

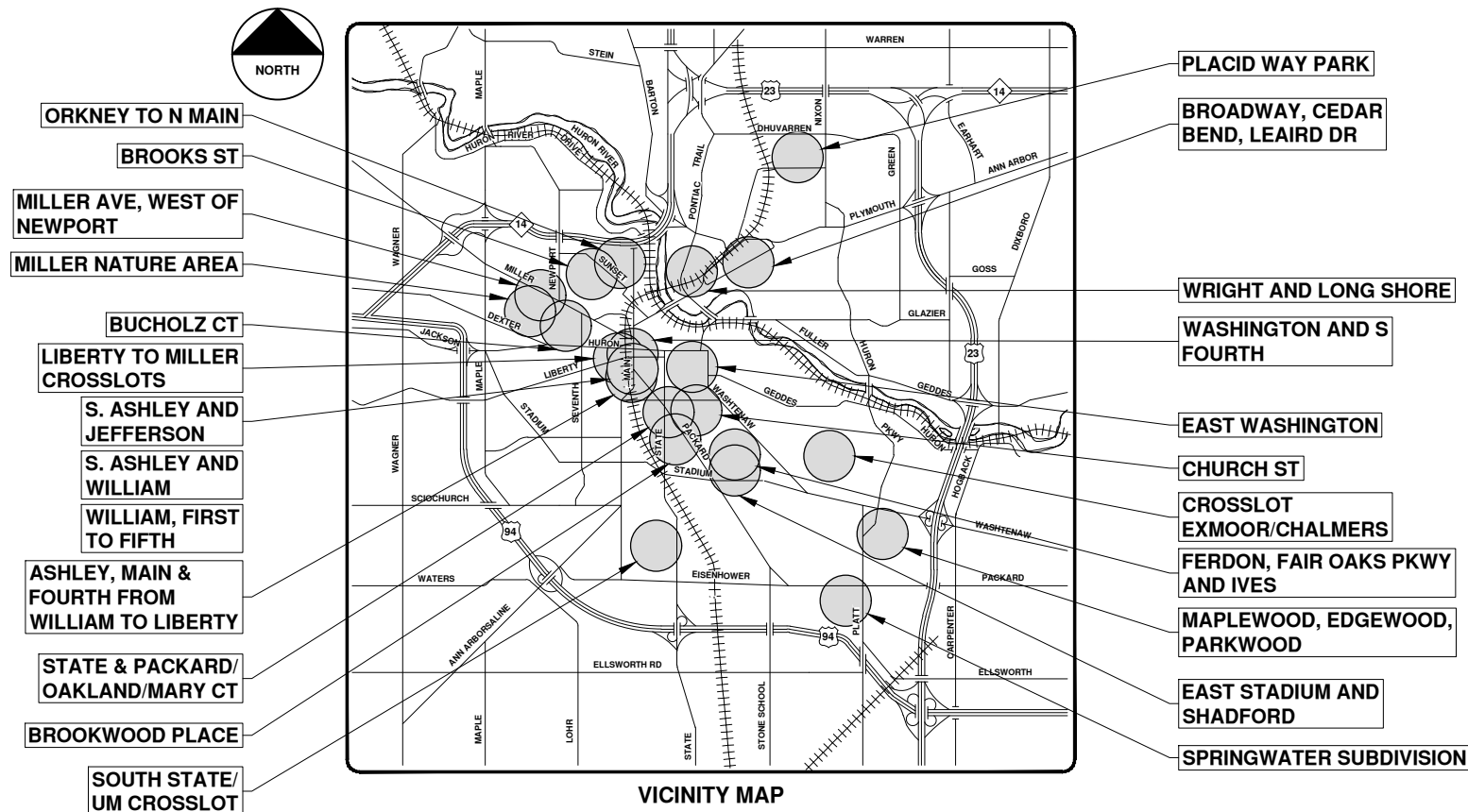


# CITY OF ANN ARBOR ENGINEERING

## 2018 SANITARY SEWER LINING

BID No. ITB 4540, FILE No. 2017032

SHEET LIST TABLE	
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6 - 10	S. ASHLEY AND WILLIAM
11 - 18	WILLIAM, FIRST TO FIFTH
19 - 23	LIBERTY TO MILLER CROSLOTS
24 - 30	STATE & PACKARD/OAKLAND/MARY CT
31 - 34	PLACID WAY PARK
35 - 38	CROSSLOT HURON HILLS
39 - 42	CROSSLOT EXMOOR/CHALMERS
43 - 45	EAST WASHINGTON
46 - 51	MAPLEWOOD, EDGEWOOD, PARKWOOD
52 - 56	SOUTH STATE/UM CROSSLOT
57 - 59	ORKNEY TO N MAIN
60 - 64	ASHLEY, MAIN & FOURTH FROM WILLIAM TO LIBERTY
65 - 69	FERDON, FAIR OAKS PKWY AND IVES
70 - 74	MILLER NATURE AREA
75 - 79	MILLER AVE, WEST OF NEWPORT
80 - 83	WASHINGTON AND S FOURTH
84 - 89	BROADWAY/CEDAR BEND/LEAIRD DR
90 - 104	SPRINGWATER SUBDIVISION
105 - 107	CHURCH ST
108 - 110	BROOKWOOD PLACE
111 - 115	WRIGHT AND LONG SHORE
116 - 123	EAST STADIUM AND SHADFORD
124 - 126	BROOKS ST
127 - 130	BUCHHOLZ CT



**NOTES**

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

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

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

PREPARED UNDER THE SUPERVISION OF

*Igor V. Kotlyar*  
IGOR V. KOTLYAR, P.E. - MI LICENSE No. 43287  
PROJECT ENGINEER

5/3/2018  
DATE



REV.	DATE	DESCRIPTION
00	5-3-18	BID SET
		DRAWN
		CHK

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-1007  
ANN ARBOR 734.764.5410  
www.a2gov.org



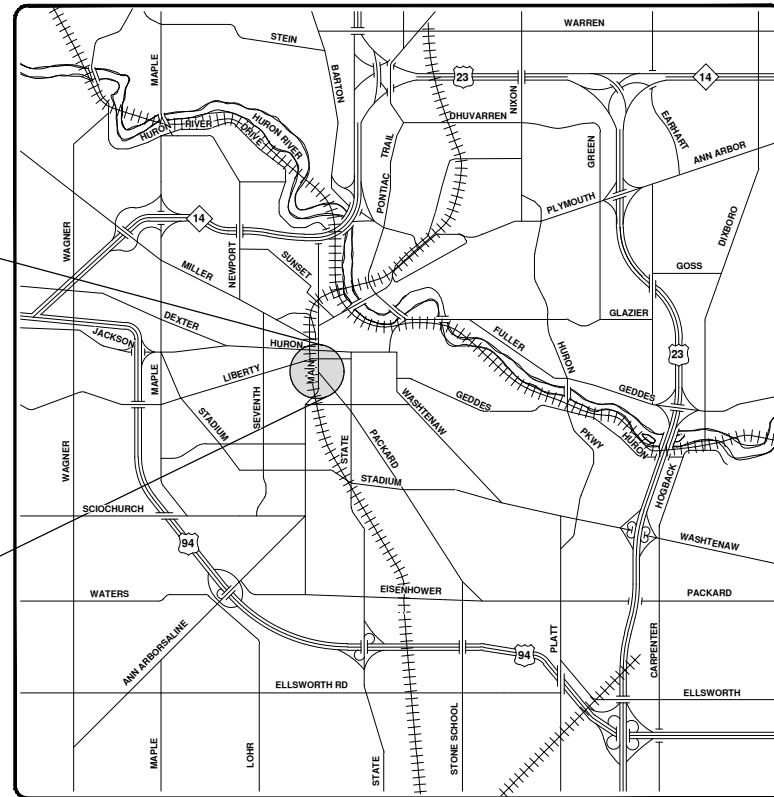
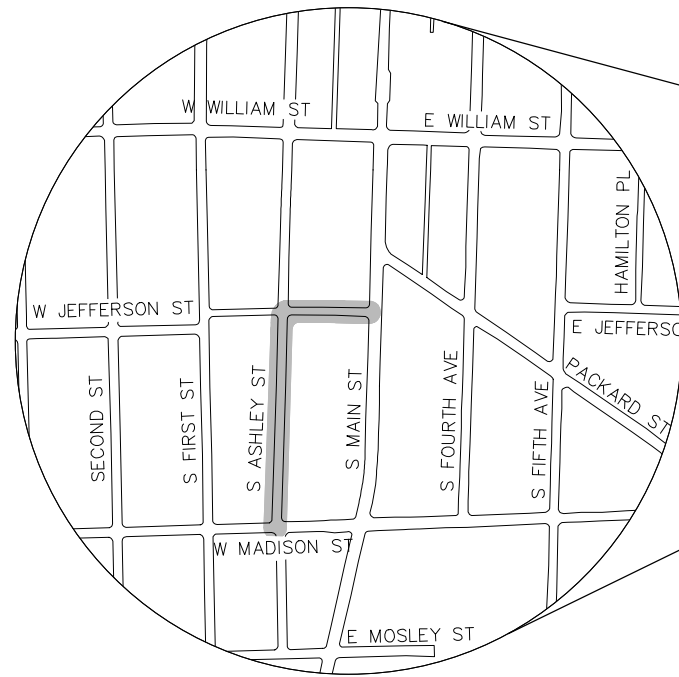
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE  
DRAWING No.  
2017032-1  
SHEET No.  
1 OF 130



# 2018 SANITARY SEWER LINING

## S. ASHLEY AND JEFFERSON



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg - \_a2 standard bw.stb - Plot Date: 4/27/2018 9:46:43 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	5-3-18	DPF	IVK

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

SCALE  
 DRAWING No.  
 2017032-2

SHEET No.  
 2 OF 130

© 2018 SANITARY SEWER LINING; LOCATION: S. ASHLEY AND JEFFERSON; 2017032





**Legend**

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

71-70682 (Manhole ID)

5.07 (Manhole Depth)

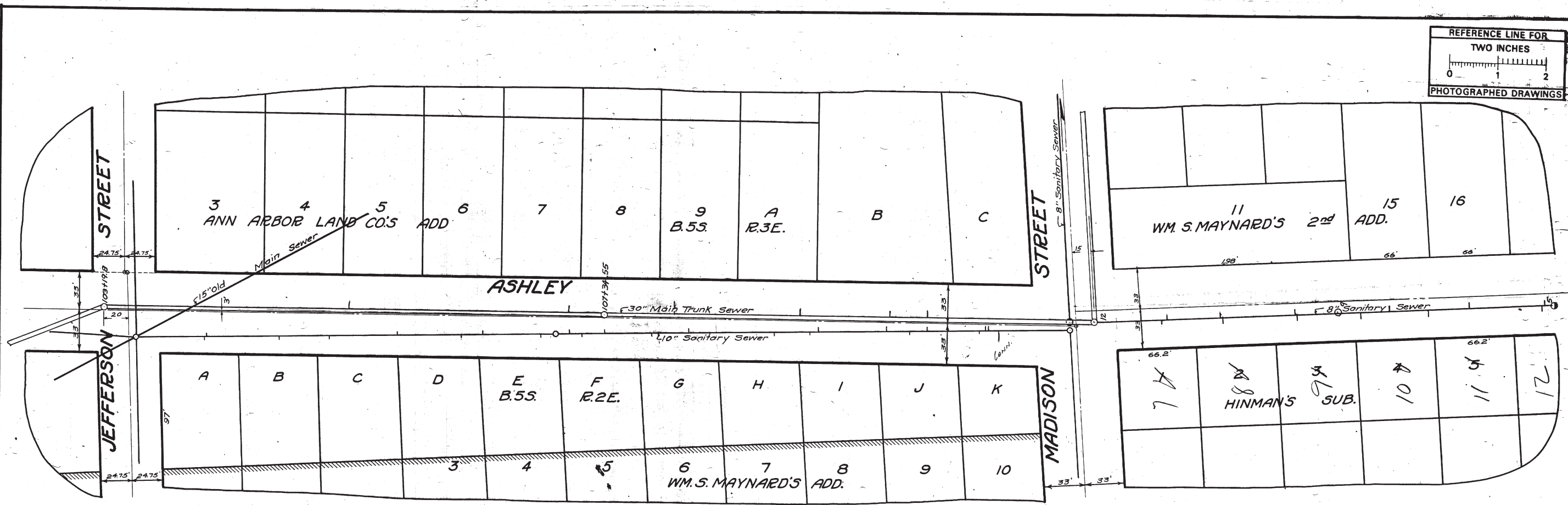
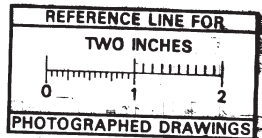
# S. Ashley and Jefferson



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**MEASUREMENTS TO HOUSE CONNECTIONS ON MAIN TRUNK SEWER**

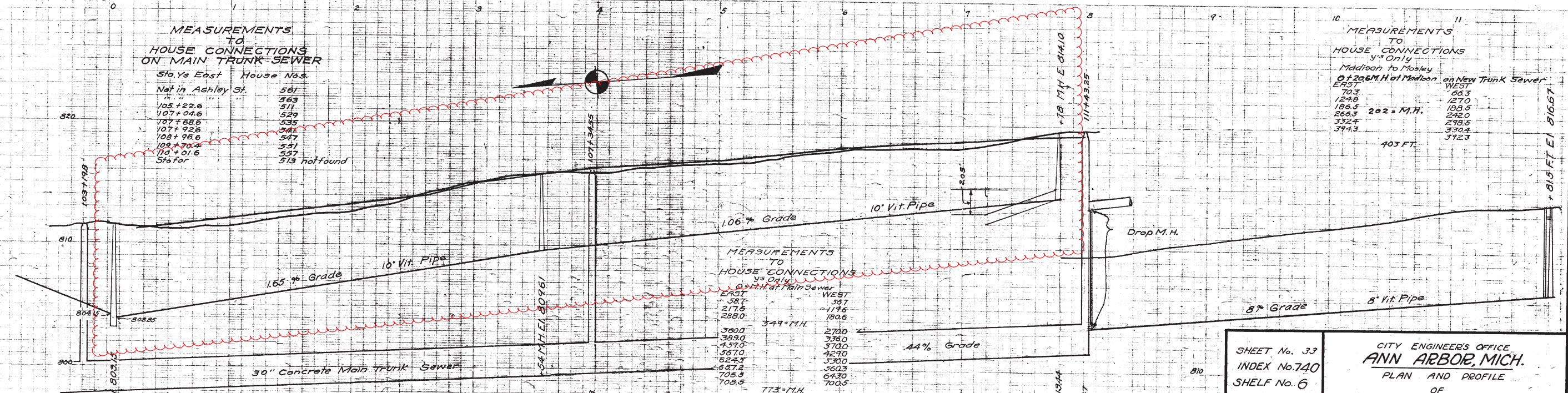
Sta. Vs East	House Nos.
Not in Ashley St.	561
105+22.6	563
107+04.6	511
107+58.6	529
107+92.8	535
108+96.6	548
108+70.2	547
110+01.6	551
Sta For	557
	513 not found

**MEASUREMENTS TO HOUSE CONNECTIONS y's Only**

Madison to Mosley		of 206 M.H. at Madison on New Trunk Sewer	
WEST	EAST	WEST	EAST
124.8	70.3	60.3	127.0
186.5	206.3	188.5	242.0
332.4	394.3	298.5	370.4
	403 FT.	312.3	

**MEASUREMENTS TO HOUSE CONNECTIONS y's Only**

at Main Sewer	
WEST	EAST
357	387
117.6	217.5
180.6	288.0
270.0	360.0
338.0	389.0
370.0	457.0
427.0	567.0
530.0	624.3
560.3	657.2
643.0	705.3
700.5	708.6



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

SHEET No. 33  
INDEX No. 740  
SHELF No. 6  
SIZE C  
SUB No. 126A

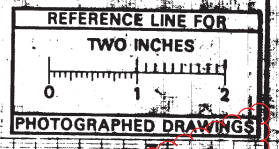
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Traced by Feiner  
Checked by Jf

CITY ENGINEER'S OFFICE  
**ANN ARBOR, MICH.**  
PLAN AND PROFILE  
OF  
SANITARY SEWER  
**ASHLEY ST.**  
JEFFERSON TO MOSELY  
Manley Osgood, City Engineer.  
1917  
Scales - Plan 1"=40' Profile - Horizontal 1"=4'





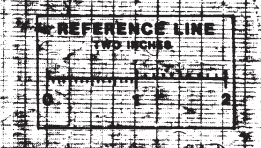
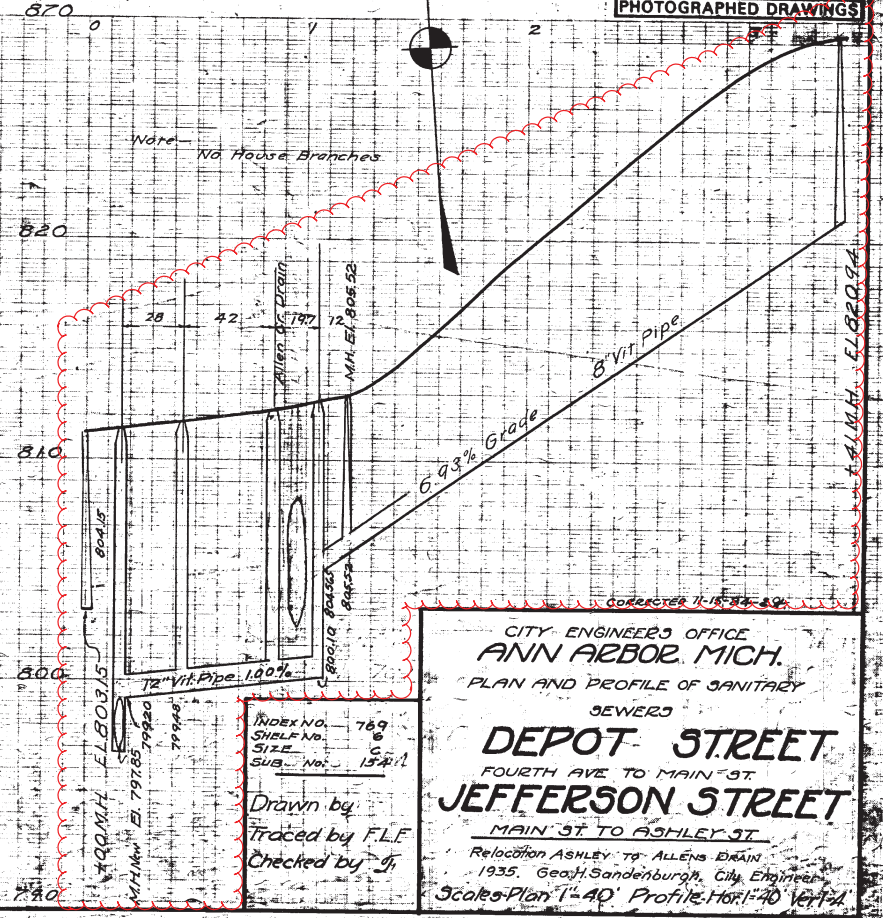
NOTE:  
FOR NEW 15" CONNECTION FROM  
OLD MAIN SANITARY TO 30" MAIN  
TRUNK SAN. SEE 6-C-3257.



MEASUREMENTS  
TO  
HOUSE CONNECTIONS  
ON Depot St. From Fourth Ave. to Main St.  
3720 - MFL @ Fourth Ave.

North	South
No. Ys	Yes. Orils
36	305
145	185
169	204
210	280.5
268.5	342.5
352.5	342.5

Note  
FOR PROFILE ON DEPOT ST.  
BETW. FOURTH AVE. & MAIN ST.  
SEE 80064.



INDEX NO. 769  
SHEET NO. C  
SUB. NO. 15211  
Drawn by  
Traced by F.L.E.  
Checked by J.

CITY ENGINEER'S OFFICE  
ANN ARBOR, MICH.  
PLAN AND PROFILE OF SANITARY  
SEWERS  
**DEPOT STREET**  
FOURTH AVE TO MAIN ST.  
**JEFFERSON STREET**  
MAIN ST TO ASHLEY ST  
Relocation ASHLEY TO ALLENS CREEK DRAIN  
1935. Geogr. Sandenburgh, City Engineer  
Scale: Plan 1"=40' Profile: Hor. 1"=40' Vert. 1"=4'

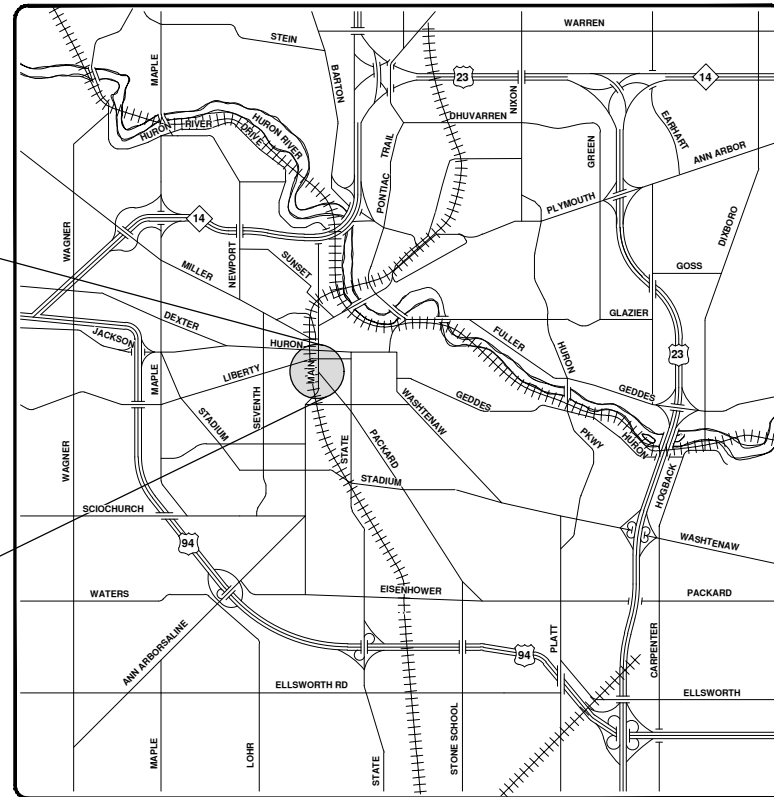
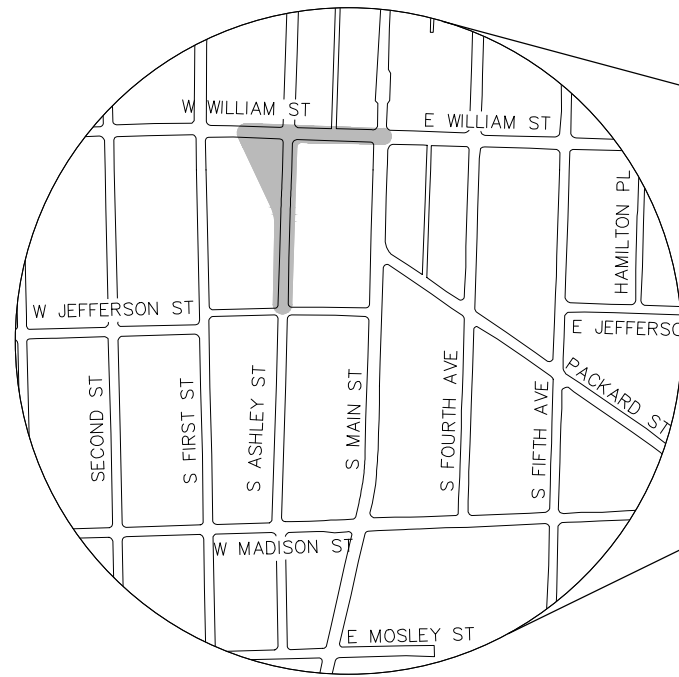
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By: DGK  
Despeckled: Yes  
Vectors:  
O.C.R.:





# 2018 SANITARY SEWER LINING

## S. ASHLEY AND WILLIAM




VICINITY MAP

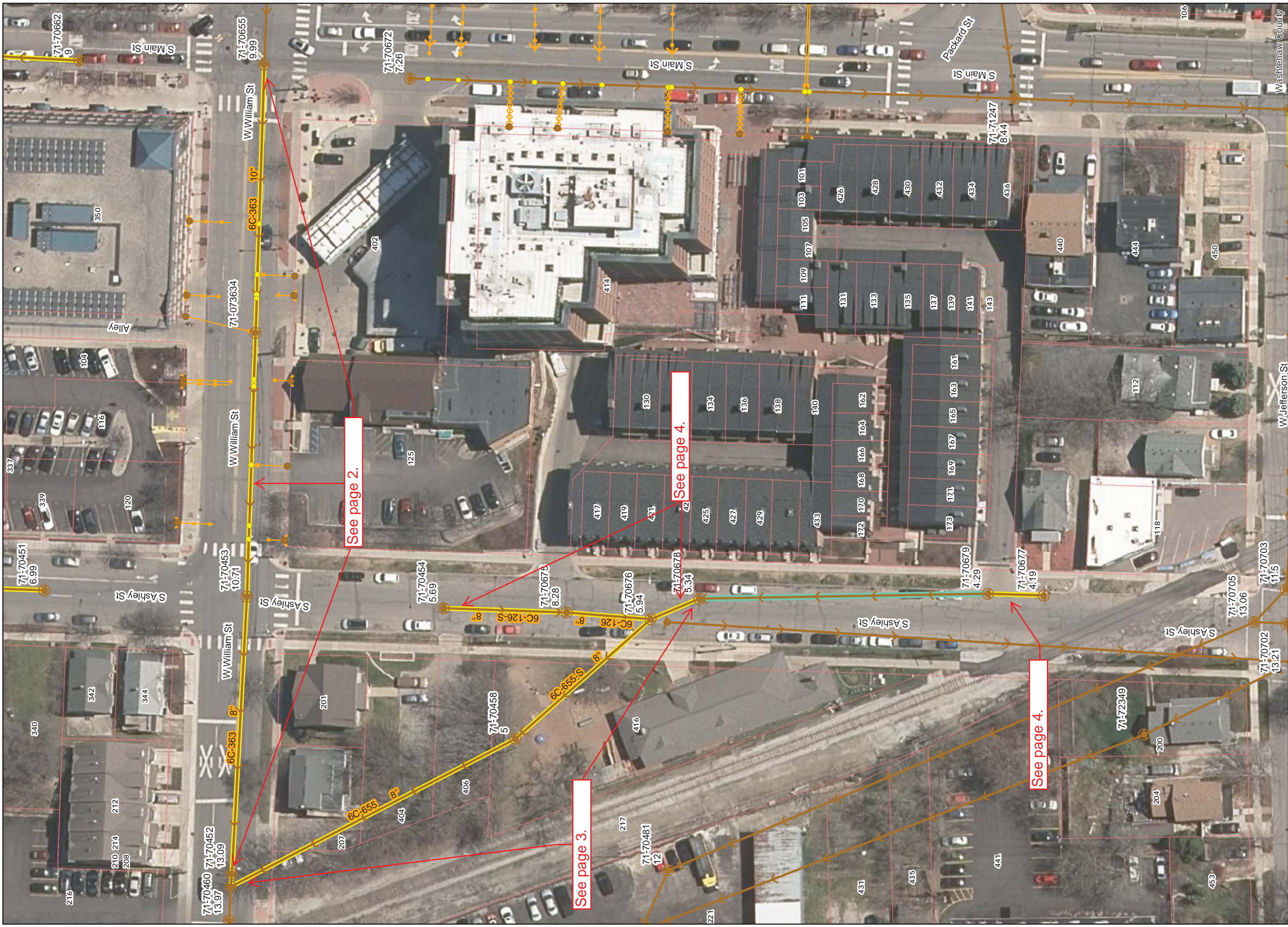
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**ENGINEERING**  
 CITY OF ANN ARBOR PUBLIC SERVICES  
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 ANN ARBOR, MICHIGAN 48107-8647  
 734-794-6410 www.a2gov.org

		CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING SCALE SHEET No. 6 OF 130	
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 301 EAST HURON STREET ANN ARBOR, MI 48107-8647 734-794-6410 www.a2gov.org	
REV.	DESCRIPTION	DATE	CHECKED
00	BID SET	5-3-18	DPF
			INK





**Legend**

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

71-70682 (Manhole ID)

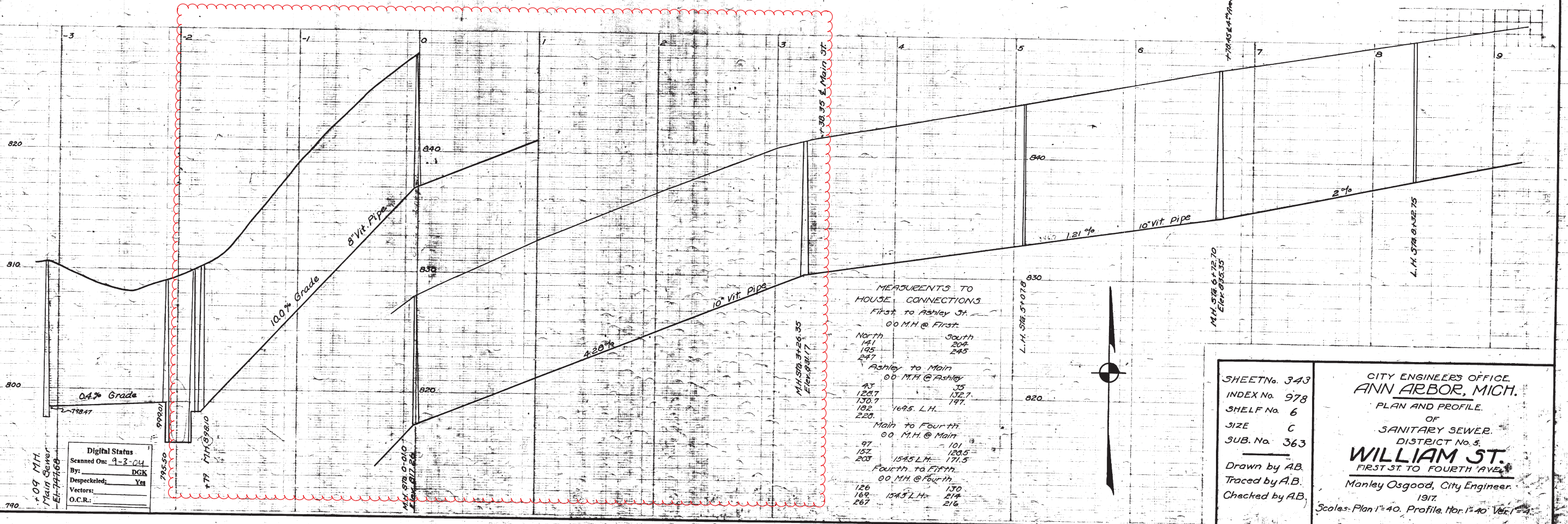
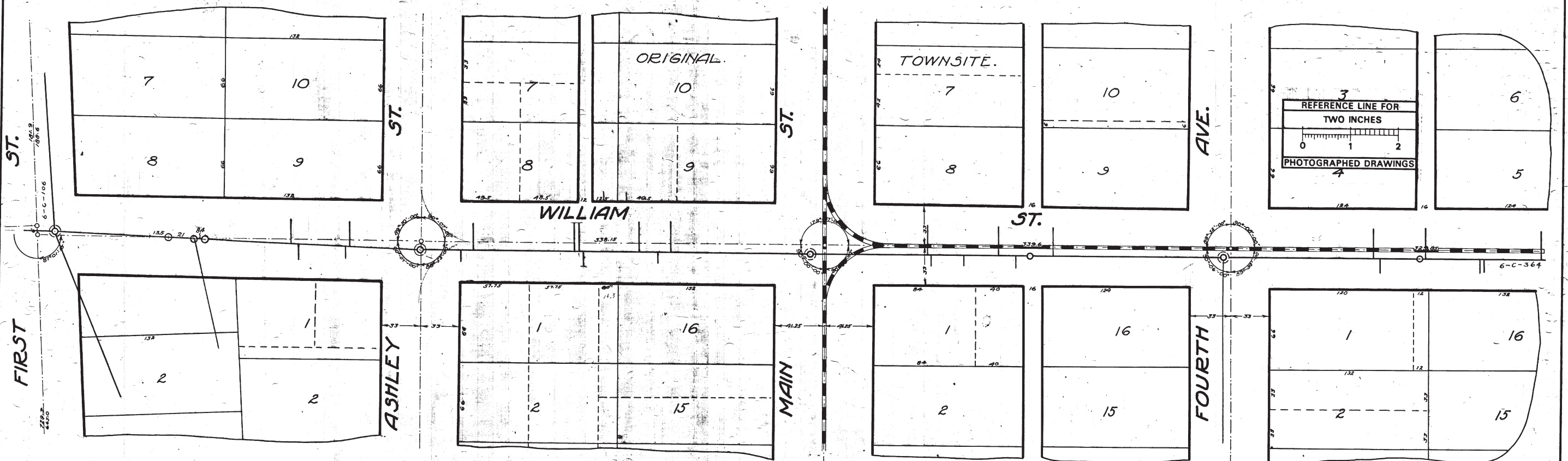
5.07 (Manhole Depth)

# S Ashley and William

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SHEET No. 343  
 INDEX No. 978  
 SHELF No. 6  
 SIZE C  
 SUB. No. 363

Drawn by A.B.  
 Traced by A.B.  
 Checked by A.B.

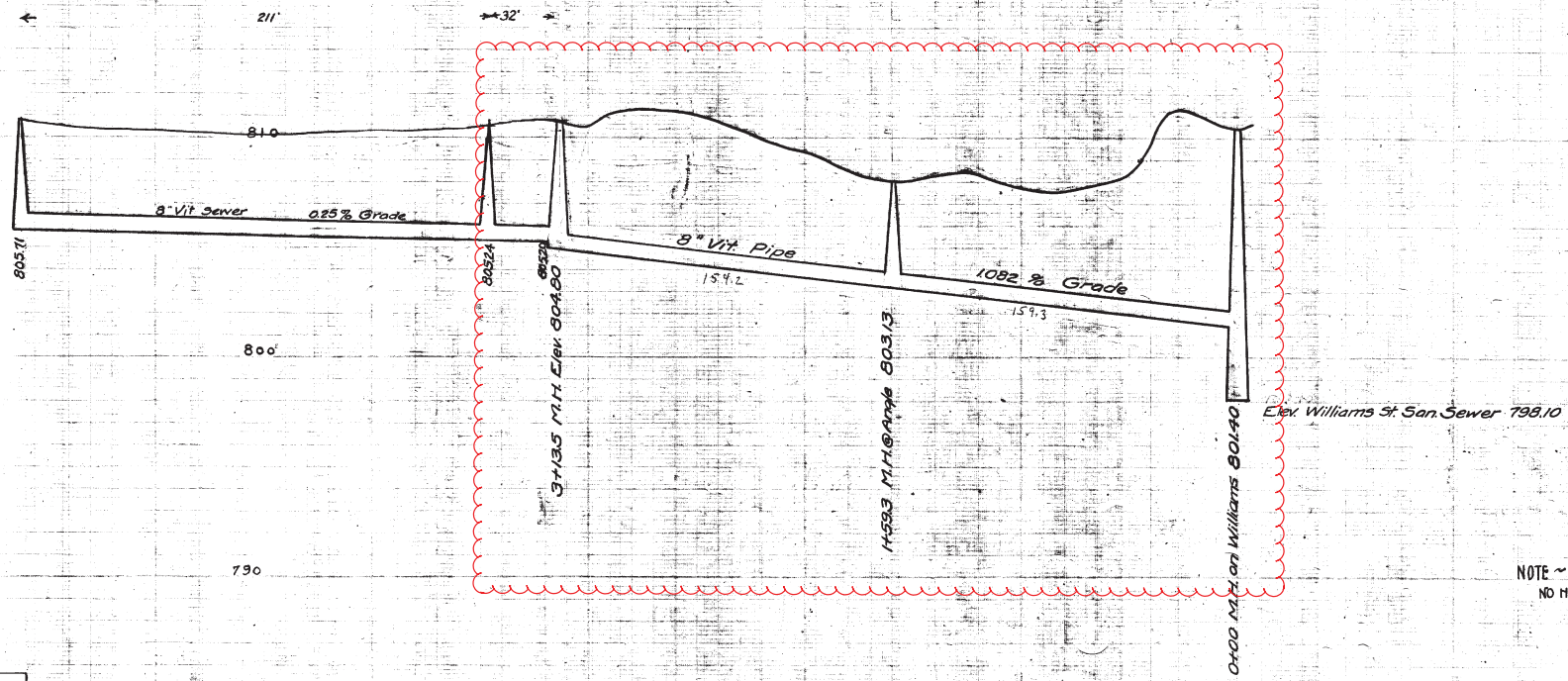
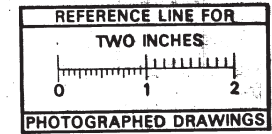
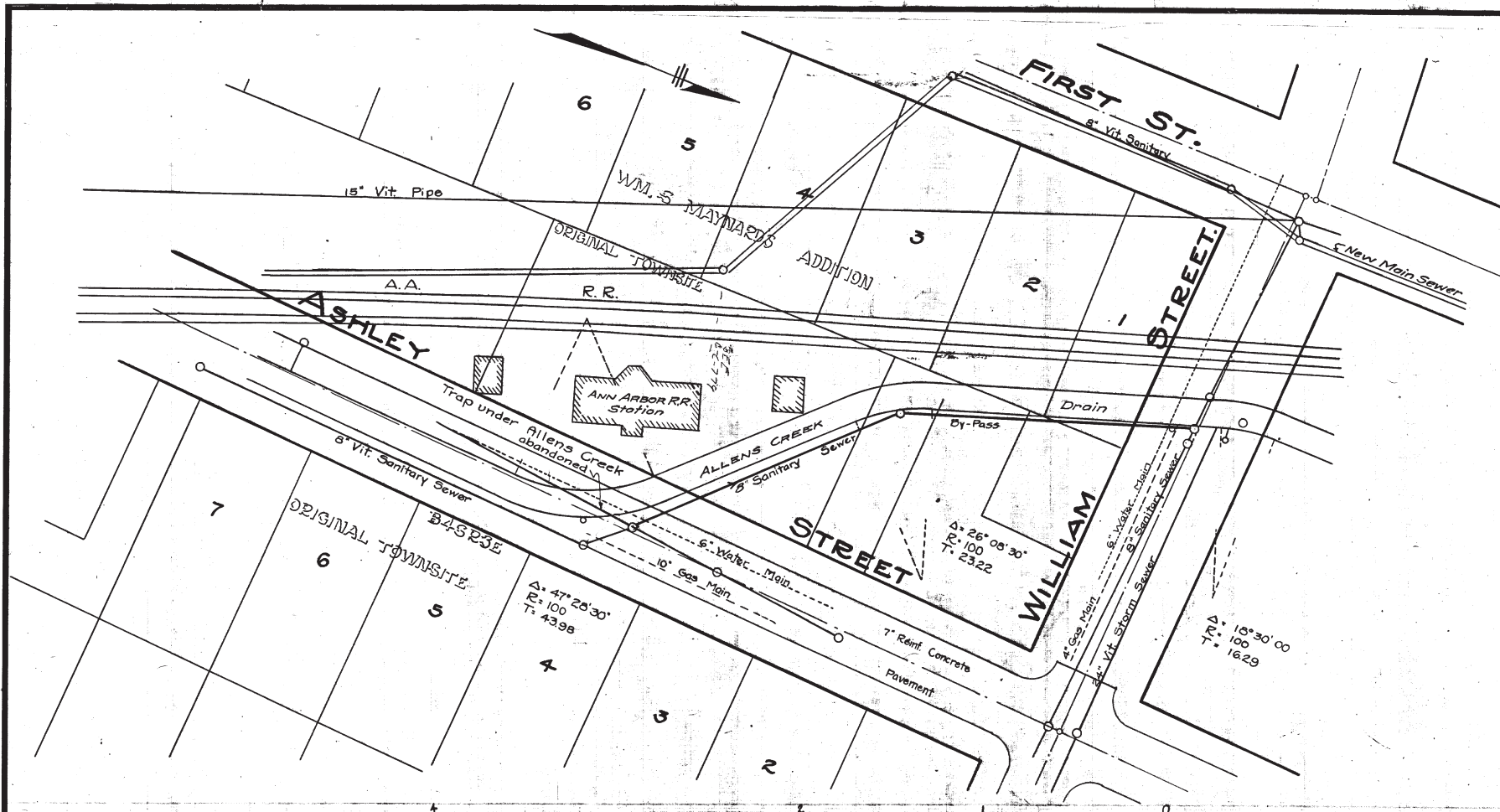
CITY ENGINEER'S OFFICE  
 ANN ARBOR, MICH.  
 PLAN AND PROFILE  
 OF  
 SANITARY SEWER  
 DISTRICT No. 5  
**WILLIAM ST.**  
 FIRST ST. TO FOURTH AVE.  
 Manley Osgood, City Engineer.  
 1917

Scales: Plan 1"=40'. Profile 1/4"=40' Ver. 1"=4'

109 M.H.  
 Main Sewer  
 Et-74769

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





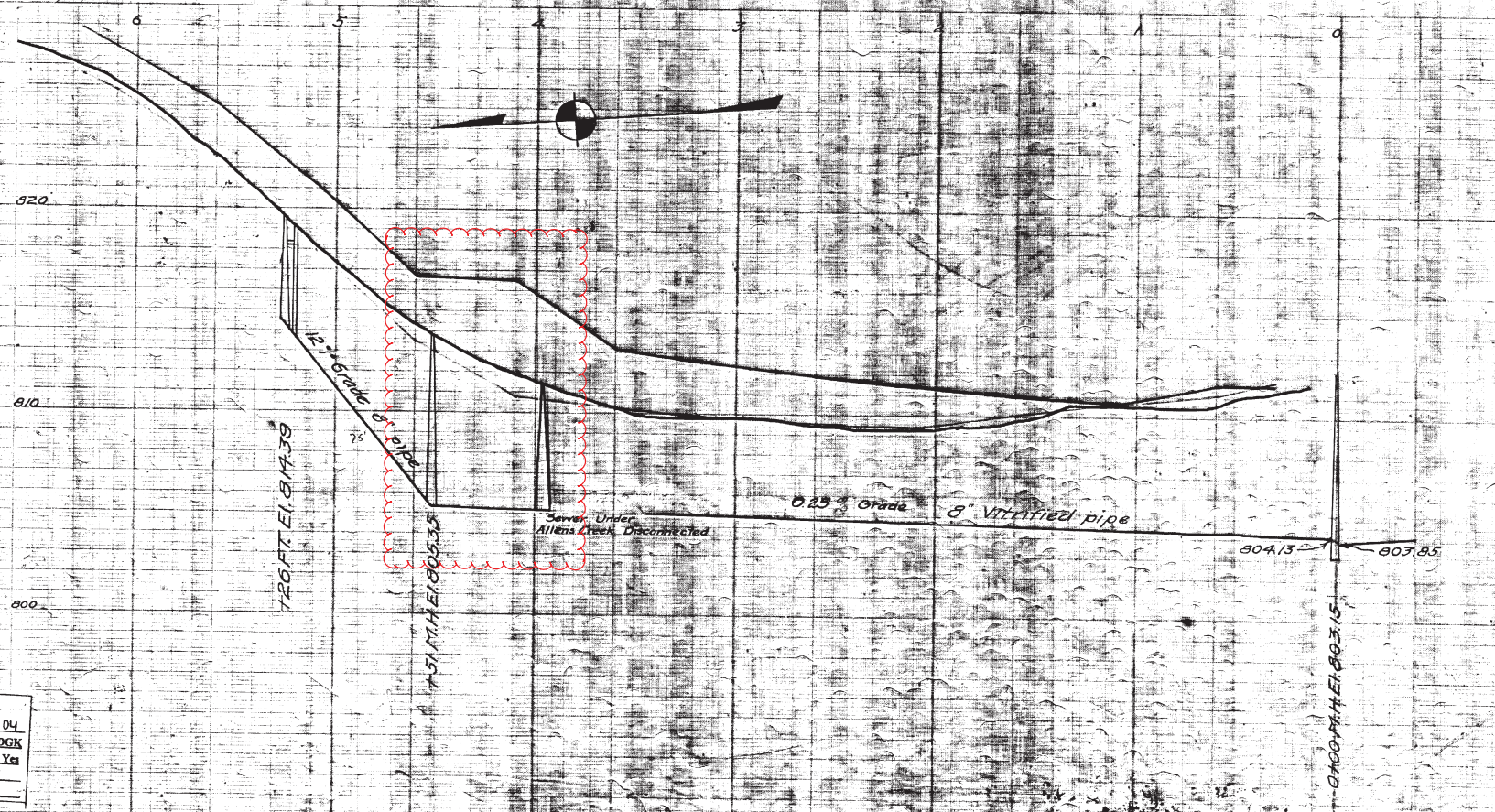
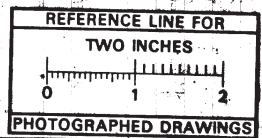
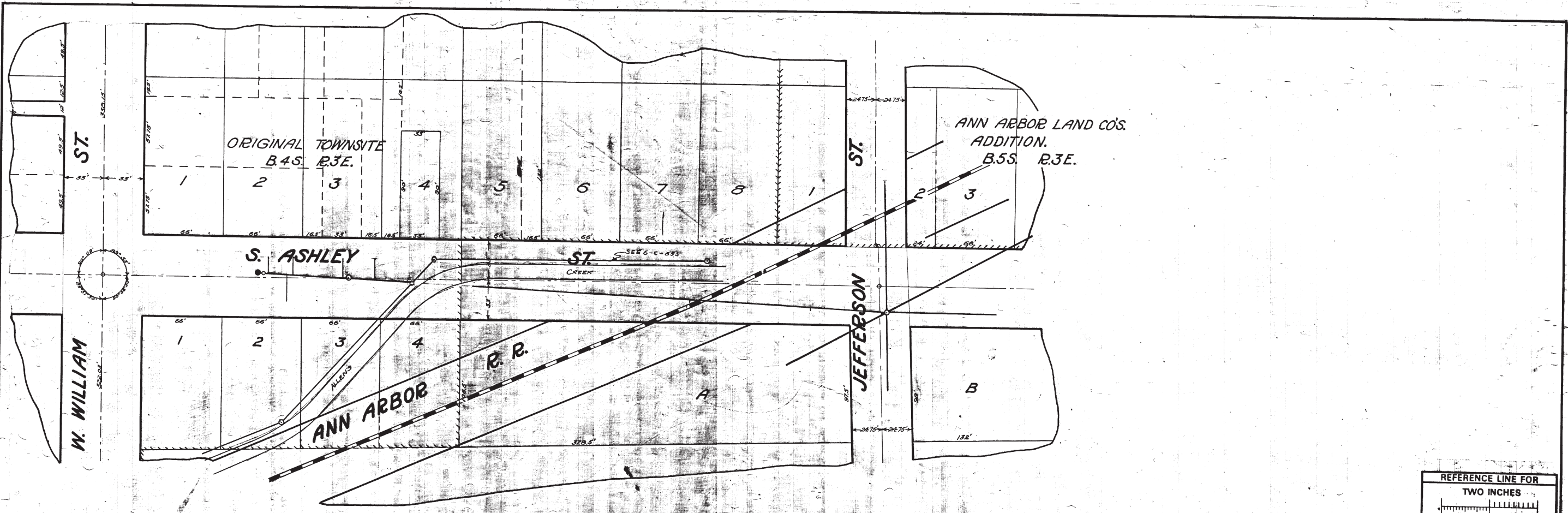
NOTE ~  
NO HOUSE CONNECTIONS

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

INDEX 1704  
SHELF 6  
SIZE C  
SUB 655

WASHTENAW COUNTY MICHIGAN  
ANN ARBOR TOWNSHIP  
**ALLENS CREEK DRAIN  
&  
SANITARY SEWER BY-PASS**  
ASHLEY TO WILLIAMS  
**PLAN, PROFILE &  
RIGHT-OF-WAY**  
10-31-1927  
Drawn by Clayton Deake  
Traced by Geo. H. Sandenburgh  
Checked by Drain Commissioner  
Scale Horizontal 1" = 40' Vertical 1" = 4'





Note: For grade of new sewer on East Side of Ashley, across A.A.R.R. property to William St., see plan of Allen's Creek By Pass, Page 16c.

MEASUREMENTS TO HOUSE CONNECTIONS Jefferson to William Sts.

EAST		WEST	
0	11.1	0	165.0-40 only
104.5		64.0	
175.0		403.0	
234.0		516.0	
275.4			
330.2			
377.0			
424.0			
455.5			
477.0			
516.0			
451.0 - M.H.		526.0 - FT.	

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

SHEET No. 32  
INDEX No. 739  
SHELF No. 6  
SIZE C.  
SUB No. 126

Drawn by H.P.  
Traced by H.P.  
Checked by J.

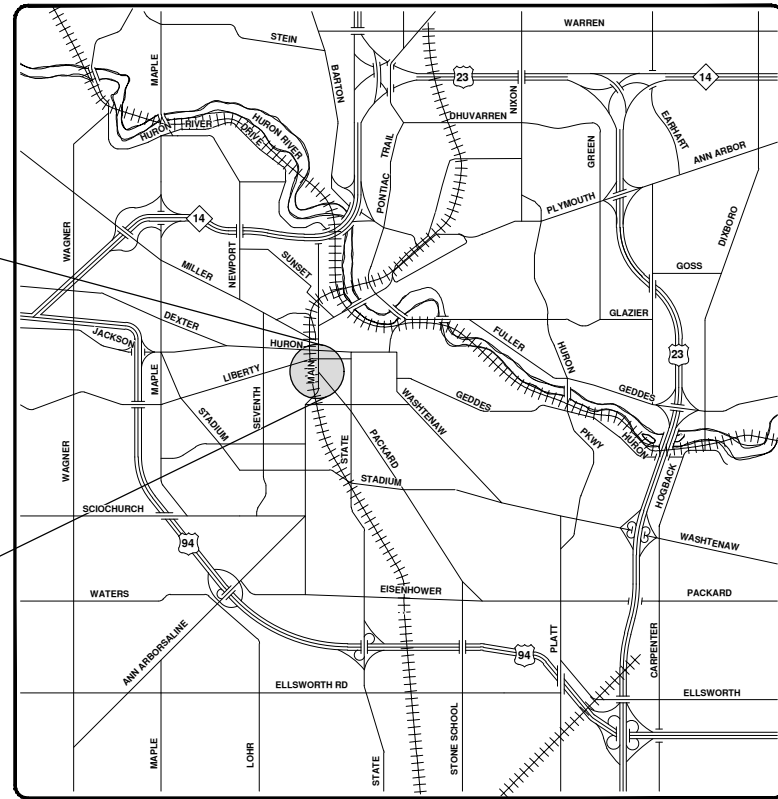
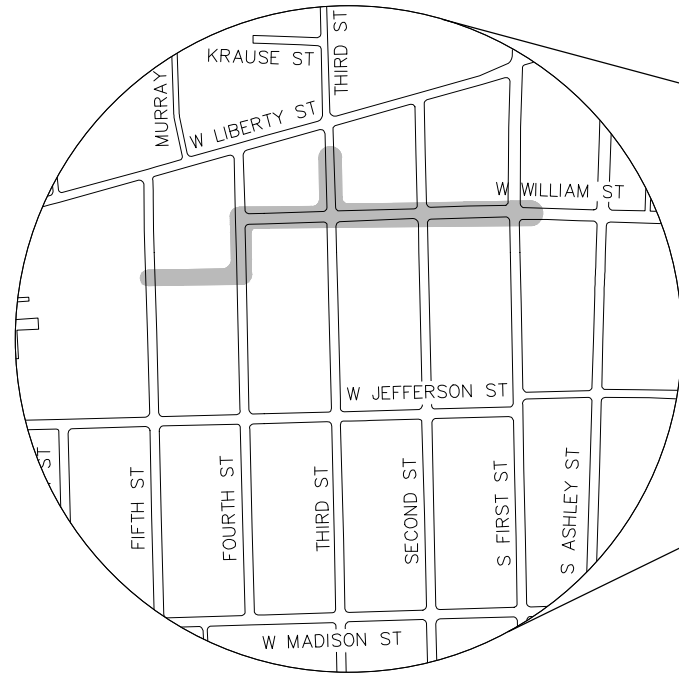
CITY ENGINEER'S OFFICE.  
**ANN ARBOR, MICH.**  
PLAN AND PROFILE  
OF  
SANITARY SEWER  
**S. ASHLEY ST.**  
WILLIAM ST. TO JEFFERSON ST.  
Manley Osgood, City Engineer.  
1917.  
Scale - Plan: 1" = 40' Profile - Hor. 1" = 40' Vert. 1" = 4'





# 2018 SANITARY SEWER LINING

## WILLIAM, FIRST TO FIFTH



VICINITY MAP

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 CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING SCALE _____ DRAWING No. 2017032-11 SHEET No. 11 OF 130		CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MICHIGAN 48107-8647 www.a2gov.org														
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NO.	DESCRIPTION	DATE	BY	CHECKED												
00	BID SET	5-3-18	DPF	DPF												
	REV.															

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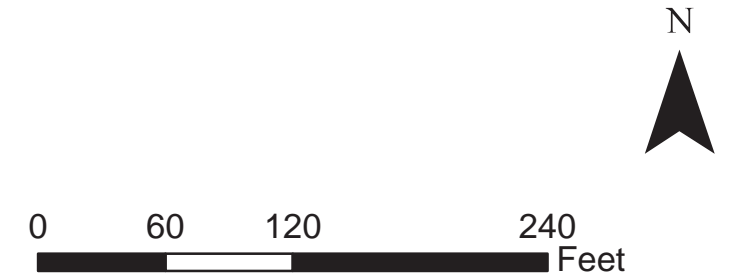


- Legend**
- Proposed Lining
  - Lined Pipe
  - Sanitary Main
  - Manhole
  - Sanitary Lateral, Abandoned
  - Sanitary Lateral
  - ⊗ Sanitary Lateral, Plugged

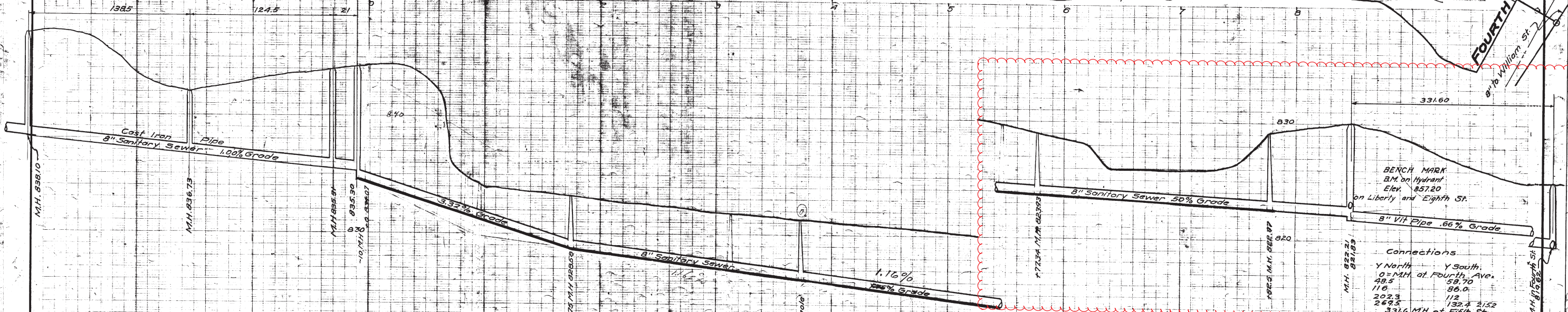
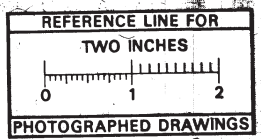
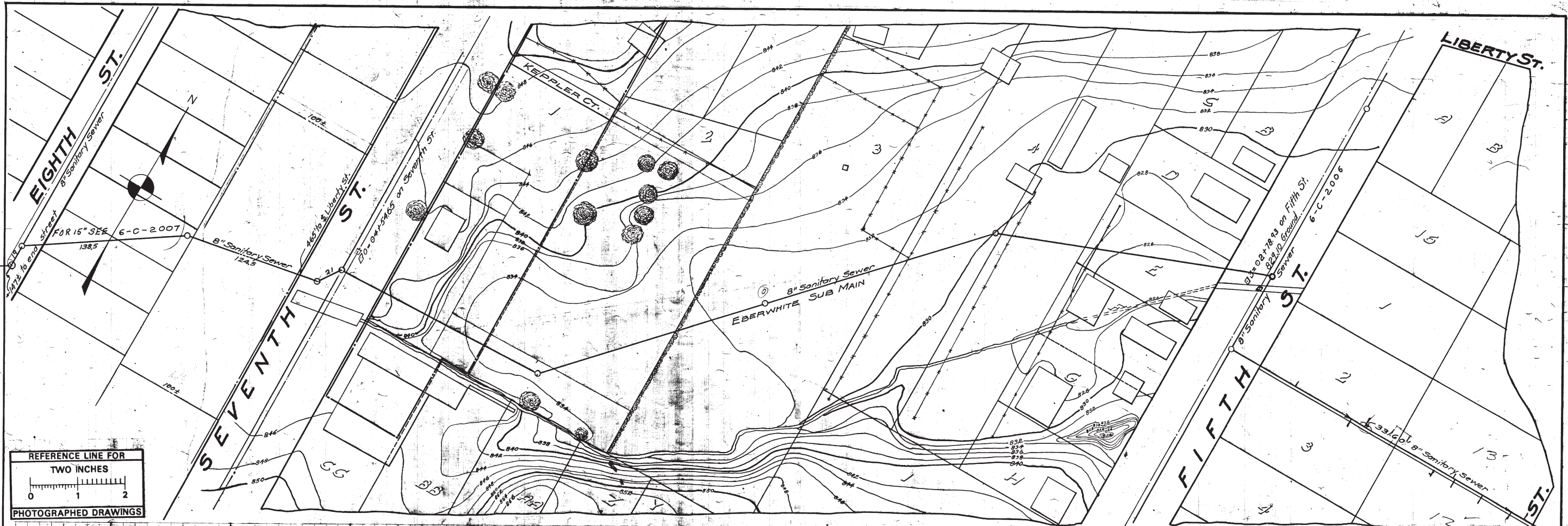
71-70682 (Manhole ID)  
 5.07 (Manhole Depth)

## William, First to Fifth

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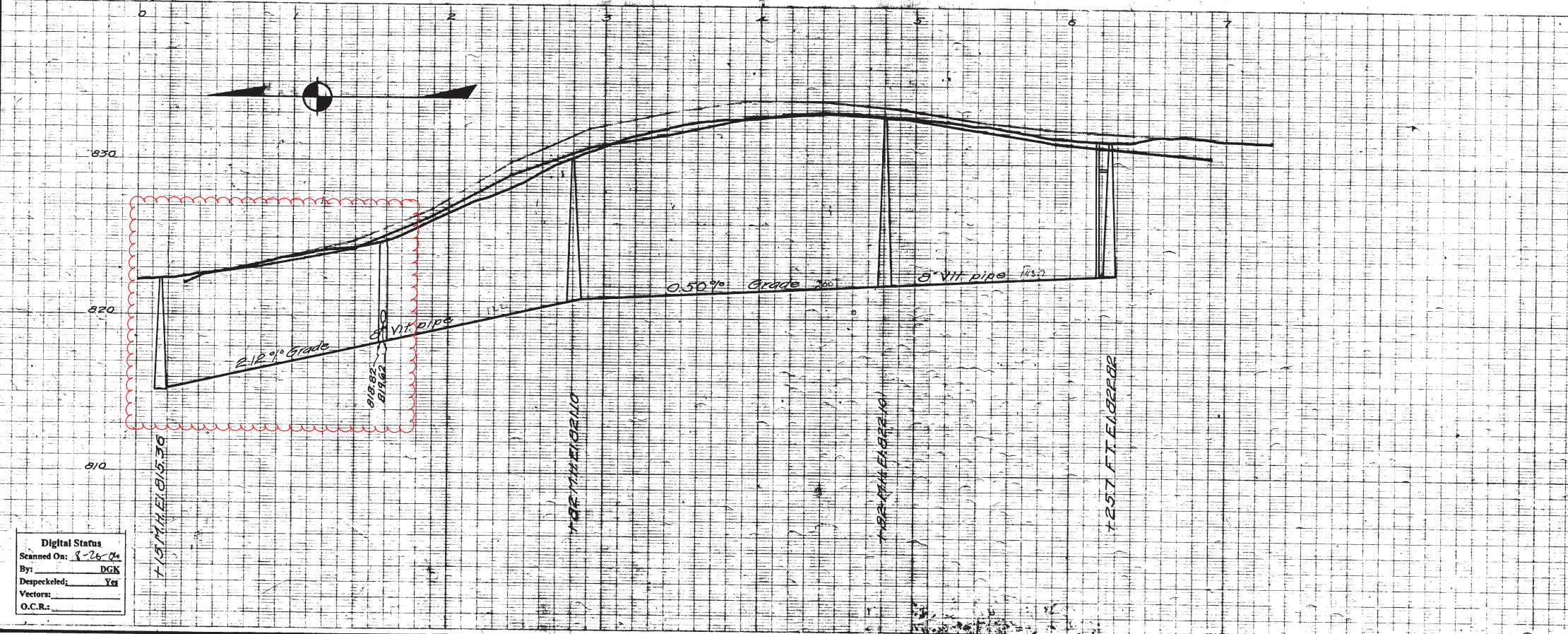
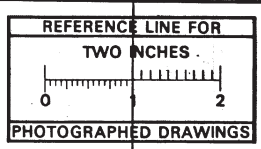
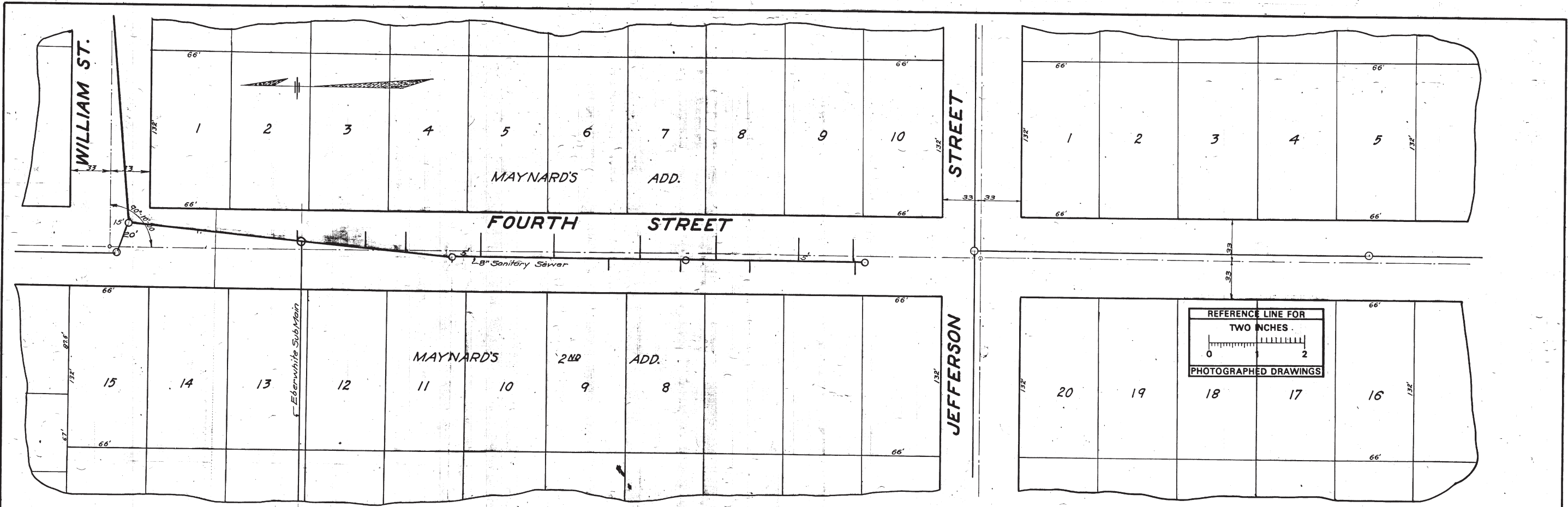
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SHEET No. 1  
 INDEX No. 670  
 SHELF No. 6  
 SIZE C  
 SUB No. 92  
 Drawn by  
 Traced by Dodge  
 Checked by W.C.R.

CITY ENGINEER'S OFFICE  
 ANN ARBOR, MICH.  
 PLAN AND PROFILE  
 OF  
 SANITARY SEWER  
**EBERWHITE SUB MAIN**  
 Fourth St to Eighth St.  
 Manley Osgood, City Engineer  
 1916-5-11  
 Scales Plan 1"=40' Profile 1/4"=40' Vert 1"=4'  
 Two Sheets Sheet No. 2

Corrected to final measurements N.B.R. 1/17/2/14





MEASUREMENTS TO HOUSE CONNECTIONS

0 = M.H. at William St.	EAST	WEST
	141.0	58.0
	198.0	145.0

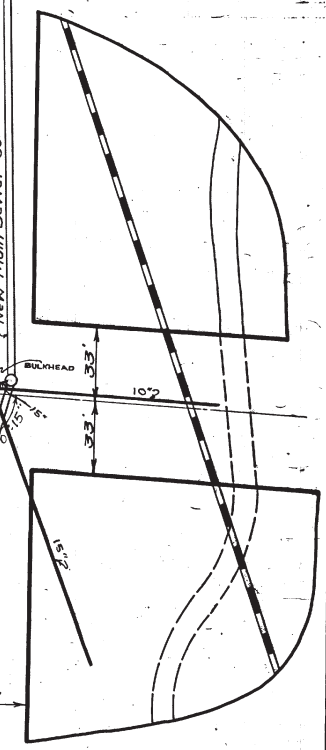
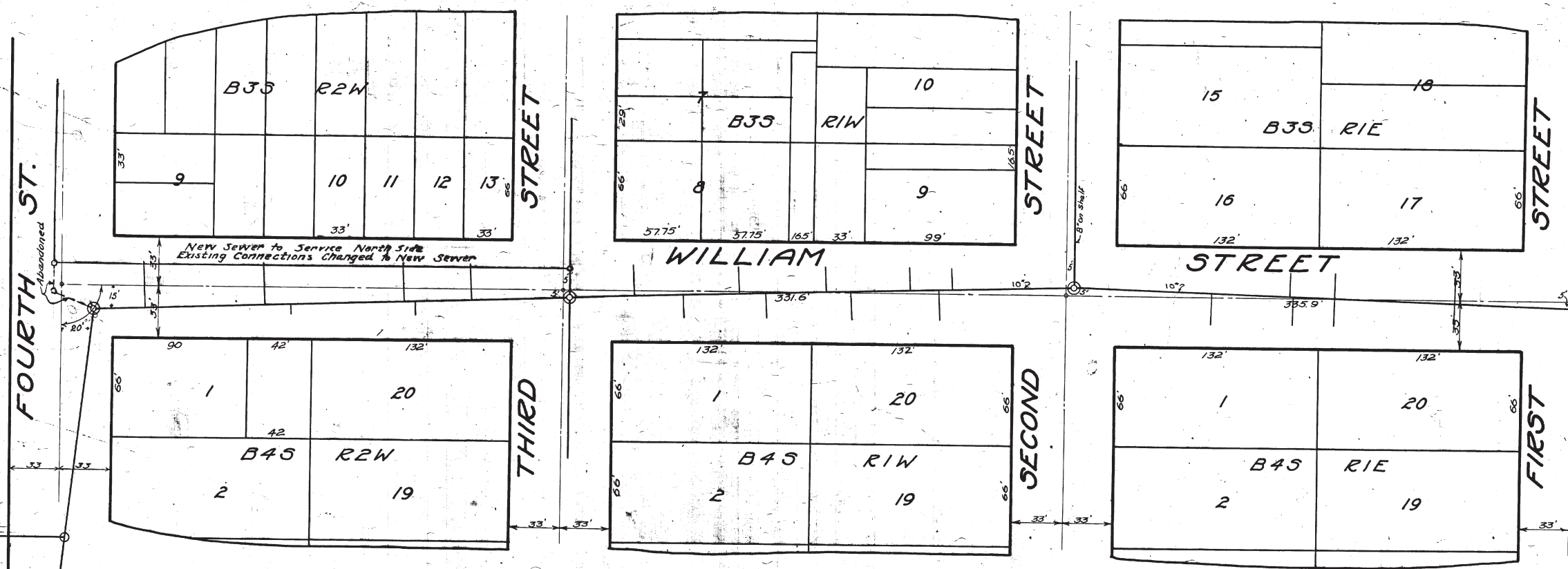
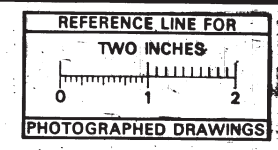
0 = M.H. Opposite Brewery	EAST	WEST
	24.0	130.0
	86.0	193.5
	157.0	249.7
	221.0	329.3
	289.5	
	339.5	

200.0 = M.H.  
343.7 = FT.

