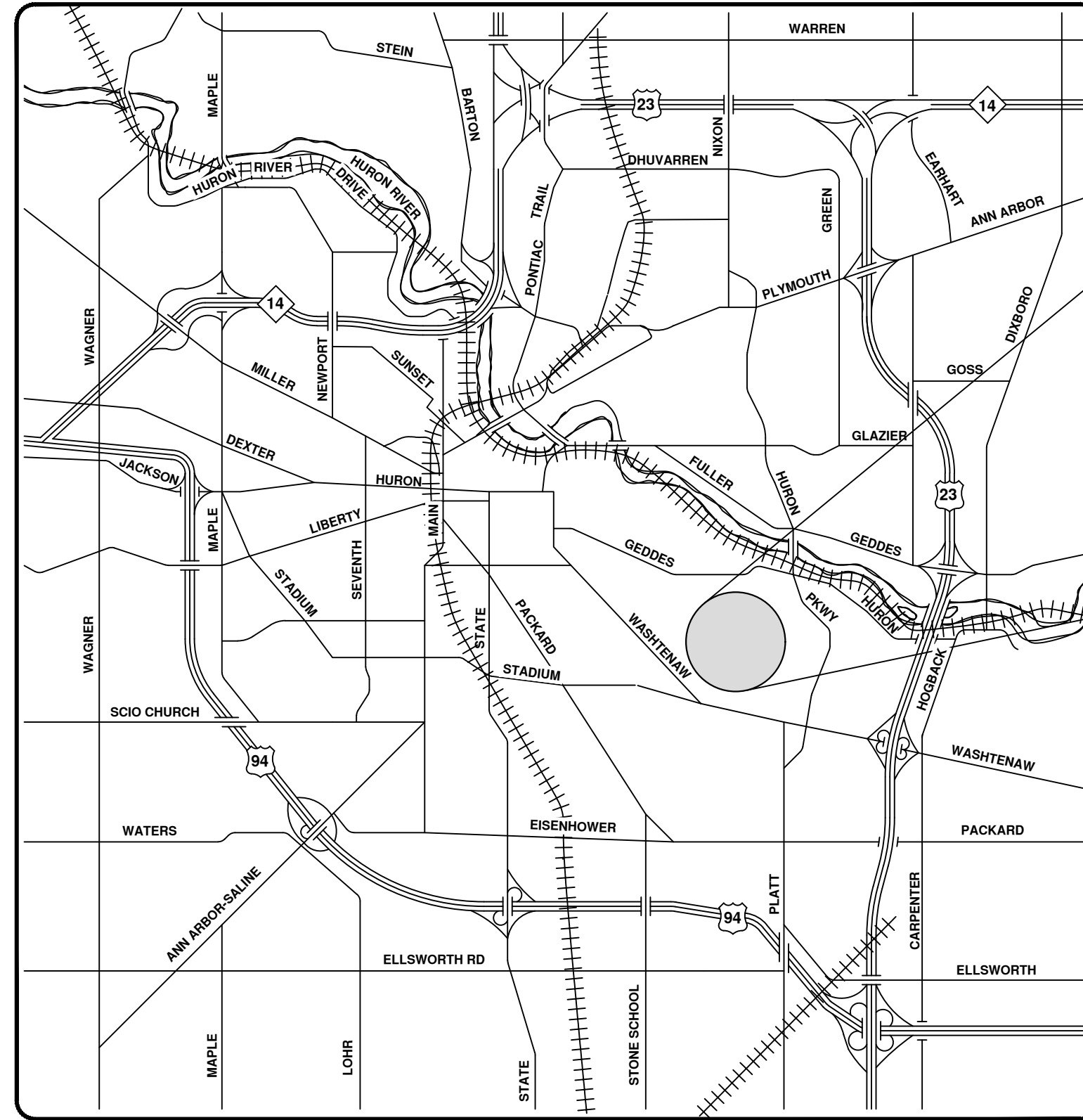
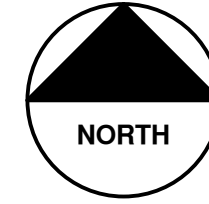


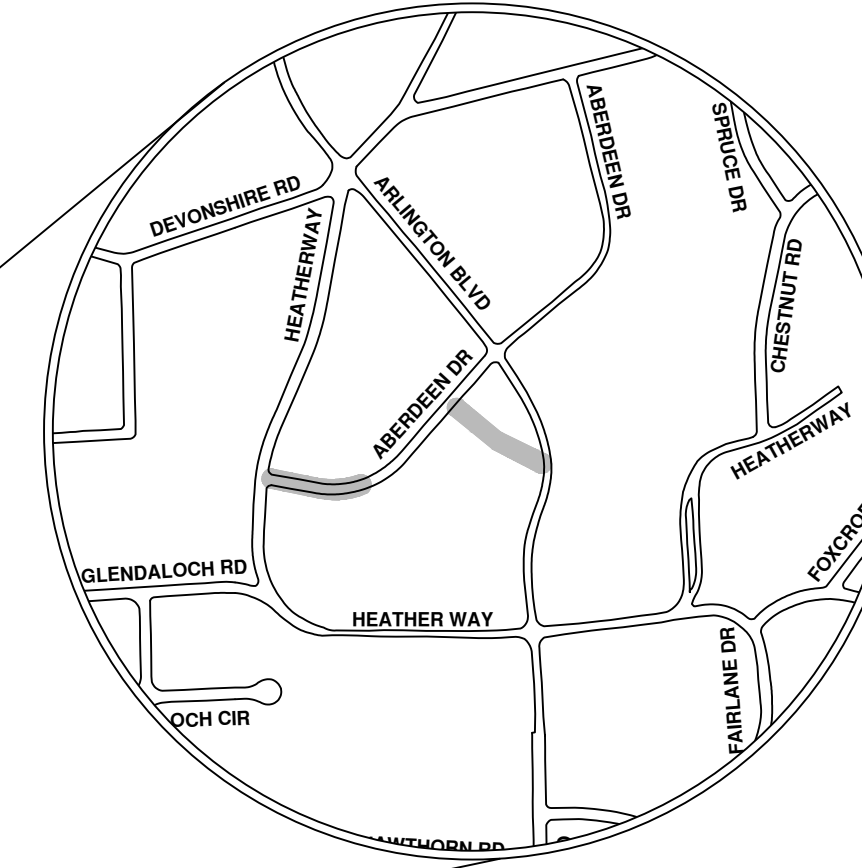


2023 SEWER LINING PROJECT

ABERDEEN DR



VICINITY MAP



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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

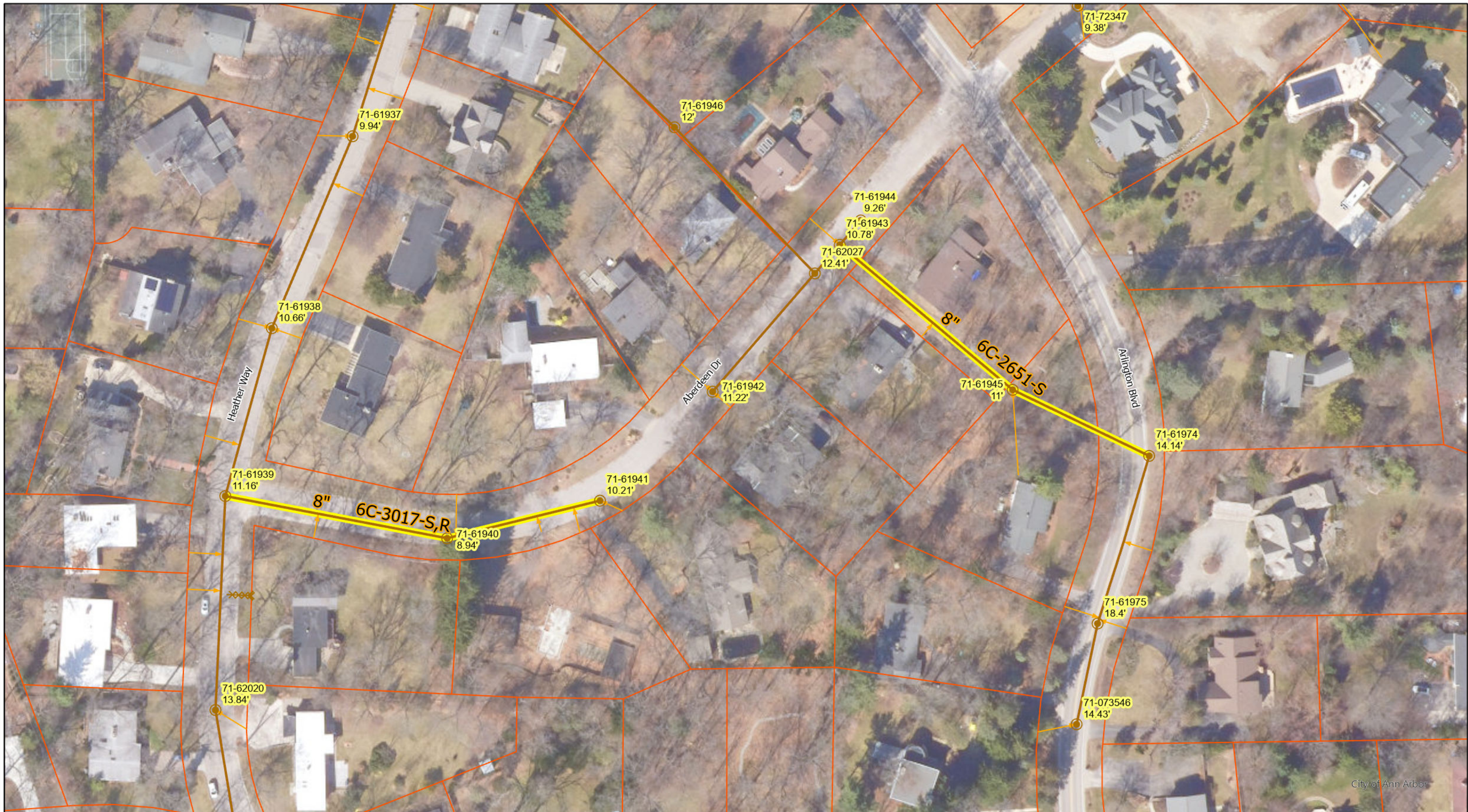


REV.	DESCRIPTION	DATE	BY	CHECKED
00	BID SET	8/4/23	ARG	DRAWN
			IK	CHECKED

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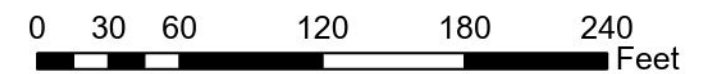


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
 SCALE
 DRAWING No. 2023011-2
 SHEET No. 2 OF 119
 © 2023 SEWER LINING PROJECT; BID No. RFP 23-41; 2023011



- Manhole
- Sanitary Main
- Proposed Lining
- Sanitary Lateral, Plugged
- Sanitary Lateral

Aberdeen Dr



71-XXXXX (Manhole ID)

X.XX' (Manhole Depth)

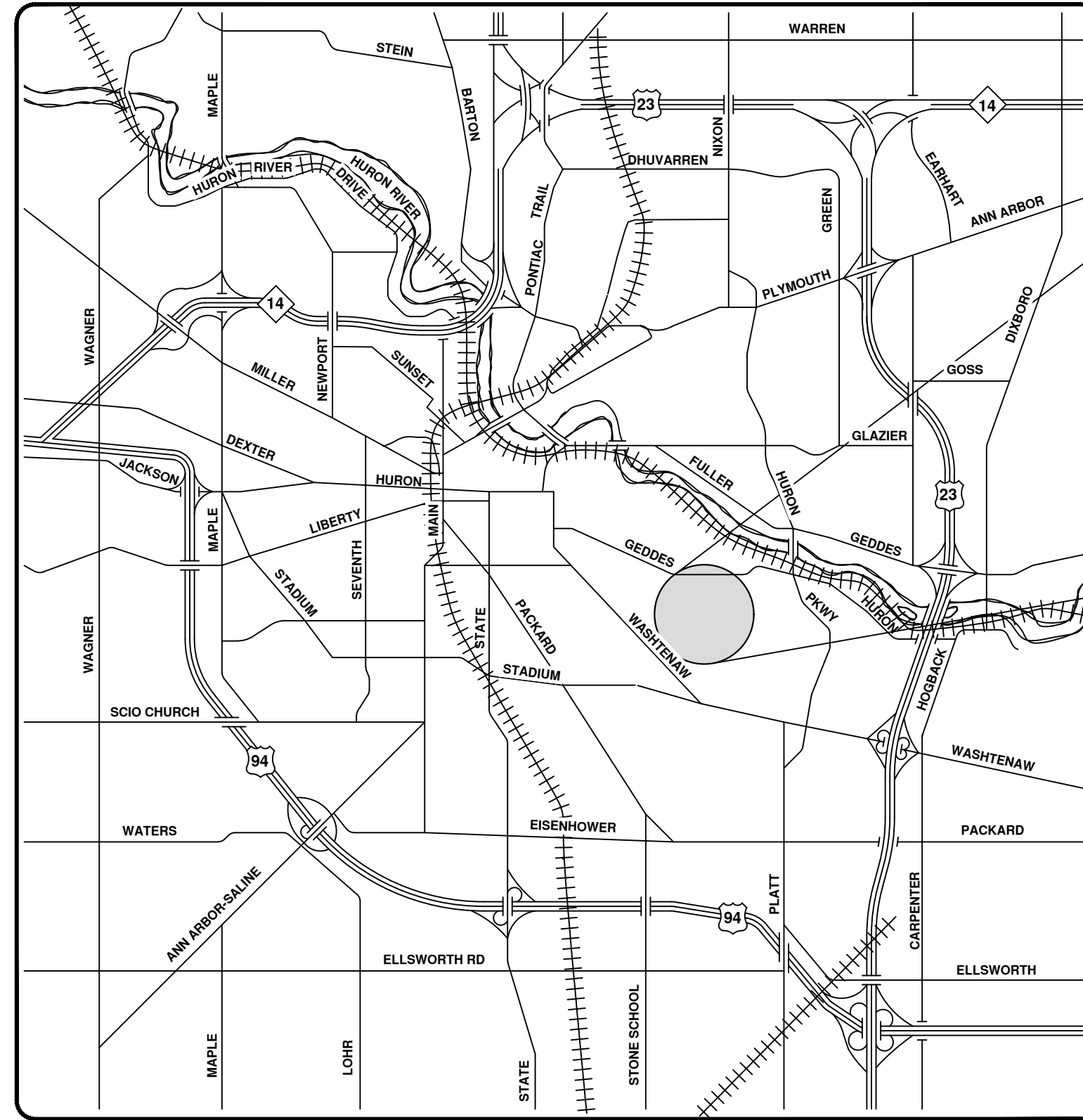
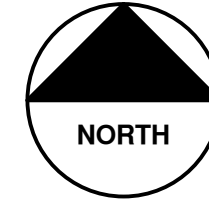
For terms and conditions please visit www.a2gov.org/terms



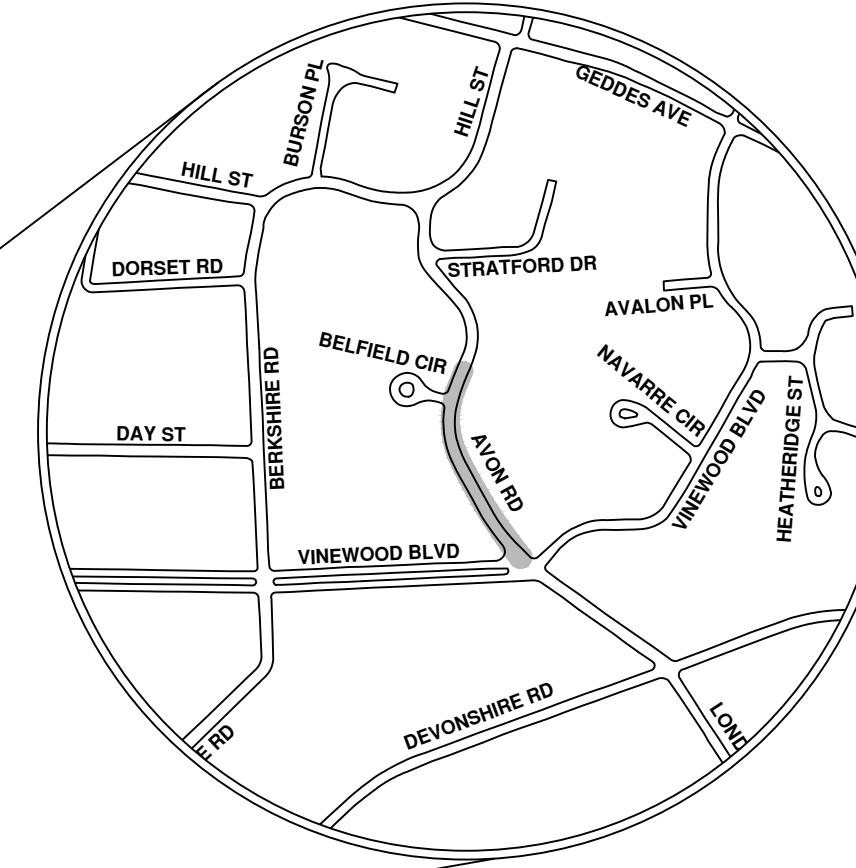


2023 SEWER LINING PROJECT

AVON RD



VICINITY MAP



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 ANN ARBOR, MICHIGAN 48107-8647
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	8/4/23	ARG	IK

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 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. 2023011-5



Avon Rd

-  Manhole
-  Sanitary Main
-  Proposed Lining
-  Sanitary Lateral, Plugged
-  Sanitary Lateral

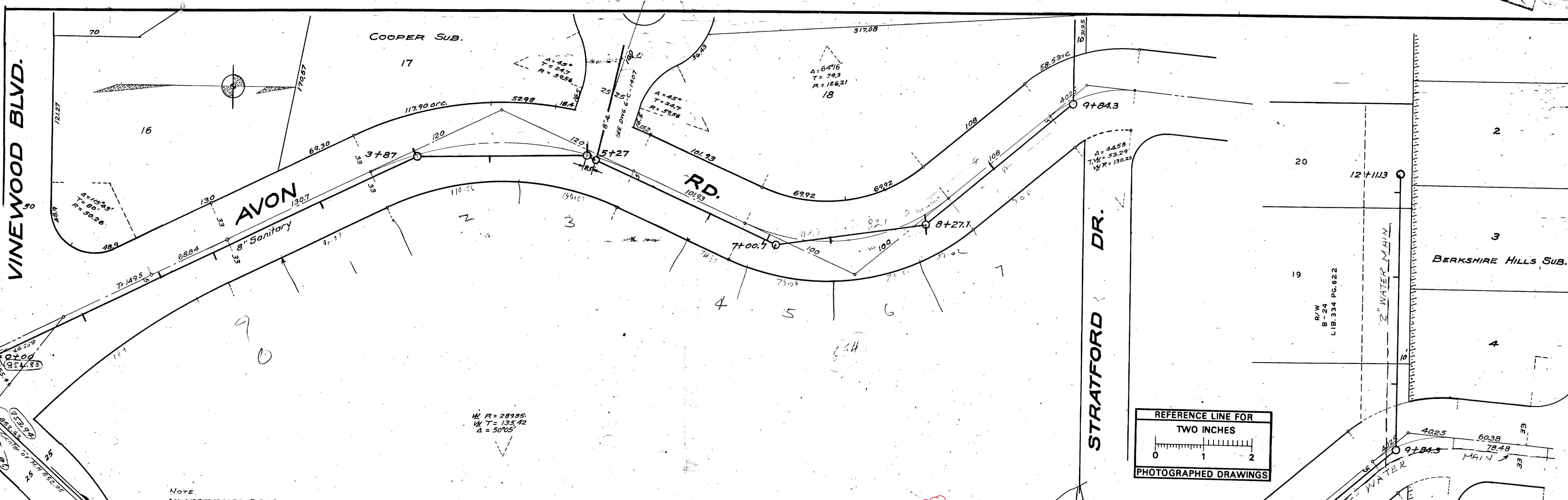
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X.XX' (Manhole Depth)

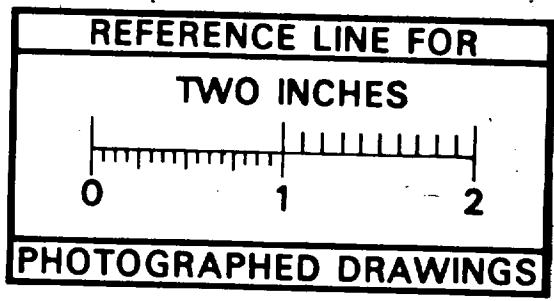


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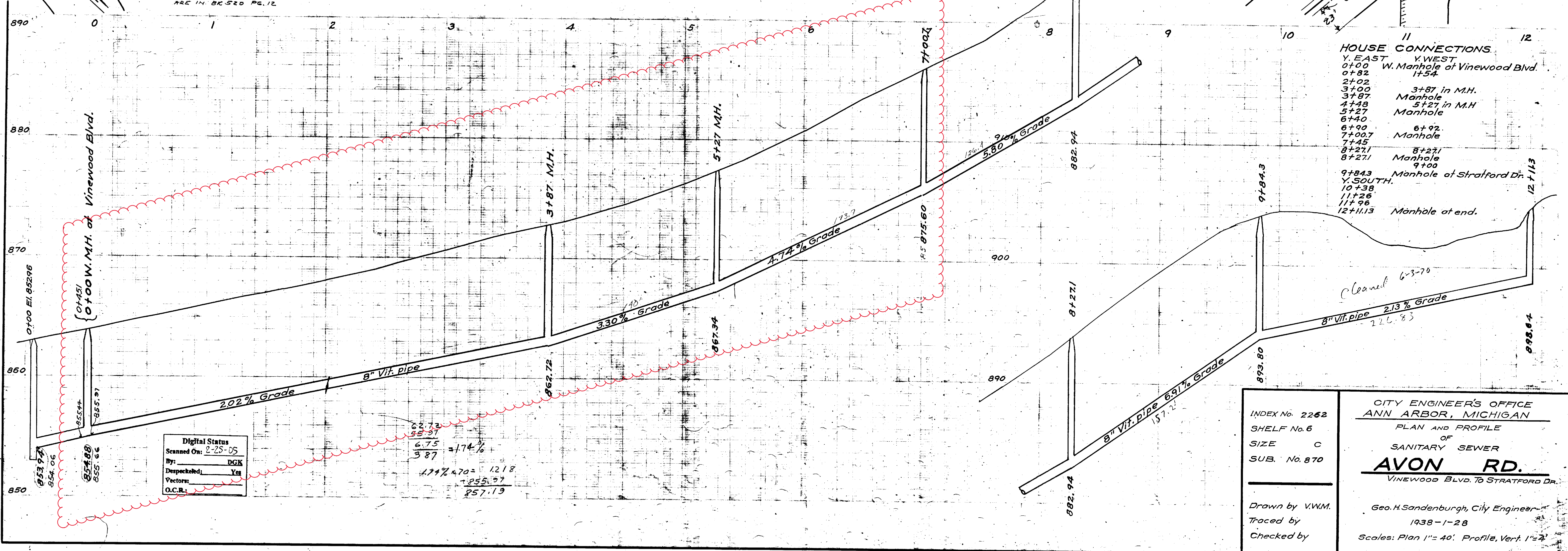


NOTE
ALL NOT CIRCLED ELEVATIONS
ARE IN BK 520 PG. 12



HOUSE CONNECTIONS

Y. EAST	Y. WEST
0+00	W. Manhole of Vinewood Blvd.
0+82	1+54
2+02	3+87 in M.H.
3+00	Manhole
3+87	5+27 in M.H.
4+48	Manhole
5+27	Manhole
6+40	6+92
6+92	Manhole
7+00.7	Manhole
7+48	8+27
8+27	Manhole
8+27	Manhole of Stratford Dr.
9+84.3	10+38
10+38	11+28
11+28	11+96
11+96	Manhole at end.
12+11.3	



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

62.73
55.37
6.75
3.87
1.74%
1.74% x 70 = 1.218
7.855 x 7 = 54.985
257.13

INDEX No. 2262
SHELF No. 6
SIZE C
SUB. No. 870

CITY ENGINEER'S OFFICE
ANN ARBOR, MICHIGAN
PLAN AND PROFILE
OF
SANITARY SEWER
AVON RD.
VINEWOOD BLVD. TO STRATFORD DR.

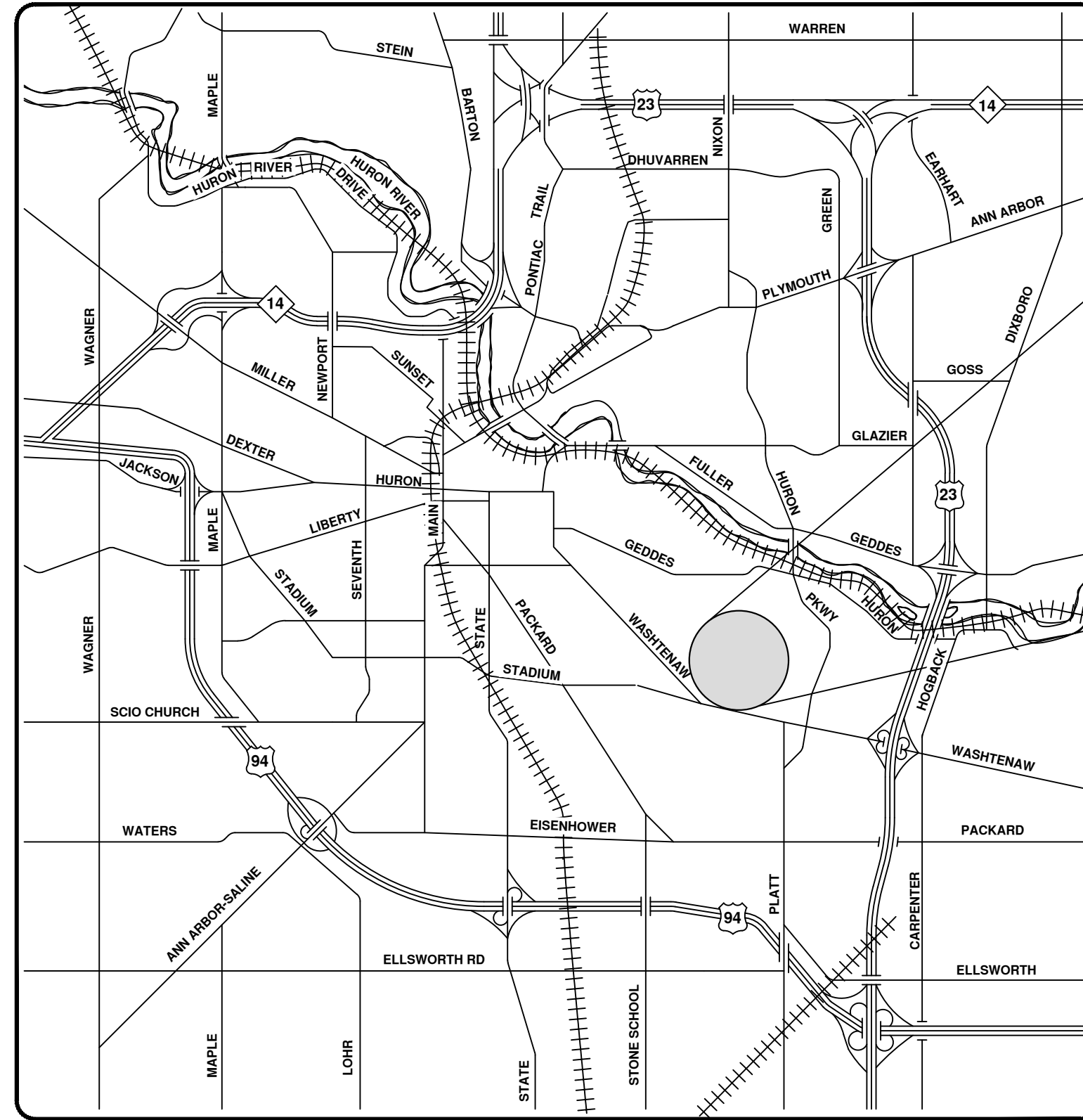
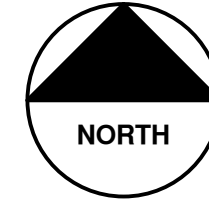
Drawn by V.W.M.
Traced by
Checked by

Geo. H. Sandenburgh, City Engineer
1938-1-28
Scales: Plan 1" = 40'; Profile, Vert. 1" = 2'

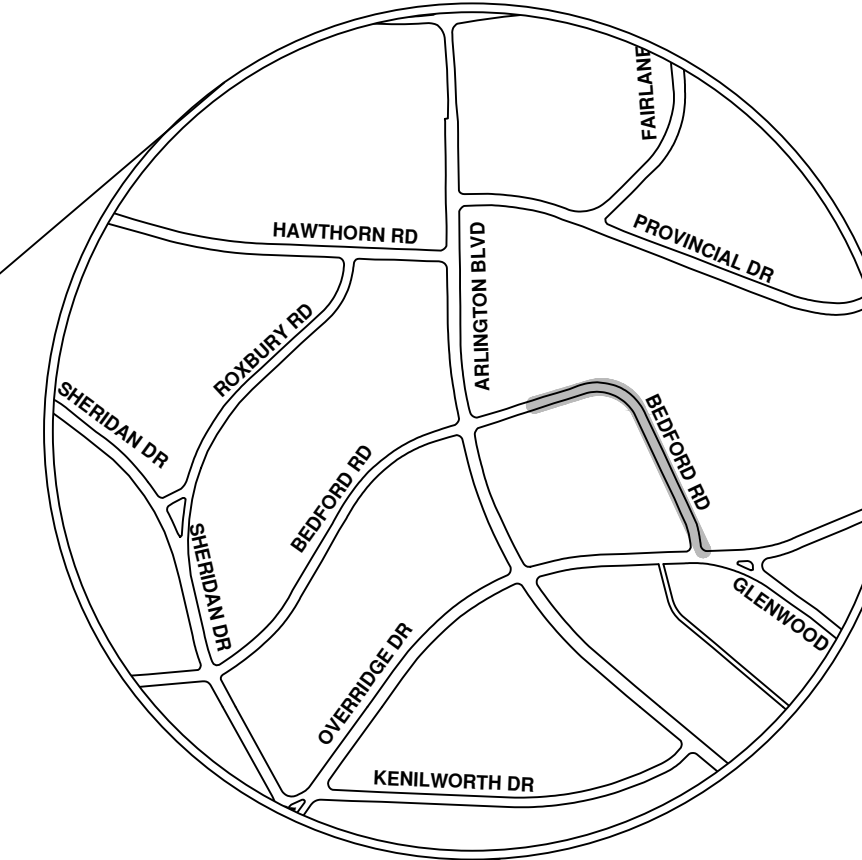


2023 SEWER LINING PROJECT

BEDFORD RD



VICINITY MAP



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	8/4/23	ARG	IK

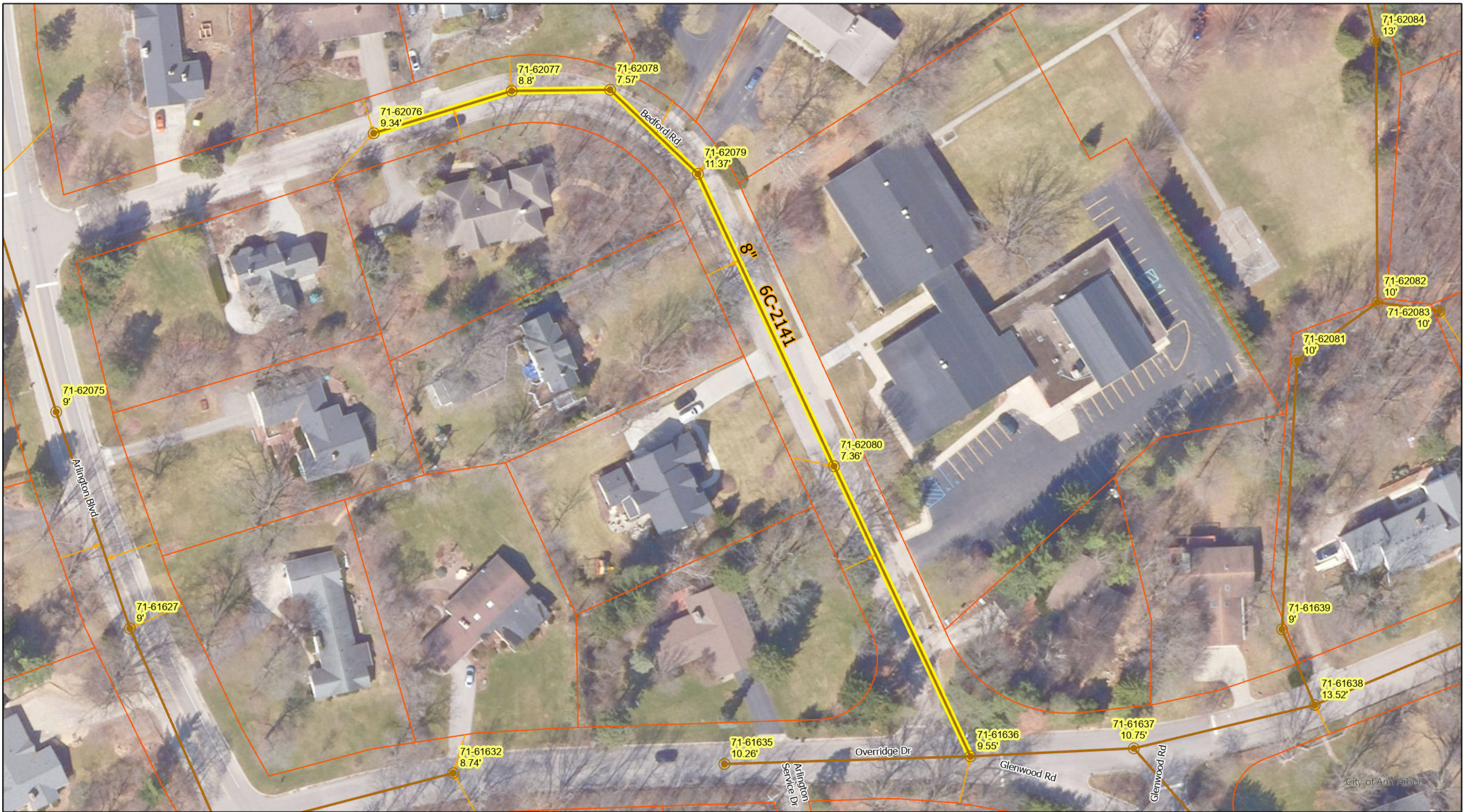
CITY OF ANN ARBOR
 PUBLIC SERVICES
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 ANN ARBOR, MI 48107-8647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

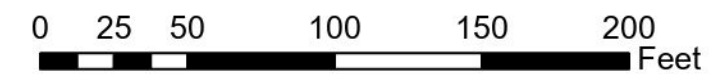
SCALE
 DRAWING No.
 2023011-8

SHEET No.
 8 OF 119



- Manhole
- Sanitary Main
- Sanitary Lateral
- Proposed Lining

Bedford Rd



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

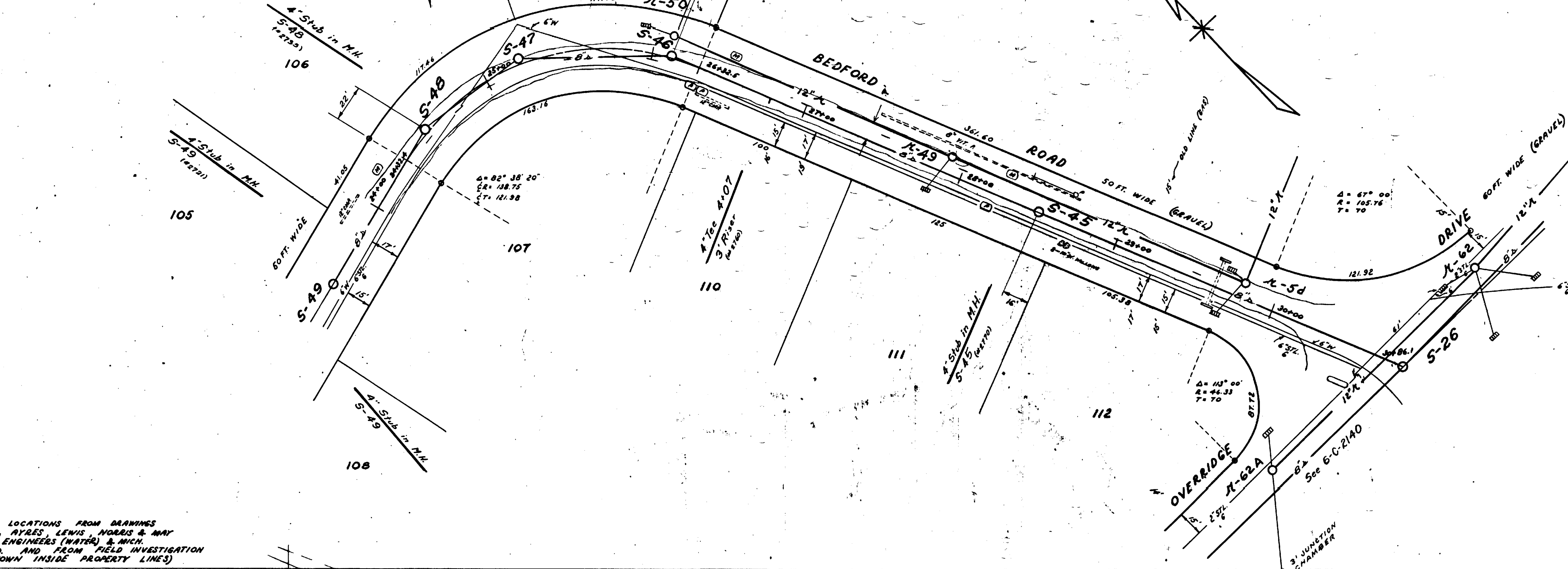
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REFERENCES
 Do Not Use
 BENCH MARKS - 71 - PROPERTY IRON SET COR. BEDFORD & ARLINGTON - ADJACENT
 72 - NAIL TOP OF LARGE STUMP (4 IN. ABOVE RD.) IN FRONT
 OF 1100 DURMINGER - 872.40
 U.S.C. & G.S. Tukey Point - 871.153

HUNTING VALLEY #1

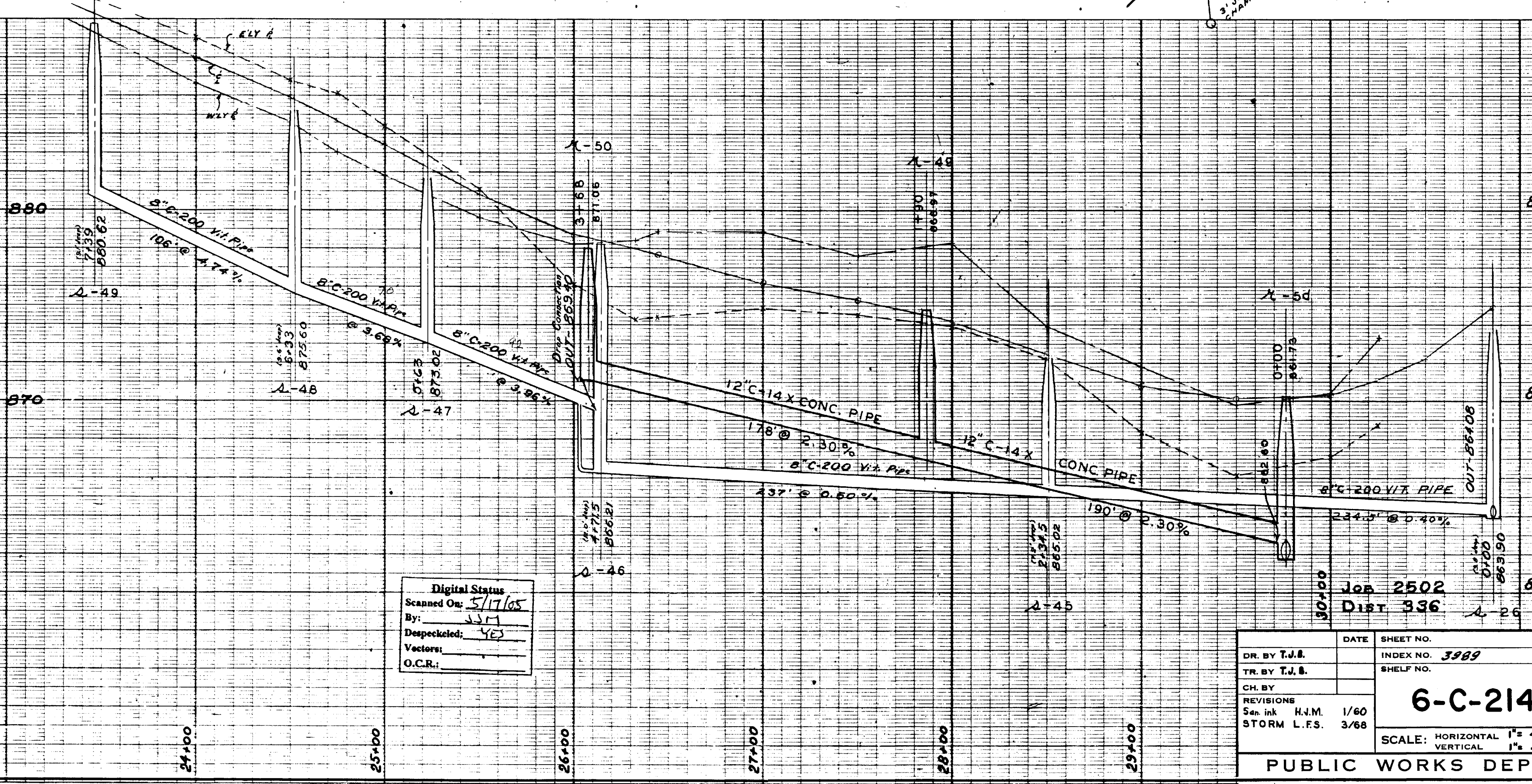
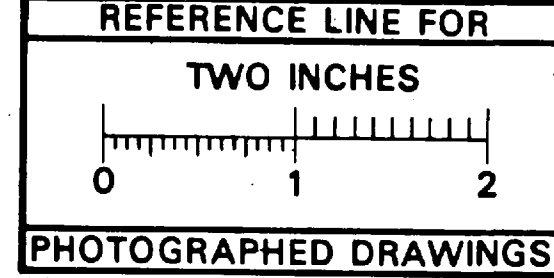
BOARD OF EDUCATION

TOP BASEMENT WALL 888.20



NOTE - UTILITY LINE LOCATIONS FROM DRAWINGS BY GAS CO., AYRES, LEWIS, NORRIS & MAY CONSULTING ENGINEERS (WATER) & MICH. BELL TEL. CO. AND FROM FIELD INVESTIGATION (FIGURES SHOWN INSIDE PROPERTY LINES)

- LEGEND**
- EXISTING SANITARY SEWER
 - PROPOSED SANITARY SEWER
 - EXISTING STORM SEWER
 - PROPOSED STORM SEWER
 - GAS LINE (STEEL)
 - WATER LINE
 - CENTER RIGHT OF WAY
 - EDGE OF PAVEMENT & CROWN
 - CONC. CURB & MATERIAL
 - CULVERT (1/4" DIA. MIN.)
 - TEL. & POWER POLES
 - MAIL (2 NO.) & TRUNK BUSES
 - STREET SIGN
 - TRAFFIC SIGN
 - HYDRANT
 - LAMP POST
 - TREE (3/4" DIA. LOCATION FROM 2" DRAWING)



Digital Status
 Scanned On: 5/17/05
 By: JSM
 Despeckled: YES
 Vectors:
 O.C.R.:

Job 2502 Dist. 336
 Job 3348 R Dist. 50
 M.C.H. PERMIT NO. 18069 4/27/59

DR. BY T.J.B.	DATE	SHEET NO.
TR. BY T.J.B.		INDEX NO. 3989
CH. BY		SHELF NO.
REVISIONS		
Scale: HORIZ. 1" = 40'	6-C-2141	
VERT. 1" = 4'		

**SANITARY SEWER
 STORM SEWER**

BEDFORD ROAD
 FROM OVERBRIDGE DRIVE TO APPROXIMATELY 700 FT. N.W.LY.

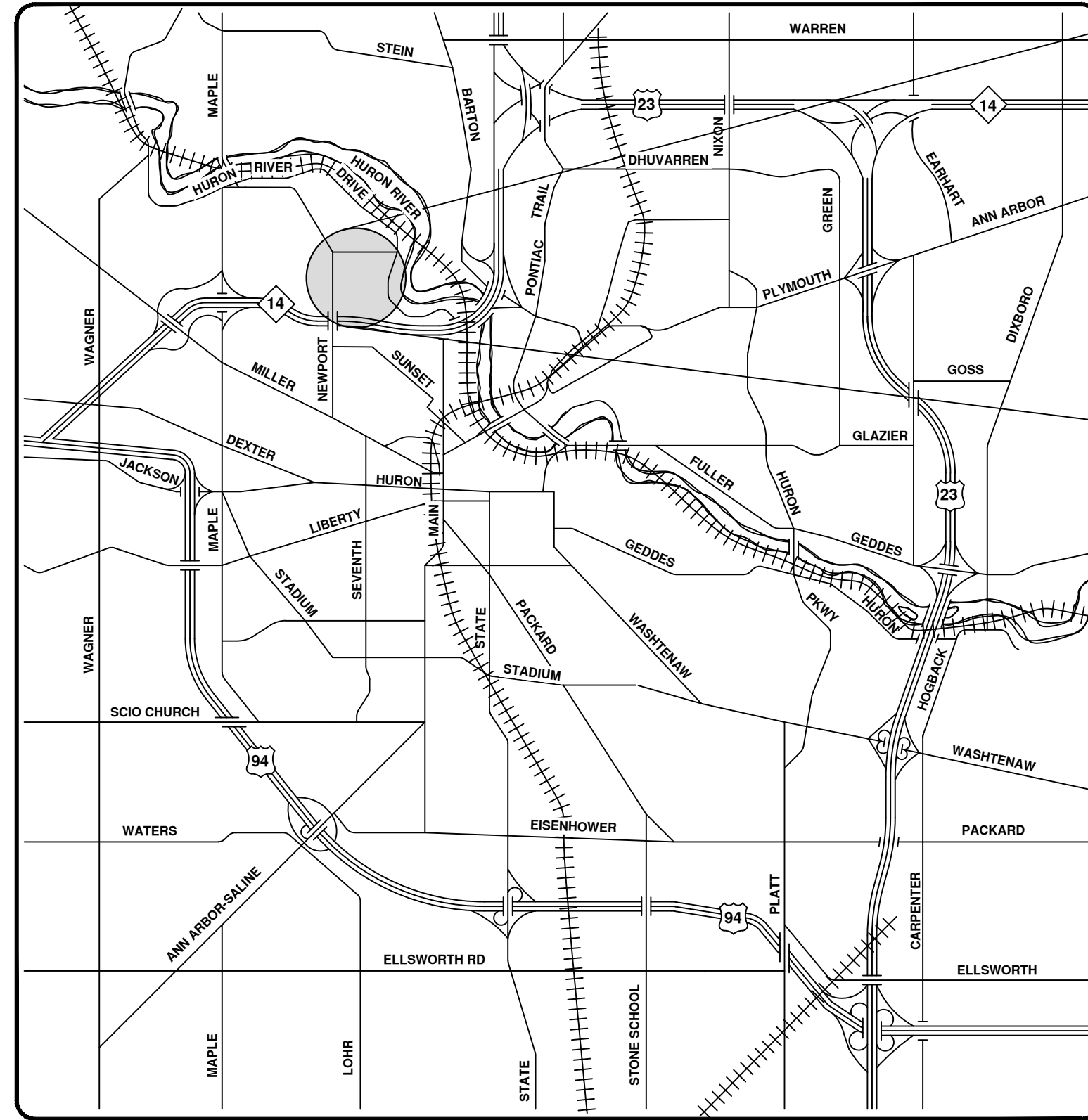
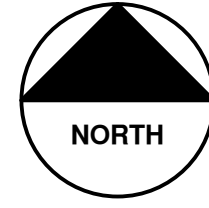
GEORGE H. SANDENBURGH SUPERINTENDENT OF PUBLIC WORKS
 PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN

APPROVED BY:-

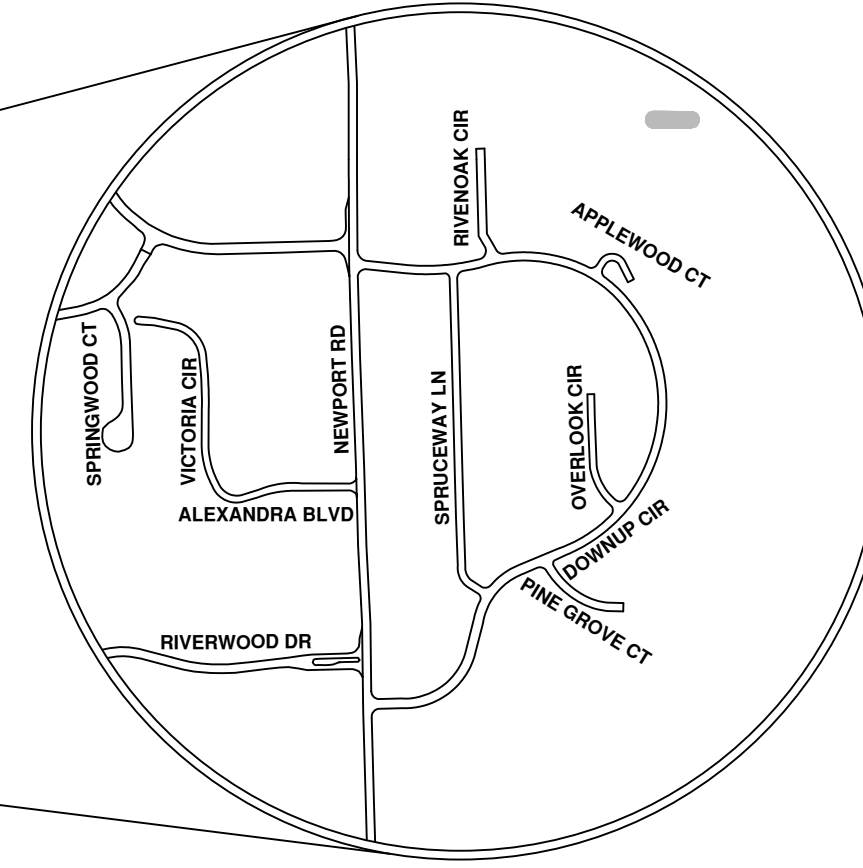


2023 SEWER LINING PROJECT

BIRD HILLS NATURE AREA XLOT



VICINITY MAP



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

SCALE
 DRAWING No.
 2023011-11

SHEET No.

11 OF 119

REV.

DESCRIPTION

DATE

DRAWN

CHECKED





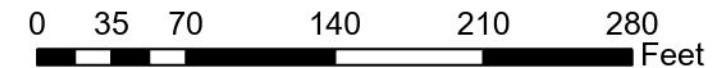
City of Ann Arbor

- Manhole
- SanitaryMain
- Proposed Lining

71-XXXXX (Manhole ID)

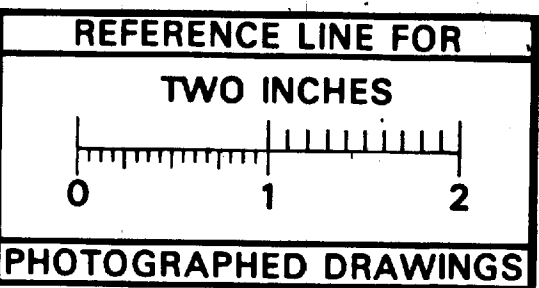
X.XX' (Manhole Depth)

Bird Hills Nature Area Xlot



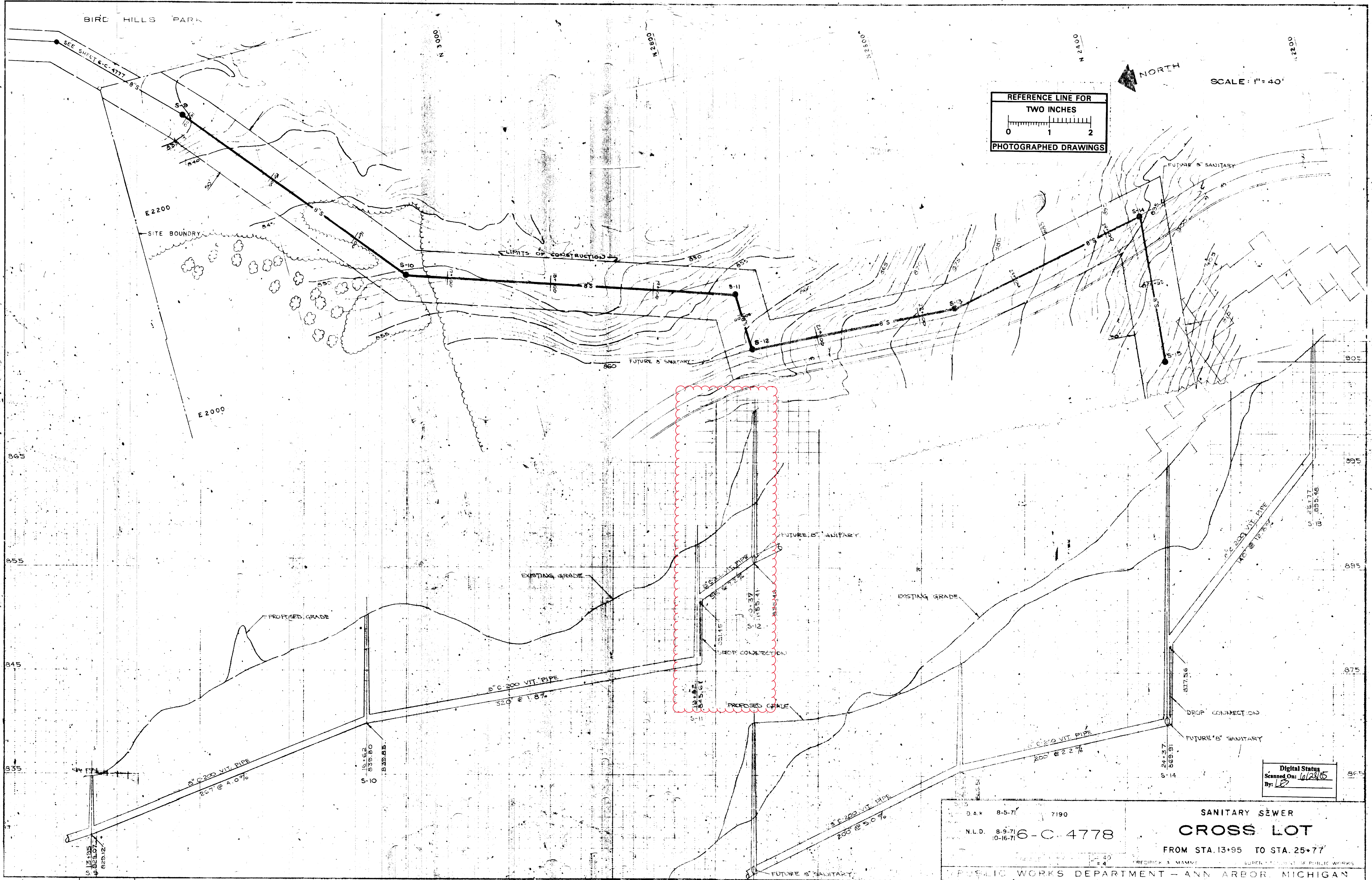
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BIRD HILLS PARK



SCALE: 1" = 40'

NORTH



Digital Status
Scanned On: 10/24/05
By: [Signature]

D.A.K. 8-5-71 7190
N.L.D. 8-9-71 10-16-71 6-C-4778
SANITARY SEWER
CROSS LOT
FROM STA. 13+95 TO STA. 25+77
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN
PREPARED BY DIETRICH ASSOCIATES
APPROVED BY Howard Z. Russell 10/27/71

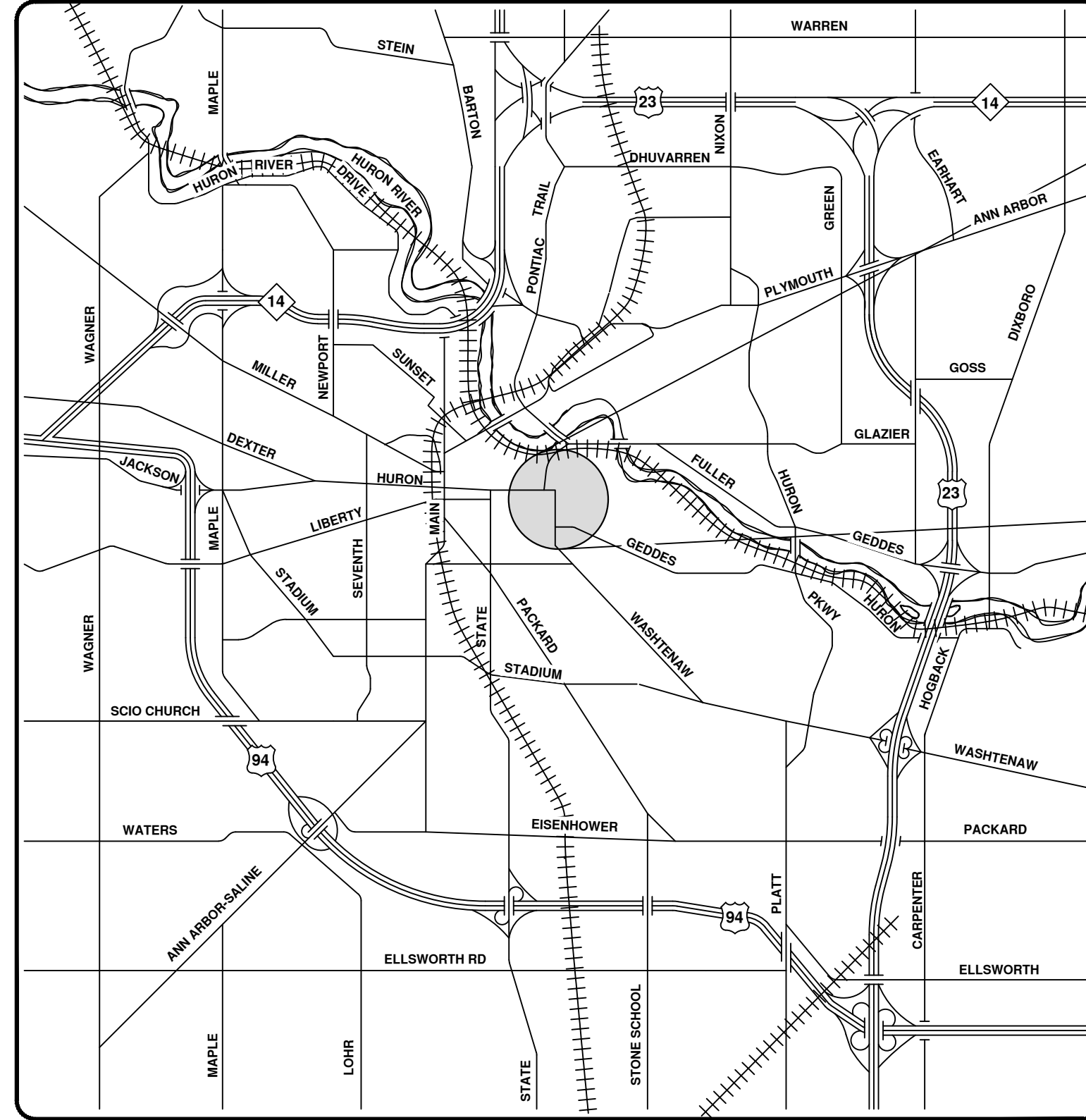
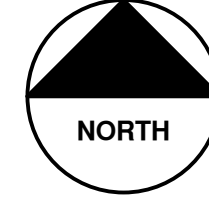
UNDERGROUND UTILITIES	PROFILES	EXISTING SANITARY	PROPOSED SANITARY	EXISTING STORM	PROPOSED STORM	EXISTING GAS	PROPOSED GAS	EXISTING WATER	PROPOSED WATER
○	—	○	○	○	○	○	○	○	○
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

REFERENCES
SERV. MARK. CITY NO. 84
M.D.P.H. PERMIT NO. 710684 11/5/71

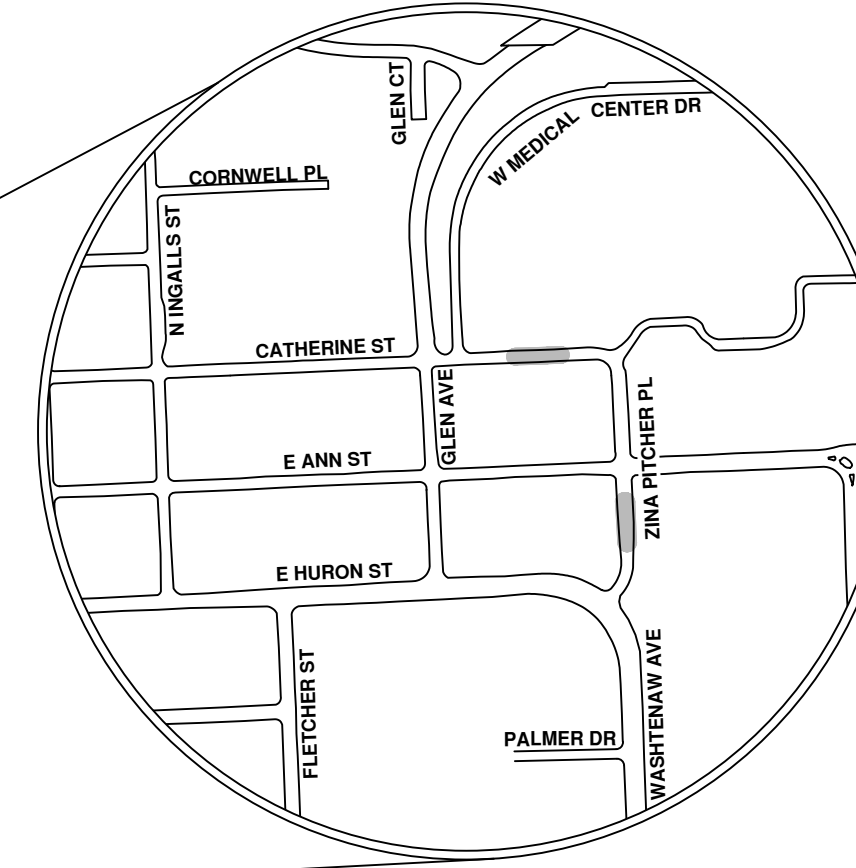


2023 SEWER LINING PROJECT

CATHERINE ST



VICINITY MAP



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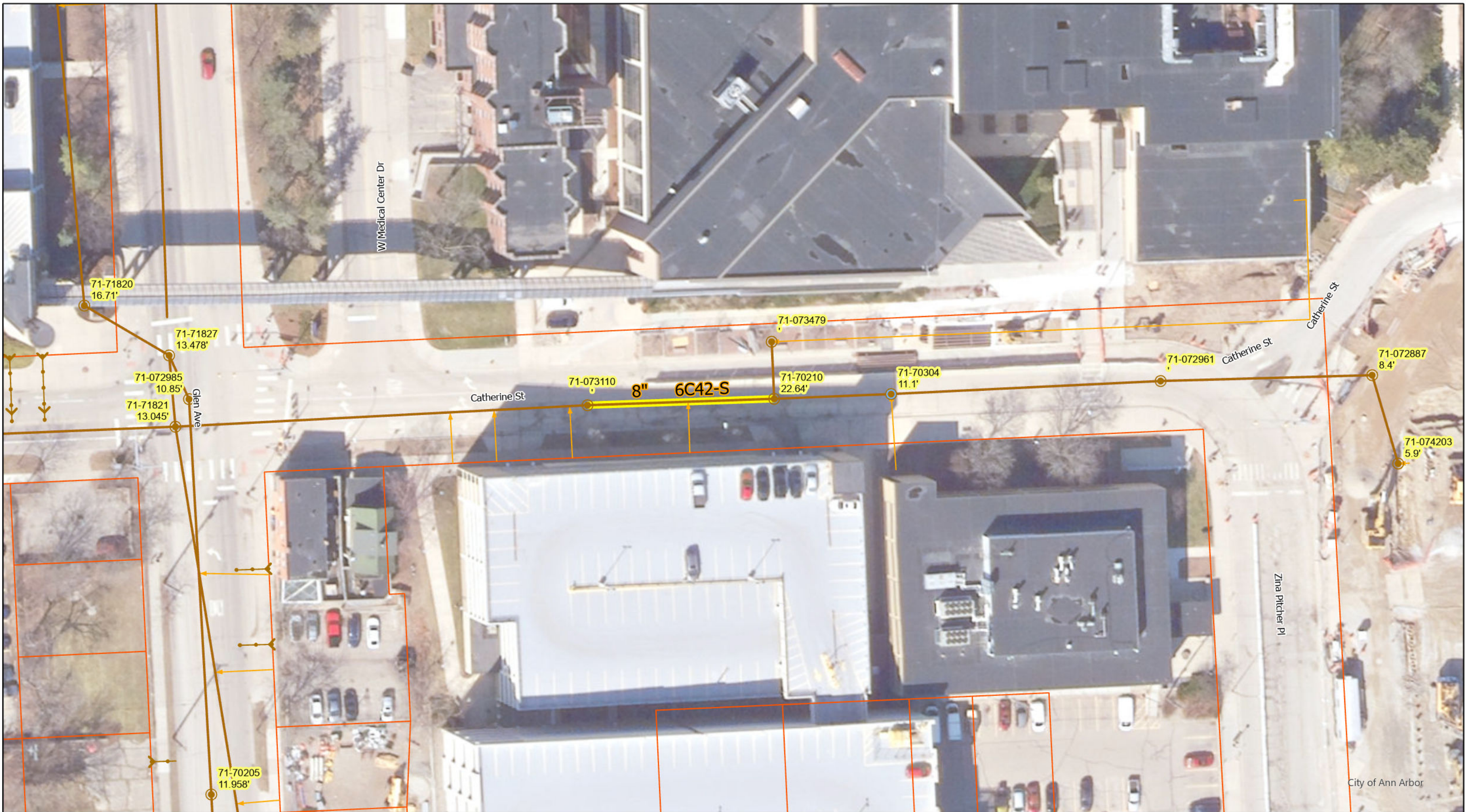


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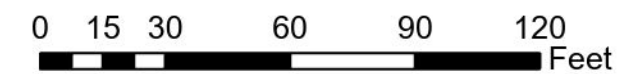
SHEET No.

14 OF 119



- Manhole, Flush Tank
- Manhole
- Sanitary Main
- Sanitary Lateral, Abandoned
- Sanitary Lateral

Catherine St



71-XXXXX (Manhole ID)

X.XX' (Manhole Depth)

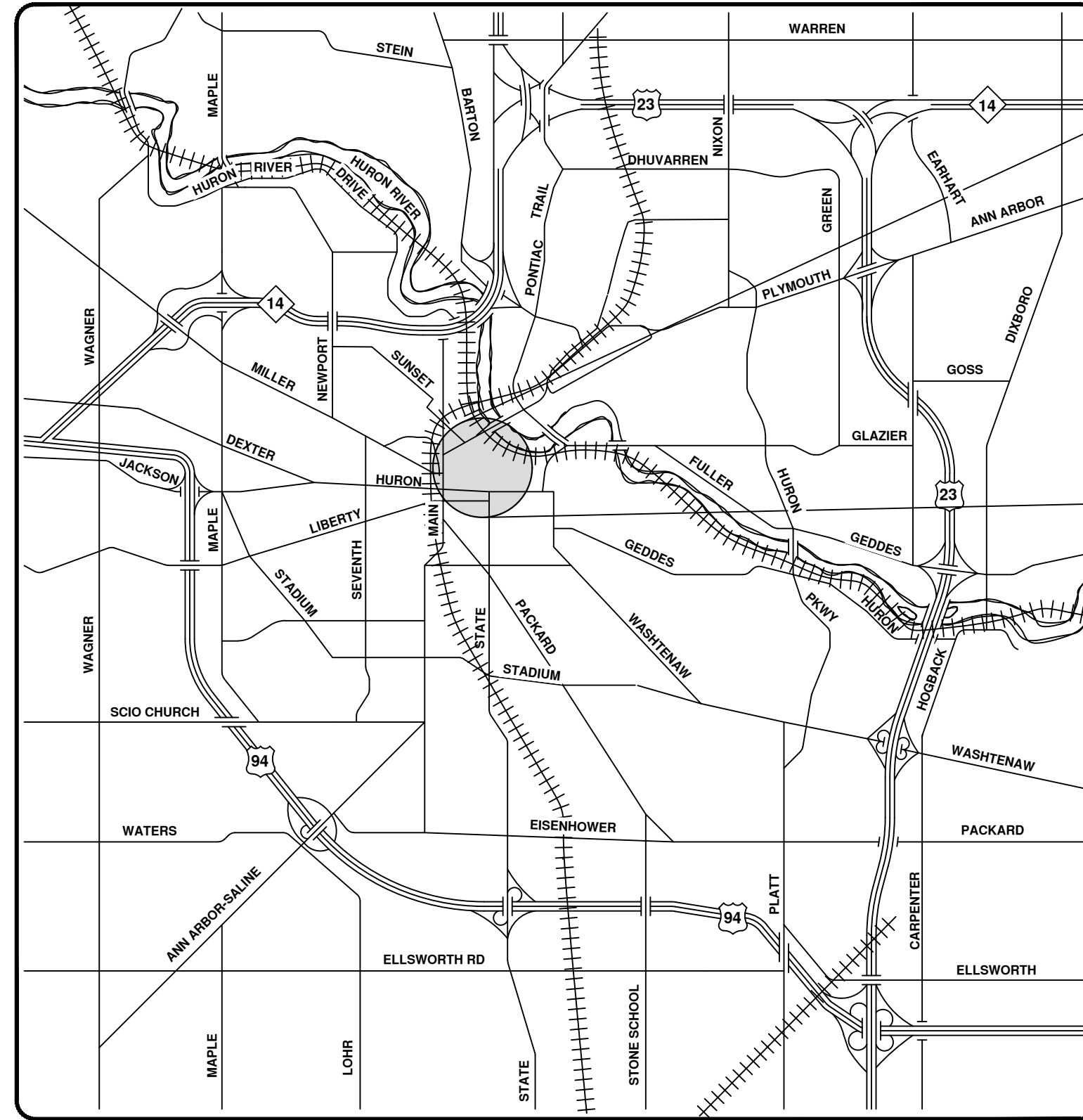
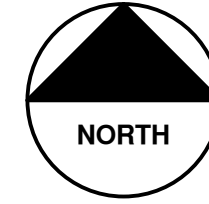
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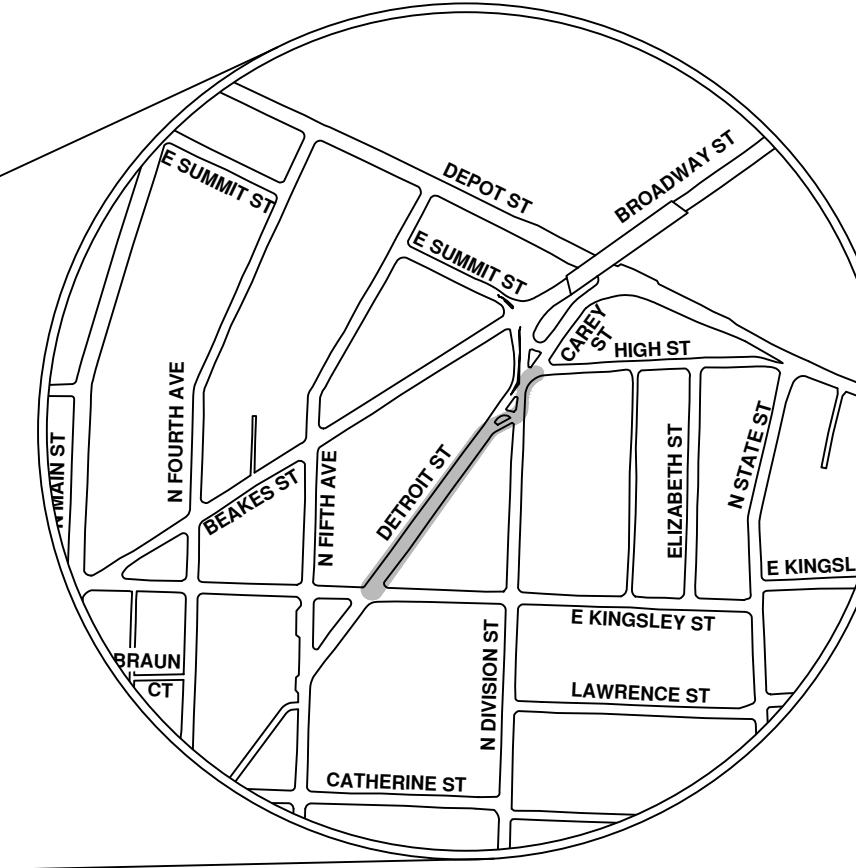


2023 SEWER LINING PROJECT

DETROIT ST



VICINITY MAP



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

SCALE
 DRAWING No.
 2023011-17

SHEET No.

