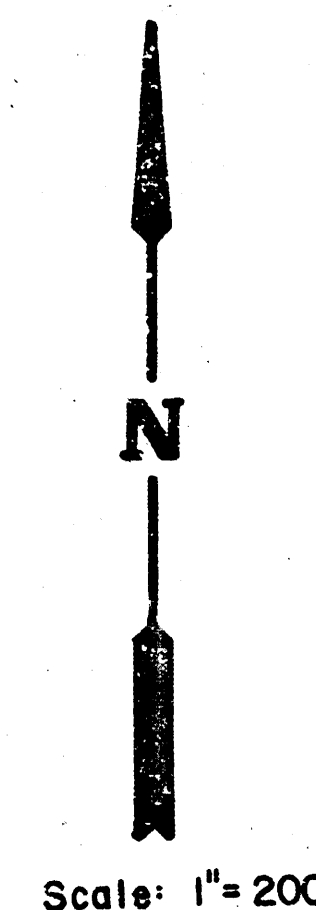


LATERAL 26, MAIN 7, S.S. NO. 23

PROJECT NO.
468-76-245-81112-000-000-001

CITY OF WICHITA, KANSAS
R. W. BRUGGEMAN, CITY ENGINEER
OCTOBER, 1982
WATERFORD NORTH



LEGEND

- PROPOSED LINE ———
- EXISTING LINE ———
- BENEFIT DISTRICT BOUNDARY ———

GENERAL NOTES

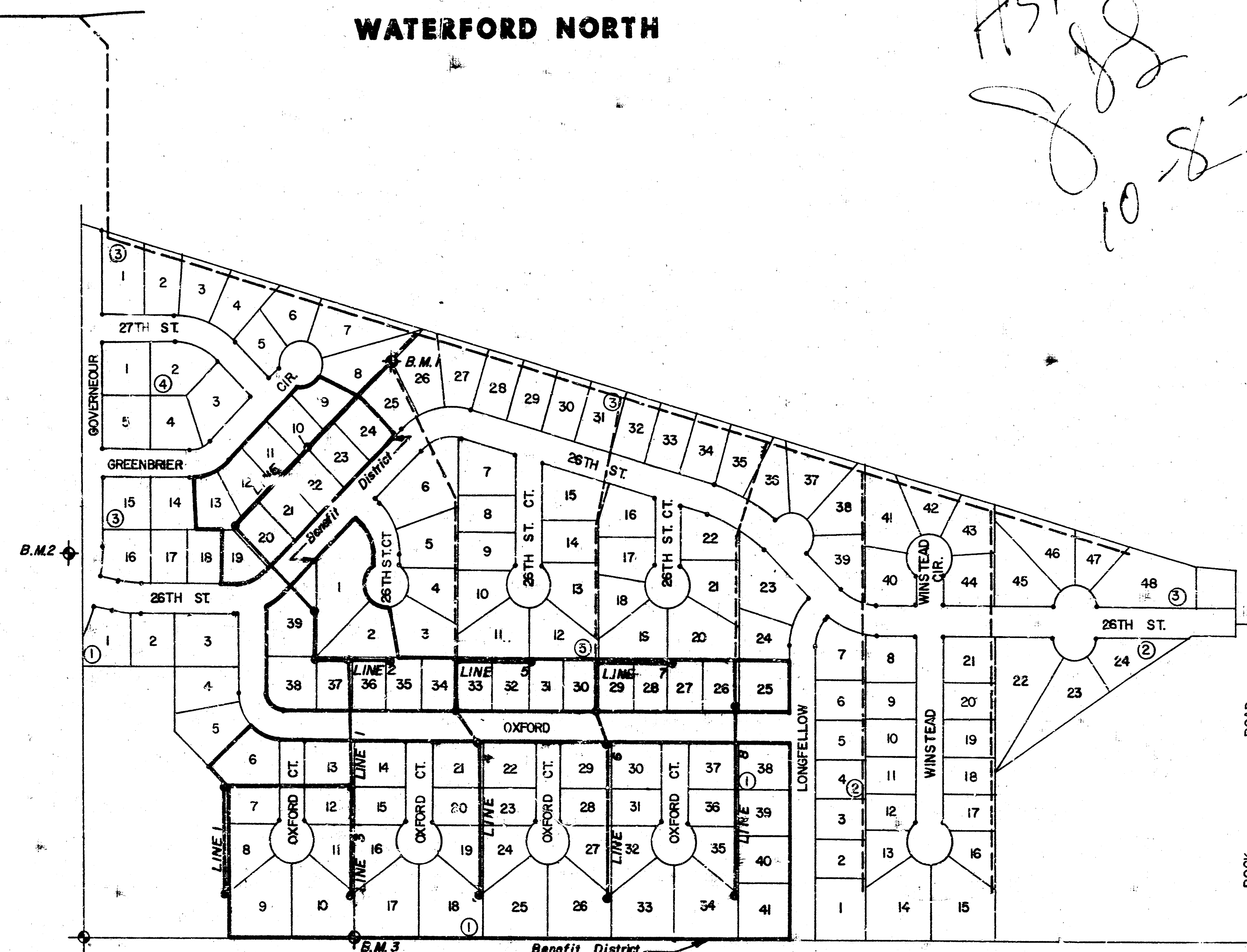
1. RISER PIPE SHALL BE INSTALLED TO SERVE INDIVIDUAL LOTS OR TRACTS IN CONJUNCTION WITH NEW SANITARY SEWER CONSTRUCTION, UNLESS OTHERWISE ORDERED BY THE ENGINEER, BECAUSE OF GROUND WATER, UNSTABLE SOIL OR UNUSUALLY DEEP CONSTRUCTION. RISER LOCATIONS SHALL BE AS APPROVED BY THE PROPERTY OWNER WITH THE 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.
2. 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.

B.M. #1:
S. rim of Existing Manhole
at W. corner of Lot 25,
Block 3, Waterford North
ELEVATION = 195.12'

B.M. #2:
604 spike in E. pole of
power line, 1st wood pole
north & west of S.W. corner,
Waterford North
ELEVATION = 192.93'

B.M. #3:
Step spike in S.W. face of
"T" pole at S.W. corner of
Lot 17, Block 1, Waterford
North
ELEVATION = 210.04'

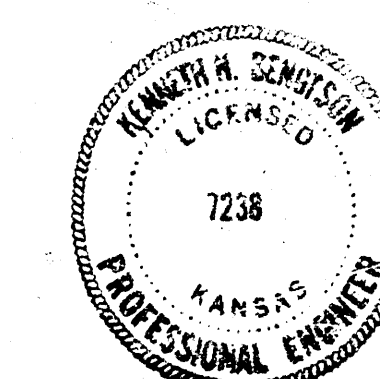
B.M. #4:
Step spike in west face
of 1st power pole, north &
east of intersection of
24th St. North & Rock Road
ELEVATION = 215.70'



*As Built
88
10-8-83*

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LINE 1
3	LINE 1, LINE 2 & LINE 3
4	LINE 4 & LINE 5
5	LINE 6 & LINE 7
6	LINE 8
7	PLAT
8	VERTICAL RISER DETAIL



	WED-KANSAS ENGINEERING CONSULTANTS P.A. 688-8888	
	360 N. ROCK ROAD WICHITA, KANSAS 67203	SHEET 1 1/8
	WATERFORD NORTH	

WATERFORD NORTH
LATERAL 26, MAIN 7, SAN. SEWER NO. 23
468-76-245-81112-000-000-001

Sta. 12+32.5 - Line 1 =
Sta. 0+00.0 - Line 3 - Const.
Std. Type "C" M.H.

Sta. 0+00.0 - Line 1 =
Sta. 0+32.3 - Line 7 (Existing)
Remove plug and connect
to existing 8" stubout.

Sta. 2+68.5 - Line 1 - Const.
Std. Type "C" M.H.

Sta. 7+63.5 - Line 1 - Const.
Std. Type "C" M.H.

Sta. 8+64.5 - Line 1 - Const.
Std. Type "C" M.H.

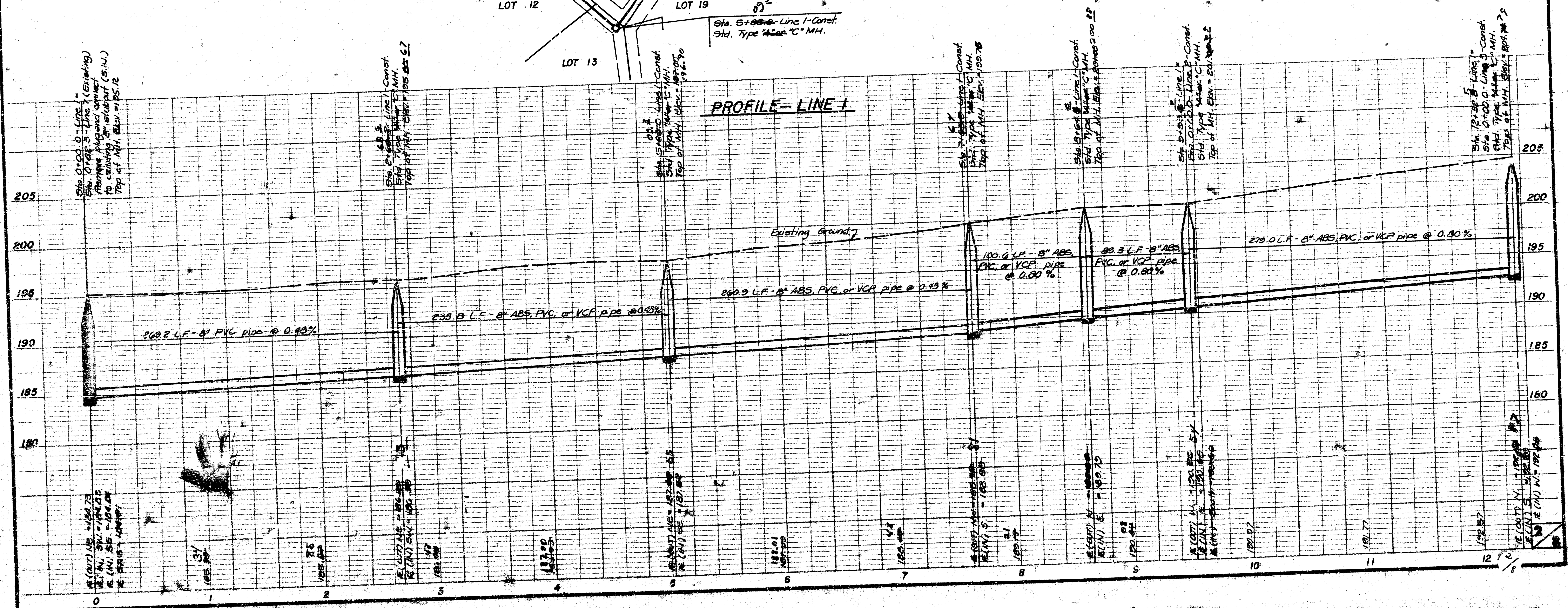
Sta. 5+66.5 - Line 1 - Const.
Std. Type "C" M.H.

