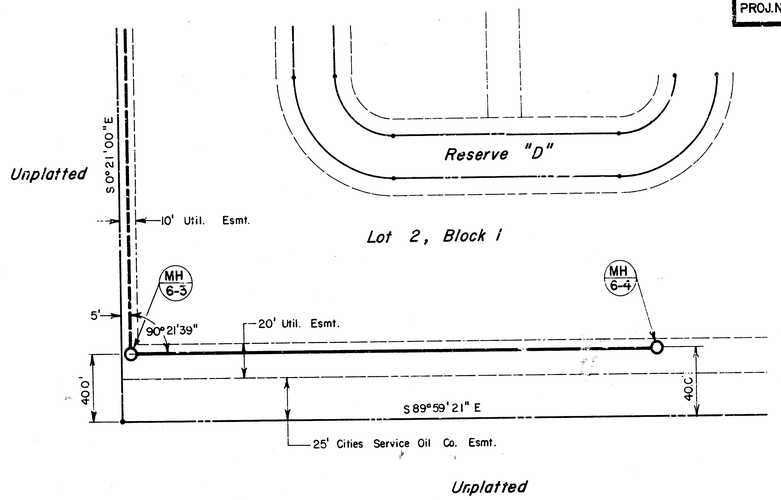
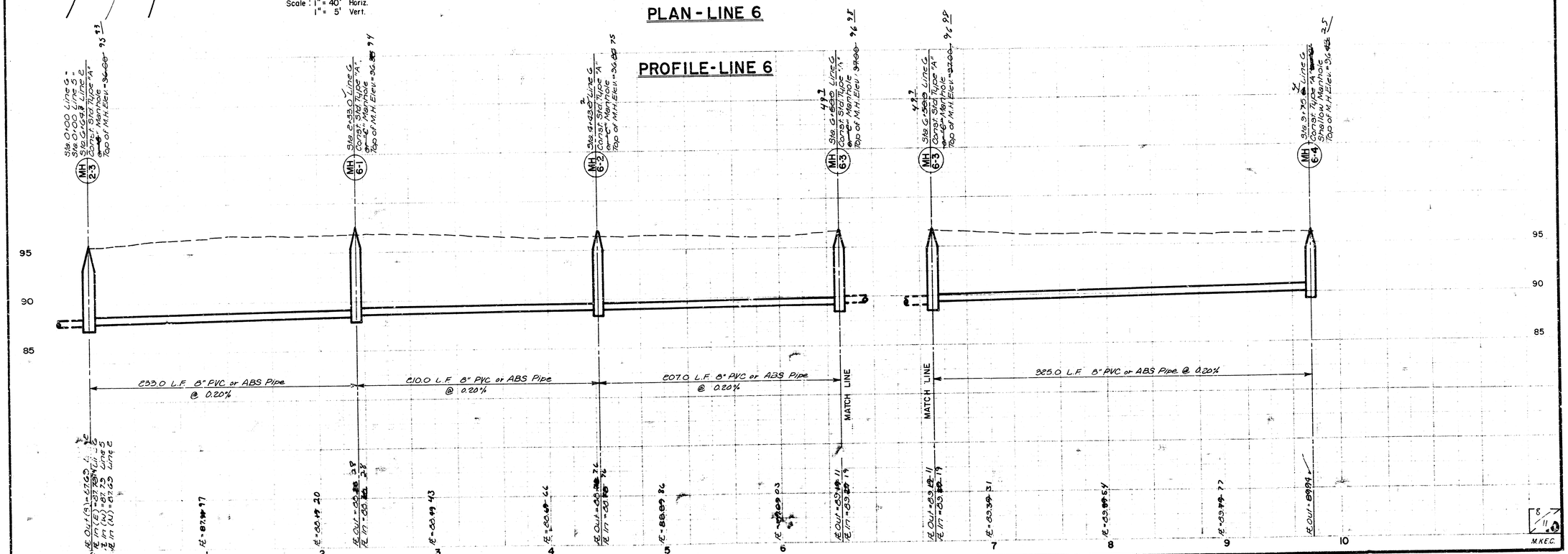