17 OF 119

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	8/4/23	ARG	IK





Detroit St

- Manhole
- Sanitary Main
- Sanitary Lateral
- Sanitary Lateral, Plugged
- Sanitary Lateral, Abandoned
- Proposed Lining

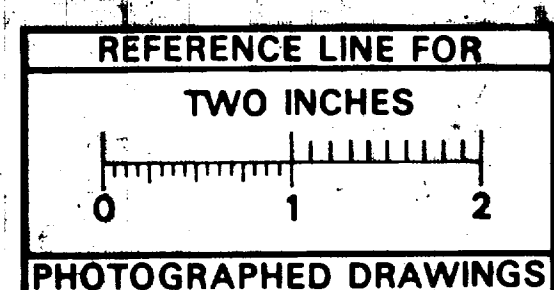
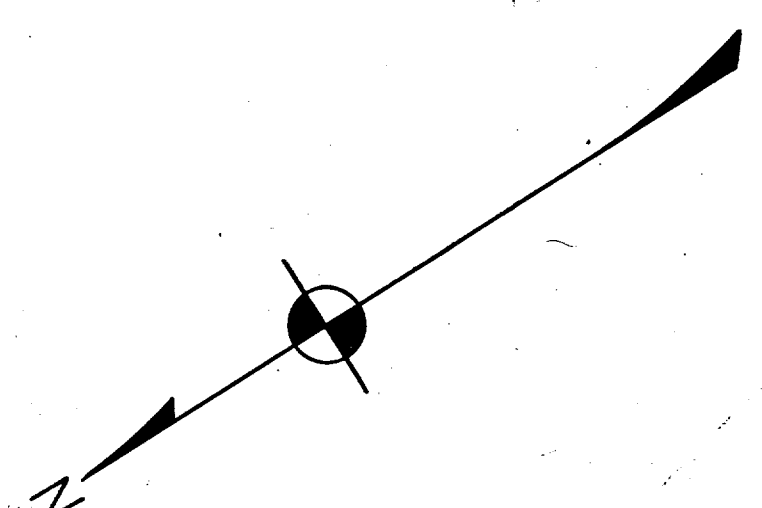
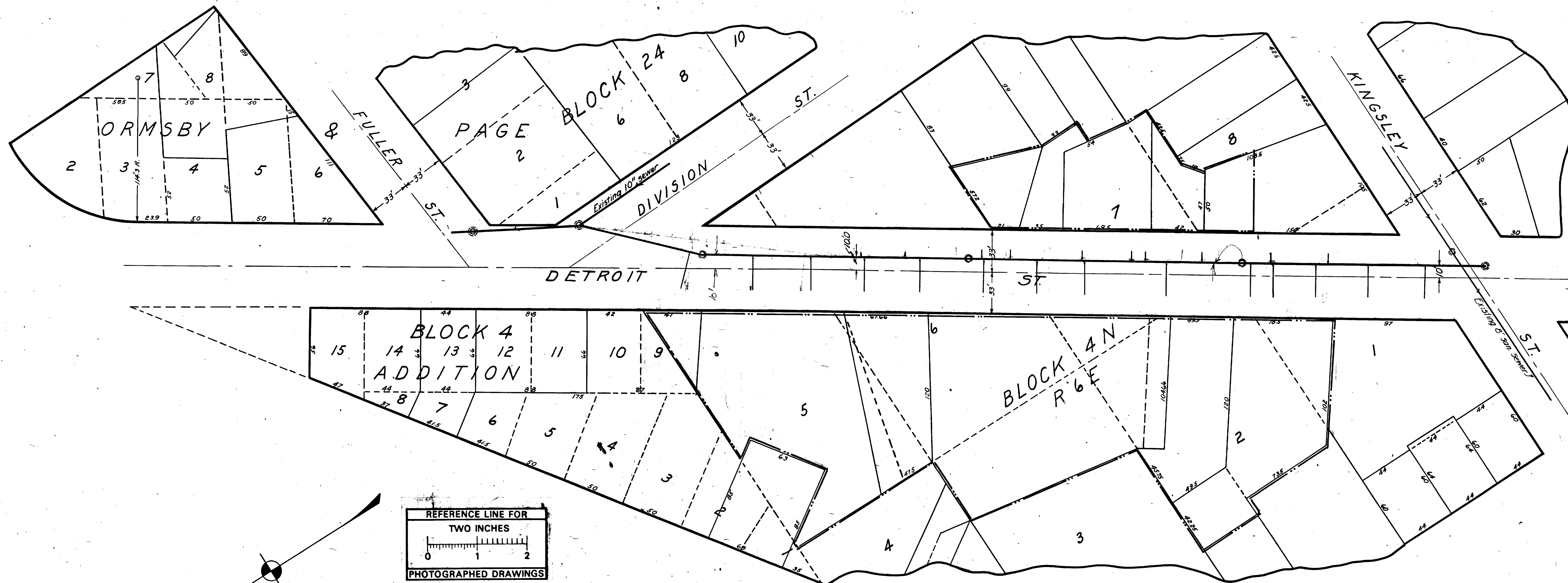
71-XXXX (Manhole ID)

X.XX' (Manhole Depth)



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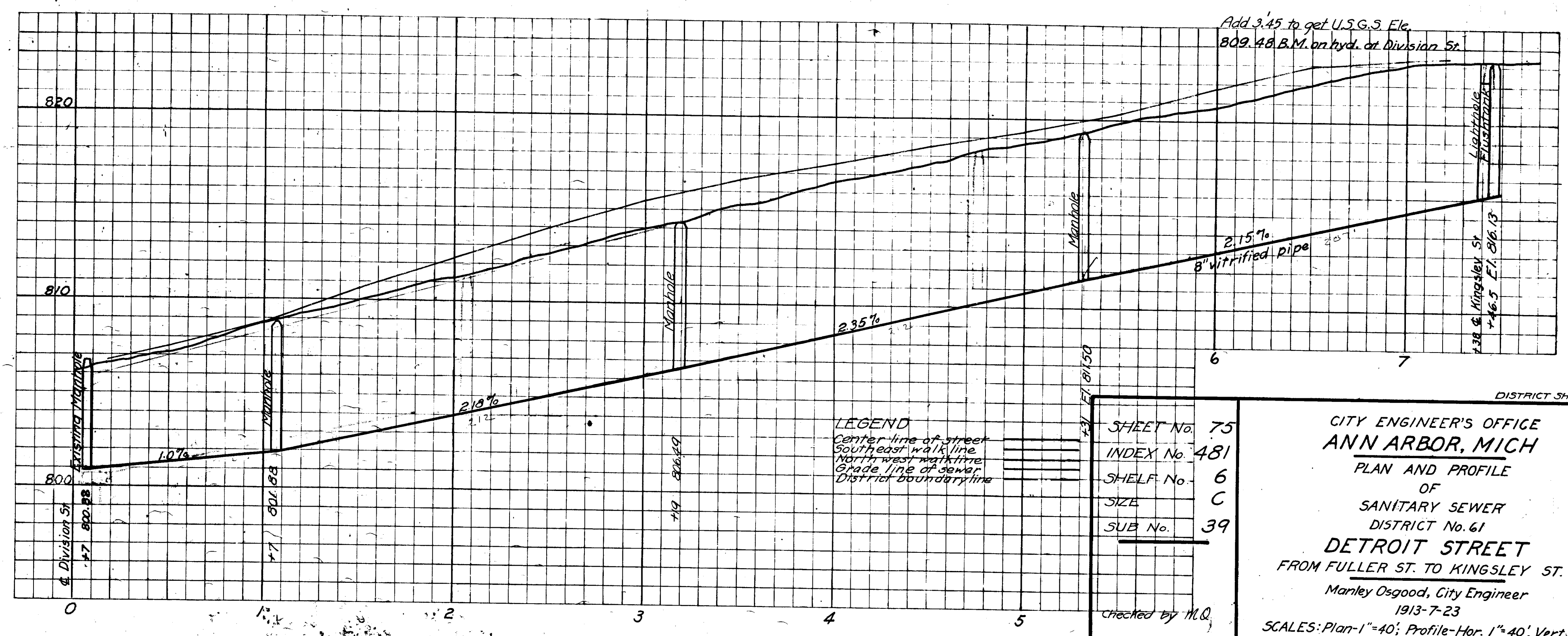




Measurements to house connections
 *0-M.H. near walk int. at NE cor. Det. + Div N.W. S.E.

900	
928 M.H. 10' from E. of Detroit St	
1400	226.0 (Blind T)
186.0	260.0 (Blind T)
2280	
2720	
311.0 M.H.	
3219	3207
3647	3433
4059	4033
4667	4411
	4516
	4951
5259 M.H.	
5332	5516
5336	5938
5836	
624.6	
670.3	
7420 M.H. at Kingsley St	
8412	7501
	8396
	8900
	9243
	9385
9560 M.H.	
1113.9	9643
1154.9	9889
	10058
11635 M.H.	
11997	12493
12513	13384
12999	13628 (Blind T)
13267	13668 L.H.
13648 (Blind T)	13725 F.T.

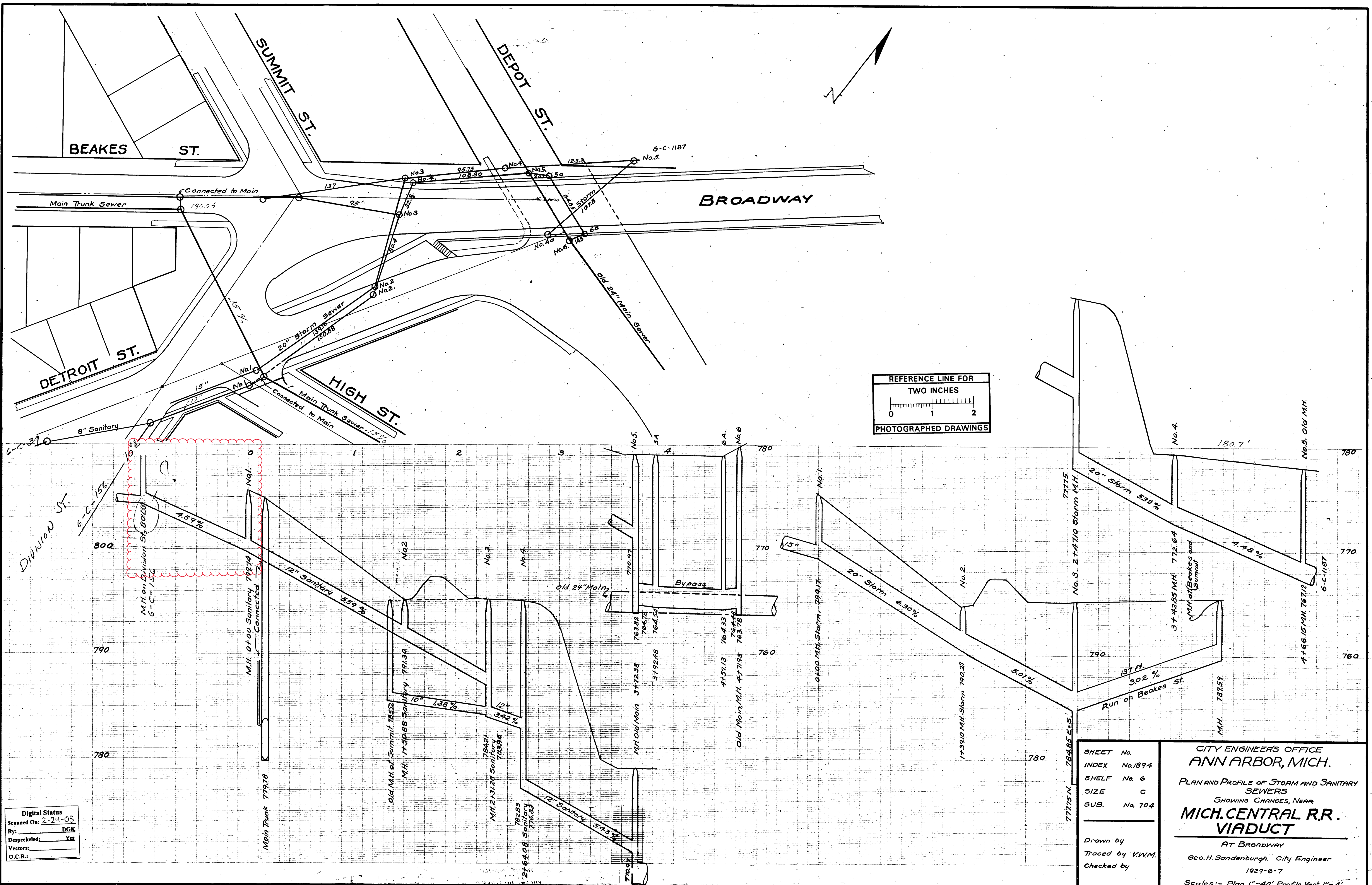
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By:	DGK
Despeckled:	Yes
Vectors:	Yes
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SHEET No. 75
 INDEX No. 481
 SHELF No. 6
 SIZE C
 SUB No. 39

CITY ENGINEER'S OFFICE
 ANN ARBOR, MICH
 PLAN AND PROFILE
 OF
 SANITARY SEWER
 DISTRICT No. 61
 DETROIT STREET
 FROM FULLER ST. TO KINGSLEY ST.
 Marley Osgood, City Engineer
 1913-7-23
 SCALES: Plan-1"=40'; Profile-Hor. 1"=40'; Vert. 1"=4'
 Two Sheets Sheet No. 1

Corrected to Final Measurements 3-5-1915 by SLOMAN.



REFERENCE LINE FOR
TWO INCHES
0 1 2
PHOTOGRAPHED DRAWINGS

Digital Status
Scanned On: 2-24-05
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

SHEET No.
INDEX No. 1894
SHELF No. 6
SIZE C
SUB. No. 704

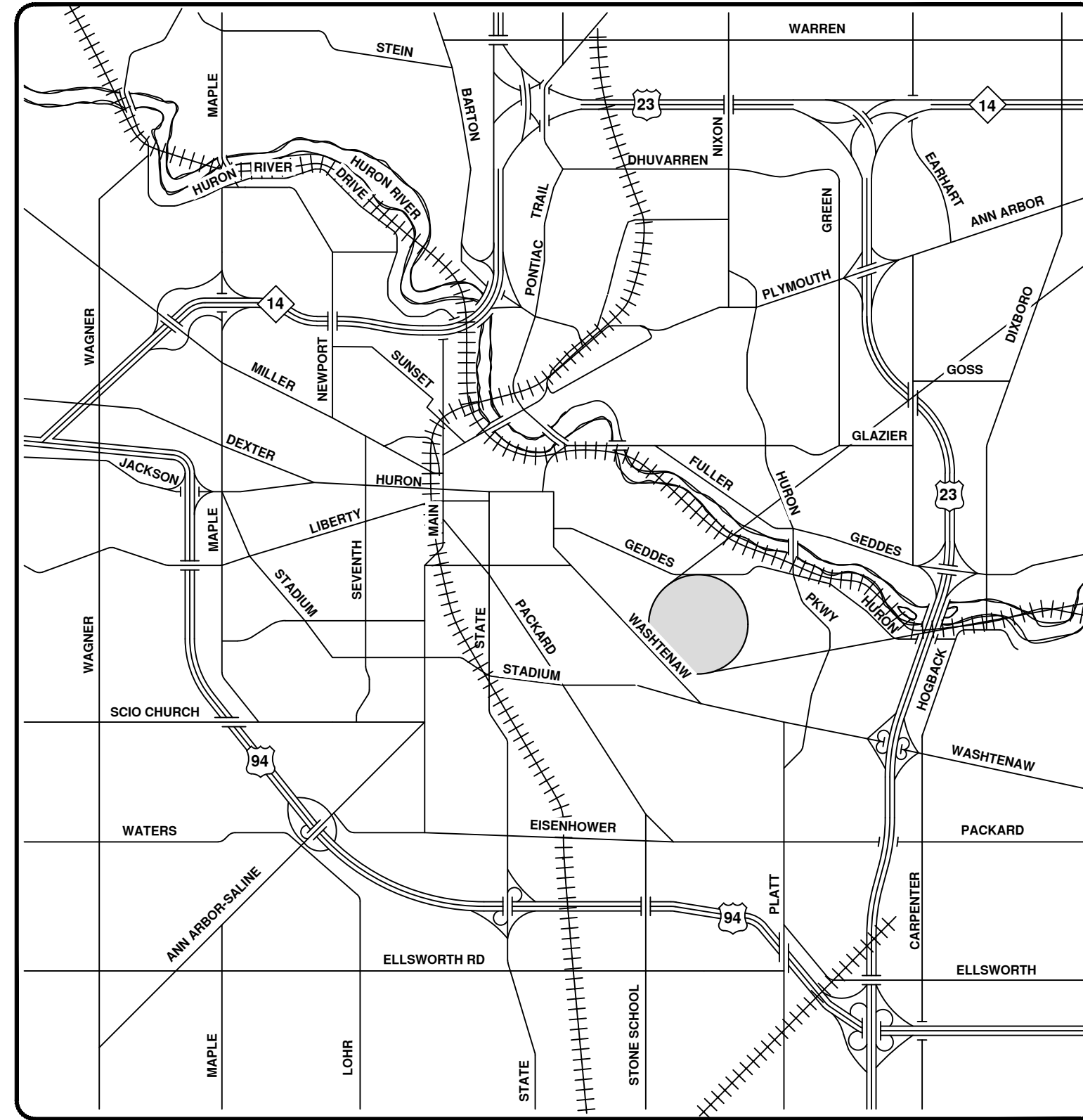
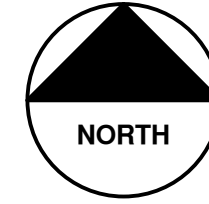
CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE OF STORM AND SANITARY
SEWERS
SHOWING CHANGES, NEAR
MICH. CENTRAL R.R. VIADUCT
AT BROADWAY
Geo. H. Sandenburgh, City Engineer
1929-6-7
Scale:— Plan 1"=40' Profile Vert 1"=4'

Drawn by
Traced by K.W.M.
Checked by

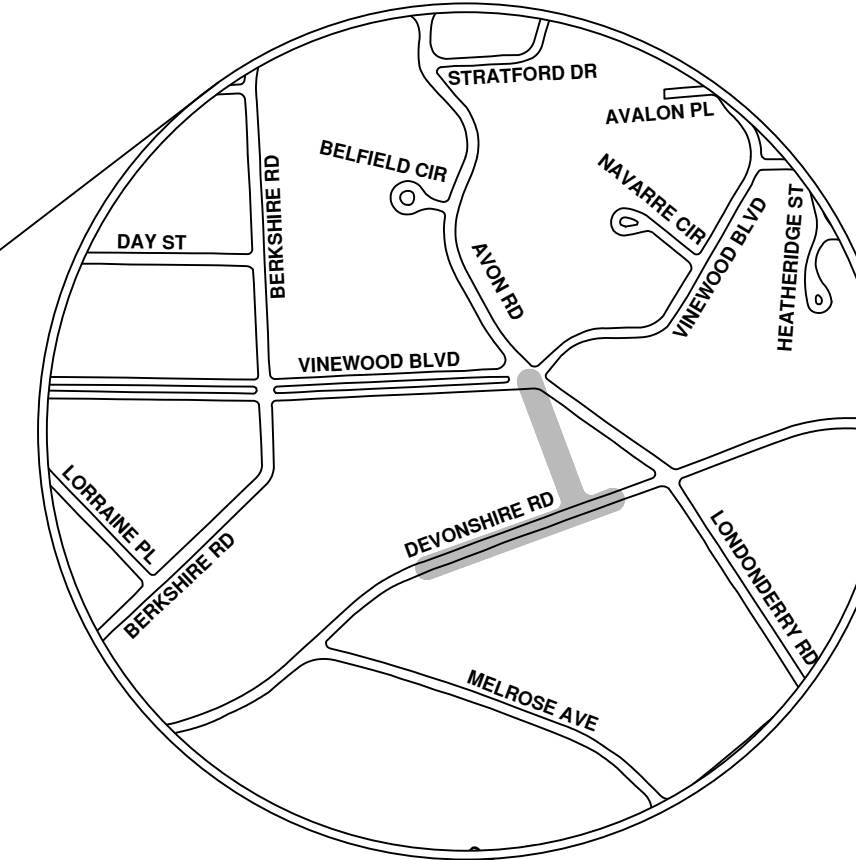


2023 SEWER LINING PROJECT

DEVONSHIRE RD



VICINITY MAP



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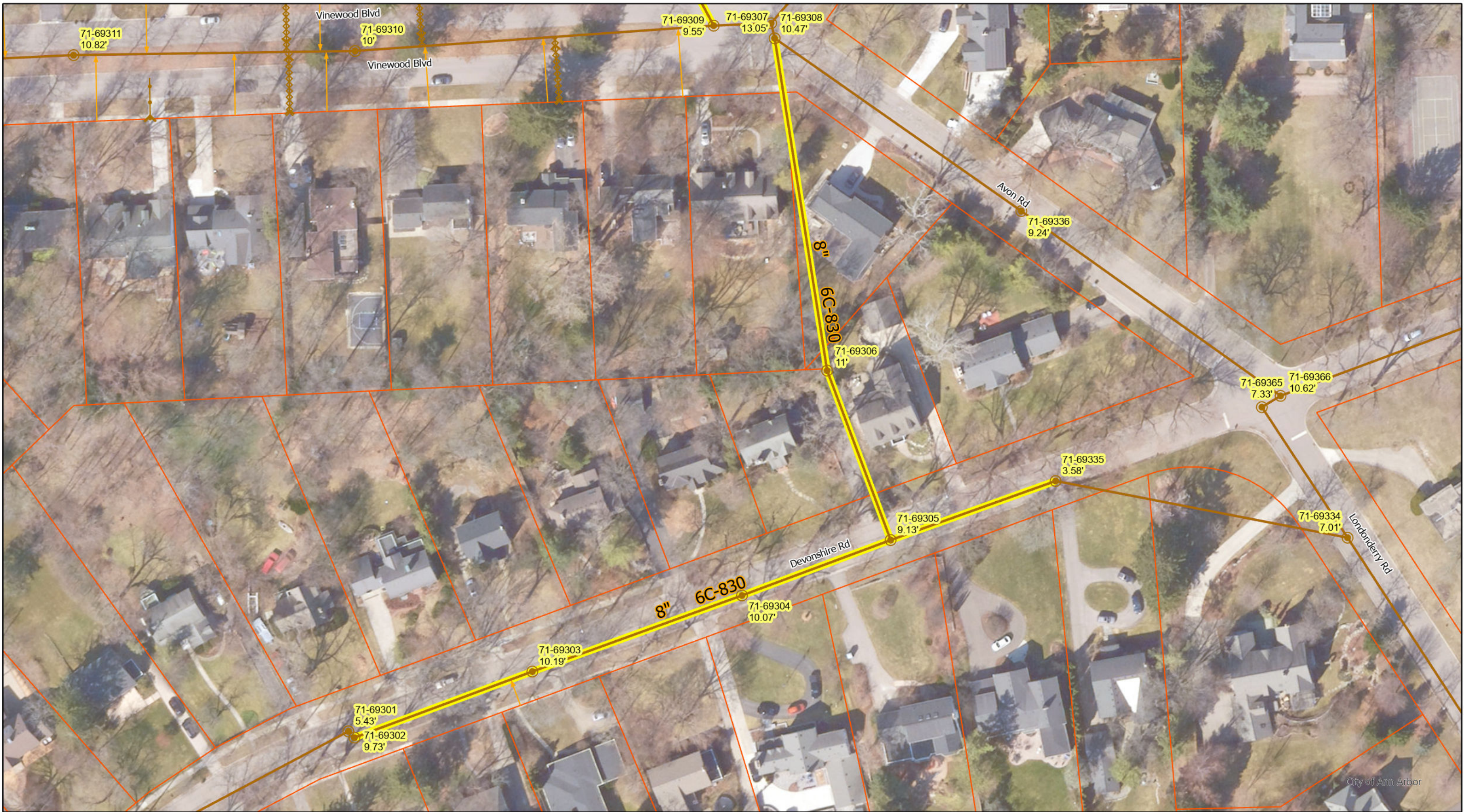
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

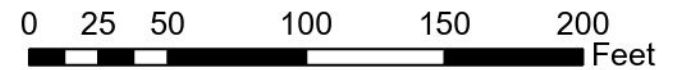
SCALE
 DRAWING No.
 2023011-21

SHEET No.
 21 OF 119



City of Ann Arbor

Devonshire Rd



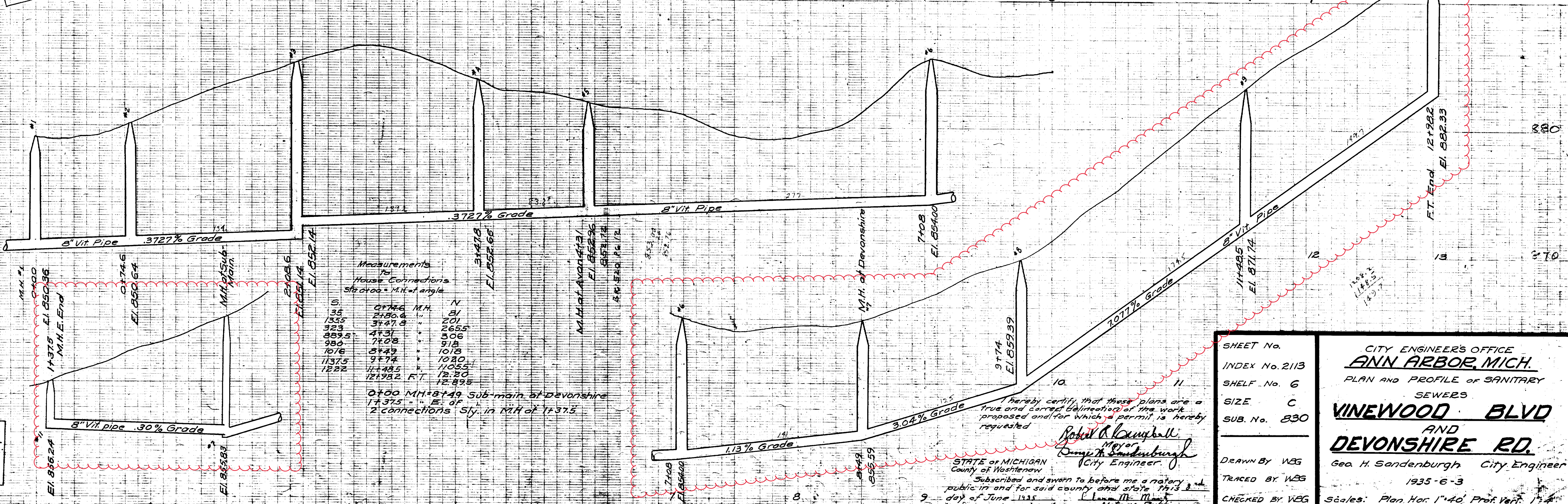
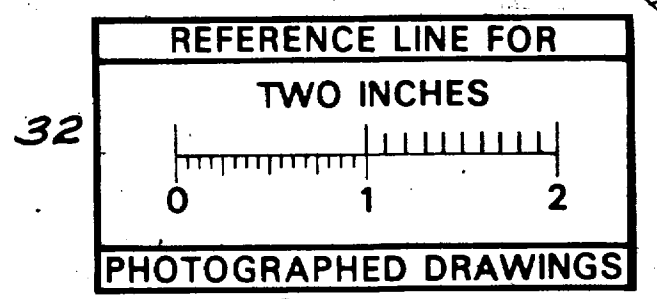
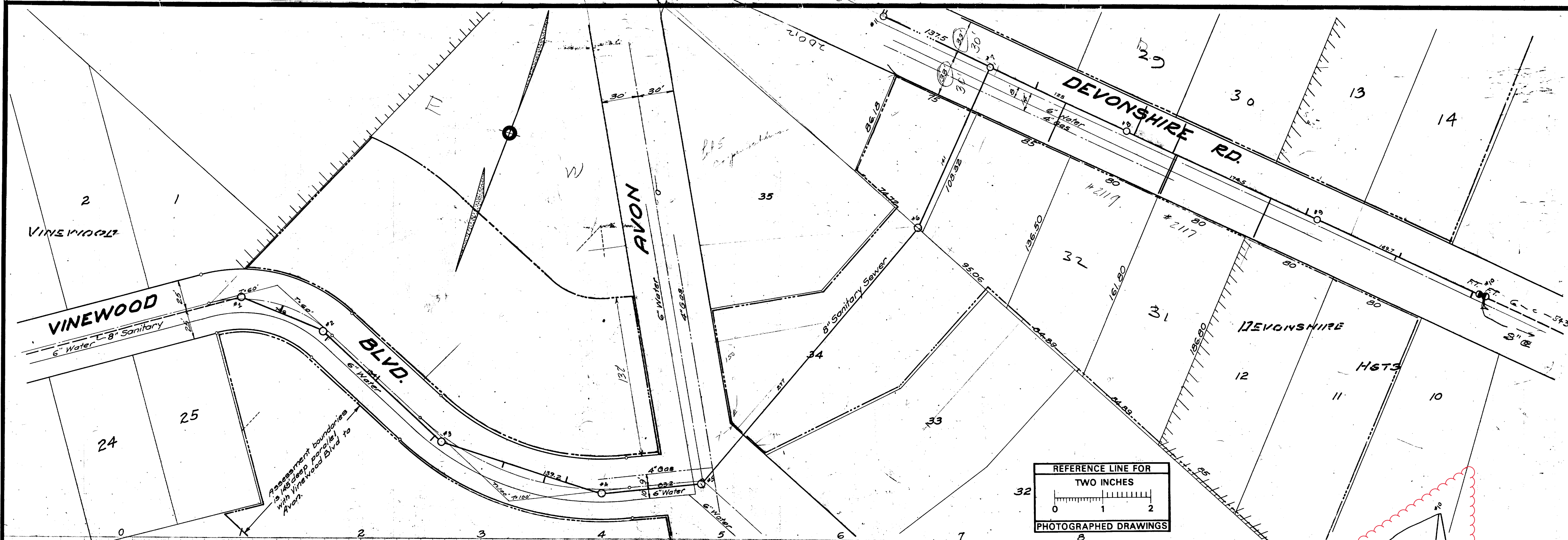
- Manhole
- Sanitary Main
- Sanitary Lateral, Abandoned
- Proposed Lining
- Sanitary Lateral, Plugged
- Sanitary Lateral

71-XXXX (Manhole ID)

X.XX' (Manhole Depth)

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





Measurements for House Connections 5/8" or 1" M.H. at angle

S	Dist. M.H.	N
35	0746	31
135	2130.4	201
323	3747.3	2655
337.5	4131	306
934	7108	318
1016	8143	1018
1137.5	9174	1080
1222	11485	11055
	12198.2 FT.	12198.2

0+00 M.H. at 149 Sub-main at Devonshire
14375' 1st of
2' connections 5/8" in M.H. at 14375'

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

I hereby certify that these plans are a true and correct delineation of the work proposed and for which a permit is hereby requested.

Robert A. Sandenburgh
Meyer
City Engineer

STATE OF MICHIGAN
County of Washtenaw

Subscribed and sworn to before me a Notary Public in and for said county and state, this 9 day of June 1935.

L. W. M. M.
Notary Public

SHEET No. INDEX No. 213
SHELF No. 6
SIZE C
SUB. No. 830

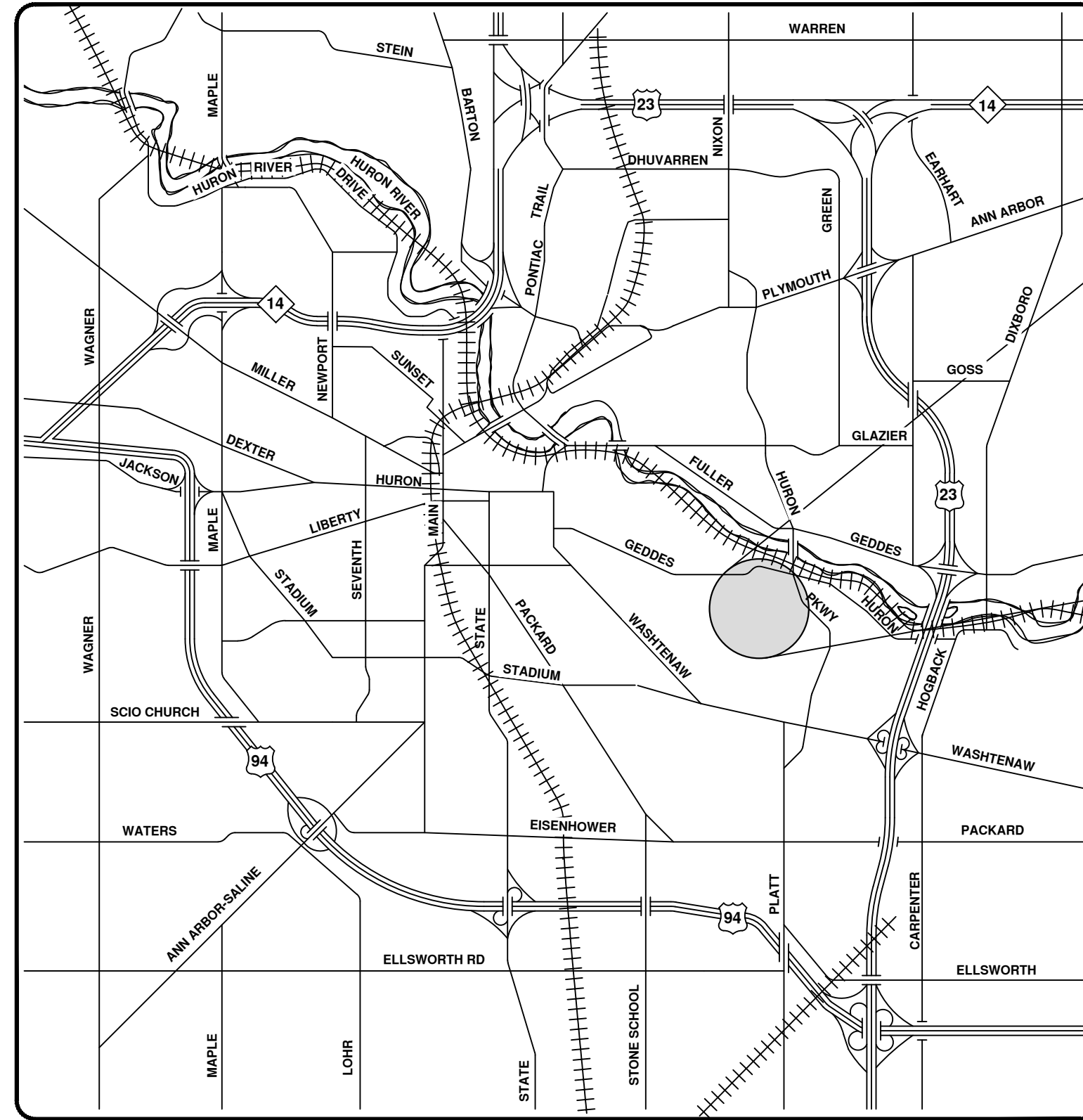
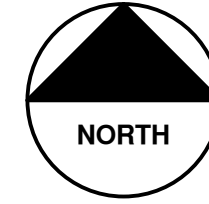
CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE OF SANITARY SEWERS
VINEWOOD BLVD AND DEVONSHIRE RD.
Geo. H. Sandenburgh City Engineer
1935-6-3
Scale: Plan Hor. 1"=40' Prof. Vert. 1"=4'

DRAWN BY WEG
TRACED BY WEG
CHECKED BY WEG

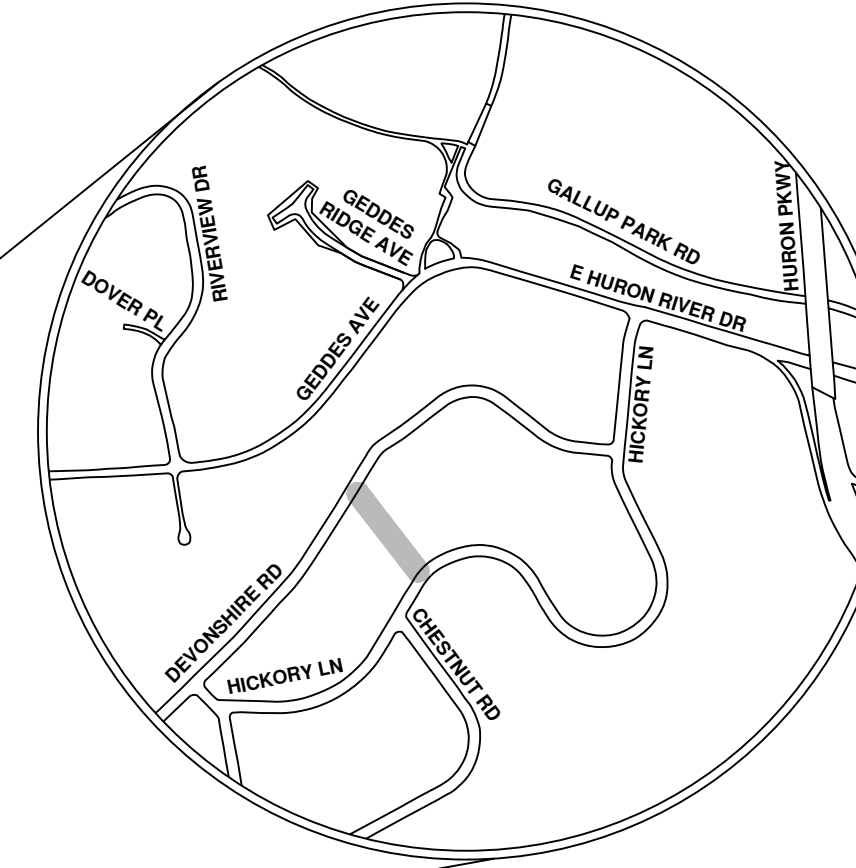


2023 SEWER LINING PROJECT

DEVONSHIRE RD XLOT



VICINITY MAP



R:\2023011 Sewer Lining 2023\Plan Production\2023011CovSan.dwg - _a2 standard bw.stb - Plot Date: 8/4/2023 10:54:51 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



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	8/4/23	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.
 2023011-24

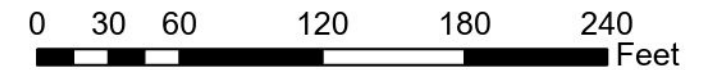
SHEET No.

24 OF 119



- Manhole
- Sanitary Main
- Sanitary Lateral
- Proposed Lining

Devonshire Rd Xlot

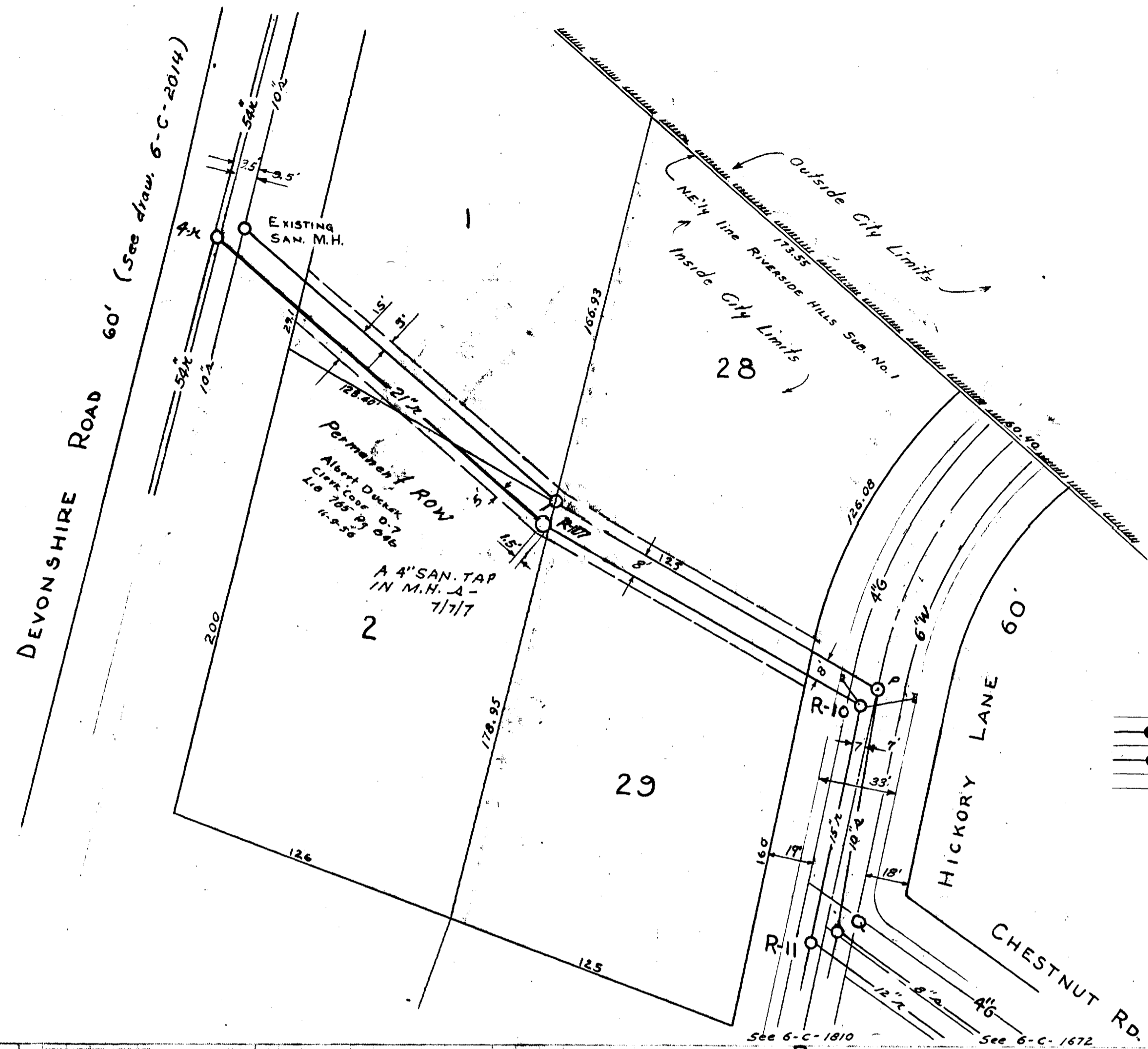


71-XXXXX (Manhole ID)

X.XX' (Manhole Depth)

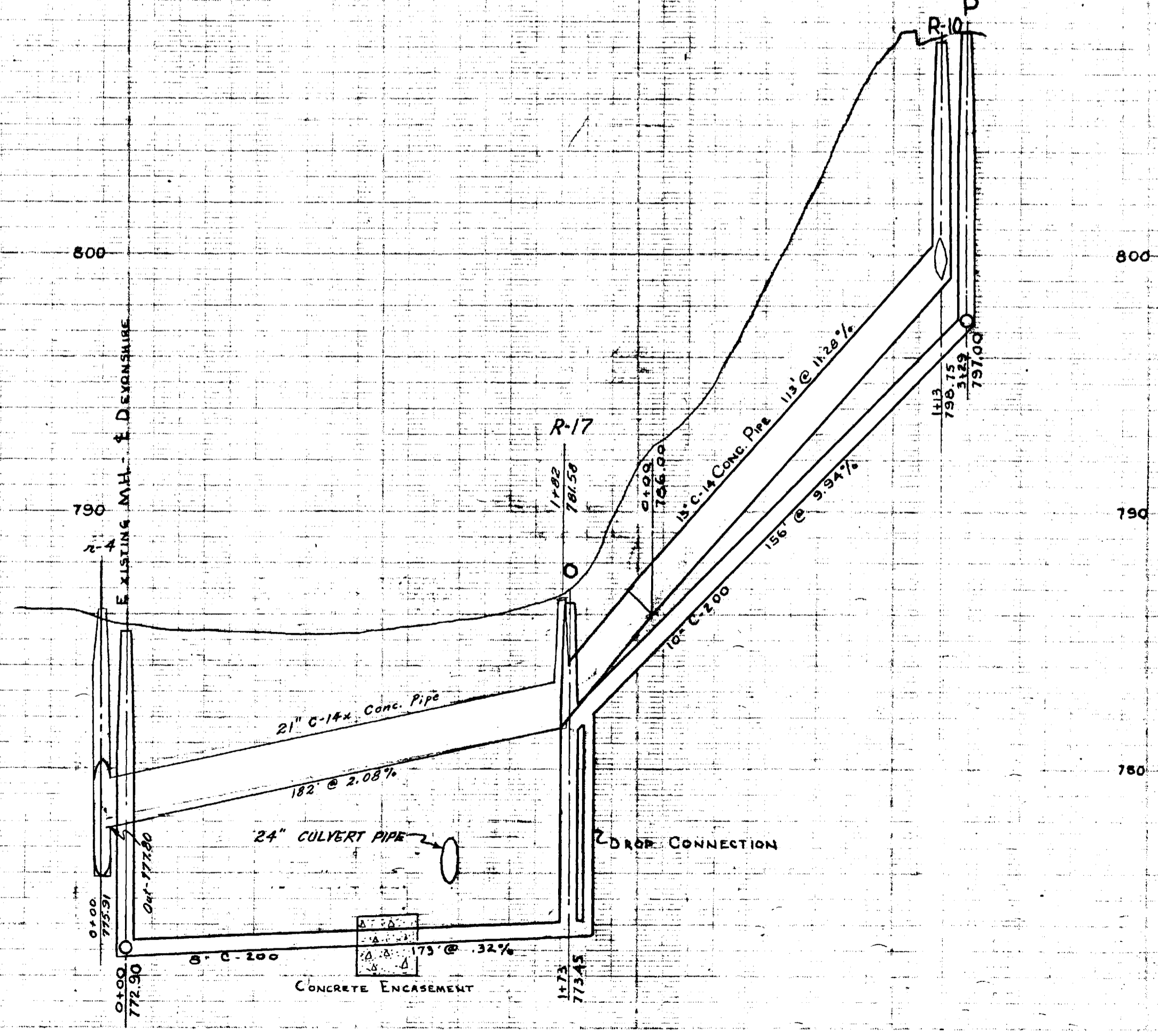
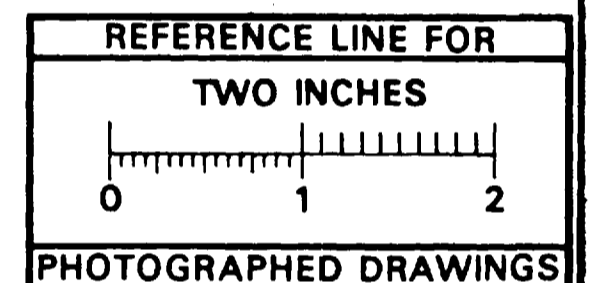
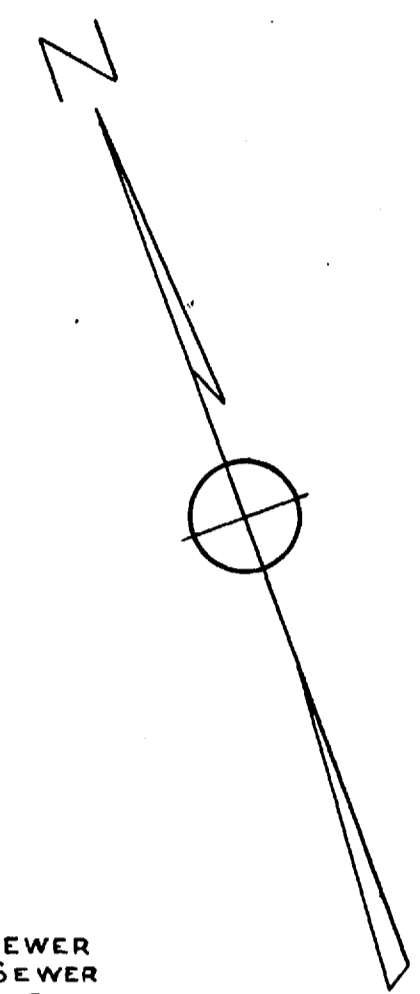
For terms and conditions please visit www.a2gov.org/terms





- LEGEND**
- Existing Sanitary Sewer
 - Proposed Sanitary Sewer
 - Existing Storm Sewer
 - Proposed Storm Sewer
 - Water
 - Gas

- REFERENCES**
- BENCH MARKS — HYDRANT - HICKORY LANE EAST OF SPRUCE EL. 818.32
 - DRAWINGS —
 - PROFILES — Book 737 pg. 57



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

Job No 2304 S } Private
No. 2305 R }
Job No. 2621 R Private
JOB # 2157R - DIST. # 27

DR. BY	RDT	DATE	11-56	SHEET NO.	INDEX NO. 3439
TR. BY				SHELF NO.	
CH. BY				6-C-1671	
REVISIONS	5/58 A.A.M.		SCALE: HORIZONTAL 1"=40'		
	12/80 H.M.H.		VERTICAL 1"=4"		

SANITARY & STORM
CROSSLOTS
DEVONSHIRE RD. TO HICKORY LANE

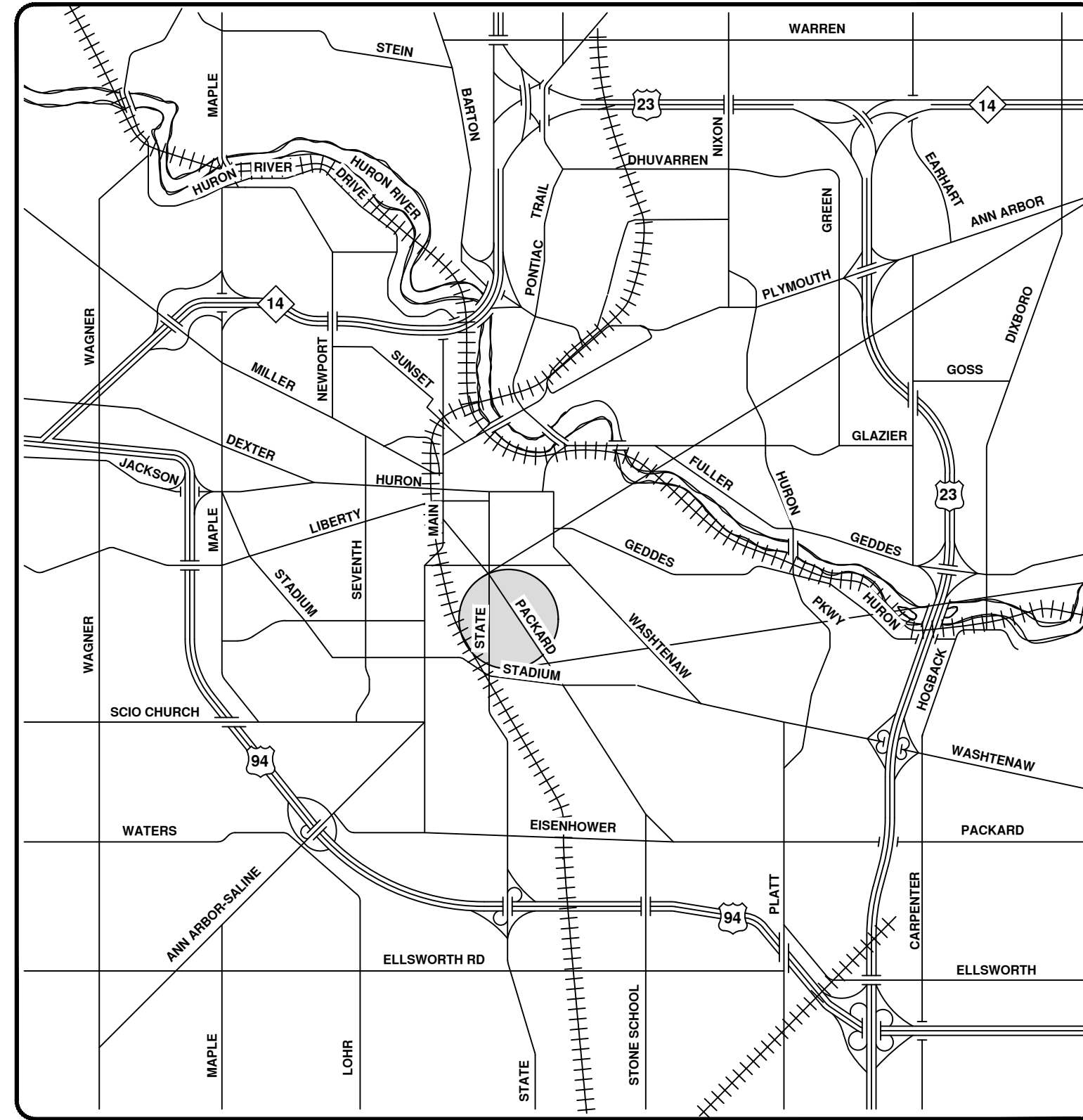
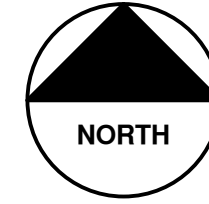
FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS

CITY ENGINEER'S OFFICE — ANN ARBOR, MICHIGAN



2023 SEWER LINING PROJECT

DEWEY AVE



VICINITY MAP



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 CITY OF ANN ARBOR PUBLIC SERVICES
 301 EAST HURON STREET, P.O. BOX 8647
 ANN ARBOR, MICHIGAN 48107-8647
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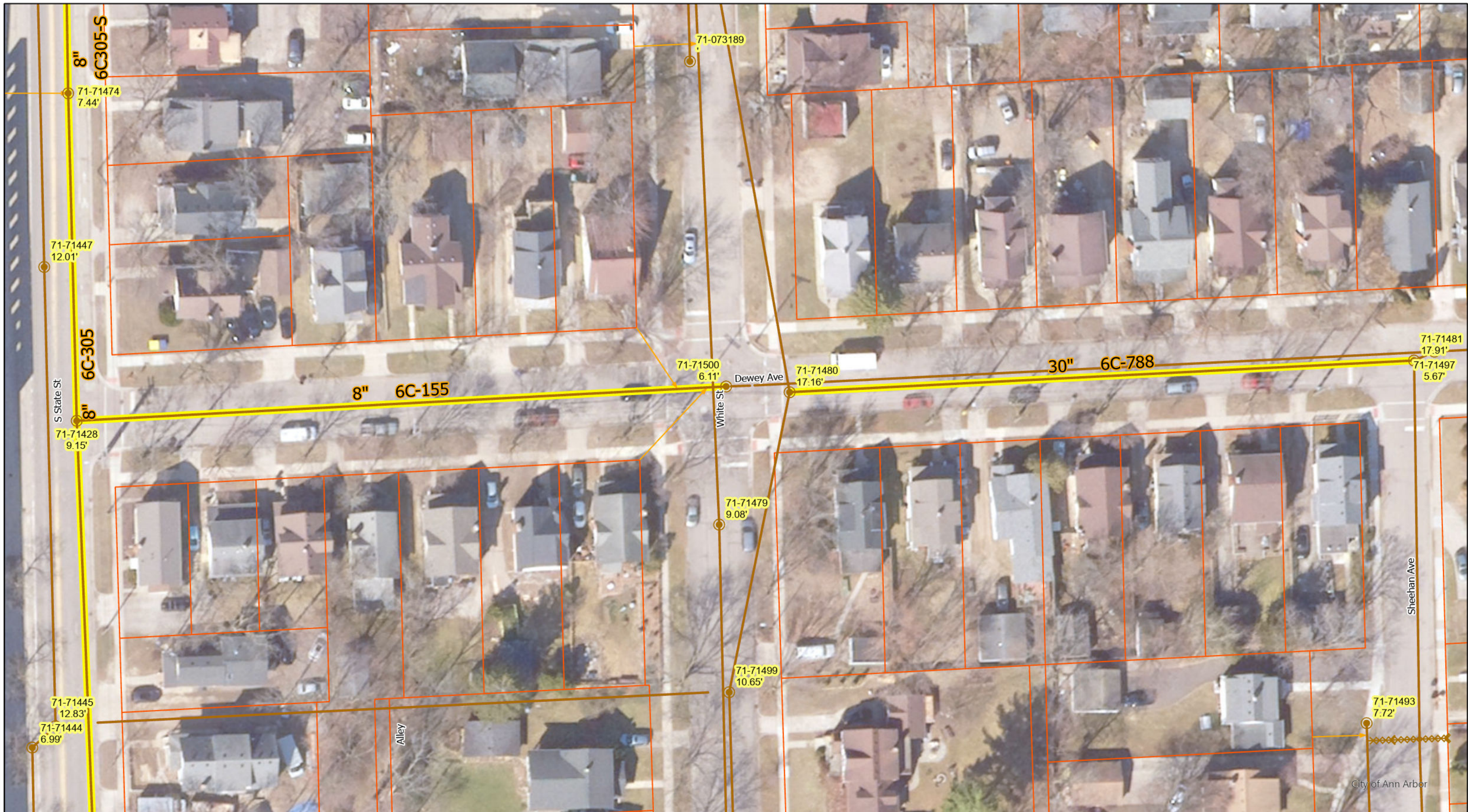


REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	8/4/23	ARG	IK

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 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. 2023011-27



○ Manhole

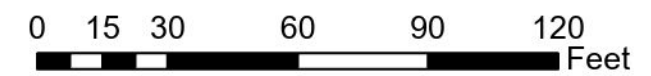
— Sanitary Main

→ Sanitary Lateral

⌘ Sanitary Lateral, Plugged

█ Proposed Lining

Dewey Ave

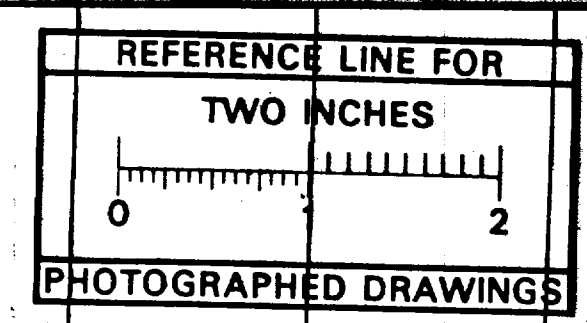
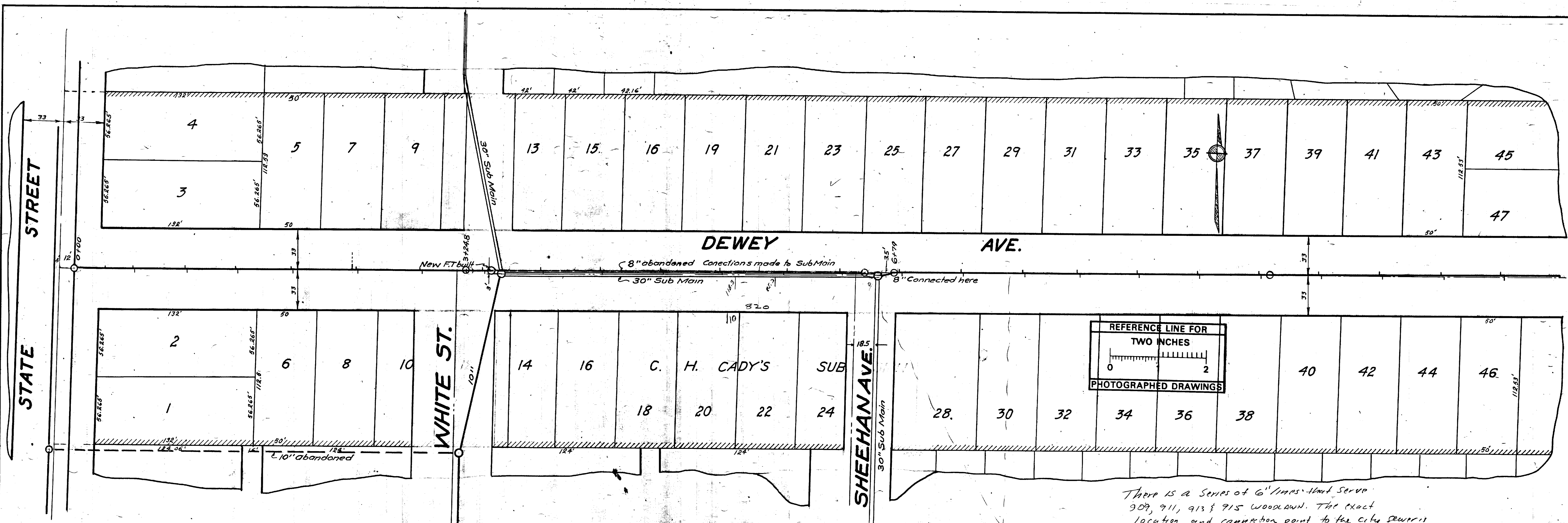


71-XXXXX (Manhole ID)

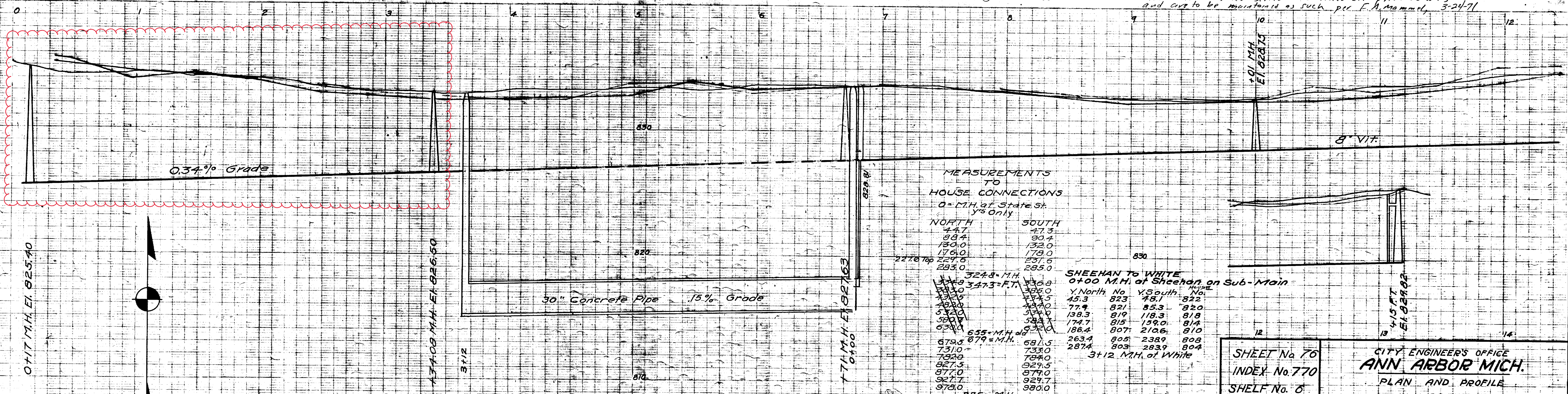
X.XX' (Manhole Depth)

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





There is a Series of 6" Lines that serve 909, 911, 913 & 915 Woodlawn. The exact location and connection point to the City Sewer is not known. This Series of 6" lines are private sewers and are to be maintained as such per F.A. Mammely 3-21-71



MEASUREMENTS TO HOUSE CONNECTIONS

0 = M.H. at State St. Ys Only

NORTH	SOUTH
44.7	47.3
58.4	50.4
72.0	72.0
176.0	178.0
227.0	231.0
285.0	285.0

SHEEHAN TO WHITE 0+00 M.H. at Sheehan on Sub-Main

Y North No.	Y South No.	Elev.
45.3	823	48.1
77.4	821	85.3
138.3	819	118.3
174.7	815	159.0
188.4	807	210.6
263.4	805	238.6
287.4	803	283.9

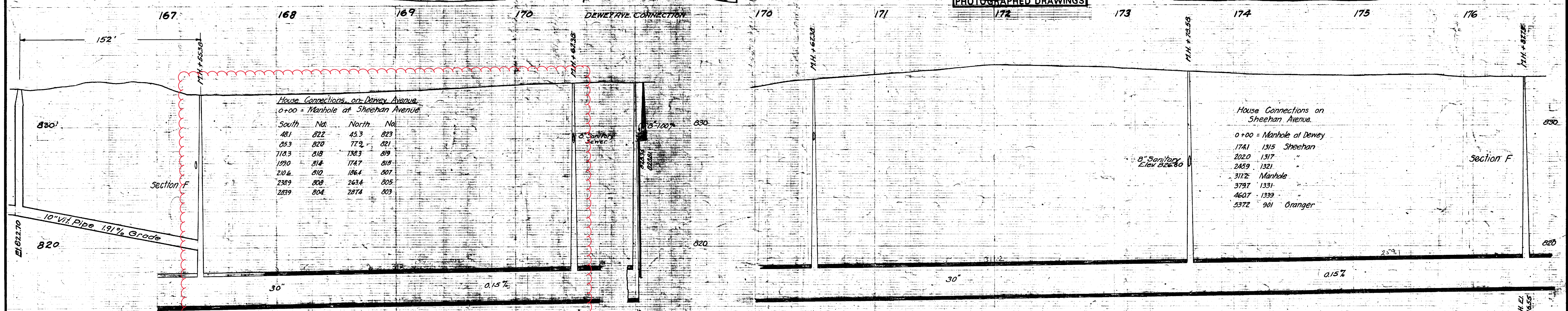
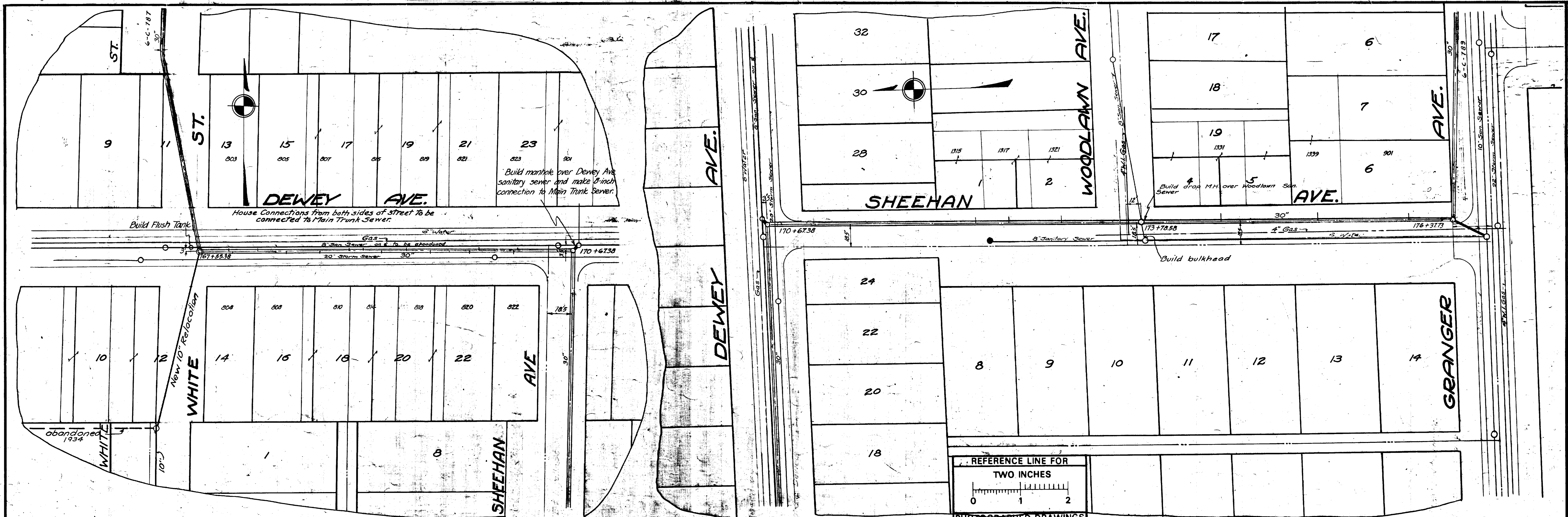
12990'-FT. Bench Mark Hyd. Dewey Ave. State St. Elev. 537.52 U.S.G.S.

Digital Status
Scanned On: 8-26-04
By: DGM
Despeckled: Yes
Vectors: Yes
O.C.R.:

SHEET No. 76
INDEX No. 770
SHELF No. 0
SIZE C
SUB No. 155

Drawn by
Traced by Hill
Checked by J.

CITY ENGINEER'S OFFICE
ANN ARBOR MICH.
PLAN AND PROFILE
OF
SANTARY SEWER
DEWEY AVE.
STATE TO PACKARD
Manley, Osgood City Engineer.
1917
Scales-Plan 1"=40' Profile Hor 1"=40' Ver 1"=4'



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

INDEX No. 2024
SHELF No. 6
SIZE C
SUB No. 788

Drawn by
Traced by KGD
Checked by

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
MAIN TRUNK
SANITARY SEWER
Dewey-White to Sheehan-Sheehan-Dewey to Granger

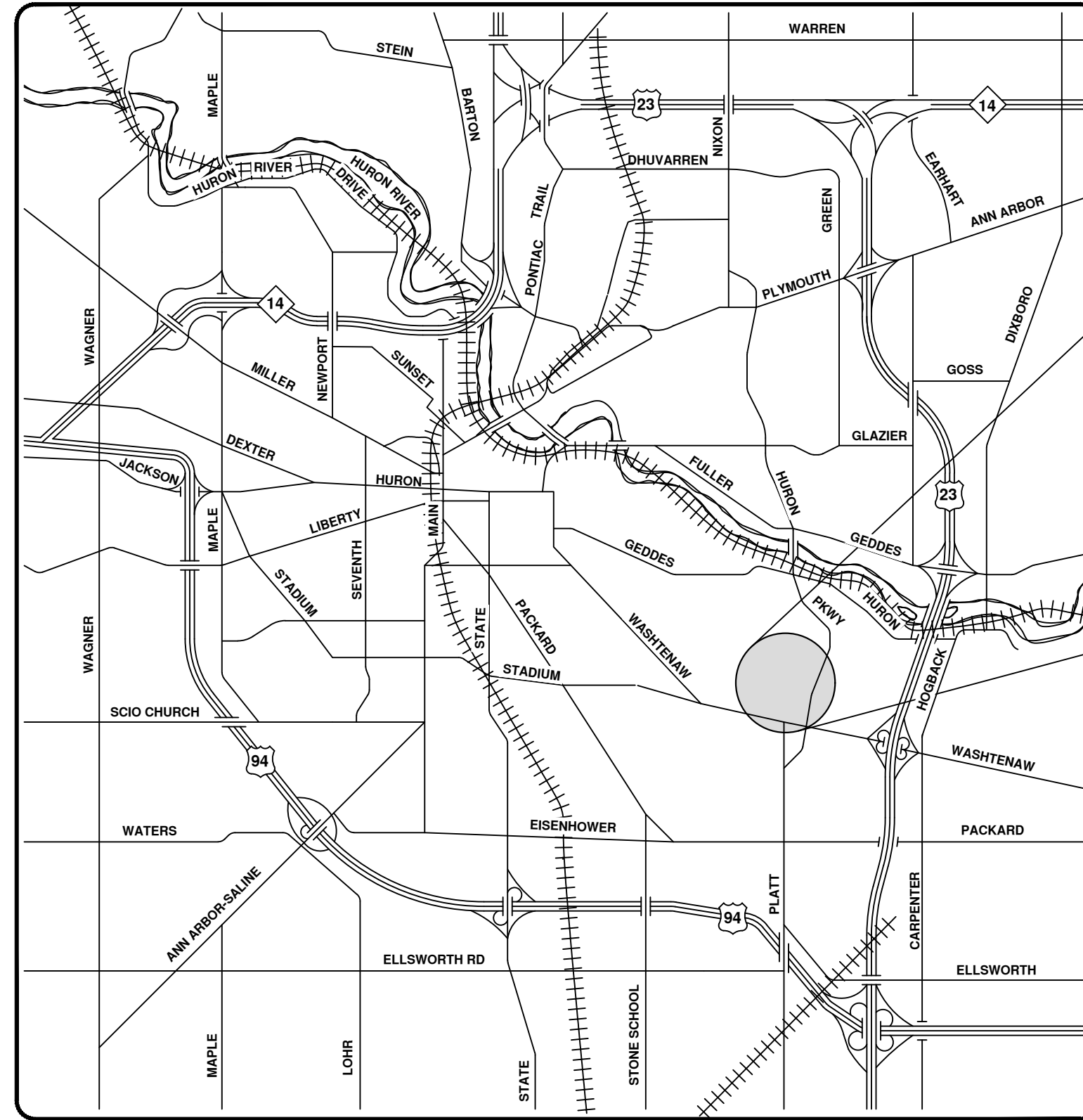
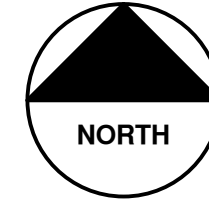
Geo. H. Sandenburgh City Engineer
1926-11-5

Scales: Plan, Hor. 1"=40' Prof. Vert. 1"=4'

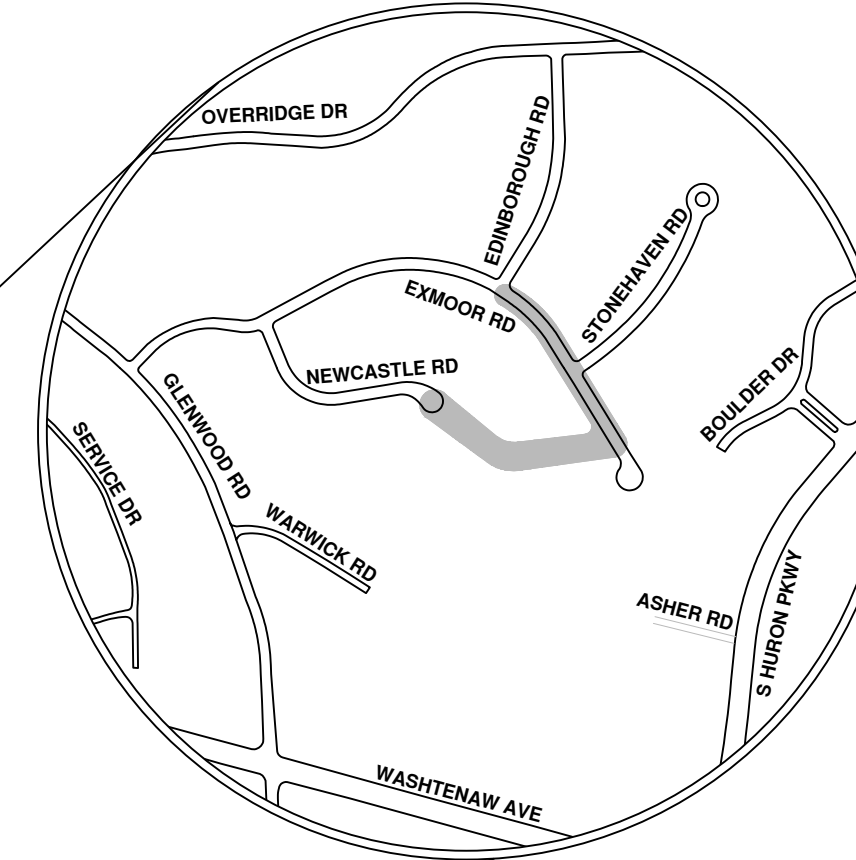


2023 SEWER LINING PROJECT

EXMOOR RD



VICINITY MAP



ENGINEERING
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	8/4/23	ARG	IK

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

SCALE
 DRAWING No.
 2023011-31

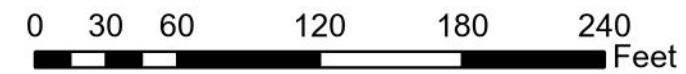
SHEET No.

