



CITY OF ANN ARBOR ENGINEERING

2022 SEWER LINING PROJECT

BID No. ITB 4704, FILE No. 2022011

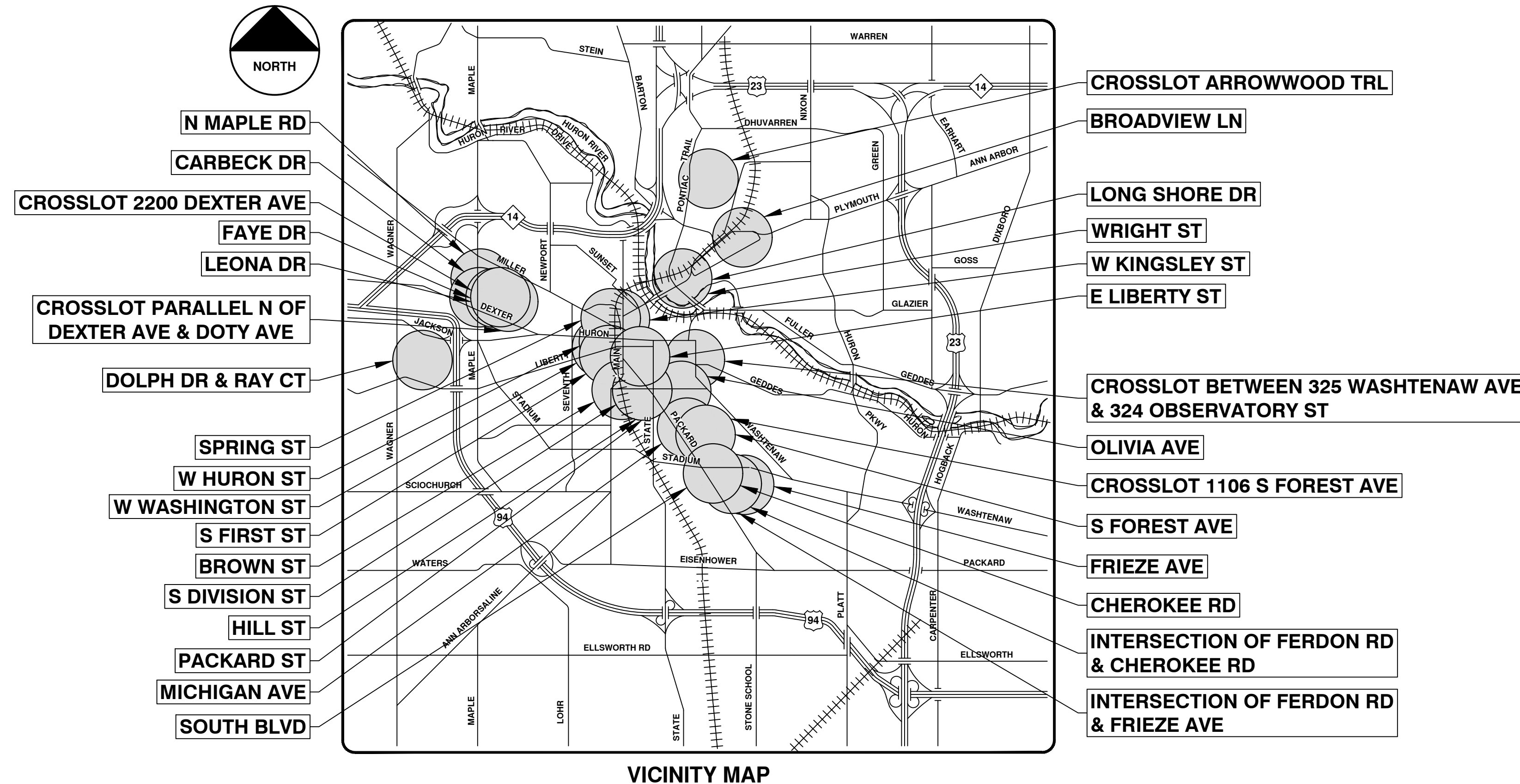
NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

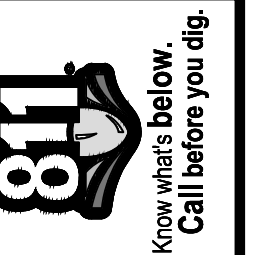
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
1	OVERALL SANITARY COVER SHEET
2 - 4	BROADVIEW LN
5 - 7	BROWN ST
8 - 10	CARBECK DR
11 - 13	CHEROKEE RD
14 - 16	CROSSLOT 1106 S FOREST AVE
17 - 19	CROSSLOT 2200 DEXTER AVE
20 - 23	CROSSLOT PARALLEL N OF DEXTER AVE & DOTY AVE
24 - 26	CROSSLOT ARROWWOOD TRL
27 - 29	DOLPH DR & RAY CT
30 - 32	E LIBERTY ST
33 - 35	FAYE DR
36 - 38	INTERSECTION OF FERDON RD & CHEROKEE RD
39 - 41	INTERSECTION OF FERDON RD & FRIEZE AVE
42 - 45	FRIEZE AVE
46 - 49	HILL ST
50 - 52	LEONA DR
53 - 55	LONG SHORE DR
56 - 58	MICHIGAN AVE
59 - 62	N MAPLE RD
63 - 65	OLIVIA AVE
66 - 68	PACKARD ST
69 - 71	S DIVISION ST
72 - 74	S FIRST ST
75 - 77	S FOREST AVE
78 - 82	SOUTH BLVD
83 - 85	SPRING ST
86 - 87	CROSSLOT BETWEEN 325 WASHTENAW AVE & 324 OBSERVATORY ST
88 - 93	W HURON ST
94 - 96	W KINGSLEY ST
97 - 99	WRIGHT ST
100 - 105	W WASHINGTON ST



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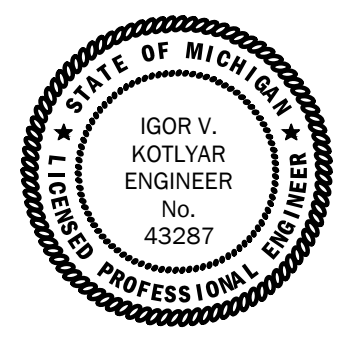
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00	BID SET	12/10/21	ARG	IK

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
734.794.4410
www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
PROJECT DESCRIPTION AND LIMITS
SCALE
DRAWING No. 2022011-1
SHEET No. 1 OF 105

PREPARED UNDER THE SUPERVISION OF
Igor V. Kotlyar
IGOR V. KOTLYAR, P.E. - MI LICENSE No. 43287
PROJECT ENGINEER
12/10/2021
DATE

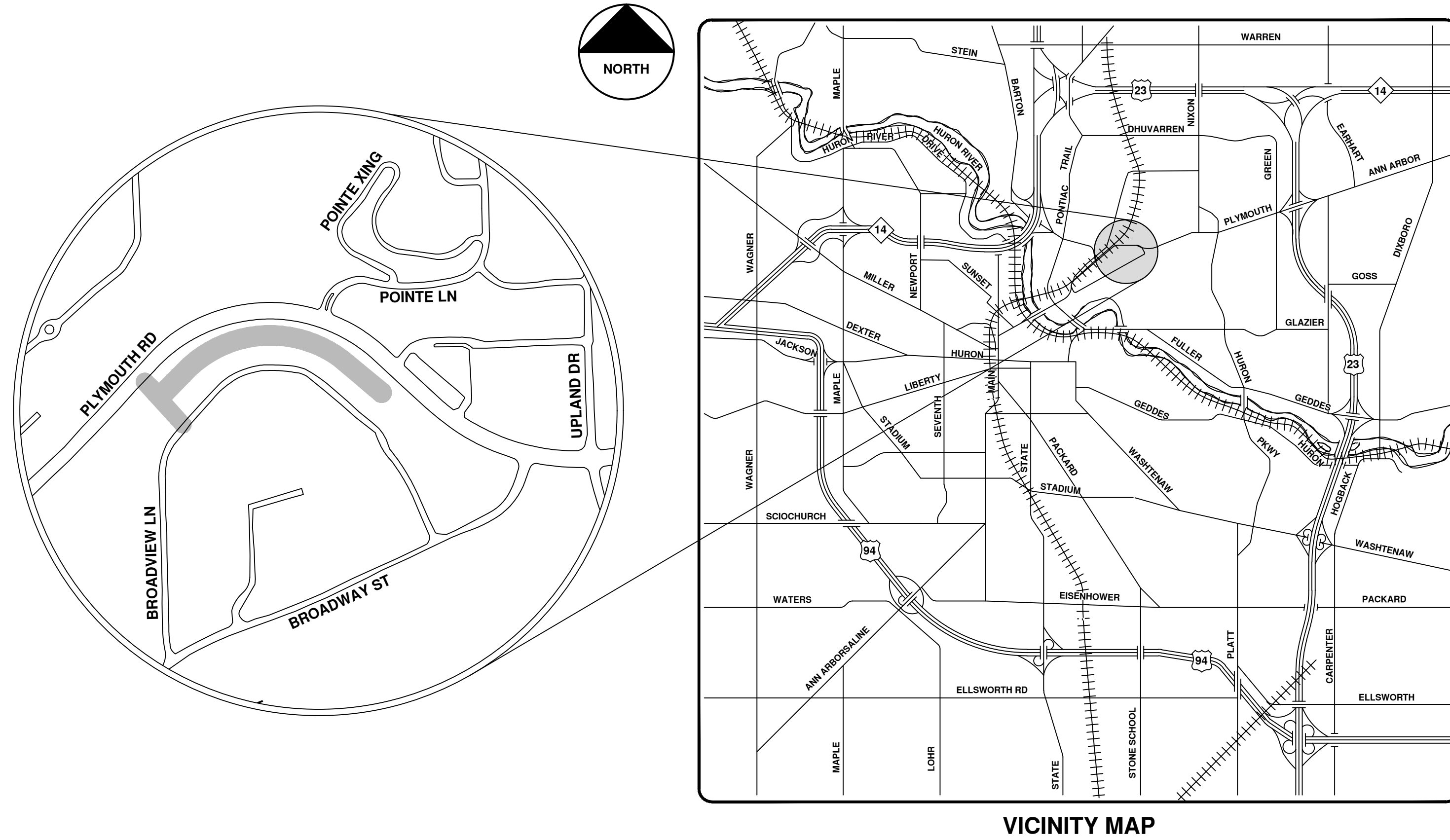


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2022 SEWER LINING PROJECT

BROADVIEW LN



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2022011-2

SHEET No.



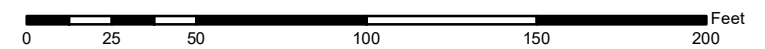
City of Ann Arbor

Broadview Ln.

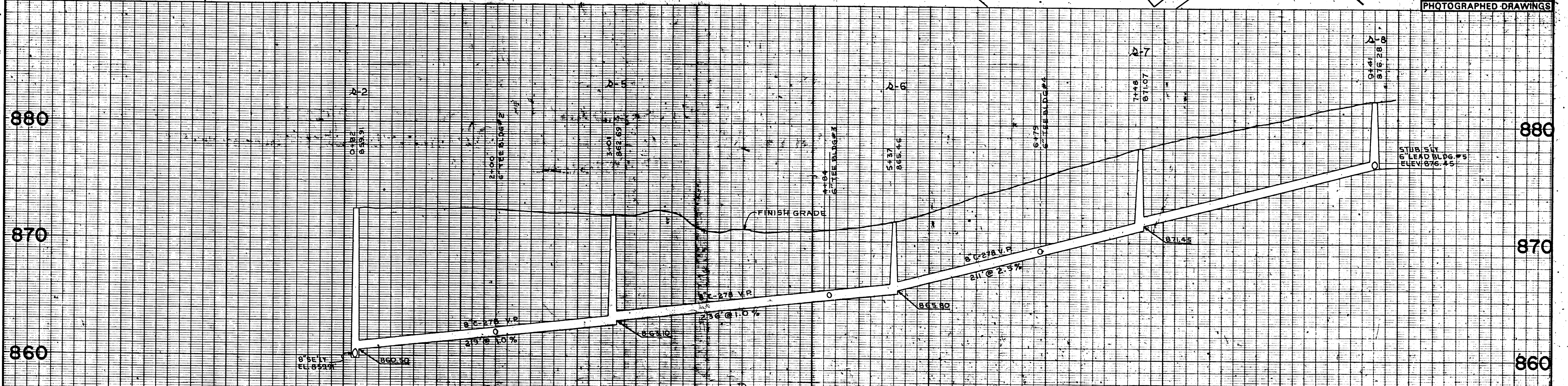
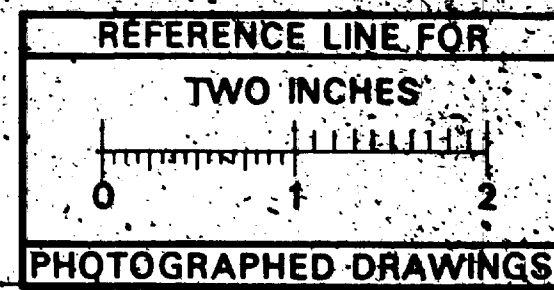
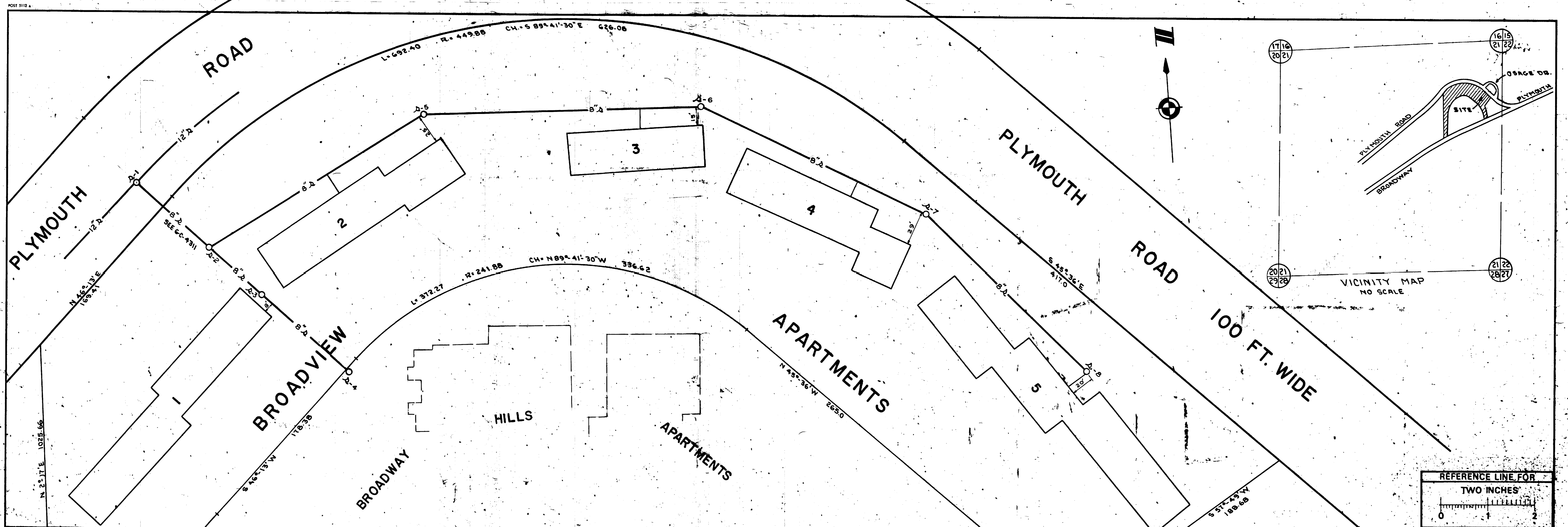


	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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Digital Status
Scanned on 12/21/05
By: LCB

DR. BY K C J	DATE	SHEET NO.
TR. BY R J J, JR.		INDEX NO. 6975
CH. BY Z G		REVISIONS

SANITARY SEWER
**CROSSLOTS
BROADVIEW
APARTMENTS**
FREDRICK A. MAMMEL
SUPERINTENDENT OF PUBLIC WORKS

PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN

LEGEND:

—○—○—	EXISTING SANITARY	—○—○—	EXISTING STORM	—G—	EXISTING GAS
—●—●—	PROPOSED SANITARY	—●—●—	PROPOSED STORM	—W—	EXISTING WATER
—	CENTER LINE	—	RIGHT PROPERTY LINE		
---	LEFT PROPERTY LINE				

REFERENCES: BENCH MARK CITY OF ANN ARBOR D.M. NO. 73 PROFILES BY ATWELL-HICKS, INC. ELEV. 896.47
DRAWINGS FIELD BOOK X.231-Pg. 80

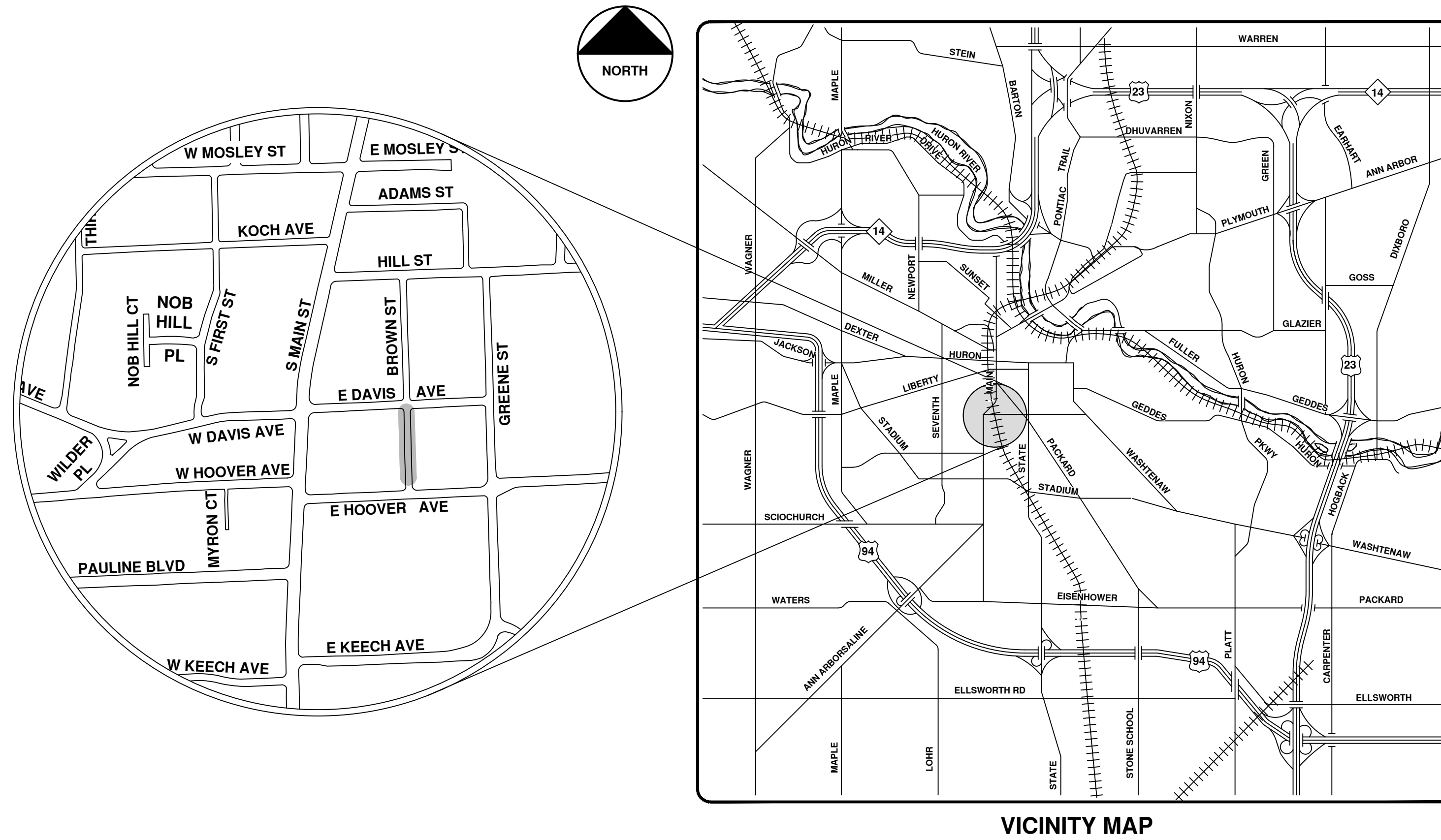
JOB	DIST.
JOB	DIST.
JOB	DIST.
JOB	DIST.

PREPARED BY ATWELL-HICKS, INC.
APPROVED BY




2022 SEWER LINING PROJECT

BROWN ST



VICINITY MAP

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811
 Know what's below.
 Call Before you dig.

REV.	DESCRIPTION	DATE	BY	CHECKED
00	BID SET	12/07/21	ARG	DRAWN
			IK	CHECKED


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE

DRAWING No. 2022011-5

SHEET No. 5 OF 105

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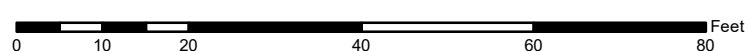


Brown St.



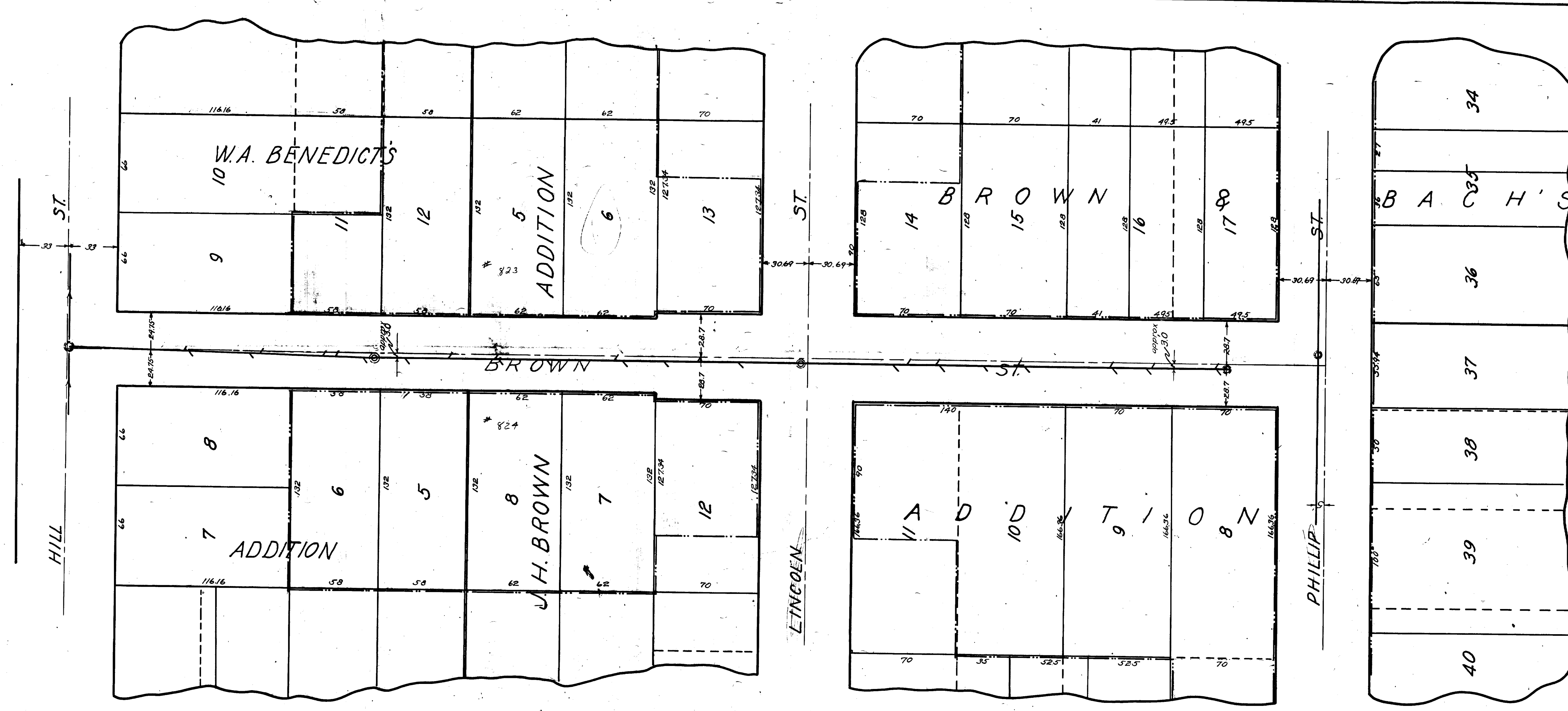
	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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City of Ann Arbor

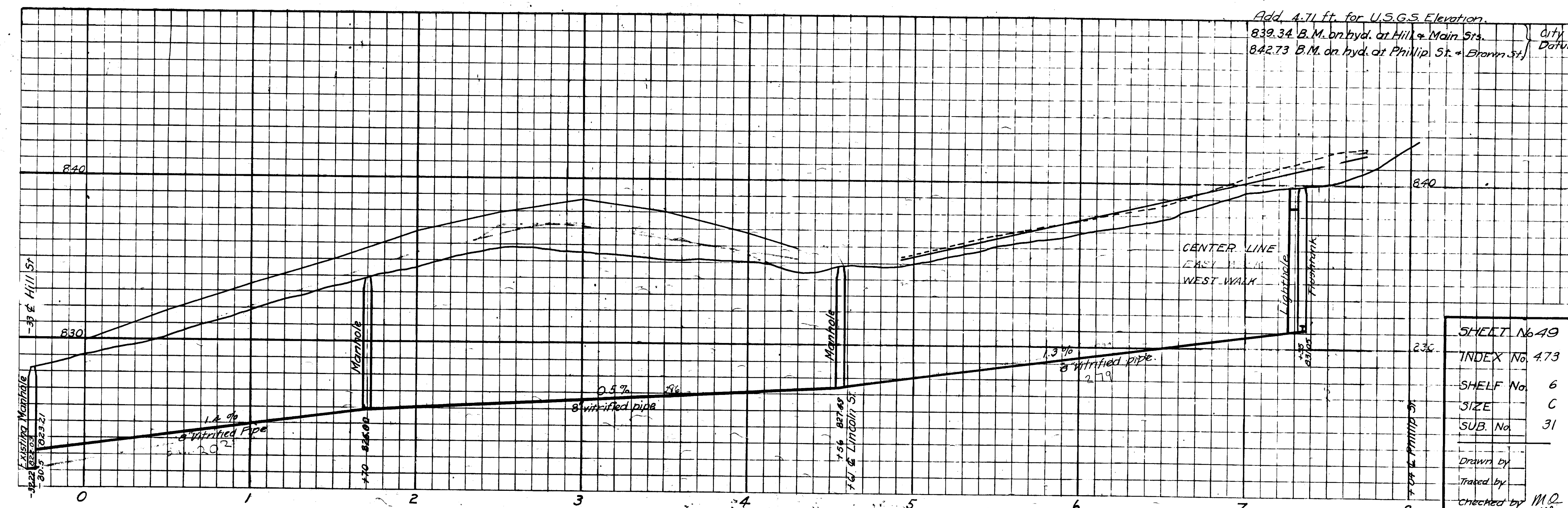
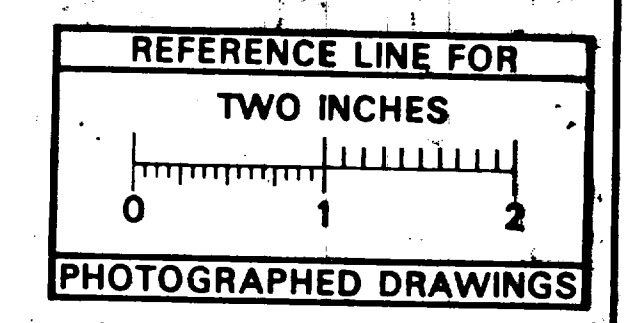


BILL OF MATERIALS FOR DIST. 60.
 2370 Lin. Ft. of 6" Tile.
 93 - Sanitary Tees 8"
 6 - 3" Branches
 7 - Manholes
 3 - Fluepipes
 3 - Lightpoles

EXCAVATING & BACKFILLING.
 10150 Lin. Ft. of under 8"
 675 " " " 9"-10"

FINAL MEASUREMENTS.

75 WEST	75 EAST	0 - M.H. @ HILL ST.
76.0	80.0	
126.6	120.6	
167.9	196.0	
175.4		
	200.6 M.H.	
231.2	227.0	
281.8	289.8	
361.4	318.8	
417.0	366.8	
	395.2	
	443.0	
	487.3 M.H. at Lincoln St.	
543.0	545.0	
572.7	574.7	
627.3	605.2	
687.9	635.1	
714.9	689.8	
757.3	712.6	
	729.3	
	761.3 L.M.	
	764.3 FT.	



Add 4.71 ft. for U.S.G.S. Elevation.
 839.34 B.M. on hyd. at Hill & Main Sts.
 842.73 B.M. on hyd. at Phillip St. & Brown St.

LEGEND

- East Walk Line
- West Walk Line
- Center Line
- Flow Line of sewer
- Sewer District Boundary

DISTRICT # 60
 Four Sheets
 Sheet 1.

Digital Status
 Scanned On: 8-25-04
 By: DGK
 Despeckled: Yes
 Vectors:
 O.C.R.:

Corrected to final measurements 12-30-1914 by SLOAN

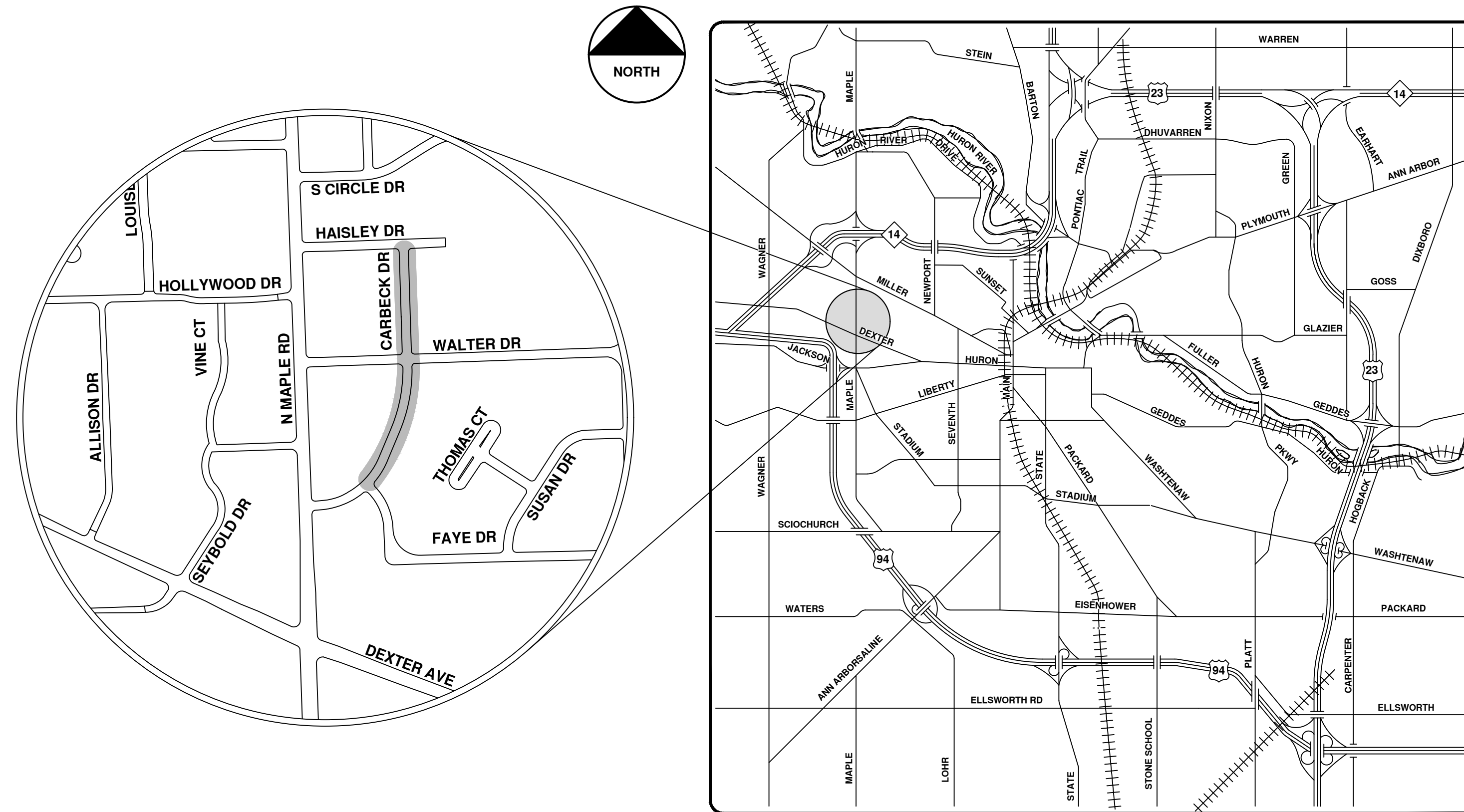
SHEET No. 49
 INDEX No. 473
 SHELF No. 6
 SIZE C
 SUB. No. 31
 Drawn by
 Traced by
 Checked by

**CITY ENGINEER'S OFFICE
 ANN ARBOR, MICH.**
 PLAN AND PROFILE
 OF
 SANITARY SEWER
 DISTRICT No. 60
BROWN STREET
 FROM HILL ST. TO HOOVER AVE.
 Manley Osgood, City Engineer
 1913-7-25
 SCALES: Plan-1"=40'; Profile-Hor. 1"=40'; Vert. 1"=4'
 One Sheet Sheet No. 1



2022 SEWER LINING PROJECT

CARBECK DR



VICINITY MAP

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2022011-8

SHEET No.

8 OF 105

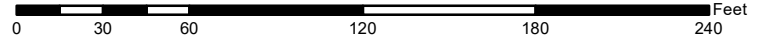


Carbeck Dr.



	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

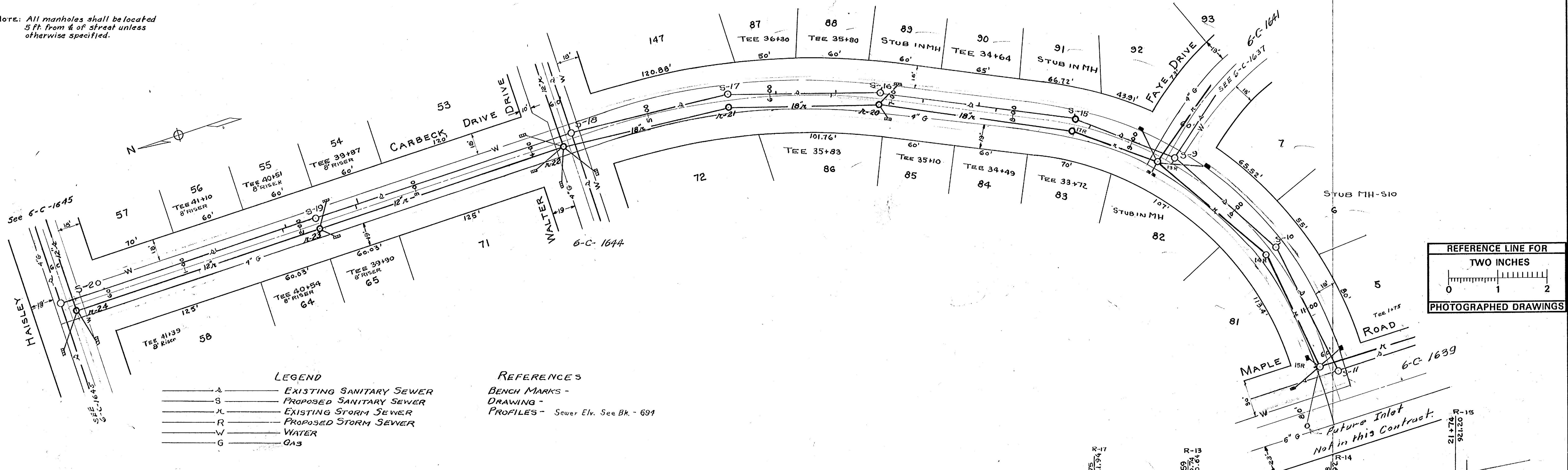
71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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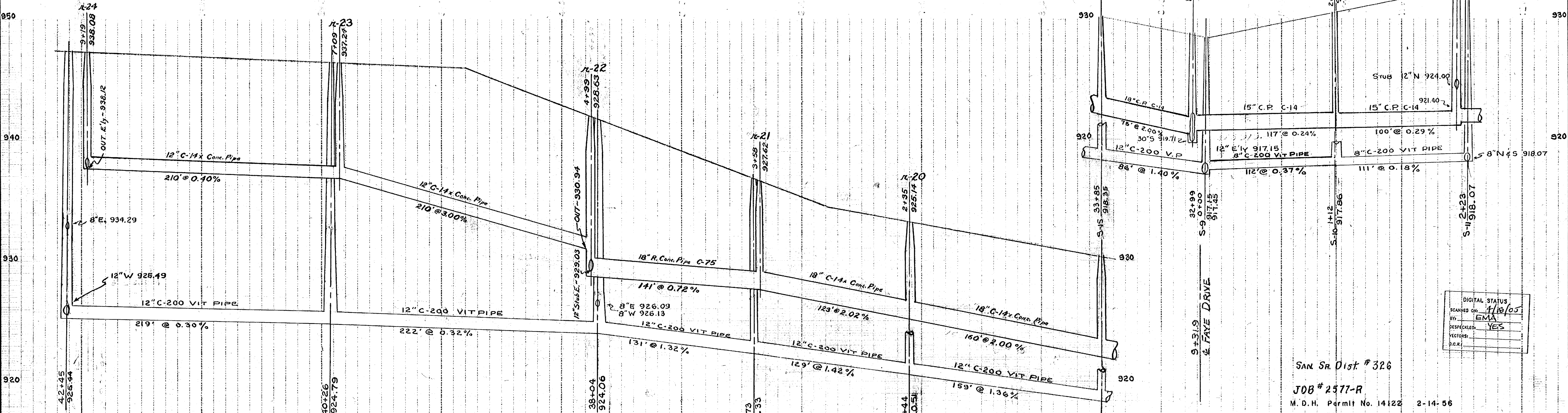
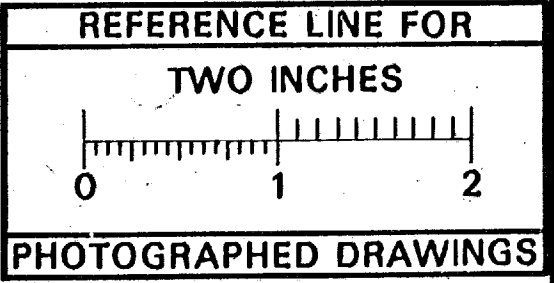
City of Ann Arbor

Note: All manholes shall be located 5 ft. from $\frac{1}{4}$ of street unless otherwise specified.



- LEGEND**
- A — EXISTING SANITARY SEWER
 - S — PROPOSED SANITARY SEWER
 - X — EXISTING STORM SEWER
 - R — PROPOSED STORM SEWER
 - W — WATER
 - G — GAS

REFERENCES
 BENCH MARKS -
 DRAWING -
 PROFILES - Sewer Elv. See Bk. - 694



DIGITAL STATUS
 SCANNED ON: 1/18/05
 BY: EMA
 DESPatched: YES
 VECTOR: YES
 DCR:

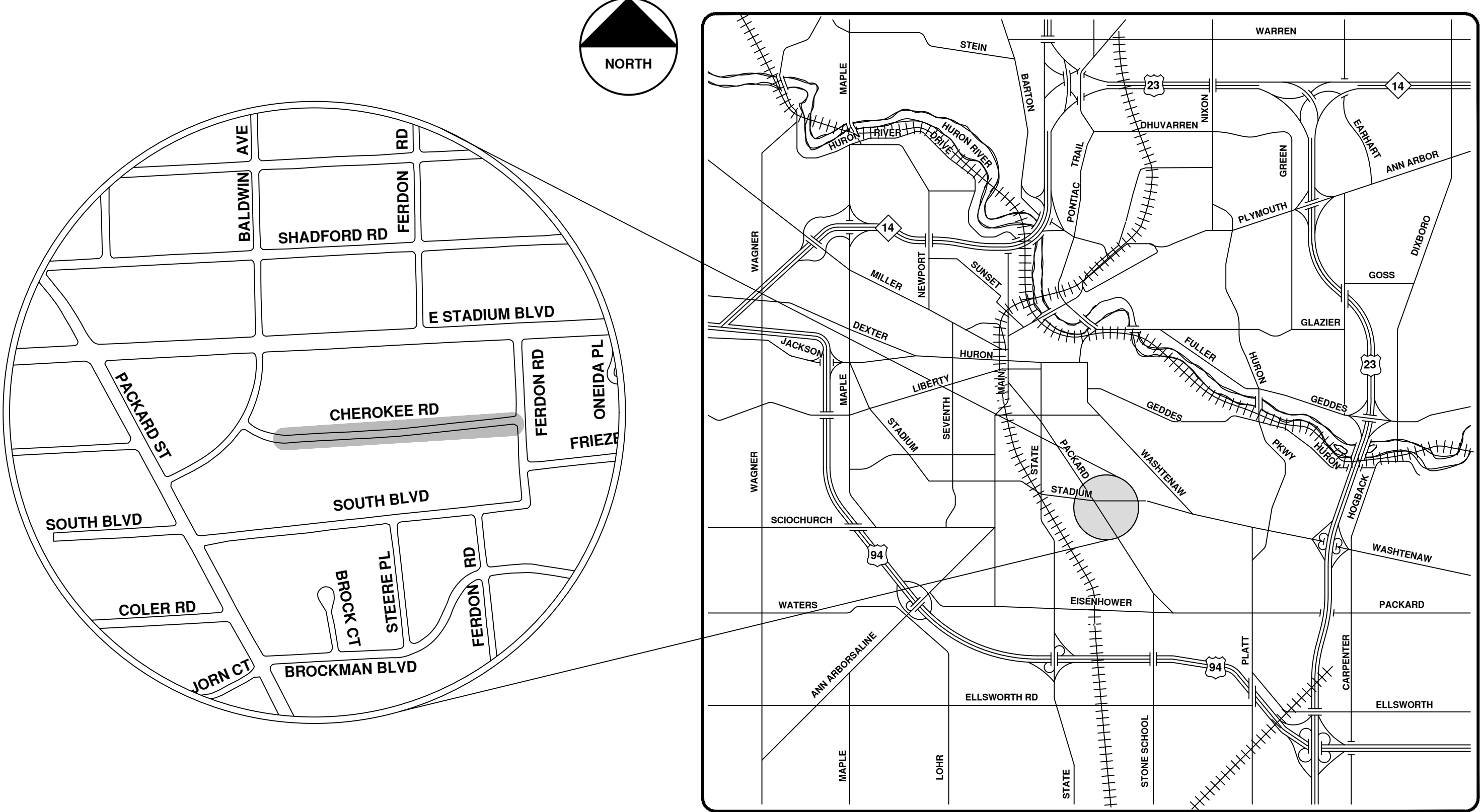
SAN. SR. DIST. # 326
 JOB # 2577-R
 M. D. H. Permit No. 14122 2-14-56

DR. BY R.W.M.	DATE 6/55	SHEET NO. INDEX NO. 3412
TR. BY R.M.H.	7/55	SHELF NO.
CH. BY H.L.	7/55	G-C-1638
REVISIONS 3/25/51 a.w.g.		
SCALE: HORIZONTAL 1"=40'		CITY ENGINEER
VERTICAL 1"=4'		
CITY ENGINEER'S OFFICE - ANN ARBOR, MICHIGAN		GEO. H. SANDENBURGH



2022 SEWER LINING PROJECT

CHEROKEE RD



VICINITY MAP

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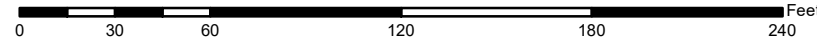


Cherokee Rd.

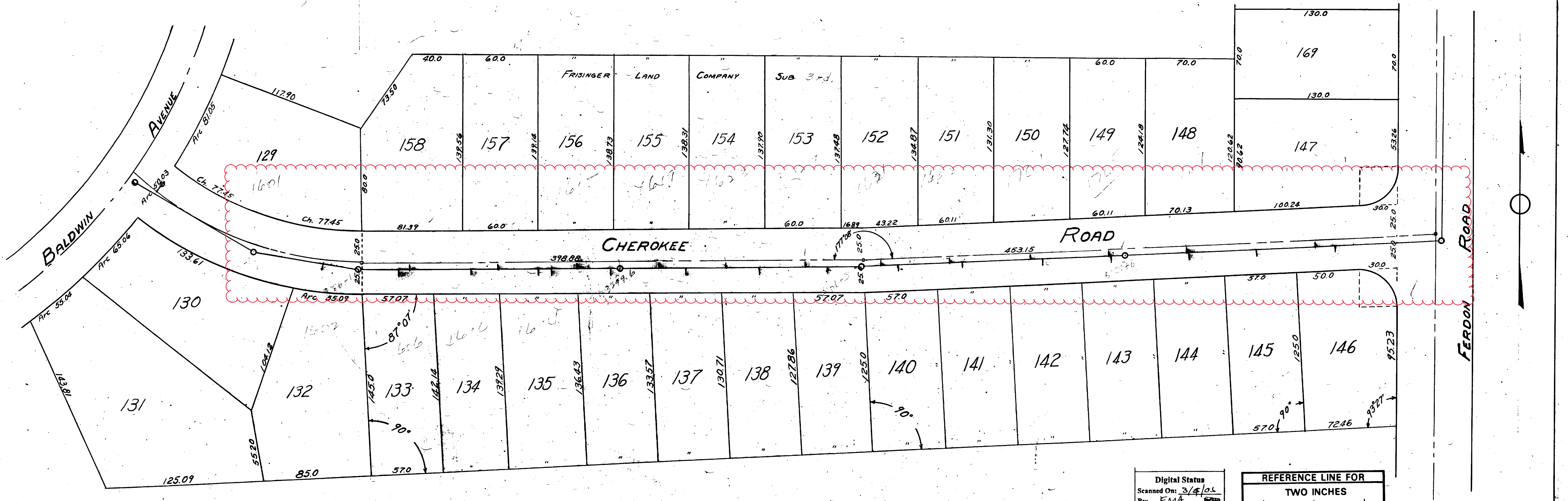


	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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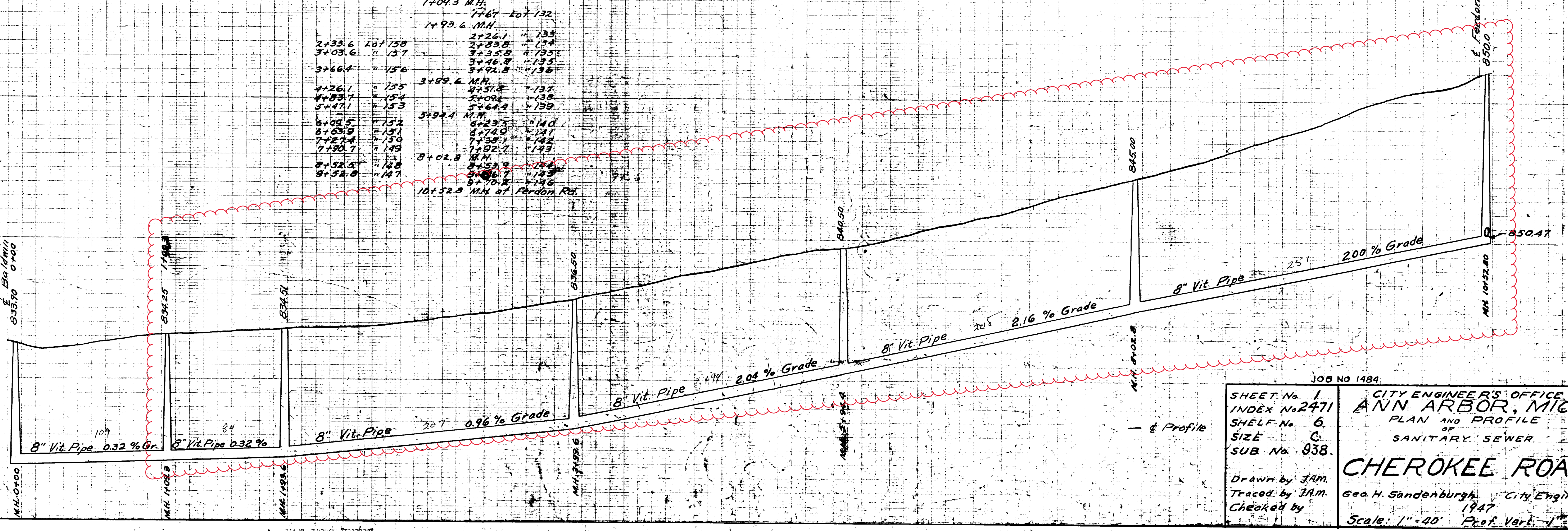


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 By: EMA
 Despeckled: Yes
 Vectors:
 O.C.R.:

REFERENCE LINE FOR
 TWO INCHES
 0 1 2
 PHOTOGRAPHED DRAWINGS

House Connections

North	South
0+00 M.H. at Baldwin Ave.	7+09.3 M.H.
1+93.6 M.H.	7+64 107 132
2+33.6 107 150	2+26.1 133
3+03.6 137	2+55.0 134
3+66.4 156	3+35.0 135
4+26.1 155	3+46.8 136
4+89.7 154	3+92.8 137
5+47.1 153	4+51.8 138
6+08.5 152	5+09.7 139
6+69.9 151	5+64.7 140
7+29.4 150	6+23.5 141
7+89.7 149	6+72.9 142
8+52.3 148	7+30.1 143
9+52.0 147	7+92.7 144
	8+02.8 M.H.
	8+53.2 145
	9+06.7 146
	9+70.2 147
	10+52.0 M.H. at Ferdon Rd.



JOB NO 1484

SHEET No 1
 INDEX No. 2471
 SHELF No. 6
 SIZE C
 SUB No. 938

CITY ENGINEER'S OFFICE
 ANN ARBOR, MICH.
 PLAN AND PROFILE
 OF
 SANITARY SEWER

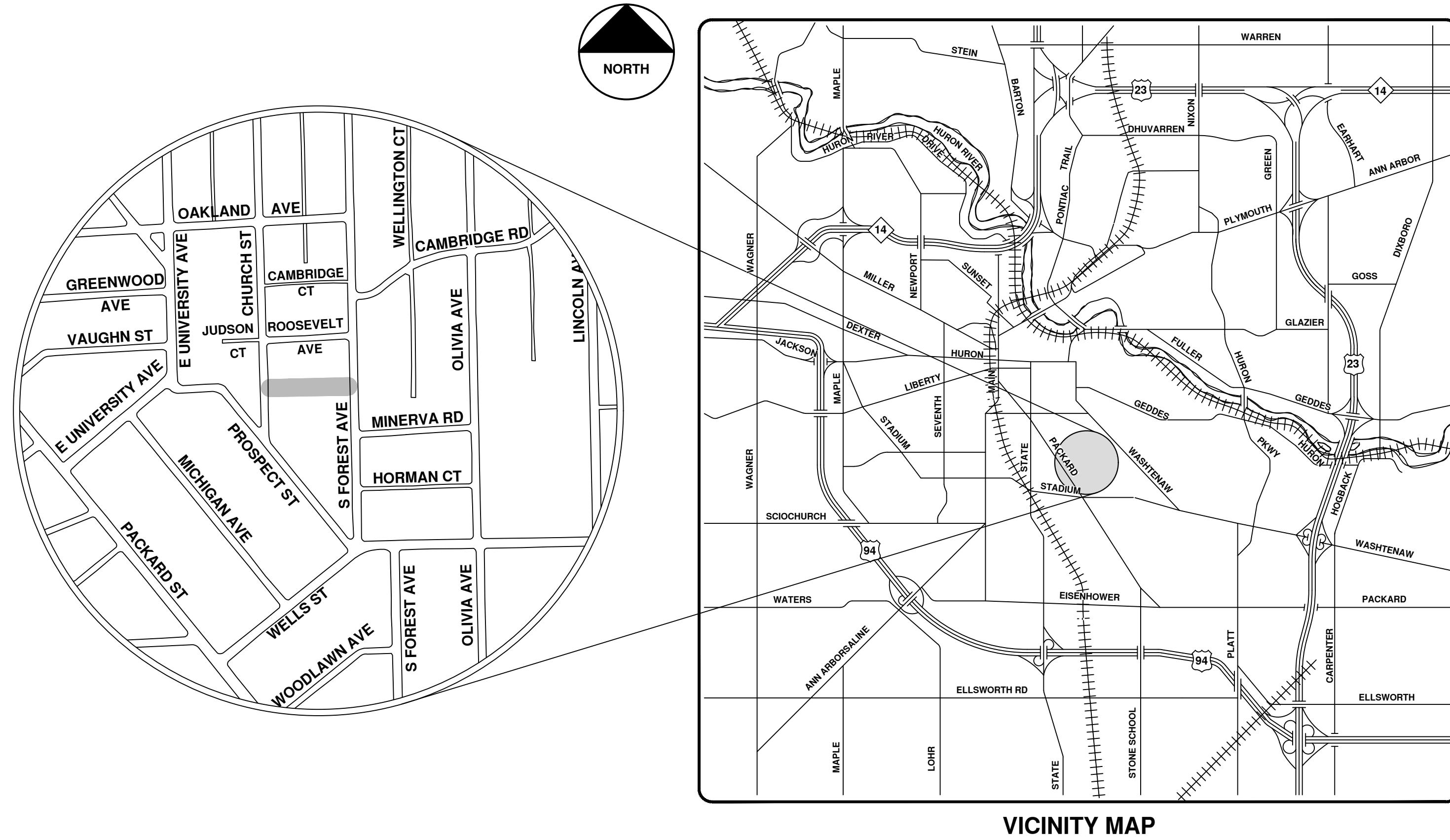
CHEROKEE ROAD

Drawn by J.A.M.
 Traced by J.A.M.
 Checked by
 Geo. H. Sandenburgh, City Engineer
 1947
 Scale: 1"=40' Prof. Vert. 1"=4'



2022 SEWER LINING PROJECT

CROSSLOT 1106 S FOREST AVE



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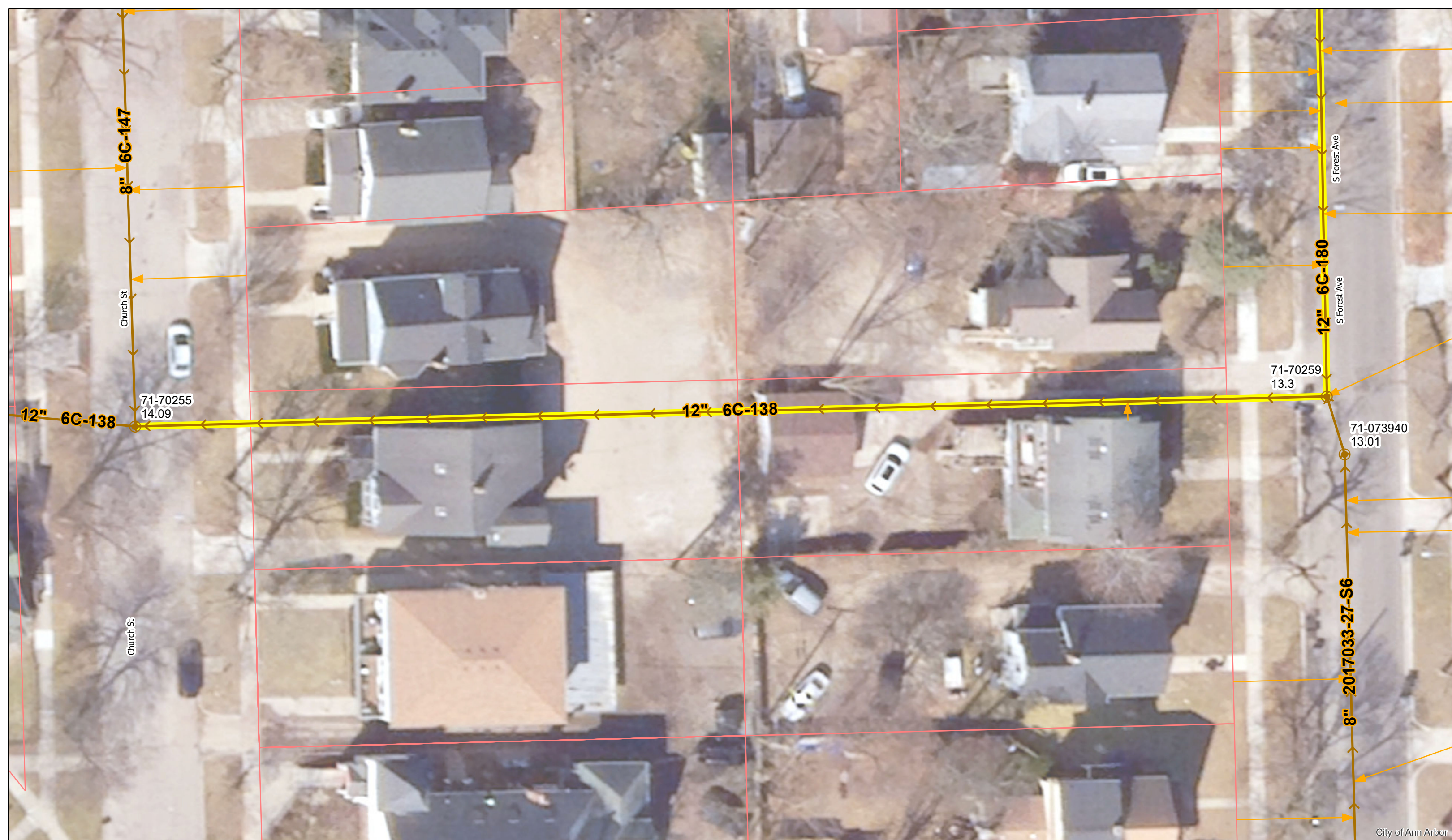
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SCALE
 DRAWING No.
 2022011-14

SHEET No.