Digital Status  
Scanned On: 8-26-06  
By: DGG  
Despeckled: Y  
Vectors: Y  
O.C.R.:

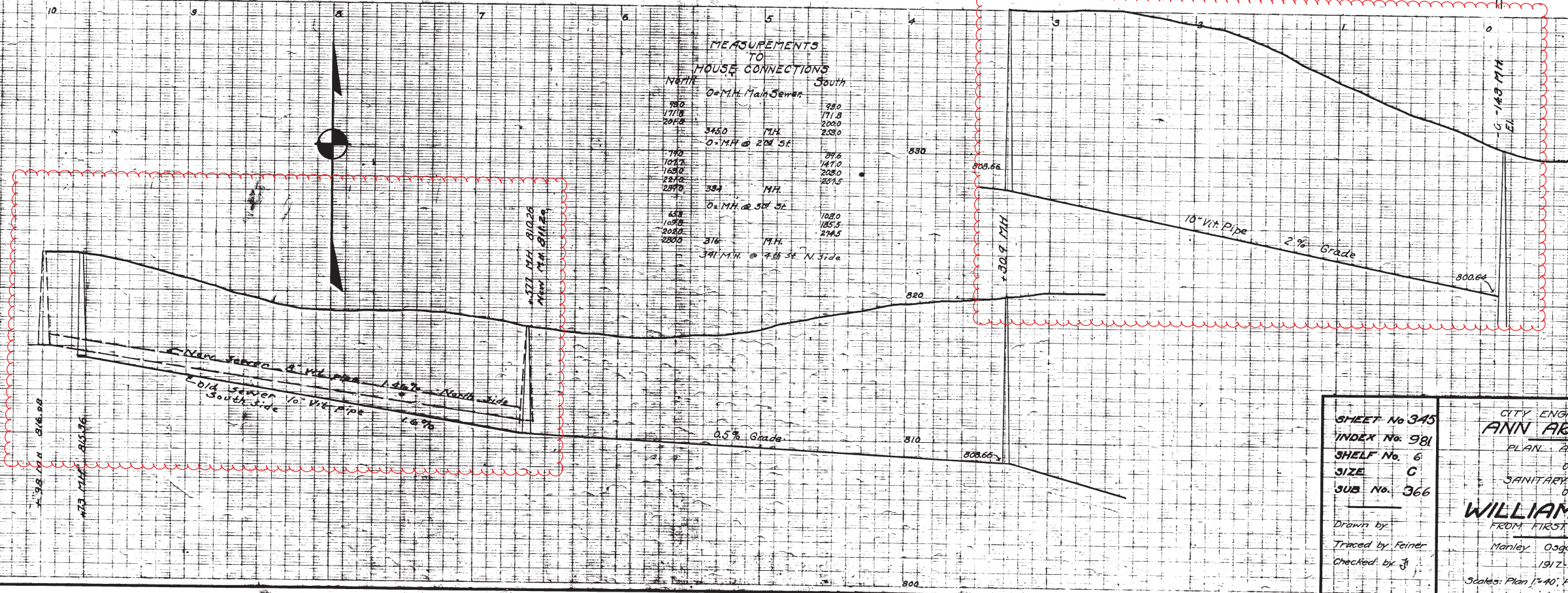
<p>SHEET No. 124 INDEX No. 807 SHELF No. 0 SIZE G SUB No. 192</p> <p>Drawn by G.H.S. Traced by Hill Checked by G.H.S.</p>	<p>CITY ENGINEER'S OFFICE <b>ANN ARBOR, MICH.</b> PLAN AND PROFILE OF SANITARY SEWER <b>FOURTH STREET</b> WILLIAM TO JEFFERSON Manley Osgood, City Engineer. 1917 Scale Plan 1"=40' Profile Hor. 1"=40' Vert. 4"</p>
---	--





MEASUREMENTS TO HOUSE CONNECTIONS

North	South
980	780
1717.8	1717.8
2042	2000
	2530
5450	M.H.
0.14H @ 25' 5"	217.5
	141.0
	2050
	2515
384	M.H.
0.14H @ 57' 5"	1080
	1055.5
	2745
376	M.H.
371' M.H. @ 7' 35" N. Side	

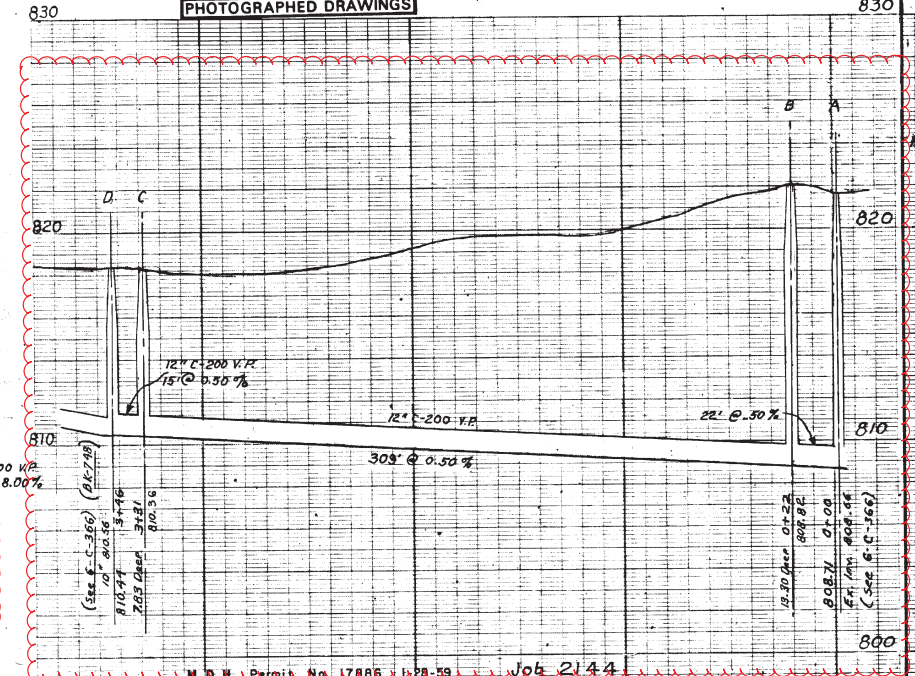
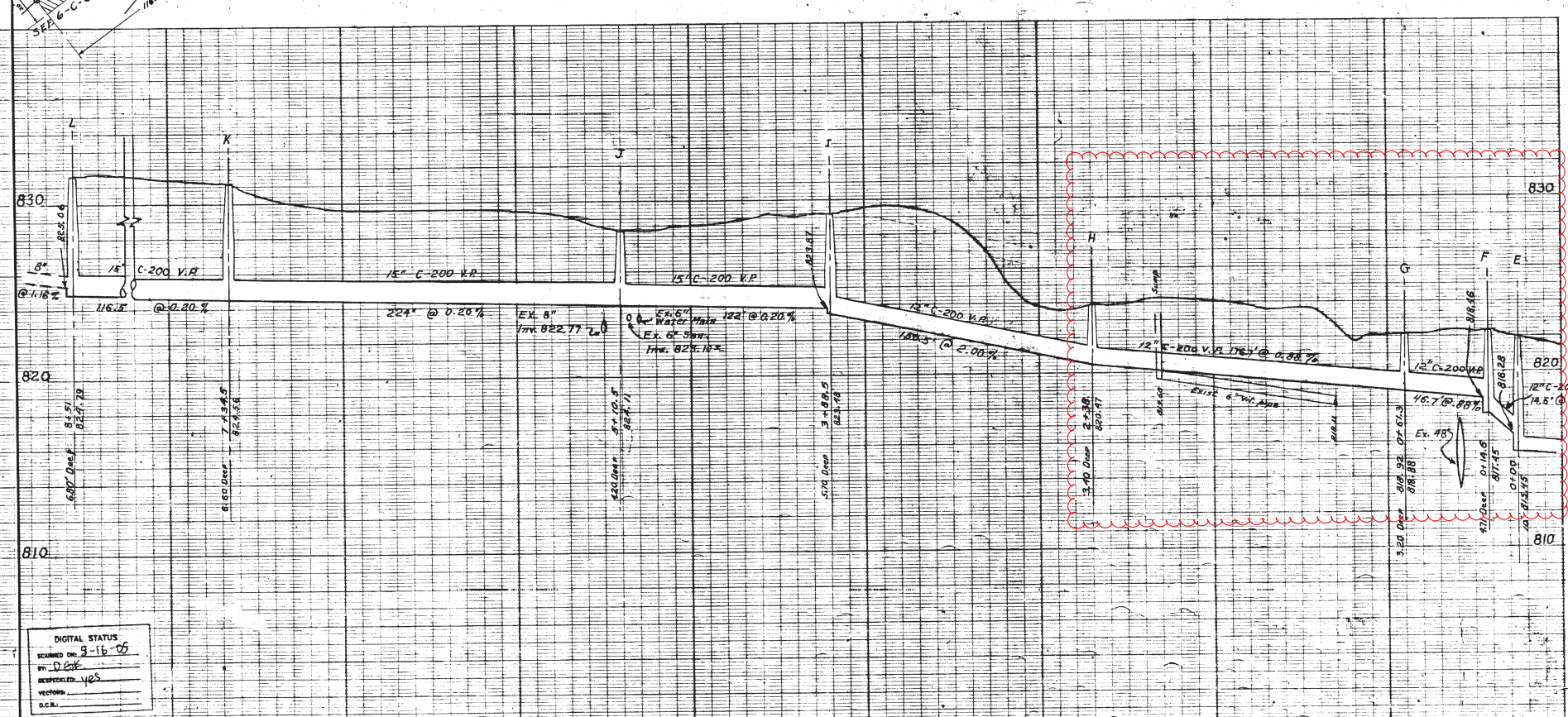
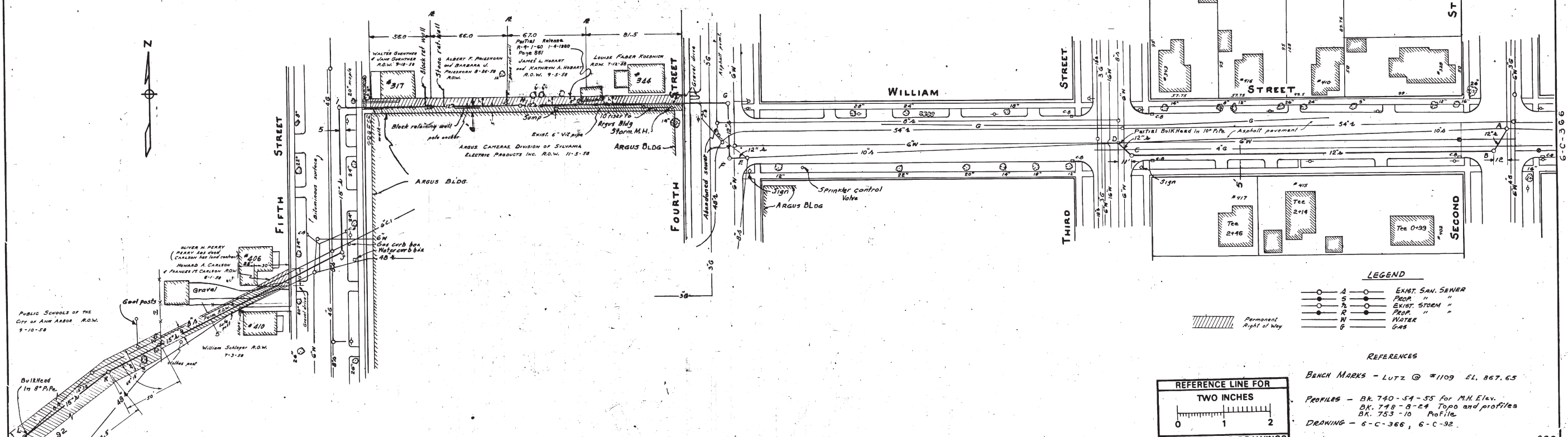


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By: DGK  
Despeckled: Yes  
Vectors:  
O.C.R.:

SHEET No 345  
INDEX No. 981  
SHELF No. 6  
SIZE C  
SUB No. 366  
Drawn by  
Traced by Feiner  
Checked by J

CITY ENGINEER'S OFFICE  
**ANN ARBOR, MICH.**  
PLAN AND PROFILE  
OF  
SANITARY SEWER  
ON  
**WILLIAM STREET**  
FROM FIRST ST. TO FOURTH ST.  
Manley, Osgood, City Engineer  
1912-2-10  
Scale: Plan 1"=40', Profile, Hor. 1"=40', Ver. 1"=4'





DIGITAL STATUS  
 CHECKED ON 9-16-55  
 BY: D.E.F.  
 DESIGNED: H.S.  
 VECTORS:  
 D.C.R.

PREPARED BY McNAMEE, PORTER AND SEELEY  
 CONSULTING ENGINEERS

DATE	12/57	SHEET NO.	3836
DR. BY	R.H. MMQ	INDEX NO.	
TR. BY	MMQ	SHELF NO.	
CH. BY	R.M.B.		
REVISIONS			
G.W.C.	3/59		
BRD.	1-60 SAN.		

**6-C-2006**

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

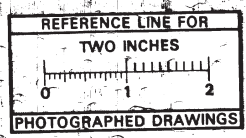
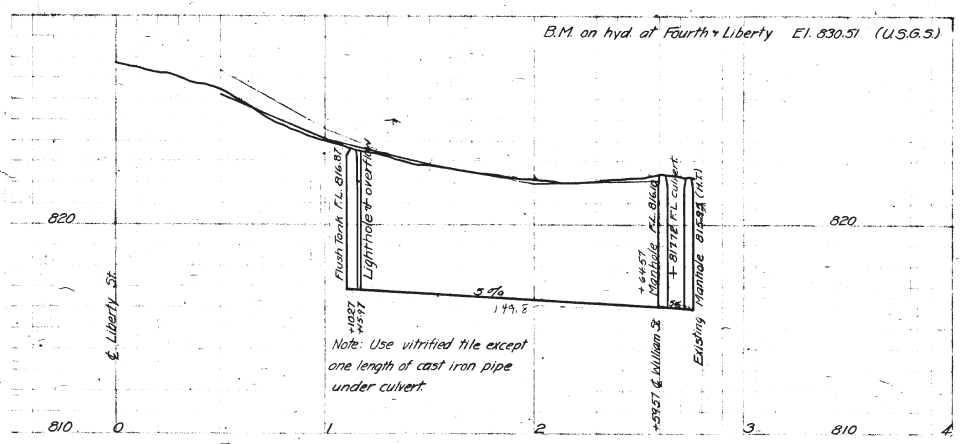
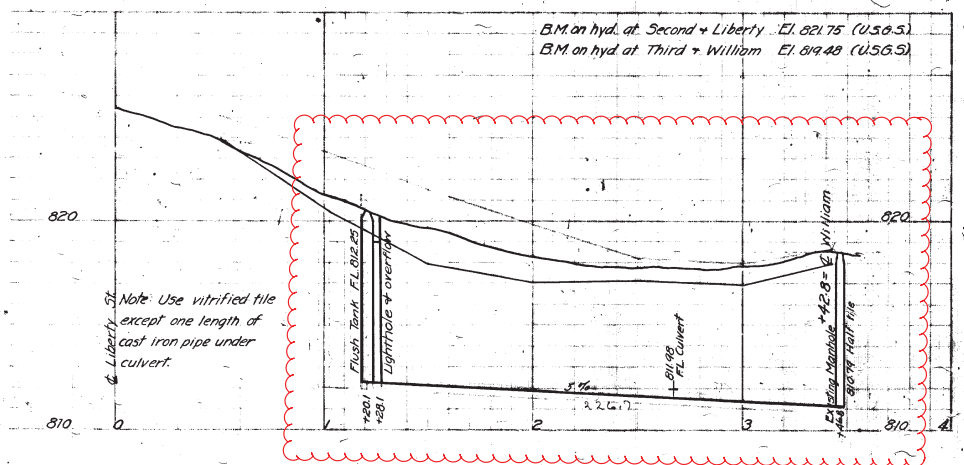
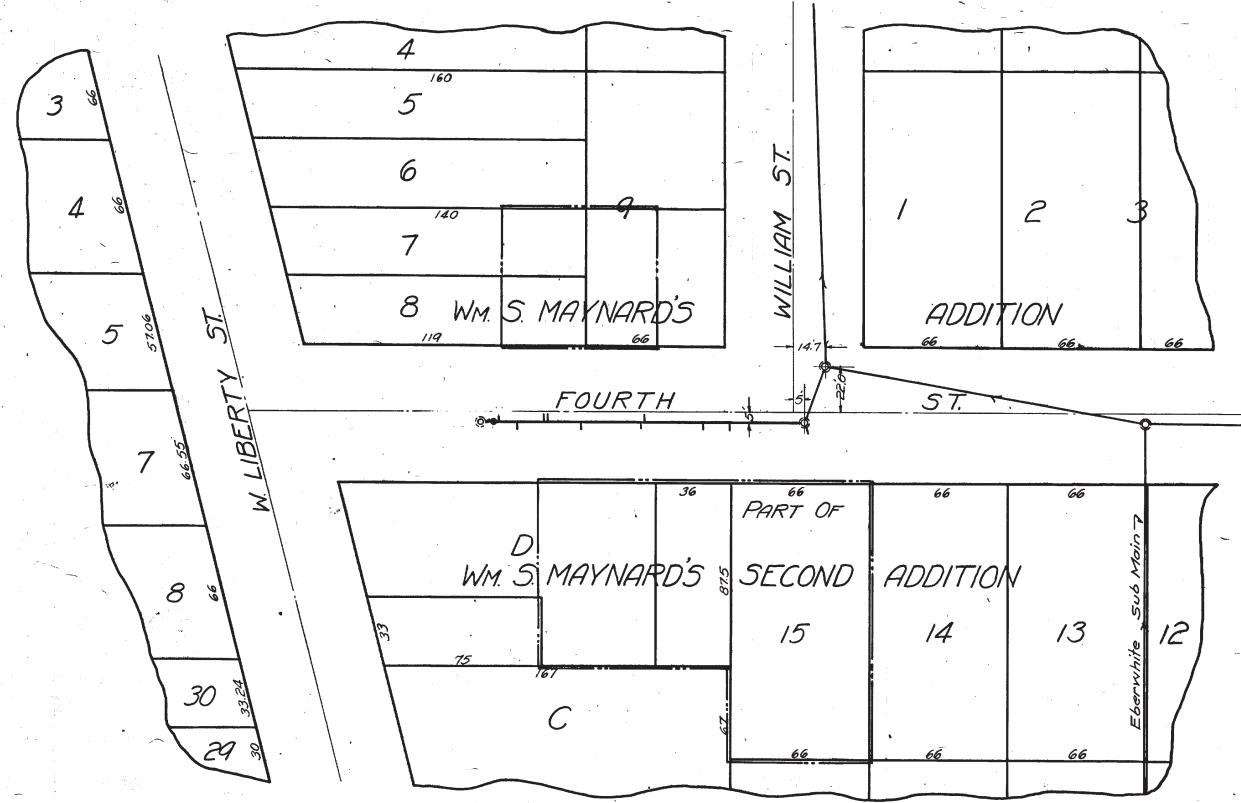
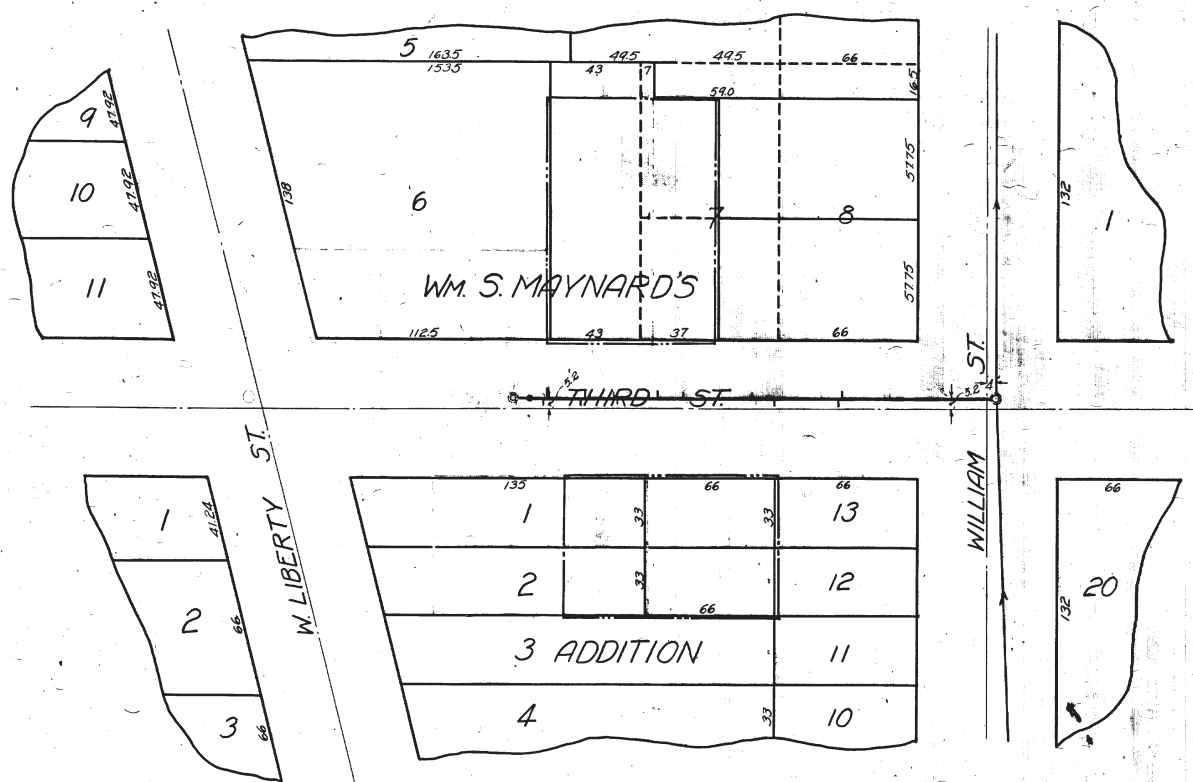
FREDRIC A. MAMMEL  
 SUPERINTENDENT OF PUBLIC WORKS

PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN

EBERWHITE SANITARY SEWER SUB-MAIN  
 RELIEF SEWERS  
 WILLIAM - SECOND ST. TO THIRD ST.  
 CROSS LOTS - WILLIAM AND FOURTH ST.  
 TO WEST OF FIFTH ST.

M.D.M. Permit No. 17866-1-28-59 Job 2144





**LEGEND**  
 Center line of street  
 West sidewalk line  
 East sidewalk line  
 Grade line of sewer  
 District boundary line

**BILL OF MATERIALS**  
 188 lin. ft. of 8" vit. pipe.  
 12 " " of 8" C.I. " "  
 6 " " of 8" vit. pipe in L.H.  
 10 - 8" sanitary Ts.  
 2 - 8" branches.  
 1 light hole cover.  
 1 flush tank.  
 Excavation + Backfilling,  
 10 lin. ft. of 8'-10" depth.  
 216.7 " " of 6'-8" depth.

**FINAL MEASUREMENTS**  
 To House Connections

CONN. W.	CONN. E.
75.6	73.6
106.4	106.4
150.7	160.2
180.8	162.0
198.2	196.2
214.3	214.3
217.7	LAMP HOLE
226.7	FLUSH TANK

**FINAL MEASUREMENTS**  
 To House Connections

CONN. W.	CONN. E.
36.3	76.3
48.3	122.6
70.3	124.6
106.8	147.0
137.3	
148.6	LAMP HOLE
154.3	FLUSH TANK

**BILL OF MATERIALS**  
 150 lin. ft. of 8" vit. tile.  
 6 " " of 8" " " at L.H.  
 12 " " of C.I. pipe.  
 10 sanitary Ts.  
 2-8" branches  
 1-light hole cover.  
 1-flush tank.  
 1-manhole.  
 Excavation + BACKFILLING  
 183.7 lin. ft. of 6'-8" depth.

SHEET No. 123  
 INDEX No. 490  
 SHELF No. 6  
 SIZE C  
 SUB No. 48

Drawn by [Signature]  
 Traced by [Signature]  
 Checked by [Signature]

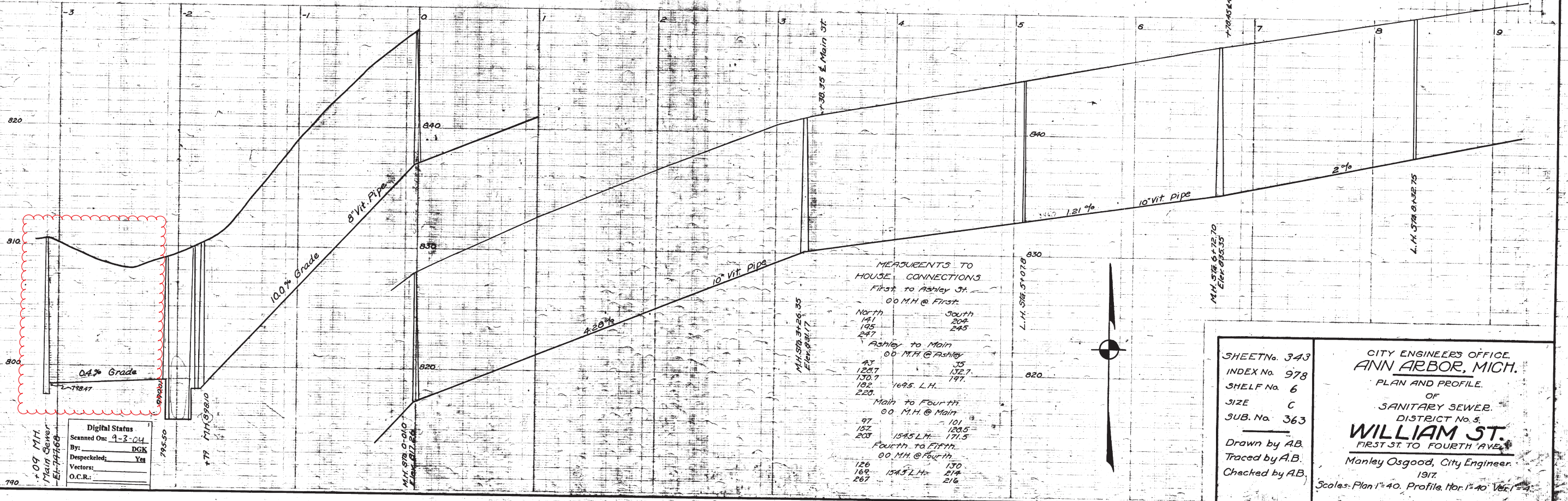
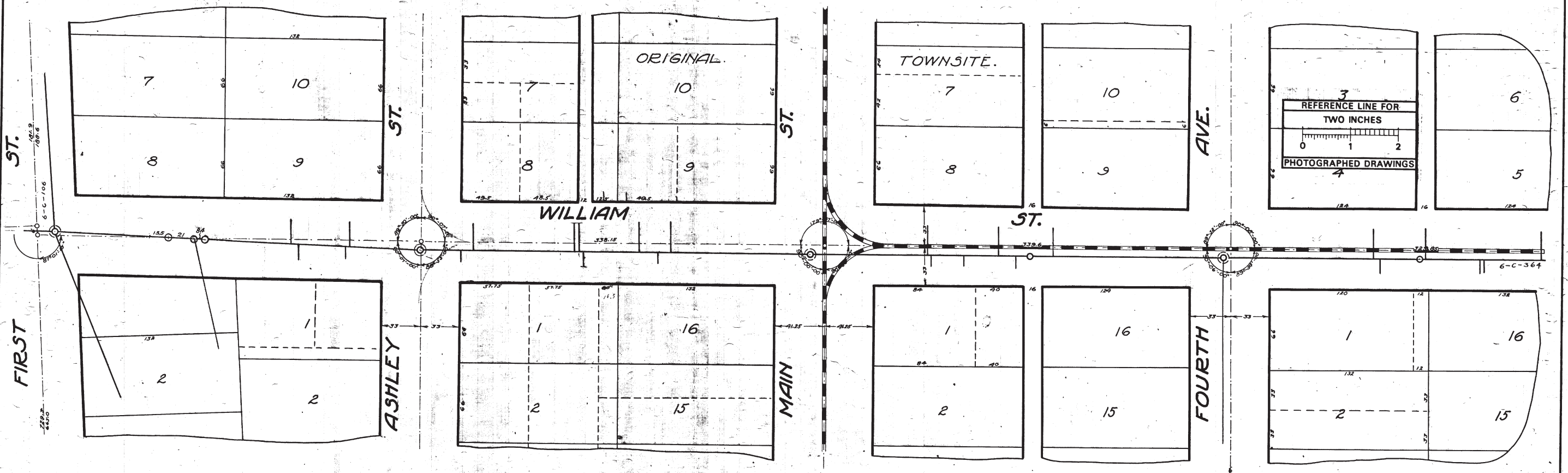
CITY ENGINEER'S OFFICE  
 ANN ARBOR MICH.  
 PLAN AND PROFILE  
 OF  
 SANITARY SEWER  
 DISTRICT No. 64.  
**THIRD & FOURTH STS.**  
 FROM LIBERTY ST. TO WILLIAM ST.  
 Manley Osgood, City Engineer  
 1914-5-25

Scales: Plan 1"=40'; Profile Hor. 1"=40'; Vert. 1"=4'  
 Two Sheets Sheet #1

Digital Status  
 Scanned On: 6-25-04  
 By: DGC  
 Despeckled: Yes  
 Vectors:  
 O.C.R.:

Corrected to final measurements 1914-9-14 by JLB.





SHEET No. 343  
 INDEX No. 978  
 SHELF No. 6  
 SIZE C  
 SUB. No. 363

Drawn by A.B.  
 Traced by A.B.  
 Checked by A.B.

CITY ENGINEER'S OFFICE  
 ANN ARBOR, MICH.  
 PLAN AND PROFILE  
 OF  
 SANITARY SEWER  
 DISTRICT No. 5  
**WILLIAM ST.**  
 FIRST ST. TO FOURTH AVE.  
 Manley Osgood, City Engineer.  
 1917

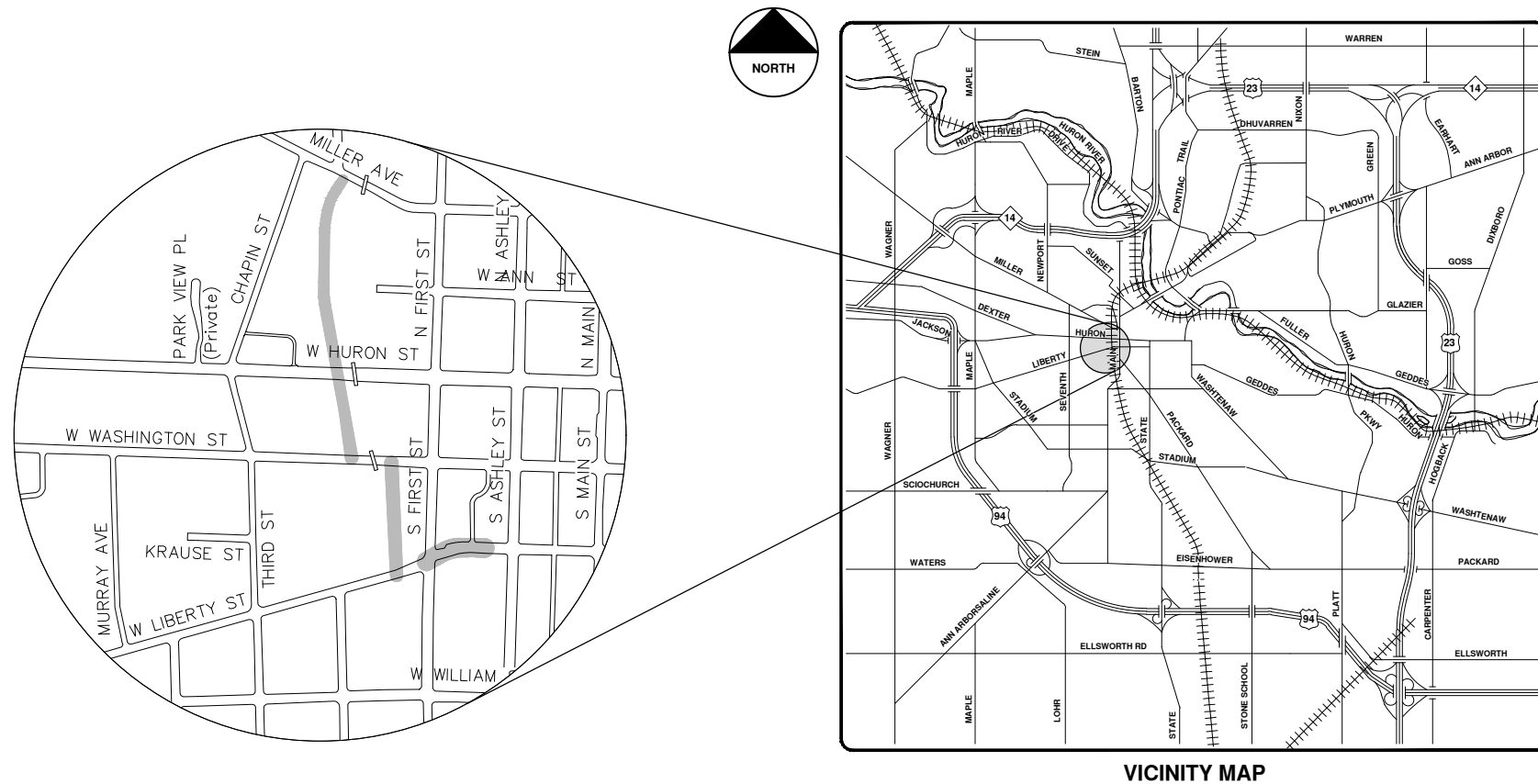
Scales: Plan 1"=40'. Profile 1/4"=40' Ver. 1"=4'





# 2018 SANITARY SEWER LINING

## LIBERTY TO MILLER CROSSELOTS



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg --\_a2 standard bw.stb -- Plot Date: 4/27/2018 9:46:46 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	5-3-18	DPF	IVK

CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48107-8647  
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE  
 DRAWING No.  
 2017032-19

SHEET No.  
 19 OF 130

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See page 2.

See page 3.

See page 4.

**Legend**

- Proposed Lining
- Lined Pipe
- Sanitary Main
- Manhole

71-70682 (Manhole ID)

5.07 (Manhole Depth)

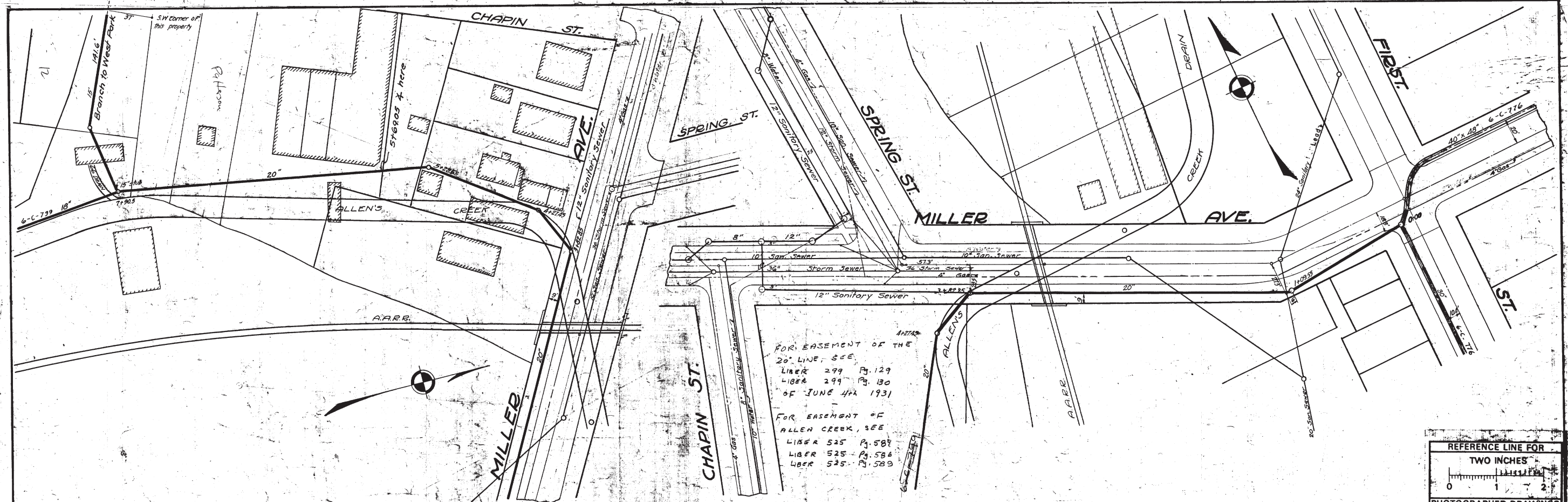
# Liberty to Miller Crosslots



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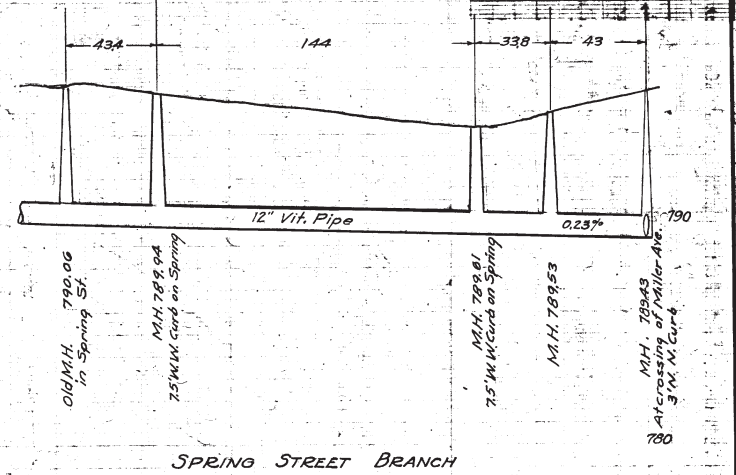
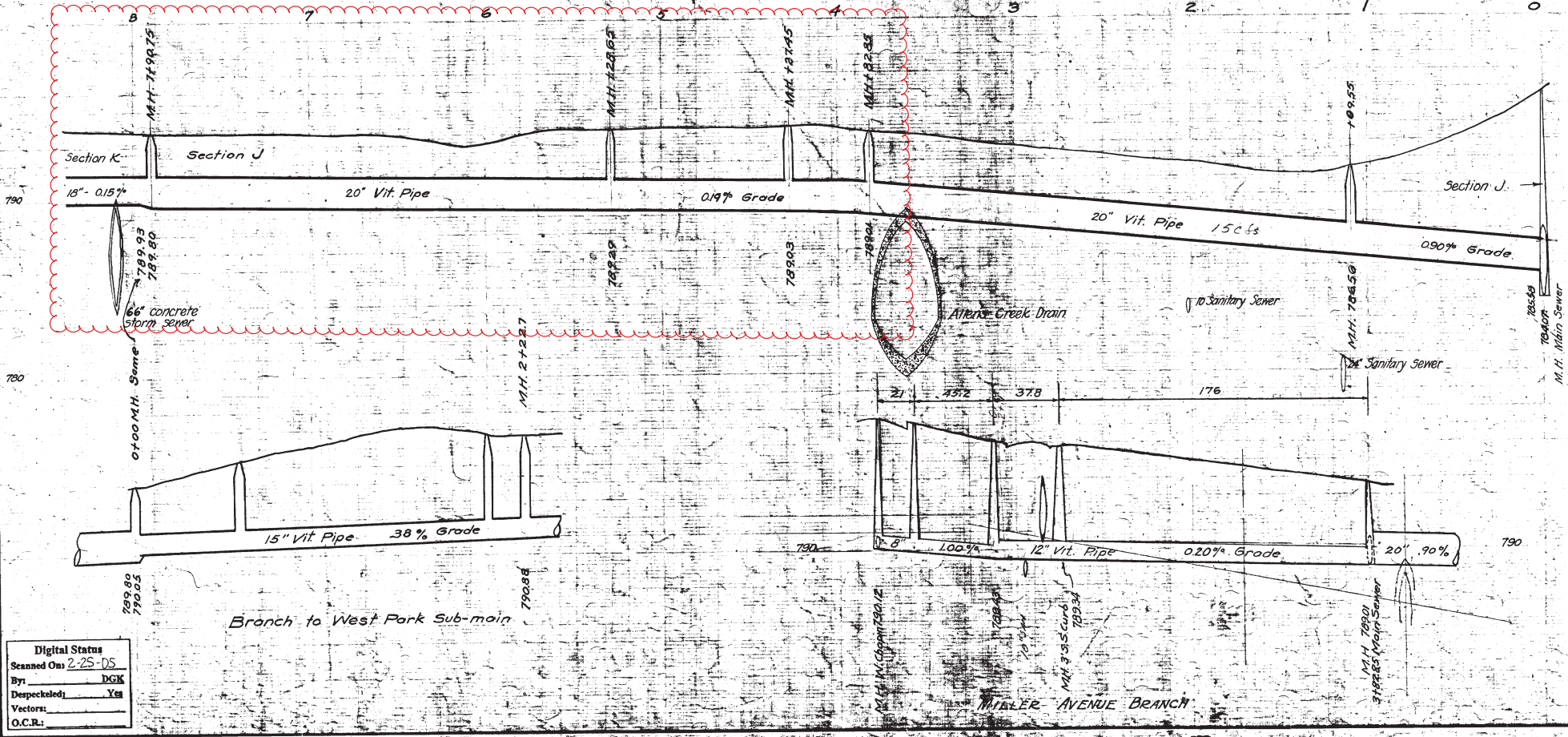
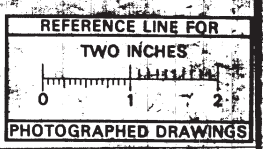






FOR EASEMENT OF THE  
20' LINE, SEE  
LIBER 299 Pg. 129  
LIBER 299 Pg. 130  
OF JUNE 4th 1931

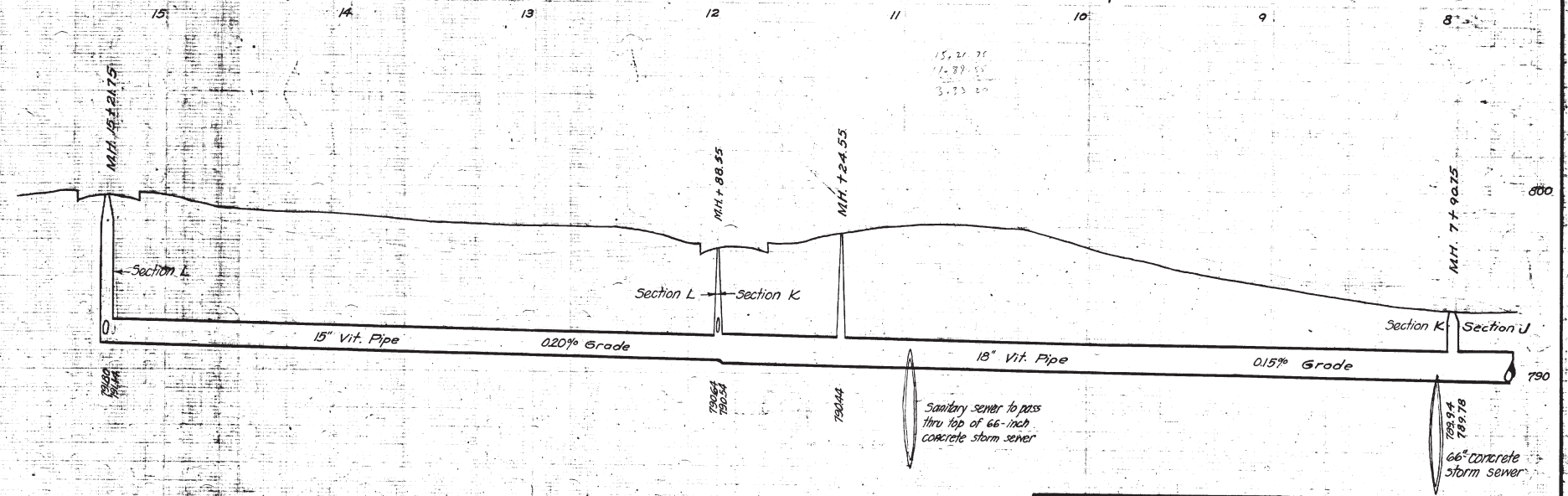
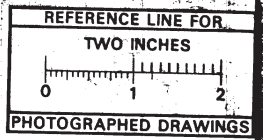
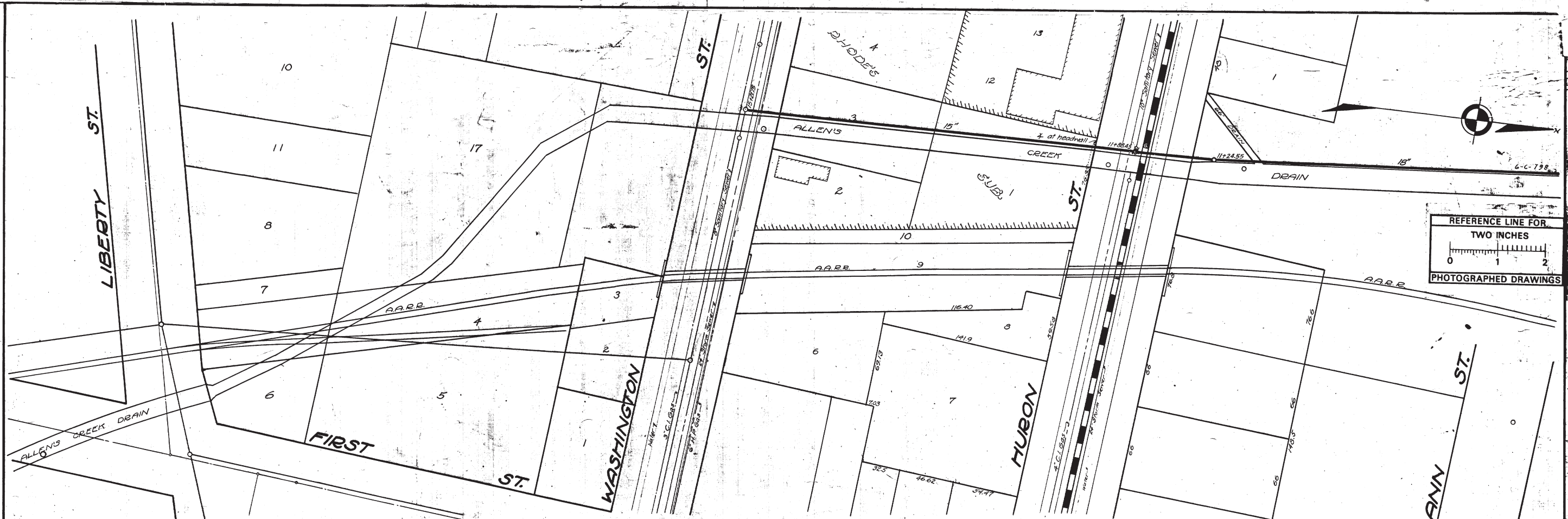
FOR EASEMENT OF  
ALLEN CREEK, SEE  
LIBER 525 Pg. 587  
LIBER 525 Pg. 588  
LIBER 525 Pg. 589



SHEET No. INDEX No. 2035 SHELF No. 6 SIZE C SUB No. 798	REVISIONS 1-30-04 LES
	CITY ENGINEER'S OFFICE ANN ARBOR, MICH.
	PLAN AND PROFILE OF
	<b>MAIN TRUNK SANITARY SEWER</b> WEST SIDE INTERCEPTOR ANN TO MILLER TO FIRST
DRAWN BY TRACED BY KAD CHECKED BY	Geo. H. Sandenburgh City Engineer 1926-12-13
Scales: Plan Hor. 1"=40' Prof. Vert. 1"=4'	

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

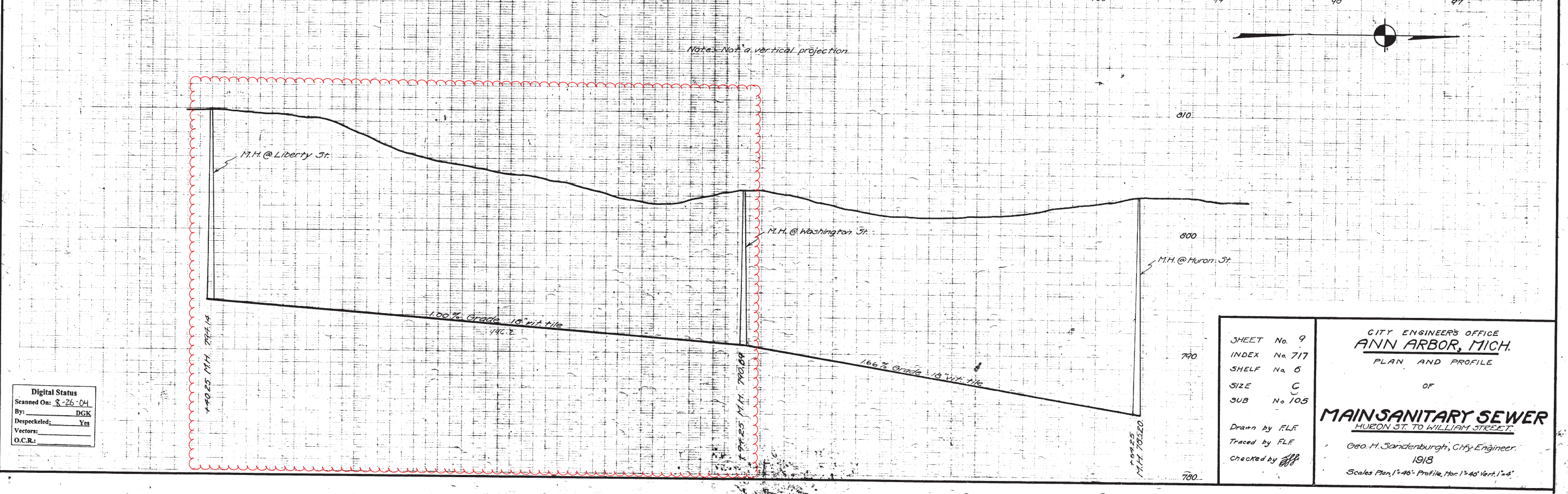
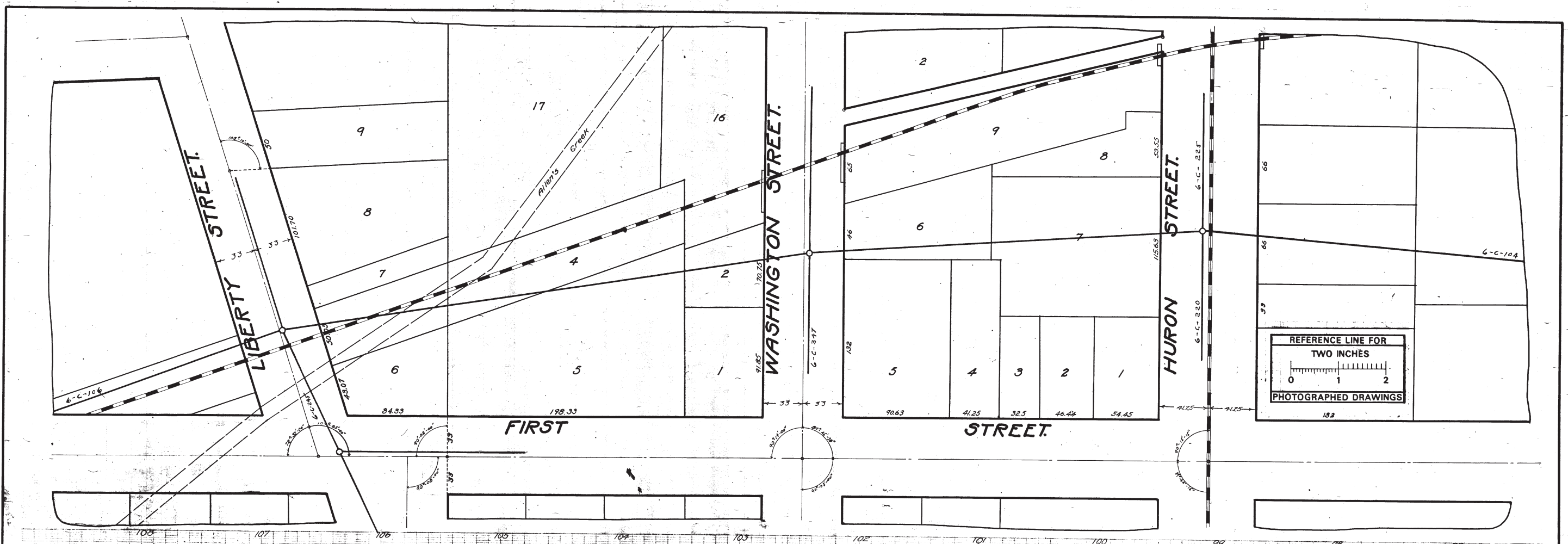




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SHEET No. INDEX No. 2036 SHELF No. 6 SIZE C SUB. No. 799 DRAWN BY TRACED BY IND CHECKED BY	CITY ENGINEER'S OFFICE <b>ANN ARBOR, MICH.</b> PLAN AND PROFILE OF <b>MAIN TRUNK          SANITARY SEWER</b> WEST SIDE INTERCEPTOR LIBERTY TO ANN Geo. H. Sandenburgh City Engineer 1926-12-18 Scales: Plan Hor. 1"=40' Prof. Vert. 1"=4'
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Digital Status  
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 Vectors:  
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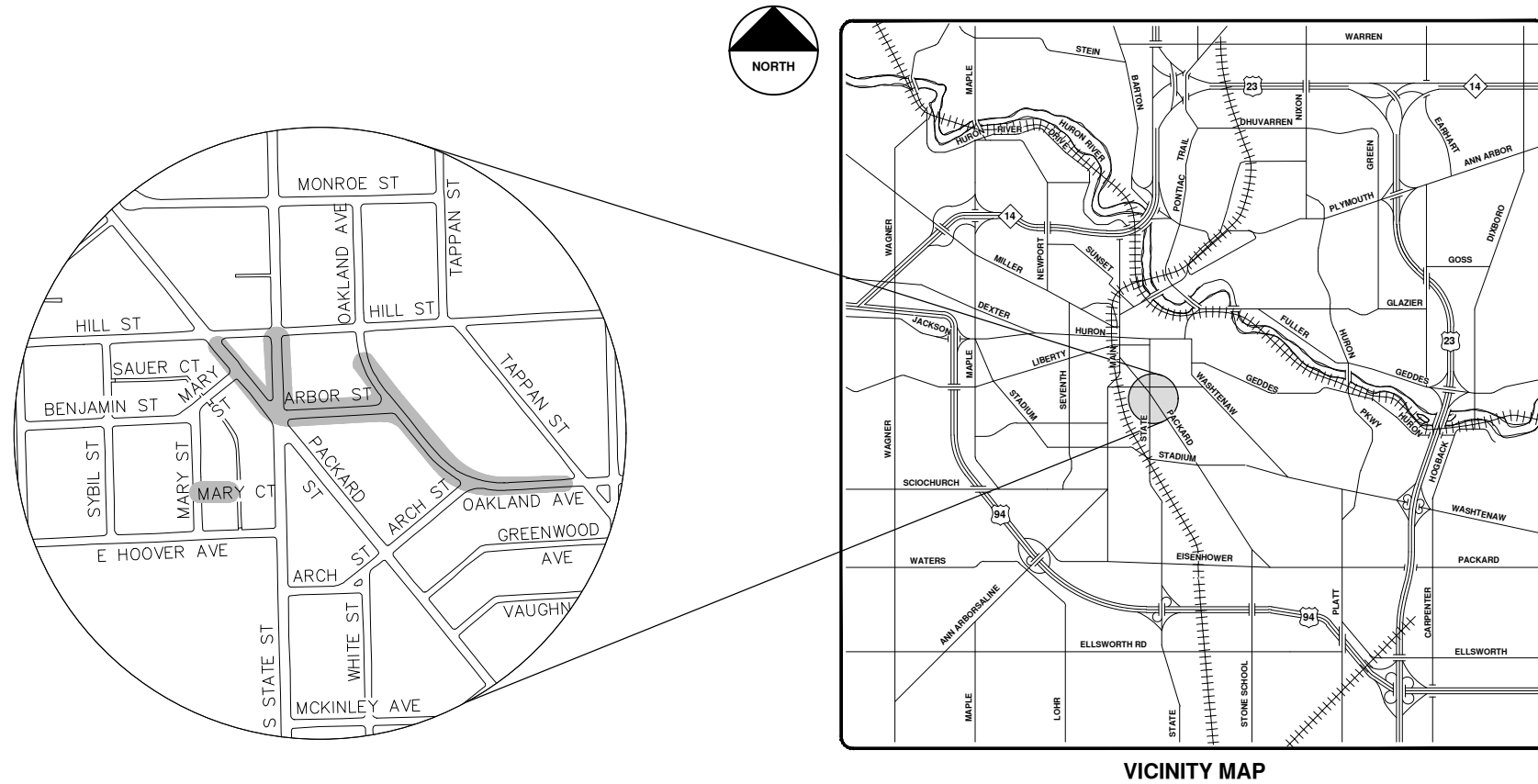
SHEET No. 9  
 INDEX No. 717  
 SHELF No. 6  
 SIZE C  
 SUB No. 105  
 Drawn by FLE  
 Traced by FLE  
 Checked by

CITY ENGINEER'S OFFICE  
**ANN ARBOR, MICH.**  
 PLAN AND PROFILE  
 OF  
**MAIN SANITARY SEWER**  
 HURON ST. TO WILLIAM STREET.  
 Geo. H. Sandenburgh, City Engineer.  
 1918  
 Scales Plan, 1"=40' Profile, 1"=40' Vert. 1"=4'



# 2018 SANITARY SEWER LINING

## STATE & PACKARD, OAKLAND, MARY CT



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg --\_a2 standard bw.stb -- Plot Date: 4/27/2018 9:46:47 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  
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 ANN ARBOR, MI 48107-8647  
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE  
 DRAWING No.  
 2017032-24

SHEET No.

24 OF 130

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	5-3-18	DPF	IVK

© 2018 SANITARY SEWER LINING; LOCATION: STATE & PACKARD, OAKLAND, MARY CT; 2017032





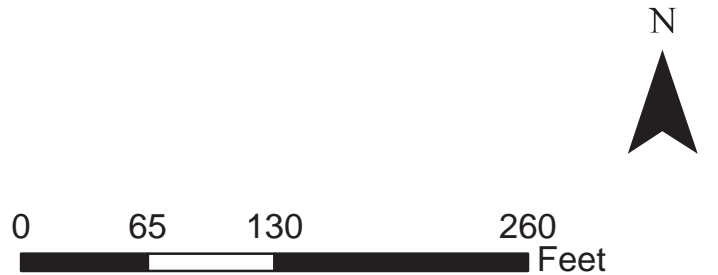


- Legend**
- Proposed Lining
  - Lined Pipe
  - Sanitary Main
  - Manhole
  - Sanitary Lateral, Abandoned
  - Sanitary Lateral
  - ⊗— Sanitary Lateral, Plugged

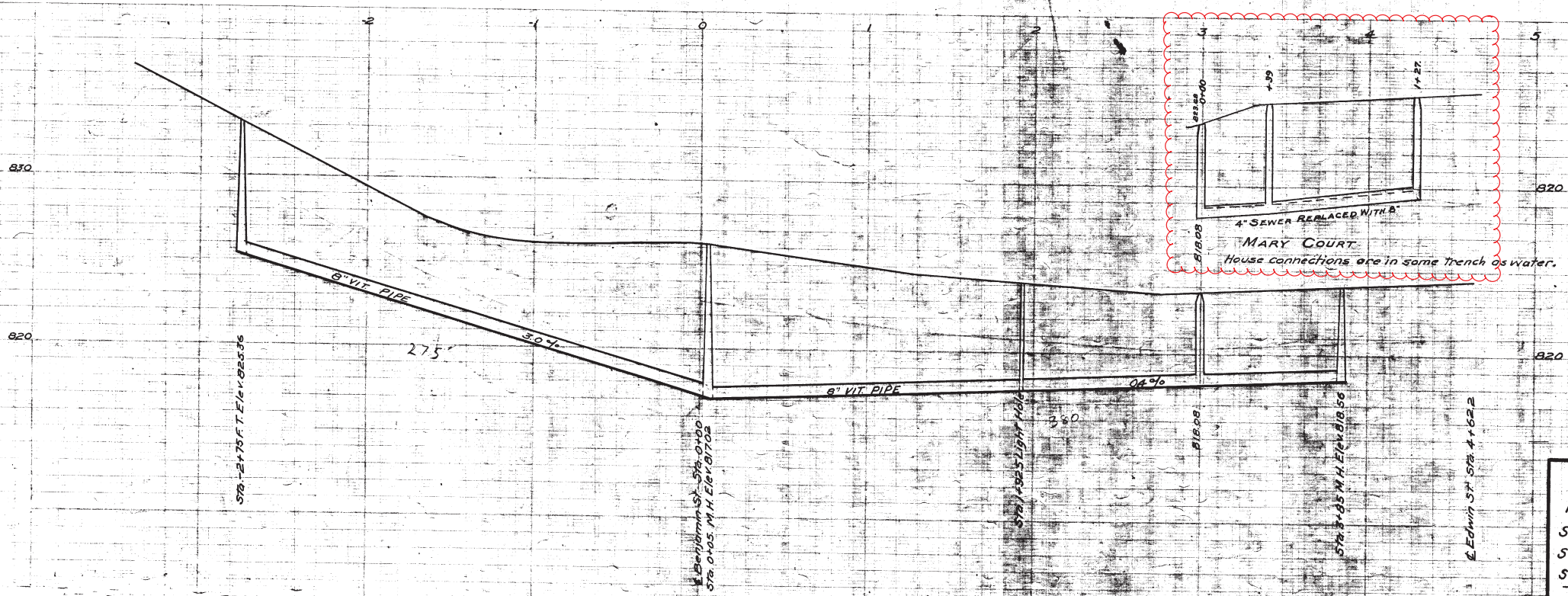
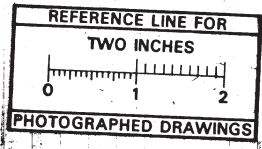
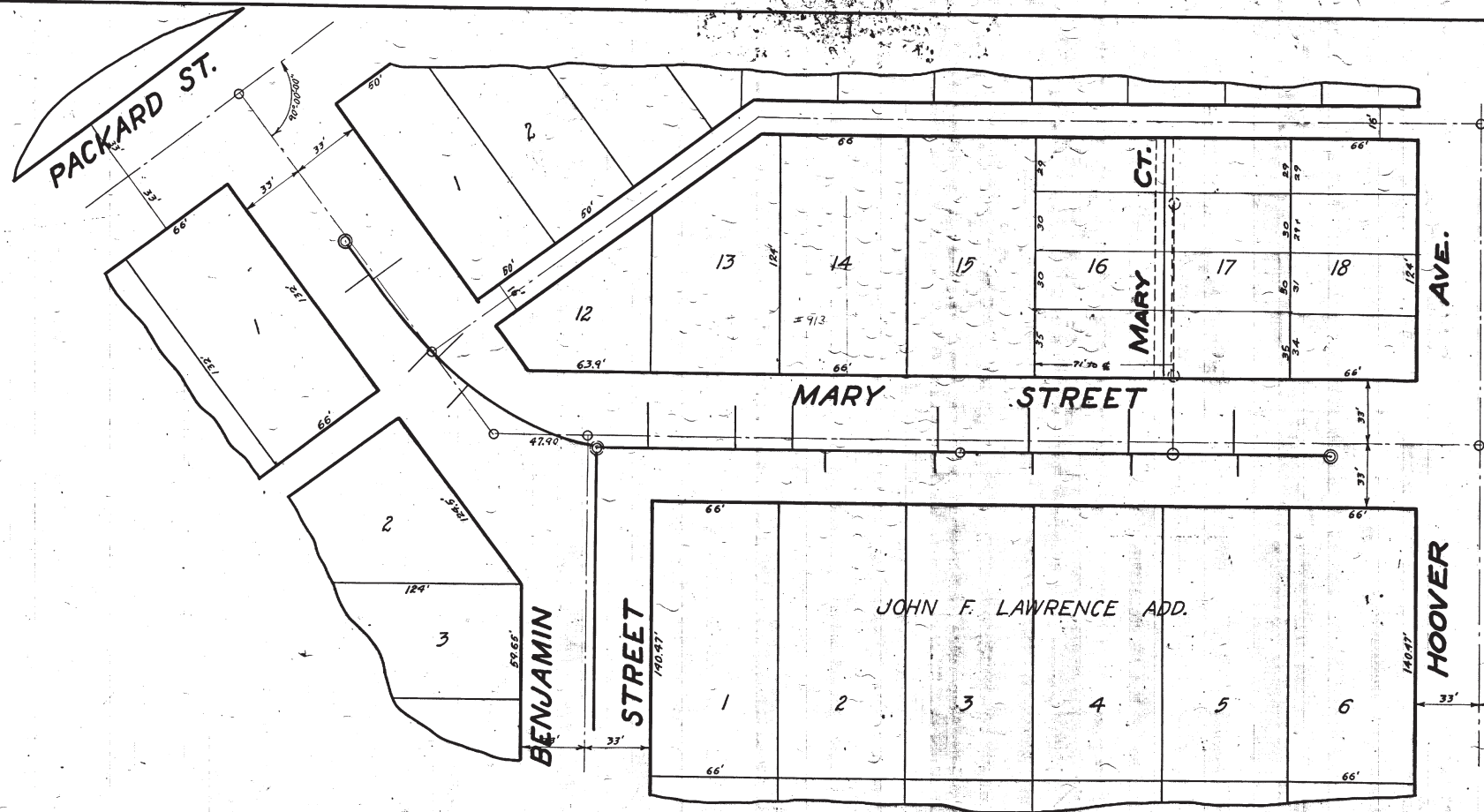
71-70682 (Manhole ID)  
 5.07 (Manhole Depth)

## State & Packard / Oakland / Mary Ct

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MEASUREMENTS TO HOUSE CONNECTIONS

WEST	SOUTH RUN	EAST
118.8	M.H. @	26.5
179.8	BENJAMIN-80	71.5
225.0	BENJAMIN-80	101.0
276.1	L.H. @ 1875	176.7
331.0		223.0
		274.0
		329.4

NE RUN	M.H. @	EAST
72.8	M.H. @	93.3
97.4	BENJAMIN-80	144.5
149.6		

Connections run to Curb.

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

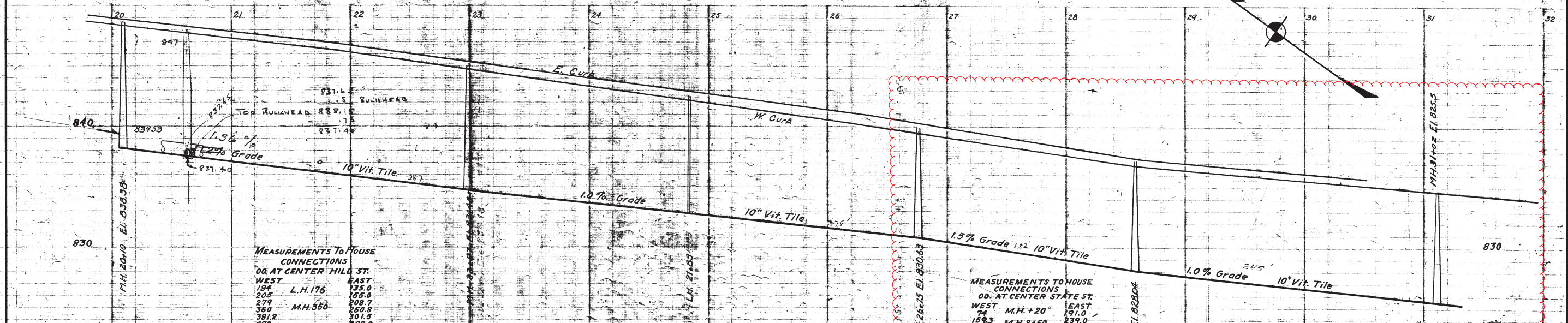
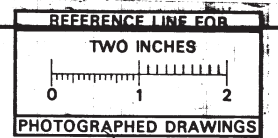
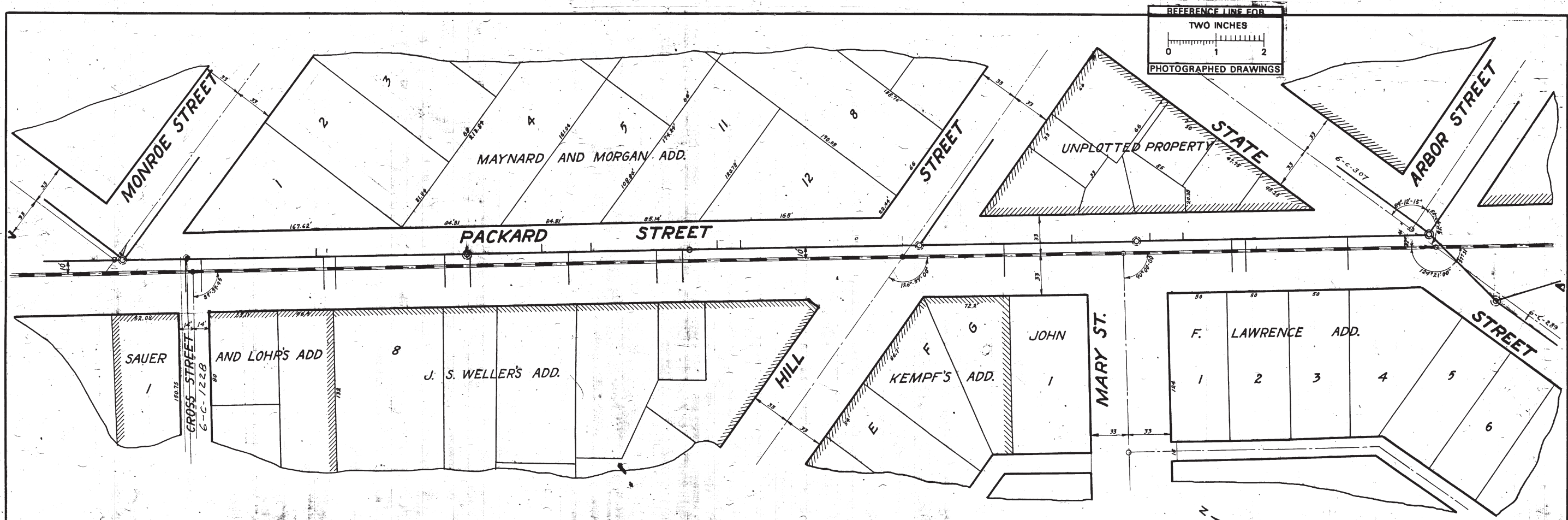
SHEET No 213  
INDEX No. 882  
SHELF No. 6  
SIZE C  
SUB No. 266

Drawn by  
Traced by Hill  
Checked by G.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'

Digital Status  
Scanned On: 8-31-04  
By: DGK  
Despeckled: Yes  
Vectors:  
O.C.R.:





MEASUREMENTS TO HOUSE CONNECTIONS  
00. AT CENTER HILL ST.

WEST	EAST
184 L.H. 176	135.0
205	155.0
279 M.H. 350	209.7
360	260.9
381.2	301.8
472	488.2
482	
585.6	
597.0	M.H. 650

MEASUREMENTS TO HOUSE CONNECTIONS  
00. AT CENTER STATE ST.