31 OF 119



- Manhole
- Sanitary Main
- Proposed Lining
- Sanitary Lateral

Exmoor Rd

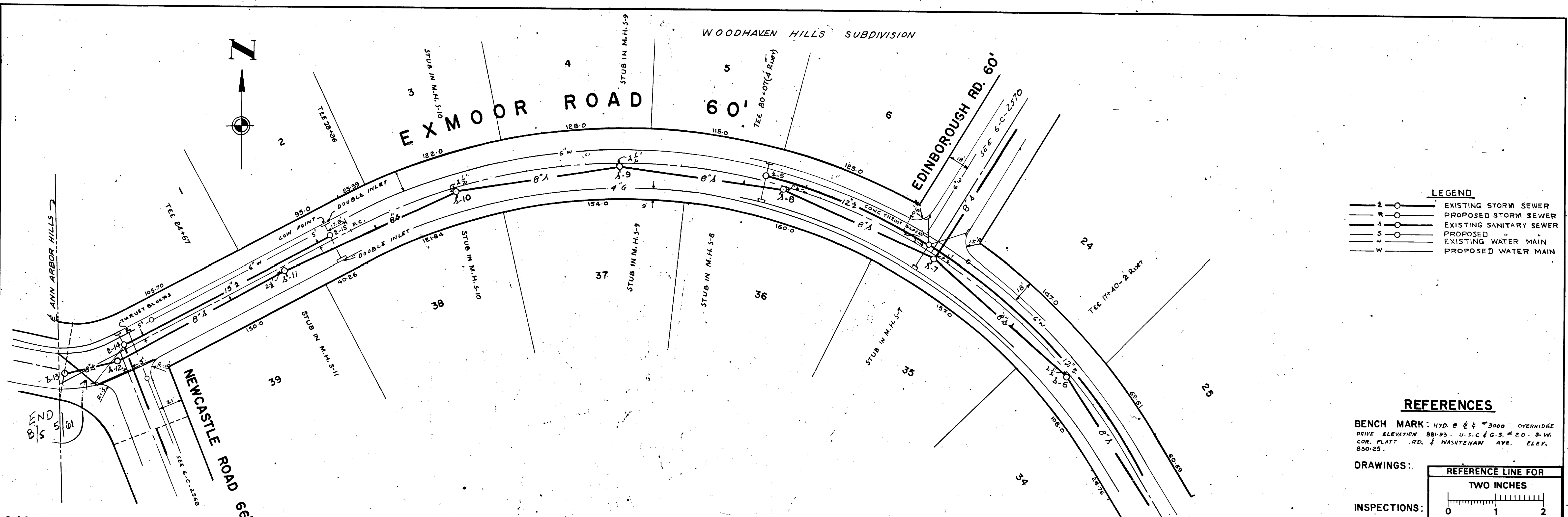


71-XXXXX (Manhole ID)
 X.XX' (Manhole Depth)

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City of Ann Arbor



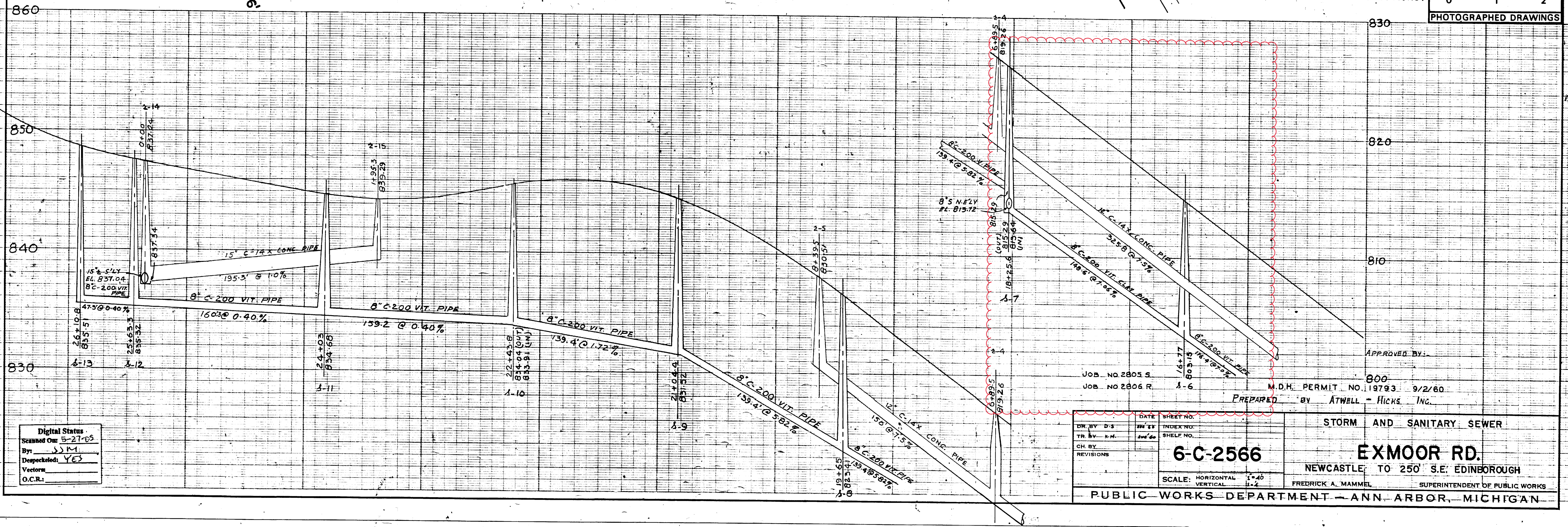
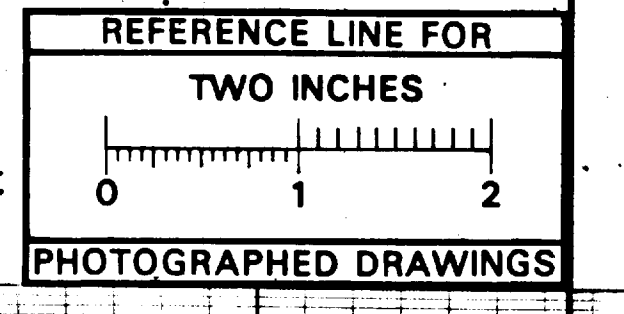
LEGEND

—○—	EXISTING STORM SEWER
- - -○-	PROPOSED STORM SEWER
—○—	EXISTING SANITARY SEWER
- - -○-	PROPOSED " " "
—○—	EXISTING WATER MAIN
- - -○-	PROPOSED WATER MAIN

REFERENCES

BENCH MARK: HYD. @ 4' ± 3000 OVERRIDGE
 DRIVE ELEVATION 881.93 U.S.C. & G.S. # 20 - S.W.
 COR. PLATT RD. & WASHINGTON AVE. ELEV.
 830.25.

DRAWINGS:



Digital Status
 Scanned On: 5-27-05
 By: JMM
 Despeckled: YES
 Vector:
 O.C.R.:

APPROVED BY: _____

JOB NO 2805 S. 800
 JOB NO 2806 R. 1-6 M.D.H. PERMIT NO. 19793 9/2/60
 PREPARED BY ATWELL - HICKS, INC.

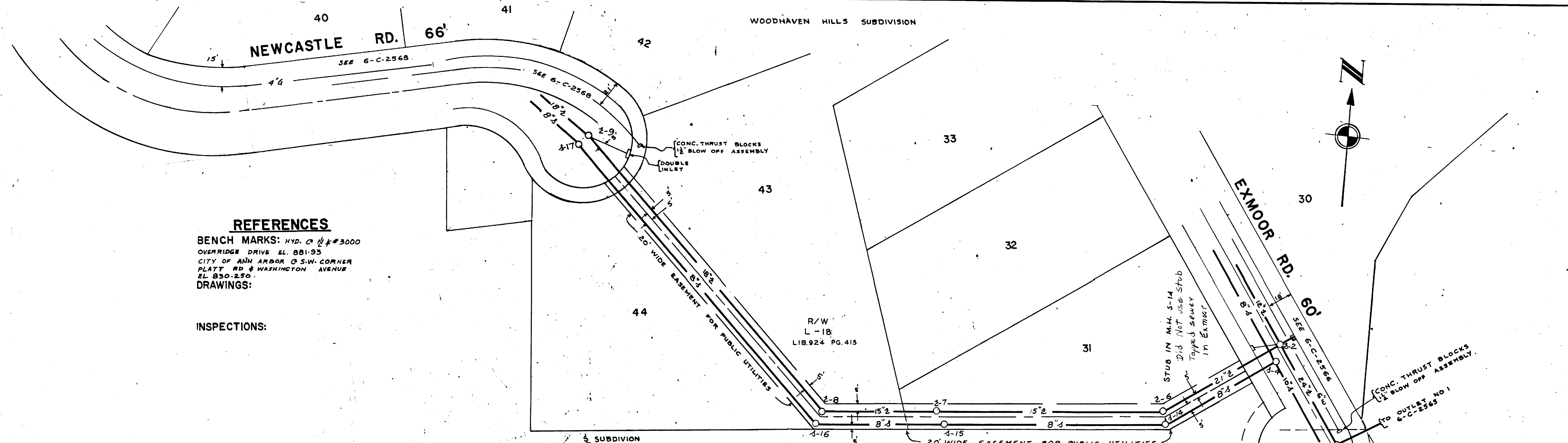
DR. BY D.S.	DATE	SHEET NO.
TR. BY K.M.	JUN 22	25
CH. BY		
REVISIONS		

6-C-2566

SCALE: HORIZONTAL 1"=40'
 VERTICAL 1"=4'

STORM AND SANITARY SEWER
EXMOOR RD.
 NEWCASTLE TO 250' S.E. EDINBOROUGH
 FREDERICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS

PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN



REFERENCES

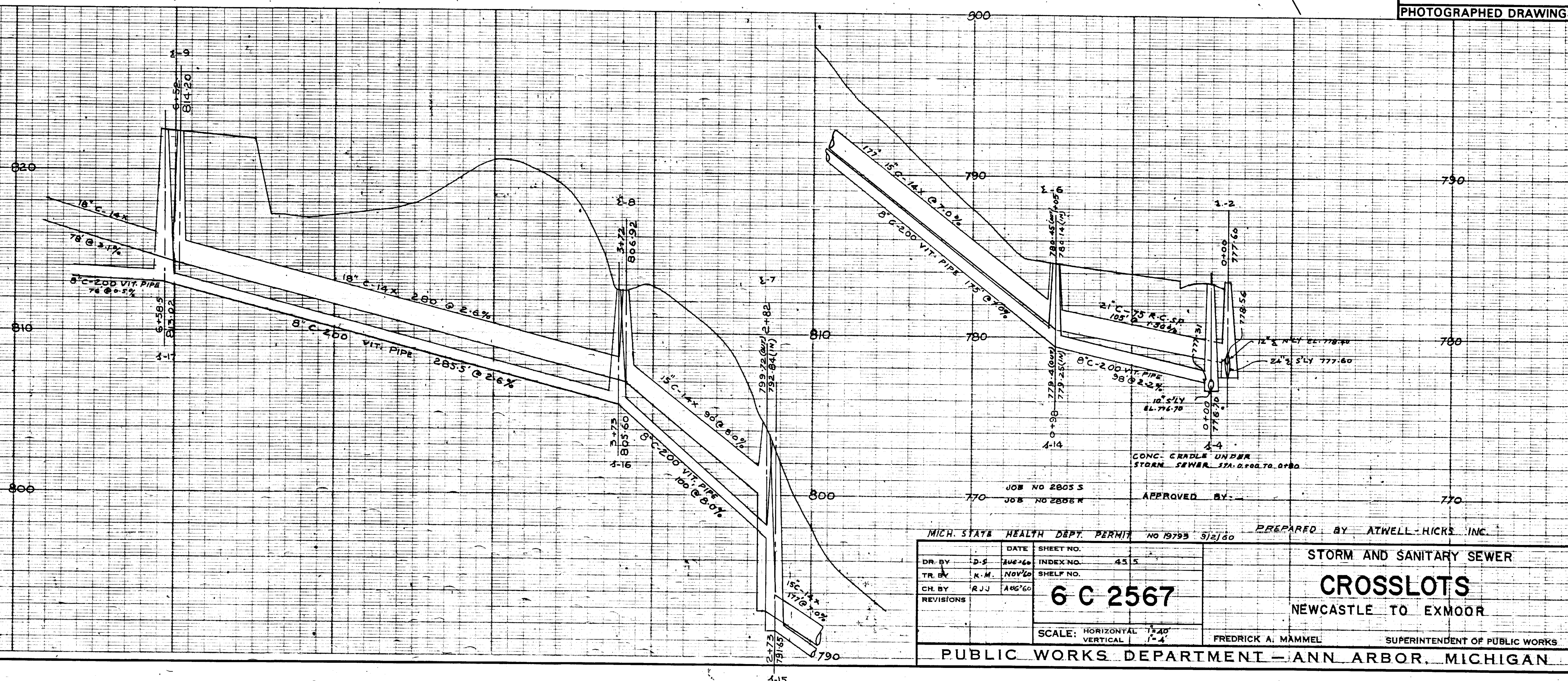
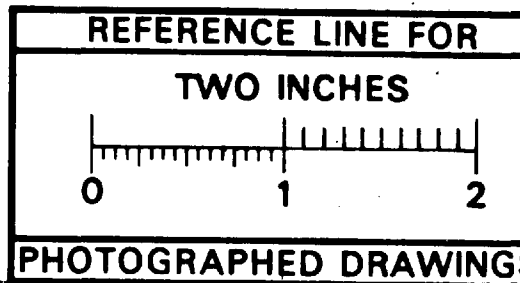
BENCH MARKS: HYD. C. #3000
 OVERRIDGE DRIVE EL. 881.93
 CITY OF ANN ARBOR C.S.W. CORNER
 PLATT RD & WASHINGTON AVENUE
 EL. 830.250
 DRAWINGS:

INSPECTIONS:

LEGEND

- — EXISTING STORM SEWER
- — PROPOSED STORM SEWER
- — EXISTING SANITARY SEWER
- — PROPOSED SANITARY SEWER
- W — PROPOSED WATER MAIN
- W — EXISTING WATER MAIN

NOT INCLUDED IN PLAT
 DO NOT CUT OR FILL THIS AREA
 WITHOUT OWNERS PERMISSION



Digital Status
 Scanned On: 5-27-05
 By: JEM
 Dispatched: YES
 Vector:
 O.C.R.:

MICH. STATE HEALTH DEPT. PERMIT NO 19795 5/2/60 PREPARED BY ATWELL-HICKS, INC.

DR. BY	D.S. AUG 60	INDEX NO.	4515
TR. BY	K.M. NOV 60	SHELF NO.	
CH. BY	R.J.J. AUG 60		
REVISIONS			

6 C 2567

SCALE: HORIZONTAL 1"=40'
 VERTICAL 1"=4'

FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS

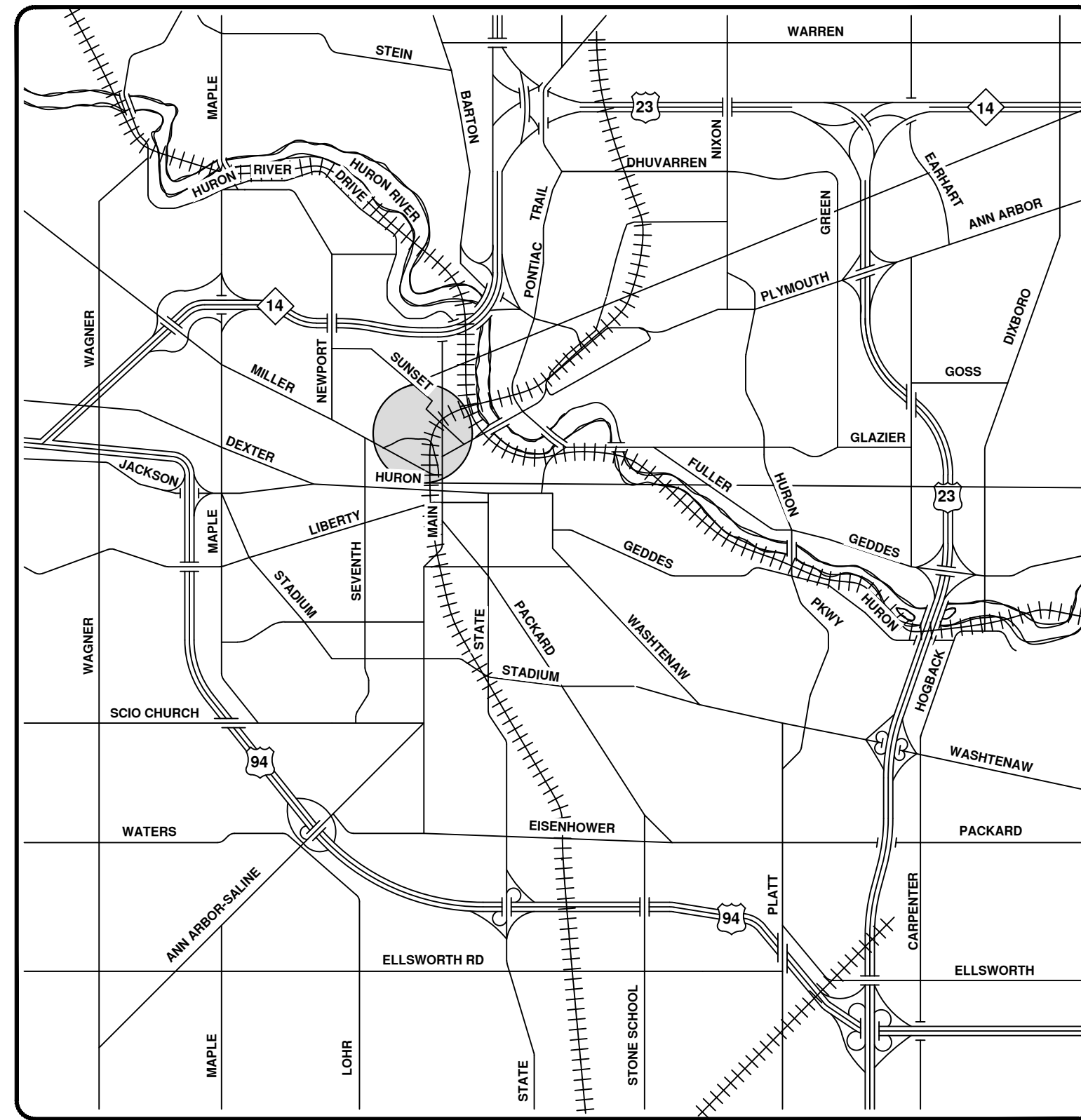
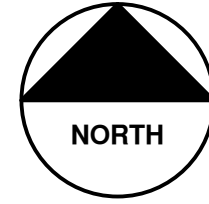
**STORM AND SANITARY SEWER
 CROSSLOTS
 NEWCASTLE TO EXMOOR**

PUBLIC WORKS DEPARTMENT — ANN ARBOR, MICHIGAN

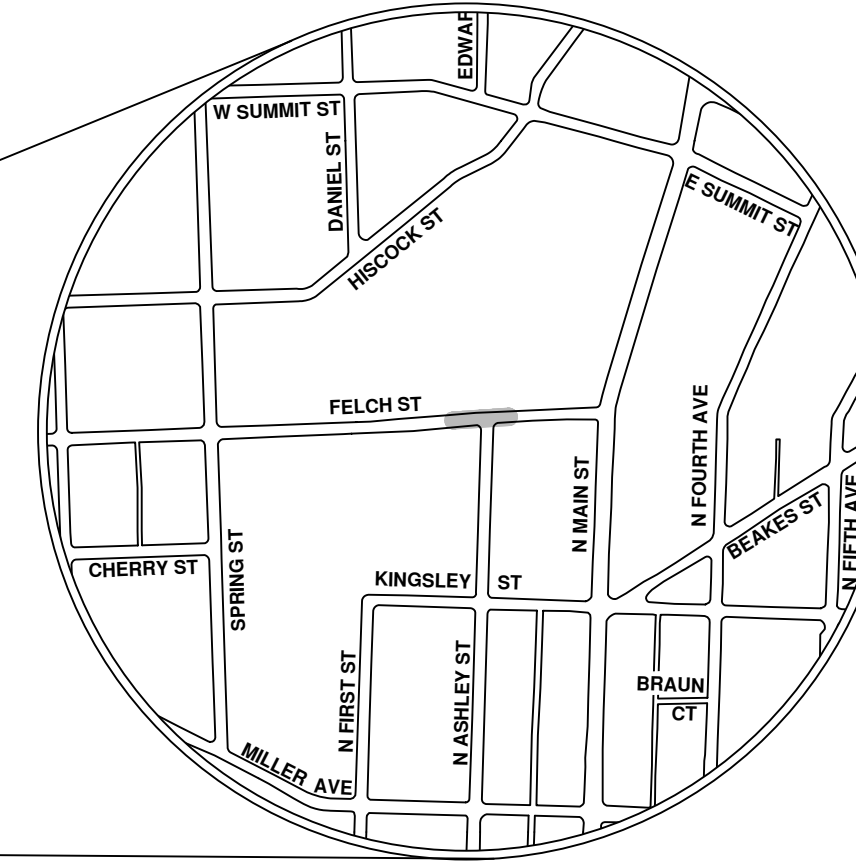


2023 SEWER LINING PROJECT

FELCH ST



VICINITY MAP



ENGINEERING
 CITY OF ANN ARBOR PUBLIC SERVICES
 301 EAST HURON STREET, P.O. BOX 8647
 ANN ARBOR, MICHIGAN 48107-8647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2023011-36

SHEET No.

36 OF 119

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

DESCRIPTION

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DESCRIPTION

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8/4/23

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8/4/23

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CHECKED

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DESCRIPTION

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8/4/23

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CHECKED

DRAWN

REV.

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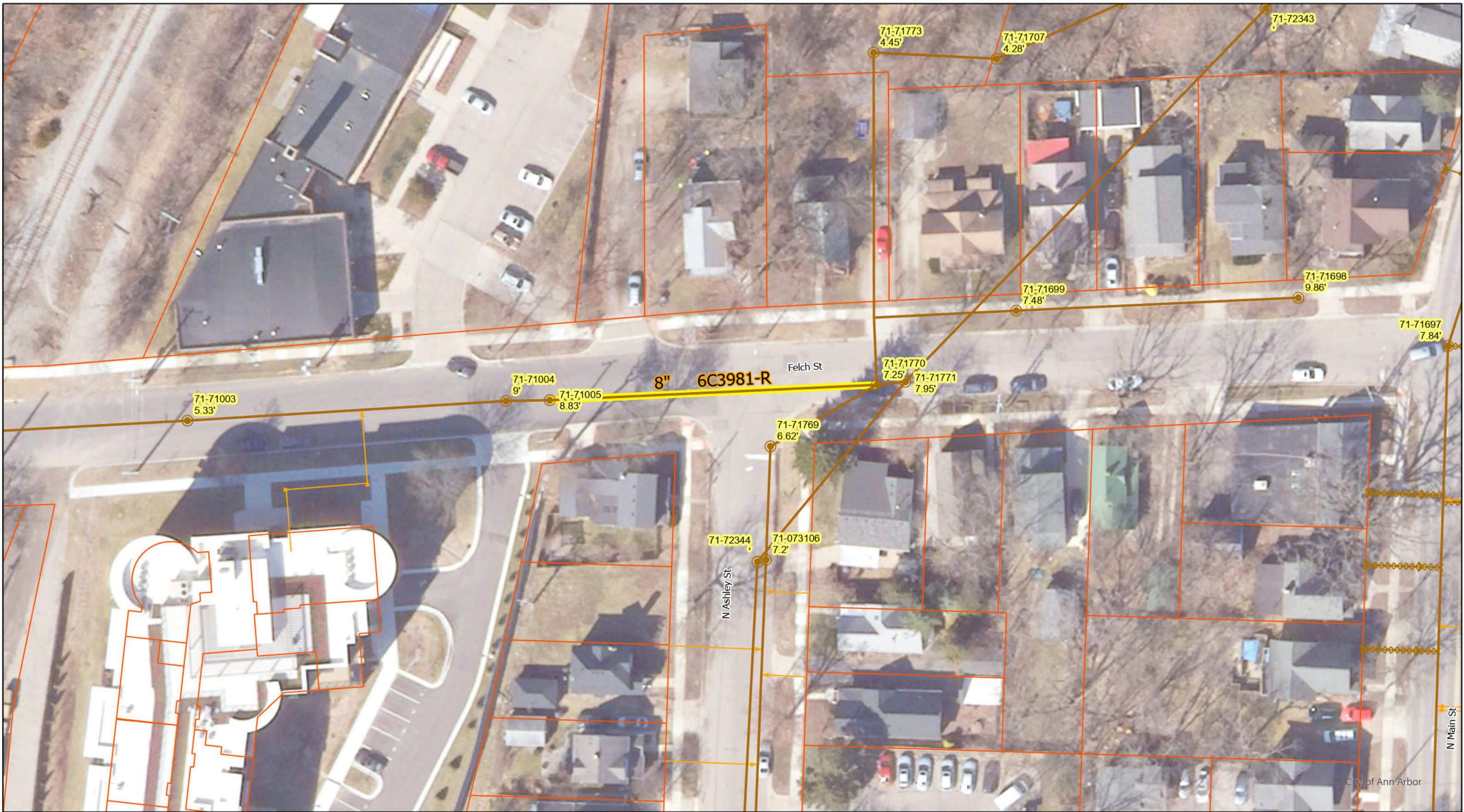
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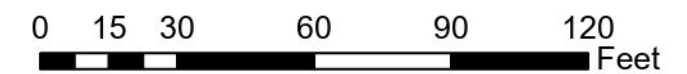
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DATE

8/4/23



Felch St



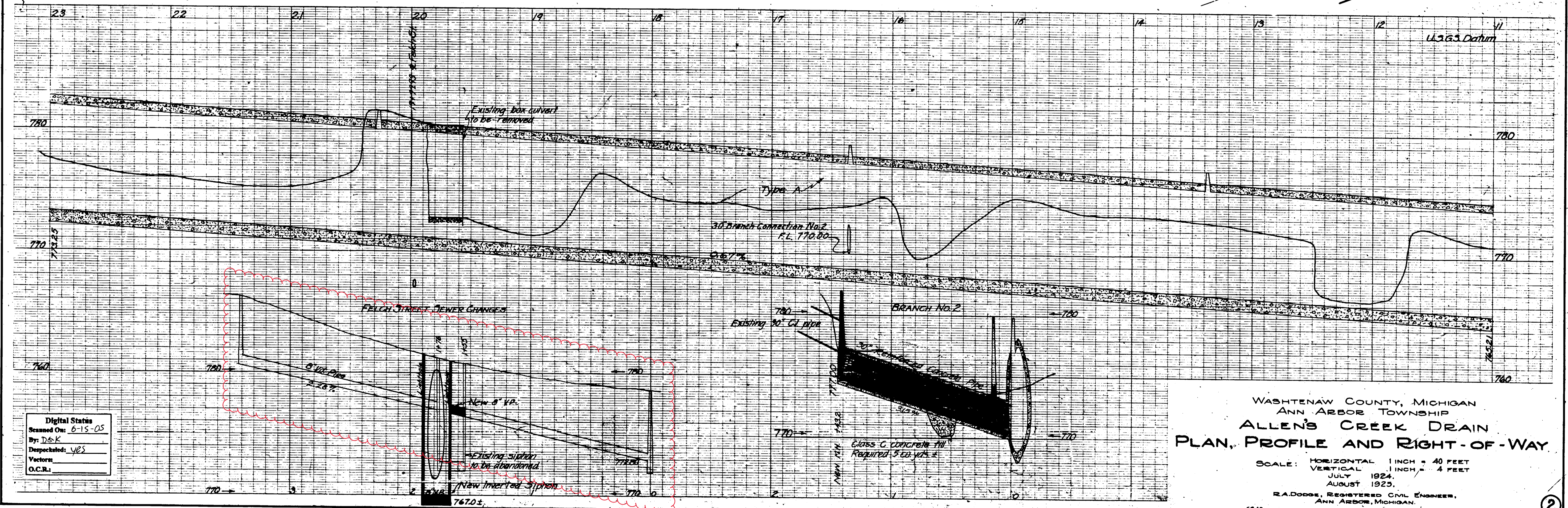
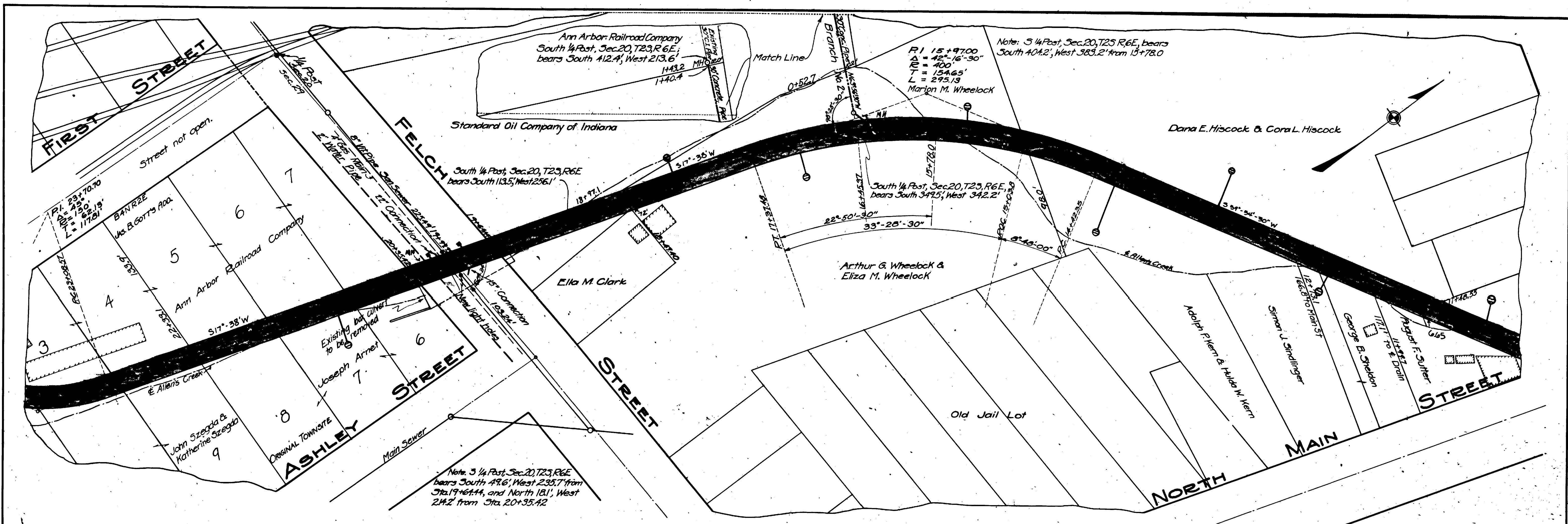
- Manhole
- Sanitary Main
- Sanitary Lateral, Abandoned
- Proposed Lining
- ⊗ Sanitary Lateral, Plugged
- Sanitary Lateral



71-XXXXX (Manhole ID)

X.XX' (Manhole Depth)

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



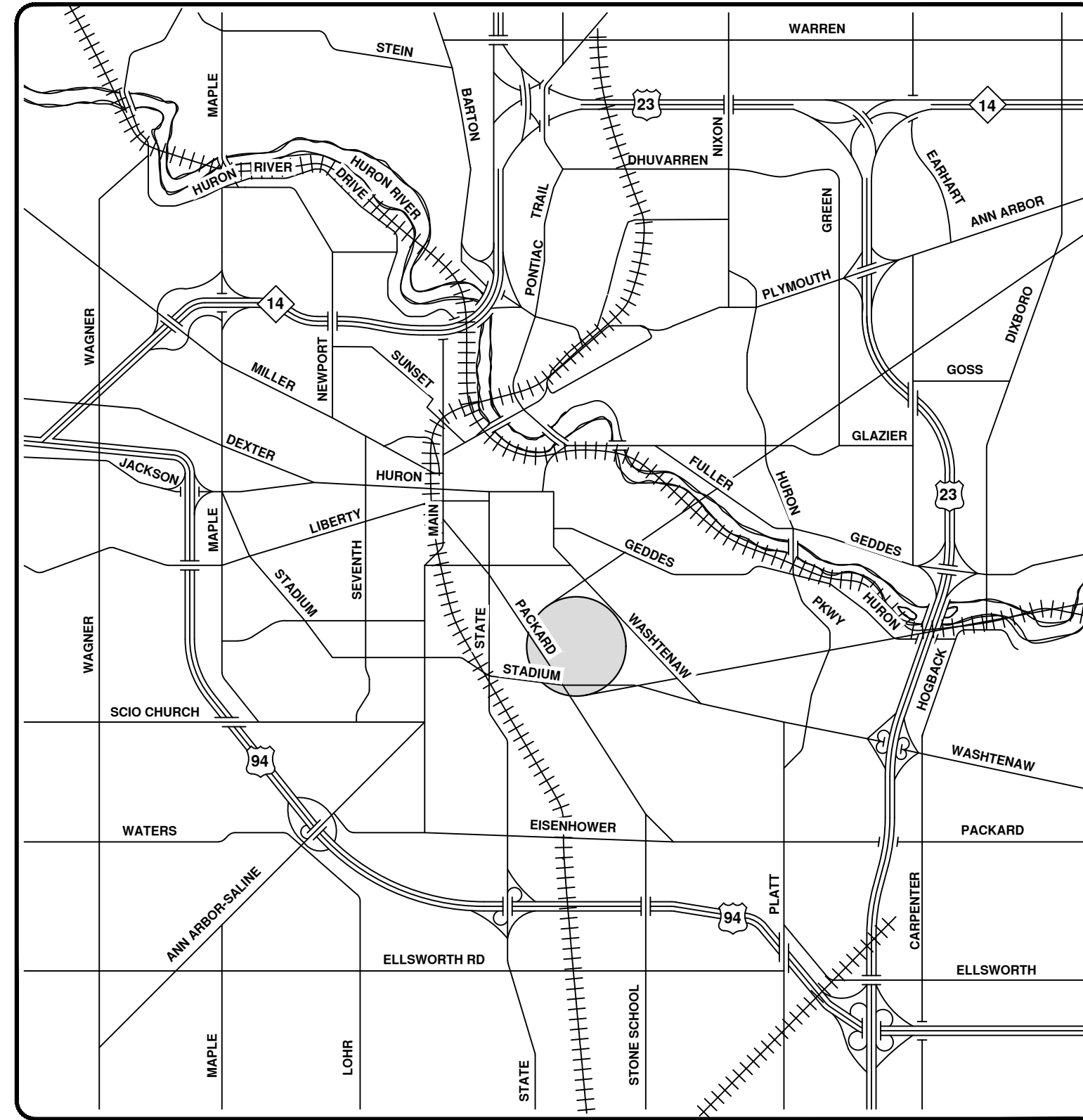
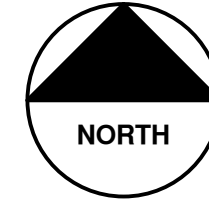
Digital Status
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 By: DSK
 Despeckled: YES
 Vectors:
 O.C.R.:

WASHTENAW COUNTY, MICHIGAN
 ANN ARBOR TOWNSHIP
ALLEN'S CREEK DRAIN
PLAN, PROFILE AND RIGHT-OF-WAY
 SCALE: HORIZONTAL 1 INCH = 40 FEET
 VERTICAL 1 INCH = 4 FEET
 JULY 1924
 AUGUST 1923
 R. A. DODGE, REGISTERED CIVIL ENGINEER,
 ANN ARBOR, MICHIGAN



2023 SEWER LINING PROJECT

GRANGER AVE



VICINITY MAP



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

R:\2023011 Sewer Lining 2023\Plan Production\2023011CovSan.dwg - _a2_standard bw.stb - Plot Date: 8/4/2023 10:55:11 AM



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	8/4/23	ARG	IK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2023011-39

SHEET No.

39 OF 119



- Manhole
- Sanitary Main
- Sanitary Lateral
- Proposed Lining

Granger Ave

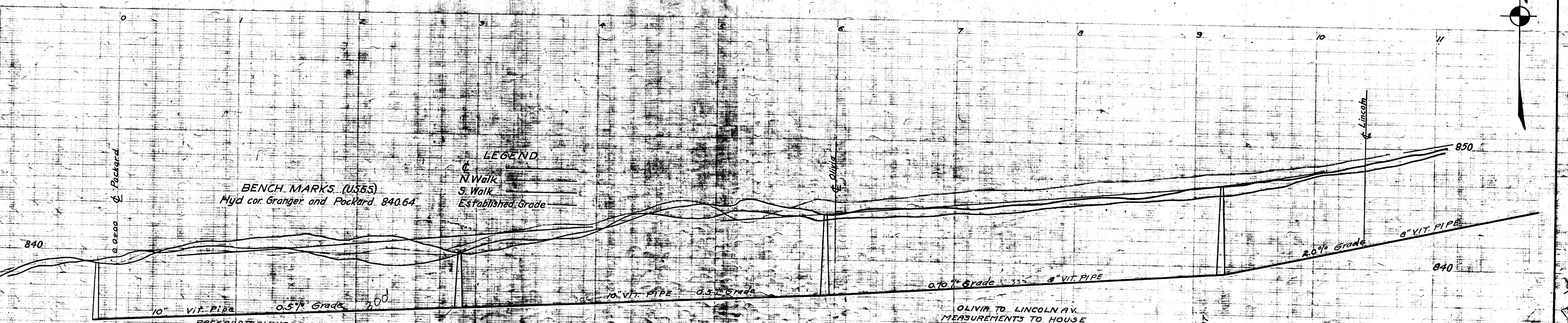
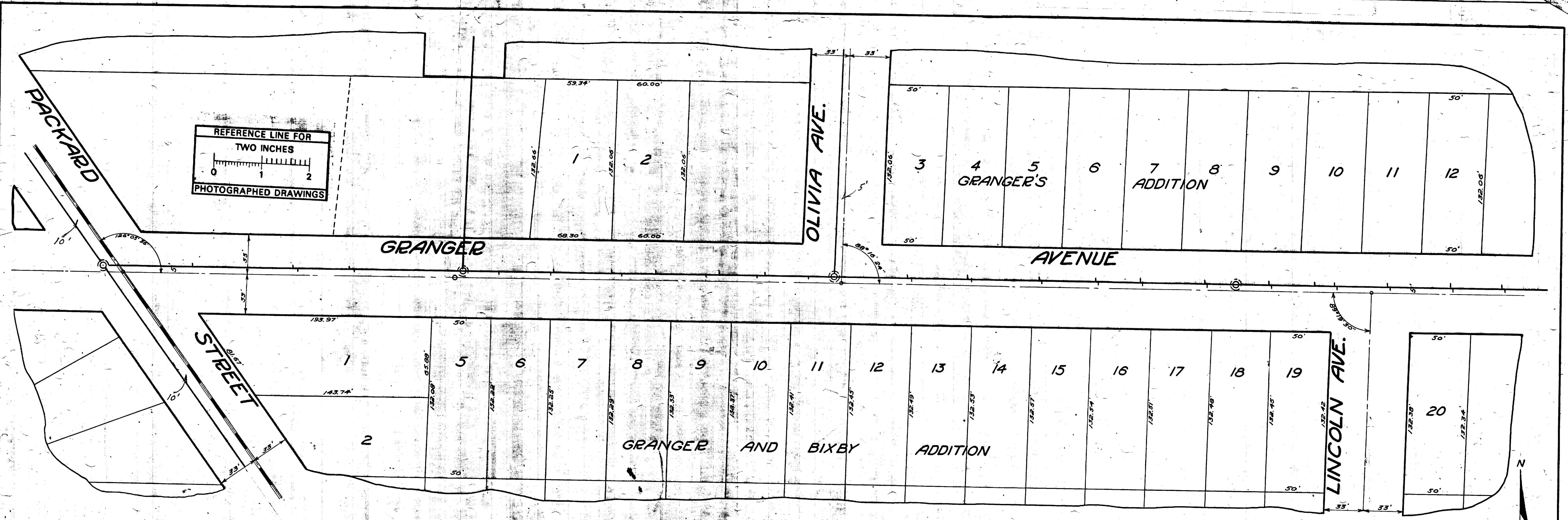


71-XXXXX (Manhole ID)

X.XX' (Manhole Depth)

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PACKARD TO OLIVIA MEASUREMENTS TO HOUSE CONNECTIONS

300 M.H.

NORTH	SOUTH
74.2	163.0
103.7	203.6
203.6	280.0
375.1	330.3
424.3	373.1
480.3	432.0
513.0	502.5
551.6	585.5
	641.00 M.H.

OLIVIA TO LINCOLN AV. MEASUREMENTS TO HOUSE CONNECTIONS

0" Manhole at Olivia Av.

NORTH	SOUTH
69.5	64.6
111.0	115.0
171.0	173.0
217.2	219.2
255.0	257.0
308.0	311.4
	329.4 M.H.
417.0	364.2
467.3	419.0
513.7	463.3
558.5	513.7
	558.5

Digital Status

Scanned On: 8-27-04

By: DGK

Despeckled: Yes

Vectors:

O.C.R.:

SHEET No. 138

INDEX No. 817

SHELF No. 6

SIZE C

SUB No. 201

Drawn by

Traced by Person

Checked by

CITY ENGINEER'S OFFICE

ANN ARBOR, MICH.

PLAN AND PROFILE

OF

SANITARY SEWER

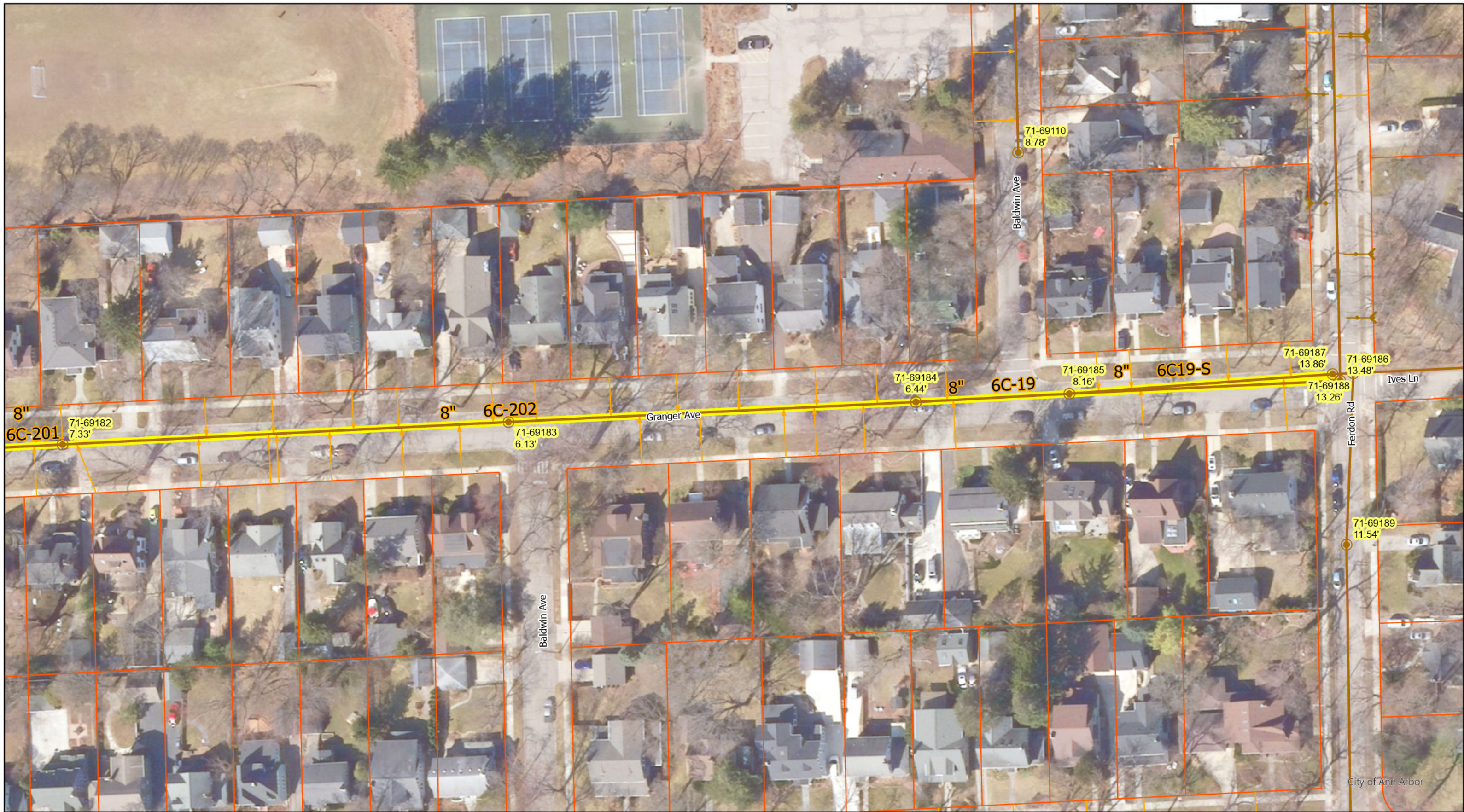
GRANGER AVE.

PACKARD ST TO LINCOLN AVE.

Manley Osgood, City Engineer.

1917

Scales Plan: 1" = 40' Profile: 1" = 40'



8"
6C-201

71-69182
7.33'

8"
6C-202

71-69183
6.13'

Granger Ave

71-69184
6.44'

8"
6C-19

71-69185
8.16'

8"
6C19-S

71-69187
13.86'

71-69186
13.48'

71-69188
13.26'

Ives Ln

Fardon Rd

71-69189
11.54'

City of Ann Arbor

Manhole

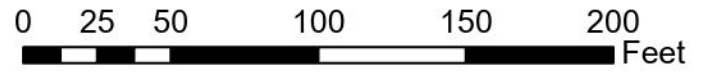
Sanitary Main

Sanitary Lateral, Abandoned

Sanitary Lateral

Proposed Lining

Granger Ave



71-XXXXX (Manhole ID)

X.XX' (Manhole Depth)

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Measurements to
house connections
0' Nly M.H. at Ferdon + Granger

73 N	75.5
75.5	77.5
124.4	126.4
174.4	176.5
219.5	221.3

2227 M.H. where sewer turns N.

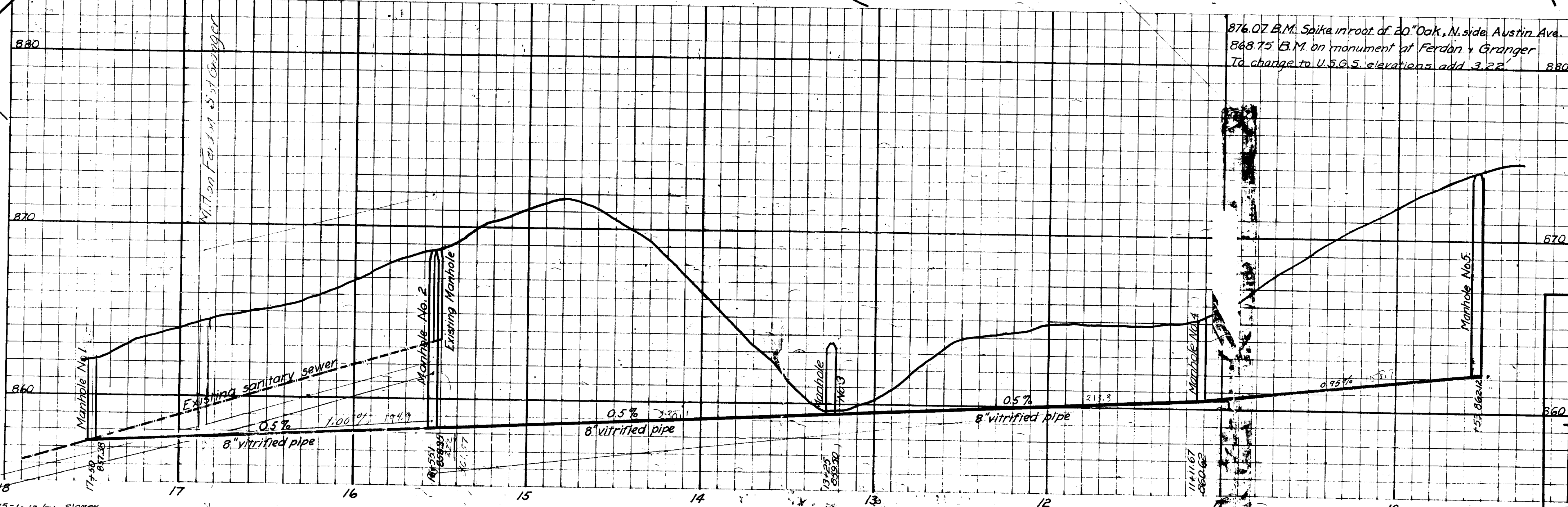
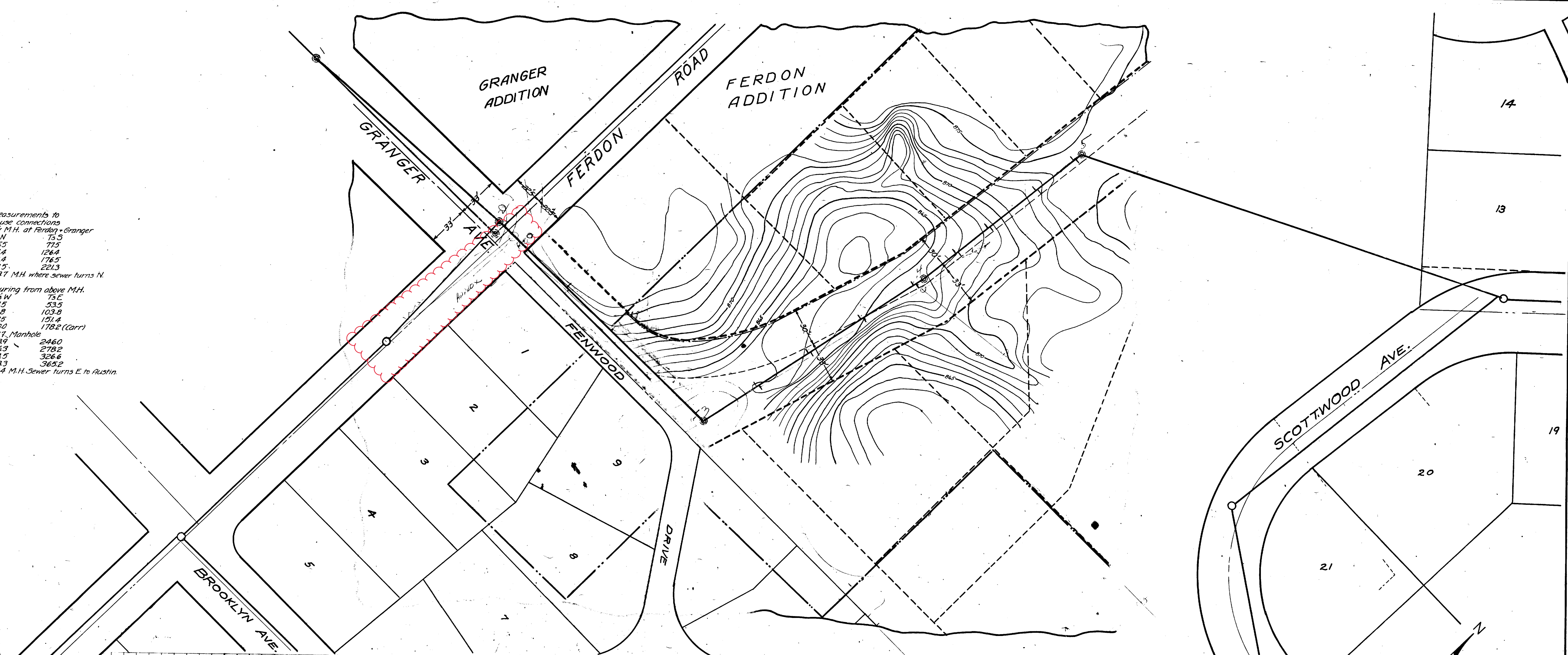
Measuring from above M.H.

73 W	75.5
51.5	53.5
101.8	103.8
149.5	151.4
200.0	178.2 (Carr)

2127 Manhole

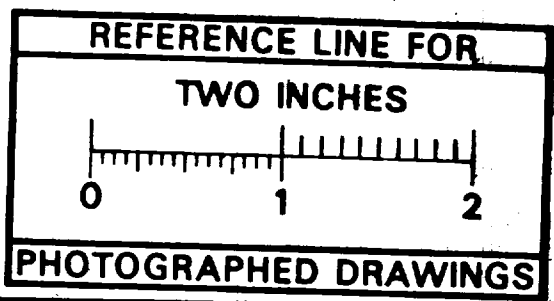
243.9	246.0
276.3	278.2
324.5	326.6
363.3	365.2

3714 M.H. Sewer turns E to Austin.



876.07 B.M. Spike in root of 20" Oak, N. side Austin Ave. (City Datum)
 868.75 B.M. on monument at Ferdon + Granger
 To change to U.S.G.S. elevations add 3.22'

859.55
 3.22
 862.77



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

SHEET No. 34
 INDEX No. 461
 SHELF No. 6
 SIZE C
 860 SUB No. 19

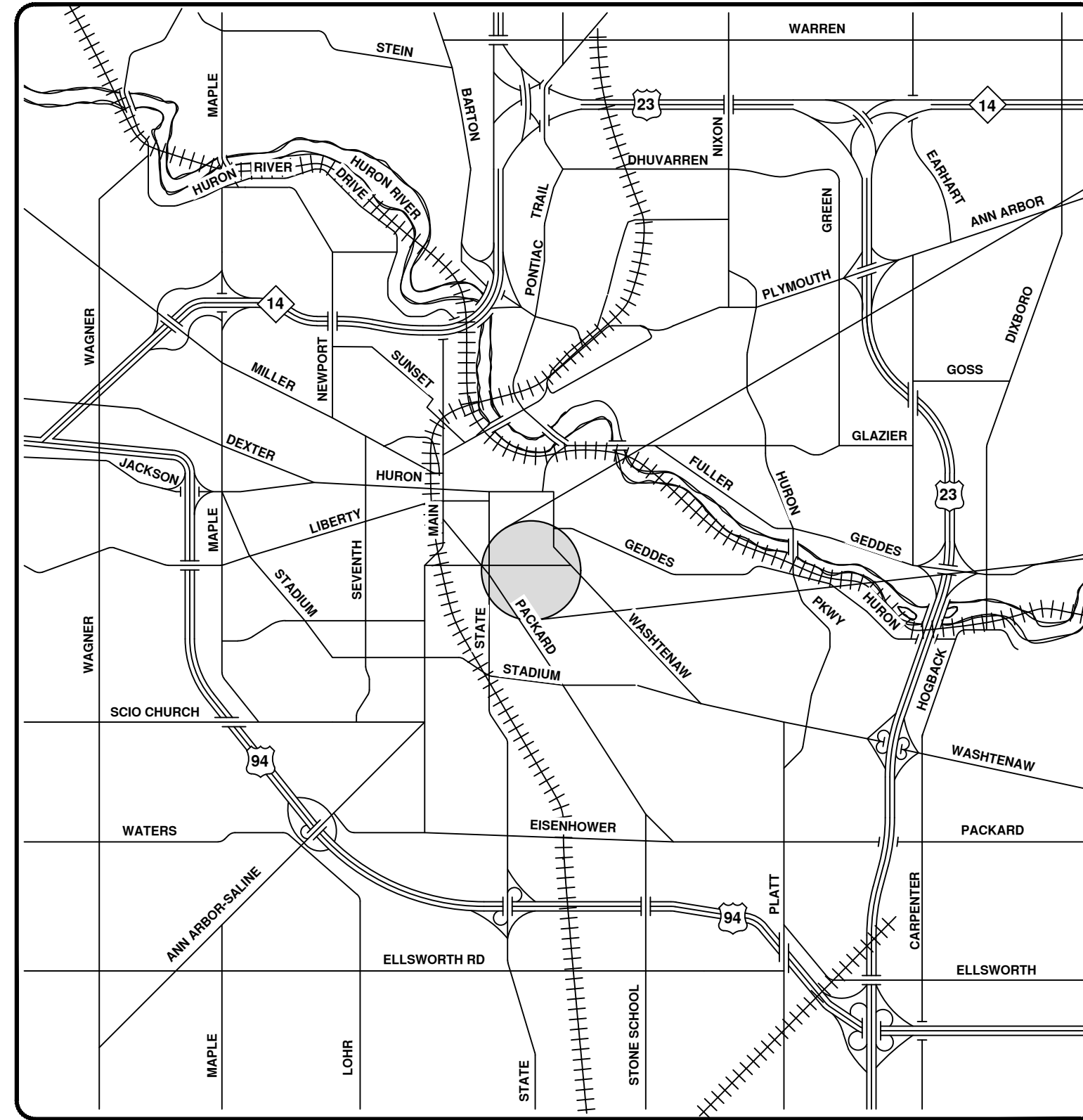
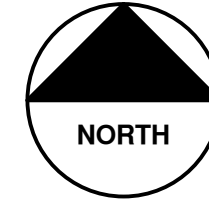
CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
 PLAN AND PROFILE
 OF SANITARY SEWER ON
 PRIVATE LAND
 FROM 1200' WEST OF WASHTENAW TO GRANGER
AUSTIN AV. SANITARY SEWER
 DISTRICT No. 55
 Manley Osgood, City Engineer
 1913-7-5
 SCALES: Plan-1"=40'; Profile: Hor.-1"=40', Vert.-1"=4'
 Three Sheets. Sheet No. 3

Corrected to Final Measurements 1913-1-12 by Slamm.



2023 SEWER LINING PROJECT

HILL ST & CHURCH ST



VICINITY MAP



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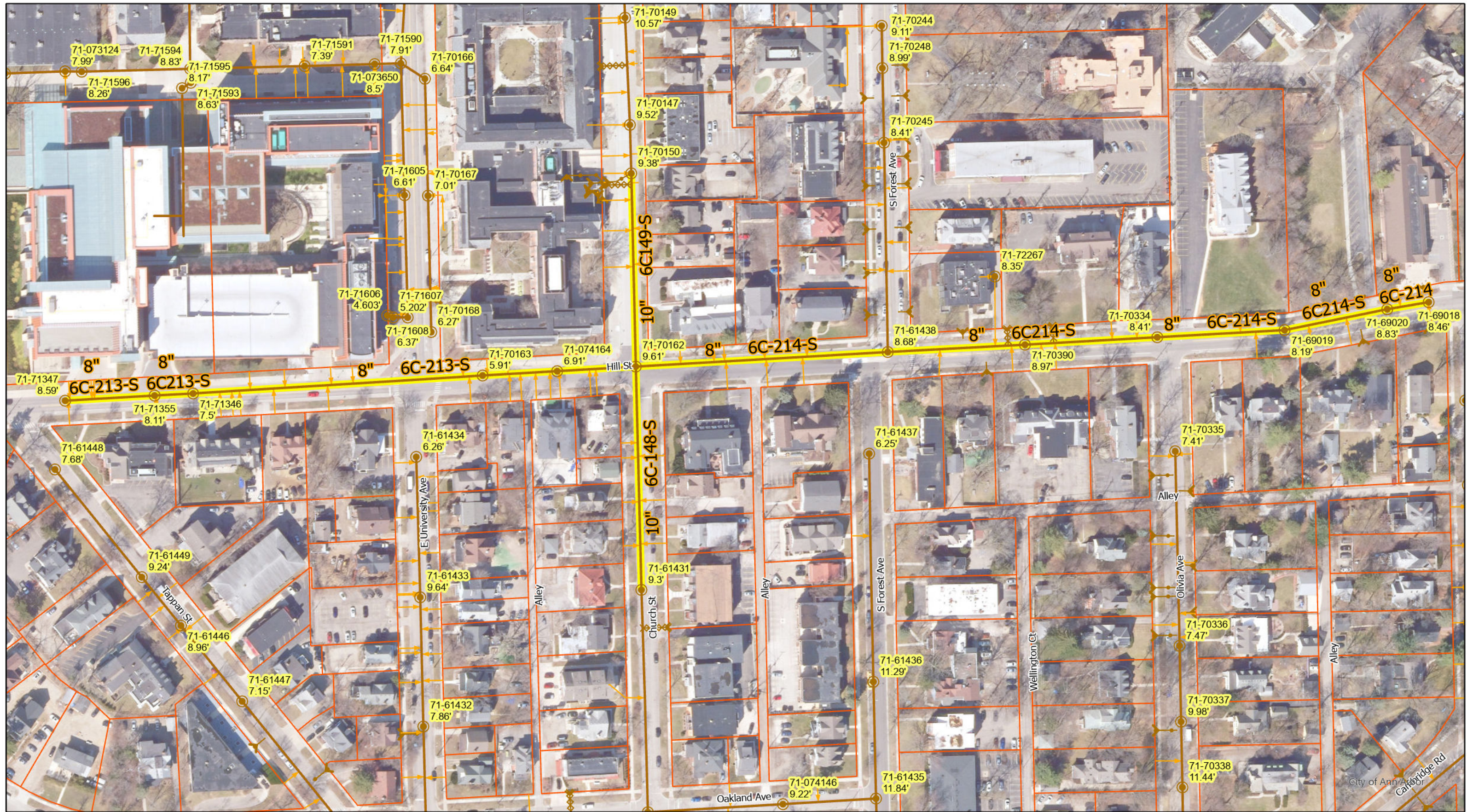
CITY OF ANN ARBOR
 PUBLIC SERVICES
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2023011-45

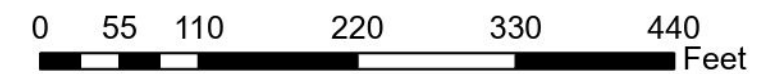
SHEET No.
 45 OF 119



- Manhole
- Sanitary Main
- Sanitary Lateral, Abandoned
- Proposed Lining
- Sanitary Lateral, Plugged
- Sanitary Lateral

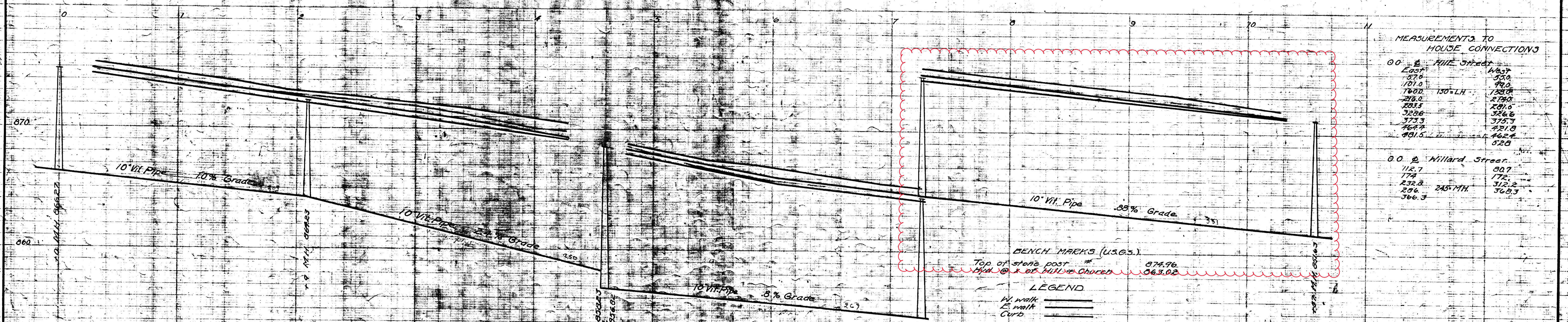
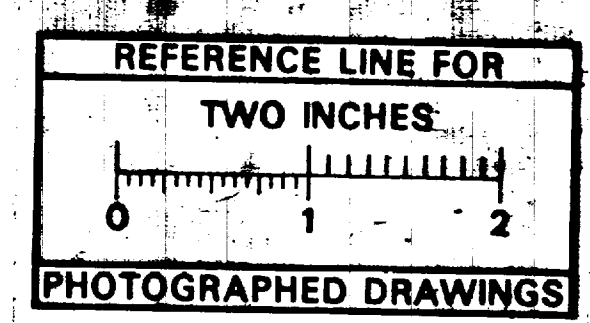
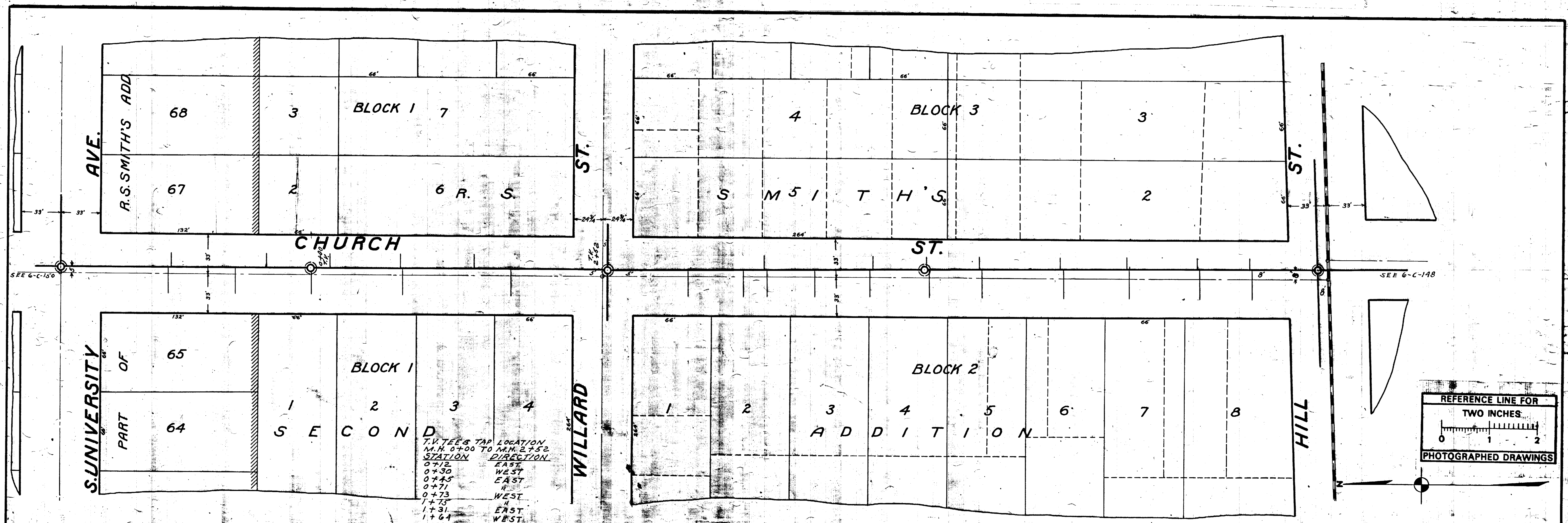
71-XXXXX (Manhole ID)
 X.XX' (Manhole Depth)

Hill St & Church St



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MEASUREMENTS TO HOUSE CONNECTIONS

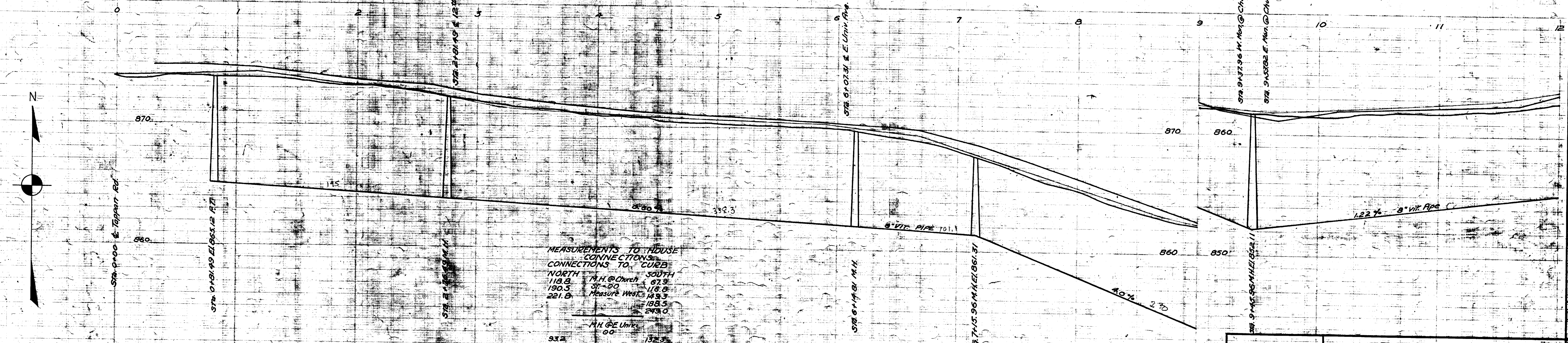
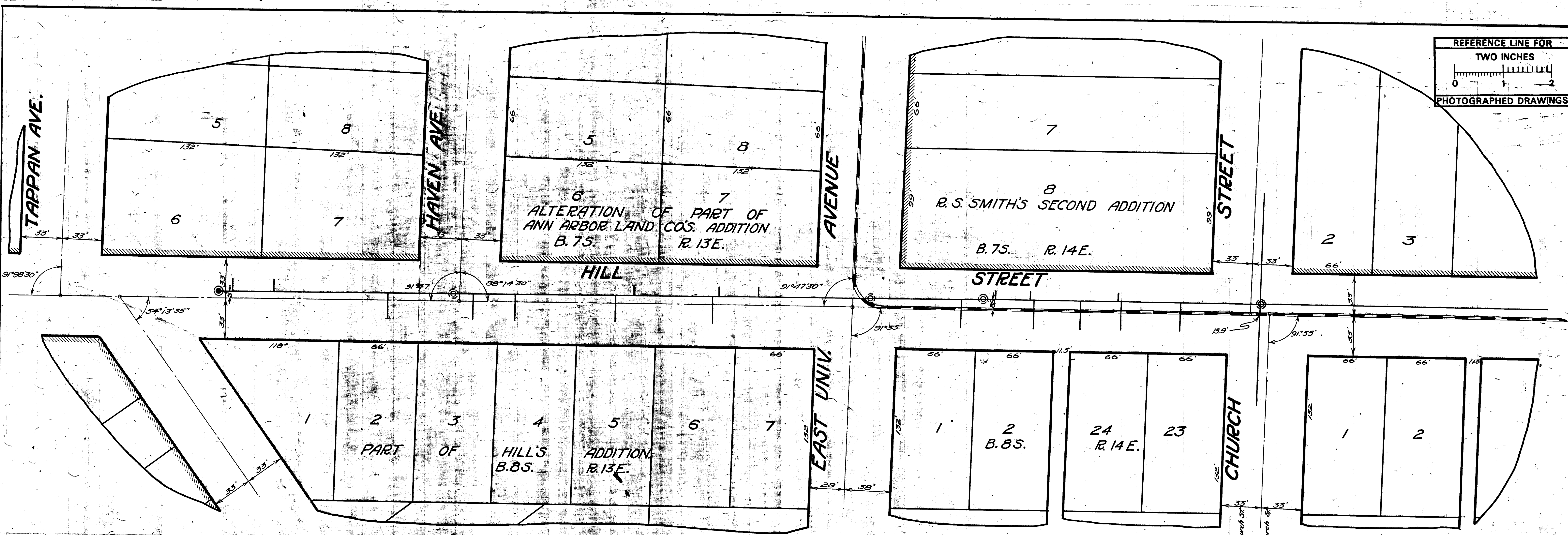
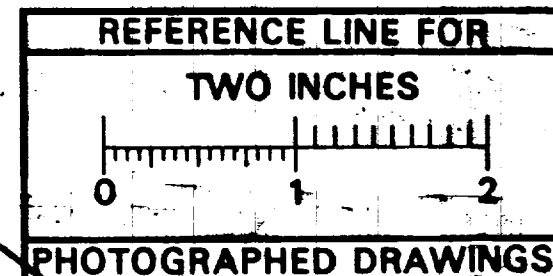
O.O. of Hill Street	
East	1487
570	550
1010	990
1400	1380
2000	2790
2035	2810
3286	3266
3733	3753
4677	4218
4915	4624
	520

O.O. of Willard Street	
112.7	907
174	172
232.8	312.2
296	369.3

BENCH MARKS (U.S.G.S.)
 Top of stone post 874.96
 Hd. of x of Miller Church 863.02

LEGEND
 W. Walk
 C. Walk
 Curb

SHEET No. 66	CITY ENGINEER'S OFFICE ANN ARBOR, MICH. PLAN AND PROFILE OF SANITARY SEWER CHURCH ST. S. UNIVERSITY AVE. TO HILL ST. Manley Osgood, City Engineer 1917 Scales-Plan 1"=40' Profile-Vert. 1"=40'
INDEX No. 764	
SHELF No. 6	
SIZE C	
SUB No. 149	
Drawn by	
Traced by	
Checked by	



MEASUREMENTS TO HOUSE
CONNECTIONS TO CURB

NORTH	118.8	SOUTH	67.9
190.5		118.8	
221.8		148.3	
		188.5	
		243.0	

M.H. @ Univ
00

93.2	134.5
125.7	212.3
194.0	293.0
	330.0

M.H. @ Church St
10

149.0	54.2
193.6	

BENCH MARKS (U.S.G.S.)
Hyd. Cor. Hill # 12 of Sta. Elev. 873.02
20 of Sta. Elev. 863.02

LEGEND
S. WALK
N. WALK

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

SHEET No. 152
INDEX No. 829
SHELF No. 6
SIZE C
SUB No. 213

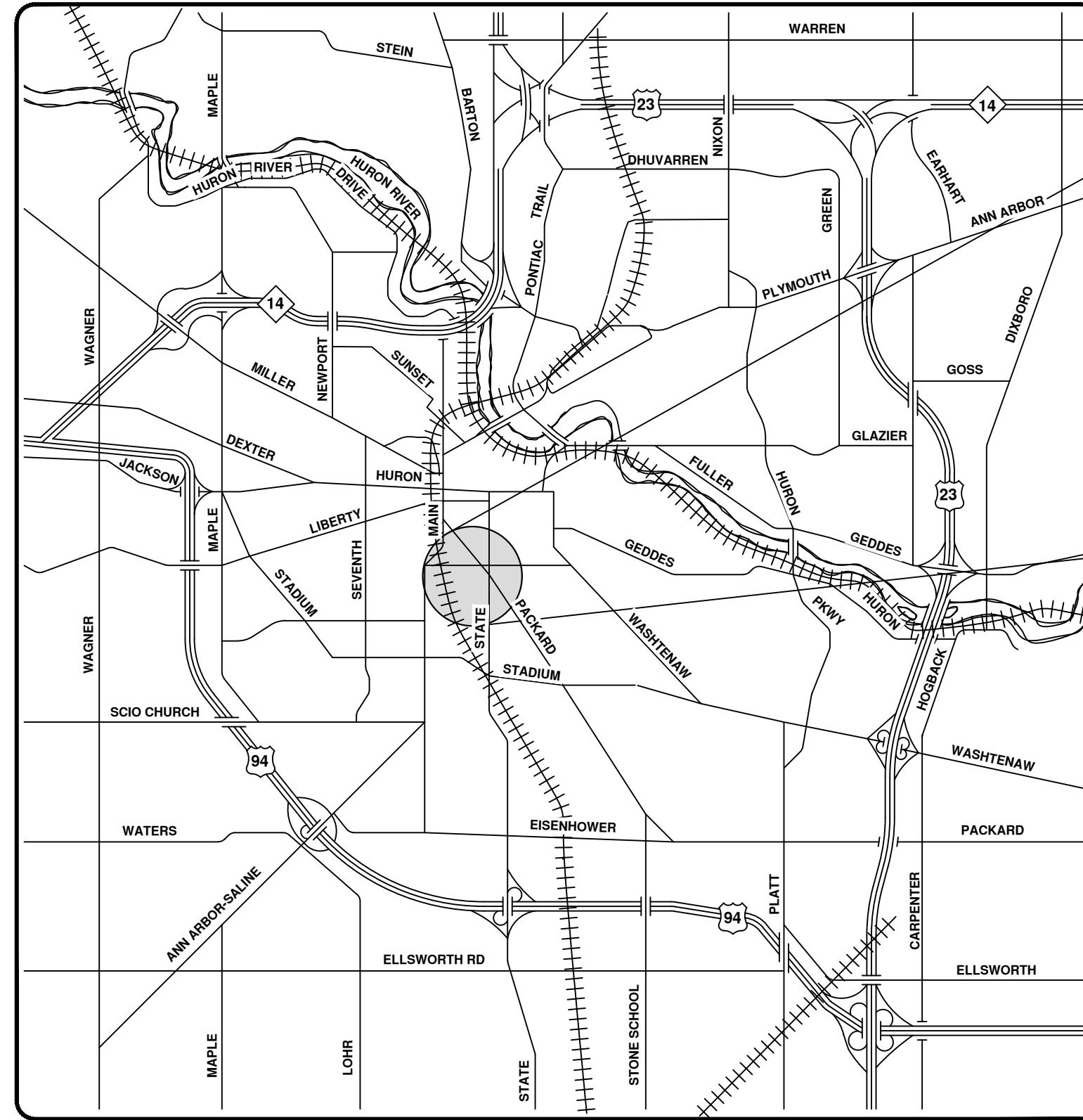
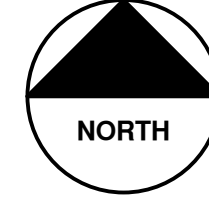
Drawn by
Traced by Eimer
Checked by J. J.