As Built
J. 88
10-8-3

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

PLAN-LINE 1

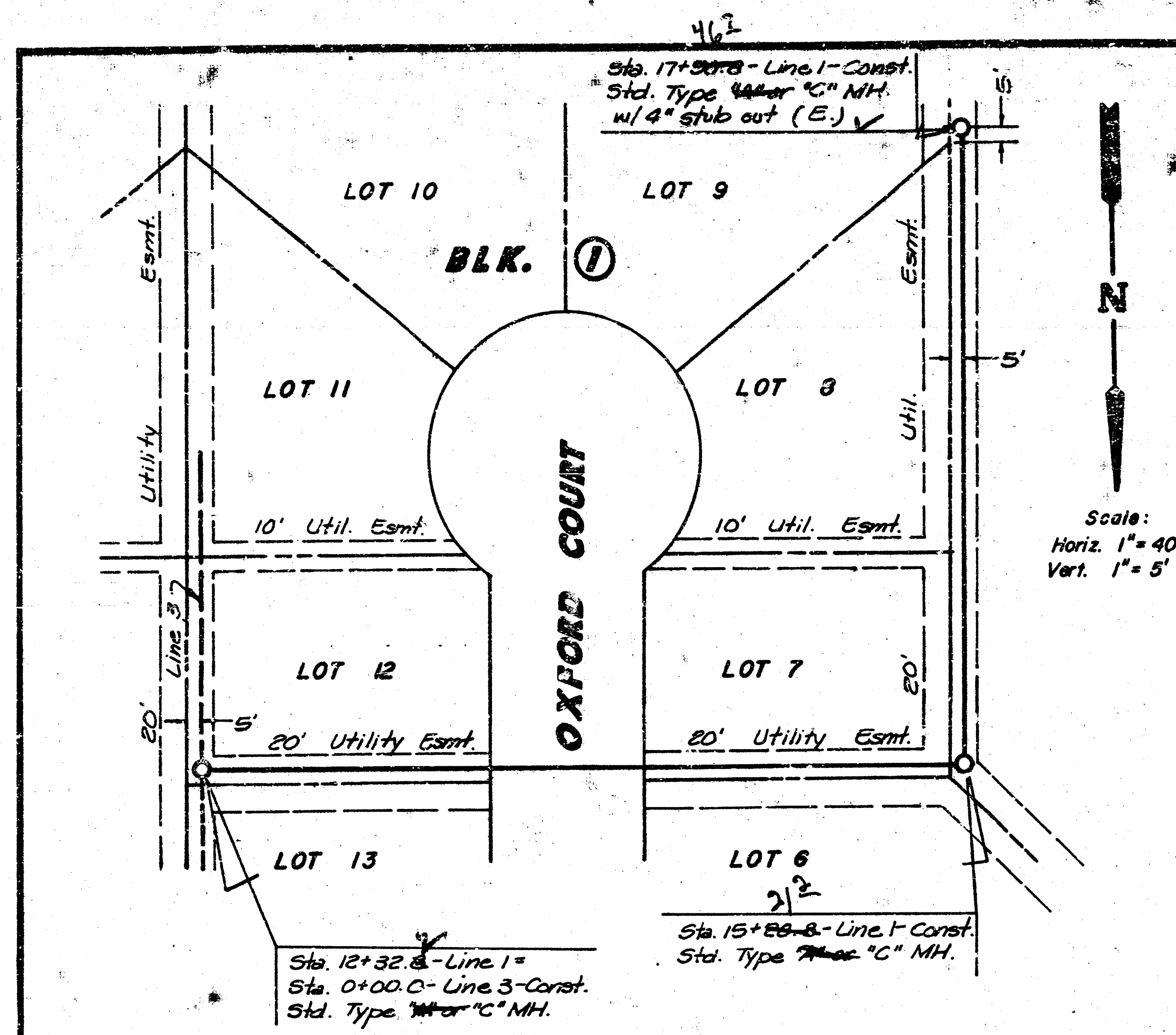
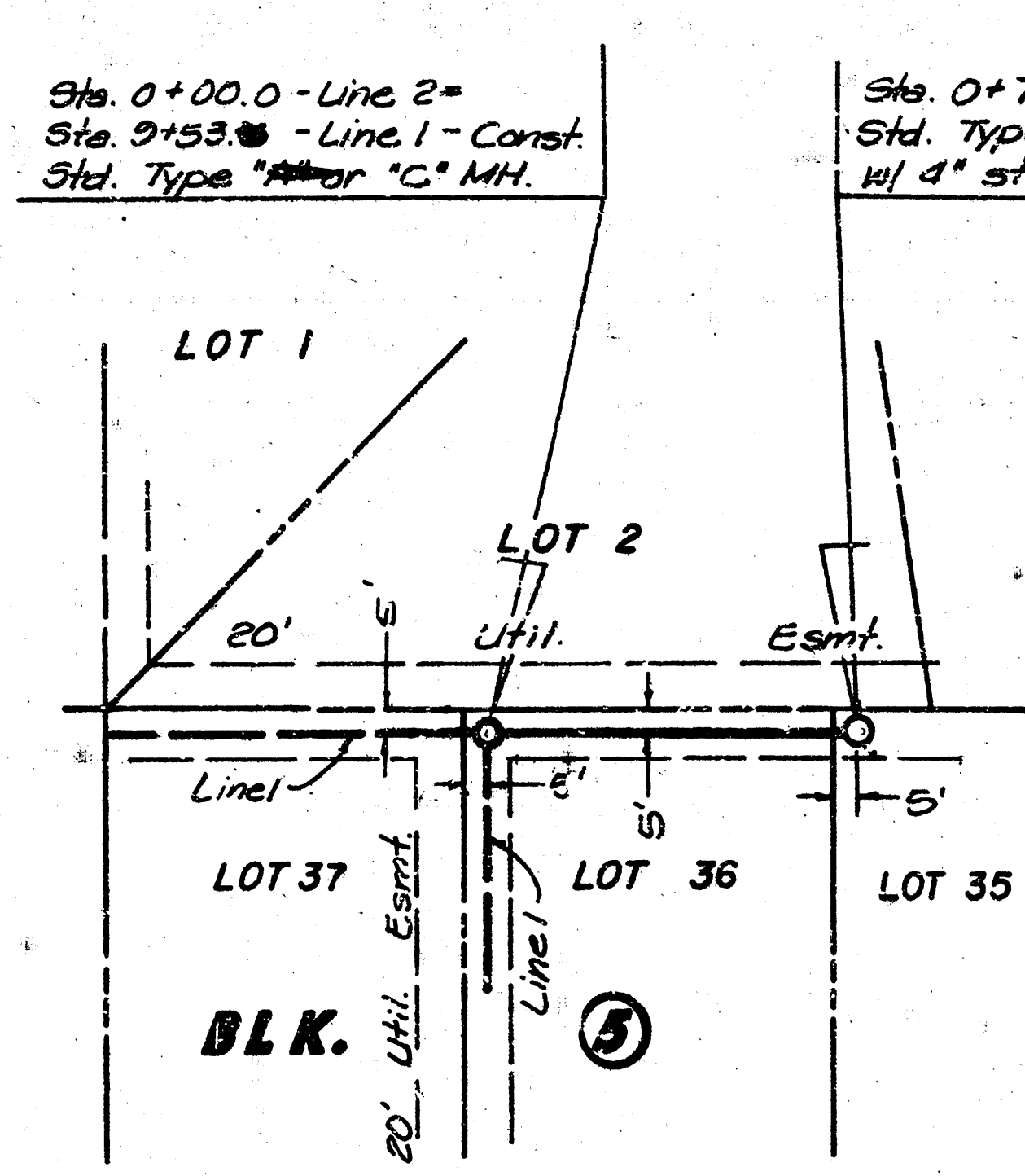
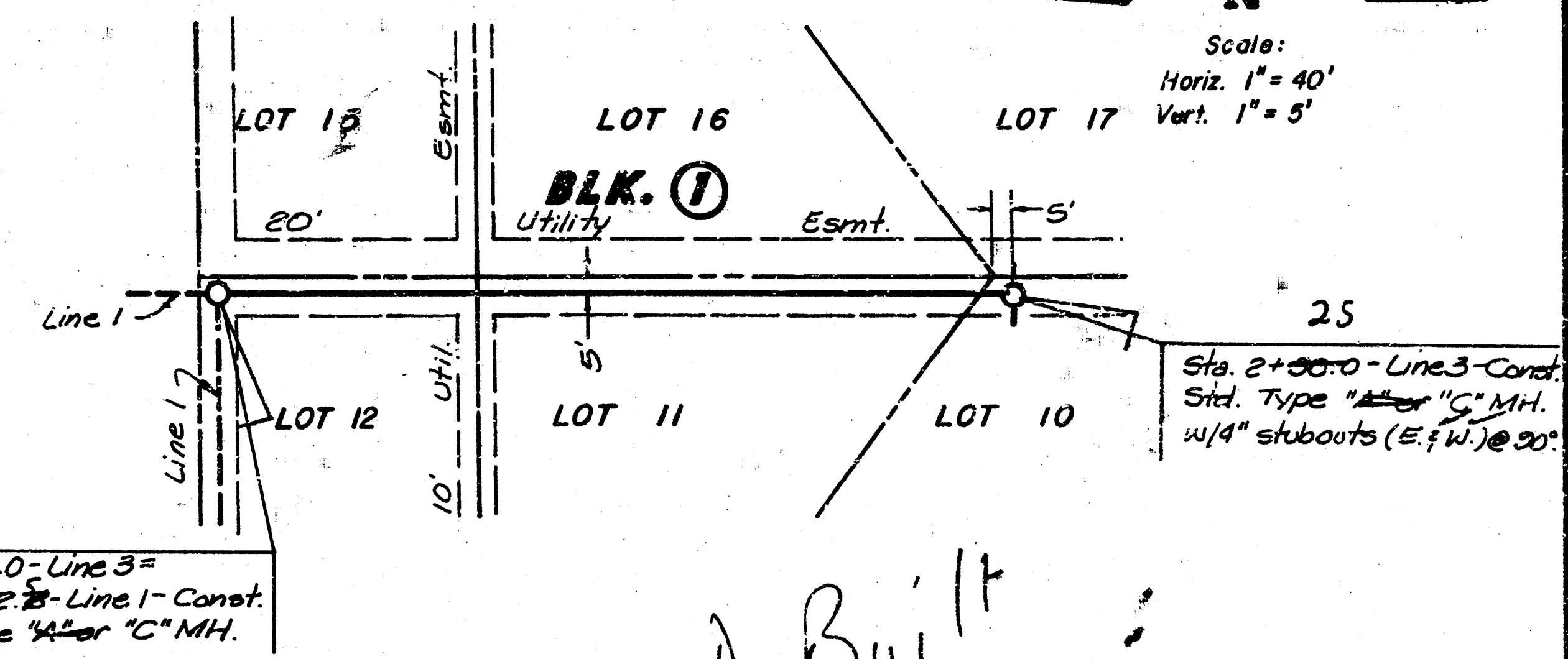
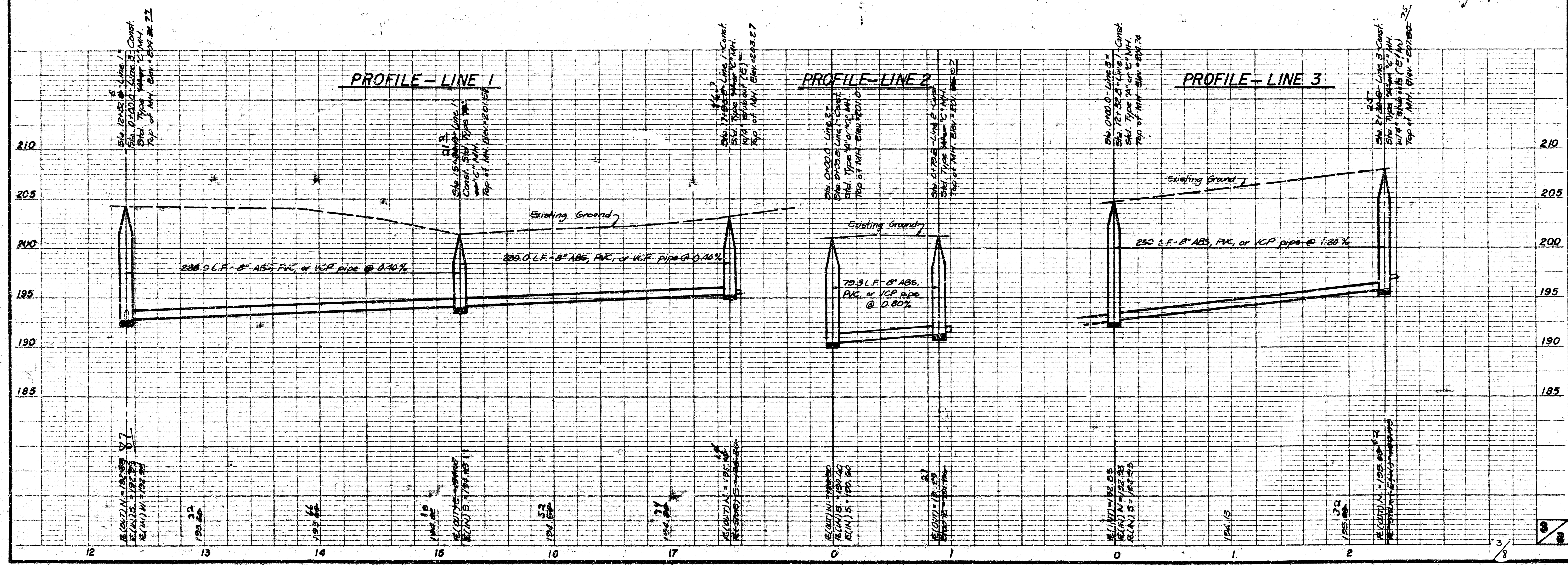
PROFILE-LINE 1