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

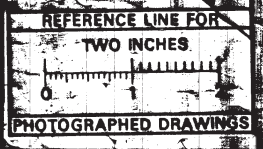
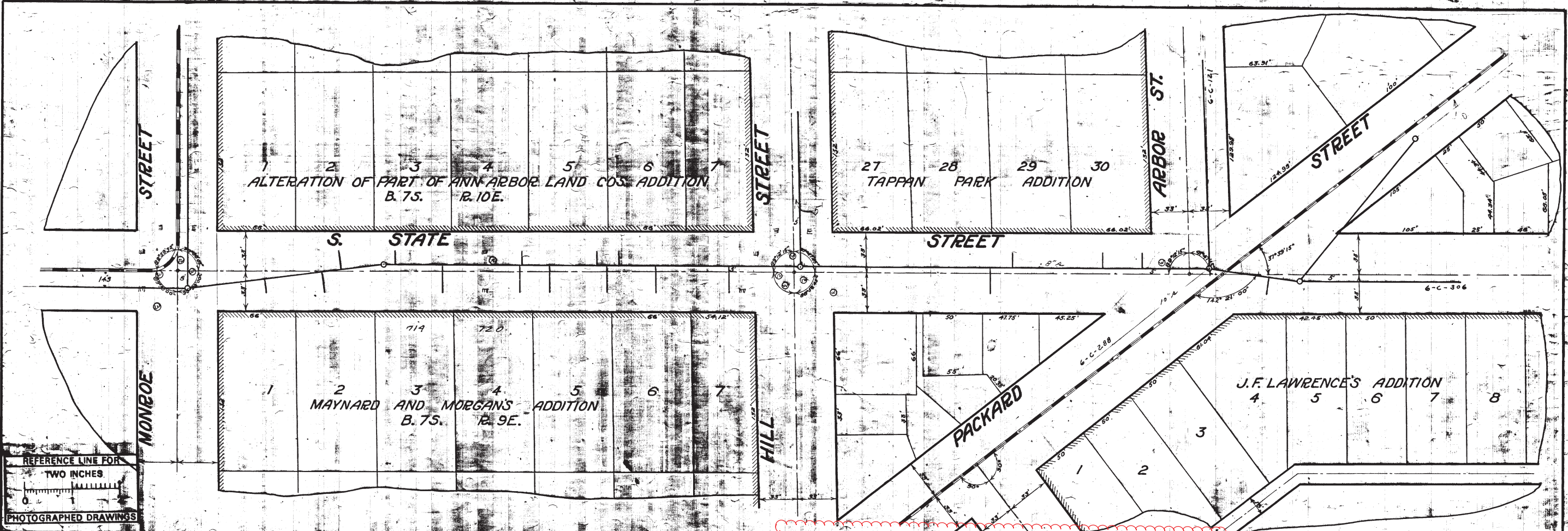
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Vectors:  
O.C.R.:

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

CITY ENGINEER'S OFFICE  
ANN ARBOR MICH.  
PLAN AND PROFILE  
OF  
SANITARY SEWER  
**PACKARD STREET**  
MONROE TO STATE  
Manley Osgood City Engineer.  
1917  
Scales - Plan 1" = 40' Profile - Hor. 1" = 4'

Drawn by  
Traced by T.C.H.H.  
Checked by

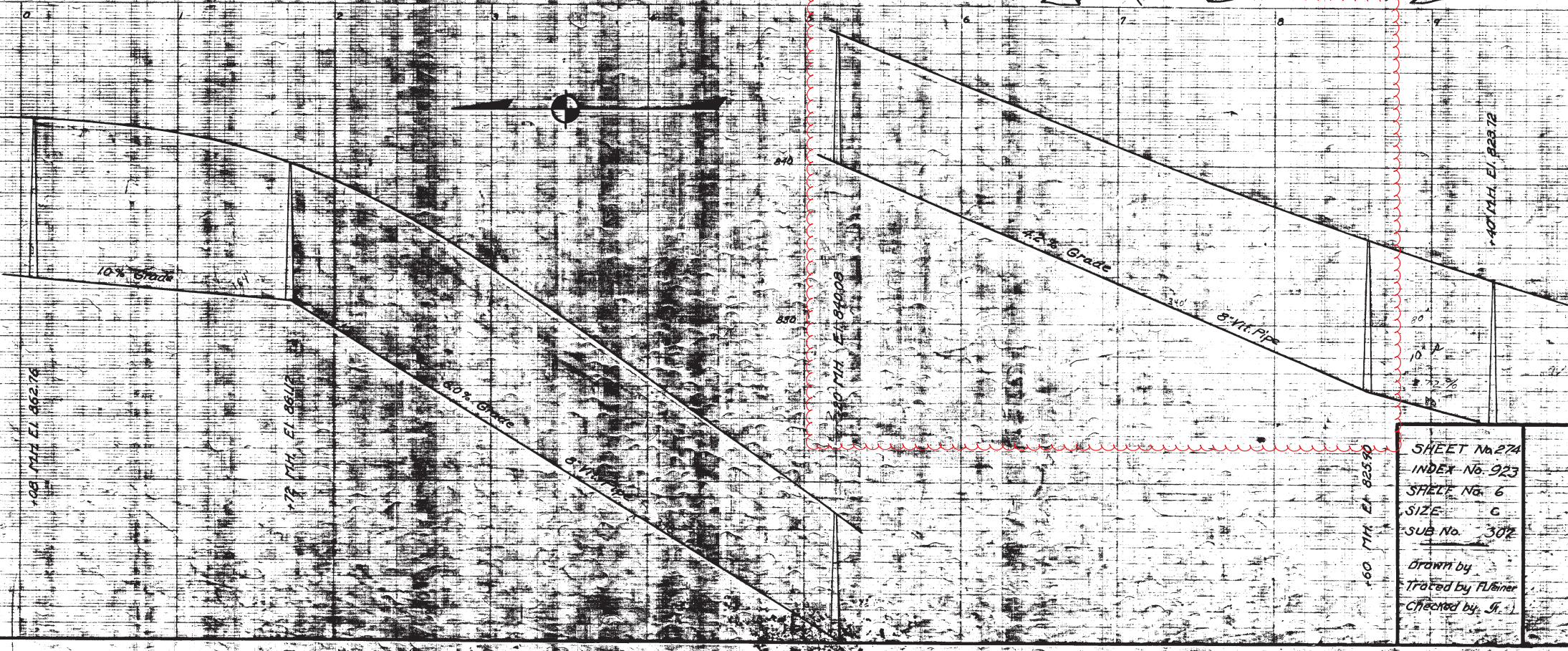




MEASUREMENTS TO HOUSE CONNECTIONS

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

East	West
Packard to Hill St.	260
Sta. 0 = Monument at State and Packard St.	
670	1490
1000	1568 = L.H.
1750	
Hill to Monroe St.	
1460	Sta. 0 = Monument
1887	Sta. 0 = F.H.
2270	1366
3350	1882 = L.H.
3740	2240
	2440
	3450
	4430

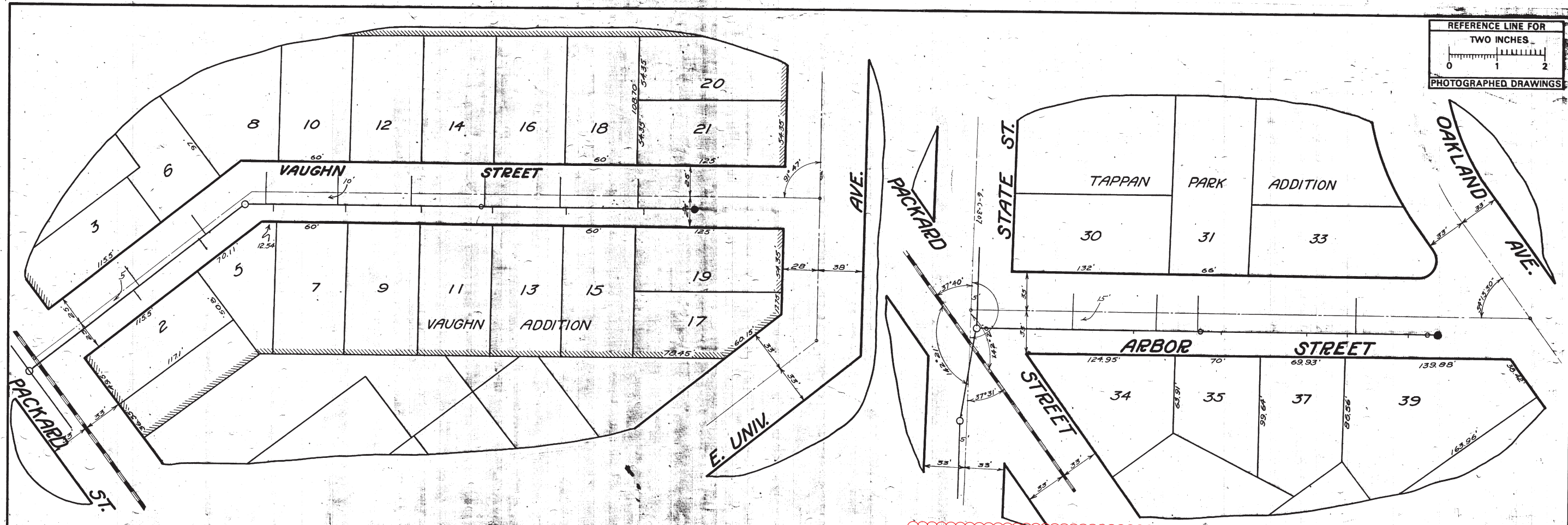
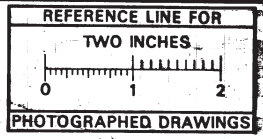


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INDEX No. 923  
SHEET No. 6  
SIZE C  
SUB No. 302  
DRAWN by  
CHECKED by J.S.

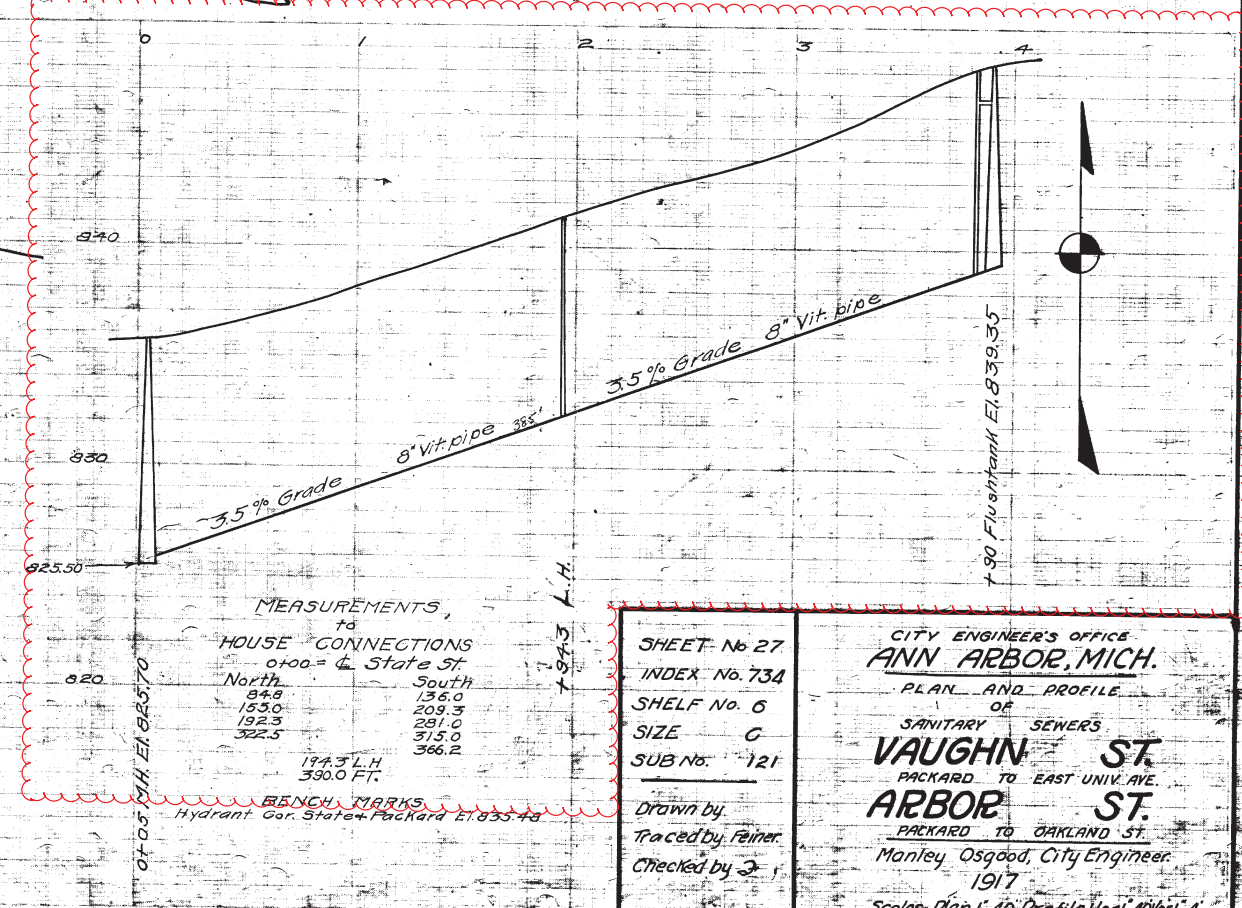
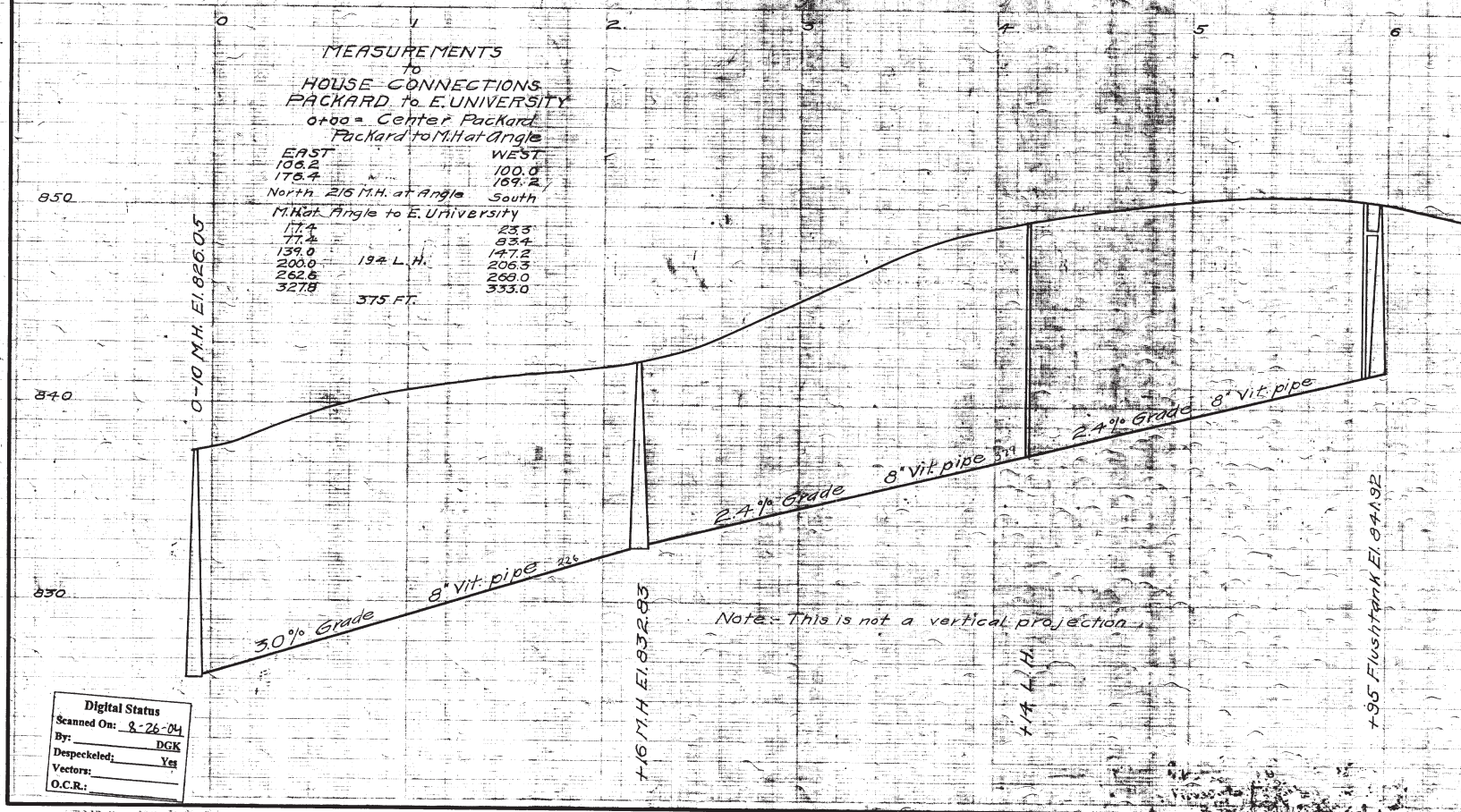
CITY ENGINEER'S OFFICE  
**ANN ARBOR, MICH.**  
PLAN AND PROFILE  
OF  
SANITARY SEWER  
**S. STATE ST.**  
MONROE ST. TO PACKARD ST.  
Manley Osgood, City Engineer  
1917  
Scale: Plan 1"=40' Profile Vert. 1"=4'





MEASUREMENTS  
to  
HOUSE CONNECTIONS  
PACKARD to E. UNIVERSITY  
0+00 = Center Packard  
Packard to Mill at Angle

EAST	WEST
106.2	100.0
176.4	169.2
North 2/5 M.H. at Angle	
M.H. at Angle to E. University	
177.4	233
77.4	83.4
139.0	147.2
200.0	206.3
262.6	269.0
327.8	333.0
375 FT.	



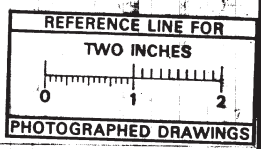
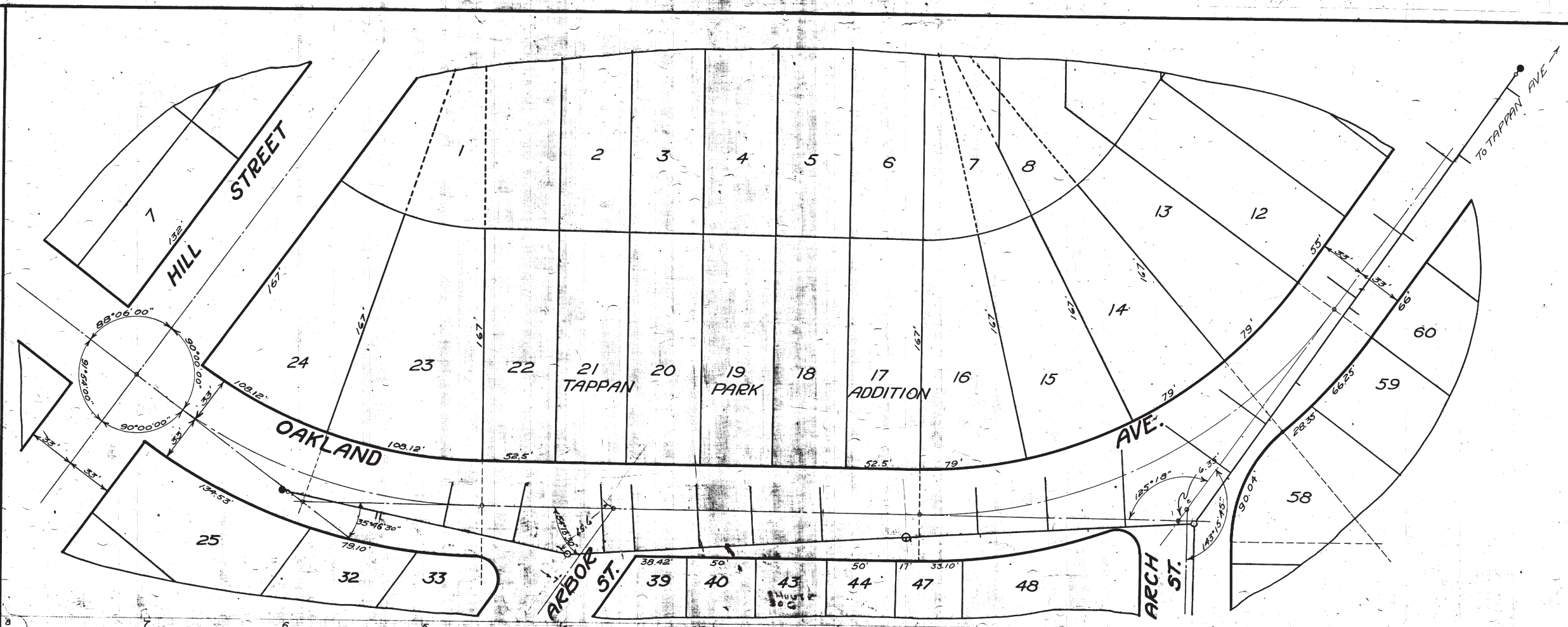
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Vectors:  
O.C.R.:

SHEET No. 27  
INDEX No. 73A  
SHELF No. 6  
SIZE C  
SUB No. 121

Drawn by:  
Traced by Feiner  
Checked by J

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





MEASUREMENTS TO HOUSE CONNECTIONS  
 Oakland Ave. from Arbor St. to Hill St.  
 Sta. 0 = Intersection of E. of Oakland @ Arch

East	West
476.3	535.5
583.3	585.3
653.4 = F.T.	

Arch St. to Arbor St.

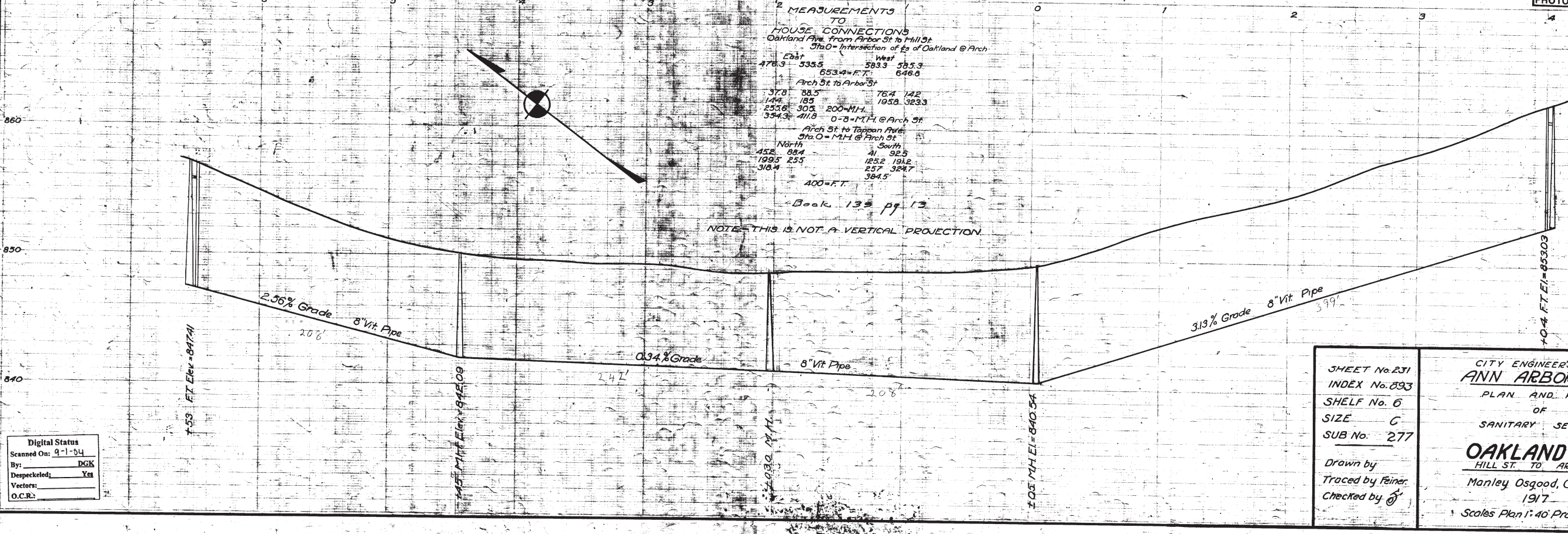
North	South
37.8	88.5
144	185
255.6	303
354.3	411.8

Arch St. to Tappan Ave.  
 Sta. 0 = M.H. @ Arch St.

North	South
452	884
1935	255
384	41
	92.5
	125.2
	1912
	257
	3247
	384.5

400 = FT.

NOTE: THIS IS NOT A VERTICAL PROJECTION



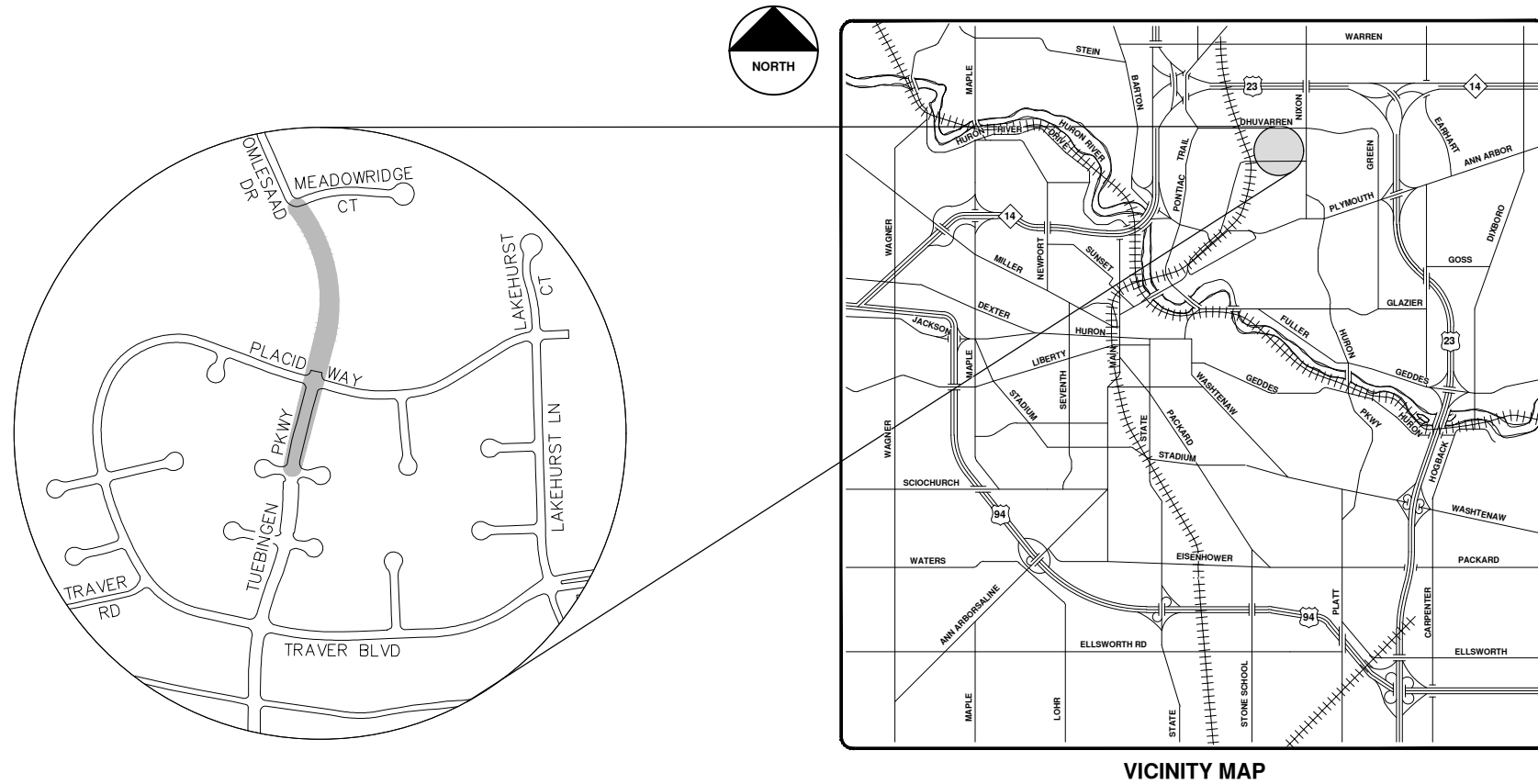
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 By: DKG  
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 O.C.R.:

SHEET No. 231 INDEX No. 093 SHELF No. 6 SIZE C SUB No. 277 Drawn by Traced by Feiner Checked by	CITY ENGINEER'S OFFICE <b>ANN ARBOR, MICH.</b> PLAN AND PROFILE OF SANITARY SEWER <b>OAKLAND AVE.</b> HILL ST. TO ARCH ST. Manley Osgood, City Engineer. 1917 Scales Plan 1" = 40' Profile Hor. 1" = 4'
--	--




# 2018 SANITARY SEWER LINING

## PLACID WAY PARK



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg - \_a2 standard bw.stb - Plot Date: 4/27/2018 9:46:48 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. 2017032-31  
 SHEET No. 31 OF 130

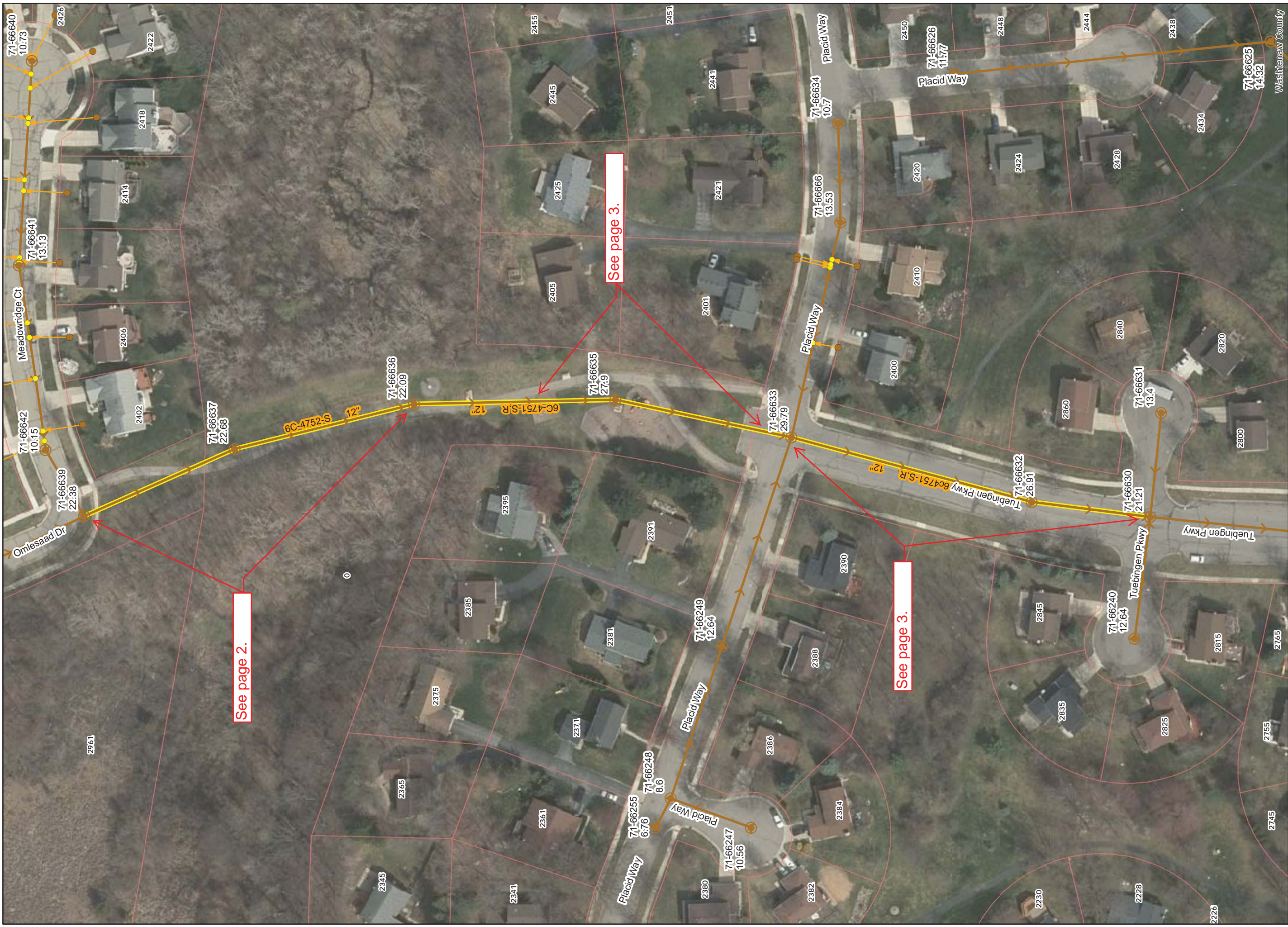
**© 2018 SANITARY SEWER LINING; LOCATION: PLACID WAY PARK; 2017032**

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	5-3-18	DPF	IVK


 Know what's below.  
 Call before you dig.

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 PUBLIC SERVICES  
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 ANN ARBOR 734-794-6410  
 www.a2gov.org





See page 2.

See page 3.

See page 3.

**Legend**

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

# Placid Way Park



71-70682 (Manhole ID)

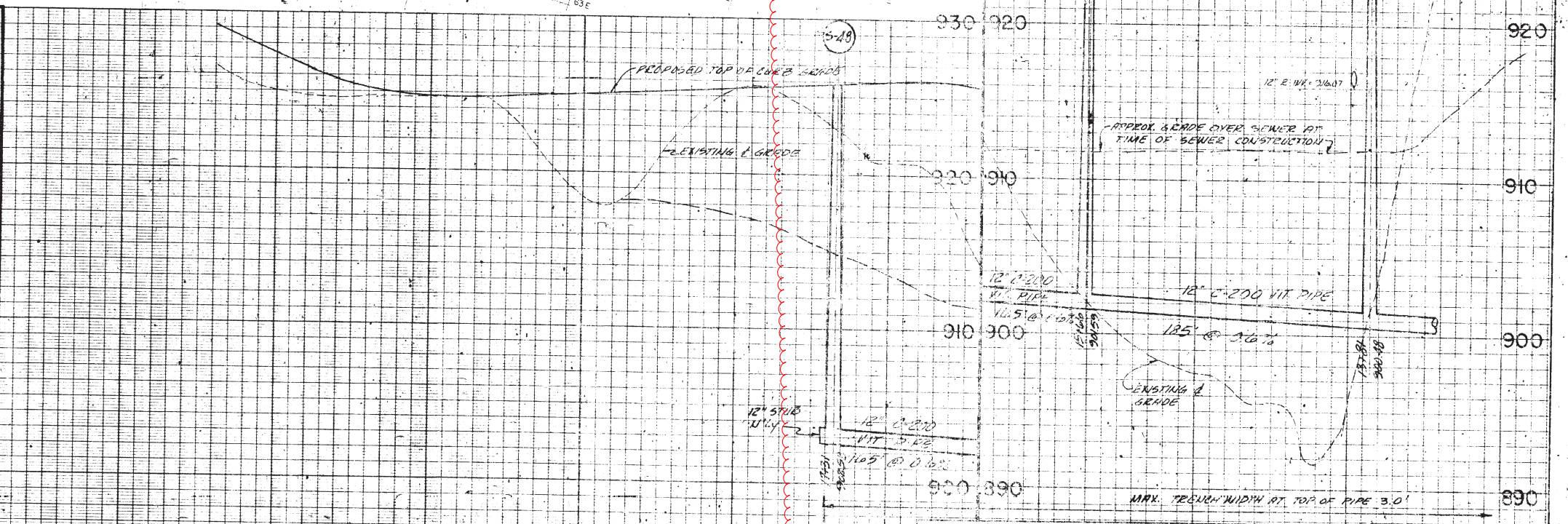
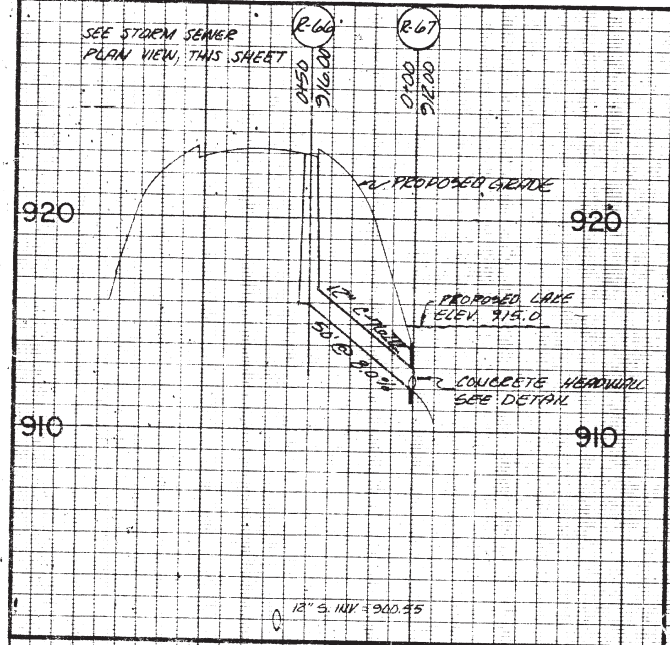
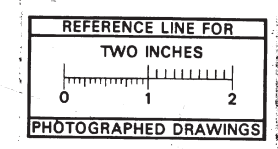
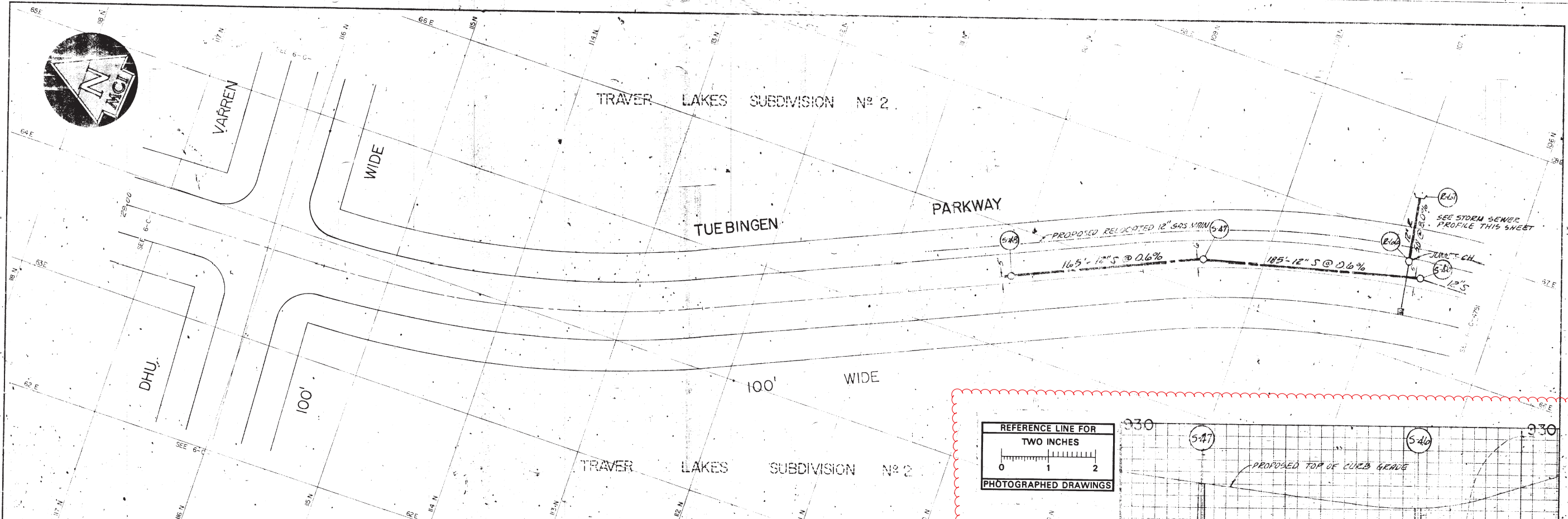
5.07 (Manhole Depth)

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Feet





Digital Status:  
Scanned On: 6/21/15  
By: LCB

WLG 7-71 INDEX NO. 7104  
REV. 4-06 7-71  
6-C-4752  
SANITARY AND STORM SEWER  
TUEBINGEN PARKWAY  
FROM 400' NORTH OF PLACID WAY TO DHU WARREN RD.  
TRAVER LAKES SUBDIVISION NO. 2  
SUPERINTENDENT OF PUBLIC WORKS  
FREDERICK A. MAMMEL

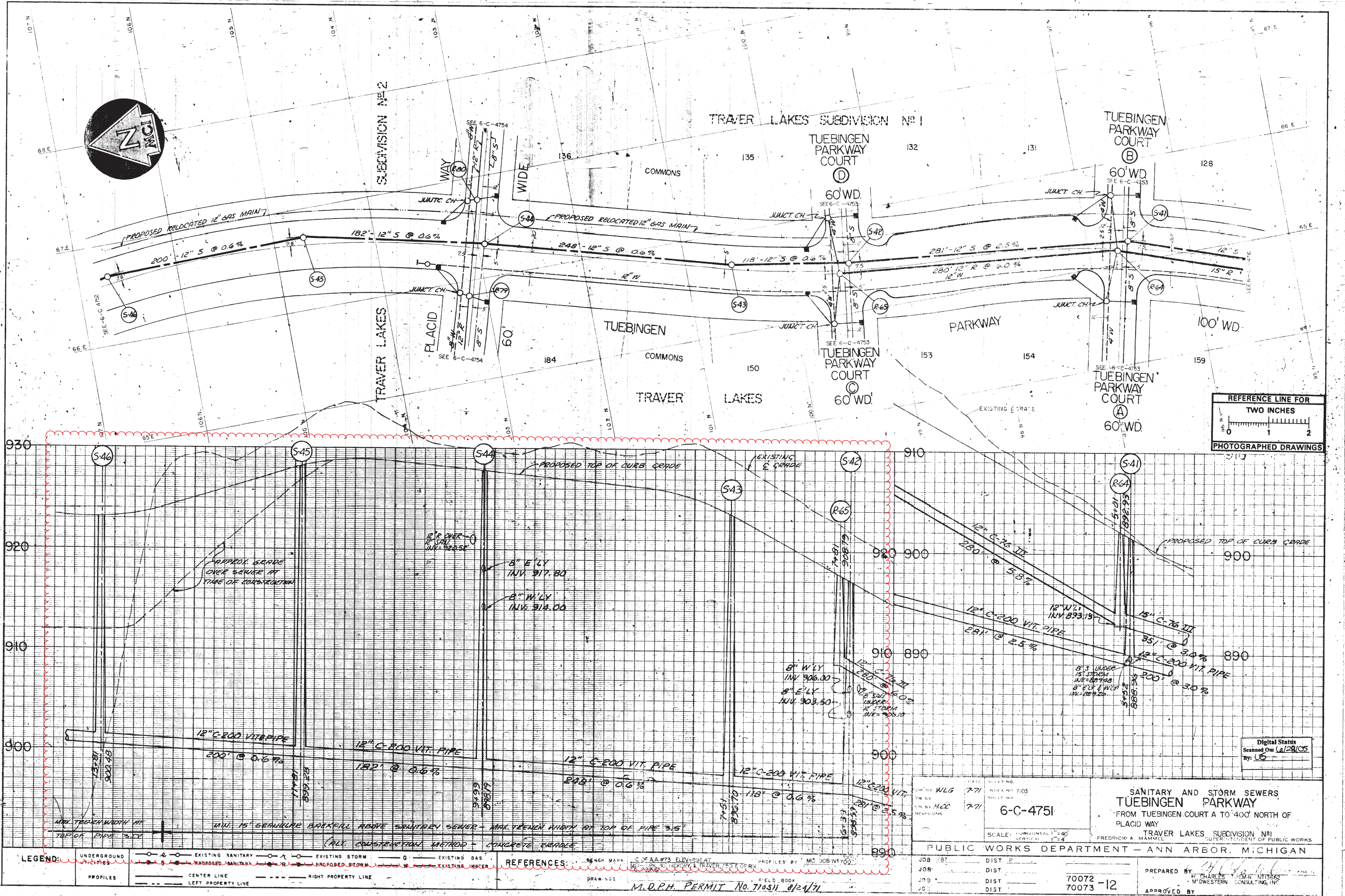
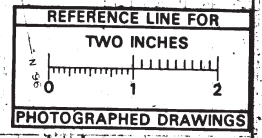
**LEGEND:**

UNDERGROUND UTILITIES	—○—○— EXISTING SANITARY	—○—○— EXISTING STORM	—G— EXISTING GAS
PROFILES	—○—○— PROPOSED SANITARY	—○—○— PROPOSED STORM	—W— EXISTING WATER
	— — — — CENTER LINE	— — — — RIGHT PROPERTY LINE	
	— — — — LEFT PROPERTY LINE		

**REFERENCES:** BENCH MARK 72 ELEV. 92.47  
M.D.P.H. PERMIT No. 710511 8/24/77

JOB: 787 DIST: 13  
JOB: DIST: 13  
JOB: DIST: 13  
70072-13  
70073  
PREPARED BY: [Signature]  
APPROVED BY: [Signature]





Digital Status  
Scanned On: 02/28/05  
By: US

DATE: 7-71		SHEET NO. 7-03		SANITARY AND STORM SEWERS TUEBINGEN PARKWAY FROM TUEBINGEN COURT A TO 400' NORTH OF PLACID WAY	
DRAWN BY: NLG		CHECKED BY: HCC			
PROJECT NO. 6-C-4751				TRAVER LAKES SUBDIVISION NO. 1	
SCALE: HORIZONTAL 1"=40'				SUPERINTENDENT OF PUBLIC WORKS	
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN				FREDRICK A. MAMMEL	
JOB NO. 787	DIST. P.	70072-12	PREPARED BY: CHARLES T. SEAN NITBARD		
JOB NO.	DIST.	70073-12	M'WESTERN CONSULTING, INC.		
JOB NO.	DIST.		APPROVED BY:		

**LEGEND:**  
 UNDERGROUND: EXISTING SANITARY: EXISTING STORM: EXISTING GAS:   
 PROPOSED SANITARY: PROPOSED STORM: EXISTING WATER:   
 PROFILES: CENTER LINE: RIGHT PROPERTY LINE: LEFT PROPERTY LINE:

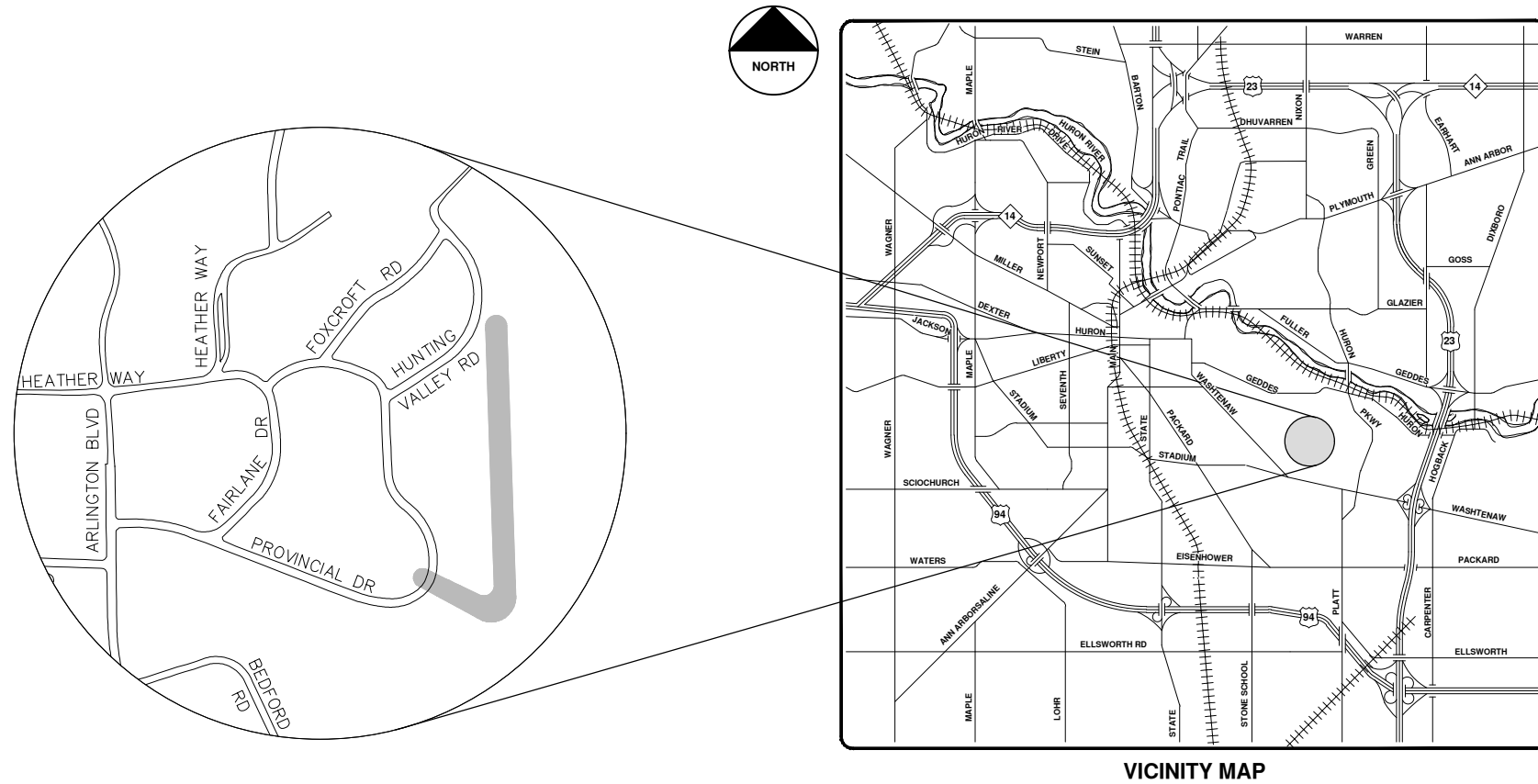
**REFERENCES:**  
 BENCH MARK: C OF AA #73 ELEV 95.47  
 M.D.P.H. PERMIT No. 710511 8/24/71





# 2018 SANITARY SEWER LINING

## CROSSLOT HURON HILLS



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg - \_a2 standard bw.stb - Plot Date: 4/27/2018 9:46:49 AM



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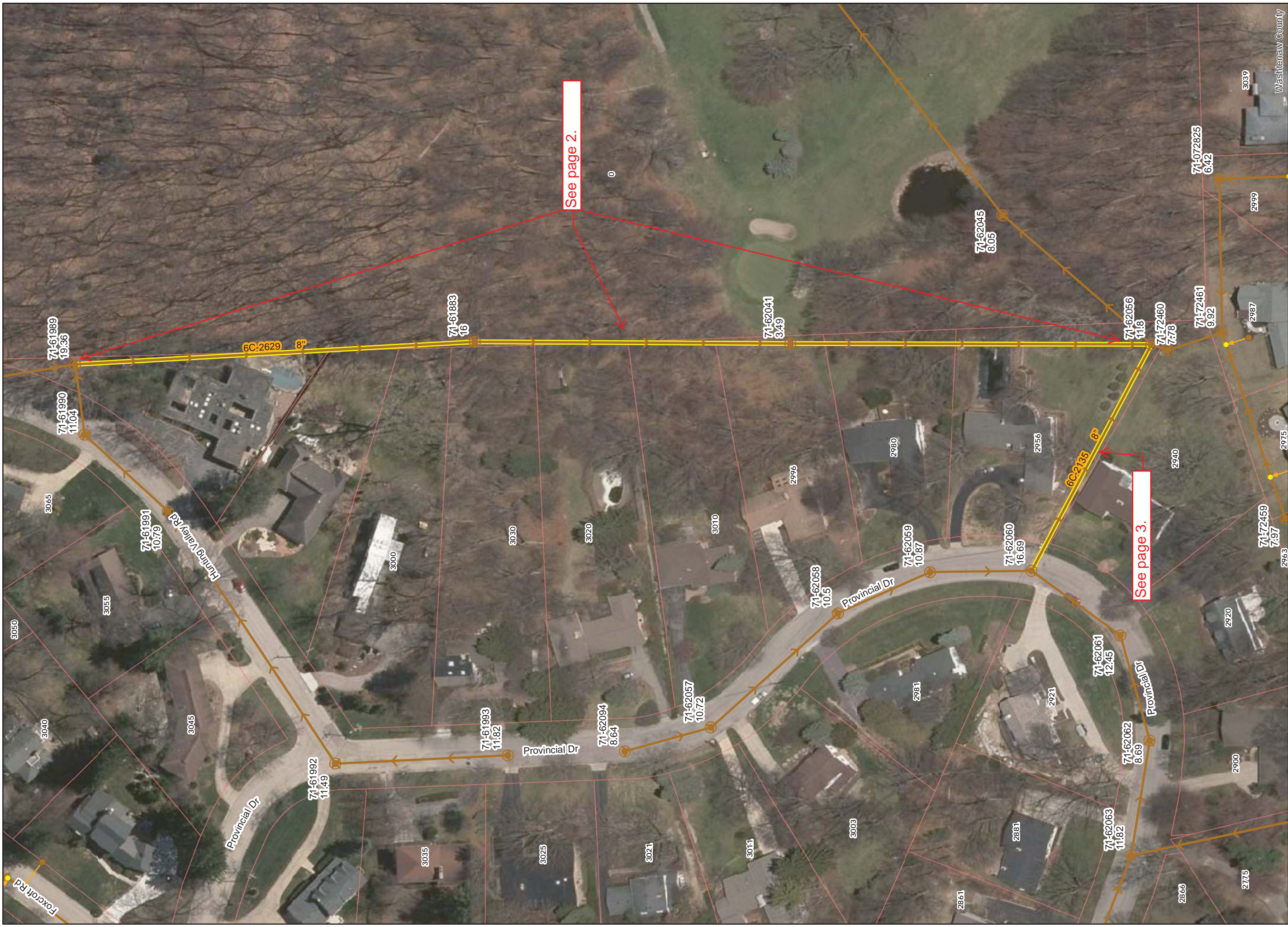
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE  
 DRAWING No.  
 2017032-35

SHEET No.  
 35 OF 130

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	5-3-18	DPF	INK





See page 2.

See page 3.

**Legend**

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

71-70682 (Manhole ID)

5.07 (Manhole Depth)

# Crosslot Huron Hills

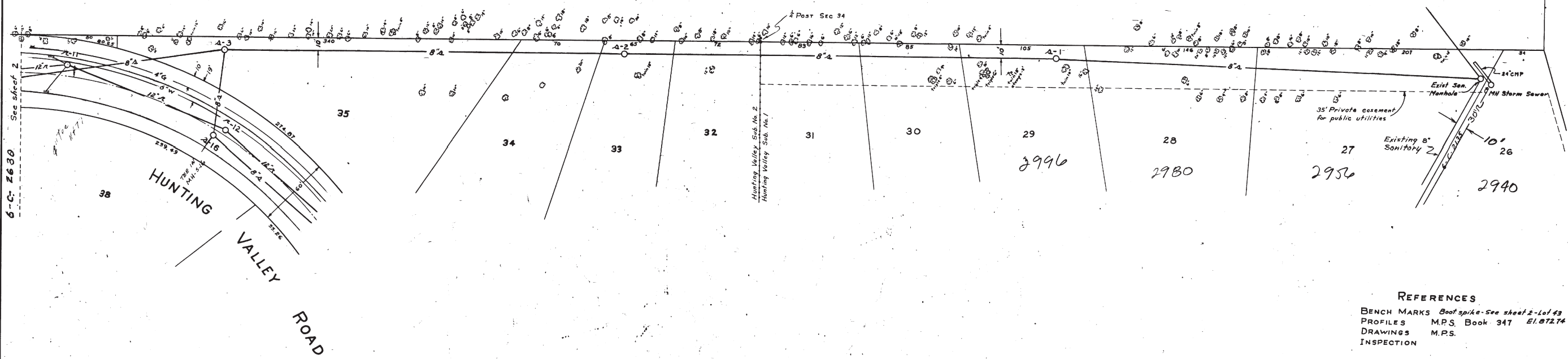


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Washtenaw County

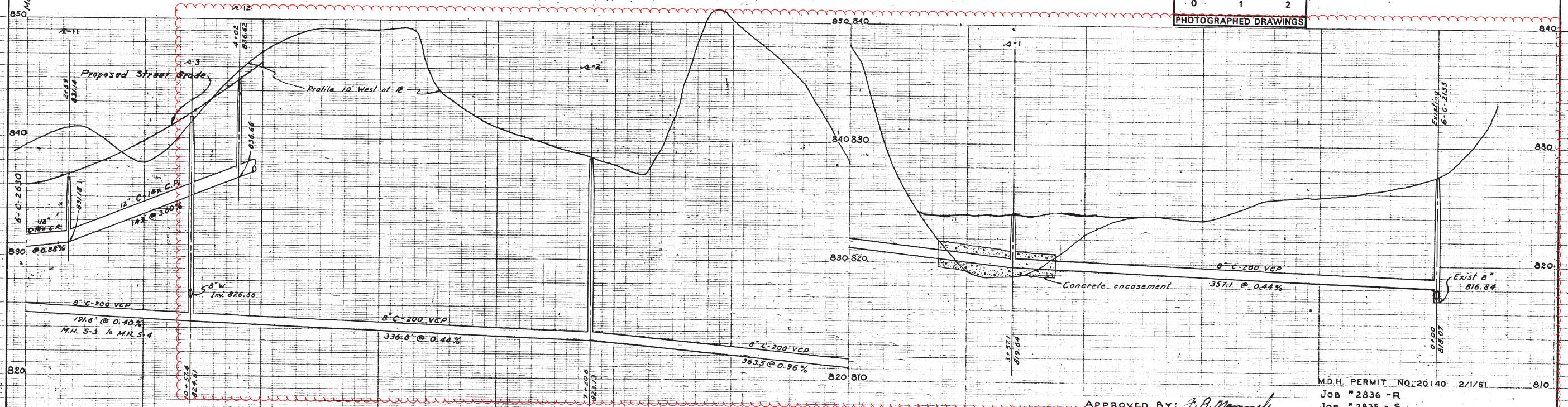
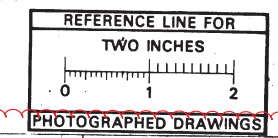


# MUNICIPAL GOLF COURSE



**REFERENCES**  
 BENCH MARKS *Bootspike-See sheet 2-Lot 43*  
 PROFILES M.P.S. Book 347 *EL. 872.74*  
 DRAWINGS M.P.S.  
 INSPECTION

- LEGEND**
- S — PROPOSED SANITARY SEWER
  - R — PROPOSED STORM SEWER
  - A — EXISTING SANITARY SEWER
  - A — EXISTING STORM SEWER



Digital Status  
 Scanned On: 5-31-05  
 By: DGR  
 Despeckled: Yes  
 Vectors: Yes  
 O.C.R.:

APPROVED BY: *F. A. Mammel*

DR. BY	DGD	DATE	9-60	SHEET NO.	4 of 5
TR. BY	DGD	DATE	9-60	INDEX NO.	4583
CH. BY	HWG	DATE		SHELF NO.	
REVISIONS					
As built Apr 13, 1961					
6-C-2629					
SCALE: HORIZONTAL 40' VERTICAL 4'					

M.D.H. PERMIT NO. 20140 2/1/61  
 JOB #2836 - R  
 JOB #2835 - S

**STORM AND SANITARY SEWERS**  
**HUNTING VALLEY No. 2**  
**RIGHT OF WAY**  
**LOT 26 TO LOT 35**  
 FREDERICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS

**PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN**

PREPARED BY McNAMEE, PORTER AND SEELEY,  
 CONSULTING ENGINEERS



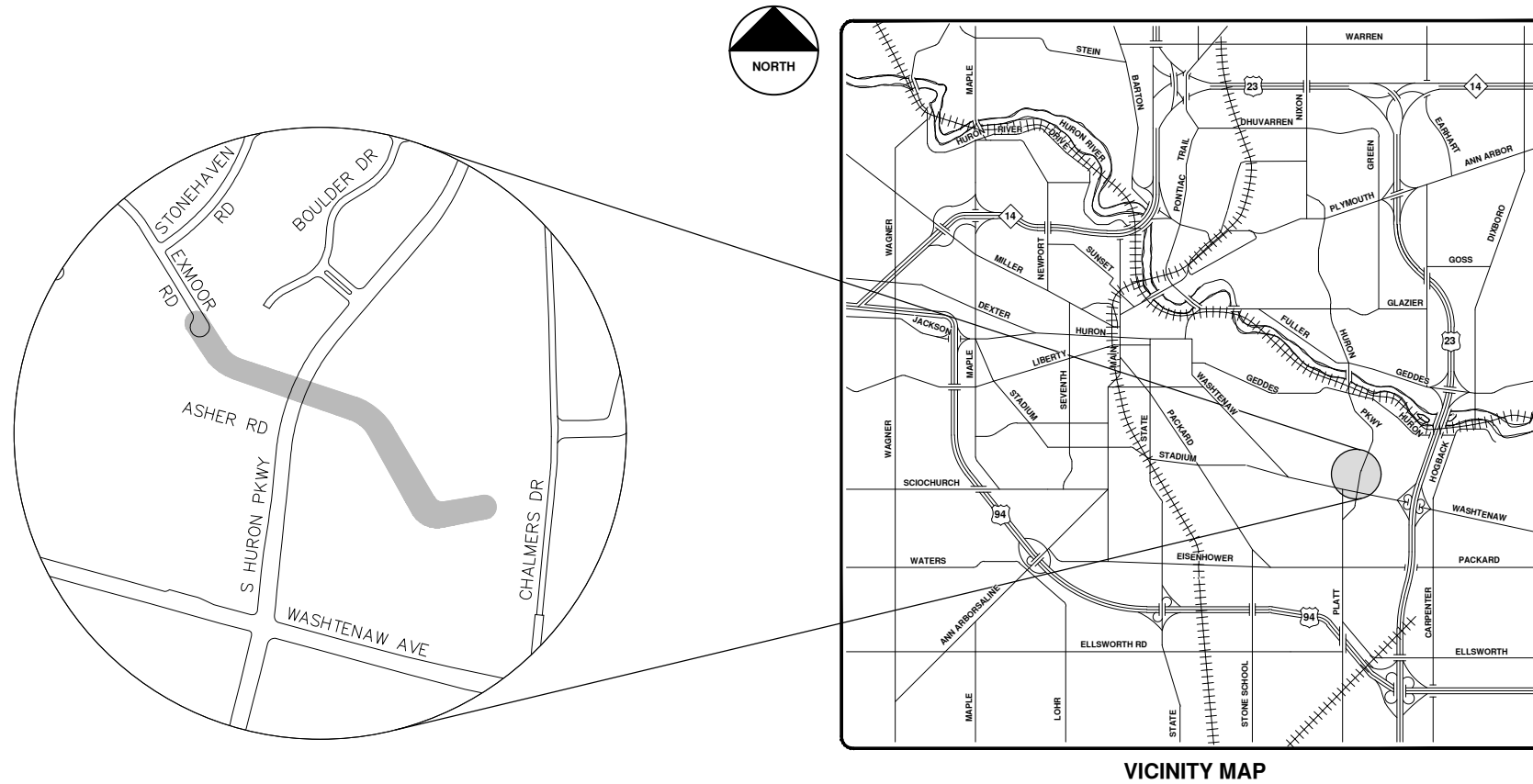






# 2018 SANITARY SEWER LINING

## CROSSLOT EXMOOR, CHALMERS



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg - \_a2 standard bw.stb - Plot Date: 4/27/2018 9:46:50 AM



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE  
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 2017032-39

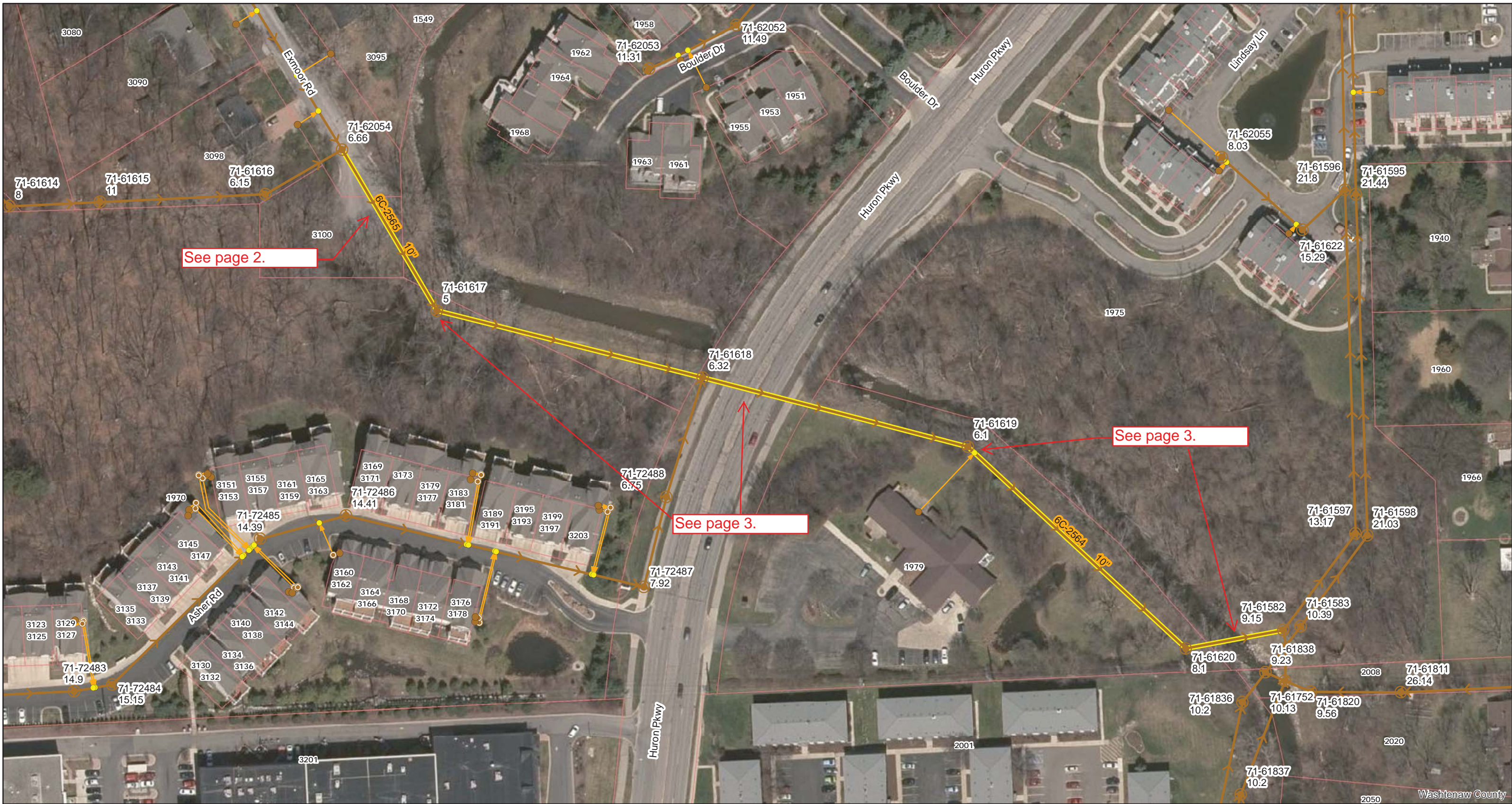
SHEET No.  
 39 OF 130

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	5-3-18	DPF	IVK

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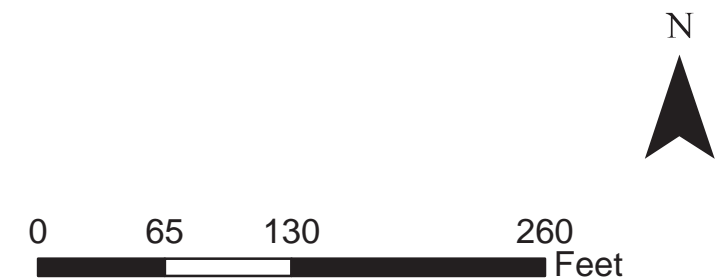


- Legend**
- Proposed Lining
  - Lined Pipe
  - Sanitary Main
  - Sanitary Lateral, Abandoned
  - Sanitary Lateral
  - ⊗ Sanitary Lateral, Plugged
  - Manhole

71-70682 (Manhole ID)  
 5.07 (Manhole Depth)

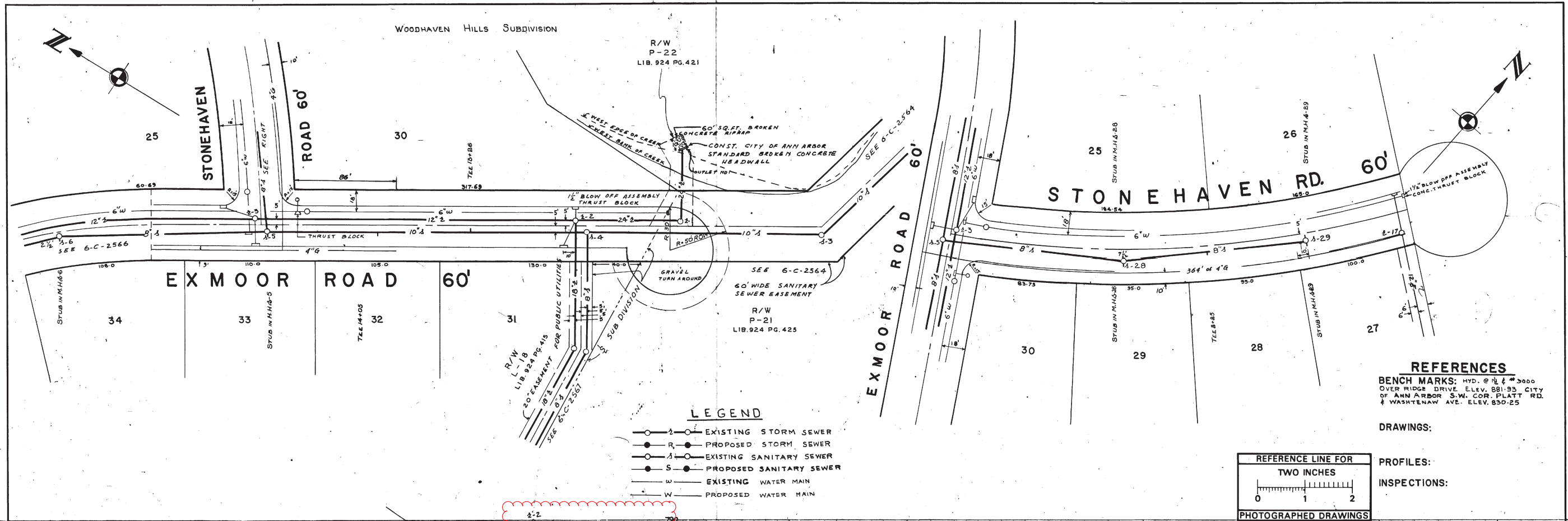
## Crosslot Exmoor / Chalmers

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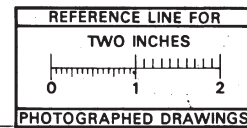
Washtenaw County



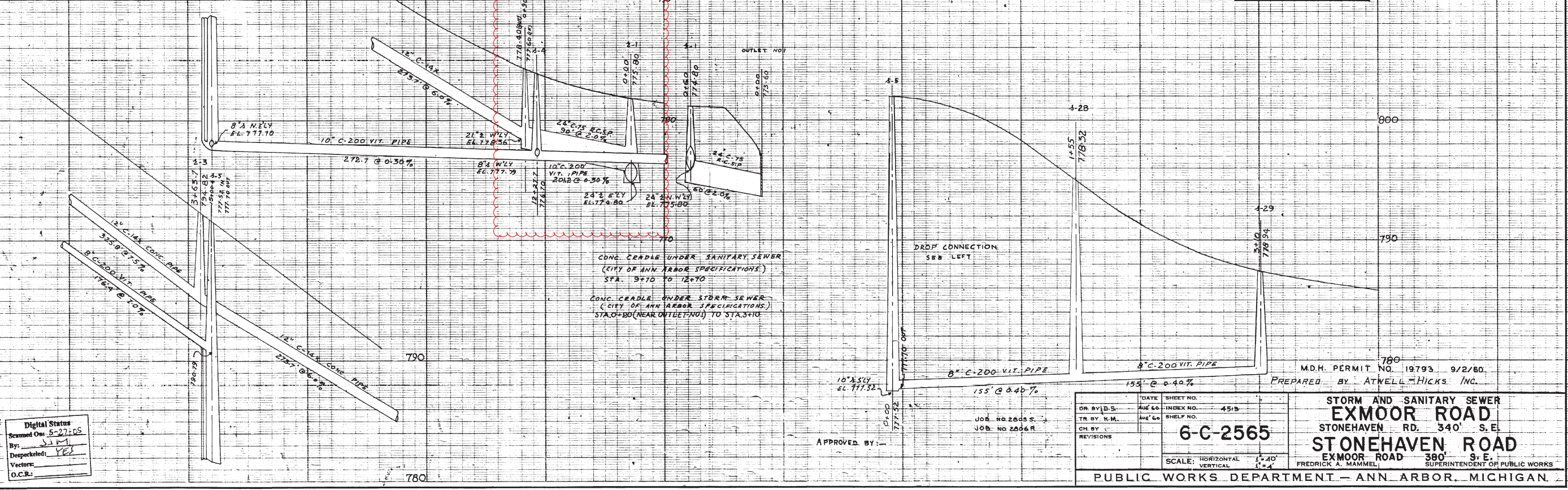


- LEGEND**
- EXISTING STORM SEWER
  - PROPOSED STORM SEWER
  - EXISTING SANITARY SEWER
  - PROPOSED SANITARY SEWER
  - W — EXISTING WATER MAIN
  - W — PROPOSED WATER MAIN

**REFERENCES**  
 BENCH MARKS: HYD. @ # 3000  
 OVER RIDGE DRIVE ELEV. 881.95 CITY  
 OF ANN ARBOR S.W. COR. PLATT RD.  
 & WASHTEAW AVE. ELEV. 830.25



DRAWINGS:  
 PROFILES:  
 INSPECTIONS:



Digital Status  
 Scanned On: 8-27-05  
 By: J.M.  
 Despeckled: YES  
 Vectors:  
 O.C.R.:

APPROVED BY: \_\_\_\_\_

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 JOB NO. 2806 R

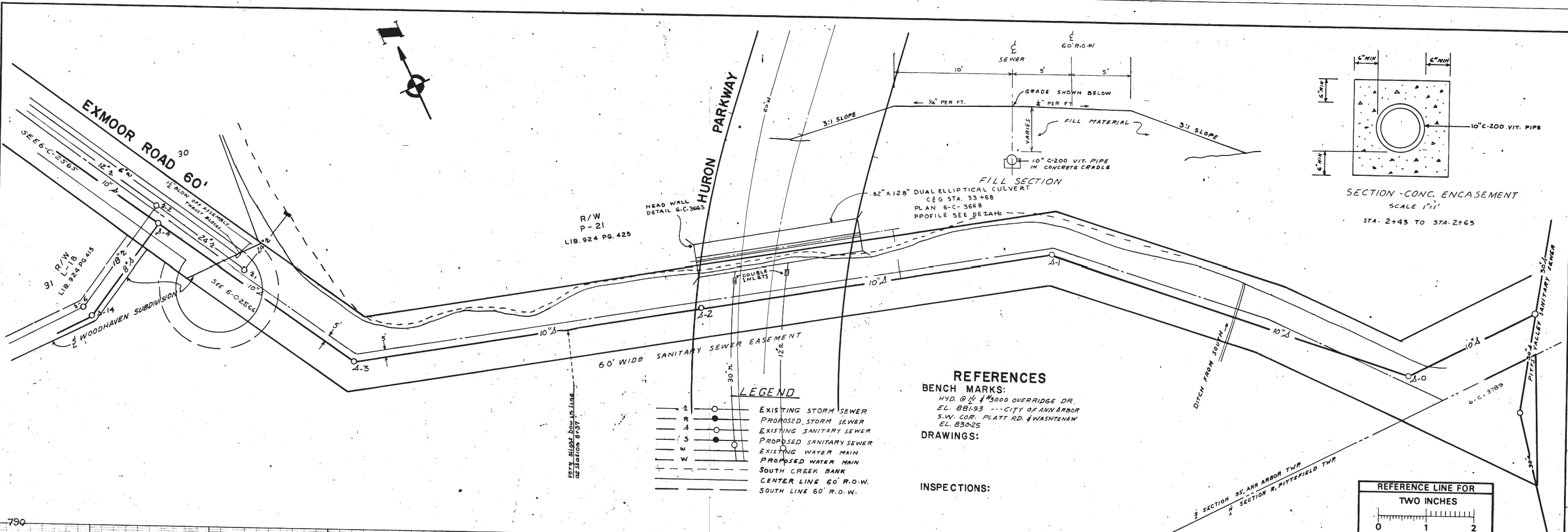
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<b>6-C-2565</b>	
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SCALE: VERTICAL	1"=4'

MDH. PERMIT NO. 19793 9/2/80.  
 PREPARED BY ATWELL-HICKS, INC.