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
HILL ST.
INGALLS ST. TO CHURCH ST.
Manley Osgood, City Engineer
1917
Scale-Plan 1"=40' Profile 1/2"=10' Vert. 1"=4'



2023 SEWER LINING PROJECT

MARY ST



VICINITY MAP



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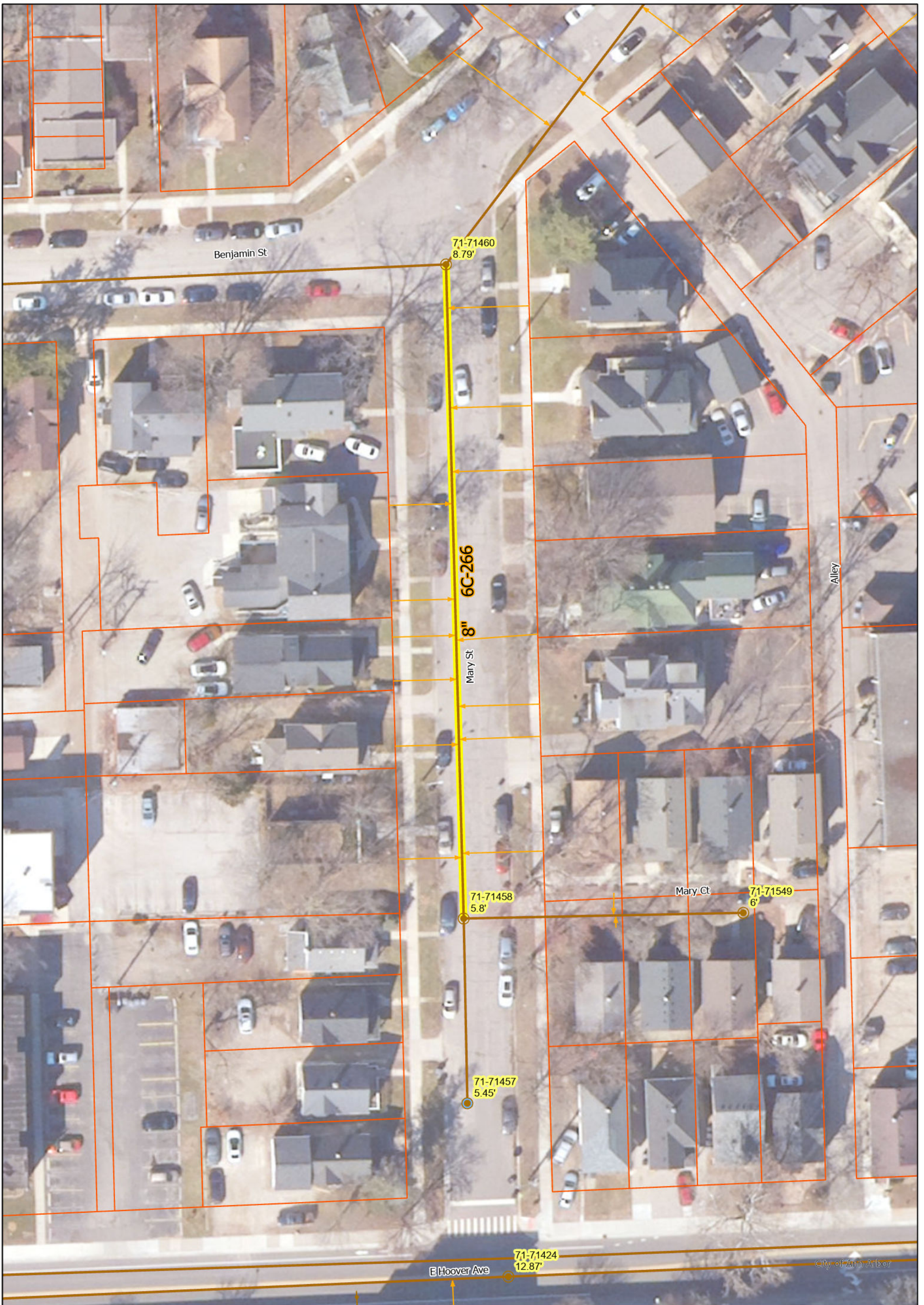


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2023011-51

SHEET No.

51 OF 119



Mary St

- Manhole, Flush Tank
- Manhole
- Sanitary Main
- Sanitary Lateral, Abandoned
- Sanitary Lateral
- Proposed Lining

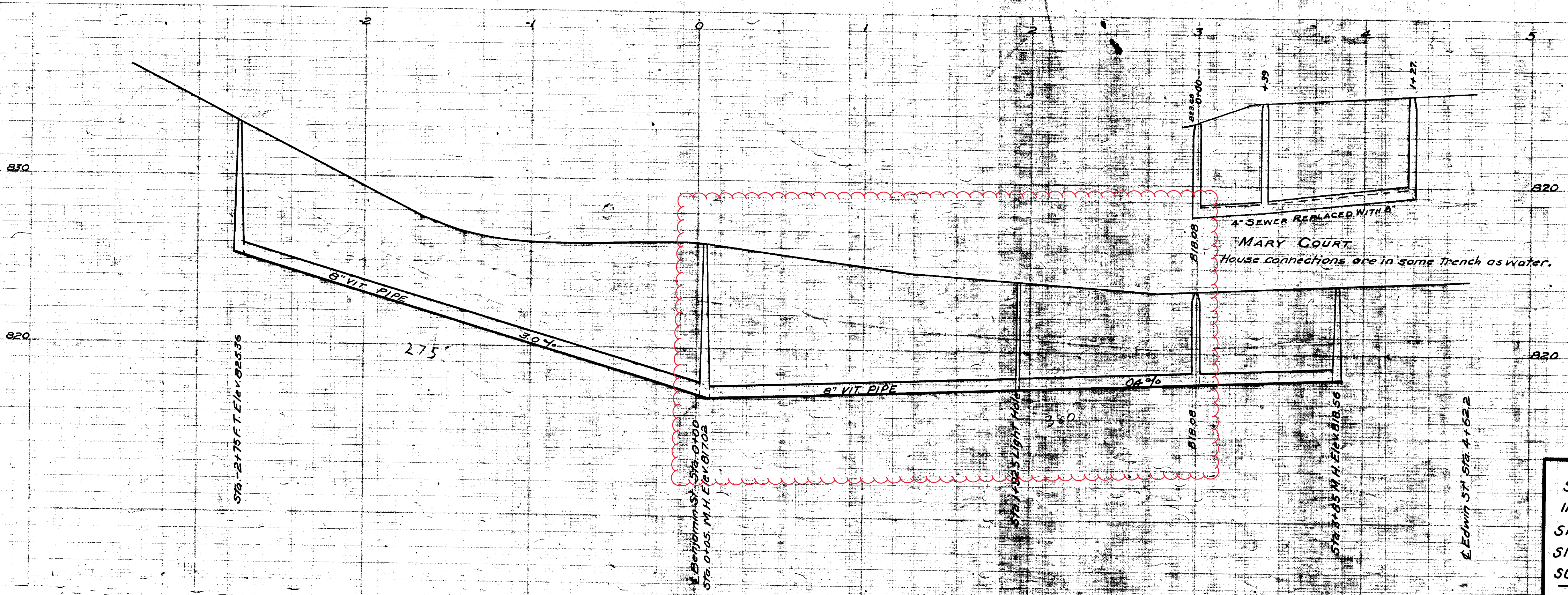
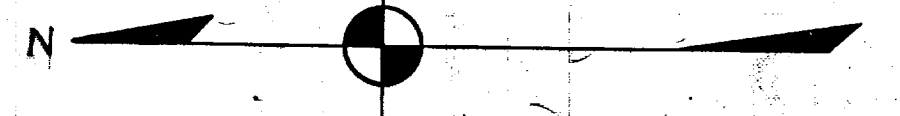
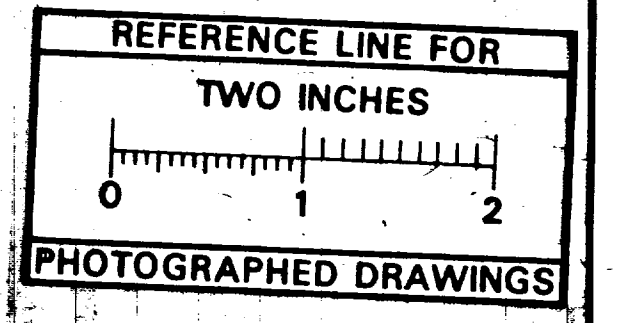
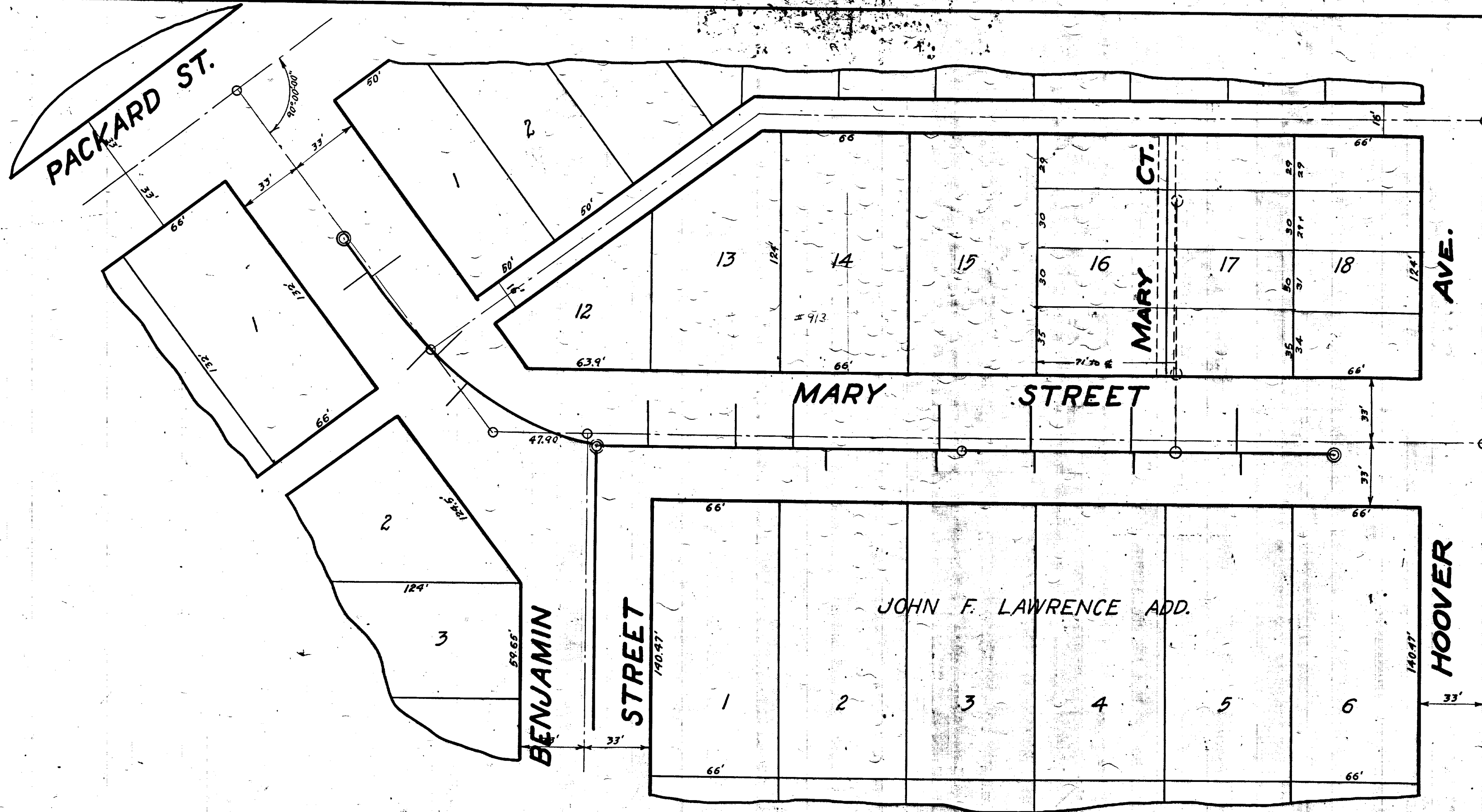
71-XXXXX (Manhole ID)

X.XX' (Manhole Depth)



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MEASUREMENTS TO HOUSE CONNECTIONS

WEST	SOUTH RUN	EAST
118.8	M.H. @	26.5
174.8	BENJAMIN-82	71.5
225.0	BENJAMIN-82	101.0
276.1	L.H. @ 1875	176.7
331.0		223.0
		274.0
		323.4

NE RUN	
72.8	M.H. @
97.4	BENJAMIN-80
149.6	BENJAMIN-80

Connections run to Curb.

BENCH MARKS (U.S.G.S.)
Hyd. Cor. Packard & 5th St. Elev. 835.48

Digital Status
Scanned On: 8-51-04
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

SHEET No. 213
INDEX No. 882
SHELF No. 6
SIZE C
SUB No. 266

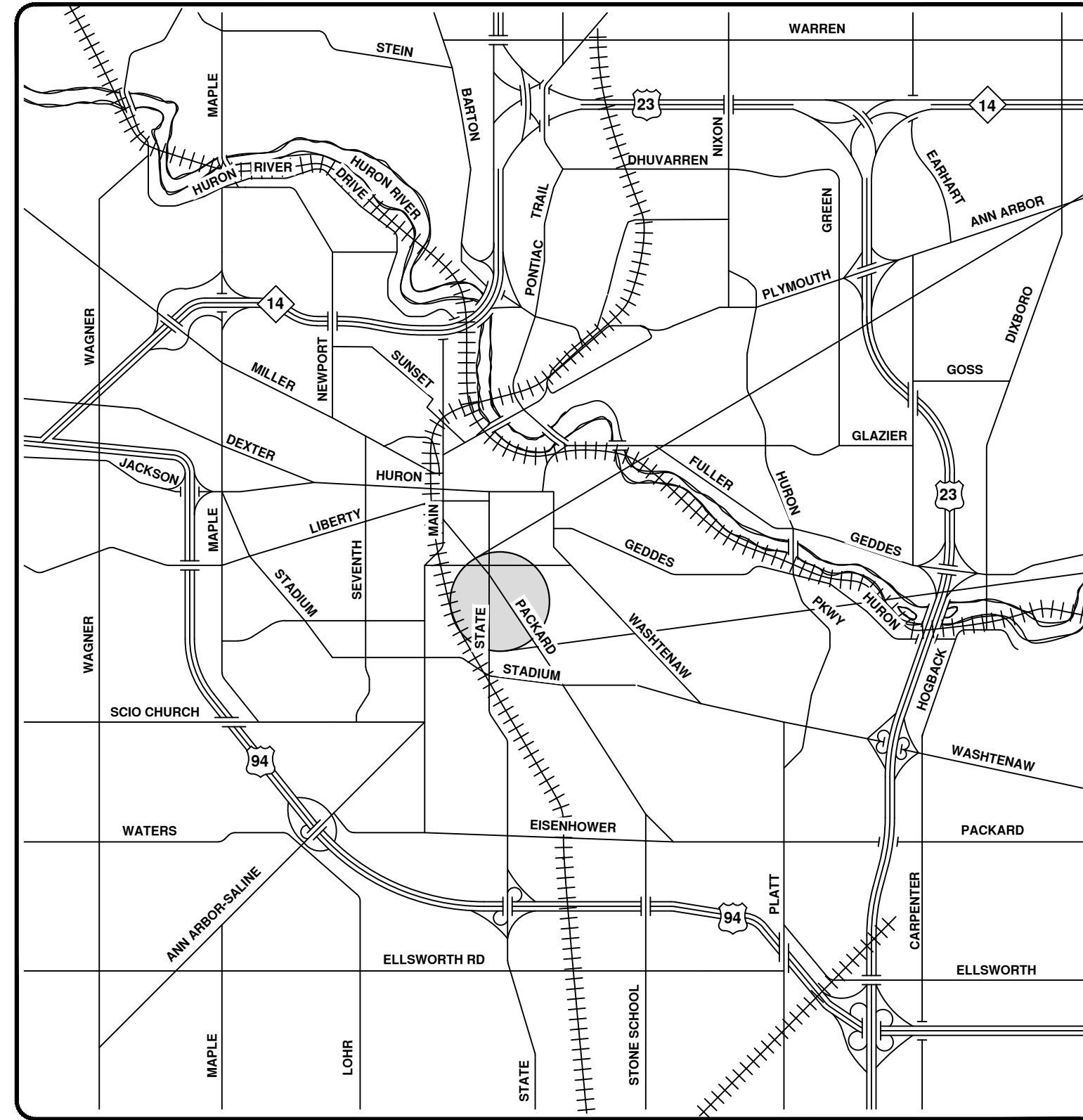
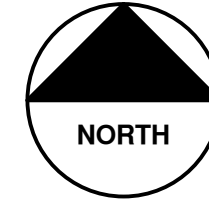
Drawn by
Traced by Hill
Checked by J.H.S.

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
MARY ST. & MARY CT.
PACKARD ST. to HOOVER AVE., MARY ST. ELY.
Manley Osgood, City Engineer.
1917
Scales - Plan 1"=40' Profile - Hor 1"=40' Ver 1"=4'

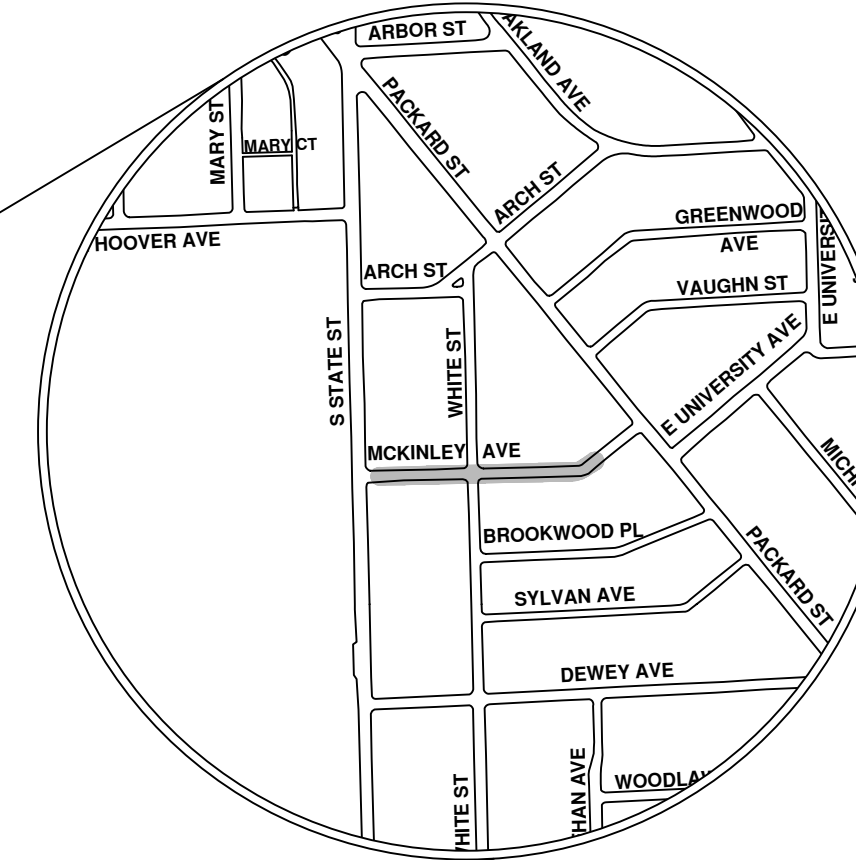


2023 SEWER LINING PROJECT

MCKINLEY AVE



VICINITY MAP



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 CITY OF ANN ARBOR PUBLIC SERVICES
 301 EAST HURON STREET, P.O. BOX 8647
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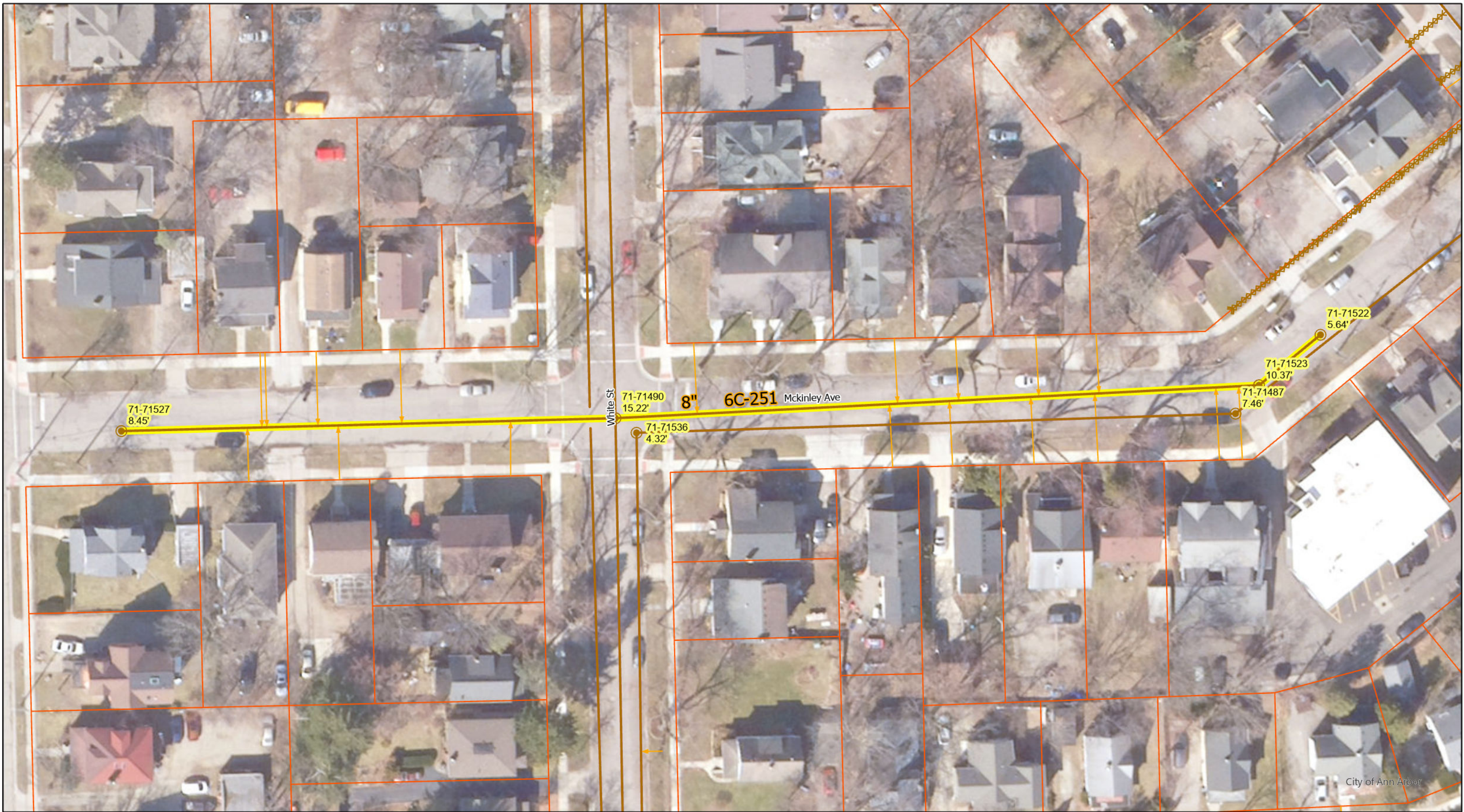


REV.	DESCRIPTION	DATE	BY	CHECKED
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 PUBLIC SERVICES
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 www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
 SCALE
 DRAWING No. 2023011-54



○ Manhole

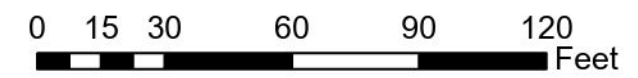
— Sanitary Main

→ Sanitary Lateral

⌘ Sanitary Lateral, Plugged

█ Proposed Lining

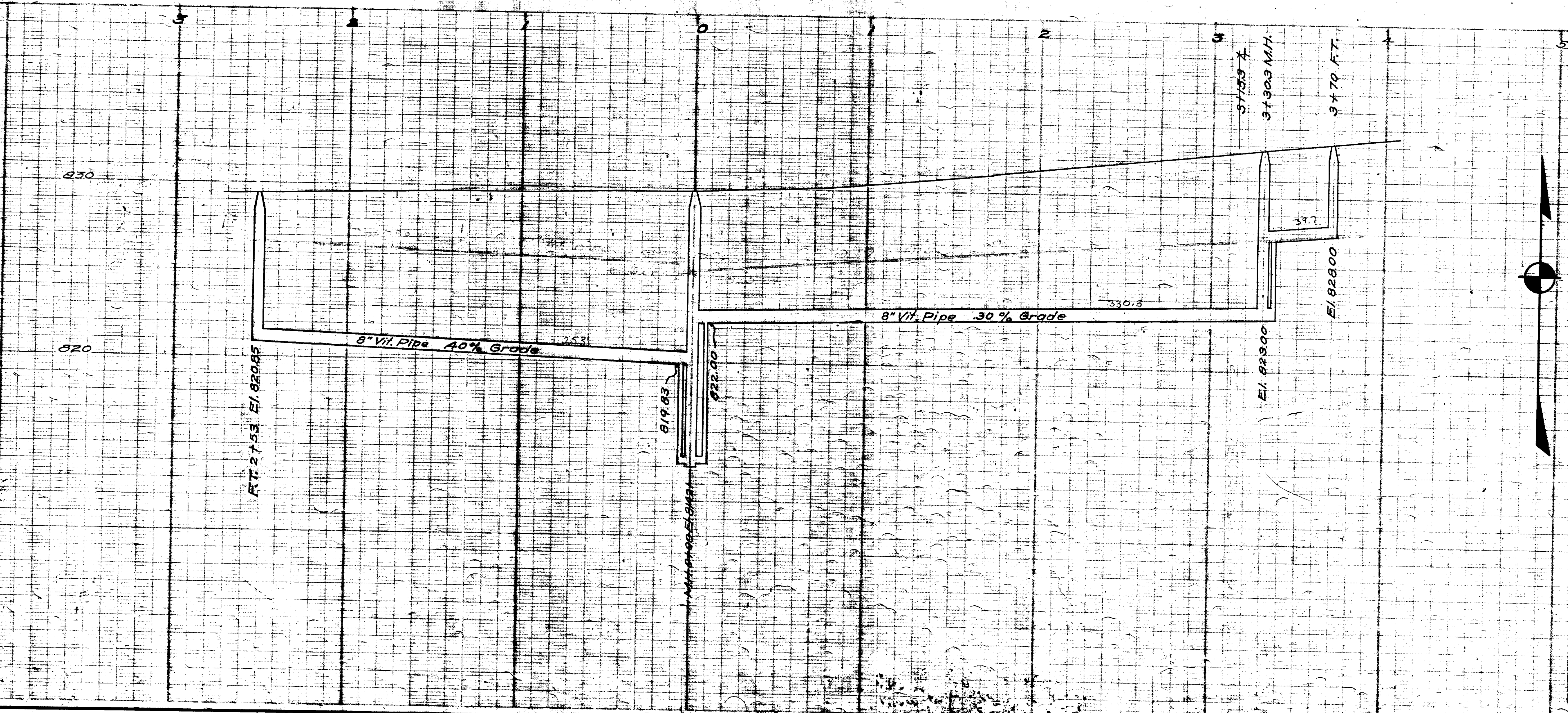
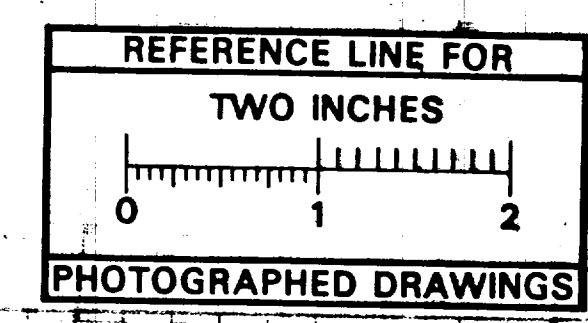
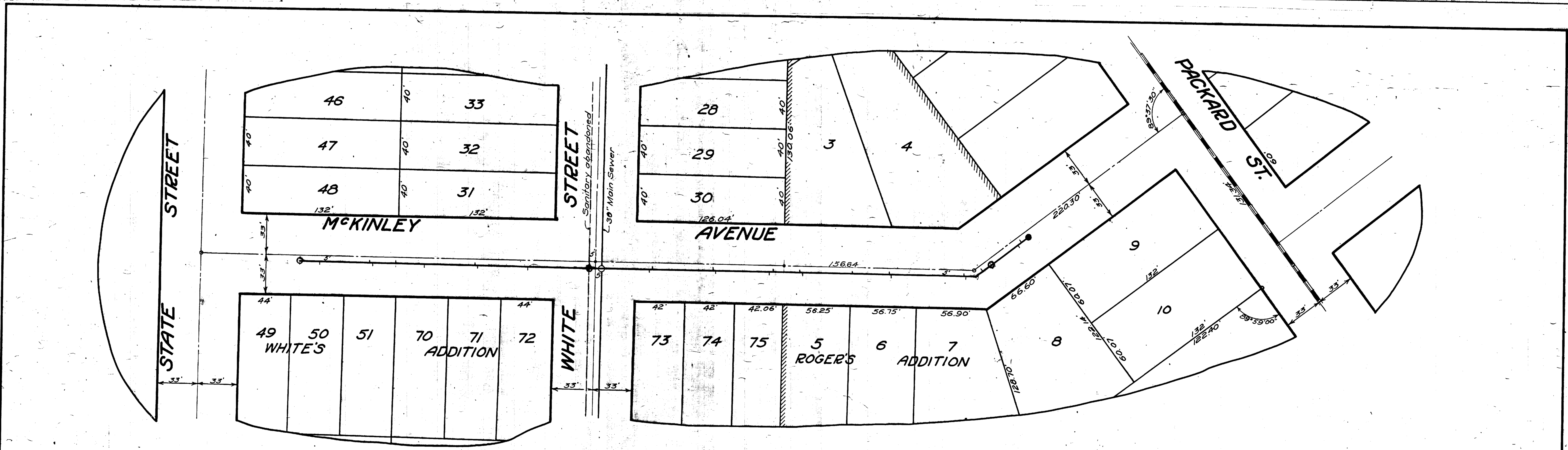
McKinley Ave



71-XXXXX (Manhole ID)

X.XX' (Manhole Depth)





MEASUREMENTS TO HOUSE CONNECTIONS 0+00 M.H. at White St.

NORTH		SOUTH	
42.4	40.0		
94.4	90.4		
142.9	140.3		
167.0	169.3		
209.6	243.0		
240.3	305.6		
303.2	322.4		
320.3	330.3 M.H.		
360.6	358.5		
370.0 FT.			
West Run		East Run	
1050	607		
192.6	1030		
	149.0		
	190.6		
	233.0		
	253.0 FT.		

SHEET No. 198
INDEX No. 867
SHELF No. 6
SIZE C
SUB No. 251

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
MCKINLEY AVE.
STATE ST. TO PACKARD ST.

Manley Osgood, City Engineer, 1917.
Rebuilt 1936
Geo. H. Sandenburgh, City Engineer
Scales-Plan 1"=40' Profile Hor. 1"=40' Vert. 1"=4'

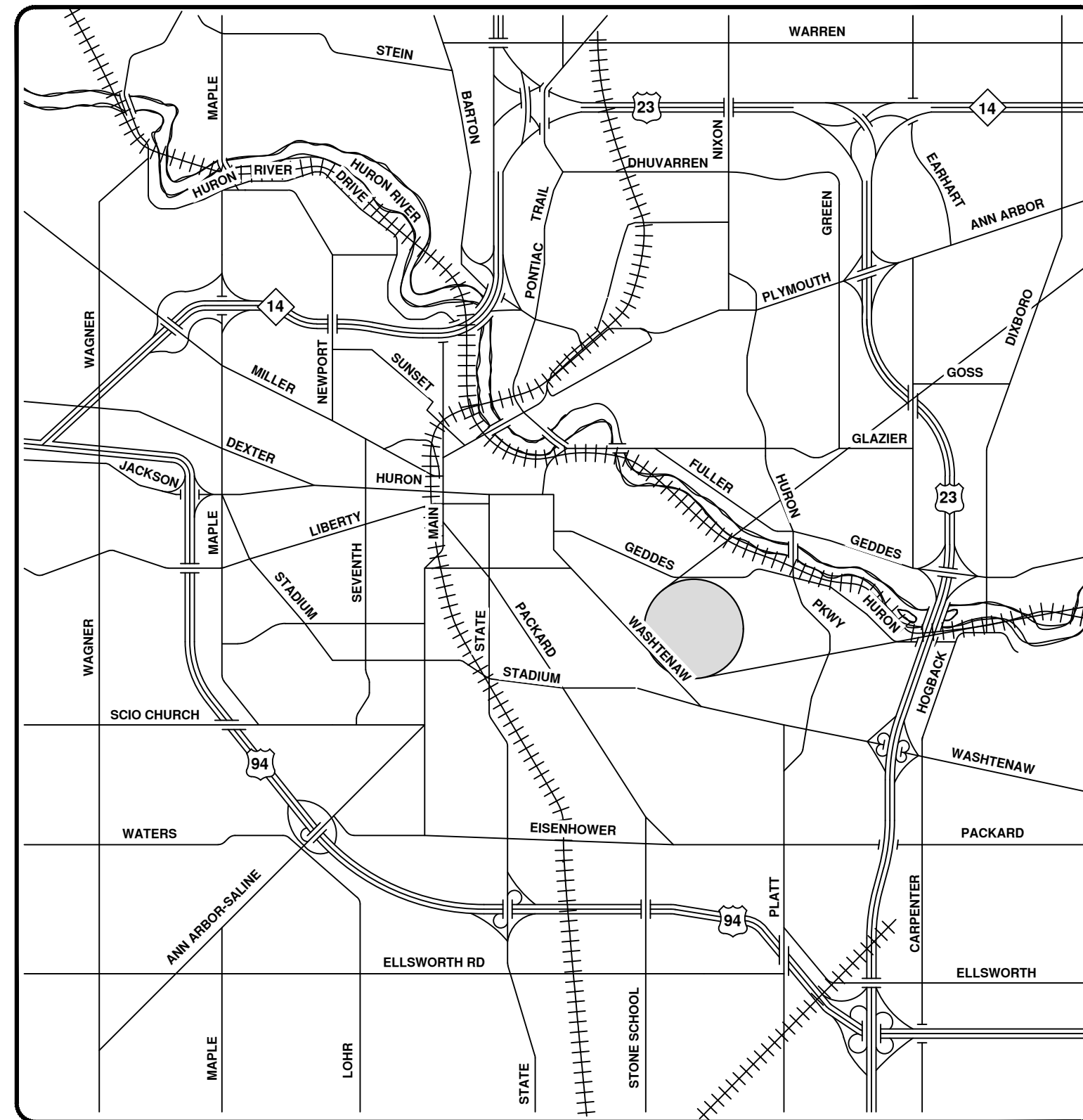
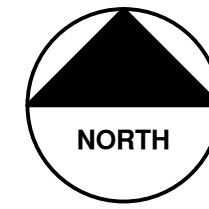
Drawn by
Traced by Eimer
Checked by JF

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

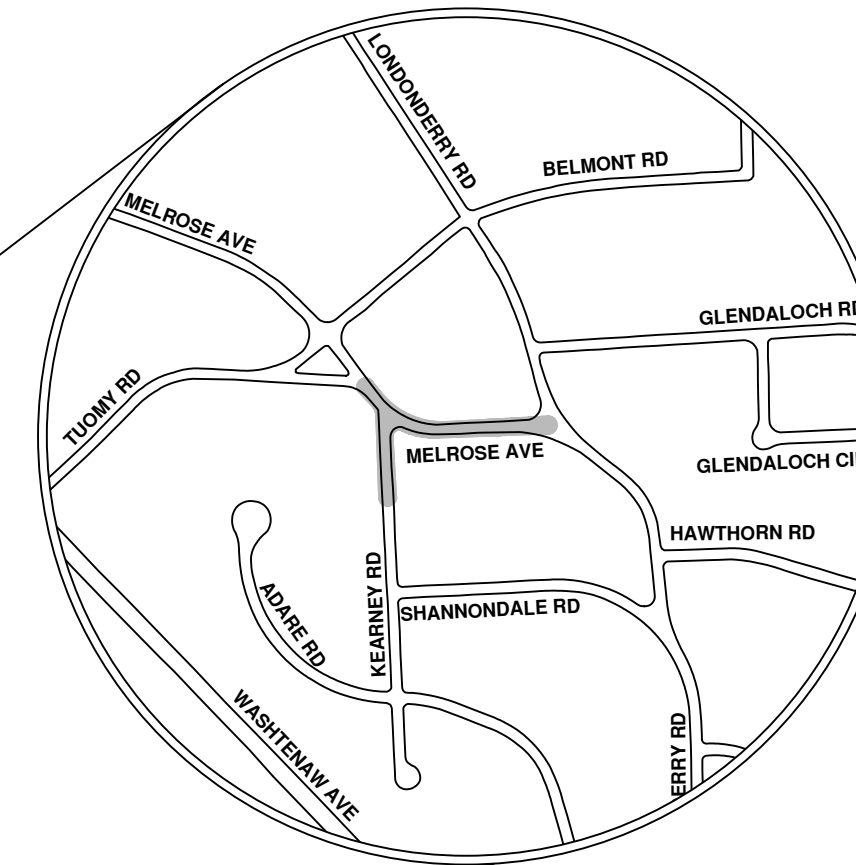


2023 SEWER LINING PROJECT

MELROSE AVE & KEARNEY RD



VICINITY MAP



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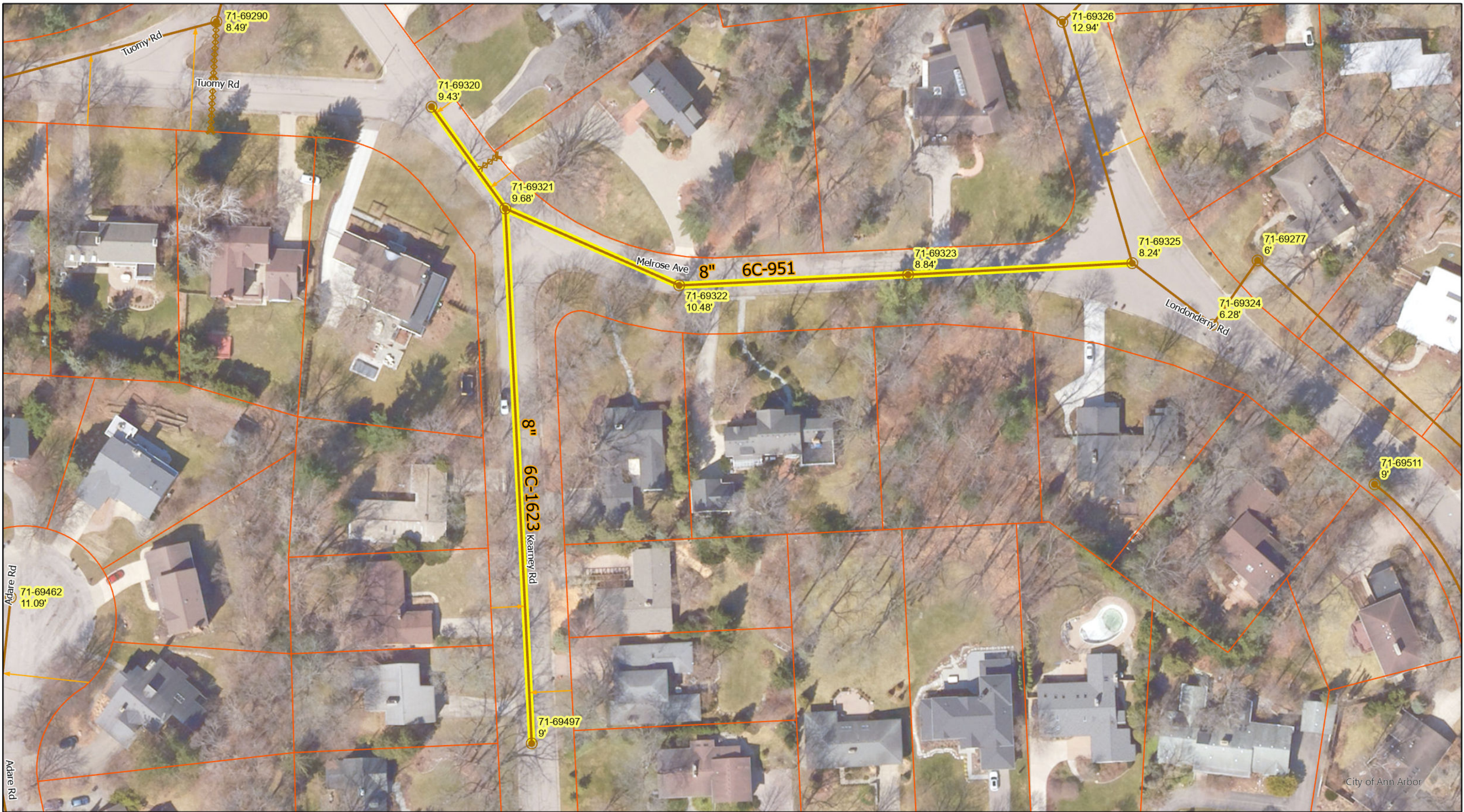


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2023011-57

SHEET No.

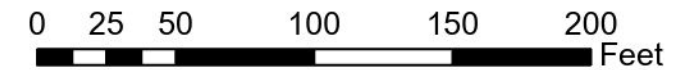
57 OF 119

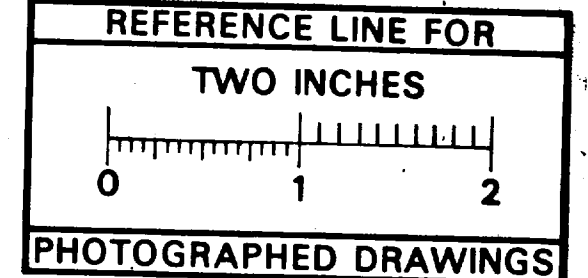
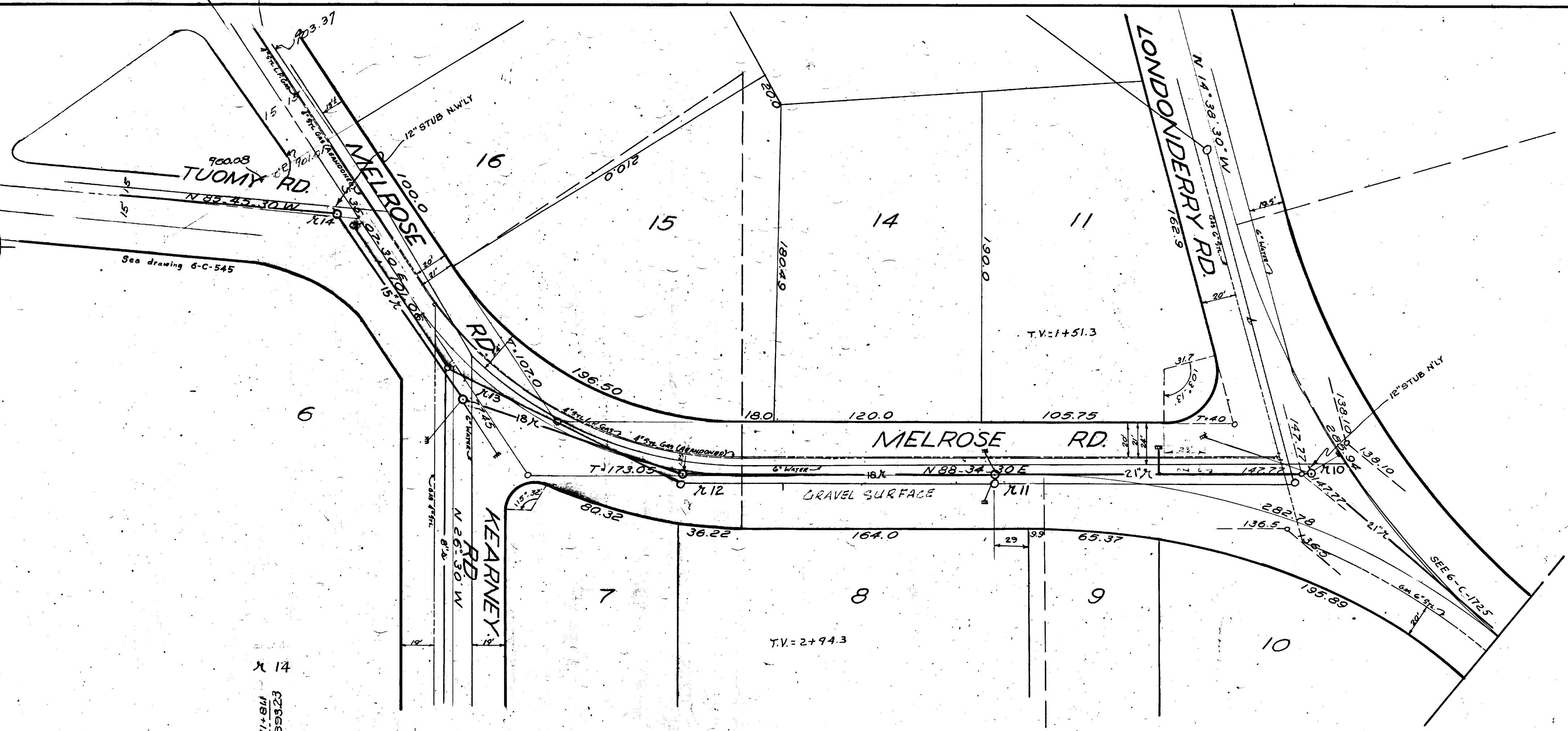
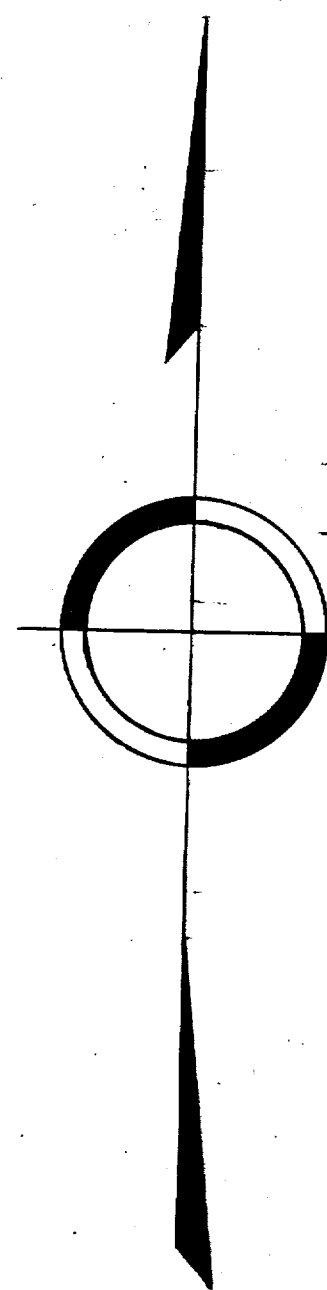


- Manhole
- Sanitary Main
- Sanitary Lateral
- ⊗ Sanitary Lateral, Plugged
- Proposed Lining

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

Melrose Ave & Kearney Rd





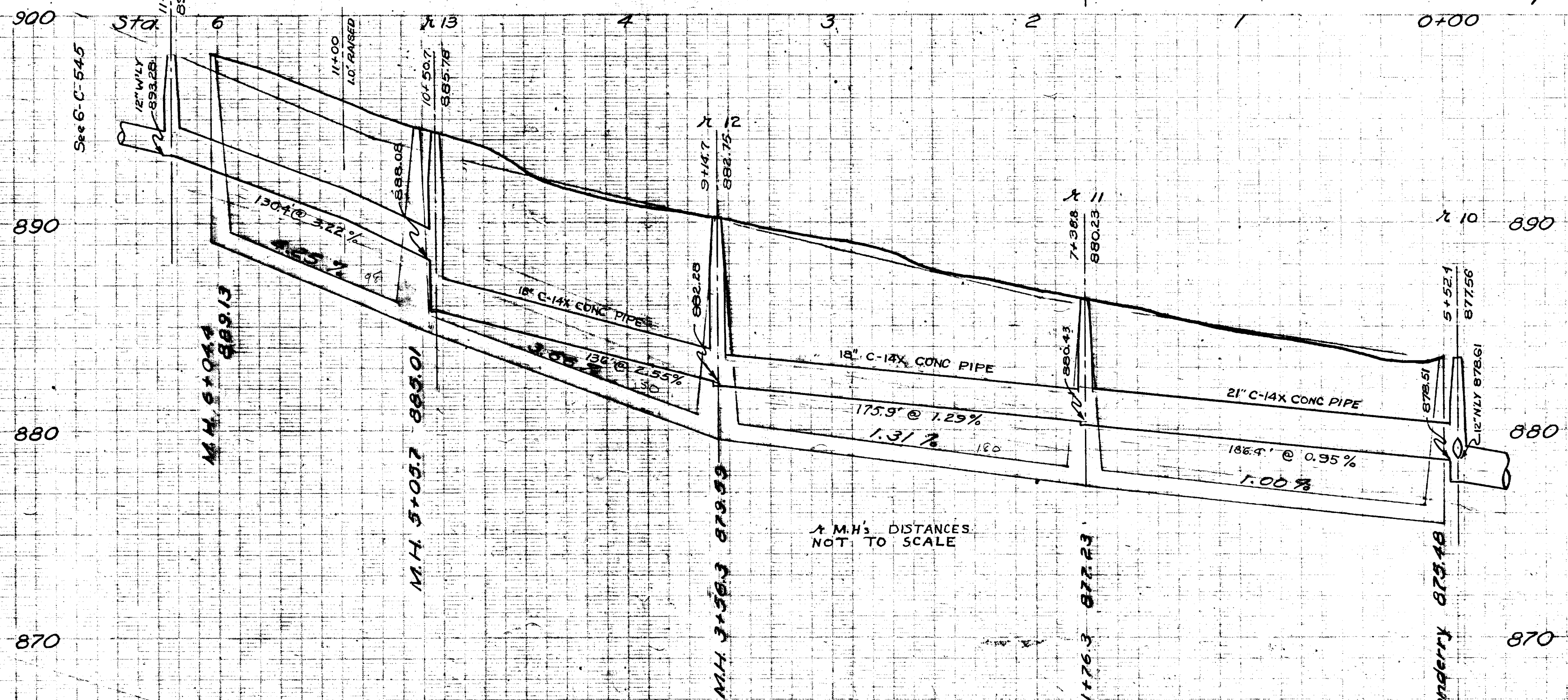
REFERENCE LINE FOR
TWO INCHES
0 1 2
PHOTOGRAPHED DRAWINGS

- REFERENCES -

BENCH MARK - LONDONDERRY & MELROSE 885.81
FIELD BOOK 767 1930 M.H. ELEV.

- LEGEND -

EXISTING SANITARY SEWERS	— A —
PROPOSED " "	— B —
EXISTING SYSTEM	— C —
PROPOSED " "	— D —
WATER	— W —
Gas	— G —



House Connections

W	0+00 M.H. on Melrose	E
	1+76.3 M.H.	
	2+95.3	
	3+56.3 M.H.	
	5+05.7 M.H.	
	6+04.4	5+39.7

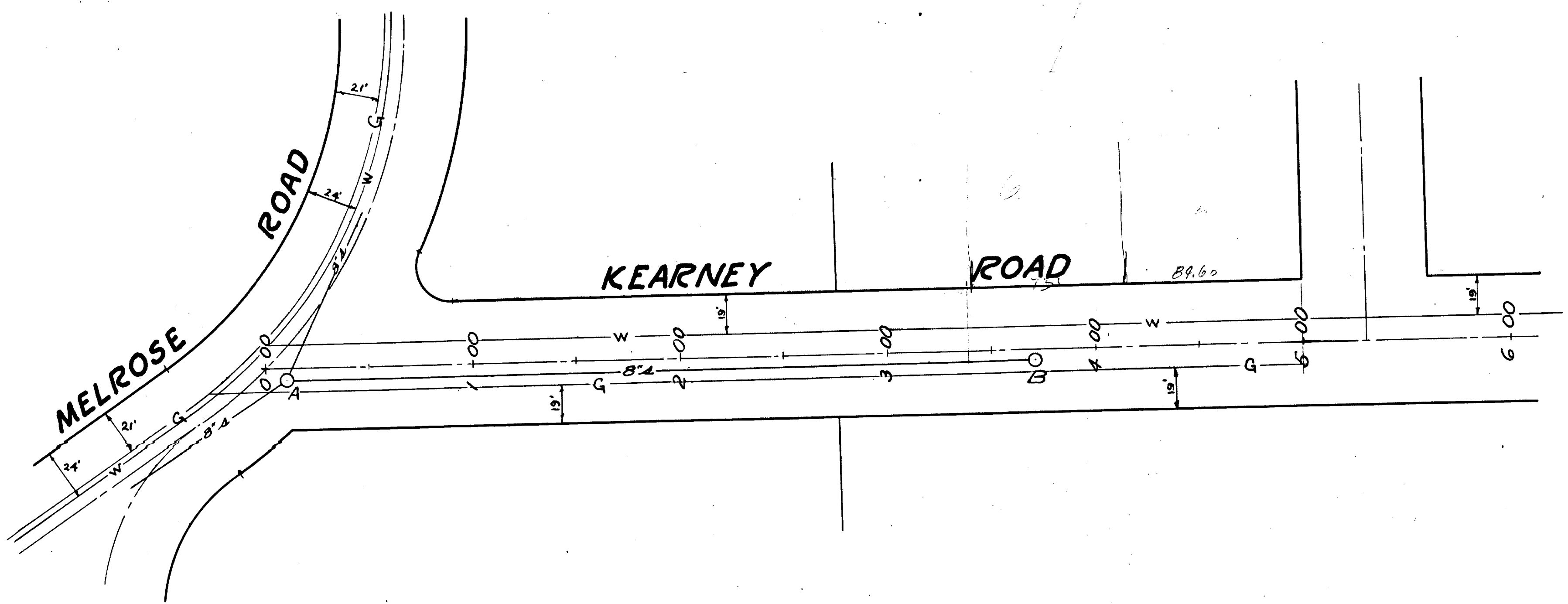
M.H. DISTANCES
NOT TO SCALE

JOB #2480 DIST. #24

Approved by:
Storm Sewer Design Permit
by Artwell-Hicks, Inc. Aug. 16, 1957

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

Sheet No. Index No. 2480 Shelf No. 6 Size No. 0 Sub No. 981	City Engineers Office ANN ARBOR, MICH. Plan and Profile of Storm and Sanitary Sewers MELROSE ROAD Belmont to Londonderry FREDRICK A. MAMMEL : Supt. of Public Works 1948 Scales Hor. 1" = 40' Vert. 1" = 4'
Drawn by Ruschman Traced by STORM INKED 115 2/00 Checked by A.M. 4/58	

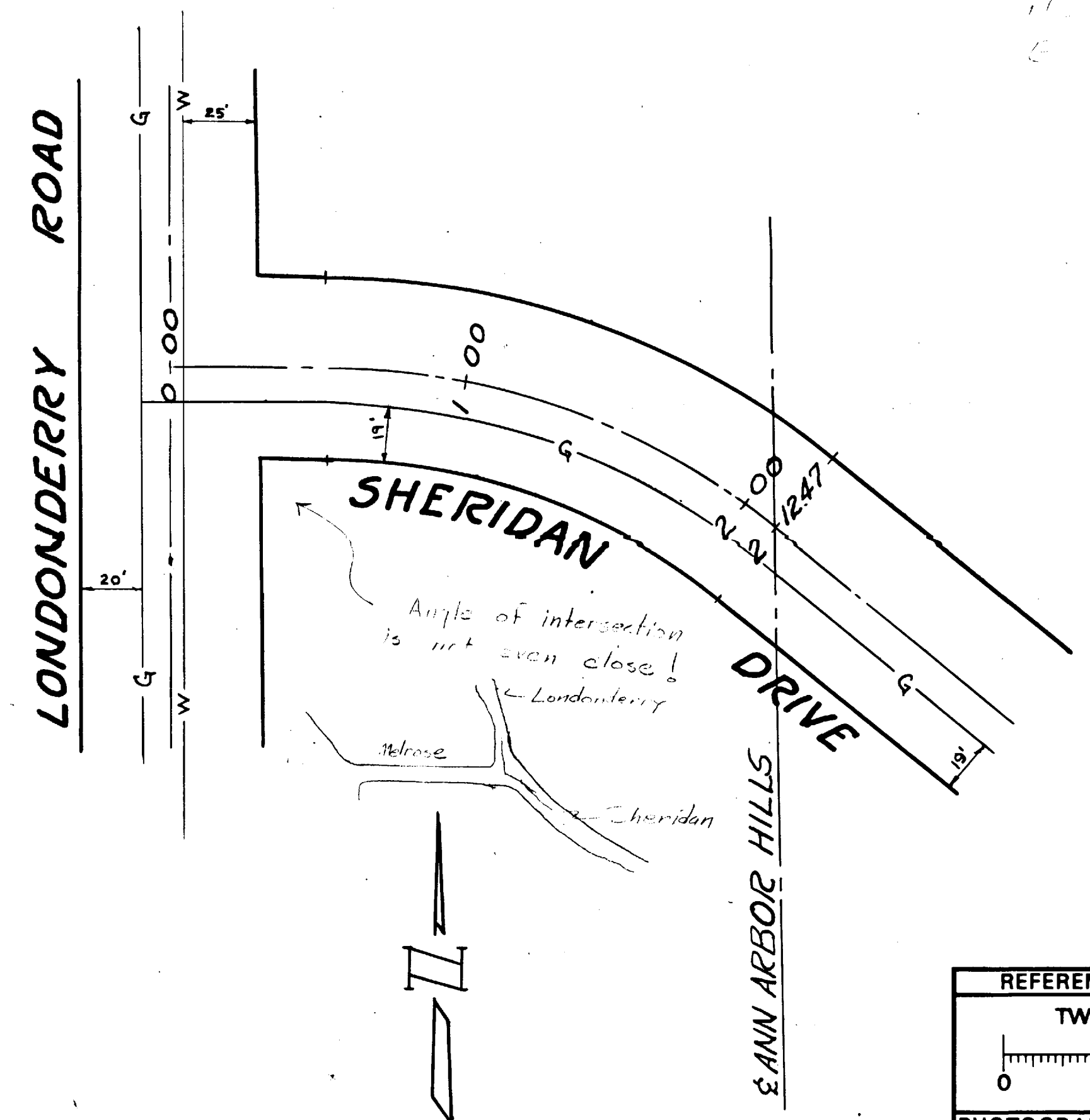
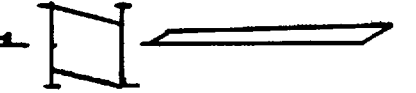


~ LEGEND ~

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

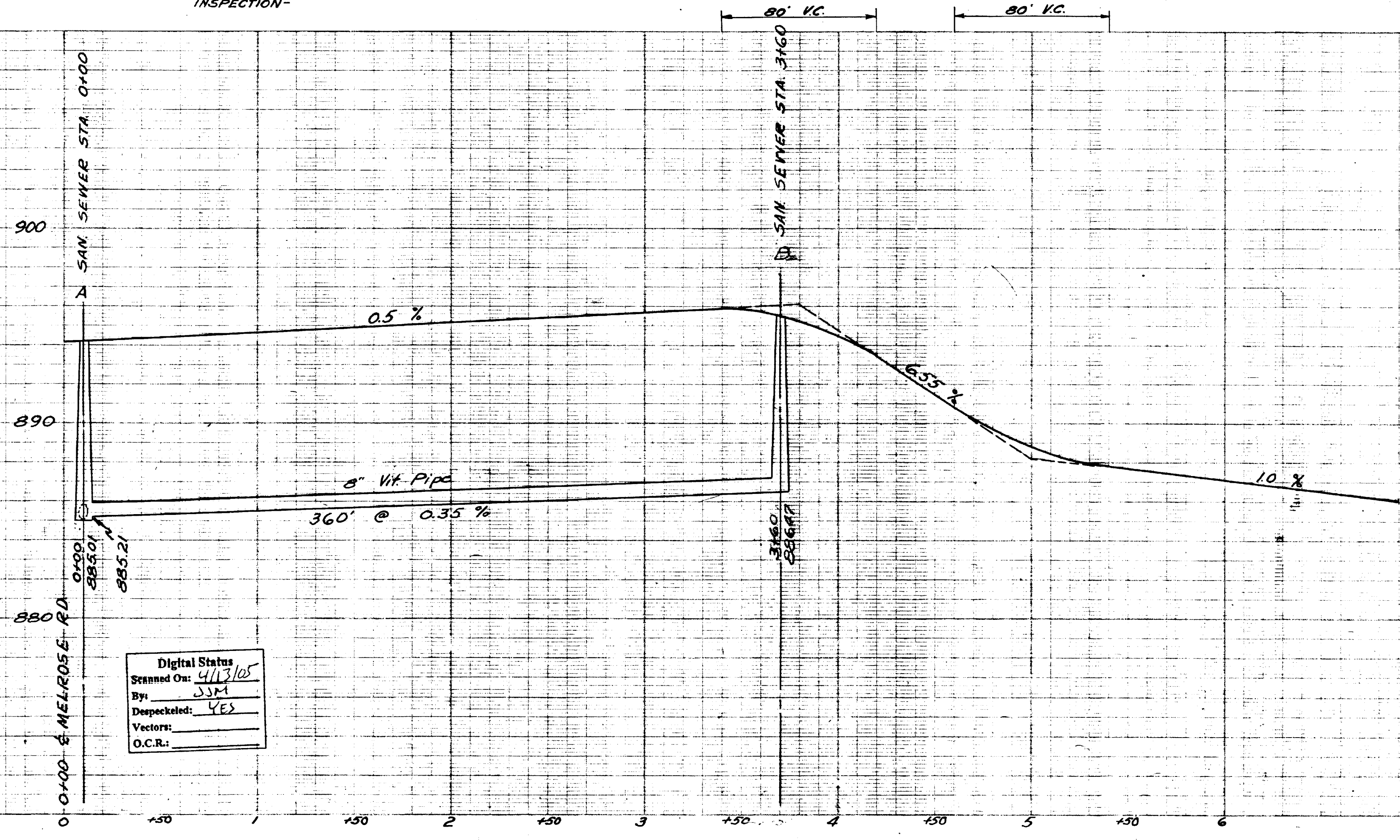
~ REFERENCES ~

- BENCH MARKS-
- DRAWINGS-
- PROFILES-
- INSPECTION-

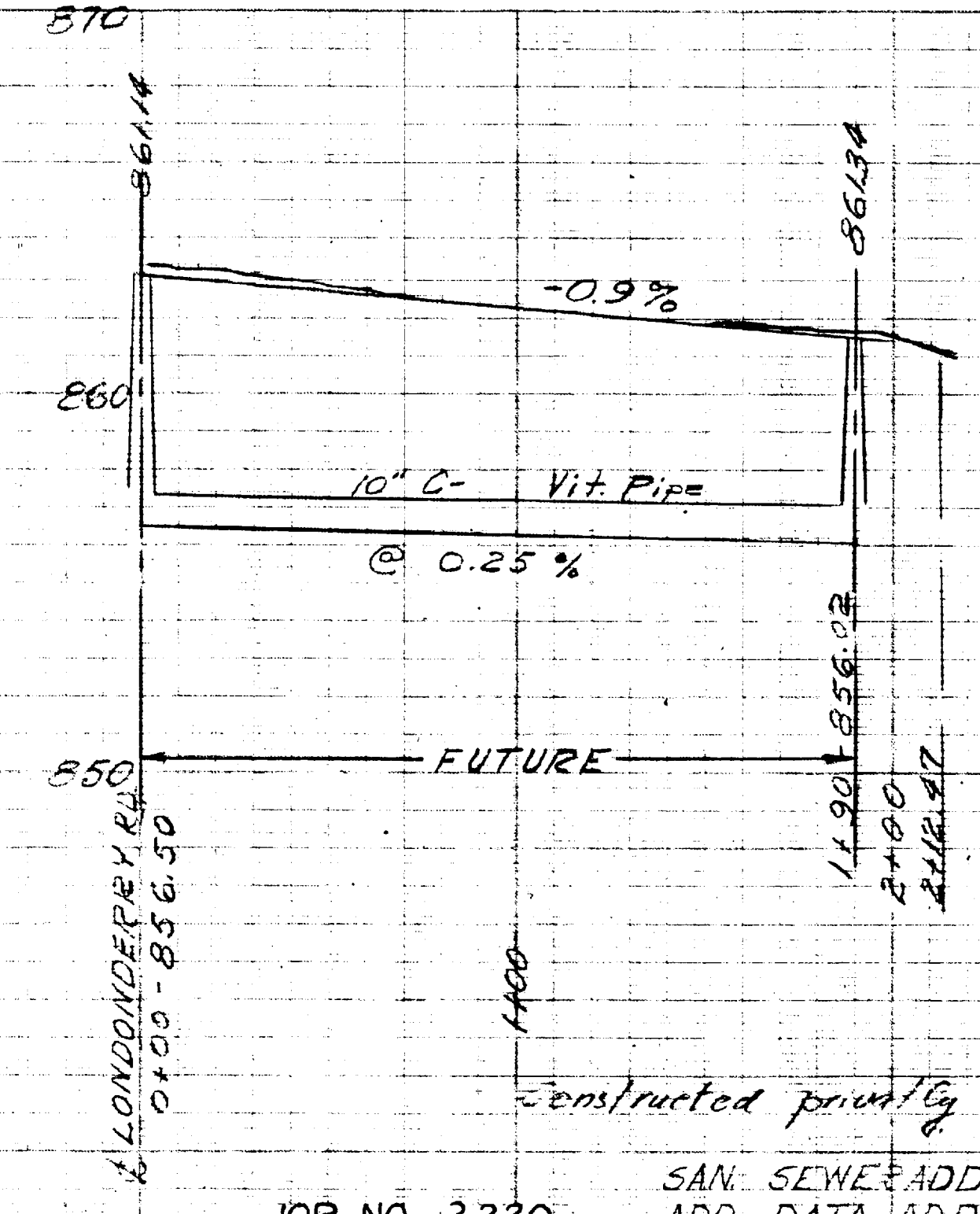


REFERENCE LINE FOR
TWO INCHES

PHOTOGRAPHED DRAWINGS



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O.C.R.:



constructed privately by 10th F. Eddy for Toomey

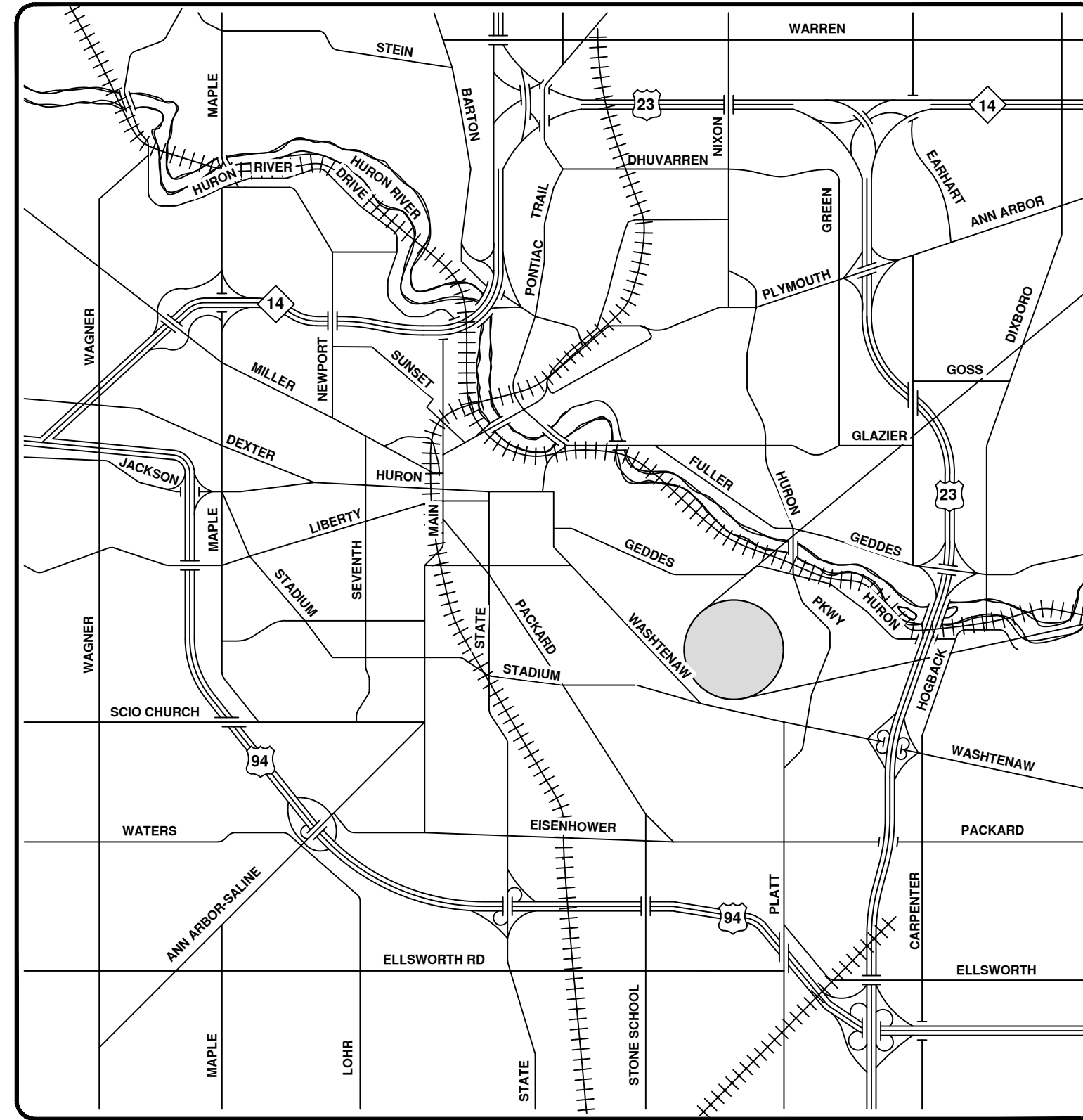
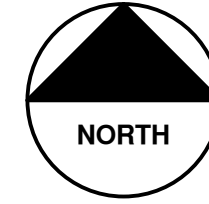
JOB NO. 2220 SAN. SEWER ADDED 5-11-55
ADD. DATA ADDED 5-18-55

DR. BY	DATE	SHEET NO.	SANITARY SEWER IN
TR. BY <i>AW</i>	11-55	INDEX NO. 3394	KEARNEY ROAD MELROSE TO 360' SOUTH
CH. BY		SHELF NO.	SHERIDAN DRIVE LONDONDERRY ROAD TO APPROX 200' EAST
REVISIONS		6-C-1623	GEO. H. SANDENBURGH CITY ENGINEER
		SCALE: HORIZONTAL 1" = 40' VERTICAL 1" = 4'	CITY ENGINEER'S OFFICE - ANN ARBOR, MICHIGAN



2023 SEWER LINING PROJECT

PROVINCIAL DR



VICINITY MAP



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 - ENGINEERING

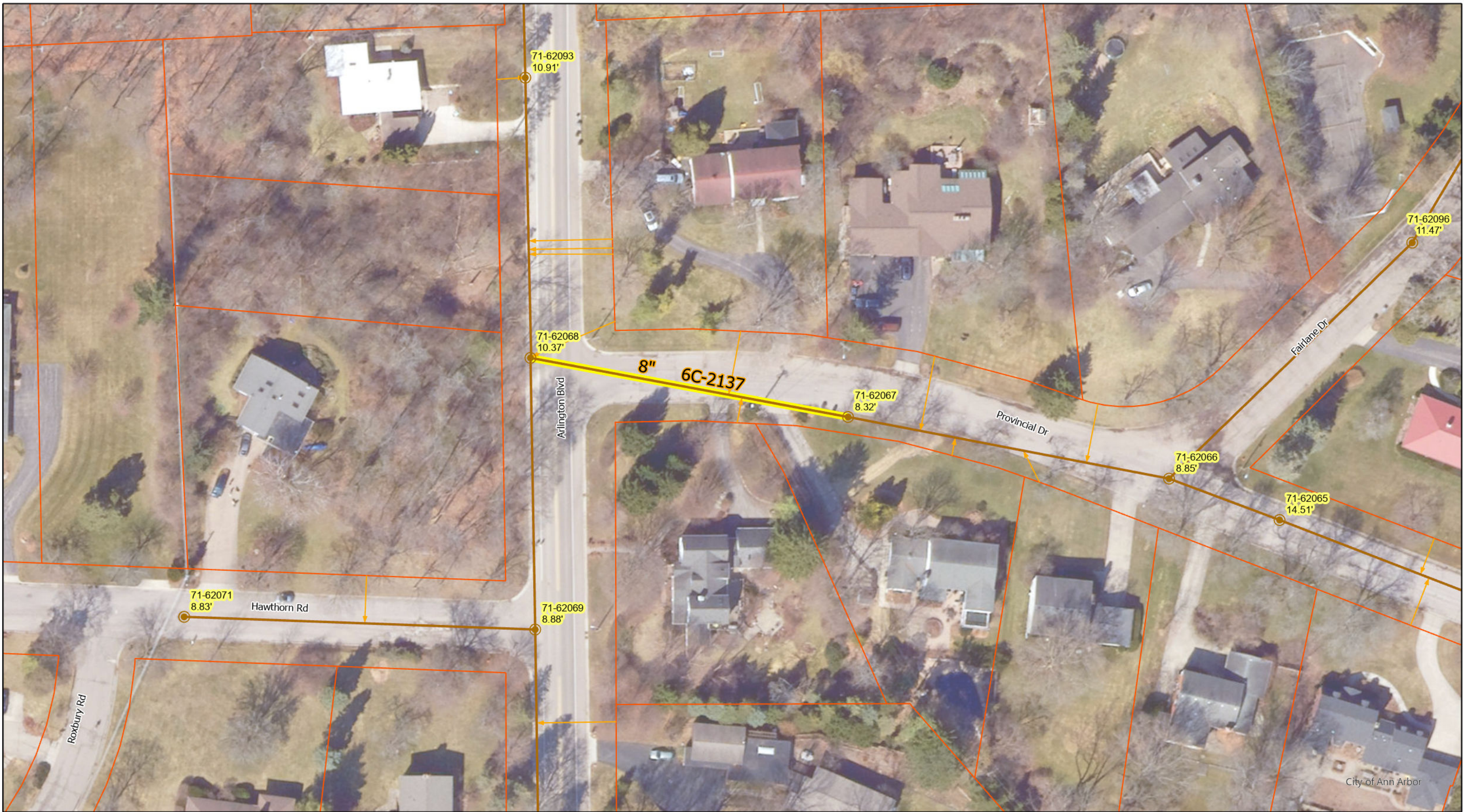
SCALE
 DRAWING No.
 2023011-61

SHEET No.
 61 OF 119

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

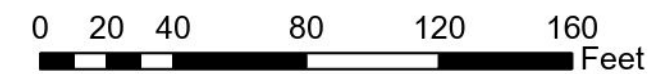
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	8/4/23	ARG	IK





