

**SANITARY SEWER
LAT. 35, MAIN 22 W.I.S.
WILDERNESS SECOND ADDITION
PROJECT NO.
468-76-245-81418-000-000-001
CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, CITY ENGINEER
MARCH, 1985**

GENERAL NOTES

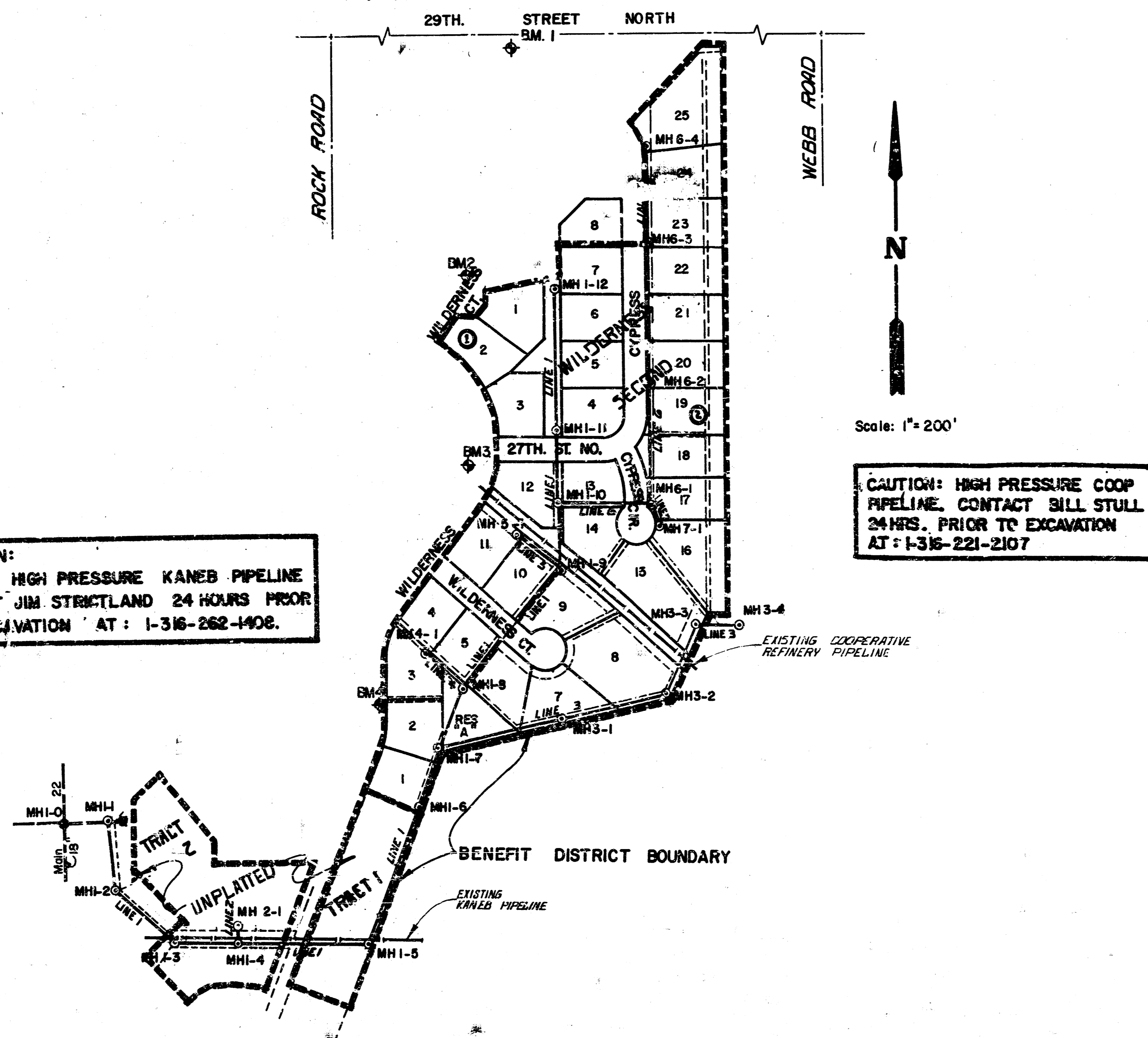
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY MARKS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY MARKS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH MARKS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.
2. A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDING AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUNDS SHALL BE CONSTRUCTED WITH A SIX (6) FOOT 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. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.
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 RECORDED 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.
6. TREES TO BE REMOVED ARE MARKED WITH 'X'. ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.
7. RISER PIPE SHALL BE INSTALLED TO SERVE INDIVIDUAL LOTS OR TRACTS IN CONJUNCTION WITH NEW SANITARY SEWER CONSTRUCTION, UNLESS OTHERWISE ORDERED BY THE ENGINEER, BECAUSE OF GROUND WATER, UNSTABLE SOIL OR UNUSUALLY DEEP CONSTRUCTION. RISER LOCATIONS SHALL BE AS APPROVED BY THE PROPERTY OWNER WITH THE CONCURRENCE OF THE ENGINEER. INSTALLATION OF RISERS ON SEWERS BECAUSE OF UNUSUAL DEPTH WILL BE REQUIRED WHEN THE SEWER IS DEEPER THAN TWELVE FEET (12'). THE CONTRACTOR WILL BE REQUIRED TO FILE WRITTEN DOCUMENTATION WITH THE ENGINEER IN A FORM APPROVED BY THE ENGINEER INDICATING THE LOCATIONS WHERE RISERS ARE TO BE INSTALLED AS REQUESTED BY THE PROPERTY OWNER OR HIS AUTHORIZED REPRESENTATIVE. RISER PIPE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AS SHOWN ON THE STANDARD RISER DETAIL SHEET.
8. THE COST OF EXCAVATION, HAULING AND DUMPING EXCESS EXCAVATION SHALL BE CUSIDIARY TO THE PROJECT.
9. CONSTRUCTION TO BEGIN WITH LINE #1 AT MANHOLE 1-7 STATION 14 + 66.1 AND LINE #6 SO AS TO CLEAR THE WAY FOR WATER, STORM AND PAVEMENT AS SOON AS POSSIBLE.

BENCH MARKS

- BM 1: "C" CUT ON S.T.C. OF 29TH ST. NORTH AT THE NORTHWEST CORNER OF LOT 4, BLOCK 1, WILDERNESS. ELEV. = 219.49
- BM 2: "C" CUT AT SOUTHWEST CORNER LOT 7, BLOCK 2, WILDERNESS. ELEV. = 221.55
- BM 3: "C" CUT ON S.T.C. WEST OF CORNER; NORTHWEST CORNER LOT 12, BLOCK 2, WILDERNESS 2ND. ELEV. = 218.35
- BM 4: "C" CUT ON S.T.C. AT NORTHWEST CORNER LOT 2, BLOCK 2, WILDERNESS 2ND. ELEV. = 214.77

Pavement removal and/or replacement will be measured and paid for on the lineal foot basis as measured along the centerline of the sewer regardless of width, pavement type and/or pavement thickness. Minimum limits of such pavement removal and replacement shall be one foot beyond the limits of the excavation made for the sewer or the structure. Removal and replacement of existing pavement shall conform to the applicable sections of the City of Wichita Standard Specifications.

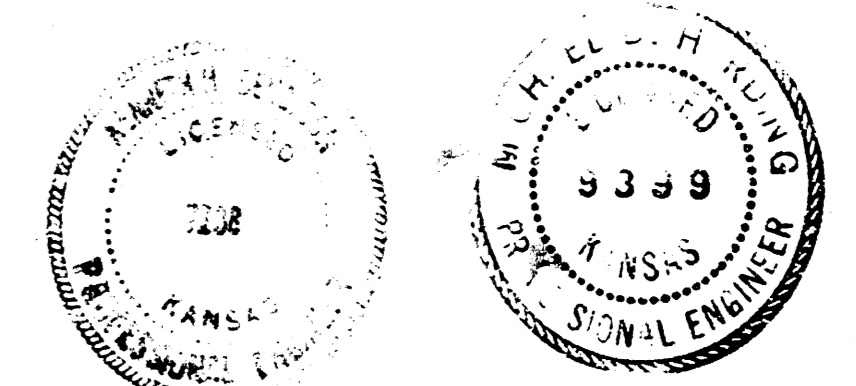
CAUTION:
HIGH PRESSURE KANAB PIPELINE
CONTACT JIM STRICTLAND 24 HOURS PRIOR
TO EXCAVATION AT: 1-316-262-1408.



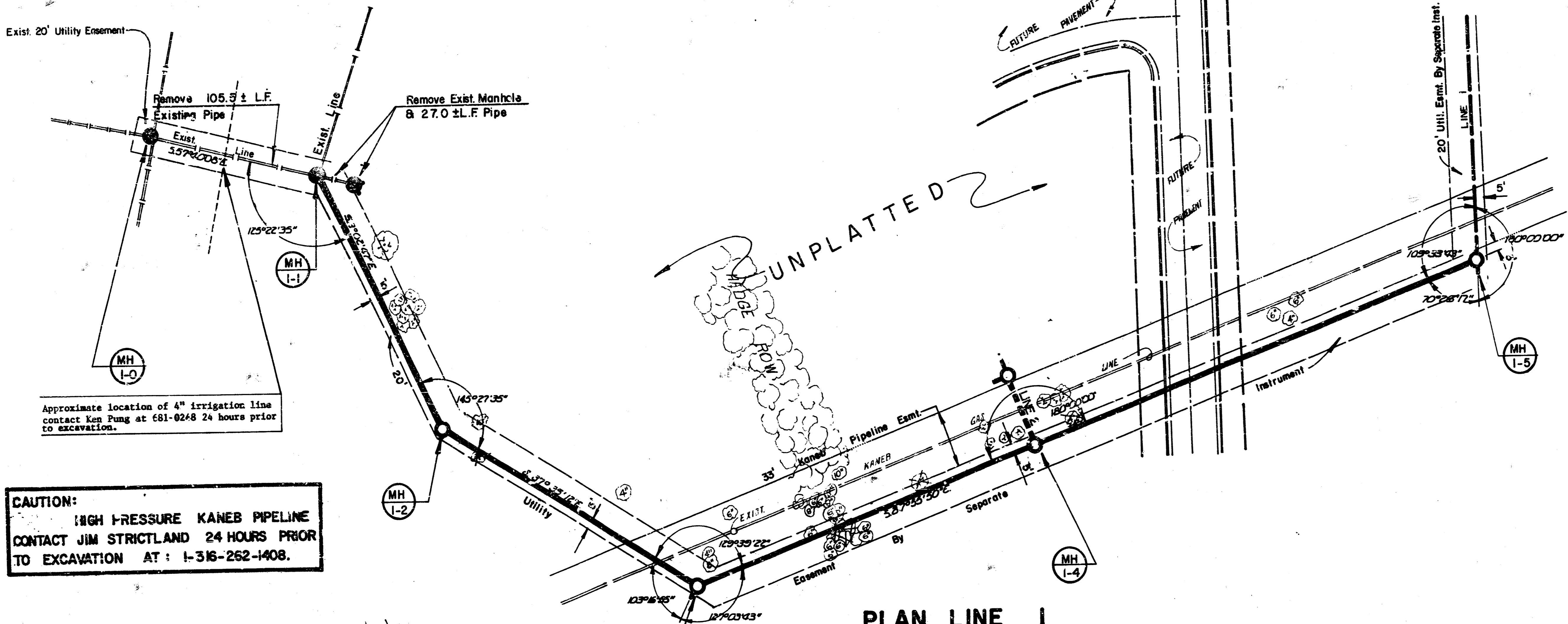
INDEX TO DRAWINGS

SHEET NO.	DISCUSSION
1	TITLE SHEET
2-3	LINE 1
4	LINE 1 & 2
5	LINE 3
6	LINE 4, 5, & 6
7	LINE 6 & 7
8	MANHOLE DETAILS
9	FINAL PLAT

*As Built
J.L.L.
10-85*

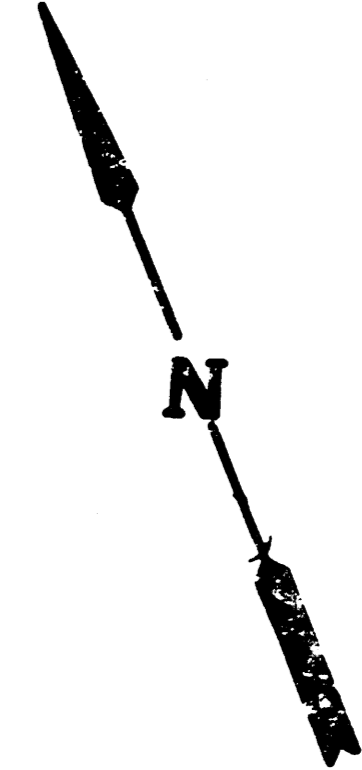


WILDERNESS SECOND SANITARY SEWER PLANS	Design: AMS
	Drawn by: DLM
	Checked by: RNS, MGA, AMS
	Date: MARCH, 1985
	Job no.:
MID-KANSAS ENGINEERING CONSULTANTS PA 240 NORTH ROCK ROAD SUITE 130 WICHITA, KANSAS 67206	Sheet 1 of 9 682-6561