**STORM AND SANITARY SEWER**  
**EXMOOR ROAD**  
 STONEHAVEN RD. 340' S.E.  
**STONEHAVEN ROAD**  
 EXMOOR ROAD 380' S.E.  
 FREDRICK A. MAMMEL  
 SUPERINTENDENT OF PUBLIC WORKS

PUBLIC WORKS DEPARTMENT — ANN ARBOR, MICHIGAN





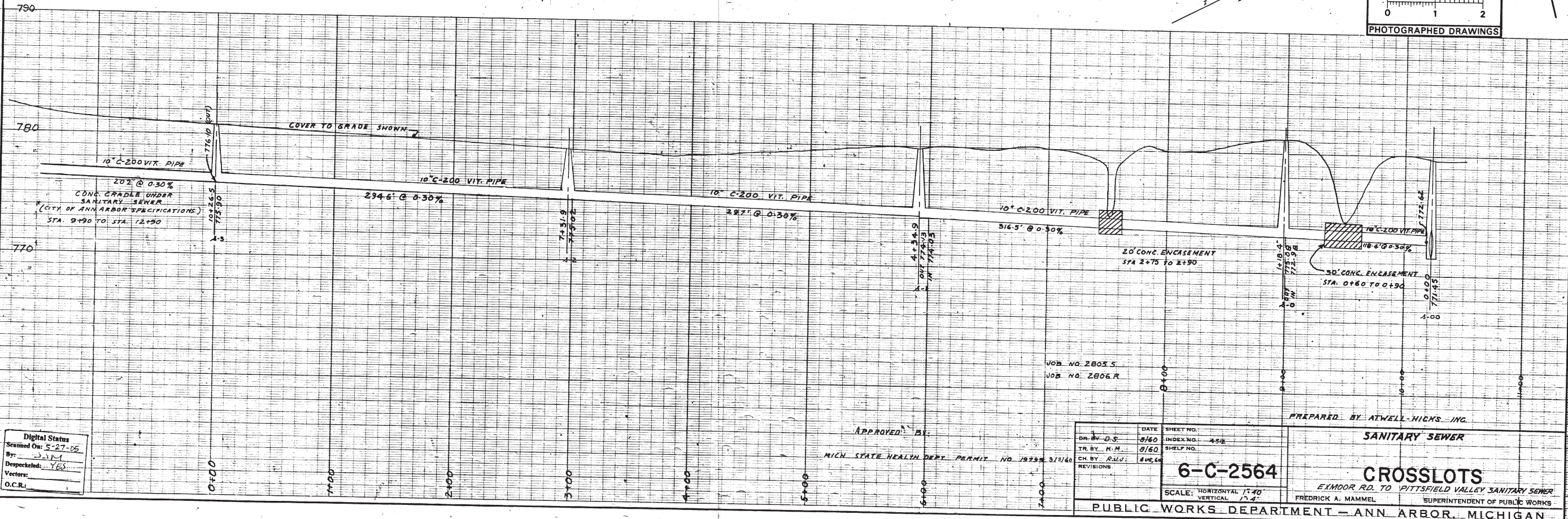
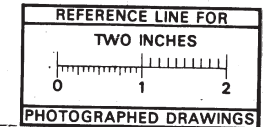
- LEGEND**
- EXISTING STORM SEWER
  - PROPOSED STORM SEWER
  - EXISTING SANITARY SEWER
  - PROPOSED SANITARY SEWER
  - EXISTING WATER MAIN
  - PROPOSED WATER MAIN
  - SOUTH CREEK BANK
  - CENTER LINE 60' R.O.W.
  - SOUTH LINE 60' R.O.W.

**REFERENCES**

**BENCH MARKS:**  
 HYD. G. N. #15000 OVERRIDE DR.  
 E.L. 881.93 --- CITY OF ANN ARBOR  
 S.W. COR. PLATT RD. & WASHTENAW  
 E.L. 830.25

**DRAWINGS:**

**INSPECTIONS:**



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 By: J.M.  
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APPROVED BY:  
 MICH STATE HEALTH DEPT. PERMIT NO. 19299 9/1/60

DATE	SHEET NO.	DR. BY	INDEX NO.
5/60	452	D.S.	452
TR. BY	SHELF NO.	CH. BY	REV. NO.
M.M.		R.J.V.	105.66

**6-C-2564**

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

**SANITARY SEWER**

**CROSSLOTS**

EXMOOR RD. TO PITTSFIELD VALLEY SANITARY SEWER  
 FREDRICK A. MAMMEL  
 SUPERINTENDENT OF PUBLIC WORKS

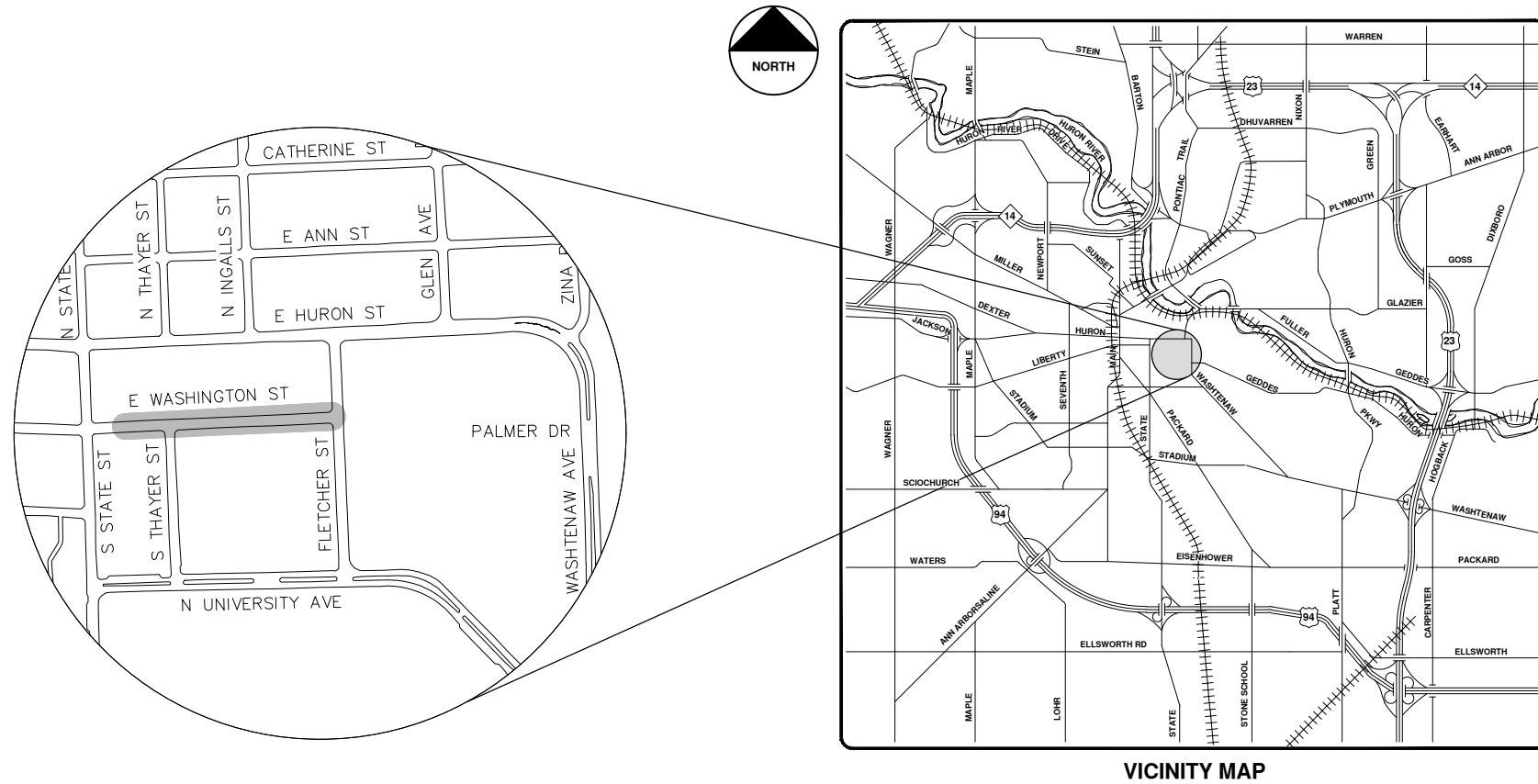
**PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN**





# 2018 SANITARY SEWER LINING

## EAST WASHINGTON




VICINITY MAP

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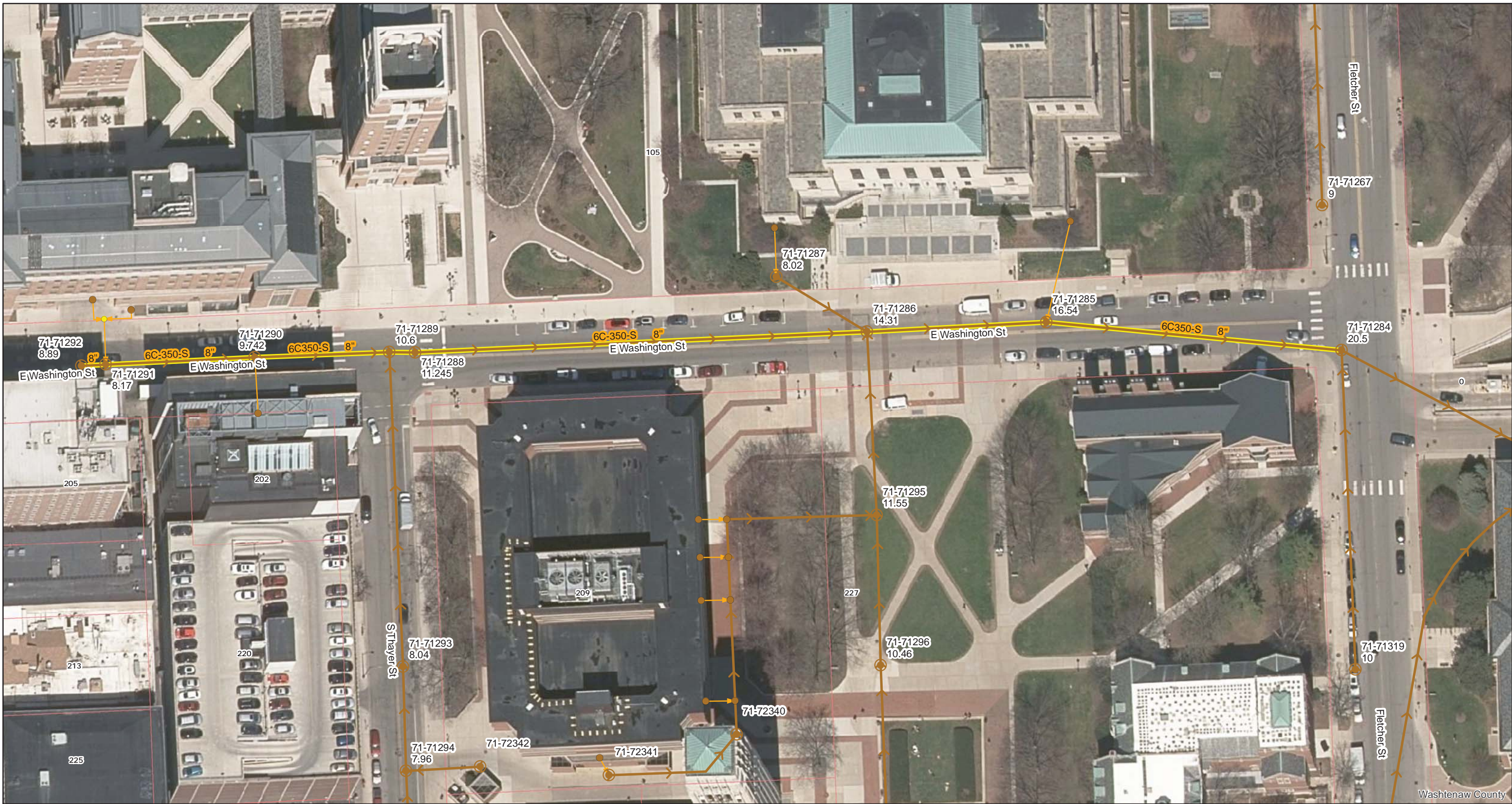


**ENGINEERING**  
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 ANN ARBOR, MICHIGAN 48107-8647  
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		CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48107-8647 734-794-6410 www.a2gov.org	
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING	SCALE	DRAWING No. 2017032-43	SHEET No. 43 OF 130
© 2018 SANITARY SEWER LINING; LOCATION: EAST WASHINGTON; 2017032		DESCRIPTION BID SET	DATE 5-3-18
REV.	CO	DRAWN DPF	CHECKED INK





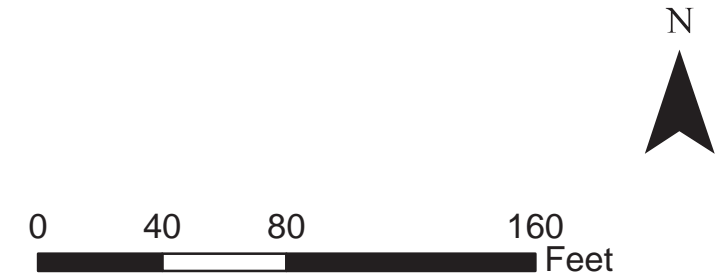


- Legend**
- Proposed Lining
  - Lined Pipe
  - Sanitary Main
  - Sanitary Lateral, Abandoned
  - Sanitary Lateral
  - x-x-x- Sanitary Lateral, Plugged
  - Manhole

71-70682 (Manhole ID)  
 5.07 (Manhole Depth)

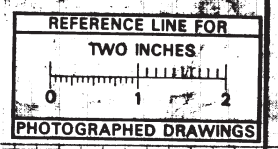
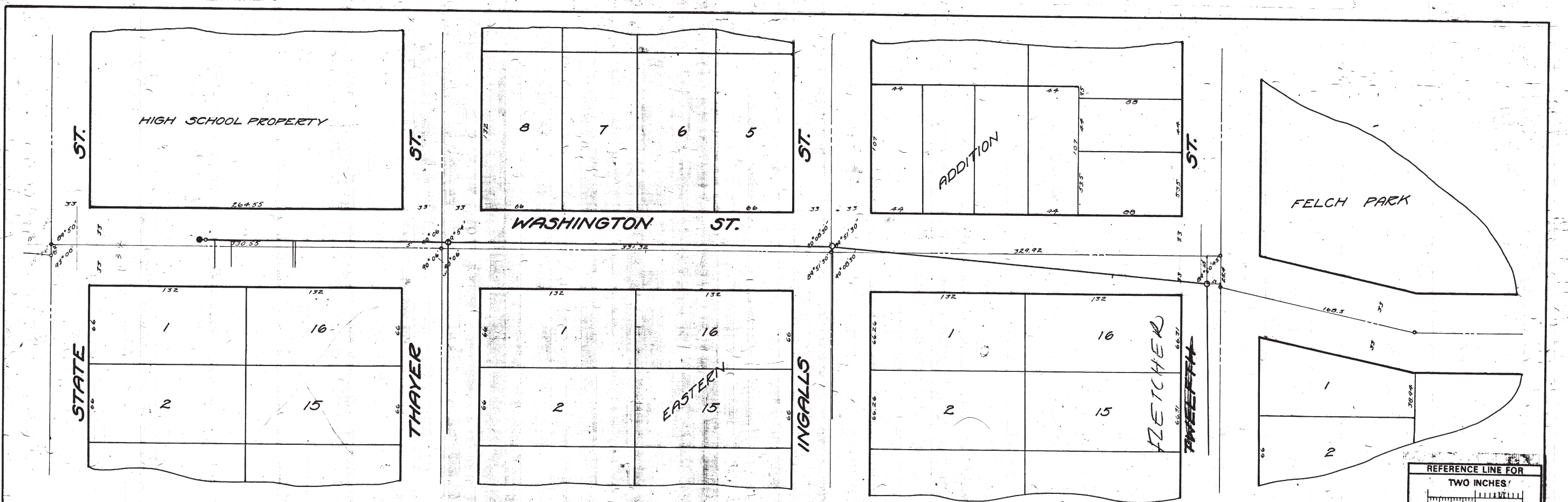
# East Washington

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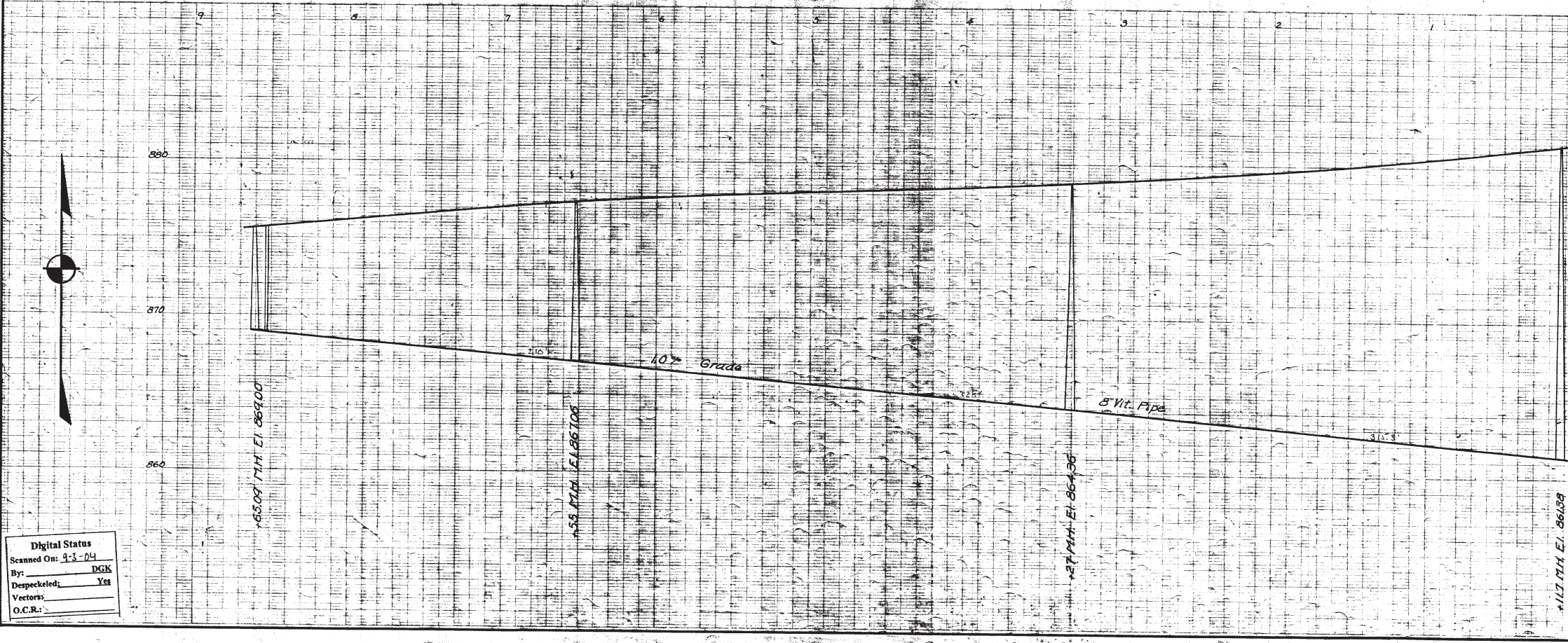


Washtenaw County





MEASUREMENTS TO HOUSE CONNECTIONS  
 Thayer to State  
 376.0 = M.H. @ Thayer  
 North 129  
 131  
 183  
 197  
 South  
 200 = L.H.  
 208 = F.T.I.  
 Ingalls to 12<sup>th</sup>  
 376.0 = M.H. @ Ingalls 238.6



SHEET No 321  
 INDEX No 965  
 SHELF No 6  
 SIZE C  
 SUB No 350

CITY ENGINEER'S OFFICE  
**ANN ARBOR, MICH.**  
 PLAN AND PROFILE  
 OF  
 SANITARY SEWER  
**WASHINGTON ST.**  
 FROM STATE ST. TO 12<sup>th</sup> ST.  
 Manley, Cogood, City Engineer  
 1918.

Scales: Plan 1"=40'; Profile, Hor. 1"=40', Ver. 1"=4'

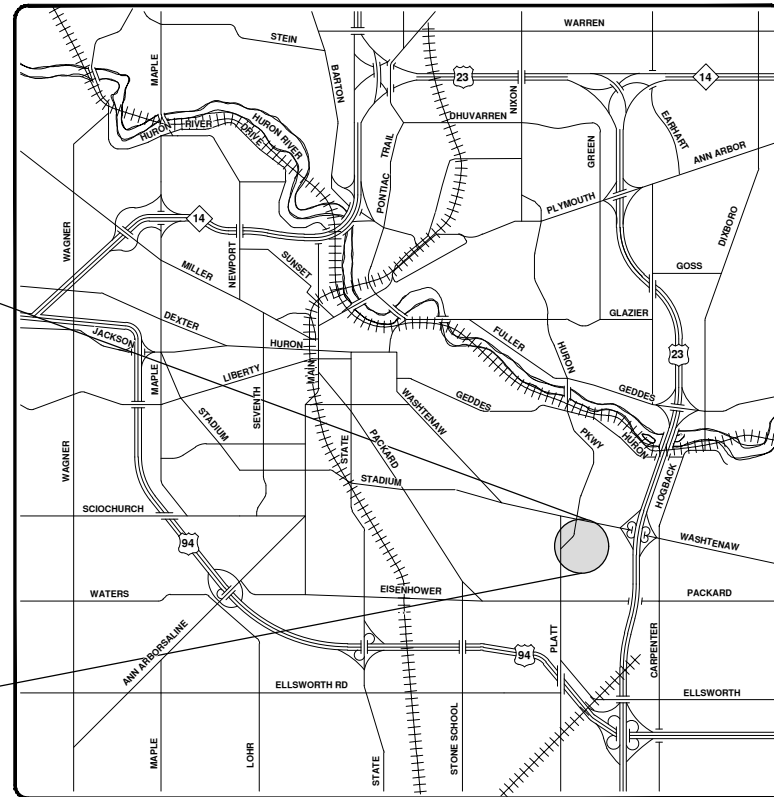
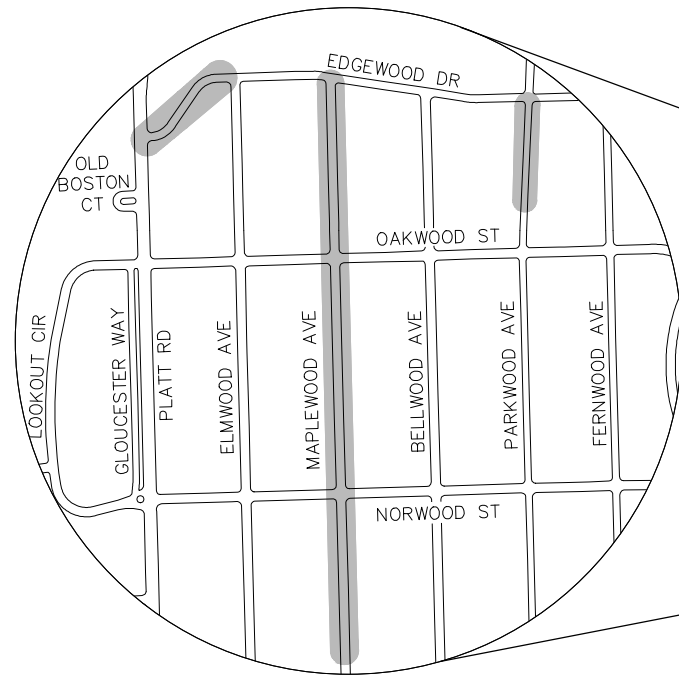
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# 2018 SANITARY SEWER LINING

## MAPLEWOOD, EDGEWOOD, PARKWOOD



VICINITY MAP

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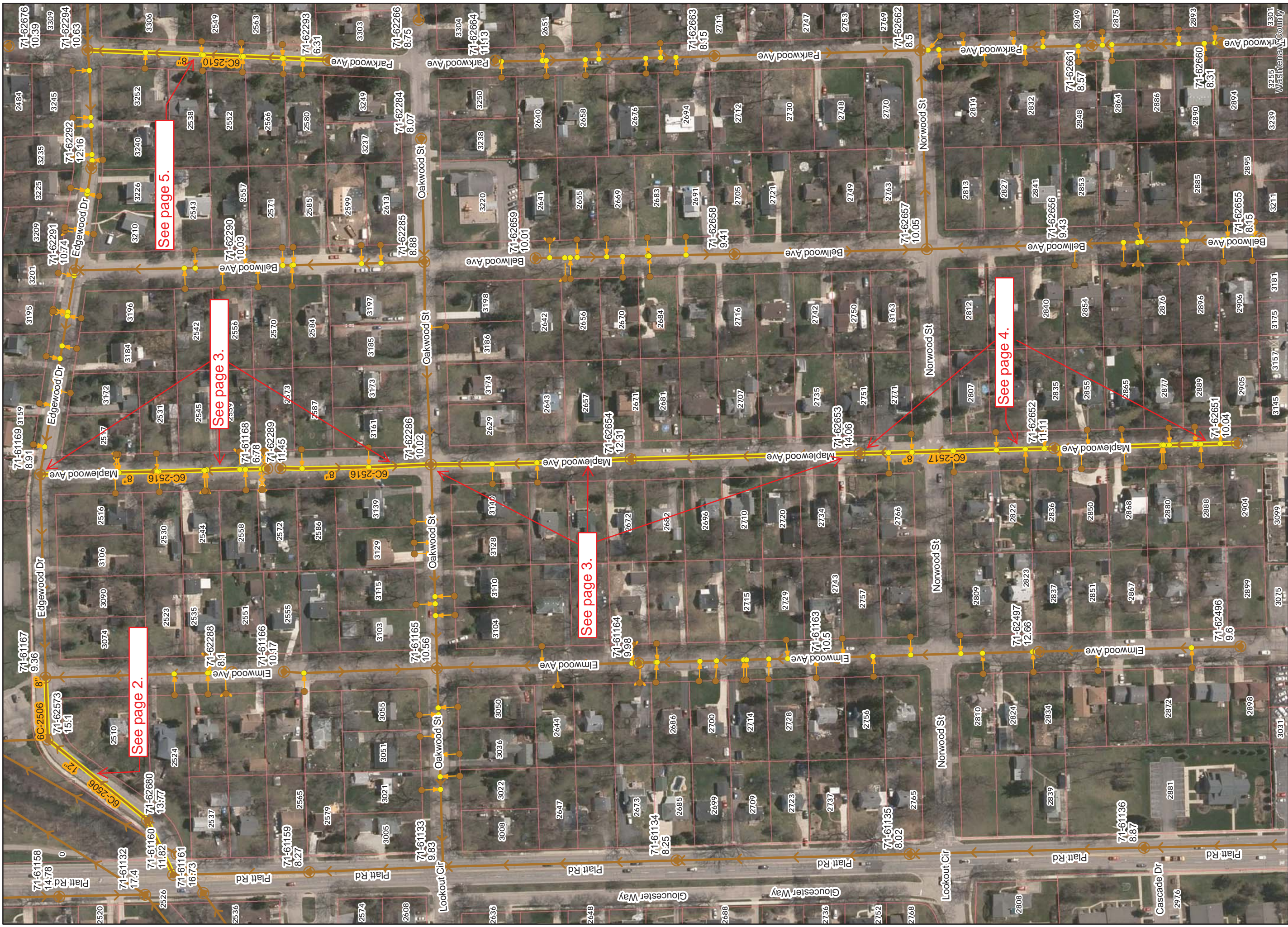
SCALE  
 DRAWING No.  
 2017032-46

SHEET No.

46 OF 130

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See page 2.

See page 5.

See page 3.

See page 3.

See page 4.

**Legend**

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

71-70682 (Manhole ID)

5.07 (Manhole Depth)

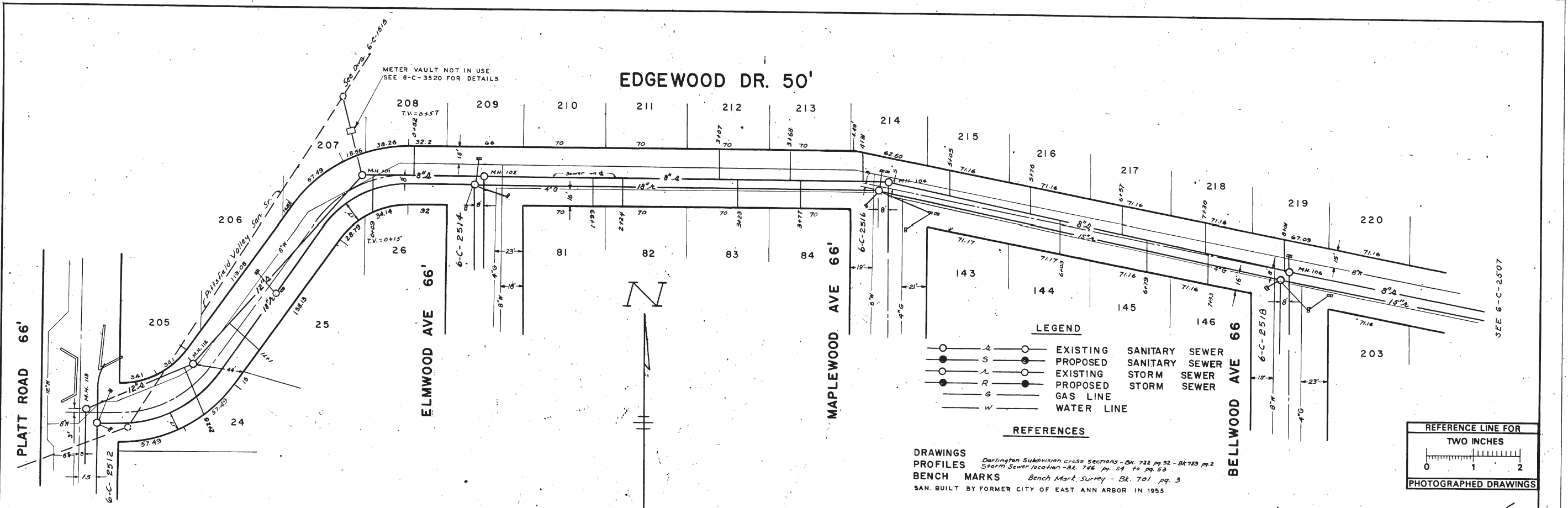
**Maplewood, Edgewood, Parkwood**



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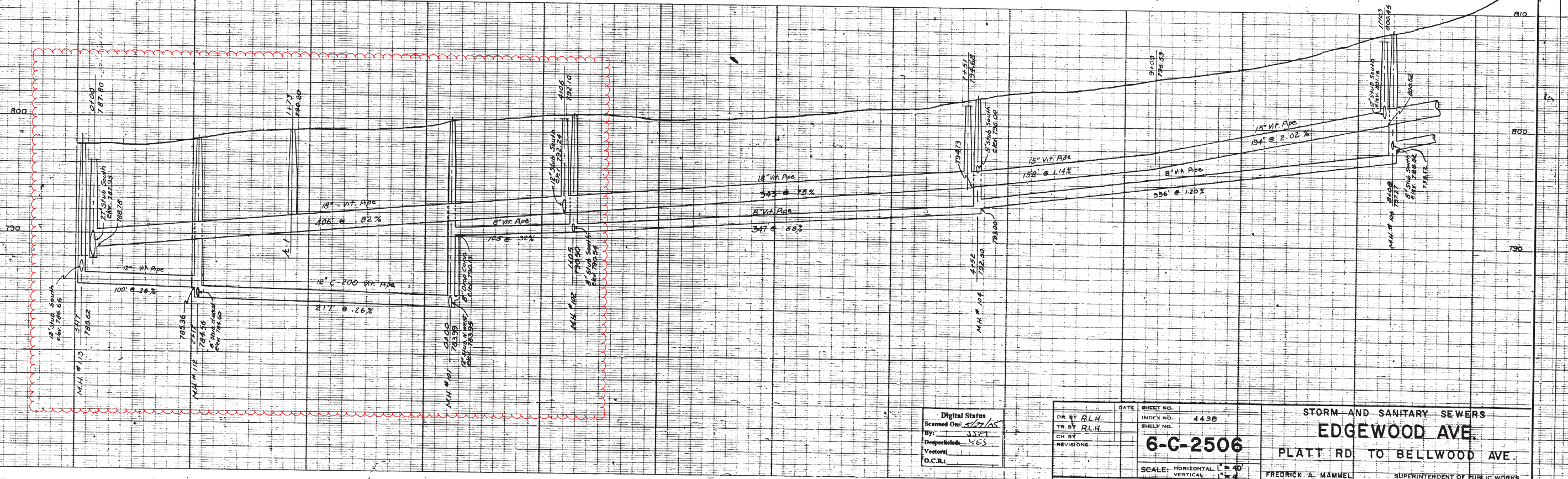
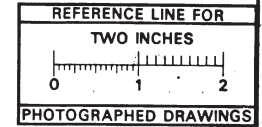




**DRAWINGS**  
**PROFILES**  
**BENCH MARKS**

*Darlington Subdivision cross sections - Bk. 732 pp. 52 - Bk. 723 pp. 2  
 Storm Sewer location - Bk. 746 pp. 24 to pp. 53  
 Bench Mark Survey - Bk. 701 pp. 3*

SAN. BUILT BY FORMER CITY OF EAST ANN ARBOR IN 1955



Digital Status  
 Scanned On: 5/17/15  
 By: JPT  
 Despoiled: YES  
 Vector: YES  
 O.C.R.:

DATE	SHEET NO.	STORM AND SANITARY SEWERS
DR. BY RLH	INDEX NO. 4438	EDGEWOOD AVE.
TR. BY RLH	SHEET NO.	PLATT RD TO BELLWOOD AVE.
CH. BY	<b>6-C-2506</b>	
REVISIONS		
SCALE: HORIZONTAL 1" = 40'	FREDERICK A. MÄMMEL	SUPERINTENDENT OF PUBLIC WORKS
VERTICAL 1" = 4'	PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN	

M.D.H. PERMIT NO. 11371 1/18/54

CH AC 2/65

PREPARED BY MCNAMEE, PORTER & SEELEY

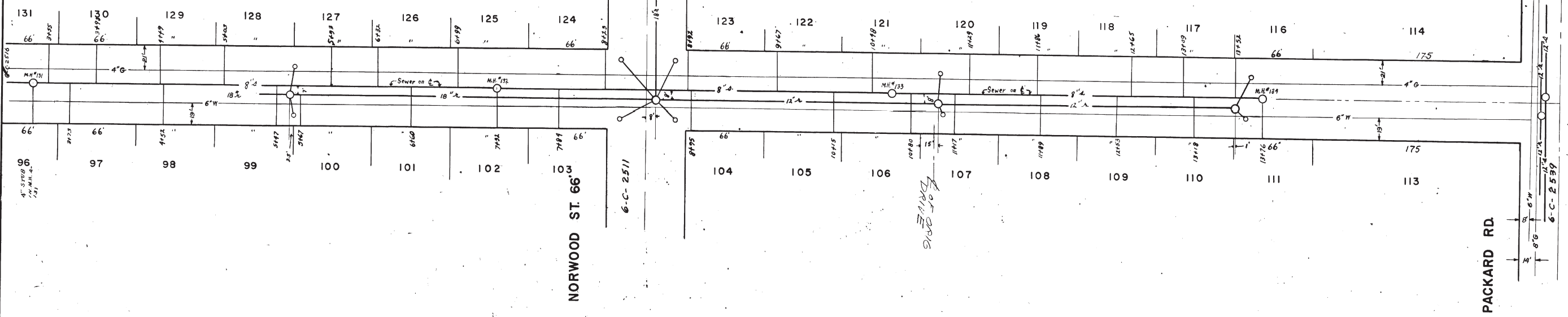








MAPLEWOOD AVE. 66'



**LEGEND**

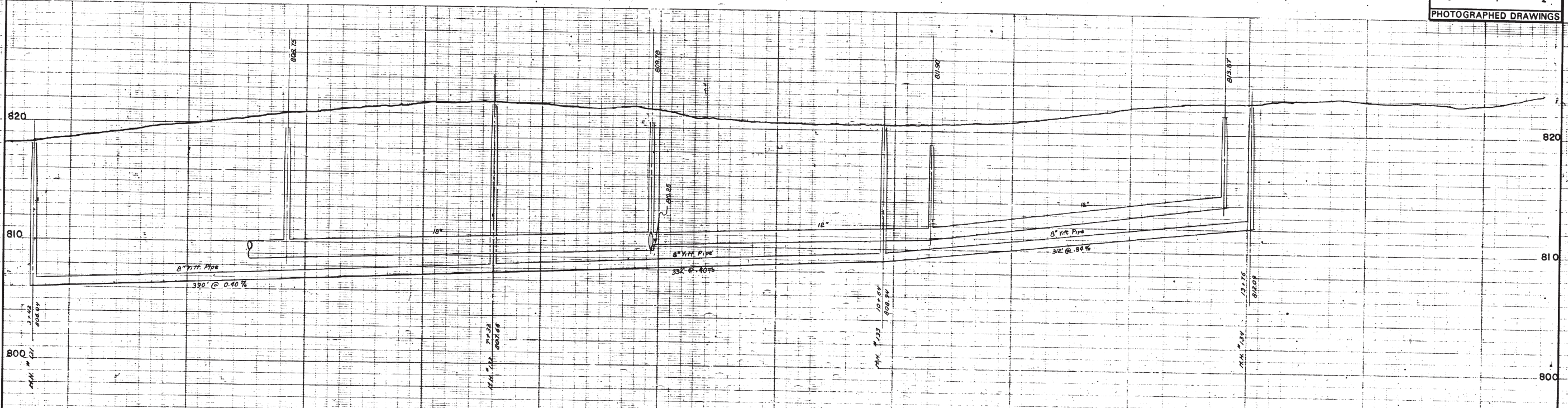
○	S	○	EXISTING SANITARY SEWER
●	S	○	PROPOSED SANITARY SEWER
○	R	○	EXISTING STORM SEWER
●	R	○	PROPOSED STORM SEWER
○	G	○	GAS LINE
○	W	○	WATER LINE

**REFERENCES**

DRAWINGS  
 PROFILES Bk. 746 Pg. 35, 36  
 BENCH MARKS  
 SAN. BUILT BY FORMER CITY OF EAST ANN ARBOR IN 1955

REFERENCE LINE FOR  
 TWO INCHES

PHOTOGRAPHED DRAWINGS



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

DR BY	DATE	SHEET NO.	INDEX NO. 4449	SHELF NO.	STORM AND SANITARY SEWERS
TR BY EWS	1/18/59				
CH BY			6-C-2517		
REVISIONS					
SCALE: HORIZONTAL 1" = 40'			FROM 500' NORTH OF NORWOOD TO PACKARD RD.		
VERTICAL 1" = 4'					
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN			FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS		













**Legend**

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

71-70682 (Manhole ID)

5.07 (Manhole Depth)

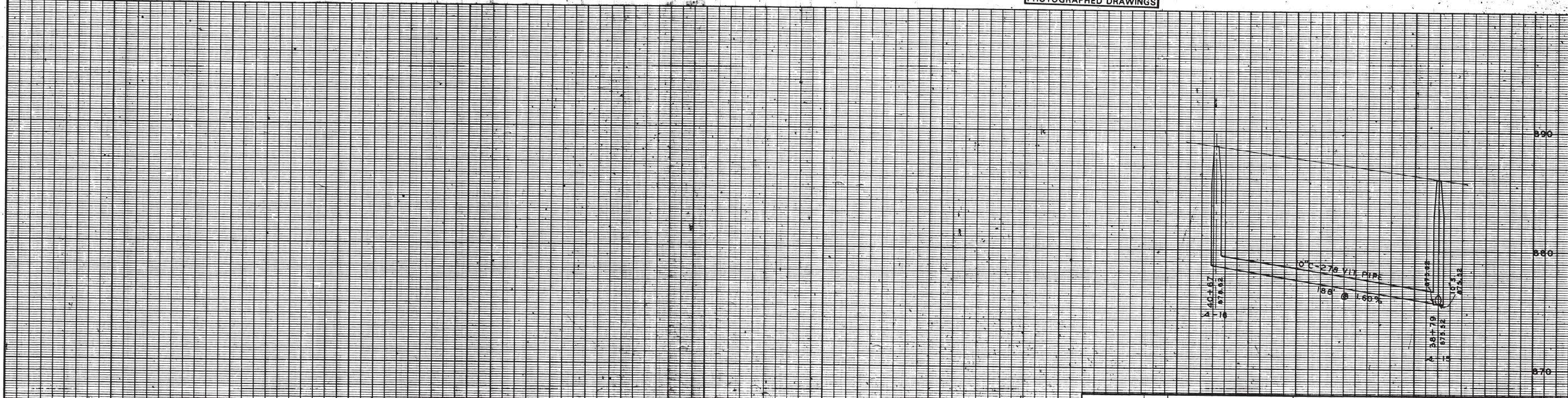
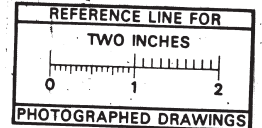
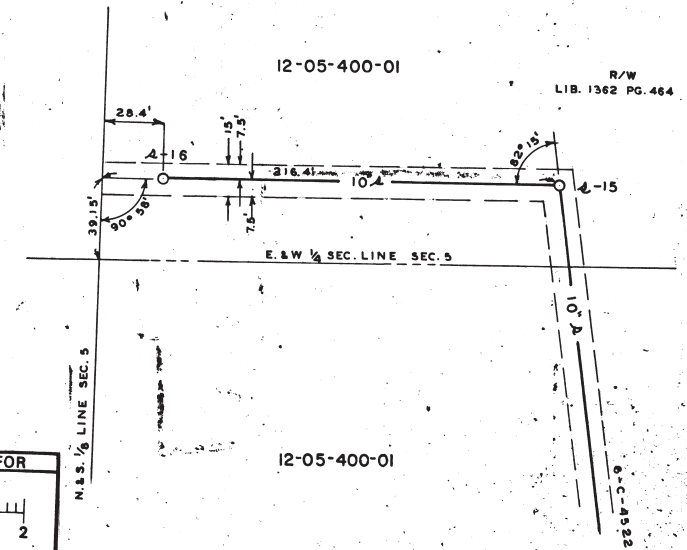
# South State/ UM Crosslot

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POST 506A



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By: DSK  
Despatched: YES  
Vector:  
O.C.R.:

DR. BY DON	DATE 12/69	SHEET NO.	INDEX NO. 6646
TR. BY L.F.S.	1/72	SHELF NO.	
CH. BY		6C-4523-S	
REVISIONS			
A.S. BLT. L.F.S.	2/72	SCALE: HORIZONTAL 1"=40' VERTICAL 1"=4'	

SANITARY AND STORM SEWER  
**CROSSLOTS**  
THRU EDWARDS BROTHERS TO  
WEST LINE OF EDWARD BROTHERS  
FREDRICK A. MAMMEL  
SUPERINTENDENT OF PUBLIC WORKS

PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN

**LEGEND:**

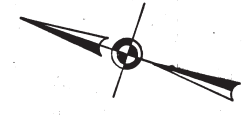
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—●—●—	PROPOSED SANITARY	—●—●—	PROPOSED STORM	—W—	EXISTING WATER
—	CENTER LINE	---	RIGHT PROPERTY LINE		
---	LEFT PROPERTY LINE				

**REFERENCES:** BENCH MARK CITY 39-831.20  
DRAWINGS M.D.P.H. PERMIT NO. 700505 9/14/70  
FIELD BOOK 915

JOB 43-668	DIST. 410	PREPARED BY
JOB	DIST.	APPROVED BY
JOB	DIST.	
JOB	DIST.	

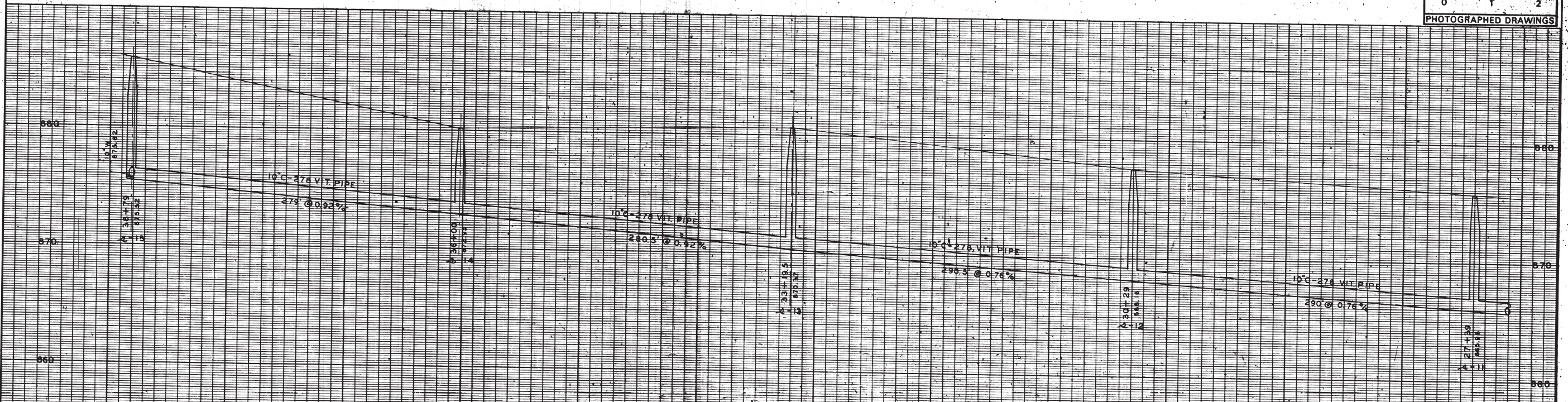
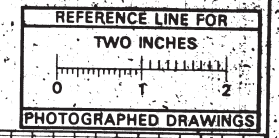
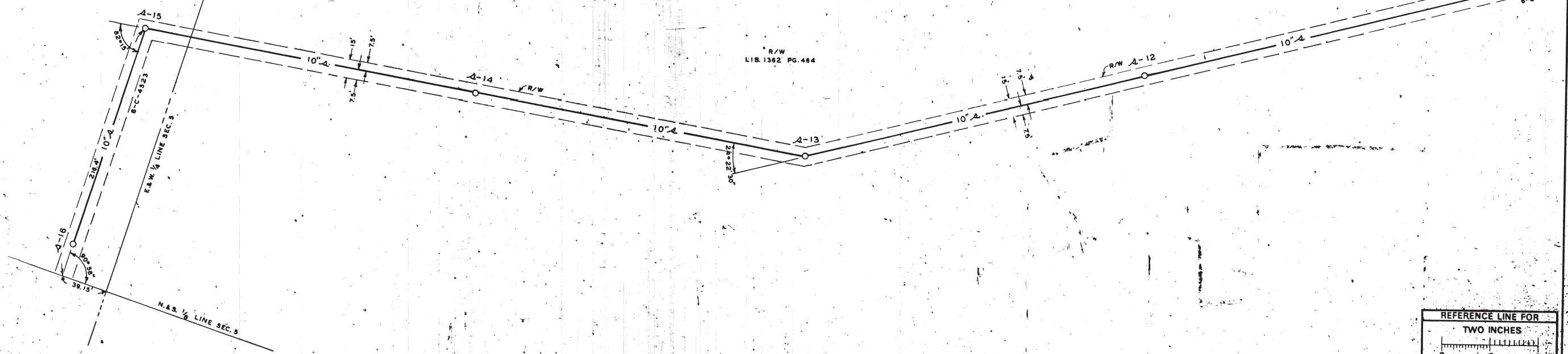


POST 5964



12-05-400-01

12-05-400-01



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 Dispatched: YES  
 Vector:  
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DR. BY	DATE	SHEET NO.
DOON	12/69	6845
TR. BY	INDEX NO.	1/72
L.F.S.	1/72	
CH. BY	REVISIONS	
	AS BLT. L.F.S.	2/72

SANITARY AND STORM SEWER  
**CROSSLOTS**  
 THRU EDWARDS BROTHERS PROPERTY  
 FREDRICK A. MAMMEL  
 SUPERINTENDENT OF PUBLIC WORKS

**LEGEND:**

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

**REFERENCES:** BENCH MARK CITY #39-831.20 PROFILES BY  
 DRAWINGS M.D.P.H. PERMIT NO. 700505 FIELD BOOK 915  
 9/14/70

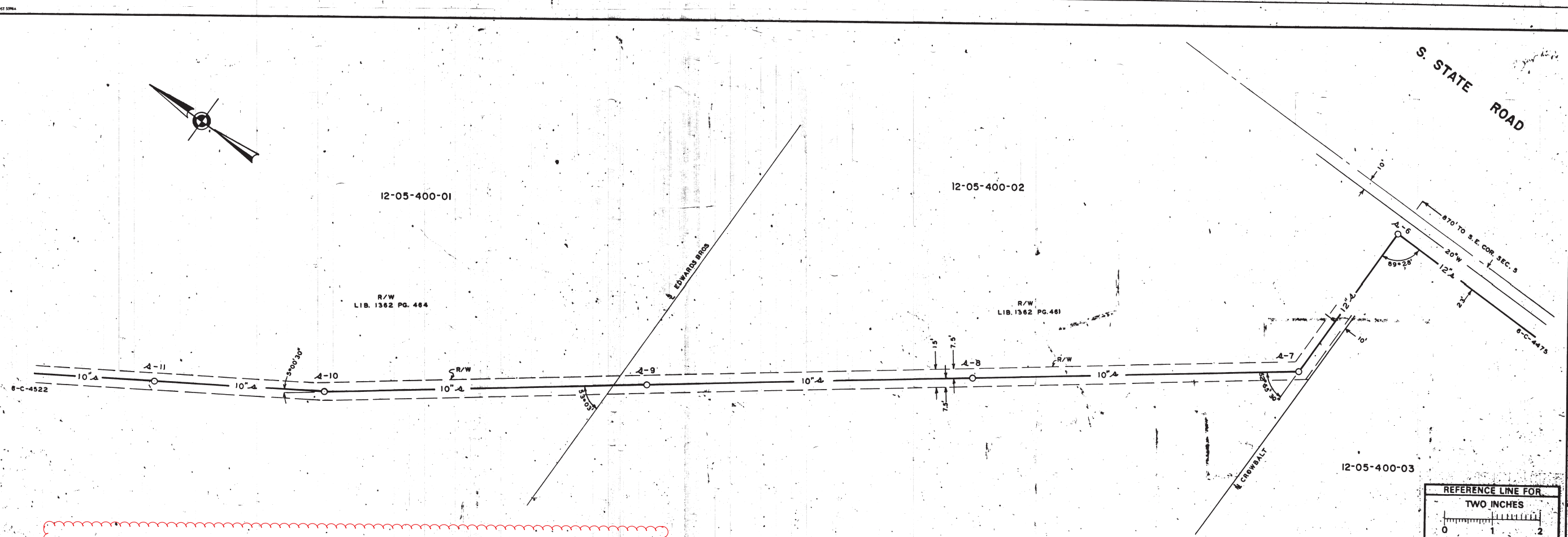
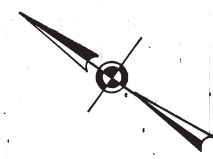
**6C-4522-S**

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

JOB 43-688	DIST. 410
JOB	DIST.
JOB	DIST.
JOB	DIST.

PREPARED BY  
 APPROVED BY





DR. BY: DON	DATE: 12/69	SHEET NO.:
TR. BY: L.F.S.	INDEX NO.:	6844
CH. BY:	REVISIONS:	AS BLT. L.F.S. 2/72
6C - 4521 - S		
SCALE: HORIZONTAL 1"=40'		
VERTICAL 1"=4'		

SANITARY AND STORM SEWER  
**CROSSLOTS**  
 S. STATE TO 1200 FT. NW'LY.  
 FREDRICK A. MAMMEL  
 SUPERINTENDENT OF PUBLIC WORKS

**LEGEND:**

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

**REFERENCES:** BENCH MARK CITY #39-831.20  
 DRAWINGS FIELD BOOK 915  
 M.D.P.H. PERMIT NO. 700505 9/14/70

**PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN**

JOB 43-688 SAN.	DIST. 410
JOB	DIST.
JOB	DIST.
JOB	DIST.

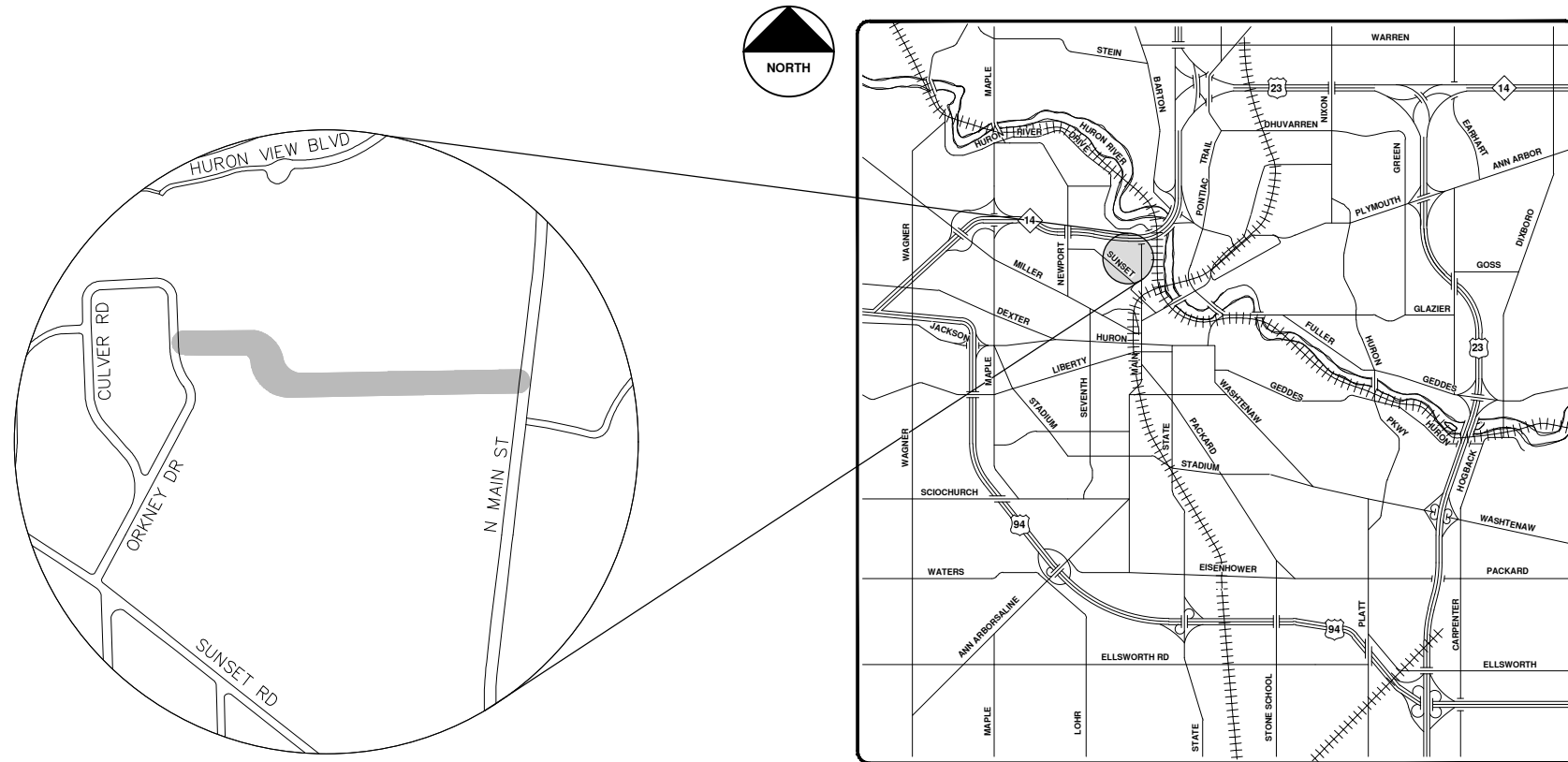
PREPARED BY \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_





# 2018 SANITARY SEWER LINING

## ORKNEY TO N MAIN



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg --\_a2 standard bw.stb -- Plot Date: 4/27/2018 9:46:54 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

**811**  
 Know what's below.  
 Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	5-3-18	DPF	INK

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE

DRAWING No. 2017032-57

SHEET No. 57 OF 130

© 2018 SANITARY SEWER LINING; LOCATION:ORKNEY TO N MAIN; 2017032



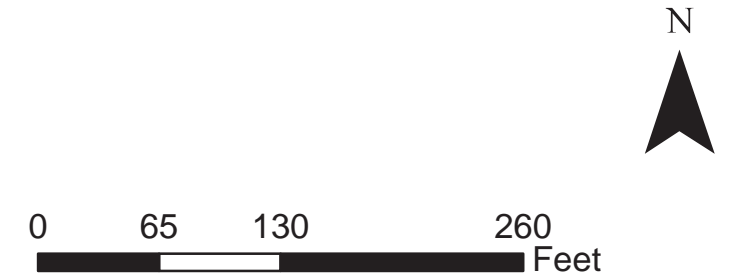


- Legend**
- Proposed Lining
  - Lined Pipe
  - Sanitary Main
  - Sanitary Lateral, Abandoned
  - Sanitary Lateral
  - x-x-x- Sanitary Lateral, Plugged
  - Manhole

71-70682 (Manhole ID)  
 5.07 (Manhole Depth)

# Orkney to N Main

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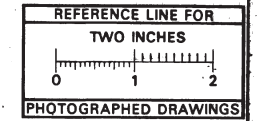
12Washtenaw County



### HURON HEIGHTS ADDITION (UNPLATTED)

#### LEGEND

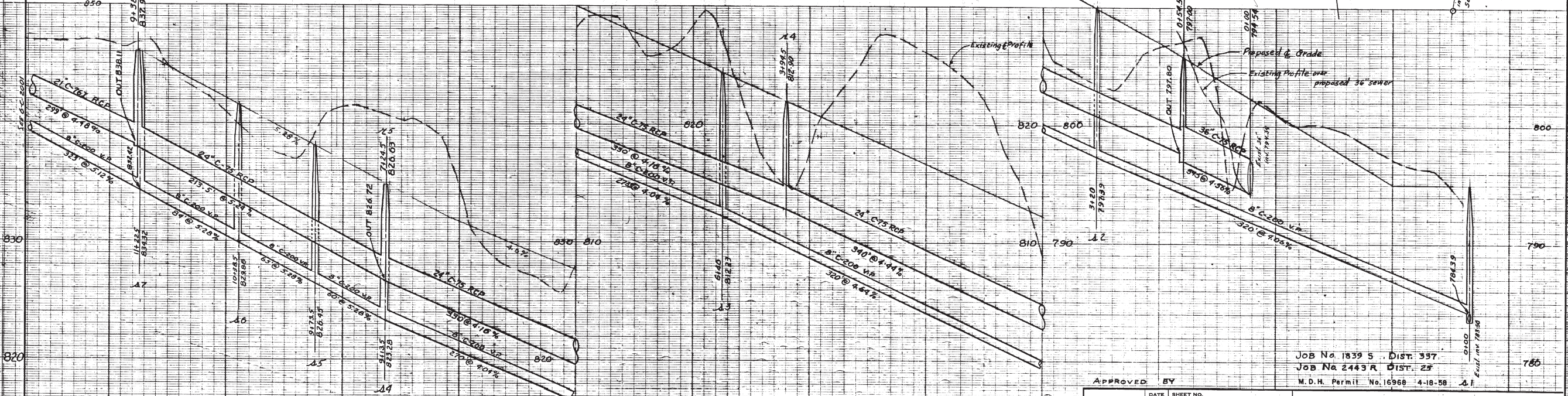
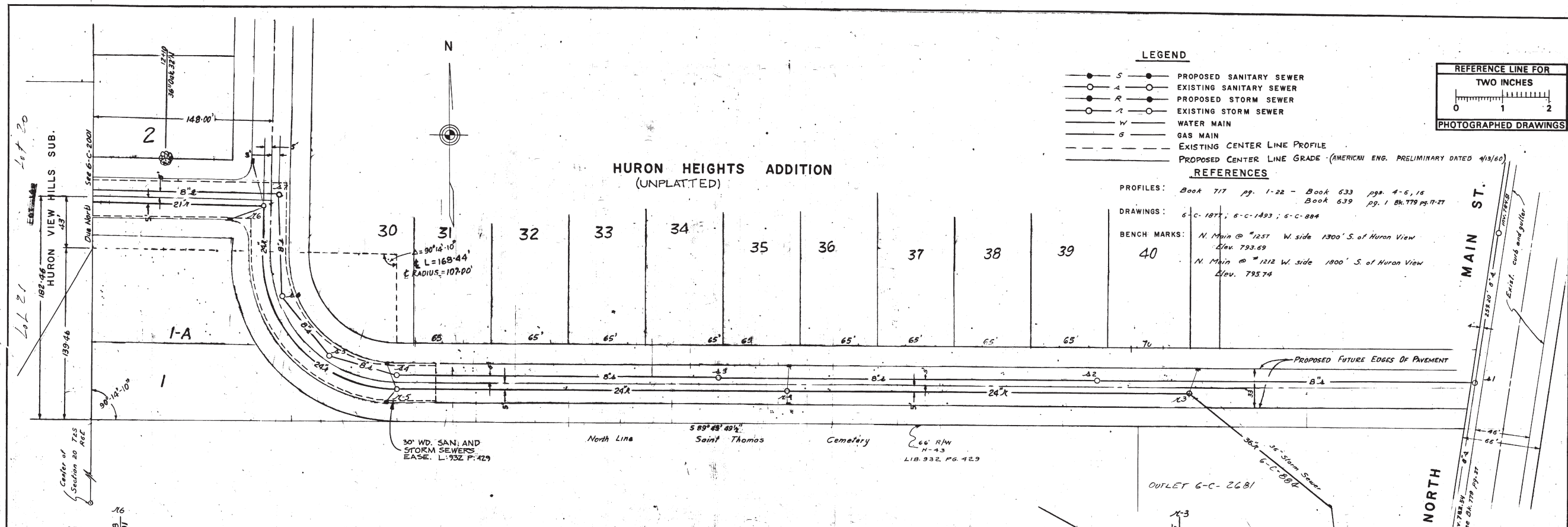
- S ● PROPOSED SANITARY SEWER
- A ○ EXISTING SANITARY SEWER
- R ● PROPOSED STORM SEWER
- T ○ EXISTING STORM SEWER
- W — WATER MAIN
- G — GAS MAIN
- — EXISTING CENTER LINE PROFILE
- — PROPOSED CENTER LINE GRADE (AMERICAN ENG. PRELIMINARY DATED 4/15/60)



**PROFILES:** Book 717 pg. 1-22 - Book 633 pgs. 4-6, 16  
Book 639 pg. 1 Bk. 779 pg. 17-27

**DRAWINGS:** 6-C-1877; 6-C-1893; 6-C-884

**BENCH MARKS:** N. Main @ 1257 W. side 1300' S. of Huron View  
Elev. 793.69  
N. Main @ 1212 W. side 1800' S. of Huron View  
Elev. 795.74



Job No. 1839 S DIST. 357  
Job No. 2443 R DIST. 25  
M.D.H. Permit No. 16968 4-18-58

APPROVED BY		DATE	SHEET NO.
DR. BY G.W.C.		7-58	INDEX NO. 3832
TR. BY			SHELF NO.
CH. BY A.A.M.		2-59	
REVISIONS			
Profile & Topo: J.K.K. 1-58			
Storm Sewer: D.K.L. 3-58			
San. Sewer: J.A. 11-58			
<b>6-C-2002</b>		SCALE: HORIZONTAL 1" = 40'	
		VERTICAL 1" = 4'	
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN		STORM and SANITARY SEWERS	
FROM MAIN ST. TO E.P. LINE OF		CROSSLOTS	
HURON VIEW SUB'N.		FREDRICK A. MAMMEL	
		SUPERINTENDENT OF PUBLIC WORKS	

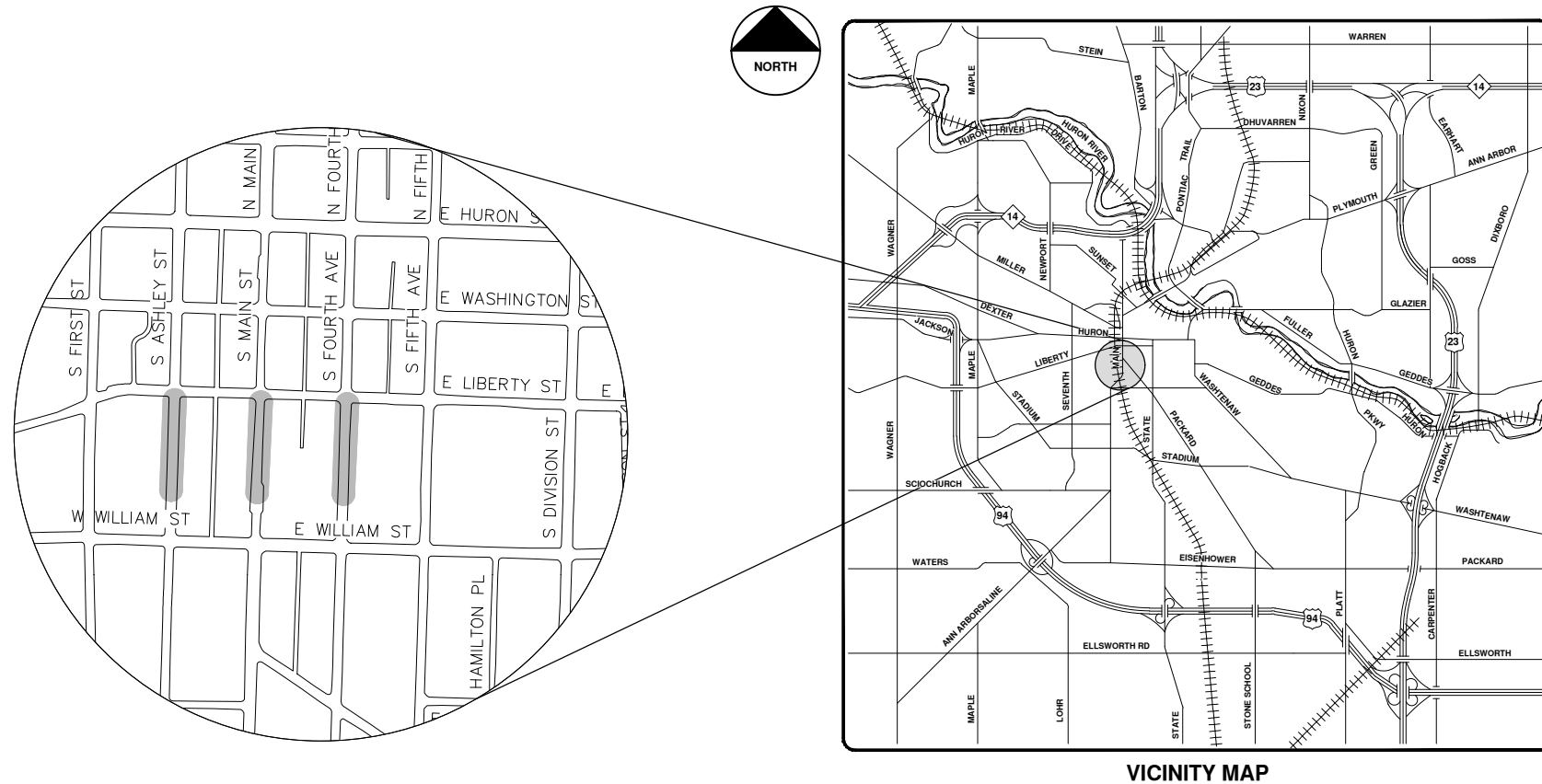
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DRAWN BY S-1b-05  
CHK  
REPRODUCED  
NOTED  
DATE






# 2018 SANITARY SEWER LINING

## ASHLEY, MAIN & FOURTH FROM WILLIAM TO LIBERTY



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg - \_a2 standard bw.stb - Plot Date: 4/27/2018 9:46:55 AM



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 301 EAST HURON STREET, P.O. BOX 8647  
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 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, MI 48107-8647 www.a2gov.org	
SCALE	DRAWING No.	DESCRIPTION	REV.
	2017032-60	BID SET	00
SHEET No.	DATE	DRAWN	CHECKED
60 OF 130	5-3-18	DPF	IVK

© 2018 SANITARY SEWER LINING; LOCATION:ASHLEY, MAIN & FOURTH FROM WILLIAM TO LIBERTY; 2017032





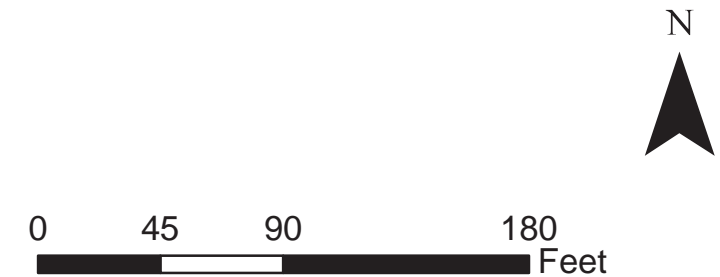
**Legend**

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

71-70682 (Manhole ID)  
5.07 (Manhole Depth)

# Ashley, Main & Fourth From William to Liberty

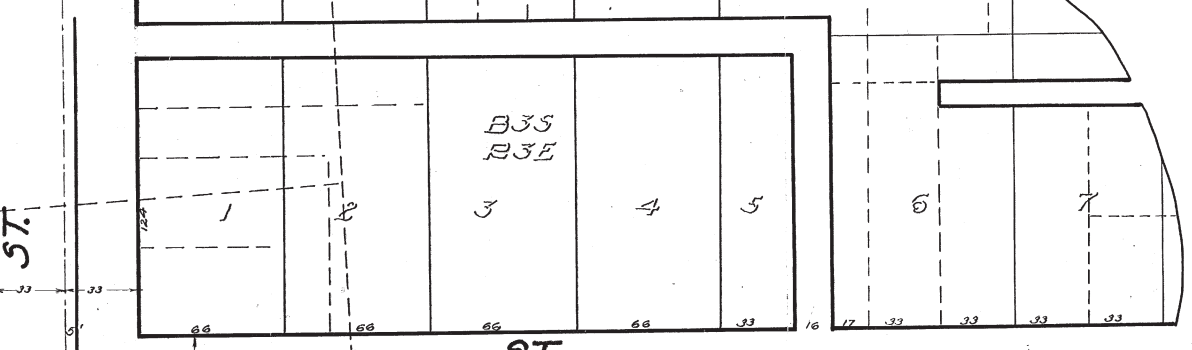
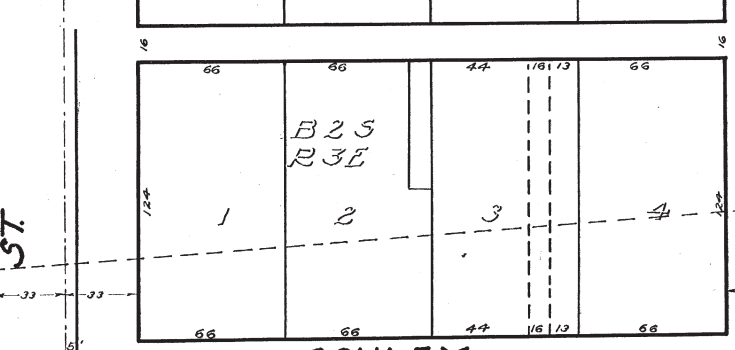
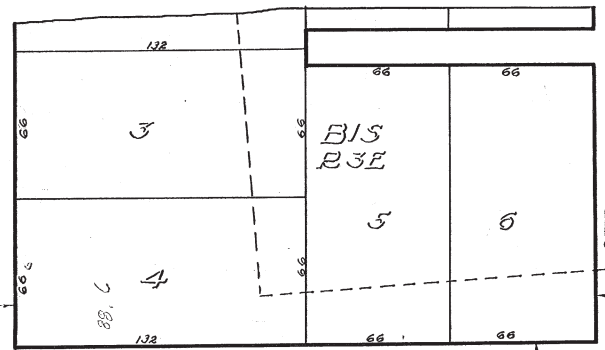
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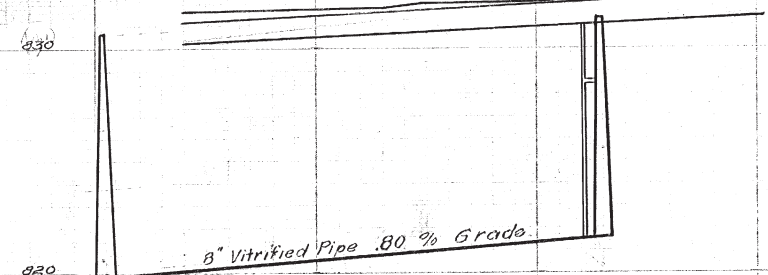
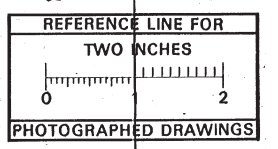
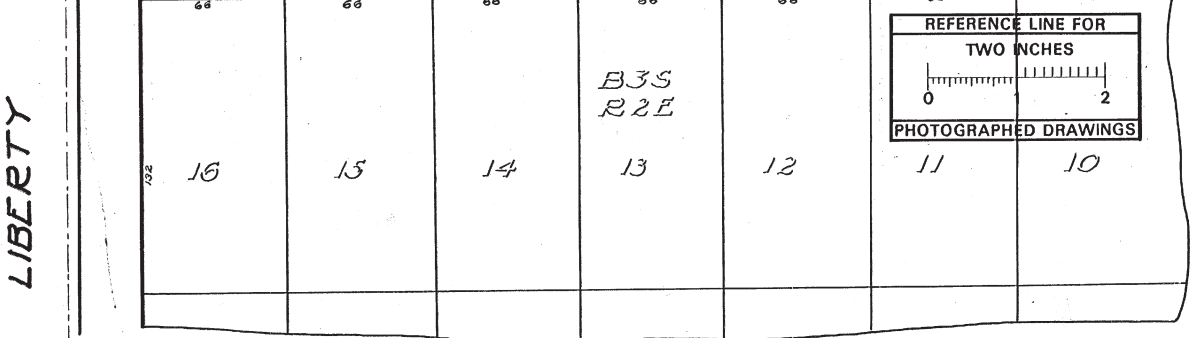
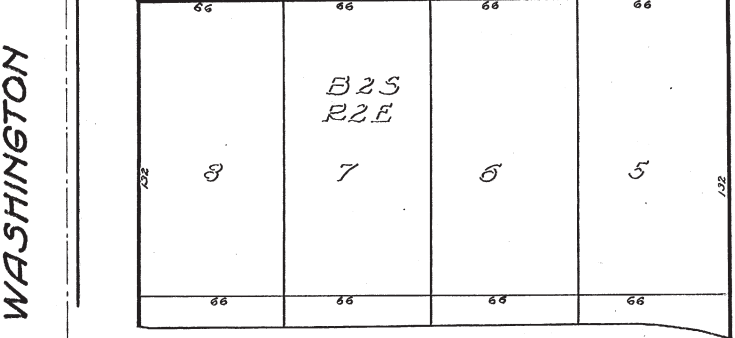
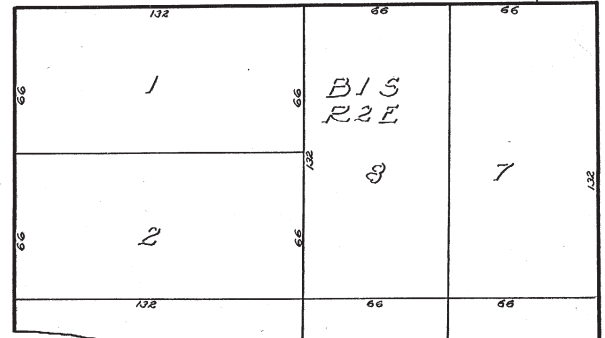
Washtenaw County



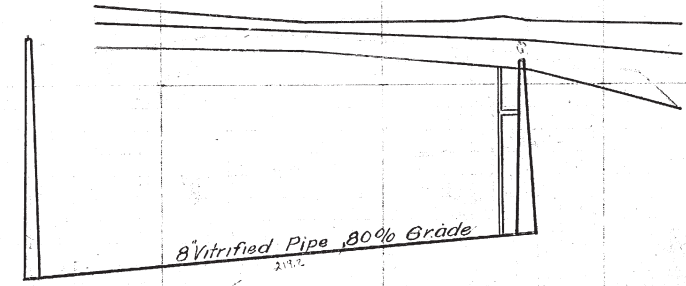
HURON ST.