WATERFORD NON. 1
LATERAL 26, MAIN 7, SAN. SEWER NO. 23
468-76-245-81112 -000-000-001

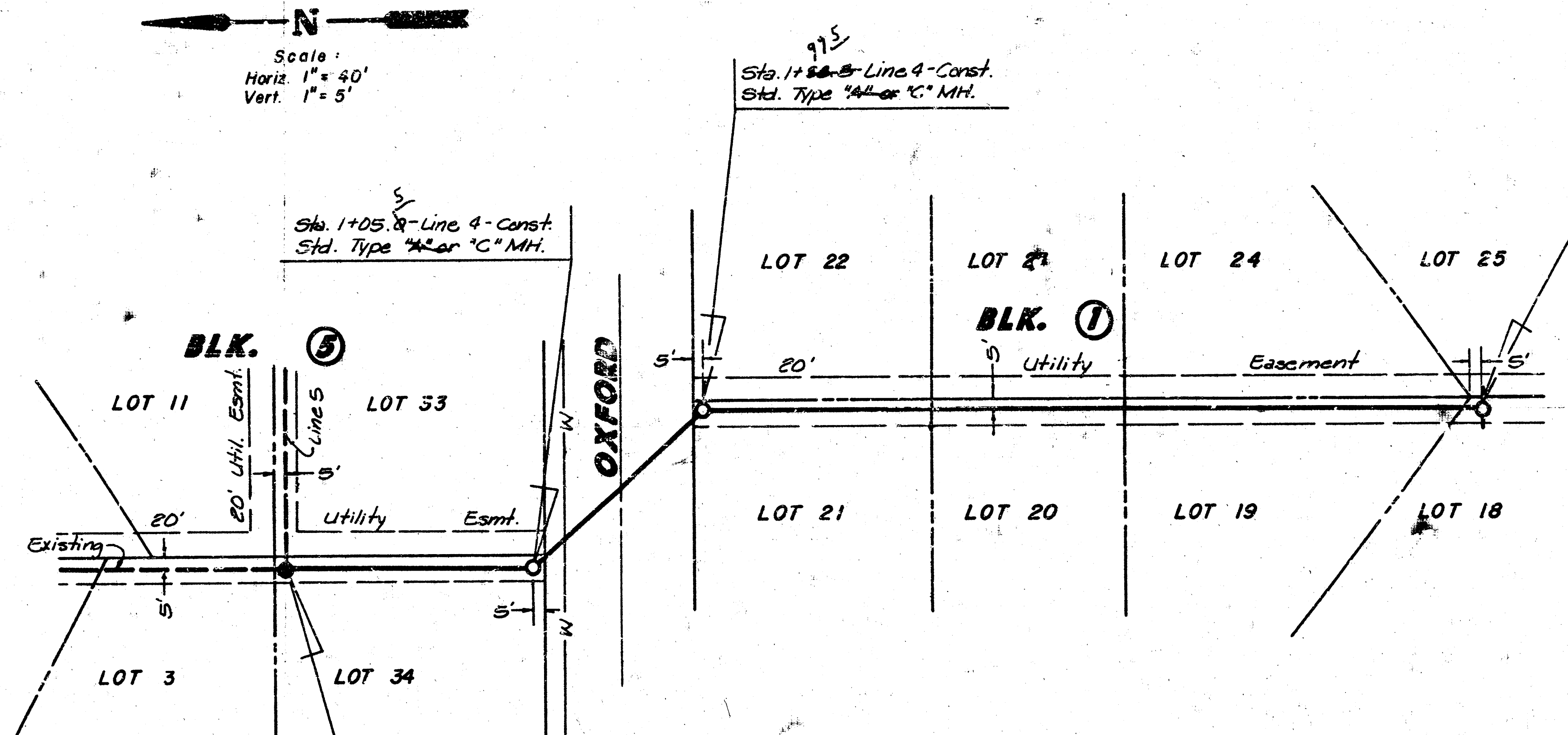
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Horiz. 1" = 40'
Vert. 1" = 5'