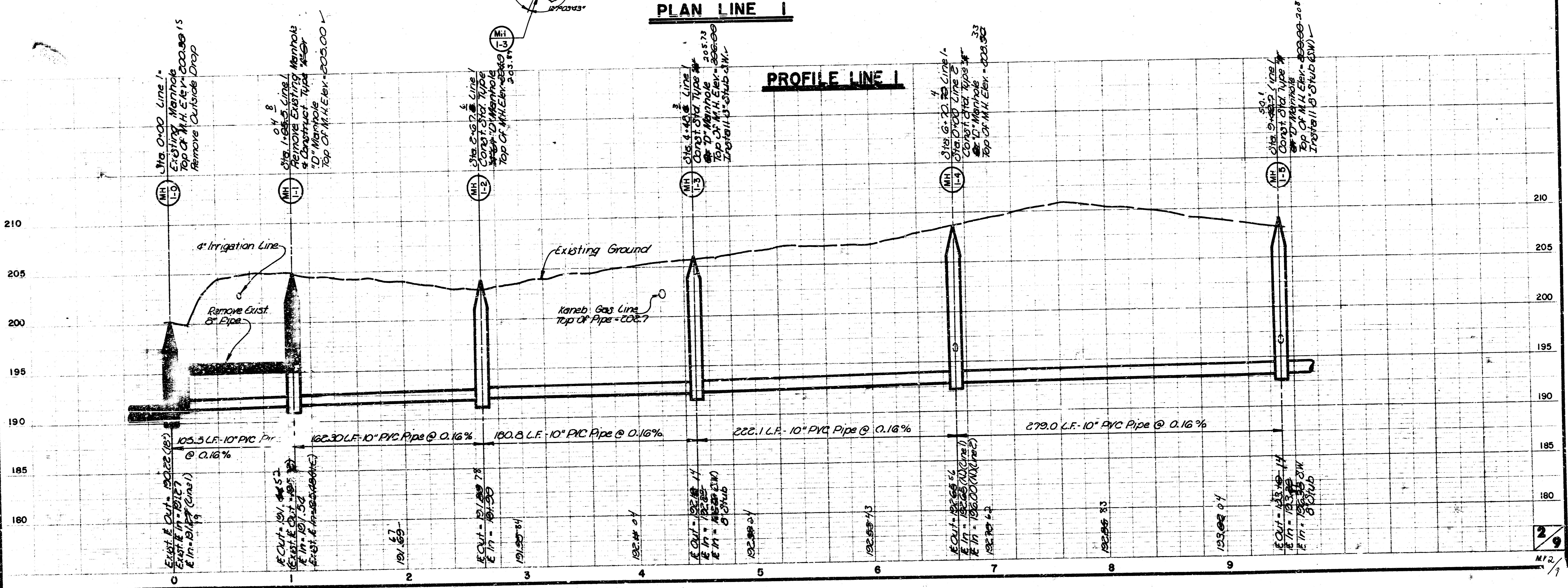


CAUTION:
 HIGH PRESSURE KANEB PIPELINE
 CONTACT JIM STRICTLAND 24 HOURS PRIOR
 TO EXCAVATION AT: 1-316-262-1408.

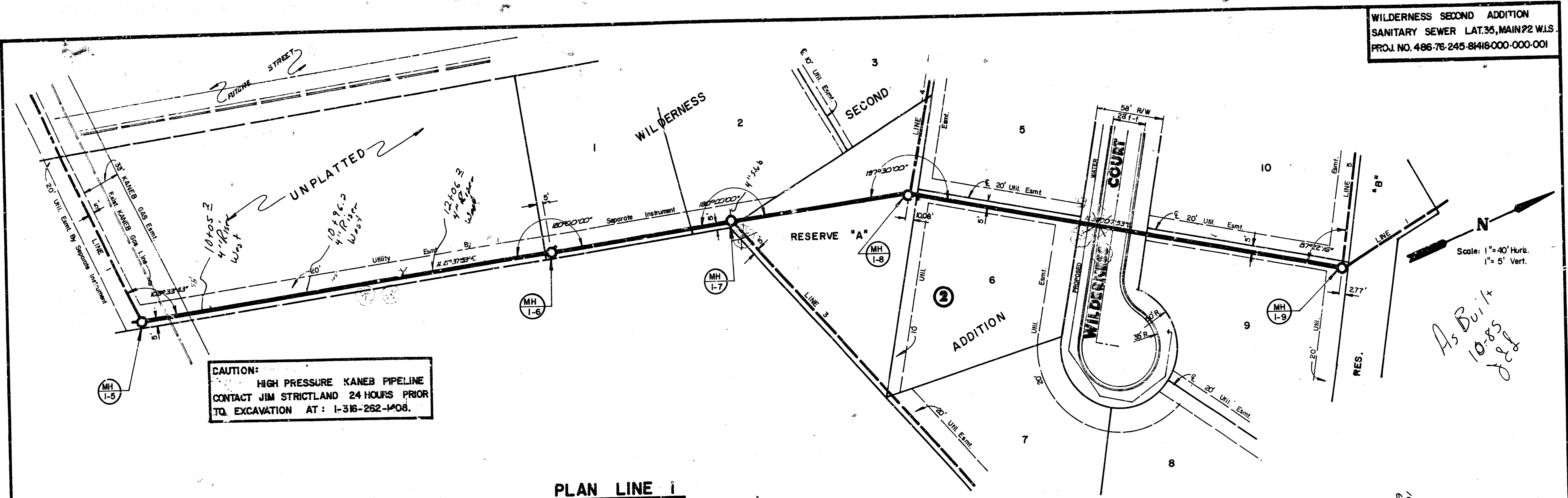
*As Built
 10-85
 Jdf*



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



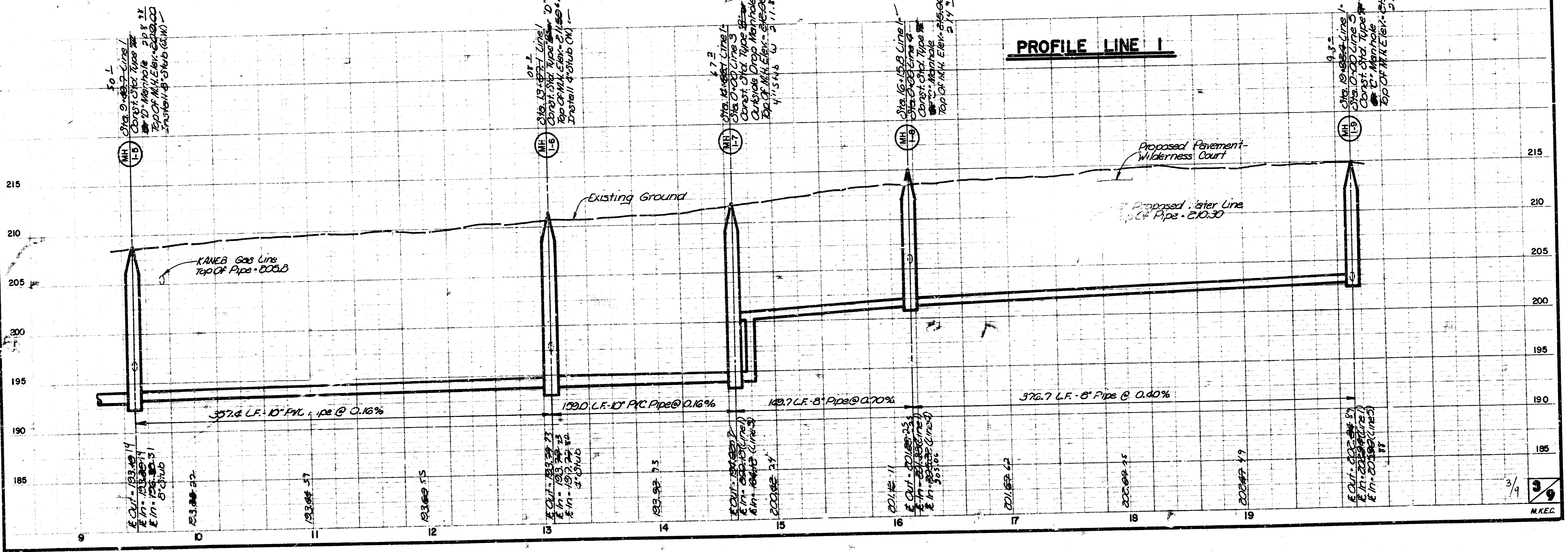
WILDERNESS SECOND ADDITION
 SANITARY SEWER LAT.35, MAIN 22 W.L.S.
 PROJ. NO. 486-76-245-8416-000-001



CAUTION:
 HIGH PRESSURE KANEB PIPELINE
 CONTACT JIM STRICTLAND 24 HOURS PRIOR
 TO EXCAVATION AT: 1-316-262-1408.

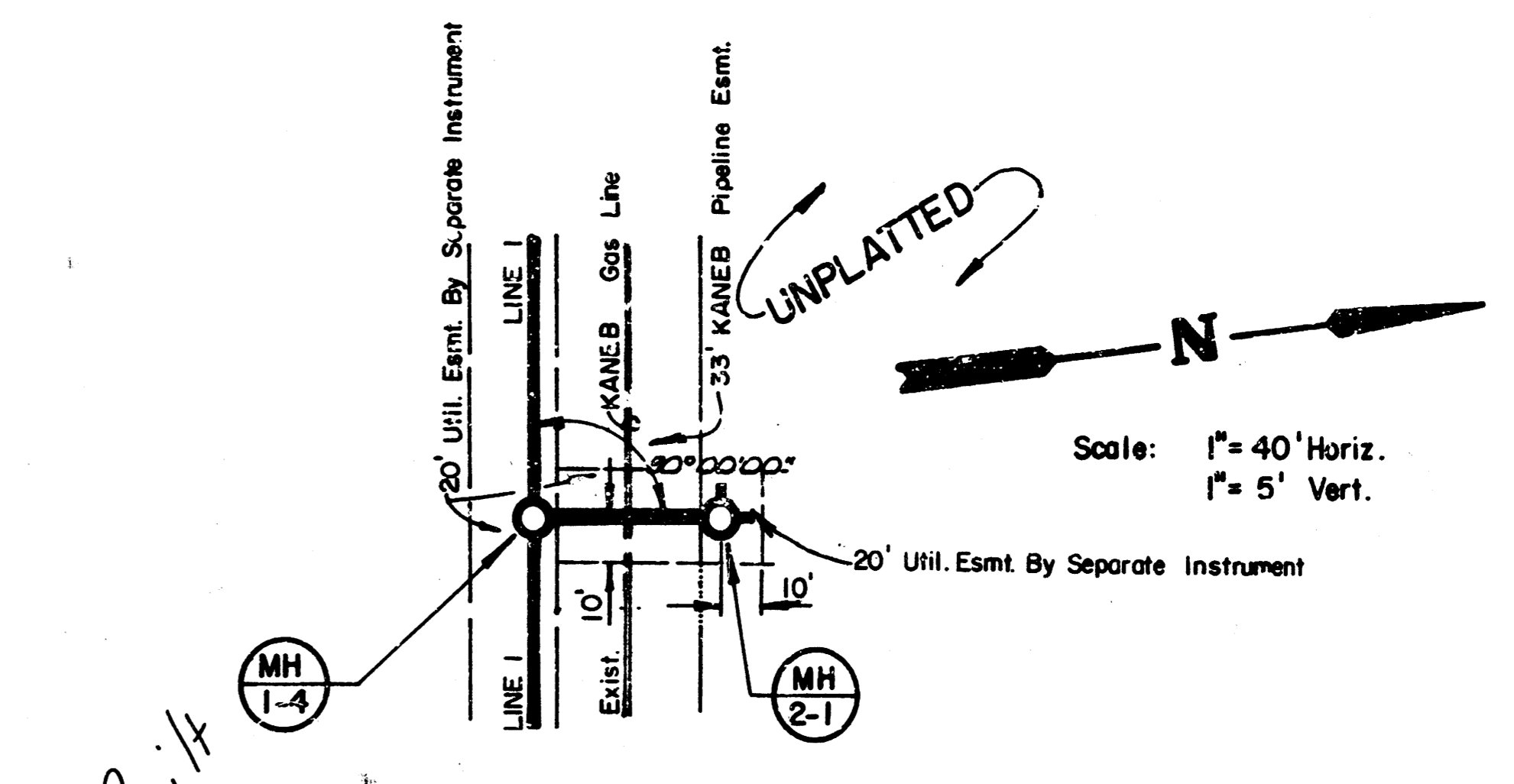
PLAN LINE 1

PROFILE LINE 1



WILDERNESS SECOND ADDITION
 SANITARY SEWER LAT. 35, MAIN 22, W.I.S.
 PROJ. NO. 463-76-245-8/418-000-000-001

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



CAUTION:
 HIGH PRESSURE KANEB PIPELINE
 CONTACT JIM STRICTLAND 24 HOURS PRIOR
 TO EXCAVATION AT: 1-316-262-1408.