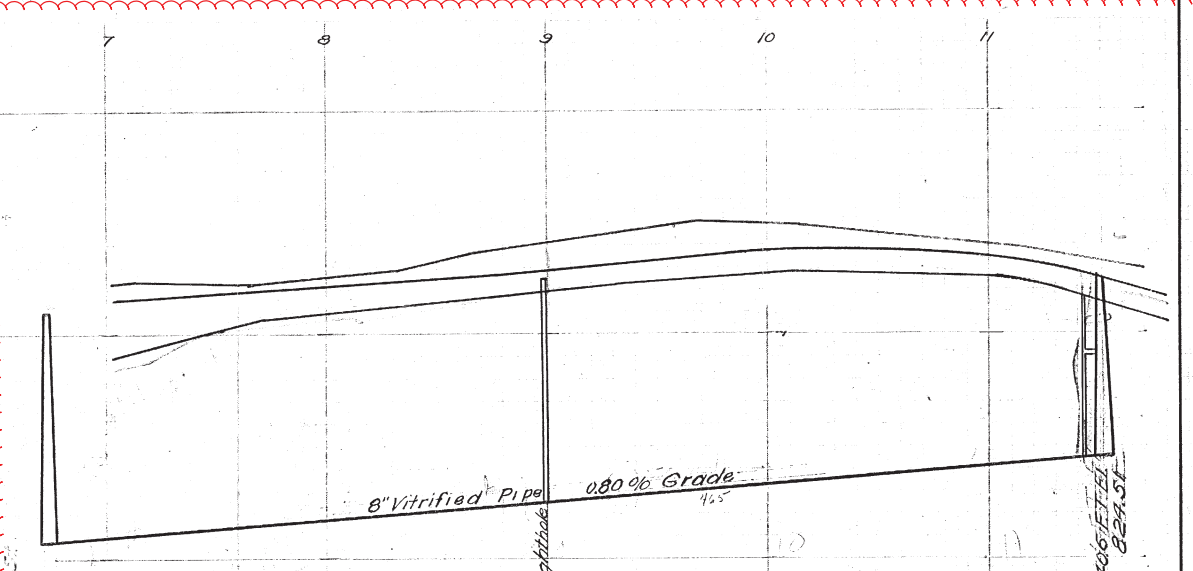
HURON



MEASUREMENTS TO HOUSE CONNECTIONS  
0' M.H. at Huron  
EAST WEST  
88.6 82.6  
130.4 128.4  
187.7 192.7  
230' FT.



8" Vitrified Pipe .80% Grade



8" Vitrified Pipe .80% Grade

MEASUREMENTS TO HOUSE CONNECTIONS  
0' M.H. at Liberty St.

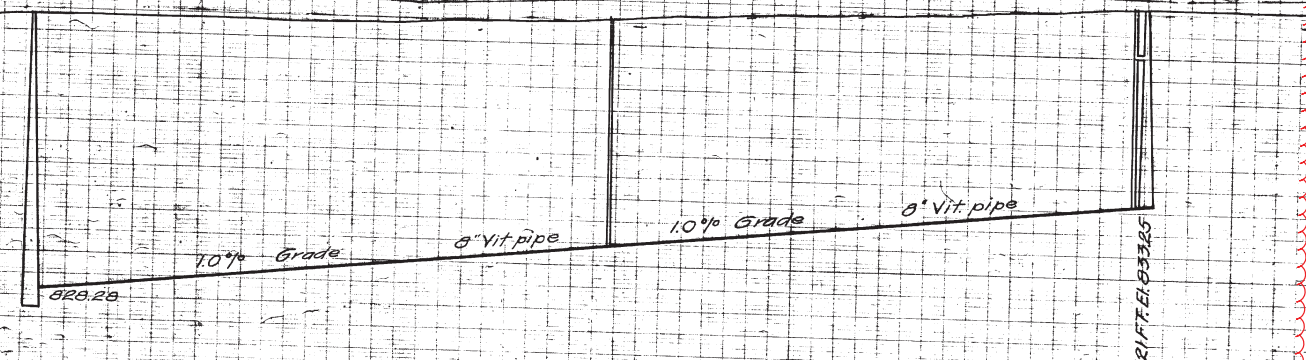
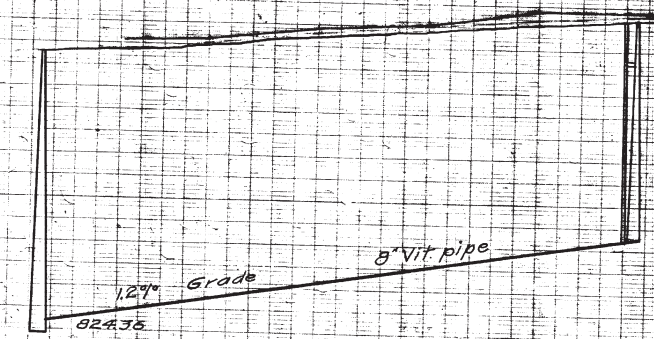
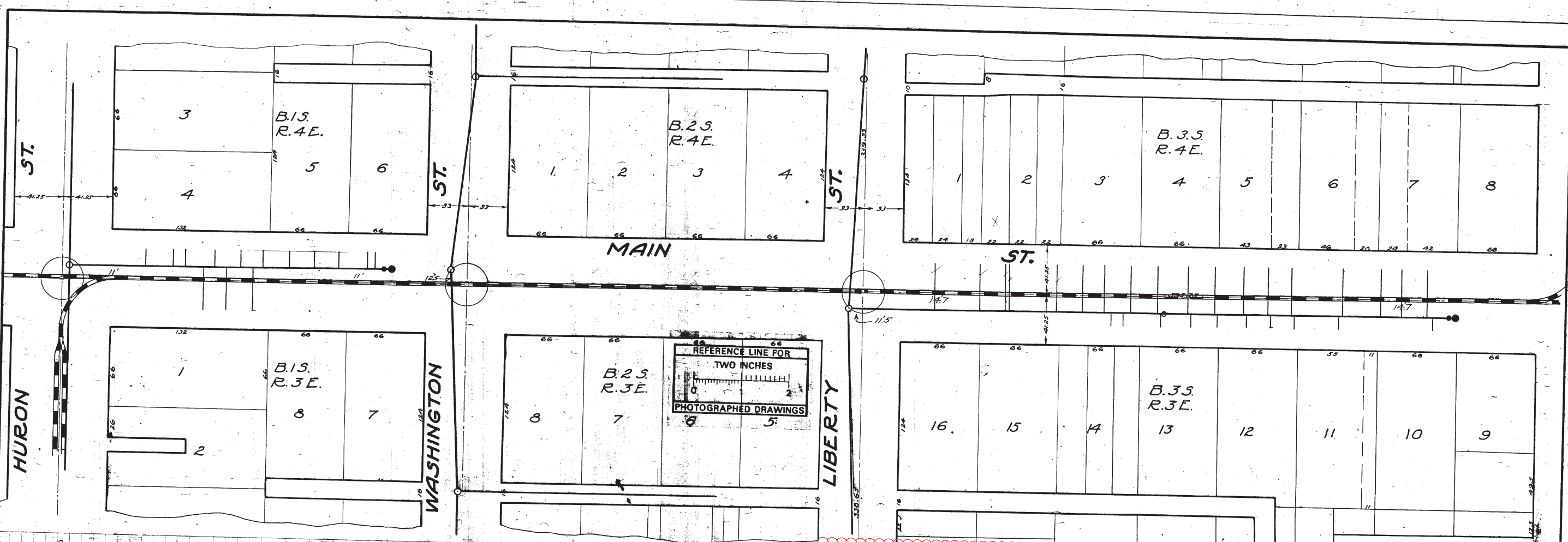
EAST	WEST
114.0	120.0
148.0	203.5
172.0	
201.0	
225' FT.	
0' M.H. at Liberty St.	
57.8	91.0
93.0	128.8
119.0	162.5
134.7	207.4
155.8	233.4
322.4	333.0
341.7	372.3
403.8	403.0
226.3 L.H.	
463.0 FT.	

SHEET No 31  
INDEX NO 738  
SHELF No. 6  
SIZE 6  
SUB No. 125  
Drawn by A.A.B.  
Traced by A.A.B.  
Checked by

CITY ENGINEER'S OFFICE.  
ANN ARBOR, MICH.  
PLAN AND PROFILE  
OF  
SANITARY SEWER  
**ASHLEY ST.**  
HURON ST. TO WILLIAM ST.  
Manley Osgood, City Engineer.  
1916.  
Scales-Plan 1"=40' Profile Hor. 1"=40' Ver. 1"=4'

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





MEASUREMENTS TO HOUSE CONNECTIONS

0-MH at Huron St.

East	West
53.2	112.6
65.6	121.2
98.6	159.4
120.6	
141.8	
161.4	
182.6	
208.3	
224.2	
240.4	
254.4	
269.1 FT.	

0-MH at Liberty St.

71.0	179.0
109.0	228.0
150.0	287.0
178.0	307.5
194.5	331.0
215.0	352.0
234.5	371.0
251.5	408.0
268.8	466.5
305.5	
324.0	
350.0	
369.0	
412.5	
444.0	
464.5	
482.0	502.0 FT.

703 M.H. E.I. 823.86

754 M.H. E.I. 828.50

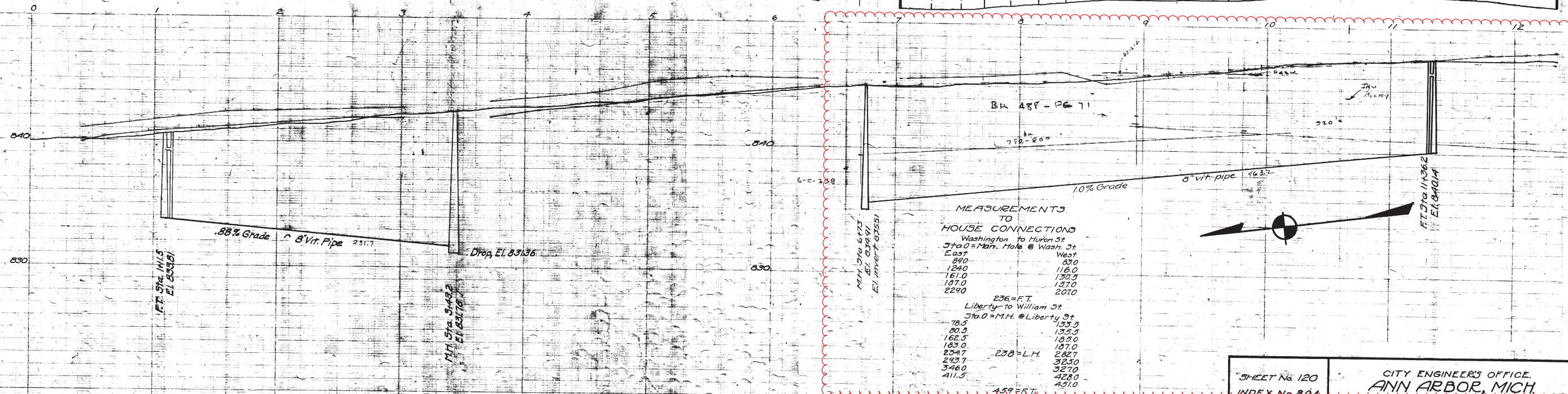
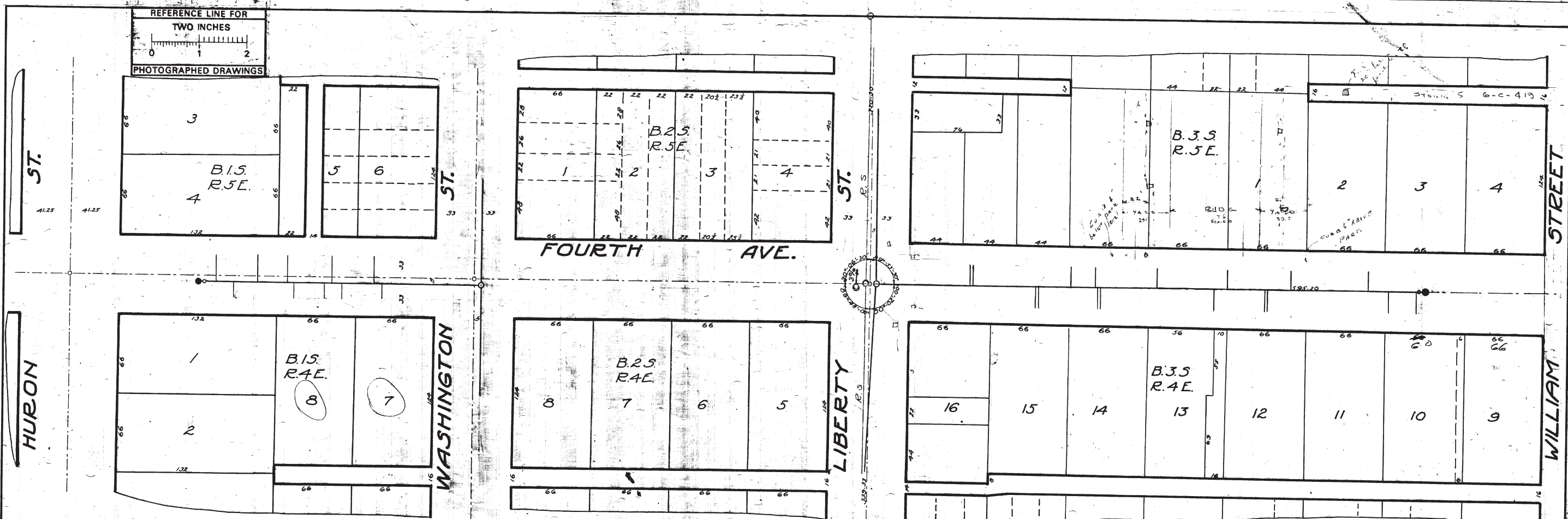
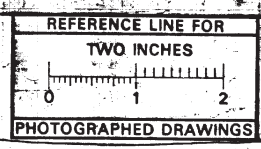
759 M.H. E.I. 827.42

761 M.H. E.I. 833.85

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

<p>SHEET No. 208 INDEX No. 577 SHEET No. 6 SIZE C SUB. No. 261</p> <p>Drawn by: H.H.P. Traced by: " Checked by: "</p>	<p>CITY ENGINEER'S OFFICE. ANN ARBOR, MICH.</p> <p>PLAN AND PROFILE OF SANITARY SEWER</p> <p><b>MAIN ST.</b> HURON ST. TO WILLIAM ST.</p> <p>Manley Osgood, City Engineer. 1916.</p> <p>Scales-Plan 1"=40'. Profile-110' = 40'. Ver. 1"=4'</p>
---	--





MEASUREMENTS TO HOUSE CONNECTIONS

Washington to Huron St	
Sta. 0 = M.H. @ Wash. St	
East	West
840	830
1240	1160
1610	1305
1870	1270
2290	2070
236 = F.T.	
Liberty to William St	
Sta. 0 = M.H. @ Liberty St	
78.5	133.5
80.5	135.5
162.5	195.0
185.0	187.0
234.7	285.7
243.7	325.0
346.0	327.0
411.5	428.0
459 = F.T.	
451.0	



Digital Status  
Scanned On: 8-24-24  
By: DCK  
Despeckled: Yes  
Vectors:  
O.C.R.:

SHEET No. 120  
INDEX No. 804  
SHELF No. 0  
SIZE C  
SUB No. 189

CITY ENGINEER'S OFFICE  
**ANN ARBOR, MICH**  
PLAN AND PROFILE  
OF  
SANITARY SEWER  
**FOURTH AVE.**  
HURON ST. TO WILLIAM ST.  
Manley Osgood, City Engineer  
1916  
Scales - Plan, 1" = 40'; Profile - Hor. 1" = 40', Ver. 1" = 4'

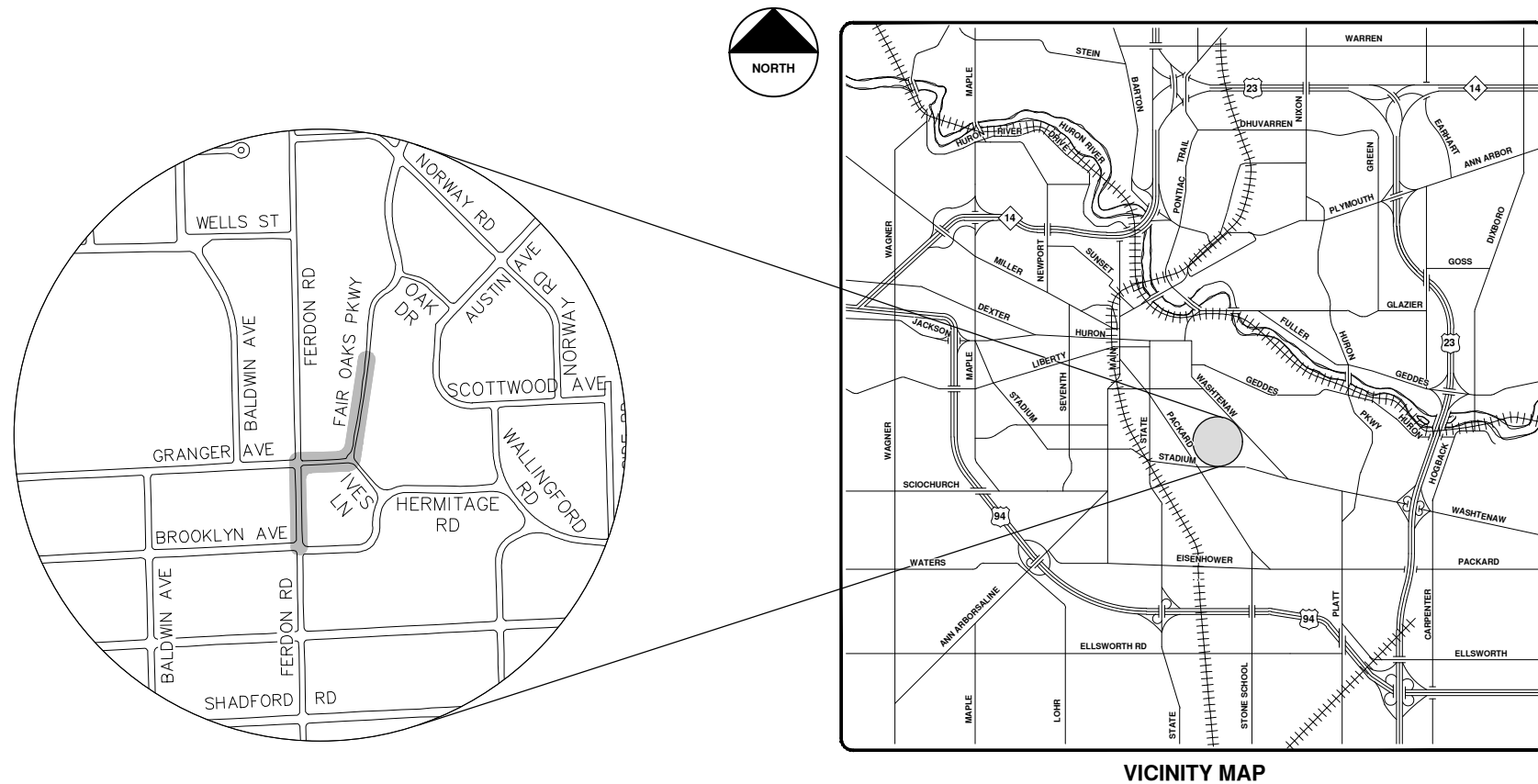
Drawn by A.B.  
Traced by A.B.  
Checked by J






# 2018 SANITARY SEWER LINING

## FERDON, FAIR OAKS PKWY AND IVES



VICINITY MAP

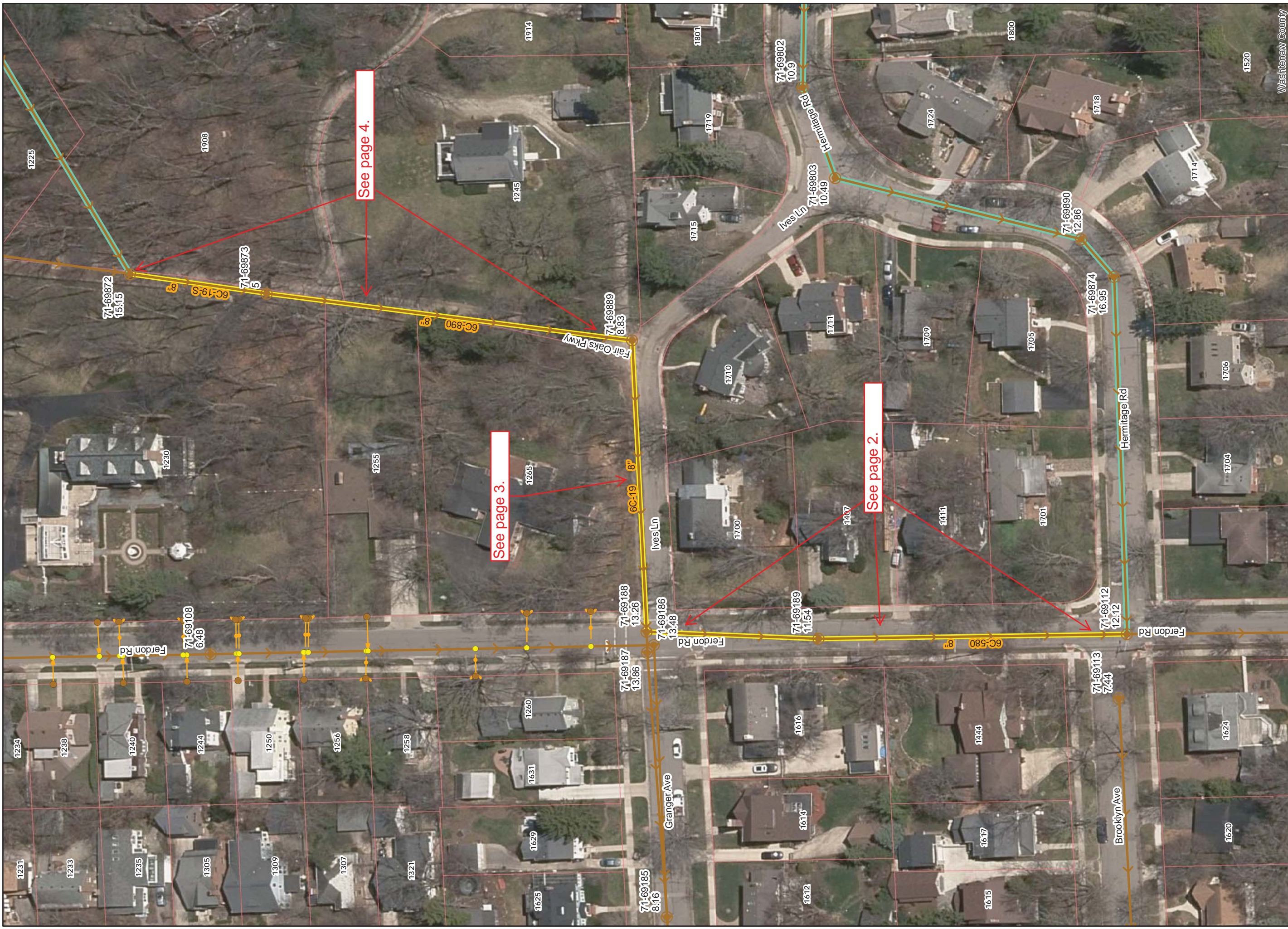
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**ENGINEERING**  
 CITY OF ANN ARBOR PUBLIC SERVICES  
 301 EAST HURON STREET, P.O. BOX 8647  
 ANN ARBOR, MICHIGAN 48107-8647  
 734-794-6410 www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING		CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48107-8647 www.a2gov.org	
SCALE	DRAWING No.	DESCRIPTION	REV.
	2017032-65		
SHEET No.	5-3-18	DATE	INK
65 OF 130			CHECKED
			DRAWN
			DPF
			BID SET
			CO
			REV.





Washington County

**Legend**

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

71-70682 (Manhole ID)

5.07 (Manhole Depth)

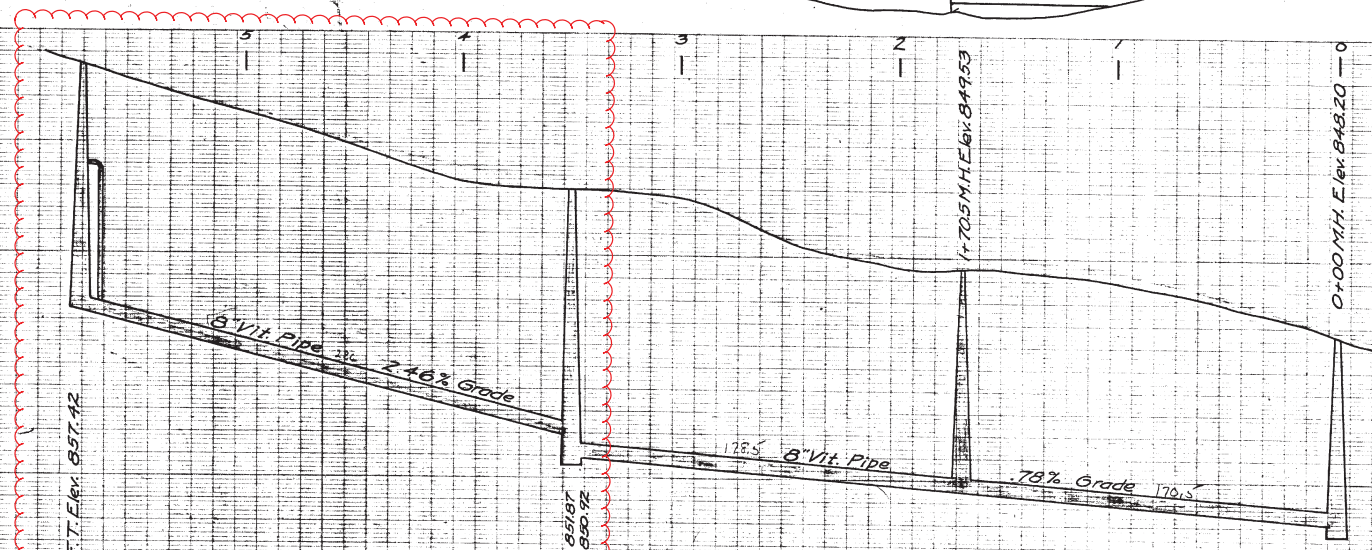
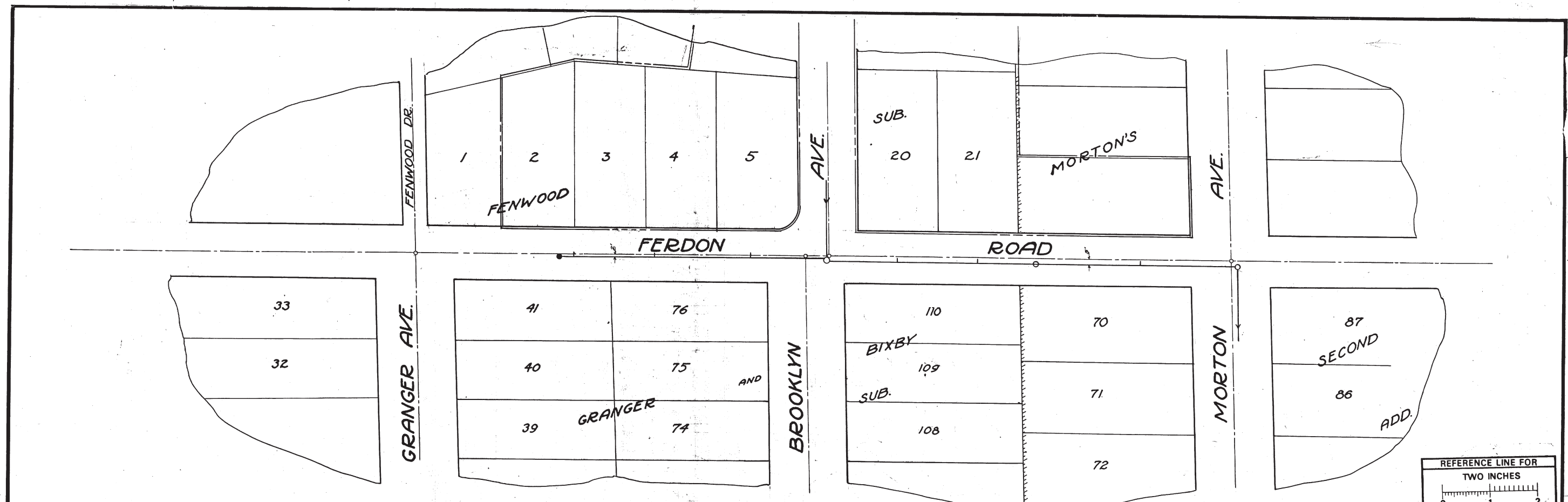


# Ferndon, Fair Oaks Pkwy and Ives

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MEASUREMENTS  
TO  
HOUSE  
CONNECTIONS  
Ys Only  
0+00 M.H. @ Morton Ave.

81.85	1+70.5 M.H.
220.3	
287	3+49 M.H.
411.75	
492.65	
561.4	575 F.T.

SHEET No.	CITY ENGINEER'S OFFICE
INDEX No. 1506	ANN ARBOR, MICH.
SHELF No. 6	PLAN AND PROFILE
SIZE C	OF
SUB. No. 580	SANITARY SEWER
	ON
	<b>FERDON ROAD</b>
	MORTON TO GRANGER
Drawn By	Geo. H. Sandenburgh City Engineer
Traced By	
Checked By	
Scale: Plan 1"=40'	Prof. Vert. 1"=4'

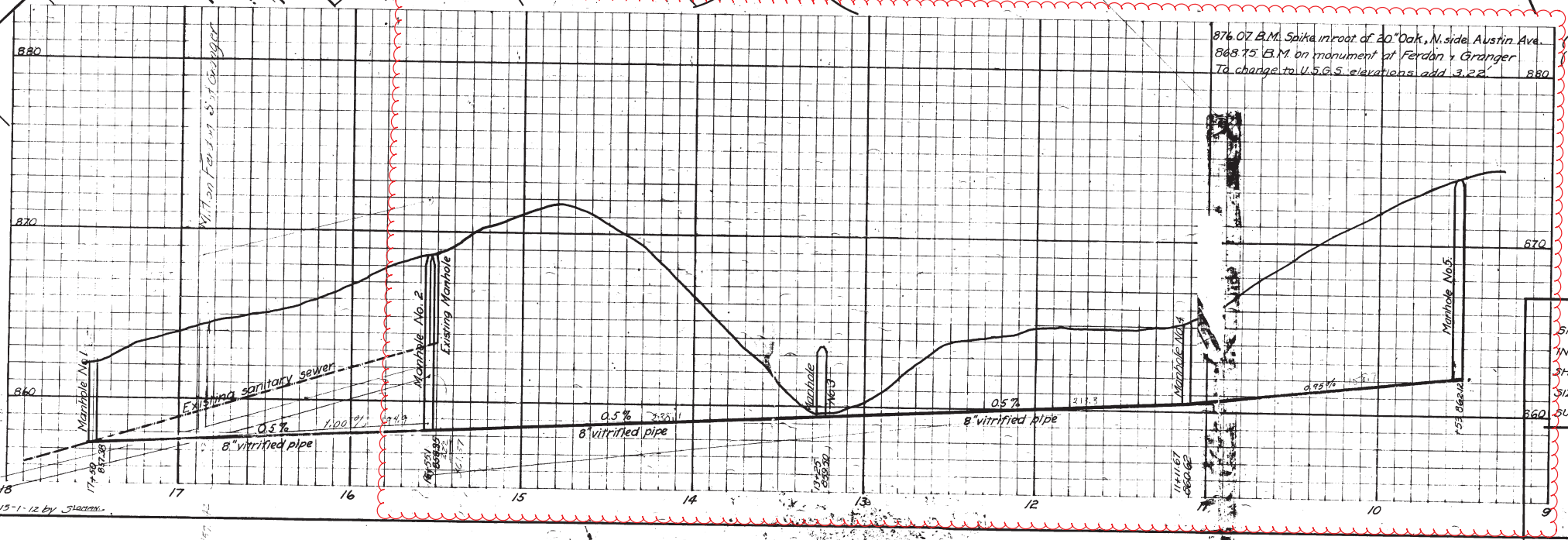
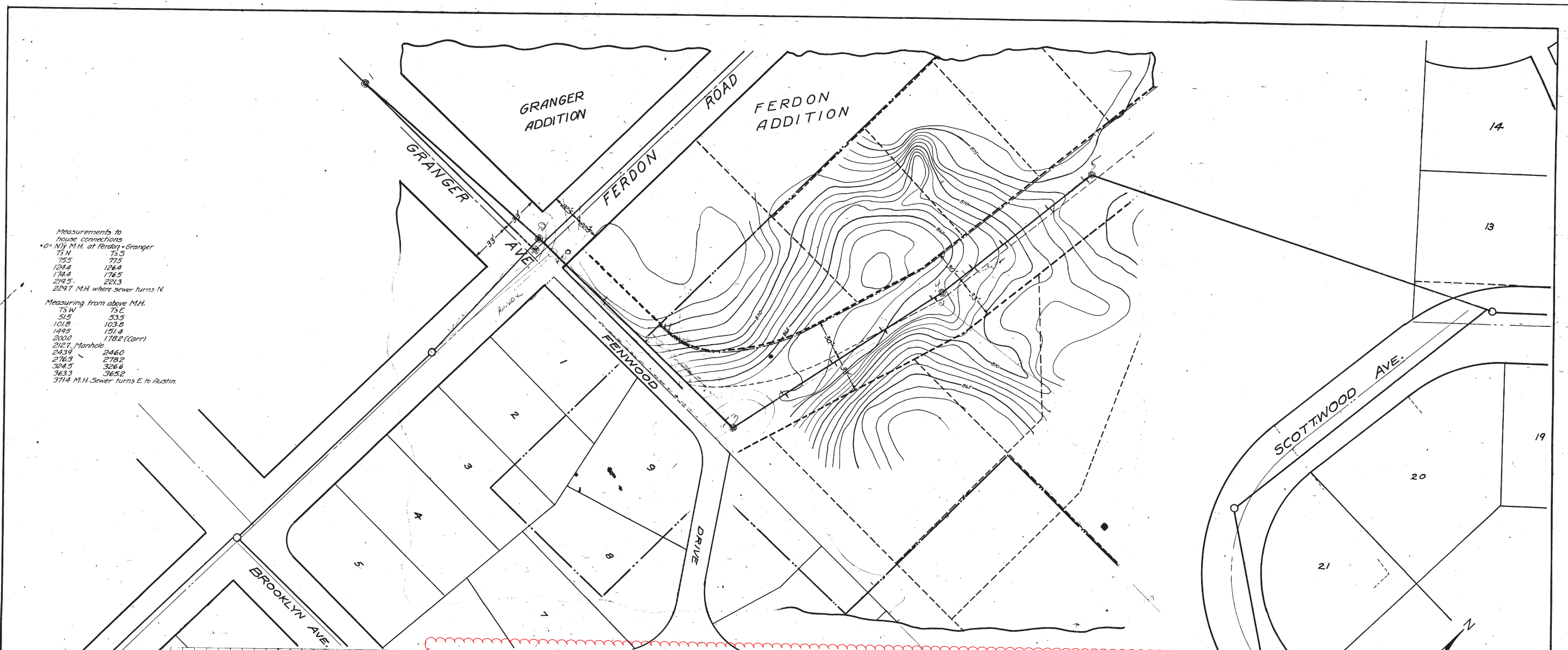
Digital Status  
Scanned On: 2-22-08  
By: DGE  
Despeckled: Yes  
Vector: Yes  
O.C.R.:

ENGINEER'S OFFICE  
ANN ARBOR, MICH.



Measurements to house connections  
 • 0' N.Y. M.H. at Ferdon + Granger  
 75.5 77.5  
 124.4 126.4  
 174.4 176.5  
 219.5 221.5  
 289.7 M.H. where sewer turns N.

Measuring from above M.H.  
 75 W 75 E  
 31.5 53.5  
 101.8 103.2  
 149.5 151.4  
 200.0 178.2 (Carr)  
 212.7 Manhole 246.0  
 243.9 278.2  
 276.3 326.6  
 324.5 365.2  
 363.3 371.4 M.H. Sewer turns E to Austin



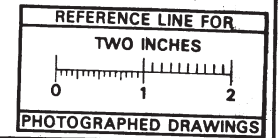
Digital Status  
 Scanned On: 8-25-04  
 By: DGK  
 Despeckled: Yes  
 Vectors:  
 O.C.R.:

Corrected to Final Measurements 1915-1-12 by S. J. ...

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.C.S. elevations add 3.22

(City Datum)

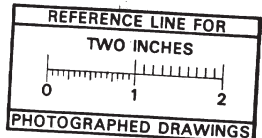
859.50  
 3.22  
 862.72



SHEET No. 34  
 INDEX No. 461  
 SHELF No. 6  
 SIZE C  
 SUB No. 19  
 V.M.O.

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





Digital Status  
 Scanned On: 3-1-05  
 By: DCK  
 Despeckled: Yes  
 Vector: O.C.R.

SHEET No. 1  
 INDEX No. 2393  
 SHELF No. 6  
 SIZE C  
 SUB No. 890  
 Revised Aug. 15 49  
 Drawn by  
 Traced by  
 Checked by

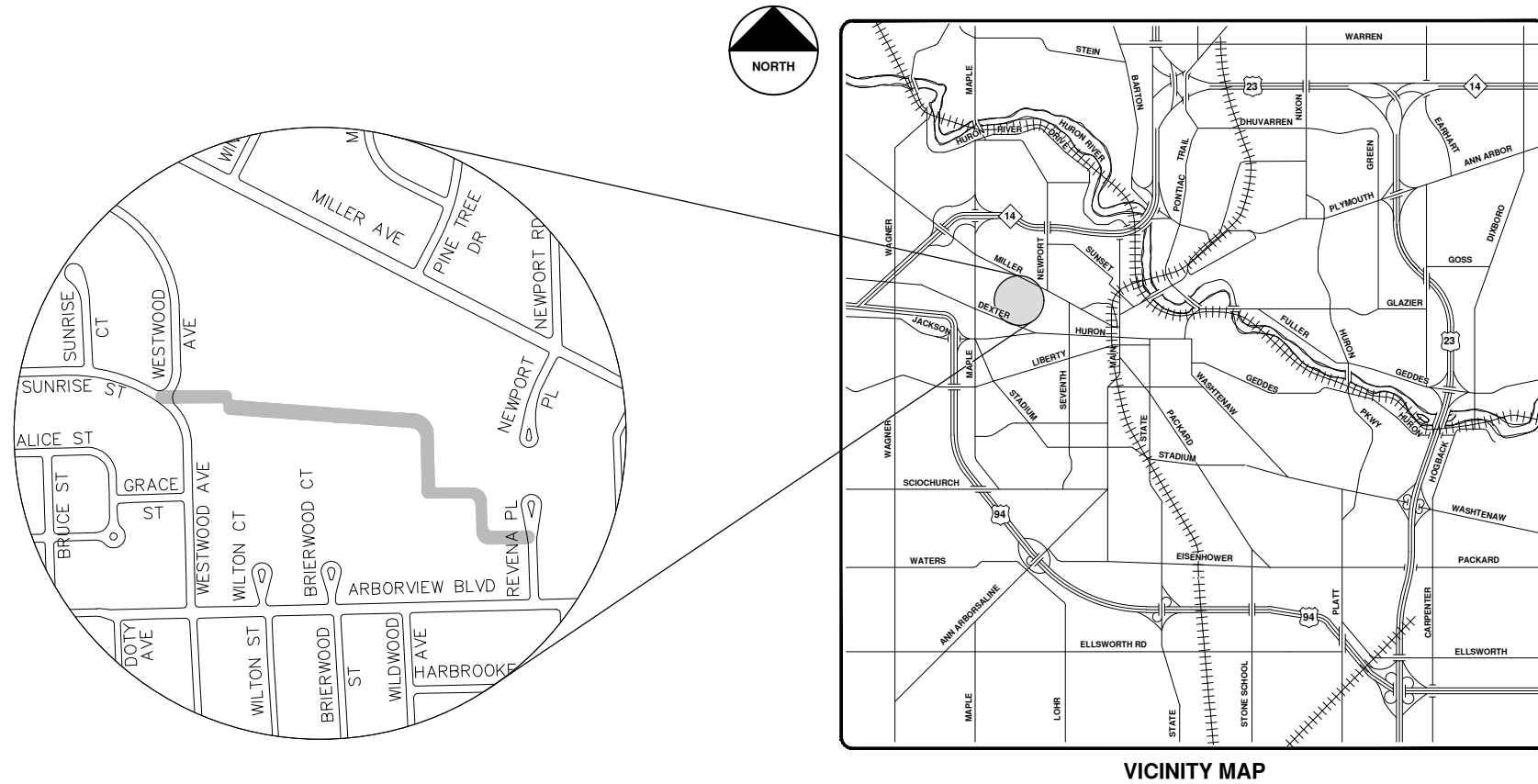
CITY ENGINEER'S OFFICE  
 ANN ARBOR, MICHIGAN  
 PLAN AND PROFILE  
 OF  
**FAIR OAKS Pkwy.**  
 FENWOOD DR. TO OAK LANE  
 Geo. H. Sandenburgh, City Engineer  
 1942  
 Scale: Plan 1" = 40', Vert. 1" = 4'






# 2018 SANITARY SEWER LINING

## MILLER NATURE AREA



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg - \_a2 standard bw.stb - Plot Date: 4/27/2018 9:46:57 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. 2017032-70  
 SHEET No. 70 OF 130

**311**  
 Know what's below.  
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	5-3-18	DPF	IVK

CITY OF ANN ARBOR  
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 ANN ARBOR, MI 48107-8647  
 ANN ARBOR 734-794-6410  
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**© 2018 SANITARY SEWER LINING; LOCATION: MILLER NATURE AREA; 2017032**





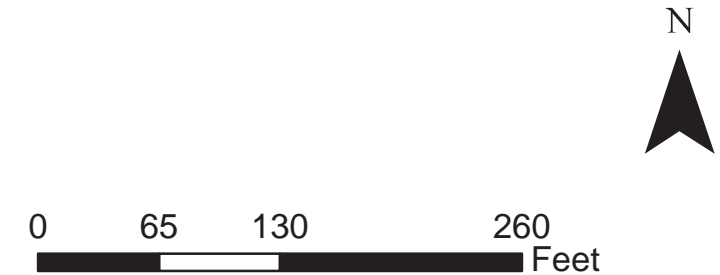
**Legend**

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

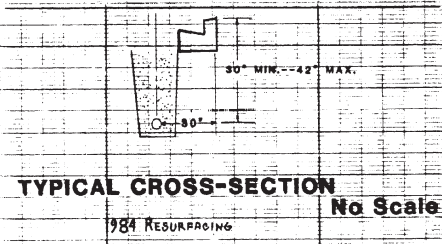
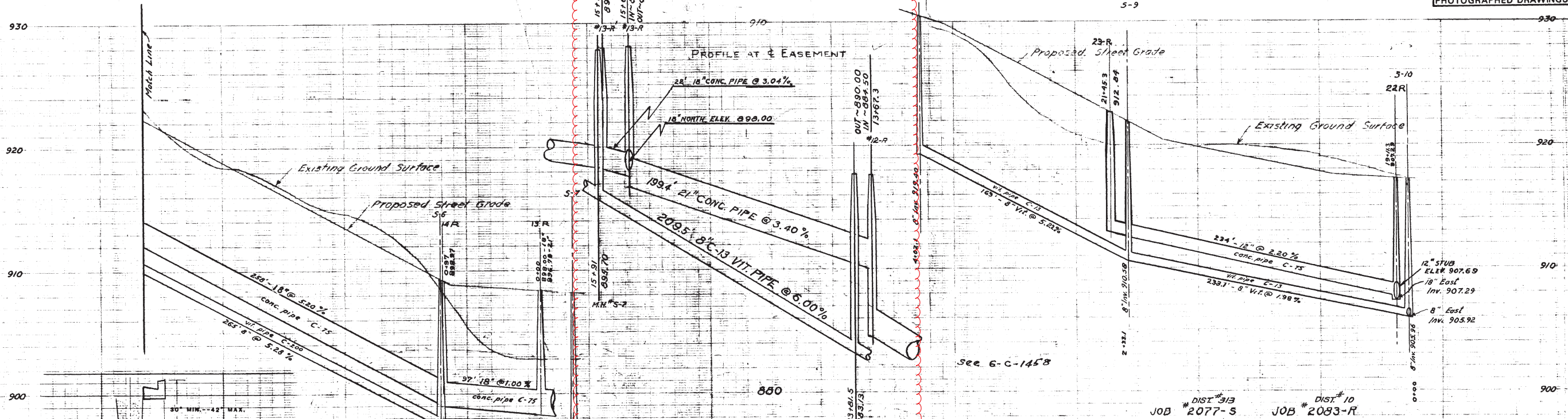
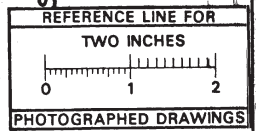
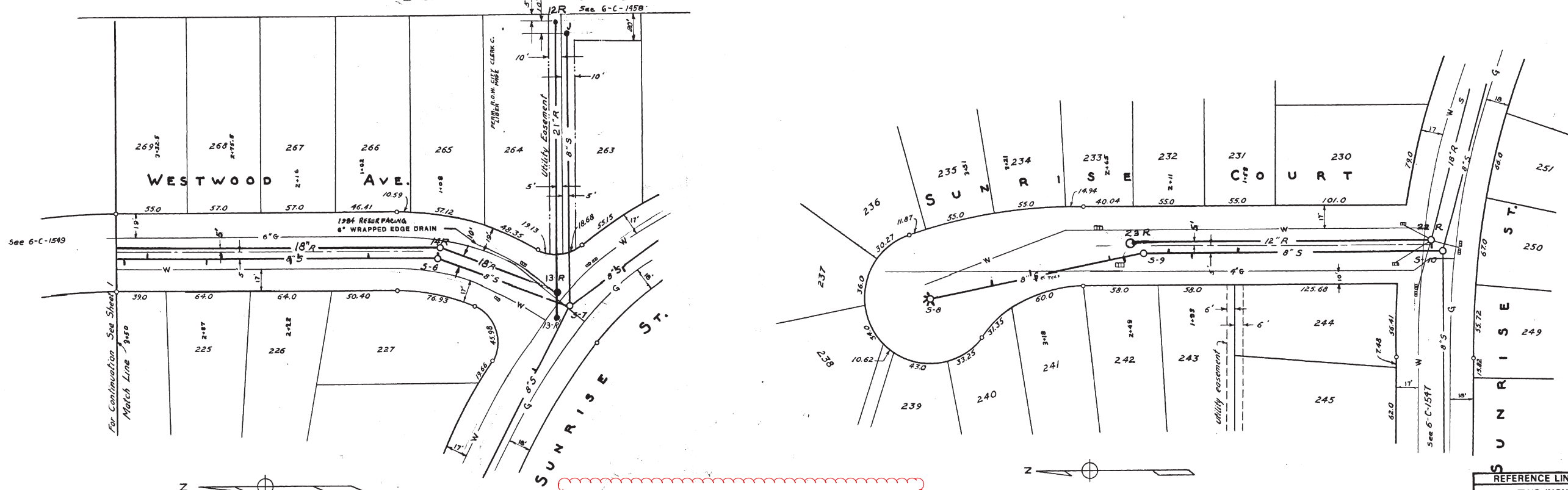
71-70682 (Manhole ID)  
5.07 (Manhole Depth)

# Miller Nature Area

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Digital Status  
Scanned On: 4/17/05  
By: JSM  
Despeckled: YES  
Vector: YES  
O.C.R.:

DR. BY	DATE	SHEET No. 2 of 3	STORM AND SANITARY SEWERS WESTWOOD AVE. CONTINUATION FROM SH. 1 SUNRISE COURT SUNRISE ST. TO CUL DE SAC GEO. H. SANDENBURGH CITY ENGINEER
TR. BY	INDEX No. 3511	SHELF No.	
CH. BY	8-56	6-C-1548	CITY ENGINEERS' OFFICE - ANN ARBOR, MICHIGAN
REVISIONS	2-25-55	SCALE: HORIZ. 1" = 40' VERTICAL 1" = 4'	

PREPARED BY DRURY, McNAMEE & PORTER CONSULTING ENGINEERS REVISED 1-85

JOB # DIST #13 2077-5 JOB # DIST #10 2083-R

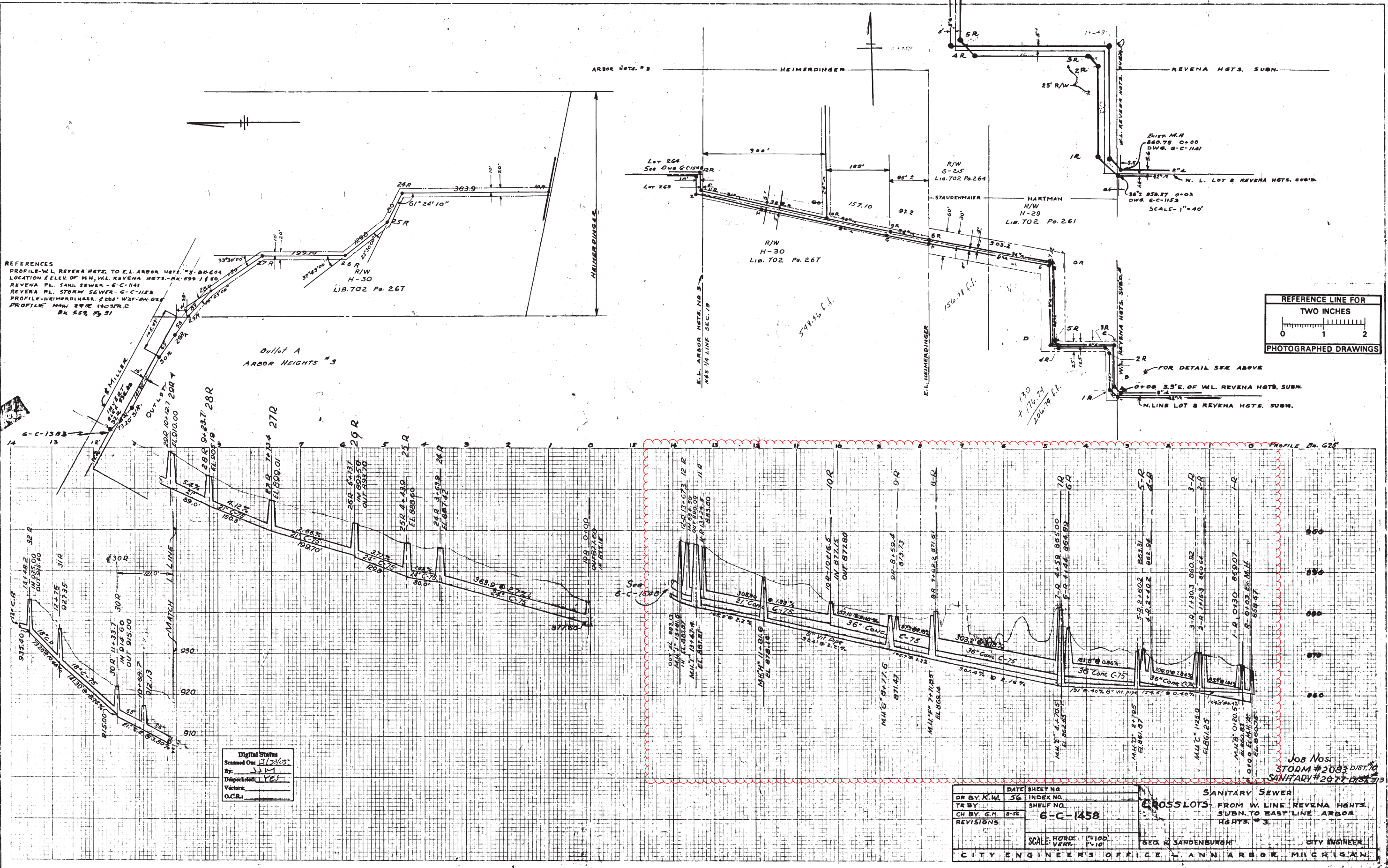


DATE	
BY	
CHECKED	
REVISIONS	
NO.	

REFERENCES  
 PROFILE-W.L. REVENA HGT. TO E.L. ARBOR HGT. #3 BK-604  
 LOCATION ELEV. OF M.H. W.L. REVENA HGT. BK-598-J-60  
 REVENA PL. SANIT. SEWER - G-C-1141  
 REVENA PL. STORM SEWER - G-C-1153  
 PROFILE-HEIMERDINGER #208' W.L. BK-622  
 PROFILE M.H. 207E 14037R.2  
 BK 569 Pg 31

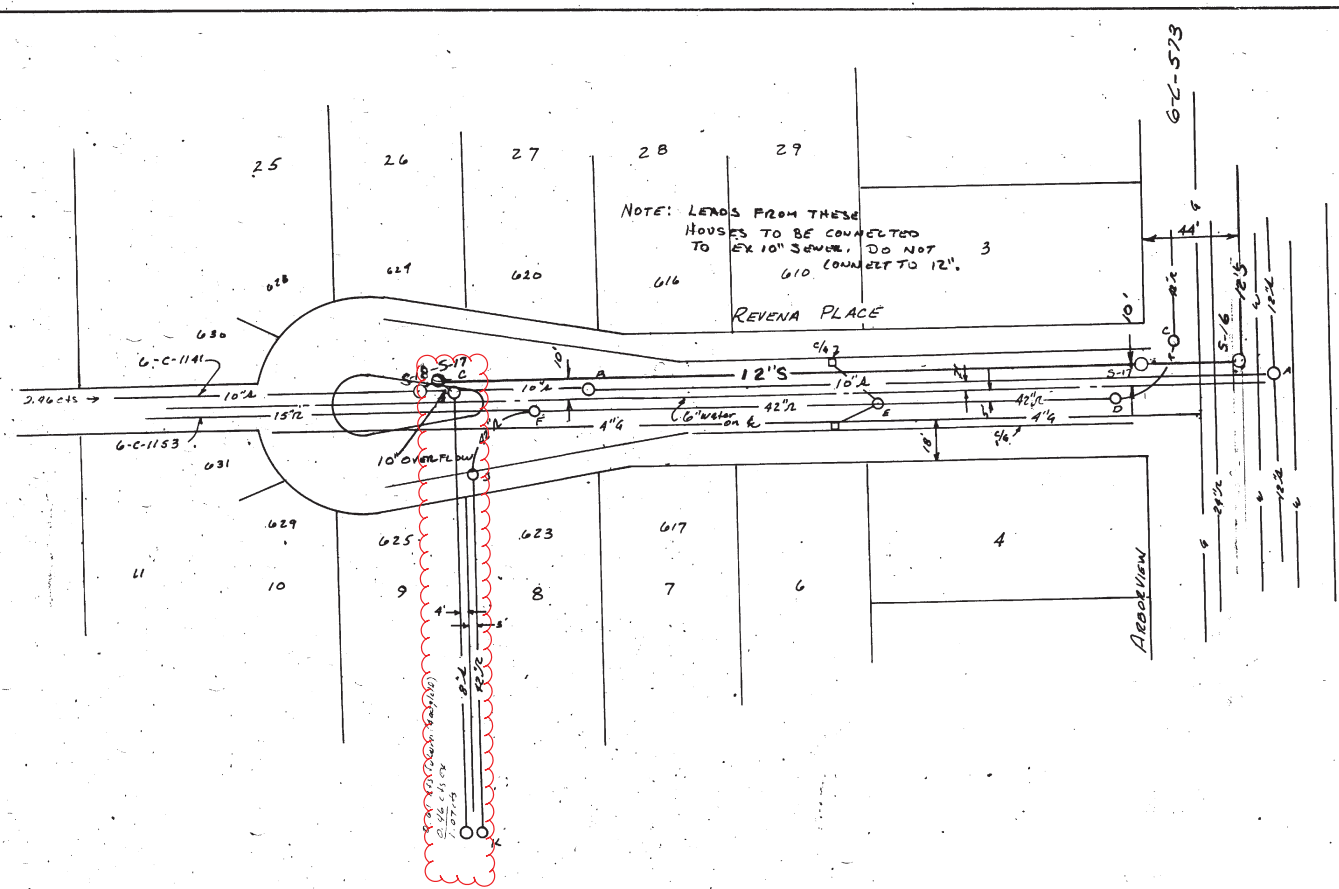
DATE	
BY	
CHECKED	
REVISIONS	
NO.	

Digital Status  
 Scanned On: 3/21/05  
 By: J.M.  
 Dissected: YES  
 Vector:   
 O.C.R.:   
 Job Nos:  
 STORM #2083 DIST. 10  
 SANITARY #2077 DIST. 313

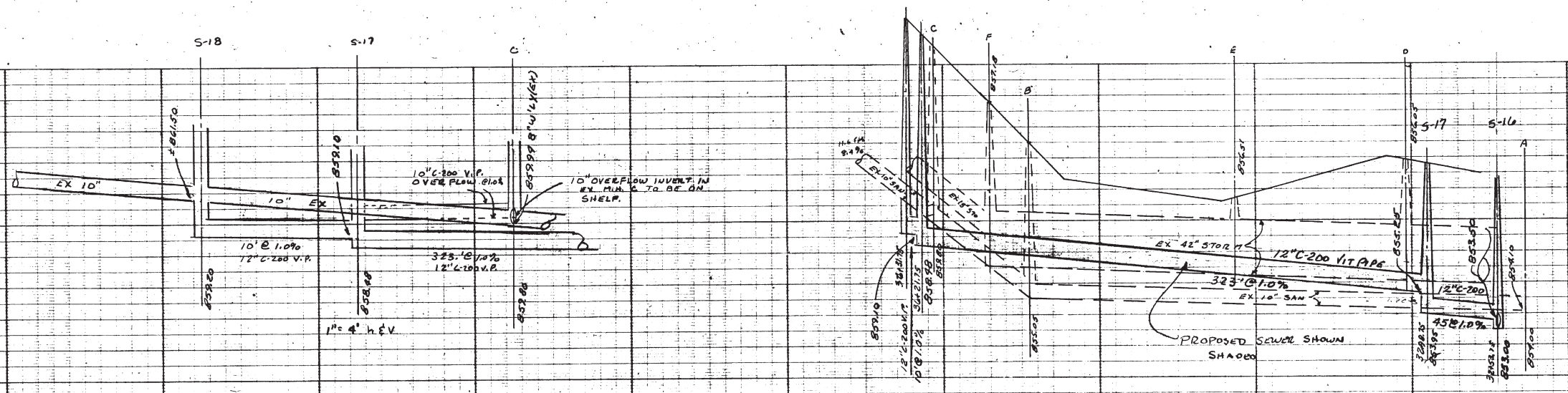
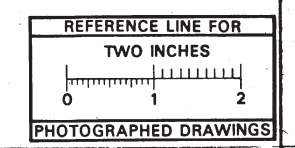


DATE		SHEET NO.	56
DR BY	K.W.	INDEX NO.	
TR BY		SHELF NO.	
CH BY	G.M.	6-C-1458	
REVISIONS			
SCALE: HORIZ. 1"=100'		VERT. 1"=10'	
CITY ENGINEER'S OFFICE		ANN ARBOR MICHIGAN	





NOTE: LEADS FROM THESE HOUSES TO BE CONNECTED TO EX 10" SEWER. DO NOT G10 CONNECT TO 12".



Digital Status  
Scanned On: 3/11/05  
By: EMA  
Despatched: Yes  
Vectors:  
O.C.R.:

DATE	3/69	SHEET NO.	
DR BY	Dob	INDEX NO.	
TR BY		SHELF NO.	
CHK BY			
REVISIONS			
PROJECT NO.		G-C-1141 A	
SCALE: HORIZONTAL 1"=40'		VERTICAL 1"=4'	
PUBLIC WORKS DEPARTMENT		ANN ARBOR, MICHIGAN	
JOB	DIST.	PREPARED BY	FREDERICK A. MAMMEL
JOB	DIST.	APPROVED BY	
JOB	DIST.		