As Built
g88
10.83



WATERFORD NORTH
LATERAL 26, MAIN 7, SAN. SEWER NO. 23
468-76-245-81112 -000-000-001

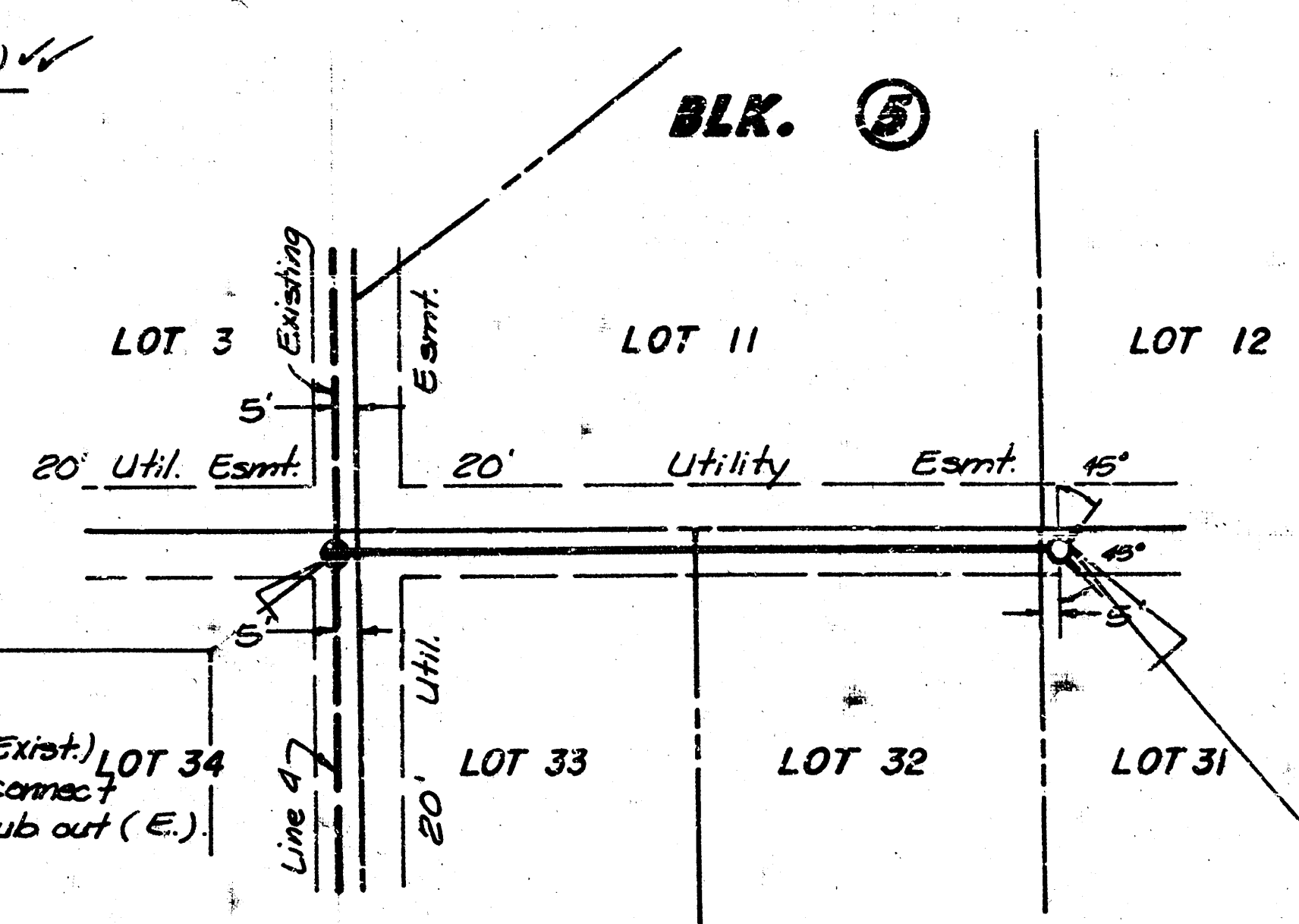
Scale:
Horiz. 1" = 40'
Vert. 1" = 5'



Sta. 5+20.5-Line 4-Const.
Std. Type "A" or "C" M.H.
w/ 4" stub out (S.E.) ✓

Sta. 0+00.0-Line 5=
Sta. 0+00.0-Line 4=
Sta. 7+59.5-Line 7(Exist.)
Remove plug and connect
with existing 8" stub out (E.)

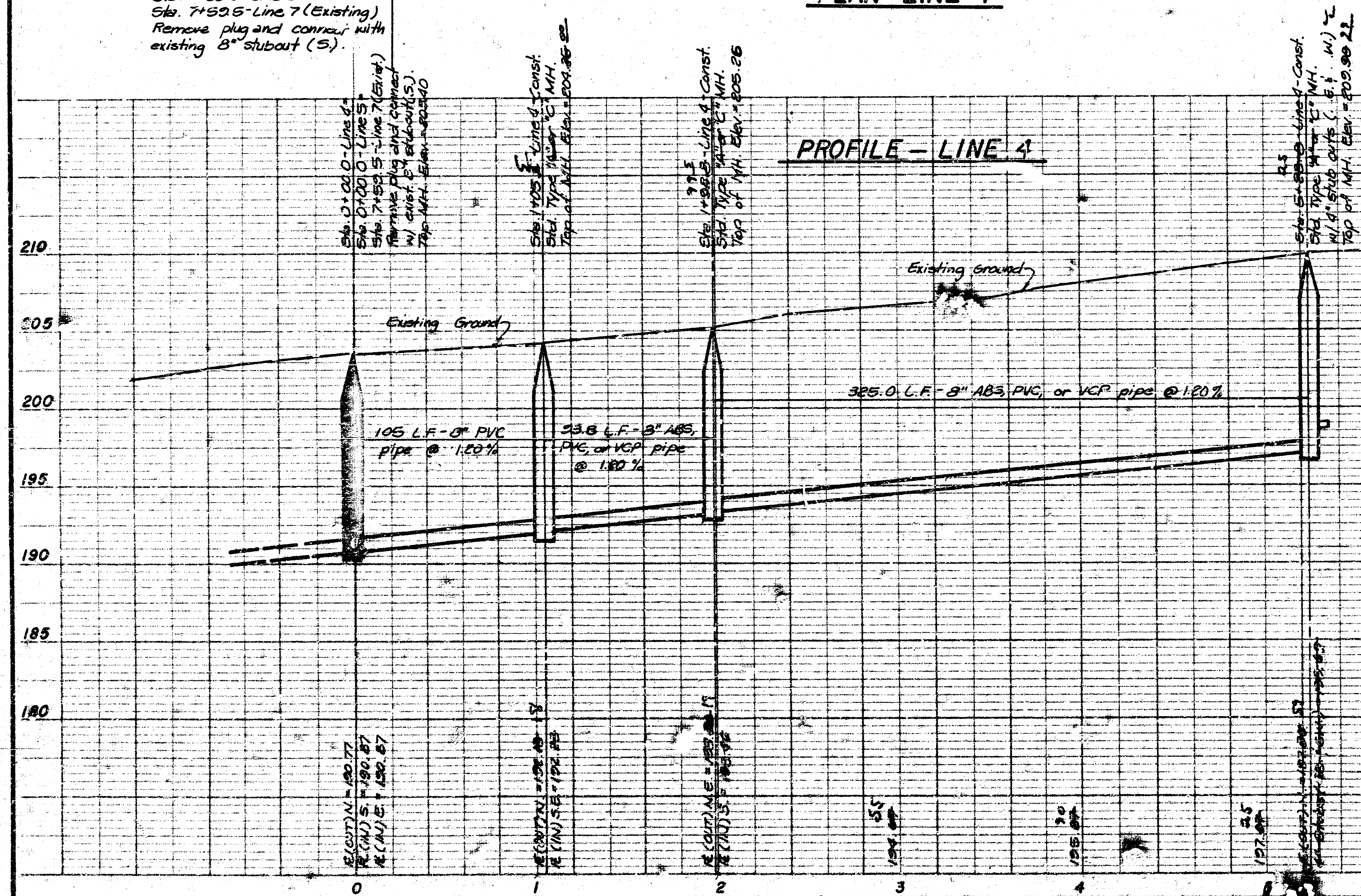
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Vert. 1" = 5'