- Manhole
- Sanitary Main
- Proposed Lining
- Sanitary Lateral

Provincial Dr



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

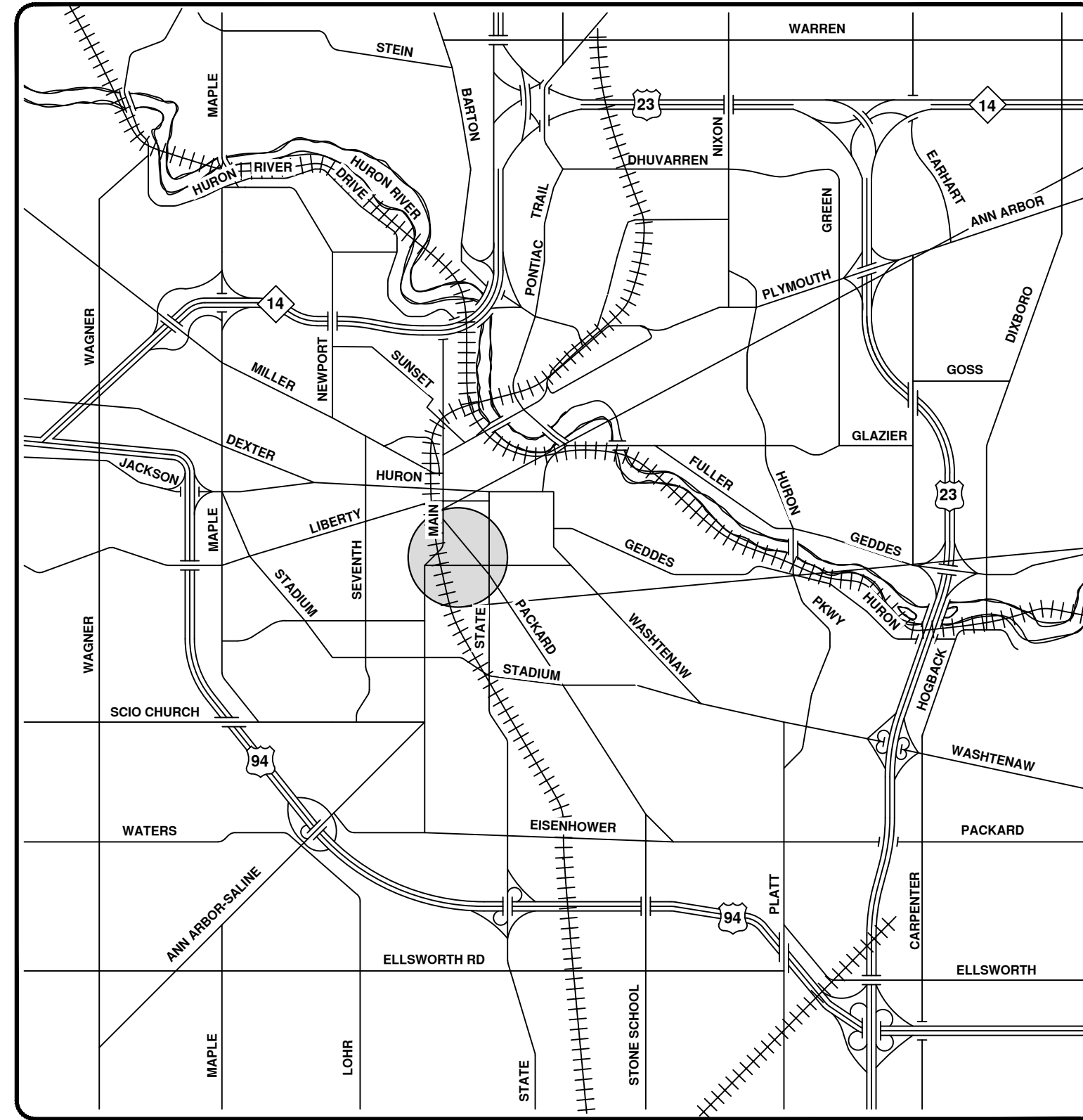
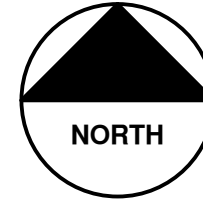
For terms and conditions please visit www.a2gov.org/terms



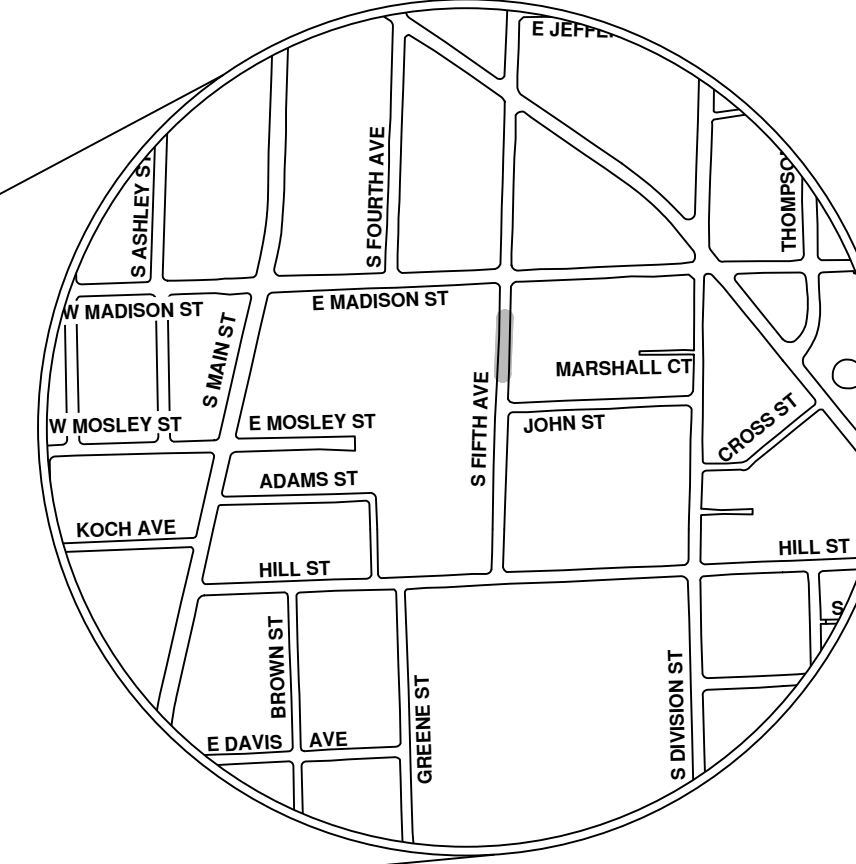


2023 SEWER LINING PROJECT

S FIFTH AVE



VICINITY MAP



R:\2023011 Sewer Lining_2023\Plan Production\2023011CovSan.dwg - _a2_standard bw.stb - Plot Date: 8/4/2023 10:55:41 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 - ENGINEERING		CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MICHIGAN 48107-8647 734-794-6410 www.a2gov.org	
SCALE	DRAWING No.	DESCRIPTION	REV.
	2023011-64	BID SET	00
		DATE	8/4/23
		DRAWN	ARG
		CHECKED	IK
SHEET No.		64 OF 119	





S Fifth Ave

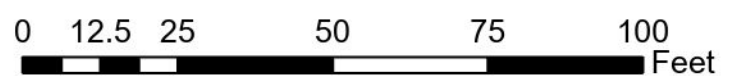
- Manhole
- SanitaryMain
- Proposed Lining
- Sanitary Lateral

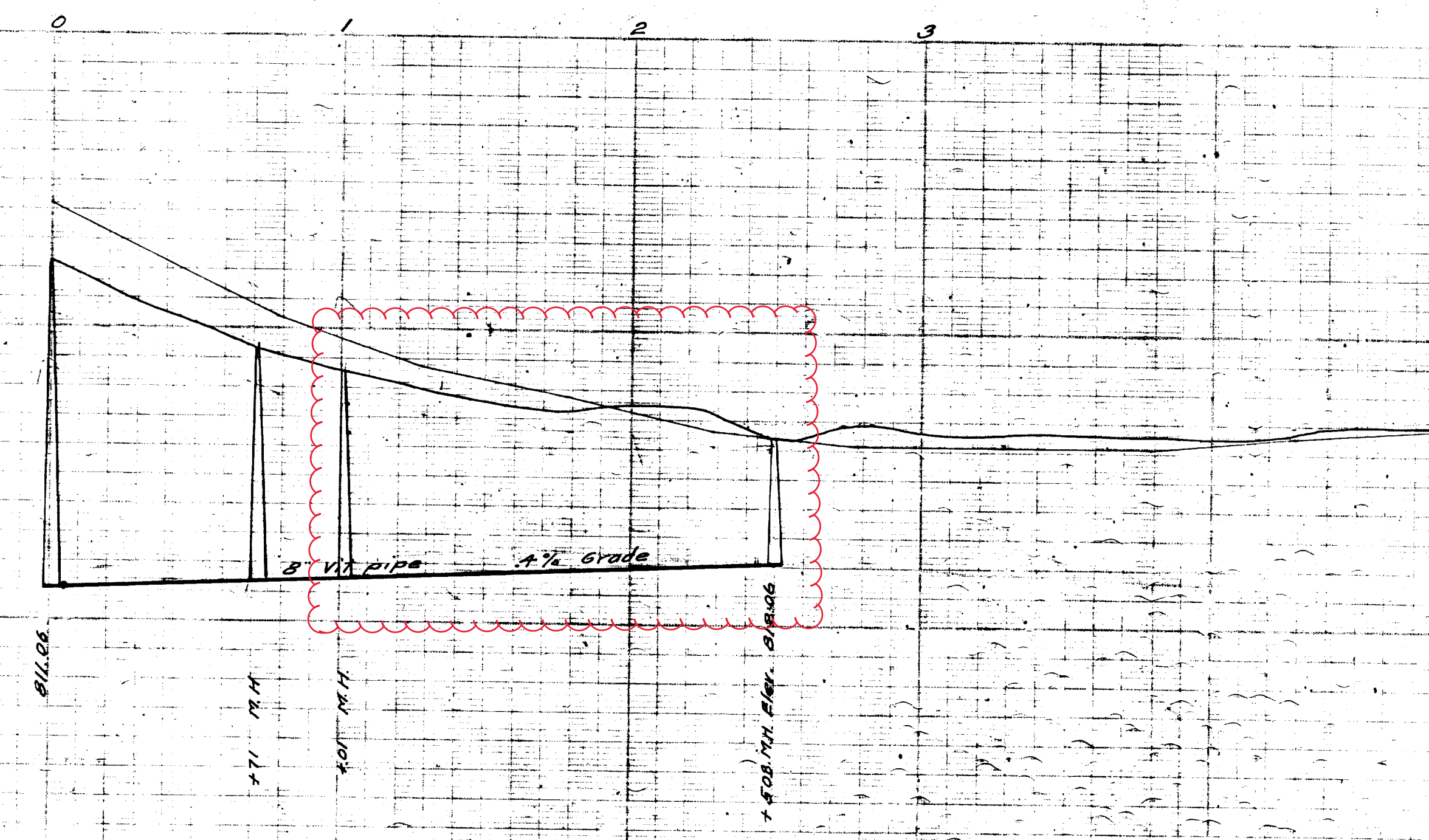
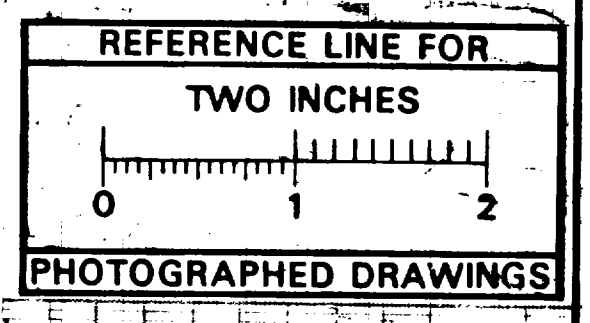
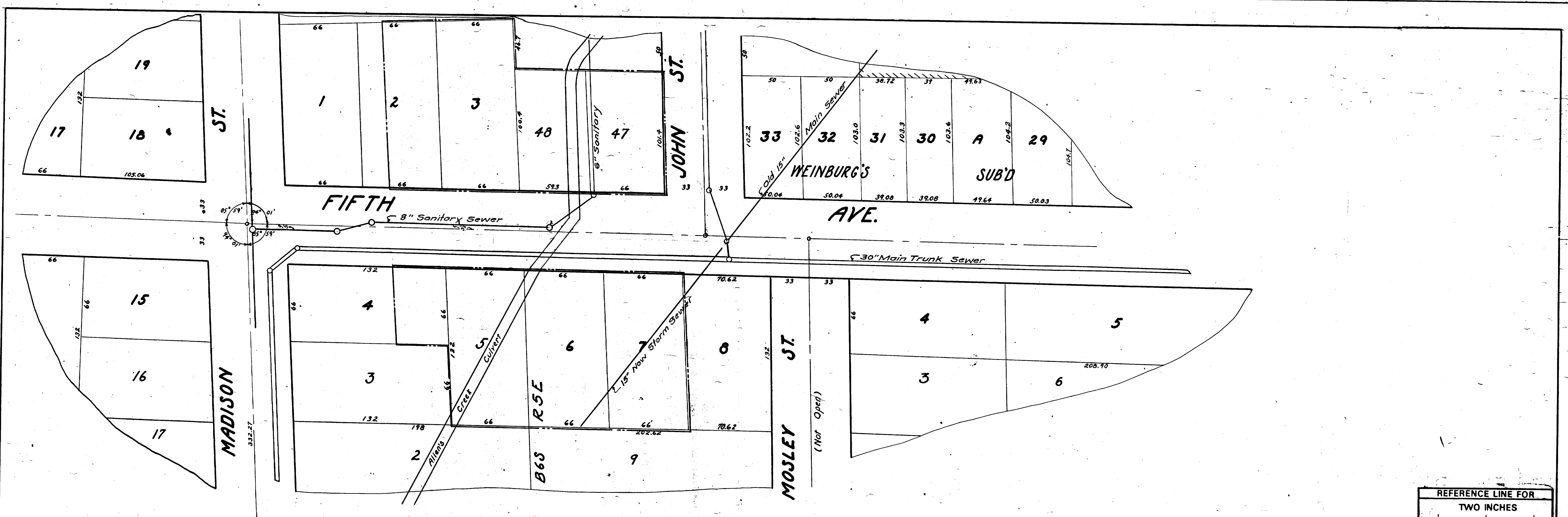
71-XXXXX (Manhole ID)

X.XX' (Manhole Depth)



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MEASUREMENTS TO HOUSE CONNECTIONS

0+00 = M.H. at Madison St.

East	West
0+71 M.H.	
	77.01 M.H.
1+74.4	2+50.8 M.H.
2+50.8	

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

Corrected to Final Measurements
 1920-4-17 M.E. Smith

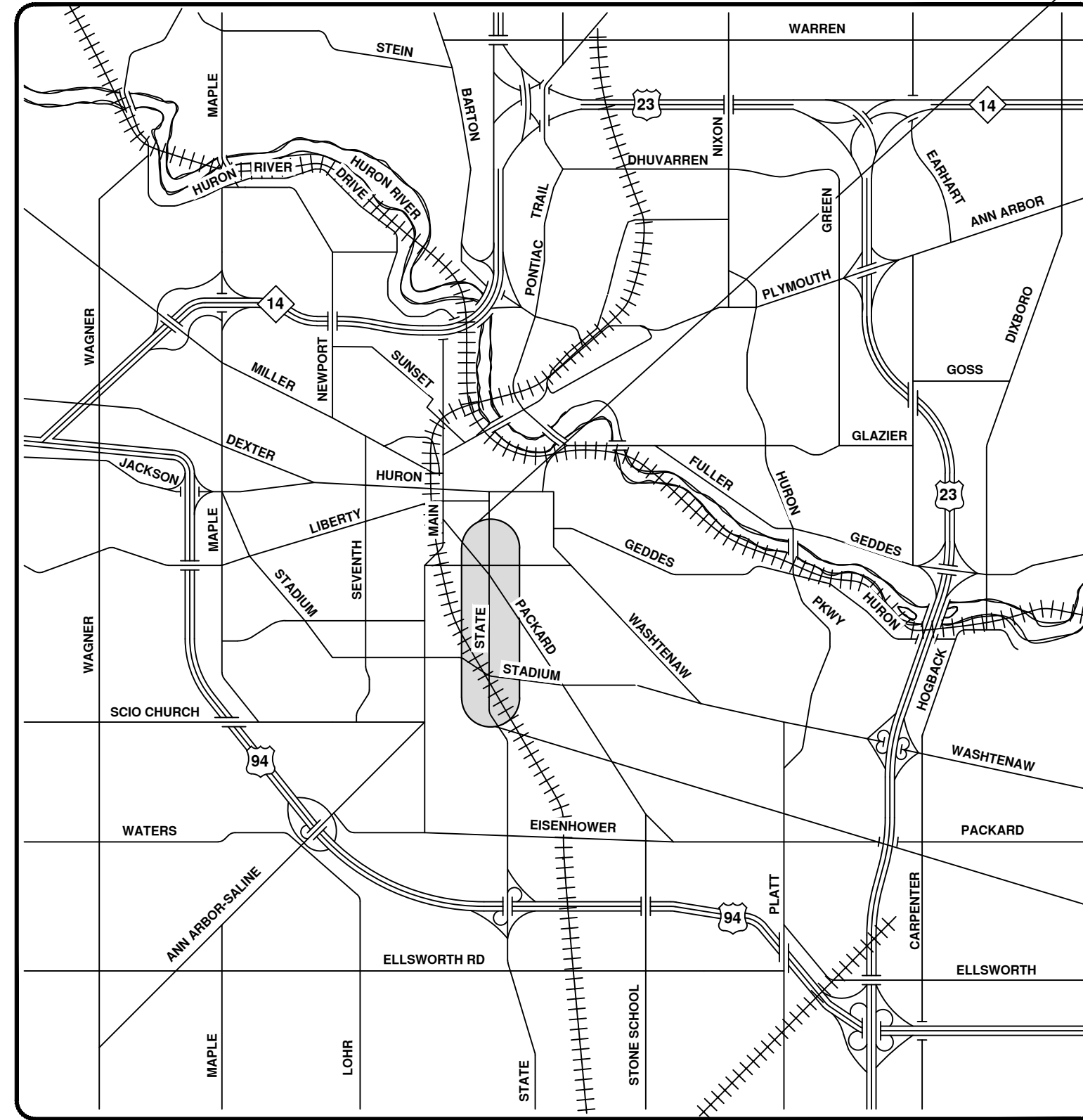
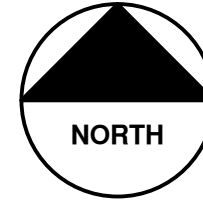
Street
 East Walk
 Established Grade

INDEX No. 1166 SHELF No. 6 SIZE C SUB No. 458 Drawn by H. E. Smith Traced by H. E. Smith Checked by	CITY ENGINEER'S OFFICE ANN ARBOR, MICH. PLAN AND PROFILE OF SANITARY SEWER SO. FIFTH AVE. Madison St. to John St. Geo. H. Sandenburgh, City Engineer 1920-6-9 Scales - Plan 1" = 40' Profile - Hor. 1" = 40' Ver. 1" = 4'
---	--

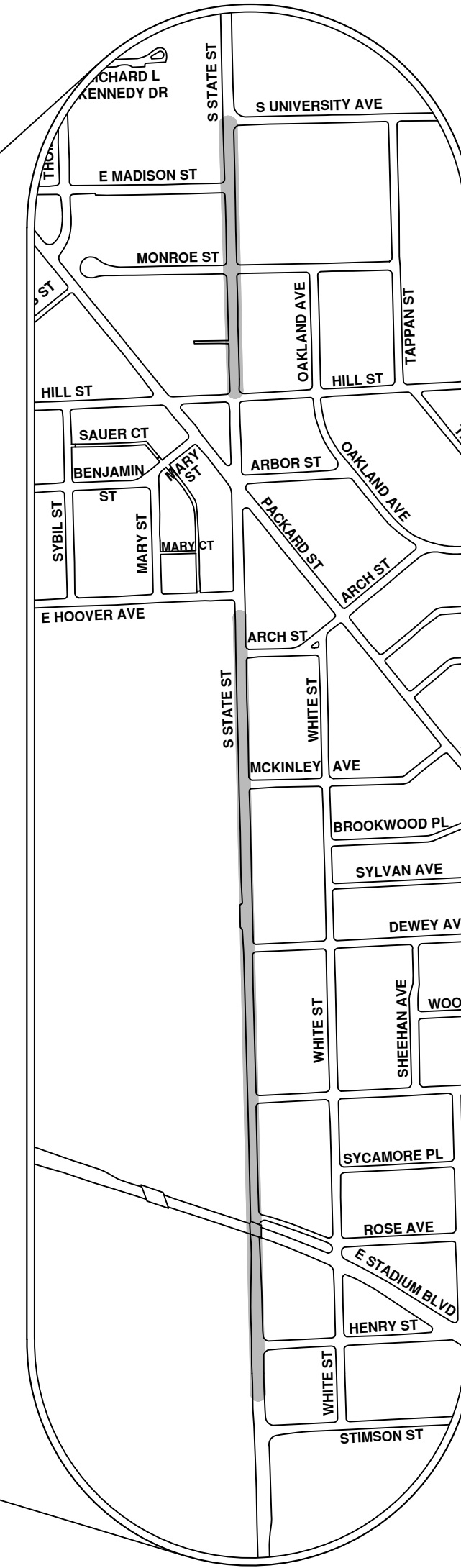


2023 SEWER LINING PROJECT

S STATE ST



VICINITY MAP



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

R:\2023011 Sewer Lining 2023\Plan Production\2023011CovSan.dwg - _a2 standard bw.stb - Plot Date: 8/4/2023 10:55:46 AM



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	8/4/23	ARG	IK

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

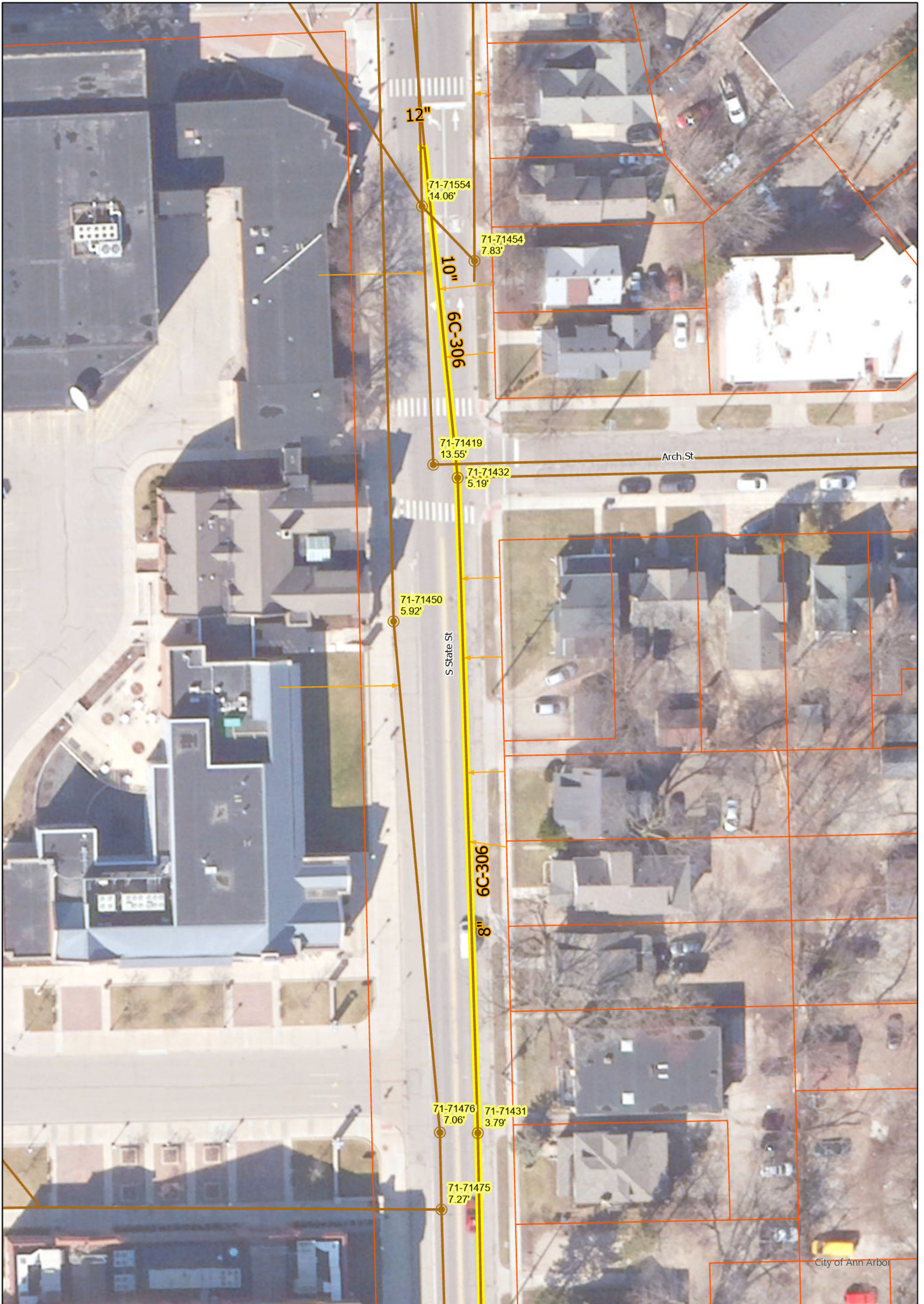


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2023011-67

SHEET No.

67 OF 119



S State St

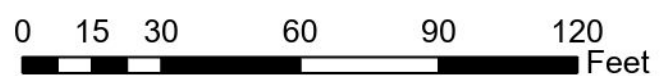
- Manhole
- Sanitary Main
- Proposed Lining
- Sanitary Lateral

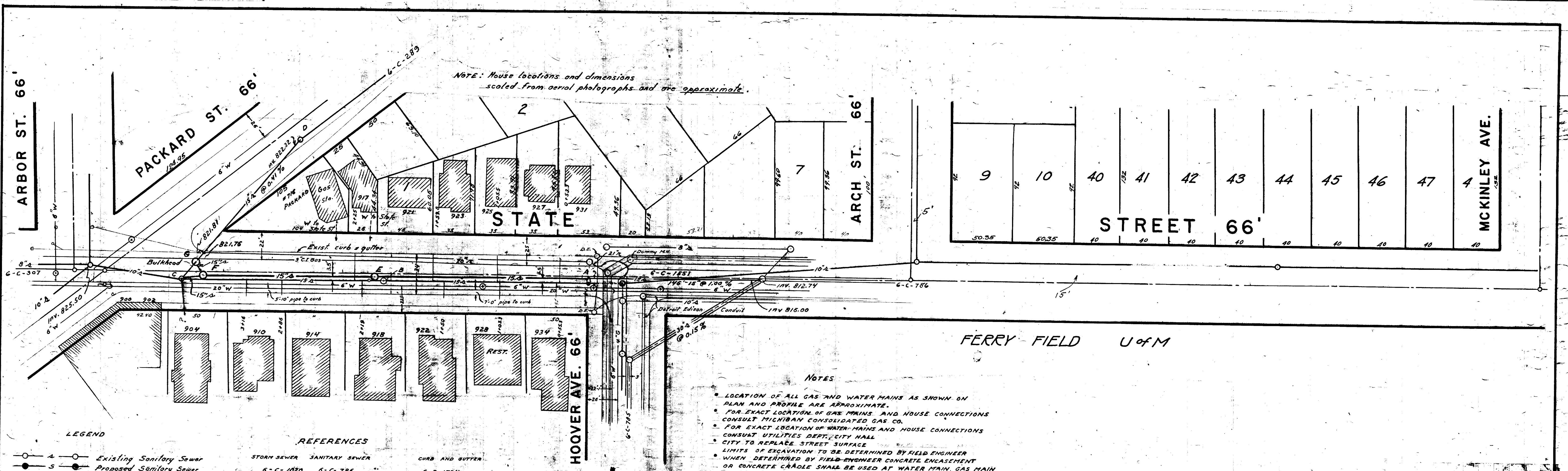
71-XXXXX (Manhole ID)

X.XX' (Manhole Depth)



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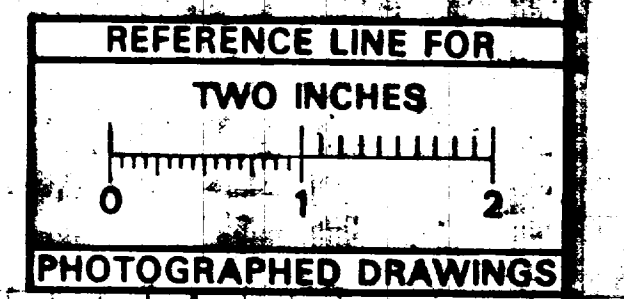
- LEGEND**
- Existing Sanitary Sewer
 - Proposed Sanitary Sewer
 - Existing Storm Sewer
 - Proposed Storm Sewer
 - Gas Main
 - Water Main

REFERENCES

STORM SEWER	SANITARY SEWER	CURB AND GUTTER
6-C-1080	6-C-786	6-C-1724
6-C-1530	6-C-288	6-C-1722
6-C-1403	6-C-289	6-C-110
6-C-1331	6-C-307	
	6-C-785	

Sewer elevations - Book 746 pg 41
 Profile - Book 717 pg 45-50
 6-C-7dpo - Book 709 pg 34-37

- NOTES**
- LOCATION OF ALL GAS AND WATER MAINS AS SHOWN ON PLAN AND PROFILE ARE APPROXIMATE.
 - FOR EXACT LOCATION OF GAS MAINS AND HOUSE CONNECTIONS CONSULT MICHIGAN CONSOLIDATED GAS CO.
 - FOR EXACT LOCATION OF WATER MAINS AND HOUSE CONNECTIONS CONSULT UTILITIES DEPT., CITY HALL.
 - CITY TO REPLACE STREET SURFACE.
 - LIMITS OF EXCAVATION TO BE DETERMINED BY FIELD ENGINEER.
 - WHEN DETERMINED BY FIELD ENGINEER CONCRETE ENCASMENT OR CONCRETE CRADLE SHALL BE USED AT WATER MAIN, GAS MAIN, SANITARY SEWER OR ANY OTHER PLACE WHEN NECESSARY. TO BE PAID FOR PER CUBIC YARD AS PER BID PRICE IN PROPOSAL.
 - CONSULT DETROIT EDISON CO FOR EXACT LOCATION OF ALL UNDERGROUND CONDUITS BEFORE ANY WORK BELOW GROUND IS BEGUN.
 - EXISTING 15" SANITARY SEWER AND LINES FROM HOUSES MUST BE MAINTAINED DURING CONSTRUCTION.



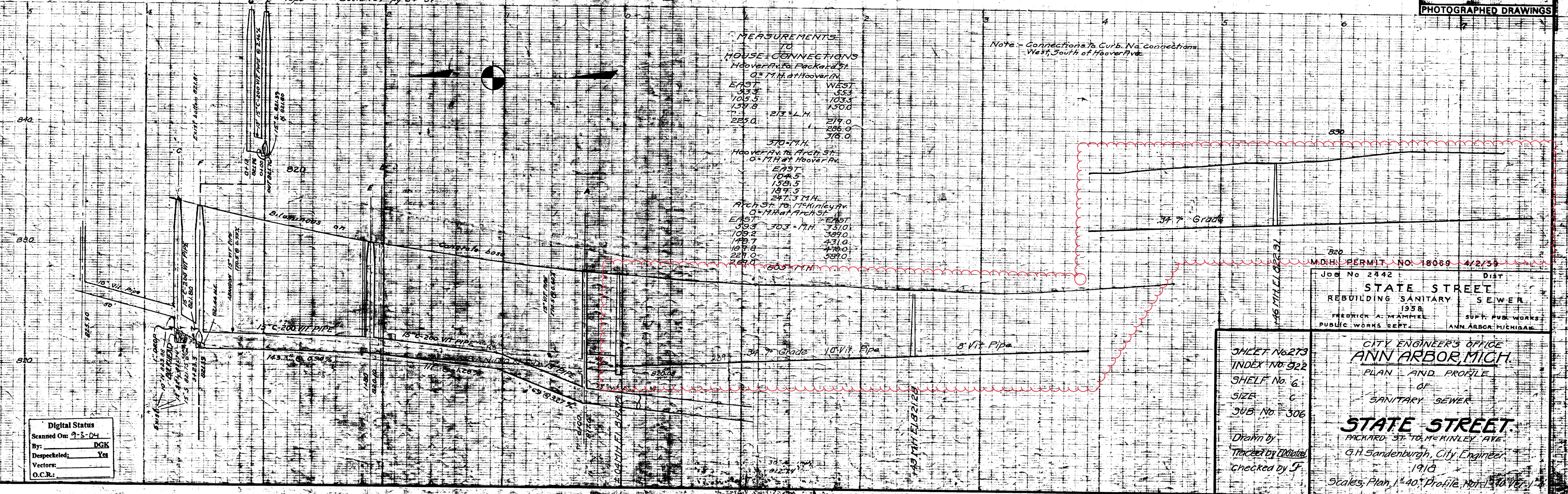
MEASUREMENTS TO HOUSE CONNECTIONS

Hoover Ave. to Packard St. 0" M.H. at Hoover Av.	
EAST	WEST
43.3	53.3
105.5	103.3
159.8	150.0
225.0	214.0
	285.0
	316.0

370" M.H. Hoover Av. to Arch St. 0" M.H. at Hoover Av.	
EAST	WEST
104.5	53.3
139.5	103.3
183.3	150.0
247.3	214.0
	285.0
	316.0

Arch St. to McKinley Av. 0" M.H. at Arch St.	
EAST	WEST
39.3	33.0
105.2	389.0
149.7	431.0
194.8	470.0
240.0	510.0
285.0	
330.0	

Note - Connections to Curb. No Connections West South of Hoover Ave.



MDH PERMIT NO. 18069 4/2/59
 Job No 2442 DIST
STATE STREET
 REBUILDING SANITARY SEWER
 1938
 FREDERICK A. MANTLE SUPV. PUB. WORKS
 PUBLIC WORKS DEPT. ANN ARBOR, MICHIGAN

SHEET No 273
 INDEX No 922
 SHELF No 6
 SIZE C
 JOB No 306
 Drawn by
 Traced by
 Checked by

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
 PLAN AND PROFILE
 OF
 SANITARY SEWER
STATE STREET
 PACKARD ST. TO MCKINLEY AVE.
 G.H. Sandenburgh, City Engineer
 1918
 Scales: Plan, 1"=40' Profile, 1"=10'

Digital Status
 Scanned On: 7-5-04
 By: DKG
 Despeckled: Yes
 Vectors:
 O.C.R.:



S State St

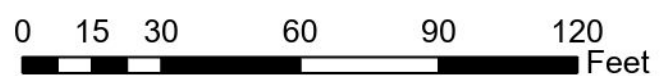
- Manhole
- Sanitary Main
- Proposed Lining
- Sanitary Lateral

71-XXXXX (Manhole ID)

X.XX' (Manhole Depth)



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S State St

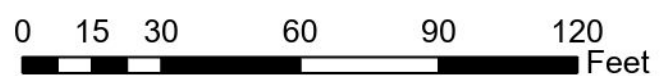
- Manhole
- Sanitary Main
- Proposed Lining
- Sanitary Lateral

71-XXXXX (Manhole ID)

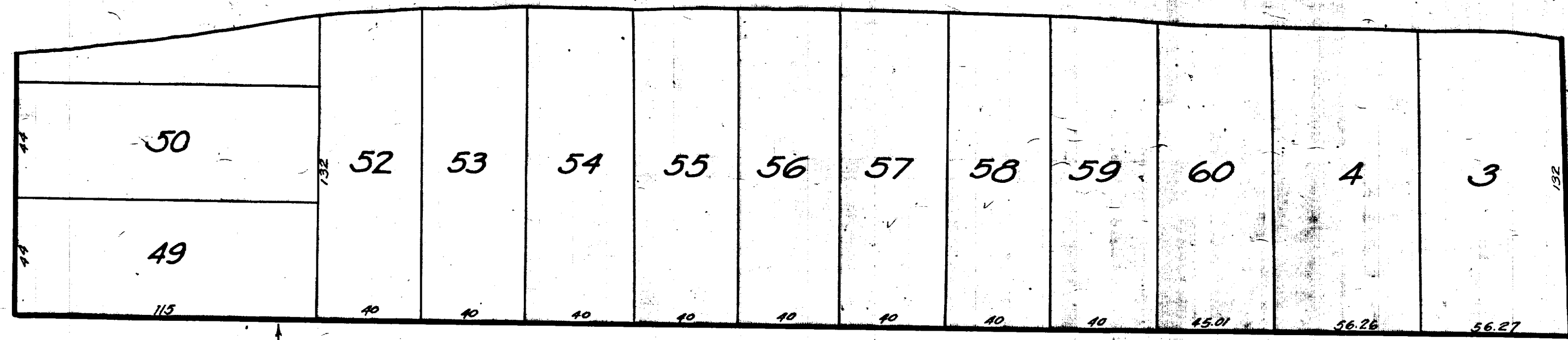
X.XX' (Manhole Depth)



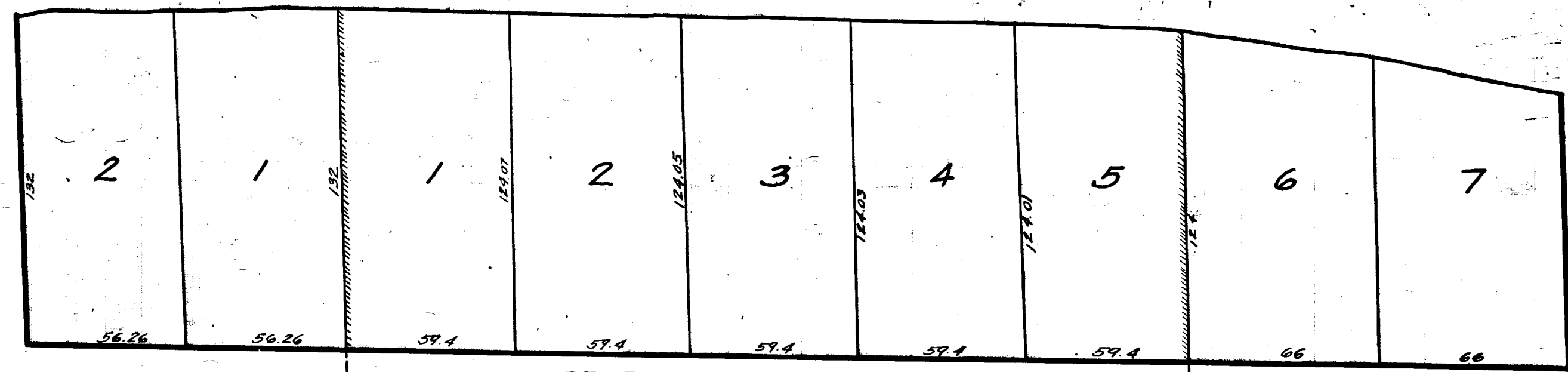
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McMINLEY



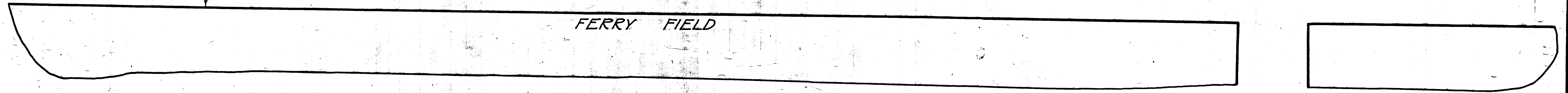
DEWEY AVE.



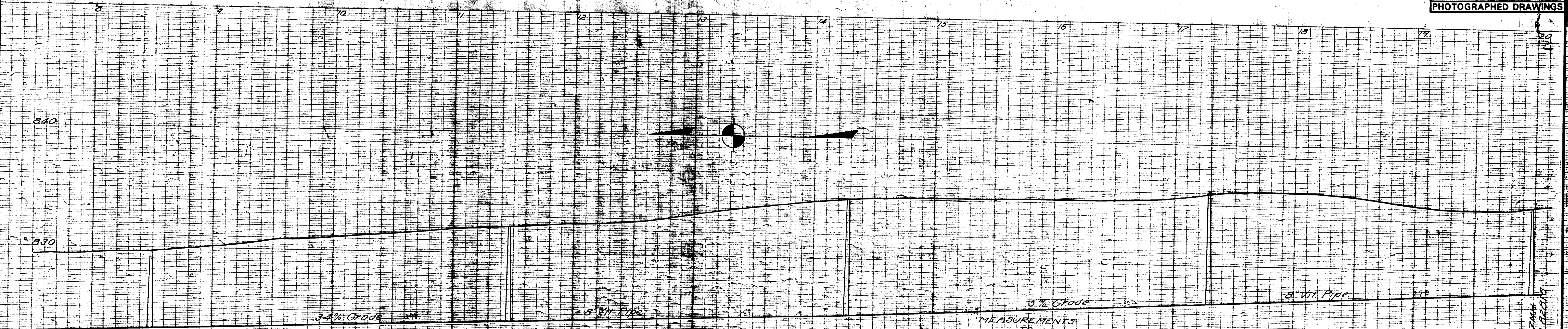
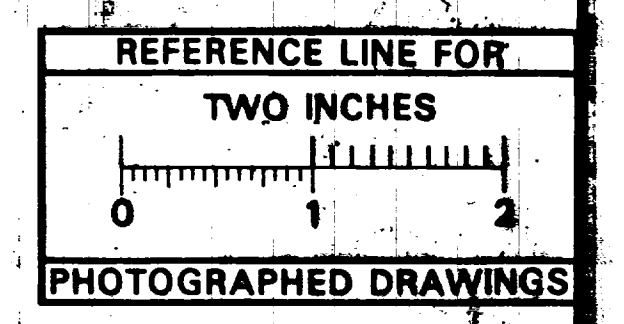
GRANGER

STATE STREET

STATE STREET



FERRY FIELD



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

EL 823.84

EL 823.71

EL 826.81

EL 826.81

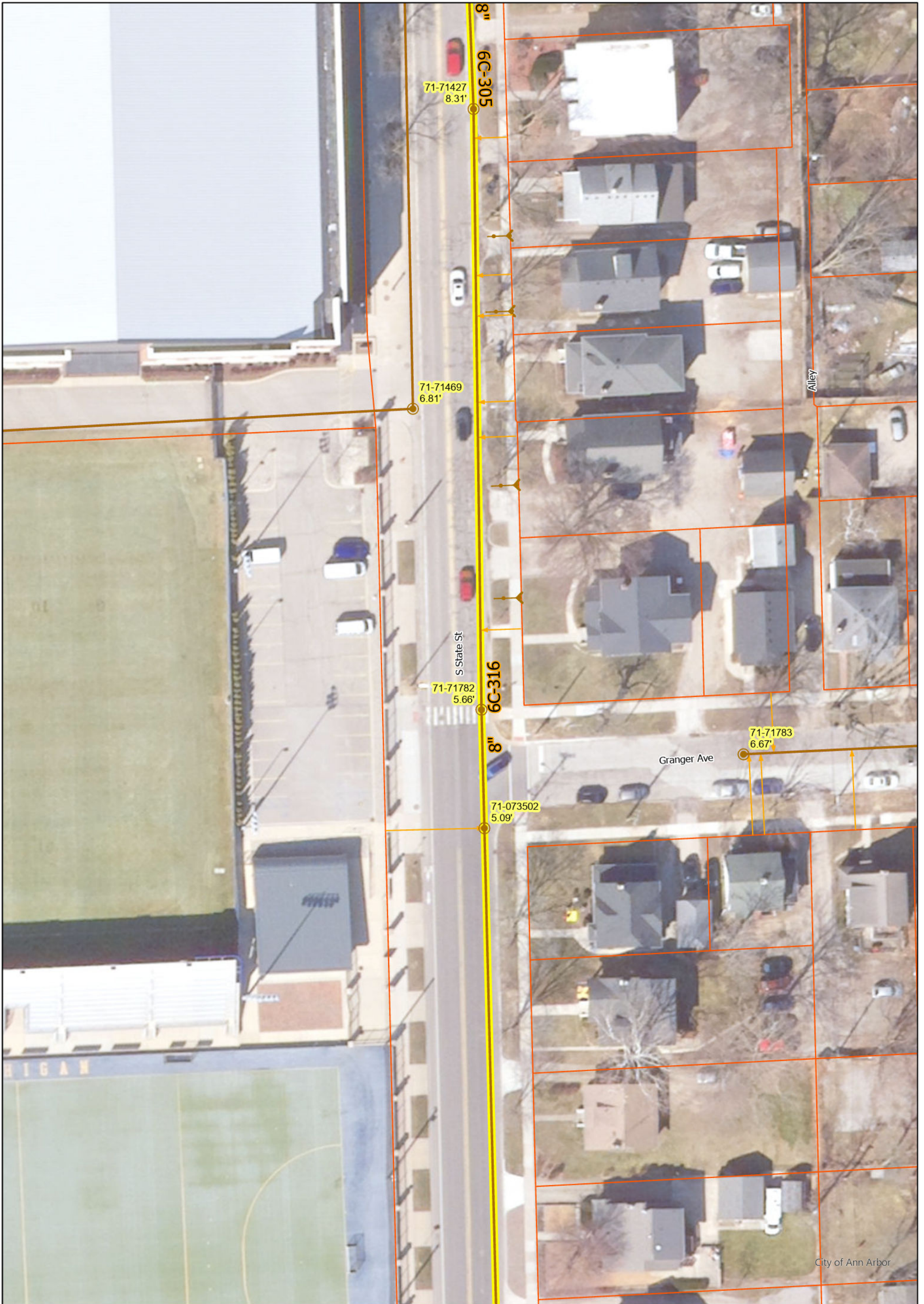
EL 823.15

MEASUREMENTS TO HOUSE CONNECTIONS

On State from McMilly to Dewey	
312.805 - M.H. South of McMilly	1001.2
642.4	891.2
690.0	930.8
737.3	972.2
785.7	1011.5
840.0	1053.3
899.5	1108.3
On State from Dewey to Granger	
514.0 - M.H. at Dewey	889.5
109.0	431.0
273.8	470.0
309.5	522.7
354.0	570.0 - M.H.
	574.0 - M.H.

SHEET No. 272
 INDEX No. 321
 SHEET No. 6
 SIZE C
 SUB No. 305
 Drawn by
 Traced by
 Checked by

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
 PLAN AND PROFILE
 OF
 SANITARY SEWER
STATE STREET
 McMINLEY TO GRANGER AVE.
 G.H. Sanderburgh, City Engineer.
 1918
 Scales, Plan, 1" = 40'; Profile, 1" = 10'



S State St

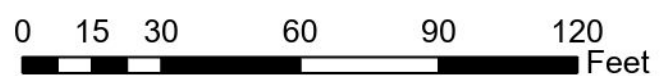
● Manhole

— Sanitary Main
 — Sanitary Lateral, Abandoned
 — Sanitary Lateral

— Proposed Lining

71-XXXXX (Manhole ID)

X.XX' (Manhole Depth)



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DEWEY AVE.

C. H. CADY'S SUB.

BLOCK 1

GRANGER AVE.

BLOCK 2

ROSE AVE.

STATE

ST.

Flushtank made over

UNIVERSITY LAND

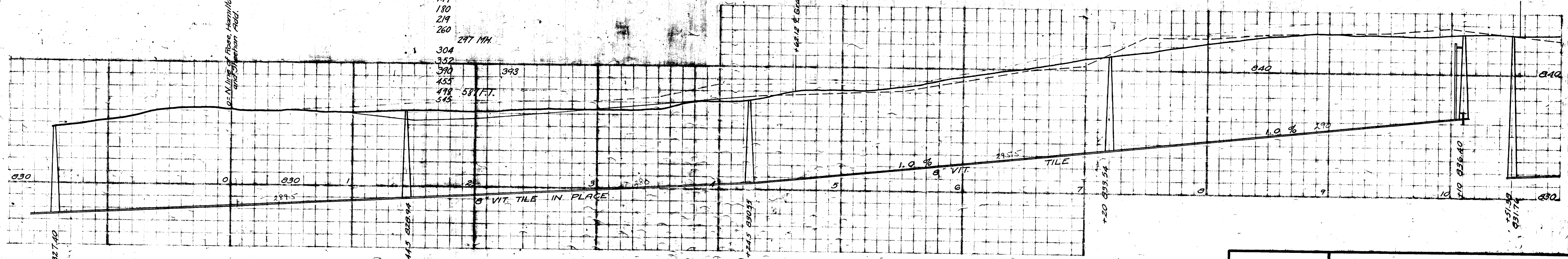
MEASUREMENTS TO HOUSE CONNECTIONS

STATE ST. Granger to Rose Ave.
Sta. 0 = Manhole at Granger.

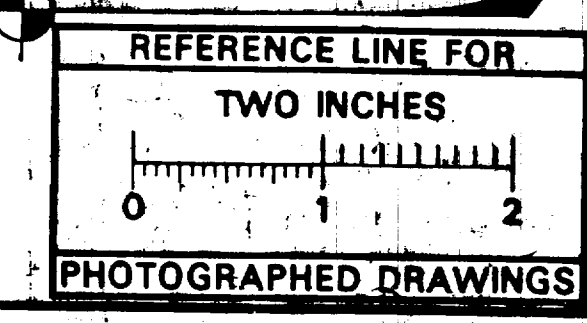
East	West
79 y's only	25
115	182
149	
180	
219	
260	

297 MH.

304	
352	
390	393
433	
478	531 F.T.
515	

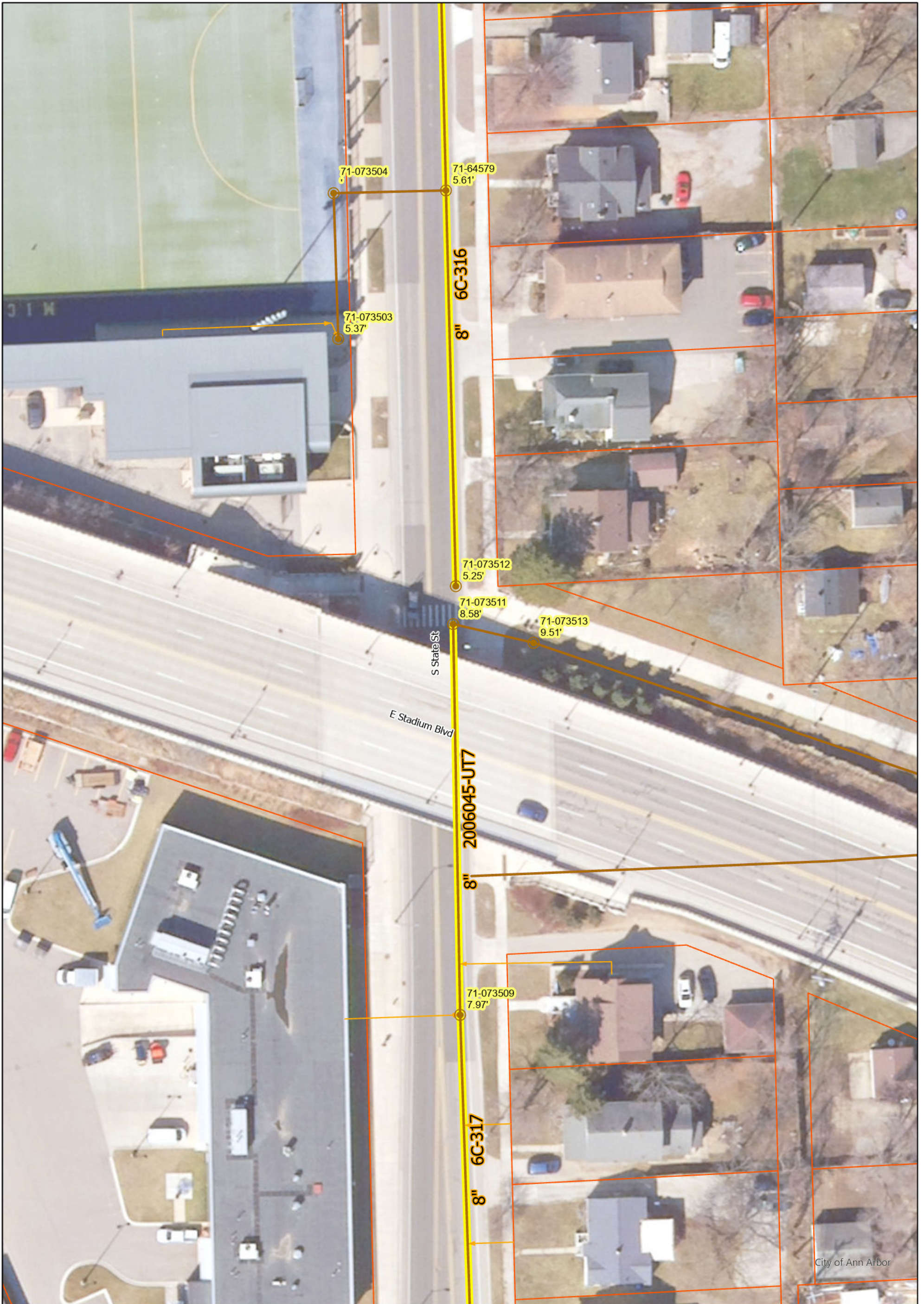


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 O.C.R.:



SHEET No. 282
 INDEX No. 931
 SHELF No. 6
 SIZE C
 SUB No. 316
 Drawn by SUTMAN
 Traced by SUTMAN
 Checked by J.S.

CITY ENGINEER'S OFFICE
 ANN ARBOR, MICH.
 PLAN AND PROFILE
 OF
 SANITARY SEWER
 DISTRICT No. SHEET No. 4.
STATE ST.
 DEWEY AVE. TO ROSE AVE.
 Manley Osgood, City Engineer
 1915-6
 Scales-Plan 1"=40' Profile-Hor. 1"=40' Ver. 1"=4'
 Four Sheets Sheet #3

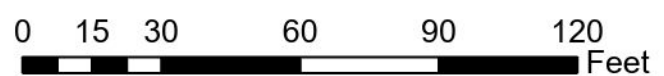


S State St

- Manhole
- Sanitary Main
- Proposed Lining
- Sanitary Lateral

71-XXXXX (Manhole ID)

X.XX' (Manhole Depth)



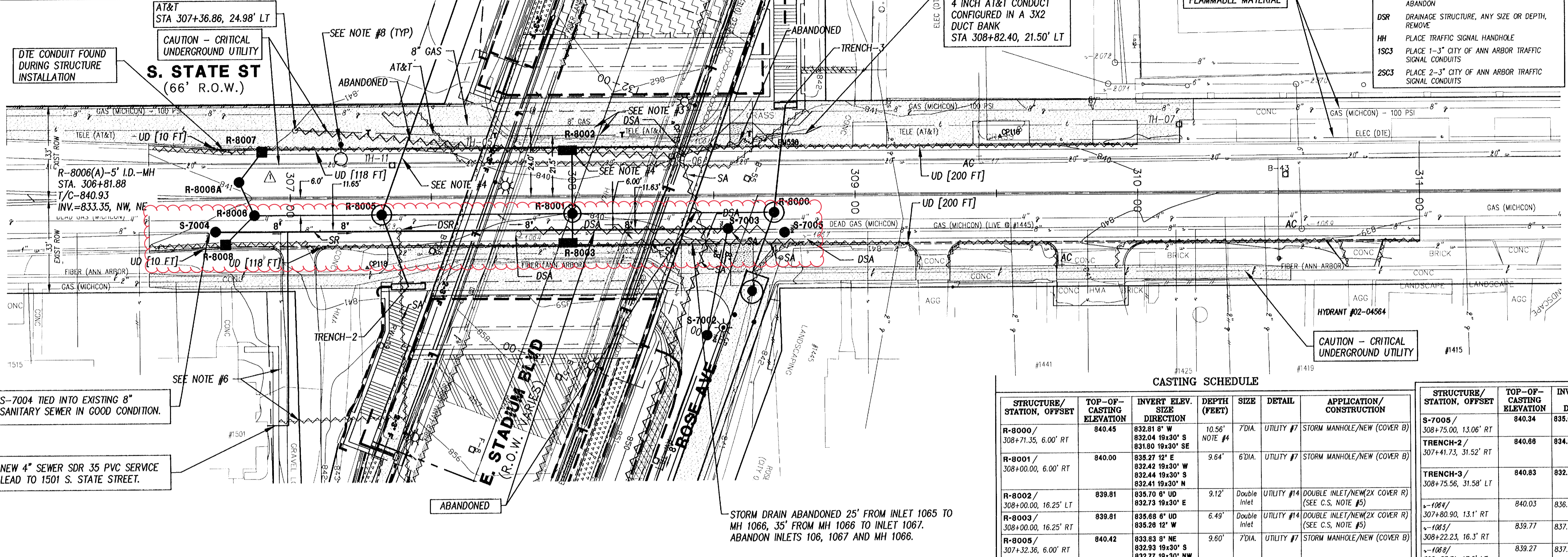
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City of Ann Arbor

TESTHOLES				
LABEL	ITEM	LOCATION (STATE ST)	EX GRND ELEV	TOP OF UTILITY ELEV
TH-05	AT&T	307+72.95, 17.2' LT	840.09	837.84
TH-06	AT&T	308+35.27, 13.8' LT	839.97	837.39
TH-07	AT&T	310+14.89, 24.0' LT	840.21	837.29
TH-11	WL	307+36.19, 11.4' LT	840.45	837.37

CONSTRUCTION KEY	
ABO	ADJUST BY OTHERS
AC	ADJUST CASING (INCLUDES GATE WELL, MONUMENT BOX, & VALVE BOX)
UD	PLACE 6" WRAPPED UNDERDRAIN
UDO	PLACE 6" UNDERDRAIN OUTLET
SR	SEWER PIPE REMOVAL
SA	SEWER PIPE ABANDONMENT
DSA	DRAINAGE STRUCTURE, ANY SIZE OR DEPTH, ABANDON
DSR	DRAINAGE STRUCTURE, ANY SIZE OR DEPTH, REMOVE
HH	PLACE TRAFFIC SIGNAL HANDHOLE
15C3	PLACE 1-3" CITY OF ANN ARBOR TRAFFIC SIGNAL CONDUITS
25C3	PLACE 2-3" CITY OF ANN ARBOR TRAFFIC SIGNAL CONDUITS

- NOTES**
- FOR EROSION CONTROL ITEMS SEE EROSION CONTROL SHEETS.
 - ALL STORM SEWER AND SANITARY SEWER WORK SHALL BE STAGED IN ACCORDANCE WITH THE CONSTRUCTION STAGING SHEETS AND SPECIAL PROVISIONS AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK, CONSTRUCTION METHODS, AND EQUIPMENT TO COMPLY WITH THE CONTRACTOR REQUIREMENTS.
 - THE EXISTING AT&T FIBER AND HIGH-PRESSURE DIE-MICHCON GAS LINES WILL BE RELOCATED BY THEIR OWNERS DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THESE EFFORTS WITH THE ROADWAY AND BRIDGE CONSTRUCTION AS DETAILED IN THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER. PAYMENT INCLUDED IN "MACHINE GRADING, MODIFIED, STATE".
 - DURING THE FULL CLOSURE OF S. STATE ST FOR THE REMOVAL OF THE BRIDGE (SEE "SPECIAL PROVISIONS FOR MAINTAINING TRAFFIC AND CONSTRUCTION SEQUENCING" FOR MORE INFORMATION), THE CONTRACTOR IS TO EXPOSE AND LOCATE EXISTING UTILITIES AT THE PROPOSED STORM SEWER CROSSINGS AT STA. 307+40 AND STA. 308+00 TO AID IN THE STORM SEWER ALIGNMENT. PAYMENT INCLUDED IN "SEWER, CI C 76 IV, 12 INCH, TR DET B, MODIFIED".
 - THE EXISTING UTILITIES SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AS OBTAINED THROUGH SURVEYS AND/OR EXISTING PLANS. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO BE SATISFIED AS TO ITS ACCURACY AND THE LOCATION OF EXISTING UTILITIES. IF STORM, SANITARY, OR WATERMANS CROSS WITH LESS THAN 18" CLEARANCE, THEY SHALL BE SADDLED (SEE DETAIL). IF STORM, SANITARY, OR WATERMANS CROSS OTHER UTILITIES, CONTACT THEIR RESPECTIVE OWNERS FOR INFORMATION ON HOW TO PROCEED. PAYMENT FOR THE COORDINATION EFFORTS, CONCRETE SADDLES, AND ASSOCIATED ITEMS SHALL BE INCLUDED IN ASSOCIATED PROPOSED STORM, SANITARY, OR WATERMAIN ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.
 - THE CONTRACTOR SHALL CAREFULLY PROTECT FROM DAMAGE OR INJURY DURING CONSTRUCTION OPERATIONS ALL UTILITIES NOT DESIGNATED FOR REMOVAL OR ABANDONMENT. PAYMENT FOR PROTECTION OF UTILITIES INCLUDED IN "MACHINE GRADING, MODIFIED, STATE". EXISTING FACILITIES NOT DESIGNATED FOR REMOVAL OR ABANDONMENT BUT WHICH ARE DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE, AS DETERMINED BY THE ENGINEER.
 - SEE LIGHTING PLANS FOR DETAILS ON REMOVAL AND CONSTRUCTION OF STREET LIGHTS AND UNDERGROUND ELECTRICAL SERVICE LINES.



DTE CONDUIT FOUND DURING STRUCTURE INSTALLATION

CAUTION - CRITICAL UNDERGROUND UTILITY

4 INCH AT&T CONDUIT CONFIGURED IN A 3X2 DUCT BANK STA 308+82.40, 21.50' LT

HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION - CRITICAL UNDERGROUND UTILITY

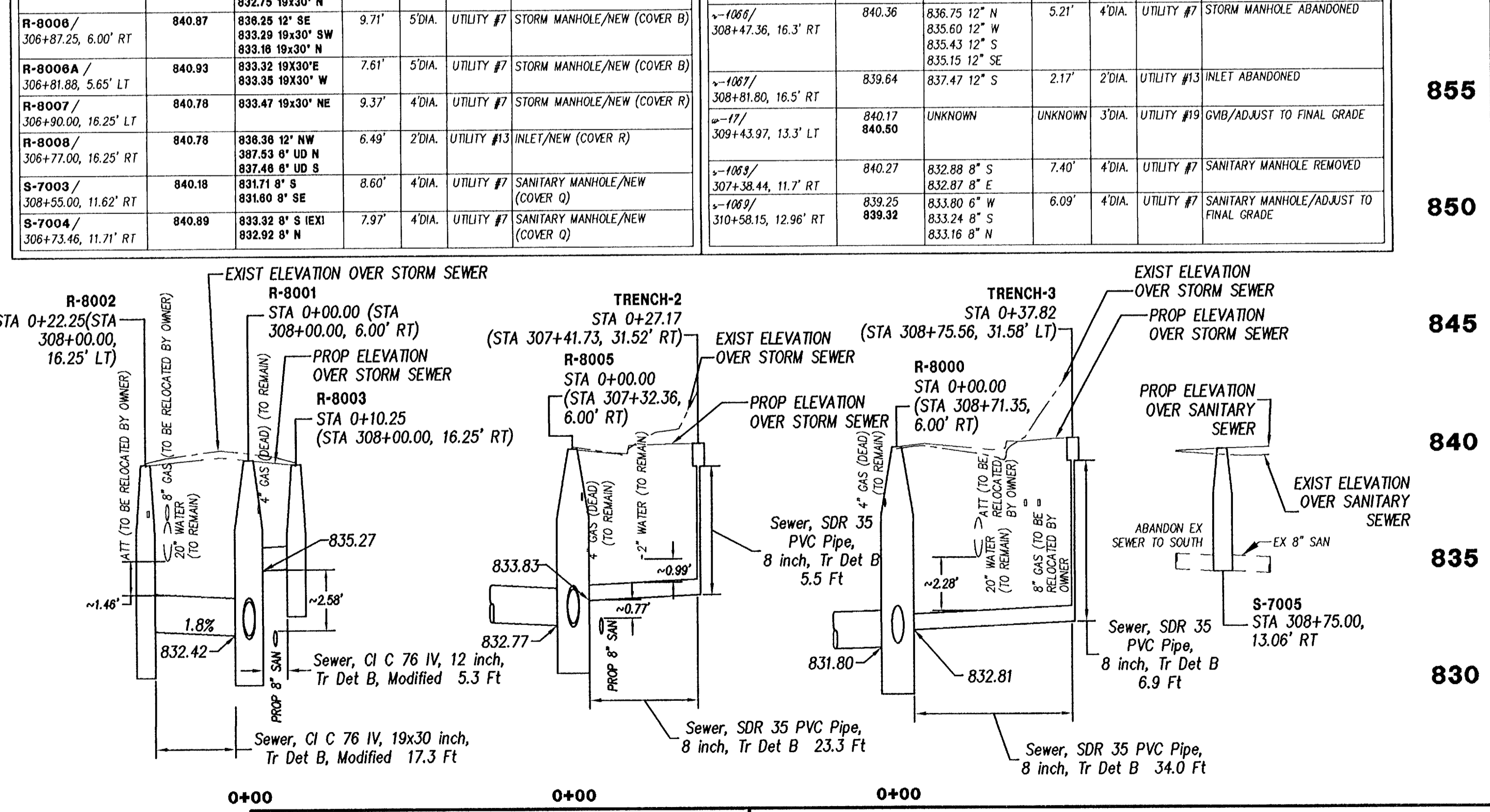
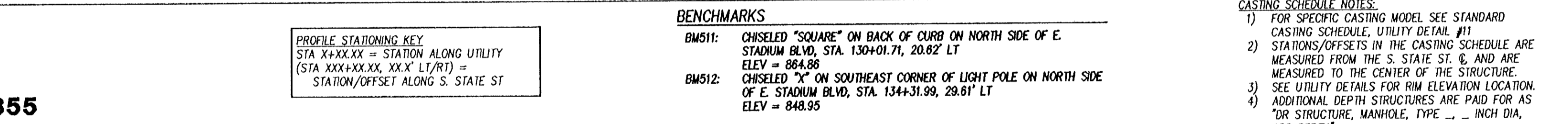
S-7004 TIED INTO EXISTING 8" SANITARY SEWER IN GOOD CONDITION.

NEW 4" SEWER SDR 35 PVC SERVICE LEAD TO 1501 S. STATE STREET.

STORM DRAIN ABANDONED 25' FROM INLET 1065 TO MH 1066, 35' FROM MH 1066 TO INLET 1067. ABANDON INLETS 106, 1067 AND MH 1066.

STRUCTURE/STATION, OFFSET	TOP-OF-CASTING ELEVATION	INVERT ELEV. SIZE DIRECTION	DEPTH (FEET)	SIZE	DETAIL	APPLICATION/CONSTRUCTION
R-8000/308+71.35, 6.00' RT	840.45	832.81 8" W 831.80 19x30" S	10.56' NOTE #4	7 DIA.	UTILITY #7	STORM MANHOLE/NEW (COVER B)
R-8001/308+00.00, 6.00' RT	840.00	835.27 12" E 832.42 19x30" W 832.44 19x30" S 832.41 19x30" N	9.64'	6 DIA.	UTILITY #7	STORM MANHOLE/NEW (COVER B)
R-8002/308+00.00, 16.25' LT	839.81	835.70 8" UD 832.73 19x30" E	9.12'	Double Inlet	UTILITY #14	DOUBLE INLET/NEW (2X COVER R) (SEE C.S. NOTE #5)
R-8003/308+00.00, 16.25' RT	839.81	835.68 8" UD 835.28 12" W	6.49'	Double Inlet	UTILITY #14	DOUBLE INLET/NEW (2X COVER R) (SEE C.S. NOTE #5)
R-8005/307+32.36, 6.00' RT	840.42	833.03 8" NE 832.93 19x30" S 832.77 19x30" NW 832.75 19x30" N	9.60'	7 DIA.	UTILITY #7	STORM MANHOLE/NEW (COVER B)
R-8006/306+87.25, 6.00' RT	840.97	838.25 12" SE 833.29 19x30" SW 833.19 19x30" N	9.71'	5 DIA.	UTILITY #7	STORM MANHOLE/NEW (COVER B)
R-8008A/306+81.88, 5.65' LT	840.93	833.32 19x30" E 833.35 19x30" W	7.61'	5 DIA.	UTILITY #7	STORM MANHOLE/NEW (COVER B)
R-8007/306+90.00, 16.25' LT	840.78	833.47 19x30" NE	9.37'	4 DIA.	UTILITY #7	STORM MANHOLE/NEW (COVER B)
R-8008/306+77.00, 16.25' RT	840.78	836.38 12" NW 837.53 8" UD N 837.48 8" UD S	6.49'	2 DIA.	UTILITY #13	INLET/NEW (COVER R)
S-7003/308+55.00, 11.62' RT	840.18	831.71 8" S 831.60 8" SE	8.60'	4 DIA.	UTILITY #7	SANITARY MANHOLE/NEW (COVER O)
S-7004/306+73.46, 11.71' RT	840.89	833.32 8" IEXI 832.92 8" N	7.97'	4 DIA.	UTILITY #7	SANITARY MANHOLE/NEW (COVER O)

STRUCTURE/STATION, OFFSET	TOP-OF-CASTING ELEVATION	INVERT ELEV. SIZE DIRECTION	DEPTH (FEET)	SIZE	DETAIL	APPLICATION/CONSTRUCTION
S-7005/308+75.00, 13.06' RT	840.34	835.09 8" N IEXI	5.27'	4 DIA.	UTILITY #7	SANITARY MANHOLE/NEW (COVER O)
TRENCH-2/307+41.73, 31.52' RT	840.88	834.14 8" W	2.50'	N/A	UTILITY #12	TRENCH DRAIN/NEW (EAW V-7386-20 OR EQUIVALENT) (12' LENGTH)
TRENCH-3/308+75.56, 31.58' LT	840.83	832.95 8" E	2.50'	N/A	UTILITY #12	TRENCH DRAIN/NEW (EAW V-7386-20 OR EQUIVALENT) (8' LENGTH)
--1064/307+80.90, 13.1' RT	840.03	836.01 8" N	4.02'	4 DIA.	UTILITY #7	SANITARY MANHOLE REMOVED
--1065/308+22.23, 16.3' RT	839.77	837.16 12" NW	2.61'	2 DIA.	UTILITY #13	INLET ABANDONED
--1066/308+37.71, 17.0' LT	839.27	837.12 12" E	2.15'	2 DIA.	UTILITY #13	INLET ABANDONED
--1067/308+47.36, 16.3' RT	840.36	836.75 12" N 835.60 12" W 835.43 12" S 835.15 12" SE	5.21'	4 DIA.	UTILITY #7	STORM MANHOLE ABANDONED
--1067/308+81.80, 16.5' RT	839.64	837.47 12" S	2.17'	2 DIA.	UTILITY #13	INLET ABANDONED
--17/309+43.97, 13.3' LT	840.17 840.50	UNKNOWN	UNKNOWN	3 DIA.	UTILITY #19	GWB/ADJUST TO FINAL GRADE
--1068/307+38.44, 11.7' RT	840.27	832.88 8" S 832.87 8" E	7.40'	4 DIA.	UTILITY #7	SANITARY MANHOLE REMOVED
--1069/310+58.15, 12.96' RT	839.25 839.32	833.80 6" W 833.24 8" S 833.16 8" N	6.09'	4 DIA.	UTILITY #7	SANITARY MANHOLE/ADJUST TO FINAL GRADE



LEGEND		EXIST. UTILITY POLE & GUY		EXIST. ELECTRIC		PROP. POST TOP LIGHT		PROP. INTEGRAL CURB & GUTTER		PROP. MSE WALL	
EXIST. FENCE	---	RD. & GRADE	○	RD. & GRADE	○	STREET LIGHT & CONDUIT	○	CONC. CURB & GUTTER	---	REINF. CONC. PAVT.	---
CONTOUR	---	LEFT EDGE/RD. GRADE	○	LEFT EDGE/RD. GRADE	○	SANITARY SEWER & MANHOLE	○	FENCE	---	THICKENED HMA PAVT.	---
STORM SEWER & CAT. BAS.	---	RIGHT EDGE/RD. GRADE	○	RIGHT EDGE/RD. GRADE	○	STORM SEWER & CAT. BAS.	○	VEHICLE BARRIER RAILING	---	AGGREGATE SURFACE	---
WATER MAIN & VALVE-IN-WELL	---	CURB & GUTTER	---	CURB & GUTTER	---	WATER MAIN W/F/H. ASSEM.	○	CONCRETE SIDEWALK	---	STONE WALL	---
WATER MAIN & VALVE-IN-BOX	---	CURB & GUTTER (REM.)	---	CURB & GUTTER (REM.)	---	TRANSITION SECTION	○	TRANSITION SECTION	---	STONE SLOPE	---
SANITARY SEWER & MANHOLE	---	RELOC. STREET LIGHT	○	RELOC. STREET LIGHT	○	FULL DEPTH TRENCH	---	FULL DEPTH TRENCH	---		

NCI NORTHWEST CONSULTANTS, INC.