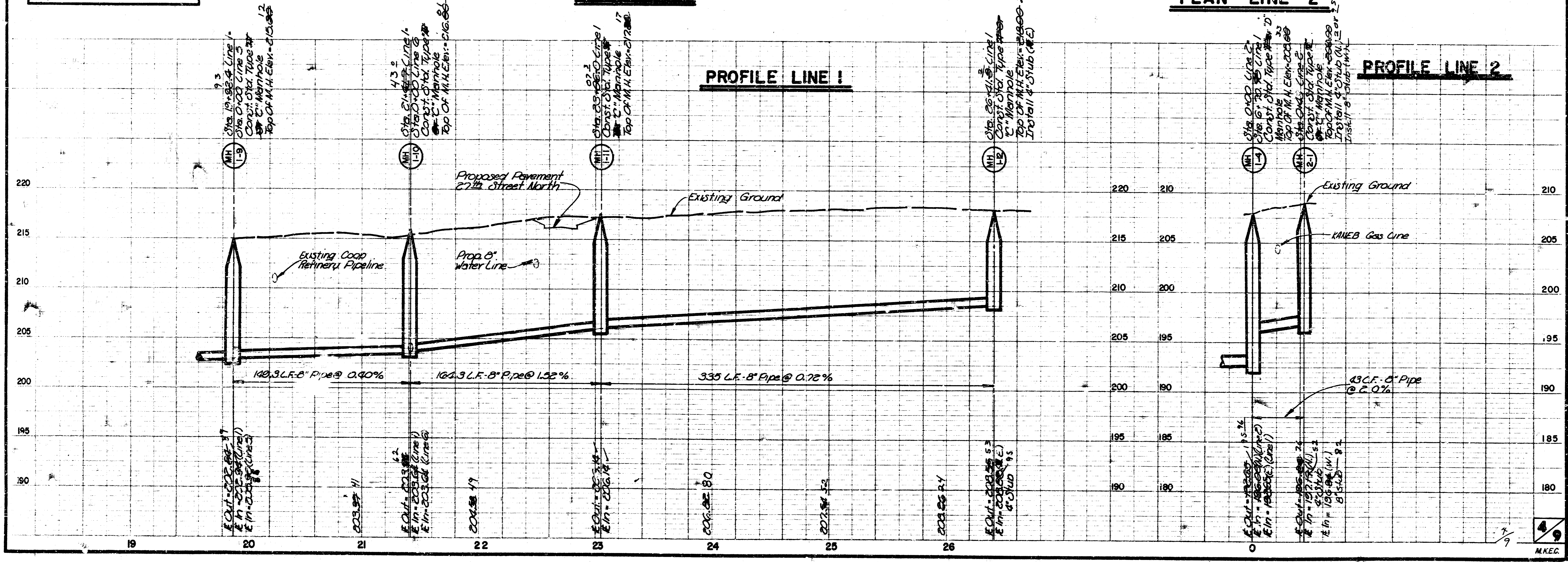
CAUTION: HIGH PRESSURE COOP.
 PIPELINE. CONTACT BILL STULL
 24 HRS. PRIOR TO EXCAVATION
 AT: 1-316-221-2107

PLAN LINE 1

PLAN LINE 2

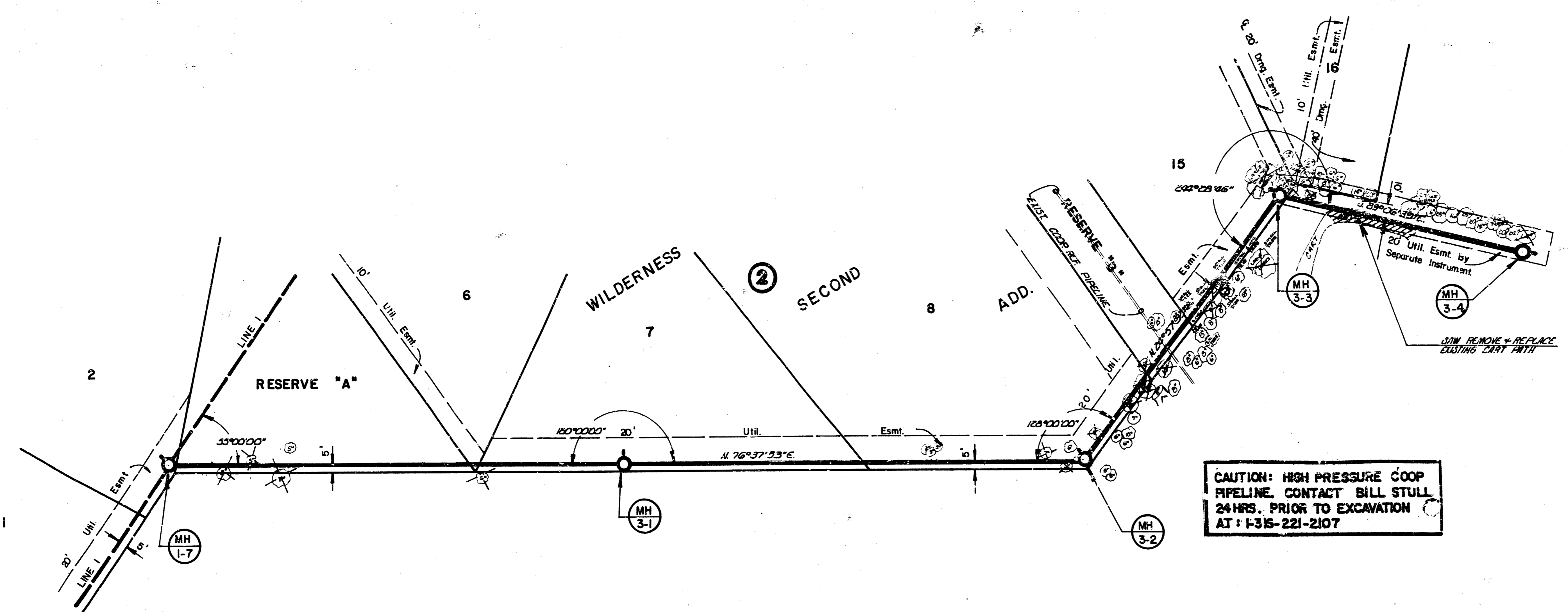
PROFILE LINE 1

PROFILE LINE 2



*As Bilt
 10-85
 J.S.*

WILDERNESS SECOND ADDITION
 SANITARY SEWER LAT. 35, MAIN 22 W.L.S.
 PROJ. NO. 468-76-245-81418-000-000-001

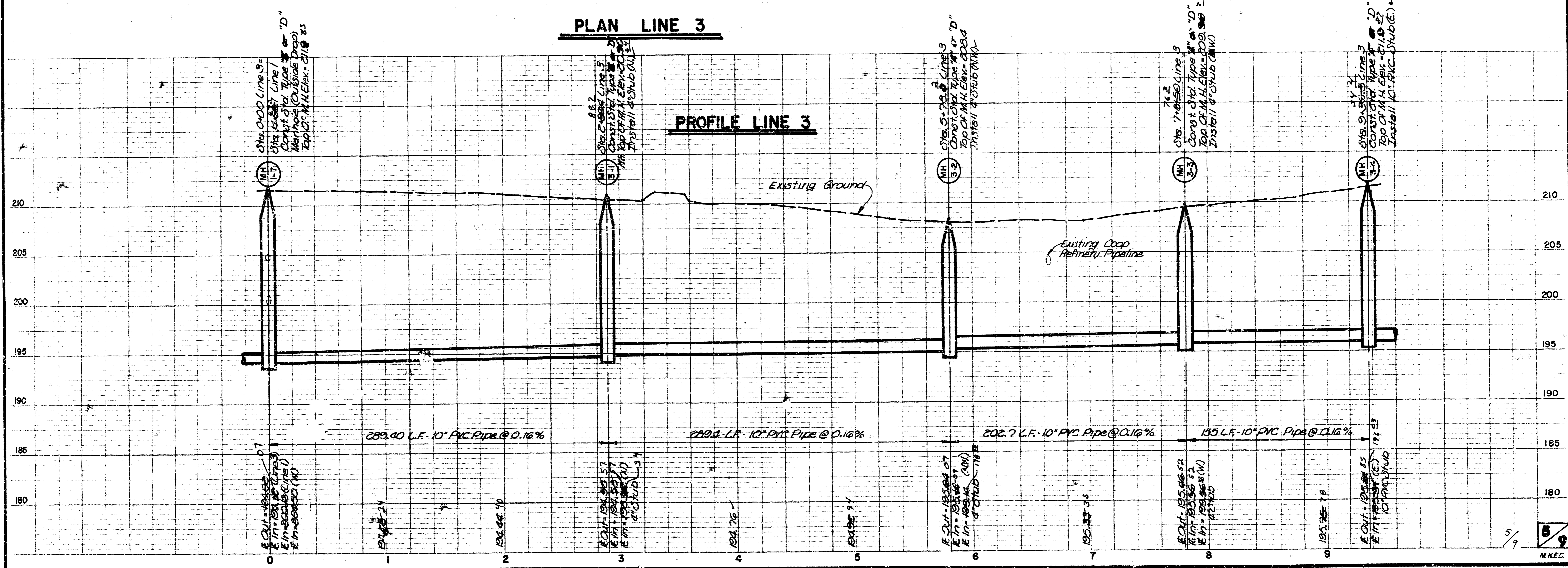


CAUTION: HIGH PRESSURE COOP
 PIPELINE. CONTACT BILL STULL
 24 HRS. PRIOR TO EXCAVATION
 AT: 1-315-221-2107

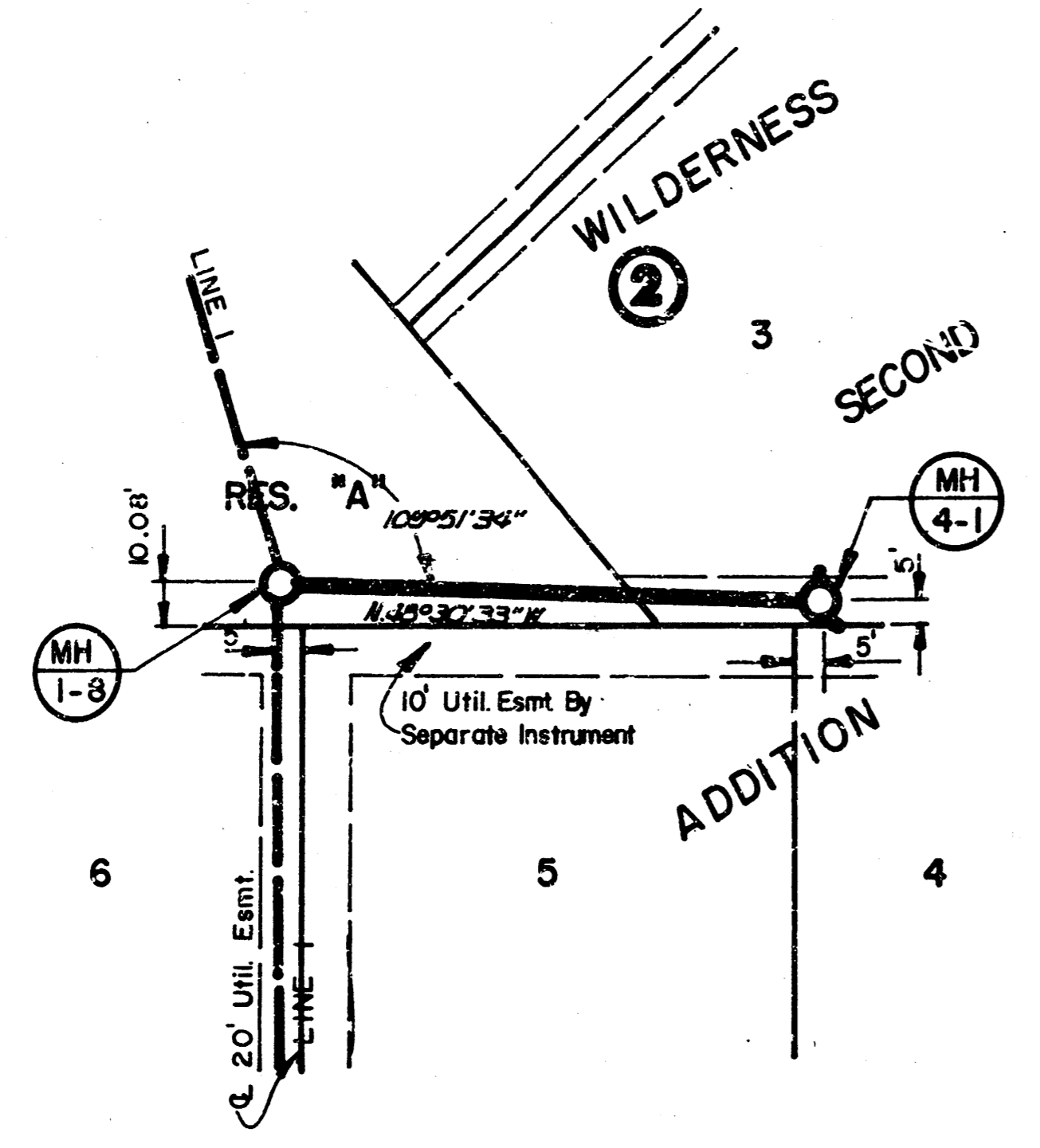
As Built
 10-85
 S.S.G.