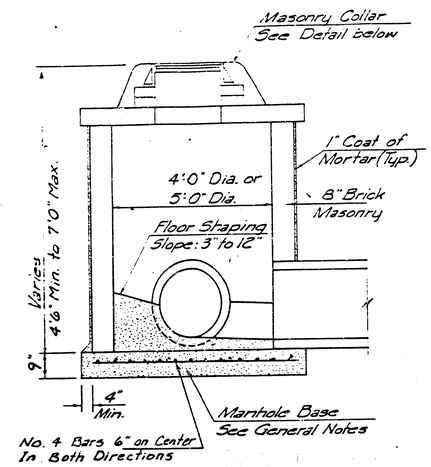
As Built
J.L.L.
10-85

PLAN - LINE 6

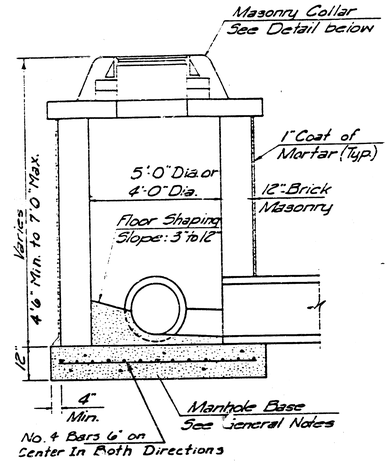
PROFILE - LINE 6



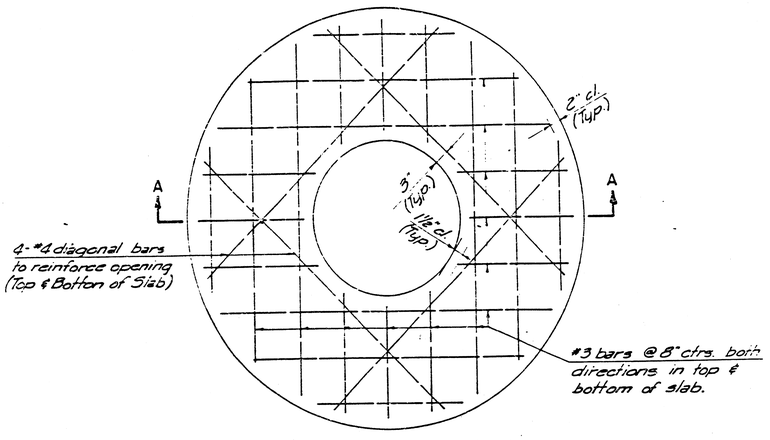
M.K.E.C.



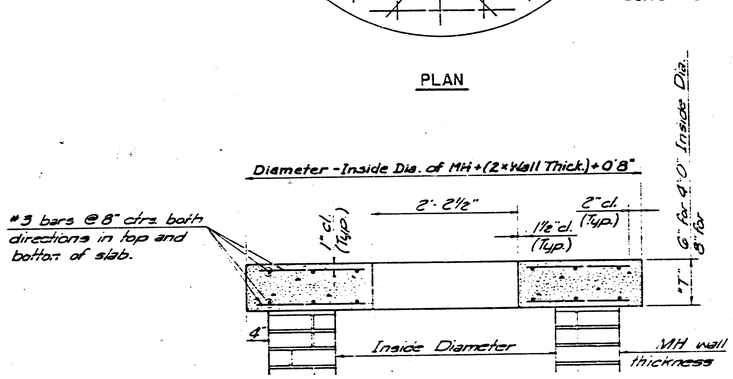
SHALLOW TYPE "A" MANHOLE



SHALLOW TYPE "B" MANHOLE



PLAN



SECTION A-A

FLAT CONCRETE SLAB DETAILS

GENERAL NOTES

1. 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 CEMENT 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. TYPE "A" SHALLOW MANHOLES CAN BE USED ON SEWERS WHEN THE MANHOLE IS NOT LOCATED WITHIN PUBLIC STREET PAVEMENT. 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.

2. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED 6" 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.

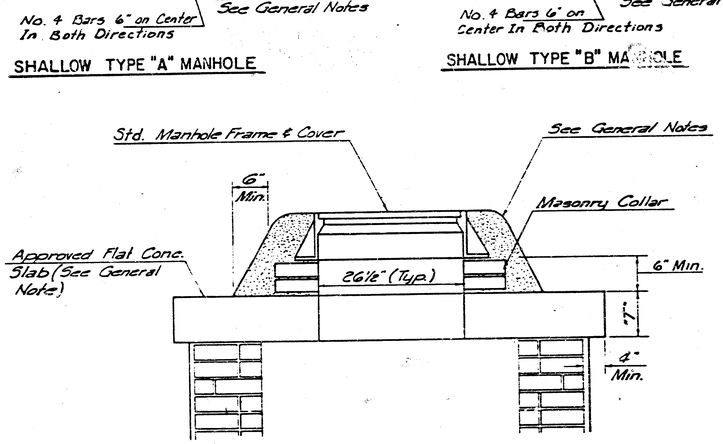
3. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS. 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.