14 OF 105

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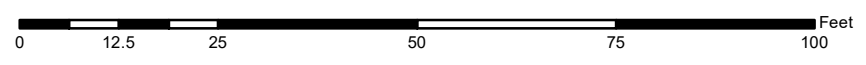
City of Ann Arbor

Crosslot 1106 S. Forest Ave.

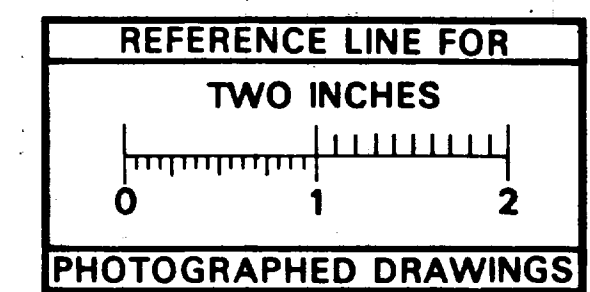
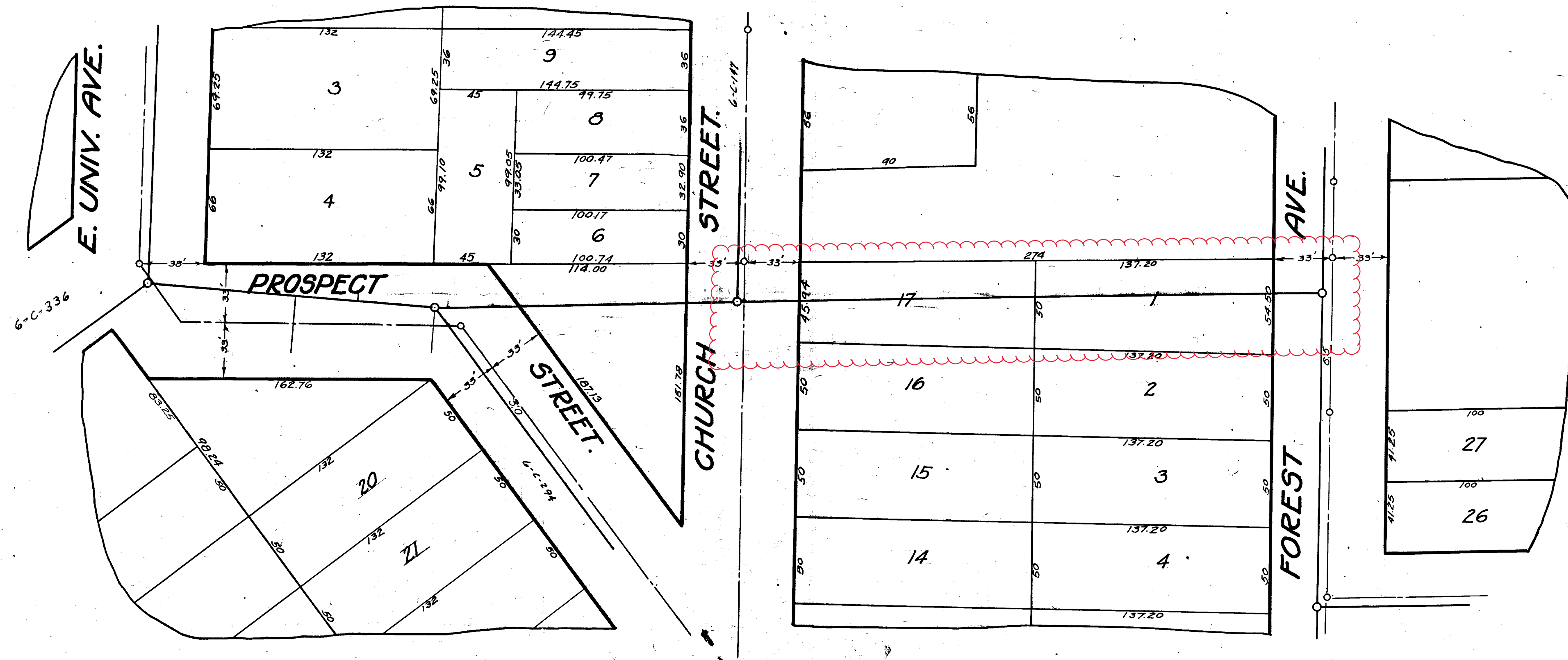


	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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MEASUREMENTS
TO
HOUSE CONNECTIONS
On Prospect from E.U. to E. on Prospect
Sta. 0 - M.H. at E. Univ. Ave.
North 121.4
South 173.3

Digital Status
Scanned On: 6-26-04
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

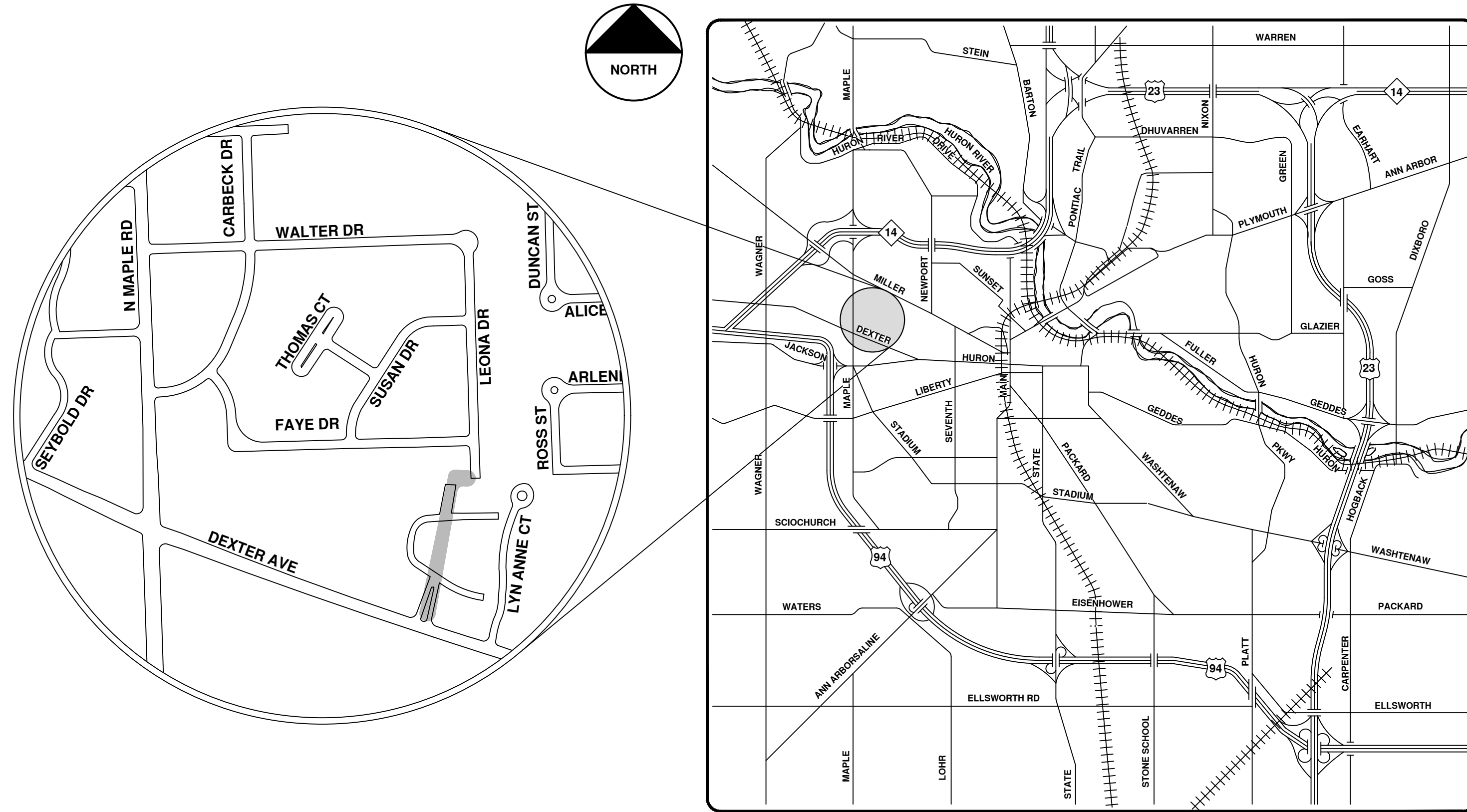
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INDEX No 753
SHELF No 6
SIZE C
SUB. No. 138
Drawn by
Traced by [Signature]
Checked by [Signature]

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
PROSPECT - SUB MAIN
FOREST AVE. TO E. UNIV. AVE.
G.H. Sandenburgh, City Engineer
1918
Scale - Plan 1" = 40' Profile Hor 1" = 40' Ver. 1" = 4'



2022 SEWER LINING PROJECT

CROSSLOT 2200 DEXTER AVE



VICINITY MAP

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2022011-17

SHEET No.

17 OF 105

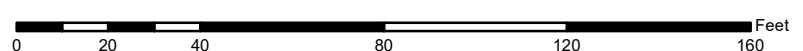


Crosslot 2200 Dexter Ave.



	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



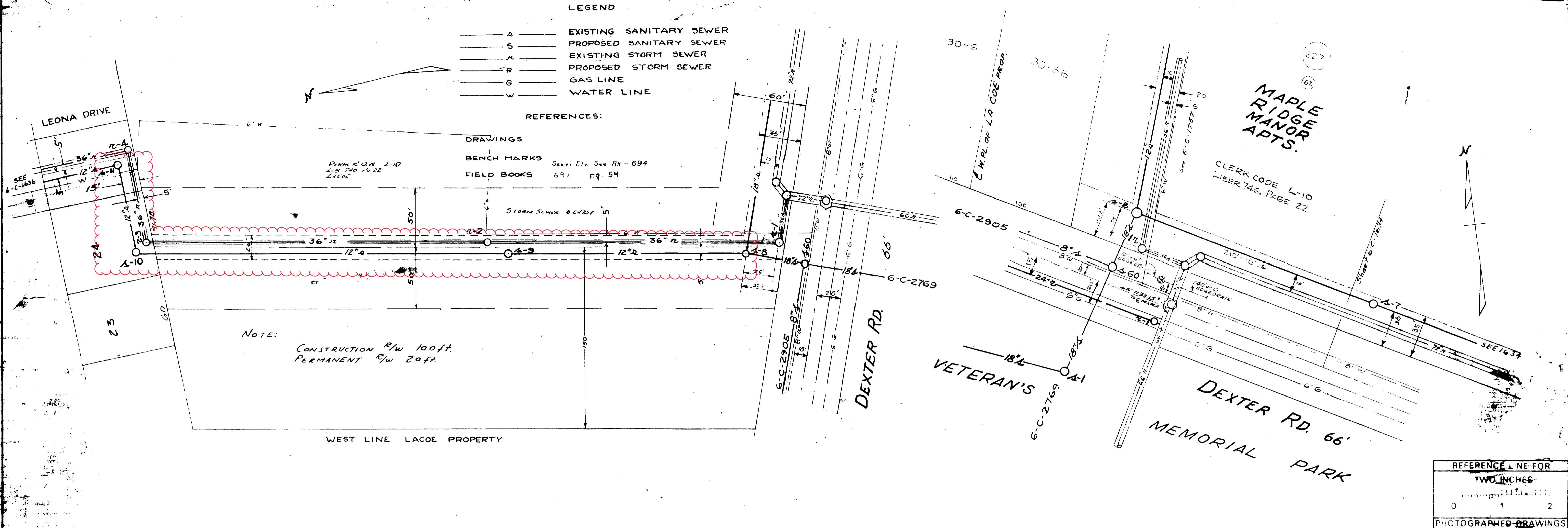
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LEGEND

- A — EXISTING SANITARY SEWER
- S — PROPOSED SANITARY SEWER
- X — EXISTING STORM SEWER
- R — PROPOSED STORM SEWER
- G — GAS LINE
- W — WATER LINE

REFERENCES:

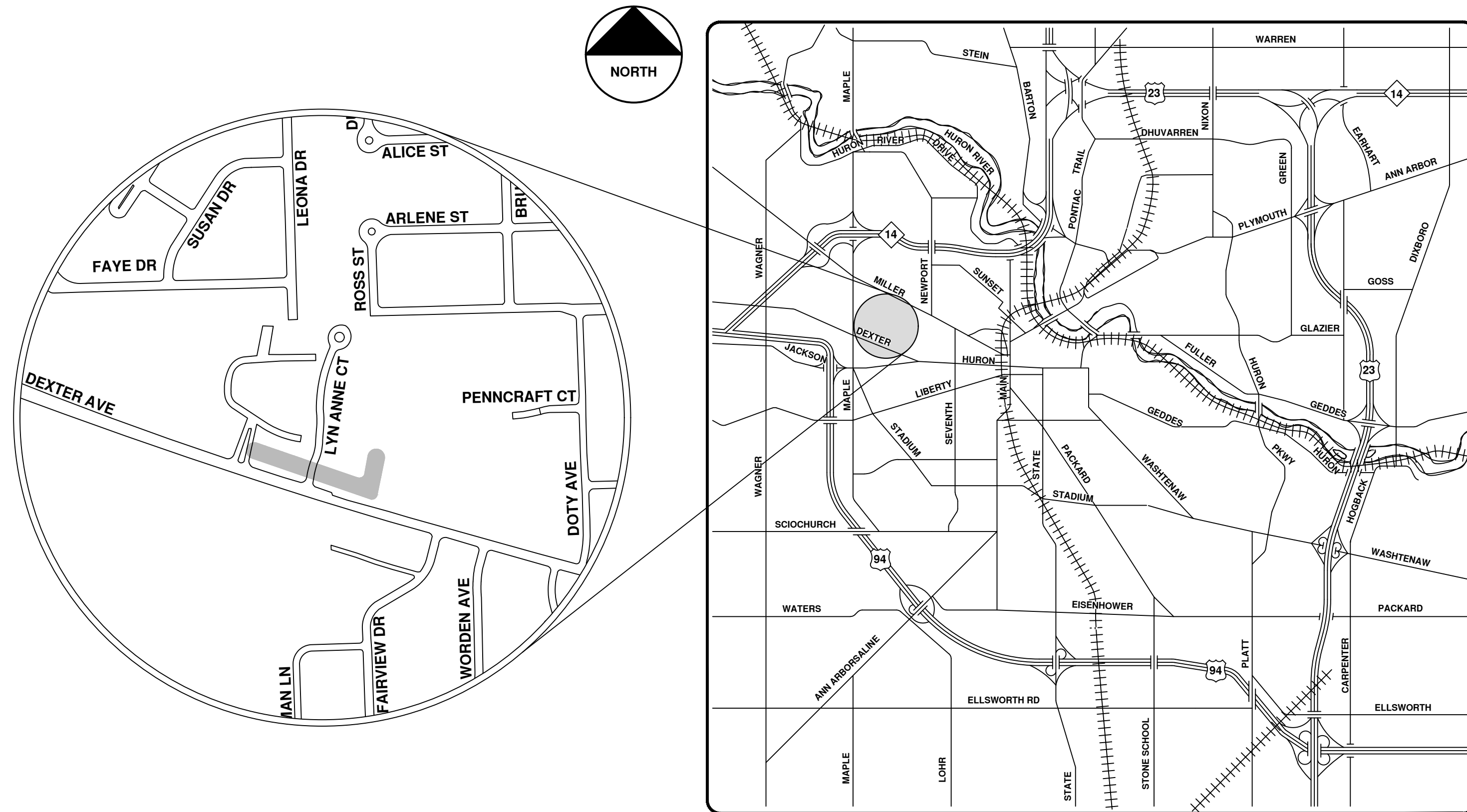
- DRAWINGS
- BENCH MARKS Sewer Elev. See Bk. - 694
- FIELD BOOKS 691 pg. 54





2022 SEWER LINING PROJECT

CROSSLOT PARALLEL N OF DEXTER AVE & DOTY AVE



VICINITY MAP

R:\2022011 Sewer Lining 2022\Plan Production\2022011CovSan.dwg - _o2_standard bw.stb - Plot Date: 12/7/2021 10:36:51 AM



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 301 EAST HURON STREET, P.O. BOX 8647
 ANN ARBOR, MICHIGAN 48107-8647
 734-794-6410 www.a2gov.org



REV	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	12/10/21	ARG	IK

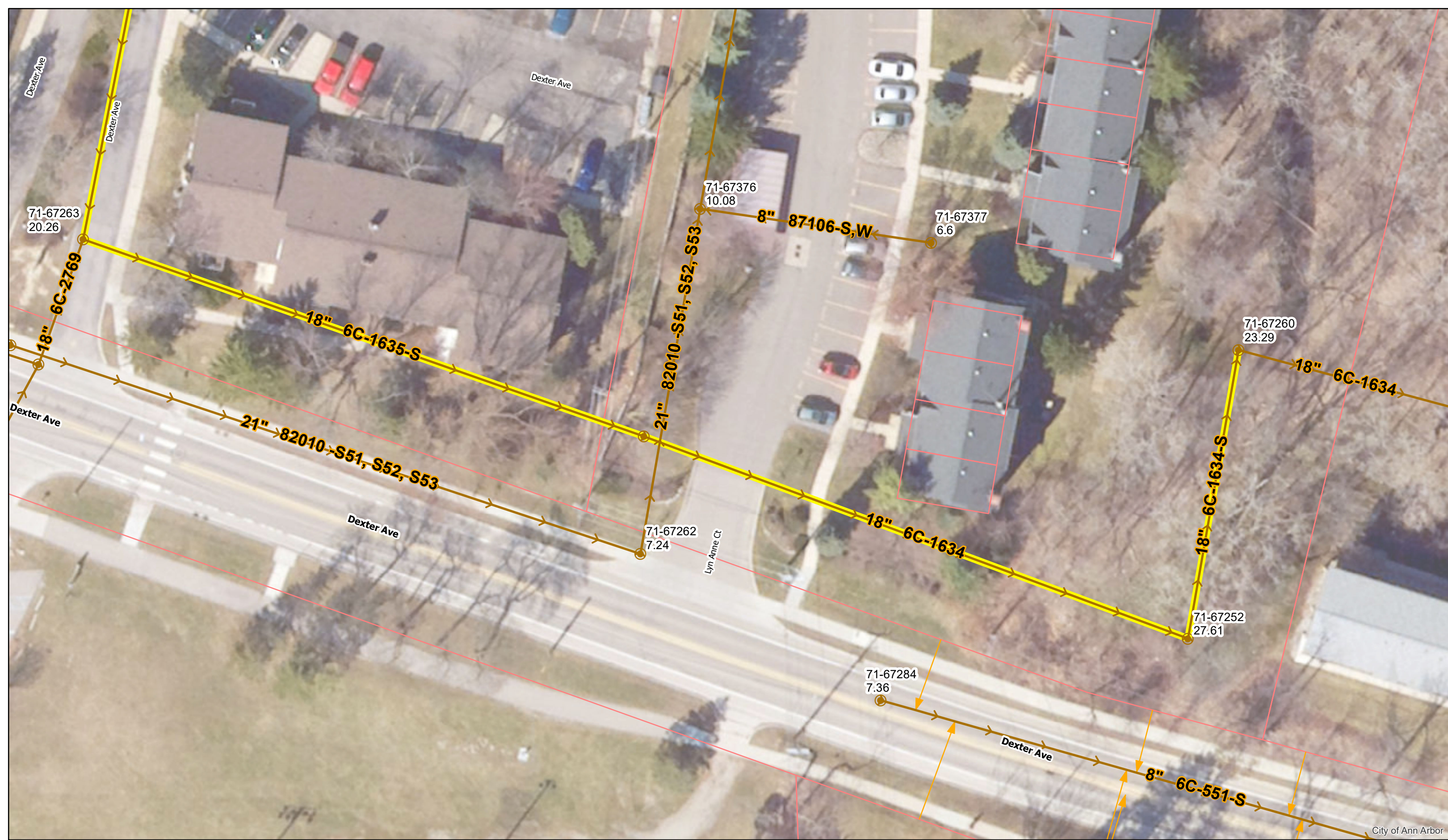
CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48107-8647
 734-794-6410
 www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2022011-20

SHEET No.
 20 OF 105

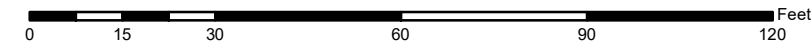


Crosslot Parallel N of Dexter Ave & Doty Ave



	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



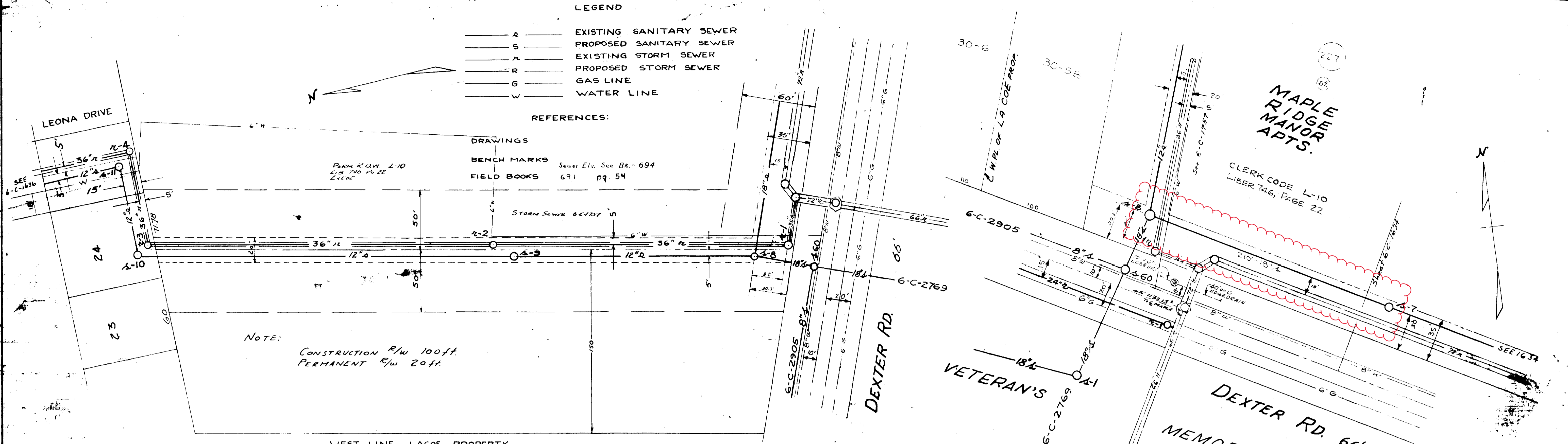
For terms and conditions please visit www.a2gov.org/terms

LEGEND

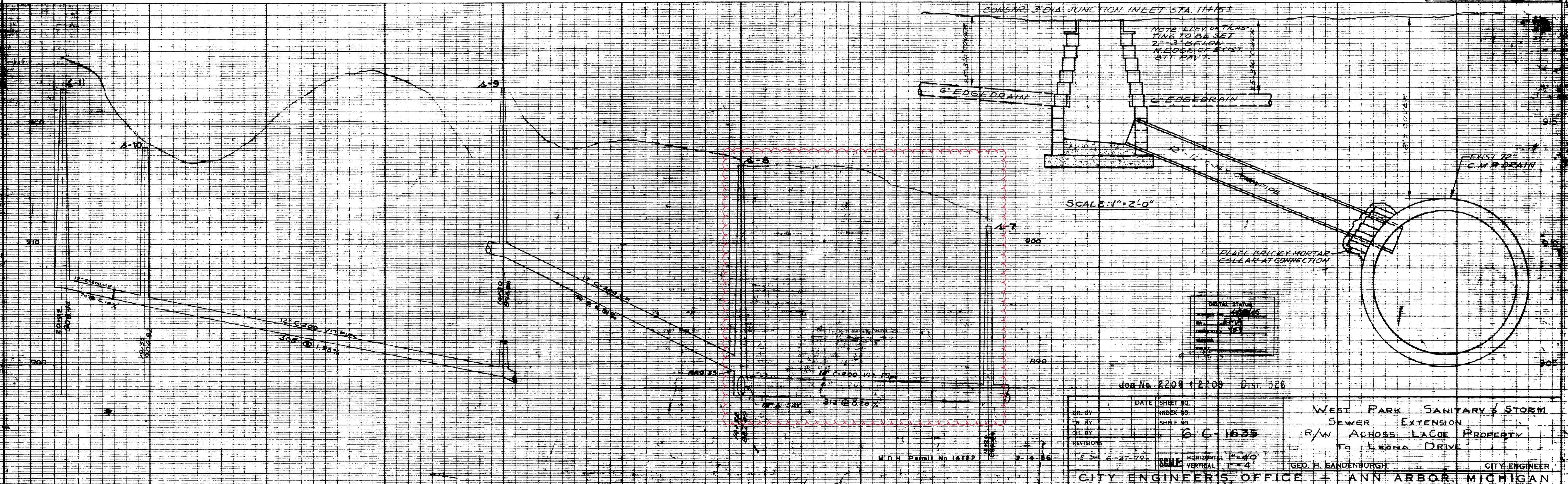
- A — EXISTING SANITARY SEWER
- S — PROPOSED SANITARY SEWER
- X — EXISTING STORM SEWER
- R — PROPOSED STORM SEWER
- G — GAS LINE
- W — WATER LINE

REFERENCES:

- DRAWINGS
- BENCH MARKS Sewer Elev. See Bk. - 694
- FIELD BOOKS 691 pg. 54

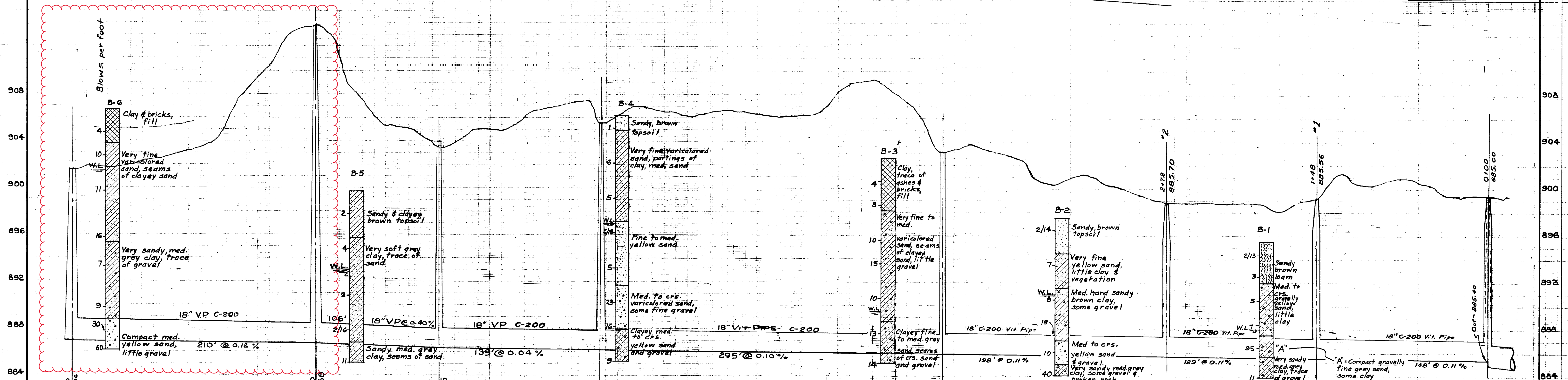
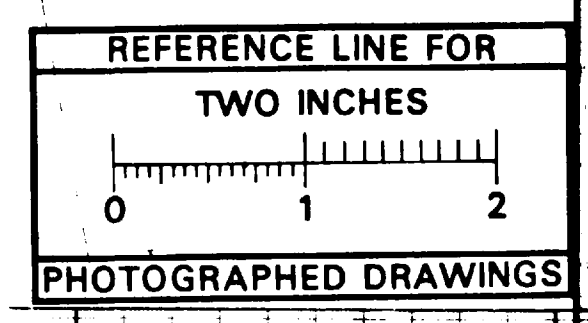
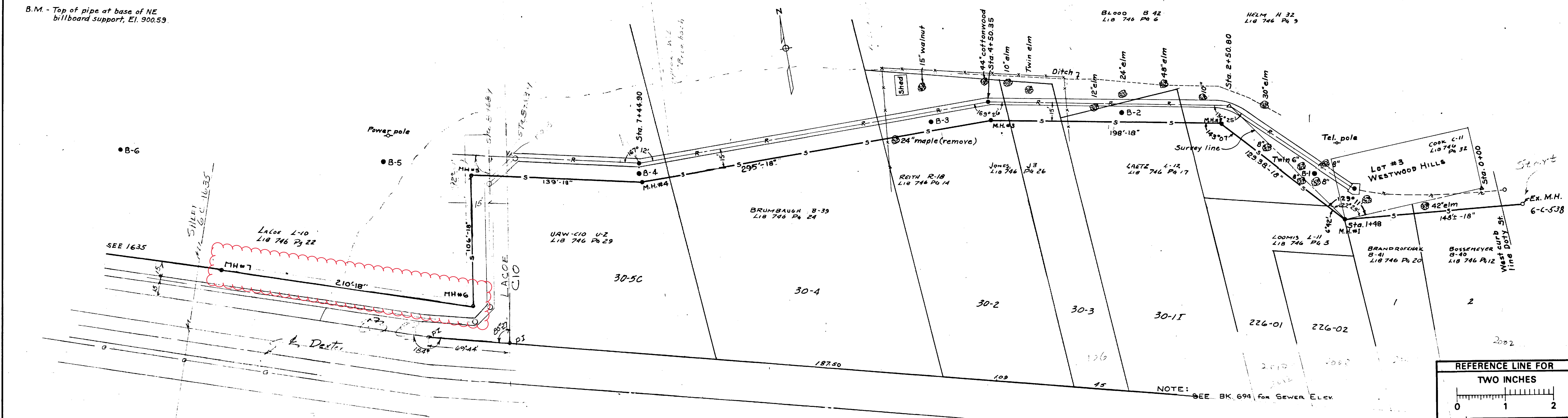


REFERENCE LINE FOR
TWO INCHES
0 1 2
PHOTOGRAPHED DRAWINGS



B.M. - SE corner of porch #203
Doty St., El. 904.18

B.M. - Top of pipe at base of NE
billboard support, El. 900.59



Digital Status
Scanned On: 4/13/05
By: J.M.H.
Despeckled: YES
Vectors:
O.C.R.:

Job #2208
&
2209
Dist. 326

DR. BY L.P.V.	DATE 3-55	SHEET NO. INDEX NO. 3408
TR. BY R.M.H.	DATE 4/5/58	SHELF NO.
CR. BY J.M.H.	DATE 5/2/55	
REVISIONS		
2-14-56		
SCALE: HORIZONTAL 1" = 40' VERTICAL 1" = 4'		

WEST PARK SANITARY
SEWER EXTENSION
DOTY TO DEXTER

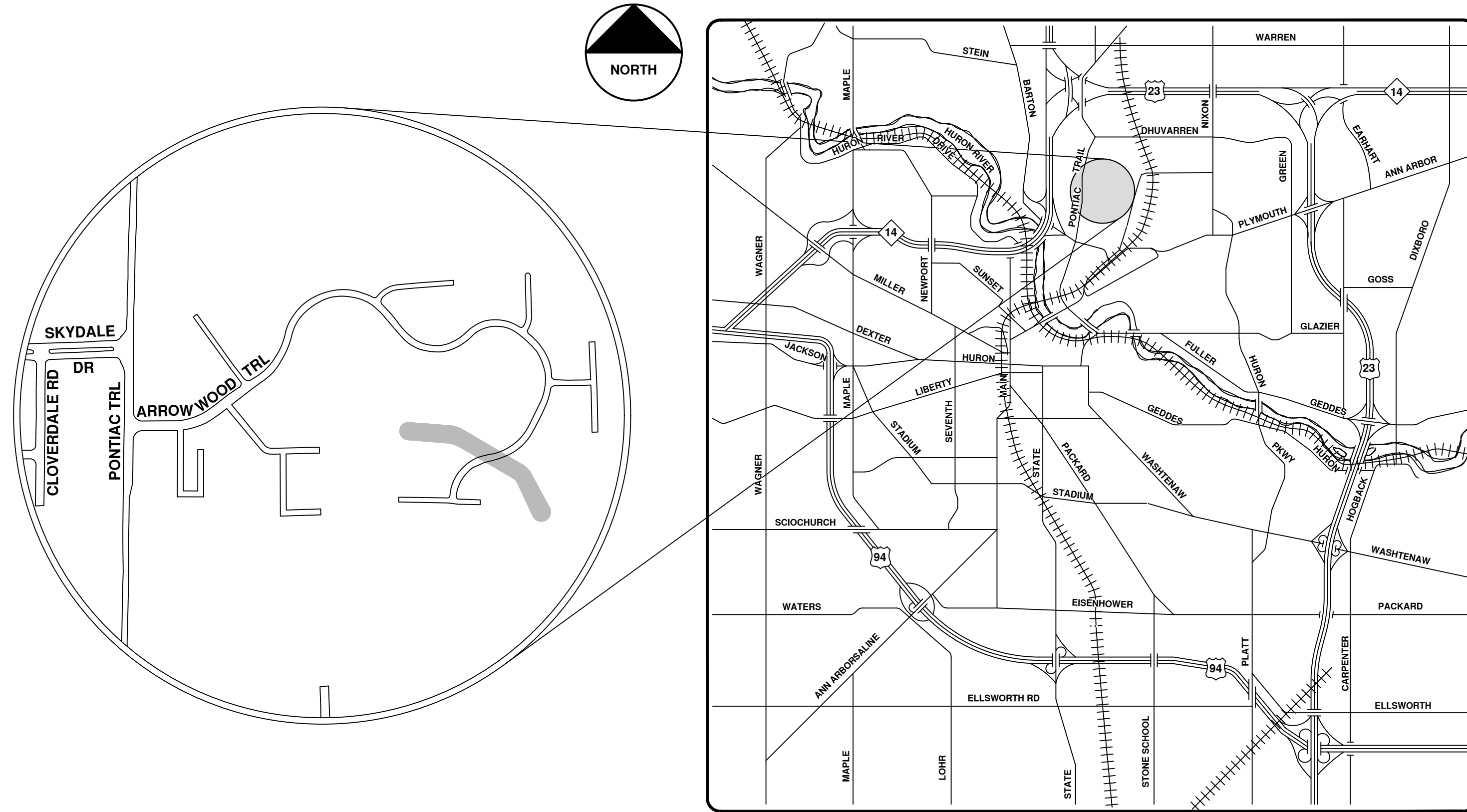
GEO. H. SANDENBURGH
CITY ENGINEER

CITY ENGINEER'S OFFICE - ANN ARBOR, MICHIGAN



2022 SEWER LINING PROJECT

CROSSLOT ARROWWOOD TRL


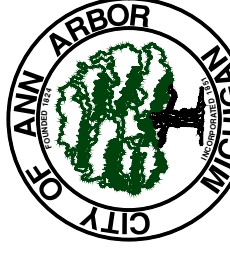


VICINITY MAP

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 Know what's below. Call before you dig.	
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING SCALE DRAWING No. 2022011-24	SHEET No. 24 OF 105
REV.	DESCRIPTION
00 BID SET	12/10/21 DATE
ARG DRAWN	IK CHECKED



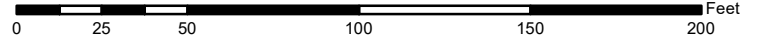
City of Ann Arbor

Crosslot Arrowwood Trl.

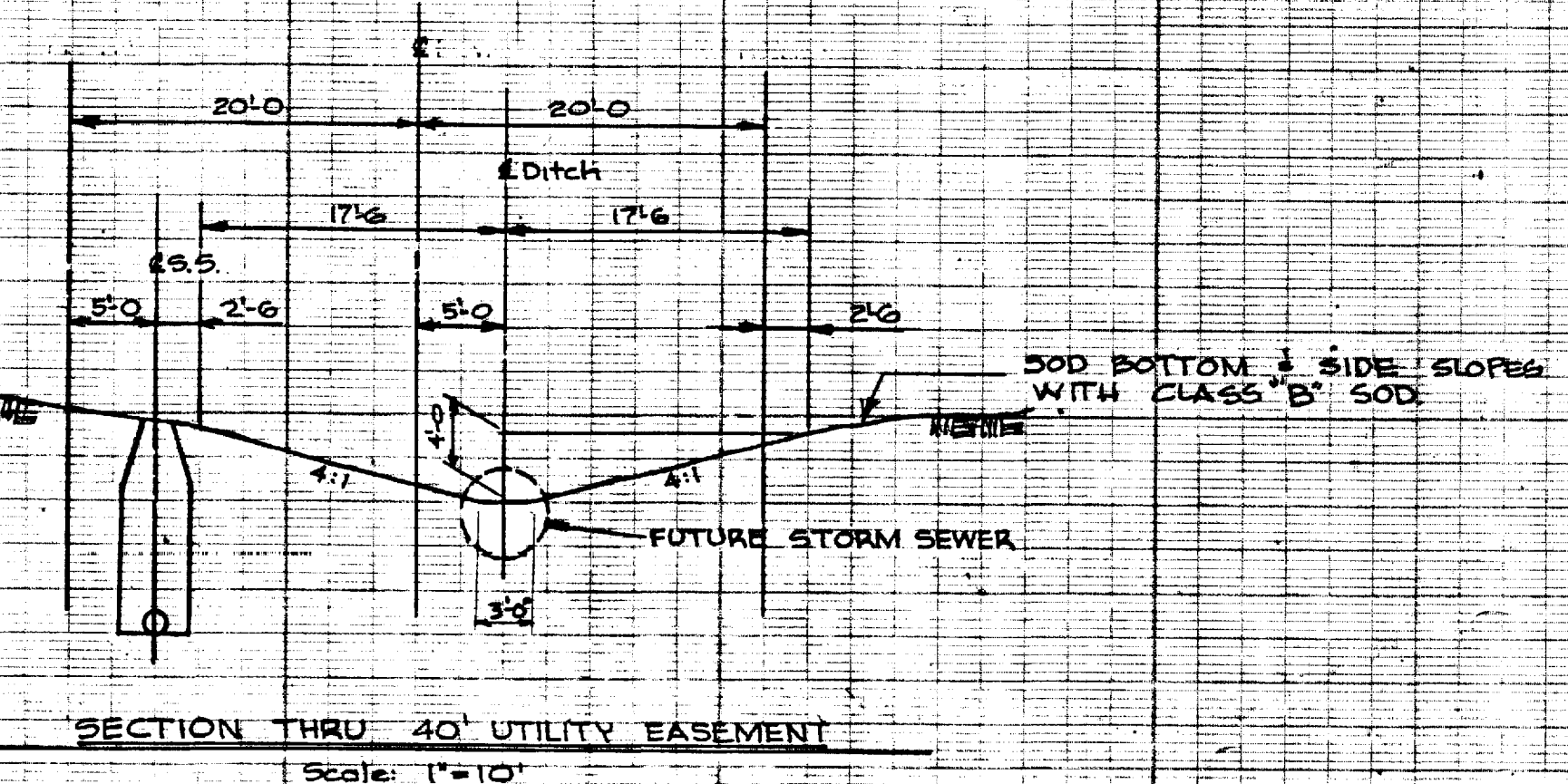
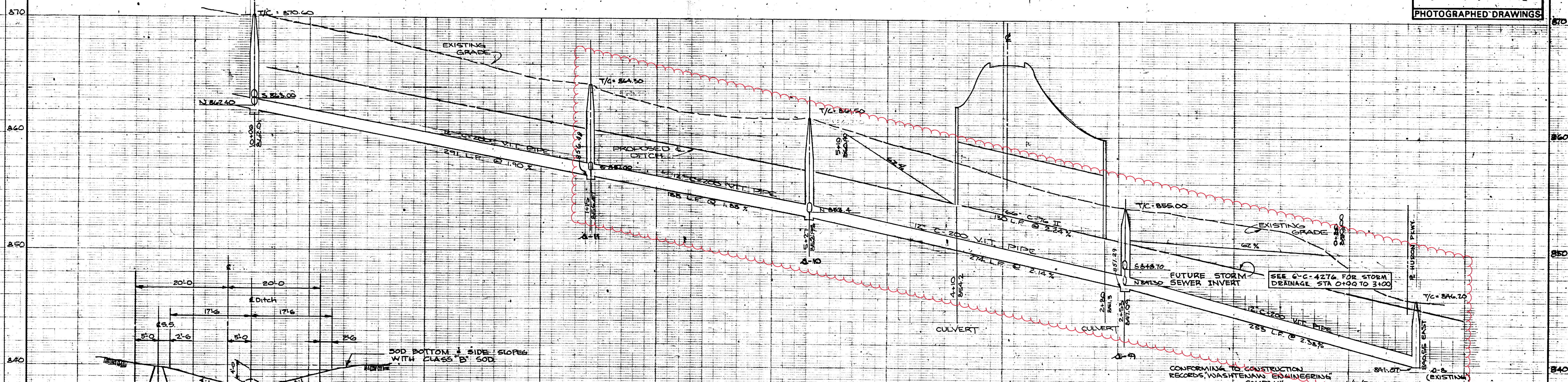
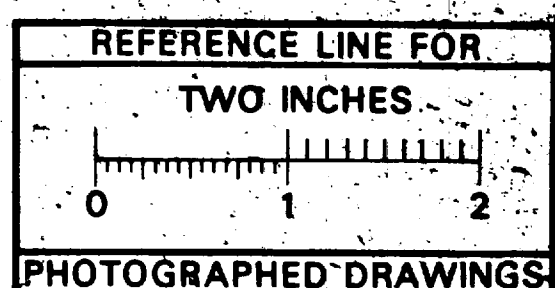
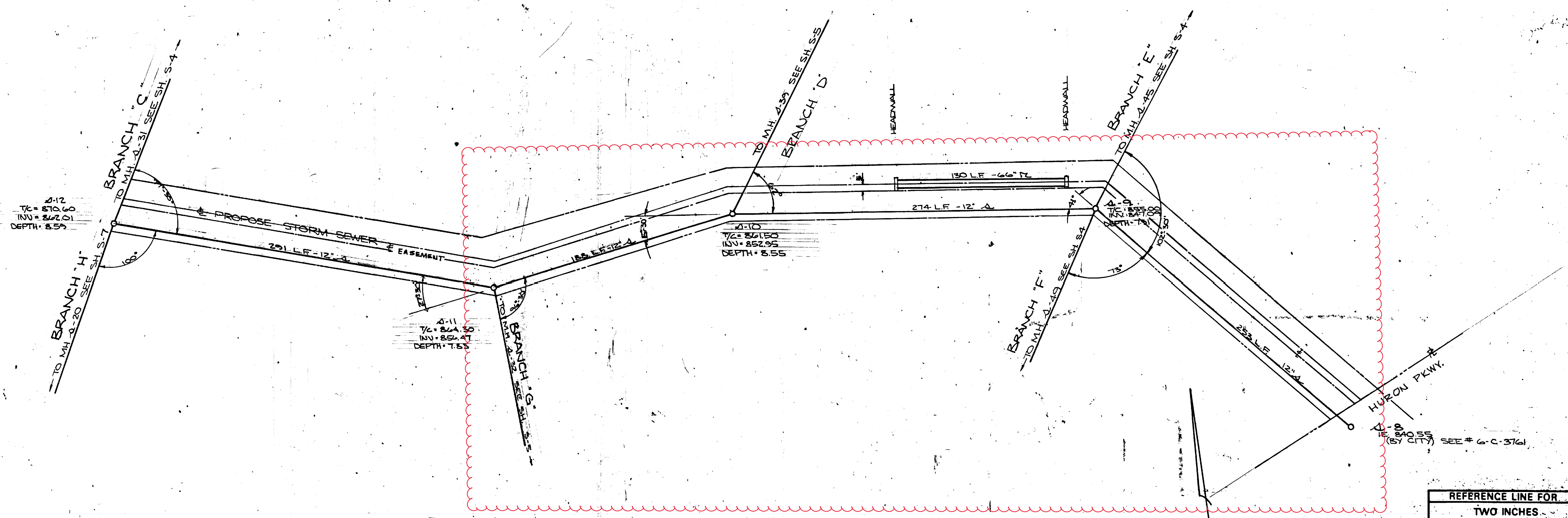


	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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Digital Status
Scanned On: 6-15-05
By: DSK
Despatched: YES
Vectors:
O.C.R.:

DR. BY: PC	DATE: 10-67	SHEET NO.: 6569	SANITARY SEWER PONTIAC HEIGHTS
TR. BY:		INDEX NO.:	
CH. BY: NLD	10-68	SHELF NO.:	
REVISIONS:	6-C-4276		FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS
DATE: 10-68	SCALE: HORIZONTAL 1"=40'		
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN			PREPARED BY: ARMAN L. DIETRICH, P.E. APPROVED BY: <i>Harold J. Russell</i> 10/15/68
JOB: 3576-S	DIST.:	PRIVATE	
JOB: 3577-12	DIST.:	PRIVATE	

LEGEND:

—○—○—	EXISTING SANITARY	—○—○—	EXISTING STORM	—G—	EXISTING GAS
—●—●—	PROPOSED SANITARY	—●—●—	PROPOSED STORM	—W—	EXISTING WATER
—	CENTER LINE	- - - - -	RIGHT PROPERTY LINE		
- - - - -	LEFT PROPERTY LINE				

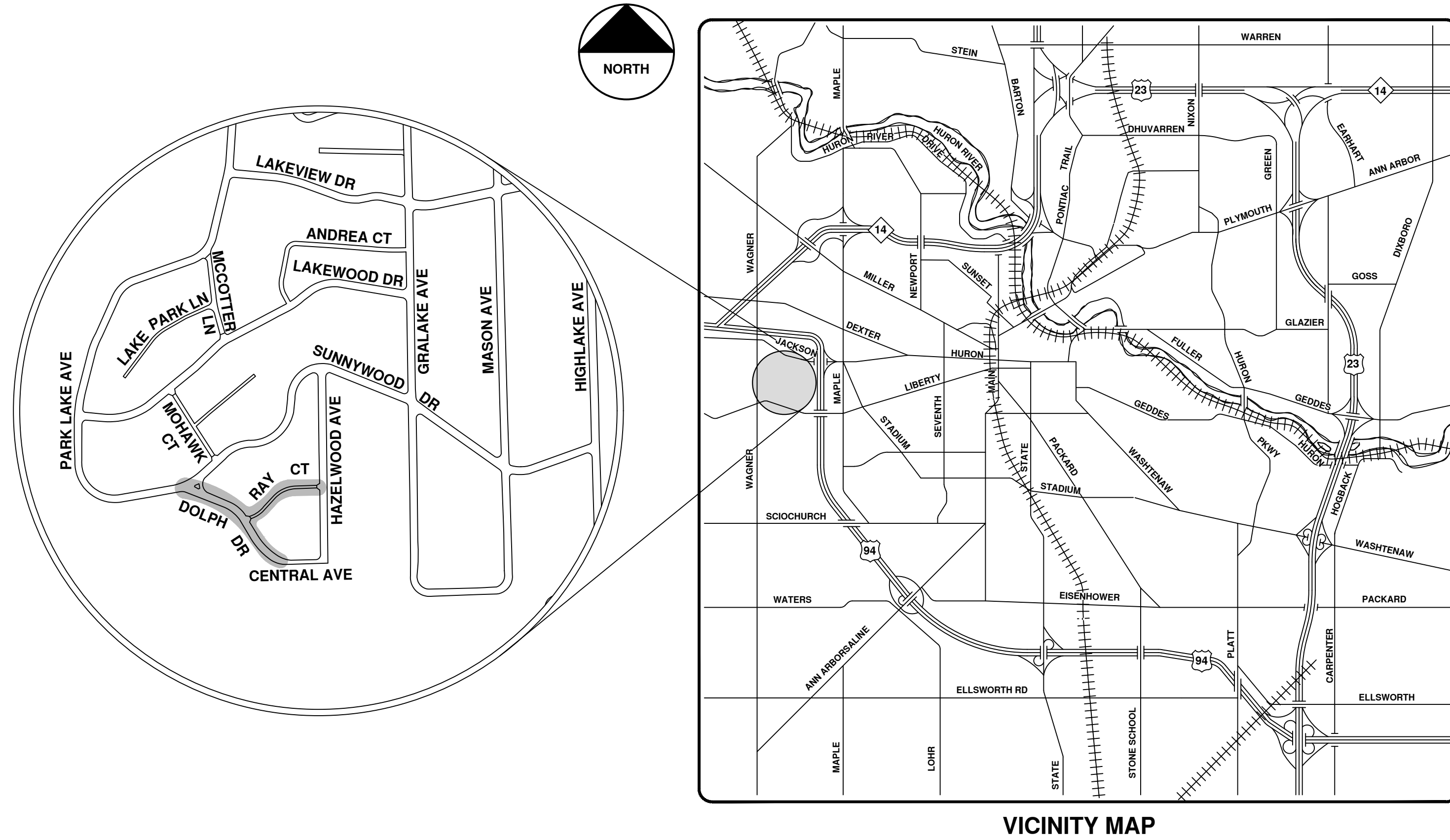
REFERENCES: BENCH MARK SPK IN SOUTH SIDE OF P.P. PROFILES BY: _____
SW CORNER OF PROP. EL. 399.03
 DRAWINGS: _____ FIELD BOOK: _____
 M.D.P.H. PERMIT NO. 680721 11/1/68

33



2022 SEWER LINING PROJECT

DOLPH DR & RAY CT



VICINITY MAP

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CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48107-8647 www.a2gov.org	CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING SCALE DRAWING No. 2022011-27
DO REV.	BID SET DESCRIPTION
12/10/21 DATE	ARG DRAWN
IK CHECKED	27 OF 105

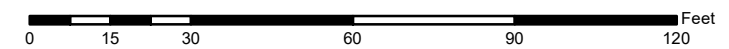


Dolph Dr. & Ray Ct.