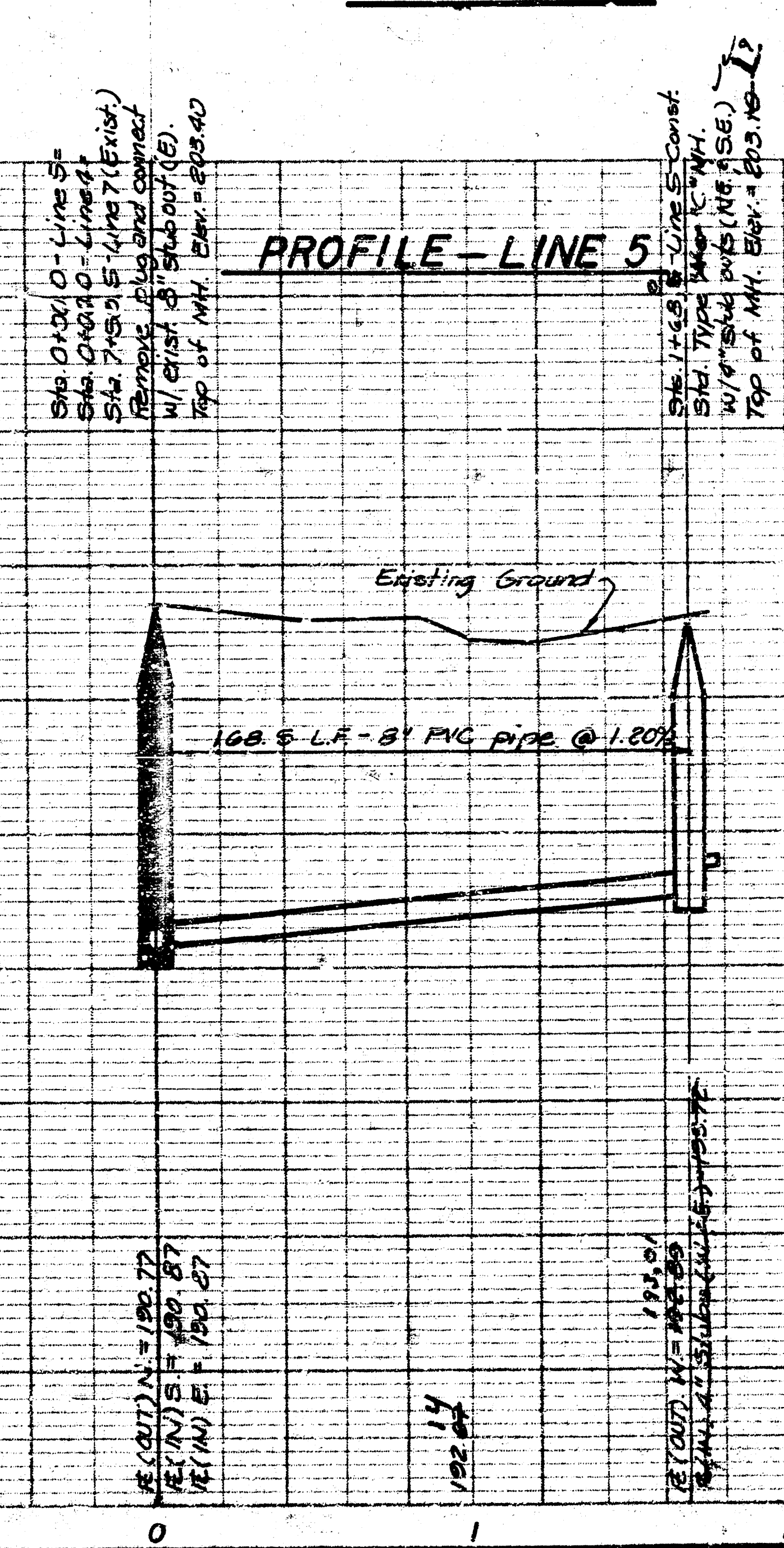
Sta. 1+60.8-Line 5-Const.
Std. Type "A" or "C" M.H.
w/ 4" stub out (N.E. & S.E.) ✓

As Built
J.L.L.
10-83

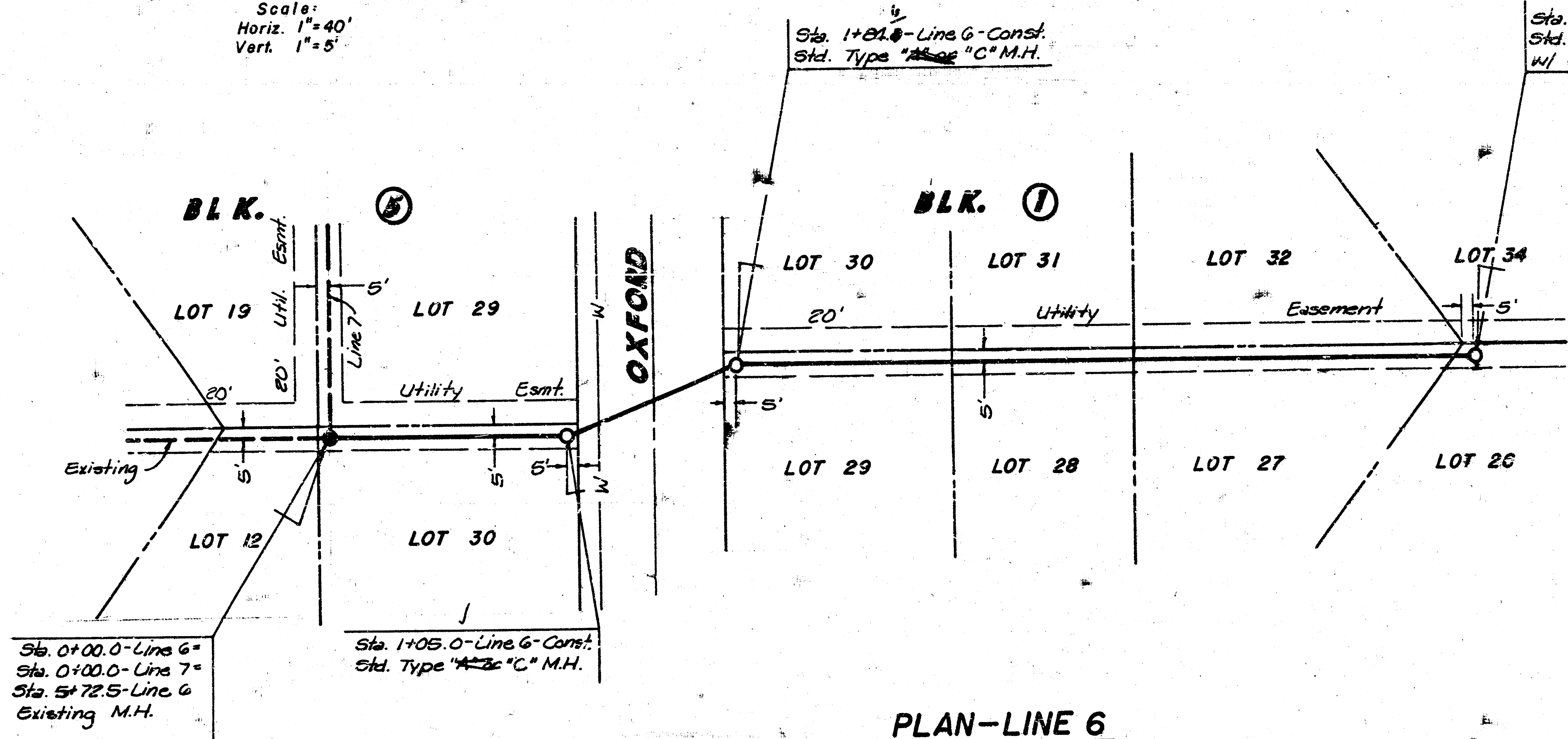
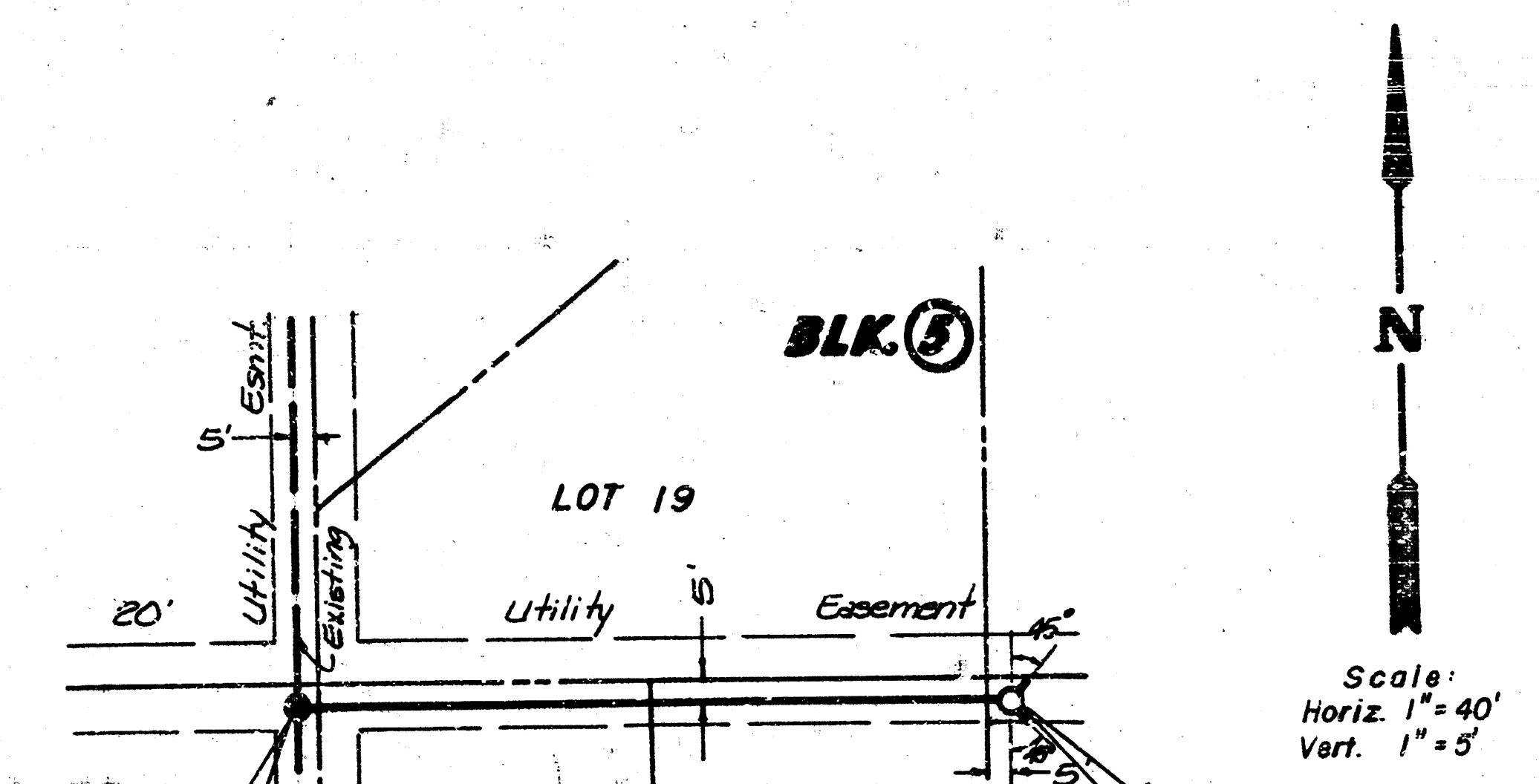
PROFILE - LINE 4