LEGEND:	—○—○—	EXISTING SANITARY	—○—○—	EXISTING STORM	—○—○—	EXISTING GAS
	—○—○—	PROPOSED SANITARY	—○—○—	PROPOSED STORM	—○—○—	EXISTING WATER
	—	CENTER LINE	---	RIGHT PROPERTY LINE		
	—	PROFILES				

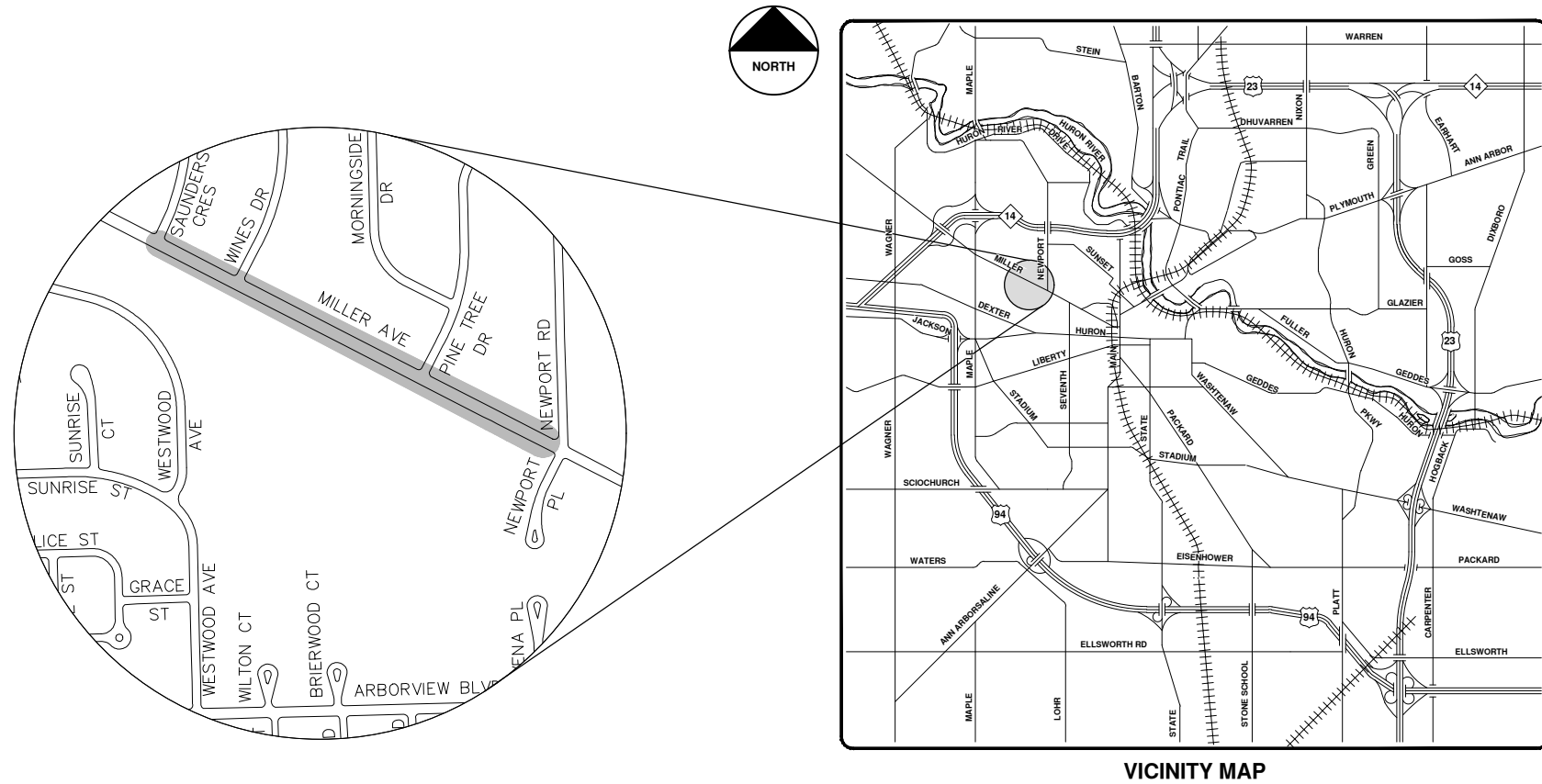
REFERENCES:	BENCH MARK	PROFILES BY
	DRAWINGS	FIELD BOOK






# 2018 SANITARY SEWER LINING

## MILLER AVE, WEST OF NEWPORT



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg - \_a2 standard bw.stb - Plot Date: 4/27/2018 9:46:58 AM



**ENGINEERING**  
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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. 2017032-75  
 SHEET No. 75 OF 130

**© 2018 SANITARY SEWER LINING; LOCATION: MILLER AVE, WEST OF NEWPORT; 2017032**

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	5-3-18	DPF	IVK

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 ANN ARBOR 734-794-6410  
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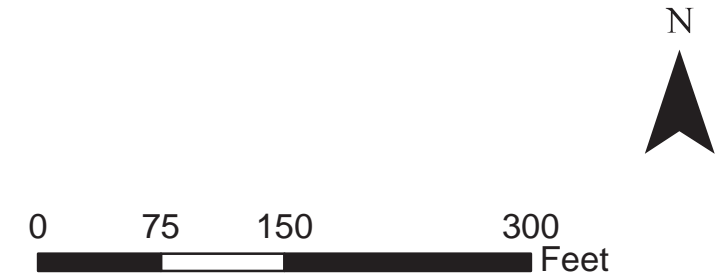


- Legend**
- Proposed Lining
  - Lined Pipe
  - Sanitary Main
  - Sanitary Lateral, Abandoned
  - Sanitary Lateral
  - ⊗ Sanitary Lateral, Plugged
  - Manhole

71-70682 (Manhole ID)  
 5.07 (Manhole Depth)

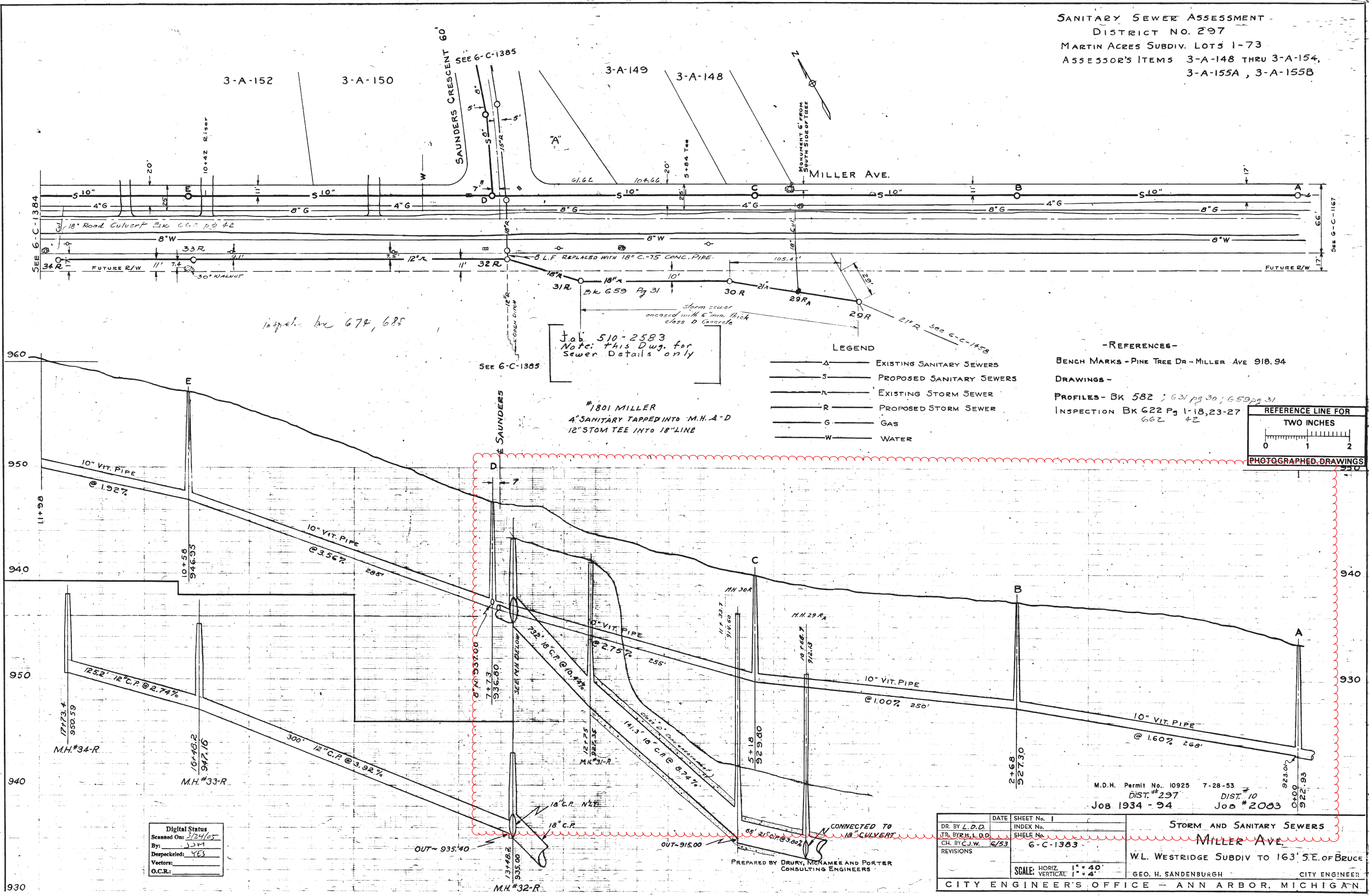
## Miller Ave, West of Newport

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SANITARY SEWER ASSESSMENT -  
 DISTRICT NO. 297  
 MARTIN ACRES SUBDIV. LOTS 1-73  
 ASSESSOR'S ITEMS 3-A-148 THRU 3-A-154,  
 3-A-155A, 3-A-155B



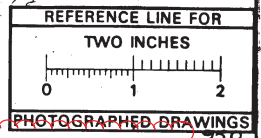
insp. by 674, 685

Job 510-2583  
 Note: This Dwg. for  
 Sewer Details only

#1801 MILLER  
 4" SANITARY TAPPED INTO M.H. A-D  
 12" STOM TEE INTO 18" LINE

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

- REFERENCES -  
 BENCH MARKS - PINE TREE DR - MILLER AVE 918.94  
 DRAWINGS -  
 PROFILES - BK 582 ; 631 pg 30 ; 659 pg 31  
 INSPECTION BK 622 Pg 1-18, 23-27  
 662 42



Digital Status  
 Scanned On: 3/24/05  
 By: JSM  
 Despeckled: YES  
 Vectors:  
 O.C.R.:

M.D.H. Permit No. 10925 7-28-53  
 DIST. #297 DIST. #10  
 JOB 1934-94 JOB #2003

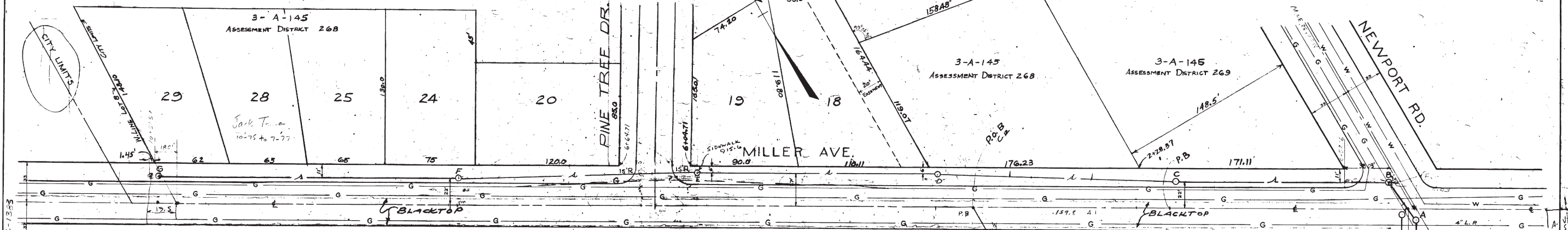
DR. BY L.D.D.	DATE	SHEET No. 1	STORM AND SANITARY SEWERS MILLER AVE W.L. WESTRIDGE SUBDIV TO 163' SE. OF BRUCE GEO. H. SANDENBURGH CITY ENGINEER
CH. BY C.J.W.	INDEX No.	INDEX No.	
REVISIONS	SHELF No.	6-C-1383	
SCALE: HORIZ. 1" = 40' VERTICAL 1" = 4'		CITY ENGINEER'S OFFICE - ANN ARBOR, MICHIGAN	

PREPARED BY DRURY, McNAMEE AND PORTER  
 CONSULTING ENGINEERS



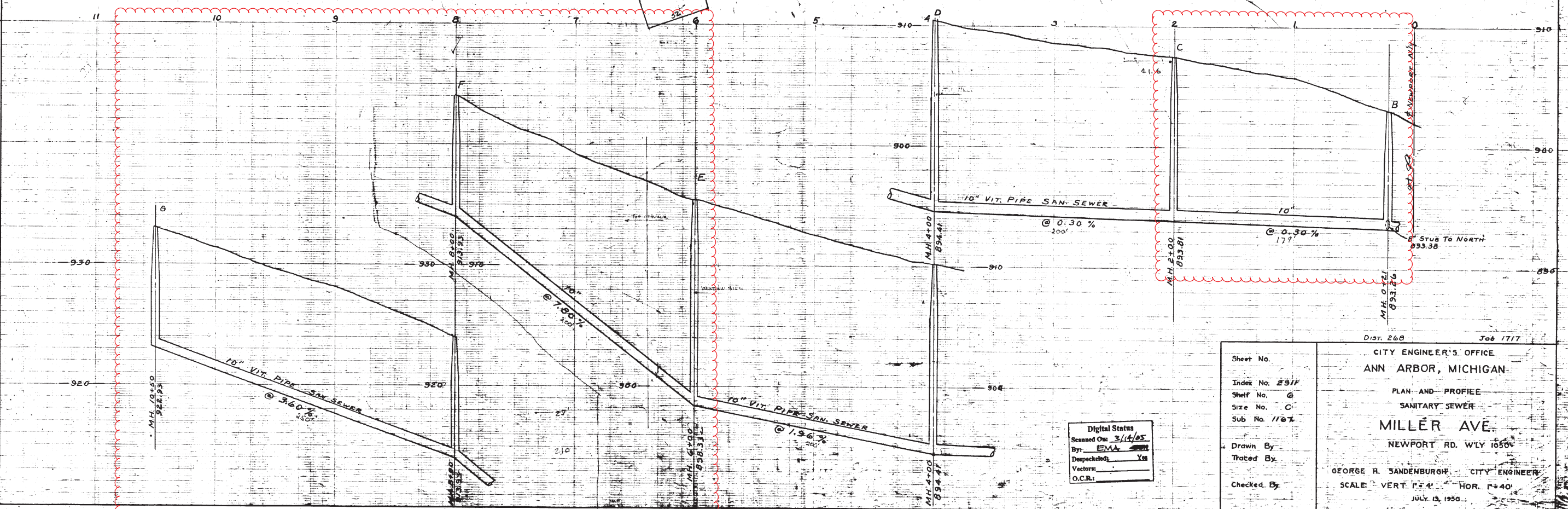
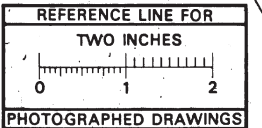
WESTRIDGE SUB'D

WESTRIDGE PLACE



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

BK 582 Pg. 46-55 C # 6 PROFILE  
 508 P. 53 SAN SEWER PINS.  
 521 P. 97 CHECK SAN. PINS.  
 509 P. 46 SAN SEWER



Digital Status  
 Scanned On: 3/14/05  
 By: EMA  
 Despeckled: Yes  
 Vectors:  
 O.C.R.:

Sheet No.	CITY ENGINEER'S OFFICE
Index No. 2317	ANN ARBOR, MICHIGAN
Shelf No. G	PLAN AND PROFILE
Size No. C	SANITARY SEWER
Sub No. 1167	<b>MILLER AVE.</b>
Drawn By	NEWPORT RD. WLY 1050'
Traced By	GEORGE R. SANDBURGH, CITY ENGINEER
Checked By	SCALE: VERT. 1" = 4' HOR. 1" = 40'
	JULY 15, 1950

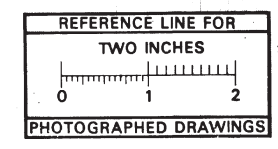
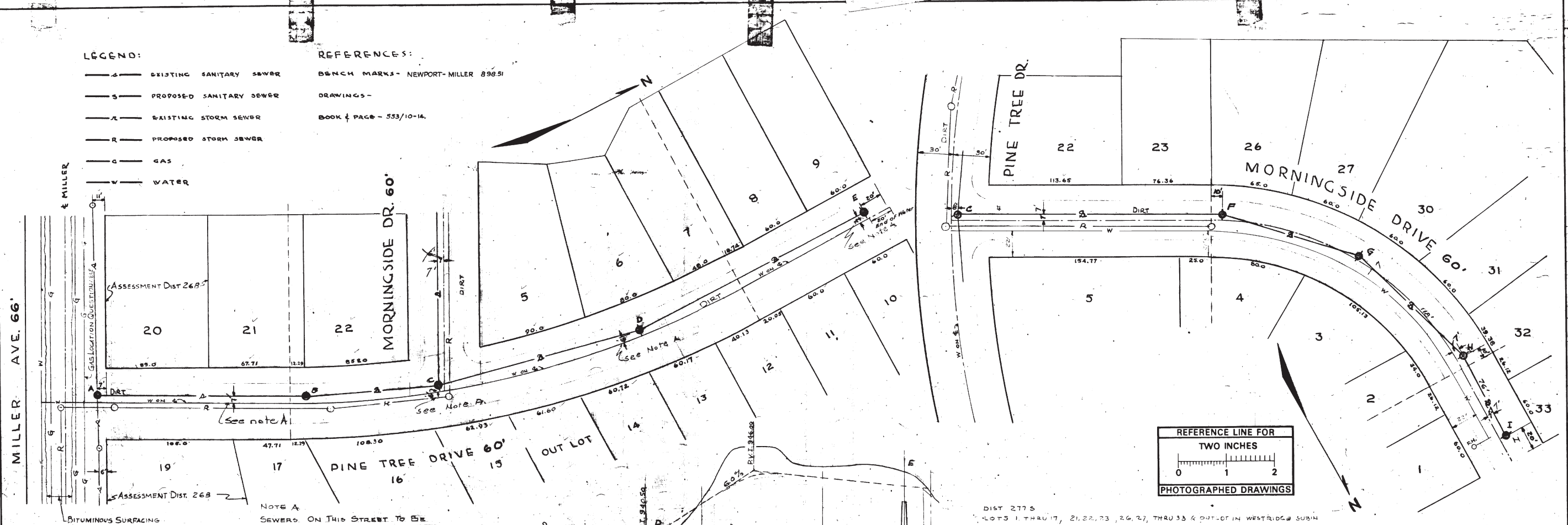


**LEGEND:**

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

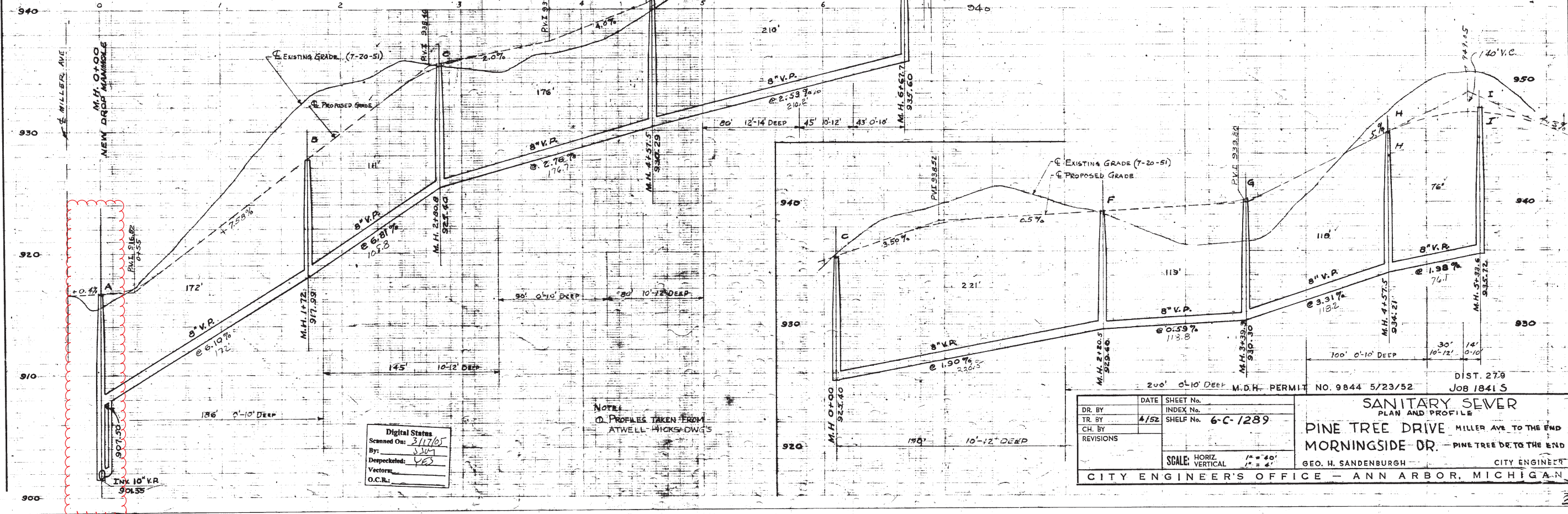
**REFERENCES:**

- BENCH MARKS - NEWPORT-MILLER 89851
- DRAWINGS -
- BOOK & PAGE - 533/10-14.



NOTE A:  
SEWERS ON THIS STREET TO BE LOCATED FROM EAST PROPERTY LINE

DIST 2775  
LOTS 1 THRU 17, 21, 22, 23, 26, 27, THRU 33 & OUT-LOT IN WESTRIDGE SUBIN



NOTE:  
D PROFILES TAKEN FROM ATWELL-HICKS-DWGS

Digital Status  
Scanned On: 3/17/05  
By: S307  
Despeckled: YES  
Vectors:  
O.C.R.:

DR. BY	DATE	SHEET No.
TR. BY	4/52	INDEX No.
CH. BY		SHELF No. 6-C-1289
REVISIONS		

SCALE: HORIZ. 1" = 40'  
VERTICAL 1" = 4'

M.D.H. PERMIT NO. 9844 5/23/52  
JOB 1841 S

**SANITARY SEWER**  
PLAN AND PROFILE  
PINE TREE DRIVE MILLER AVE TO THE END  
MORNINGSIDE DR. - PINE TREE DR. TO THE END

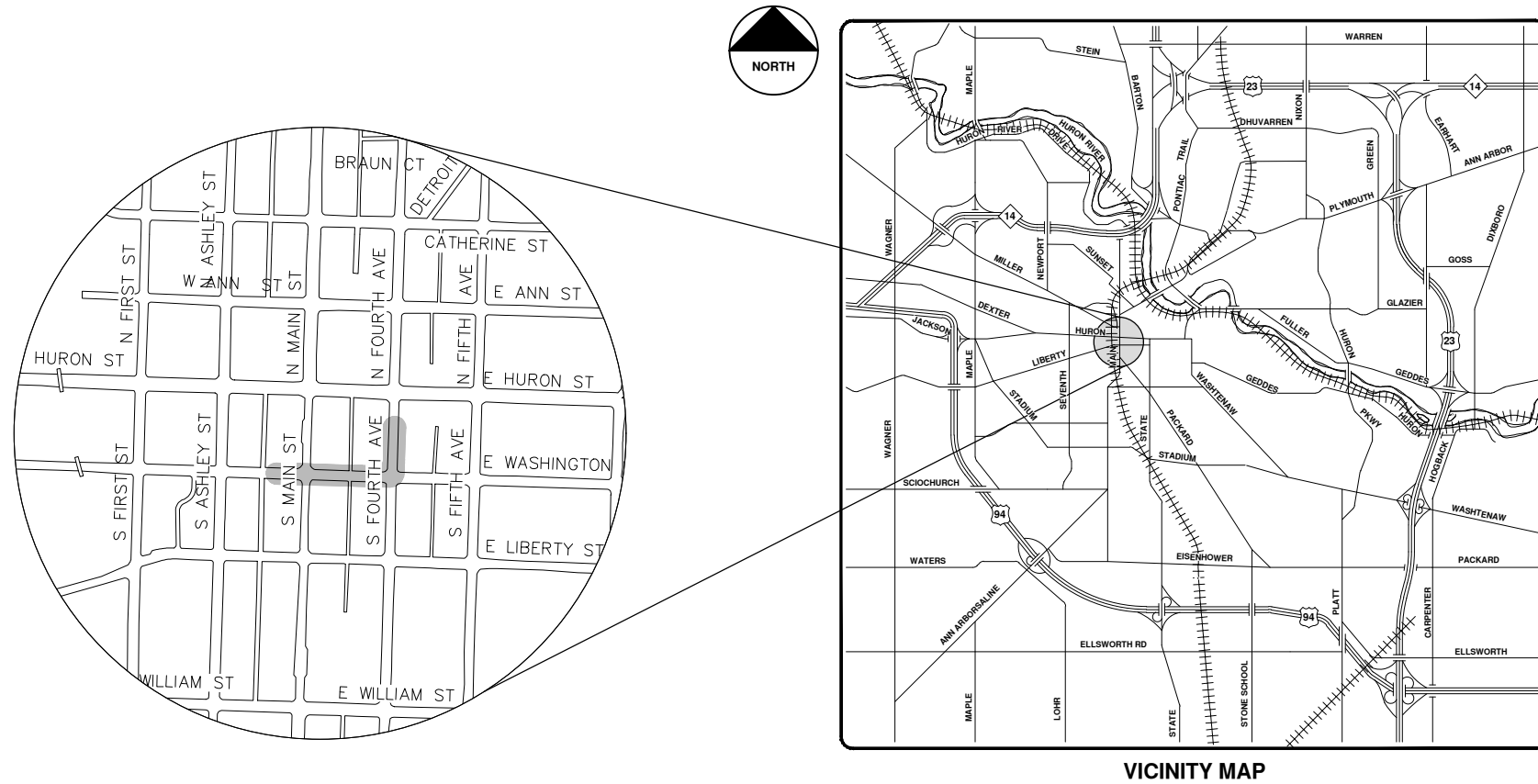
GEO. H. SANDENBURGH CITY ENGINEER  
CITY ENGINEER'S OFFICE - ANN ARBOR, MICHIGAN






# 2018 SANITARY SEWER LINING

## WASHINGTON AND S FOURTH



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg --\_a2 standard bw.stb -- Plot Date: 4/27/2018 9:46:59 AM



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

SCALE: \_\_\_\_\_  
 DRAWING No. 2017032-80  
 SHEET No. 80 OF 130

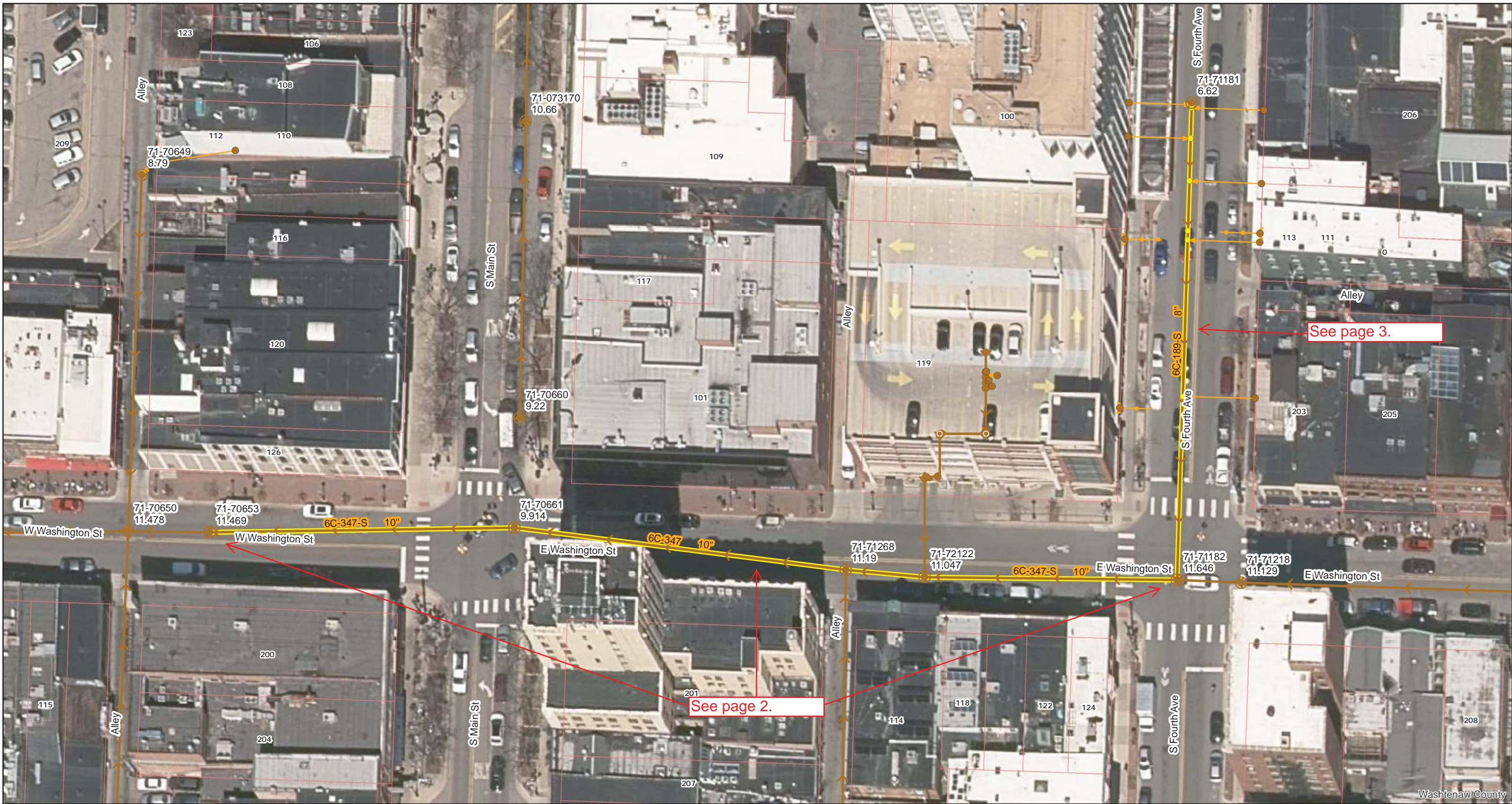
**311**  
 Know what's below.  
 Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	5-3-18	DPF	IVK

CITY OF ANN ARBOR  
 PUBLIC SERVICES  
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 ANN ARBOR, MI 48107-8647  
 ANN ARBOR, MI 48107-8647  
 734-794-6410  
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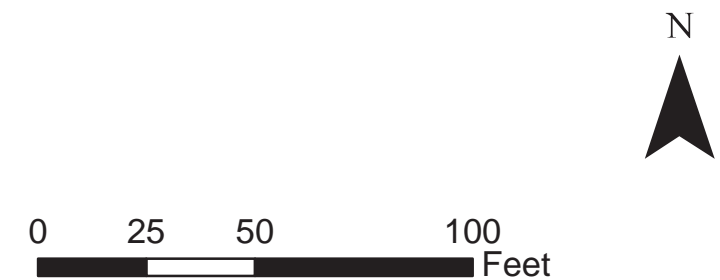


- Legend**
- Proposed Lining
  - Lined Pipe
  - Sanitary Main
  - Manhole
  - Sanitary Lateral, Abandoned
  - Sanitary Lateral
  - Sanitary Lateral, Plugged

71-70682 (Manhole ID)  
 5.07 (Manhole Depth)

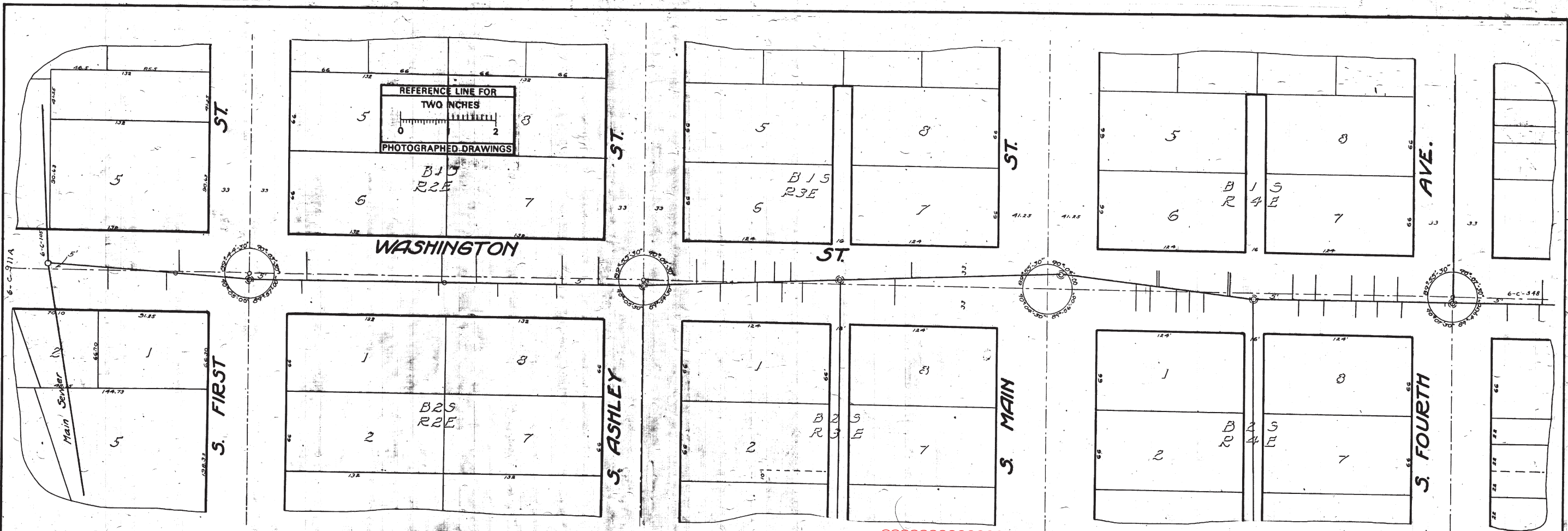
# Washington and S Fourth

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Washtenaw County





Measurements to house connections

0.0 @ manhole @ Main Sewer	North 110.1	South 50.0	80 @ Alley between Main & 4th	North 100	South 30.5
	21.0	21.0		30.7	30.5
	32.3	32.3		42.5	86
	35.12	32.72		10.5	83
	42.2	42.72		97	101.5
	460	376.2		121.5	117.5
		331.3			
		197.2 L.H.			

1500 M.H. @ Ashley St.

547.5	300
565	394
592	614.5
608.5	837.0
621.5	702
723	
929	915
931	935
999	946
990	957
990	969

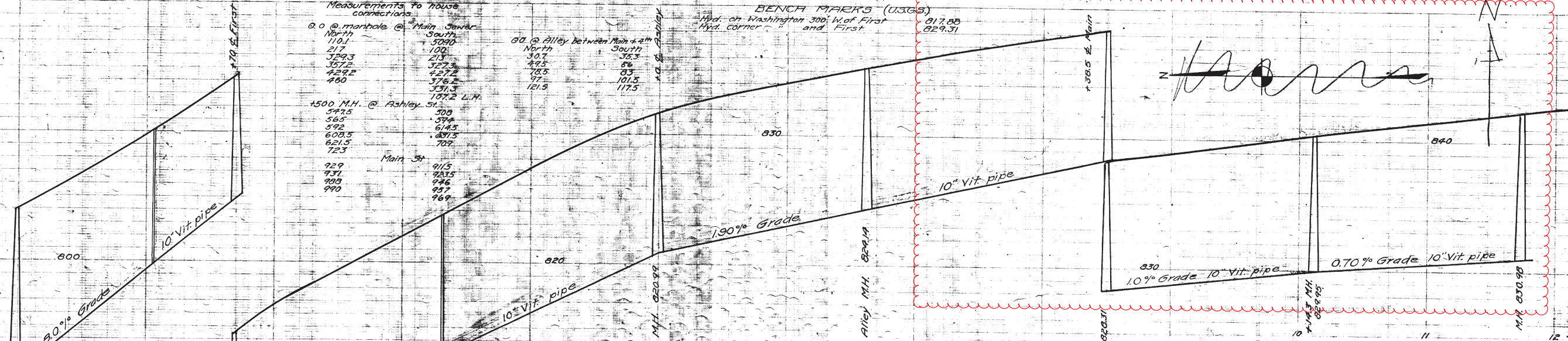
Main St

915	935
946	957
957	969

BENCH MARKS (USGS)

Wpd. on Washington 300' W of First Hyd. corner " and First

817.88
829.31



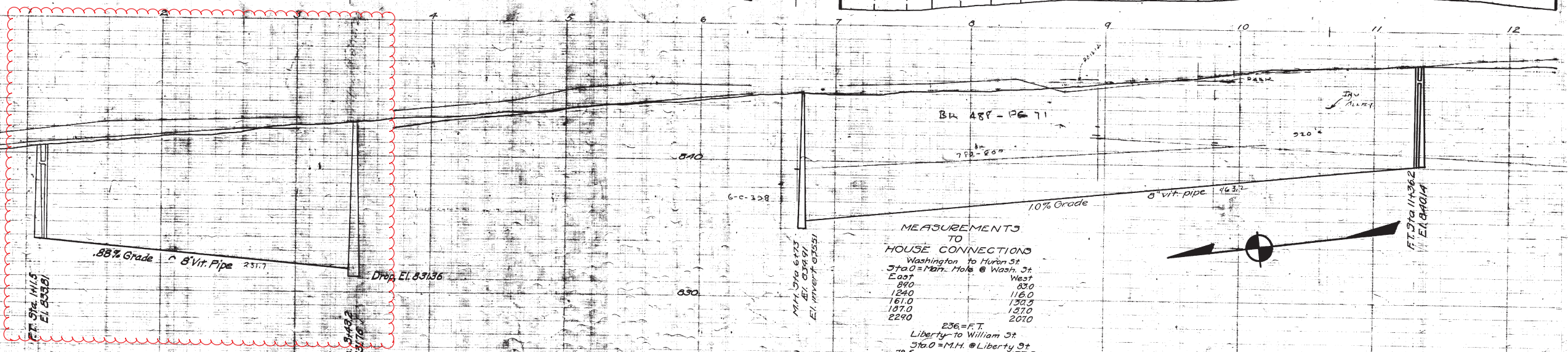
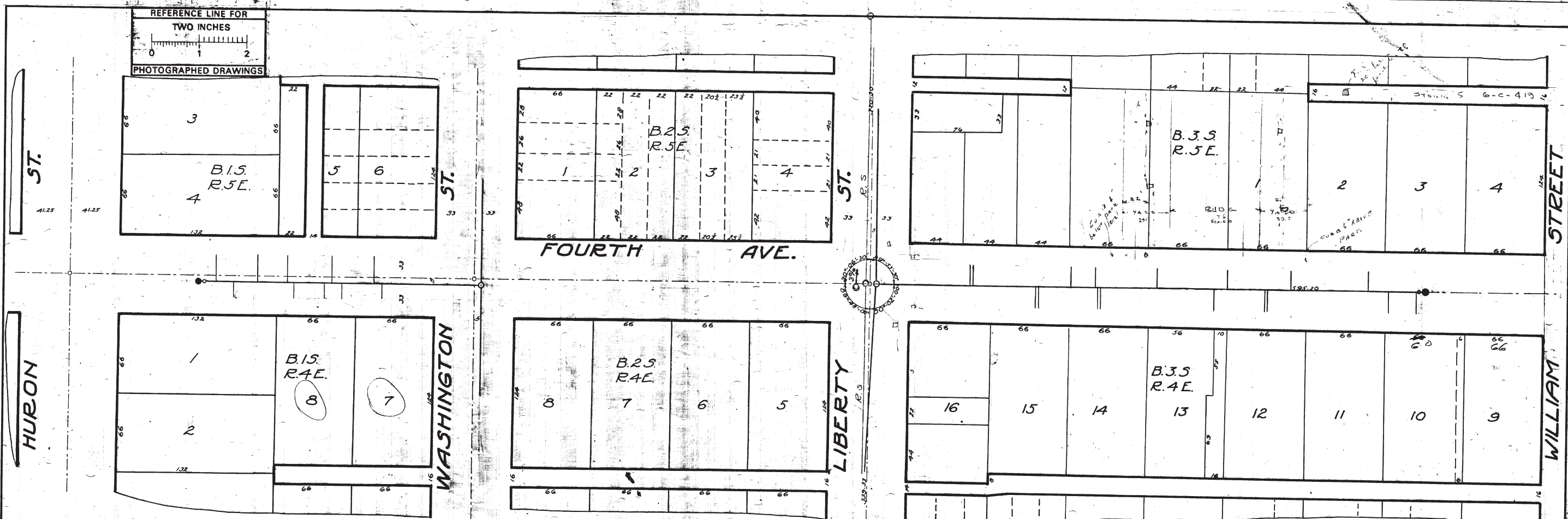
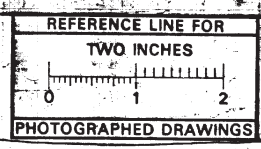
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By: Disk  
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O.C.R.:

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INDEX NO. 962  
SHELF NO. 6  
SIZE. C  
SUB NO. 347

CITY ENGINEERS OFFICE  
ANN ARBOR, MICH.  
PLAN AND PROFILE  
OF  
SANITARY SEWER  
DISTRICT NO. 2.  
**WASHINGTON ST.**  
FIRST ST. TO FOURTH AVE.  
Manley Osgood, City Engineer.  
1916.  
Scales - Plan 1"=40' Profile 1/2"=40' Ver. 1"=4'

Drawn by A.A.B.  
Traced by Durrell  
Checked by J





MEASUREMENTS TO HOUSE CONNECTIONS

Washington to Huron St	
Sta 0 = Man. Hole @ Wash. St	West
East	West
840	830
1240	1160
1610	1300
1870	1270
2290	2070
236 = F.T.	
Liberty to William St	
Sta 0 = M.H. @ Liberty St	West
East	West
78.5	133.5
80.5	135.5
162.5	190.0
183.0	187.0
234.7	202.7
293.7	225.0
346.0	327.0
411.5	428.0
459 = F.T.	



Digital Status  
Scanned On: 8-24-24  
By: DCK  
Despeckled: Yes  
Vectors:  
O.C.R.:

SHEET No. 120  
INDEX No. 804  
SHELF No. 0  
SIZE C  
SUB No. 189

CITY ENGINEER'S OFFICE.  
**ANN ARBOR, MICH.**  
PLAN AND PROFILE  
OF  
SANITARY SEWER  
**FOURTH AVE.**  
HURON ST. TO WILLIAM ST.  
Manley Osgood, City Engineer  
1916.  
Scale - Plan, 1" = 40'; Profile - Hor. 1" = 40', Ver. 1" = 4'

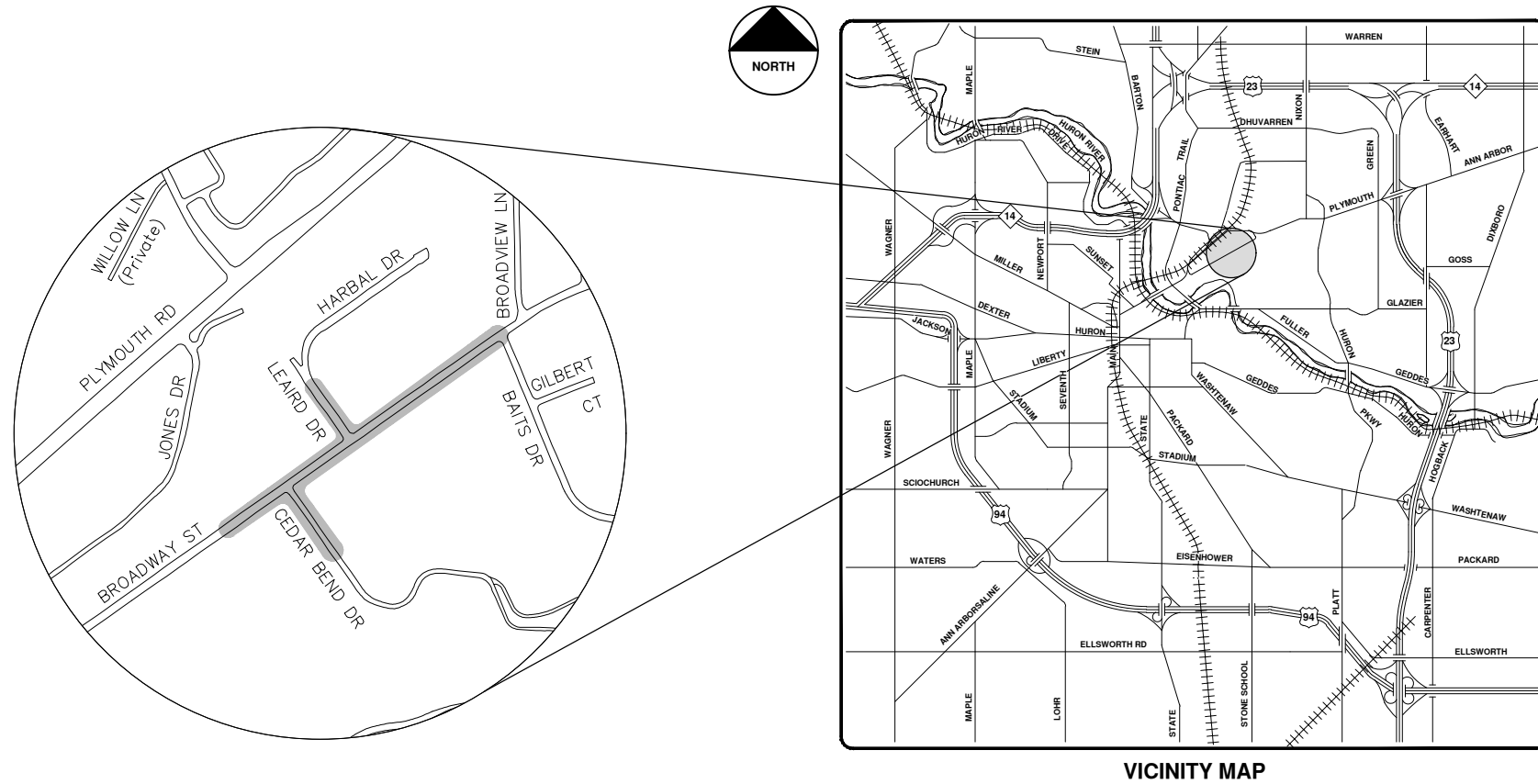
Drawn by A.B.  
Traced by A.B.  
Checked by J.





# 2018 SANITARY SEWER LINING

## BROADWAY, CEDAR BEND, LEAIRD DR



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg - \_a2 standard bw.stb - Plot Date: 4/27/2018 9:47:00 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	5-3-18	DPF	IVK

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

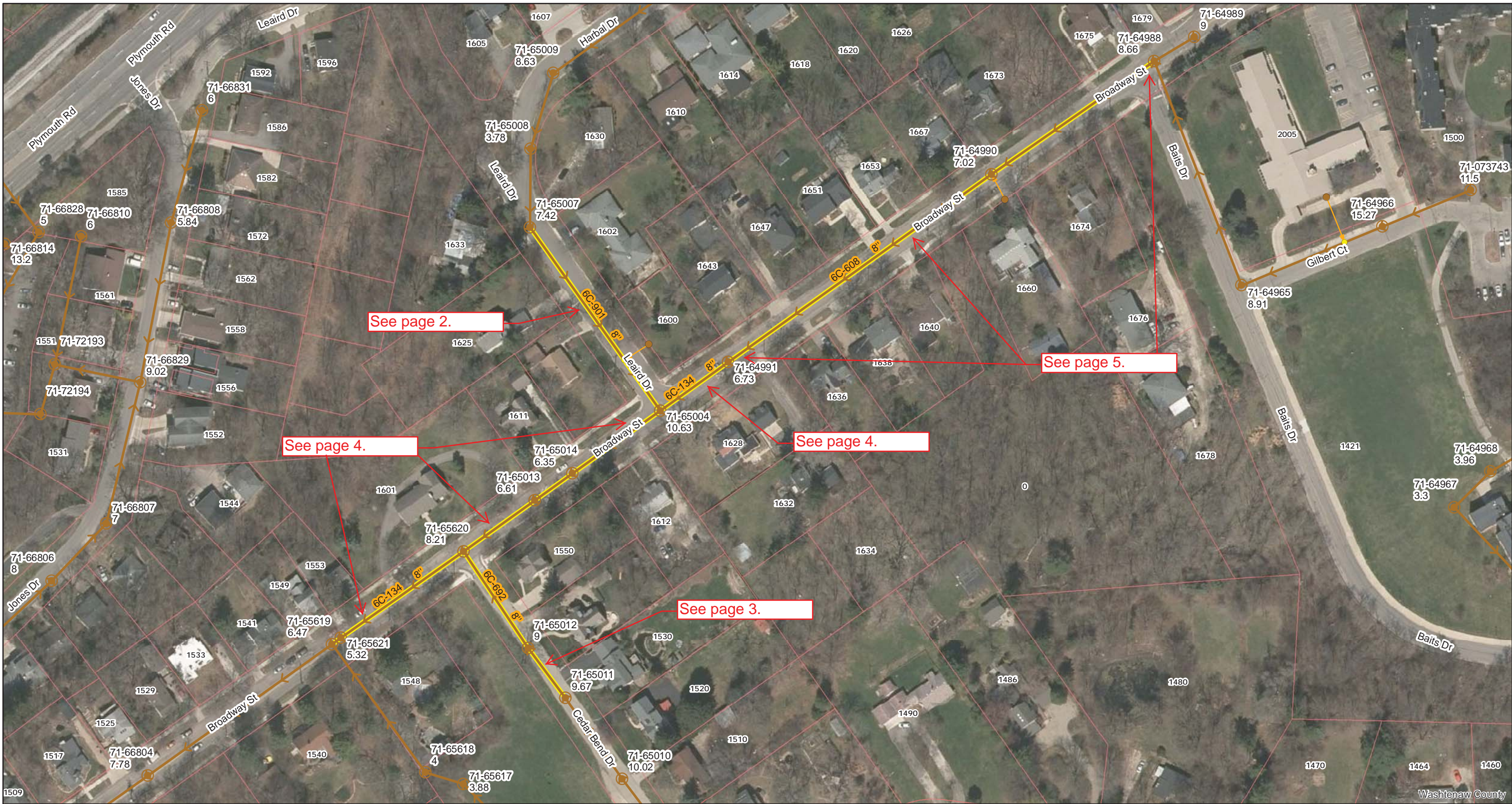
SCALE  
 DRAWING No.  
 2017032-64

SHEET No.

84 OF 130

© 2018 SANITARY SEWER LINING; LOCATION: BROADWAY, CEDAR BEND, LEAIRD DR; 2017032



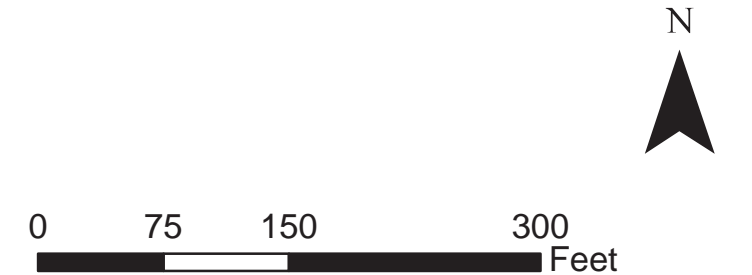


- Legend**
- Proposed Lining
  - Lined Pipe
  - Sanitary Main
  - Sanitary Lateral, Abandoned
  - Sanitary Lateral
  - Sanitary Lateral, Plugged
  - Manhole

71-70682 (Manhole ID)  
 5.07 (Manhole Depth)

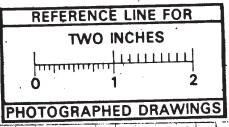
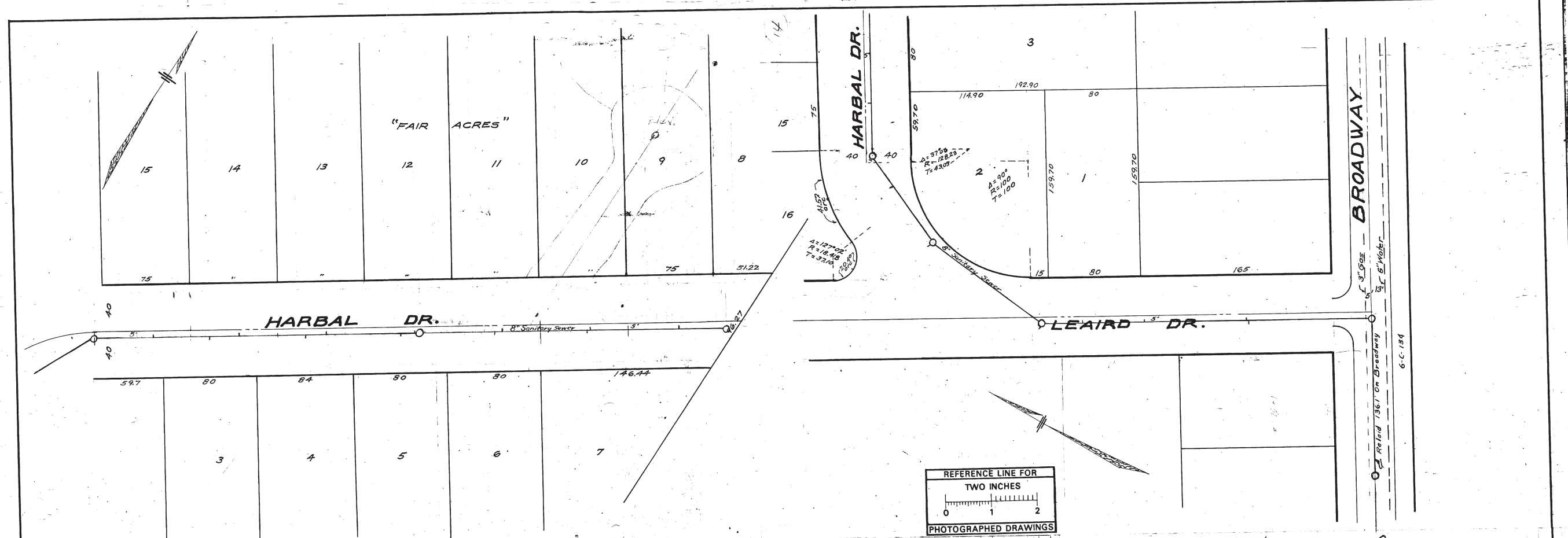
## Broadway / Cedar Bend / Leaird Dr

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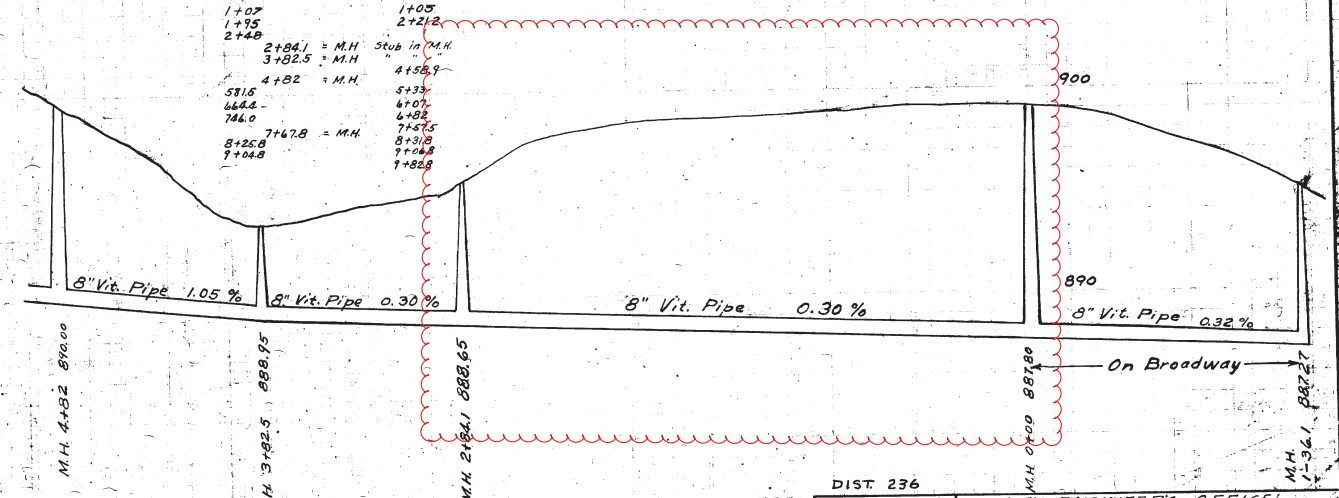
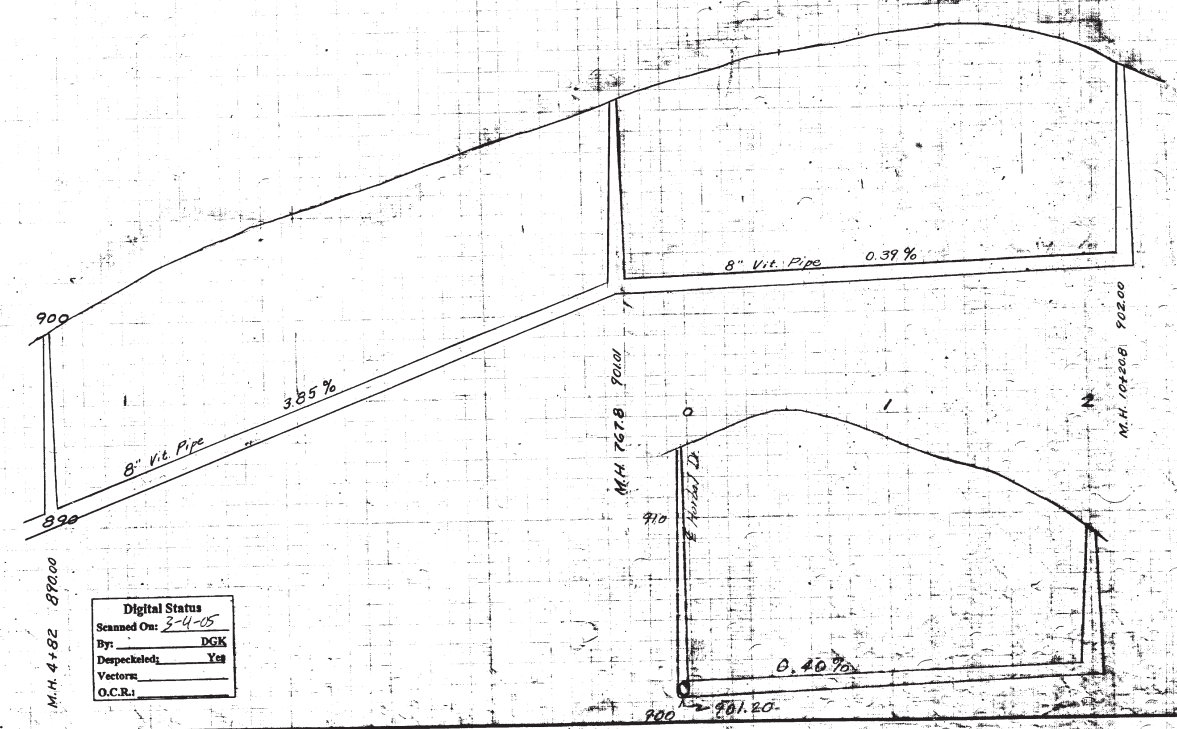
Washtenaw County





MEASUREMENTS FOR HOUSE CONNECTIONS

EAST	WEST
0+00 - MANHOLE ON BROADWAY	1+05
1+07	2+21.8
1+95	2+84.1 = M.H. Stub in M.H.
2+40	3+82.5 = M.H.
	4+82 = M.H.
5+18	5+33
6+62	6+07
7+60	7+82
8+25.8 = M.H.	7+67.8
9+04.8	8+31.8
	9+04.8
	9+88.8



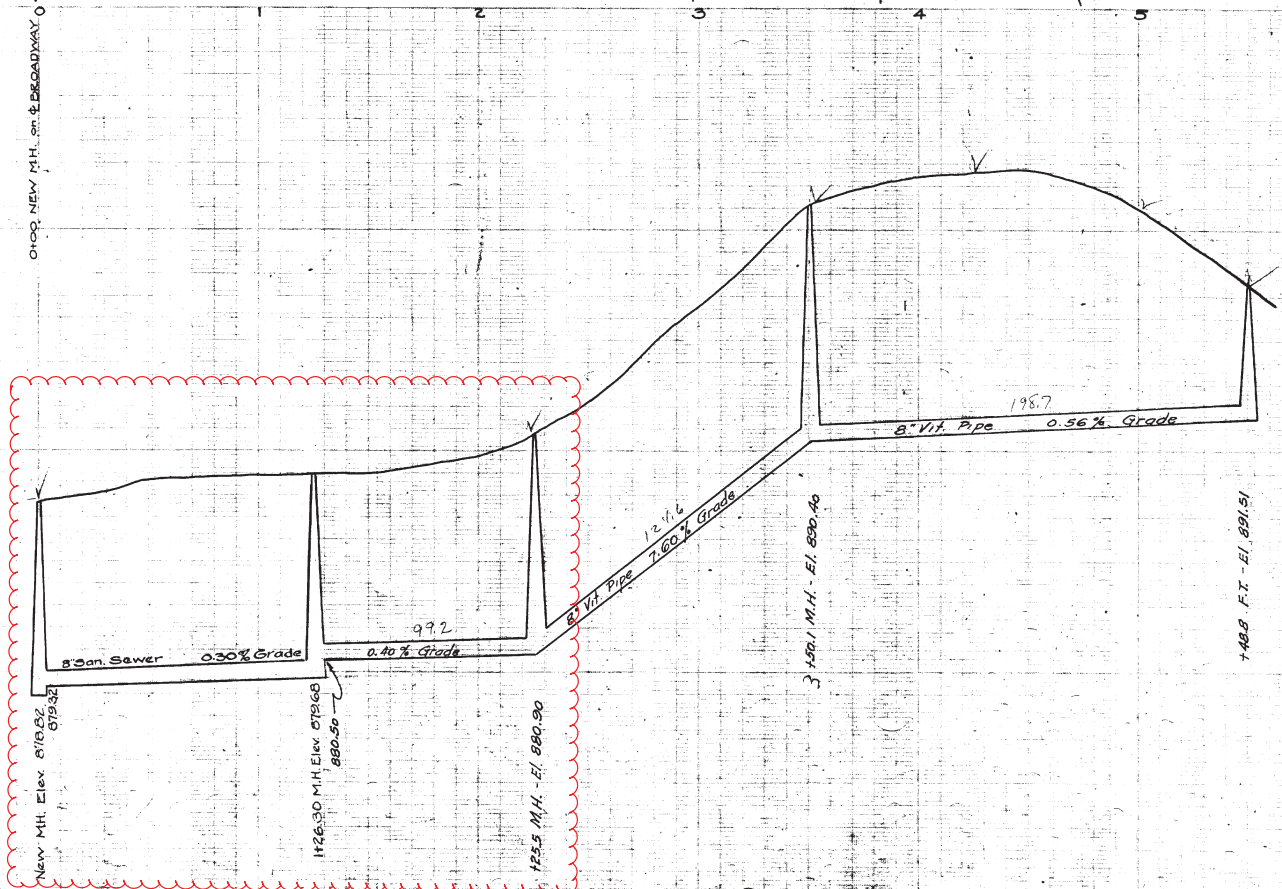
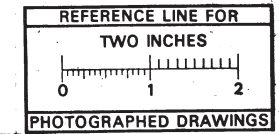
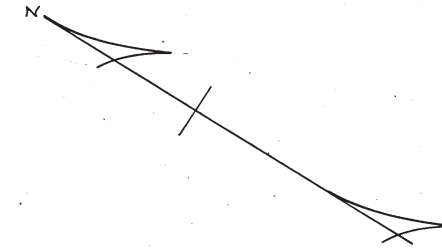
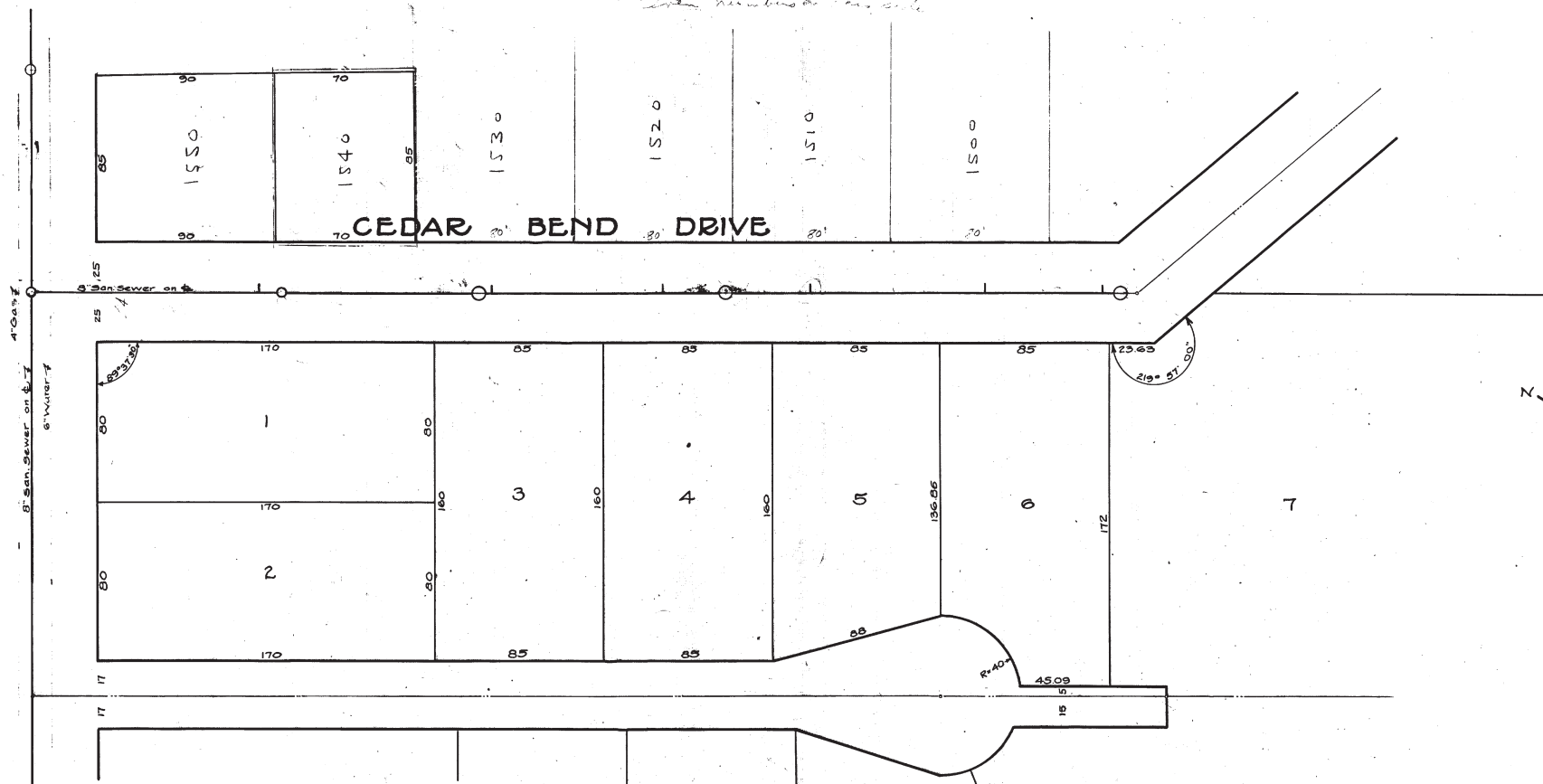
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By: DGM  
Despeckled: Yes  
Vector: Yes  
O.C.R.:

DIST. 236  
SHEET No. 2438  
INDEX No. 2438  
SHELF No. 6  
SIZE C  
SUB No. 901  
Drawn by  
Traced by  
Checked by  
CITY ENGINEERS' OFFICE  
ANN ARBOR, MICH.  
PLAN AND PROFILE  
SANITARY SEWER  
HARBAL DR.  
LEAIRD DR.  
BROADWAY ST. N.Y.  
Geo. H. Sondenburgh City Engineer  
194  
Scale: PLAN 1"=20' PROF. VERT. 1"=4'



BROADWAY

CEDAR BEND DRIVE

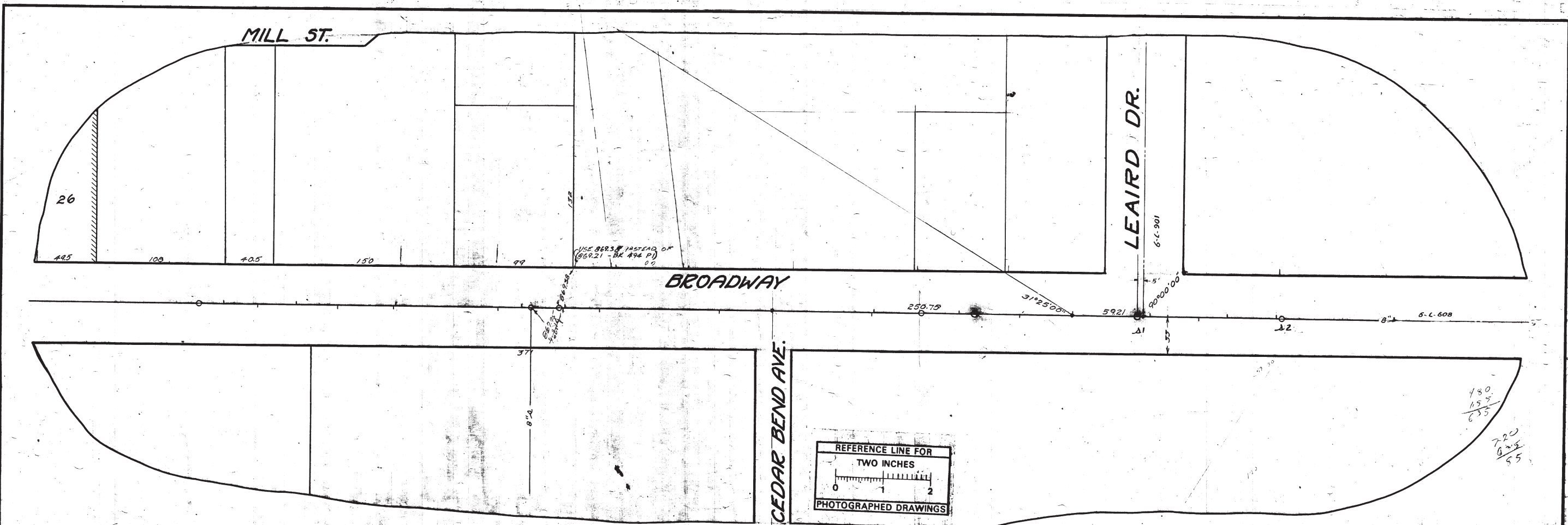


Measurements to House Connections  
 East West  
 1+15 0+00 M.H. to Broadway  
 1+25 1+25.3 M.H.  
 2+25 2+25.5 M.H.  
 2+32  
 3+18 3+50.1 M.H.  
 3+92.5  
 4+81  
 5+40 5+48.8 F.T.