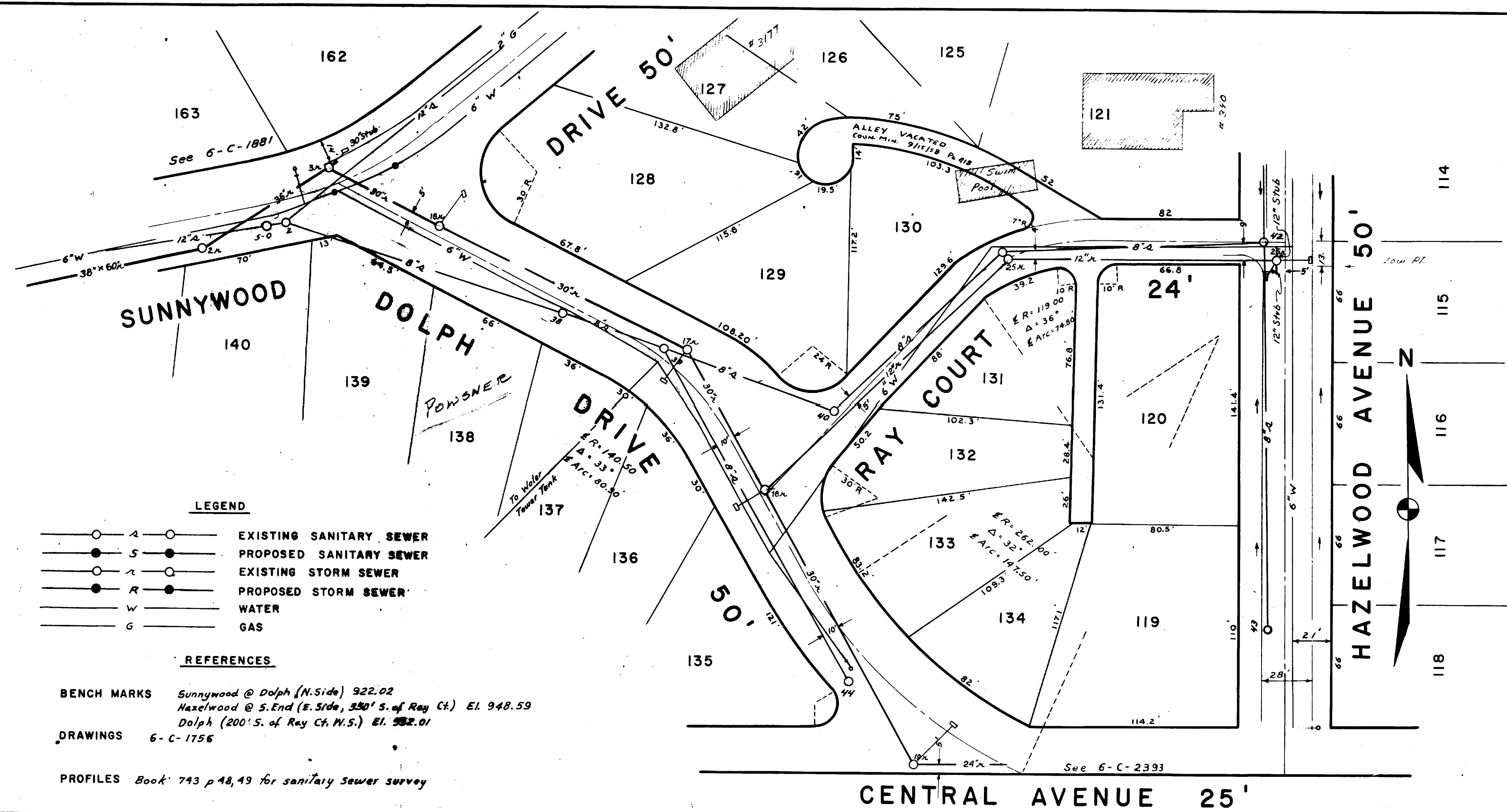


	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

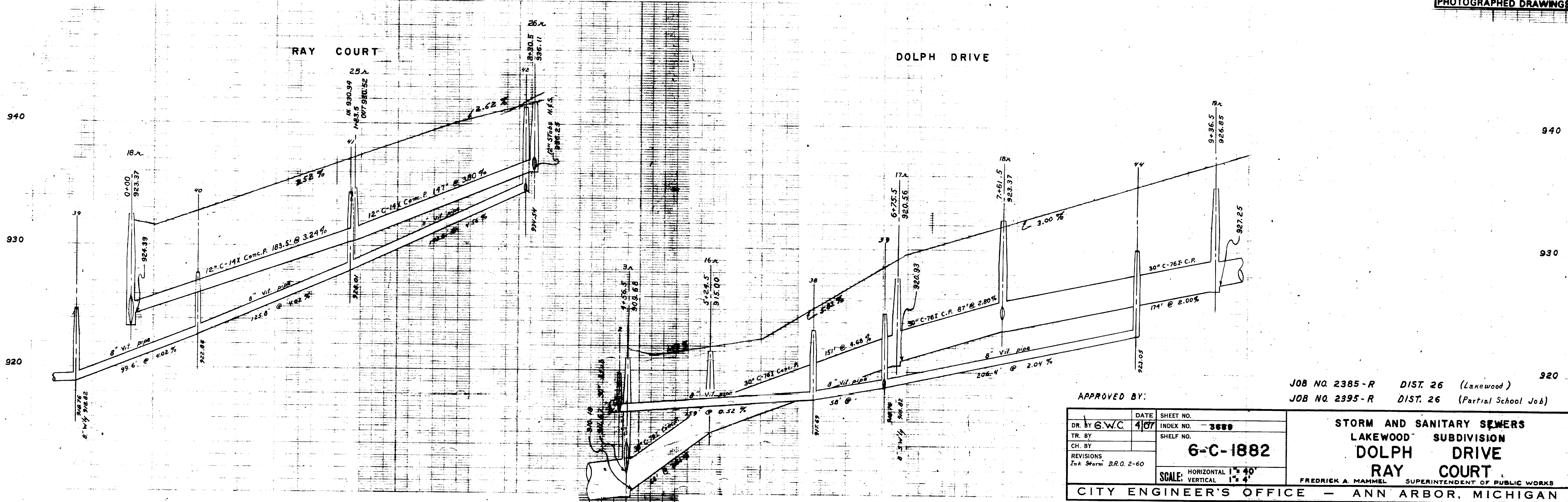
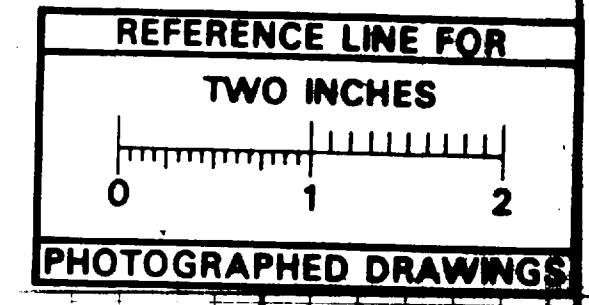
71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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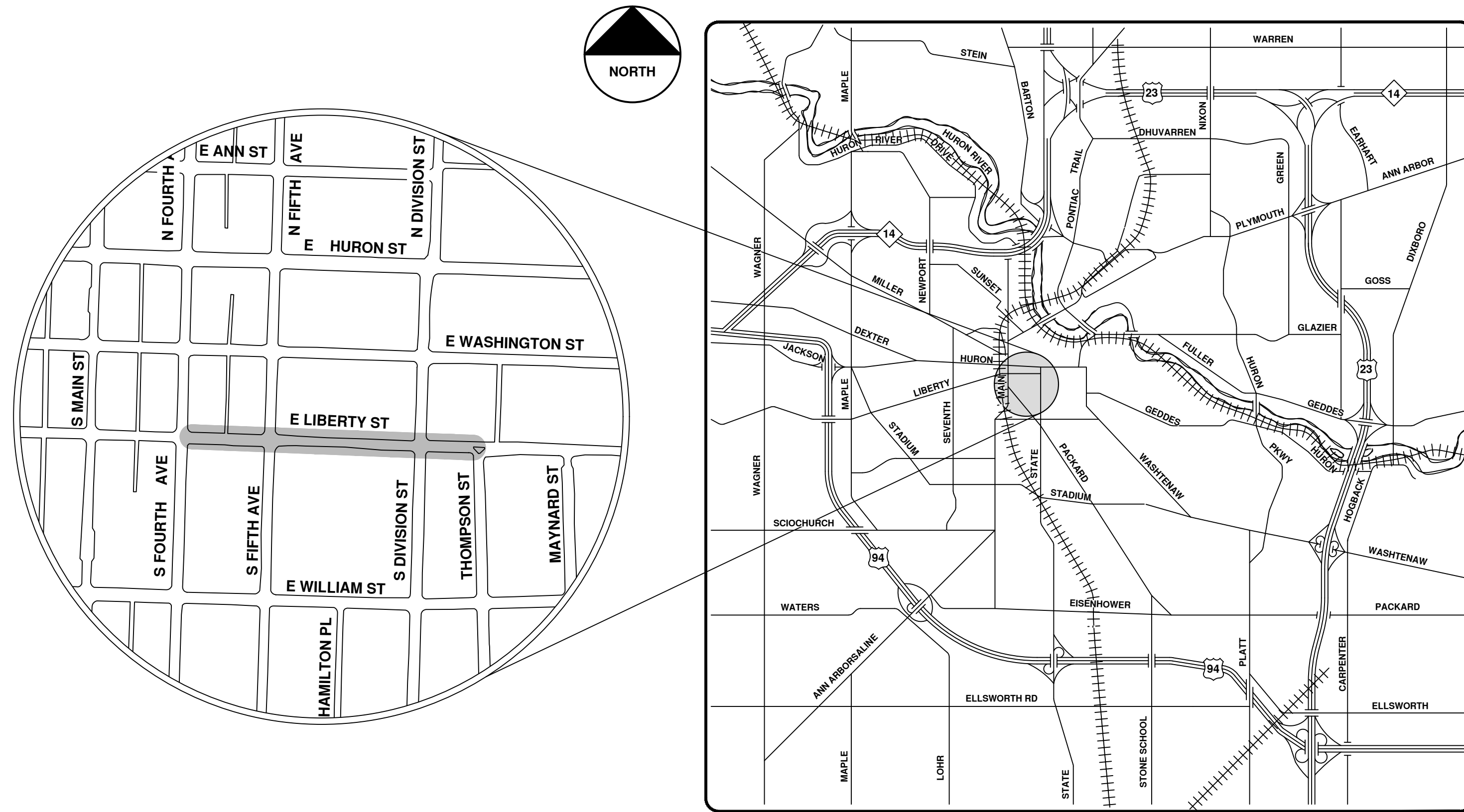
DIGITAL STATUS
 SCANNED ON: 6/1/05
 BY: EMA
 REPRODUCED: YES
 VECTORS:
 O.C.R.:





2022 SEWER LINING PROJECT

E LIBERTY ST

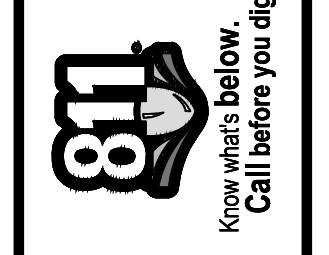


VICINITY MAP

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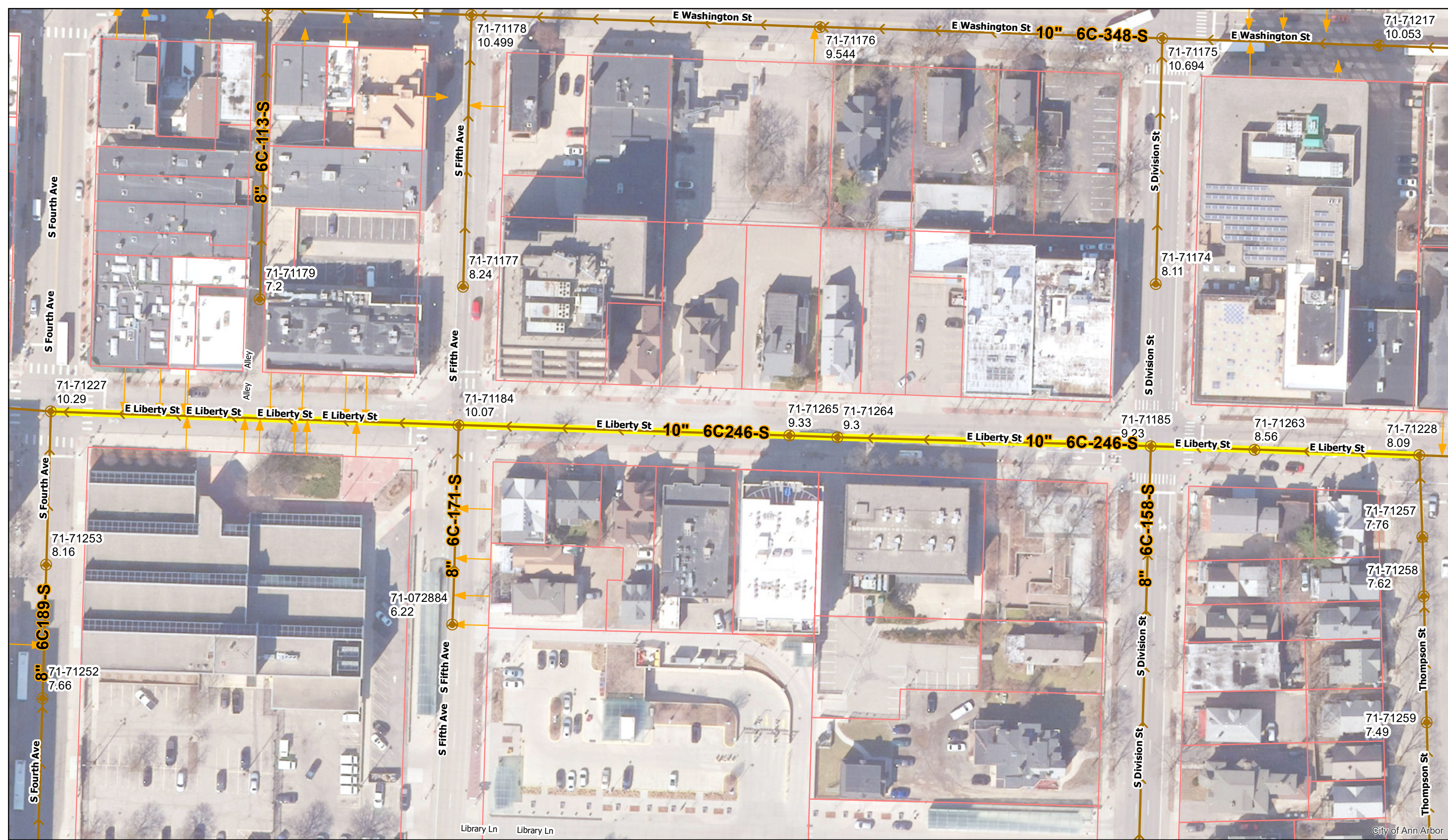
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00	BID SET	12/10/21	ARG	DRAWN
			IK	CHECKED

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 SCALE
 DRAWING No. 2022011-30
 SHEET No. 30 OF 105

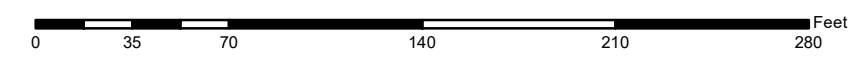


E. Liberty St.

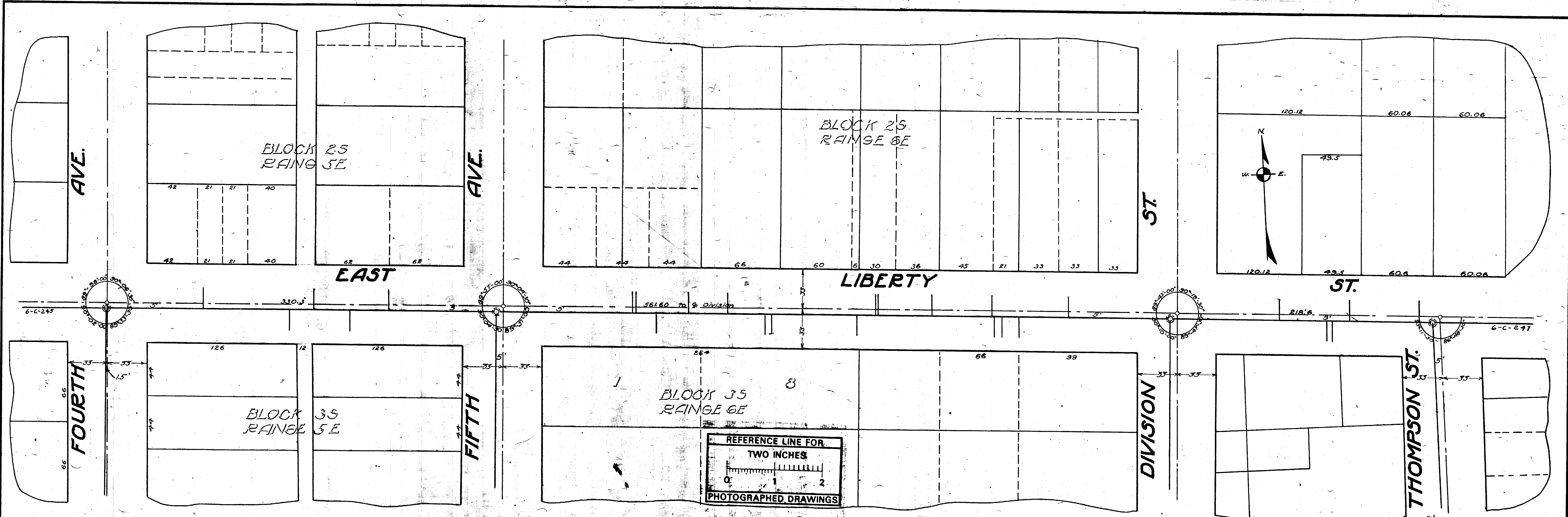


	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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Measurements to house connections

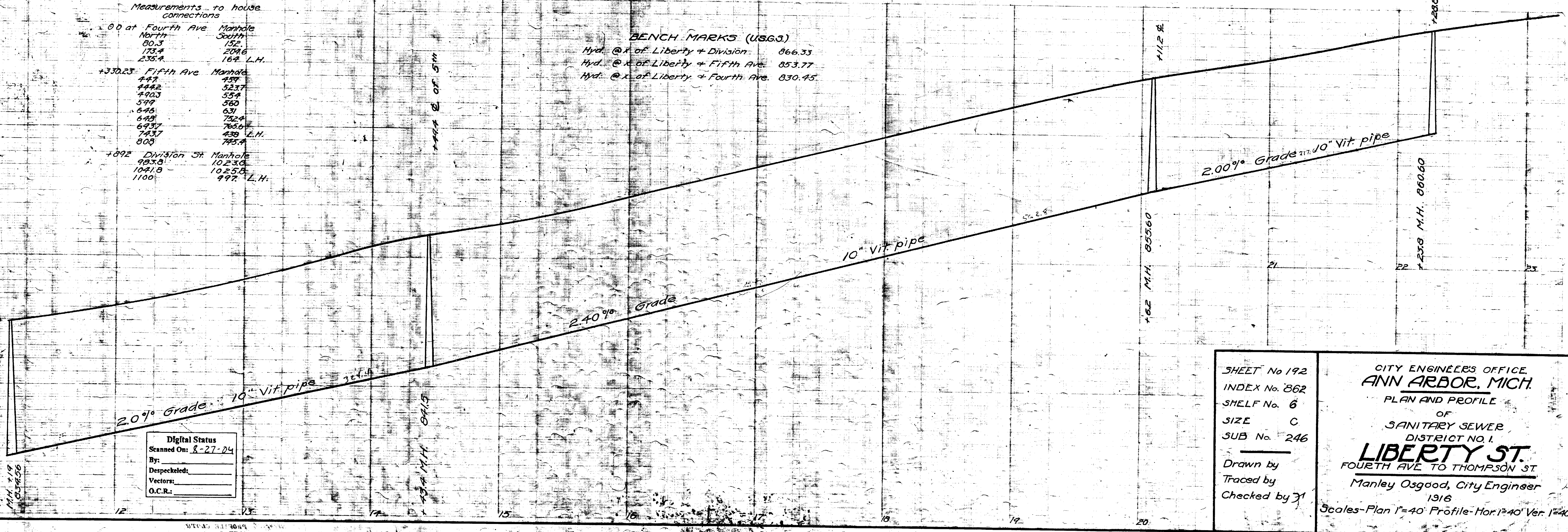
00 at Fourth Ave Manhole	
North	South
80.3	152
131.4	204.6
235.4	162 L.H.

+330.23 Fifth Ave Manhole	
North	South
442	523.7
442	523.7
490.3	55.4
599	560
648	63
648	782.4
693.7	765.6
743.7	438 L.H.
808	795.4

+892 Division St Manhole	
North	South
983.8	1023.6
1041.8	1025.8
1100	997 L.H.

BENCH MARKS (USGS)

Hyd. @ E. of Liberty + Division	866.33
Hyd. @ E. of Liberty + Fifth Ave	853.77
Hyd. @ E. of Liberty + Fourth Ave	830.45



Digital Status
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By:
Despeckled:
Vectors:
O.C.R.:

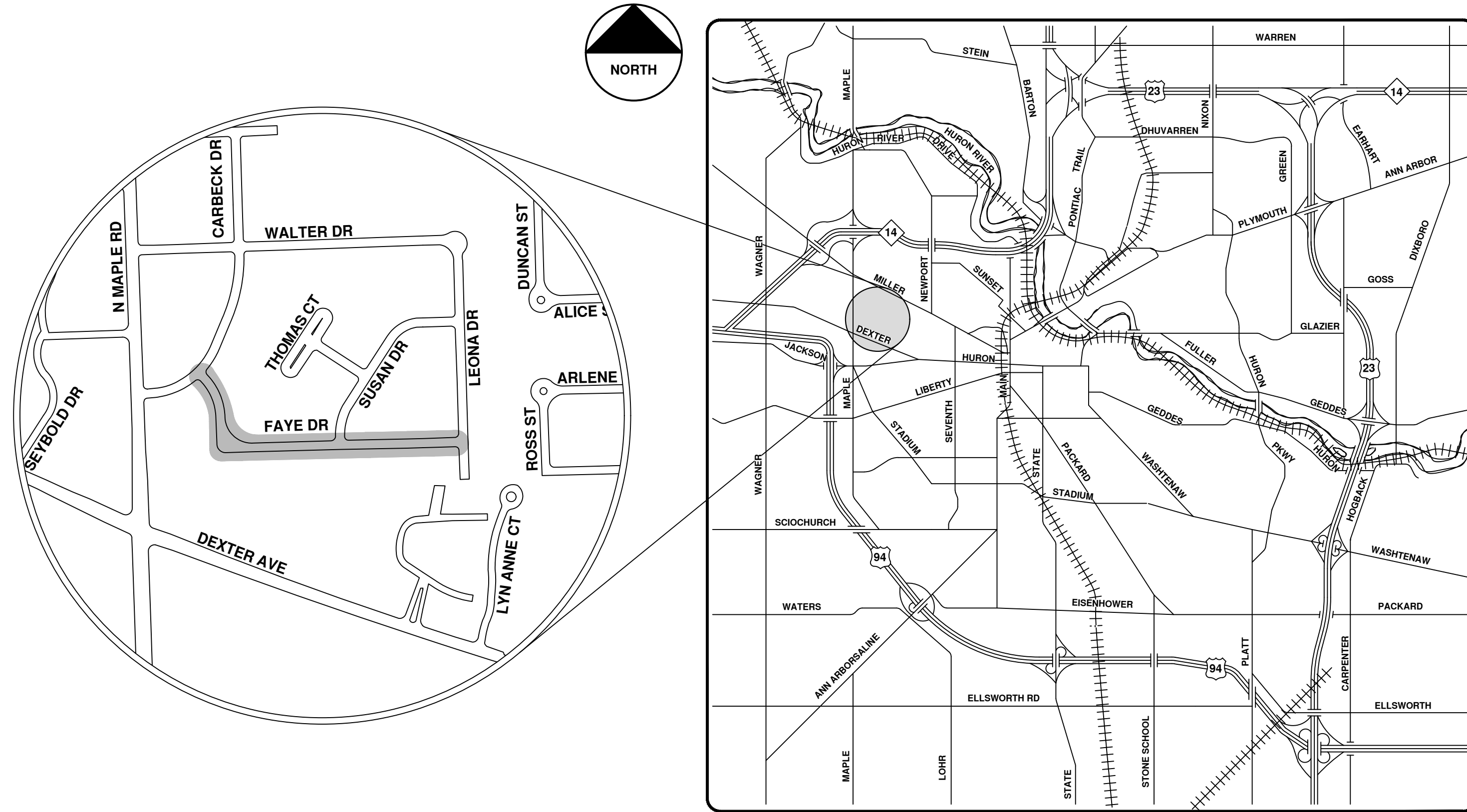
SHEET No 192
INDEX No 862
SHELF No 6
SIZE C
SUB No 246
Drawn by
Traced by
Checked by 31

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
DISTRICT NO. 1
LIBERTY ST.
FOURTH AVE TO THOMPSON ST
Manley Osgood, City Engineer
1916
Scales-Plan 1"=40' Profile-Hor 1"=40' Ver 1"=40'



2022 SEWER LINING PROJECT

FAYE DR



VICINITY MAP

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00	BID SET	12/10/21	ARG	IK

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 ANN ARBOR, MI 48107-8647
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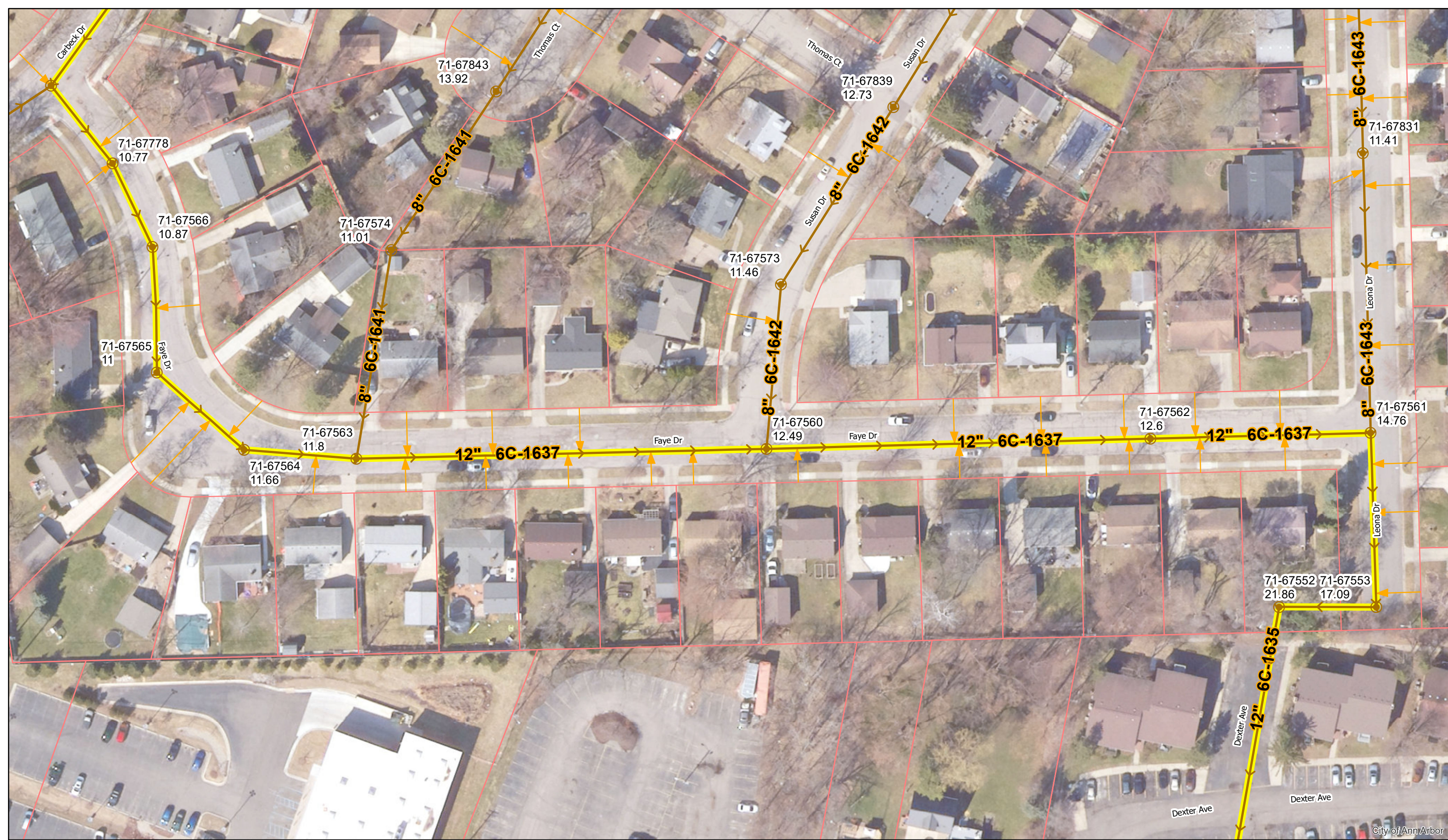
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2022011-33

SHEET No.

33 OF 105

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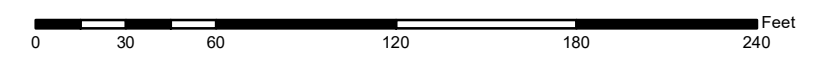


Faye Dr.



	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

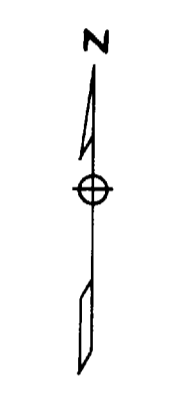
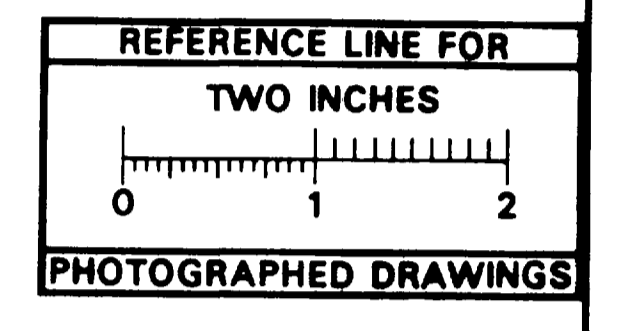
71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



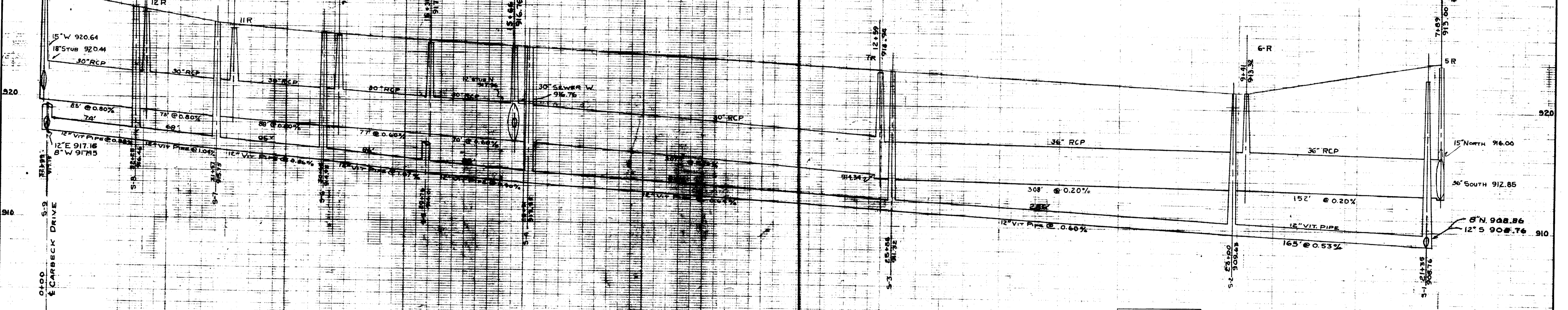
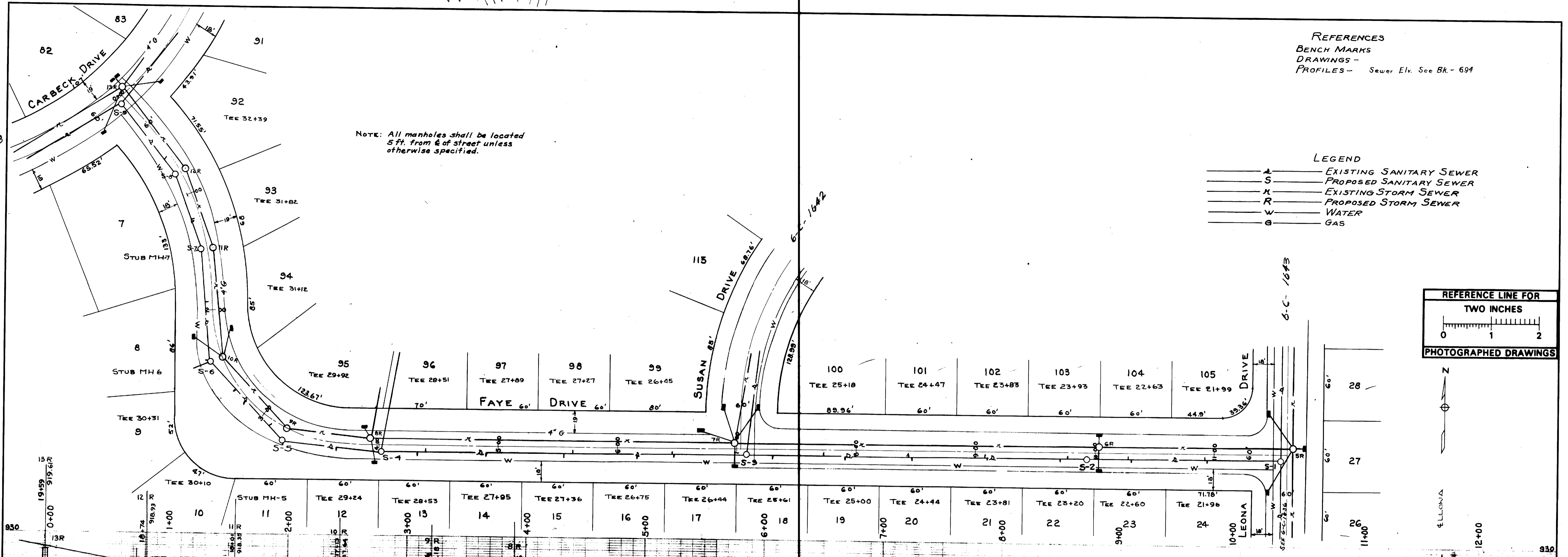
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REFERENCES
BENCH MARKS
DRAWINGS -
PROFILES - Sewer Elev. See Bk. - 694

LEGEND
A - EXISTING SANITARY SEWER
S - PROPOSED SANITARY SEWER
X - EXISTING STORM SEWER
R - PROPOSED STORM SEWER
W - WATER
G - GAS



NOTE: All manholes shall be located 5 ft. from E of street unless otherwise specified.



DIGITAL STATUS
DRAWN ON: 4/18/85
BY: EDVA
CHECKED: VC
DATE: 7/55

JOB #2207-R
S.W. Dist #326

M.D.H. Permit No. M422 2-14-56

DR. BY R.W.M.	DATE 6/55	SHEET NO. 3411
TR. BY R.M.H.	7/55	SHELF NO.
CH. BY H.L.	7/55	
REVISIONS	12-57 d.k.	
6-C-1637		
SCALE: HORIZONTAL 1"=40' VERTICAL 1"=4'		

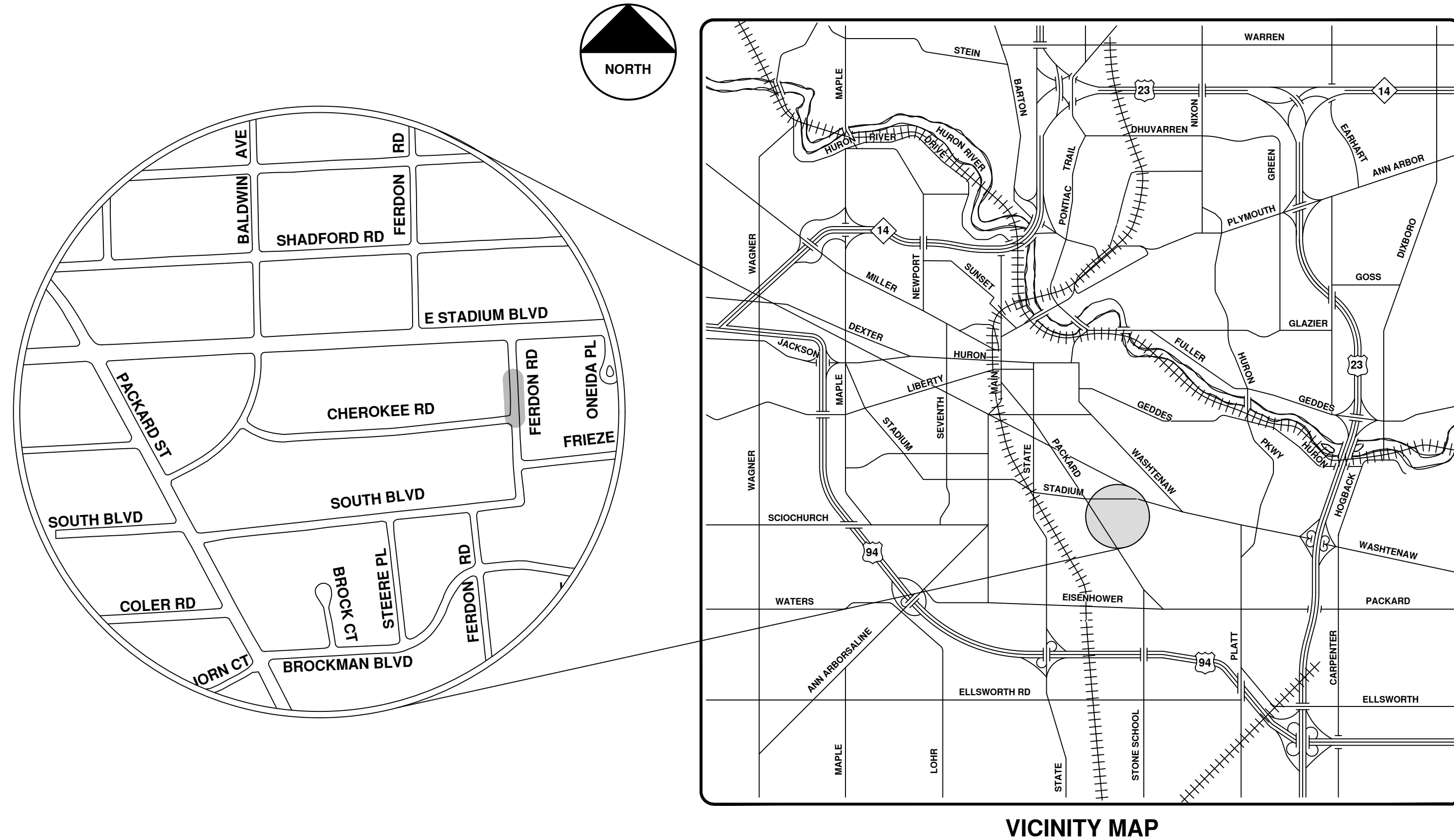
STORM AND SANITARY SEWERS
FAYE DRIVE
CARBECK DRIVE TO LEONA DRIVE
GEO. H. SANDENBURGH CITY ENGINEER
CITY ENGINEER'S OFFICE - ANN ARBOR, MICHIGAN

PREPARED BY McNAMEE, PORTER AND SEELEY CONSULTING ENGINEERS



2022 SEWER LINING PROJECT

INTERSECTION OF FERDON RD & CHEROKEE RD



VICINITY MAP

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		DATE	12/10/21
		DRAWN	ARG
		CHECKED	IK



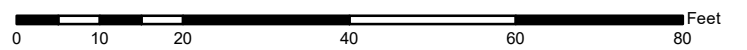
City of Ann Arbor

Intersection of Ferdon Rd & Cherokee Rd

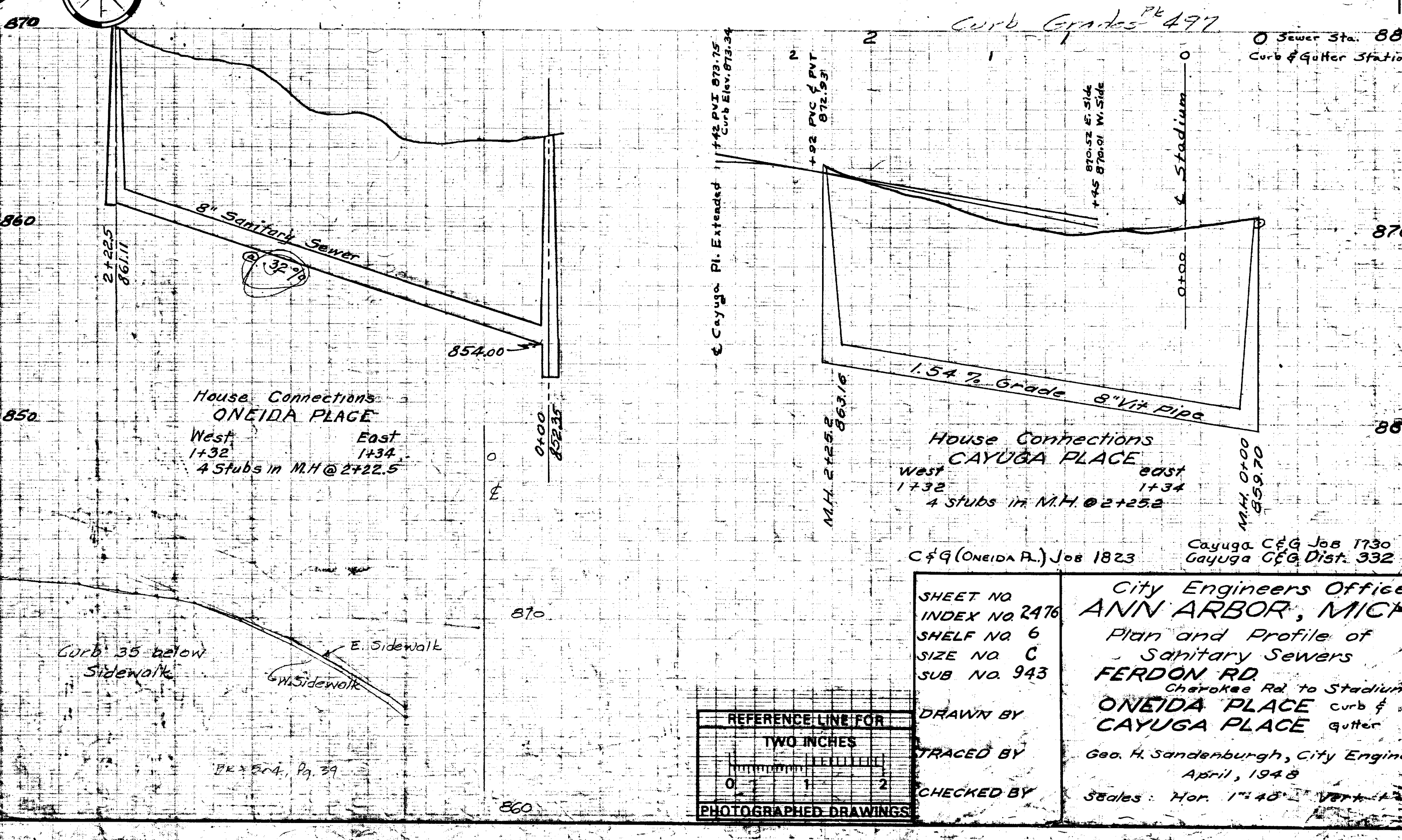
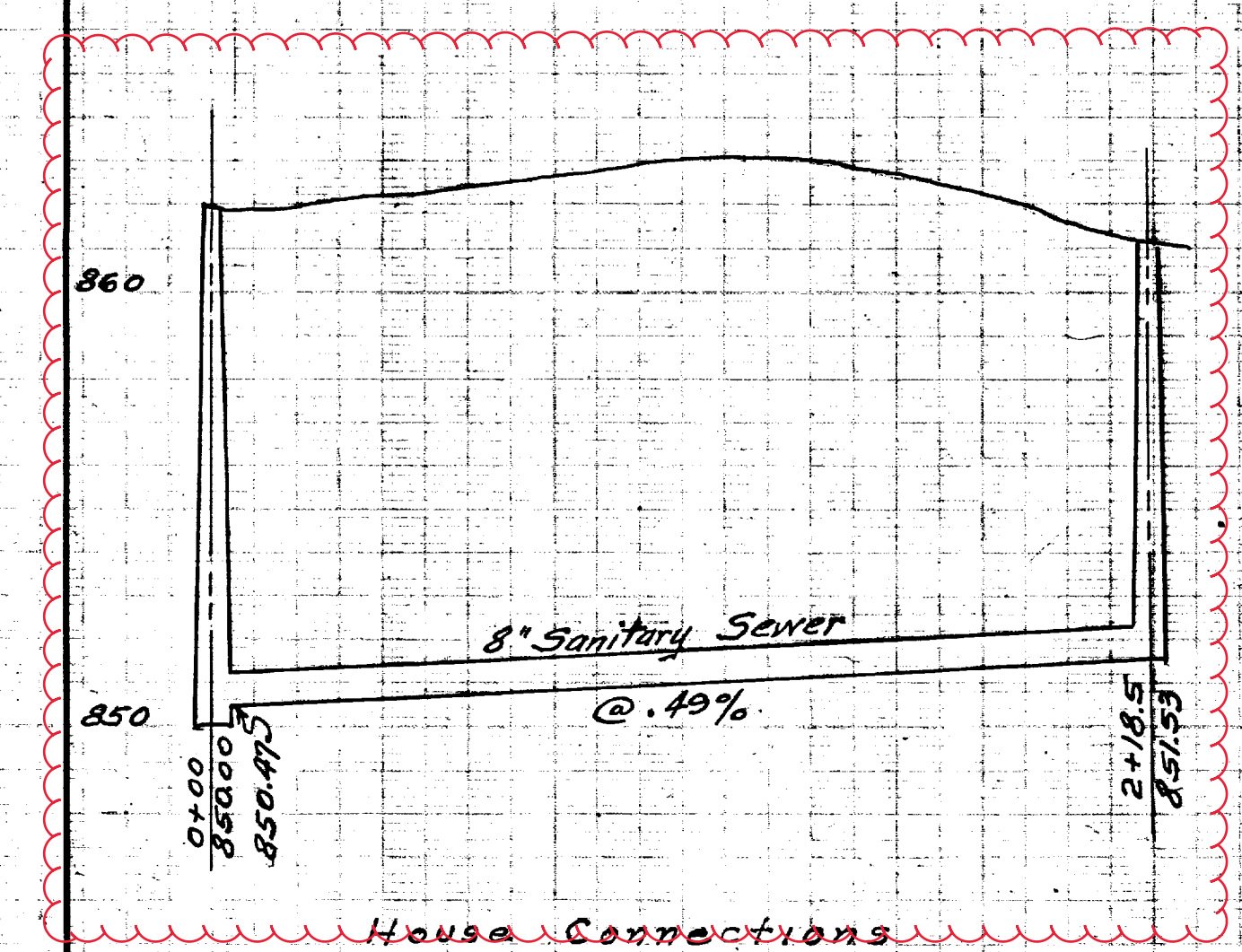
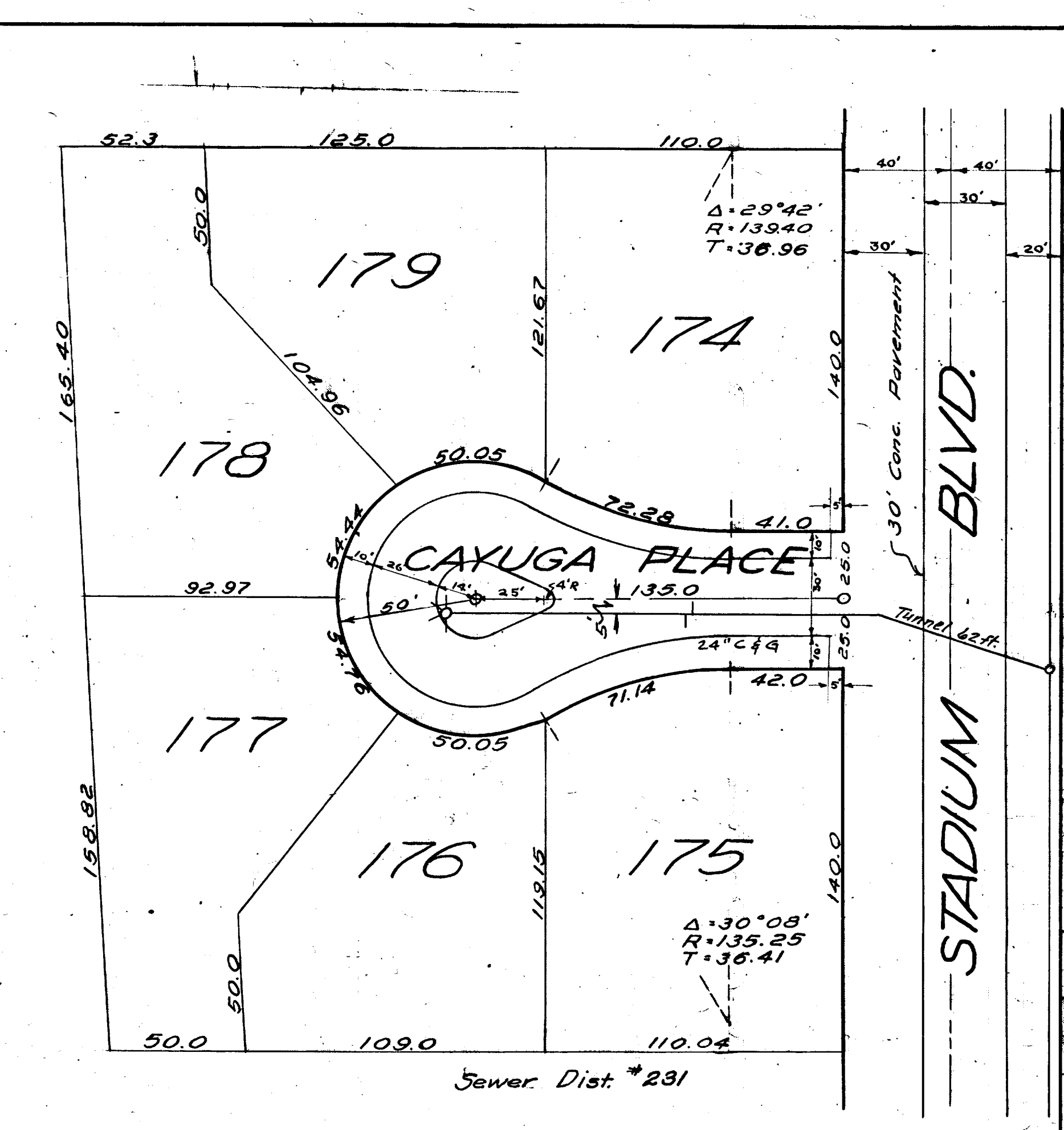
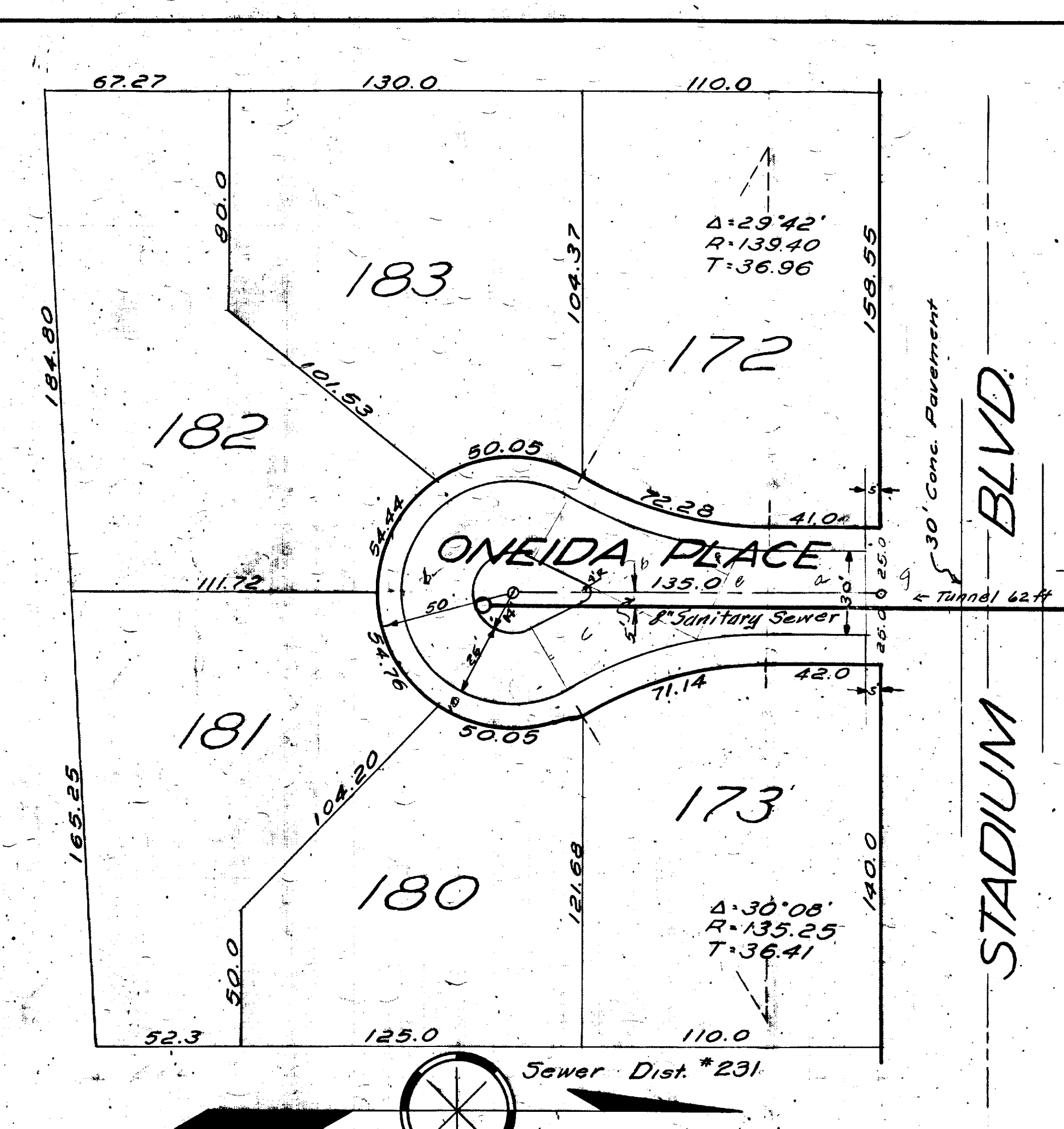
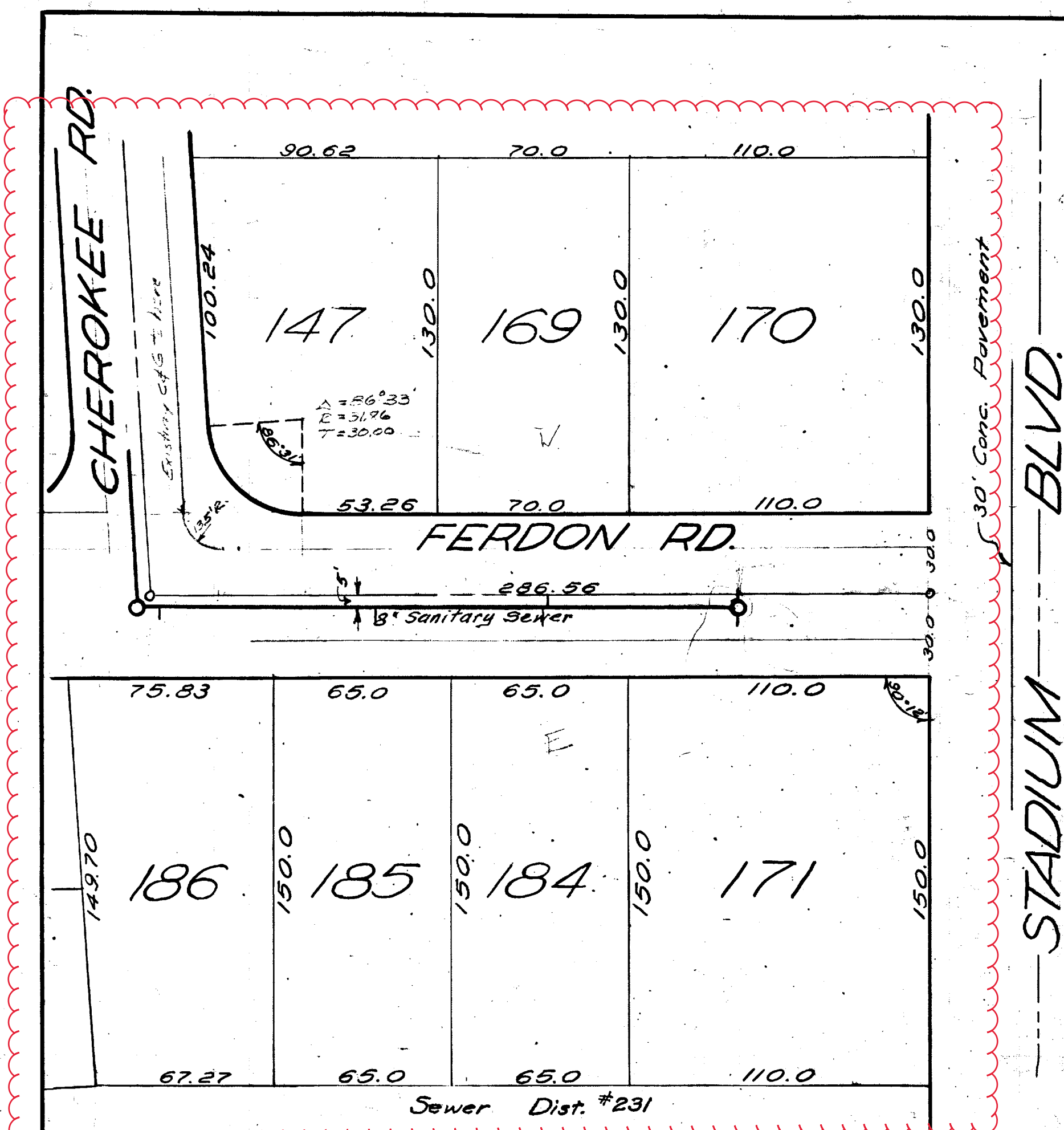


-  Manholes
-  Sanitary Main
-  Proposed Lining
-  Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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House Connections
FERDON RD.
2' Risers

West	East
1+50	0+13
	0+87
	1+48

E. & W. Stubs in M.H. @ 2+18.5

House Connections
ONEIDA PLACE

West	East
1+32	1+34

4 Stubs in M.H. @ 2+22.5

House Connections
CAYUGA PLACE

West	East
1+32	1+34

4 Stubs in M.H. @ 2+25.2

Digital Status
Scanned On: 3-7-05
By: DGM
Despeckled: Yes
Vectors:
O.C.R.:

REFERENCE LINE FOR
TWO INCHES
PHOTOGRAPHED DRAWINGS

SHEET NO. INDEX NO. 2476
SHELF NO. 6
SIZE NO. C
SUB NO. 943

**CITY ENGINEERS OFFICE
ANN ARBOR, MICH.**

Plan and Profile of
Sanitary Sewers
FERDON RD.
Cherokee Rd. to Stadium
ONEIDA PLACE curb &
CAYUGA PLACE gutter

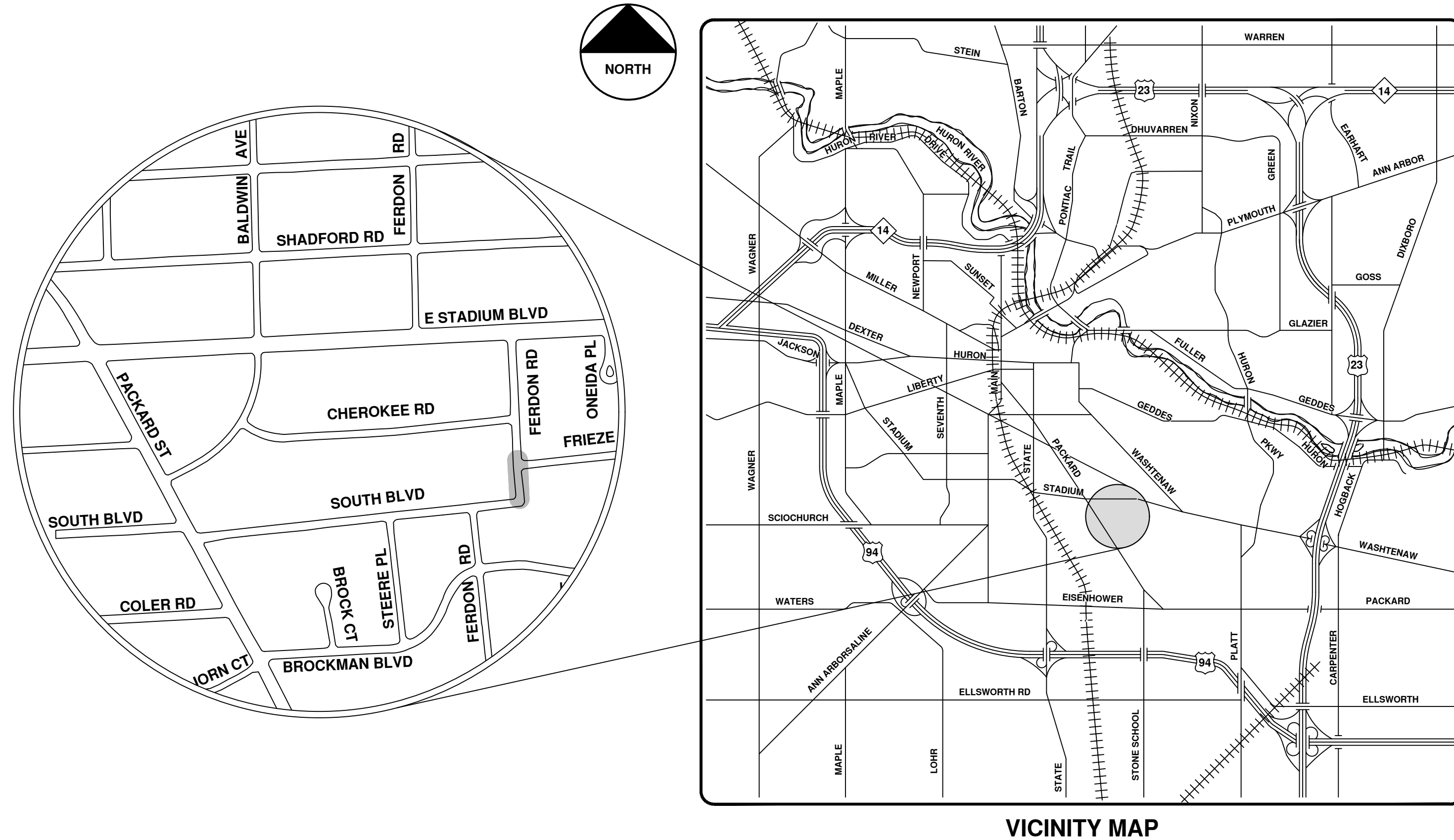
Geo. H. Sandenburgh, City Engineer
April, 1948
Scale: Hor. 1" = 40' Vert. 1" = 4'

DRAWN BY
TRACED BY
CHECKED BY



2022 SEWER LINING PROJECT

INTERSECTION OF FERDON RD & FRIEZE AVE



VICINITY MAP

R:\2022011 Sewer Lining 2022\Plan Production\2022011CovSan.dwg - _o2_standard bw.stb - Plot Date: 12/7/2021 10:37:22 AM



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00	BID SET	12/10/21	ARG	IK

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SCALE
 DRAWING No.
 2022011-39

SHEET No.
 39 OF 105

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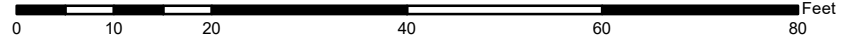
City of Ann Arbor

Intersection of Ferdon Rd. & Frieze Ave.