PLAN LINE 3

PROFILE LINE 3

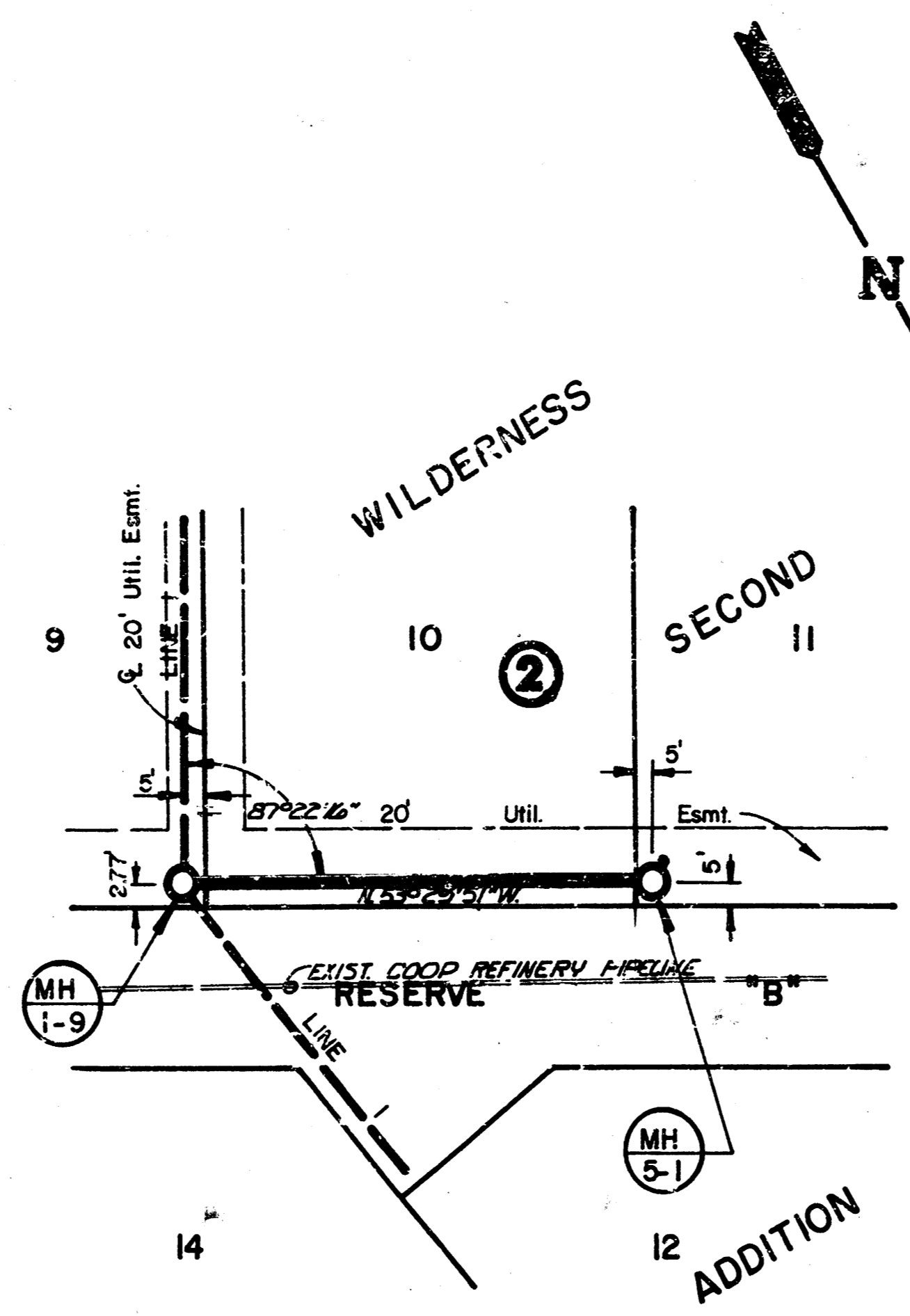


Scale: 1" = 40' Horiz.
 1" = 5' Vert.



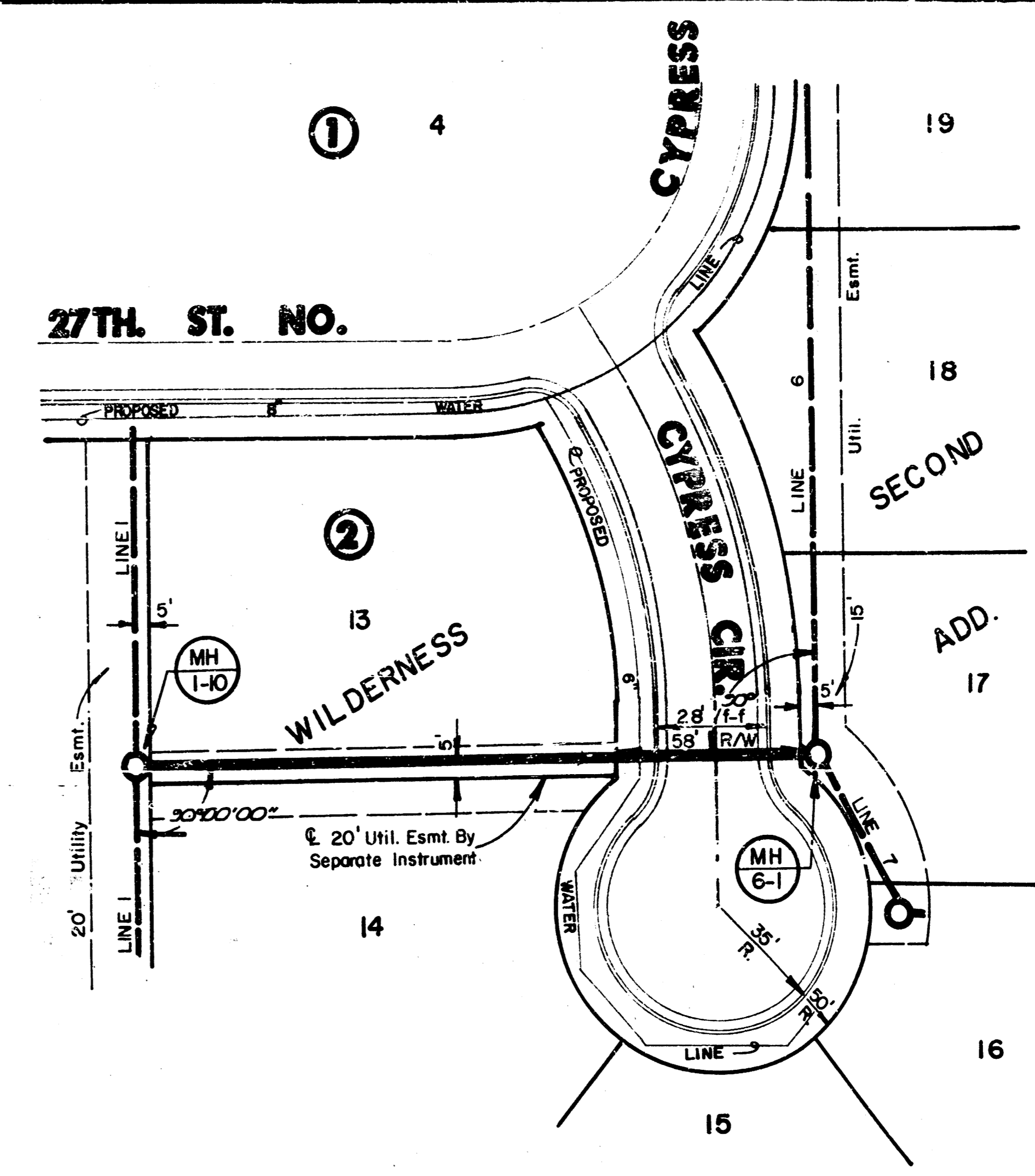
PLAN LINE 4

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



PLAN LINE 5

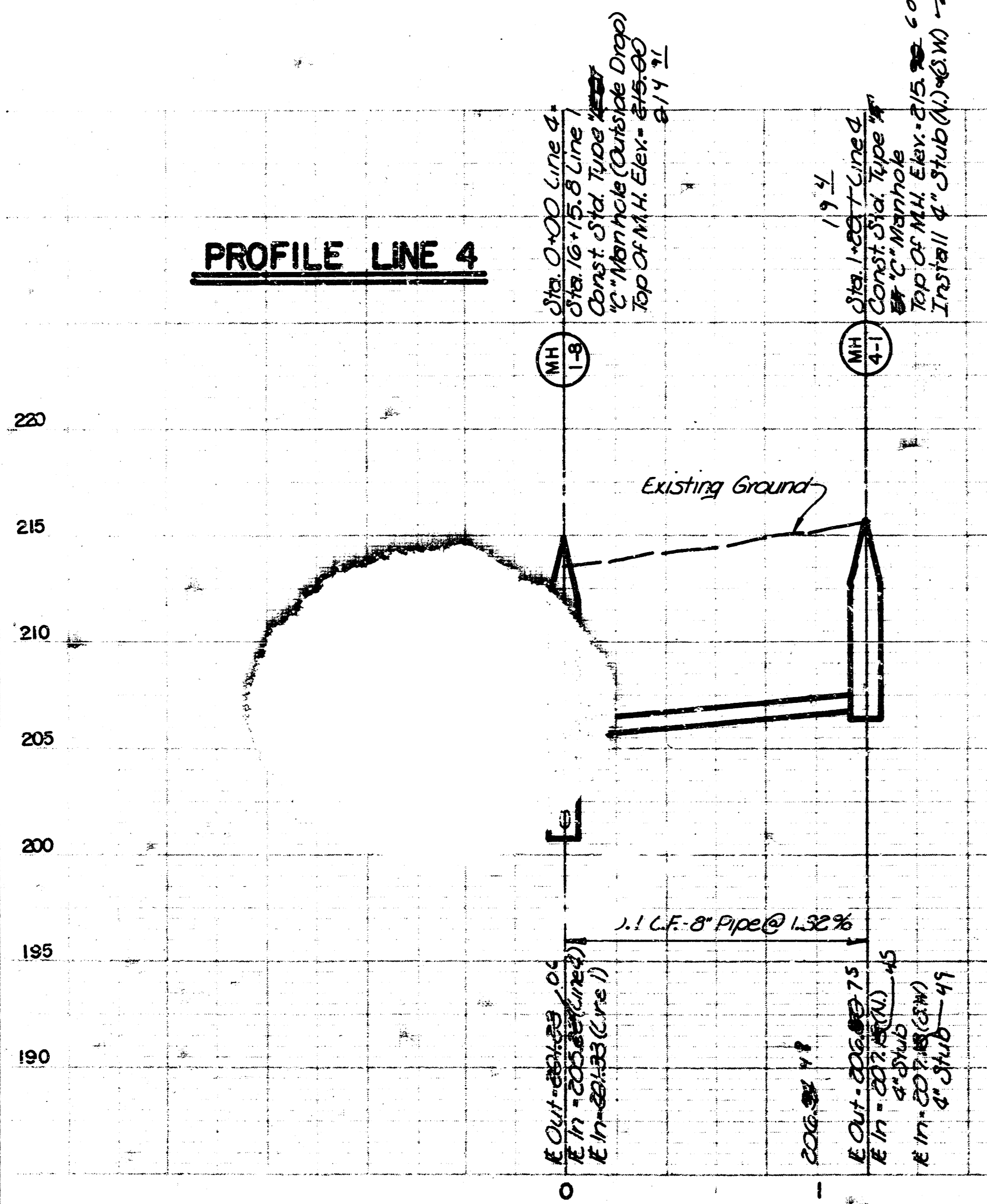
Scale: 1" = 40' Horiz.
 1" = 5' Vert.