Digital Status  
 Scanned On: 2-23-05  
 By: DCK  
 Despeckled: Yes  
 Vectors:  
 O.C.R.:

SHEET No. INDEX No. 1843 SHELF No. 6 SIZE C SUB. No. 692 DRAWN BY TRACED BY CHECKED BY KAO JMG APPROVED BY	CITY ENGINEER'S OFFICE <b>ANN ARBOR, MICH.</b> PLAN AND PROFILE SANITARY SEWER <b>CEDAR BEND DRIVE</b> BROADWAY 3LY. DISTRICT NO. 179
	GEORGE H. SANDENBURGH, CITY ENGINEER 1929-4-26 SCALES: PLAN HOR. 1"=40' PROF. VERT. 1"=4'

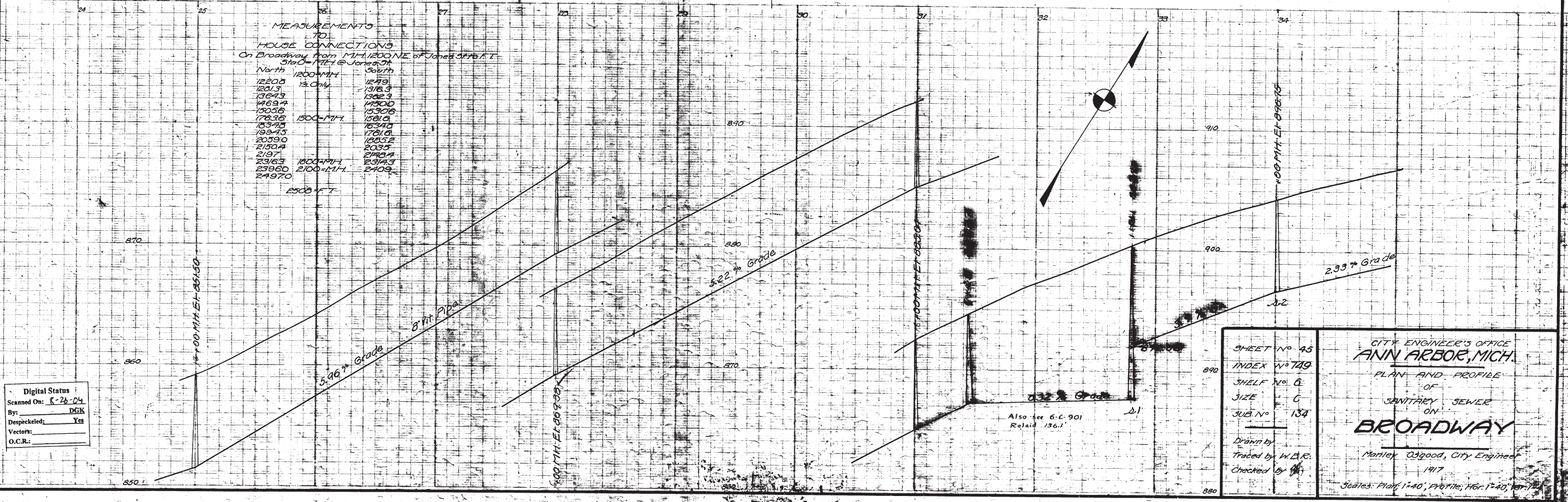




MEASUREMENTS TO HOUSE CONNECTIONS On Broadway from M.H. 1200 N.E. of Jones St. 5116 F.T.

North	1200 M.H.	South
12205	1200	1279
12613	1304	13163
13673		13623
14634		14500
15056		15306
17636	1500 M.H.	15616
16340		16340
19943		17616
20390		18932
21504		2035
2197		21934
23163	1800 M.H.	23143
23960	2100 M.H.	2409
24970		

2500 F.T.



Digital Status  
Scanned On: 8-28-04  
By: DGK  
Despeckled: Yes  
Vectors:  
O.C.R.:

SHEET NO. 45  
INDEX NO. 749  
SHELF NO. 6  
SIZE C  
SUB NO. 134  
Drawn by  
Traced by W.D.K.  
Checked by

CITY ENGINEER'S OFFICE  
**ANN ARBOR, MICH.**  
PLAN AND PROFILE  
OF  
SANITARY SEWER  
ON  
**BROADWAY**  
Manley Osgood, City Engineer  
1917  
Scale: Plan, 1"=40', Profile, 1"=40', Vert.



POST-1816

5-A-76

5-A-74

5-A-71

5-A-72

5-A-73A

5-A-73B

WATER AND GAS  
LINE FROM ASH  
TO WORKS IS  
400' - 100' IN  
1924 - 1925  
CONCRETE, WHETHER BY  
CROSS STREETS  
OR THROUGH IN  
KINGDOM ROAD  
5th, 11th, 13th, 15th, 17th  
AND 19th when  
the road was  
opened to  
from 1st to  
19th



6-C-134

42

8'4"

43

8'4"

44

BROADWAY

BAITS DR.

SEE U of M  
6-C-3275

66'

6-C-2053

LEGEND

- — S — EXISTING SANITARY SEWER
- — S — PROPOSED " "
- — L — EXISTING STORM SEWER
- — L — PROPOSED " "
- W — WATER
- G — GAS

REFERENCES

- BENCH MARK:
- DRAWINGS:
- PROFILES: BK 742

REFERENCE LINE FOR  
TWO INCHES  
0 1 2  
PHOTOGRAPHED DRAWINGS

930

920

910

930

920

Digital Status  
Scanned On: 2-22-05  
By: DGK  
Despeckled: Yes  
Vectorized: Yes  
O.C.R.:

8" Vit Pipe  
408' @ 2.33%

8" Vit Pipe  
242' @ 0.40%

381.00  
386.25

401.50  
407.00

DR. BY	DATE	SHEET NO.
Dor	3/63	INDEX NO. 1536
TR. BY		SHELF NO.
CH. BY		
REVISIONS		
<b>6-C-608</b>		
SCALE: HORIZONTAL 1" = 40' VERTICAL 1" = 4'		

SANITARY AND STORM SEWER  
**BROADWAY**  
200 FT EAST OF LEAIRD DRIVE  
TO 1060 FT WEST OF PLYMOUTH ROAD  
FREDRICK A. MAMMEL  
SUPERINTENDENT OF PUBLIC WORKS

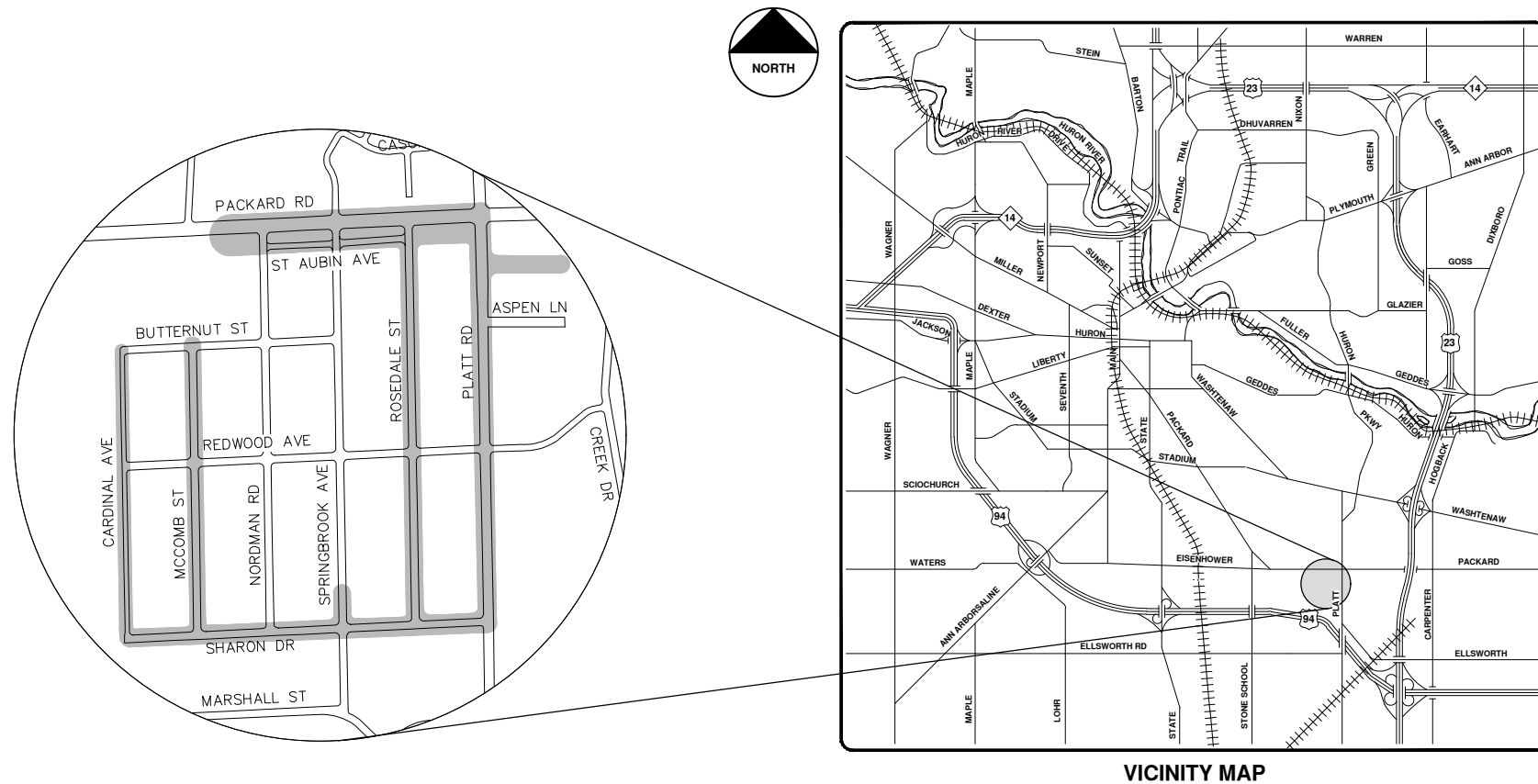
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN






# 2018 SANITARY SEWER LINING

## SPRINGWATER SUBDIVISION



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg - \_a2 standard bw.stb - Plot Date: 4/27/2018 9:47:02 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. 2017032-90  
 SHEET No. 90 OF 130

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	5-3-18	DPF	INK

© 2018 SANITARY SEWER LINING; LOCATION: SPRINGWATER SUBDIVISION; 2017032





**Legend**

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

71-70682 (Manhole ID)

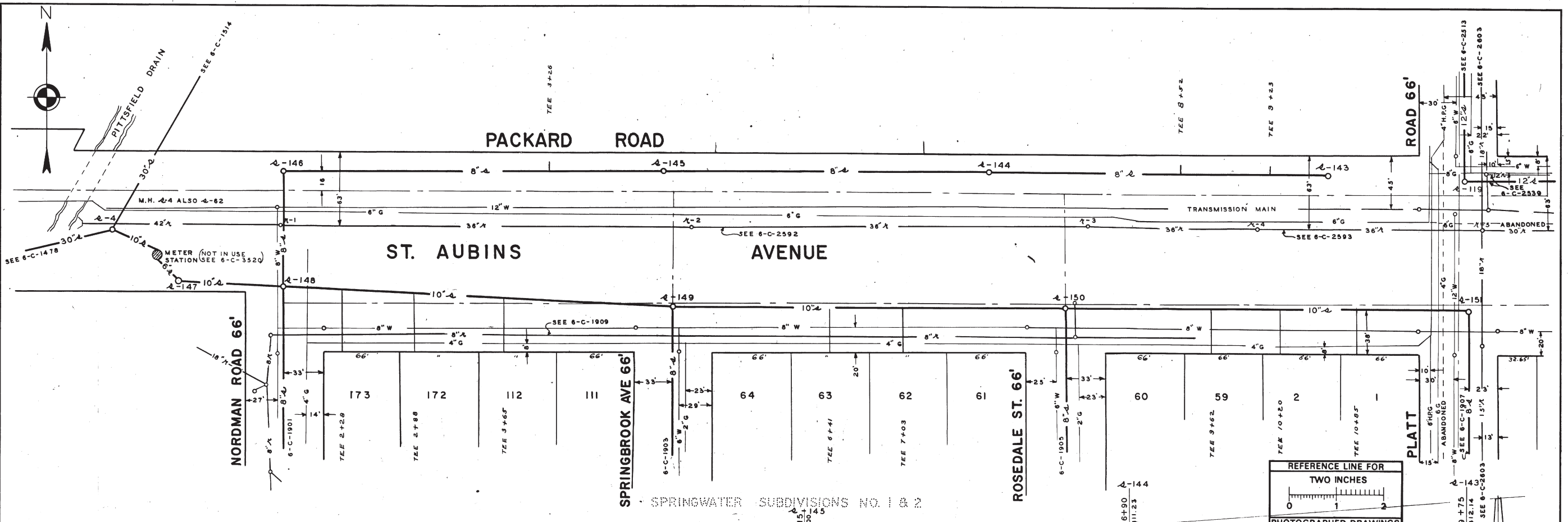
5.07 (Manhole Depth)

# Springwater Subdivision

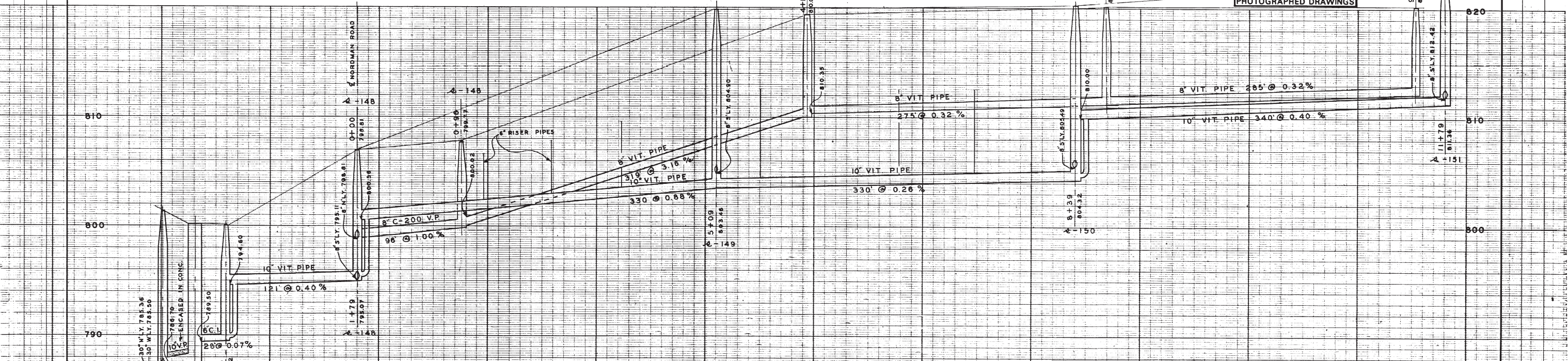
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REFERENCE LINE FOR  
TWO INCHES  
PHOTOGRAPHED DRAWINGS



DIGITAL STATUS  
DRAWN ON 5-5-03  
BY JMK  
DESIGNED BY JMS  
CHECKED BY  
DATE

METER VAULT NOT IN USE  
SEE 6-C-3520 FOR DETAILS

DATE: 4/64  
SHEET NO.: 3810  
INDEX NO.:  
SHELF NO.:  
6-C-1821  
SCALE: HORIZONTAL 1" = 40'  
VERTICAL 1" = 4'

SANITARY SEWER  
**PACKARD STREET  
AND  
ST. AUBINS AVENUE**  
PLATT RD. TO NORDMAN RD.  
FREDRICK A. MAMMEL  
SUPERINTENDENT OF PUBLIC WORKS

PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN

JOB _____	DIST. _____	PREPARED BY _____
JOB _____	DIST. _____	APPROVED BY _____
JOB _____	DIST. _____	
JOB _____	DIST. _____	

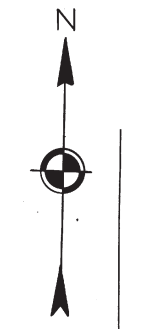
**LEGEND:**

—○—	EXISTING SANITARY SEWER	—●—	PROPOSED STORM SEWER
—○—	PROPOSED SANITARY SEWER	—●—	EXISTING WATER
—○—	EXISTING STORM SEWER	—●—	EXISTING GAS

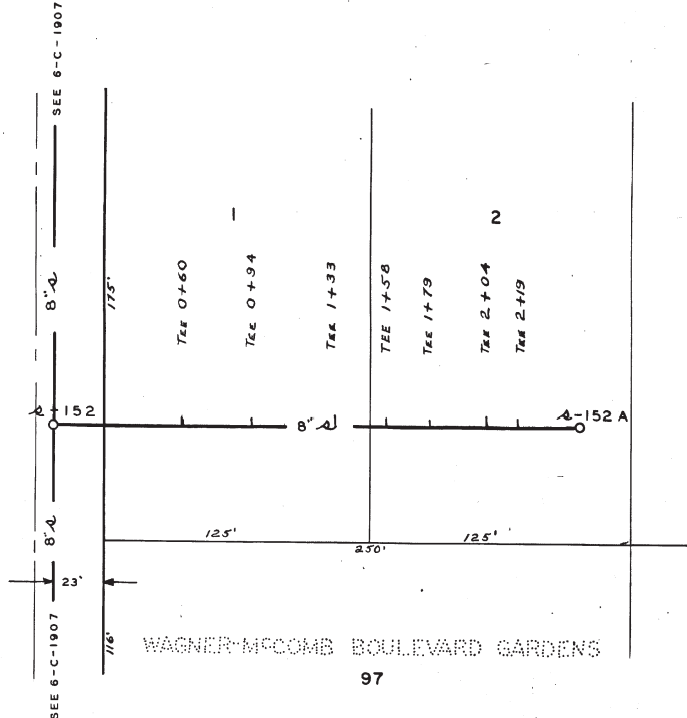
**REFERENCES:**

BENCH MARK \_\_\_\_\_ PROFILES BY \_\_\_\_\_  
DRAWINGS \_\_\_\_\_ FIELD BOOK \_\_\_\_\_  
BUILT BY FORMER CITY OF EAST ANN ARBOR IN 1955  
M.D.H. PERMIT NO. 11371 1/18/54

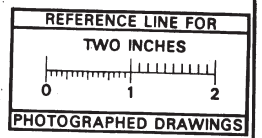
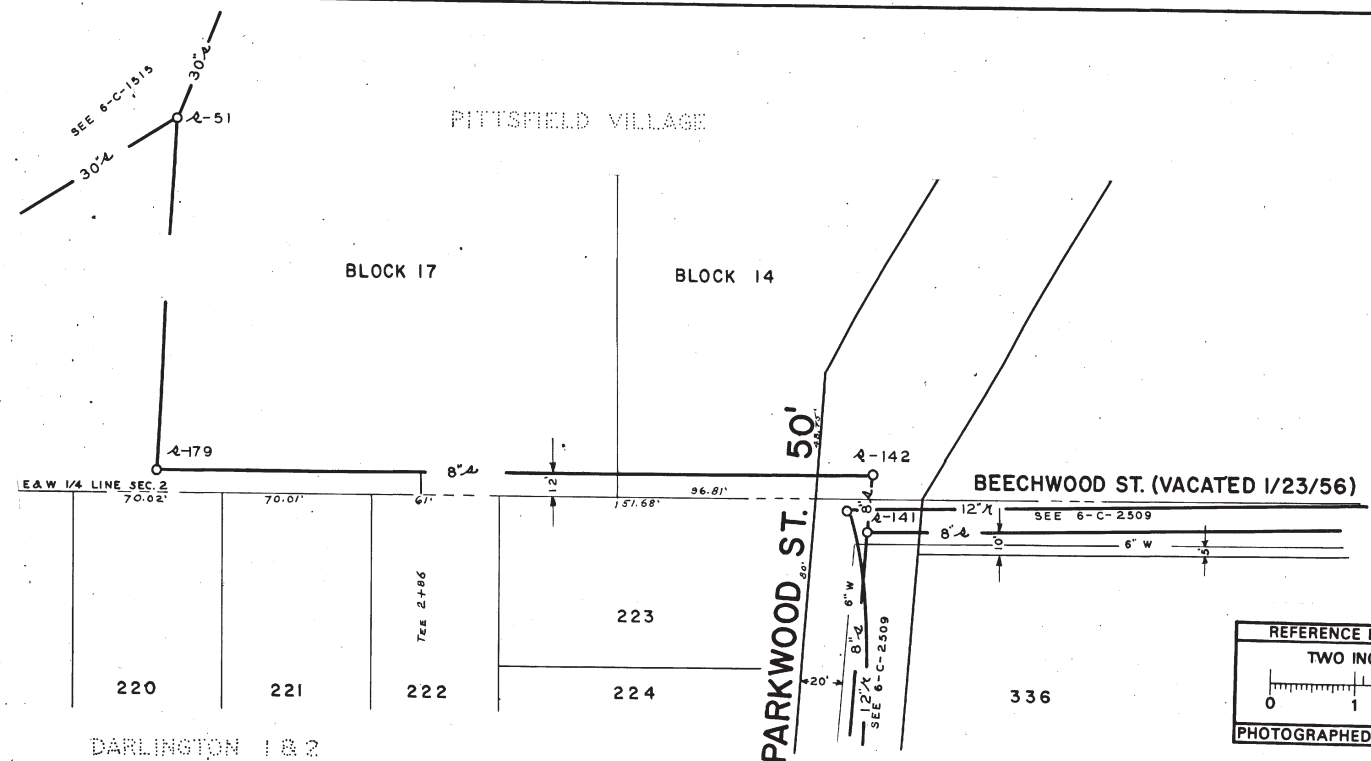




PLATT ROAD 66'



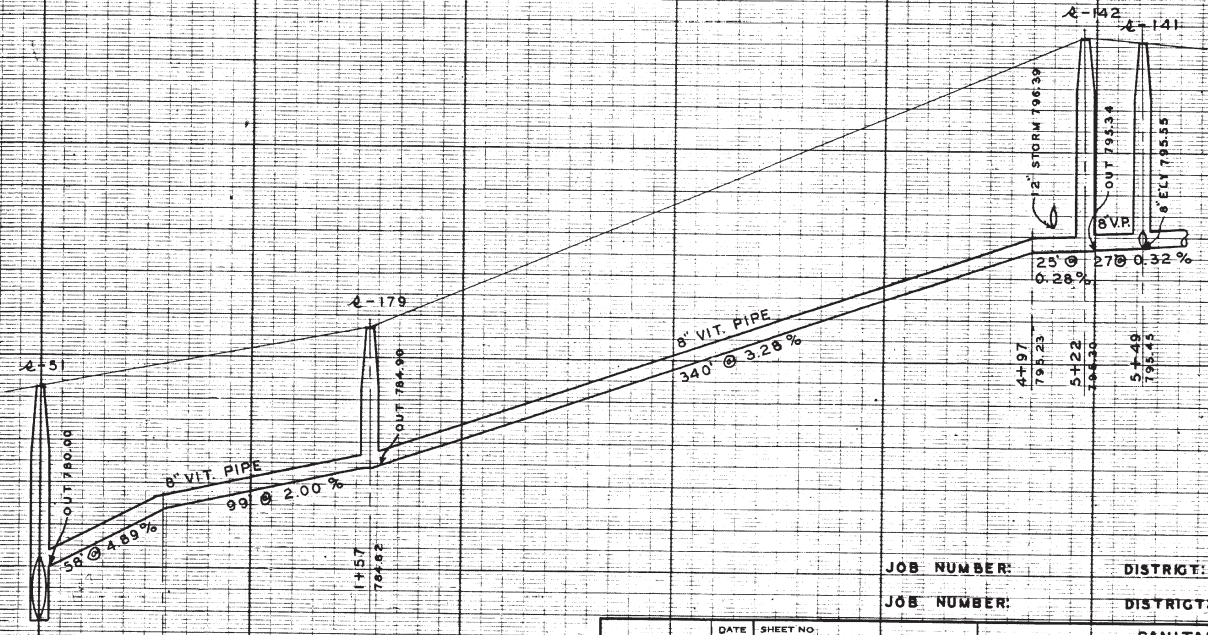
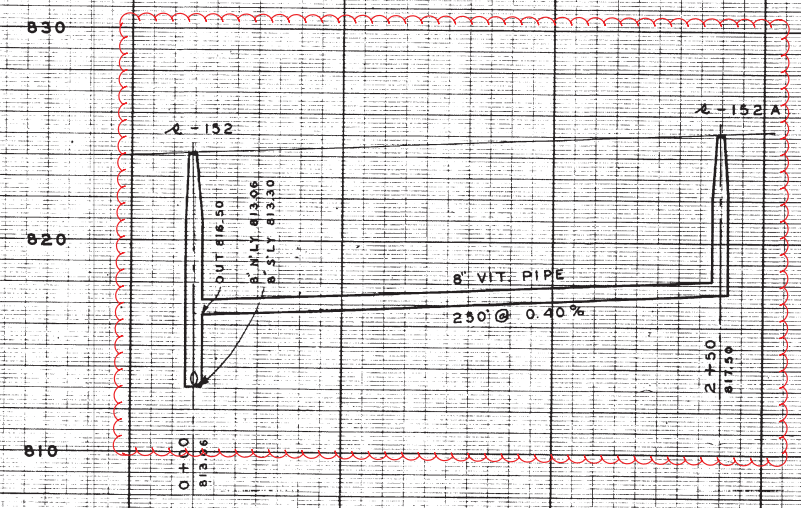
SPRINGWATER SUB. 1 & 2



- LEGEND**
- 4 ○ EXISTING SANITARY SEWER
  - 5 ○ PROPOSED SANITARY SEWER
  - X ○ EXISTING STORM SEWER
  - R ○ PROPOSED STORM SEWER
  - W — WATER
  - G — GAS

**REFERENCES**

BENCH MARK:  
DRAWINGS:  
PROFILES:  
FIELD BOOK: PAGE:  
810  
BUILT BY: FORMER CITY OF EAST-EAST ANN ARBOR IN 1955



DIGITAL STATUS  
DRAWN BY: SFB-105  
IN: DPK  
DESIGNED BY:  
CHECKED BY:  
DATE:

DR. BY: L.F.S. DATE: 2/64 SHEET NO: 362  
TR. BY: INDEX NO:  
CHK BY: SHEET NO:  
REVISIONS:

6-C-1823

JOB NUMBER: DISTRICT:  
JOB NUMBER: DISTRICT:  
SANITARY SEWER  
**CROSSLOTS**  
PLATT RD. ELY. TO LOTS 1&2  
AND  
PARKWOOD TO PITTSFIELD SEWER  
FREDRICK A. MAMMEL  
SUPERINTENDENT OF PUBLIC WORKS

M.D.H. PERMIT NUMBER: 11371 1/18/54

PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN

PREPARED BY MCNAMEE, PORTER & SEELEY





PACKARD ROAD 66'

ST. AUBIN AVENUE 50'

ROSEDALE STREET 66'

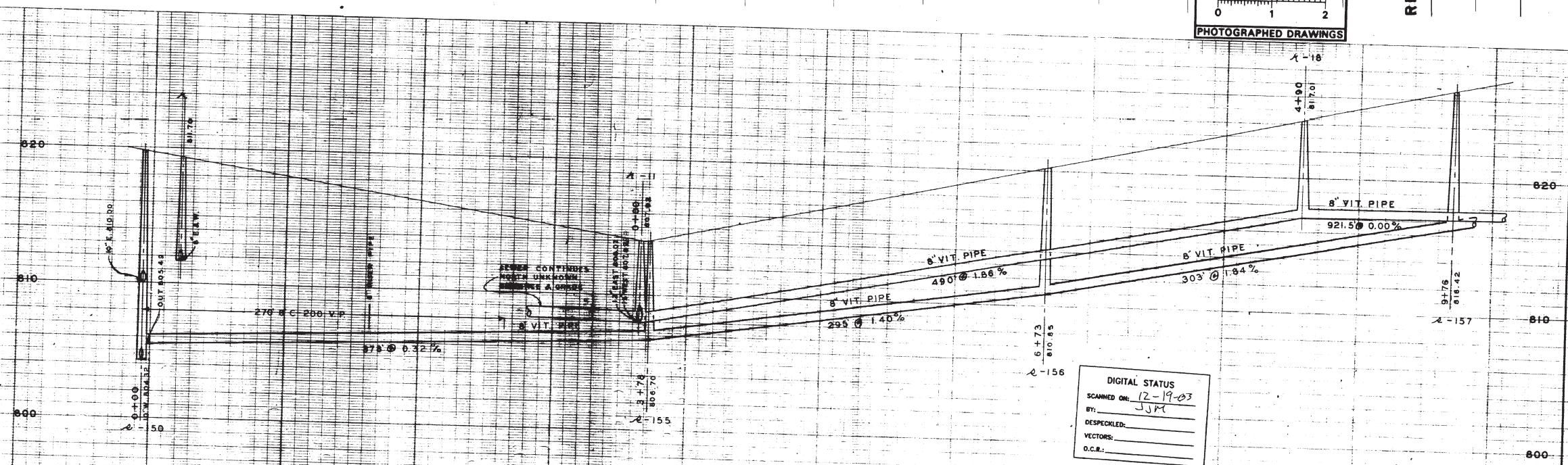
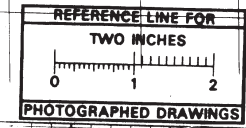
REDWOOD AVENUE 66'

REFERENCES  
DRAWINGS:  
PROFILES: 699BK. 699  
BENCH MARKS:

SAN: BUILT BY: FORMER CITY OF EAST ANN ARBOR IN 1955

DIGITAL STATUS  
SCANNED ON: 5/9/05  
BY: E.A.M.  
DESPECKLED: V.S.  
VECTORS:  
O.C.R.:

10' WIDE DRAINAGE EASEMENT  
L 2757 P. 967  
R.O.W. 60' WIDE  
(30' ON EACH SIDE OF DRAIN E.)  
LIB. 677 PG. 222-235



DIGITAL STATUS  
SCANNED ON: 12-19-03  
BY: JJK  
DESPECKLED:  
VECTORS:  
O.C.R.:

DR. BY: D.L.K.	DATE:	SHEET NO.:	INDEX NO. 3713
TR. BY: L.F.S.	3/85	SHELF NO.:	
CH. BY:		6-C-1905	
REVISION:		SCALE: HORIZONTAL: 1" = 40'	
SANITARY L.F.S. 12/63		VERTICAL: 1" = 4'	

STORM AND SANITARY SEWER  
**ROSEDALE STREET**  
PACKARD ROAD TO REDWOOD AVE.

GEO. H. SANDENBURGH  
CITY ENGINEER

CITY ENGINEER'S OFFICE - ANN ARBOR, MICHIGAN

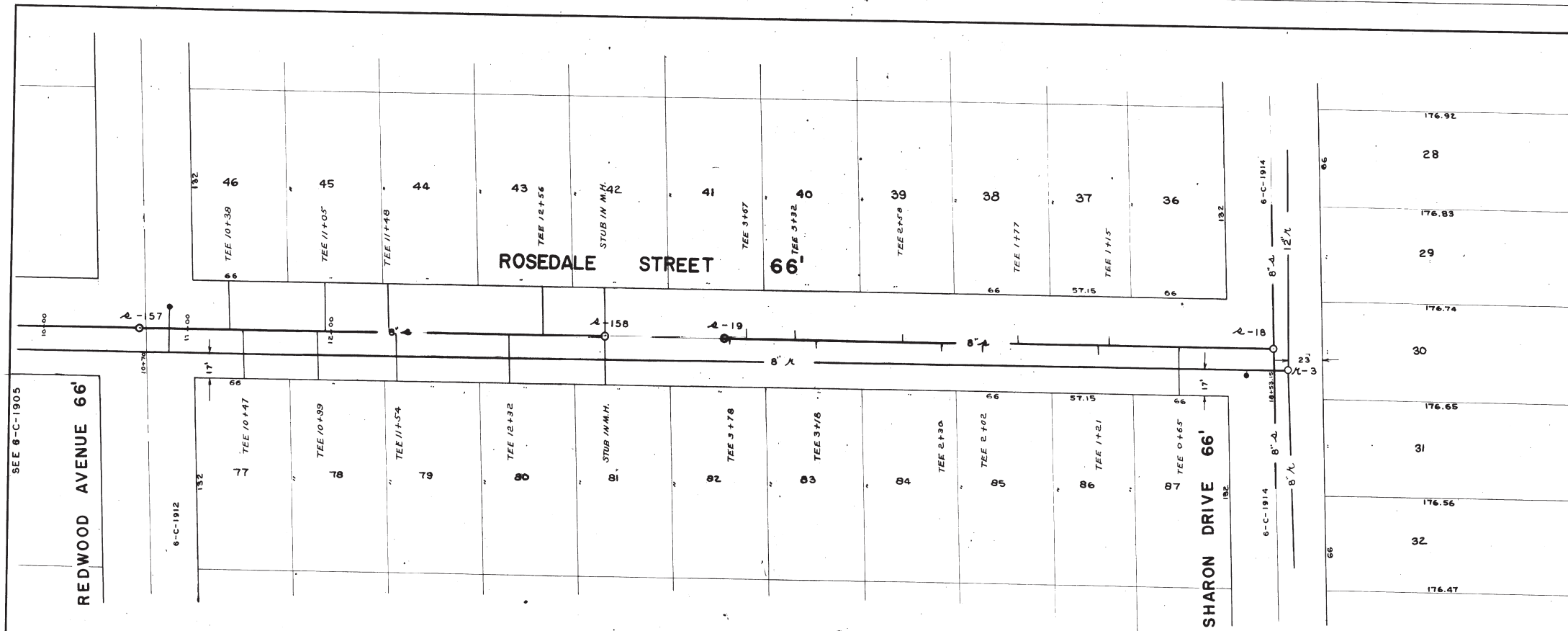
PREPARED BY McNAMEE, PORTER & SEELEY

M.D.H. PERMIT NO. 11371 1/18/54  
FOR OLD STORM SEWERS BUILT BY E.A.A.  
SEE JOB # 2451 3-F-356-A

SEE 6-C-1906

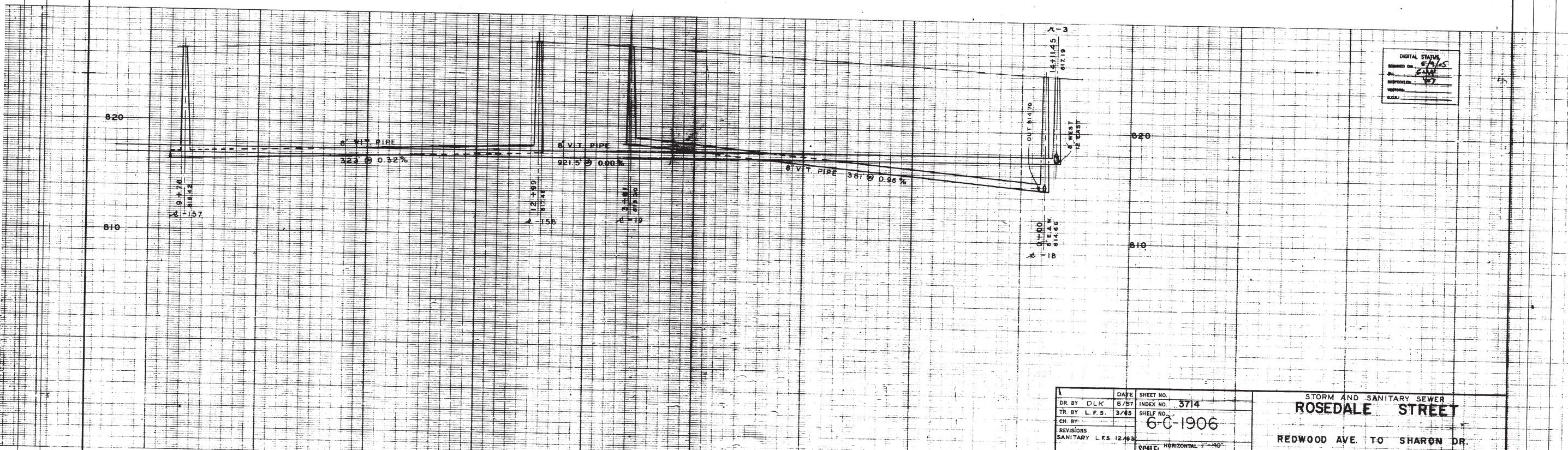
6-C-1912





REFERENCES

- DRAWINGS: REFERENCE LINE FOR TWO INCHES PHOTOGRAPHED DRAWINGS
- PROFILES:
- BENCH MARKS:
- SAN. BUILT BY: FORMER CITY OF EAST ANN ARBOR IN 1955



DIGITAL STATION	SCANNED ON	DATE
	5/1/05	
BY	E.A.A.	
REVISIONS	107	
DATE		
BY		

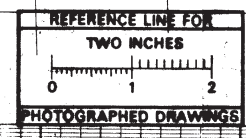
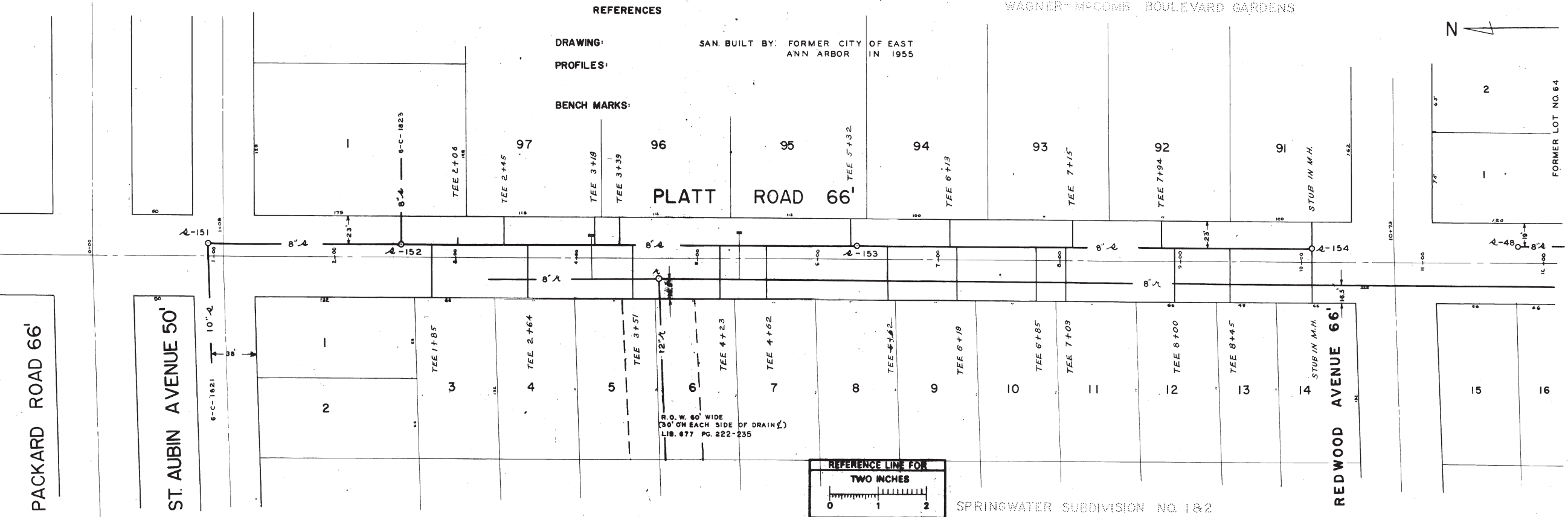
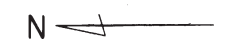
M.D.H. PERMIT NO. 11371 1/18/54  
 FOR OLD STORM SEWERS BUILT BY E.A.A.  
 SEE JOB #2451 3-F-356-A

DR. BY DLK	DATE 5/57	SHEET NO. 3714	STORM AND SANITARY SEWER <b>ROSEDALE STREET</b>
TR. BY L.F.S.	INDEX NO. 3/85	SHELF NO. 6-C-1906	
CH. BY	REVISIONS		REDWOOD AVE. TO SHARON DR.
SANITARY L.F.S. 12/83			GEO. H. SANDENBURGH CITY ENGINEER
SCALE: HORIZONTAL 1"=40' VERTICAL 1"=4'			CITY ENGINEER'S OFFICE - ANN ARBOR, MICHIGAN
PREPARED BY McNAMEE, PORTER & SEELEY			



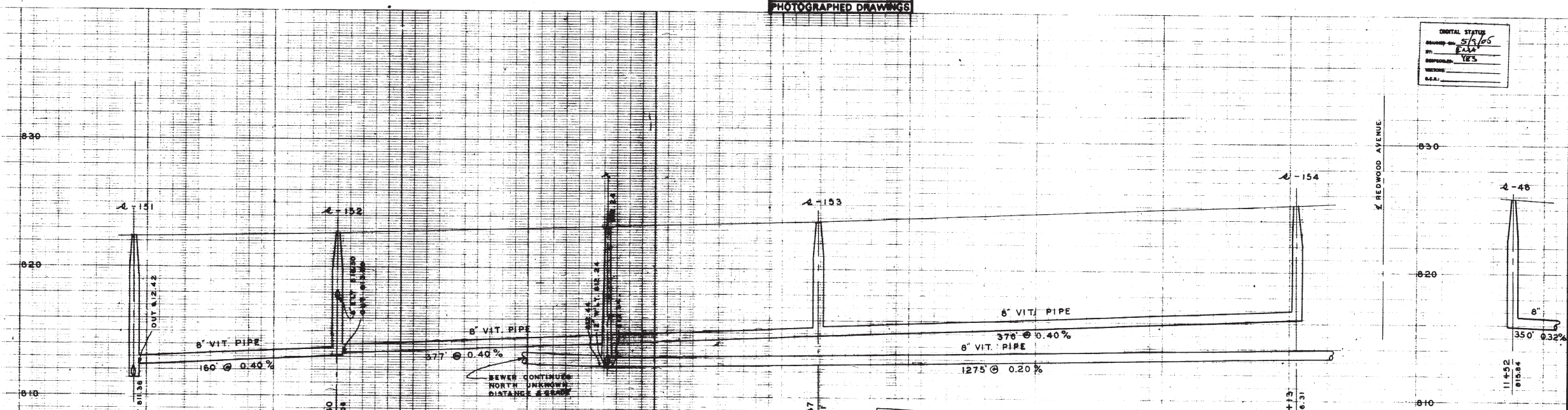
REFERENCES

DRAWING: SAN BUILT BY: FORMER CITY OF EAST ANN ARBOR IN 1955  
PROFILES:  
BENCH MARKS:



SPRINGWATER SUBDIVISION NO. 1 & 2

DIGITAL STATUS  
SCANNED ON: 5/15/05  
BY: E.A.A.  
REVISIONS: YES  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_



DIGITAL STATUS  
SCANNED ON: 12-19-03  
BY: JST  
DESPECIFIED:  
VECTORED:  
O.C.R.:

DIST 45649

DR. BY	DLK	DATE	5/6/7	SHEET NO.	
TR. BY	L.F.S.	3/6/5		INDEX NO.	3715
CH. BY				SHELF NO.	
REVISIONS					
SANITARY L.F.S. 1/84					
SCALE: HORIZONTAL 1" = 40'					
VERTICAL 1" = 4'					

STORM & SANITARY SEWER  
**PLATT ROAD**  
PACKARD ROAD TO REDWOOD AVE.  
GEO. H. SANDENBURGH  
CITY ENGINEER

M.D.H. PERMIT NO. 11371 1/18/54  
FOR OLD STORM SEWER BUILT BY E.A.A.  
SEE JOB #2451 3-F-356-A

CITY ENGINEER'S OFFICE - ANN ARBOR, MICHIGAN  
PREPARED BY MCNAMEE, PORTER & SEELEY

SEE 6-C-2002

FORMER LOT NO. 84



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

WAGNER M' COMB BOULEVARD GARDENS

PLATT ROAD 66'

SHARON DR. 66'

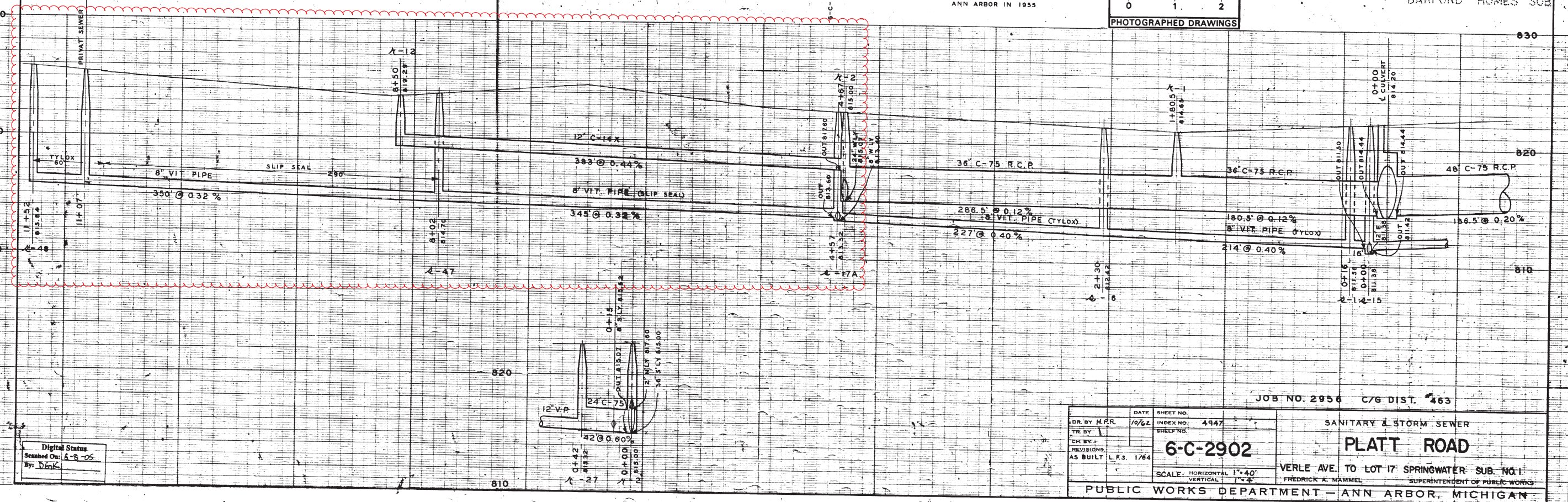
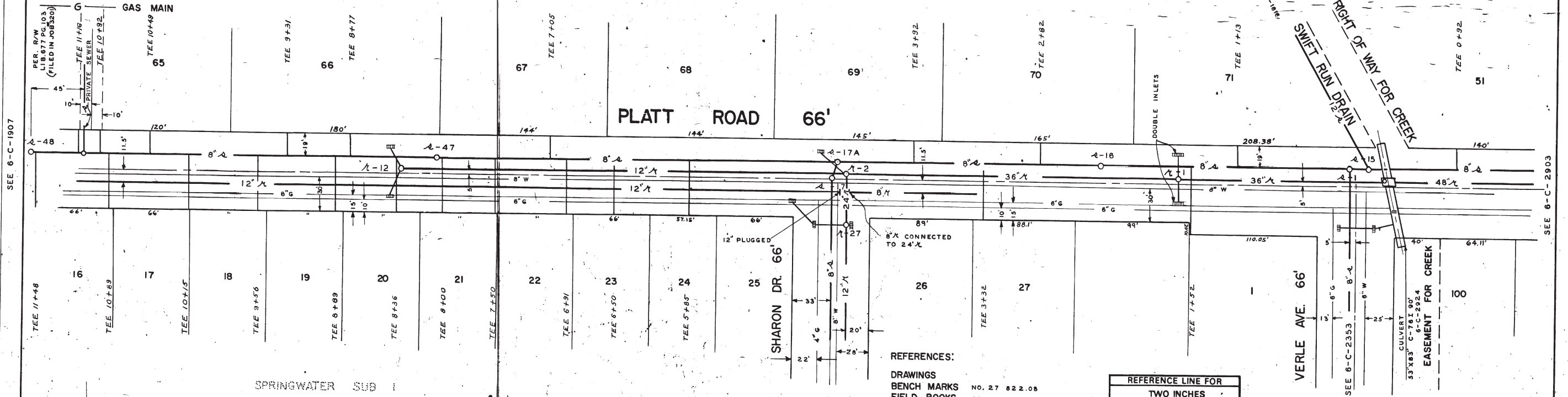
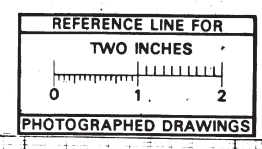
VERLE AVE. 66'

SWIFT RUN DRAIN  
RIGHT OF WAY FOR CREEK

BARFORD HOMES SUB

**REFERENCES:**

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BENCH MARKS 800 PG. 8-34  
FIELD BOOKS SAN. BUILT BY FORMER CITY OF EAST ANN ARBOR IN 1955

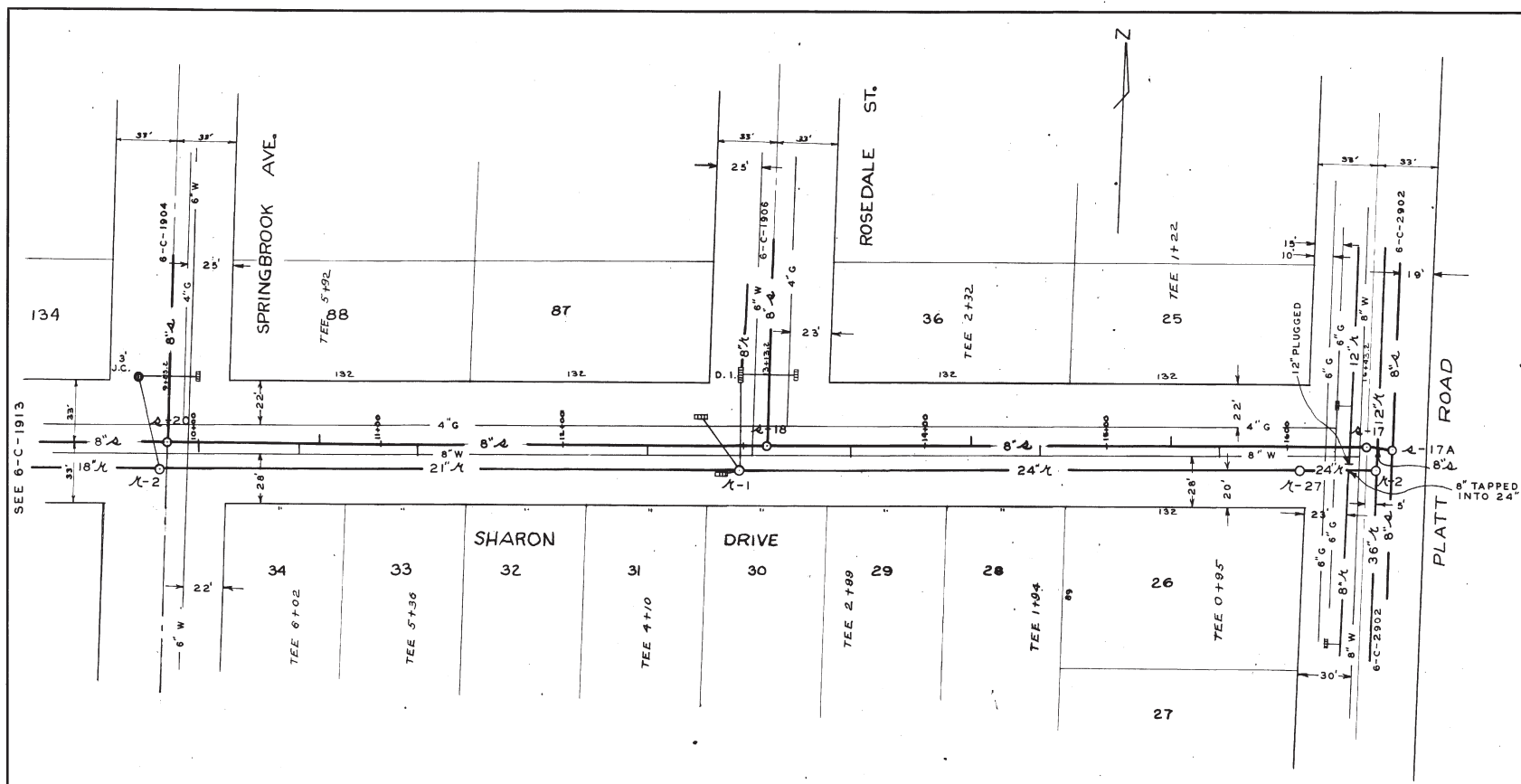


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Scanned On: 6-8-05  
By: DICK

JOB NO. 2956 C/G DIST. 463	
DATE 10/62	SHEET NO. 4947
INDEX NO. 4947	INDEX NO. 4947
<b>6-C-2902</b>	
<b>PLATT ROAD</b>	
VERLE AVE. TO LOT 17 SPRINGWATER SUB NO. 1	
FREDERICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS	
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN	

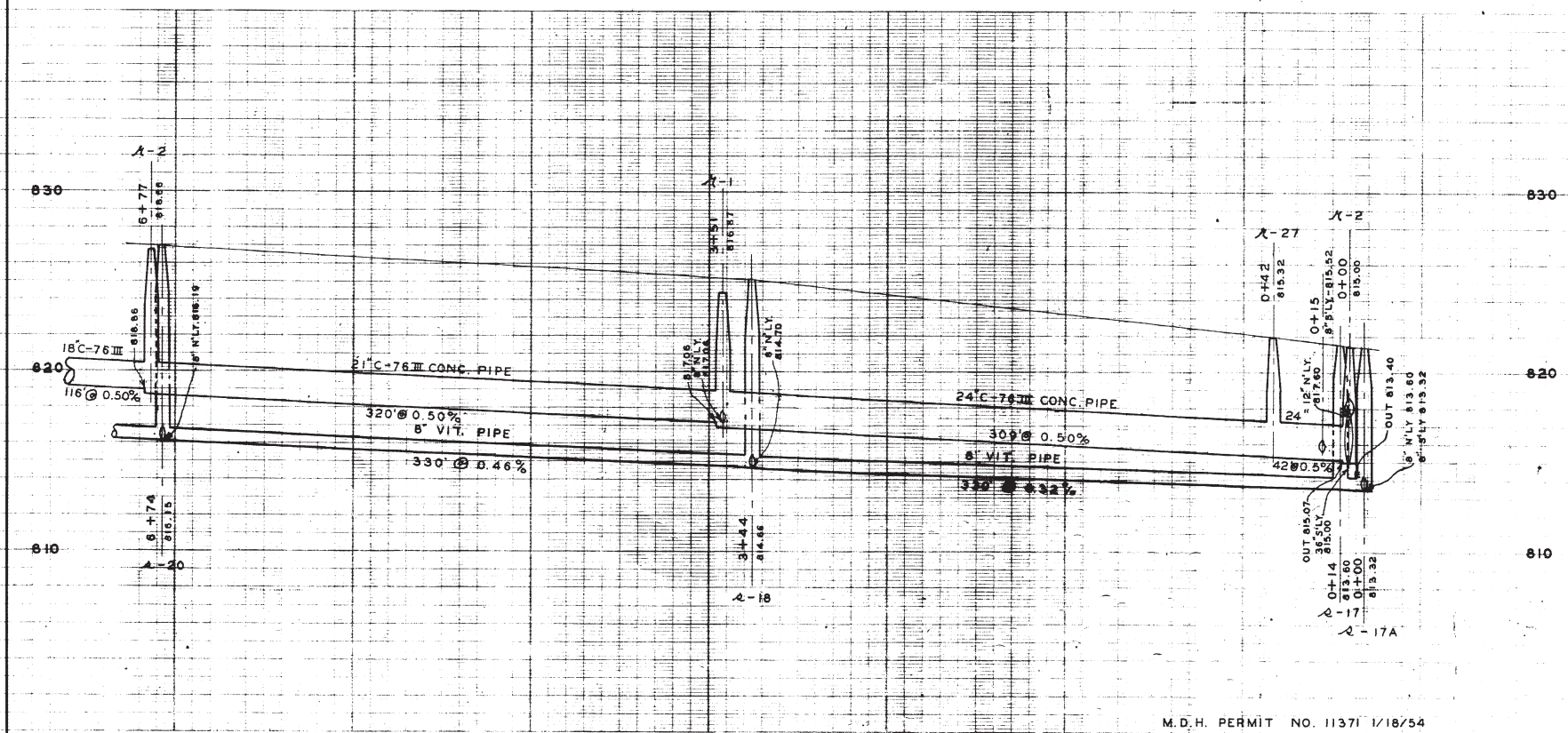
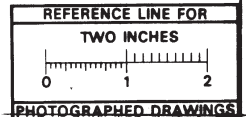
PREPARED BY MCNAMEE, PORTER & SEELY





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 SAN. BUILT BY: FORMER CITY OF EAST ANN ARBOR IN 1955

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



M.D.H. PERMIT NO. 11371 1/18/54  
 FOR OLD STORM SEWERS BUILT BY E.A.A.  
 SEE JOB # 2451 3-F-356-A

JOB 607 3626 DIST. 55

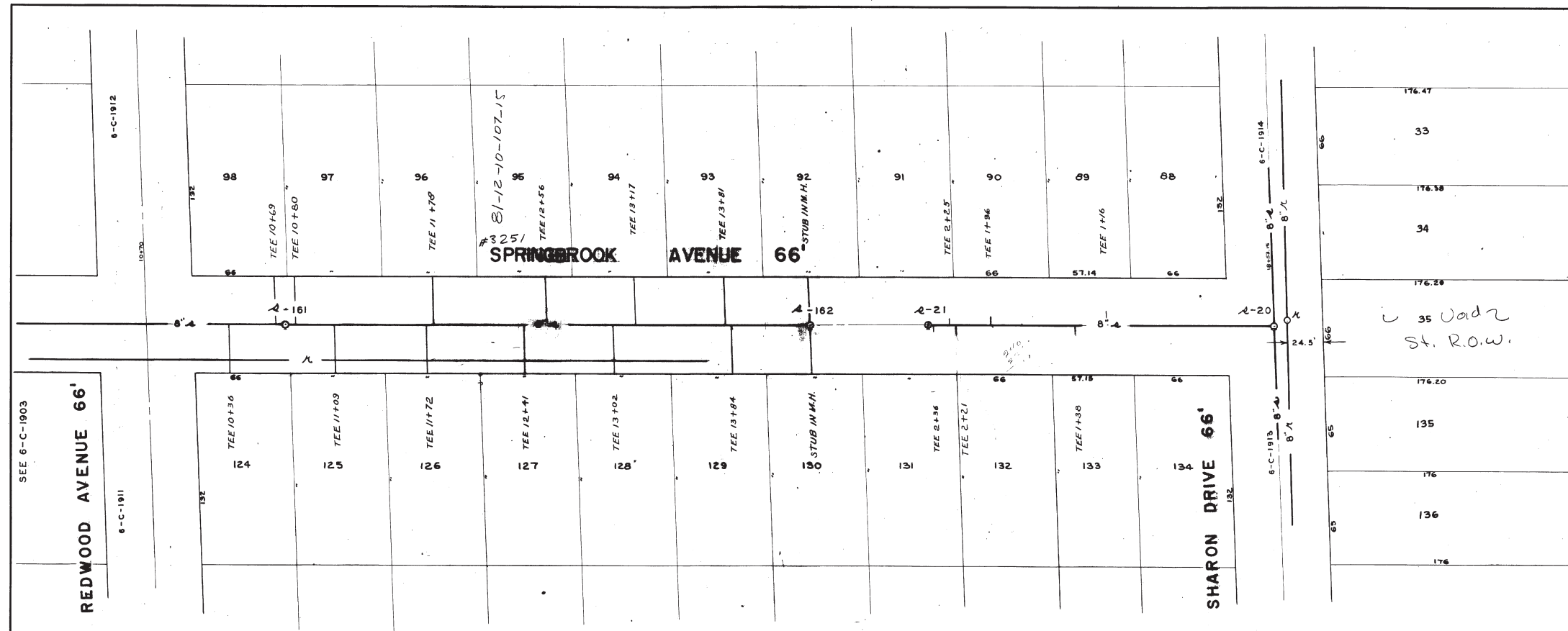
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TR. BY L.F.S.	INDEX NO.	SHELF NO.
CH. BY	6-C-1914	
REVISIONS	L.F.S. 1/84	
SANITARY	L.F.S. 7/89	
STORM		

SANITARY & STORM SEWER  
 SHARON DRIVE  
 CURB & GUTTER  
 SPRINGBROOK TO PLATT ROAD  
 GEO. H. SANDENBURGH CITY ENGINEER

CITY ENGINEER'S OFFICE - ANN ARBOR, MICHIGAN

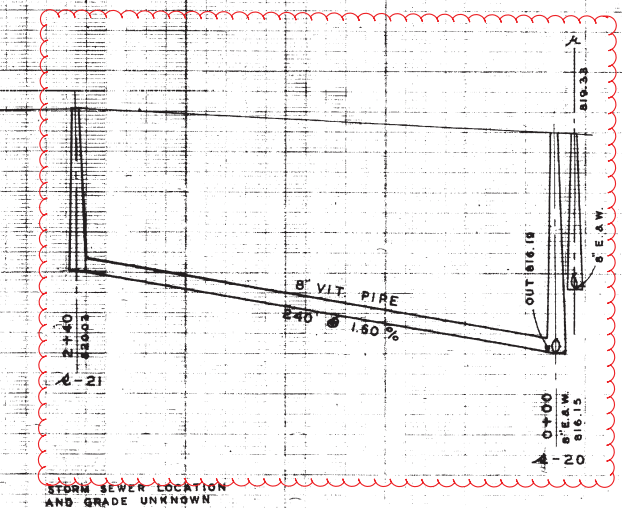
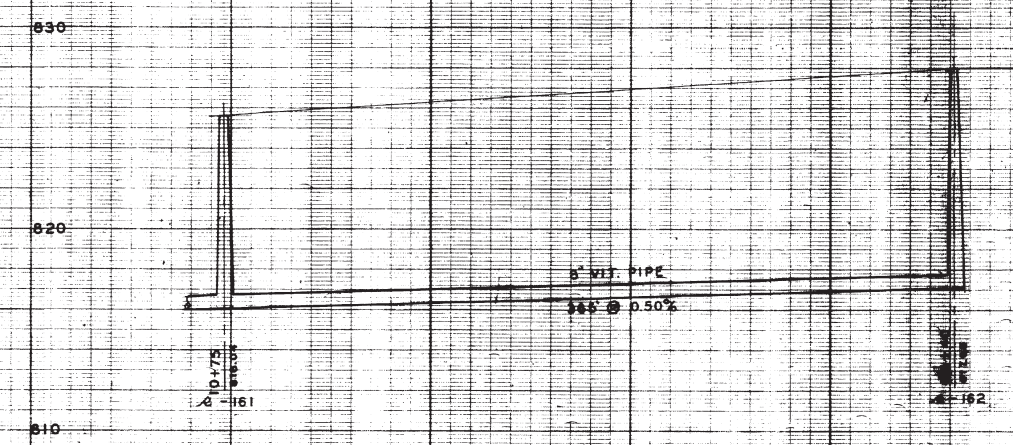
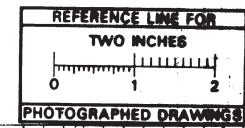
PREPARED BY MCNAMEE PORTER & SEELEY





REFERENCES  
DRAWINGS:  
PROFILES:  
BENCH MARKS:  
SAN. BUILT BY: FORMER CITY OF EAST ANN ARBOR IN 1955

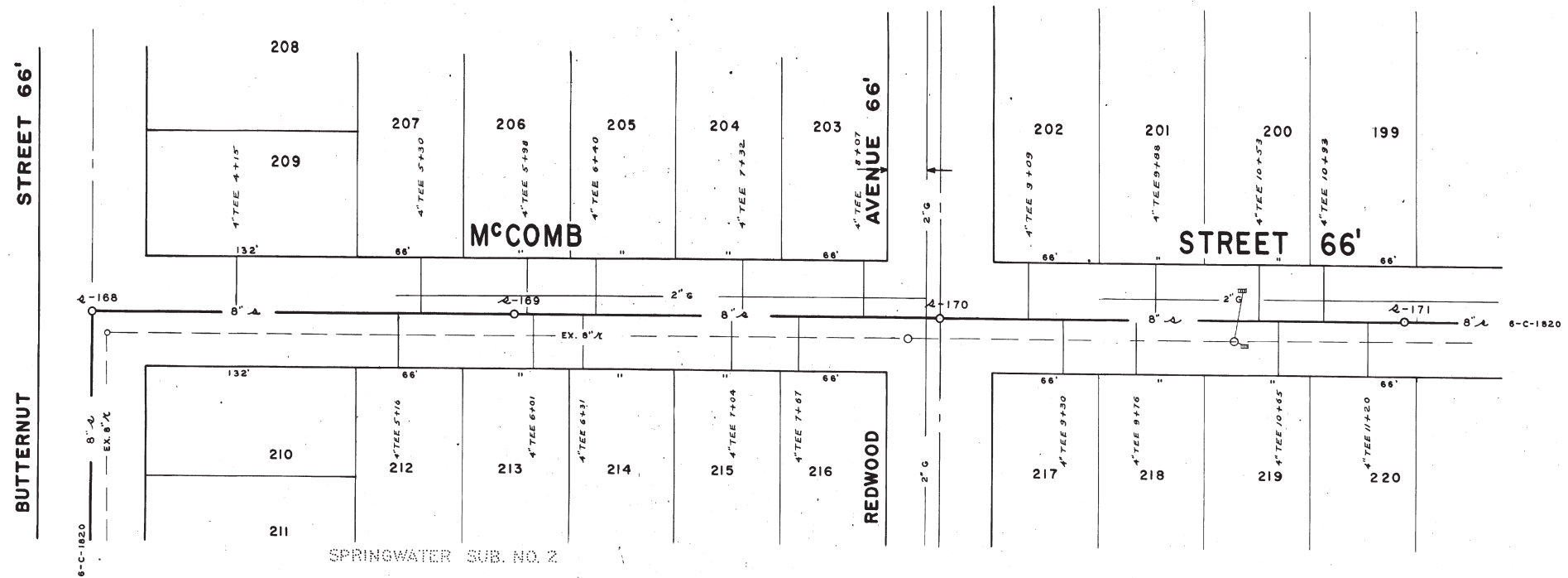
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BY: E.A.A.  
REPRODUCTION: YES  
VECTORS:  
D.C.A.:



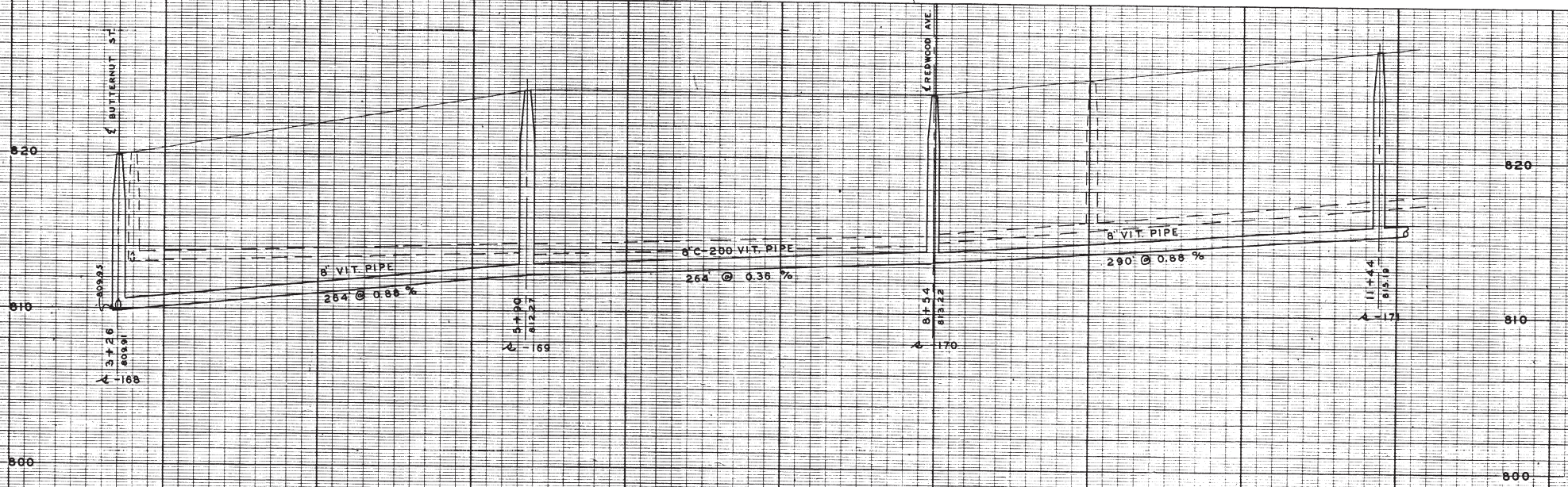
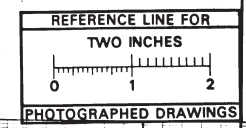
M.D.H. PERMIT NO. 11371 1/18/54  
FOR OLD STORM SEWERS BUILT BY E.A.A.  
SEE JOB #2451 3-F-356-A

DR. BY DLK	DATE 5-37	SHEET NO. 3712	SANITARY AND STORM SEWER <b>SPRINGBROOK AVENUE</b>
TR. BY	INDEX NO.	SHELF NO.	
CH. BY	6-C-1904		REDWOOD AVE. TO SHARON DR.
REVISIONS	SCALE: HORIZONTAL 1" = 40' VERTICAL		GEO. H. SANDENBURGH CITY ENGINEER
SANITARY L.F.S. 12/63	CITY ENGINEER'S OFFICE - ANN ARBOR, MICHIGAN		PREPARED BY MCNAMEE, PORTER & SEELEY.