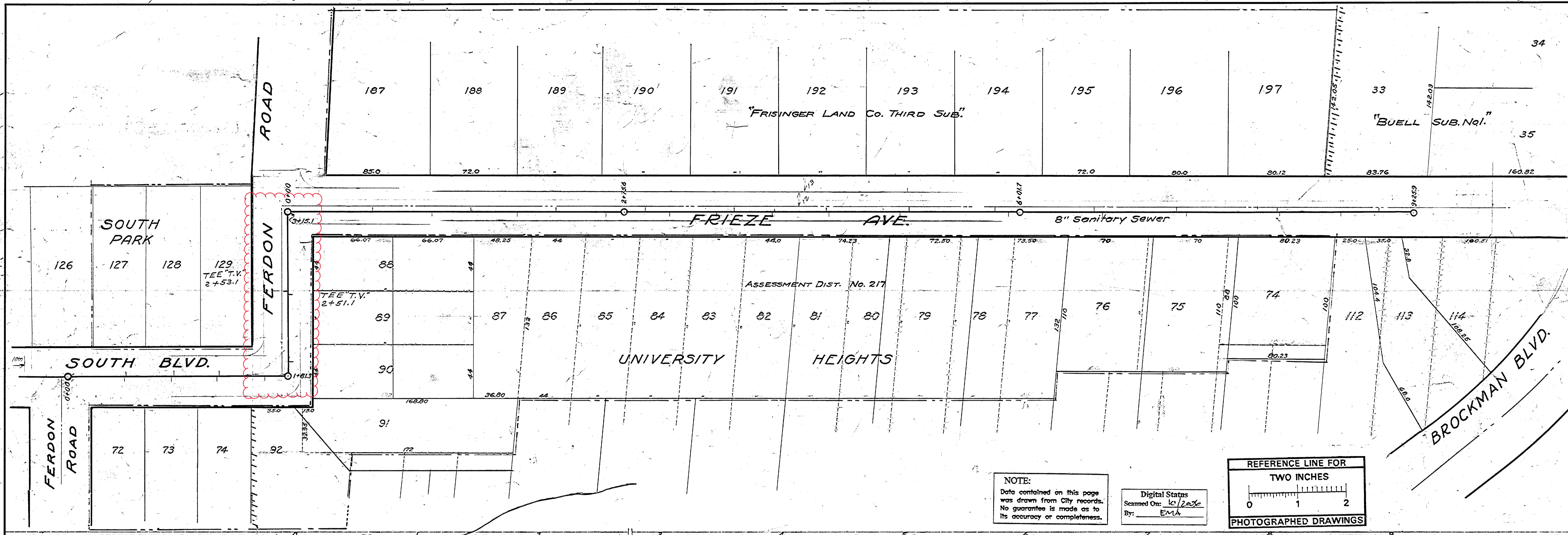


	Manholes		Sanitary Main
	Proposed Lining		

71-XXXXX (Manhole ID)
 X.XX (Manhole Depth)

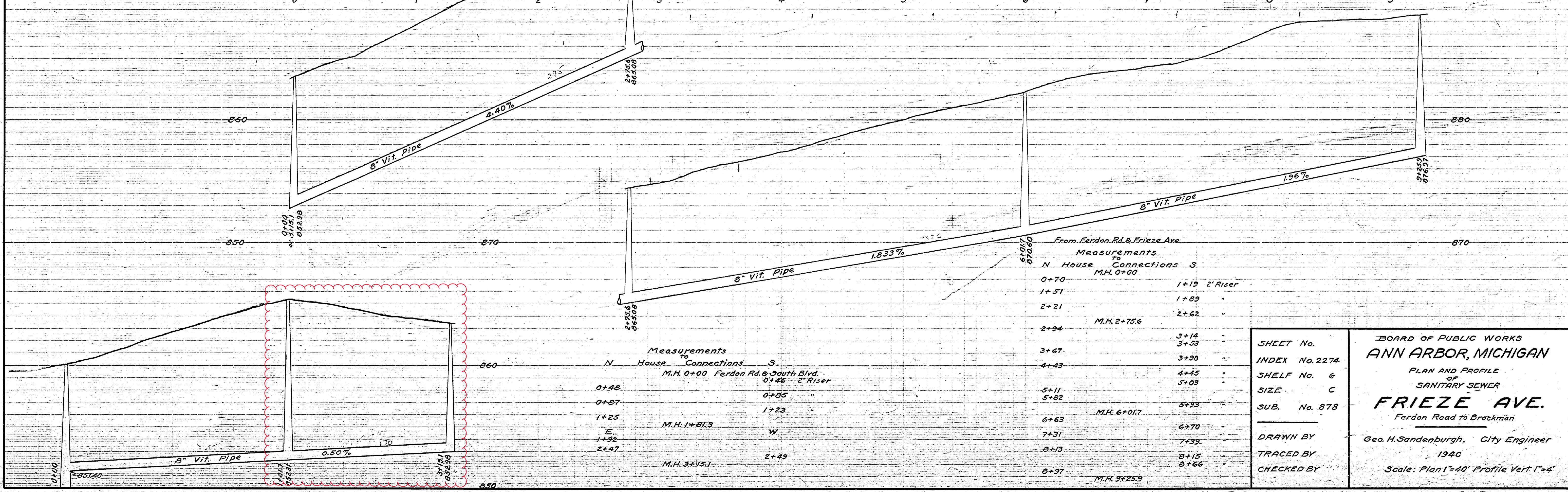
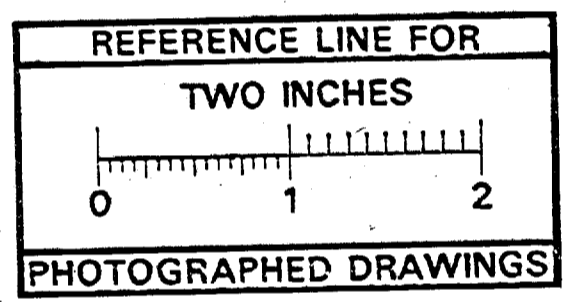


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Measurements
N House Connections S
M.H. 0+00 Ferdon Rd. & South Blvd.
2' Riser

0+48	0+85
0+87	1+23
1+25	M.H. 1+81.3
1+92	W
2+47	M.H. 3+15.1

From Ferdon Rd. & Frieze Ave.
Measurements
N House Connections S
M.H. 0+00

0+70	1+19	2' Riser
1+51	1+89	"
2+21	2+62	"
2+94	M.H. 2+75.6	"
3+67	3+14	"
4+43	3+53	"
5+11	4+45	"
5+82	5+03	"
6+63	M.H. 6+01.7	5+93
7+31	6+70	"
8+13	7+39	"
8+97	8+15	"
	8+66	"
	M.H. 9+25.9	"

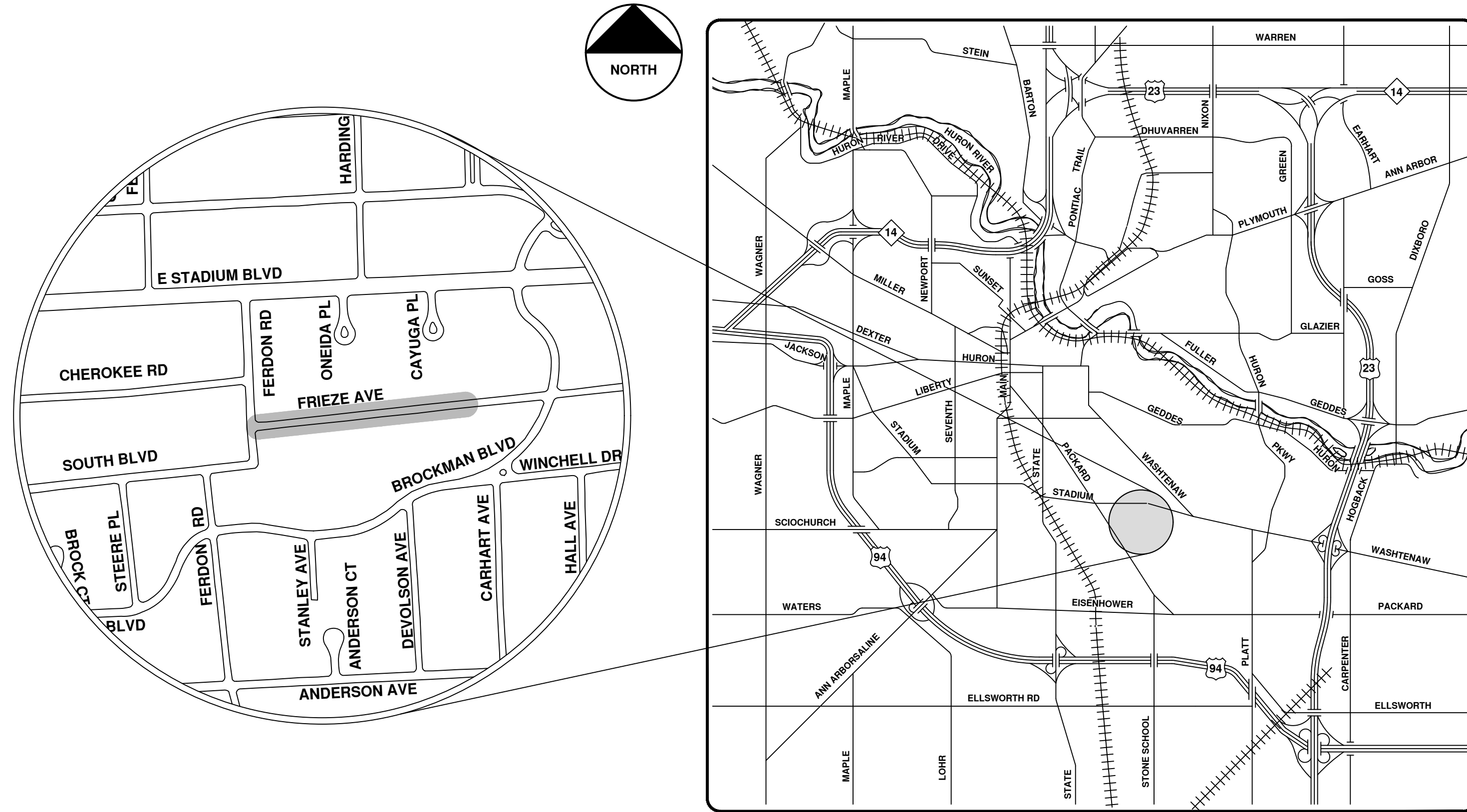
SHEET No.
INDEX No. 227A
SHELF No. 6
SIZE C
SUB. No. 878
DRAWN BY
TRACED BY
CHECKED BY

BOARD OF PUBLIC WORKS
ANN ARBOR, MICHIGAN
PLAN AND PROFILE
OF
SANITARY SEWER
FRIEZE AVE.
Ferdon Road to Brockman.
Geo. H. Sandenburgh, City Engineer
1940
Scale: Plan 1"=40' Profile Vert 1"=4'



2022 SEWER LINING PROJECT

FRIEZE AVE



VICINITY MAP

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 CITY OF ANN ARBOR PUBLIC SERVICES
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2022011-42

SHEET No.

42 OF 105

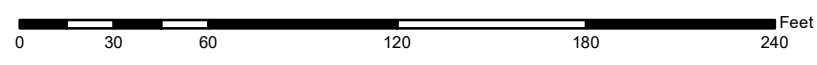


Frieze Ave.



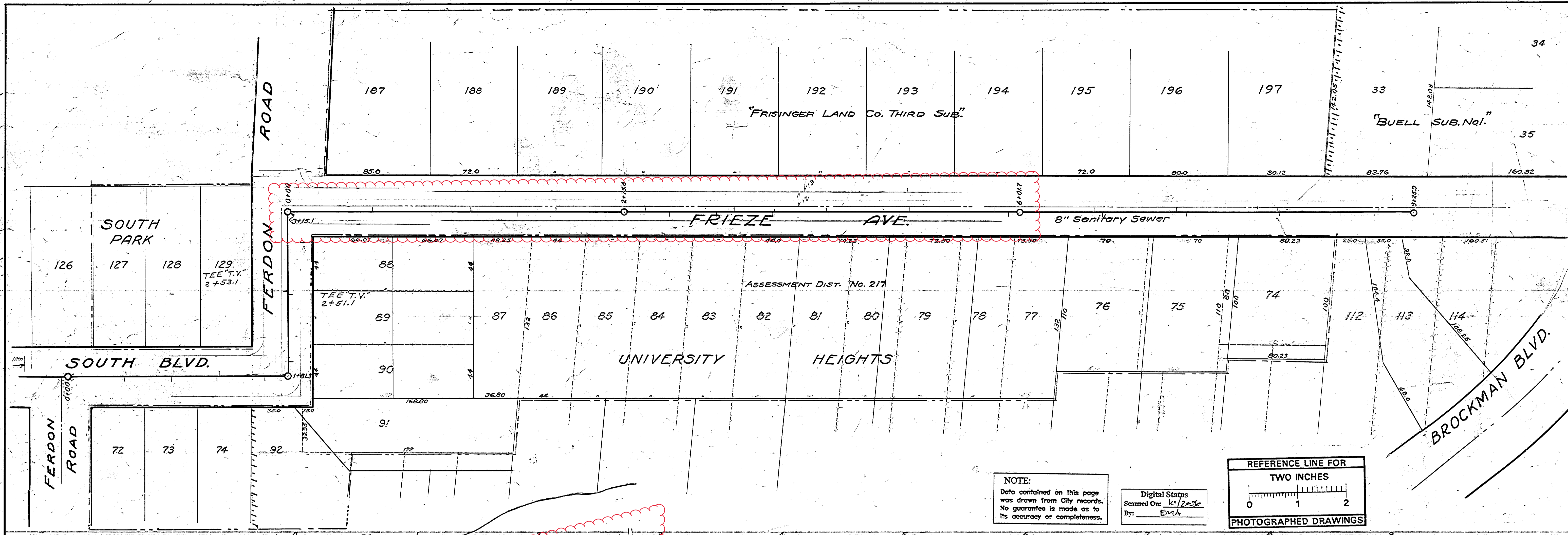
	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
 X.XX (Manhole Depth)



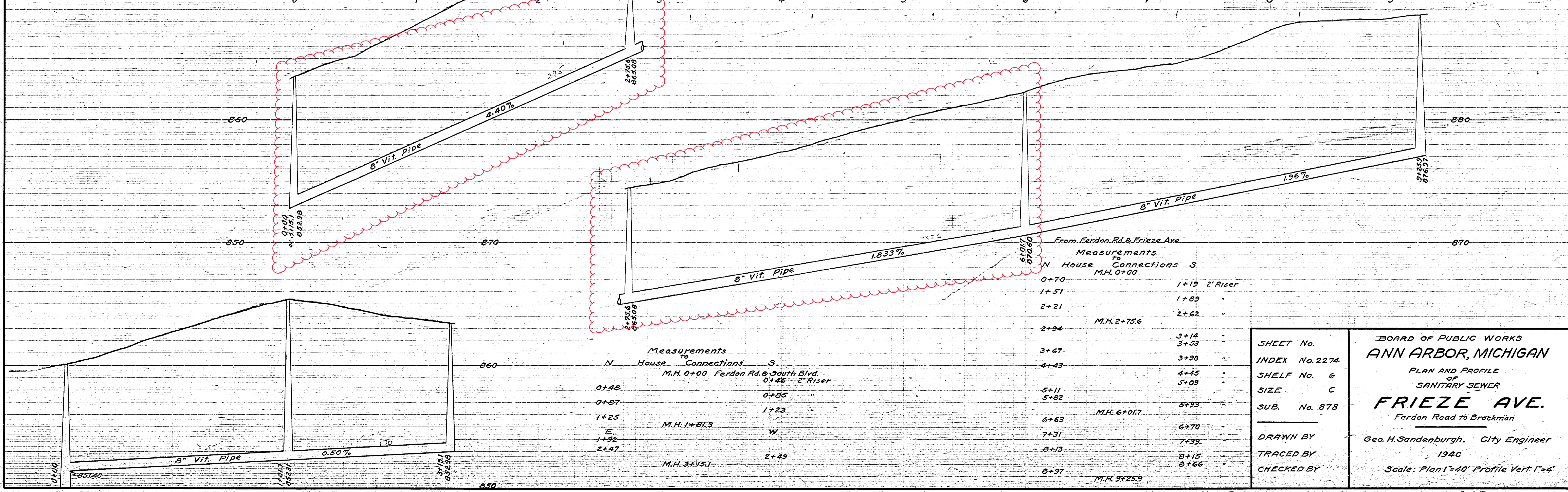
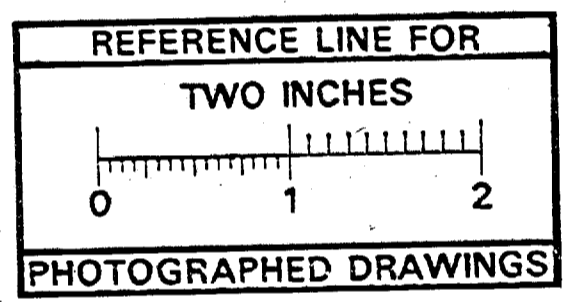
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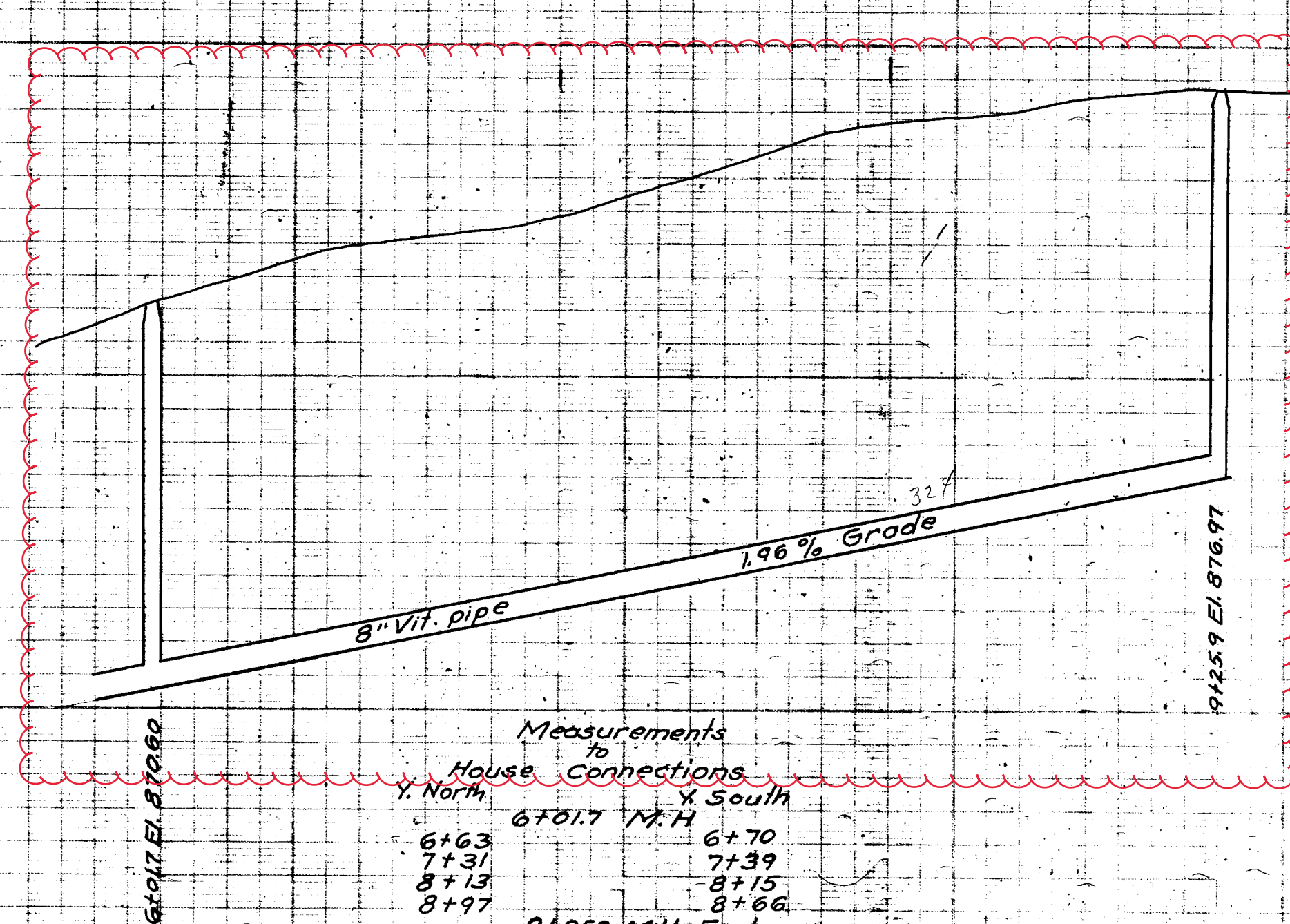
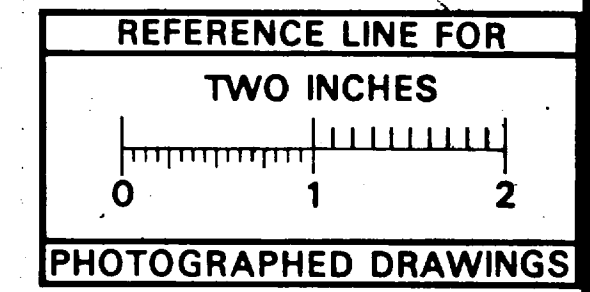
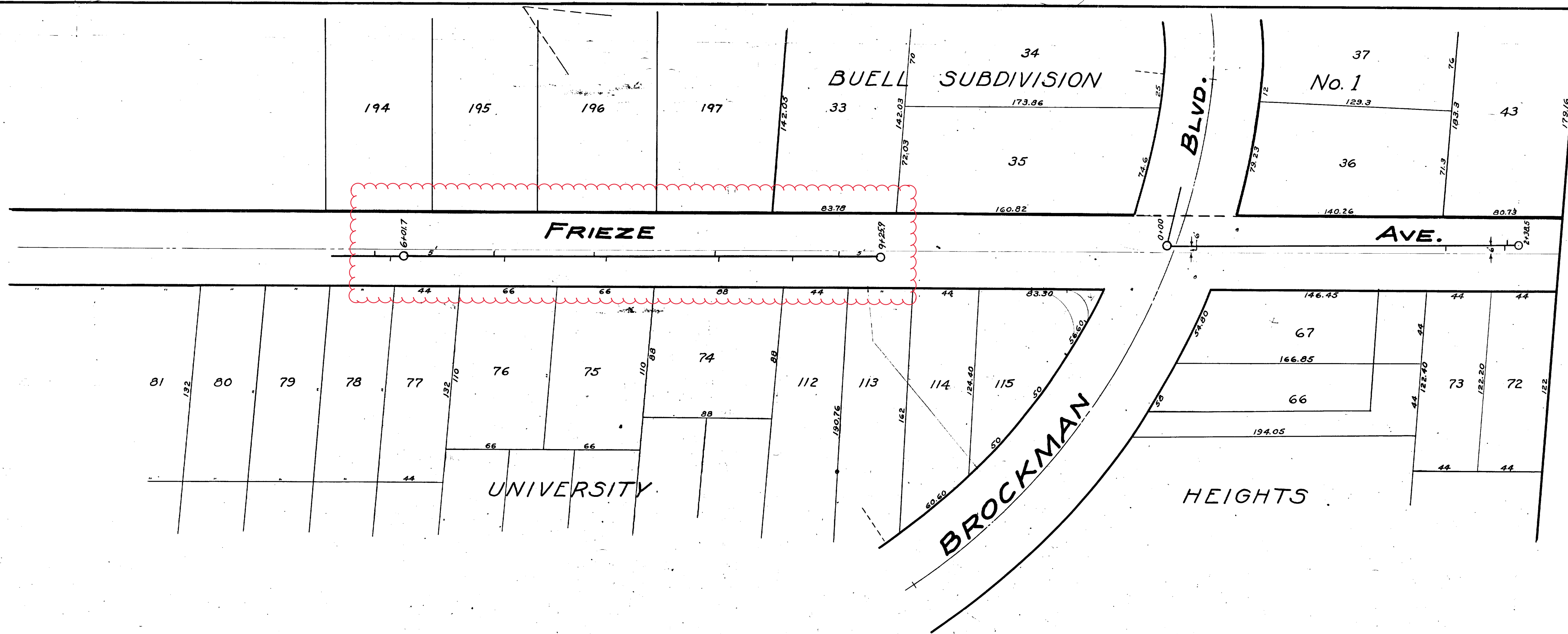


Measurements
N House Connections S
M.H. 0+00 Ferdon Rd. & South Blvd.
0+48 0+85
1+25 M.H. 1+81.3
1+92 E
2+47 W
M.H. 3+15.1

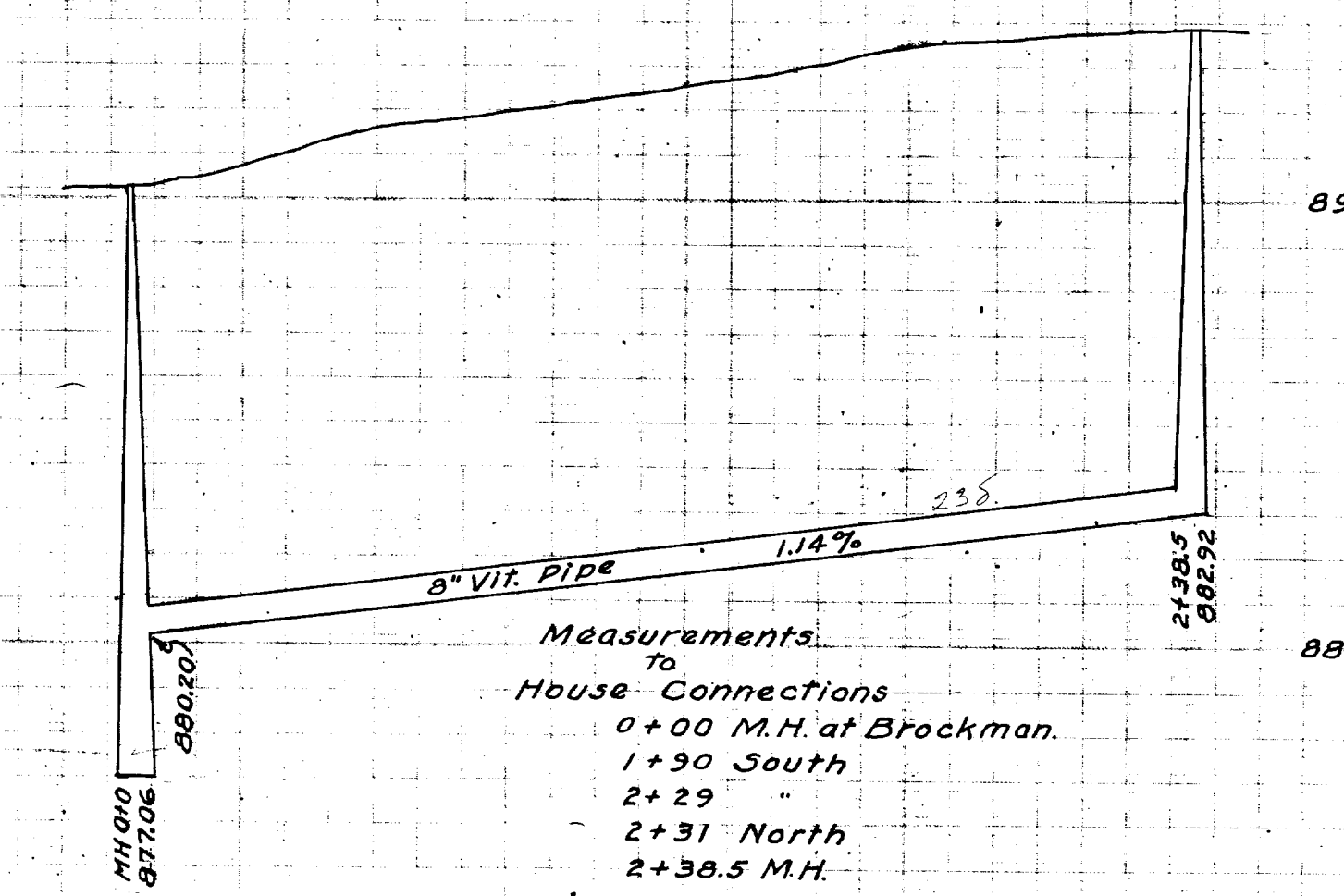
From Ferdon Rd. & Frieze Ave.
Measurements
N House Connections S
M.H. 0+00
0+70 1+19 2' Riser
1+51 1+89
2+21 2+62
2+94 M.H. 2+75.6
3+67 3+14
4+43 3+53
5+11 4+45
5+82 5+03
6+63 M.H. 6+01.7
7+31 6+70
8+13 7+39
8+97 8+15
M.H. 9+25.9 8+66

SHEET No.
INDEX No. 227A
SHELF No. 6
SIZE C
SUB. No. 878
DRAWN BY
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BOARD OF PUBLIC WORKS
ANN ARBOR, MICHIGAN
PLAN AND PROFILE
OF
SANITARY SEWER
FRIEZE AVE.
Ferdon Road to Brockman.
Geo. H. Sandenburgh, City Engineer
1940
Scale: Plan 1"=40' Profile Vert 1"=4'



Measurements
to
House Connections
Y. North X. South
6+63 6+70
7+31 7+39
8+13 8+15
8+97 8+66
9+259 M.H. End



Measurements
to
House Connections
0+00 M.H. at Brockman.
1+30 South
2+29
2+31 North
2+38.5 M.H.

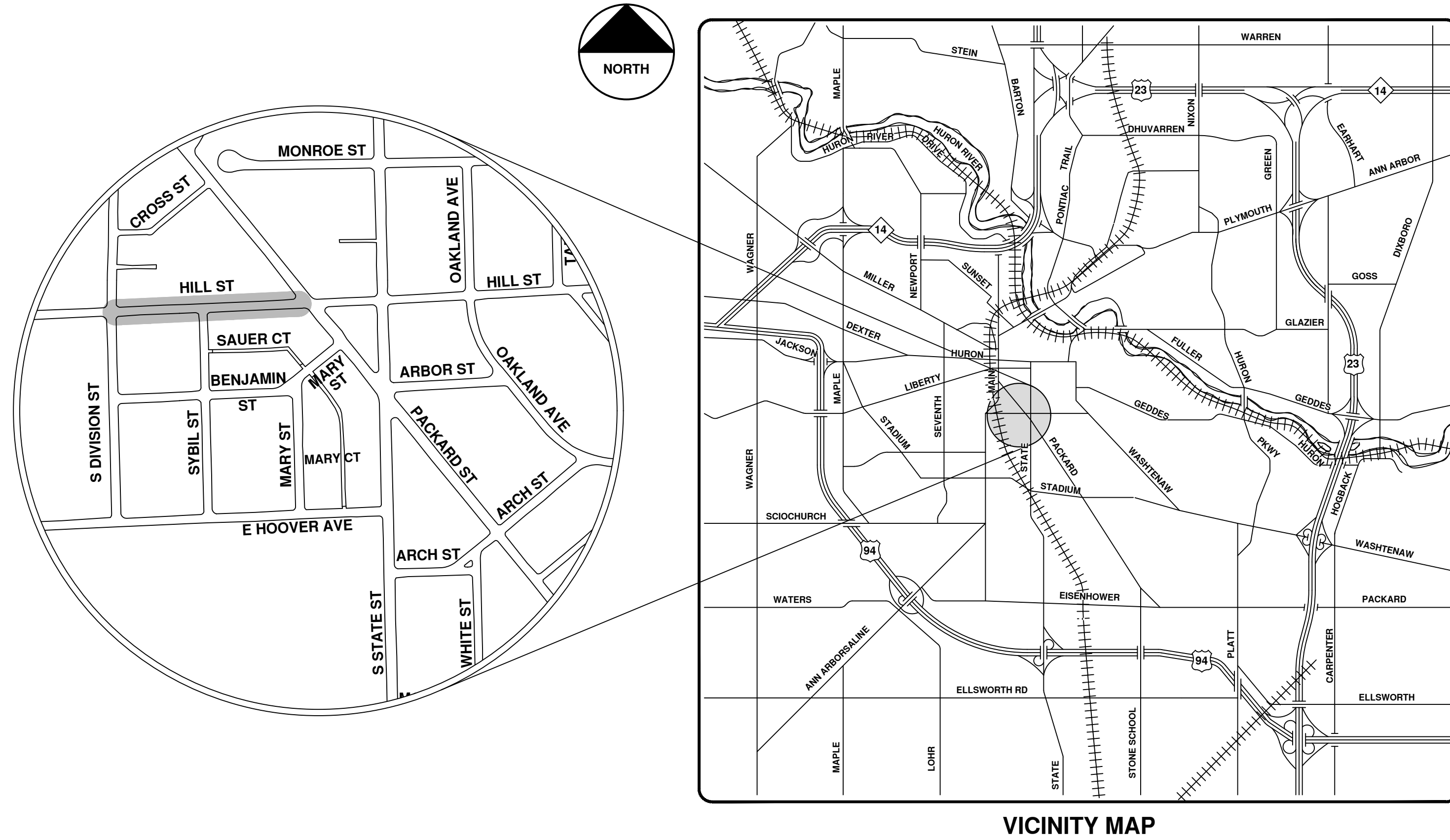
Digital Status
Scanned On: 2-25-05
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

SHEET No.	BOARD OF PUBLIC WORKS
INDEX No. 2279	ANN ARBOR, MICHIGAN
SHELF No. 6	PLAN AND PROFILE
SIZE C	OF
SUB. No. 881	SANITARY SEWER
	FRIEZE AVE.
	Brockman Blvd. E'ly to end.
DRAWN BY	Geo. H. Sandenburgh, City Engineer
TRACED BY	1940
CHECKED BY	Scale: Plan 1"=40' Profile Vert. 1"=4'




2022 SEWER LINING PROJECT

HILL ST



VICINITY MAP

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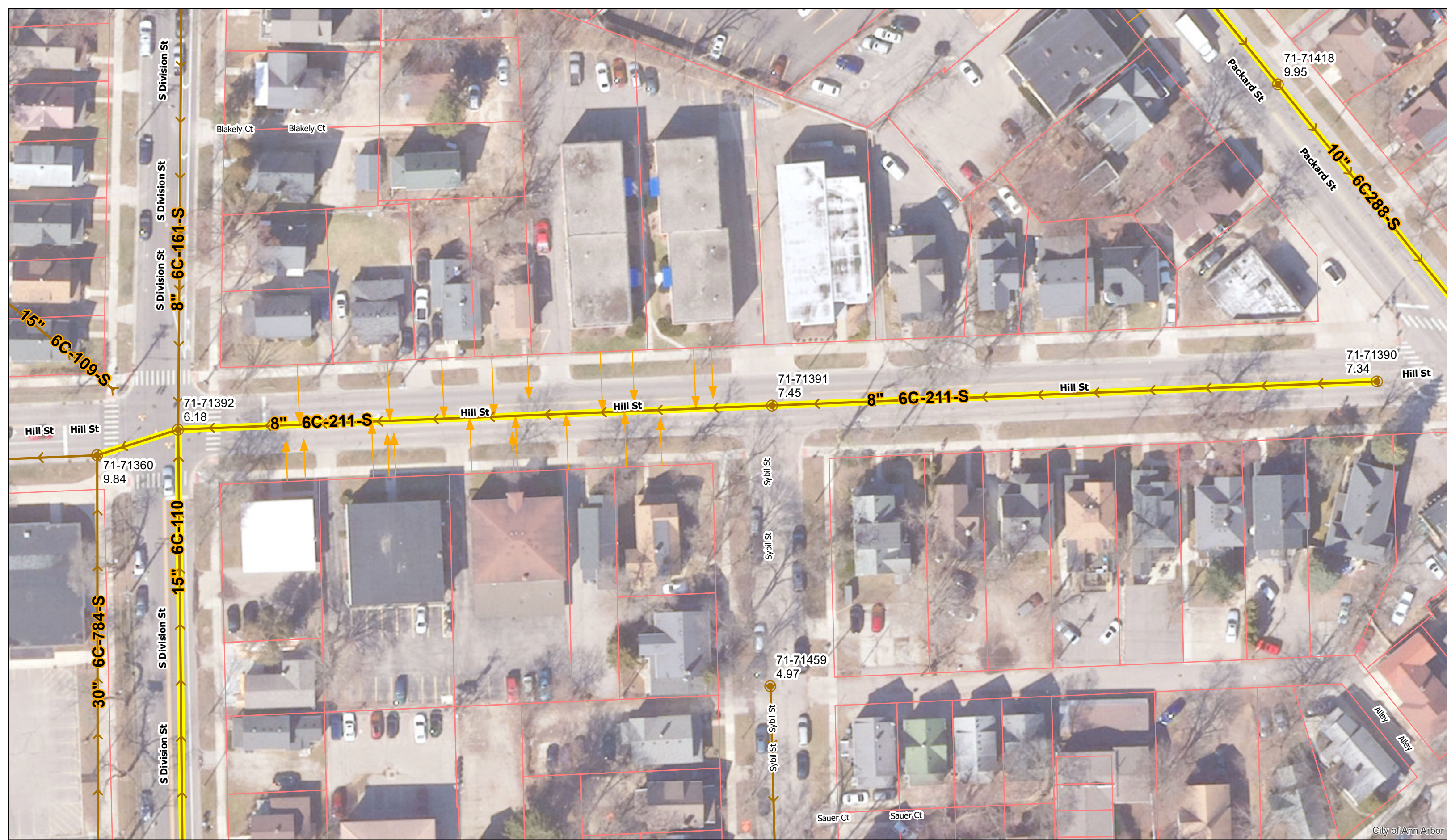
SCALE

DRAWING No. 2022011-46

SHEET No. 46 OF 105

CITY OF ANN ARBOR PUBLIC SERVICES
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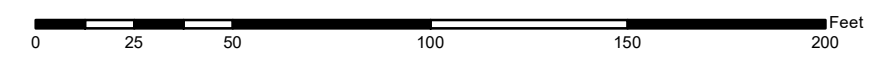


Hill St.



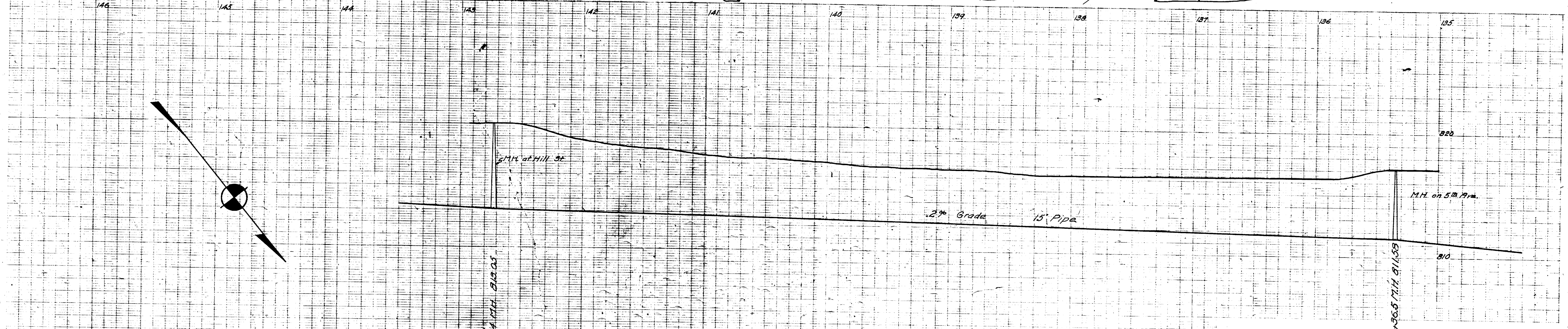
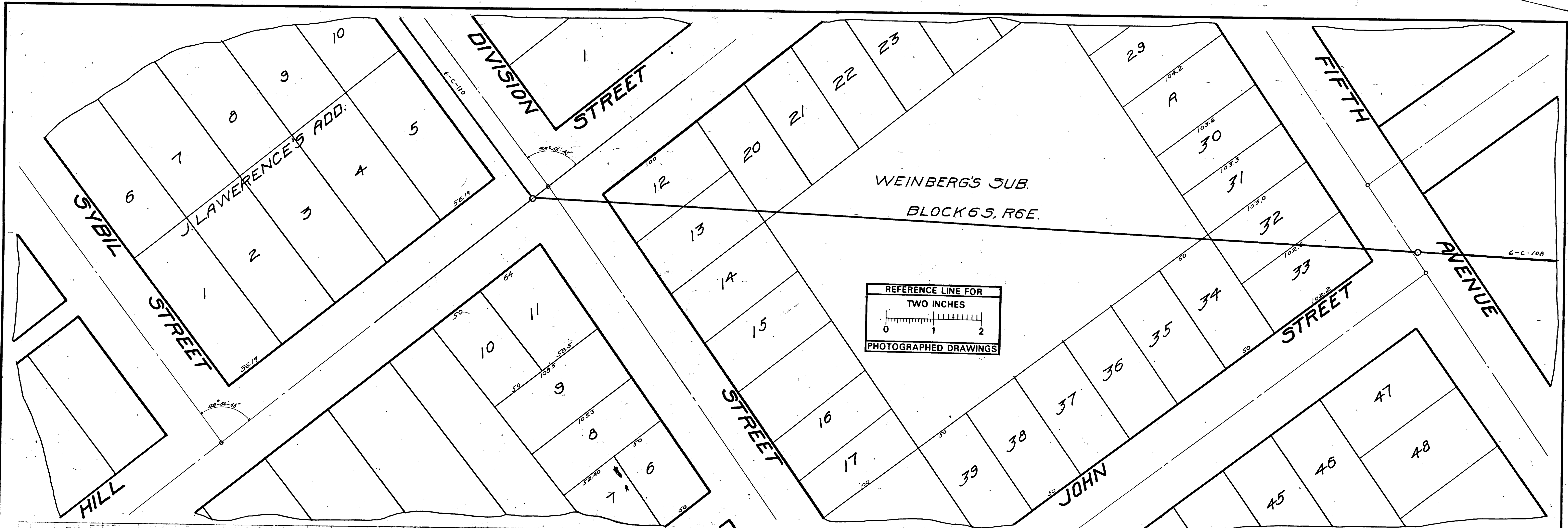
	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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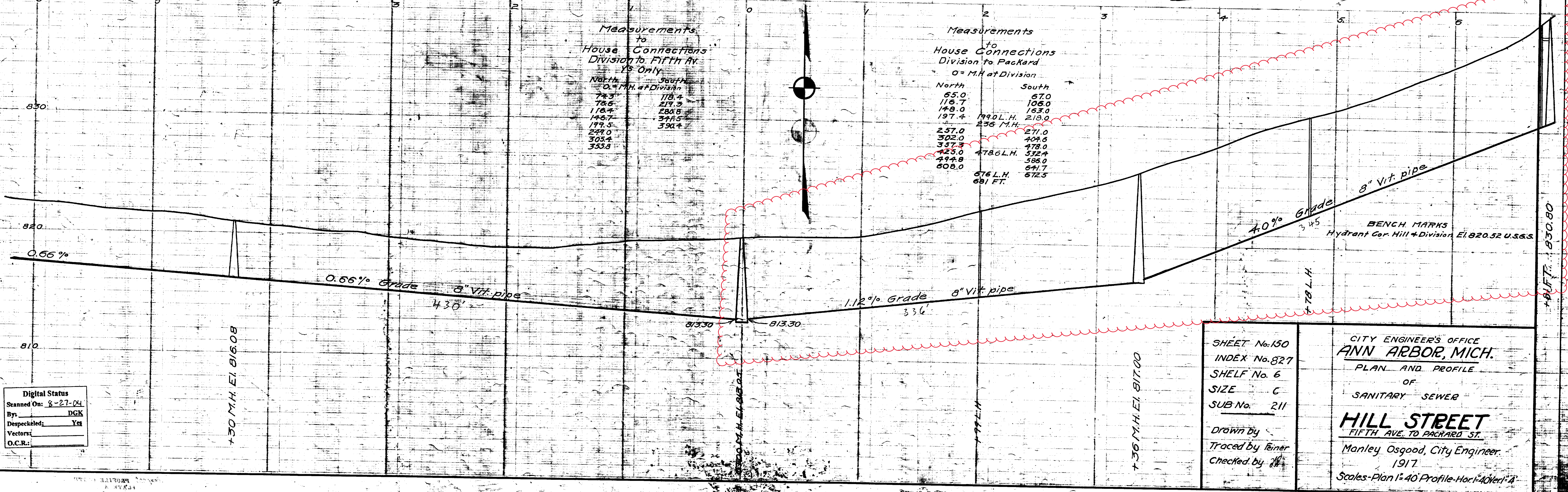
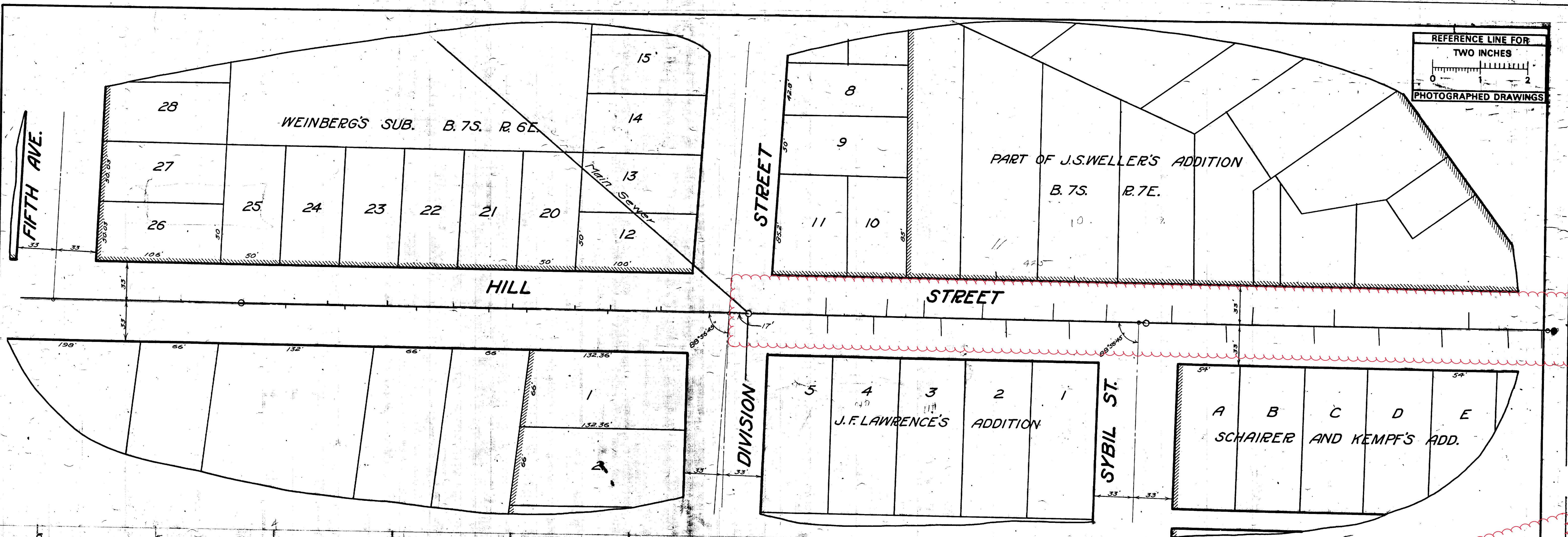
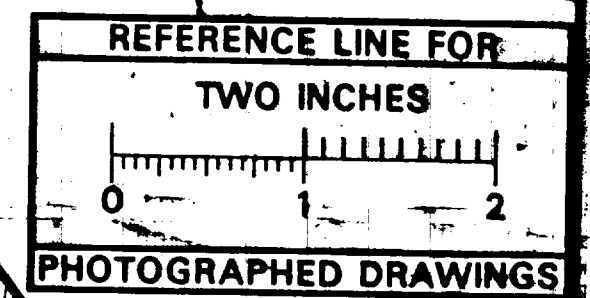
City of Ann Arbor



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SHEET No. 13
 INDEX No. 721
 SHELF No. 6
 SIZE C
 SUB No. 109
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 Checked by

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
 PLAN AND PROFILE
 OF
MAINSANITARY SEWER
 JOHN ST TO DIVISION ST.
 Manley Osgood City Engineer.
 1918
 Scales Plan 1"=40' Profile Hor. 1"=40' Vert. 1"=4'



Measurements to House Connections Division to Fifth Av. Ys Only

North	South
74.3	118.4
76.6	219.3
116.4	284.8
146.7	344.5
199.5	394.4
249.0	
305.4	
353.8	

Measurements to House Connections Division to Packard 0 = M.H. at Division

North	South
65.0	67.0
116.7	106.0
149.0	163.0
197.4	190 L.H. 218.0
	236 M.H.
257.0	271.0
302.0	404.6
337.3	478.0
423.0	512.4
494.8	586.0
608.0	641.7
	676 L.H. 672.5
	691 FT.

Digital Status
Scanned On: 8-27-04
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

SHEET No. 150
INDEX No. 827
SHELF No. 6
SIZE C
SUB No. 211

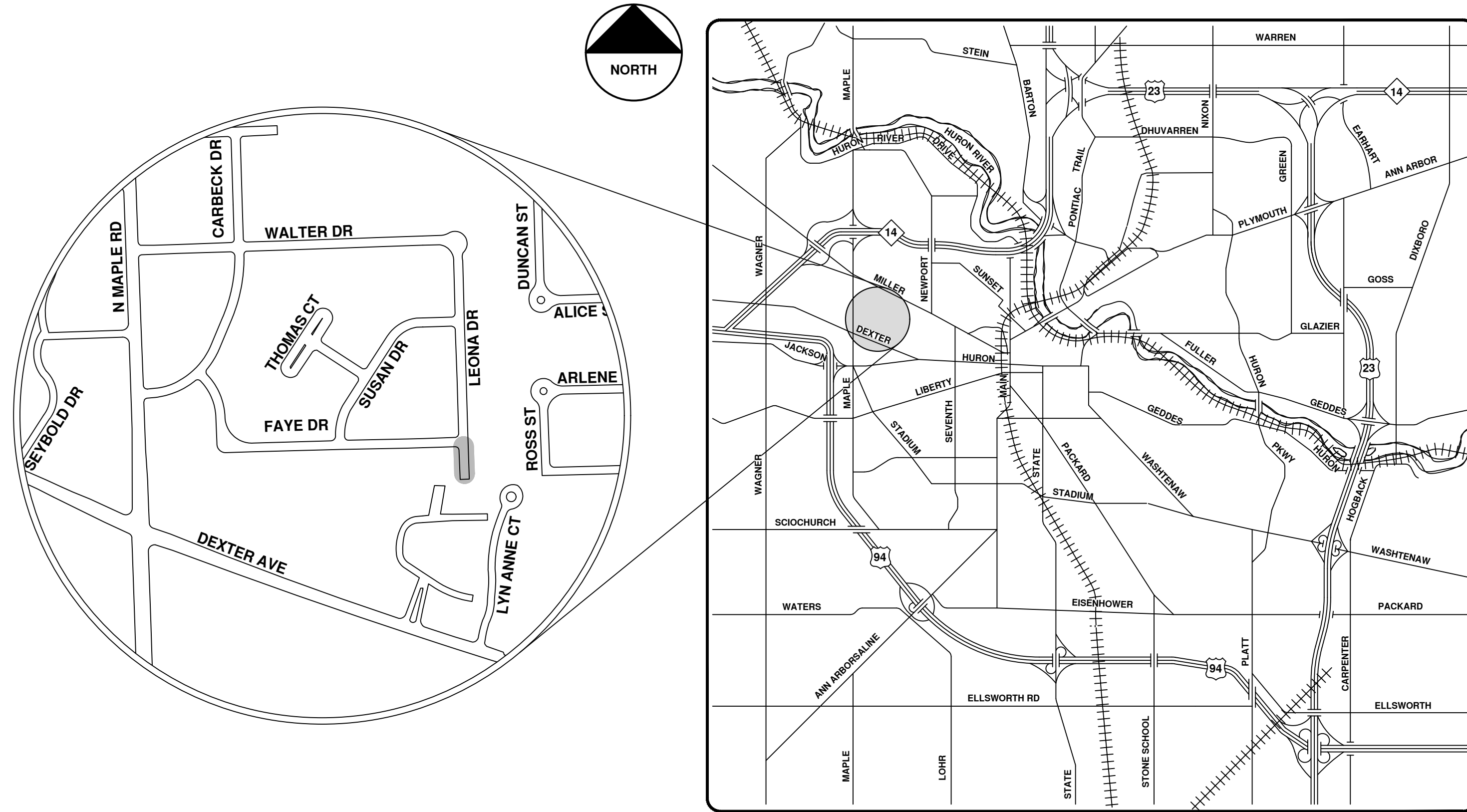
Drawn by
Traced by Feiner
Checked by

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
HILL STREET
FIFTH AVE. TO PACKARD ST.
Manley Osgood, City Engineer.
1917
Scale-Plan 1"=40' Profile-Hor. 1"=40' Vert. 1"=4'



2022 SEWER LINING PROJECT

LEONA DR



VICINITY MAP

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2022011-50

SHEET No.
 50 OF 105

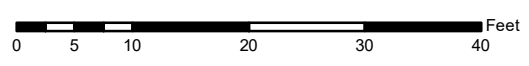


Leona Dr.