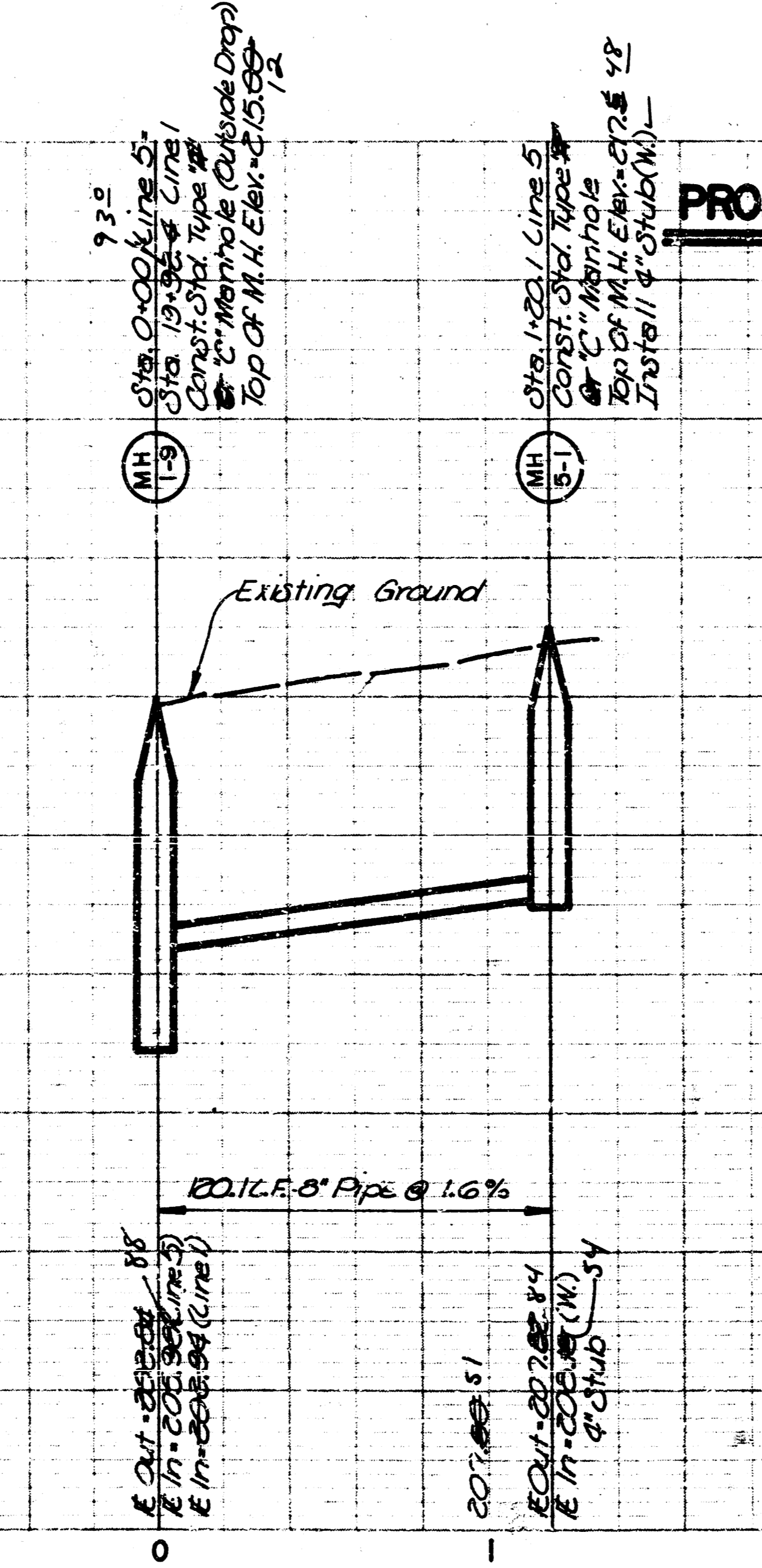
PLAN LINE 6

*As Built
 10-85
 J & J*

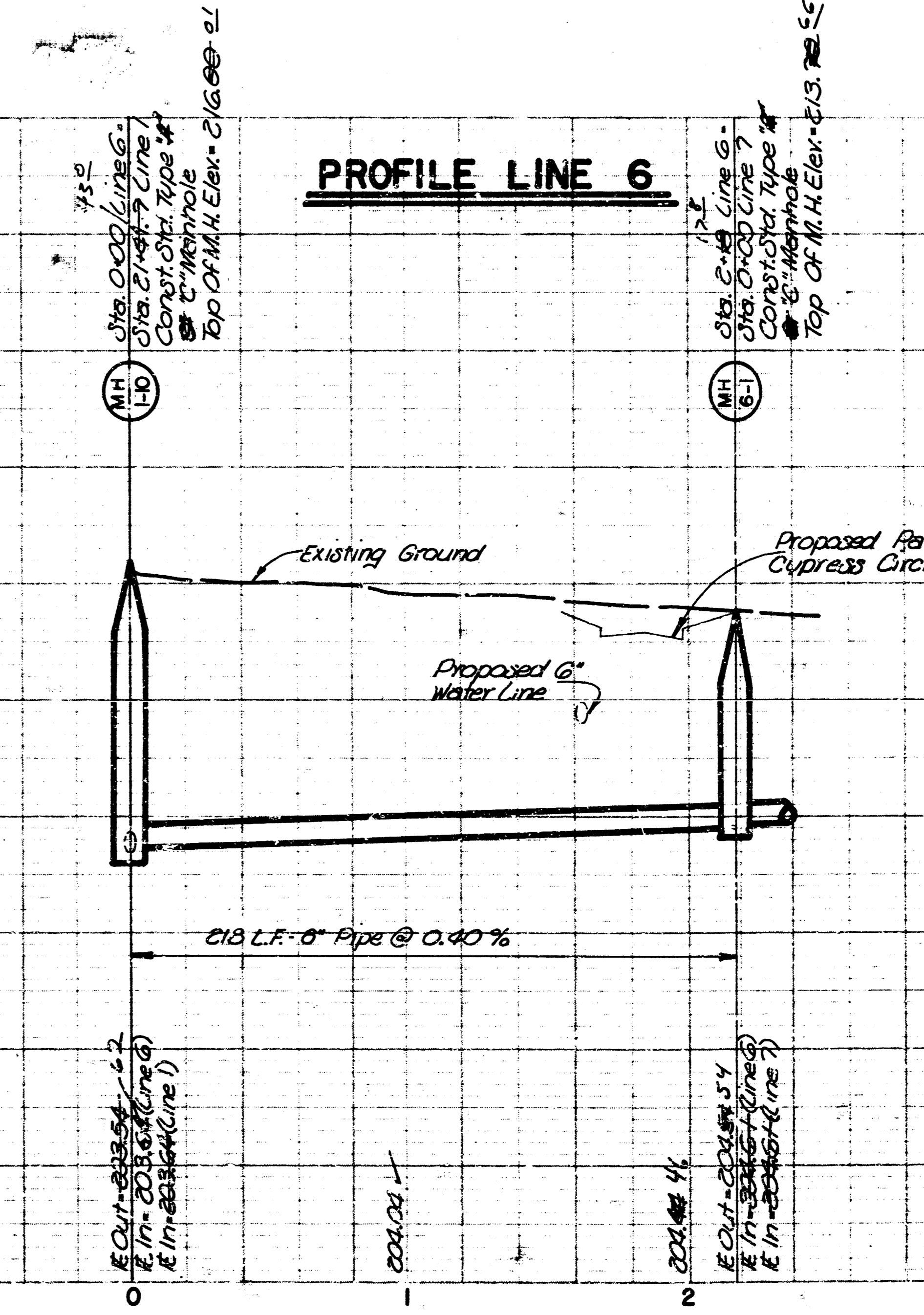
PROFILE LINE 4



PROFILE LINE 5



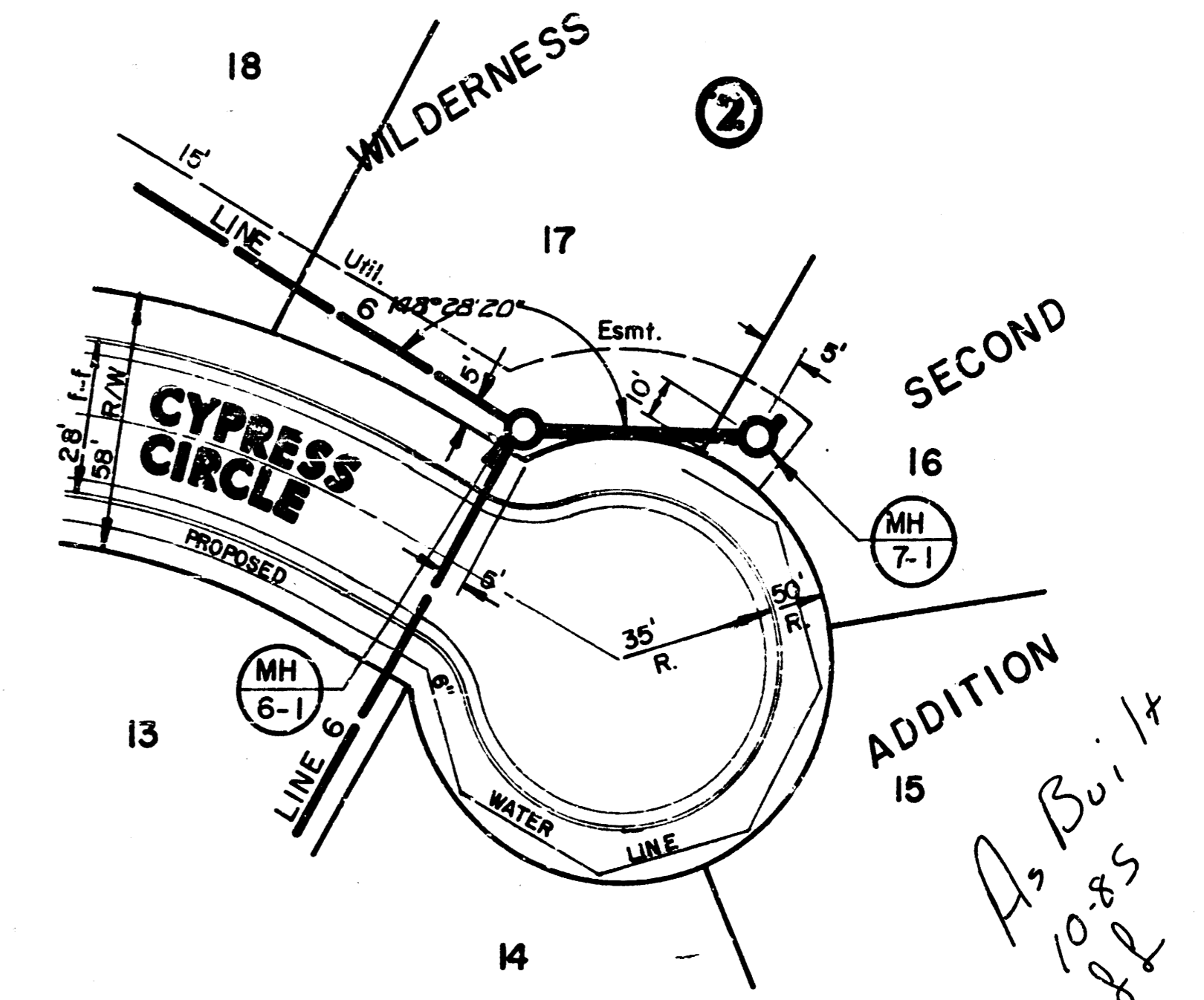
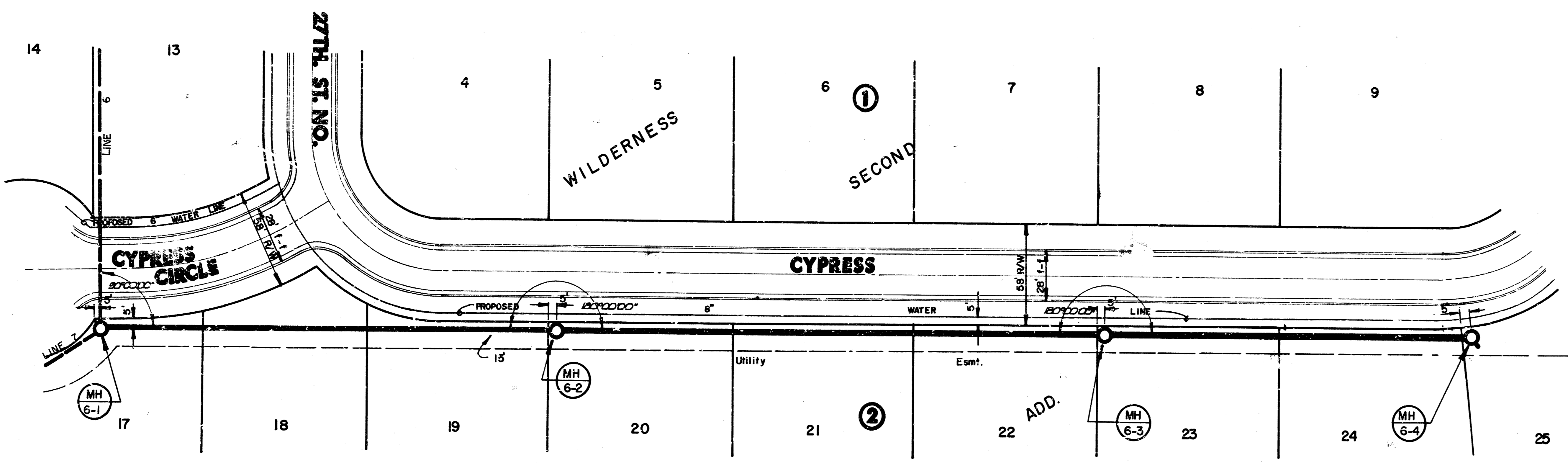
PROFILE LINE 6