4. 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.

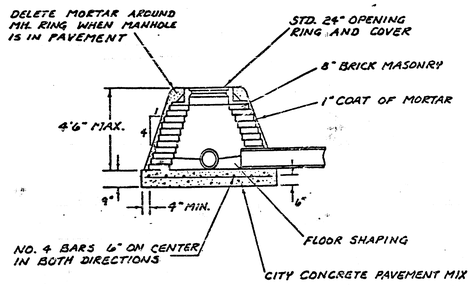
5. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWINGS.

6. THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.

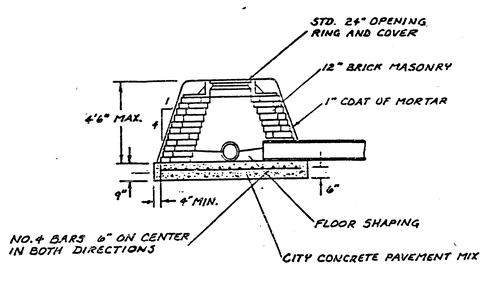
7. STANDARD SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH FOR THE TYPE AND DIAMETER INDICATED. STANDARD SPECIAL SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH FOR THE TYPE INDICATED. ALL STANDARD SHALLOW MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.



MASONRY COLLAR DETAIL



SPECIAL SHALLOW TYPE 'A' MANHOLE



SPECIAL SHALLOW TYPE 'B' MANHOLE

CITY OF WICHITA, KANSAS
STANDARD SHALLOW MANHOLES
TYPE 'A' AND TYPE 'B'

9 / 11 10

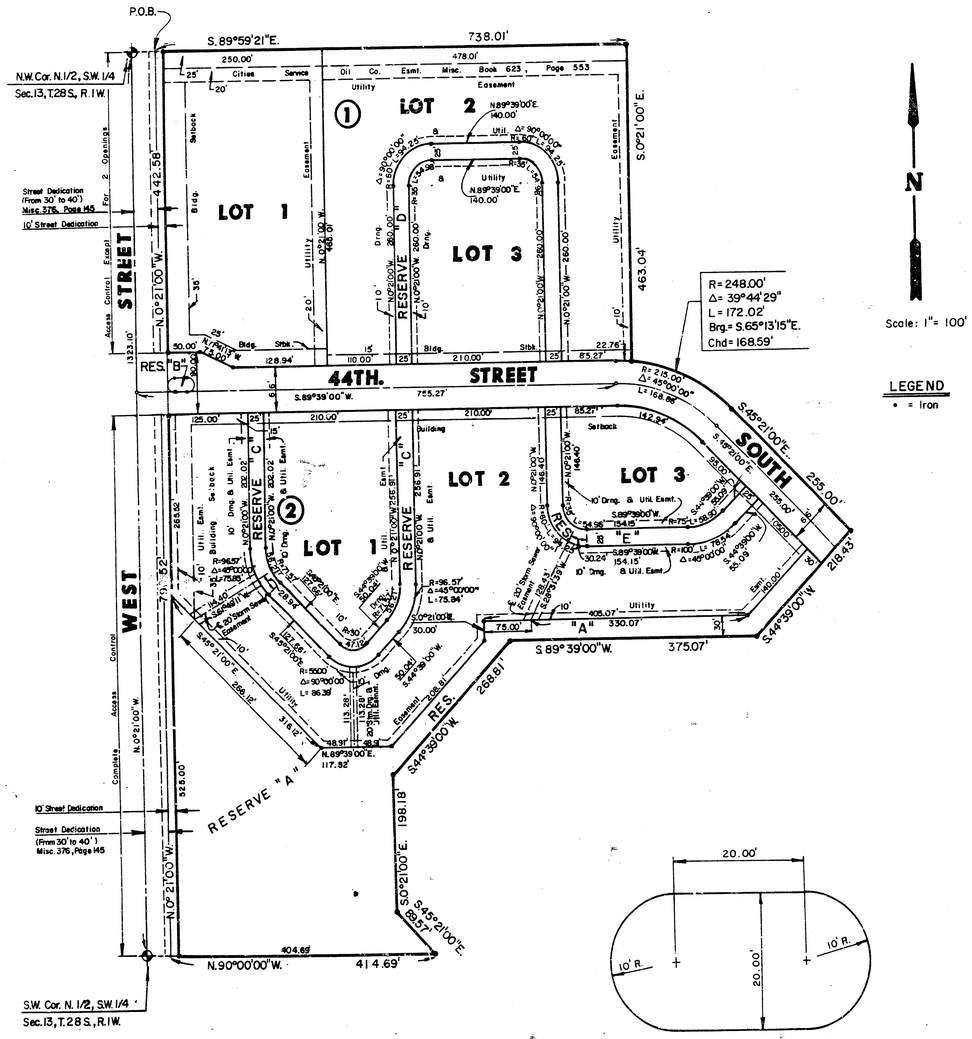
Designed by		Checked by	
Drawn by		Date	Job No.