PROFILE - LINE 5

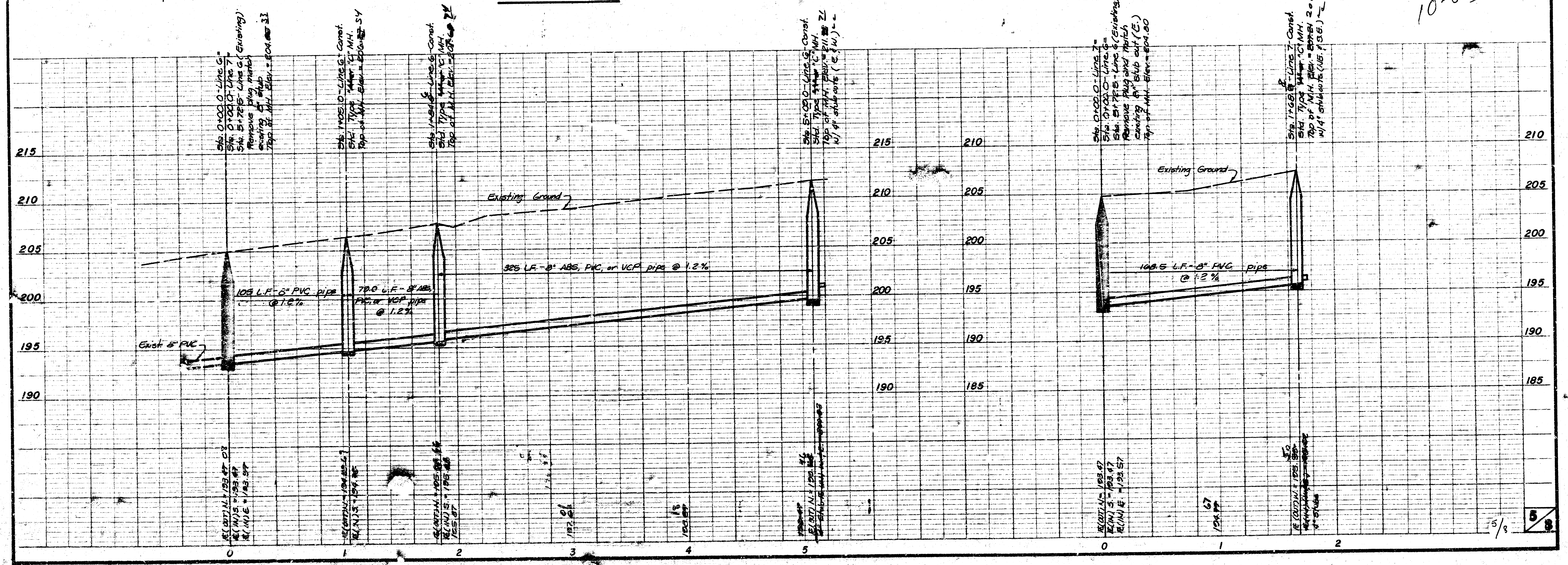


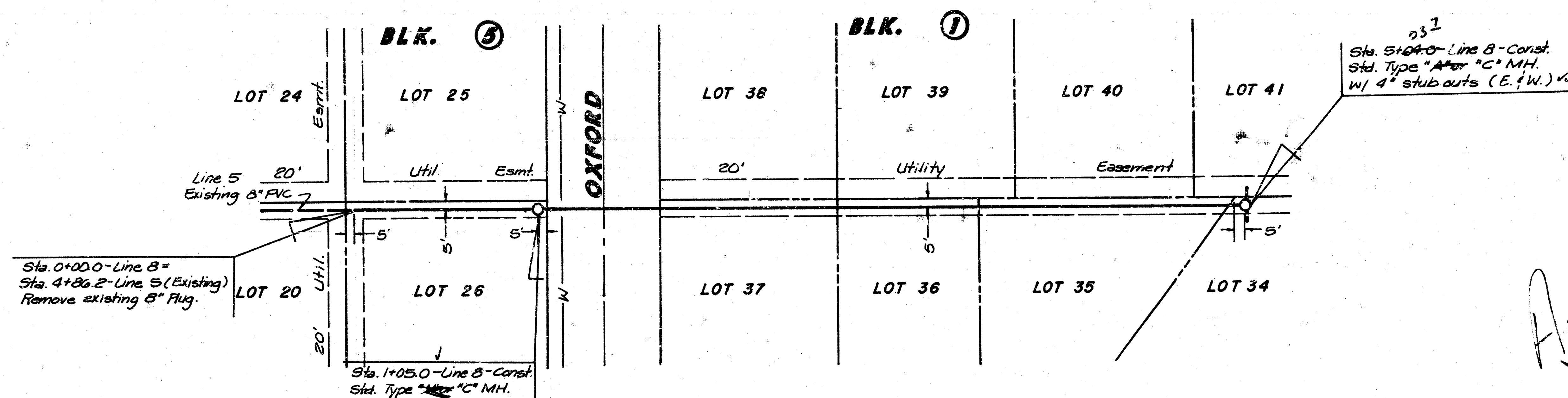
Scale:
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Vert. 1"=5'



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

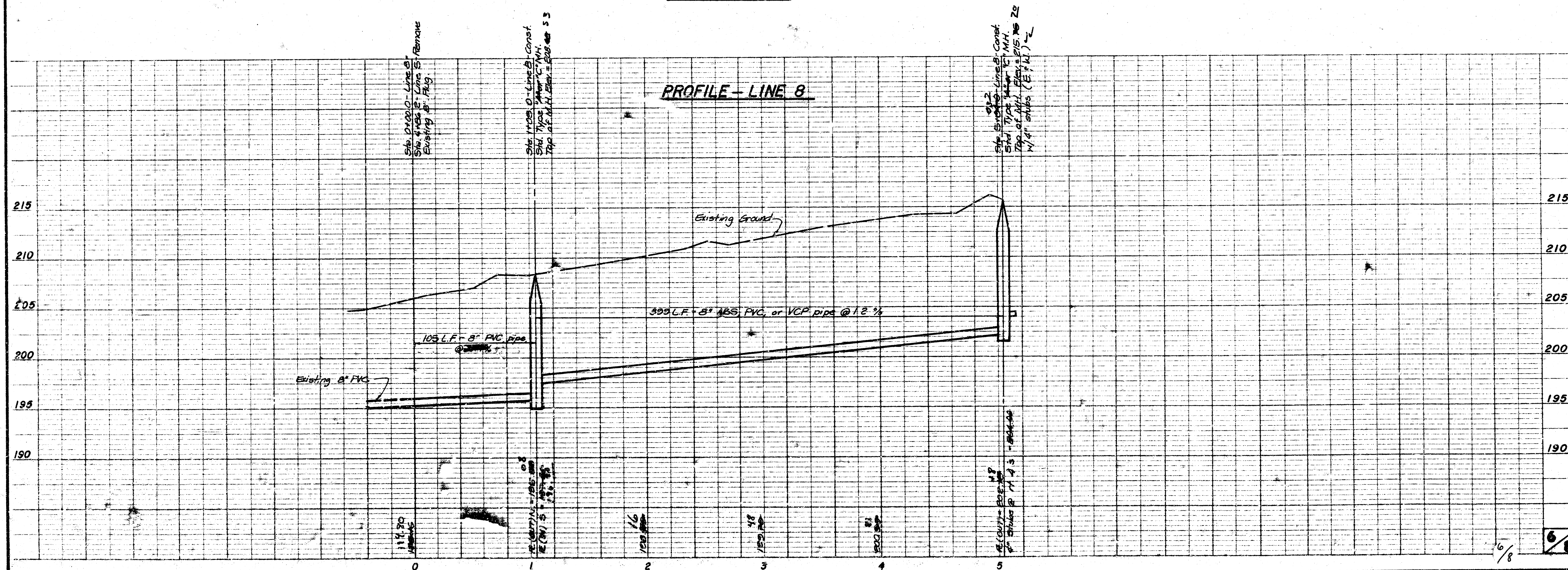
As Built
JSS
10-83





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

PLAN - LINE 8



As Built
 10-83

FINAL PLAT OF WATERFORD NORTH

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

I, Kenneth H. Bengtson, a Civil Engineer in Kansas, do hereby certify that I have been in responsible charge of surveying and platting of "Waterford North" an addition to Wichita, Sedgwick County, Kansas, into lots, blocks, streets, floodway, and reserve, the same being accurately set forth in the accompanying plat and described as follows:

Beginning at the center of Section 6, Township 27 South, Range 2 east of the 6th P.M.; thence east along the south line of the northeast quarter of said Section bearing S 89° 20' 11" E, 2655.08 feet; thence N 00° 59' 49" W, 360.00 feet; thence N 55° 49' 18" E, 524.43 feet; thence N 89° 05' 38" E, 100.00 feet to the west right of way line of Rock Road; thence along said west right of way line of Rock Road bearing N 00° 54' 22" W, 150.00 feet; thence N 89° 21' 56" W, 81.77 feet; thence N 74° 57' 52" W, 2619.17 feet; thence S 00° 54' 52" E, 1529.31 feet to the point of beginning, containing 52.39 acres, more or less.

I hereby certify that the details on this plat are correct to the best of my knowledge and belief this 22 day of October, 1980.