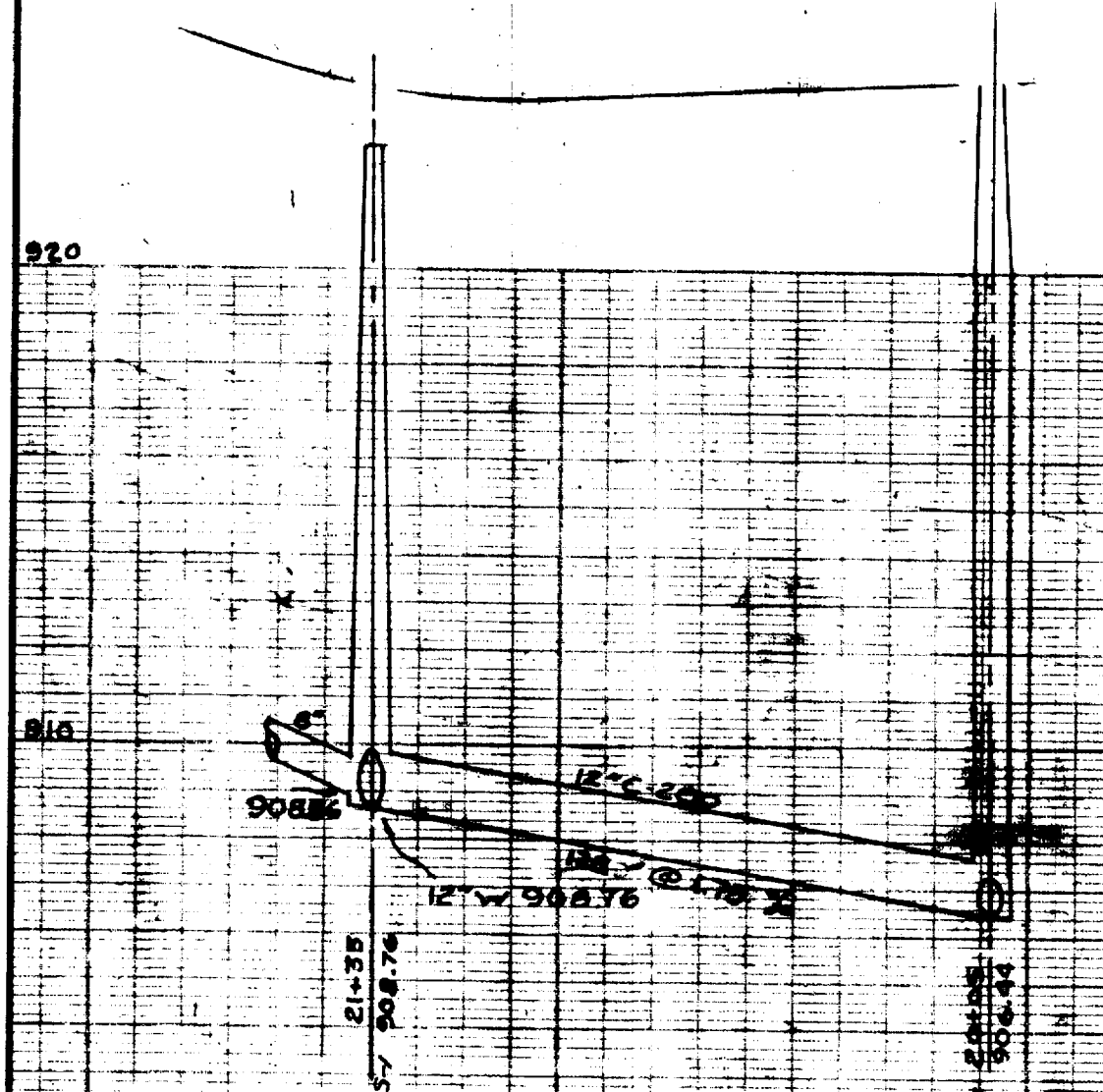
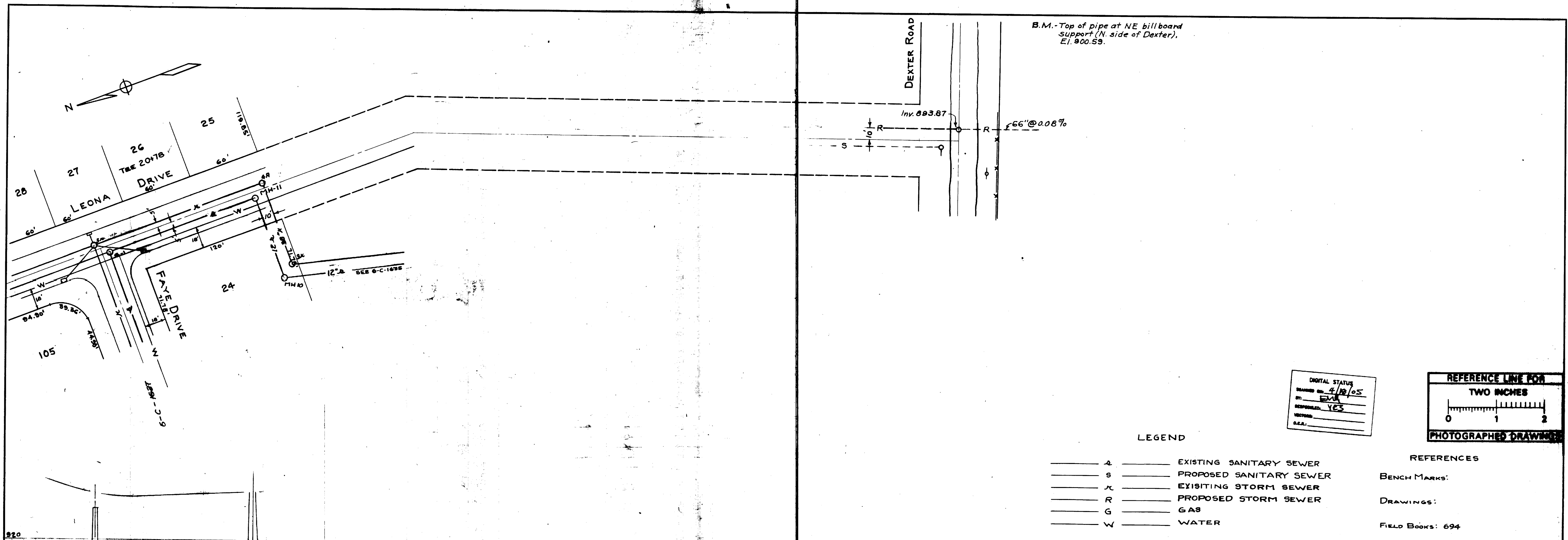


	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

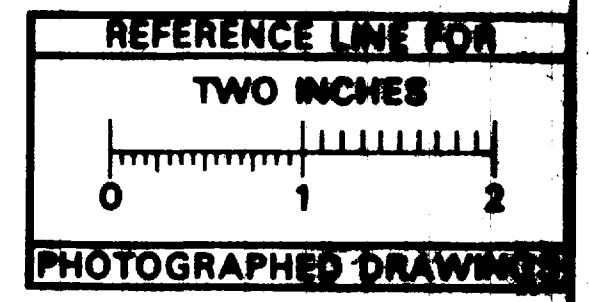
71-XXXXX (Manhole ID)
 X.XX (Manhole Depth)



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DIGITAL STATUS
 DRAWN ON: 4/12/05
 BY: EWA
 RESPONSIBLE: YES
 CHECKED:
 A.S.A.:



LEGEND

- A — EXISTING SANITARY SEWER
- S — PROPOSED SANITARY SEWER
- X — EXISTING STORM SEWER
- R — PROPOSED STORM SEWER
- G — GAS
- W — WATER

- REFERENCES
- BENCH MARKS:
- DRAWINGS:
- FIELD BOOKS: 694

PREPARED BY McNAMEE, PORTER AND SESLEY
 CONSULTING ENGINEERS

JOB 2208-2209 DIST. 326 M.D.H. Permit No. 14122 2-14-55

DR. BY R.W.M. 6/55	DATE 6/55	SHEET NO. 3410
TR. BY R.M.H. 7/55	INDEX NO.	SHELF NO.
CH. BY H.L. 8/55		
REVISIONS	6-C-1633	
A.M. 6/19/50.	SCALE: HORIZONTAL 1"=40' VERTICAL 1"=4'	

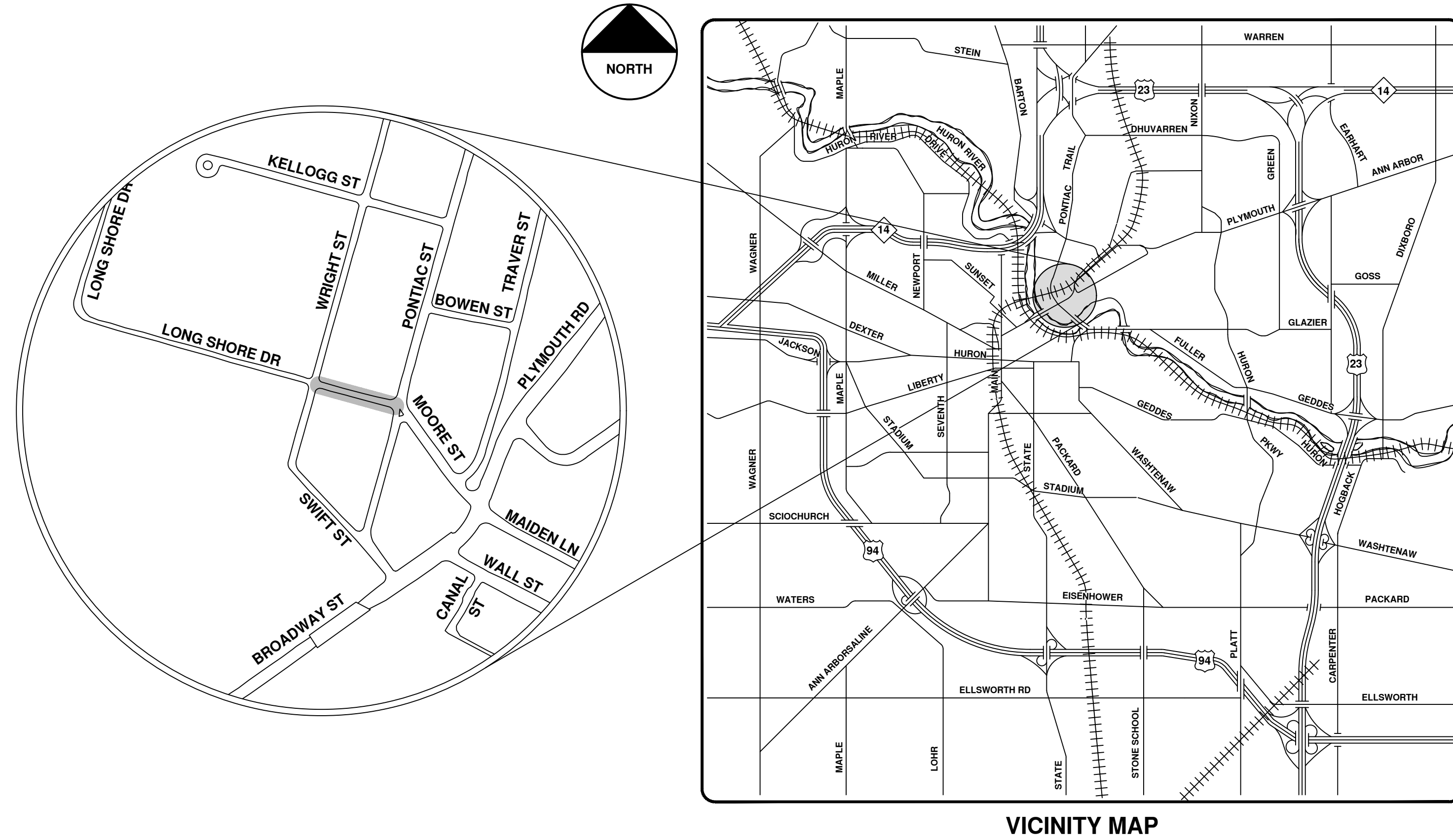
STORM AND SANITARY SEWERS
 LEONA DRIVE
 FAYE DRIVE TO DEXTER ROAD

GEO. H. SANDENBURGH CITY ENGINEER
 CITY ENGINEER'S OFFICE — ANN ARBOR, MICHIGAN



2022 SEWER LINING PROJECT

LONG SHORE DR



VICINITY MAP

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SCALE
 DRAWING No.
 2022011-53

SHEET No.

53 OF 105

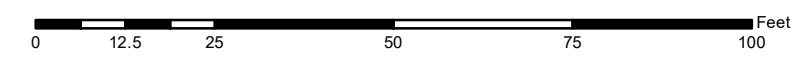


Long Shore Dr.

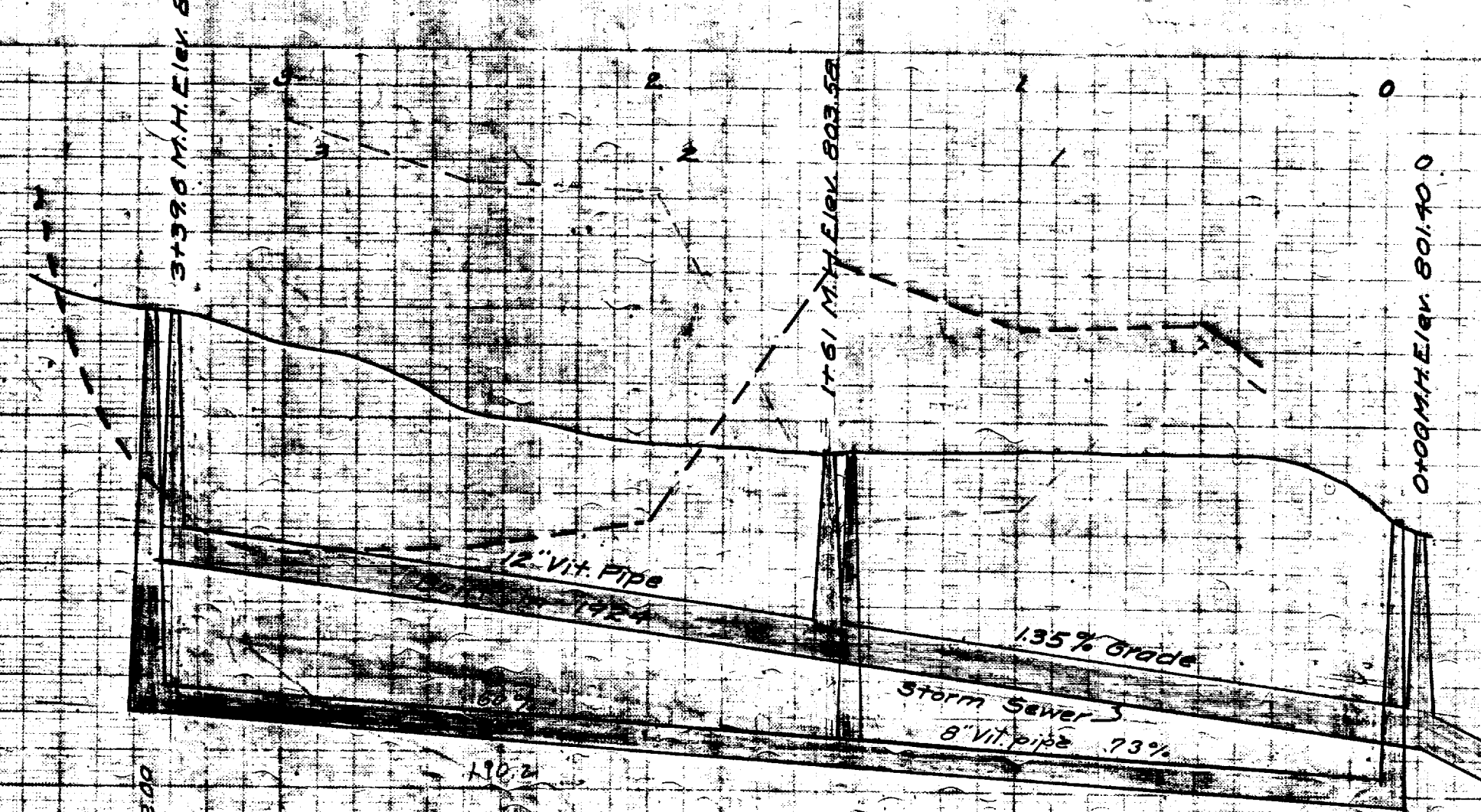
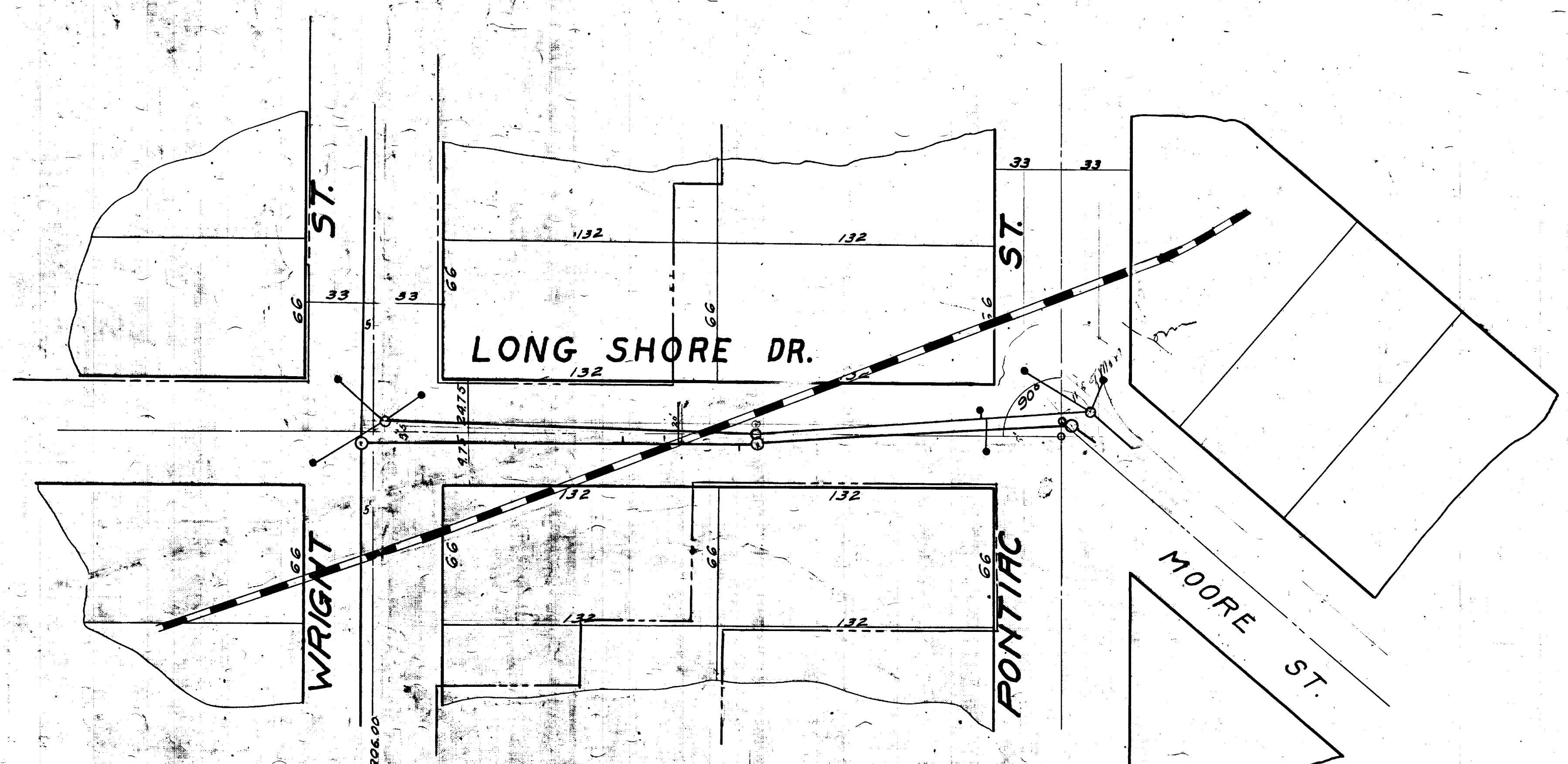


	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



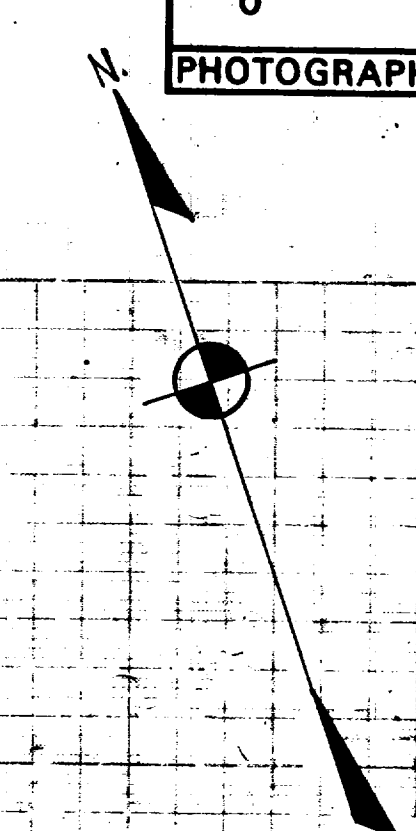
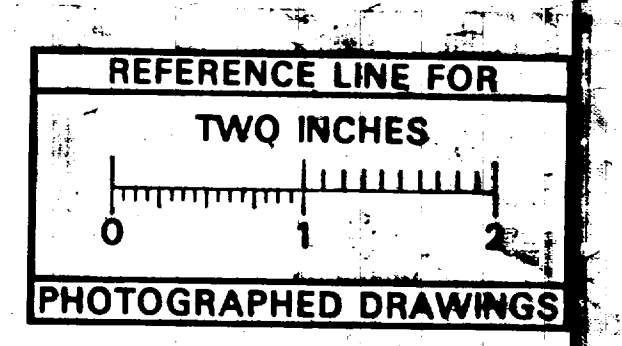
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MEASUREMENTS TO HOUSE CONNECTIONS

North	South
1+87	1+50.8 M.H.
2+18.5 T. only	1+59 T. only
	3+44 M.H. @ Wright

Bench Marks:



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ANN ARBOR, MICH.
 PLAN AND PROFILE
 OF
 STORM AND SANITARY SEWERS
LONG SHORE DRIVE
 FROM WRIGHT ST. TO PONTIAC ST.
 Mantley Osgood City Engineer
 Scales Plan 1"=40' Profile 1"=40' V.P.

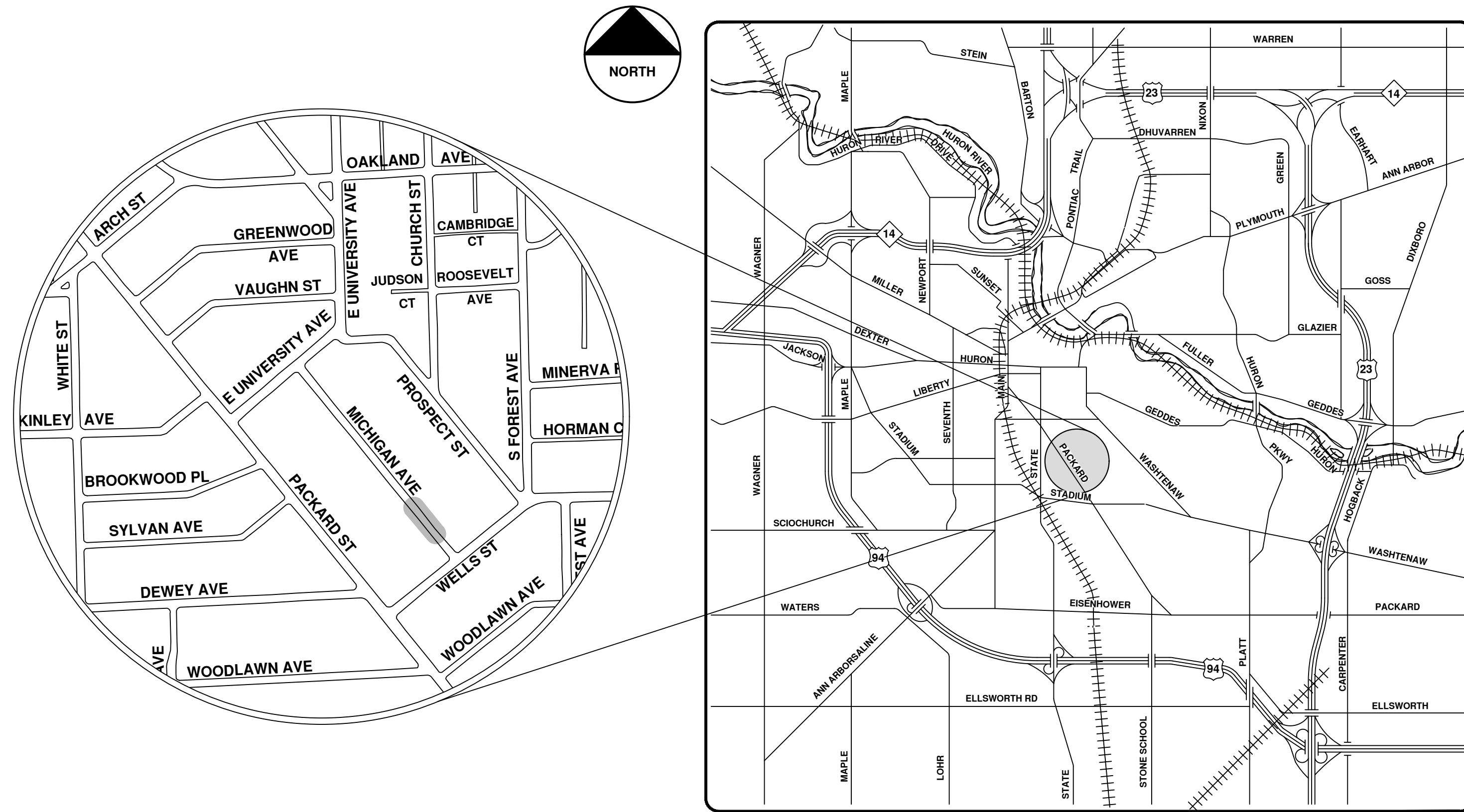
INDEX No. 1110
 SHELF No. 6
 SIZE C
 SUB No. 450

Drawn by
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 Checked by



2022 SEWER LINING PROJECT

MICHIGAN AVE





VICINITY MAP

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SCALE		CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MICHIGAN 48107-8647 www.a2gov.org	
DRAWING No.	2022011-56	DESCRIPTION	
SHEET No.	56 OF 105	DATE	12/10/21
		ARG	DRAWN
		IK	CHECKED
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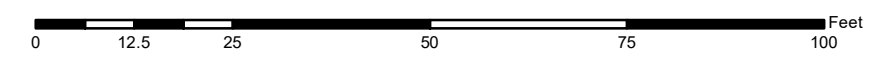
City of Ann Arbor

Michigan Ave.

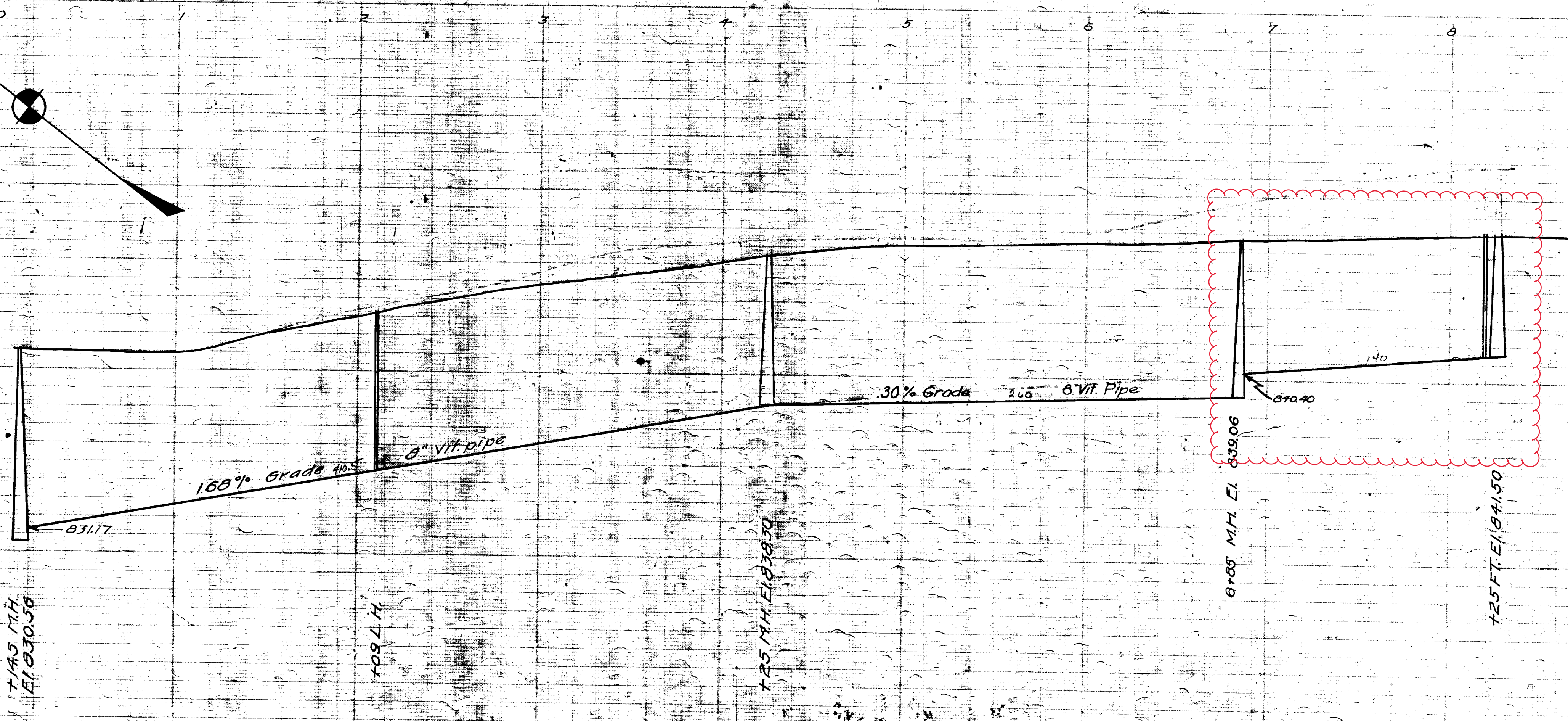
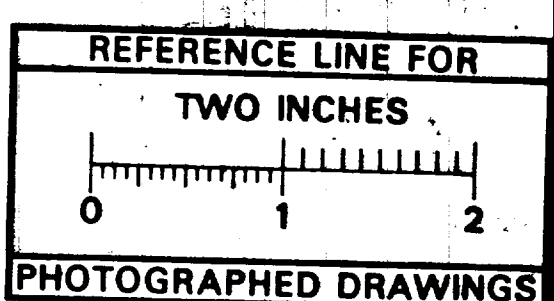
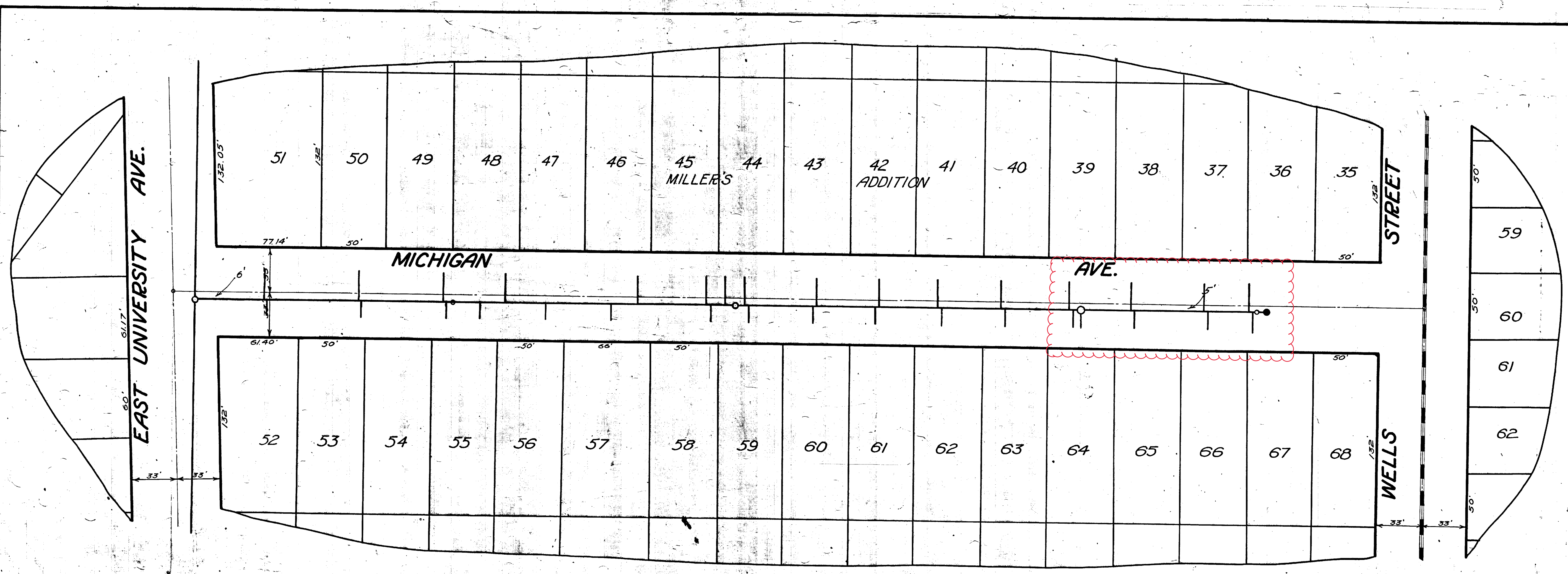


	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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MEASUREMENTS TO HOUSE CONNECTIONS
E. University Av. to Wells St.
Sta 0 = 17.11 at E. Univ.

NORTH	SOUTH
518	538
122.7	124.7
186.5	188.5
235.5	194.5 - L.H.
335.0	215.5
387.8	265.0
	314.5
415.6	108.9 - 17.11
459.0	309.8
513.6	417.0
561.8	466.0
613.7	512.1
	563.8
665.5	636.2 - L.H.
710.5	611.7
765.0	663.5
799.5	712.5
	767.0
	803.0
	804.7 - L.H.
	809.8 - FT.

Digital Status
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By: DCK
Despeckled: Yes
Vectors:
O.C.R.:

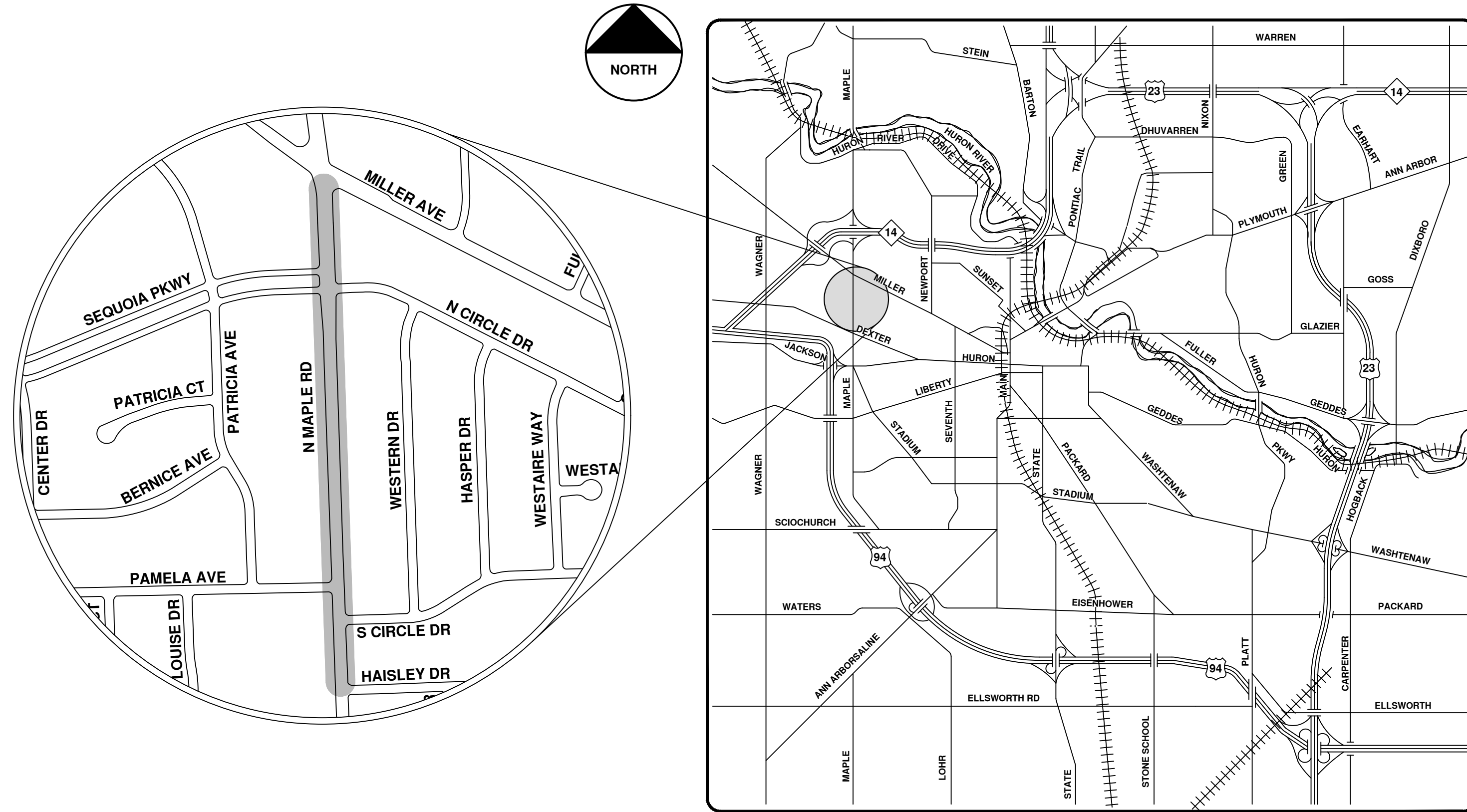
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INDEX No. 885
SHELF No. 0
SIZE C
SUB No. 269
Drawn by
Traced by Feiner
Checked by

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
MICHIGAN AVE.
EAST UNIV. AVE. TO WELLS ST.
Manley Osgood, City Engineer.
1917
Scale: Plan 1" = 40' Profile Horizontal 1" = 4'




2022 SEWER LINING PROJECT

N MAPLE RD



VICINITY MAP

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 SHEET No. 59 OF 105

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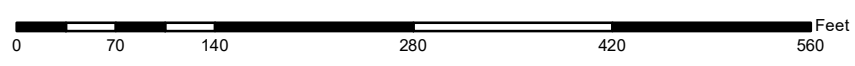


N. Maple Rd.



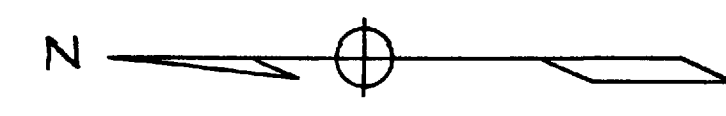
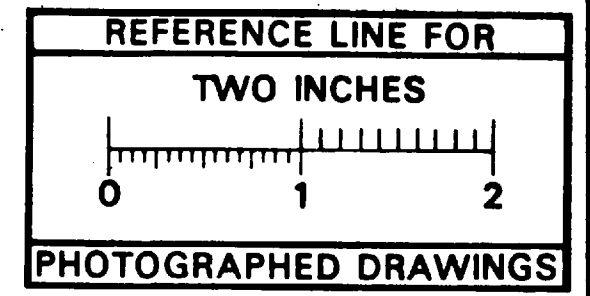
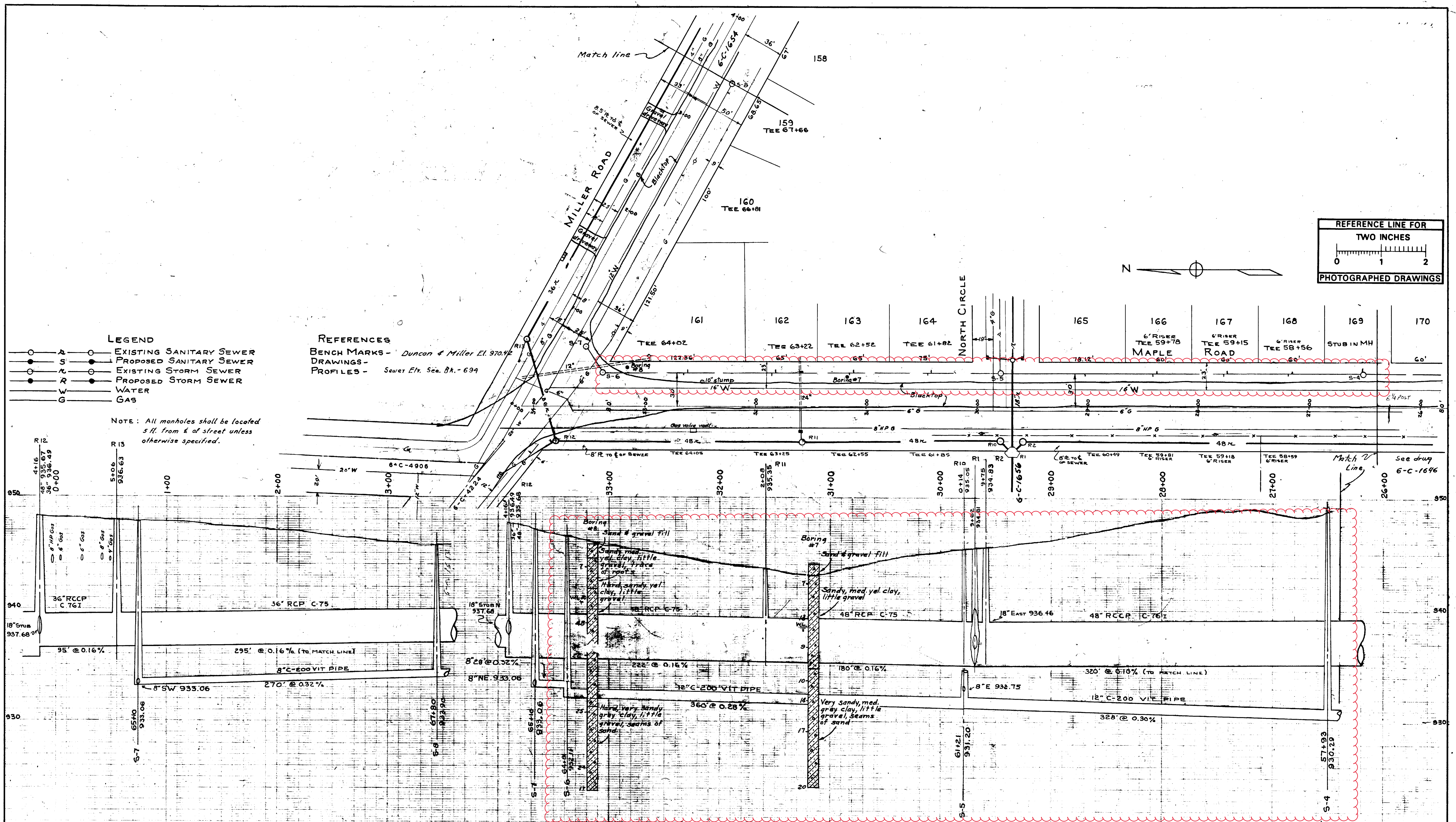
	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



For terms and conditions please visit www.a2gov.org/terms

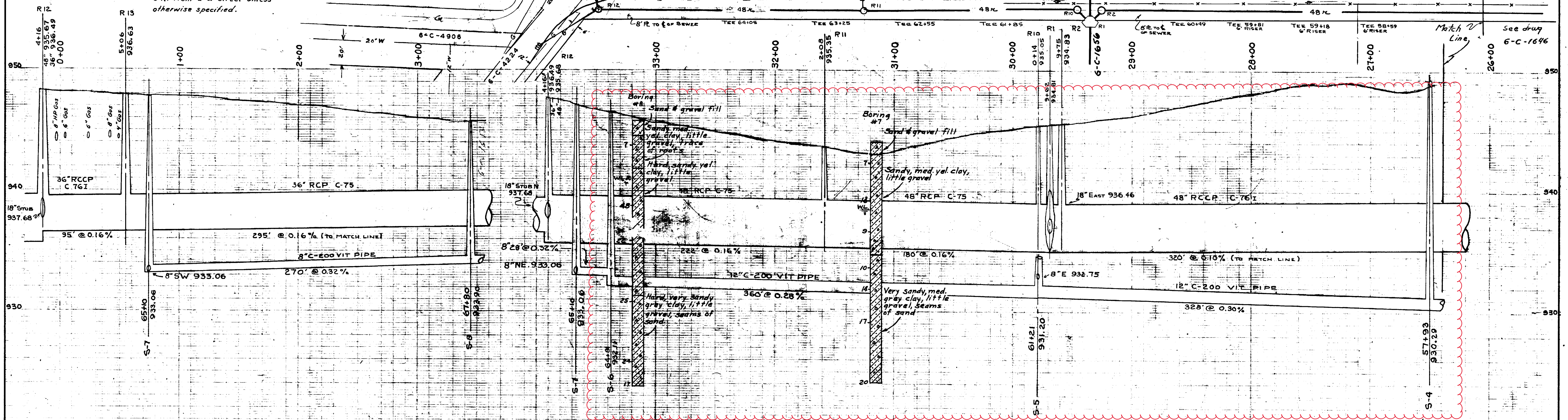
City of Ann Arbor



- LEGEND**
- EXISTING SANITARY SEWER
 - PROPOSED SANITARY SEWER
 - EXISTING STORM SEWER
 - PROPOSED STORM SEWER
 - W WATER
 - G GAS

REFERENCES
BENCH MARKS - Duncan & Miller El. 970.42
DRAWINGS -
PROFILES - Sewer Elev. Sta. Bk. - 694

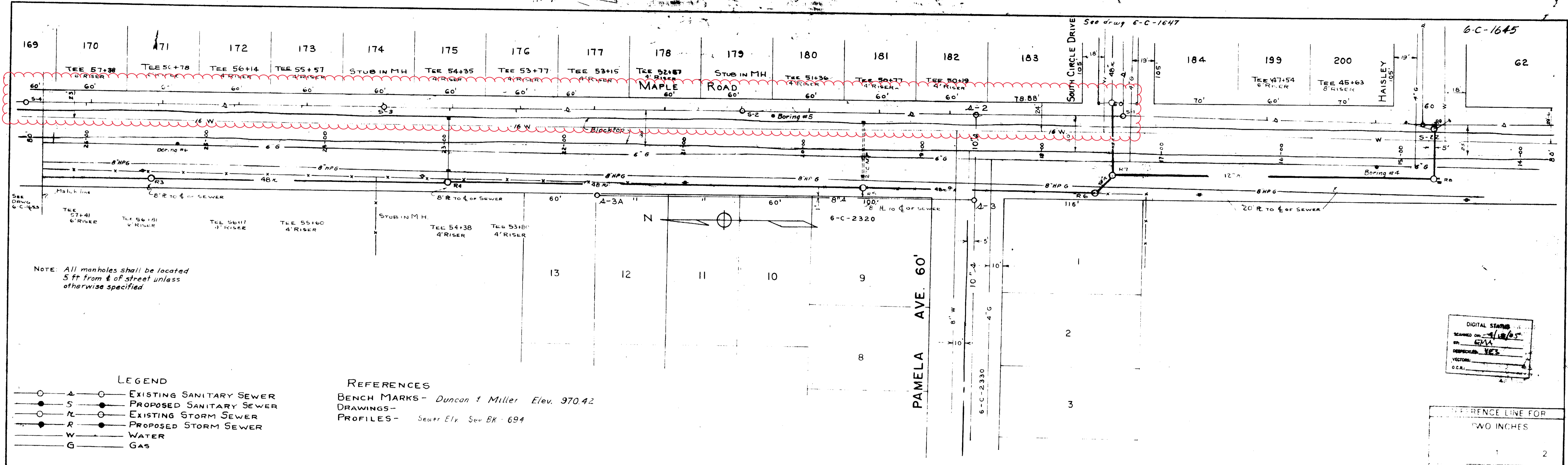
NOTE: All manholes shall be located 5 ft. from E. of street unless otherwise specified.



Digital Status
Scanned On: 4/21/05
By: JSM
Despeckled: YES
Victoria:
O.C.R.:

SAN. DIST. 326
STORM DIST. 16
M.D.H. Permit No. 14256
3-19-56
JOB NO. 2206 R
JOB NOS. 2208, 2209 S

DATE	SHEET NO.	STORM AND SANITARY SEWERS MILLER ROAD EAST OF MAPLE ROAD MAPLE ROAD MILLER ROAD TO SOUTH OF NORTH CIRCLE DRIVE GEO. H. SANDENBURGH CITY ENGINEER
DR. BY R.W.M. 6/55	INDEX NO. 3427	
TR. BY R.M.H. 7/55	SHELF NO.	
CH. BY H.L. 8/55	6-C-1653	
REVISIONS	SCALE: HORIZONTAL 1"=40' VERTICAL 1"=4'	CITY ENGINEER'S OFFICE - ANN ARBOR, MICHIGAN

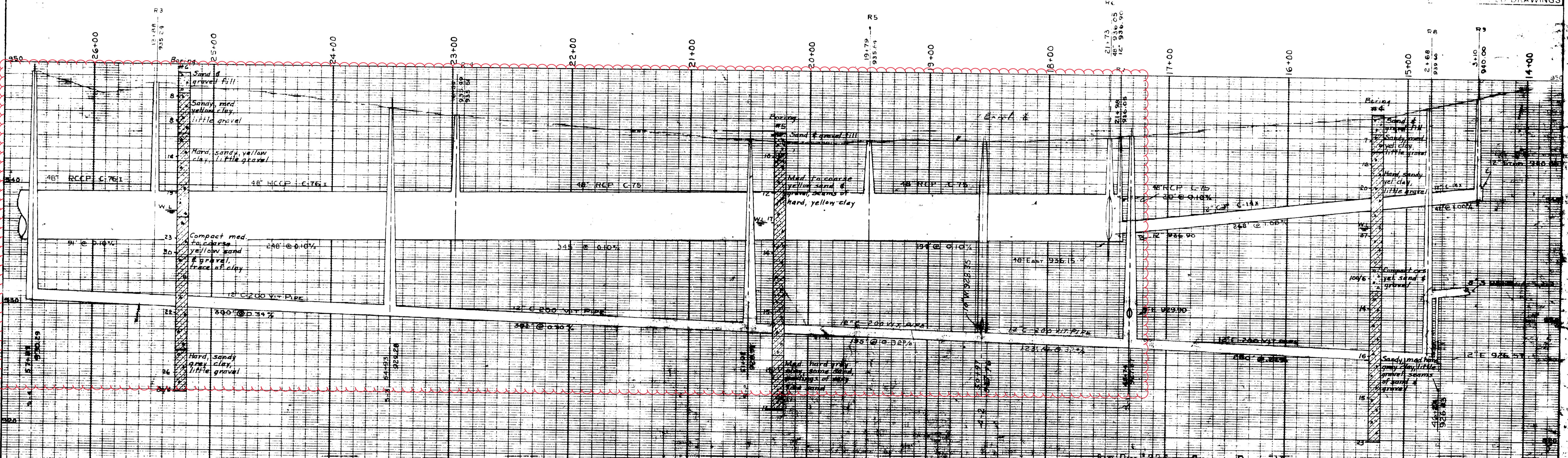


- LEGEND**
- A ○ EXISTING SANITARY SEWER
 - S ○ PROPOSED SANITARY SEWER
 - R ○ EXISTING STORM SEWER
 - R ○ PROPOSED STORM SEWER
 - W — WATER
 - G — GAS

REFERENCES
 BENCH MARKS- Duncan & Miller Elev. 970.42
 DRAWINGS-
 PROFILES- Sewer Ely. Sev BK - 694

DIGITAL STAMP
 SCANNED ON 4/18/05
 BY GMA
 APPROVED YTS
 VERIFIED
 O.C.A.

REFERENCE LINE FOR
 TWO INCHES
 1 2
 THESE DRAWINGS



PREPARED BY McNAMEE, PORTER AND SEELEY
 CONSULTING ENGINEERS

DATE SHEET NO.
 10/27/55 SHEET NO. 10-222
 DRAWN BY R.M.H. 3/55 SHEET NO.
 CHECKED BY H.L. 4/55
 APPROVED BY

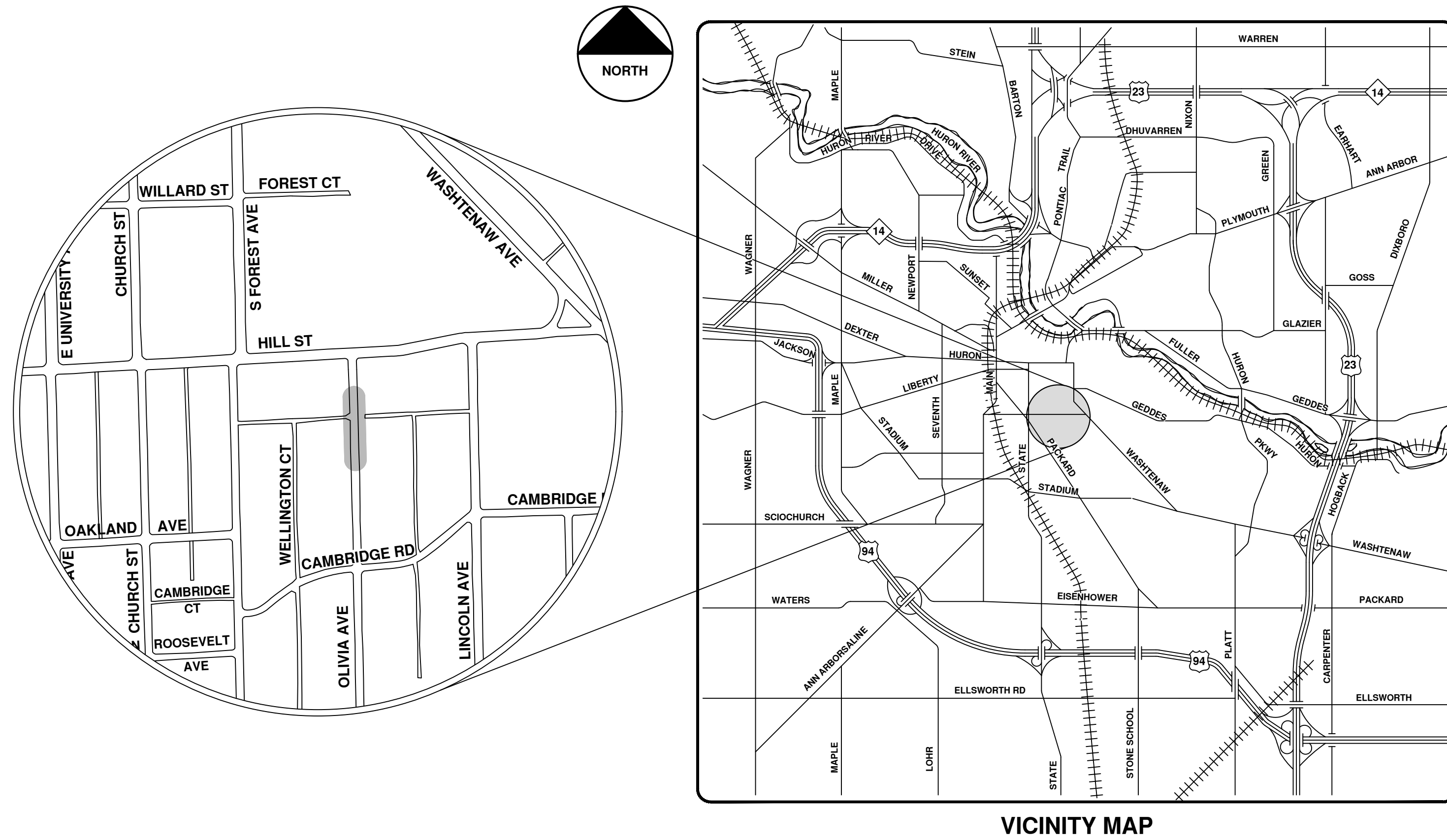
STORM AND SANITARY SEWERS
MAPLE ROAD
 SOUTH OF NORTH CIRCLE DRIVE TO HAISLEY DRIVE

REG. H. SANDENBURGH
 CIVIL ENGINEER'S OFFICE - ANN ARBOR, MICH.



2022 SEWER LINING PROJECT

OLIVIA AVE



VICINITY MAP

R:\2022011 Sewer Lining 2022\Plan Production\2022011CovSan.dwg - _o2_standard bw.stb - Plot Date: 12/7/2021 10:37:56 AM



ENGINEERING
 CITY OF ANN ARBOR PUBLIC SERVICES
 301 EAST HURON STREET, P.O. BOX 8647
 ANN ARBOR, MICHIGAN 48107-8647
 734-794-6410 www.a2gov.org

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48107-8647 www.a2gov.org	
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING SCALE DRAWING No. 2022011-63	SHEET No. 63 OF 105
REV. NO. DESCRIPTION DATE DRAWN CHECKED	00 BID SET 12/10/21 ARG IK

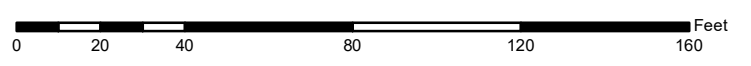


Olivia Ave.

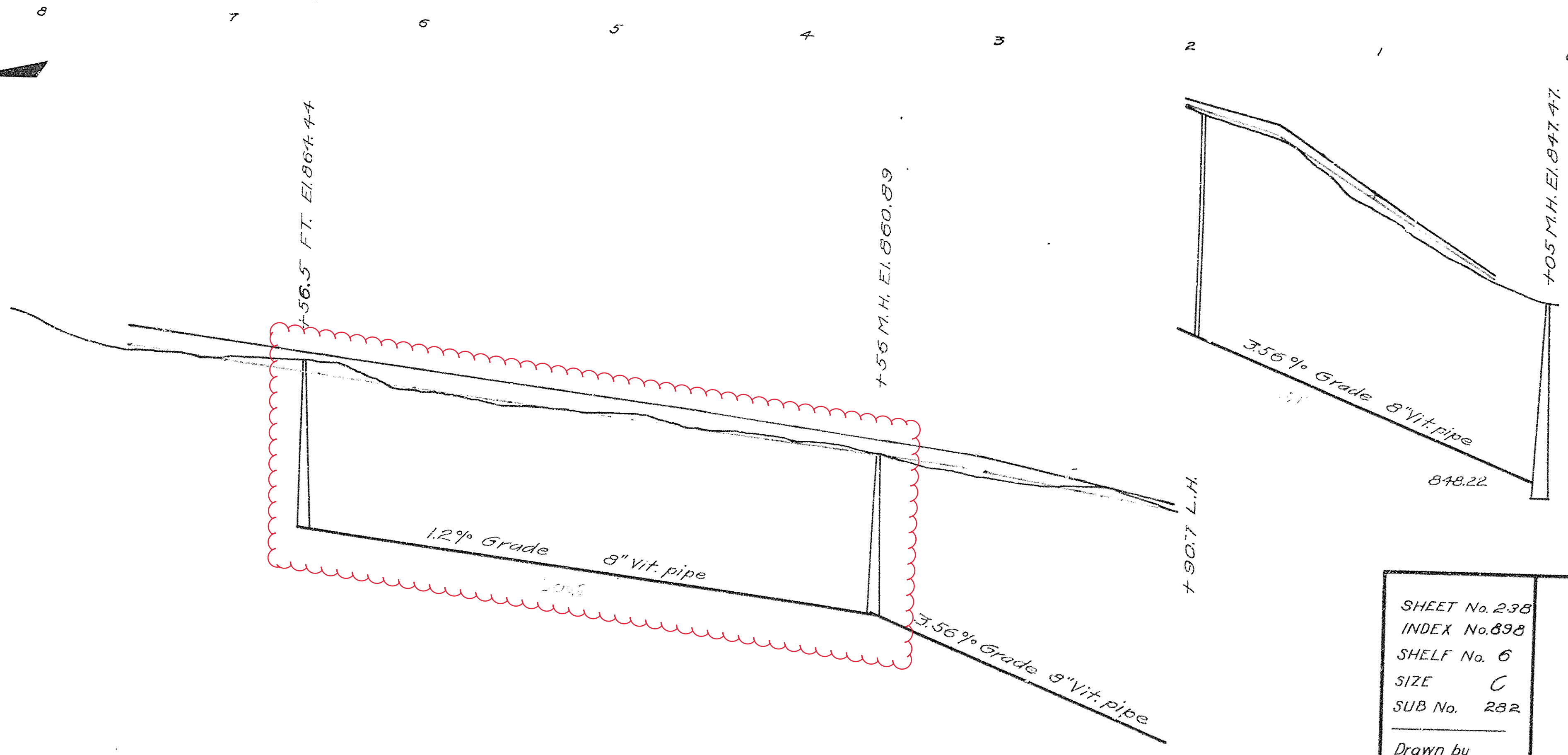
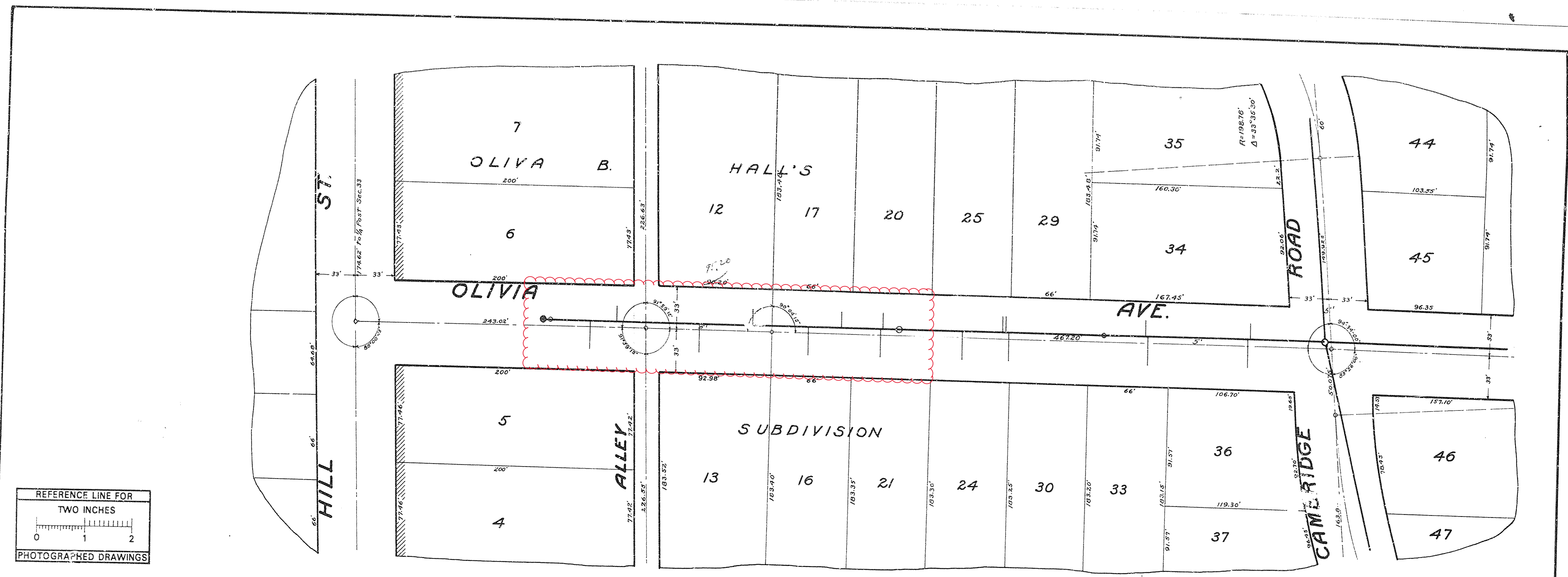
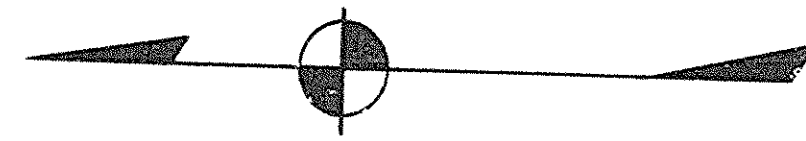
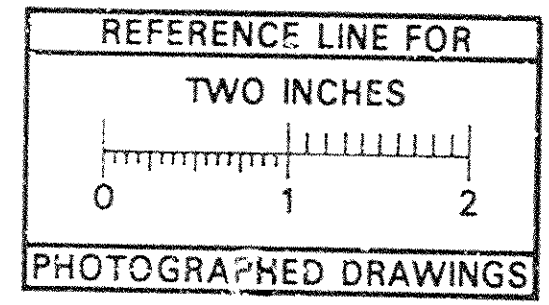


	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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MEASUREMENTS TO HOUSE CONNECTIONS
0 = M.H. at Cambridge Rd.