HC-P T-W

FINAL PLAT OF

COTTONWOOD GROVE

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



I, Michael D. Harding, a Civil Engineer in Kansas, do hereby certify that I have been in responsible charge of surveying and platting of "COTTONWOOD GROVE", an addition to Wichita, Sedgwick County, Kansas, into Lots, Blocks, a Street and Reserves, the same being accurately set forth in the accompanying plat and described herein:

A tract of land in the north half of the southwest quarter of Section 13, Township 28 south, Range 1 west of the 6th Principal Meridian more particularly described as follows:

Beginning at a point on the north line of said southwest quarter, ~~40.00 feet~~ easterly bearing S 89° 59' 21" E from the northwest corner of the said southwest quarter, thence easterly along the north line of said southwest quarter S 89° 59' 21" E, 738.01 feet; thence S 00° 21' 00" E, 463.04 feet to a point on a curve to the right having a radius of 248.00 feet, a central angle of 39° 44' 29" and a long chord bearing S 65° 13' 15" E, 168.59 feet; thence along said curve 172.02 feet; thence S 45° 21' 00" E, 255.00 feet; thence S 44° 39' 00" W, 218.43 feet; thence S 89° 39' 00" W, 375.07 feet; thence S.44°39'00"W., 258.81 feet; thence S 00°21'00"E., 198.18 feet; thence S45°21'00"E., 88.57 feet; to a point on the south line of said north half; thence N90°00'00"W, 414.69 feet to a point on the east line of West Street; thence north parallel and 40.00 feet east of the west line of said southwest quarter bearing N00°21'00"W, 1323.10 feet to the point of beginning; containing 20.47 acres, more or less.

I hereby certify that the details of this plat are correct to the best of my knowledge and belief this 11TH day of February, 1985.

Michael D. Harding
Michael D. Harding, P.E.
Mid-Kansas Engineering Consultants, P.A.
3500 N. Rock Road, Bldg. 800
Wichita, KS 67226

MICHAEL D. HARDING LICENSED 9399 KANSAS PROFESSIONAL ENGINEER

Know all men by these presents that we the undersigned property owners of the land as above set forth in the Civil Engineers Certificate, have caused the same to be surveyed and platted into Lots, Blocks, a Street and Reserves, the same to be known as "COTTONWOOD GROVE" an addition to Wichita, Sedgwick County, Kansas. Easements for the construction and maintenance of public utilities as indicated on the accompanying plat are hereby granted. Reserve "A" is platted for constructoin and maintenance of public utilities, drainage, open space, and recreation. Reserve "B" is platted for landscaping, utilities, irrigation, and a median. Reserves "C", "D", and "E" are platted for utilities, drainage, and for access. Reserves are to be owned and maintained by the Owner's Association. All abutters rights of access over and across the east line of West Street to or from Blocks 1 and 2, are hereby granted to the City of Wichita. Except Lot 1, Block 1, shall have access to West Street at 2 locations, as indicated on the accompanying plat. The location of the two openings for Lot 1, Block 1 shall be determined by the Engineer of the City of Wichita.

Amortibanc Investment Company, Inc.

By: Alexander L. Dean, President

STATE OF KANSAS
SS:
COUNTY OF SEDGWICK

Be it remembered that on this 19th day of February, 1985, before me, a Notary Public in and for said State and County, came Amortibanc Investment Company, Inc. by Alexander L. Dean, President, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

Janet A. Robinson, Notary Public

My Appointment Expires: February 22, 1987

JANET A. ROBINSON NOTARY PUBLIC STATE OF KANSAS MY APPT. EXPIRES 2-22-87

The Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas has received and approved this plat of "COTTONWOOD GROVE".