By: *Kenneth H. Bengtson*
Kenneth H. Bengtson
VAN DOREN-HAZARD-STALLINGS
Architects-Planners-Engineers
200 North Rock Road, Suite 250
Wichita, Kansas 67206

Know all men by these presents, that we the undersigned property owners of the land as here set forth in the Engineer's certificate, have caused the same to be surveyed and platted into lots, blocks, streets, floodway, and reserves, the same to be known as "Waterford North", 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 storm sewers are hereby granted. All shutters rights of access over and across the west line of Rock Road are hereby granted to the City of Wichita, provided, however, that the subdivision shall have access to Rock Road at the location shown on the accompanying plat. The floodway shall be the responsibility of the owners of the property in the subdivision until such time as the governing body exercising jurisdiction elects to assume the responsibility for maintenance and improvement of the drainage, provided further, that no building shall be constructed on or within said floodway, nor shall any fill, change of grade, creation of channel or other work be carried on without the permission of the Wichita-Sedgwick County Flood Control Office or their successors in office. The reserve is platted for sidewalks, open space, recreation and buffer zone, and shall be owned and maintained by the owners of the lots within the subdivision.

Wichita Development Company

By: *Robert R. Fox*
Robert R. Fox
Attorney in Fact for Wichita Development Company

We the Citibank, N.A., New York City, New York, mortgagees on the above described property do hereby consent to the plat of "Waterford North".

The Citibank, N.A., New York, New York

By: *Robert R. Fox*
Robert R. Fox
Attorney in Fact for Citibank, N.A.

LEGEND

- Existing Sanitary Sewer
- Proposed Sanitary Sewer
- Existing Manhole
- Proposed Manhole

This plat of "Waterford North" has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Planning Commission, Wichita, Kansas.

Dated this 9th day of October, 1980.

Wichita-Sedgwick County Metropolitan Area Planning Commission

James L. Gardner II
James L. Gardner II, Chairman
Robert A. Lakin
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 27 day of October, 1980.

Robert R. Fox
Robert R. Fox, Mayor
James L. Gardner II
James L. Gardner II, City Clerk

This plat approved and all dedications shown hereon, if any, accepted by the Board of County Commissioners of Sedgwick County, Kansas this 27 day of October, 1980.

Robert R. Fox
Robert R. Fox, Chairman
Tom Scott
Tom Scott, Commissioner

Donald E. Gragg
Donald E. Gragg, Commissioner

Attest: *Donna K. White*
Donna K. White, County Clerk

Entered on transfer record this 6 day of January, 1981.

Donna K. White
Donna K. White, County Clerk

STATE OF KANSAS

COUNTY OF SEDGWICK

This is to certify that this instrument was filed for record in the Register of Deeds Office at 3:10 P.M. on the 6th day of January, 1981.

Bette M. Curt
Bette M. Curt, Register of Deeds

Pat Kettler
Pat Kettler, Deputy

State of Kansas,

County of Sedgwick,

Be it remembered that on this 22nd day of October, 1980 before me a Notary Public in and for said State and County, came the Citibank, N.A., New York City, New York, by Robert R. Fox, Attorney in Fact for Citibank, N.A., 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.

Carolyn R. Owen
Carolyn R. Owen, Notary Public
My Appointment Expires: *1981*

State of Kansas,

County of Sedgwick,

Be it remembered that on this 22nd day of October, 1980 before me, a Notary Public in and for said State and County, came the Wichita Development Company by Robert R. Fox, Attorney in Fact for Wichita Development Company, 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.

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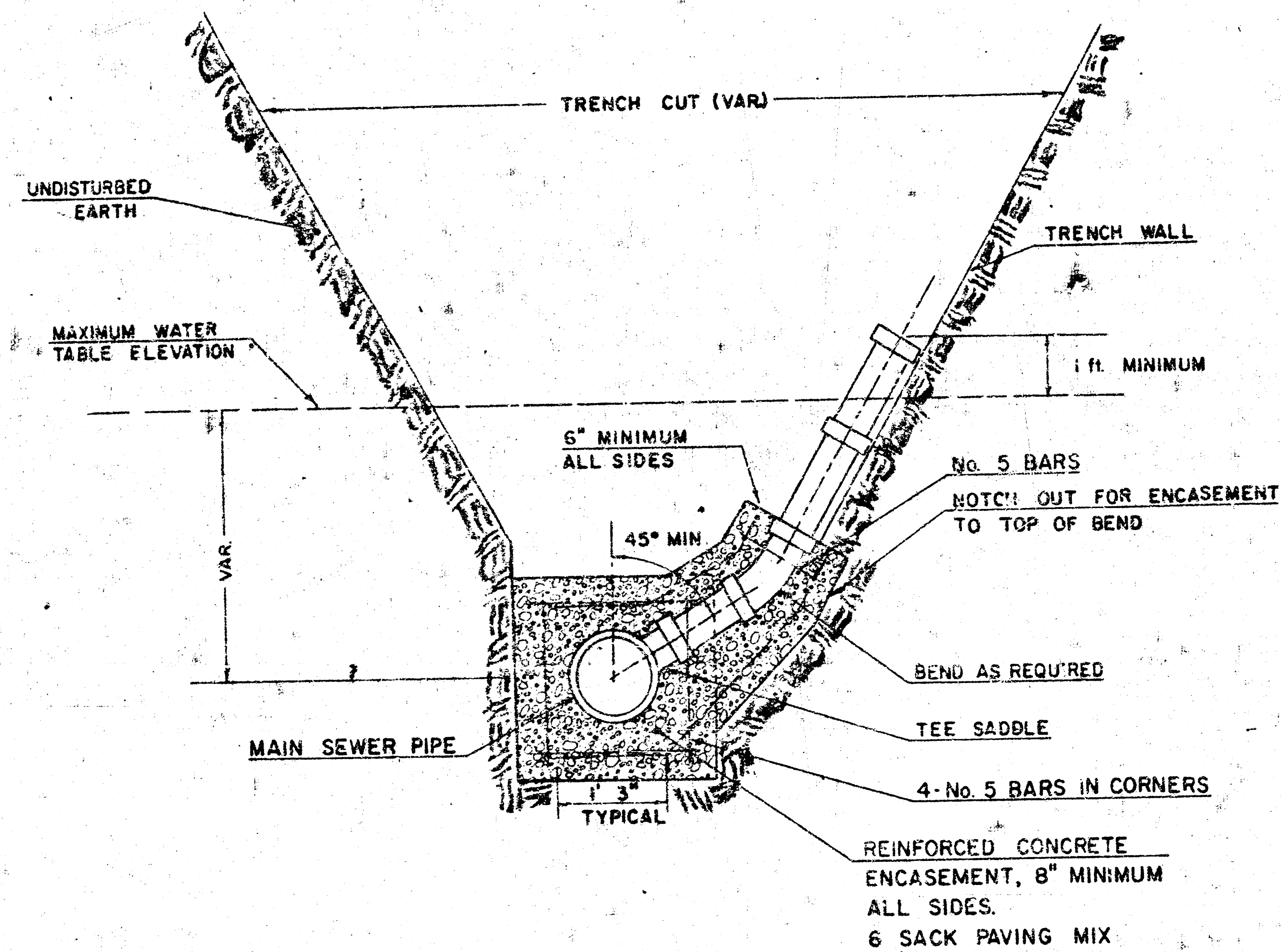
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Carolyn R. Owen
Carolyn R. Owen, Notary Public
My Appointment Expires: *1981*