EAST	WEST
63.0	65.0
151.0	149.0
267.6	263.6
269.5	303.0
369.5	371.5
404.4	431.6
477.4	521.6
589.7	612.8
643.6	

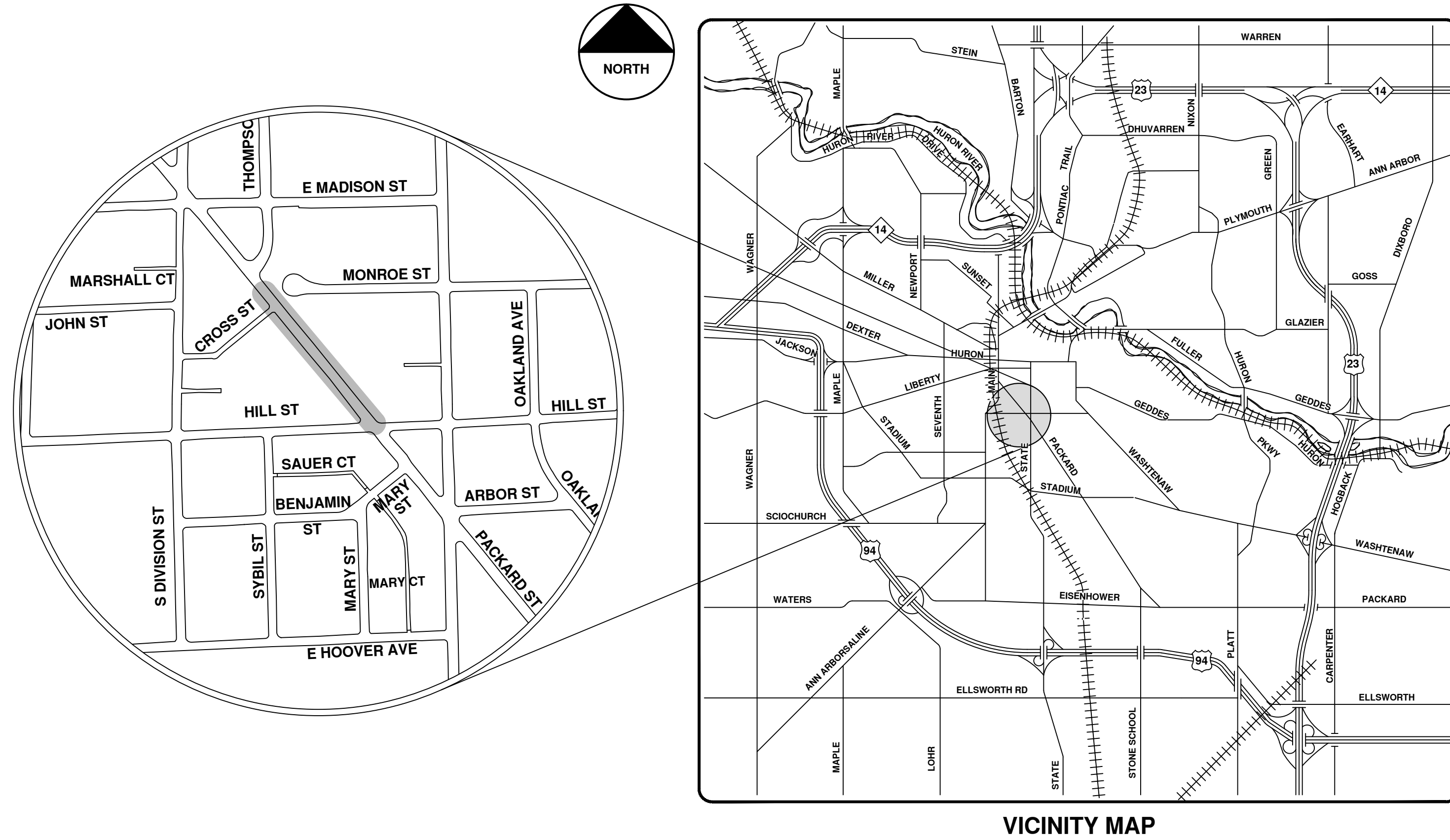
6567 FT.
Bench Mark Hyd. Olivia Ave. + Cambridge Rd. E.I. 858.82 U.S.G.S.

<p>SHEET No. 298 INDEX No. 898 SHELF No. 6 SIZE C SUB No. 282</p> <p>Drawn by Traced by G.M.B. Checked by J.S.</p>	<p>CITY ENGINEER'S OFFICE ANN ARBOR, MICH. PLAN AND PROFILE OF SANITARY SEWER</p> <p>OLIVIA AVE. HILL ST. TO CAMBRIDGE ROAD. Manley Osgood, City Engineer. 1917</p> <p>Scales - Plan 1"=40' Profile Hor. 1"=40' Ver. 1"=4'</p>
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2022 SEWER LINING PROJECT

PACKARD ST



VICINITY MAP

R:\2022011 Sewer Lining 2022\Plan Production\2022011CovSan.dwg - _o2_standard bw.stb - Plot Date: 12/7/2021 10:38:01 AM



ENGINEERING
 CITY OF ANN ARBOR PUBLIC SERVICES
 301 EAST HURON STREET, P.O. BOX 8647
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	12/10/21	ARG	IK

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 ANN ARBOR, MI 48107-8647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2022011-66

SHEET No.
 66 OF 105

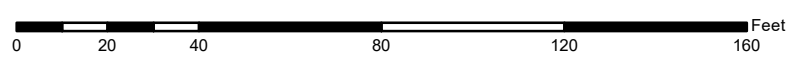


Packard St.



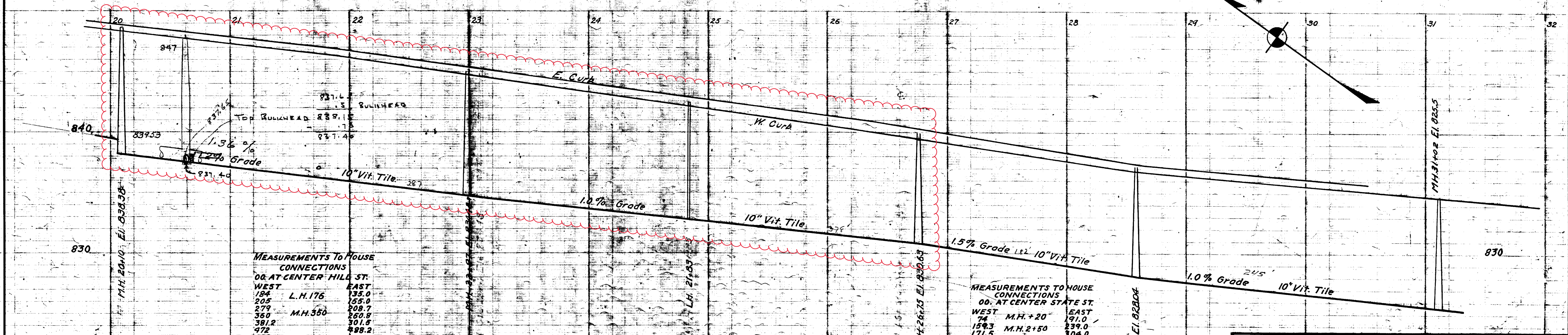
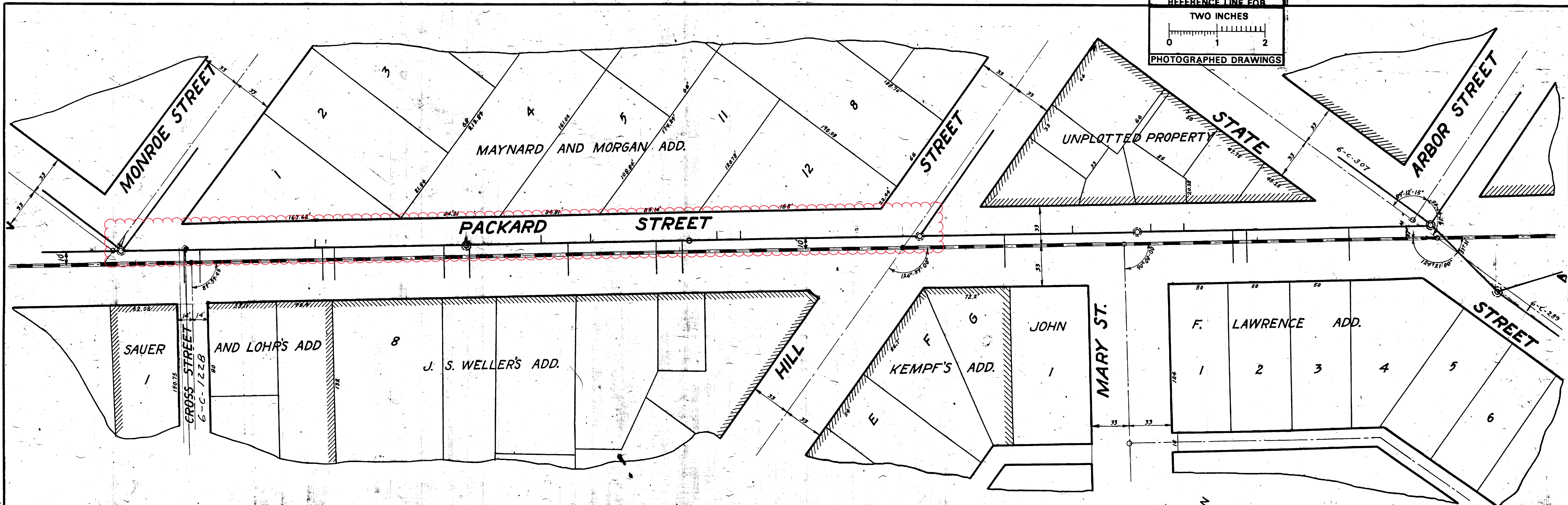
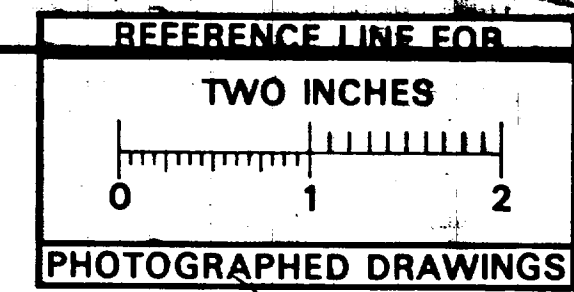
	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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City of Ann Arbor



MEASUREMENTS TO HOUSE CONNECTIONS
00' AT CENTER HILL ST.

WEST	EAST
184	135.0
205	155.0
279	208.7
360	260.8
381.2	301.5
472	488.2
585.6	
597.0	

M.H. 176
M.H. 350
M.H. 650

MEASUREMENTS TO HOUSE CONNECTIONS
00' AT CENTER STATE ST.

WEST	M.H. + 20	EAST
74		191.0
159.3	M.H. 2+50	239.0
171.5	M.H. 4+31.6	304.0

Digital Status
Scanned On: 9-1-04
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

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INDEX No. 904
SHELF No. 6
SIZE C
SUB No. 288

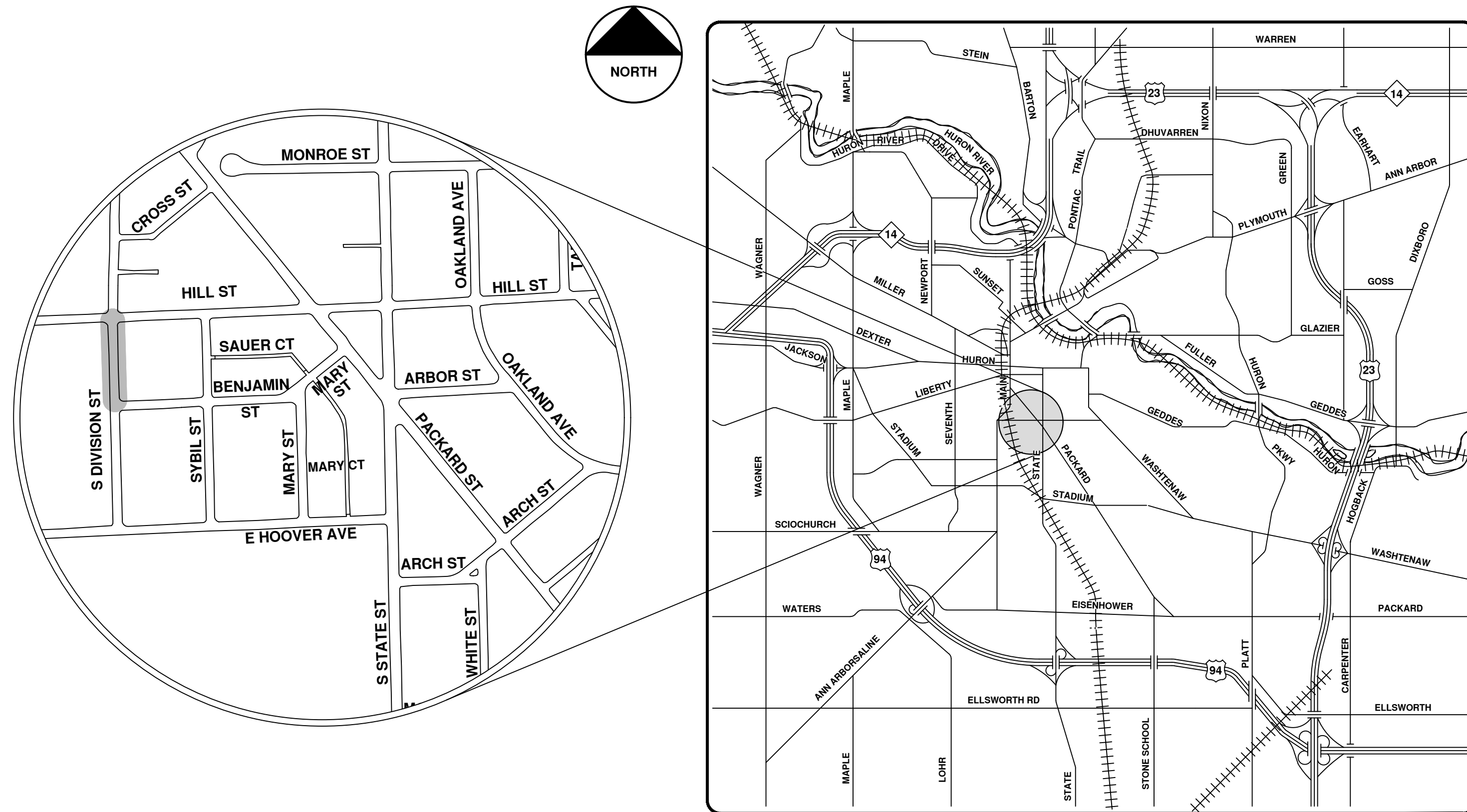
Drawn by
Traced by T.C.Hill
Checked by

CITY ENGINEER'S OFFICE
ANN ARBOR MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
PACKARD STREET
MONROE TO STATE
Manley Osgood City Engineer.
1917
Scales-Plan 1"=40' Profile-Hori-1"=40'



2022 SEWER LINING PROJECT

S DIVISION ST



VICINITY MAP

R:\2022011 Sewer Lining 2022\Plan Production\2022011CovSan.dwg - _o2_standard bw.stb - Plot Date: 12/7/2021 10:38:06 AM



ENGINEERING
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	12/10/21	ARG	IK

CITY OF ANN ARBOR
 PUBLIC SERVICES
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 ANN ARBOR, MICHIGAN 48107-8647
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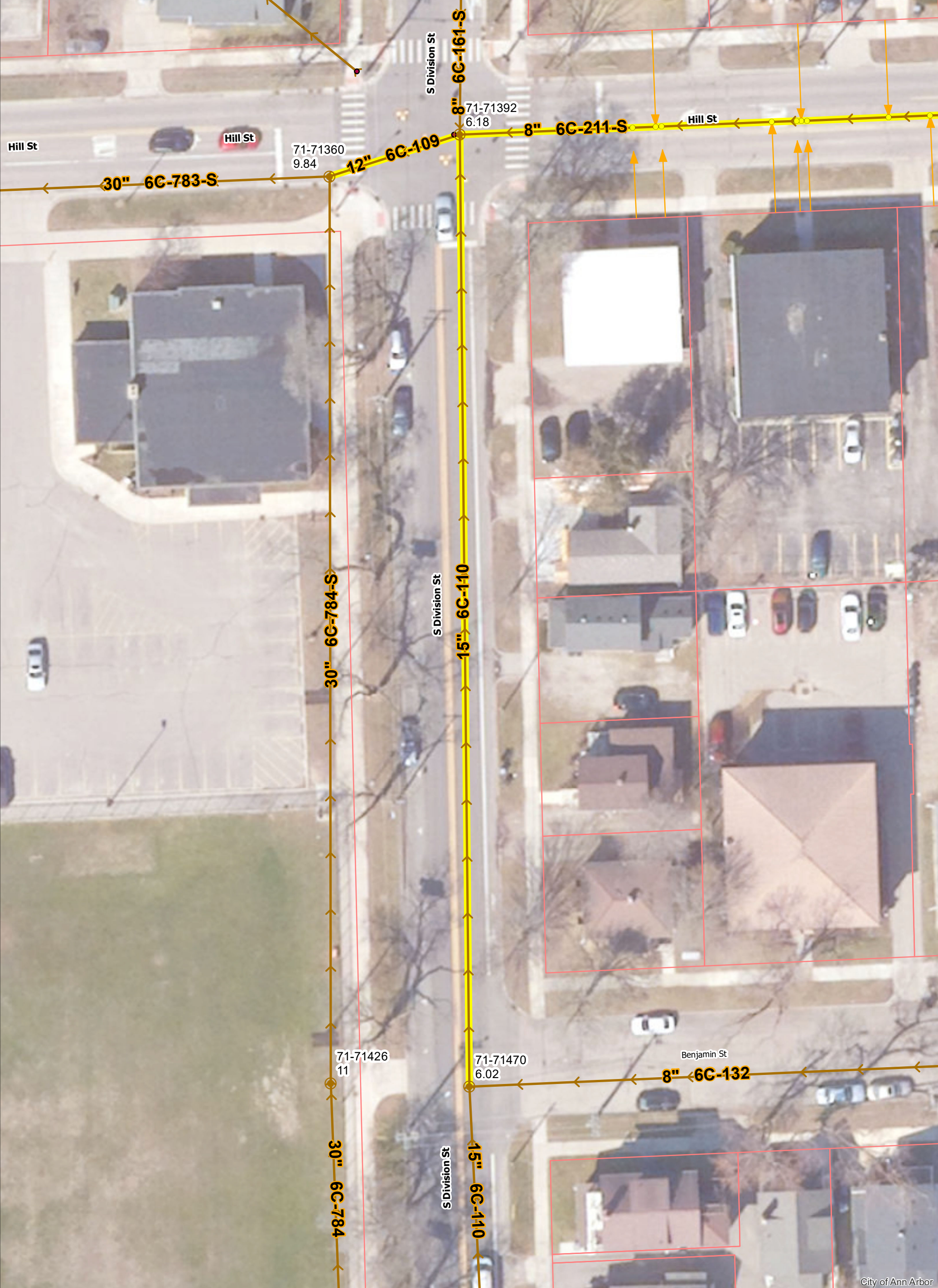


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2022011-69

SHEET No.

69 OF 105

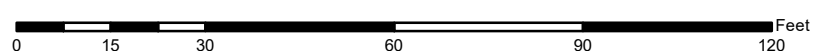


S. Division St.



	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

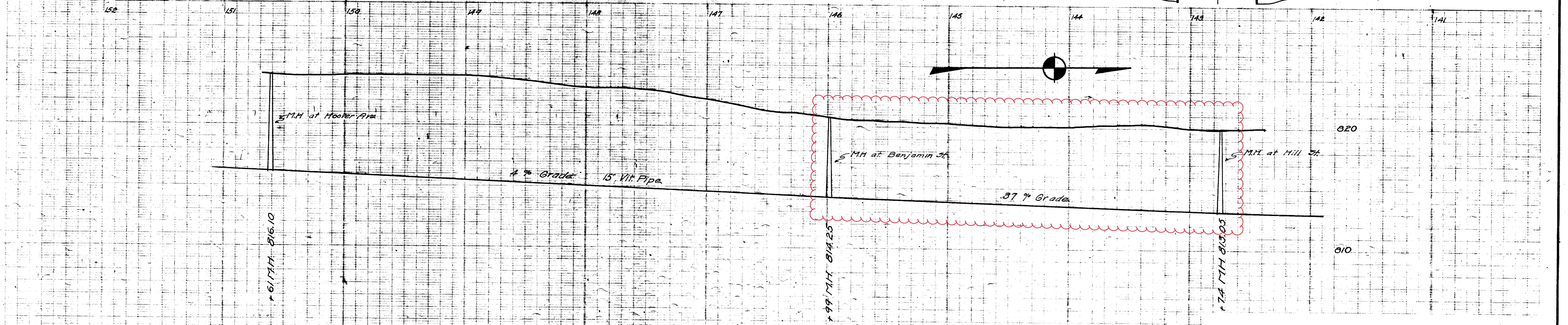
71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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City of Ann Arbor

REFERENCE LINE FOR
TWO INCHES
0 1 2
PHOTOGRAPHED DRAWINGS



Digital Status
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By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

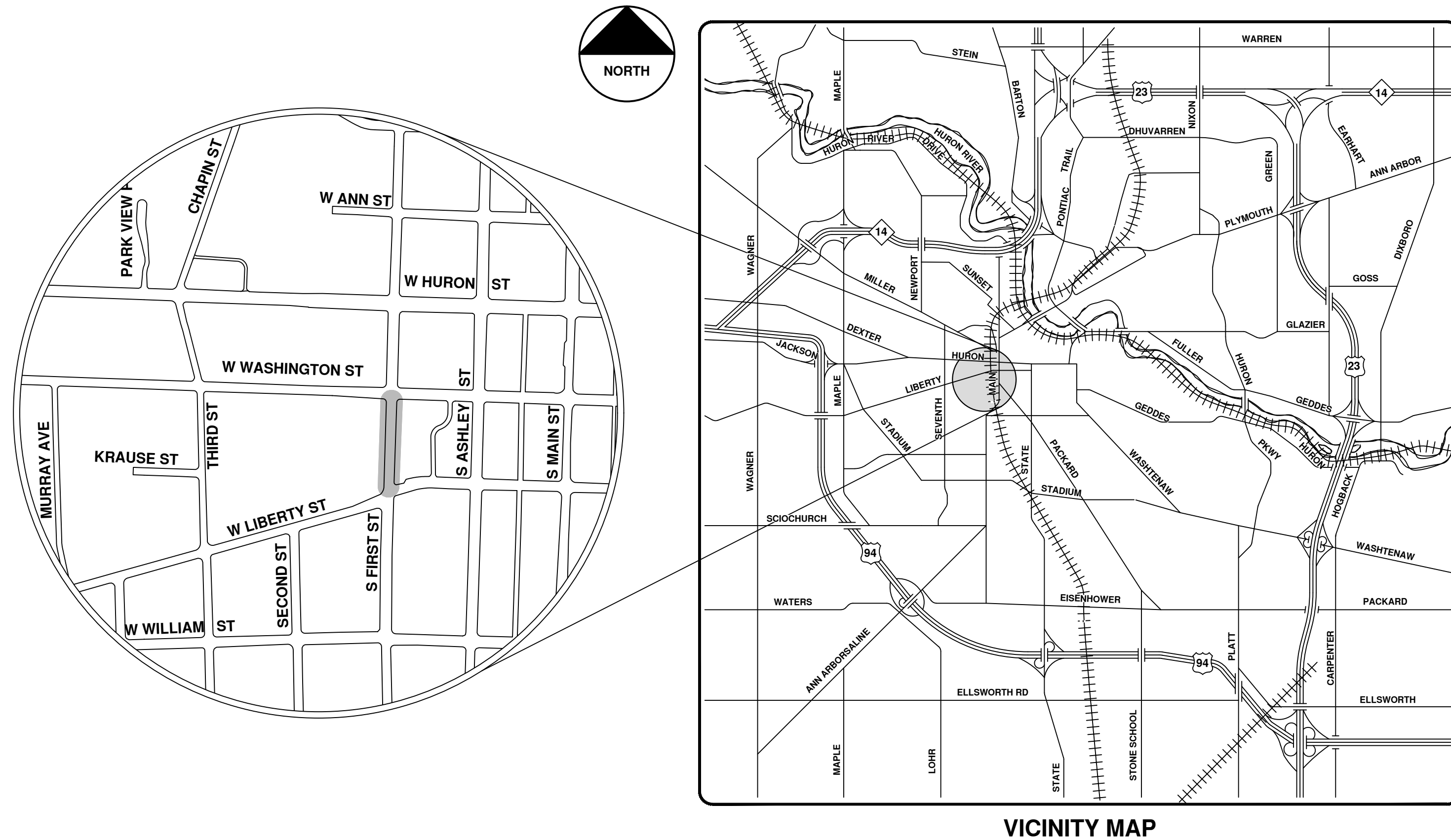
SHEET No 14
INDEX No. 722
SHELF No. 0
SIZE C
SUB No. 110
Drawn by G.H.S.
Traced by G.H.S.
Checked by

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
MAINSANITARY SEWER
HILL ST TO HOOVER AVE.
Manley Osgood City Engineer.
1918
Scale Plan 1"=40' Profile Hor 1"=40' Vert 1"=4'




2022 SEWER LINING PROJECT

S FIRST ST



VICINITY MAP

R:\2022011 Sewer Lining 2022\Plan Production\2022011CovSan.dwg - _o2_standard bw.stb - Plot Date: 12/7/2021 10:38:11 AM



ENGINEERING
 CITY OF ANN ARBOR PUBLIC SERVICES
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 ANN ARBOR, MICHIGAN 48107-8647
 734-794-6410 www.a2gov.org

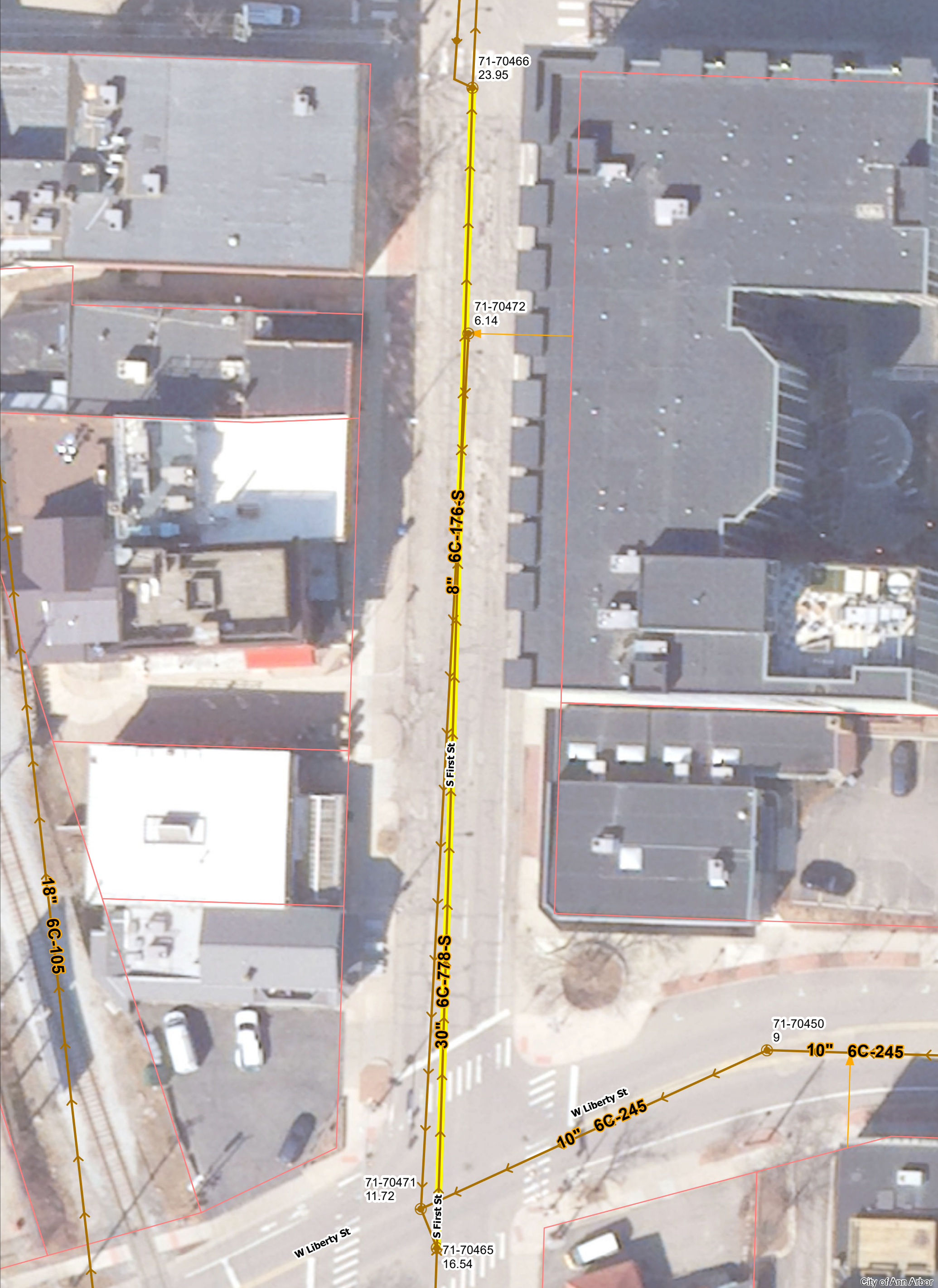
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE: _____
 DRAWING No. 2022011-72
 SHEET No. 72 OF 105

CITY OF ANN ARBOR PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MICHIGAN 48107-8647
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	12/10/21	ARG	IK

811
 Know what's below.
 Call Before you dig.

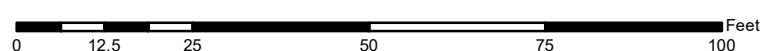


S. First St.



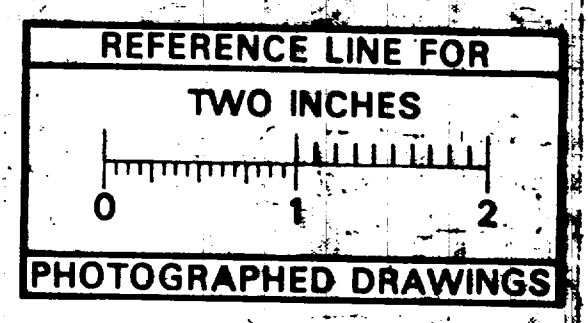
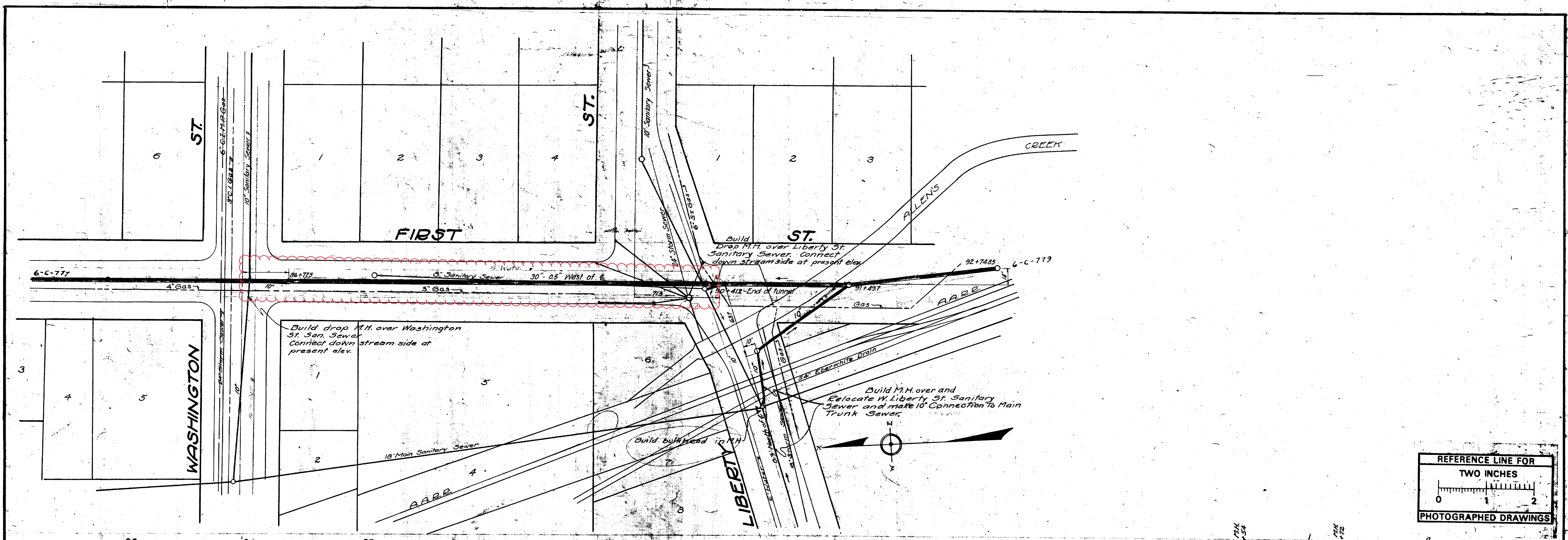
	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
 X.XX (Manhole Depth)



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City of Ann Arbor



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By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

Section D

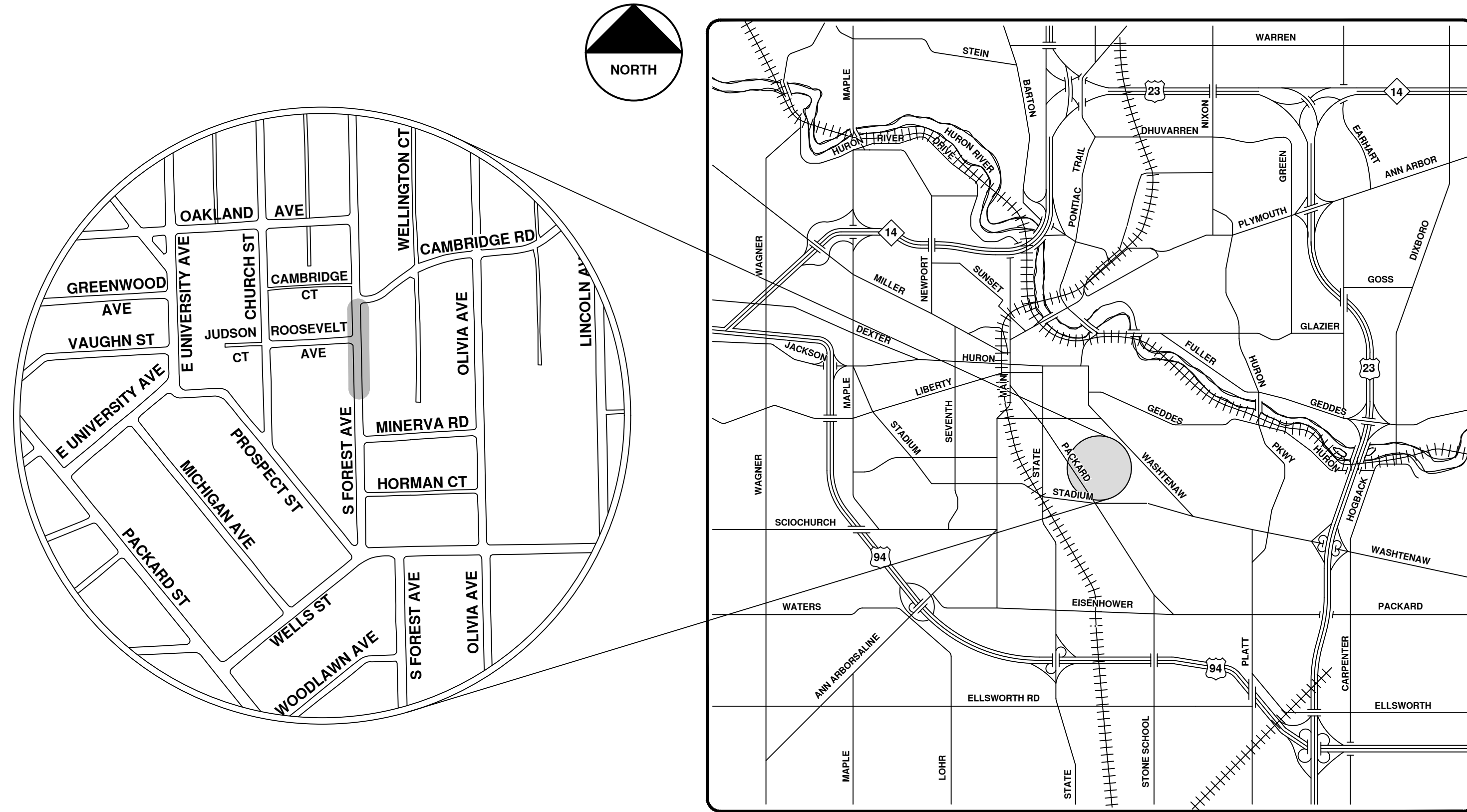
Section D Section E

INDEX No. 2014 SHELF No. 6 SIZE C SUB. No. 778 Drawn by Traced by KGO Checked by	CITY ENGINEER'S OFFICE ANN ARBOR, MICH. PLAN AND PROFILE OF MAIN TRUNK SANITARY SEWER First St - Washington to Liberty Geo. H. Sandenburgh City Engineer 1926-12-6 Scale: Plan Hor. 1"=40' Prof. Vert. 1"=4'
--	--



2022 SEWER LINING PROJECT

S FOREST AVE



VICINITY MAP

R:\2022011 Sewer Lining 2022\Plan Production\2022011CovSan.dwg - _a2_standard bw.stb - Plot Date: 12/7/2021 10:38:17 AM



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING		CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MICHIGAN 48107-8647 www.a2gov.org	
SCALE	DRAWING No.	DESCRIPTION	REV.
	2022011-75	BID SET	00
		DATE	12/07/21
		DRAWN	ARG
		CHECKED	IK
		Know what's below. Call Before you dig.	
SHEET No.		75 OF 105	



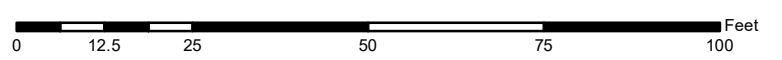
City of Ann Arbor

S. Forest Ave.

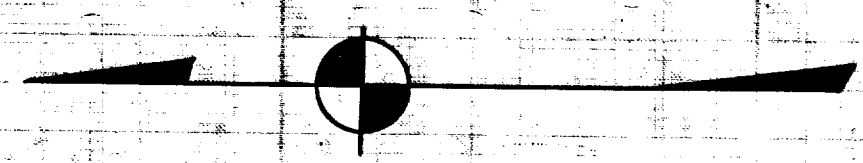
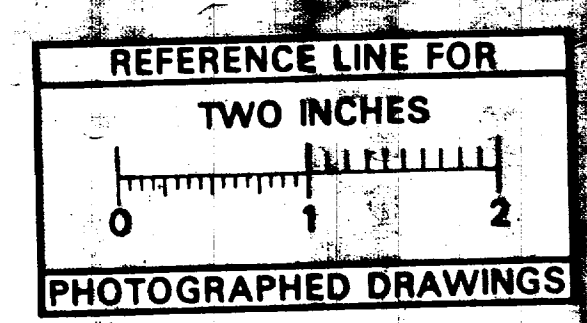
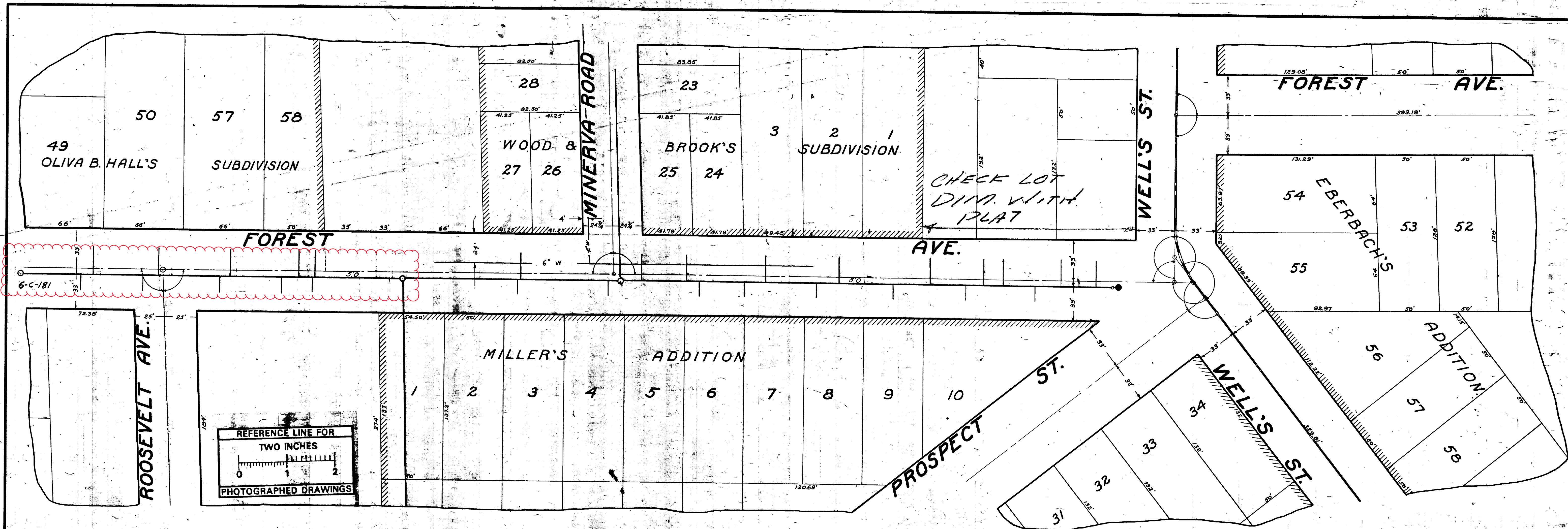


- Manholes
- Proposed Lining
- Sanitary Main
- Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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MEASUREMENTS TO HOUSE CONNECTIONS

From Main Sewer to Cambridge Sta. O - M.H. at Main Sewer	
East	West
78.0	78.0
86.0	100.0
133.0	133.0
202.0	215.0
256.0	266.0
	315.0

From Main Sewer to Wells Sta. O - M.H. at Main Sewer	
East	West
95.0	95.0
195.0	171.0
235.0	246.0
301.0	359.0
362.0	393.0
438.0	407.0
482.0	467.5
546.0	525.0
575.0	596.0 FT.

Not reliable.



Digital Status
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By: DCK
Despeckled: Yes
Vectors:
O.C.R.:

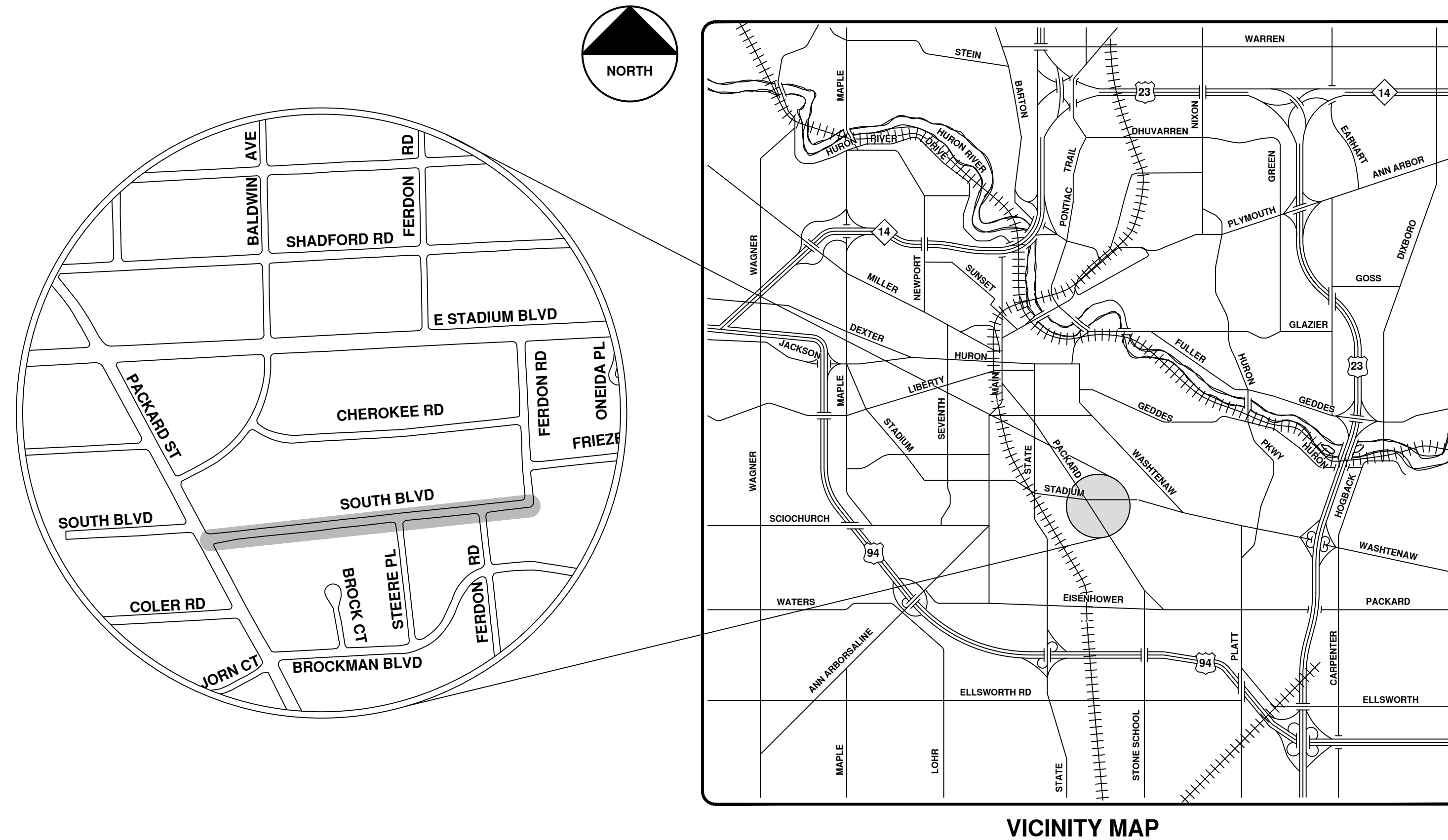
SHEET No. 109
INDEX No. 795
SHELF No. 0
SIZE C
SUB No. 180
Drawn by
Traced by gns.
Checked by

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
FOREST AVE.
ROOSEVELT, AVE. TO WELLS ST.
Manley Osgood, City Engineer.
1917
SCALE - Plan 1"=40' Profile 1"=40' Ver. 1"=4'



2022 SEWER LINING PROJECT

SOUTH BLVD



VICINITY MAP

R:\2022011 Sewer Lining 2022\Plan Production\2022011CovSan.dwg - _o2_standard bw.stb - Plot Date: 12/7/2021 10:38:21 AM



ENGINEERING
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00	BID SET	12/10/21	ARG	IK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2022011-78

SHEET No.
 78 OF 105

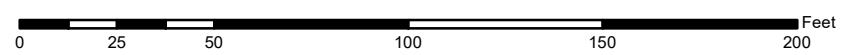


South Blvd.



	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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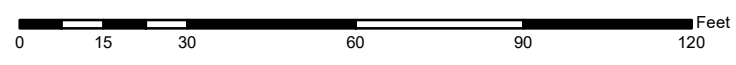
City of Ann Arbor

South Blvd.

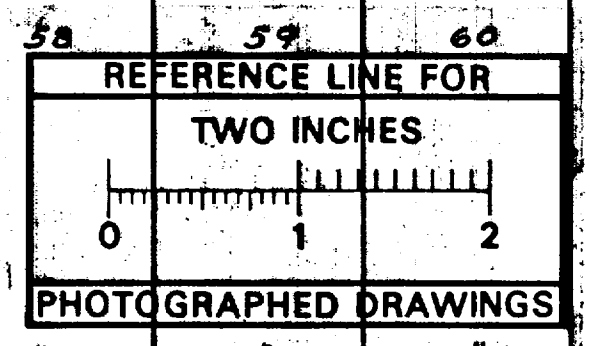
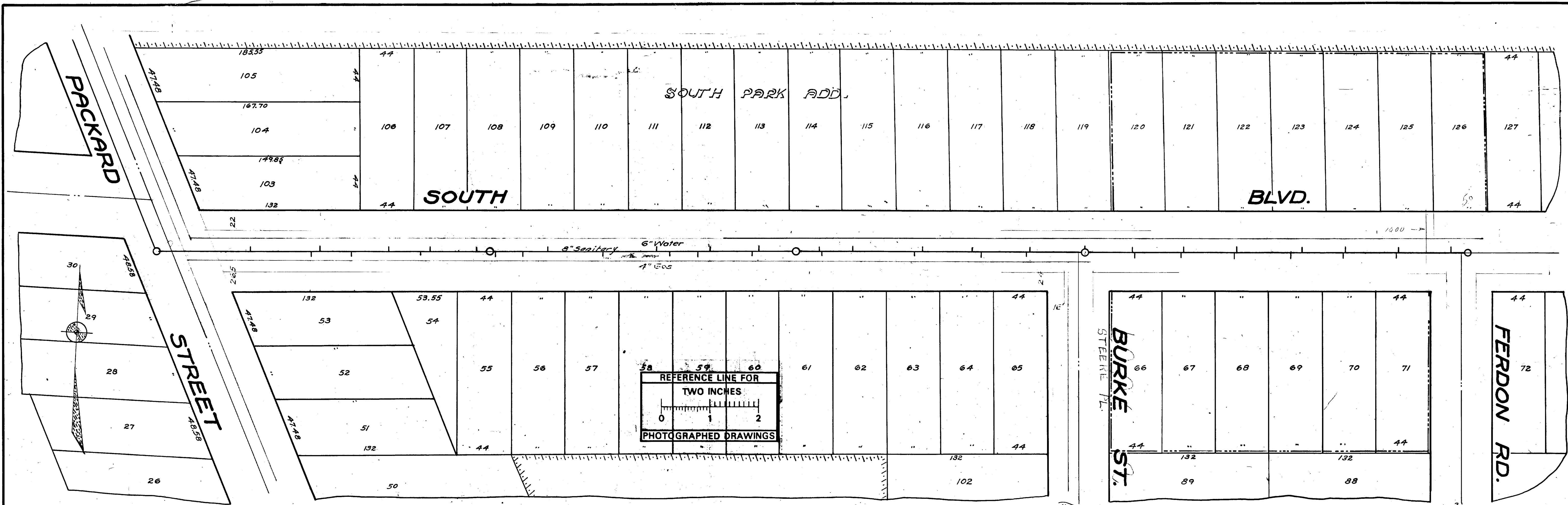


	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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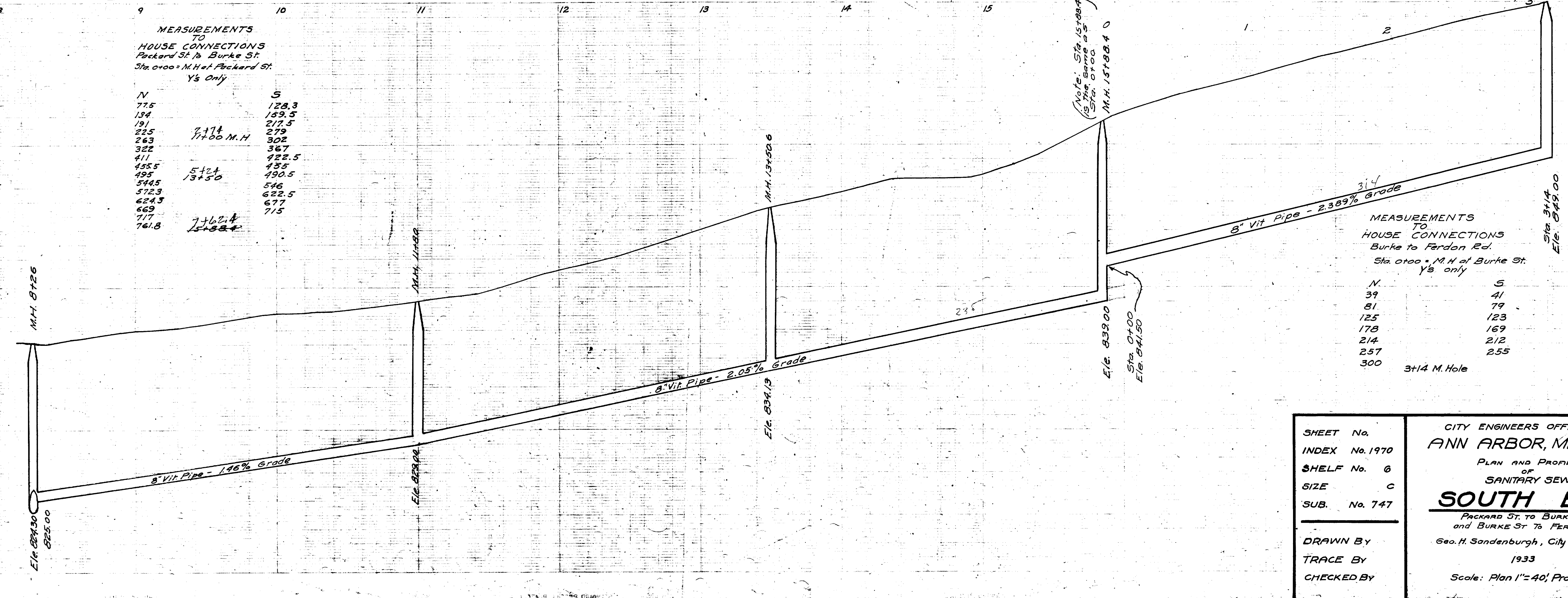
MEASUREMENTS TO HOUSE CONNECTIONS Packard St. & Burke St. Sta. 0+00 = M.H. at Packard St. Y's Only

N	S
77.5	128.3
134	159.5
191	217.5
225	279
263	302
322	367
411	422.5
455	455
495	490.5
545	546
572.3	622.5
624.3	677
669	715
717	
761.8	

MEASUREMENTS TO HOUSE CONNECTIONS Burke to Ferdon Rd. Sta. 0+00 = M.H. at Burke St. Y's only

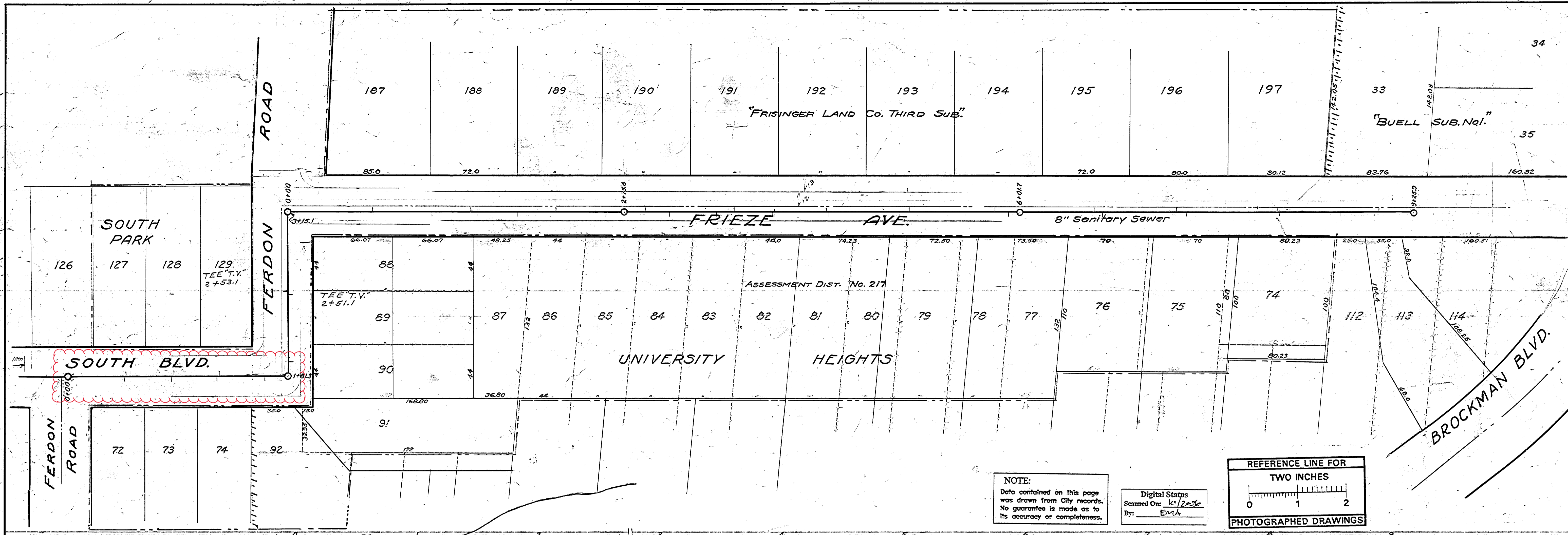
N	S
39	41
81	79
125	123
178	169
214	212
257	255
300	

3x14 M. Hole



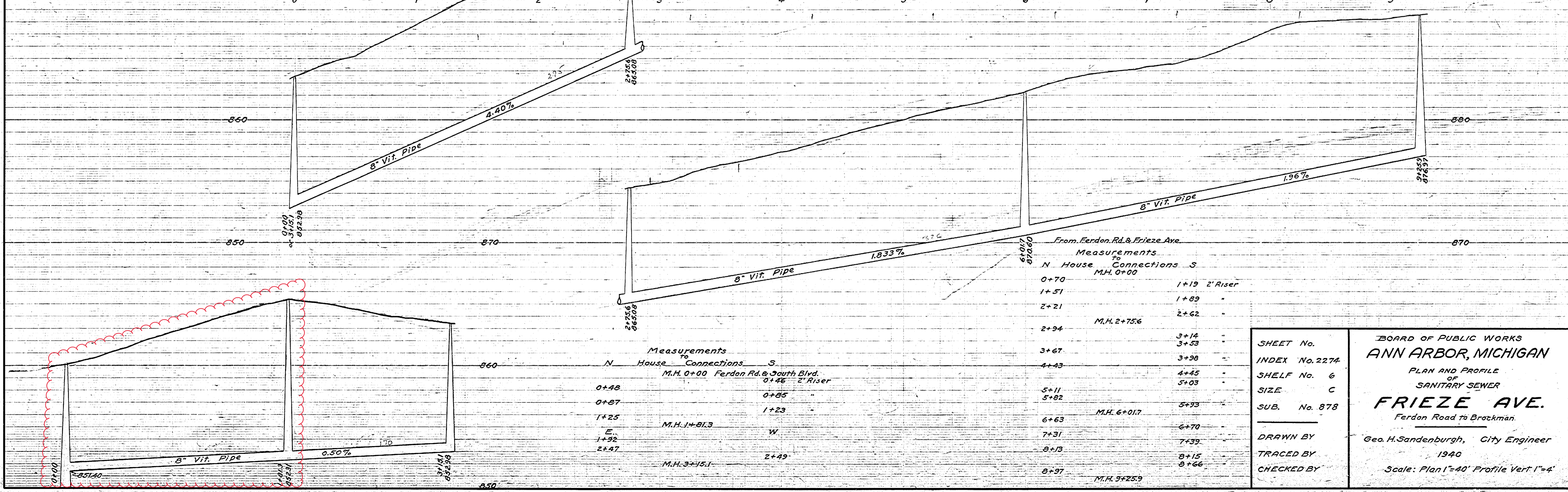
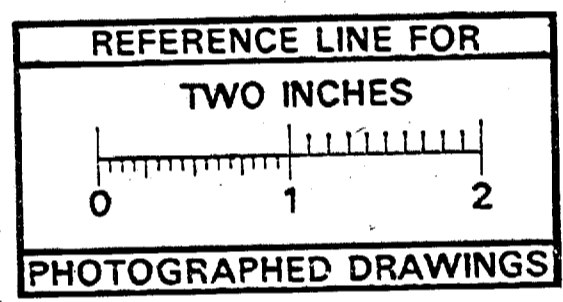
Digital Status
Scanned On: 2-25-05
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

SHEET No.	CITY ENGINEERS OFFICE
INDEX No. 1970	ANN ARBOR, MICHIGAN
SHELF No. 6	PLAN AND PROFILE
SIZE C	OF
SUB. No. 747	SANITARY SEWER
	SOUTH BLVD.
	PACKARD ST. TO BURKE ST.
	and BURKE ST. TO FERDON RD.
DRAWN BY	Geo. H. Sandenburgh, City Engineer
TRACE BY	1933
CHECKED BY	Scale: Plan 1"=40', Profile Vert 1"=4'



NOTE:
Data contained on this page
was drawn from City records.
No guarantee is made as to
its accuracy or completeness.