WILDERNESS ADDITION
 SANITARY SEWER LAT 35, MAIN 22 W.S.
 PROJ. NO. 468-76-245-81418-000-00001

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

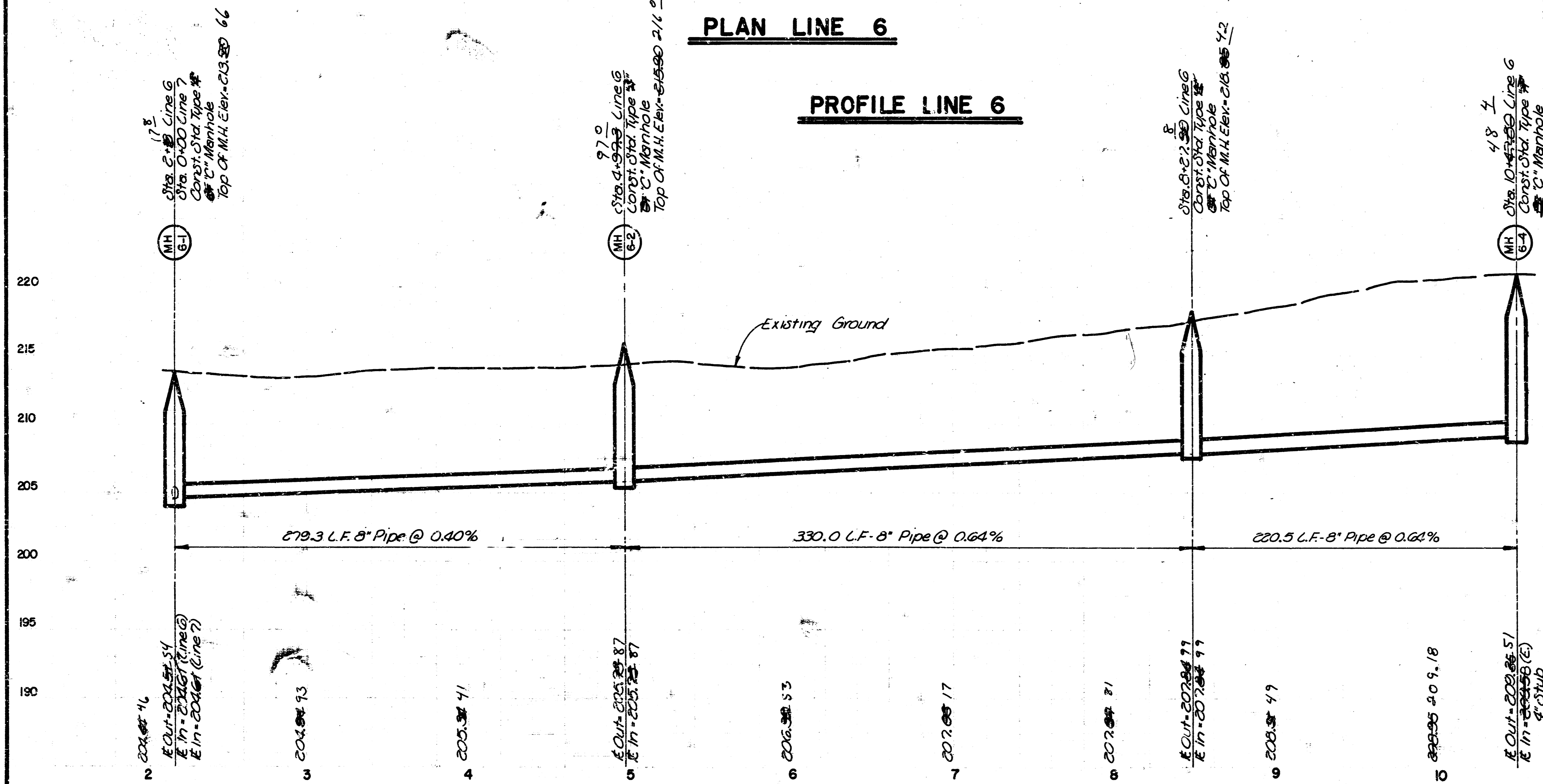
N
 Scale: 1" = 40' Horiz.
 1" = 5' Vert.