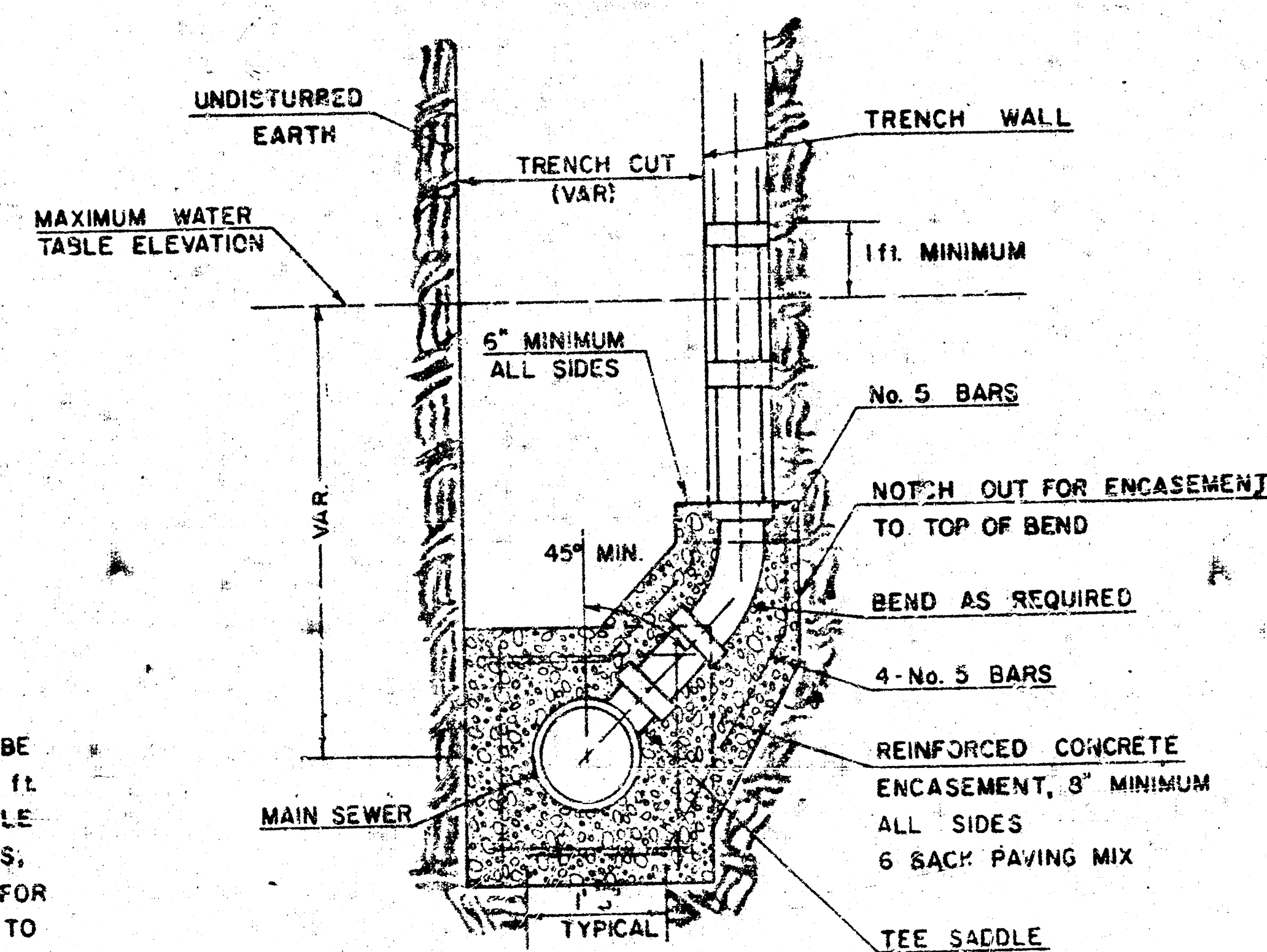
VERTICAL RISER DETAIL ADOPTED AS STANDARD DESIGN BY

CITY OF WICHITA, KANSAS

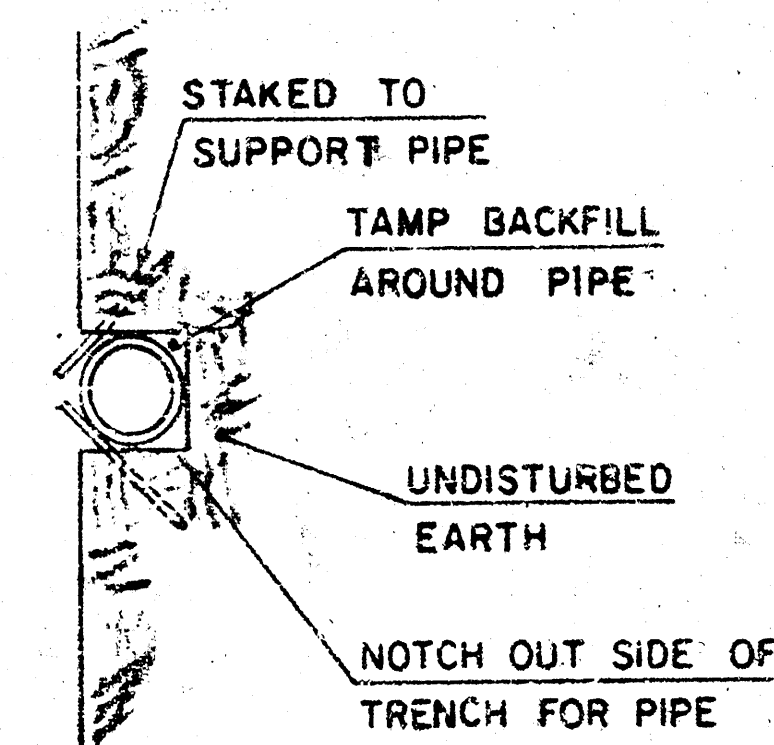


TYPICAL RISER FOR SLOPING TRENCH WALLS

NOTE:
TOP OF 4" OR 6" RISER PIPE TO BE EXTENDED TO AN ELEVATION OF 1 ft. MINIMUM ABOVE THE WATER TABLE ELEVATION, WHEN WATER EXISTS, OR TO AN ELEVATION SUITABLE FOR PROVIDING SERVICE TO THE LOT TO BE SERVED AND THEN PLUGGED.



TYPICAL RISER FOR VERTICAL TRENCH WALLS



GENERAL NOTE:
RISERS SHALL BE INSTALLED TO SERVE ALL LOTS OR TRACTS WHEN THE MAIN SEWER LINE IS BELOW THE WATER TABLE. RISERS SHALL ALSO BE INSTALLED TO SERVE ALL LOTS AND TRACTS WHEN THE MAIN SEWER LINE DEPTH IS SUCH THAT WOULD MAKE THE BUILDING SEWER LINE CONNECTION DIFFICULT. INSTALLATION OF RISERS BECAUSE OF MAIN LINE SEWER DEPTH SHALL BE AS APPROVED BY THE ENGINEER. THE LOCATION OF RISERS TO SERVE DEVELOPED PROPERTY SHALL BE APPROVED BY THE PROPERTY OWNER. PIPE STUDS SHALL BE INSTALLED IN MANHOLES WHERE LOCATIONS OF MANHOLES WILL PROVIDE SATISFACTORY SERVICE CONNECTIONS AS DETERMINED BY THE FIELD ENGINEER. THE VERTICAL DISTANCE BETWEEN THE FLOW LINE OF THE MANHOLE PIPE STUD AND THE FLOW LINE OF THE MAIN SEWER LINE SHALL NOT EXCEED 1 FT. MANHOLE PIPE STUDS SHALL NOT BE SET BELOW AN ELEVATION WHICH WILL PERMIT THE TOP OF THE INSIDE OF THE STUD TO MATCH THE TOP OF THE INSIDE OF THE MAIN SEWER PIPE. PIPE STUDS AND RISERS INSTALLED TO SERVE COMMERCIAL OR INDUSTRIAL PROPERTY SHALL BE 6 INCH. PIPE STUDS AND RISERS INSTALLED TO SERVE RESIDENTIAL PROPERTY MAY BE EITHER 6 INCH OR 4 INCH DEPENDING UPON THE AVAILABLE GRADE AND THE SIZE OF THE LOT AS DETERMINED BY THE FIELD ENGINEER. ENCASEMENT OF VITRIFIED CLAY MAIN SEWER PIPE SHALL EXTEND TO THE FIRST JOINT IN THE MAIN SEWER CLAY PIPE ON EACH SIDE OF THE RISER INSTALLATION. ENCASEMENT OF A.D.S. COMPOSITE OR P.V.C. MAIN SEWER PIPE SHALL EXTEND A MINIMUM OF 3 FT. ON BOTH SIDES OF THE CENTERLINE OF THE RISER. FOUR INCH AND SIX INCH RISER PIPE SHALL BE ENCASED WITH CONCRETE TO THE TOP OF THE BEND AS INDICATED IN THE DRAWINGS. FOUR INCH AND SIX INCH CLAY PIPE USED FOR RISERS SHALL BE EXTRA STRENGTH PIPE CONFORMING TO THE REQUIREMENTS OF THE LATEST REVISION OF A.S.T.M. DESIGNATION C700 WITH COMPRESSION JOINTS AS SPECIFIED FOR CLAY PIPE IN THE STANDARD SPECIFICATIONS. FOUR INCH AND SIX INCH A.D.S. OR P.V.C. PIPE SHALL BE PIPE APPROVED FOR USE IN THE CITY BY THE CHIEF PLUMBING AND MECHANICAL INSPECTOR FOR THE CENTRAL INSPECTION DIVISION OF THE DEPARTMENT OF HOUSING AND ECONOMIC DEVELOPMENT. LOCATIONS OF THE ENDS OF THE RISERS SHALL BE MARKED BY FASTENING GREEN COLORED PLASTIC TAPE TO THE END OF THE RISER WHICH SHALL BE EXTENDED TO THE GROUND SURFACE AS THE EXCAVATION IS BACKFILLED SUCH THAT THE COLORED TAPE WILL BE VISIBLE WHEN THE PROJECT IS COMPLETED. THE ENDS OF THE RISER PIPE AND MANHOLE STUDS SHALL BE CAPPED OR PLUGGED USING FITTINGS FURNISHED BY THE MANUFACTURER OF THE PIPE. CONTRACTOR'S METHODS FOR SUPPORTING AND BACKFILLING RISER PIPE SHALL BE APPROVED BY THE ENGINEER.

FURNISHING AND INSTALLING RISERS SHALL BE PAID FOR AT THE UNIT PRICES BID FOR 4" PIPE, 6" PIPE AND REINFORCED CONCRETE ENCASEMENT FOR THE VARIOUS MAIN SEWER PIPE SIZES INDICATED; WHICH PRICE SHALL INCLUDE ALL COSTS FOR COMPLETION OF THIS ITEM INCLUDING SADDLES, BENDS, CONCRETE, REINFORCING STEEL, CAPS OR PLUGS, AND ALL OTHER NECESSARY MATERIALS OR WORK. CONCRETE ENCASEMENT OF THE RISER PIPE TO THE TOP OF THE BEND AS SHOWN BY THE DRAWINGS WILL NOT BE PAID FOR DIRECTLY AND THE COST FOR THIS WORK SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER ITEMS OF WORK.

THE PROJECT INSPECTOR SHALL REPORT ON INSPECTOR CARDS THE LOCATION OF ALL RISERS CONSTRUCTED AS MEASURED FROM THE NEAREST MANHOLE, THE DIRECTION OF SERVICE, THE ELEVATION OF THE TOP OF THE RISER, AND THE PAY QUANTITIES INVOLVED. THE PROJECT INSPECTOR SHALL ALSO REPORT ON INSPECTOR CARDS THE LOCATION, DIRECTION OF SERVICE, AND SIZE OF ALL STUDS INSTALLED IN MANHOLES.



MID-KANSAS ENGINEERING CONSULTANTS - PA
2001 S. KANSAS ROAD
WICHITA, KANSAS 67206
516-841-1188