Dated this 14th day of JUNE, 1984.

Wichita-Sedgwick County Metropolitan Area Planning Commission

James C. Wilson, Chairman

Robert A. Lakin, Secretary

This plat approved and all dedications shown hereon, if any, accepted by the City Commission of the City of Wichita, Kansas, this 19TH day of MARCH, 1985.

Robert G. Knight, Mayor

Donald C. Gisick, City Clerk

738765

Entered on transfer record this 1st day of April 1985.

Don Wright, County Clerk

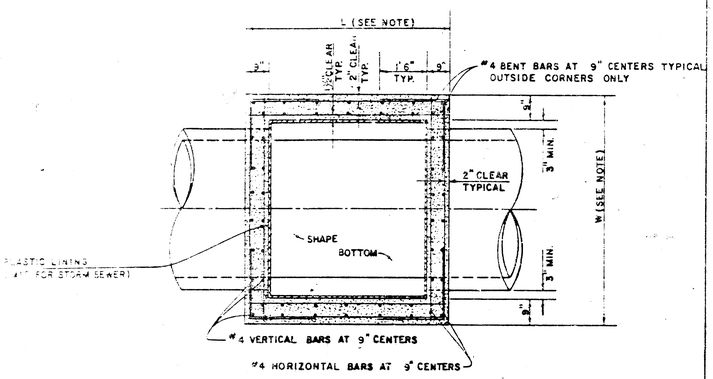
STATE OF KANSAS
SS:
COUNTY OF SEDGWICK

This is to certify that this instrument was filed for record in the Register of Deeds Office at 11:00 AM on the 1st day of April, 1985.