*As Built
 1/20/85
 JLL*

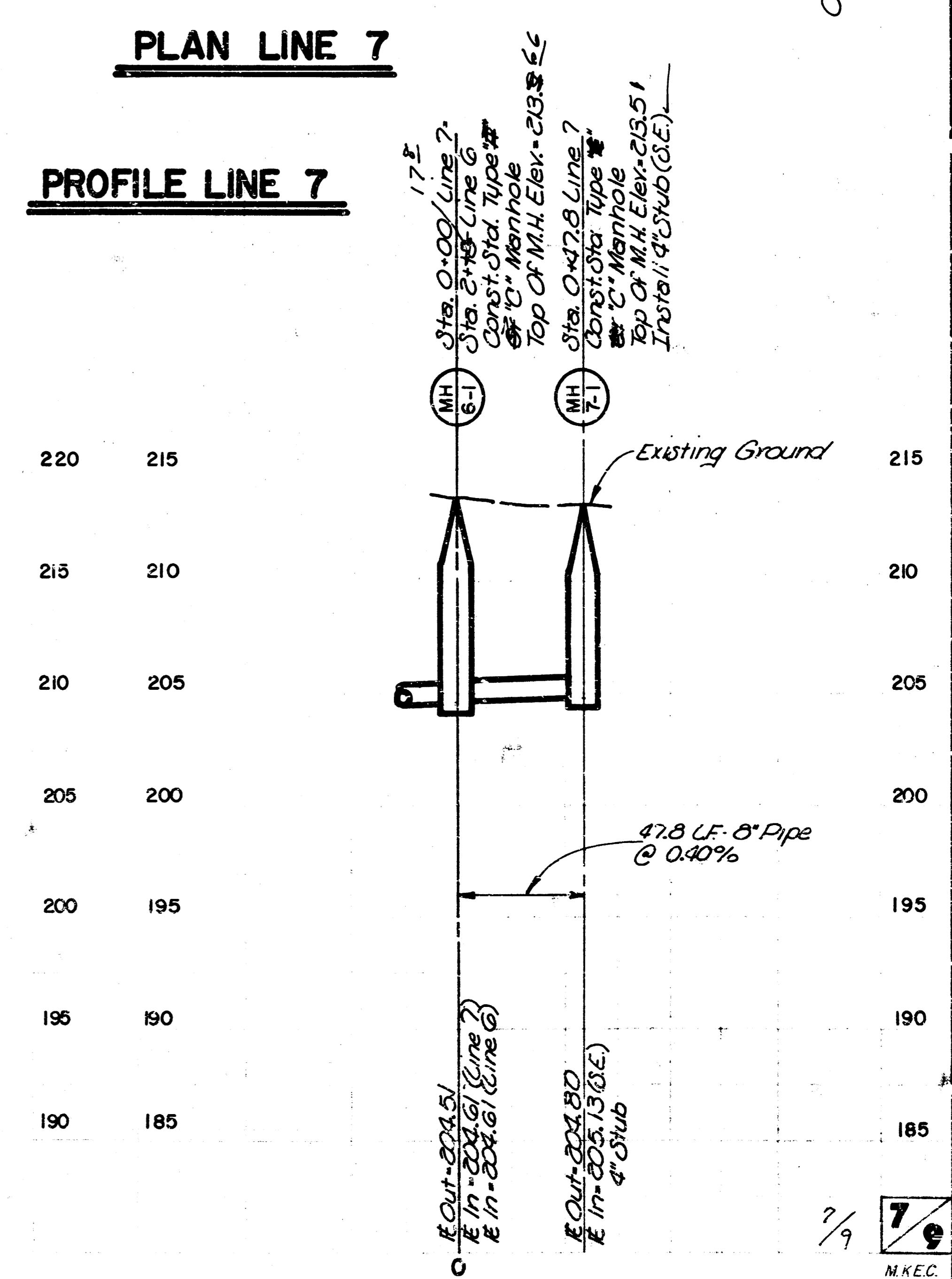
PLAN LINE 6

PROFILE LINE 6



PLAN LINE 7

PROFILE LINE 7

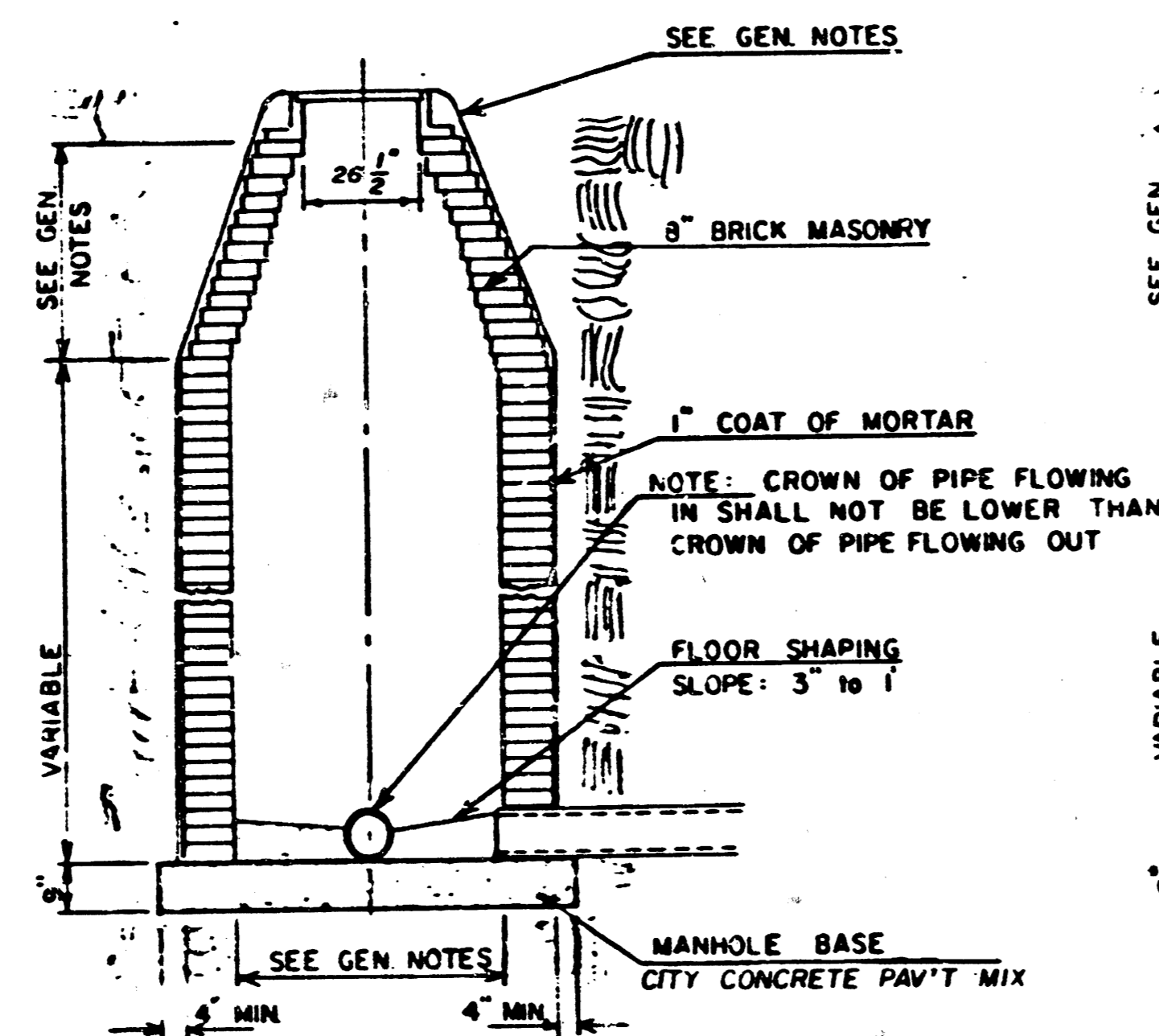


SEWER APPURTENANCES DETAILS

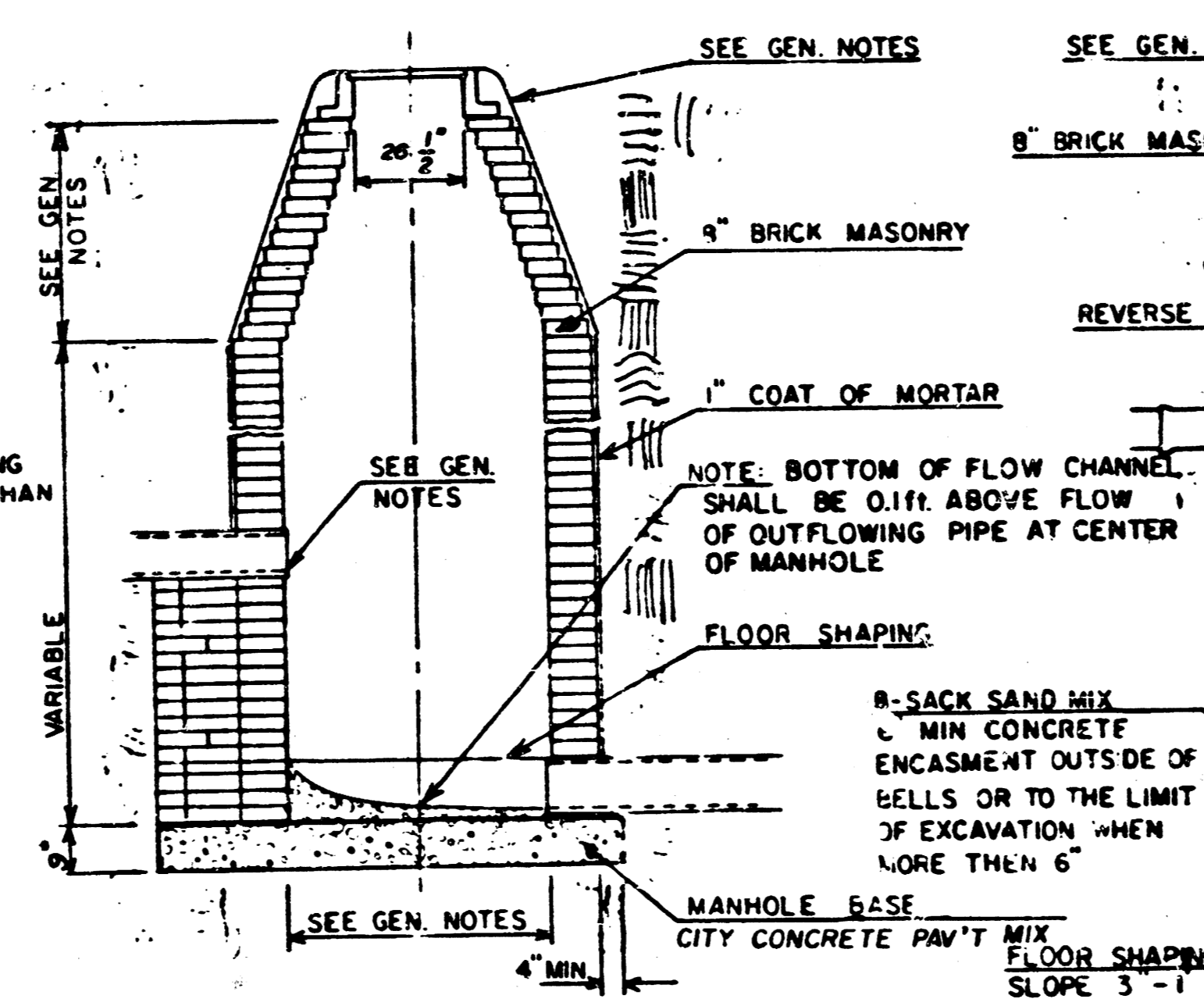
ADOPTED AS STANDARD DESIGN
BY

CITY of WICHITA, KANSAS

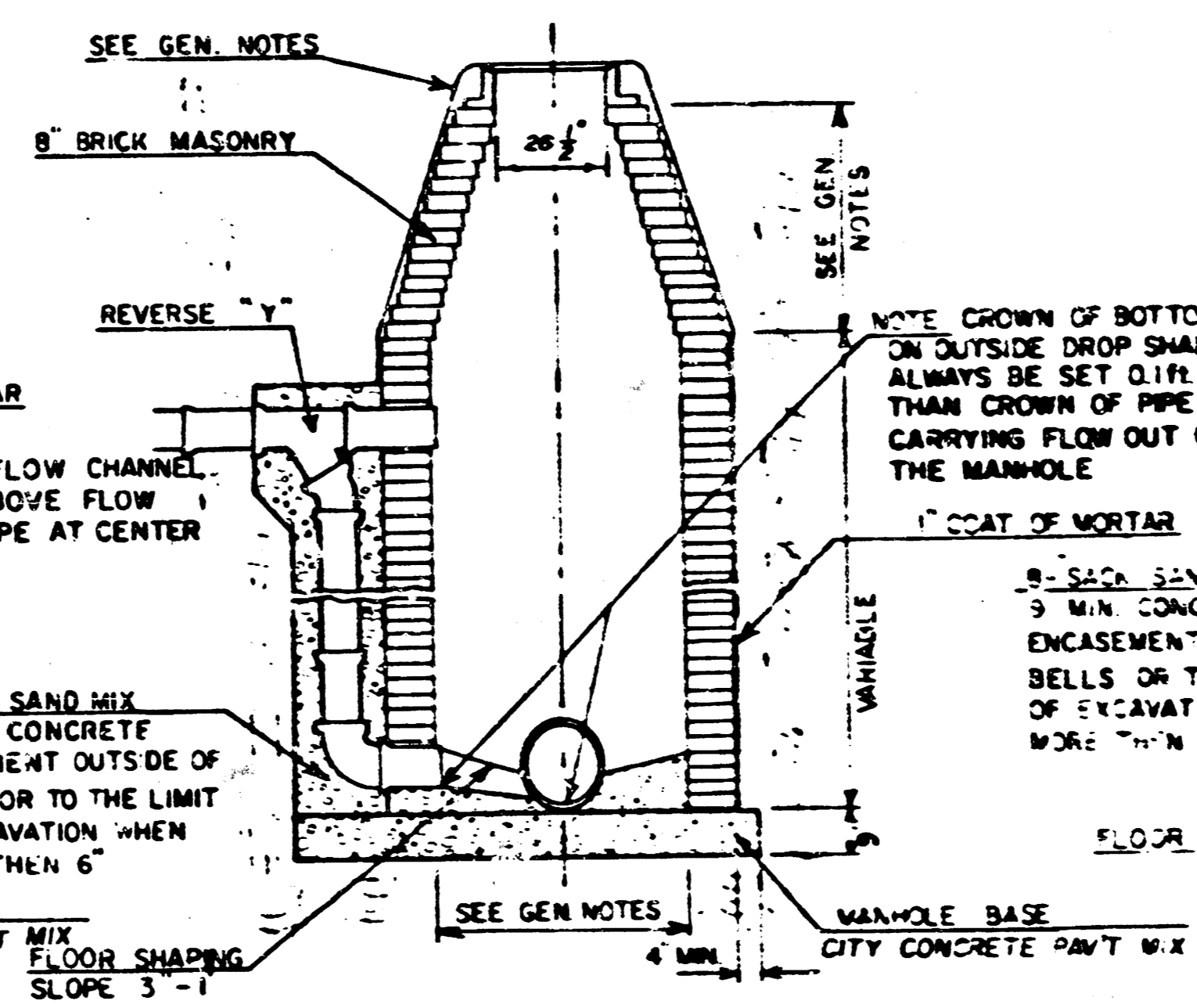
TYPE "A" MANHOLE



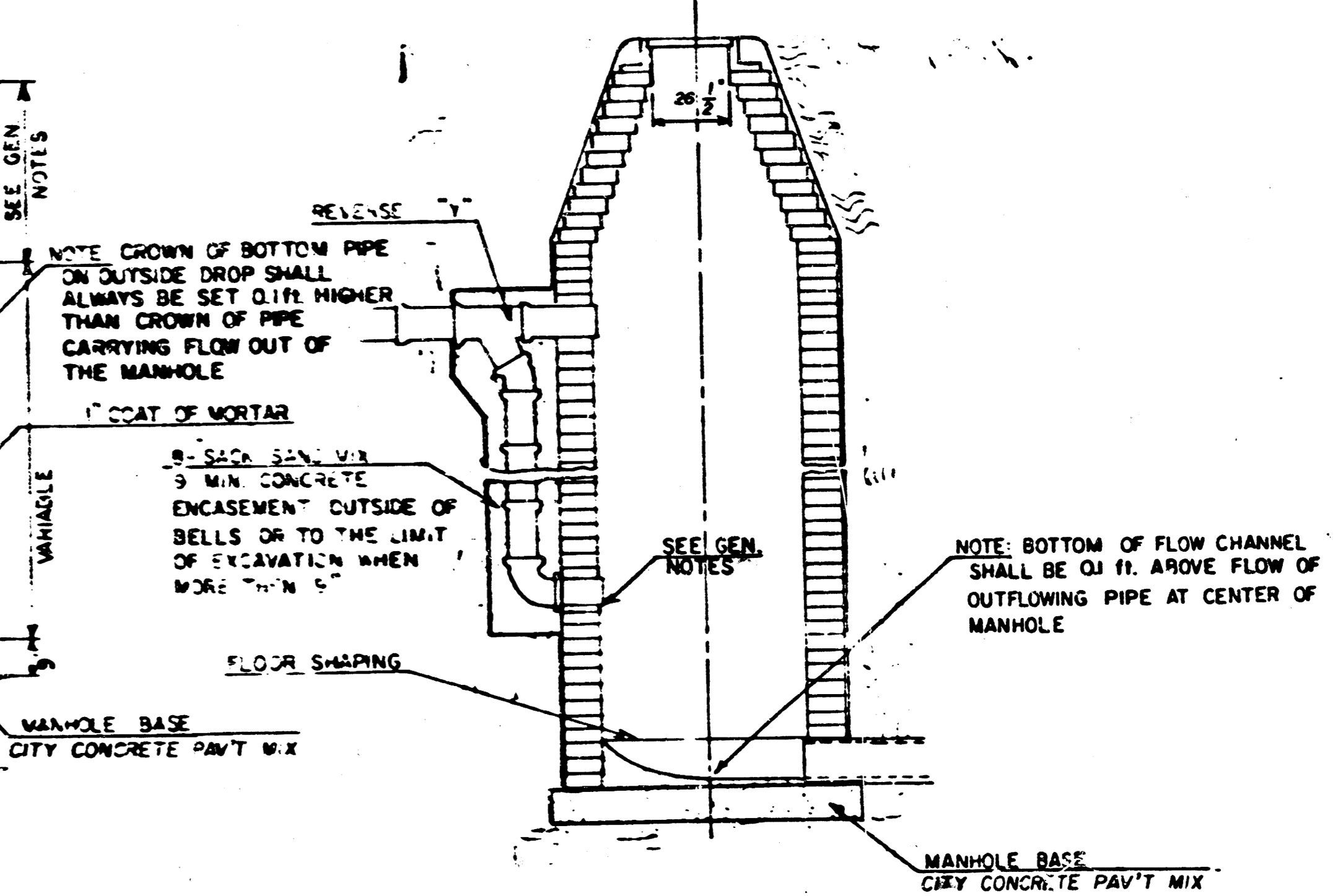
TYPE "A" INSIDE DROP MANHOLE



TYPE "A" OUTSIDE DROP MANHOLE



DETAIL OF OUTSIDE DROP
CONSTRUCTED ON EXISTING MANHOLE



GENERAL NOTES

- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. TYPE "A" MANHOLES CAN BE USED ON SEWERS UP TO 16' IN DEPTH 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'. THE HEIGHT OF THE CORBELS ON 4' DIAMETER MANHOLES SHALL BE 4". MANHOLES HAVING A DIAMETER OF 5' SHALL HAVE CORBELS 6' IN HEIGHT. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
- REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED 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.
- OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS BE USED WITH P.V.C. AND A.B.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THE VERTICAL DROP FROM THE LOWER PIPE ON SUCH OUTSIDE DROP CONNECTIONS SHALL NOT EXCEED 4' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES SIZED LARGER THAN 12". EXCEPT THE CROWN OF THE LOWER PIPE SHALL NEVER BE SET BELOW THE CROWN OF ANY LARGER OUTFLOWING PIPE. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
- THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLUTION COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAR LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
- PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF THE CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
- MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
- THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 4' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
- STANDARD MANHOLES TYPE "A" AND STANDARD INSIDE DROP MANHOLES TYPE "A" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES TYPE "A" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