Digital Status
Scanned On: 10/20/20
By: EMA



Measurements
N House Connections S
M.H. 0+00 Ferdon Rd. & South Blvd.

0+48	0+85
0+87	1+23
1+25	M.H. 1+01.3
1+92	W
2+47	M.H. 3+15.1

From Ferdon Rd. & Frieze Ave.
Measurements
N House Connections S
M.H. 0+00

0+70	1+19 2' Riser
1+51	1+89
2+21	2+62
2+94	M.H. 2+75.6
3+67	3+14
3+43	3+53
4+43	3+98
5+11	4+45
5+82	5+03
6+63	M.H. 6+01.7
7+31	6+70
8+13	7+39
8+97	8+15
	8+66
	M.H. 9+25.9

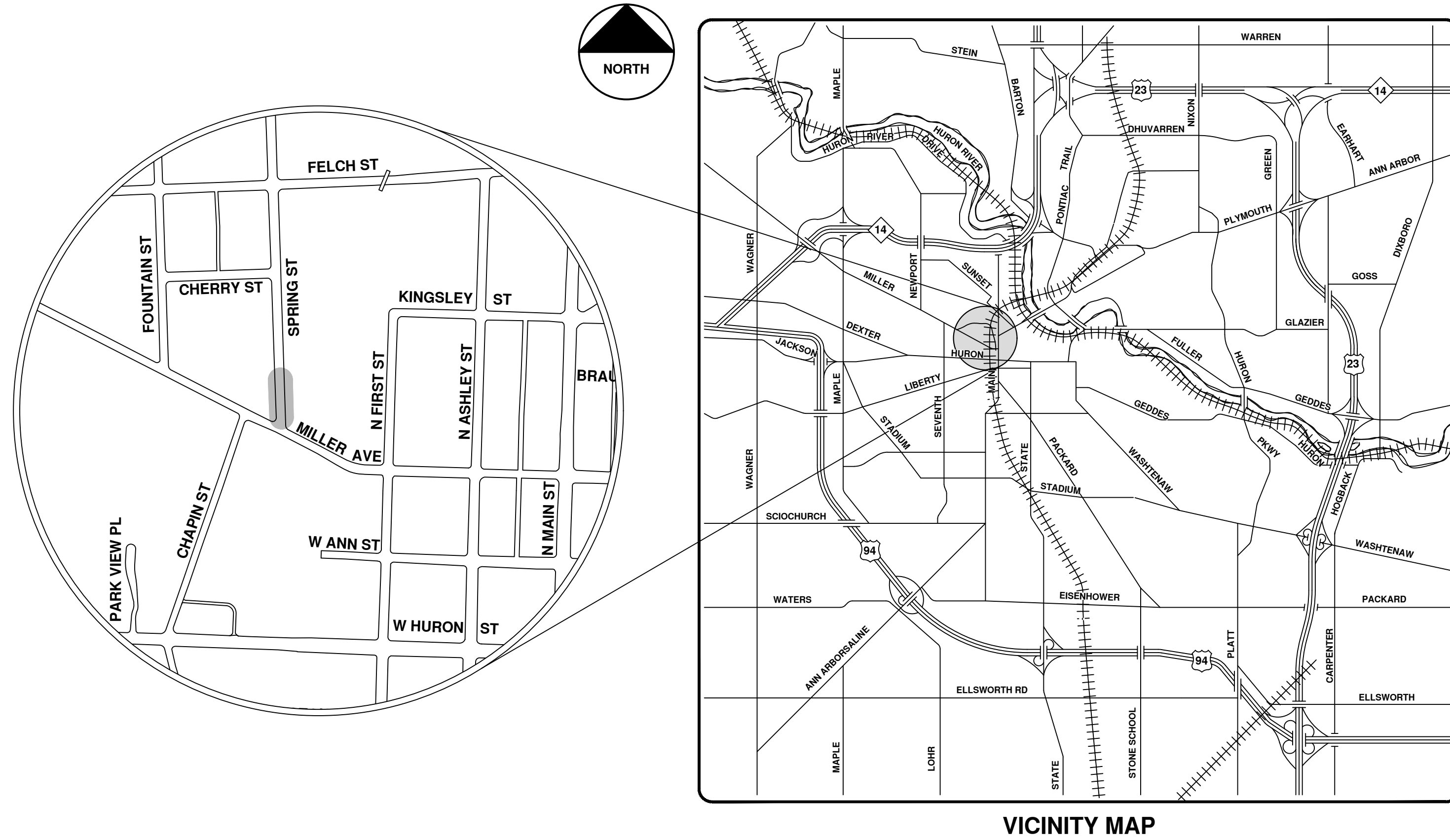
SHEET No.
INDEX No. 227A
SHELF No. 6
SIZE C
SUB. No. 878
DRAWN BY
TRACED BY
CHECKED BY

BOARD OF PUBLIC WORKS
ANN ARBOR, MICHIGAN
PLAN AND PROFILE
OF
SANITARY SEWER
FRIEZE AVE.
Ferdon Road to Brockman.
Geo. H. Sandenburgh, City Engineer
1940
Scale: Plan 1"=40' Profile Vert 1"=4'



2022 SEWER LINING PROJECT

SPRING ST



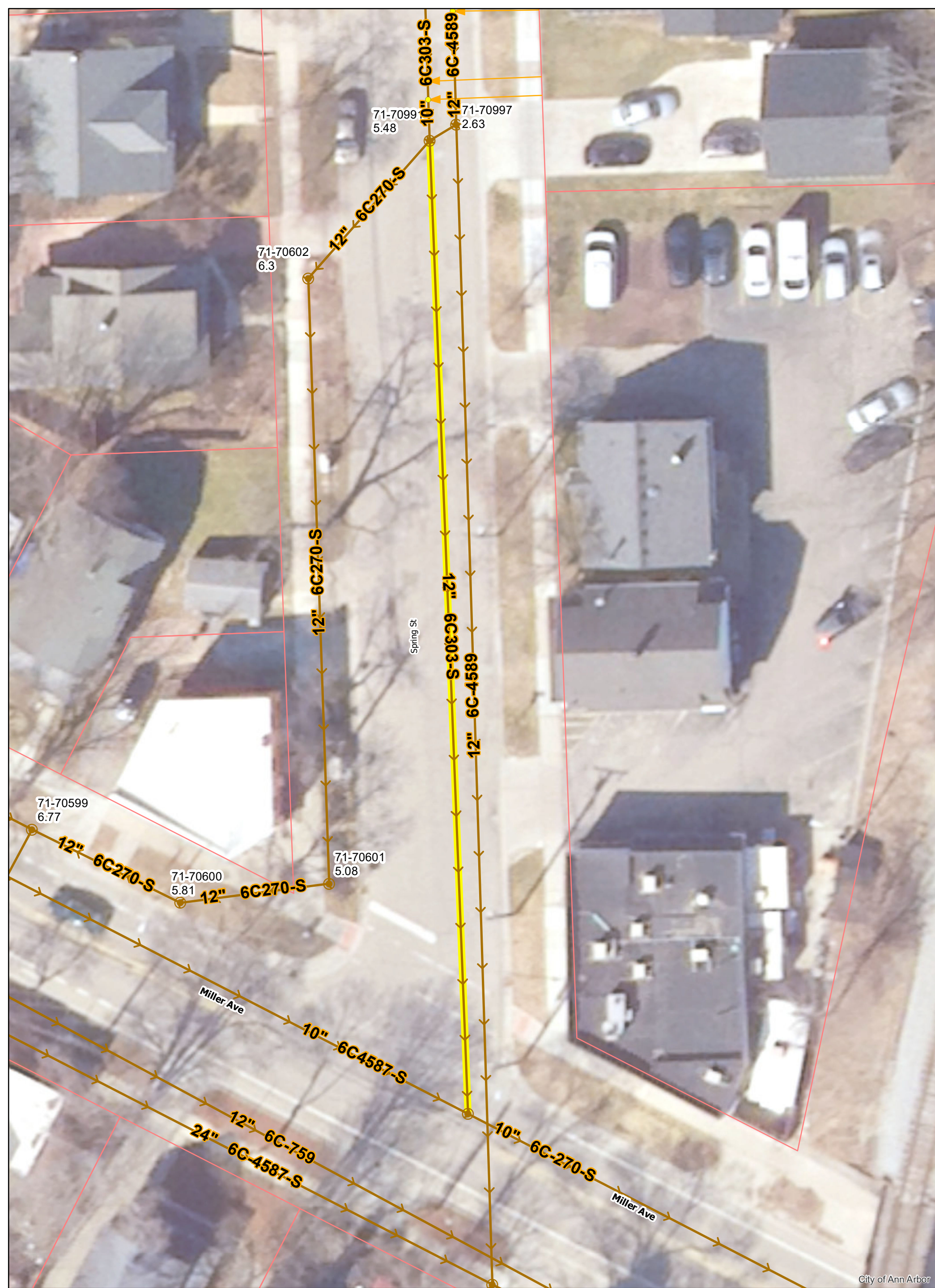
VICINITY MAP

R:\2022011 Sewer Lining 2022\Plan Production\2022011CovSan.dwg - _o2_standard bw.stb - Plot Date: 12/7/2021 10:38:26 AM



ENGINEERING
 CITY OF ANN ARBOR PUBLIC SERVICES
 301 EAST HURON STREET, P.O. BOX 8647
 ANN ARBOR, MICHIGAN 48107-8647
 734-794-6410 www.a2gov.org

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MICHIGAN 48107-8647 www.a2gov.org	
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING SCALE DRAWING No. 2022011-83	SHEET No. 83 OF 105
REV.	DESCRIPTION
00 BID SET	DATE 12/10/21
01 REV.	DRAWN ARG
02 CHECKED	IK

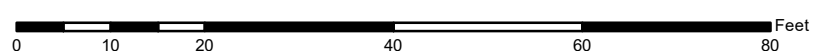


Spring St.

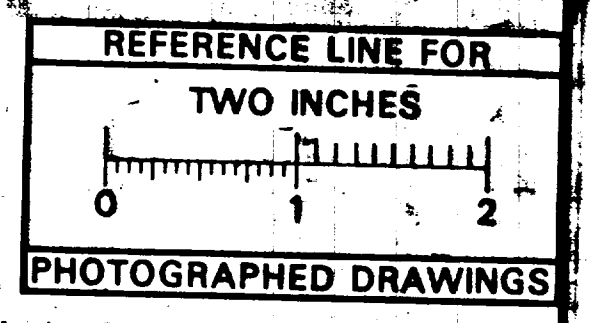
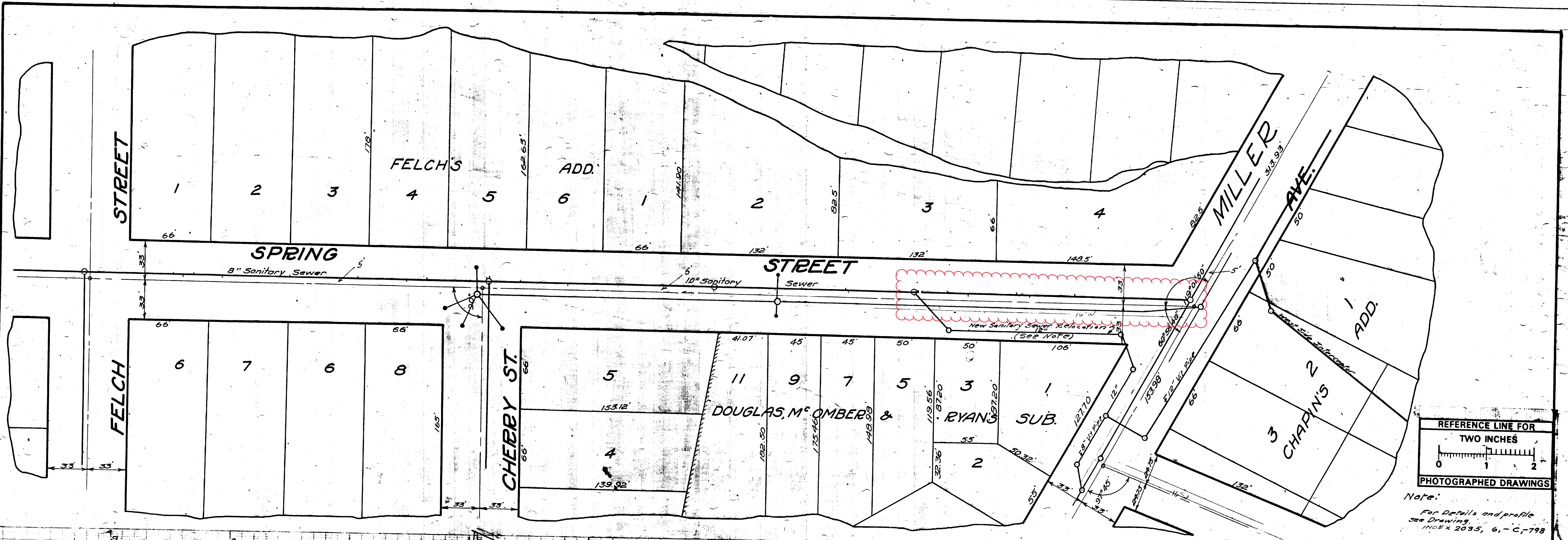


- Manholes
- Proposed Lining
- Sanitary Main
- Sanitary Lateral

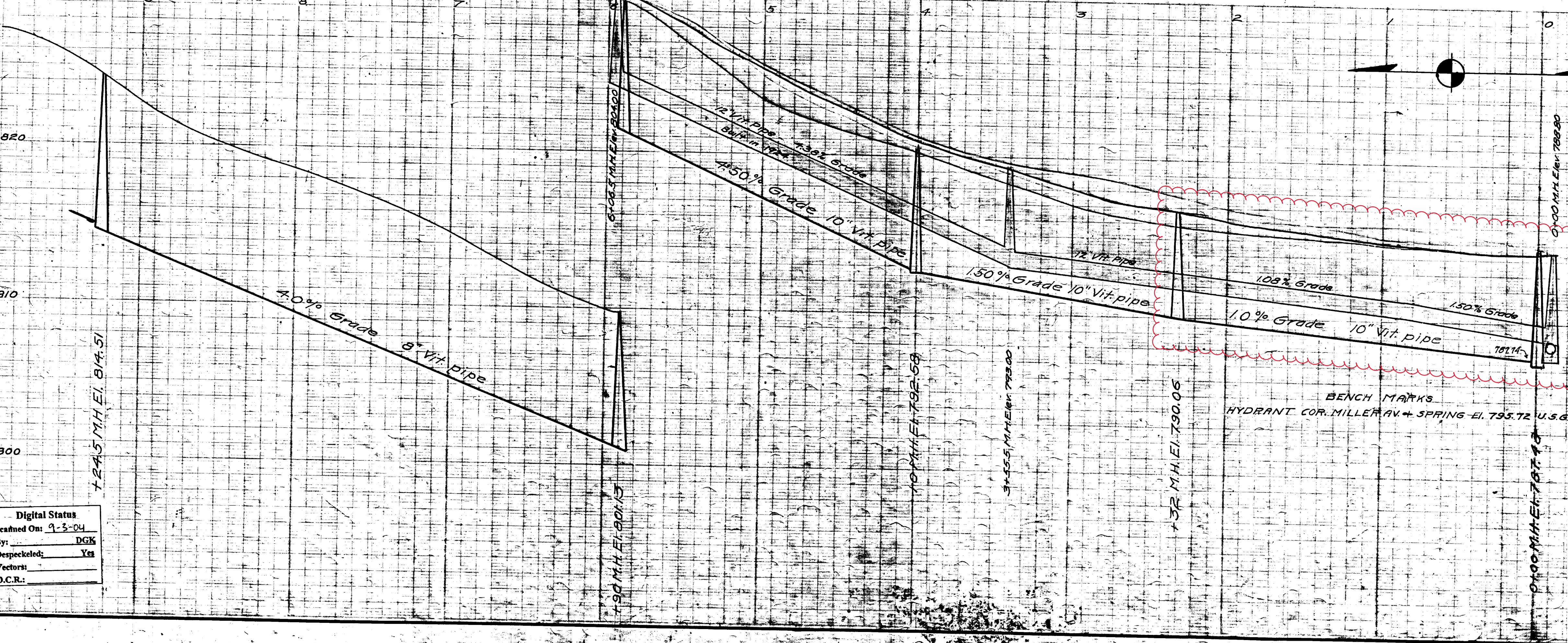
71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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Note:
For Details and profile see Drawing INDEX 2035, 6, - C, - 798



Measurements to House Connections
Miller Av. to Cherry St.
Y'S Only
0+00 = M.H. at Miller Av.

EAST	WEST
97.0	153.0
146.0	186.6
204.0	232.0
289.3	287.3
326.0	348.5
417.5	399.0
492.0	400.0
591.0	490.0
592.0	523.5

590 = M.H.
Cherry St. to Felch St.
0+00 = M.H. at Cherry St.

EAST	WEST
52.0	63.5
110.0	126.0
167.0	224.3
249.0	257.0
265.0	

334.5 M.H. at Felch St.

SHEET No 270
INDEX No 910
SHELF No 6
SIZE C
SUB No 303
Drawn by
Traced by Person
Checked by

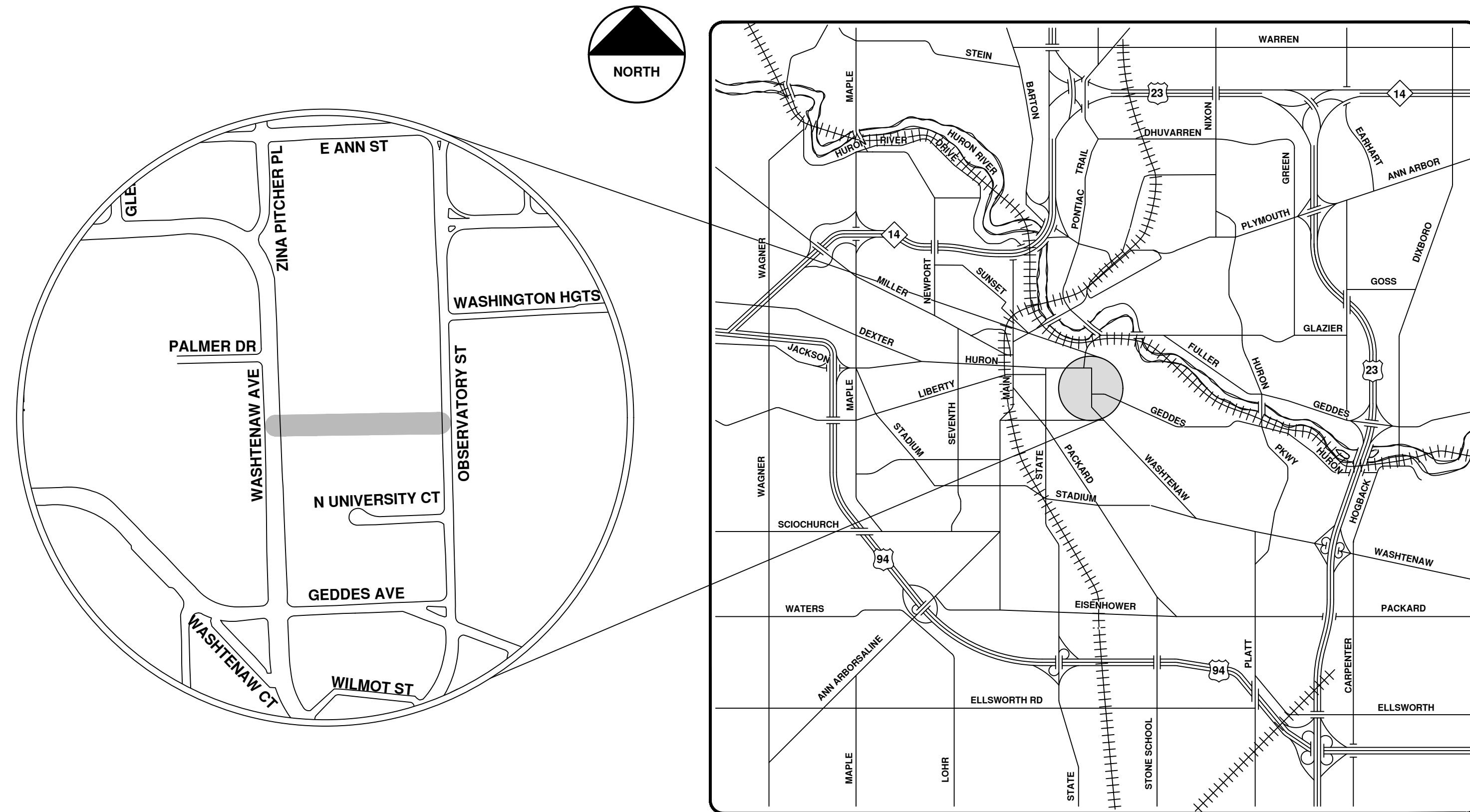
CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
STORM AND SANITARY SEWERS
SPRING ST.
FELCH ST. TO MILLER AVE.
Manley Osgood, City Engineer
1917
Scale: Plan 1"=20' Profile Horizontal 1"=40'

Digital Status
Scanned On: 9-5-04
By: DGB
Despeckled: Yes
Vectors:
O.C.R.:



2022 SEWER LINING PROJECT

CROSSLOT BETWEEN 325 WASHTENAW AVE & 324 OBSERVATORY ST



VICINITY MAP

R:\2022011 Sewer Lining 2022\Plan Production\2022011CovSan.dwg - _o2 standard bw.stb - Plot Date: 12/7/2021 10:38:31 AM



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00	BID SET	12/07/21	ARG	IK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2022011-86

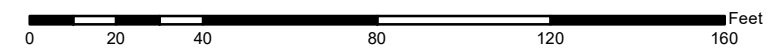
SHEET No.

86 OF 105



Crosslot between 325 Washtenaw Ave. & 324 Observatory St.

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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City of Ann Arbor

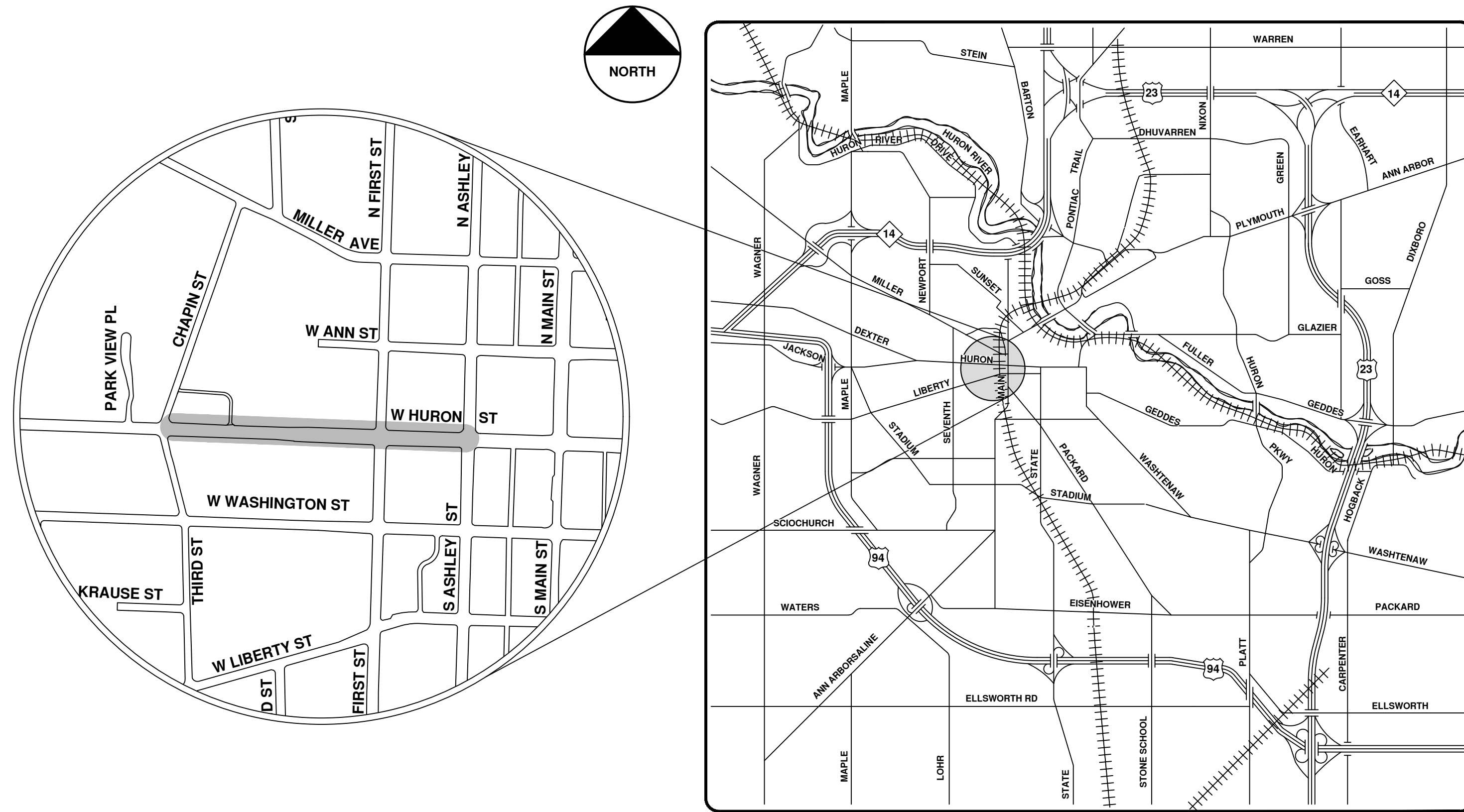


	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral



2022 SEWER LINING PROJECT

W HURON ST




VICINITY MAP

R:\2022011 Sewer Lining 2022\Plan Production\2022011CovSan.dwg - _o2_standard bw.stb - Plot Date: 12/7/2021 10:38:37 AM



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING			
SCALE	DRAWING No.	CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MICHIGAN 48107-8647 734-794-6410 www.a2gov.org	
SHEET No.	2022011-88	811 Know what's below. Call before you dig.	
88 OF 105		00 REV.	BID SET DATE 12/10/21 ARG DRAWN IK CHECKED

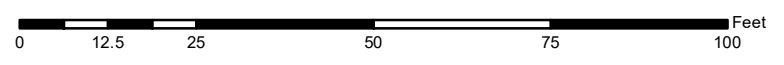


W. Huron St.



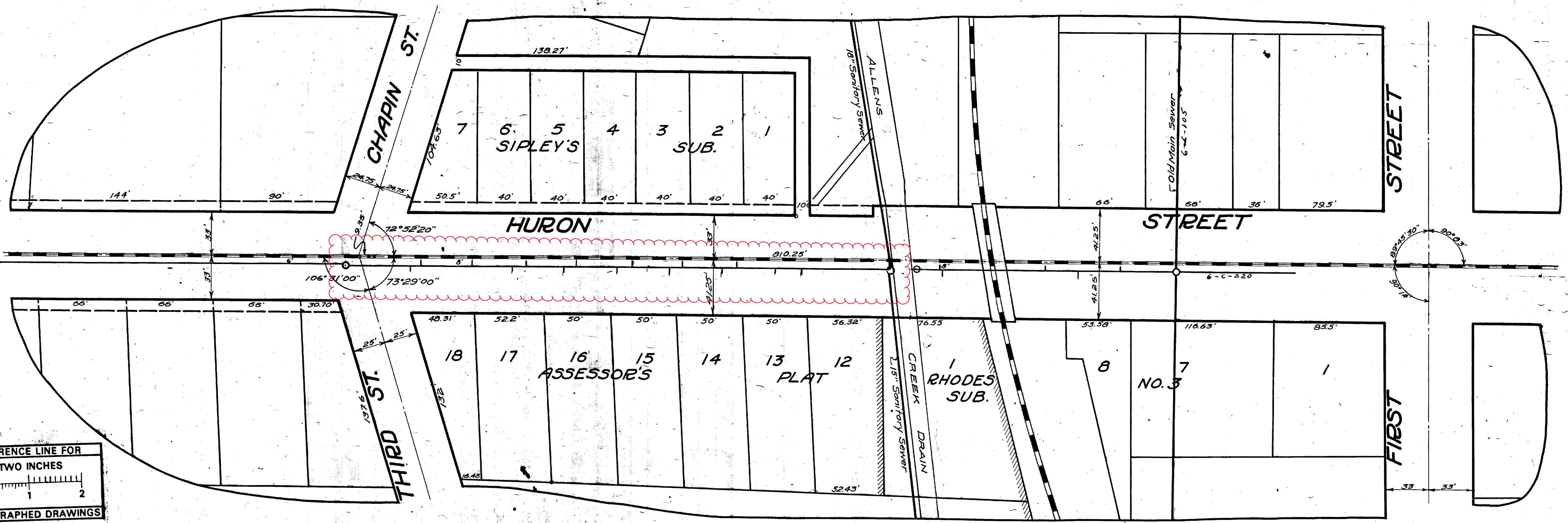
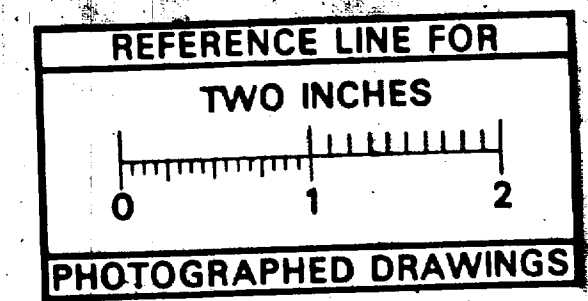
	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
 X.XX (Manhole Depth)



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City of Ann Arbor



MEASUREMENTS
TO
HOUSE CONNECTIONS

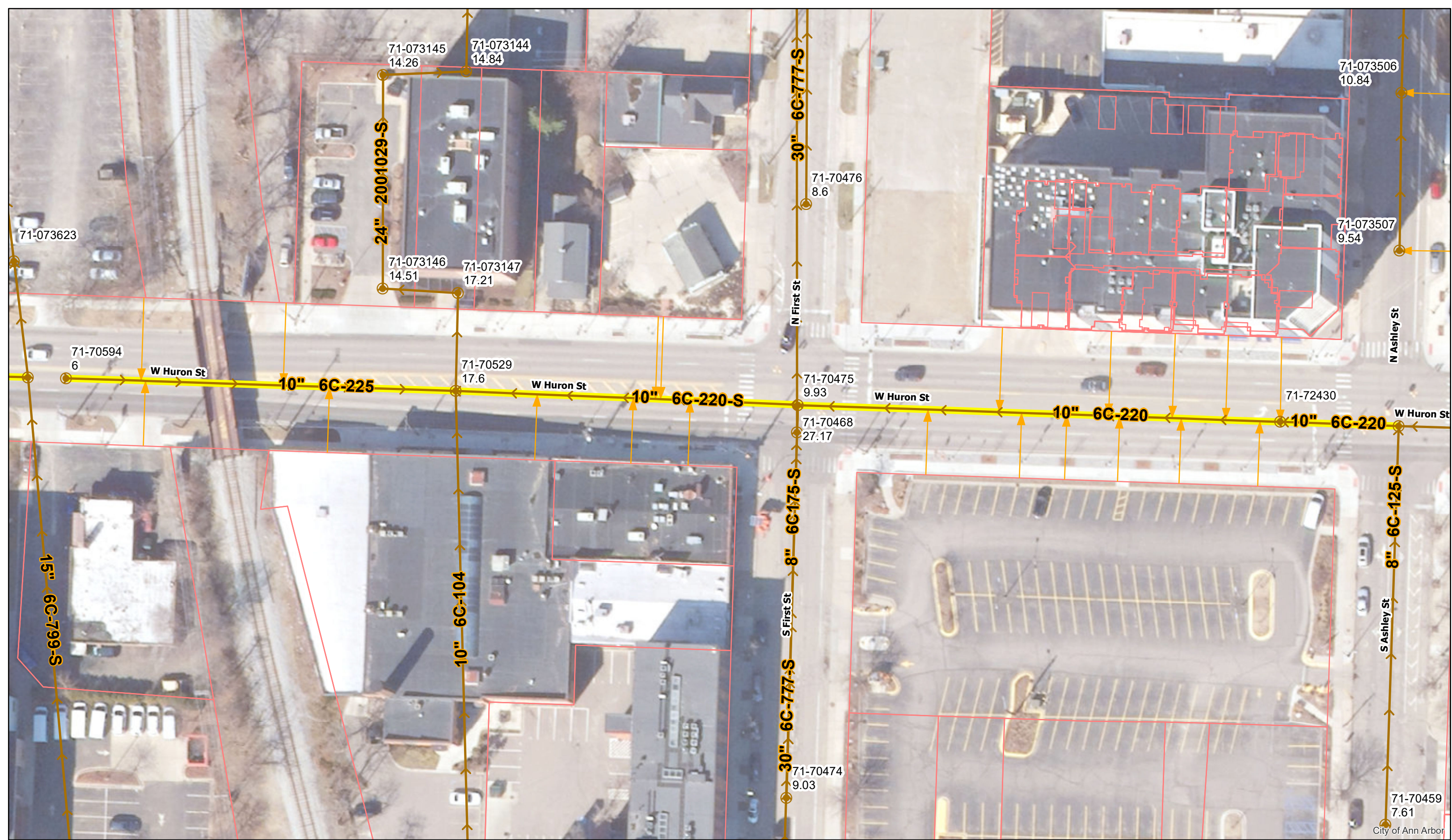
Sta. O.	17 1/2\"/>
North	South
43	73.4
100	178.3
177.5	282.4
332.8	308.8
373.0	343.3
423	389
434	438.5
492.5	465
534	504
573	581
630 17 1/2\"/>	



Digital Status
Scanned On: 8-27-04
By: DKG
Despeckled: Yes
Vectors:
O.C.R.:

SHEET No 169
INDEX No 841
SHELF No: 6
SIZE 0
SUB No. 225
Drawn by
Traced by Feiner
Checked by J

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY AND
PAVEMENT
HURON ST.
FIRST TO CHAPIN
Manley Osgood, City Engineer.
1917
Scale: Plan 1"=40' Profile Horizontal 1"=4'

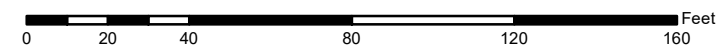


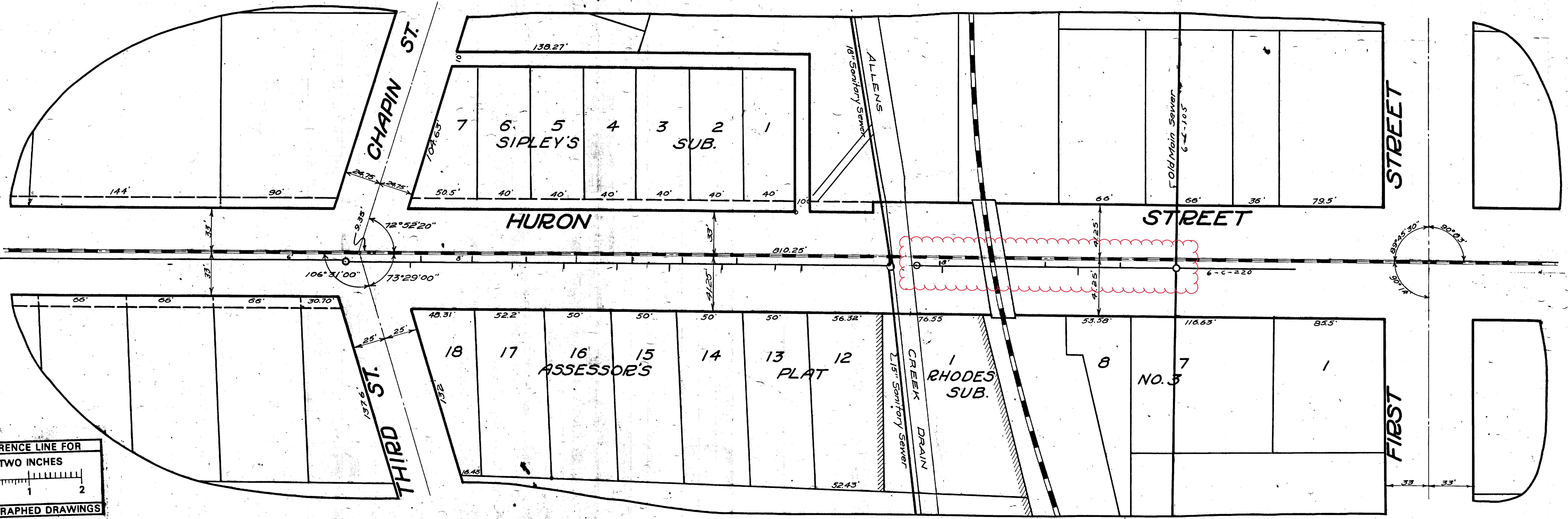
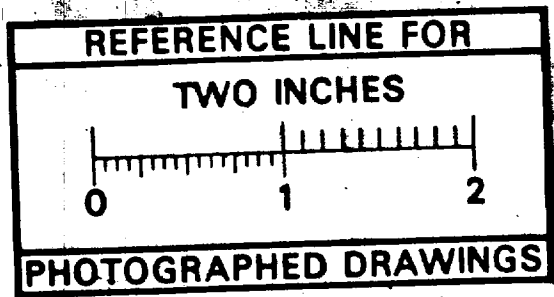
W. Huron St.



	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

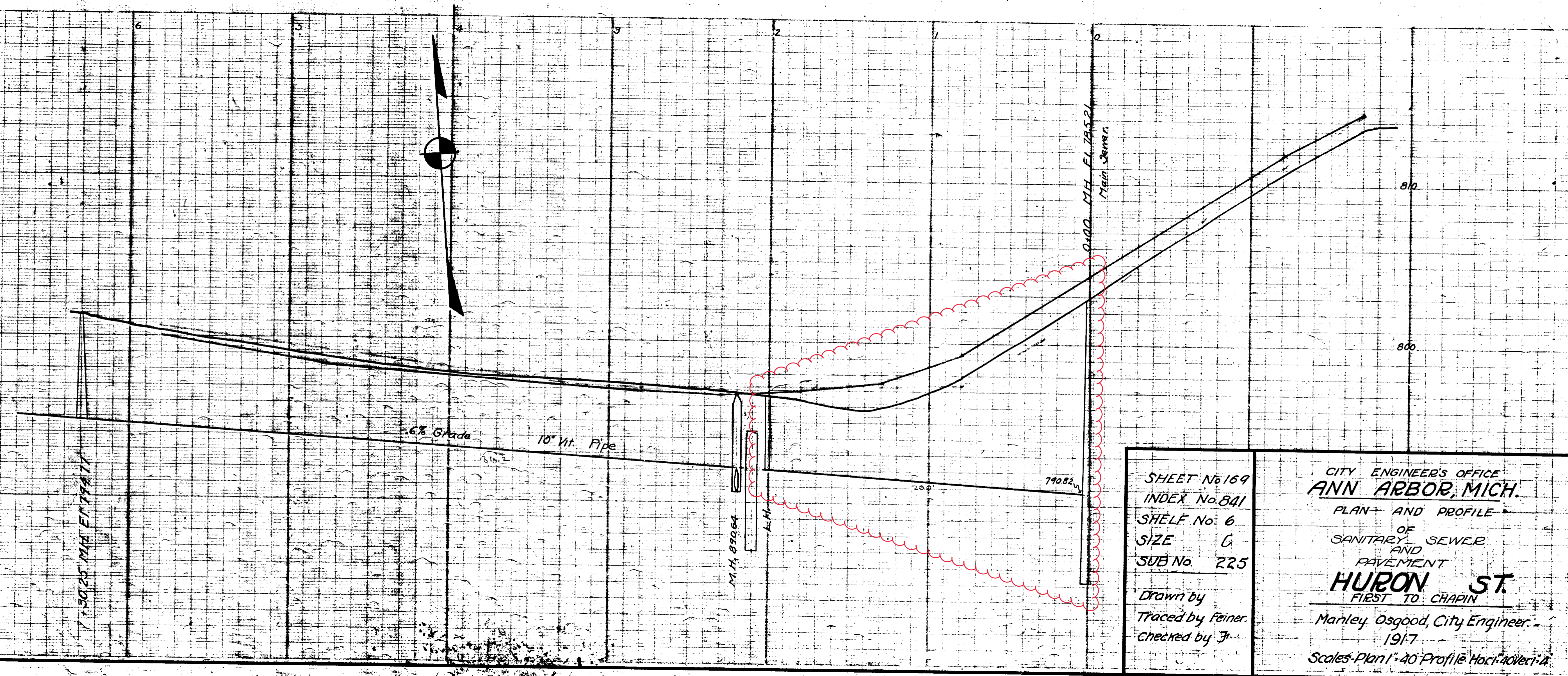
71-XXXXX (Manhole ID)
X.XX (Manhole Depth)





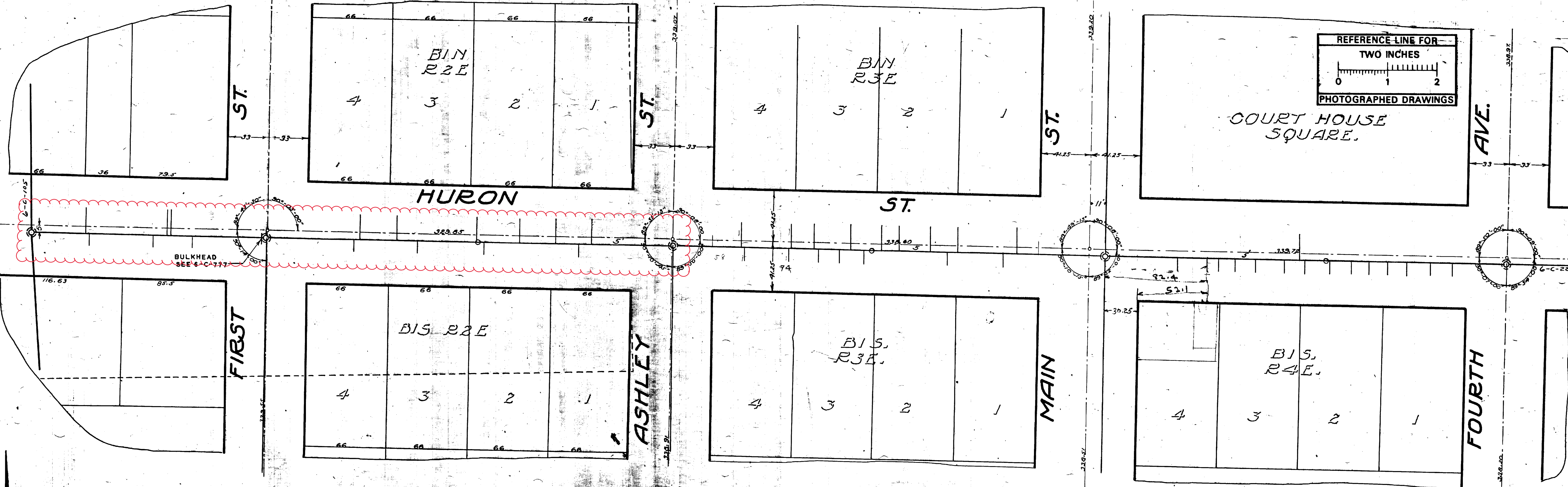
MEASUREMENTS
TO
HOUSE CONNECTIONS

Sta. O.	17 1/2\"/>
North	South
100	174.4
177.0	282.4
332.0	302.8
373.0	343.3
423	383
474	423.5
492.5	464
534	504
573	544
630 1/2\"/>	



Digital Status
Scanned On: 8-27-04
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

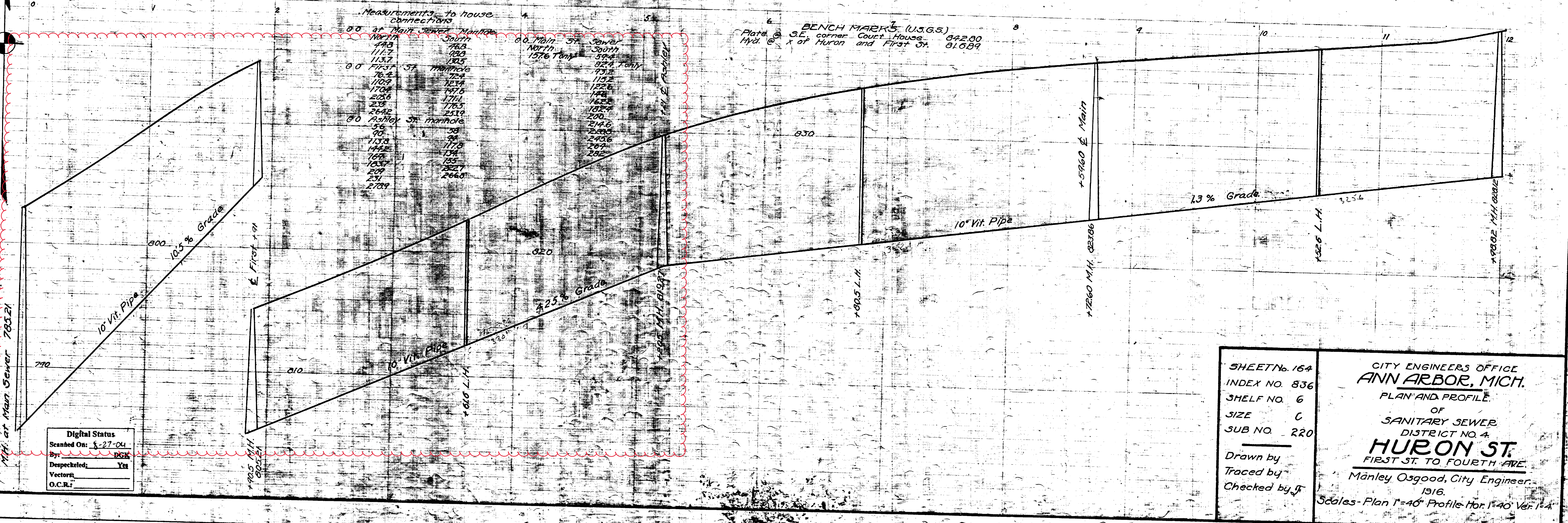
<p>SHEET No 169 INDEX No 841 SHELF No 6 SIZE 0 SUB No 225</p> <p>Drawn by Traced by Feiner Checked by J</p>	<p>CITY ENGINEER'S OFFICE ANN ARBOR, MICH. PLAN AND PROFILE OF SANITARY AND PAVEMENT HURON ST. FIRST TO CHAPIN Manley Osgood, City Engineer. 1917 Scale: Plan 1"=40' Profile Horizontal 1"=4'</p>
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Measurements to house connections

Station	North	South
0+00	483	763
0+10	1117	1000
0+20	1157	1005
0+30	1157	1024
0+40	1109	1076
0+50	1006	1171
0+60	206	1765
0+70	238	2539
0+80	2642	2539
0+90	56	58
1+00	1138	58
1+10	1442	1175
1+20	167	134
1+30	1037	134
1+40	207	1327
1+50	2789	2660

BENCH MARKS (U.S.G.S.)
 Plate 8 S.E. corner Court House. 822.00
 Hyd. 6 x of Huron and First St. 81.689



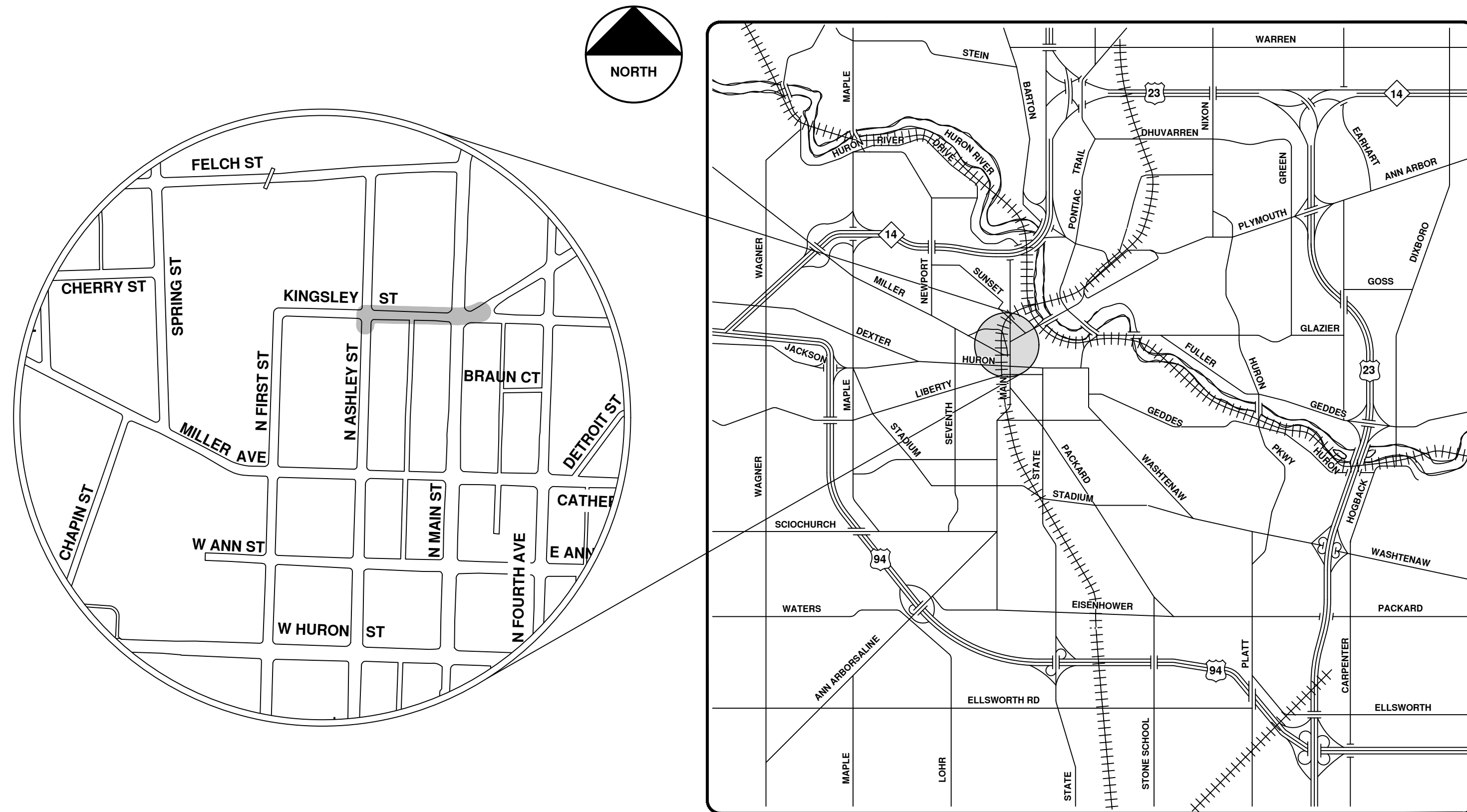
SHEET No. 164	CITY ENGINEERS OFFICE ANN ARBOR, MICH. PLAN AND PROFILE OF SANITARY SEWER DISTRICT NO. 4 HURON ST. FIRST ST. TO FOURTH AVE. Manley Osgood, City Engineer. 1916. Scales - Plan 1"=40' Profile Hor. 1"=40' Ver. 1"=4'
INDEX No. 836	
SHELF No. 6	
SIZE C	
SUB No. 220	
Drawn by	
Traced by	
Checked by JF	

Digital Status
 Scanned On: 8-27-04
 By: JPK
 Despeckled: Yes
 Vectors: Yes
 O.C.R.: Yes



2022 SEWER LINING PROJECT

W KINGSLEY ST



VICINITY MAP

R:\2022011 Sewer Lining 2022\Plan Production\2022011CovSan.dwg - _o2_standard bw.stb - Plot Date: 12/7/2021 10:38:42 AM



ENGINEERING
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	12/10/21	ARG	IK

CITY OF ANN ARBOR
 PUBLIC SERVICES
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 ANN ARBOR, MI 48107-8647
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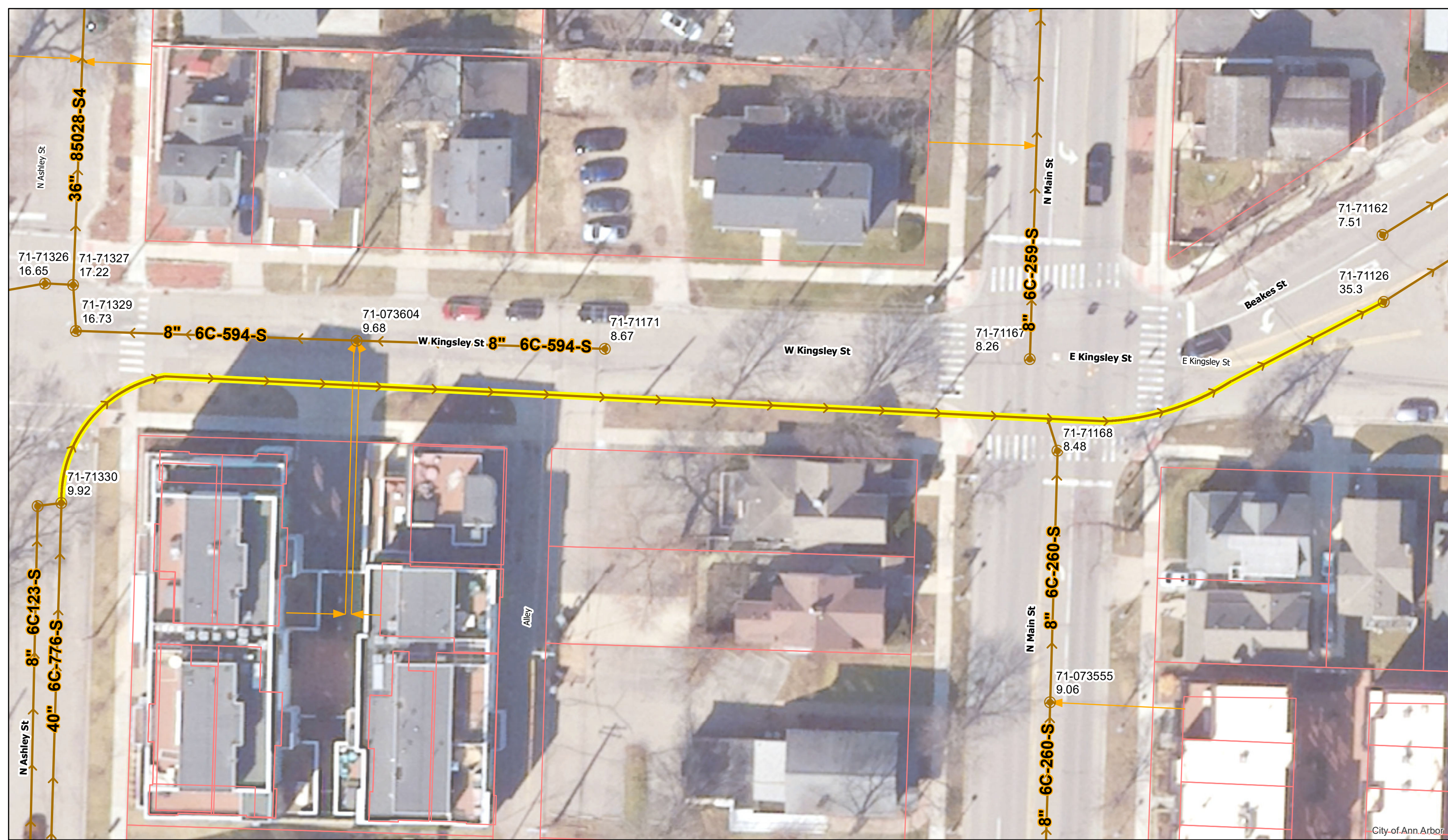


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2022011-94

SHEET No.