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

E. STADIUM BLVD BRIDGES REPLACEMENT PROJECT UTILITIES

S. STATE ST STA. 308+00 TO STA. 311+50

ASBULTS	04/05/13	KM
RELOCATED 8007	05/18/12	
ORIGINAL ISSUE	07/20/11	SR AK

REV. NO. DESCRIPTION DATE DR. BY CH. BY

APPROVED BY: _____

SCALE: HORIZ. 1"=20' VERT. 1"=4'

DRAWING NO. 2006-045-UT7

SHEET NO. 50 OF 358

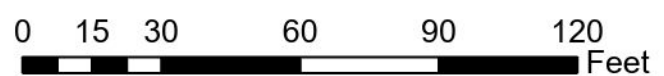


S State St

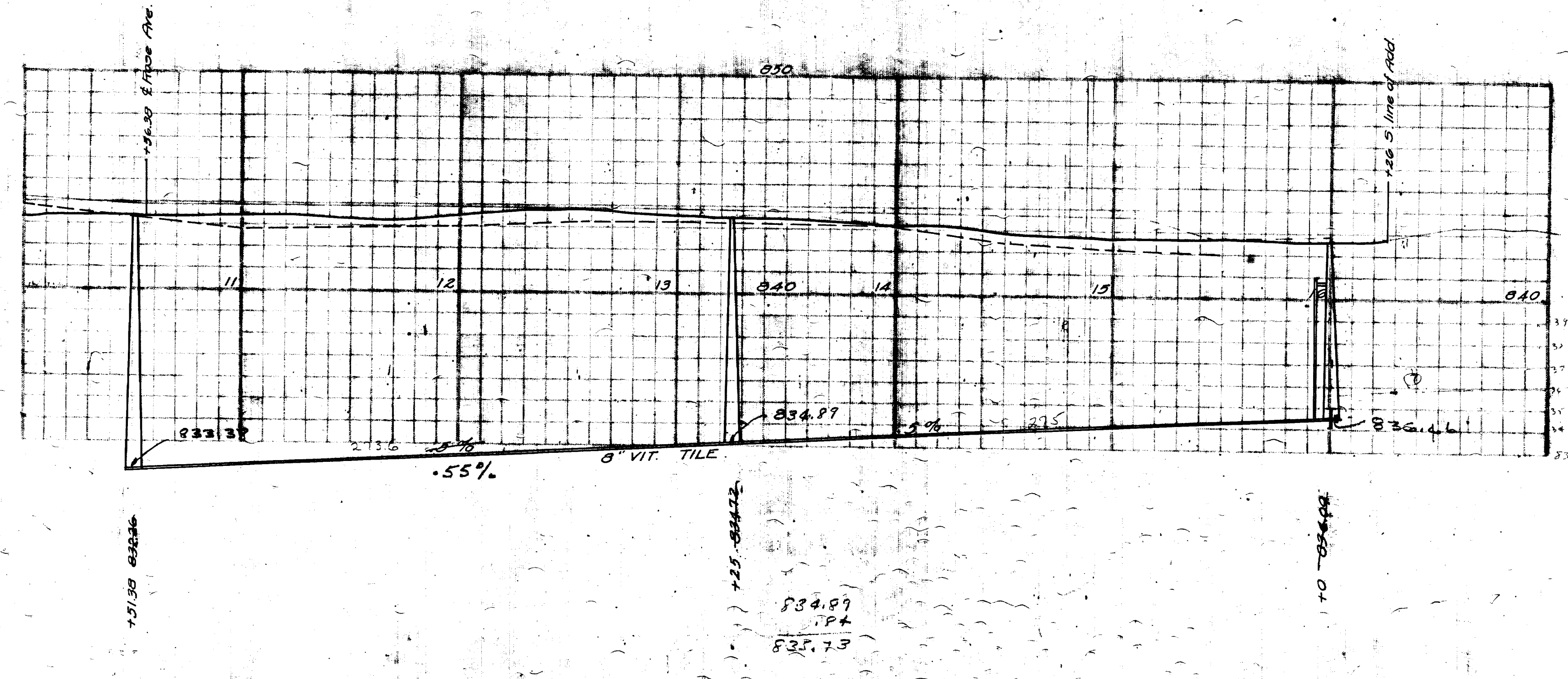
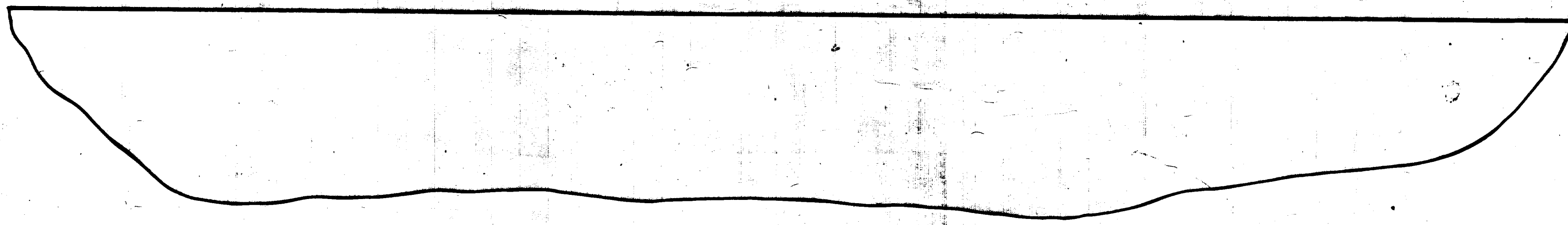
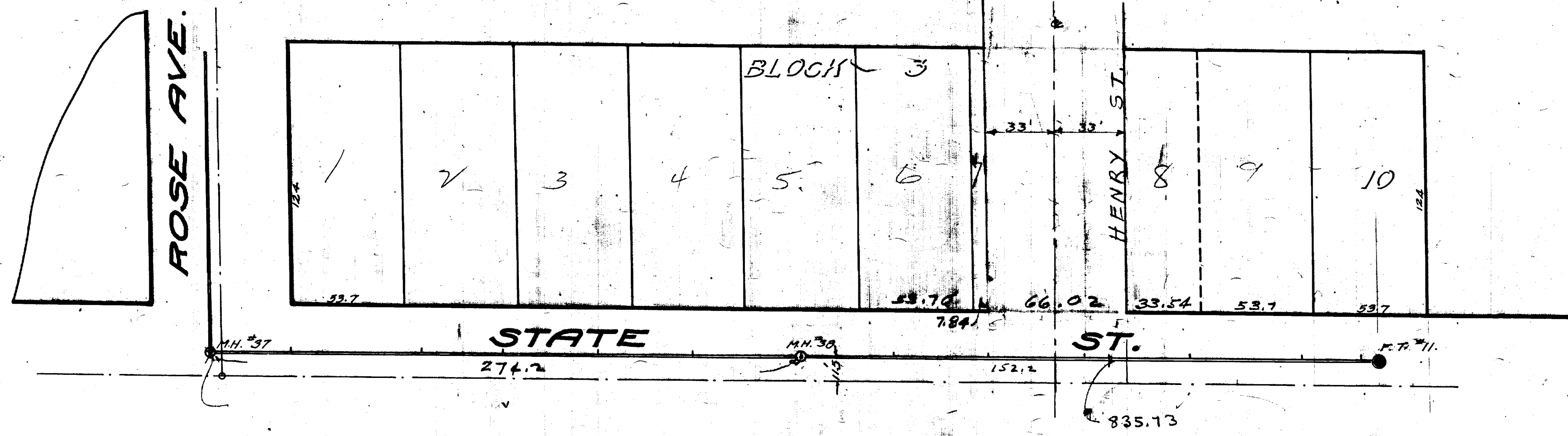
- Manhole
- Sanitary Main
- Proposed Lining
- Sanitary Lateral

71-XXXXX (Manhole ID)

X.XX' (Manhole Depth)



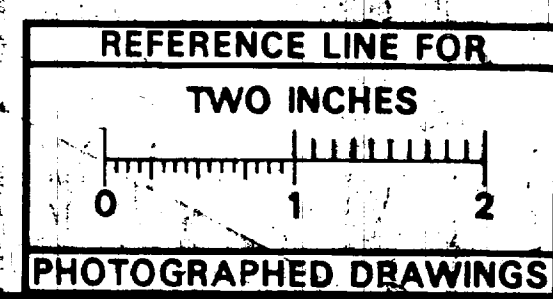
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MEASUREMENTS TO HOUSE CONNECTIONS On State St from Rose Ave South Sta O=M.H. @ Rose Ave.

East	
48	Ys Only
100	
130	
183	
228	
276	27A=M.H.
323	
380	
413	
463	
516	
544	549=FT.

Digital Status
Scanned On: 9-3-04
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:



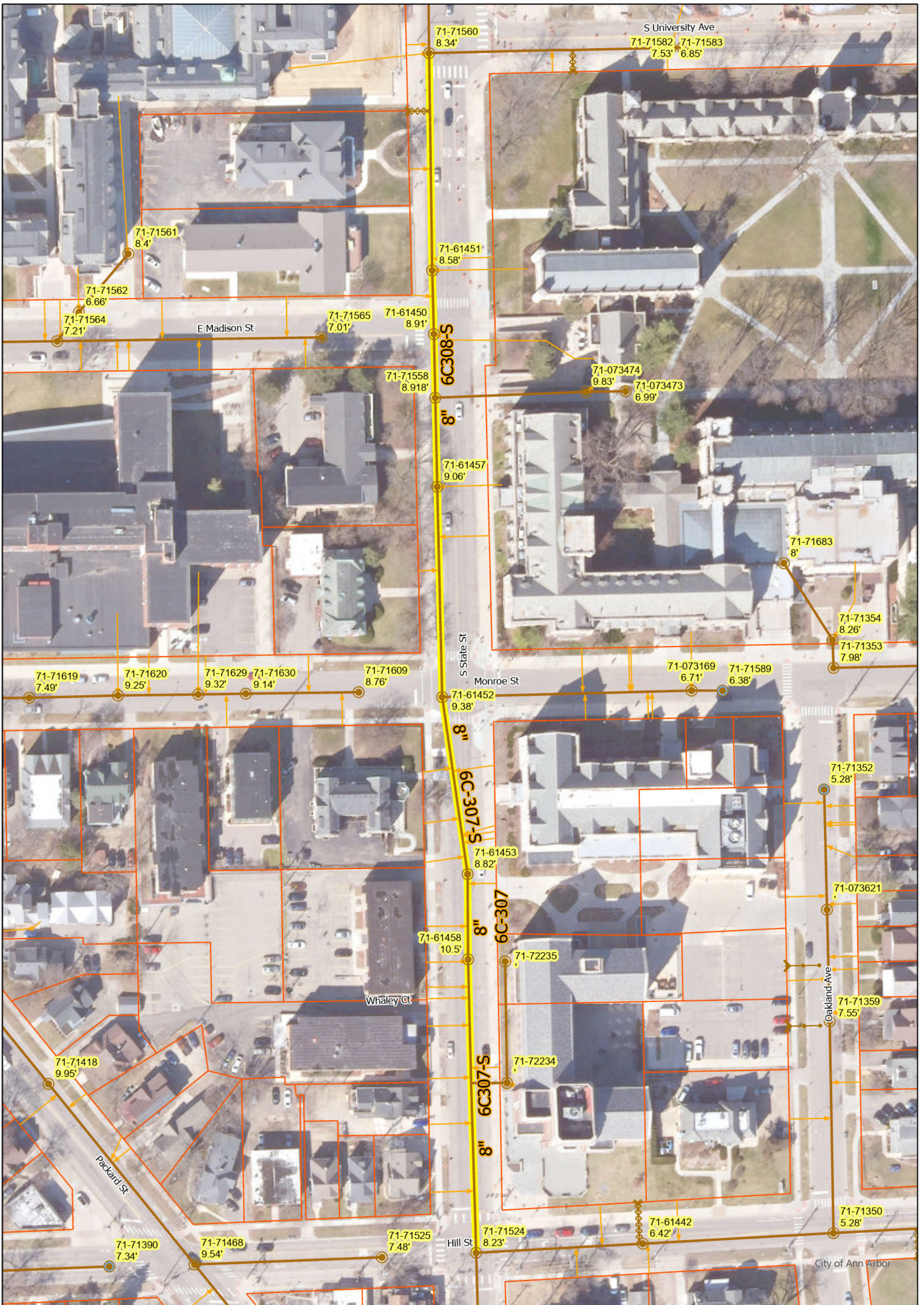
SHEET No. 283
INDEX No. 932
SHELF No. 6
SIZE C
SUB No. 317

Drawn by *SIRMAN*
Traced by *SIRMAN*
Checked by *J*

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
DISTRICT No. SHEET No. 5.
STATE ST.
ROSE AVE. — SOUTH.

Manley Osgood, City Engineer
1915-6

Scales - Plan 1"=40' Profile Hor 1"=40' Ver 1"=4'
Four Sheets Sheet 5



S State St

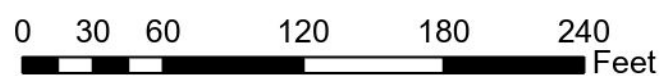
-  Manhole, Flush Tank
-  Sanitary Main
-  Sanitary Lateral
-  Manhole
-  Sanitary Lateral, Plugged
-  Sanitary Lateral, Abandoned
-  Proposed Lining

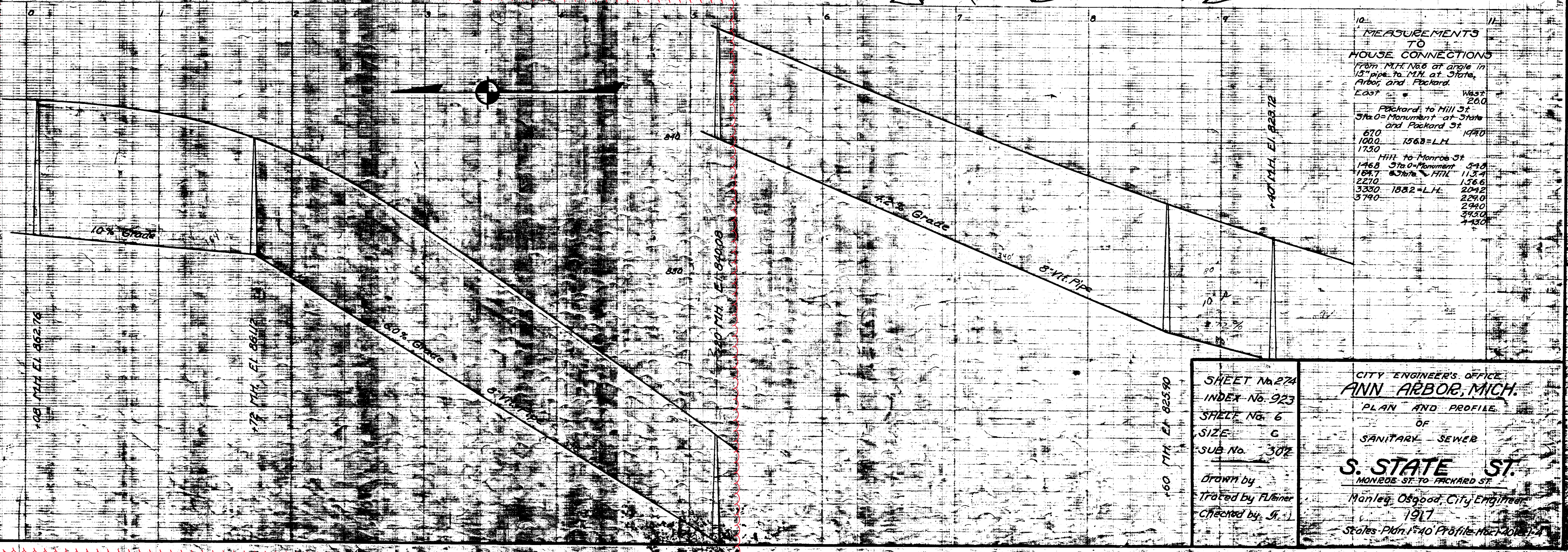
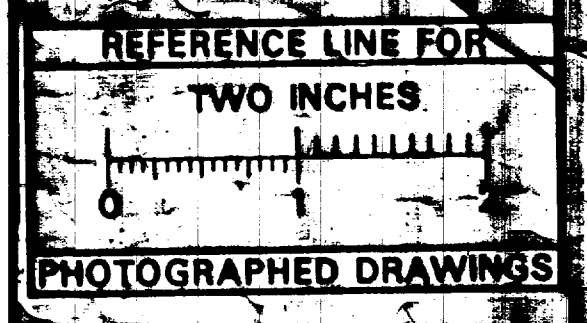
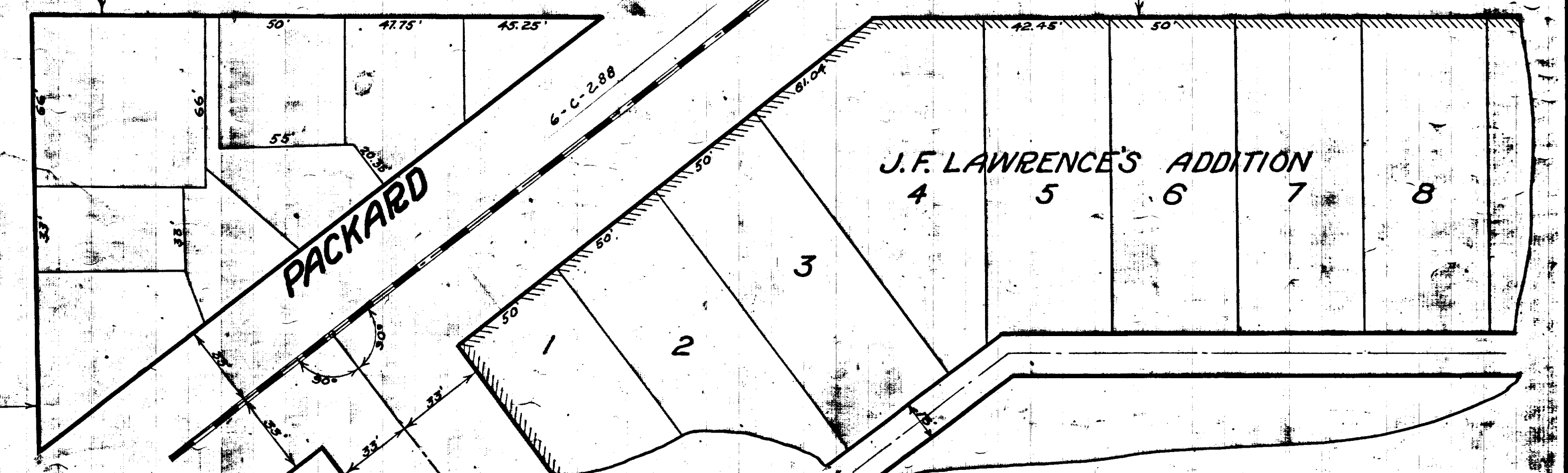
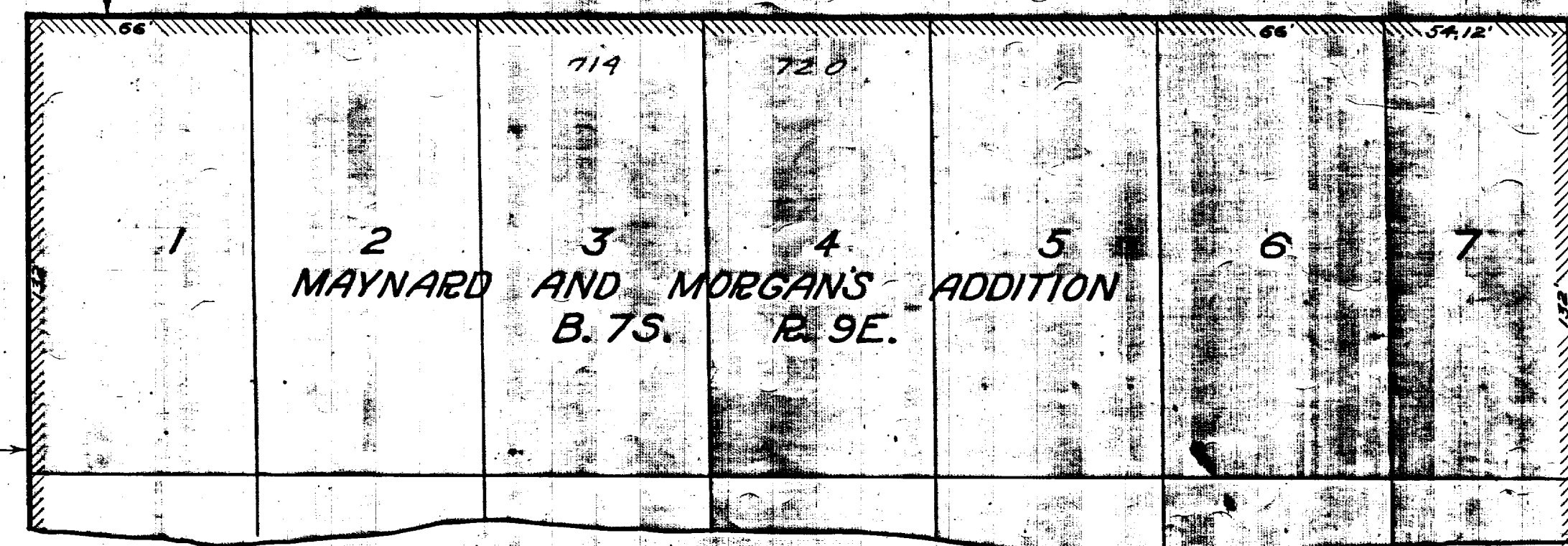
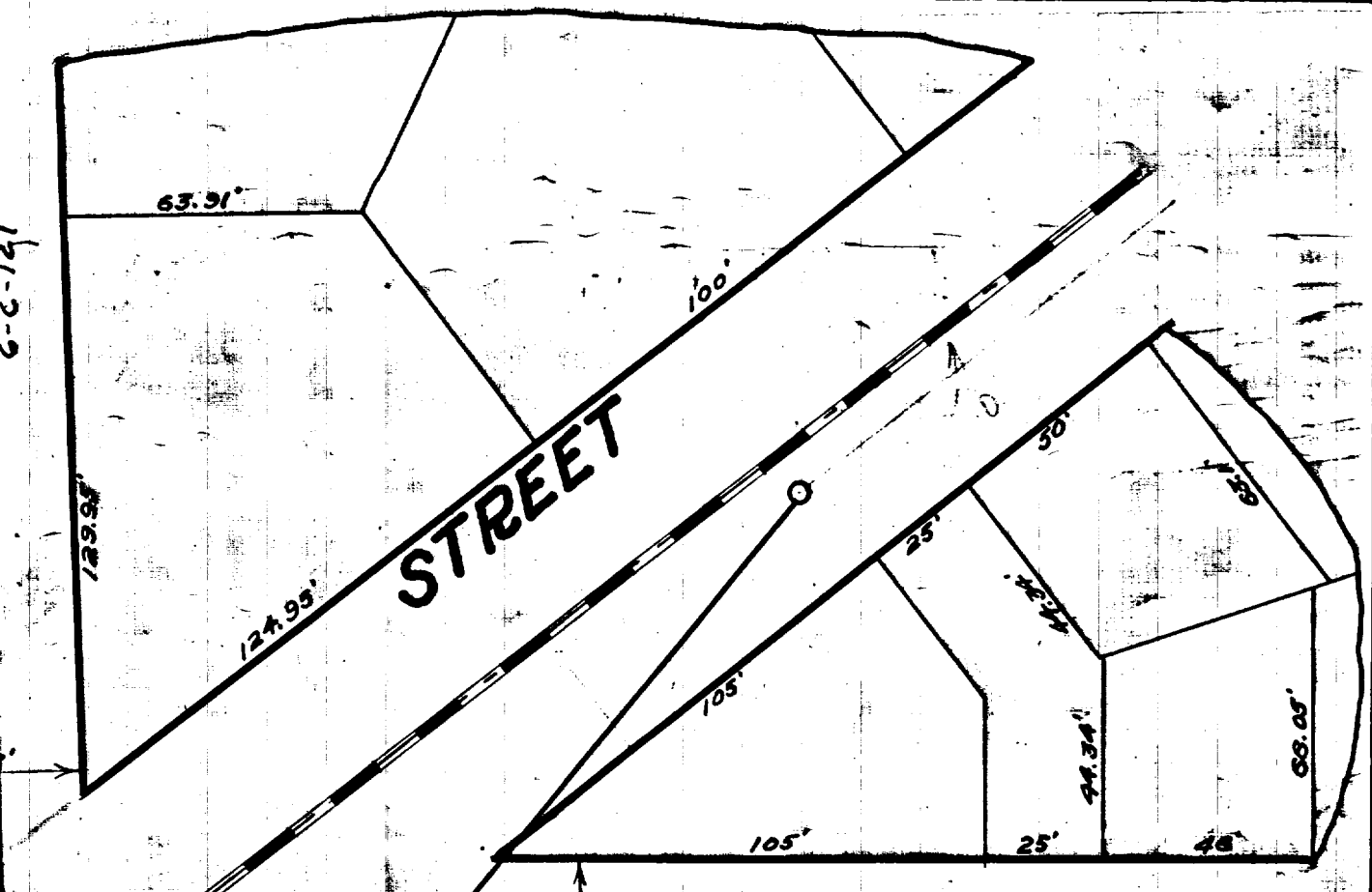
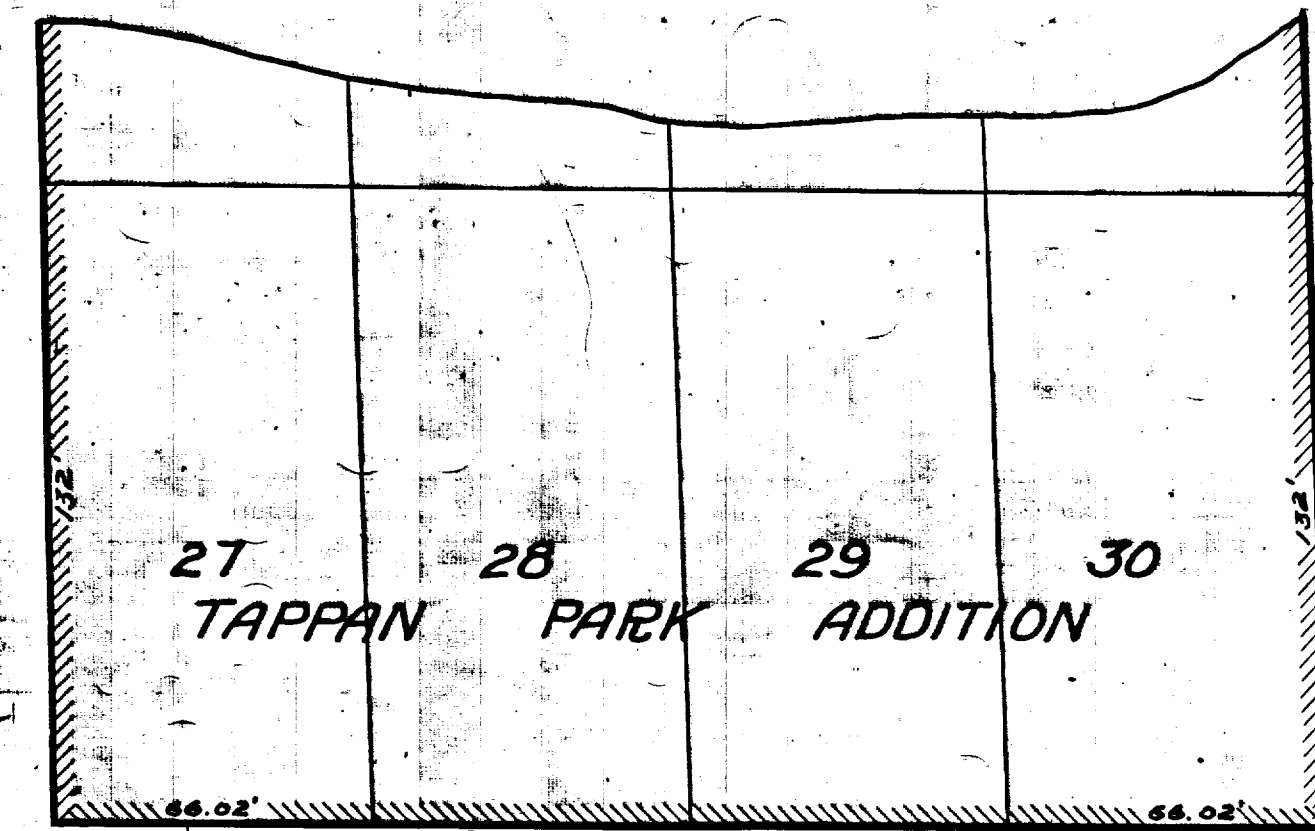
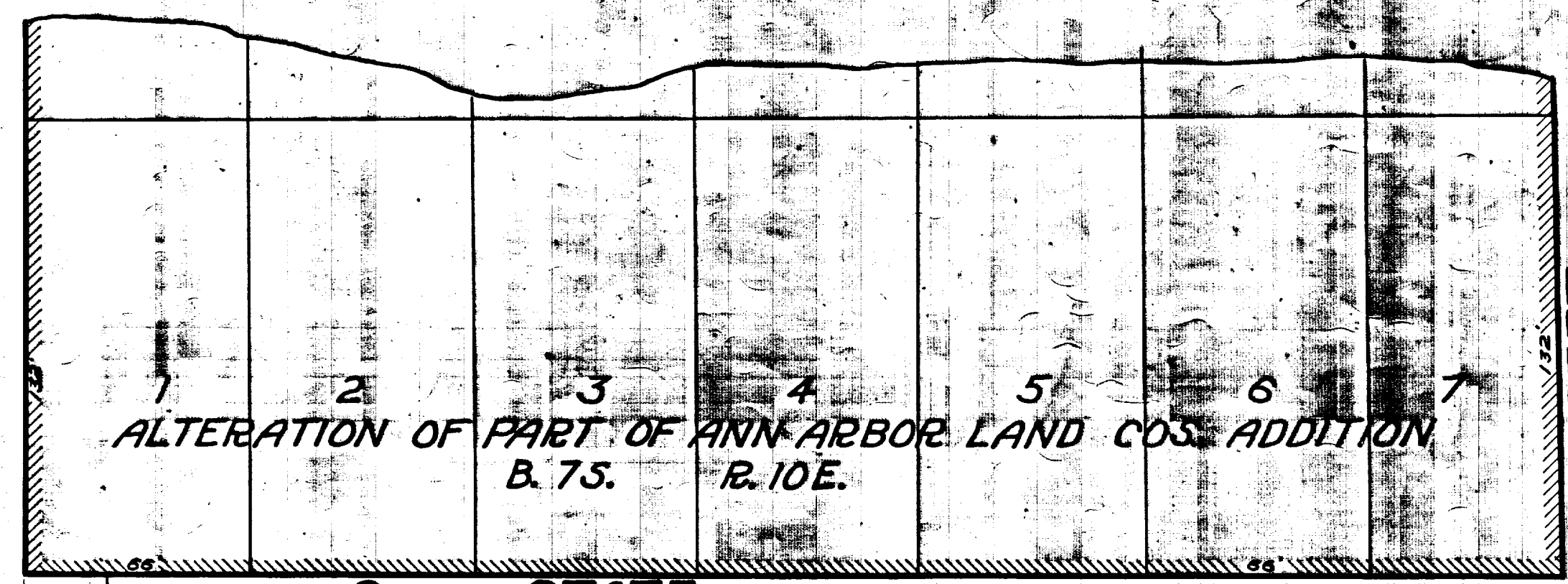
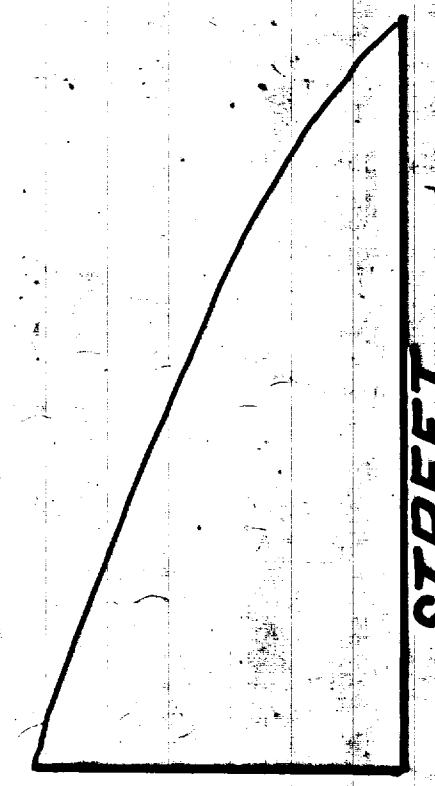
71-XXXX (Manhole ID)

X.XX' (Manhole Depth)



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MEASUREMENTS TO HOUSE CONNECTIONS

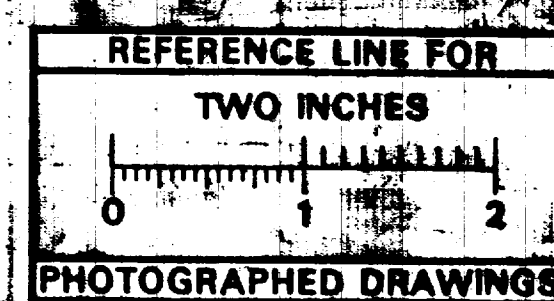
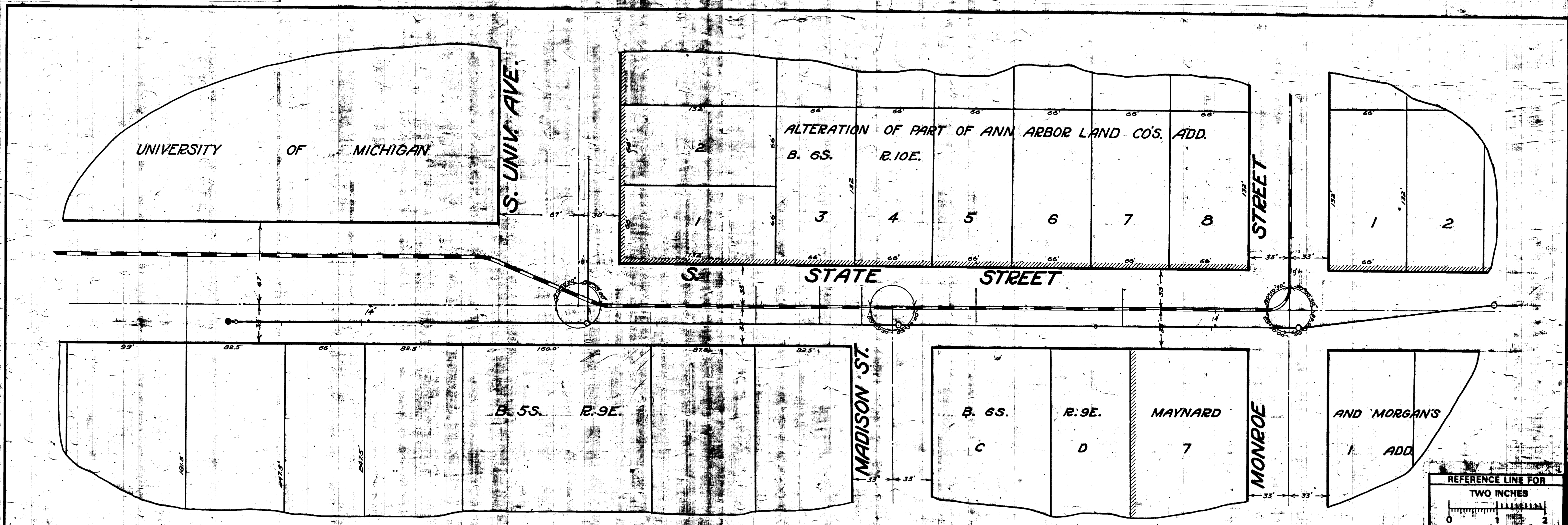
From M.P. No. 6 at angle in 1/2" pipe to M.P. at State, Arbor and Packard.

East	West
Packard to Hill St	20.0
Sta. 0 = Monument at State and Packard St	19.0
670	156.8 = L.H.
1000	
1730	
Hill to Monroe St	
1468	Sta. 0 = Monument
1087	to Hill
1210	156.8
3330	183.2 = L.H.
3790	224.0
	294.0
	373.0
	443.0

Digital Status
Scanned On: 9-3-04
By: DGK
Despeckled: Yes
Vector: Yes
O.C.R.: Yes

SHEET No. 274
INDEX No. 923
SHEET No. 6
SIZE C
SUB No. 307
Drawn by
Traced by F. L. Miller
Checked by J. J.

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
S. STATE ST.
MONROE ST. TO PACKARD ST.
Manley Osgood, City Engineer
1917
States Plan No. 140 Profile No. 10174



MEASUREMENTS TO HOUSE CONNECTIONS

North to S. Univ.

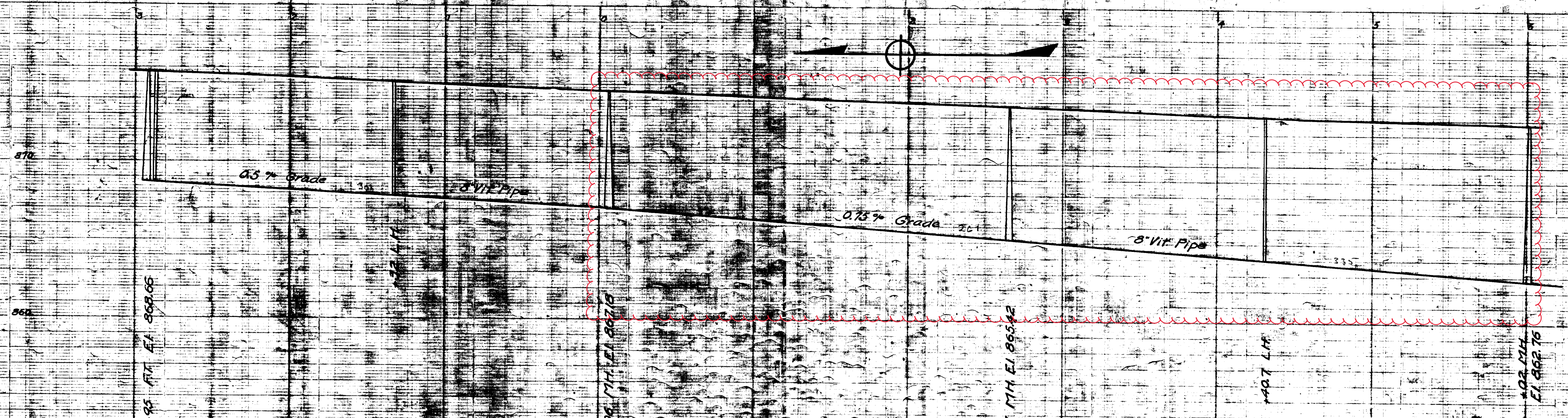
Sta. 0+4 of Monroe	West	820
East	1060	
1095	1060	
2520	1700	
3473	2480	
3580	2070	
4165		

1014 = E.H.
3005 = M.H.
3500 = M.H.

S. Univ. to Jefferson
Sta. 0+4 of S. Univ.

20
610
1910
2480
2070

1020 = E.H.
2960 = F.T.



Digital Status
Scanned On: 9-3-04
By: DGK
Despchecked: Yes
Victory
O.C.R.

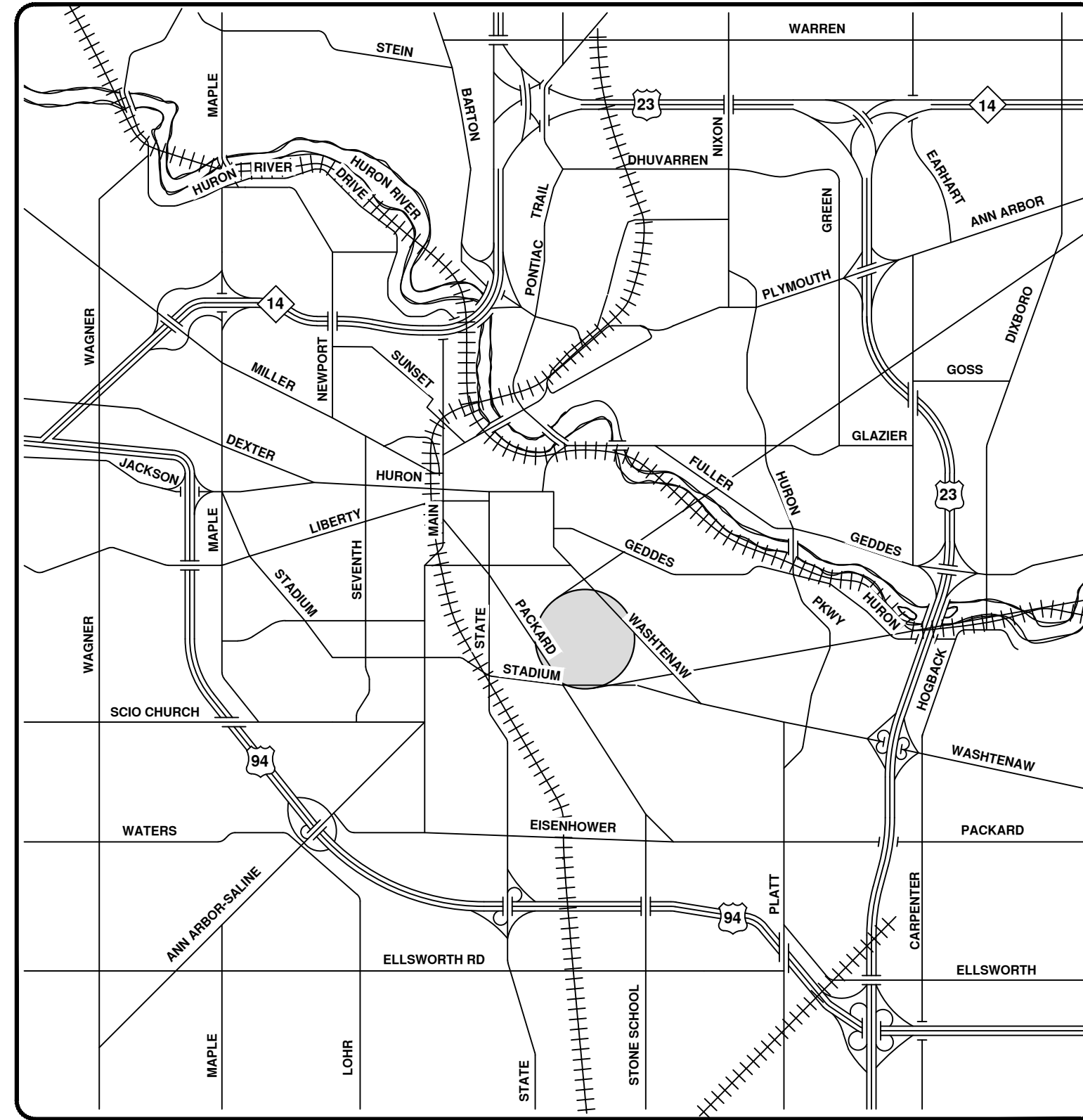
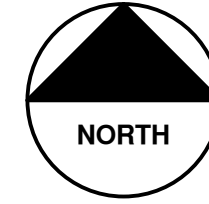
SHEET No. 275
INDEX No. 924
SHELF No. 6
SIZE C
SUB No. 308
Drawn by
Traced by F. Deiner
Checked by

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

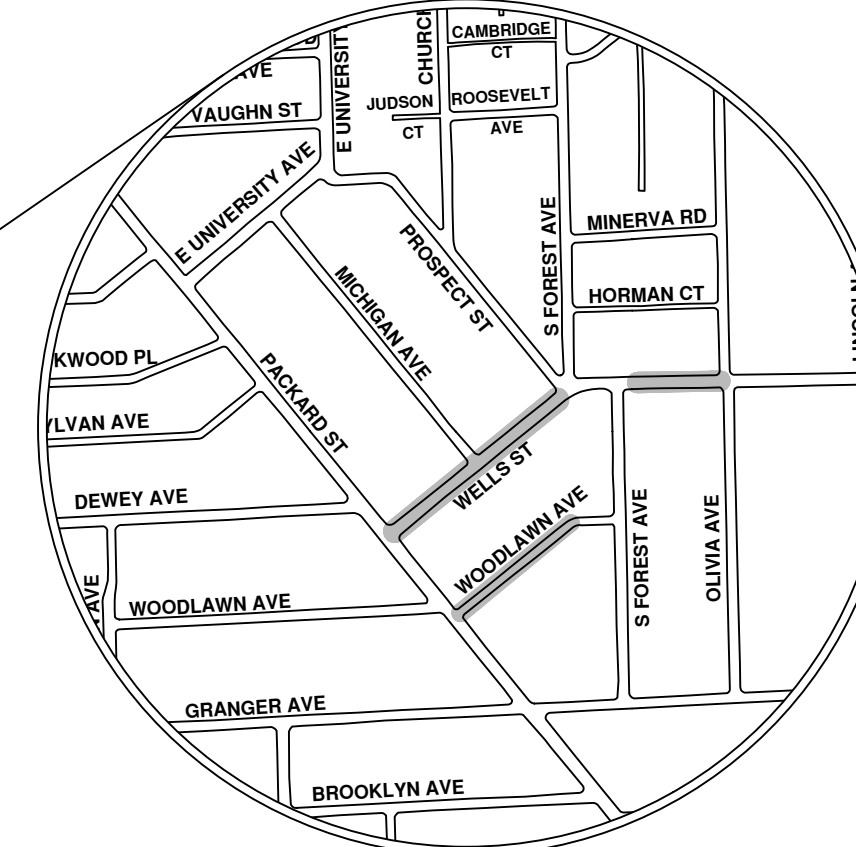


2023 SEWER LINING PROJECT

WELLS ST & WOODLAWN AVE



VICINITY MAP

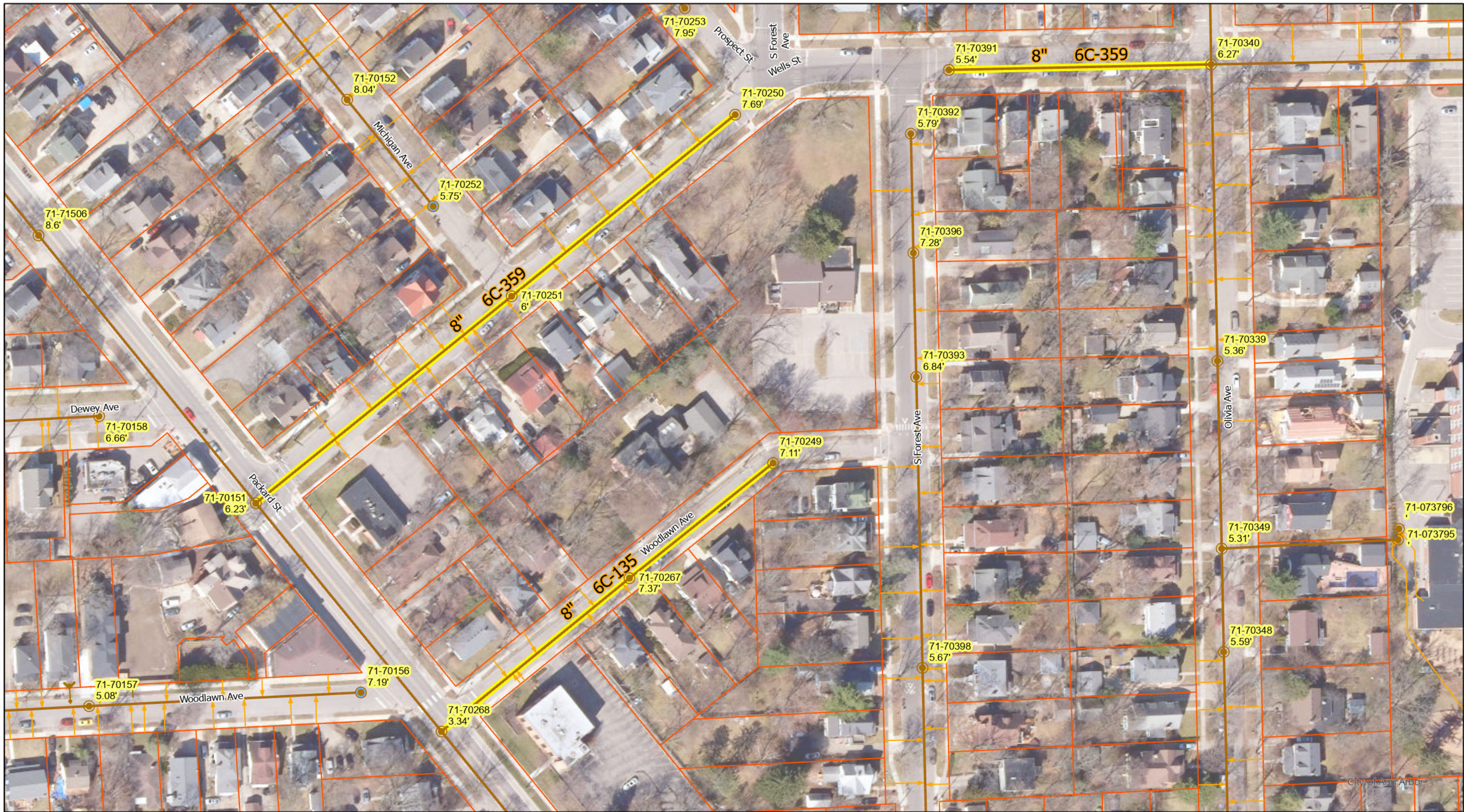


R:\2023011 Sewer Lining_2023\Plan Production\2023011CovSan.dwg - _a2_standard bw.stb - Plot Date: 8/4/2023 10:55:51 AM



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 - ENGINEERING		CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MICHIGAN 48107-8647 734-794-6410 www.a2gov.org	
SCALE	DRAWING No.	DESCRIPTION	REV.
	2023011-82	BID SET	00
		DATE	8/4/23
		DRAWN	ARG
		CHECKED	IK
		Know what's below. Call Before you dig.	



- Manhole, Flush Tank
- Manhole
- Sanitary Main
- Sanitary Lateral, Abandoned
- Sanitary Lateral
- Proposed Lining

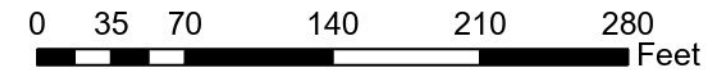
71-XXXXX (Manhole ID)

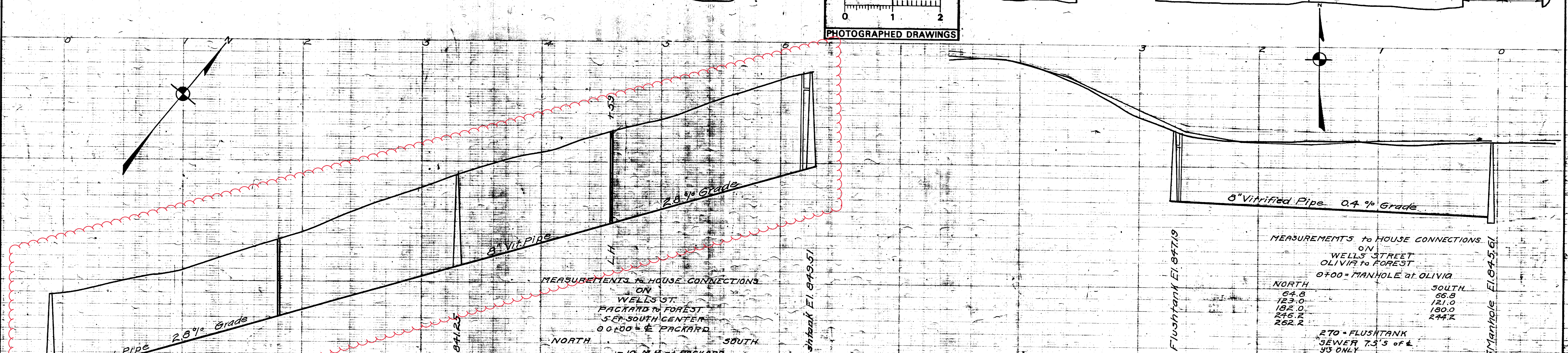
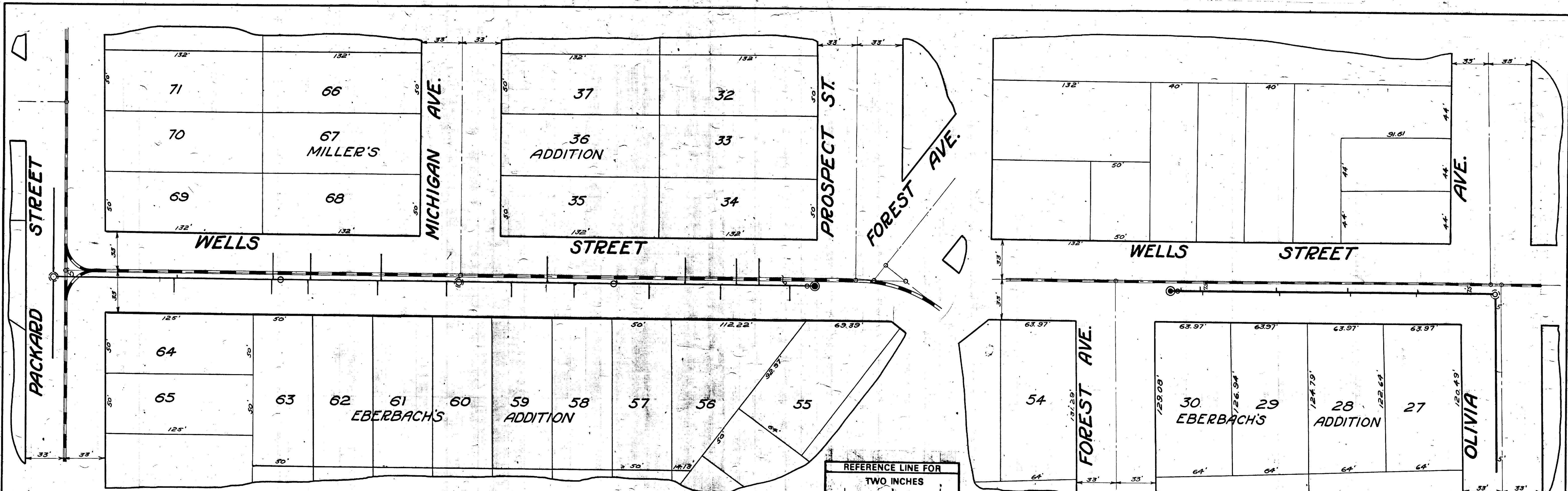
X.XX' (Manhole Depth)



Wells St & Woodlawn Ave

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MEASUREMENTS TO HOUSE CONNECTIONS ON WELLS ST. PACKARD TO FOREST 5 FT SOUTH CENTER 00+00 = E PACKARD

NORTH	SOUTH
930	910
1733	1713
2040	2020
2630	2610
4120	3184
4397	3715
5177	4240
5778	4864
	5464
	6040

330 FT. S. OF THE HIGHWAY 225 FT. S. OF FOREST AV.

MEASUREMENTS TO HOUSE CONNECTIONS ON WELLS STREET OLIVIA TO FOREST 0+00 = MANHOLE AT OLIVIA

NORTH	SOUTH
64.8	66.8
123.0	121.0
182.0	180.0
246.2	244.2
262.2	

270 = FLUSATANK SEWER 7.5'S OF E. 'S ONLY

SHEET No. 325
 INDEX No. 974
 SHELF No. 6
 SIZE C
 SUB No. 359

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
 PLAN AND PROFILE
 OF
 SANITARY SEWER
WELLS ST.
 PACKARD ST. TO OLIVIA AVE.
 Manley Osgood, City Engineer.
 1917

Drawn by G.H.S.
 Traced by Person
 Checked by

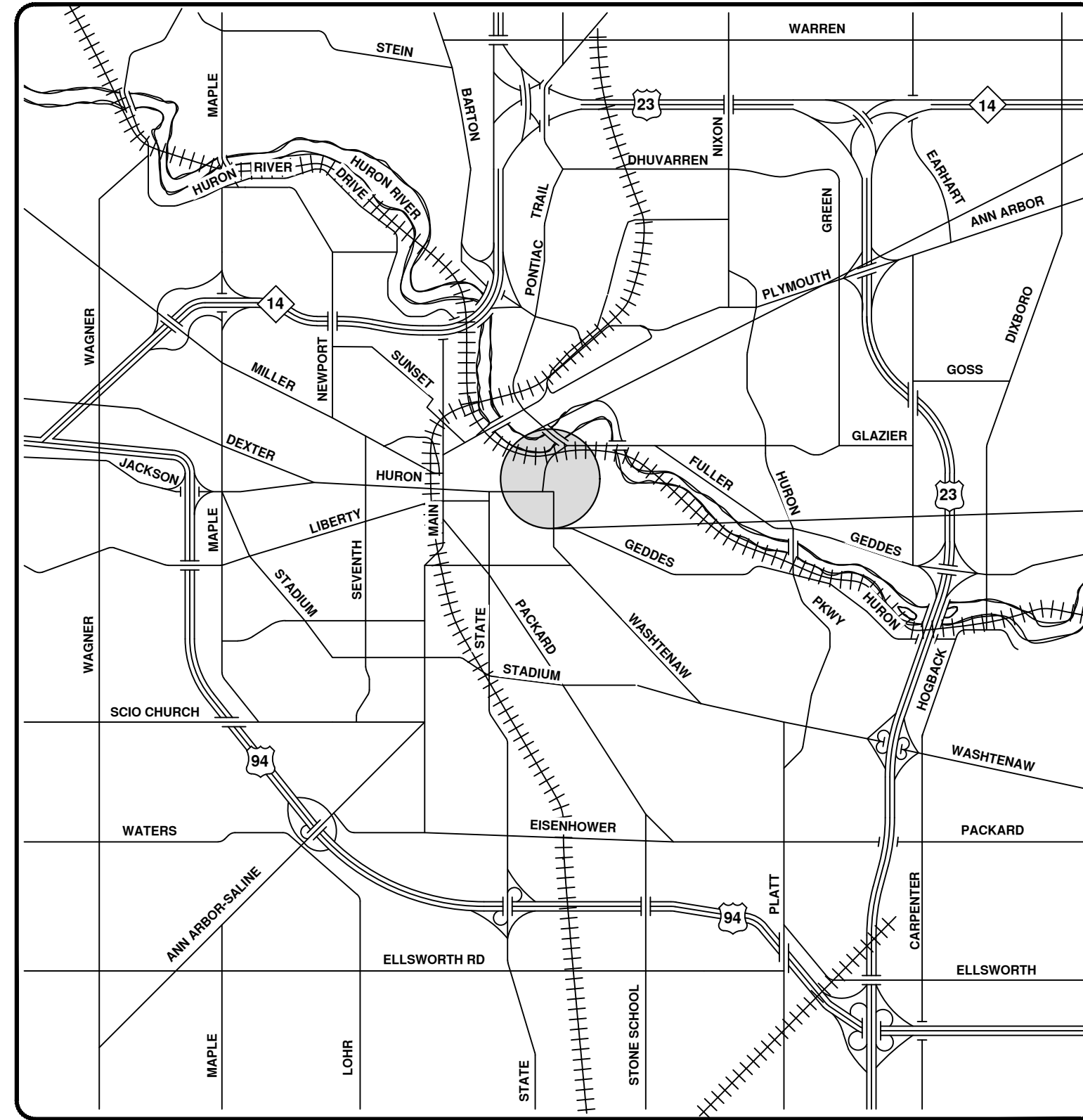
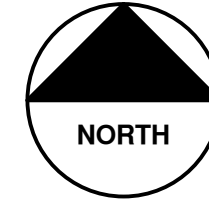
Scales - Plan 1" = 40' Profile Horizontal 1" = 4'

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

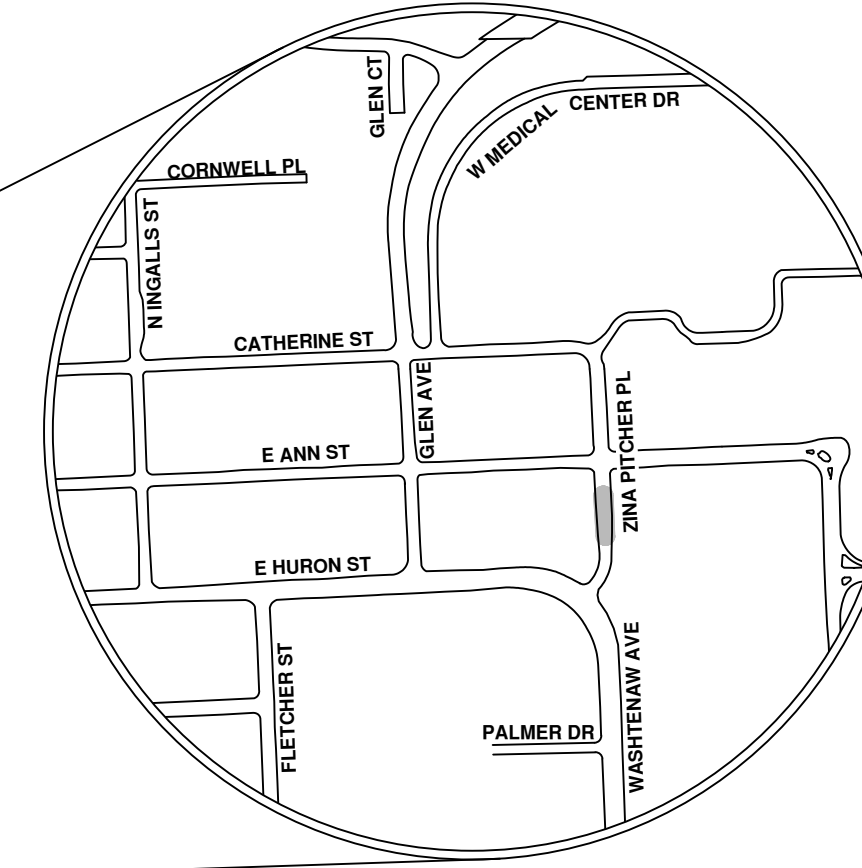


2023 SEWER LINING PROJECT

ZINA PITCHER PL



VICINITY MAP



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

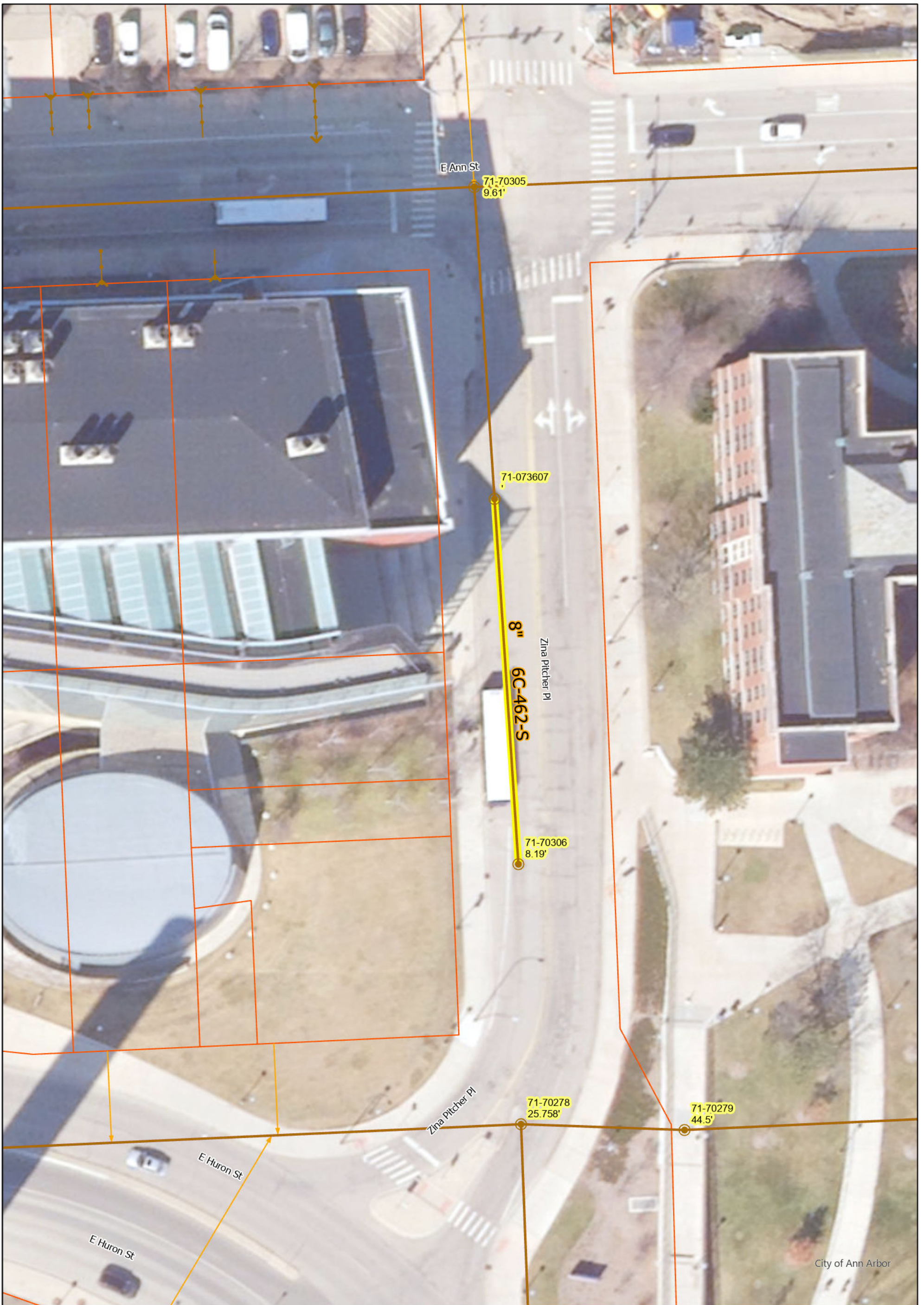


REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	8/4/23	ARG	IK

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. 2023011-86



Zina Pitcher Pl

● Manhole

— Sanitary Main

— Proposed Lining

— Sanitary Lateral, Abandoned

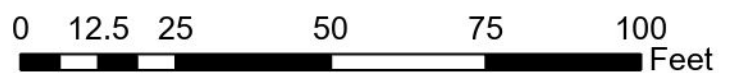
— Sanitary Lateral

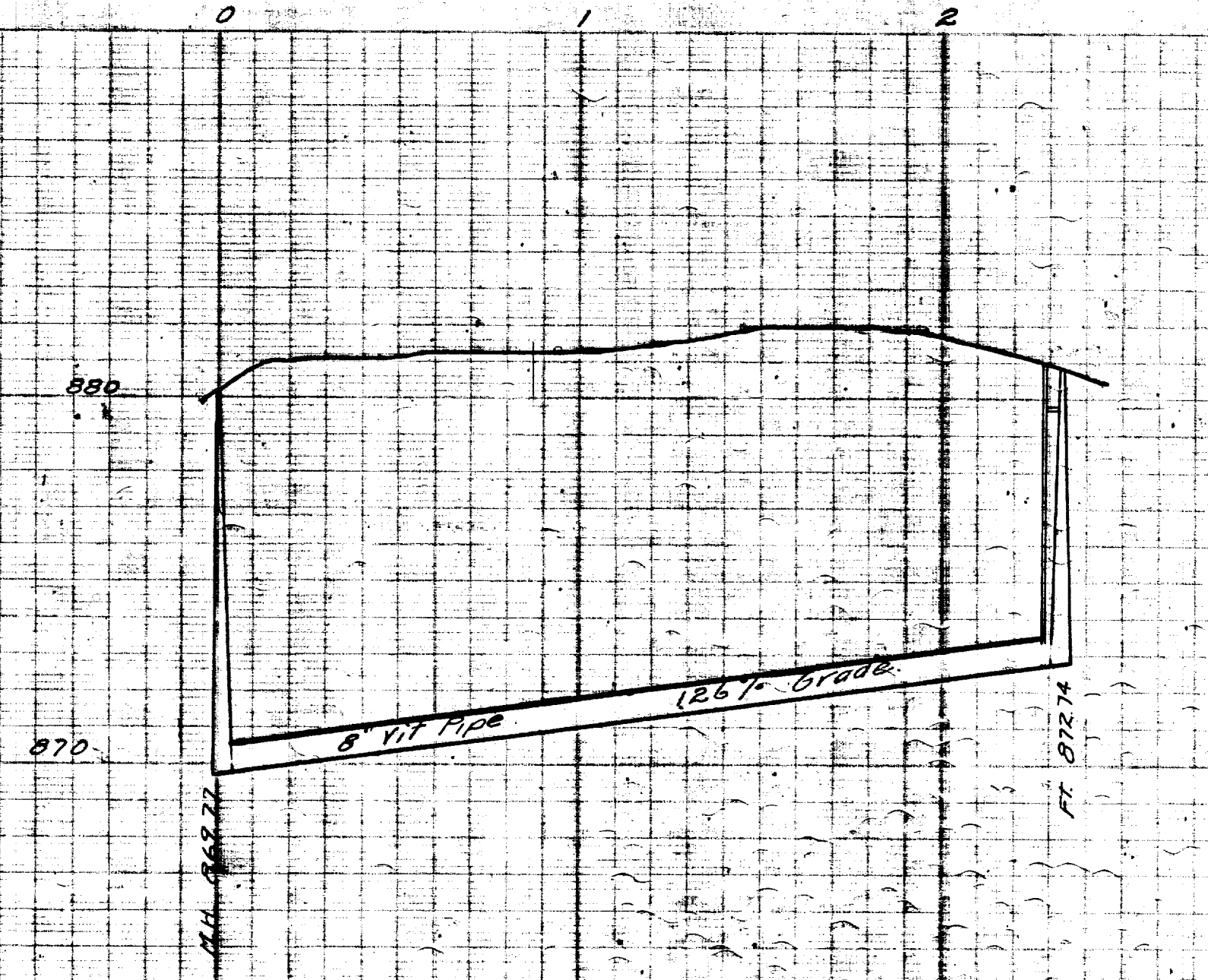
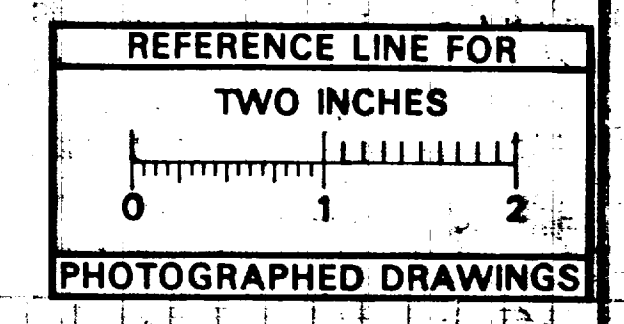
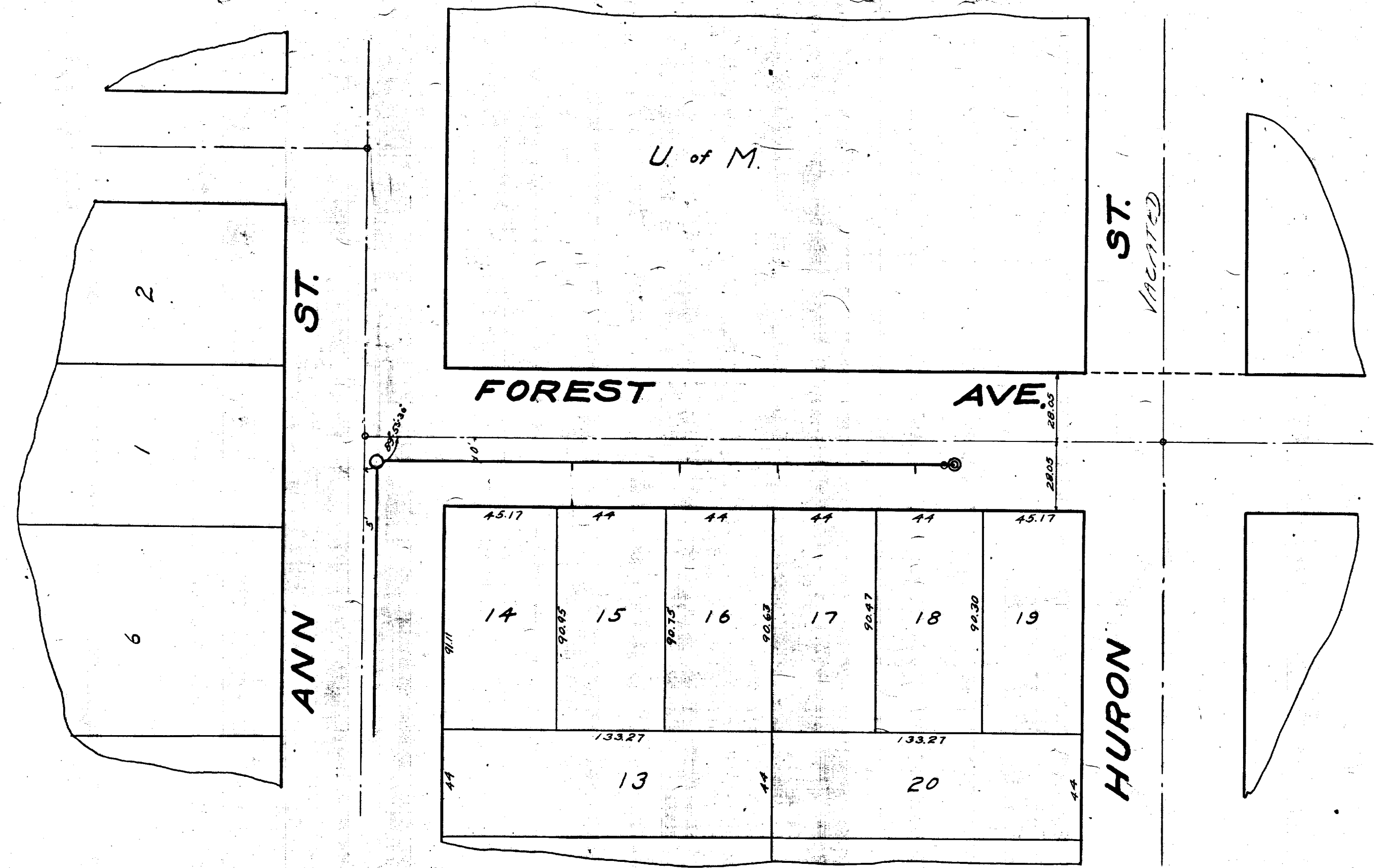
71-XXXXX (Manhole ID)

X.XX' (Manhole Depth)



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





MEASUREMENTS
TO
HOUSE CONNECTIONS
M.H. at ANN ST + ST. 0
West
80.9
124.4
165.7
221.5
237.0 FT.