725

88-7-1-W

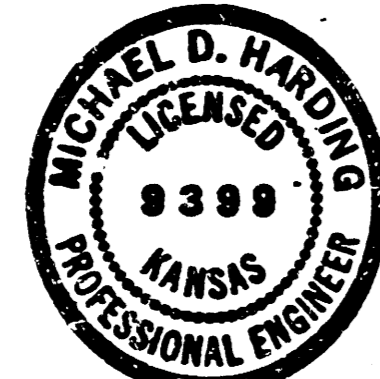
I, Michael D. Harding, a Civil Engineer in Kansas, do hereby certify that I have been in responsible charge of surveying and platting of "WILDERNESS SECOND ADDITION", an addition to Wichita, Sedgwick County, Kansas, into Lots, Blocks, Streets and Reserves, the same being accurately set forth in the accompanying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

A tract of land lying within the northeast quarter of Section 5, Township 27 South, Range 2 east of the 6th Principal Meridian, more particularly described as follows:

Beginning at the northeast corner of "Wilderness", an addition to Wichita, Sedgwick County, Kansas; thence along the north line of said addition, extended easterly bearing N 89° 06' 39" E, 49.90 feet to a point on the west line of Government Lot 1; thence southerly along said west line bearing S 09° 54' 07" E, 1330.25 feet; thence S 89° 06' 39" W, 50.00 feet; thence S 24° 37' 53" W, 218.63 feet; thence S 76° 37' 53" W, 578.64 feet; thence S 21° 37' 53" W, 161.38 feet; thence N 68° 22' 07" W, 150.00 feet to the southeast corner of said "Wilderness" addition; thence northerly along the east line of said addition bearing N 21° 37' 53" E, 70.17 feet to the beginning of a curve to the left, having a radius of 308.50 feet, a central angle of 22° 30' 00", and a long chord bearing N 10° 22' 53" E, 120.37 feet; thence along said curve an arc length of 121.15 feet; thence N 00° 52' 07" W, 110.91 feet to the beginning of a curve to the right, having a radius of 174.06 feet, a central angle of 40° 00' 00", and a long chord bearing N 19° 07' 53" E, 119.06 feet; thence along said curve an arc length of 121.52 feet; thence N 39° 07' 53" E, 304.68 feet to the beginning of a curve to the left, having a radius of 252.88 feet, a central angle of 94° 33' 15", and a long chord bearing N 08° 08' 44" W, 386.25 feet; thence along said curve an arc length of 433.83 feet; thence N 55° 25' 22" W, 43.86 feet; thence N 34° 34' 38" E, 80.00 feet to the beginning of a curve to the left, having a radius of 50.00 feet, a central angle of 126° 03' 03", and a long chord bearing N 52° 20' 42" E, 89.12 feet; thence along said curve an arc length of 110.00 feet; thence N 79° 19' 10" E, 183.57 feet; thence N 00° 53' 21" W, 126.72 feet; thence N 44° 06' 39" E, 87.95 feet; thence N 89° 06' 39" E, 145.82 feet; thence N 00° 53' 21" W, 99.00 feet to the beginning of a curve to the left, having a radius of 109.00 feet, a central angle of 45° 00' 00", and a long chord bearing N 23° 23' 21" W, 83.43 feet; thence along said curve an arc length of 85.61 feet; thence N 44° 06' 39" E, 257.28 feet to the point of beginning containing 19.63 acres more or less.

I hereby certify that the details of this plat are correct to the best of my knowledge and belief this 5th day of November, 1984.

Michael D. Harding
Michael D. Harding
Mid-Kansas Engineering Consultants, P.A.
240 N. Rock Road, Suite 130
Wichita, KS 67206



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, streets and reserves, the same to be known as "WILDERNESS SECOND ADDITION" an addition to Wichita, Sedgwick County, Kansas. The streets are hereby dedicated to and for the use of the public. Easements for the construction and maintenance of public utilities and drainage are hereby granted as indicated. The reserves are being platted for construction and maintenance of public utilities, landscaping, irrigation, cart paths, recreation buffer zones, open space, and drainage. Reserve "D" is also reserved for a screen wall. Reserves shall be owned and maintained by the Homeowners Association. All abutters rights of access to or from 29th Street North over and across the north line of Lot 25 Block 2, "WILDERNESS SECOND ADDITION", is hereby granted to the City of Wichita. The building setbacks shall be in accordance with the Tallgrass Community Unit Plan (D.P. - 96) on file in the City of Wichita, Sedgwick County Metropolitan Area Planning Department Office.

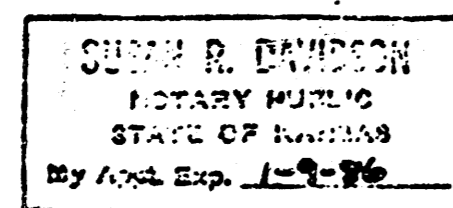
Tallgrass Company, a partnership

By: Jack D. Ritchie, partner

STATE OF KANSAS
COUNTY OF SEDGWICK

Be it remembered that on this 5th day of November, 1984, before me, a Notary Public in and for said State and County, came Jack D. Ritchie, partner on behalf of Tallgrass Company, a partnership 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.

Susan A. Davidson, Notary Public
My Appointment Expires: 1-9-86



FINAL PLAT OF

WILDERNESS SECOND ADDITION

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

This plat of "Wilderness second addition" has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this 18th day of October, 1984.

Wichita-Sedgwick County Metropolitan Area Planning Commission

James C. Wilson, Chairman
James C. Wilson

Robert A. Lakin, Secretary
Robert A. Lakin

This plat approved and all dedications shown hereon, if any, accepted by the City Commission of the City of Wichita, Kansas, this 12th day of November, 1984.

Robert S. Knight, Mayor
Robert S. Knight

Donald C. Glick, City Clerk
Donald C. Glick

This plat approved and all dedications shown hereon, if any, accepted by the Board of County Commissioners of Sedgwick County, Kansas, this 12th day of December, 1984.

Jack Spratt, Chairman
Jack Spratt

Donald B. Gragg, Commissioner
Donald B. Gragg

Tom Scott, Commissioner
Tom Scott

Attest: Michael T. Sawyer, County Clerk
Michael T. Sawyer

Entered on transfer record this 12th day of December, 1984.

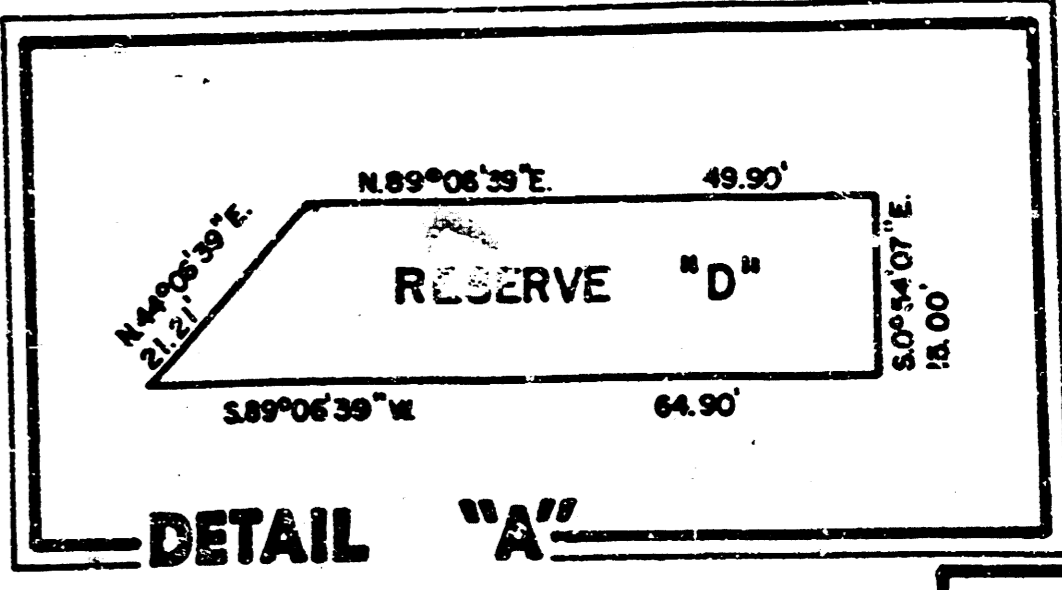
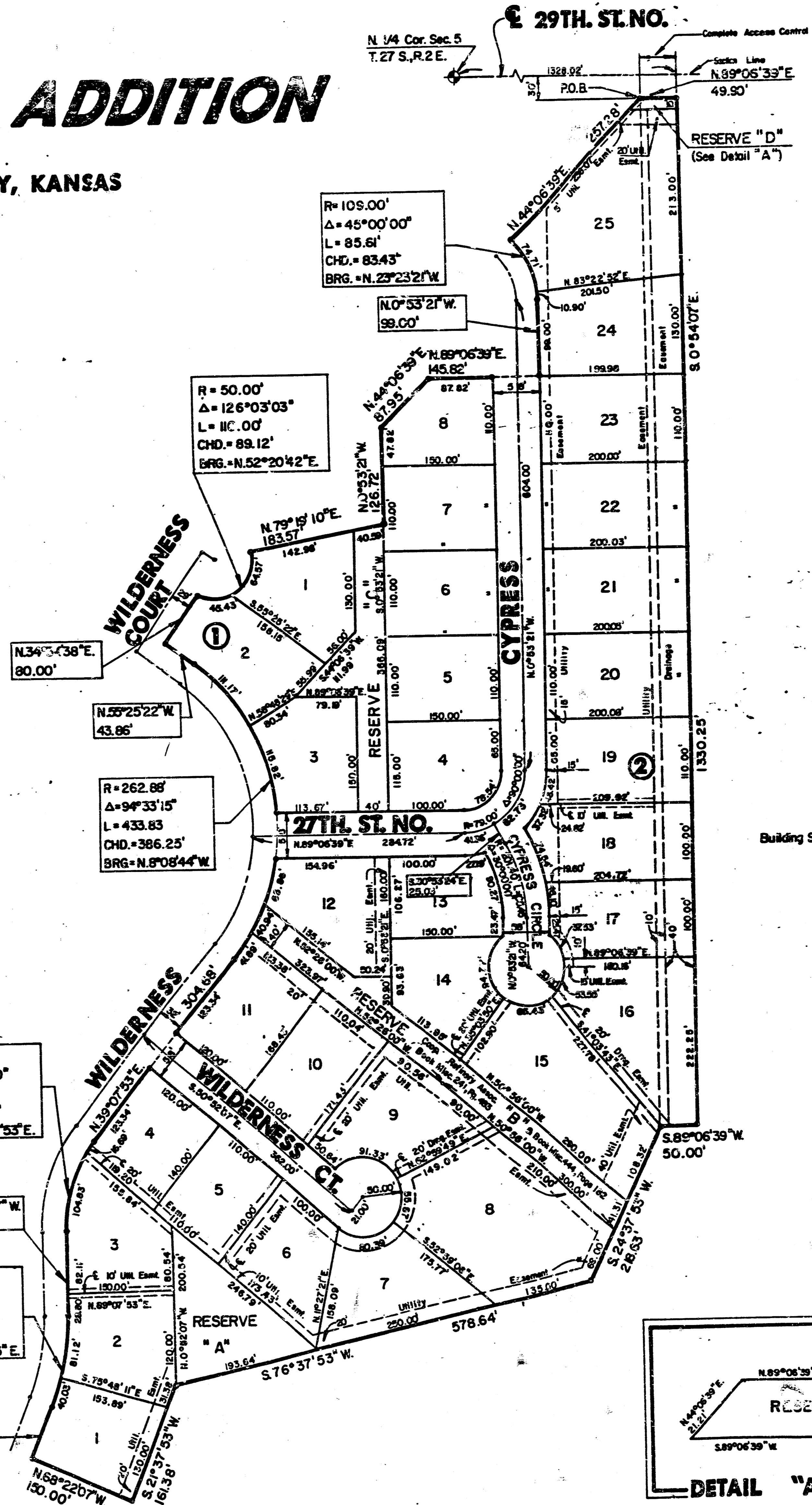
Michael T. Sawyer, County Clerk
Michael T. Sawyer

STATE OF KANSAS
COUNTY OF SEDGWICK

This is to certify that this instrument was filed for record in the Register of Deeds Office at 8:00 AM on the 13th day of DECEMBER, 1984.

Bette F. McCart, Register of Deeds
Bette F. McCart

Pat Kettler, Deputy
Pat Kettler



Subdiv. Comm. F. 699 A. 236 + 237 14 10 3 9/9

20.00

M-1-6-23