94 OF 105

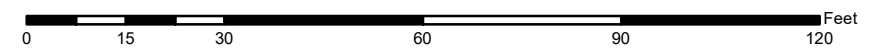


W. Kingsley St.



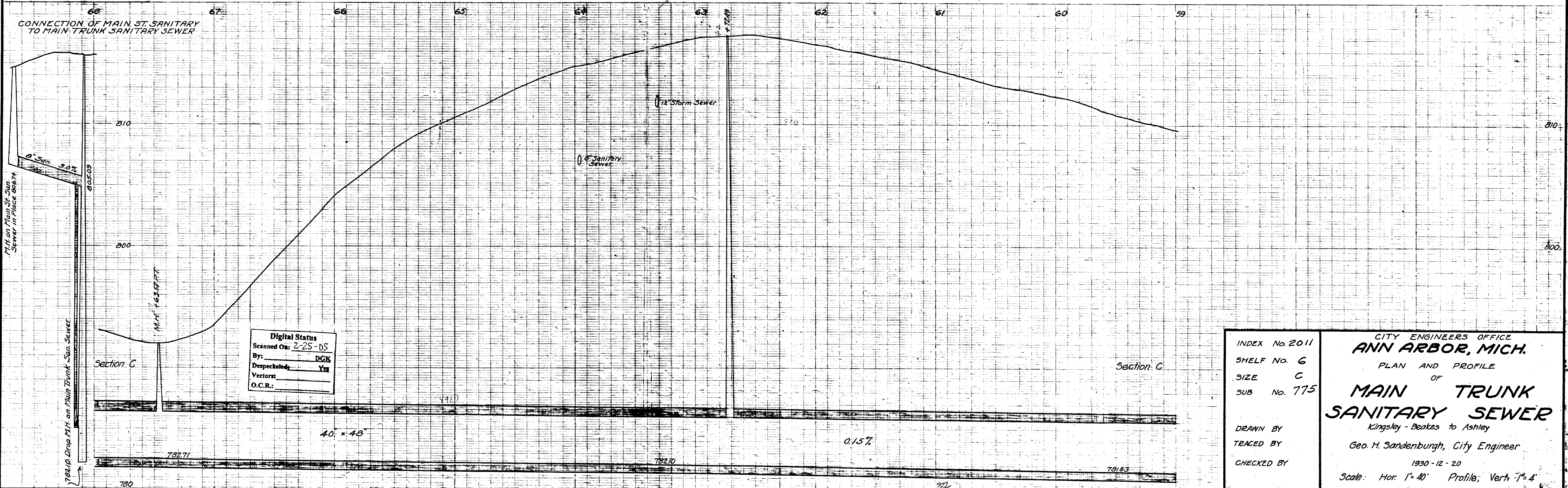
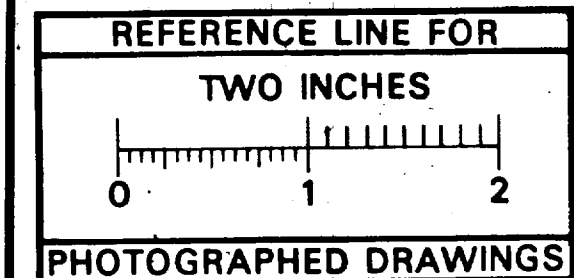
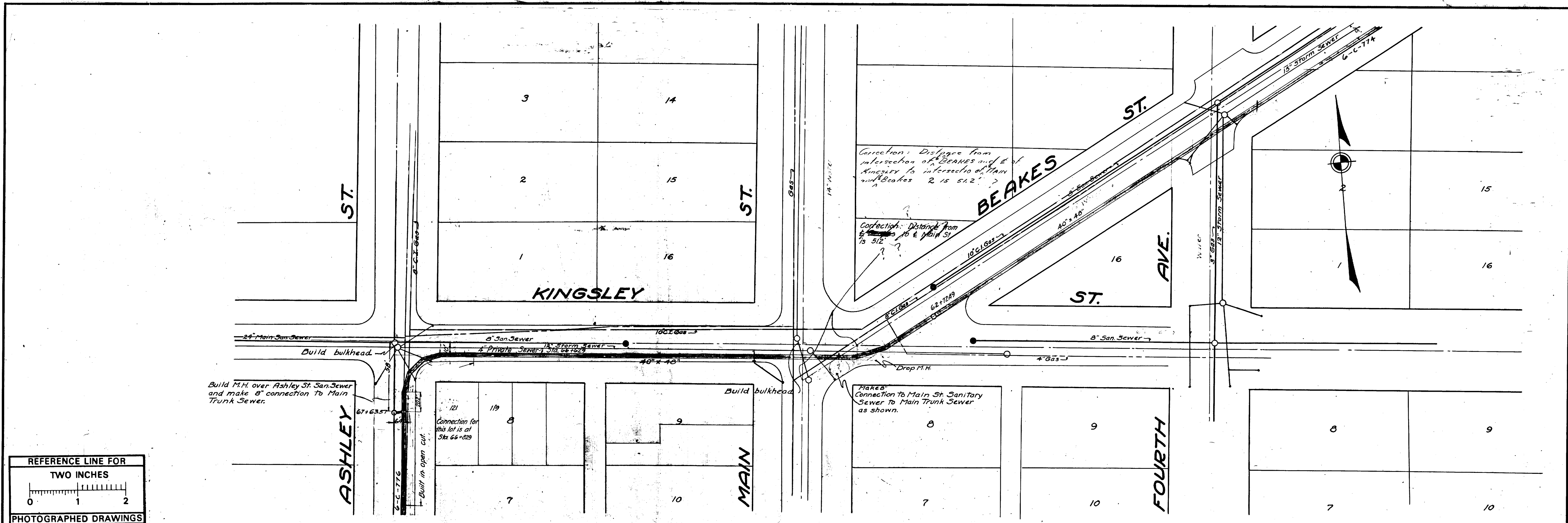
	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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City of Ann Arbor



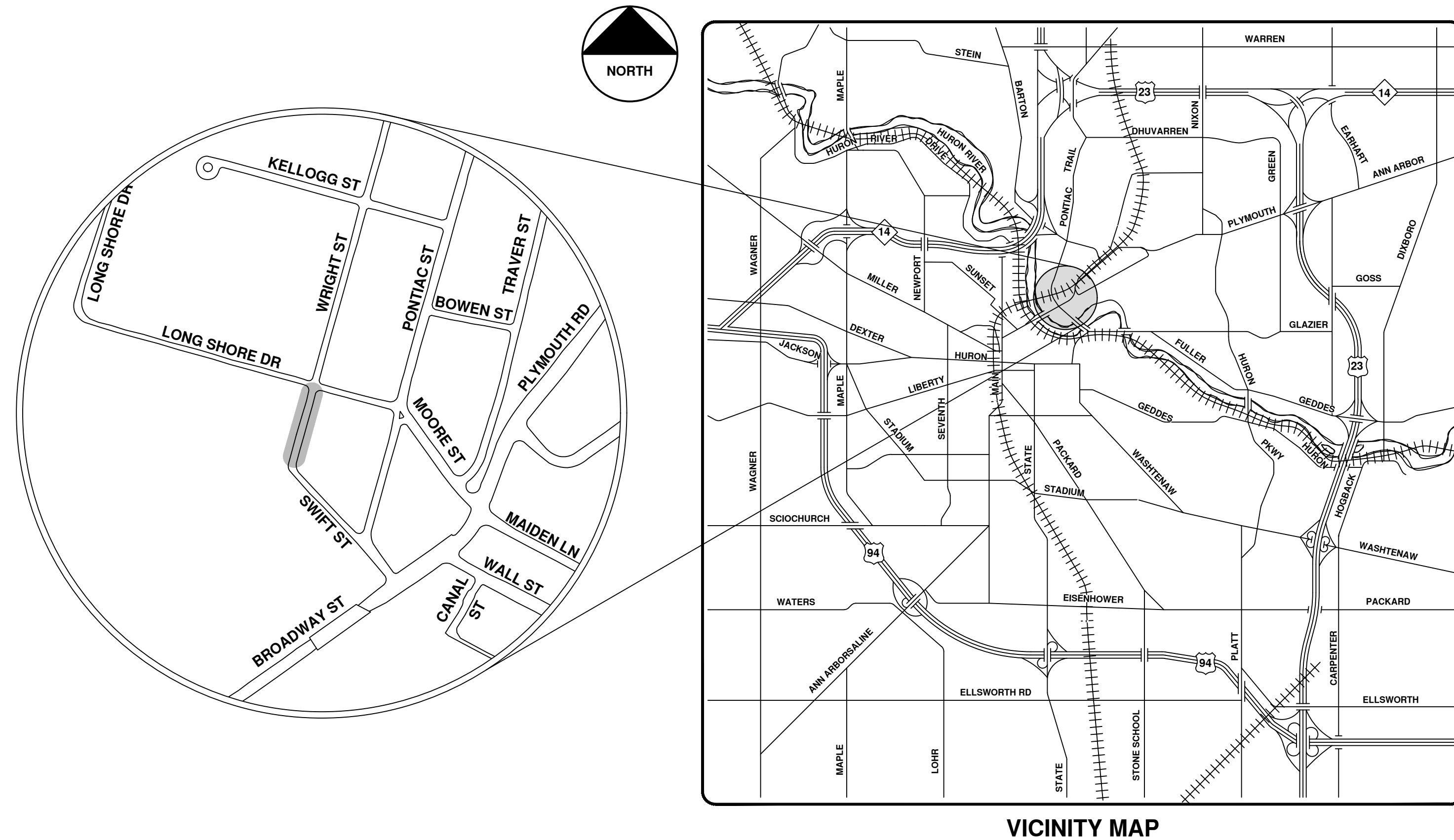
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INDEX No 2011	CITY ENGINEERS OFFICE ANN ARBOR, MICH. PLAN AND PROFILE OF MAIN TRUNK SANITARY SEWER Kingsley - Beakes to Ashley Geo. H. Sandenburgh, City Engineer 1930 - 12 - 20 Scale: Hor. 1" = 40' Profile, Vert. 1" = 4'
SHELF No. 6	
SIZE C	
SUB No. 775	
DRAWN BY	
TRACED BY	
CHECKED BY	



2022 SEWER LINING PROJECT

WRIGHT ST



VICINITY MAP

R:\2022011 Sewer Lining 2022\Plan Production\2022011CovSan.dwg - _o2 standard bw.stb - Plot Date: 12/7/2021 10:38:46 AM



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	12/10/21	ARG	IK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2022011-97

SHEET No.

97 OF 105

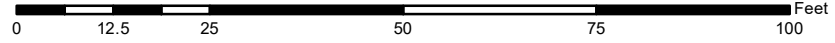


Wright St.

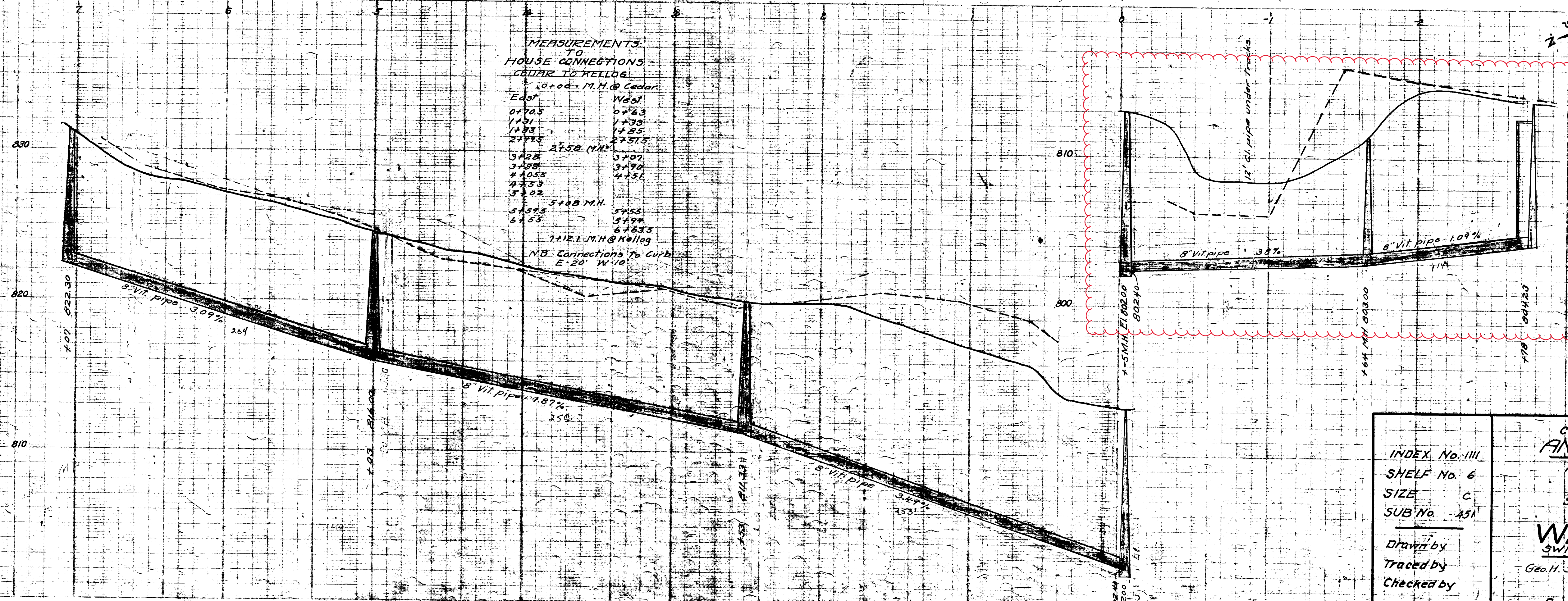
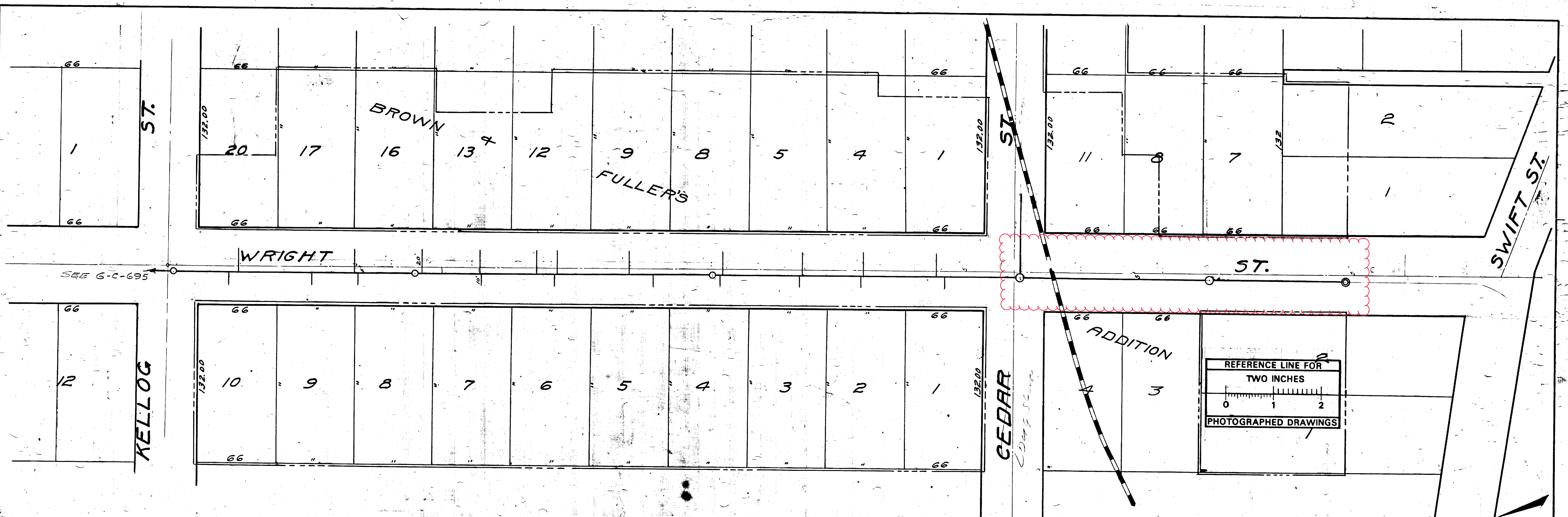


	Manholes		Sanitary Main
	Proposed Lining		

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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MEASUREMENTS TO HOUSE CONNECTIONS CEDAR TO KELLOGG

10+00 M.H. @ Cedar	
East	West
0+70.5	0+76.3
1+101	1+130
1+183	1+185
2+195	2+31.5
3+120	2+58 M.H.
3+188	3+107
4+105.5	3+190
4+133	4+151
5+102	
5+100 M.H.	
5+155	5+155
6+155	5+194
	6+153.5
	6+151

1+121 M.H. @ Kellogg
 NB Connections to Curb E 20' W 10'

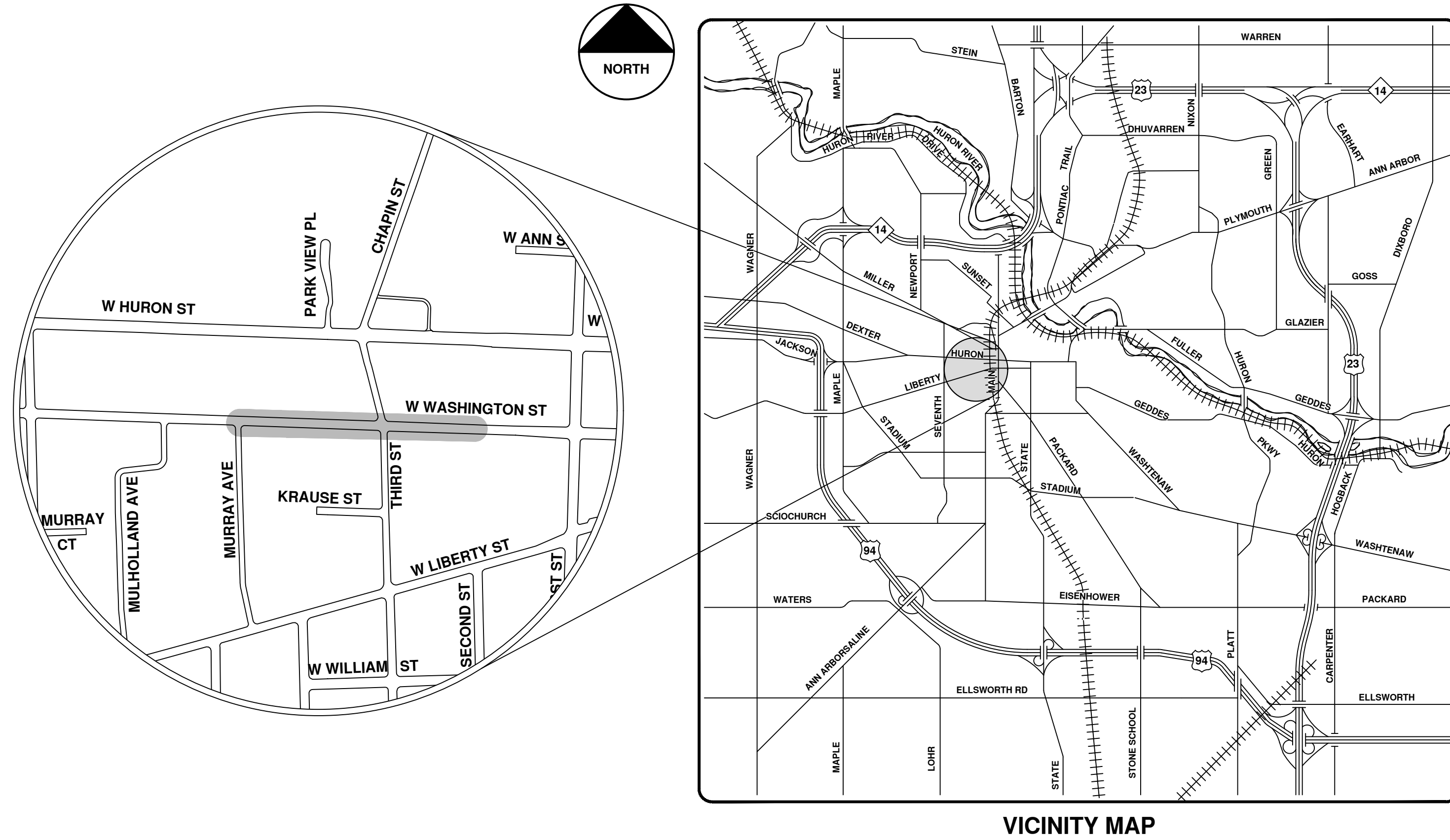
Digital Status
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 By: DGK
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 Vectors:
 O.C.R.:

INDEX No. III	CITY ENGINEER'S OFFICE ANN ARBOR, MICH. PLAN AND PROFILE OF SANITARY SEWER ON WRIGHT ST. SWIFT ST. TO KELLOGG ST. Geo. H. Sandenburgh, City Engineer 1923, 12-5 Scale: Plan 1"=40' Profile 1"=40' Vert 1"=4'
SHELF No. 6	
SIZE C	
SUB No. 151	
Drawn by	
Traced by	
Checked by	



2022 SEWER LINING PROJECT

W WASHINGTON ST



VICINITY MAP

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 CITY OF ANN ARBOR PUBLIC SERVICES
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REV.	DATE	DESCRIPTION
00	12/10/21	BID SET
01		ARG
02		IK
03		CHECKED

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2022011-100

SHEET No.
 100 OF 105



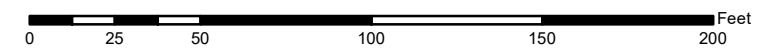
City of Ann Arbor

W. Washington St.

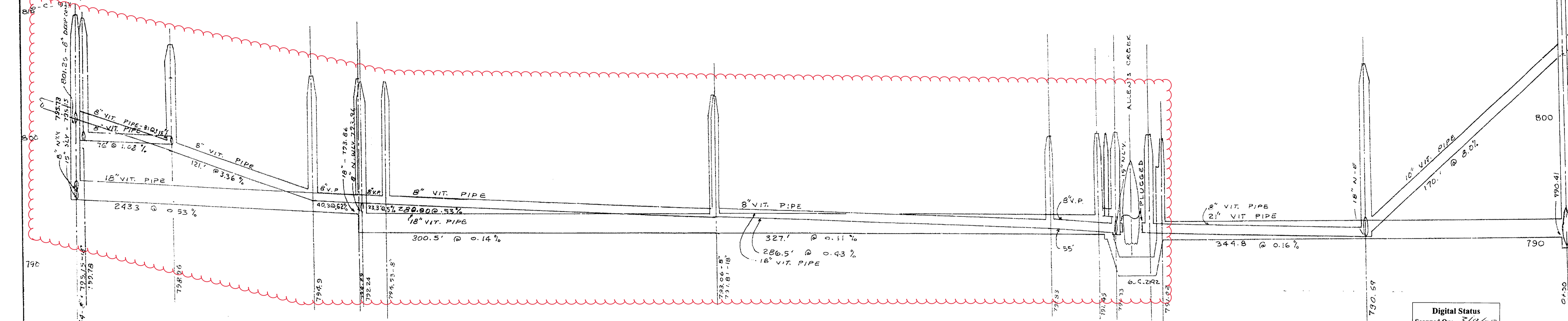
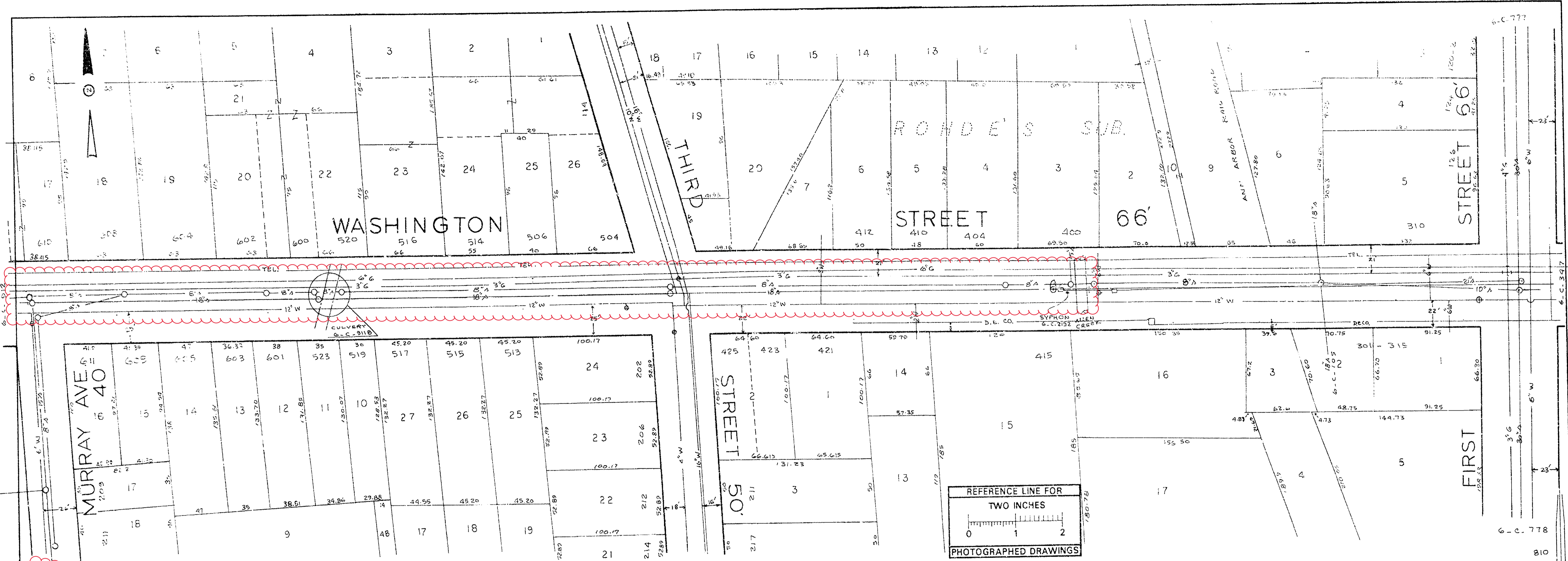


	Manholes		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
X.XX (Manhole Depth)



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SEE SHEET 6C-911A
FOR HOUSE LEADS ON SOUTH SIDE WASHINGTON

NOTE:
Data contained on this page
was drawn from City records.
No guarantee is made as to
its accuracy or completeness.

Digital Status
Scanned On: 5/4/10
By: J.S.M.
Despeckled:
Vectors:
O.C.R.:

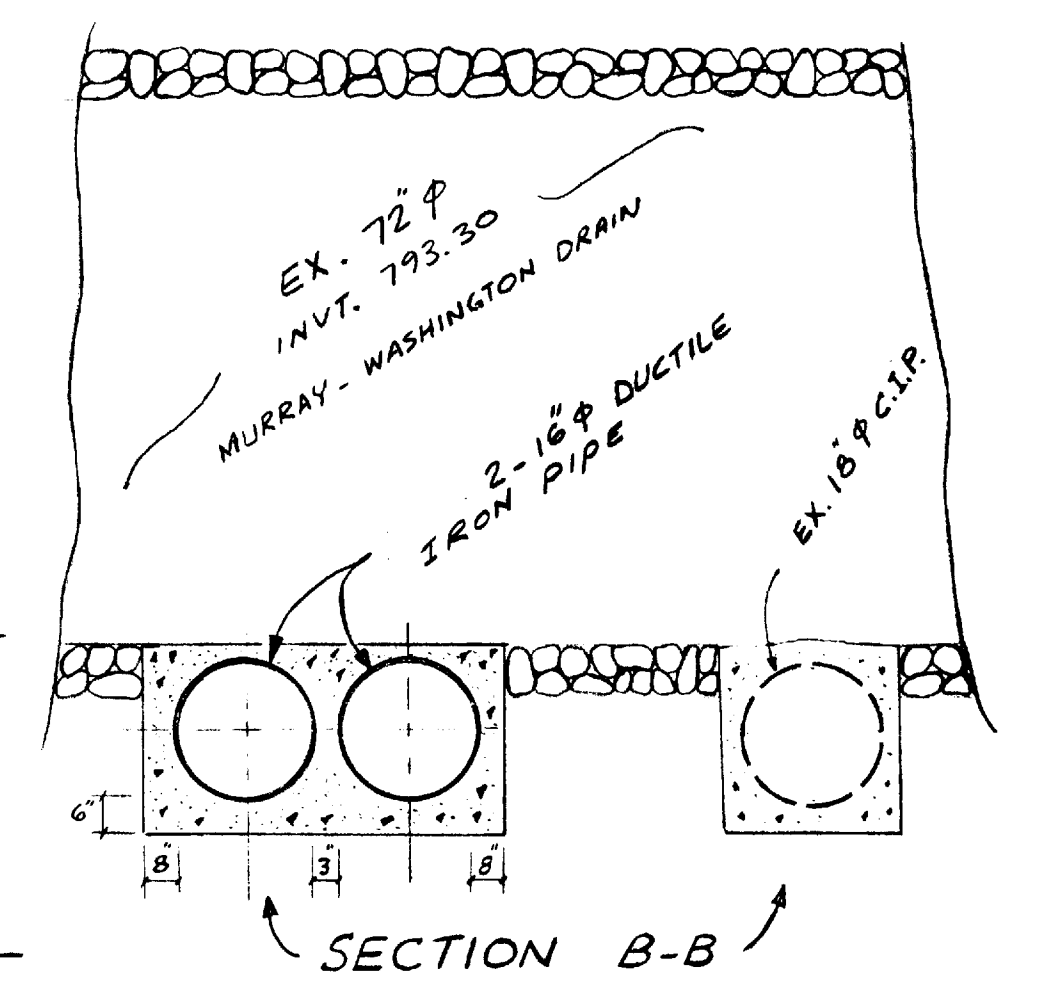
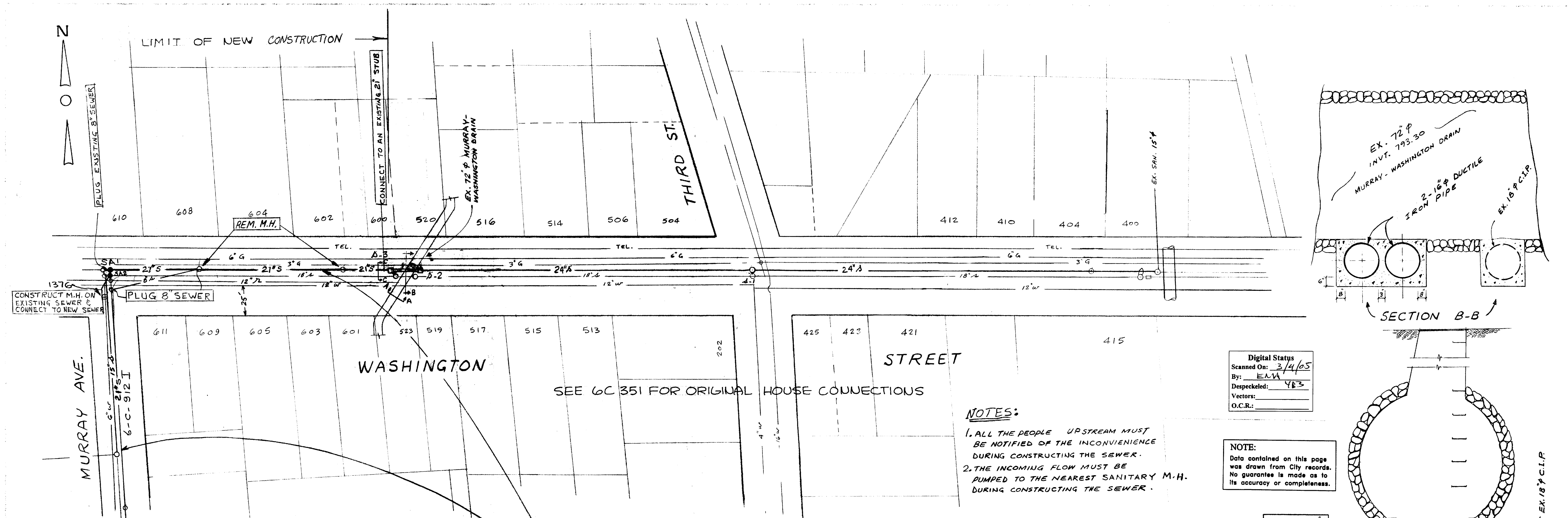
DATE: 8-7	SHEET: 2A	SANITARY & STORM SEWER WASHINGTON ST. FIRST ST TO MURRY AVE.
BY: Y.B.	2445	
6-C-911A1		SUPERINTENDENT OF PUBLIC WORKS FREDERICK A. MAMMILL
SCALE: HORIZONTAL 1"=40'		
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN		
JOB NO. 15-2	DIST. 245	MDH PERMIT 792 (9/15/48)
JOB NO. 108	DIST.	PREPARED BY
JOB NO. 108	DIST.	APPROVED BY

LEGEND:

	EXISTING SANITARY		EXISTING STORM		EXISTING GAS
	PROPOSED SANITARY		PROPOSED STORM		EXISTING WATER
	CENTER LINE		RIGHT PROPERTY		LEFT PROPERTY LINE

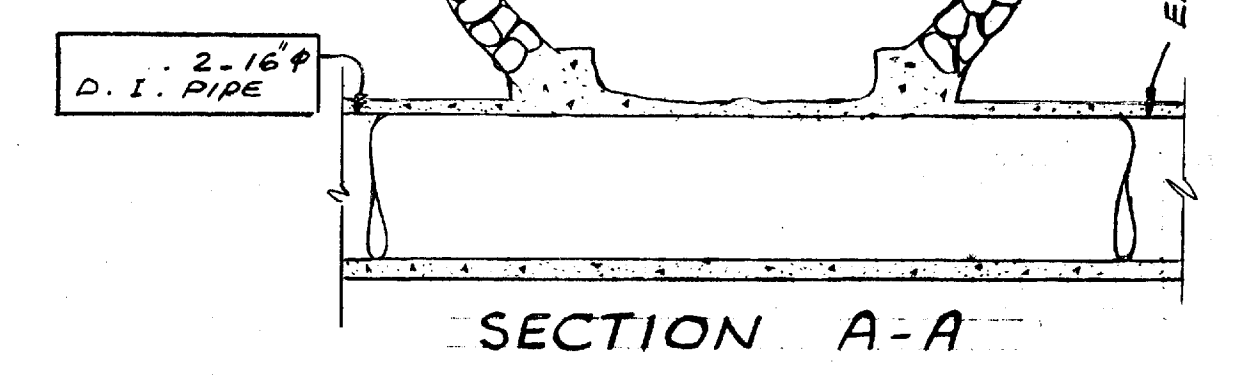
REFERENCES:

	MANHOLE		CATCH BASIN
	VALVE		HYDRANT
	FIRE HYDRANT		FIRE HYDRANT

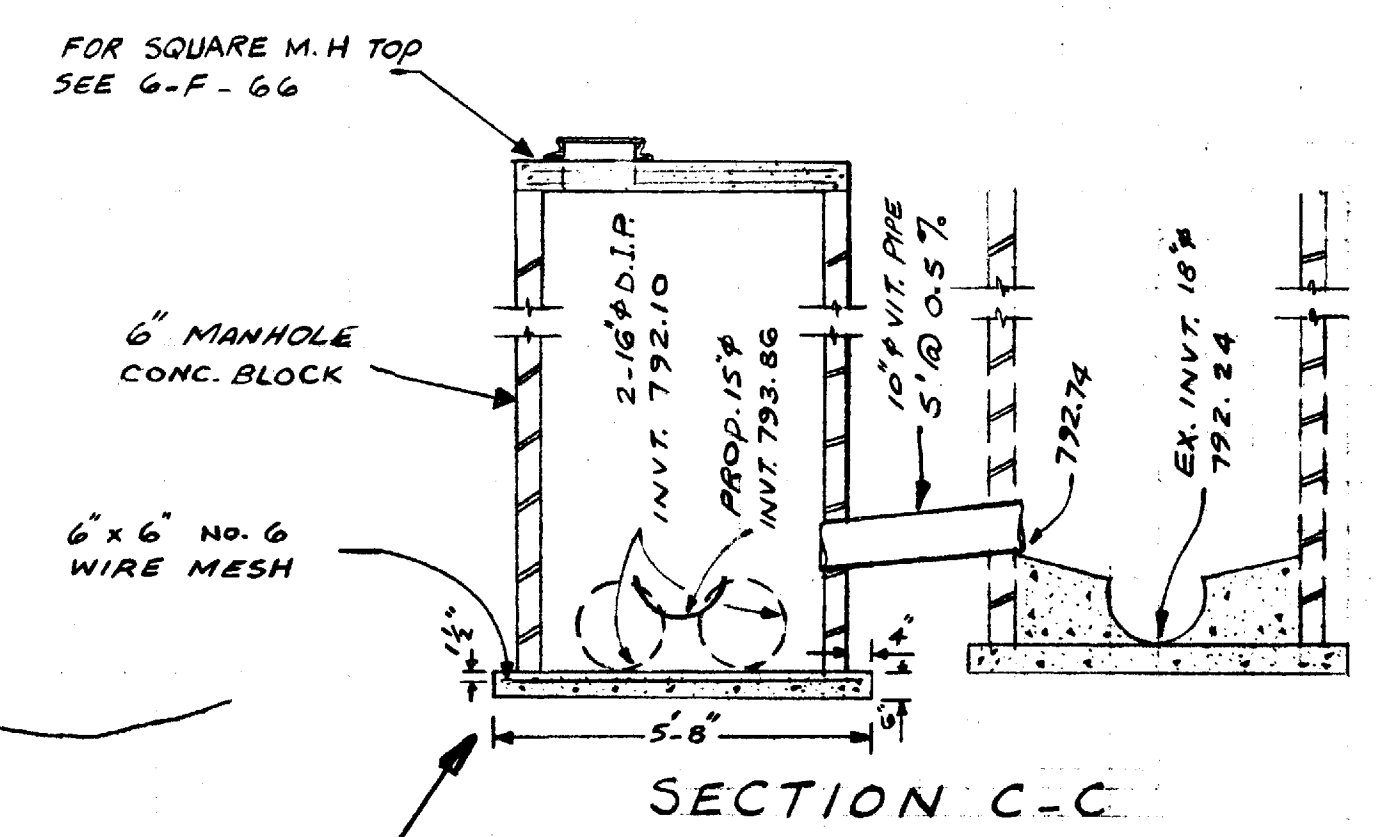


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 By: E.A.V.
 Despeckled: YB3
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 O.C.R.:

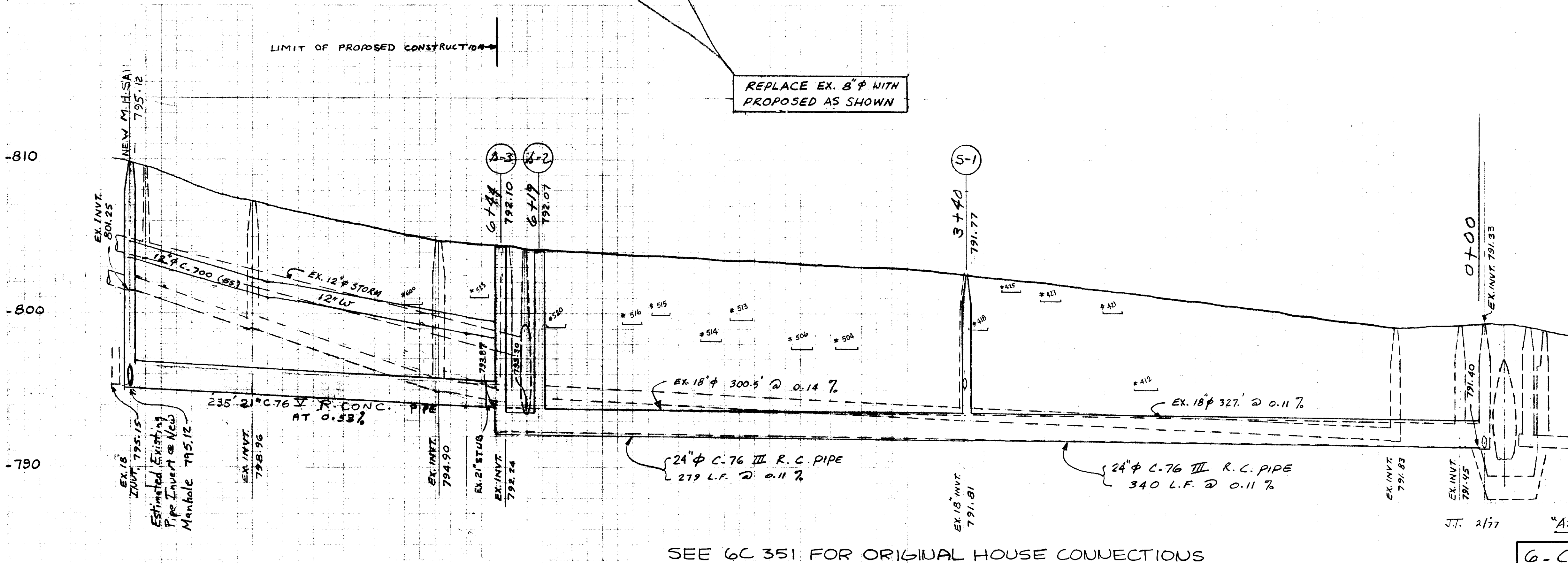
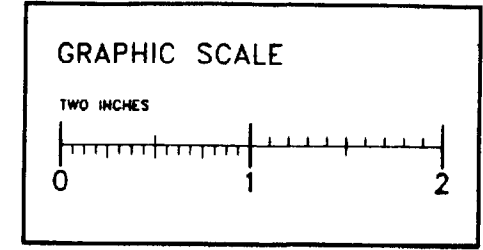
NOTE:
 Data contained on this page was drawn from City records. No guarantee is made as to its accuracy or completeness.



- NOTES:
1. ALL THE PEOPLE UPSTREAM MUST BE NOTIFIED OF THE INCONVENIENCE DURING CONSTRUCTING THE SEWER.
 2. THE INCOMING FLOW MUST BE PUMPED TO THE NEAREST SANITARY M.H. DURING CONSTRUCTING THE SEWER.



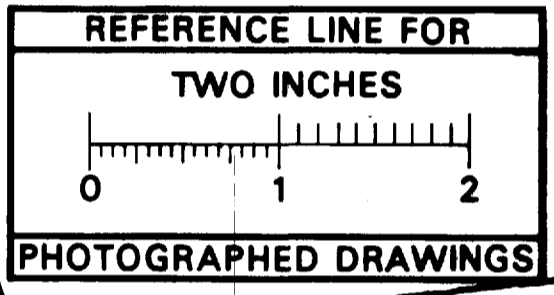
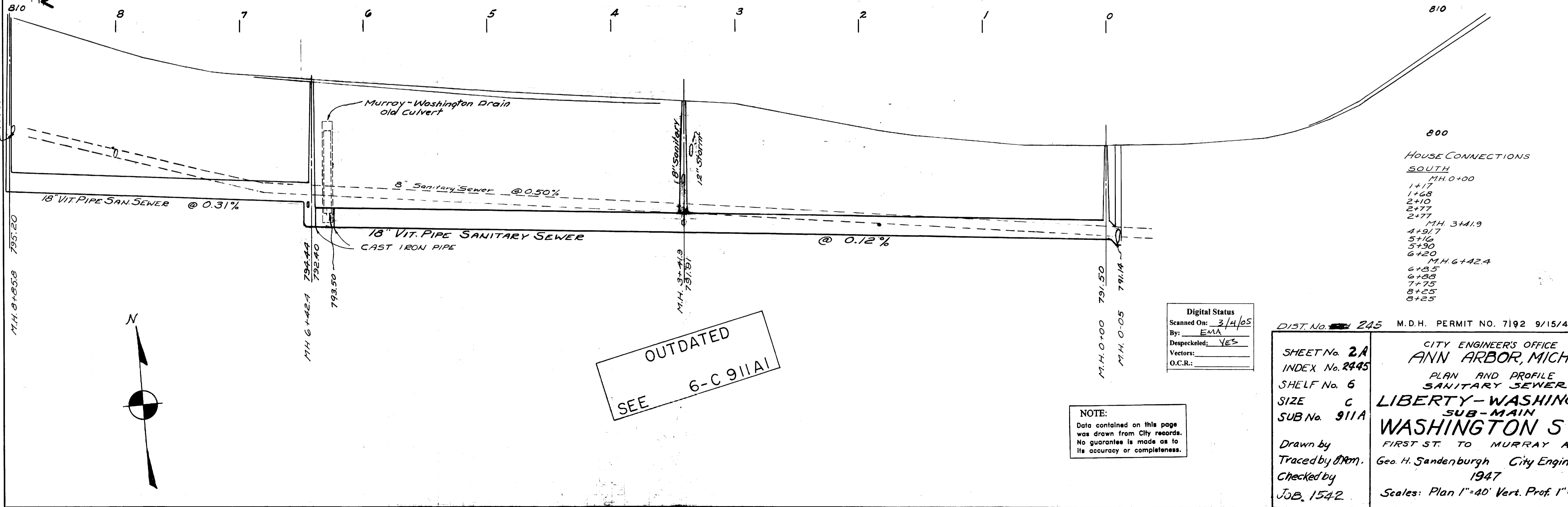
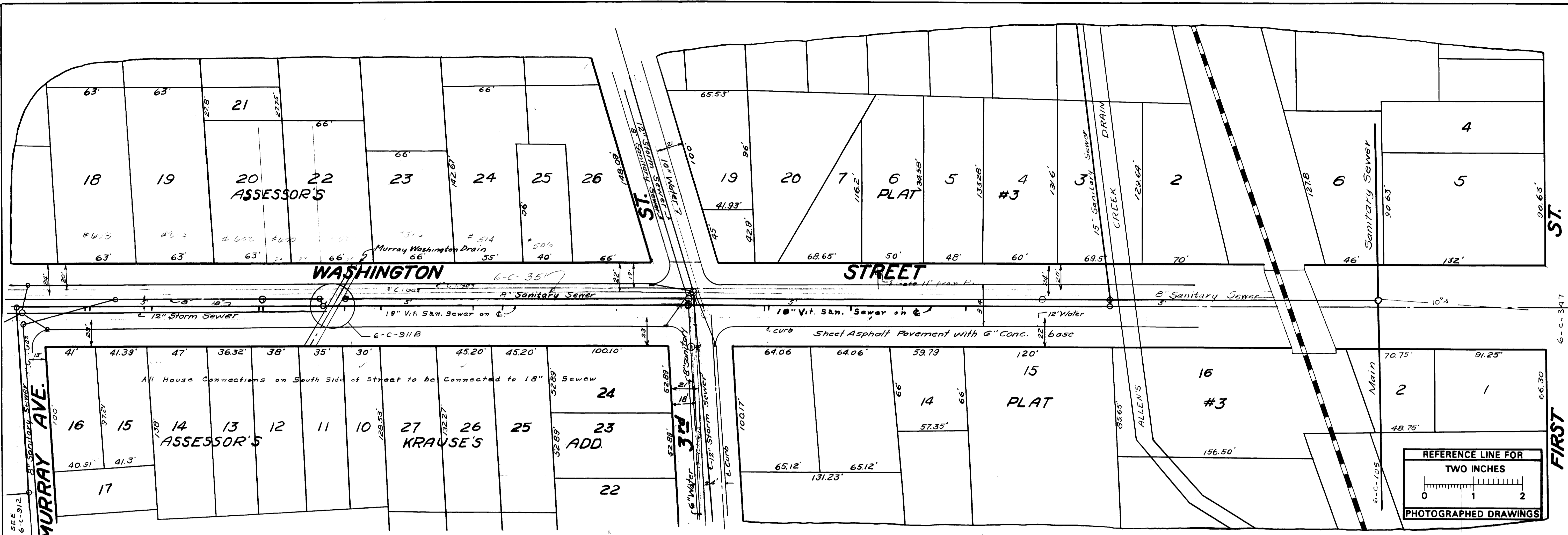
[ABOVE SECTIONS ARE NOT TO SCALE]



SEE 6C 351 FOR ORIGINAL HOUSE CONNECTIONS

AS BUILT
G-C-911C

LIBERTY - WASHINGTON
 SANITARY RELIEF



OUTDATED
 SEE 6-C 911A1

Digital Status
 Scanned On: 3/4/05
 By: EMA
 Despeckled: YES
 Vectors:
 O.C.R.:

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- 800
- HOUSE CONNECTIONS
- SOUTH**
- 1+17 M.H. 0+00
 - 1+68
 - 2+10
 - 2+77
 - 2+77 M.H. 3+41.9
 - 4+91.7
 - 5+16
 - 5+90
 - 6+20
 - 6+20 M.H. 6+42.4
 - 6+25
 - 6+25
 - 7+75
 - 8+25
 - 8+25

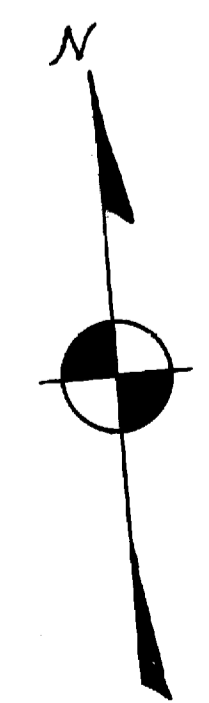
DIST. No. 245 M.D.H. PERMIT NO. 7192 9/15/48

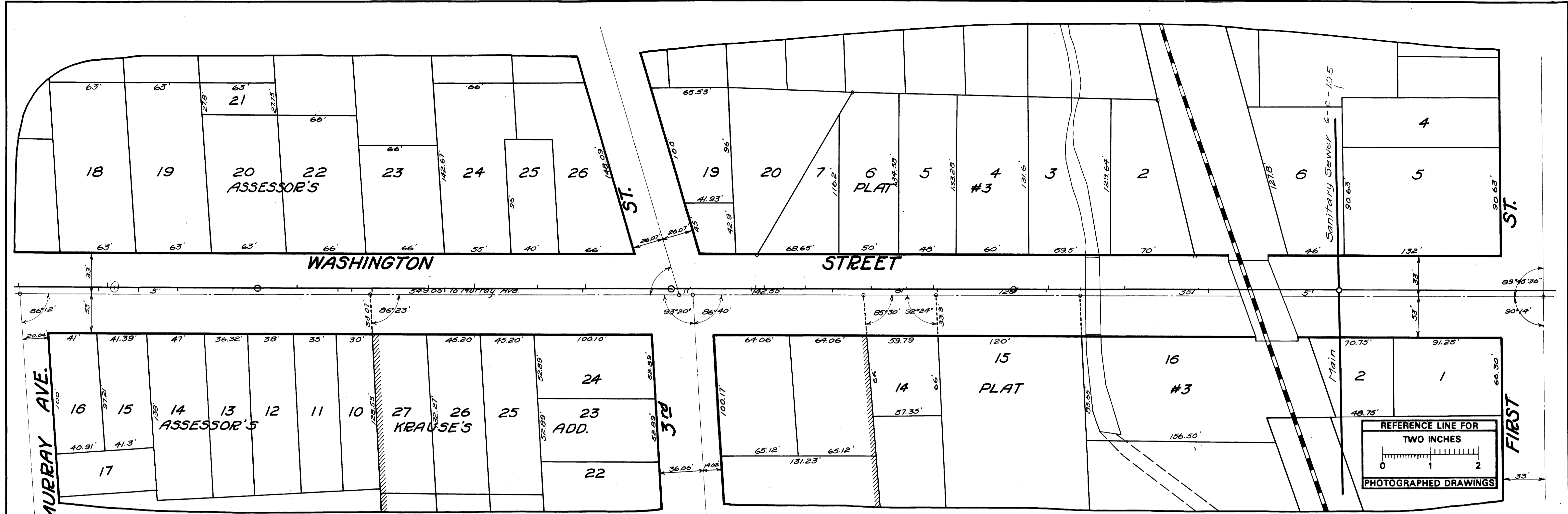
SHEET No. 2A
INDEX No. 2445
SHELF No. 6
SIZE C
SUB No. 911A

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
SANITARY SEWER
LIBERTY-WASHINGTON
SUB-MAIN
WASHINGTON ST.
FIRST ST. TO MURRAY AVE.

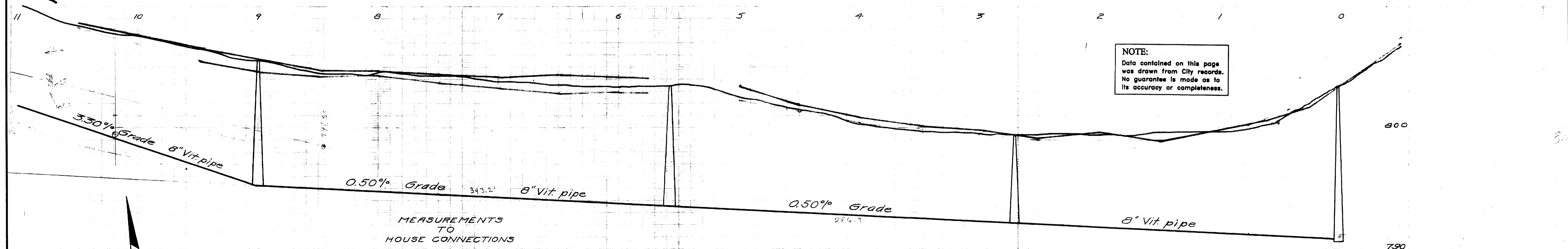
Drawn by
 Traced by D.M.
 Checked by
 JOB. 1542

Geo. H. Sandenburgh
 City Engineer
 1947
 Scales: Plan 1"=40' Vert. Prof. 1"=4'





NOTE:
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was drawn from City records.
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its accuracy or completeness.



MEASUREMENTS
TO
HOUSE CONNECTIONS

0 = 17. H. of Main Sewer	
NORTH	SOUTH
179.0	109.2
243.0	245.0
269.4 M.H.	
339.0	336.3
391.5	424.2
446.0	489.5
487.0	491.5
5563 M.H.	
630.0	632.2
670.6	748.7
723.0	808.4
762.7	825.5
871.8	857.6
899.5 M.H.	
1030.8	925.5
1103.2	971.0
1146.1	1004.2
1227.4	1037.0
	1128.3
	1164.9
1229.4 M.H.	

OUTDATED
SEE 6-C 911C

Digital Status
Scanned On: 3/9/05
By: JSM
Despeckled:
Vectors:
O.C.R.:

SHEET No. 323
INDEX No. 966
SHELF No. 6
SIZE C
SUB No. 351
Drawn by
Traced by Feiner
Checked by J

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
WASHINGTON ST.
FIRST ST. TO MURRAY AVE
Manley Osgood, City Engineer.
1917
Scales-Plan 1"=40' Profile-Hori-40'Vert-4'