Digital Status
Scanned On: 7-14-04
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

SHEET N^o 6
INDEX N^o 1172
SHELF N^o 6
SIZE C
SUB N^o 462

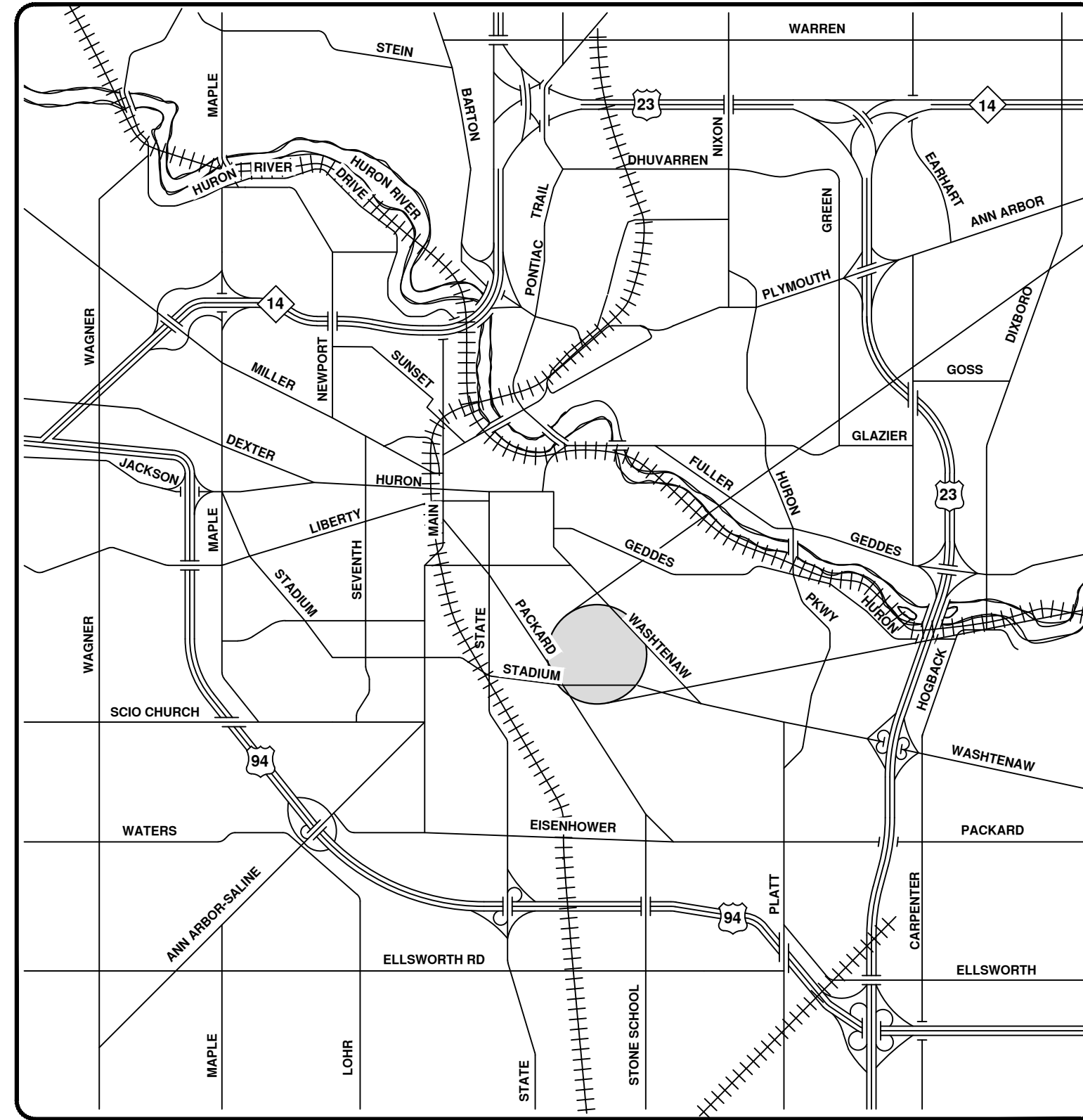
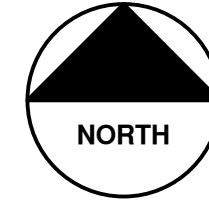
CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
ON
FOREST AVE.
ANN ST. TO HURON ST.
Geo. H. Sandenburgh, City Engineer.
1920-2-3
Scales - Plan 1" = 40' Profile Hor 1" = 40' Ver 1" = 4'

Drawn by Scovill
Traced by Scovill,
Checked by

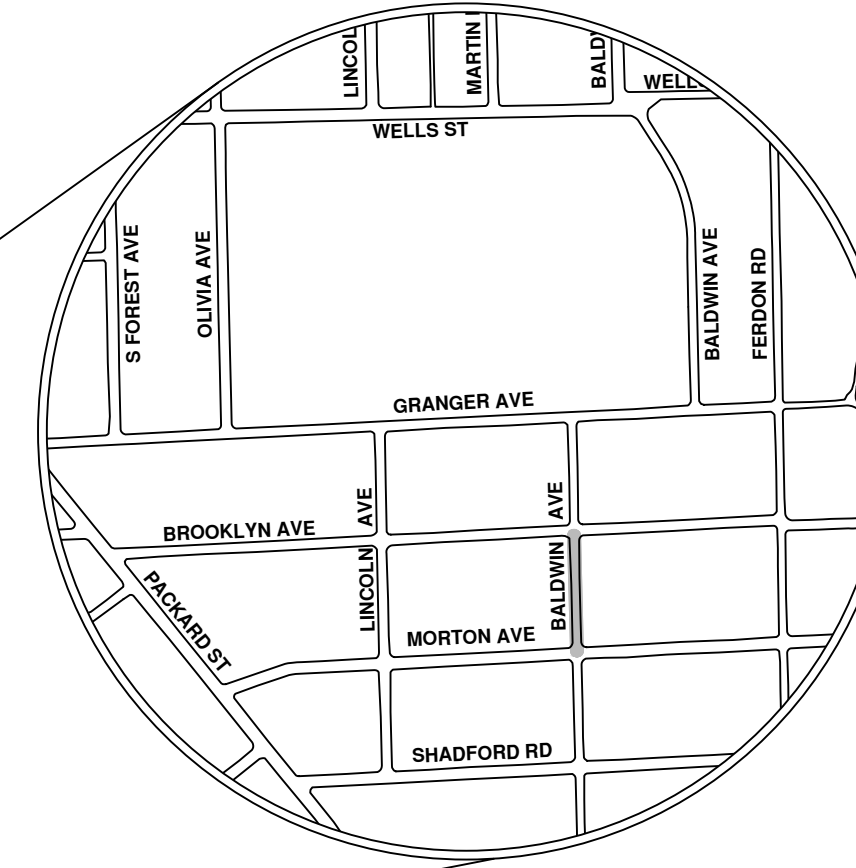


2023 SEWER LINING PROJECT

BALDWIN AVE



VICINITY MAP



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

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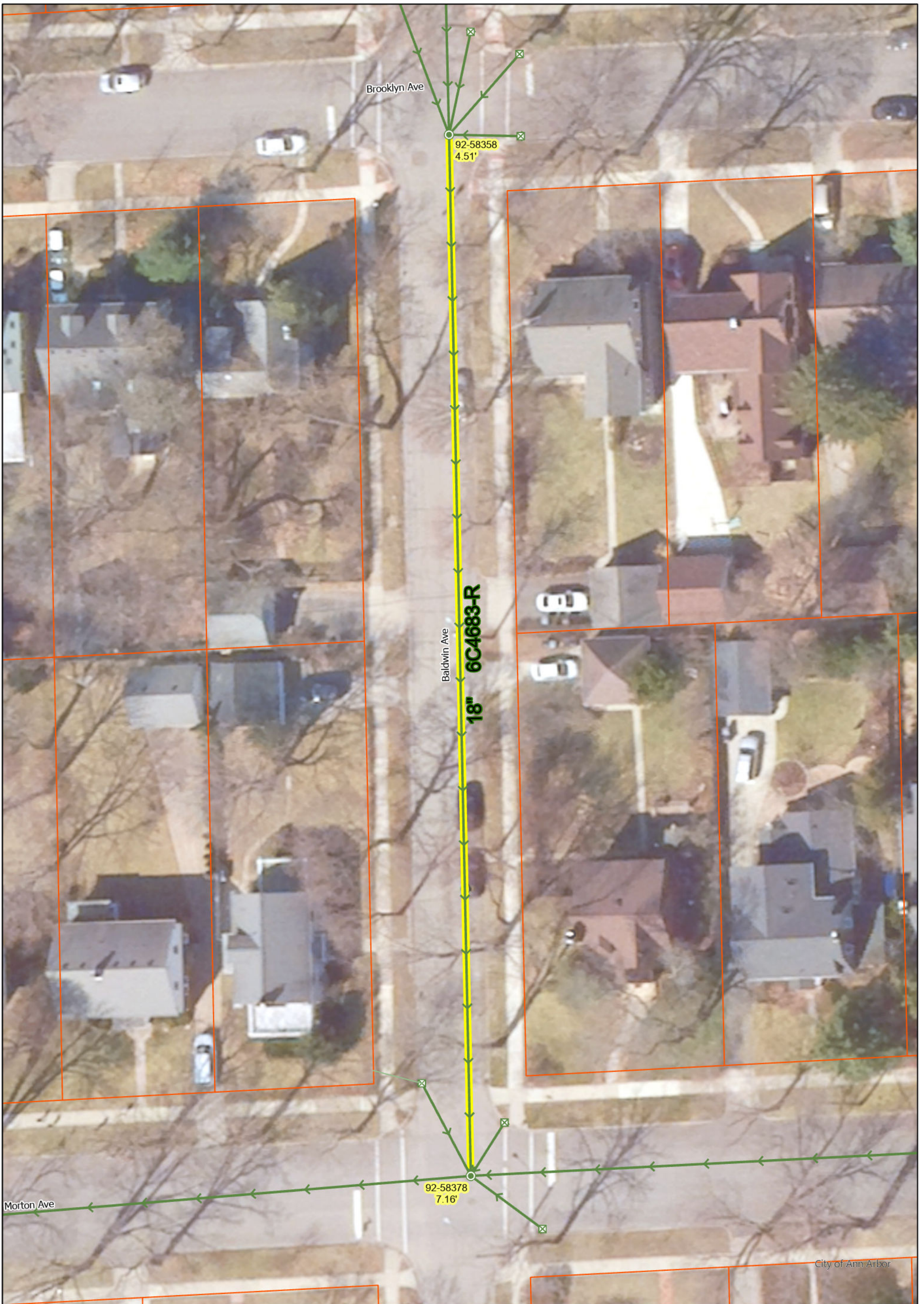


REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	8/4/23	ARG	IK

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. 2023011-90
 SHEET No. 90 OF 119
 © 2023 SEWER LINING PROJECT; BID No. RFP 23-41; 2023011



Baldwin Ave

- Manhole
- ⊠ DInletST

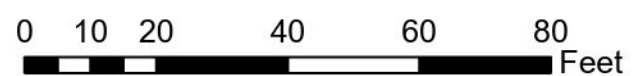
- Storm Main
- ServiceLine
- █ Proposed Lining

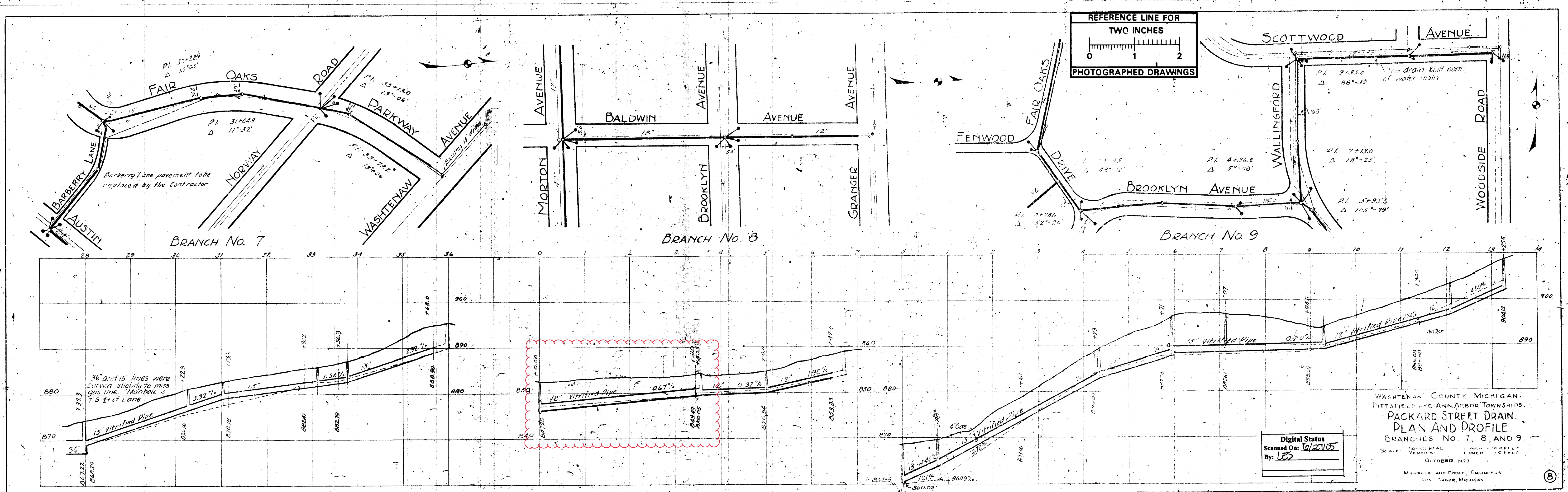
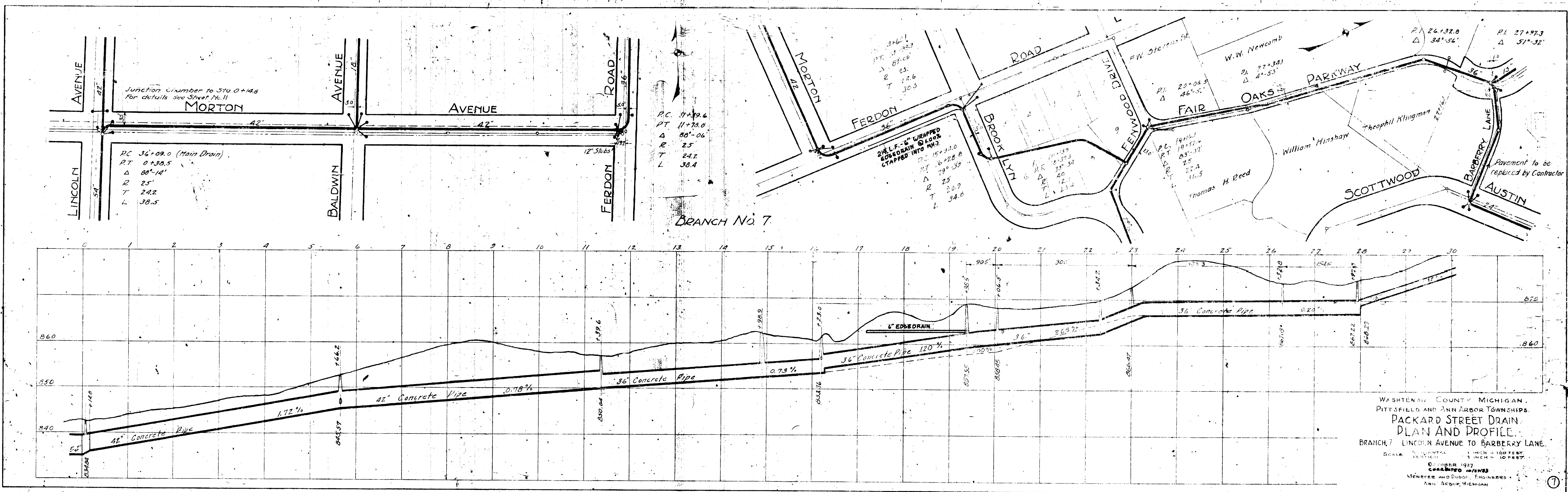
92-XXXXX (Manhole ID)

X.XX' (Manhole Depth)



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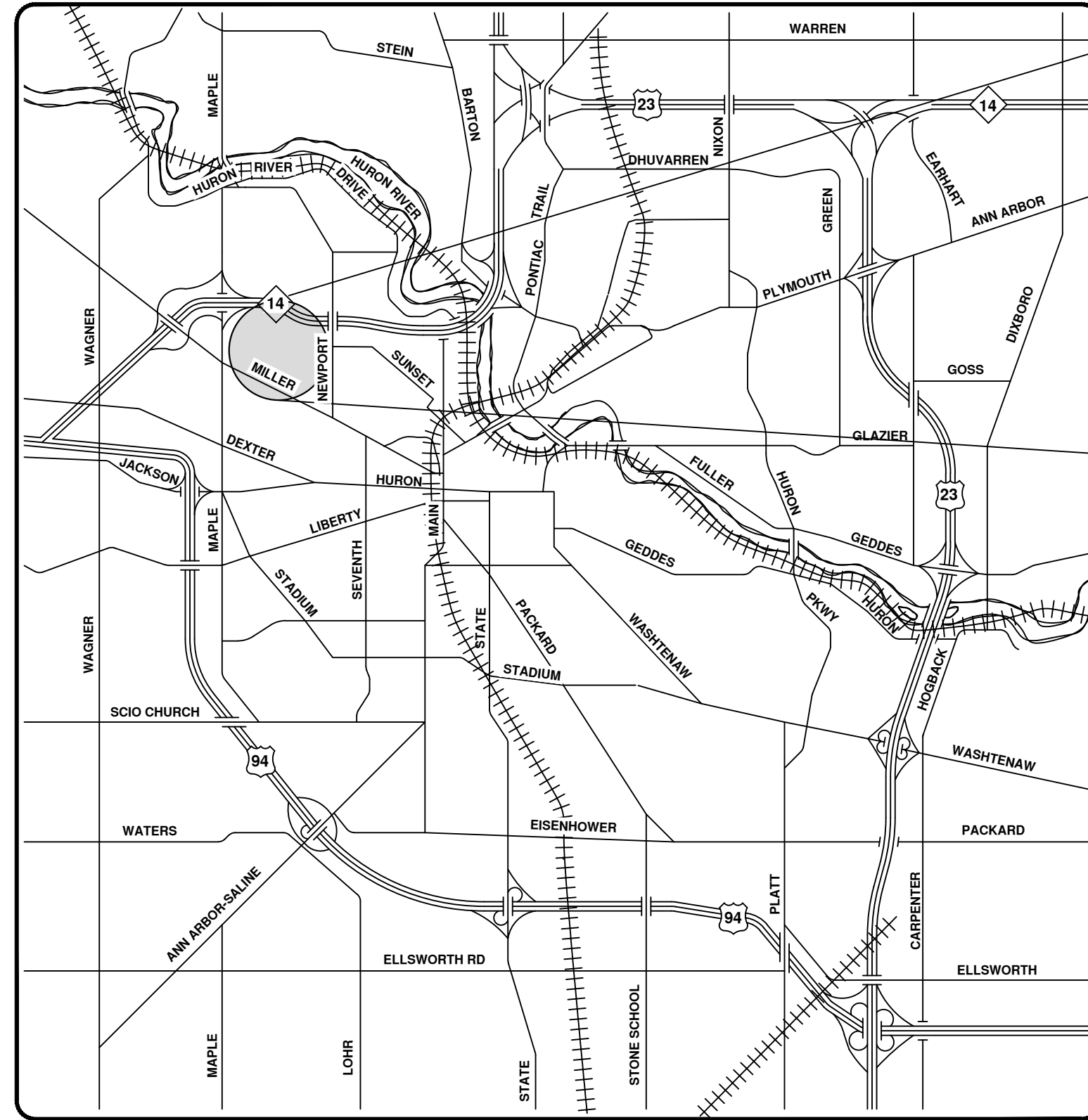
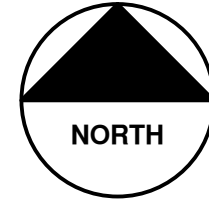




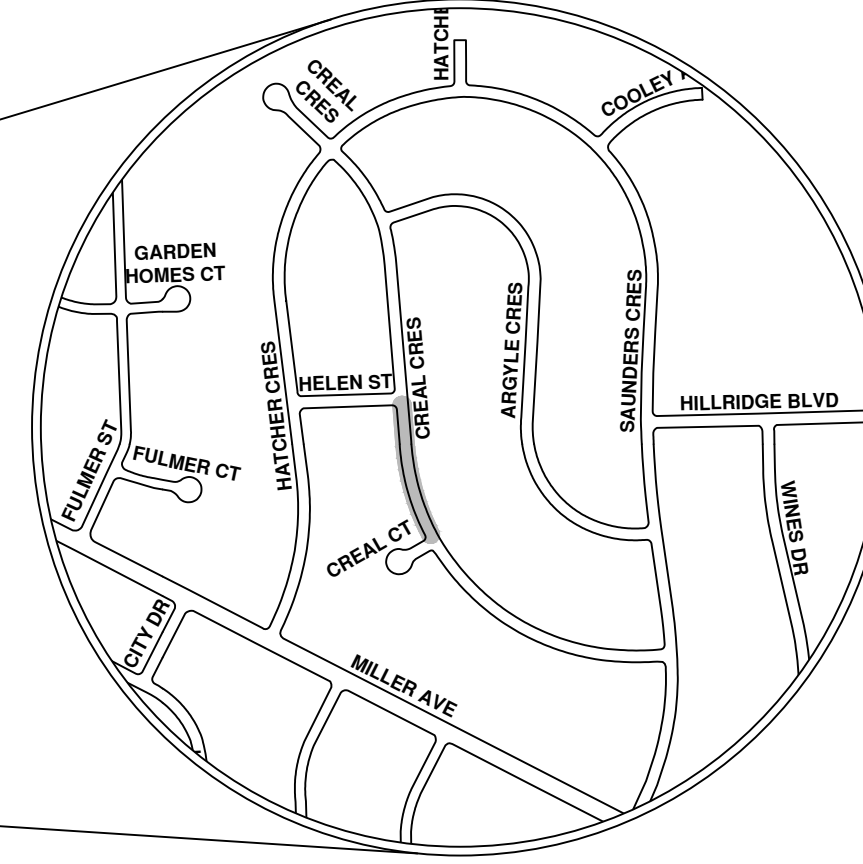


2023 SEWER LINING PROJECT

CREAL CRES



VICINITY MAP



R:\2023011 Sewer Lining_2023\Plan Production\2023011CovStorm.dwg - _s2 standard bw.stb - Plot Date: 8/4/2023 10:56:23 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 - ENGINEERING

SCALE
 DRAWING No.
 2023011-93

SHEET No.
 93 OF 119

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

REV.

DESCRIPTION

DATE

ARG DRAWN CHECKED

IK

CHECKED





Creal Cres

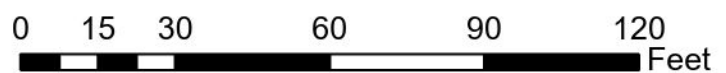
- Manhole
- DInletST
- Junction
- Storm Main
- ServiceLine
- Proposed Lining

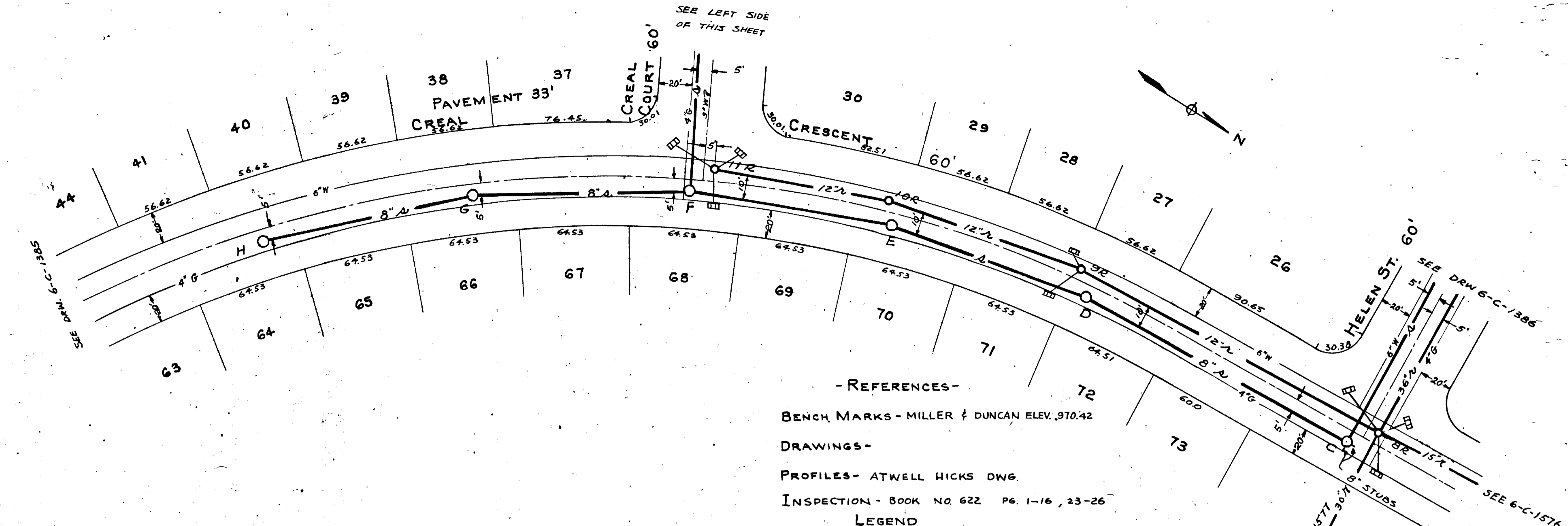
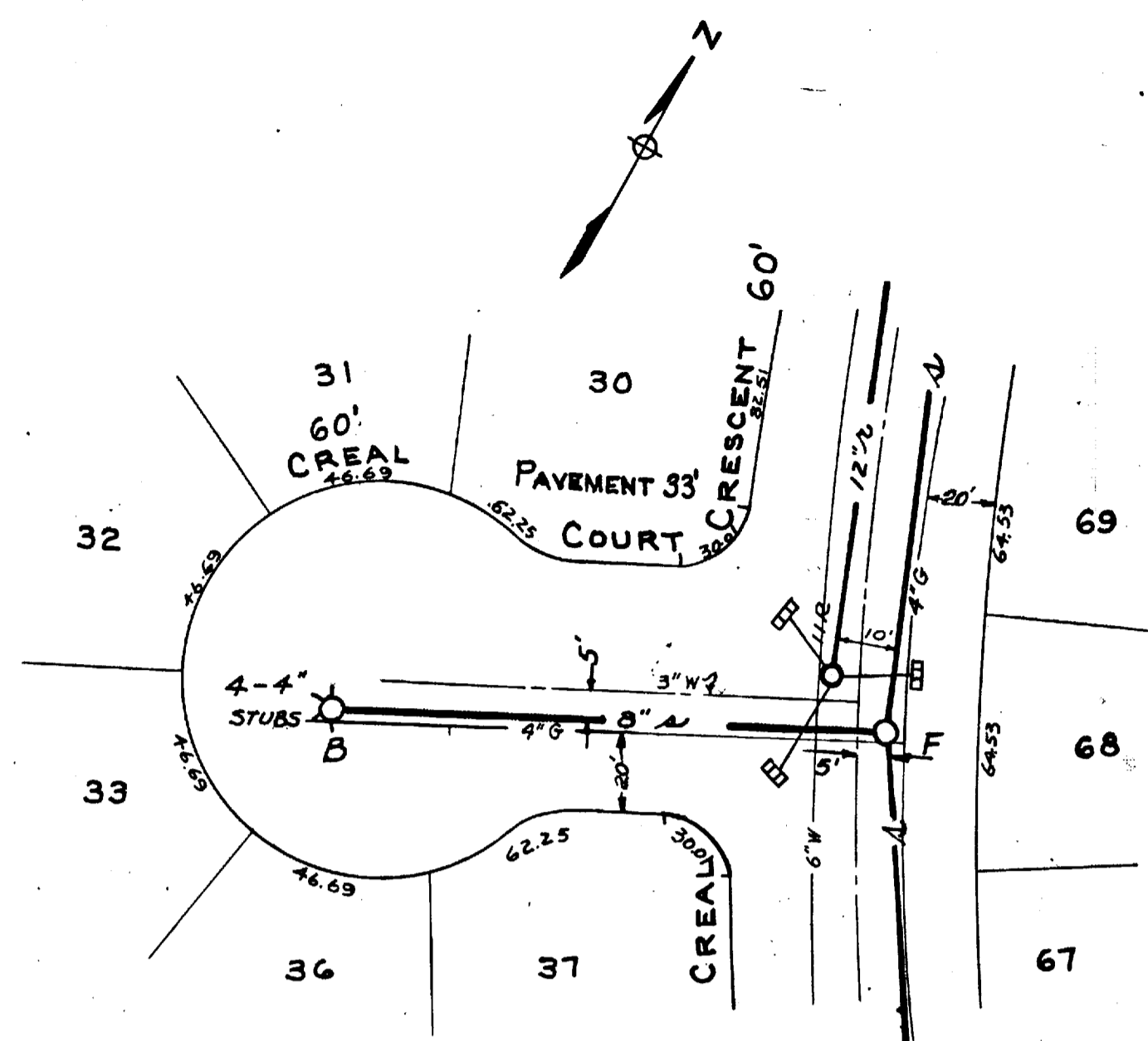
92-XXXXX (Manhole ID)

X.XX' (Manhole Depth)



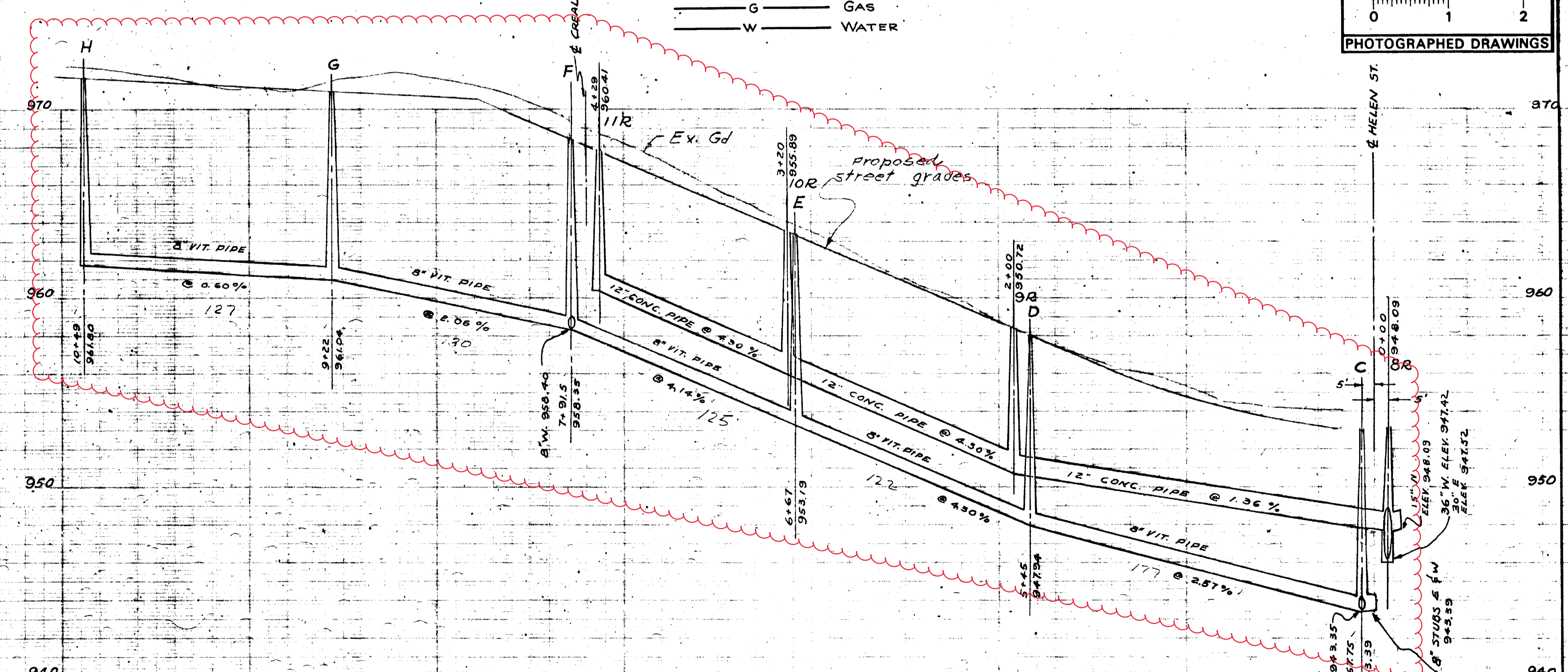
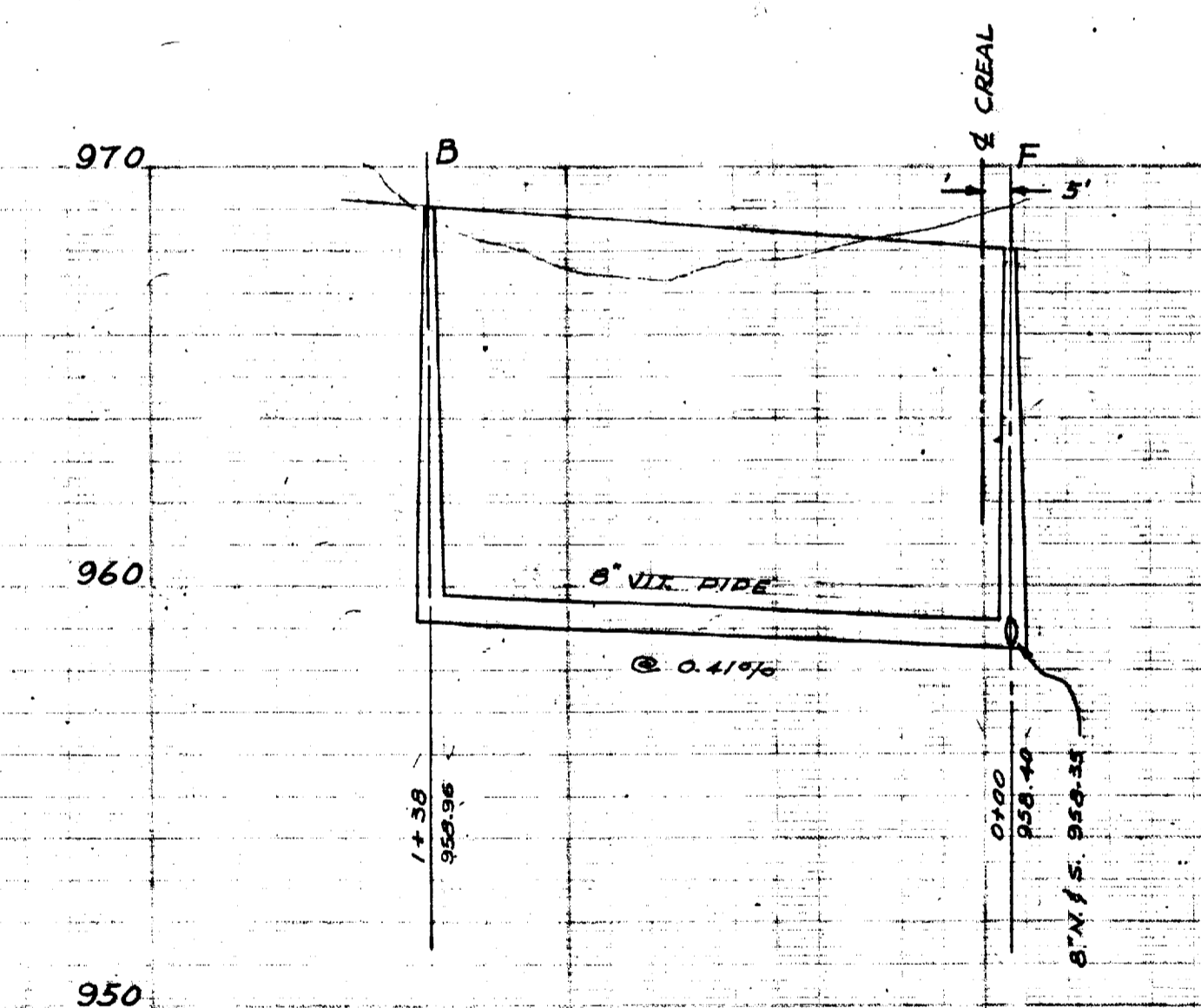
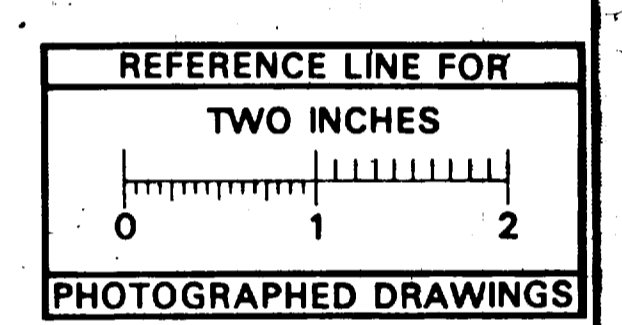
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- REFERENCES -
 BENCH MARKS - MILLER & DUNCAN ELEV. 970.42
 DRAWINGS -
 PROFILES - ATWELL HICKS DWG.
 INSPECTION - BOOK NO 622 PG. 1-16, 23-26

LEGEND
 — Δ — EXISTING SANITARY SEWER
 — S — PROPOSED SANITARY SEWER
 — R — EXISTING STORM SEWER
 — R — PROPOSED STORM SEWER
 — G — GAS
 — W — WATER



Digital Status
 Scanned On: 3/24/08
 By: JJM
 Despeckled: YES
 Vector:
 O.C.R.:

PREPARED BY DRURY, McNAMEE AND PORTER
 CONSULTING ENGINEERS

DATE	SHEET No.
DR. BY L.D.D.	INDEX No.
TR. BY R.H.L.D.D.	SHELF No.
CH. BY C.J.W. 6/53	6-C-1387
REVISIONS	
SCALE: HORIZ. 1" = 40' VERTICAL 1" = 4'	

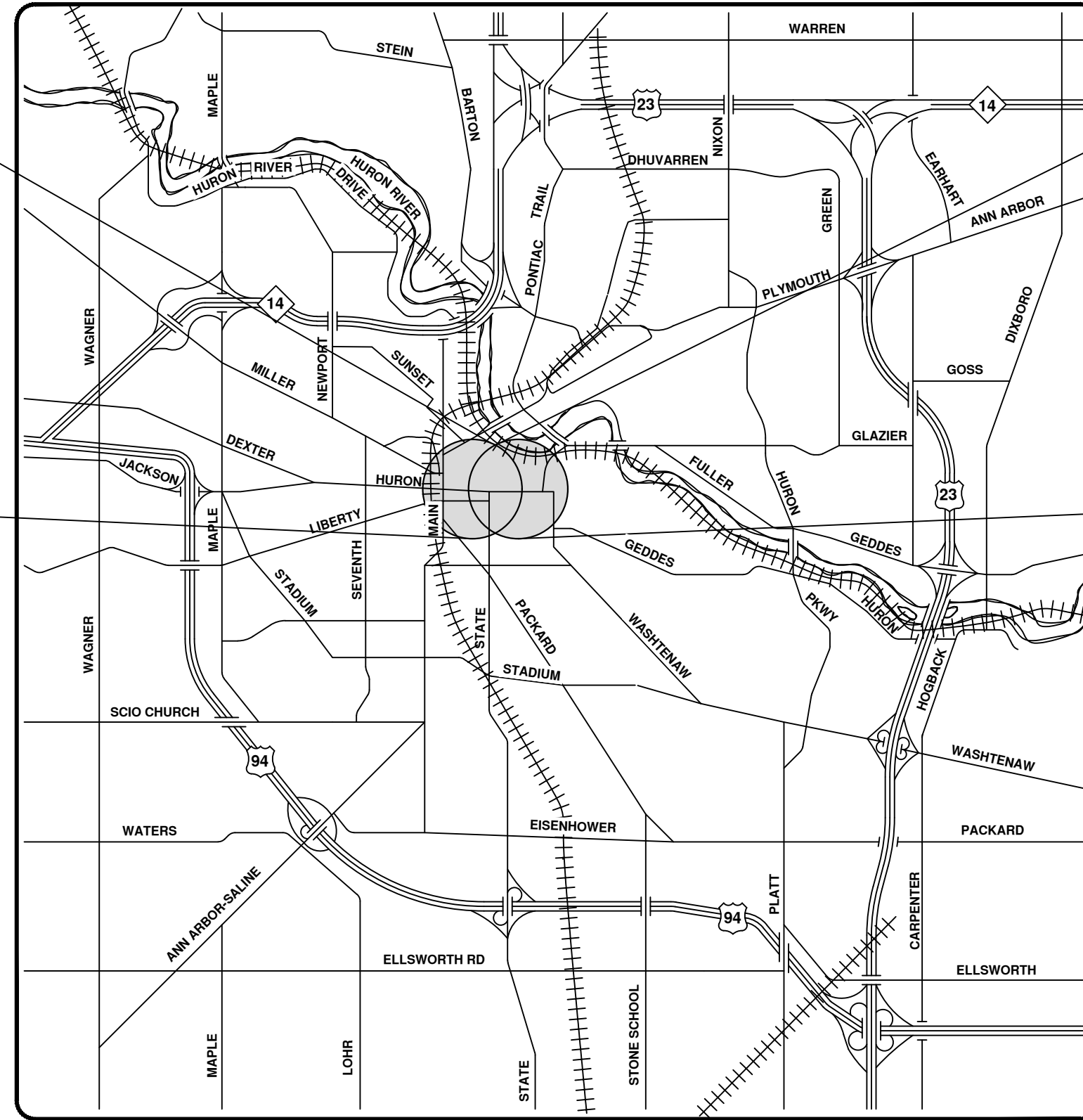
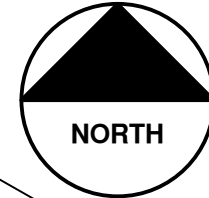
M. D. H. Permit No. 10925 7-28-53
 JOB 1934-94-5

STORM AND SANITARY SEWERS
CREAL CRESCENT
 HELEN STREET TO APPROX. 672' SLY
CREAL COURT
 GEO. H. SANDENBURGH CITY ENGINEER
 CITY ENGINEER'S OFFICE - ANN ARBOR, MICHIGAN

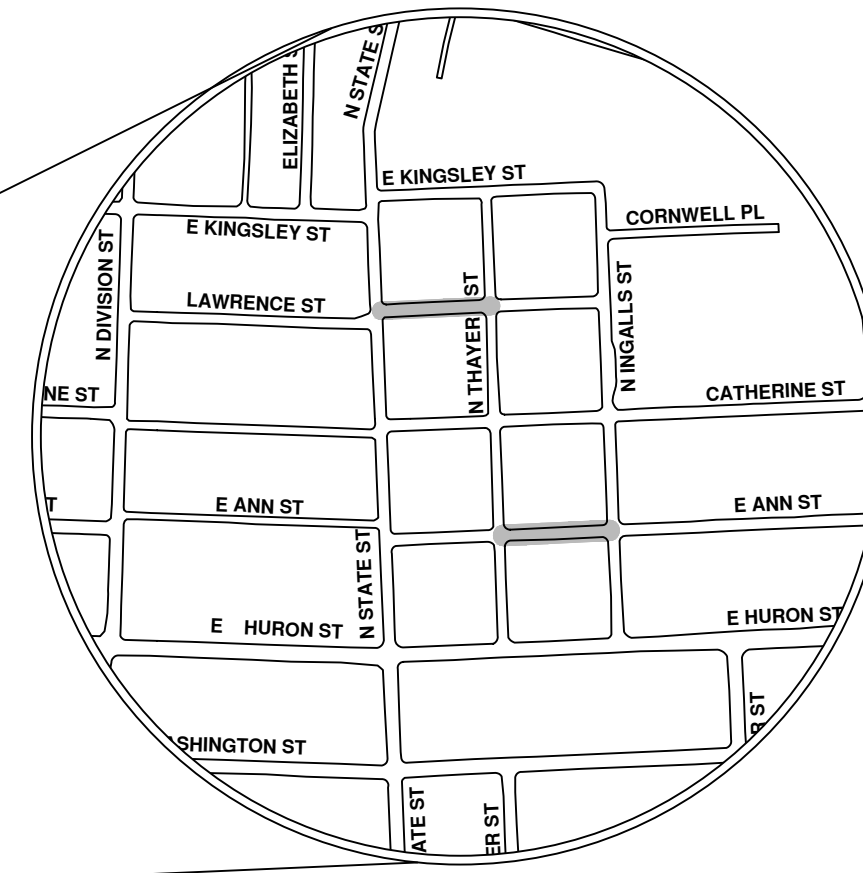


2023 SEWER LINING PROJECT

E ANN ST



VICINITY MAP



R:\2023011 Sewer Lining 2023\Plan Production\2023011CovStorm.dwg - _c02_standard bw.stb - Plot Date: 8/4/2023 10:56:28 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



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	8/4/23	ARG	IK

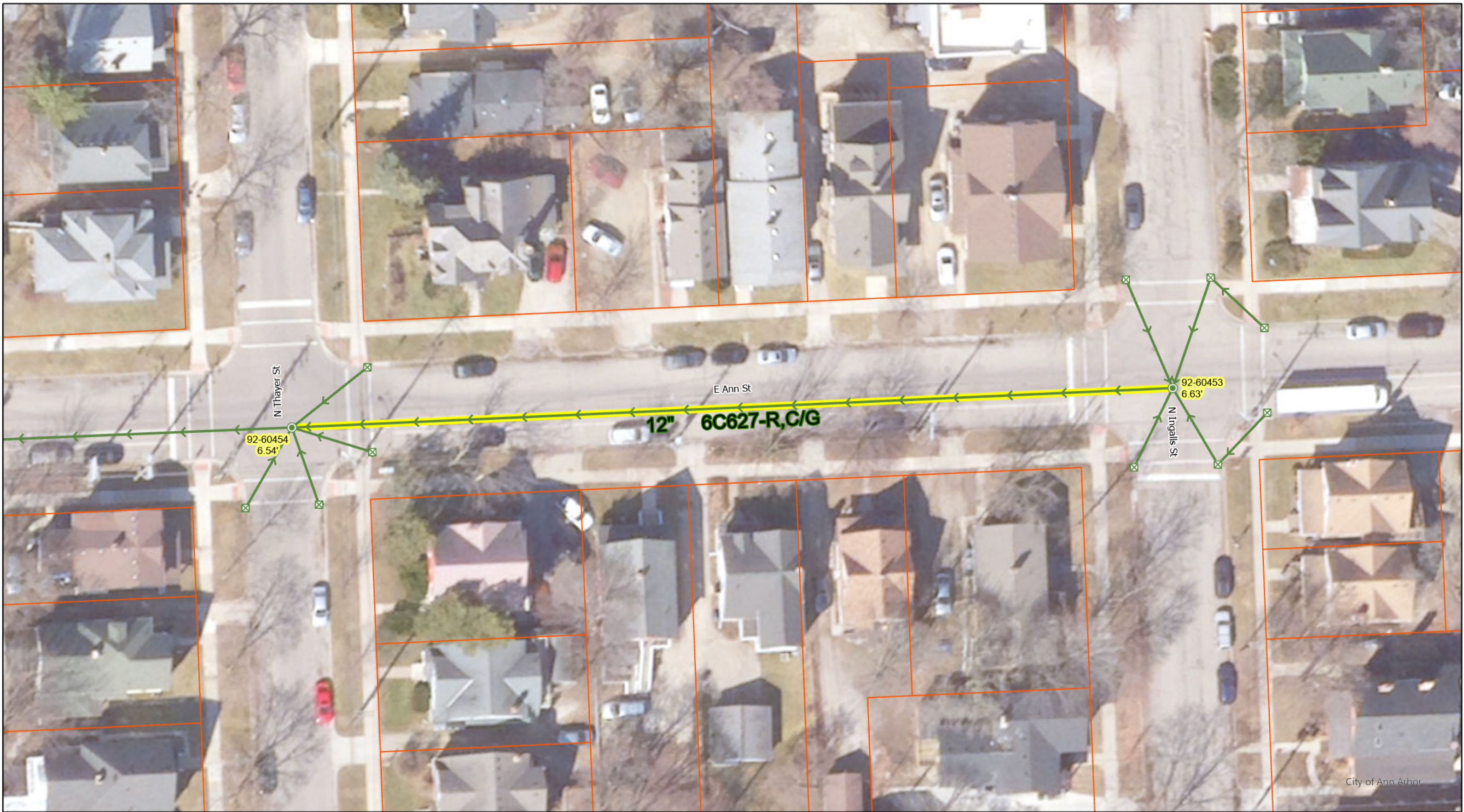
CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MICHIGAN 48107-8647
 www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2023011-96

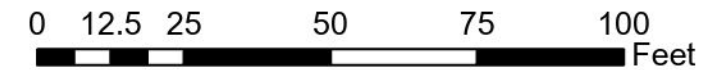
SHEET No.
 96 OF 119



City of Ann Arbor

- Manhole
- DInletST
- Storm Main
- Proposed Lining

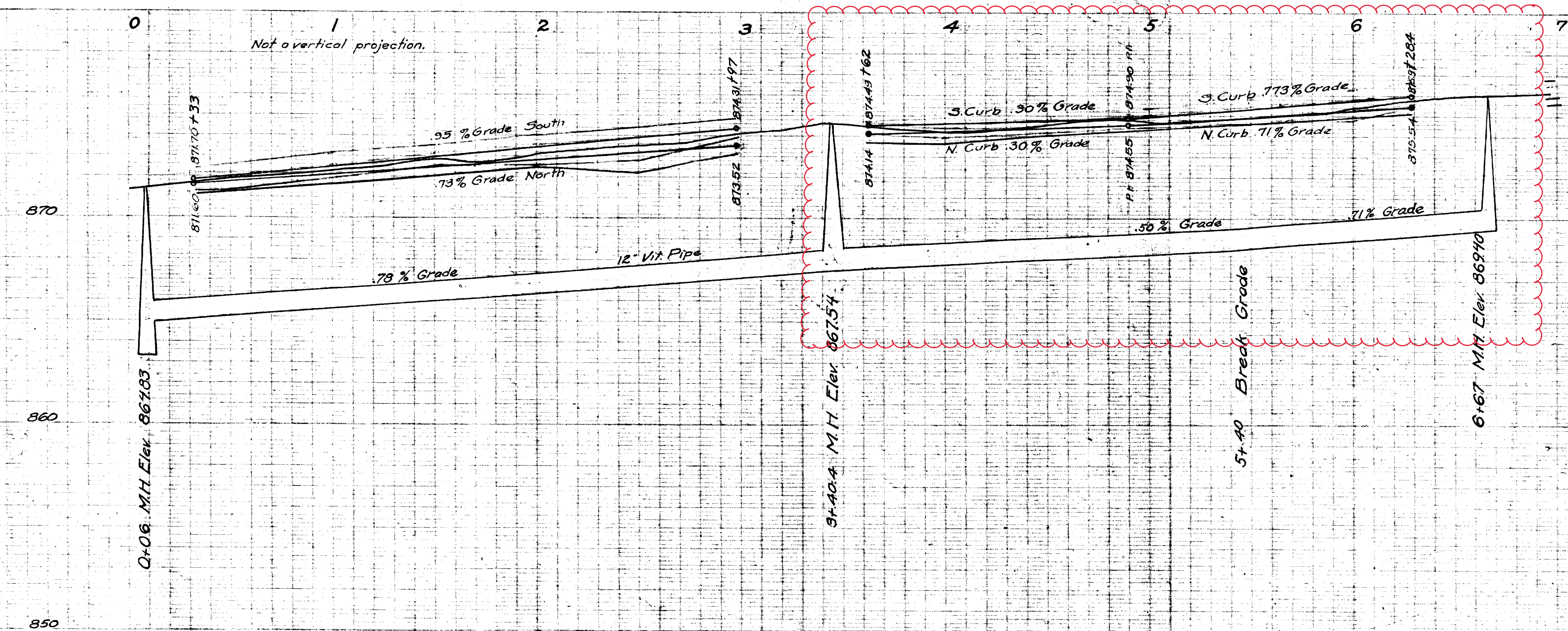
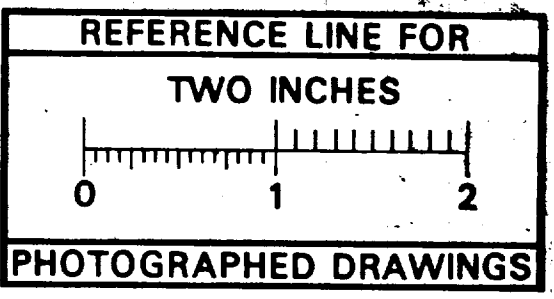
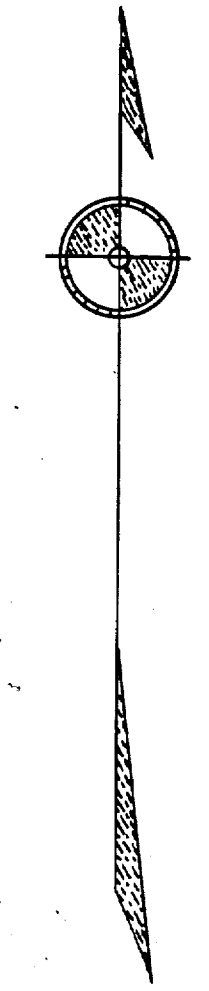
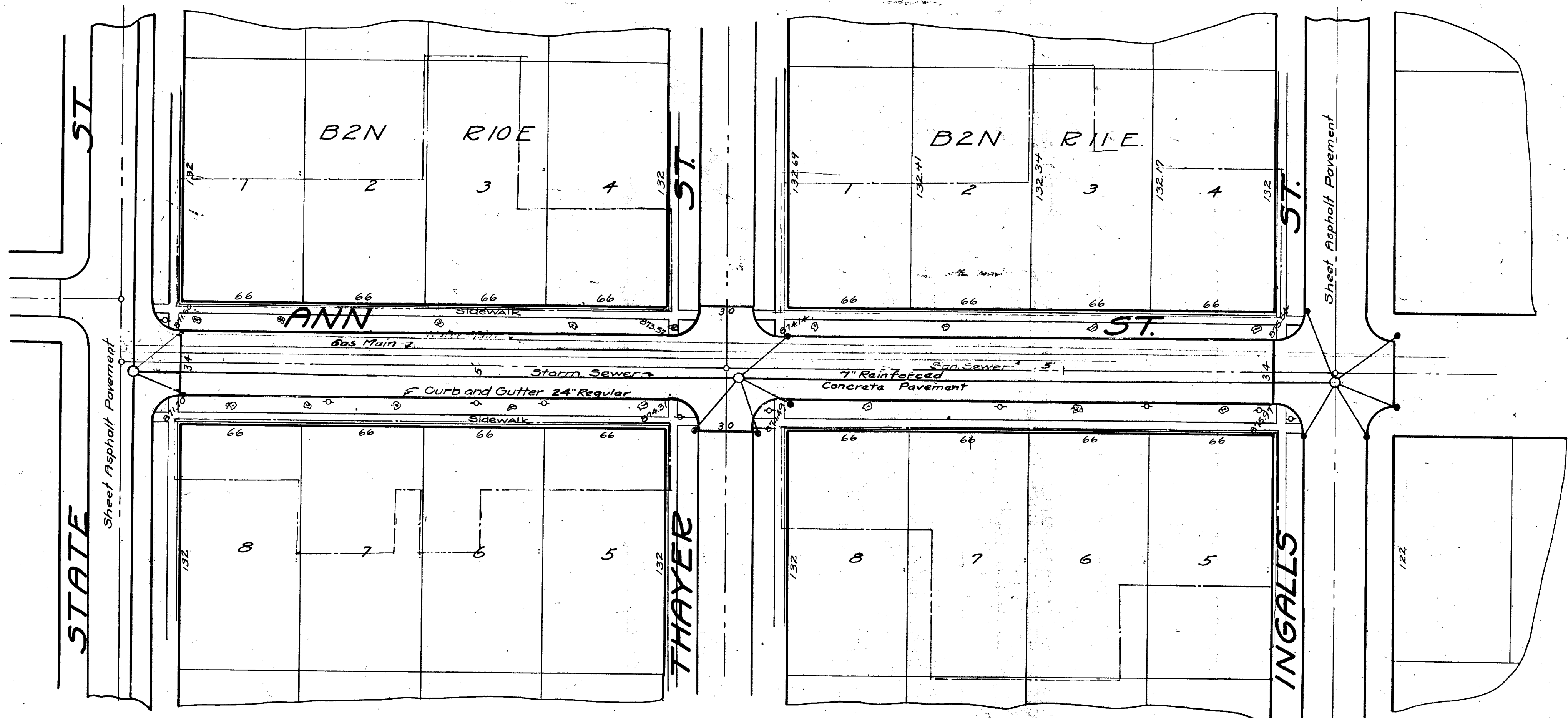
E Ann St



92-XXXXX (Manhole ID)
X.XX' (Manhole Depth)

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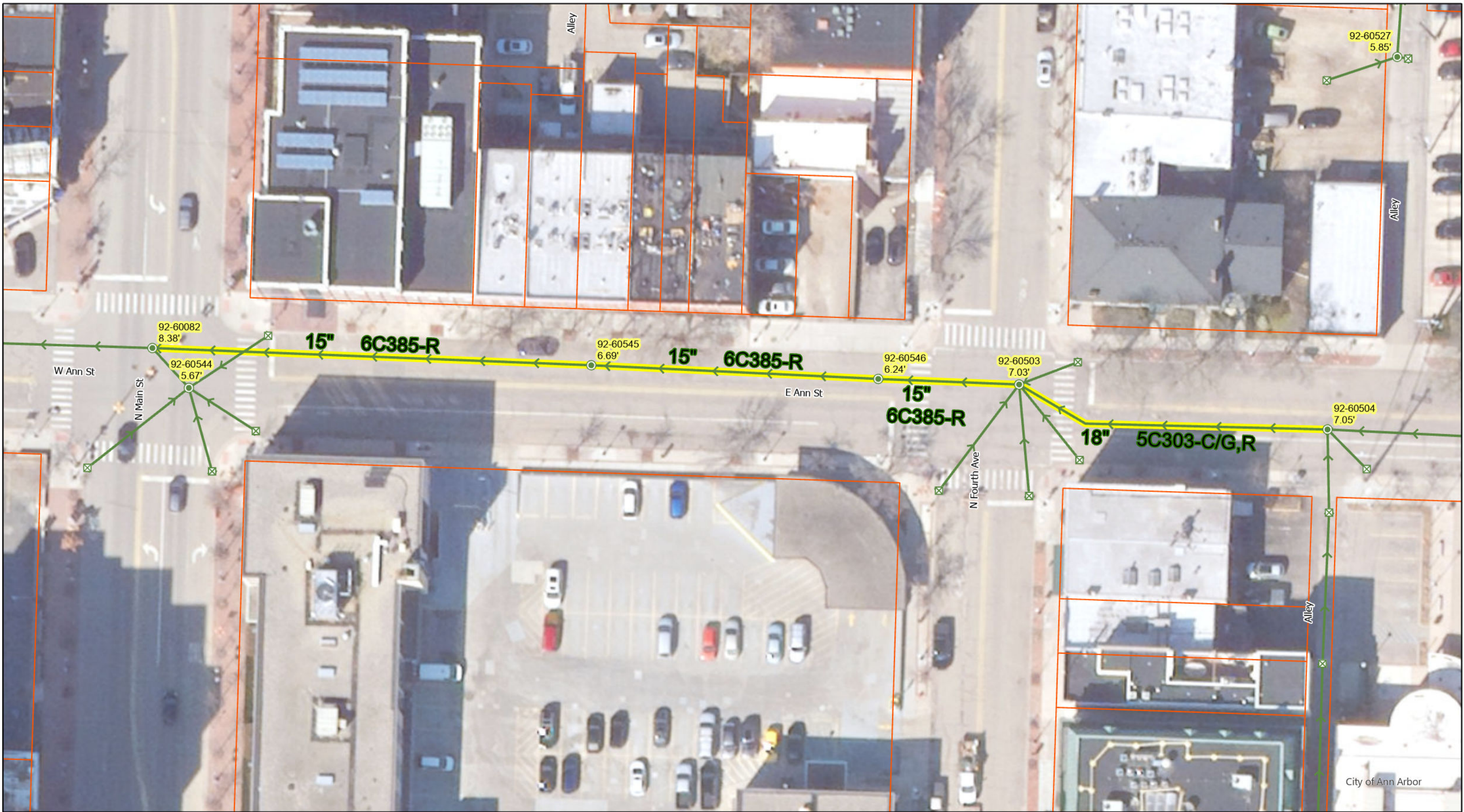
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 By: DGK
 Despeckled: Yes
 Vectors:
 O.C.R.:

— South
 — North
 — South

SHEET No.
 INDEX No. 1580
 SHELF No. 6
 SIZE C
 SUB No. 627

CITY ENGINEERS OFFICE
ANN ARBOR, MICH
 PLAN AND PROFILE
 OF
 STORM SEWER
 AND PAVEMENT
ANN ST.
 STATE ST. TO INGALLS ST.
 PAVING DISTRICT No. 106
 Geo. H. Sandenburgh, City Engineer.
 1929-1-4
 Scales: Plan, 1"=40' Profile Hor. 1"=40' Ver. 1"=4'

Drawn by
 Traced by
 Checked by



92-60527
5.85'

92-60082
8.38'

92-60544
5.67'

92-60545
6.69'

92-60546
6.24'

92-60503
7.03'

92-60504
7.05'

W Ann St

N Main St

E Ann St

N Fourth Ave

15" 6C385-R

15" 6C385-R

15" 6C385-R

18" 5C303-C/G,R

Alley

Alley

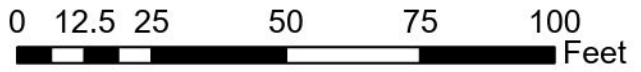
Alley

City of Ann Arbor

- Manhole
- ⊠ DInletST

- Storm Main
- Proposed Lining

E Ann St

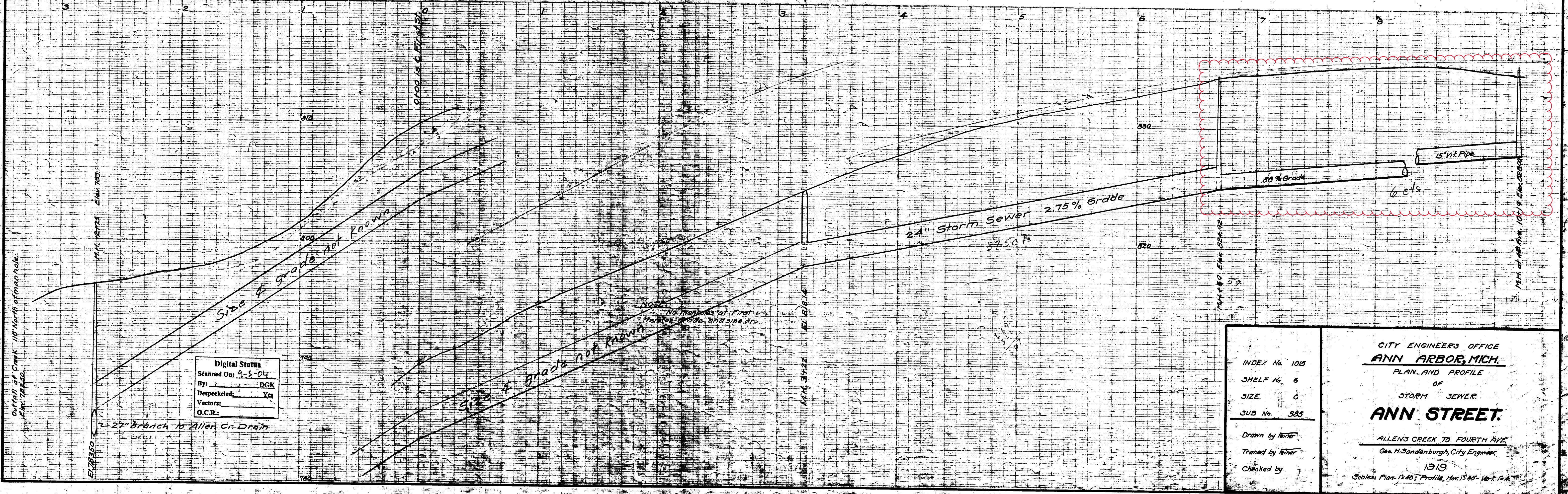
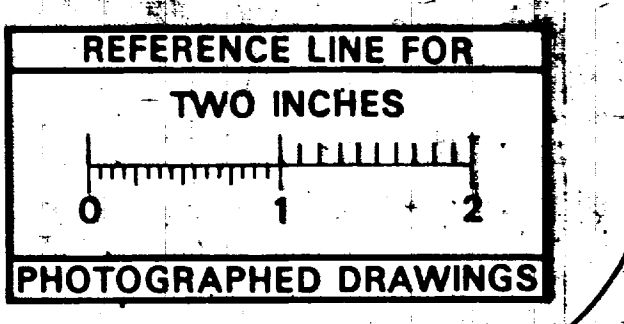
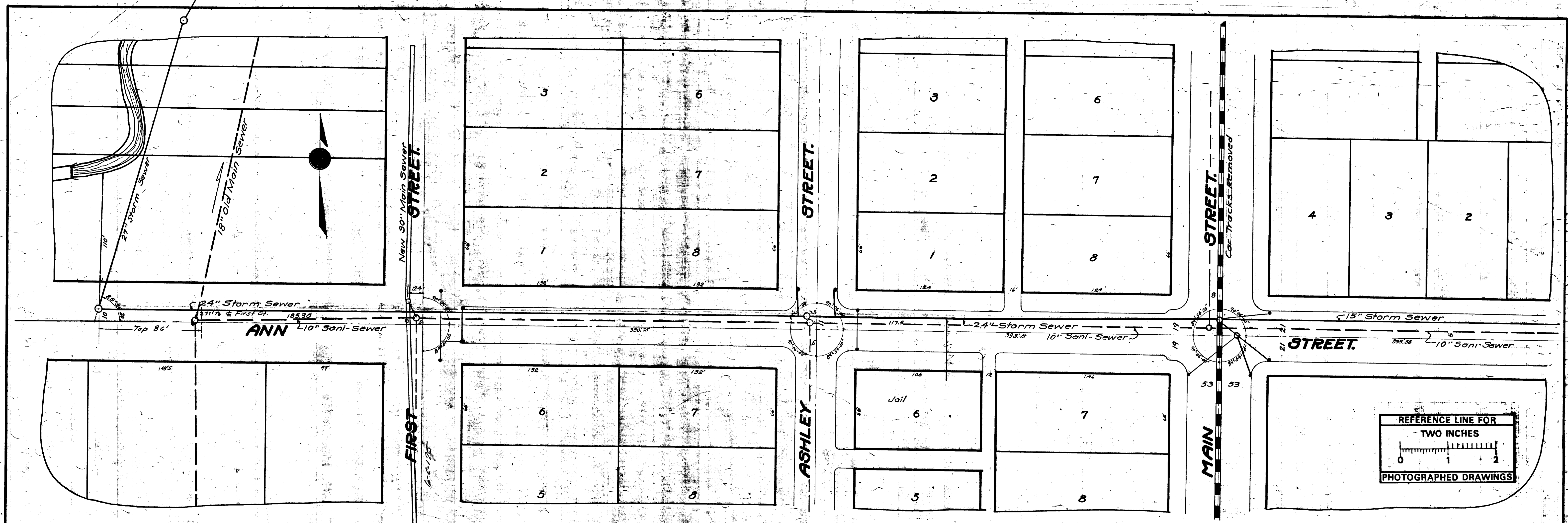


92-XXXXX (Manhole ID)

X.XX' (Manhole Depth)

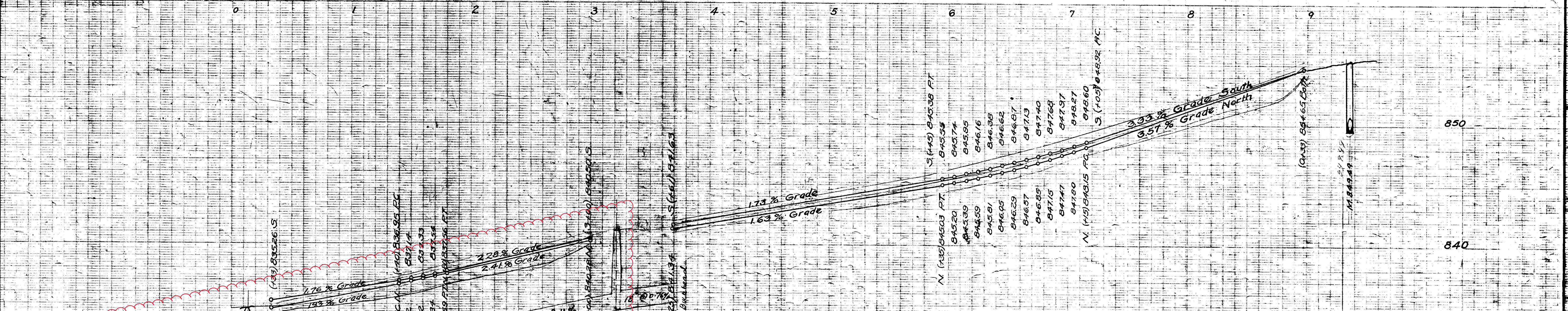
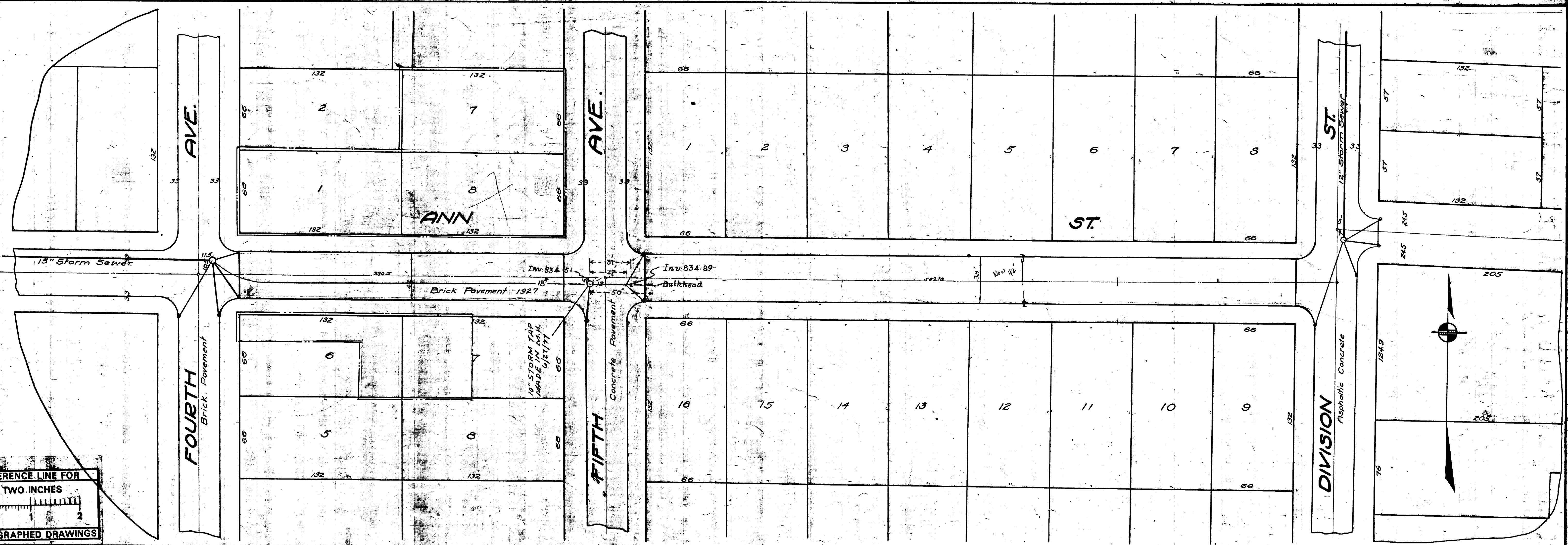
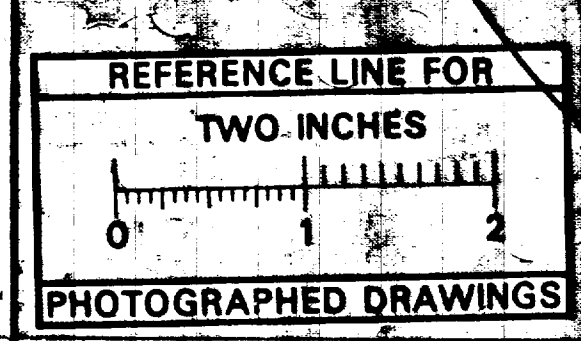
For terms and conditions please visit www.a2gov.org/terms





Digital Status
 Scanned On: 3-5-04
 By: DGK
 Despeckled: Yes
 Vectors: Yes
 O.C.R.:

INDEX No. 105	CITY ENGINEERS OFFICE ANN ARBOR, MICH. PLAN AND PROFILE OF STORM SEWER ANN STREET. ALLEN'S CREEK TO FOURTH AVE. Geo. H. Sandenburgh, City Engineer, 1919 Scales: Plan: 1"=40'; Profile: Hor: 1"=40'; Ver: 1"=4'
SHELF No. 6	
SIZE: C	
SUB No. 385	
Drawn by: <i>Winer</i>	
Traced by: <i>Winer</i>	
Checked by:	



- LEGEND
- N Walk
 - N Gutter
 - Center Line
 - S Walk
 - S Gutter
 - Edison File

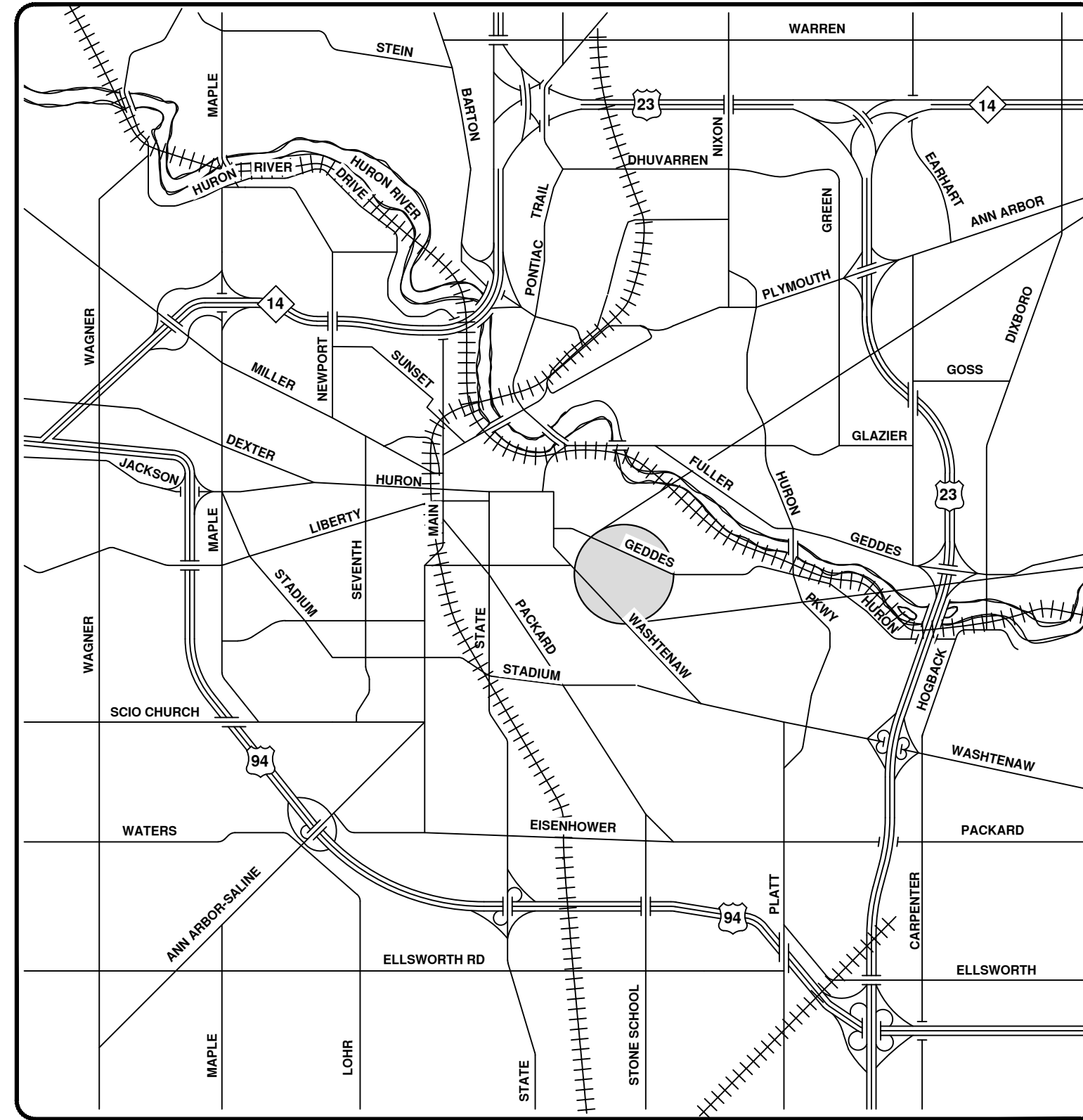
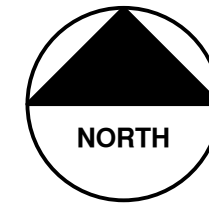
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By: LES
Dispedited: YES
Vectors:
O.C.R.:

SHEET No.	CITY ENGINEERS OFFICE
INDEX No. 1701	ANN ARBOR, MICH.
SHELF No. 5	PLAN AND PROFILE
SIZE	OF
SUB No. 305	PAVEMENT
	ON
	ANN ST.
	DIVISION TO FOURTH AVE
Drawn by	Geo. H. Sandenburgh City Engineer
Traced by	KND
Checked by	
	1927-1-15
	Scales: Plan 1"=40' Profile 1"=10'

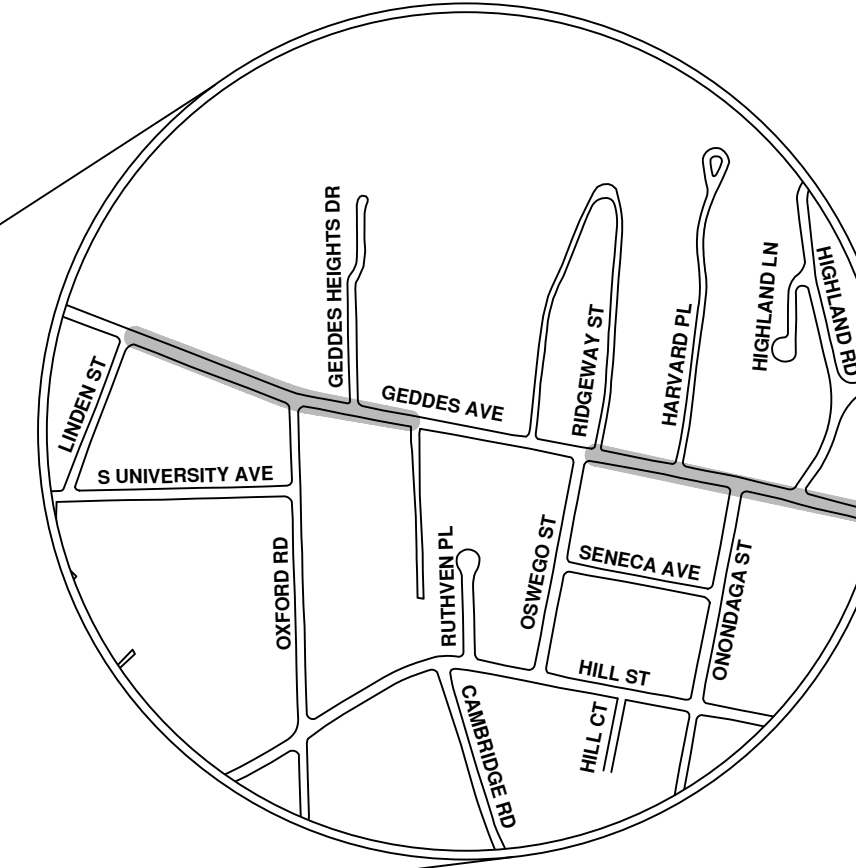


2023 SEWER LINING PROJECT

GEDDES AVE



VICINITY MAP



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ENGINEERING
 CITY OF ANN ARBOR PUBLIC SERVICES
 301 EAST HURON STREET, P.O. BOX 8647
 ANN ARBOR, MICHIGAN 48107-8647
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REV.	DESCRIPTION	DATE	BY	CHECKED
00	BID SET	8/4/23	ARG	DRAWN
			IK	CHECKED

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.
 2023011-102

SHEET No.