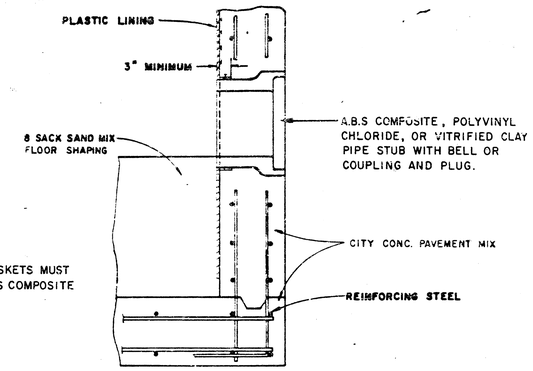
Pat Kettler, Register of Deeds

Ed Resa, Deputy

20.00

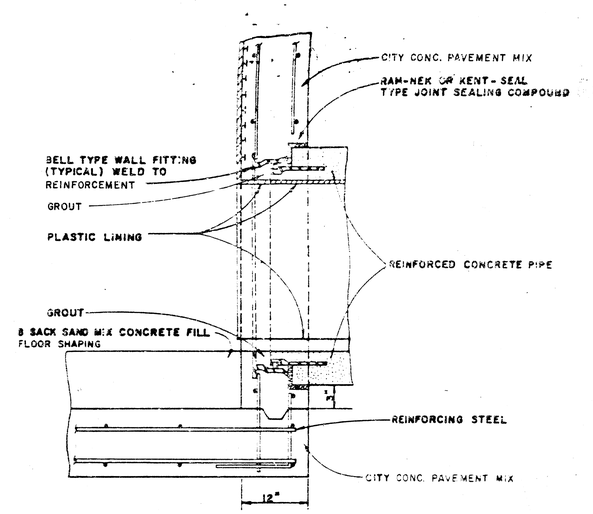


TOP VIEW

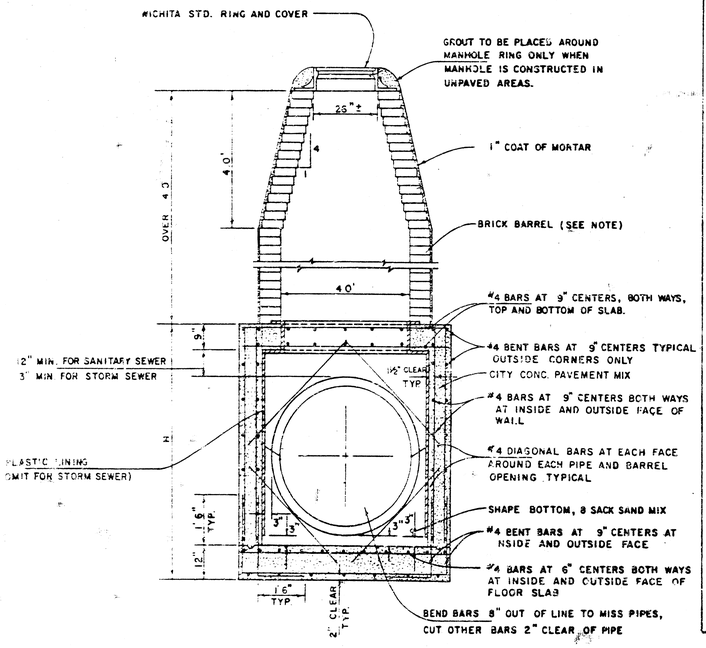


NOTE: WATERSTOP GASKETS MUST BE USED WITH A.B.S COMPOSITE OR P.V.C. PIPE.

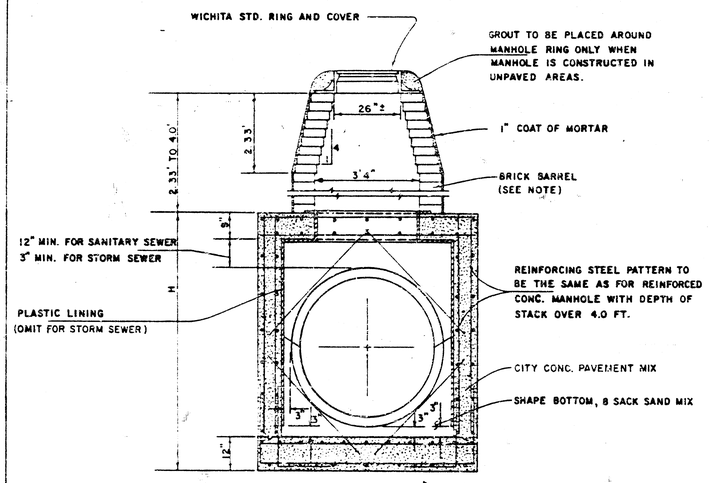
PIPE STUB DETAIL
SANITARY SEWER ONLY



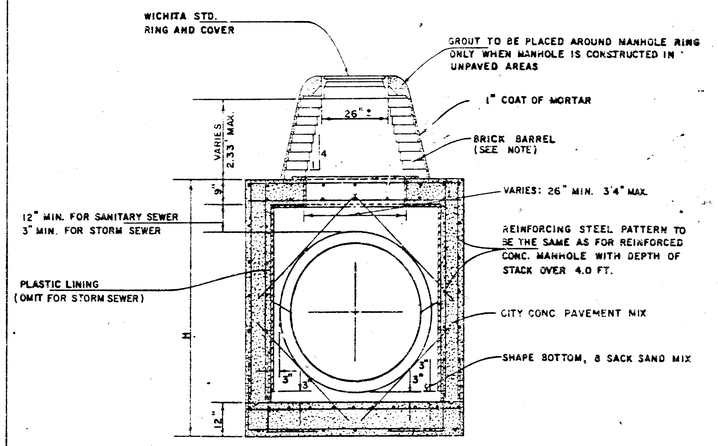
R.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: OVER 4.0'
SCALE 1" = 2'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 2.33' TO 4.0'
SCALE 1" = 2'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 0' TO 2.33'
SCALE 1" = 2'

NOTE :
BRICK BARRELS LESS THEN 16' DEEP SHALL HAVE 8" WALLS EXCEPT WHEN LOCATED WITHIN PUBLIC STREET OR ALLEY PAVEMENT THEN THE WALL SHALL BE 12". BRICK BARRELS MORE THEN 16' DEEP SHALL HAVE 12" WALLS. THE "L" AND "W" DIMENSIONS SHALL BE A MINIMUM OF 5'6" FOR BRICK BARRELS WITH 8" WALLS AND 6'2" FOR BRICK BARRELS WITH 12" WALLS WHEN THE BRICK BARRELS ARE OVER 4 FT. IN HEIGHT.

REVISED 1-7-85

STANDARD DETAILS
REINFORCED CONCRETE MANHOLES

CITY OF WICHITA

14 8 5 3

FEBRUARY 1984