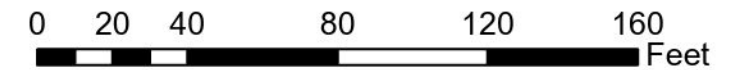
102 OF 119



City of Ann Arbor

- Manhole
- DInletST
- Storm Main
- Proposed Lining

Geddes Ave

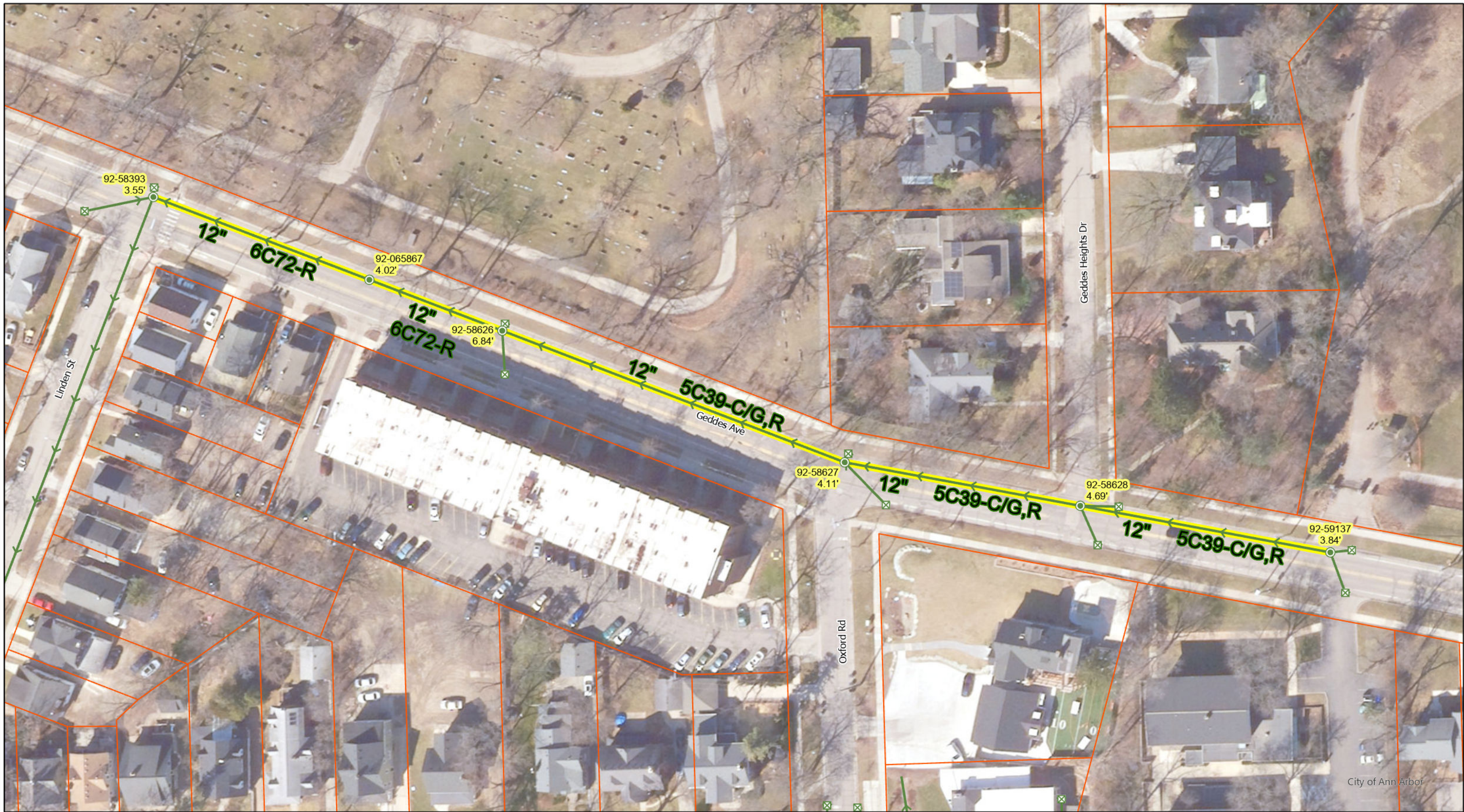


92-XXXXX (Manhole ID)

X.XX' (Manhole Depth)



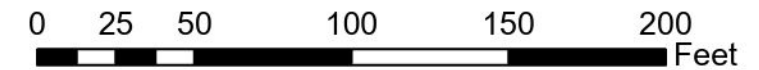
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City of Ann Arbor

- Manhole
- DInletST
- Storm Main
- Proposed Lining

Geddes Ave

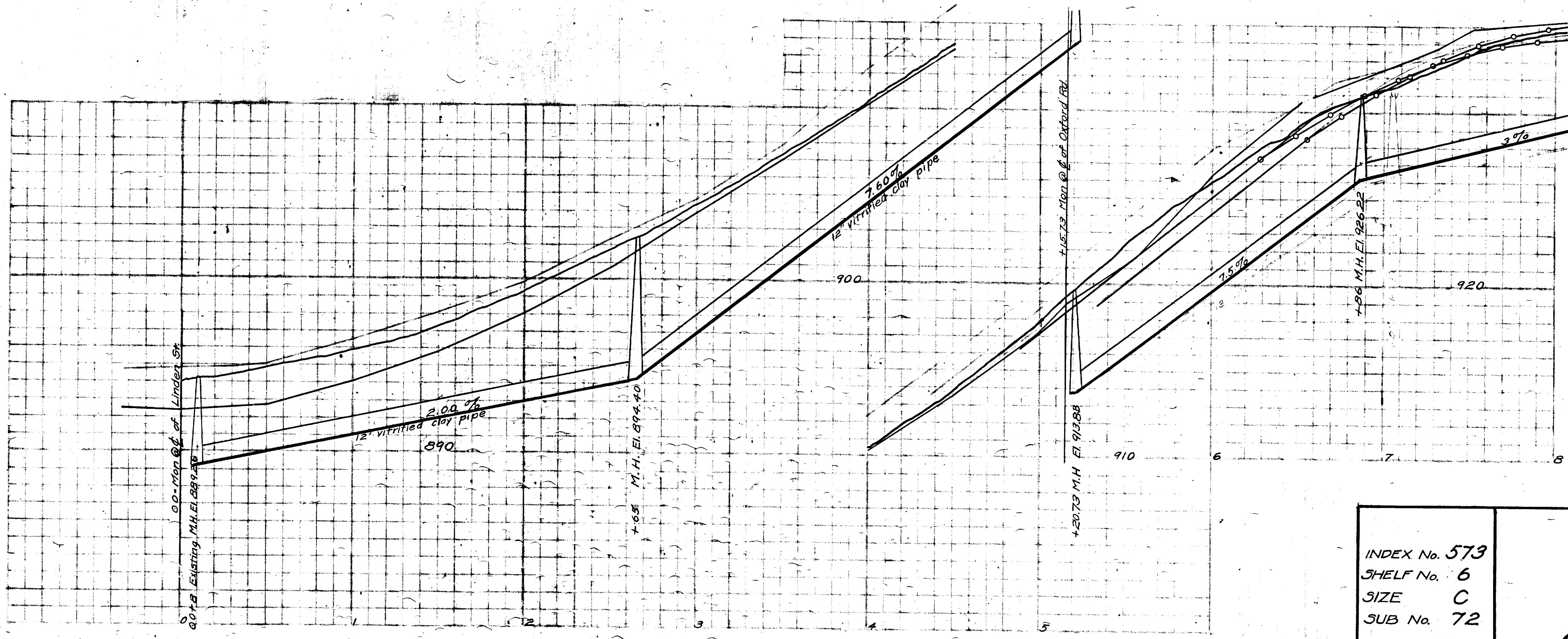
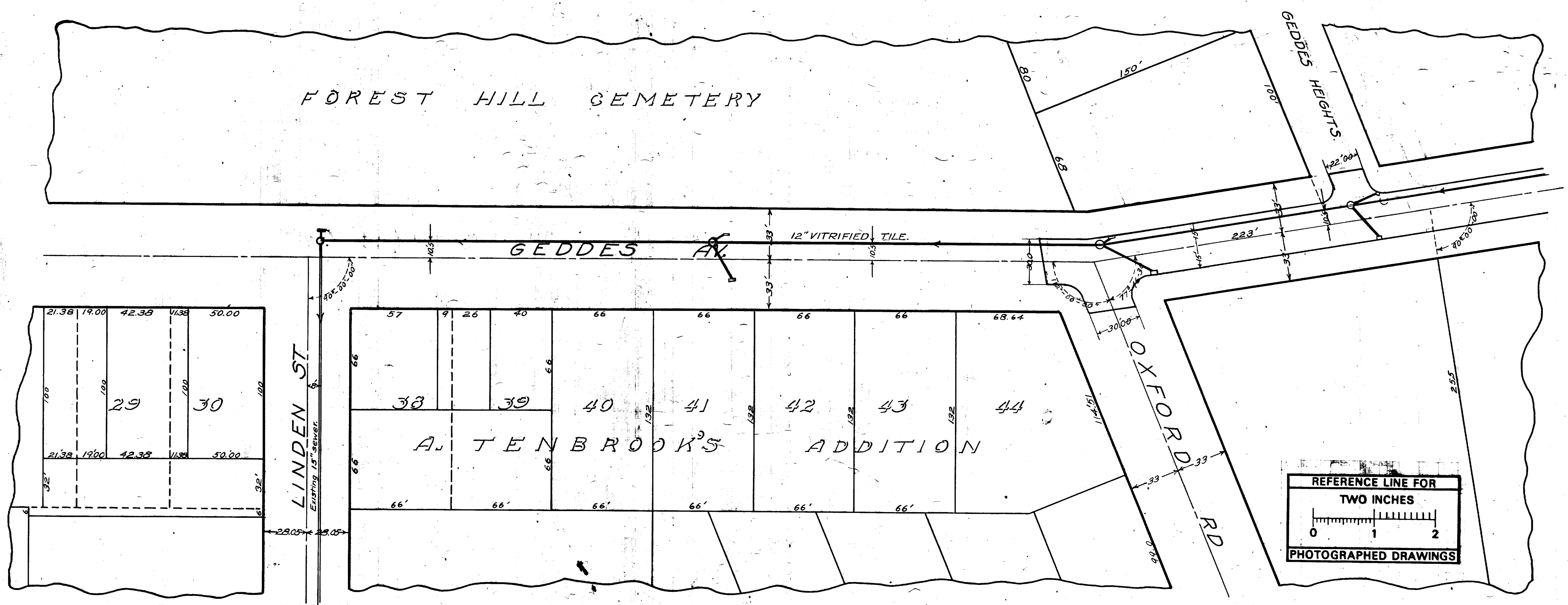


92-XXXXX (Manhole ID)

X.XX' (Manhole Depth)

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





BENCH MARKS (U.S.G.S.)
 Geddes Av. and Oxford Rd. Hyd. 918.15
 Geddes Av. and Oswego St. + 940.66

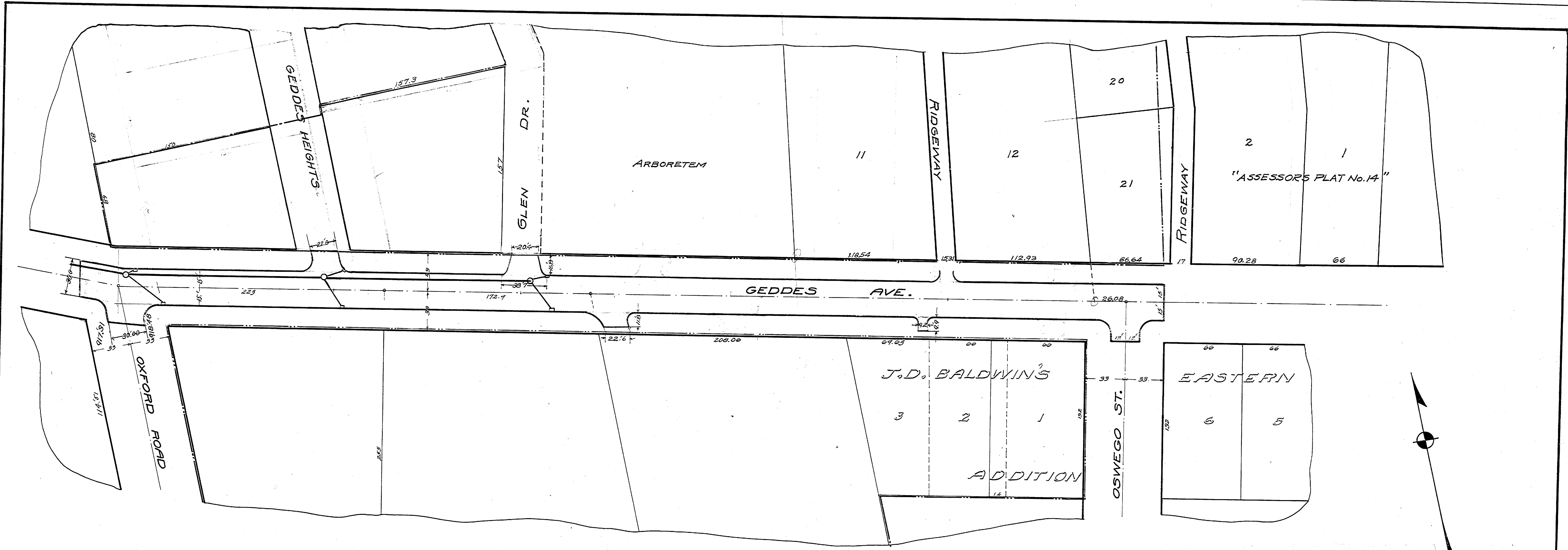
BILL OF MATERIAL
 1040 lin. ft 12"
 8 - 12" elbows
 4 manholes
 8 inlets
 Excavation
 832 lin. ft. 0-6 ft. deep
 200 " " 6-8 ft. "

LEGEND
 Center line of Street
 North walk line
 South walk line
 Grade line of curb
 Grade line of sewer

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

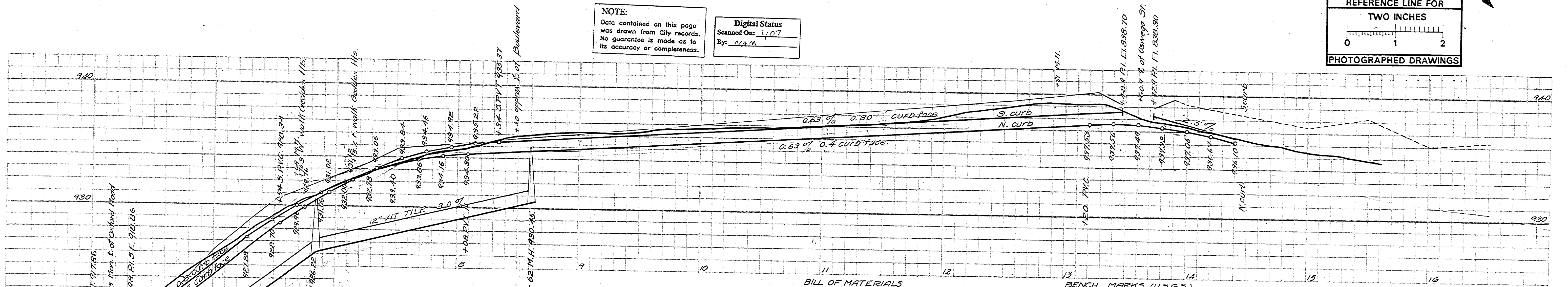
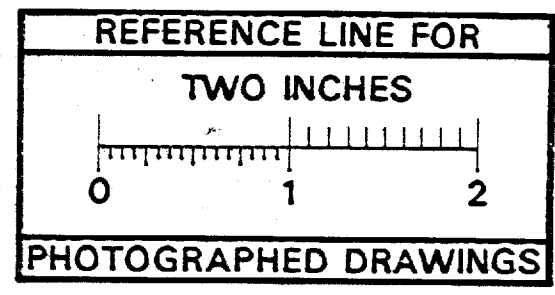
INDEX No. 573
 SHELF No. 6
 SIZE C
 SUB No. 72
 Drawn by W.C.R.
 Traced by W.C.R.
 Checked by mo.

CITY ENGINEER'S OFFICE
 ANN ARBOR, MICH.
 PLAN AND PROFILE
 OF
 STORM SEWER
 ON
GEDDES AVE.
 FROM LINDEN ST TO BOULEVARD.
 Manley Osgood, City Engineer
 1915-8-2
 Scales-Plan 1"=40' Profile Hdt. 1"=40'
 Two Sheets Sheet No. 1.



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: 1/07
By: N.A.M.



BILL OF MATERIALS
1840 lin. ft. of curbing
1369.3 lin. ft. of drain tile
3272.7 sq. yds. reinforced concrete paving
134.5 lin. ft. of headers
1614 cu. yds. excavation

UNIT COSTS
Cost of paving complete per sq. yd. \$1.66
Cost of grading + paving per sq. yd. 1.43
Cost of paving only per sq. yd. 1.19
Cost of excavation per sq. yd. 0.45

Reinforced concrete, two course, truss construction and joint protection.

BENCH MARKS (U.S.G.S.)
Geddes + Walnut Hyd. 89780
Oxford Rd. - 919.15
of Millers House - 839.31
Oswego, Hyd. - 740.66
Oswego - 930.16

LEGEND
Center line of street
North sidewalk line
South sidewalk line
Grade of top of curb
Grade of top of sewer
District boundary line

INDEX No. 575
SHELF No. 5
SIZE C
SUB No. 39
Drawn by *S. J. ...*
Traced by *S. J. ...*
Checked by *M. D.*

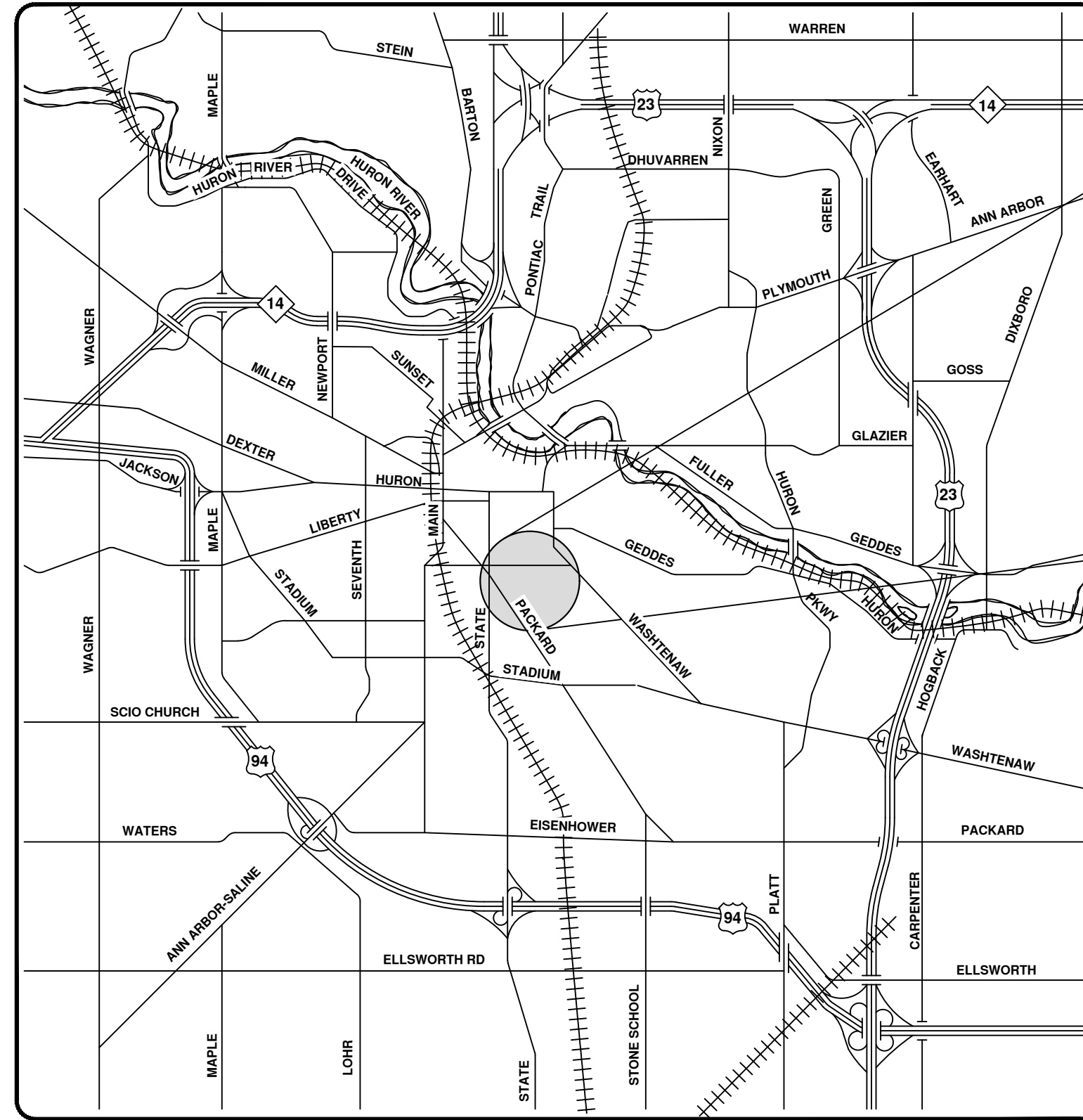
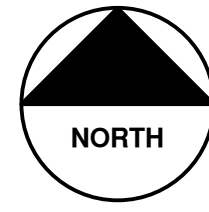
CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
PAVEMENT
DISTRICT No. 35
GEDDES AVE.
FROM OXFORD RD. TO OSWEGO ST.
Manley Osgood, City Engineer
1915-5-24
Scale - Plan = 40' Profile Horizontal = 40' Vertical = 1" = 4'
One Sheet Street No. 1.

Corrected to final measurements 1915-12-18 by W.C. Russell.



2023 SEWER LINING PROJECT

HILL ST



VICINITY MAP



R:\2023011 Sewer Lining 2023\Plan Production\2023011CovStorm.dwg - _s2 standard bw.stb - Plot Date: 8/4/2023 10:56:38 AM



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 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



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	8/4/23	ARG	IK

CITY OF ANN ARBOR
 PUBLIC SERVICES
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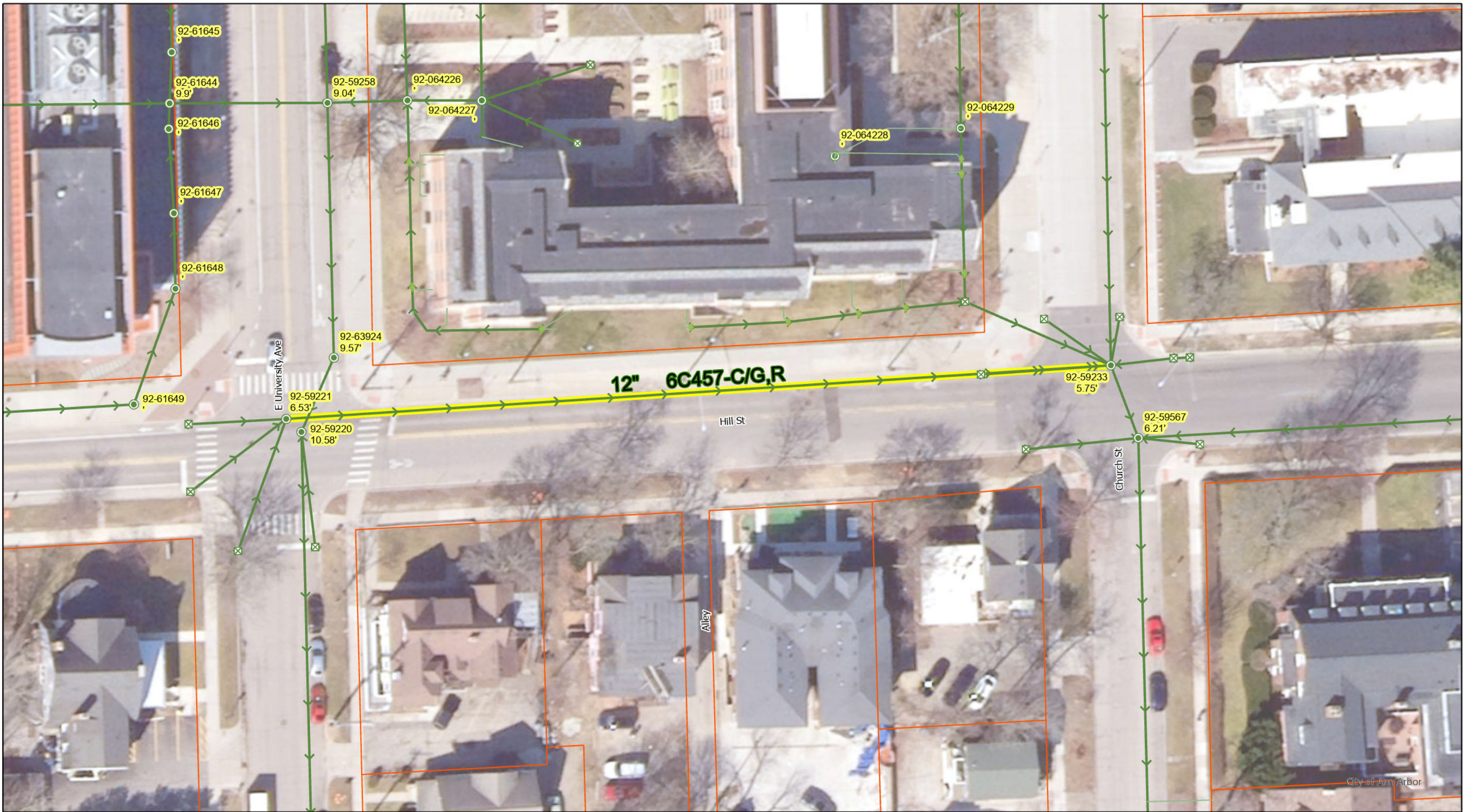


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2023011-108

SHEET No.

108 OF 119

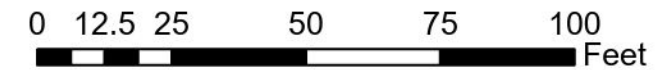


- Manhole
- ⊠ DInletST
- ◆ Junction
- Storm Main
- ServiceLine
- Proposed Lining

92-XXXXX (Manhole ID)

X.XX' (Manhole Depth)

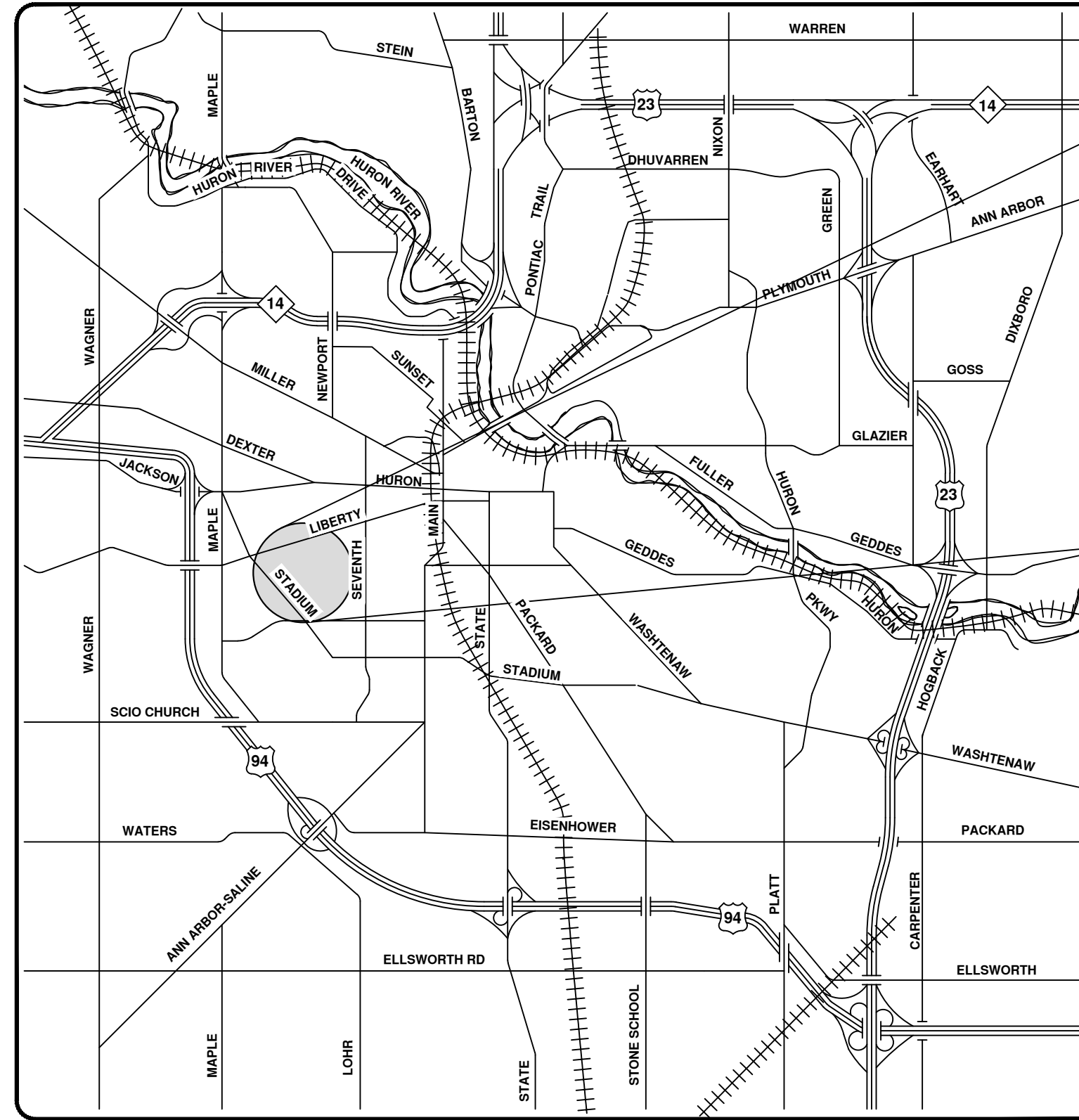
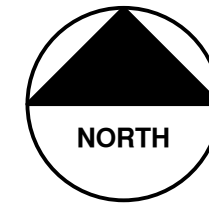
Hill St



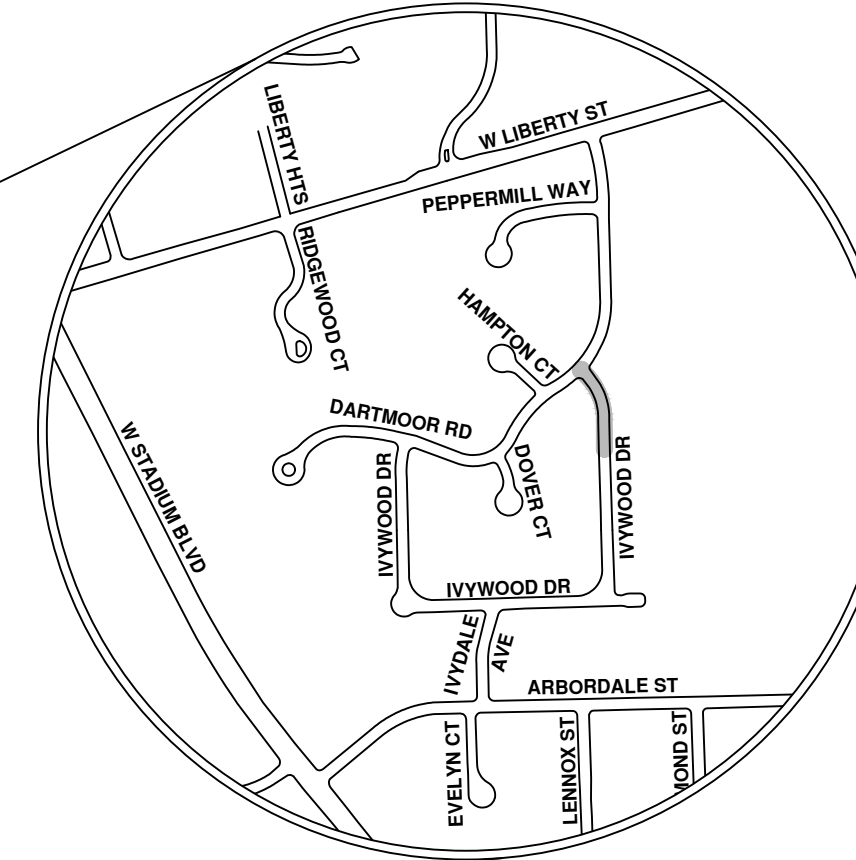


2023 SEWER LINING PROJECT

IVYWOOD DR



VICINITY MAP



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	8/4/23	ARG	IK

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2023011-111

SHEET No.

111 OF 119



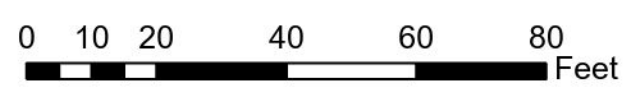
Ivywood Dr

- Manhole
- ⊠ DInletST
- ⊠ DTagInletST
- Storm Main
- ServiceLine
- Proposed Lining

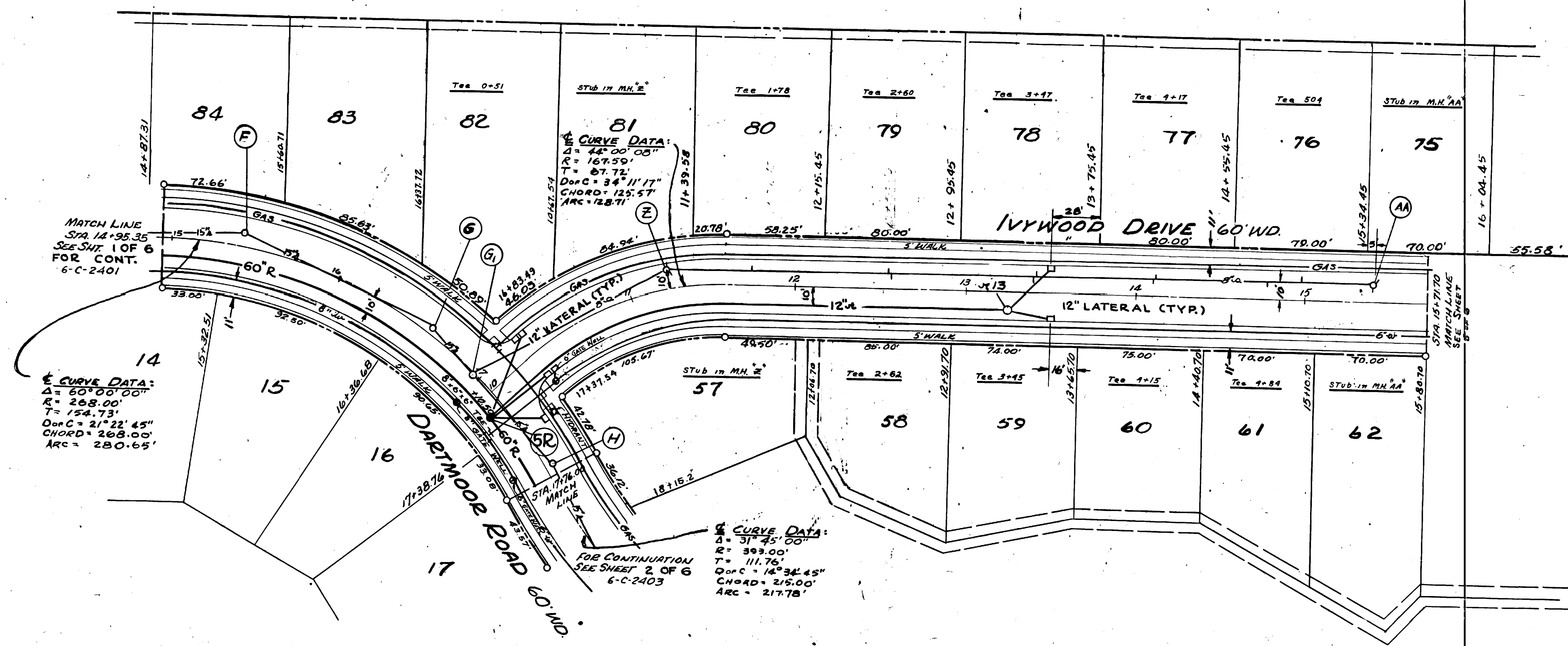
92-XXXXX (Manhole ID)
 X.XX' (Manhole Depth)



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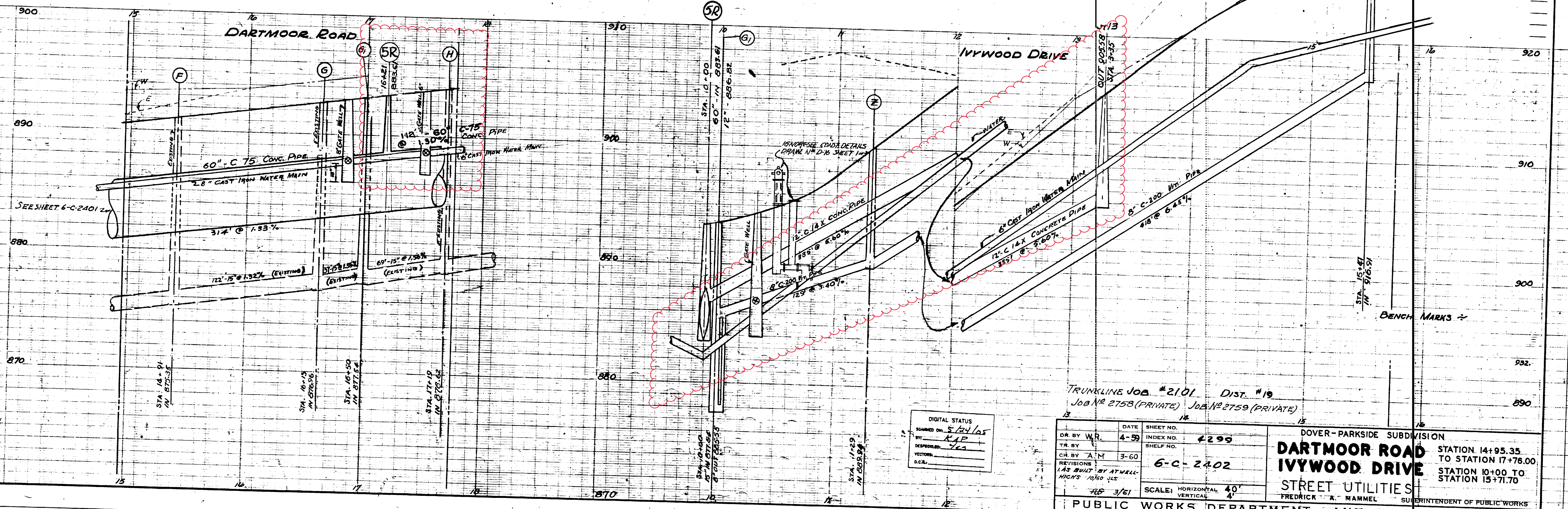
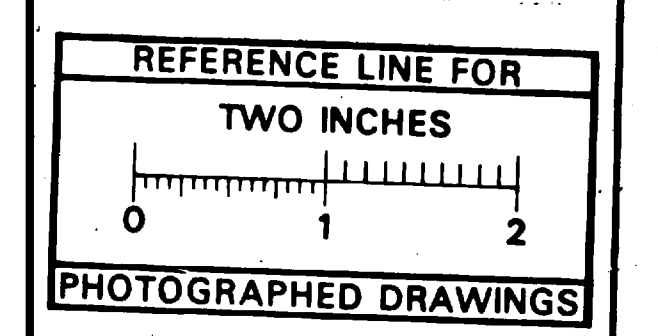


City of Ann Arbor



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

REFERENCES
 BENCH MARKS: SEE LOWER RIGHT CORNER DRAWING 3
 PROFILE & TOPO:

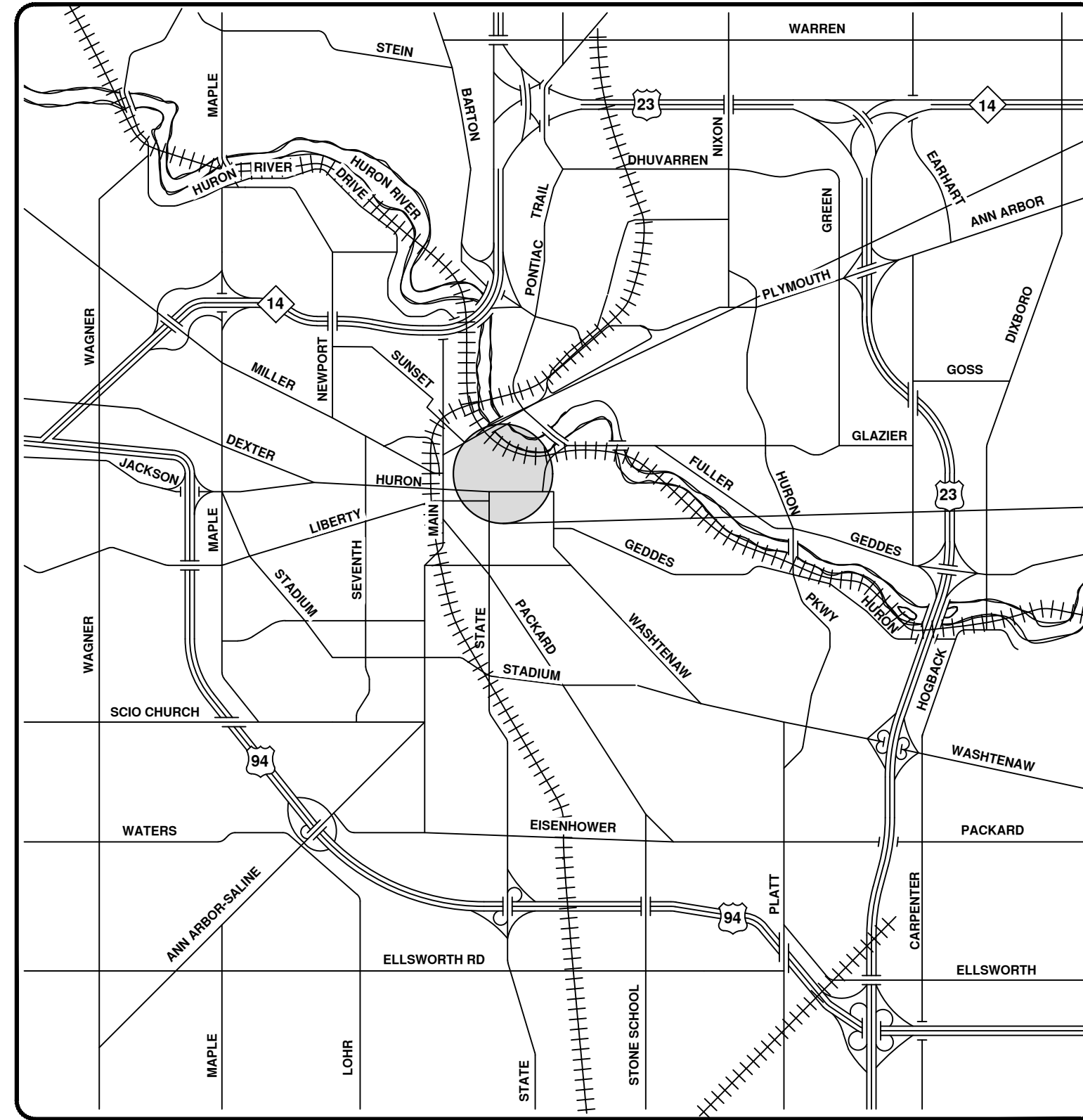
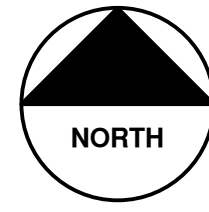


San Sec. 17, 59 14W
 Water Power 214 57 14W



2023 SEWER LINING PROJECT

LAWRENCE ST



VICINITY MAP



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00	BID SET	8/4/23	ARG	IK

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 PUBLIC SERVICES
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 ANN ARBOR, MI 48107-8647
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SCALE
 DRAWING No.
 2023011-114

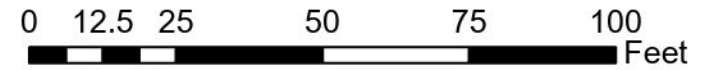
SHEET No.





114 OF 119



City of Ann Arbor

Lawrence St

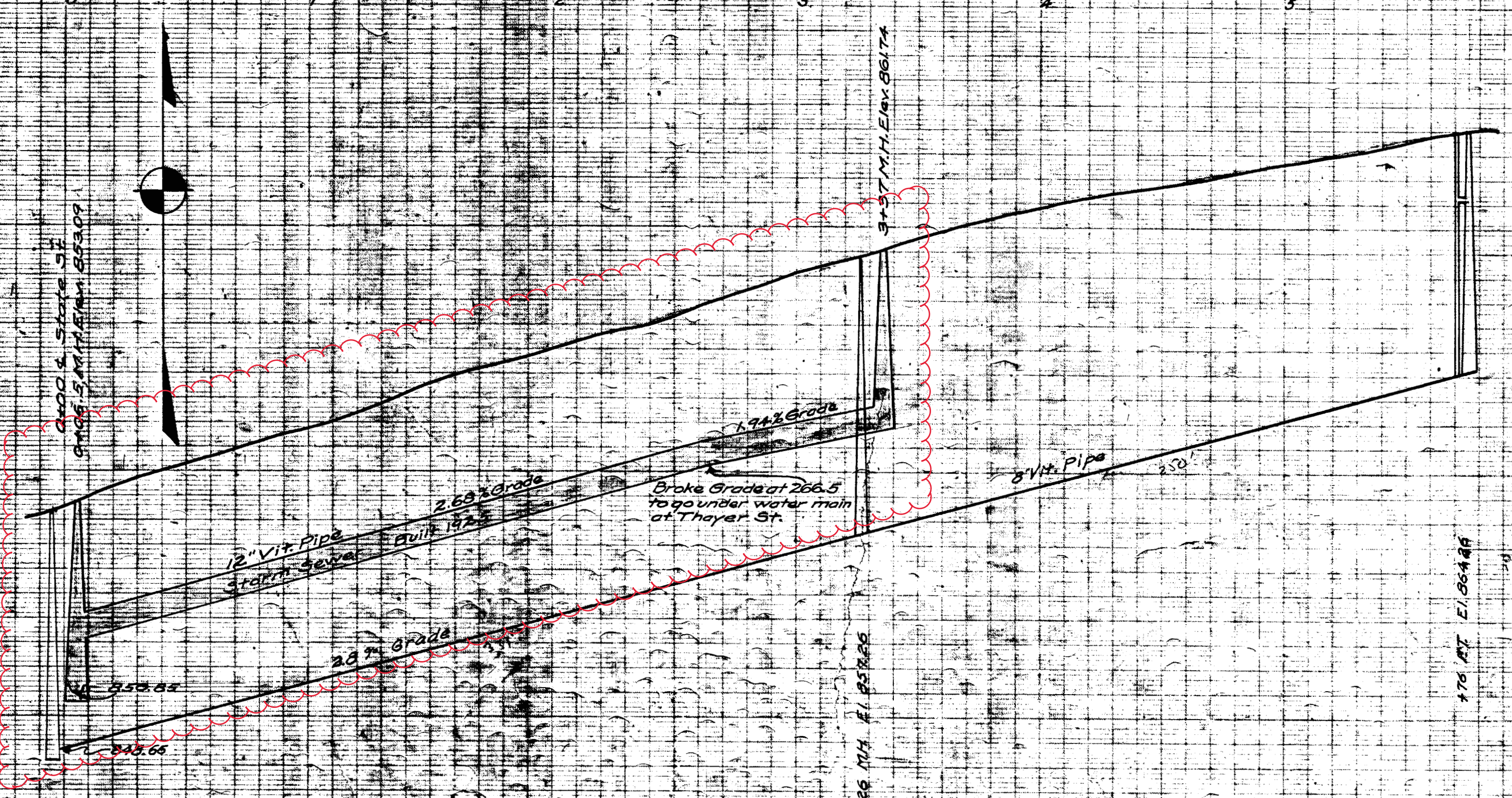
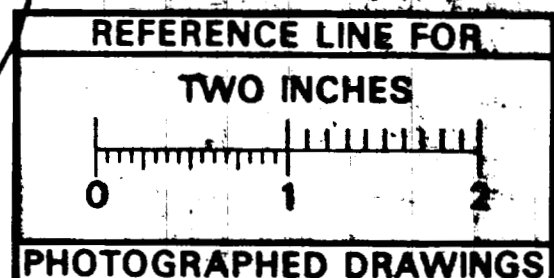
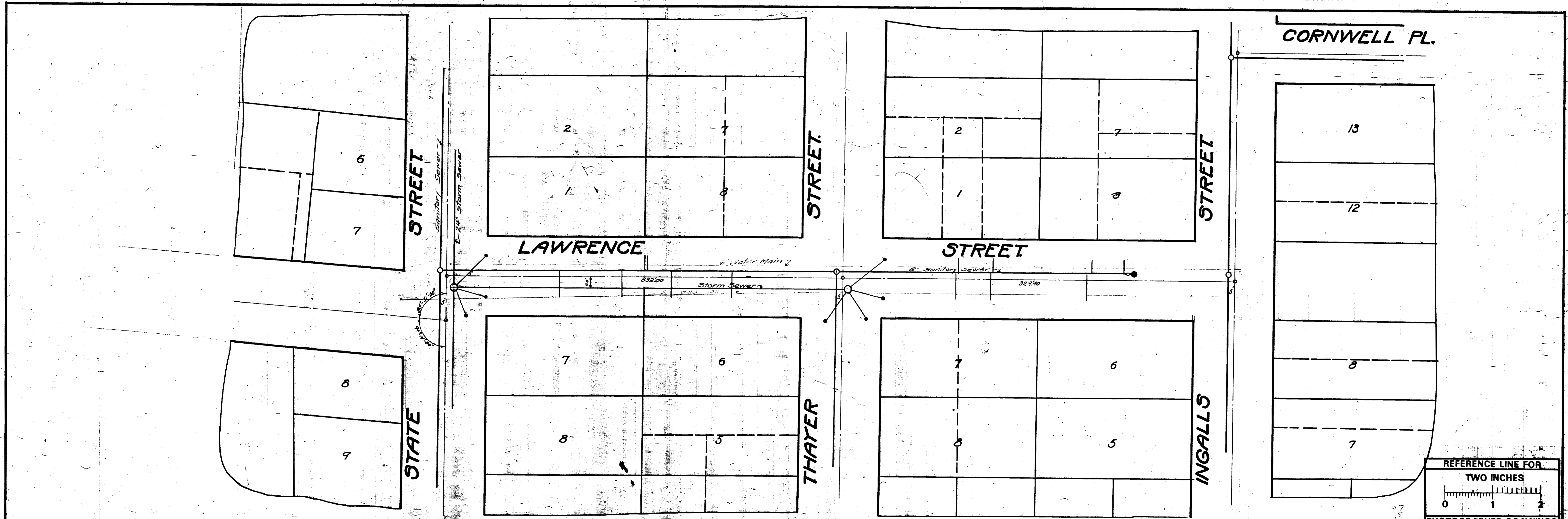


-  Manhole
-  DInletST
-  Junction
-  Storm Main
-  ServiceLine
-  Proposed Lining

92-XXXXX (Manhole ID)

X.XX' (Manhole Depth)





MEASUREMENTS TO HOUSE CONNECTIONS On Lawrence St. from State St. to Ingalls St. Sta. 0+0 of State St.

North	South
95	147
168.5	189
183	240
37	Sta. 0+0 of Thayer St.
126	95
209	124
235.7	205
	245 F.T.

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

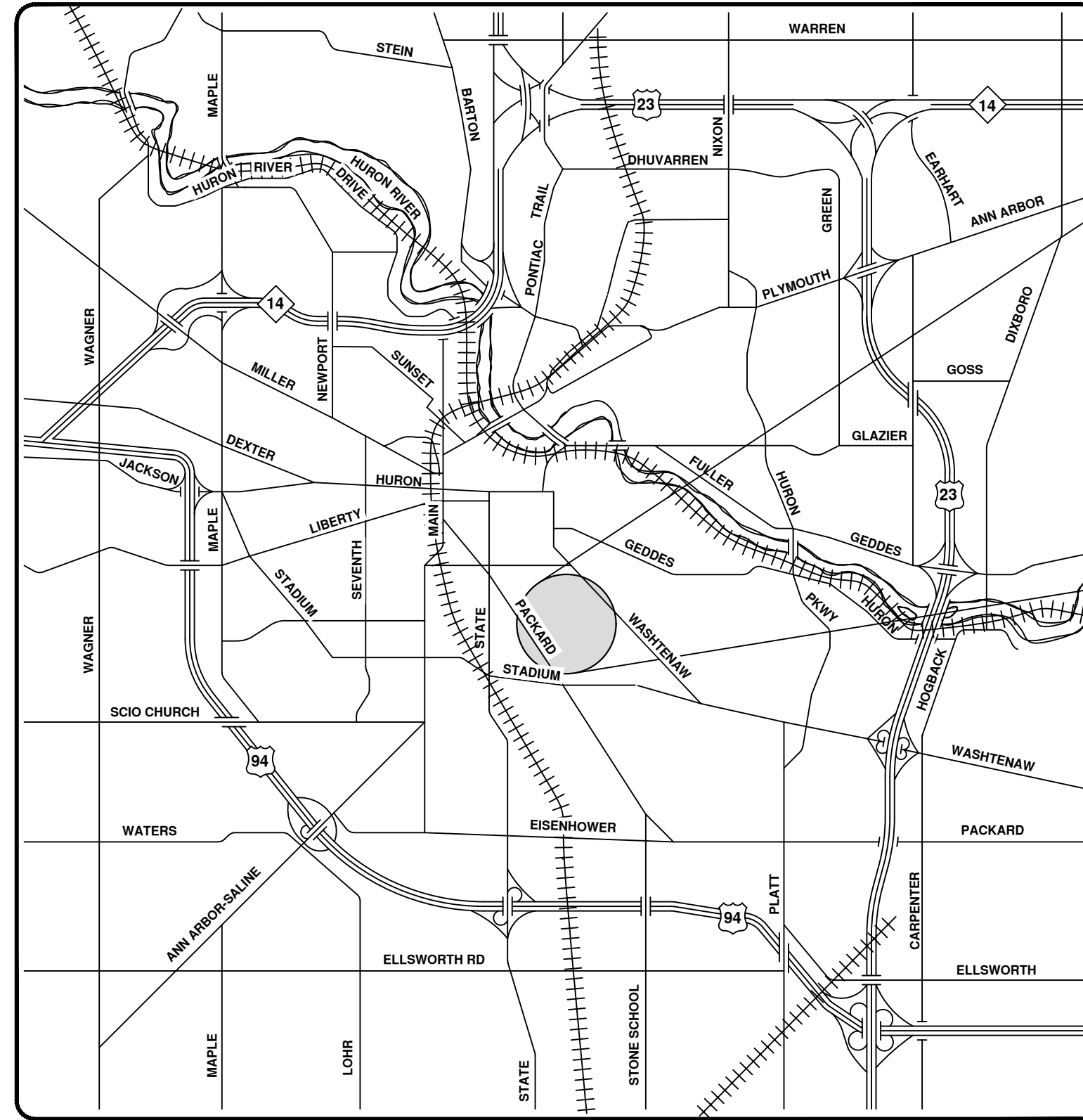
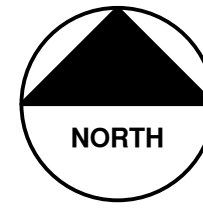
SHEET No. 190
INDEX No. 860
SHELF No. 6
SIZE C
SUB No. 244

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLANS AND PROFILES
OF
STORM AND SEWER
SANITARY SEWERS
ON
LAWRENCE ST.
STATE ST. TO INGALLS ST.
Drawn By
Traced By G.H. Sanderberg, City Engineer
Checked By J. 1918
Scale: Plan 1"=40' Profile 1"=10' Vert.



2023 SEWER LINING PROJECT

S FOREST AVE



VICINITY MAP

R:\2023011 Sewer Lining 2023\Plan Production\2023011CovStorm.dwg - _a2 standard bw.stb - Plot Date: 8/4/2023 10:56:53 AM



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00	BID SET	8/4/23	ARG	DRAWN
01			IK	CHECKED

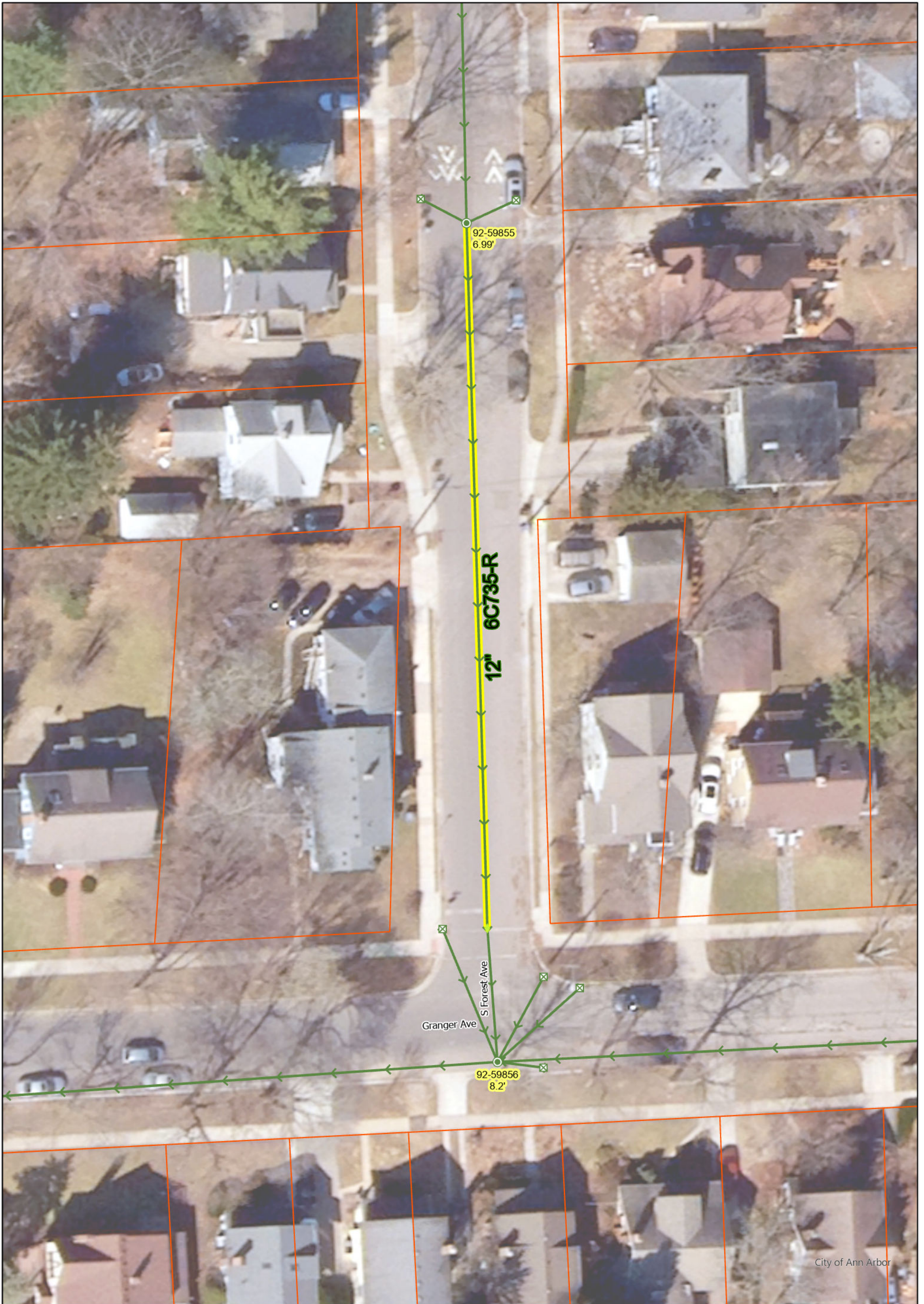
CITY OF ANN ARBOR
 PUBLIC SERVICES
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 ANN ARBOR, MI 48107-8647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE
 DRAWING No.
 2023011-117

SHEET No.
 117 OF 119



City of Ann Arbor

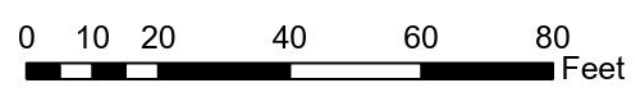
S Forest Ave

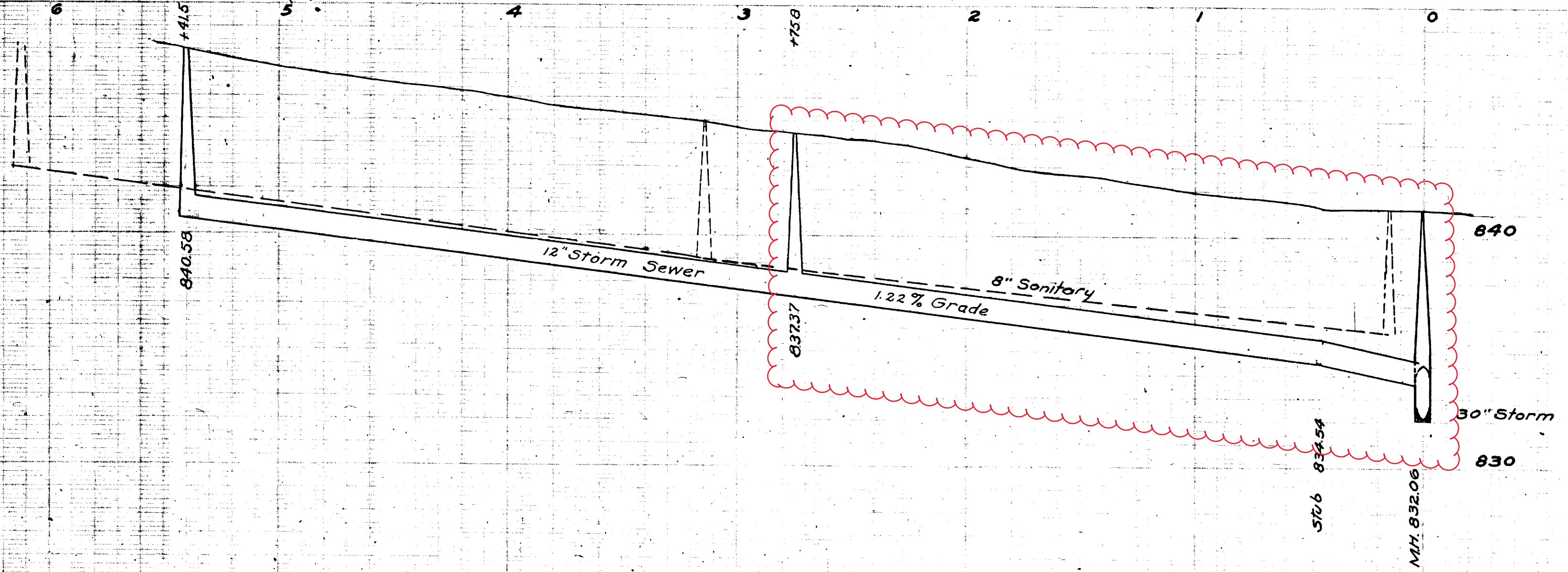
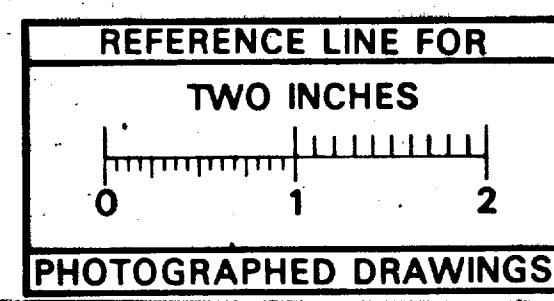
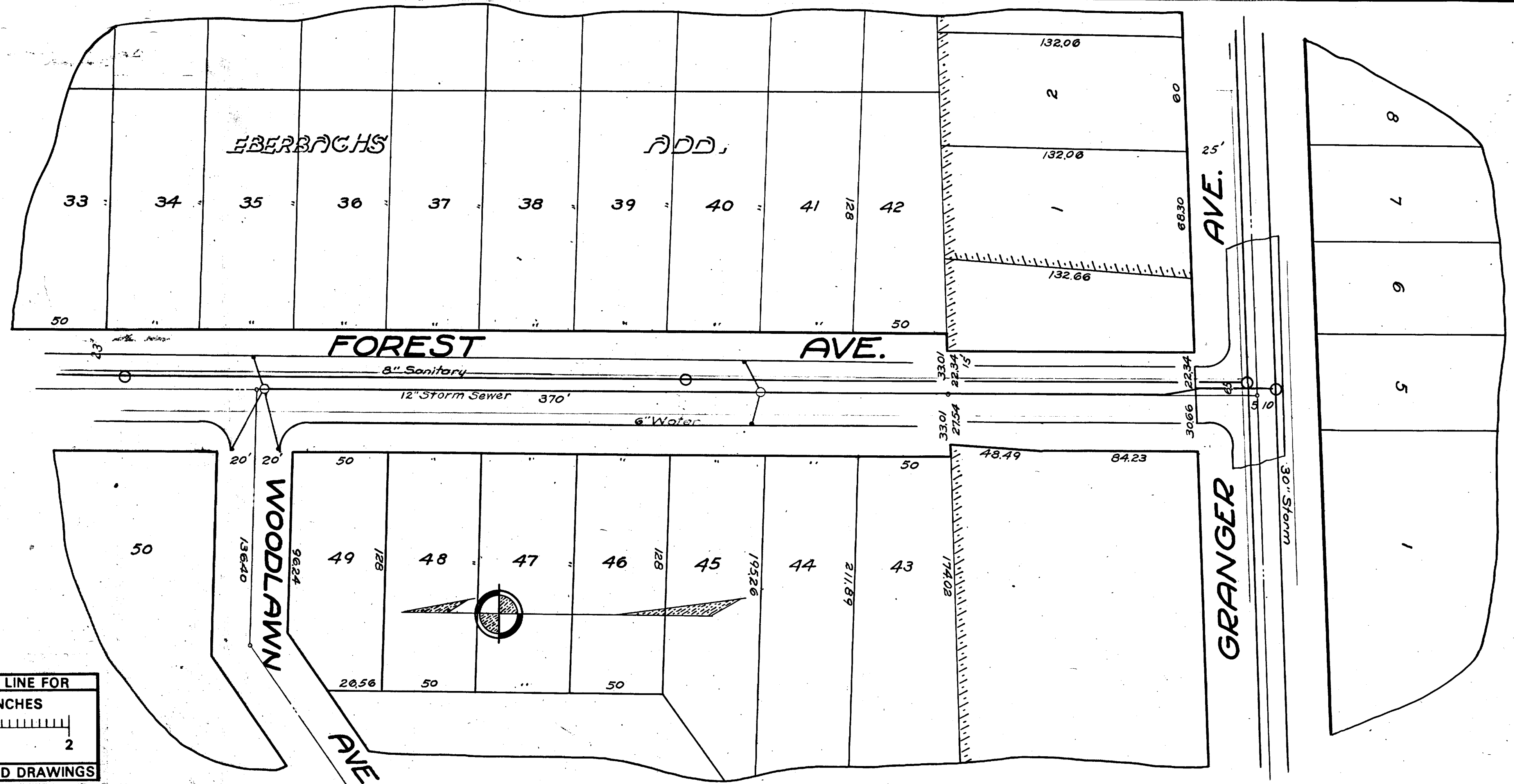
- Manhole
- ⊠ DInletST
- ◆ GradeChange
- Storm Main
- Proposed Lining

92-XXXXX (Manhole ID)
 X.XX' (Manhole Depth)



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

SHEET No.		CITY ENGINEER'S OFFICE ANN ARBOR, MICH. PLAN AND PROFILE OF STORM SEWER FOREST AVE. Granger Ave. to Woodlawn Ave.
INDEX No.	1958	
SHELF No.	6	
SIZE	C	
SUB. No.	735	
DRAWN BY		Geo. H. Sondenburgh City Engineer
TRACED BY	J.M.B.	1930-1-6
CHECKED BY	J.M.B.	Scale: Plan 1"=40' Profile Vert. 1"=4'