11744  
10193  
S1



DIGITAL STATUS
RECORDED ON 5-6-04
BY: DPK
EXPIRES: 1/1/11
VERSION
DATE

DATE	10/64	SHEET NO.	3608
DR. BY	L.F.S.	INDEX NO.	
TR. BY		SHEET NO.	
CH. BY			
REVISIONS			
<b>6-C-1819</b>			
SCALE: HORIZONTAL 1"=4'		VERTICAL 1"=4'	
FREDRICK A. MAMMEL		SUPERINTENDENT OF PUBLIC WORKS	

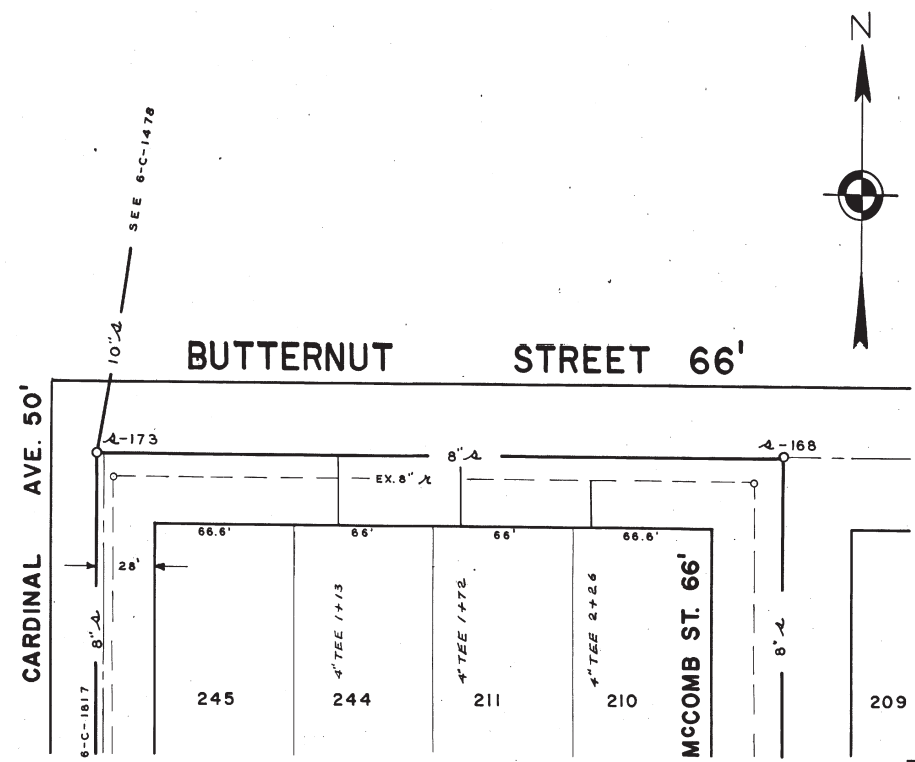
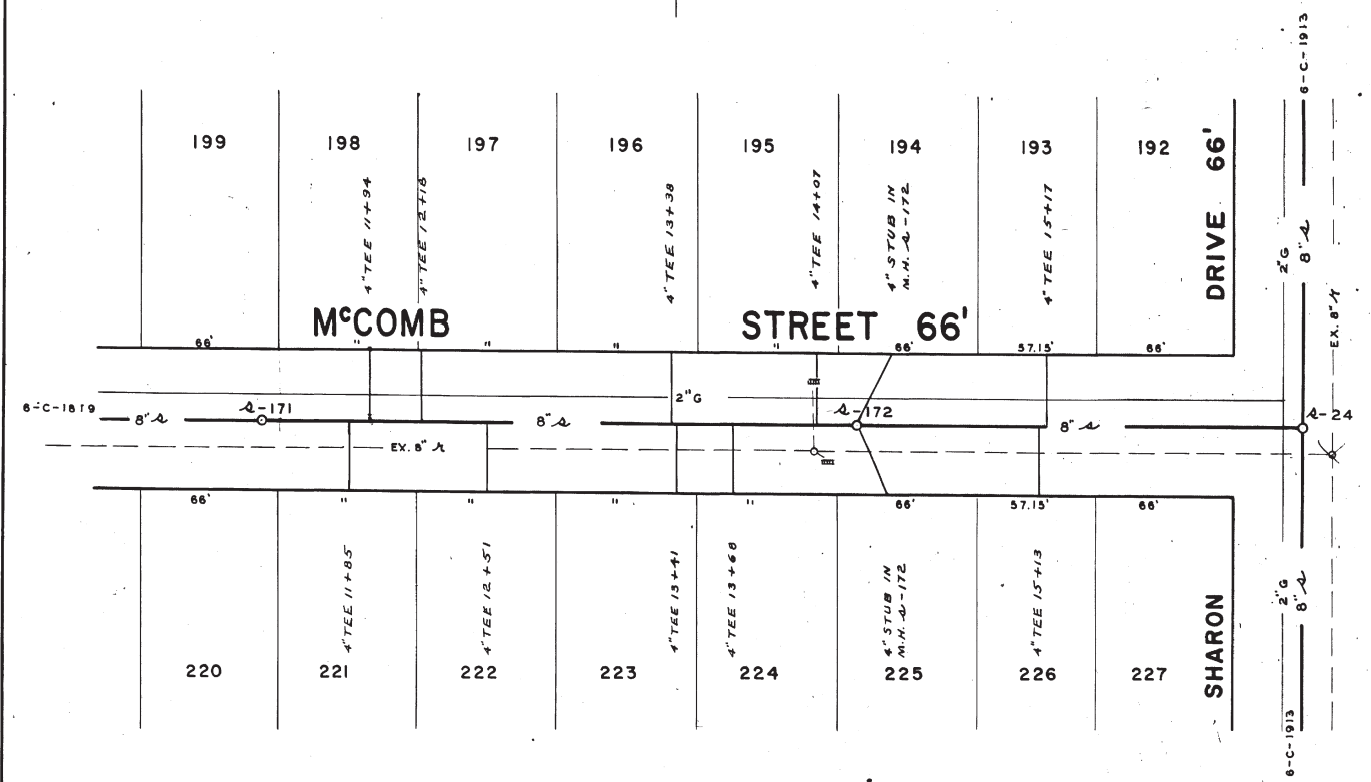
**SANITARY SEWER**  
**M'COMB STREET**  
BUTTERNUT TO 500' N. OF SHARON DR.

<b>LEGEND:</b>	UNDERGROUND UTILITIES	EXISTING SANITARY	PROPOSED SANITARY	EXISTING STORM	PROPOSED STORM	EXISTING GAS	EXISTING WATER
PROFILES	CENTER LINE	LEFT PROPERTY LINE	RIGHT PROPERTY LINE				

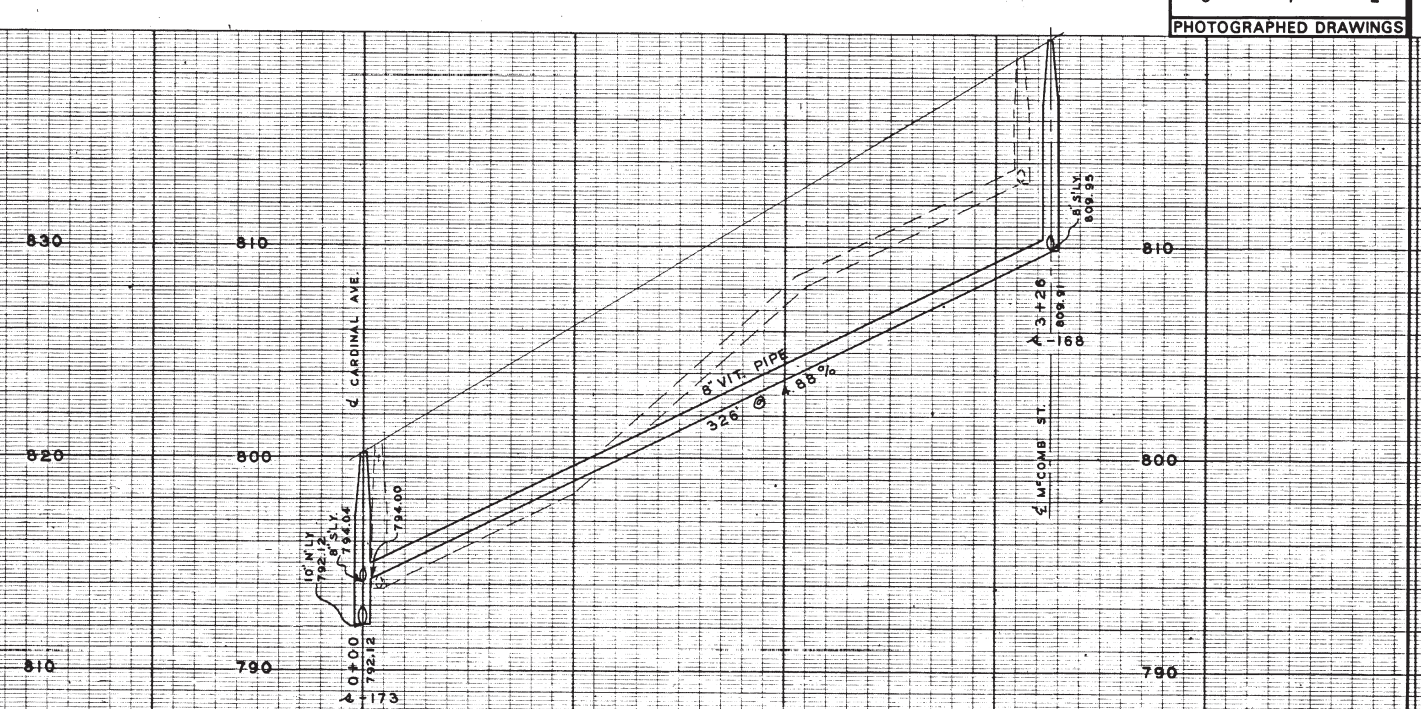
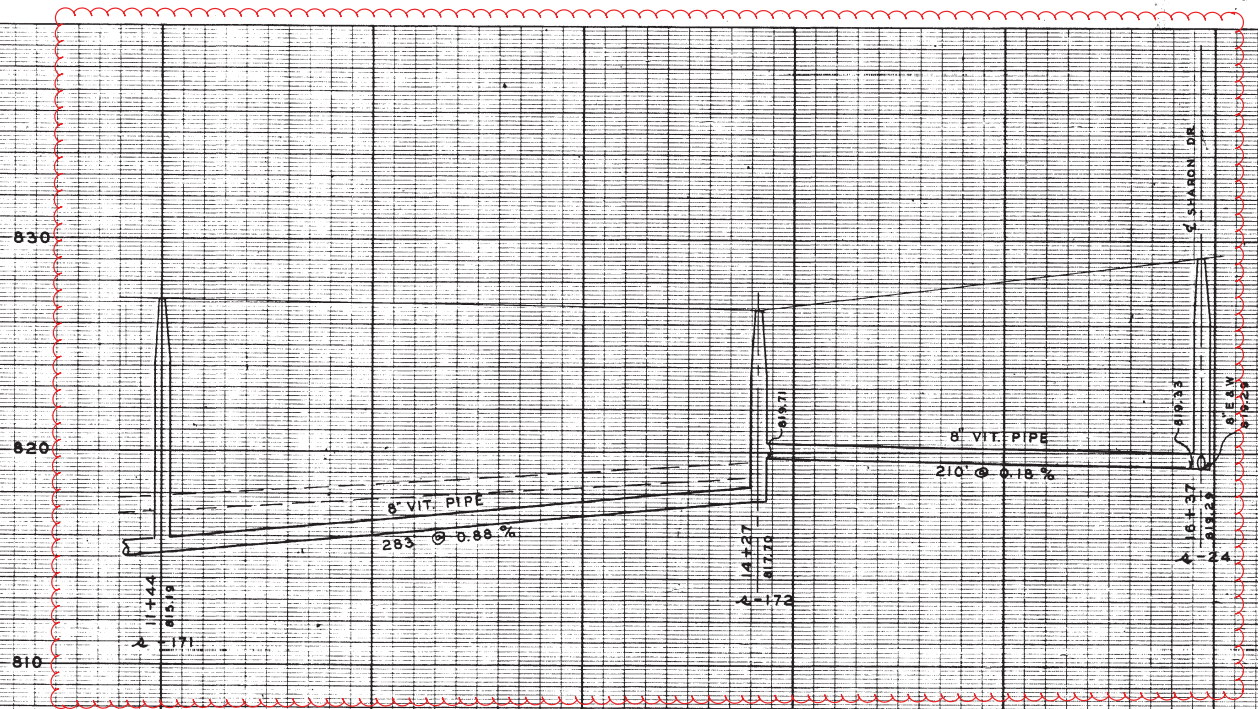
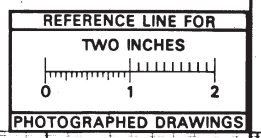
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DRAWINGS \_\_\_\_\_ FIELD BOOK \_\_\_\_\_  
BUILT BY FORMER CITY OF EAST ANN ARBOR IN 1955

JOB	DIST.	
JOB	DIST.	
JOB	DIST.	
JOB	DIST.	
APPROVED BY _____		





SPRINGWATER SUBDIVISION  
NO. 2



DIGITAL STATUS  
DRAWN BY S-B-05  
CHECKED BY [Signature]  
DESIGNED BY [Signature]  
DATE [Signature]  
D.C.R.

DR. BY L.F.S. DATE 10/64 SHEET NO. 3609  
INDEX NO.  
CH. BY  
REVISIONS  
**6-C-1820**

SANITARY SEWER  
**MCCOMB STREET**  
SHARON DR. TO 500' N.  
**BUTTERNUT STREET**  
CARDINAL AVE. TO MCCOMB ST.  
FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS

LEGEND:	UNDERGROUND UTILITIES	—○—○— EXISTING SANITARY	—○—○— EXISTING STORM	—G— EXISTING GAS	—W— EXISTING WATER
	PROFILES	—●—●— PROPOSED SANITARY	—●—●— PROPOSED STORM		
		— — — — — CENTER LINE	— — — — — RIGHT PROPERTY LINE		
		— — — — — LEFT PROPERTY LINE			

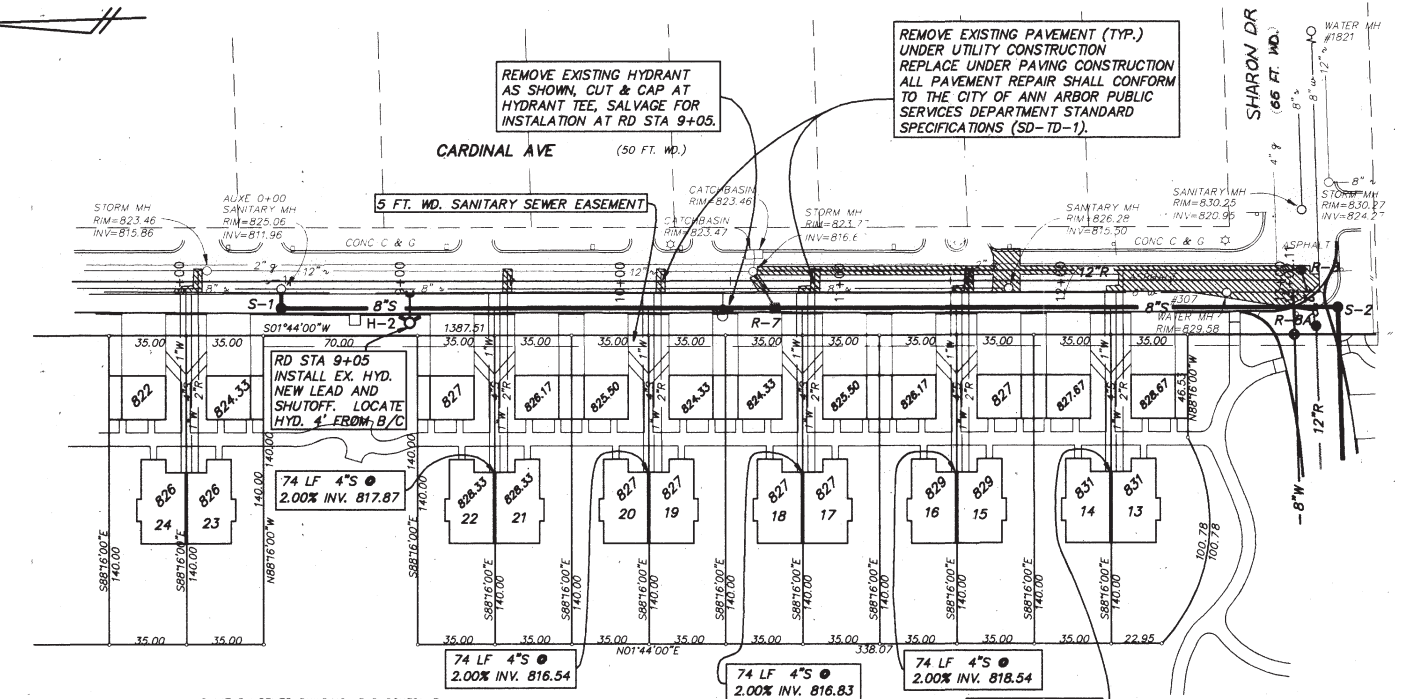
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DRAWINGS \_\_\_\_\_ FIELD BOOK \_\_\_\_\_  
BUILT BY FORMER CITY OF EAST ANN ARBOR IN 1955  
M.D.H. PERMIT NO. 11371 1/18/54

PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN  
JOB \_\_\_\_\_ DIST. \_\_\_\_\_  
JOB \_\_\_\_\_ DIST. \_\_\_\_\_  
JOB \_\_\_\_\_ DIST. \_\_\_\_\_  
PREPARED BY MCNAMEE, PORTER & SEELEY  
APPROVED BY \_\_\_\_\_



UNITS	F.F.	INVERT ELEVATION AT TERMINAL END OF SAN. LEAD AT BLDG.	LENGTH	TEE/WYE INVERT	INVERT AT 8" MAIN STATIONING	UTILITY STATIONING	CENTERLINE STATION	LEAD SIZE	RISER HEIGHT
1 & 2	834.33	823.87	74' @ 2"	816.08	815.41	AUXE 5+55	0+83	4"	6.31
3 & 4	833.00	822.54	74' @ 2"	816.50	815.83	AUXE 6+25	1+51	4"	4.56
5 & 6	831.33	820.87	75' @ 2"	816.93	816.26	AUXE 6+98	2+23	4"	2.44
7 & 8	829.33	818.87	75' @ 2"	817.32	816.67	S-3	2+97	4"	0.00
9 & 10	828.33	818.37	93' @ 1"	817.40	816.67	S-3	2+97	6"	0.00
11 & 12	828.00	818.95	92' @ 2"	816.91	816.24	AUXE 6+93	2+20	4"	0.00
13 & 14	831.00	820.54	74' @ 2"	814.86	814.20	AUXE 3+85	12+22	4"	4.10
15 & 16	829.00	818.54	74' @ 2"	814.61	813.94	AUXE 3+15	11+52	4"	2.45
17 & 18	827.00	816.83	74' @ 2"	814.27	813.60	AUXE 2+46	10+83	4"	1.08
19 & 20	827.00	816.54	74' @ 2"	813.92	813.25	AUXE 1+76	10+13	4"	1.14
21 & 22	828.33	817.87	74' @ 2"	813.57	812.90	AUXE 1+06	9+43	4"	2.82

ALL SANITARY SEWER LEADS SHALL BE EITHER SDR 35(PVC) OR C700 ES VCP.  
SEE SHEET 5 OF 10 FOR PLAN VIEW



SANITARY SEWER BUILDING LEAD SCHEDULE  
LOTS 23 - 36

UNITS	F.F.	INVERT ELEVATION AT TERMINAL END OF SAN. LEAD AT BLDG.	LENGTH	TEE/WYE INVERT	INVERT AT 8" MAIN STATIONING	UTILITY STATIONING	CENTERLINE STATION	LEAD SIZE	RISER HEIGHT
23 & 24	826.00	812.50	88' @ 2"	811.69	811.34	AUXH 5+37	8+03	4"	1.73
25 & 26	824.00	811.40	88' @ 2"	811.86	810.33	AUXH 4+67	7+33	4"	0.74
27 & 28	823.00	810.50	88' @ 3"	809.99	809.32	AUXH 3+97	6+63	4"	0.00
29 & 30	823.00	808.45	88' @ 1.5"	808.22	808.31	AUXH 3+27	5+93	6"	2.20
31 & 32	819.00	807.17	88' @ 2"	806.70	805.57	AUXH 1+87	4+53	4"	0.50
33 & 34	817.00	805.03	88' @ 2"	804.57	803.88	AUXH 1+17	3+83	4"	0.00
35 & 36	815.00	803.91	88' @ 2"	803.44	802.19	AUXH 0+47	3+13	4"	0.00

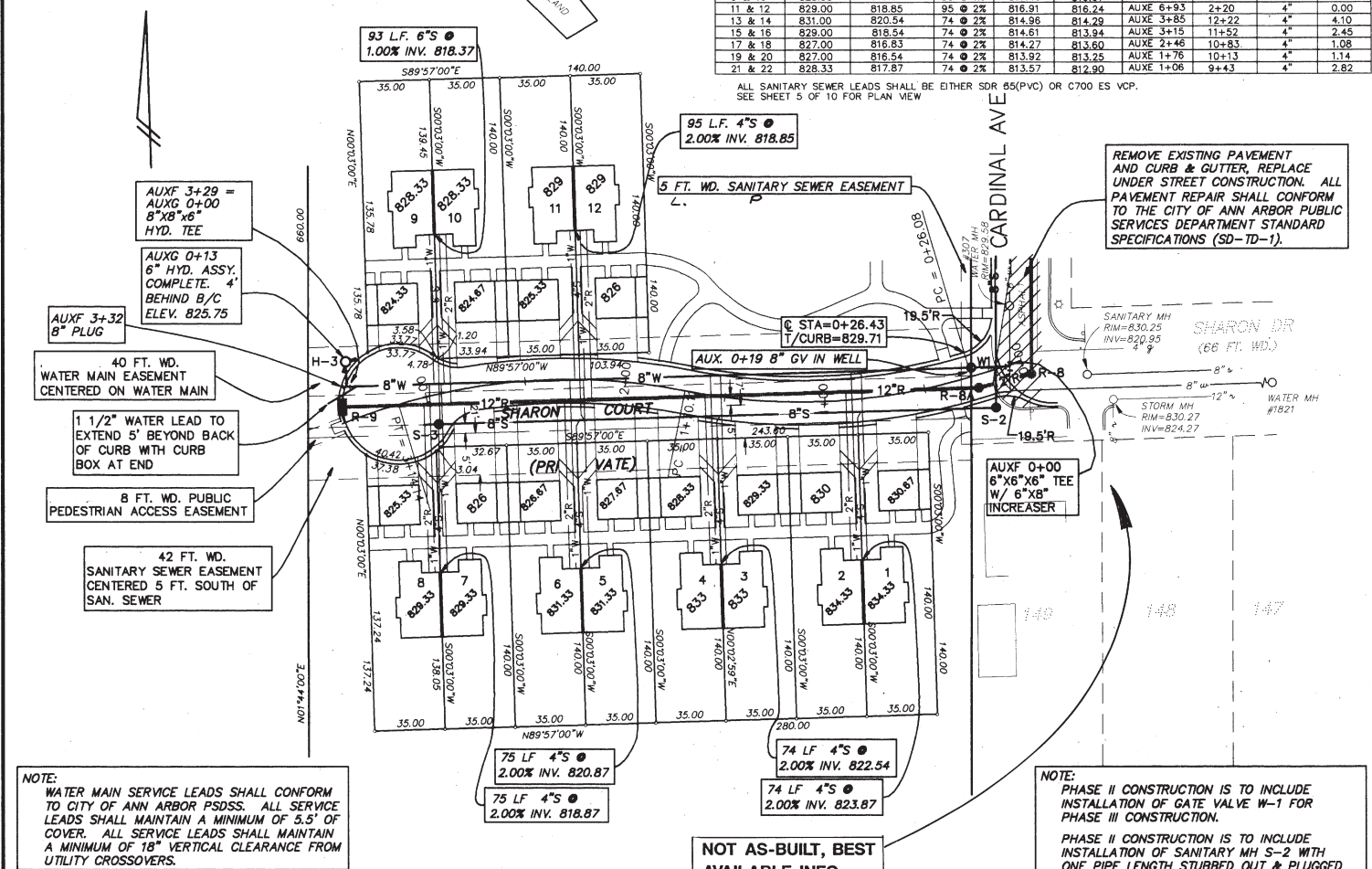
ALL SANITARY SEWER LEADS SHALL BE EITHER SDR 35(PVC) OR C700 ES VCP.  
SEE SHEET 5 OF 10 FOR PLAN VIEW

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

AS-BUILT WATER DRAWING  
CORRECTED 11-2001  
MDE PERMIT NO. 967040 W  
IN SERVICE DATE (MO/YR) 03-1997  
CONTRACTOR PERKINS CONS. CO.

STRUCTURE	CENTERLINE ROAD STATION	OFFSET	TYPE	EAST JORDAN CASTING	CASTING ELEVATION	INVERT	DEPTH	COMMENTS	UTILITY STATIONING
S-1	8+46	12.4' RT.	4.0' DIA.	1040A	824.62	812.21	12.41		AUXE 0+09
S-2	13+26	12.8' RT.	4.0' DIA.	1040A	829.95	814.81	15.14		AUXE 4+88
S-3	2+97	14.8' LT.	4.0' DIA.	1040A	825.70	816.67	8.09		AUXE 7+65
W-1	0+25	4.0' RT.	5.0' DIA.	1040A	829.76	-	-	823.95 TOP OF WM	AUXF 0+19
H-3	3+32	26.0' RT.	HYDRANT	-	825.75	-	-		AUXF 3+29

ALL SANITARY SEWER LEADS SHALL BE EITHER SDR 35(PVC) OR C700 ES VCP.

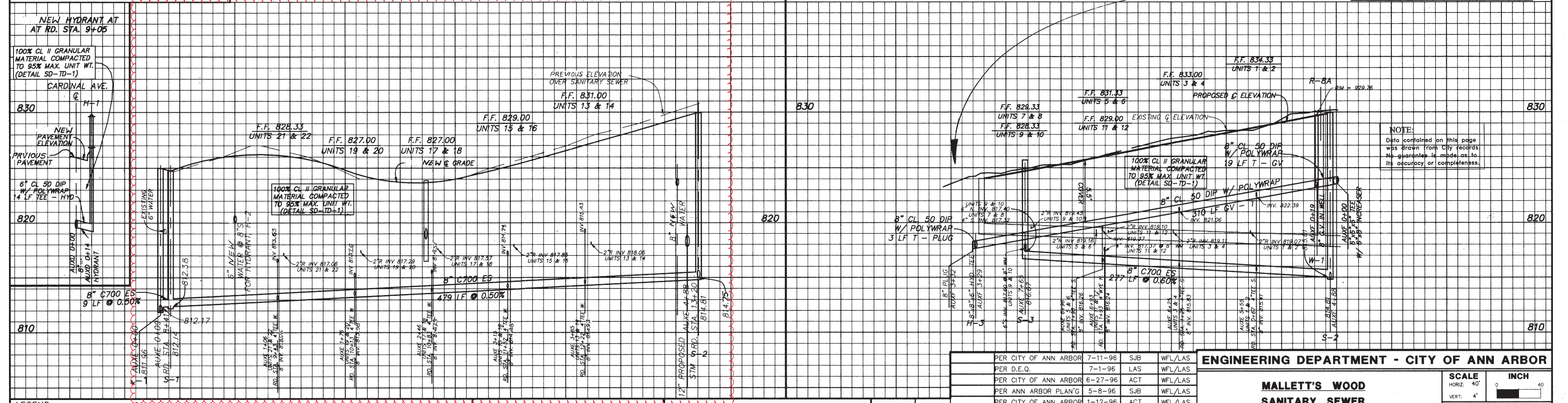


NOTE:  
WATER MAIN SERVICE LEADS SHALL CONFORM TO CITY OF ANN ARBOR PSDSS. ALL SERVICE LEADS SHALL MAINTAIN A MINIMUM OF 5.5' OF COVER. ALL SERVICE LEADS SHALL MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE FROM UTILITY CROSSEOVERS.

NOT AS-BUILT, BEST AVAILABLE INFO.

NOTE:  
PHASE II CONSTRUCTION IS TO INCLUDE INSTALLATION OF GATE VALVE W-1 FOR PHASE III CONSTRUCTION.  
PHASE II CONSTRUCTION IS TO INCLUDE INSTALLATION OF SANITARY MH S-2 WITH ONE PIPE LENGTH STUBBED OUT & PLUGGED FOR PHASE III CONSTRUCTION.

**WASHTENAW ENGINEERING**  
CIVIL ENGINEERS PLANNERS SURVEYORS  
72 HOURS BEFORE YOU DIG CALL MISS DIG 800-492-7171  
P.O. BOX 1204 3250 WEST LIBERTY RD ANN ARBOR MICHIGAN 48106  
TELEPHONE 313-761-8800



LEGEND

EXISTING PAVEMENT	EXISTING CONTOUR	EXISTING STORM	EXISTING WATER
PROPOSED PAVEMENT	PROPOSED CONTOUR	PROPOSED STORM	PROPOSED WATER
PROPOSED SIDEWALK	EXISTING FIRE HYDRANT	EXISTING SANITARY	EXISTING TELEPHONE
EXISTING UTILITY POLE	PROPOSED FIRE HYDRANT	PROPOSED SANITARY	EXISTING ELECTRIC
	EXISTING CATCH BASIN	EXISTING CATCH BASIN	EXISTING GAS

BENCHMARK  
TOP OF HEADWALL ABOVE 36" CULVERT AT NORTH END OF SITE ELEV=801.77. NAIL IN PP EAST SIDE OF CARDINAL ELEV. = 826.82

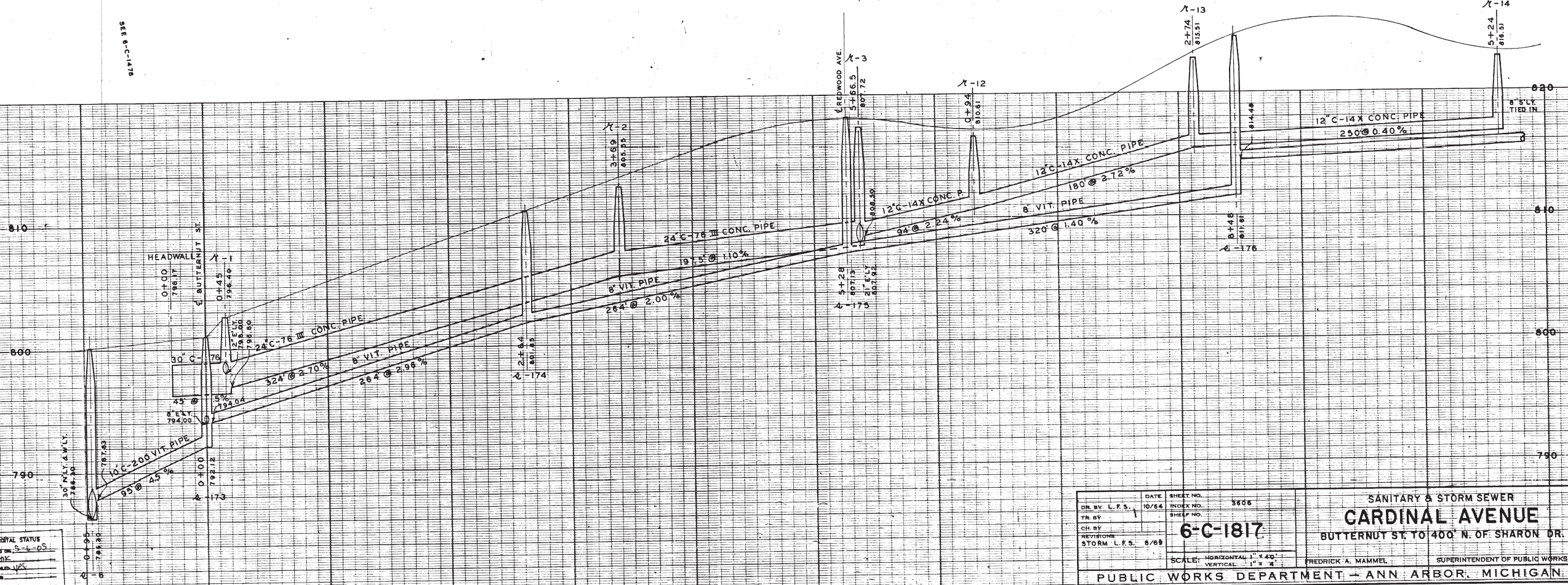
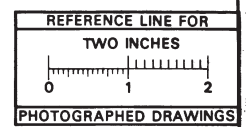
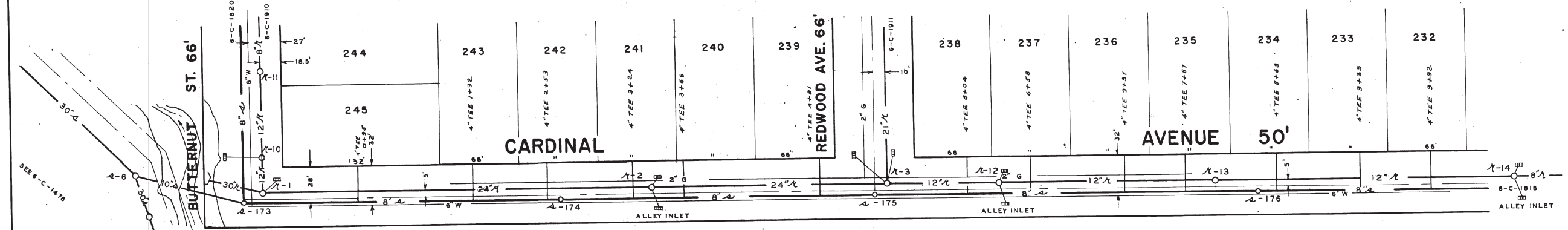
PREPARED BY WALTER F. LEWIS, P.E. MICH NO. 14336

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

ENGINEERING DEPARTMENT - CITY OF ANN ARBOR  
**MALLET'S WOOD SANITARY SEWER & WATERMAIN CONSTRUCTION**  
SCALE 40' = 1" INCH  
DRAWING NO. SANWAT.DWG  
SHEET NO. 7 OF 10  
95055-W.S.



SPRINGWATER SUBDIVISION NO. 2



DIGITAL STATUS  
 REVISION NO. S-4-05  
 BY DICK  
 CHECKED BY JES  
 VECTORS  
 G.S.A.

DATE SHEET NO. 3606  
 DR. BY L.F.S. 10/66 INDEX NO.  
 TR. BY SHEEP NO.  
 CH. BY  
 REVISIONS  
 STORM L.F.S. 6/68

SANITARY & STORM SEWER  
**CARDINAL AVENUE**  
 BUTTERNUT ST. TO 400' N. OF SHARON DR.

SCALE: HORIZONTAL 1" = 40'  
 VERTICAL 1" = 2'  
 PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN  
 FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS

**LEGEND:**  
 UNDERGROUND UTILITIES  
 PROFILES  
 CENTER LINE  
 LEFT PROPERTY LINE

EXISTING SANITARY  
 PROPOSED SANITARY  
 CENTER LINE  
 LEFT PROPERTY LINE

EXISTING STORM  
 PROPOSED STORM  
 CENTER LINE  
 RIGHT PROPERTY LINE

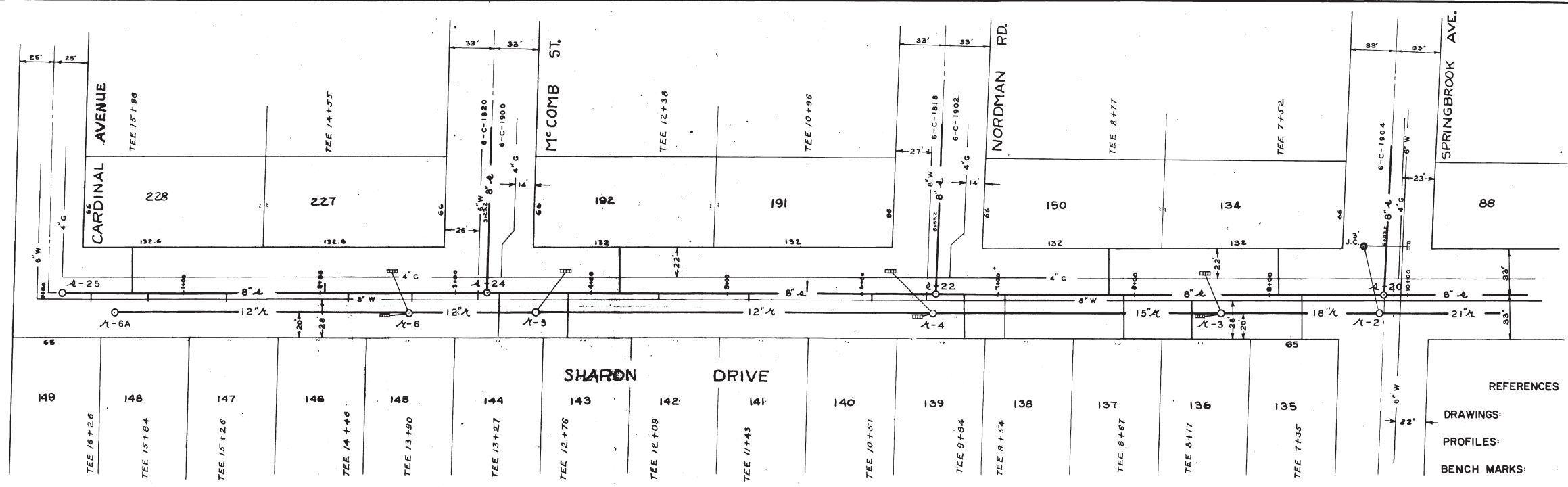
EXISTING GAS  
 EXISTING WATER

**REFERENCES:**  
 BENCH MARK  
 PROFILES BY  
 DRAWINGS  
 FIELD BOOK  
 BUILT BY FORMER CITY OF EAST ANN ARBOR IN 1955  
 M.D.H. PERMIT NO. 11371 1/18/54

JOB 607-3626 DIST. 55  
 JOB DIST.  
 JOB DIST.  
 JOB DIST.

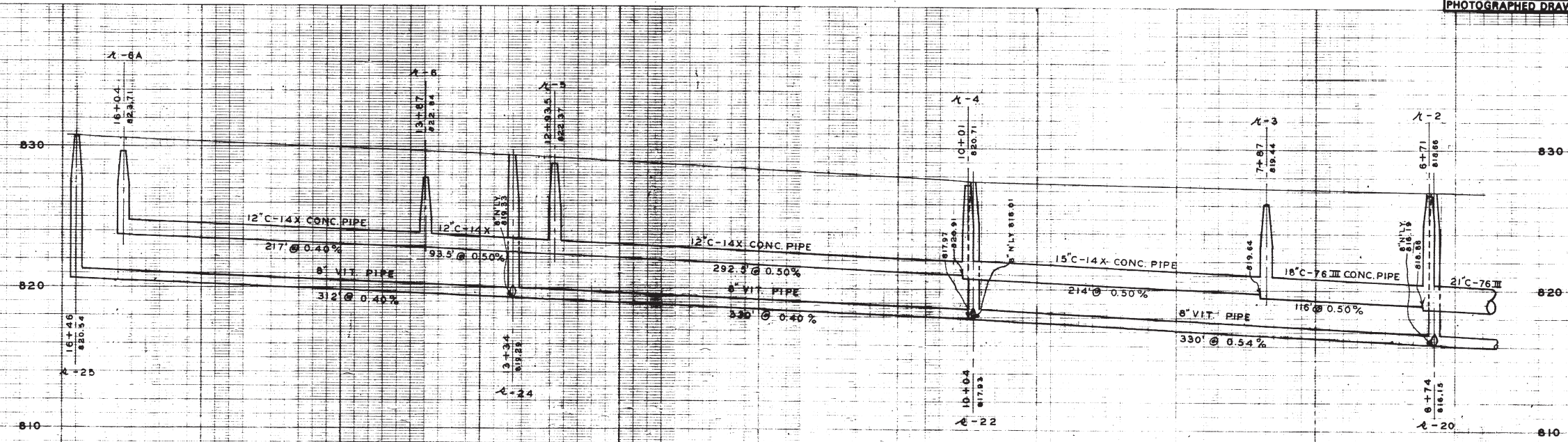
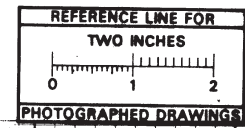
PREPARED BY MCNAMEE, PORTER & SEELEY  
 APPROVED BY





REFERENCES  
 DRAWINGS:  
 PROFILES:  
 BENCH MARKS:  
 SAN. BUILT BY: FORMER CITY OF EAST ANN ARBOR IN 1955

DIGITAL STATUS  
 SCANNED ON: 5/1/16  
 BY: E.M.A.  
 REPROCESSED: YES  
 ORIGINAL: \_\_\_\_\_  
 DATE: \_\_\_\_\_



JOB-607-3626 DIST. 55

DATE	SHEET NO.	SANITARY & STORM SEWER <b>SHARON DRIVE</b> CURB & GUTTER CONTINUED TO SPRINGBROOK
DR. BY DLK	INDEX NO. 372	
TR. BY L.F.S.	SHELF NO.	CITY ENGINEER GEO. H. SANDENBURGH
CH. BY	<b>6-C-1913</b>	
REVISIONS	SCALE: HORIZONTAL 1"=60' VERTICAL 1"=8'	CITY ENGINEER'S OFFICE - ANN ARBOR, MICHIGAN PREPARED BY MCNAMEE, PORTER & SEELEY
SANITARY L.F.S. 1/84		
STORM L.F.S. 7/89		

M.D.H. PERMIT NO. 11371 1/16/54  
 FOR OLD STORM SEWERS BUILT BY E.A.A.  
 SEE JOB #2451 3-F-356-A

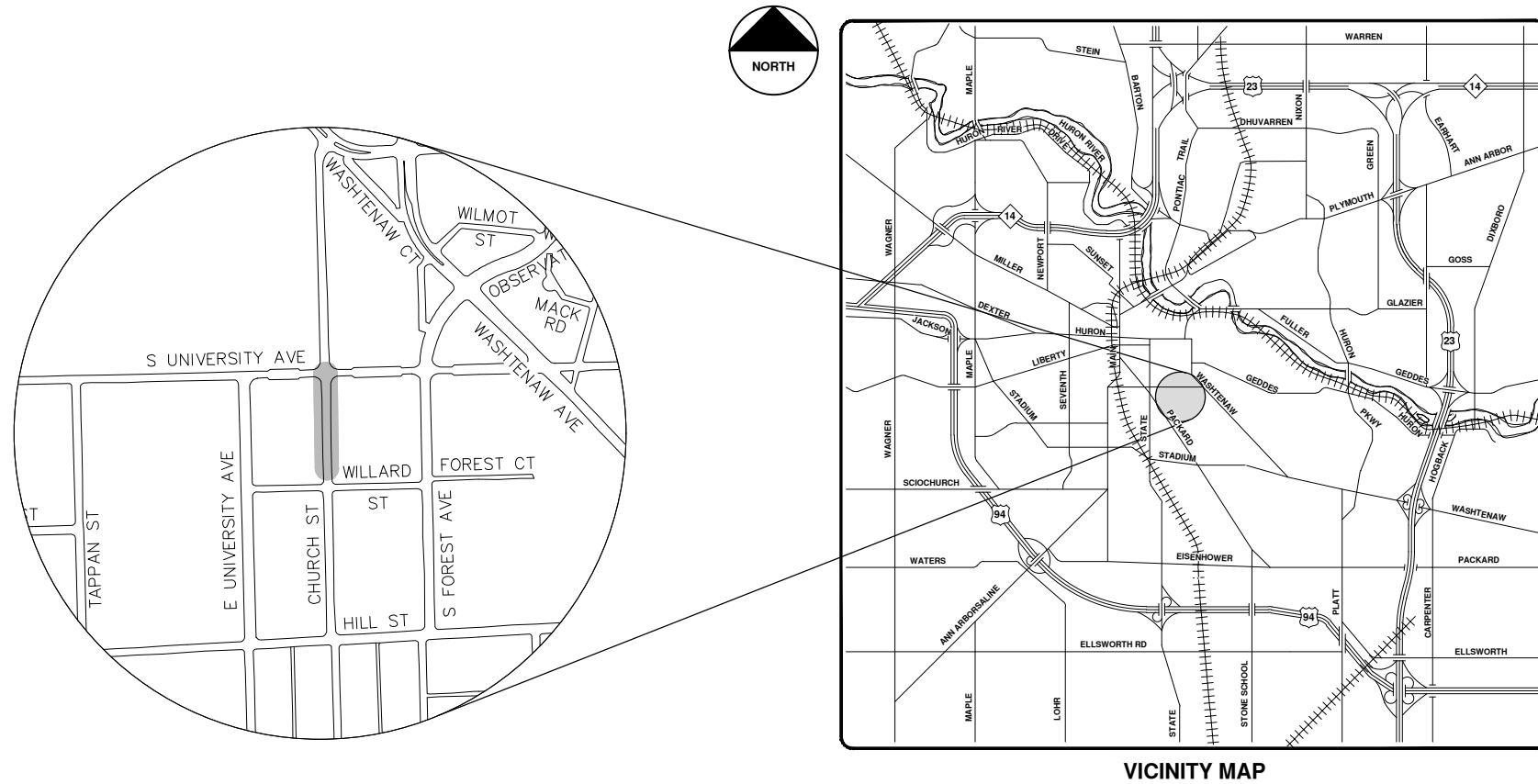
SEE 6-C-1914






# 2018 SANITARY SEWER LINING

## CHURCH ST



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg - \_a2 standard bw.stb - Plot Date: 4/27/2018 9:47:03 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. 2017032-105  
 SHEET No. 105 OF 130

**© 2018 SANITARY SEWER LINING; LOCATION: CHURCH ST; 2017032**

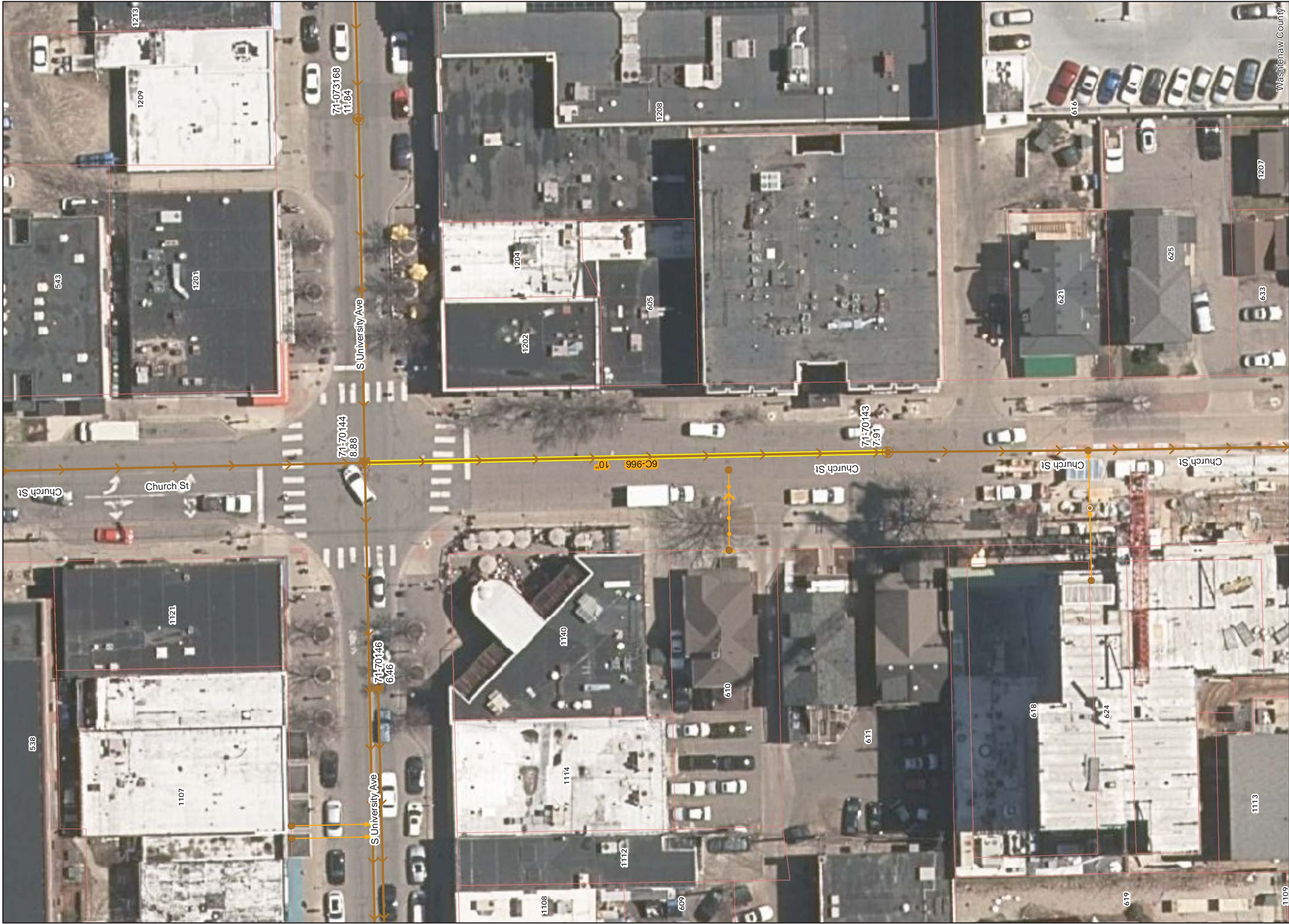
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	5-3-18	DPF	IVK


 Know what's below.  
 Call before you dig.

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







**Legend**

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

# Church St



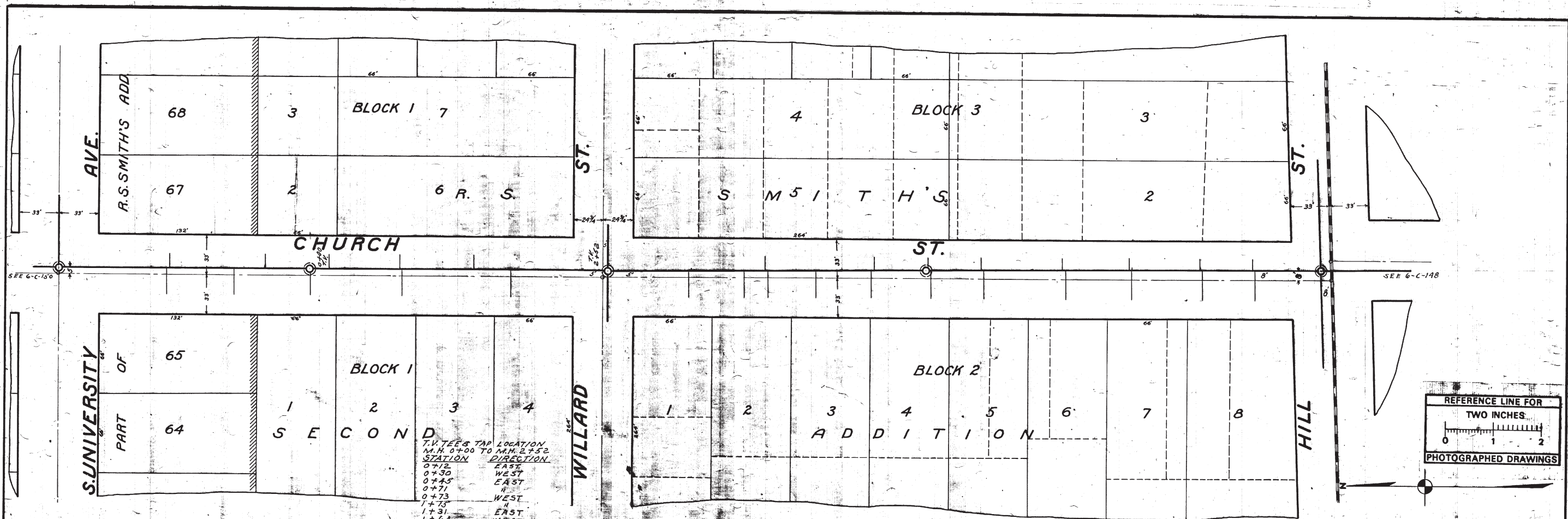
71-70682 (Manhole ID)

5.07 (Manhole Depth)

For terms and conditions of use see [www.a2gov.org/terms](http://www.a2gov.org/terms)

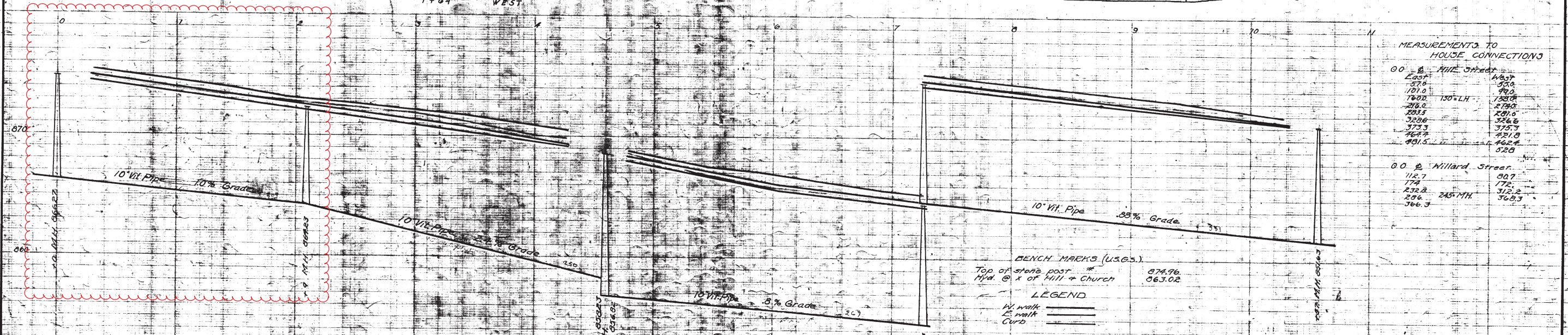
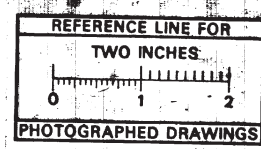






7 1/2" T.E.S. TAP LOCATION  
 I.M.H. 0+00 TO I.M.H. 2+52

STATION	DIRECTION
0+12	EAST
0+30	WEST
0+45	EAST
0+71	"
0+73	WEST
1+31	EAST
1+64	WEST



MEASUREMENTS TO HOUSE CONNECTIONS

0.0' @ Hill Street		0.0' @ Willard Street	
East	West	East	West
57.0	95.0	112.7	90.7
101.0	99.0	174	172
180.0	150" LH	232.8	312.2
286.0	250.0	256	245" MH
283.5	291.0	366.3	366.3
328.6	326.6		
373.3	375.3		
464.3	462.0		
491.5	462.0		
	428		

BENCH MARKS (U.S.G.S.)

Top of stone post	074.96
Mid. @ x of Hill + Church	063.02

LEGEND

- W. Walk
- E. Walk
- Curb

SHEET No. 66 INDEX No. 704 SHELF No. 6 SIZE C. SUB No. 149	CITY ENGINEER'S OFFICE <b>ANN ARBOR, MICH.</b> PLAN AND PROFILE OF SANITARY SEWER <b>CHURCH ST.</b> S. UNIVERSITY AVE. TO HILL ST. Manley Osgood, City Engineer 1917 Scales - Plan 1"=40' Profile Horizontal 40' Vertical 1"=4'
--	--

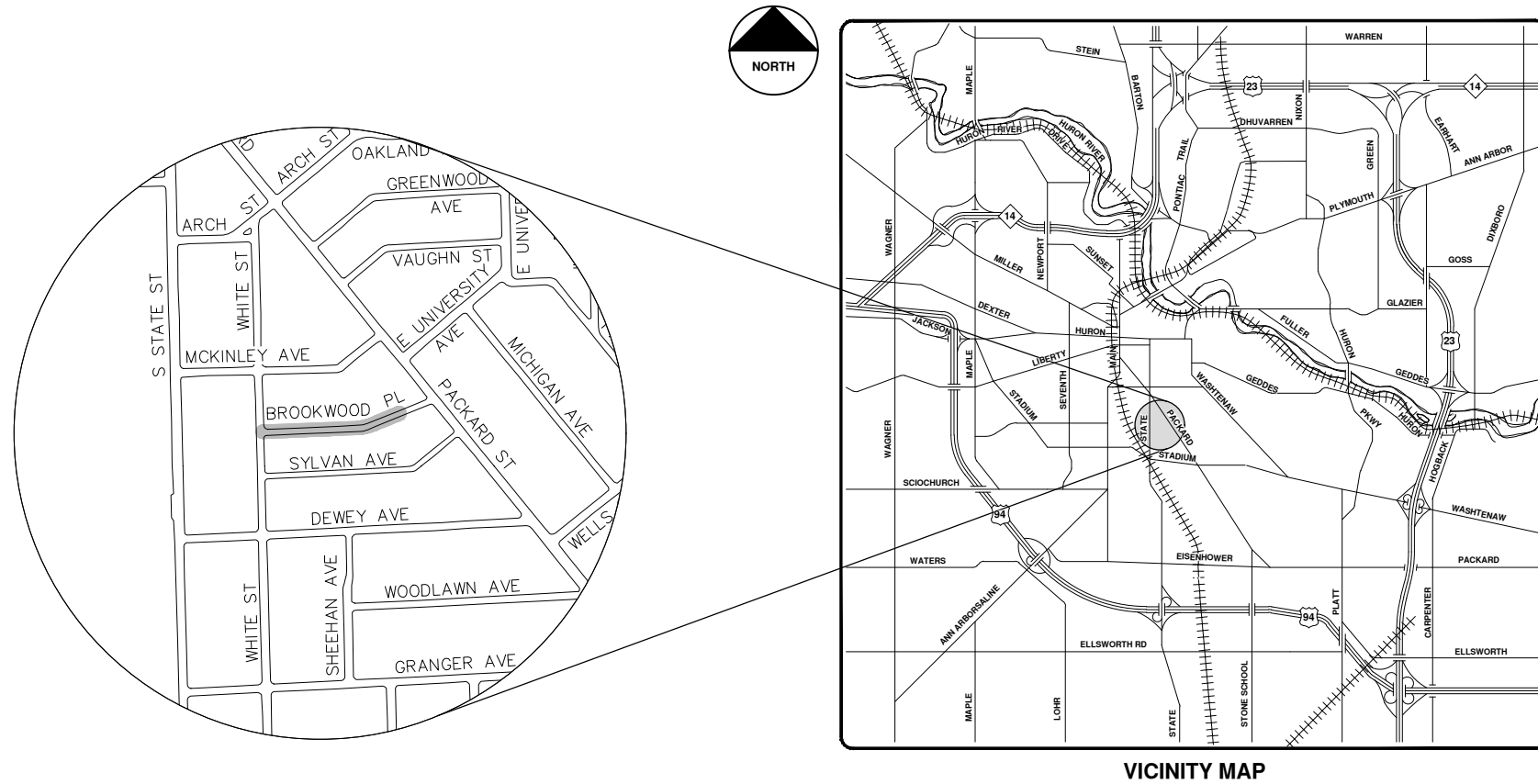
PLANNED BY  
 DRAWN BY  
 CHECKED BY






# 2018 SANITARY SEWER LINING

## BROOKWOOD PLACE



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg -- \_a2 standard bw.stb -- Plot Date: 4/27/2018 9:47:04 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. 2017032-108  
 SHEET No. 108 OF 130

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	5-3-18	DPF	IVK

Know what's below. Call before you dig.



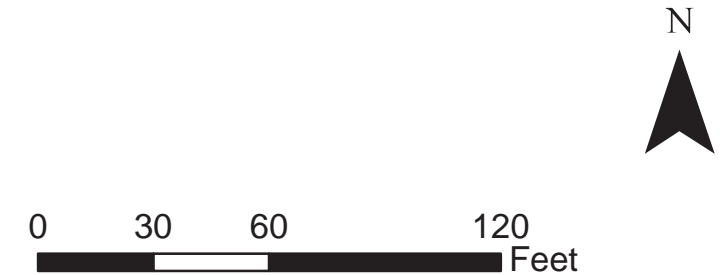


- Legend**
- Proposed Lining
  - Lined Pipe
  - Sanitary Main
  - Manhole
  - Sanitary Lateral, Abandoned
  - Sanitary Lateral
  - ⊗ Sanitary Lateral, Plugged

71-70682 (Manhole ID)  
 5.07 (Manhole Depth)

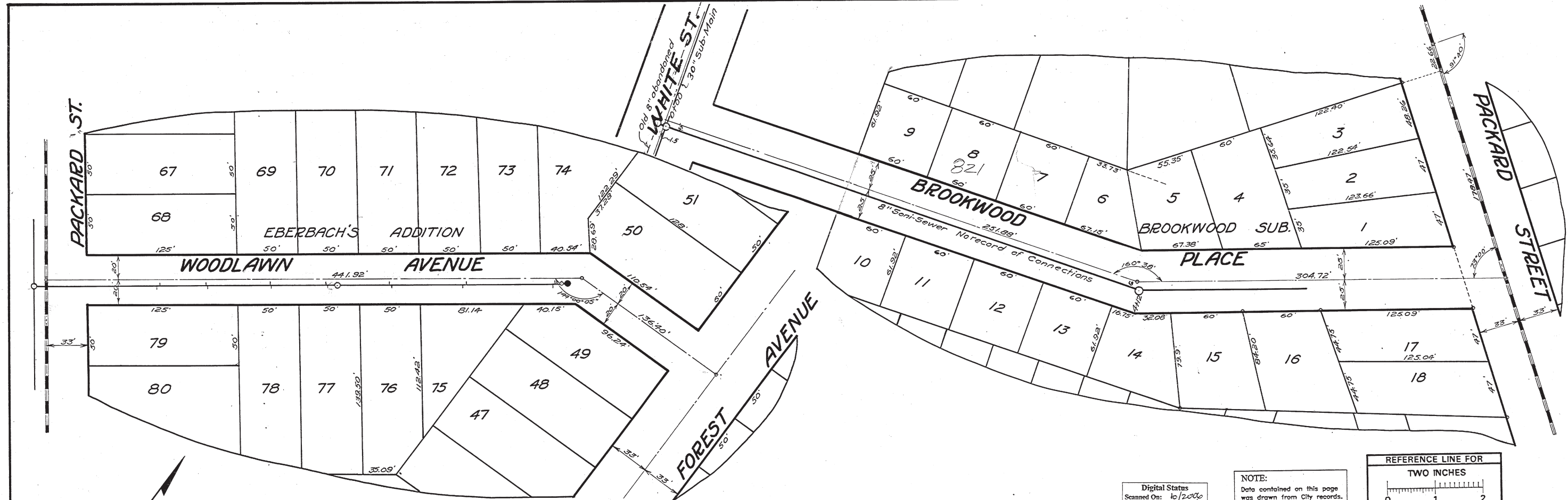
# Brookwood Place

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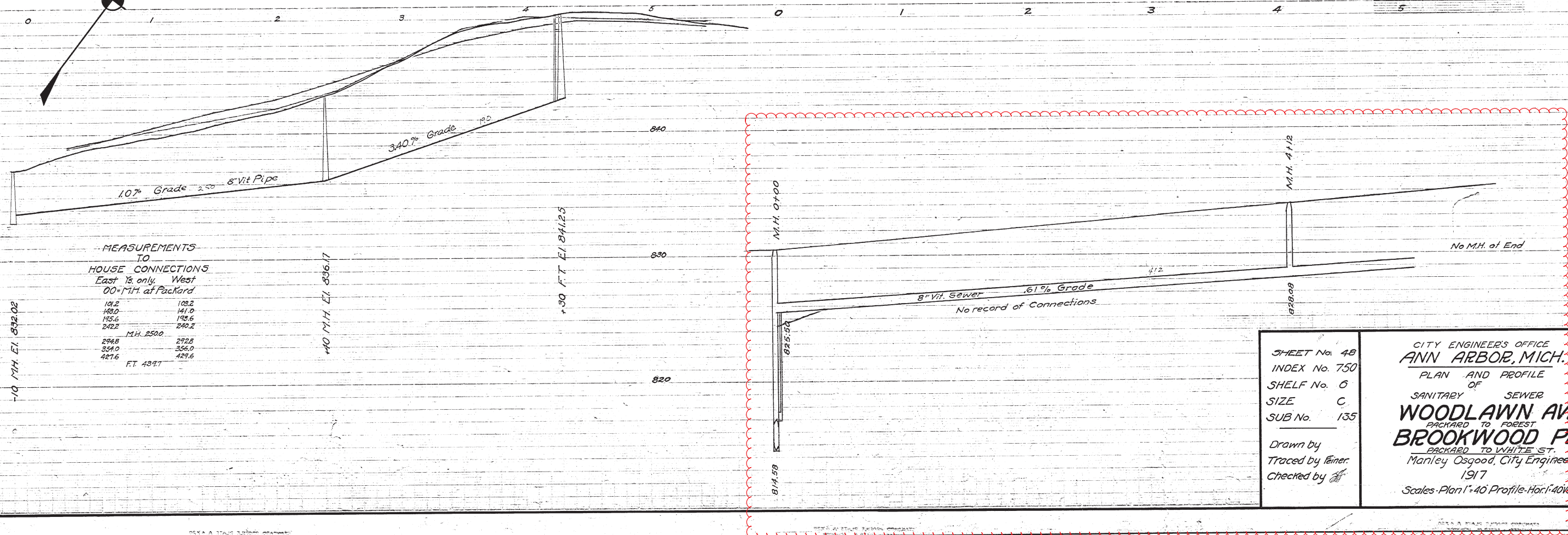
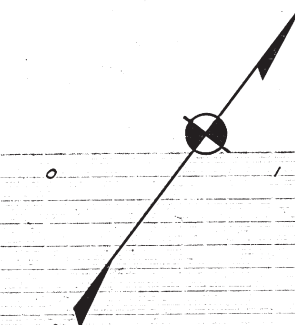
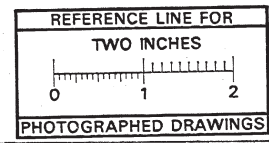
Washtenaw County





Digital Status  
Scanned On: 10/2006  
By: ENK

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



MEASUREMENTS  
TO  
HOUSE CONNECTIONS  
East 1/2 only. West  
00' M.H. at Packard

101.2	108.2
148.0	141.0
195.6	195.6
242.2	240.2
M.H. 2500	
298.8	292.8
354.0	356.0
421.6	421.6
FT. 4397	

SHEET No. 48  
INDEX No. 750  
SHELF No. 6  
SIZE C  
SUB No. 135

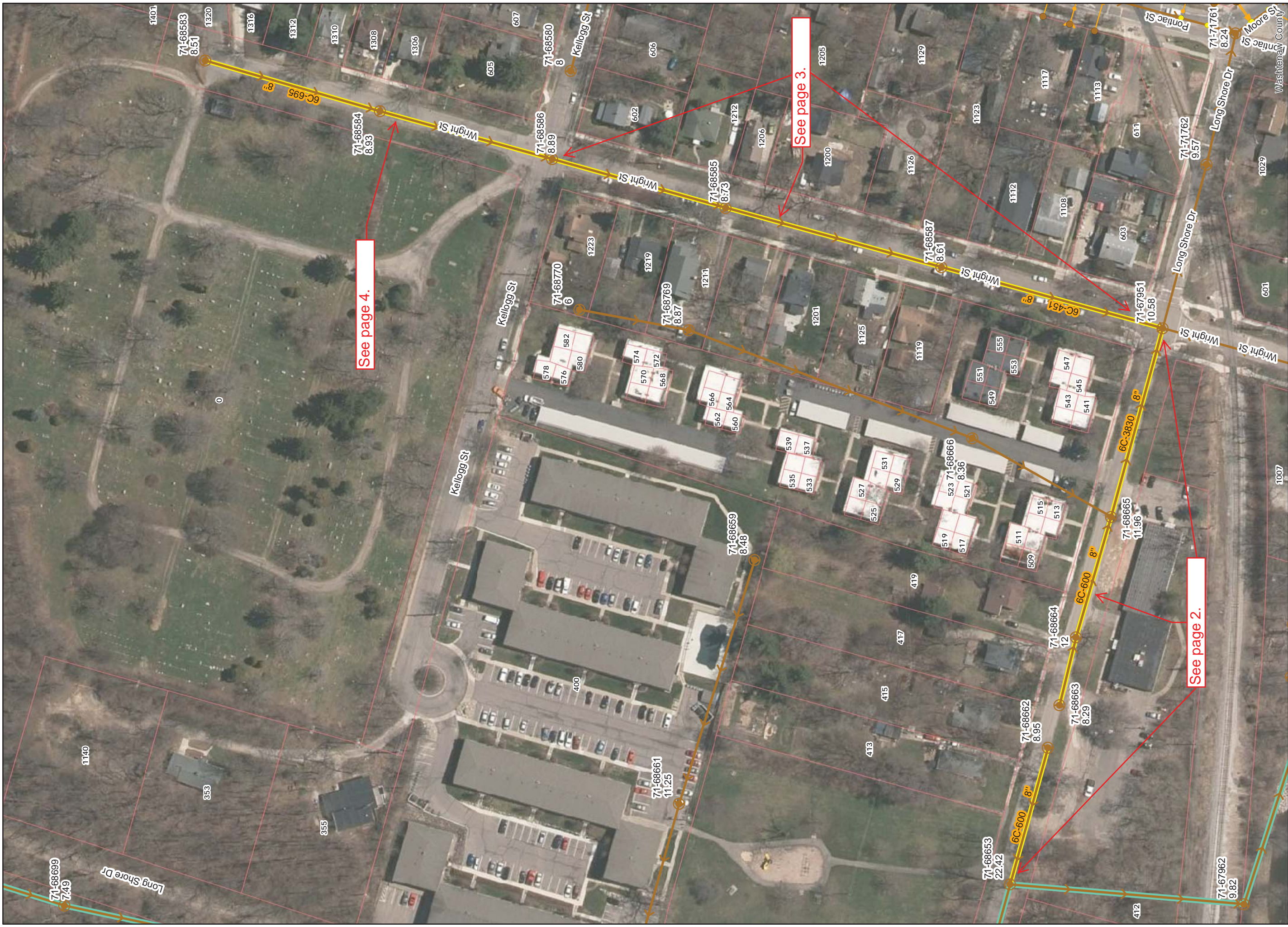
Drawn by  
Traced by Eimer  
Checked by

CITY ENGINEERS OFFICE  
ANN ARBOR, MICH.  
PLAN AND PROFILE  
OF  
SANITARY SEWER  
WOODLAWN AVE.  
PACKARD TO FOREST  
BROOKWOOD PL.  
PACKARD TO WHITE ST.  
Manley Osgood, City Engineer  
1917  
Scales - Plan 1"=40' Profile - Hor. 1"=40' Vert. 1"=4'









See page 4.

See page 3.

See page 2.

**Legend**

- ▶ Proposed Lining
- Sanitary Lateral, Abandoned
- Lined Pipe
- ▶ Sanitary Lateral
- Sanitary Main
- ▶ Sanitary Lateral, Plugged
- Manhole

71-70682 (Manhole ID)

5.07 (Manhole Depth)

# Wright and Long Shore

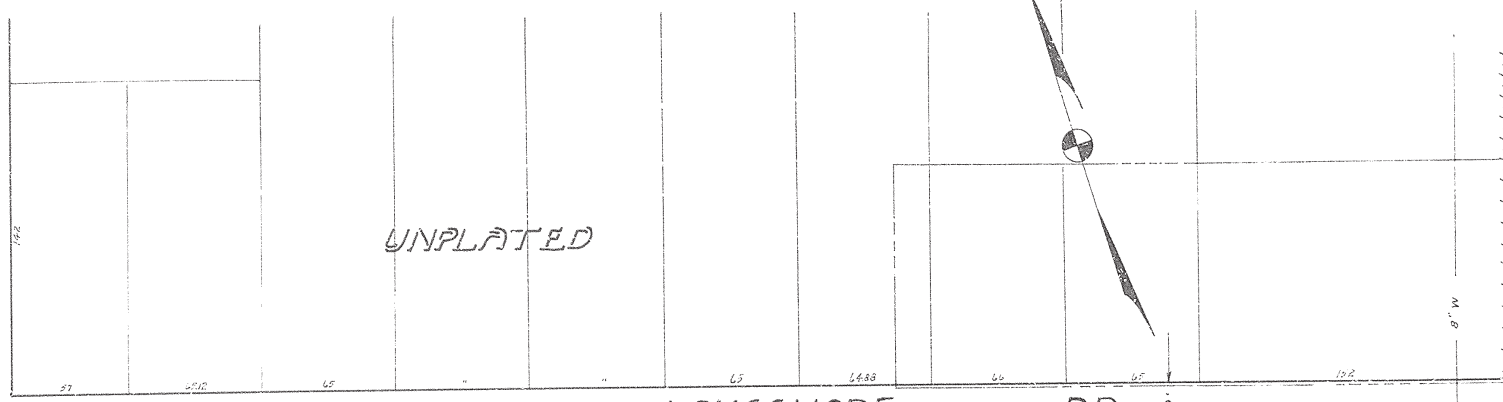


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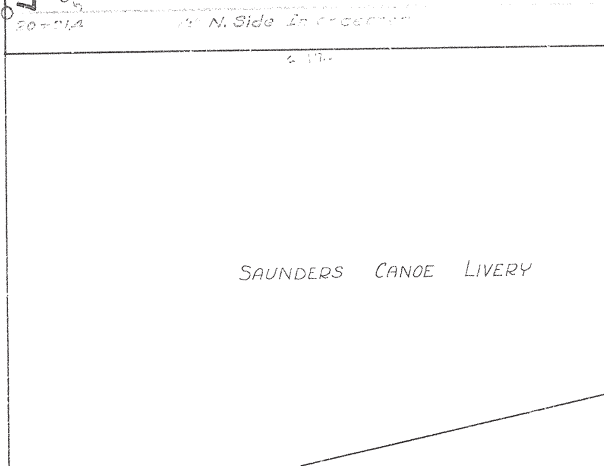


ARGO POND

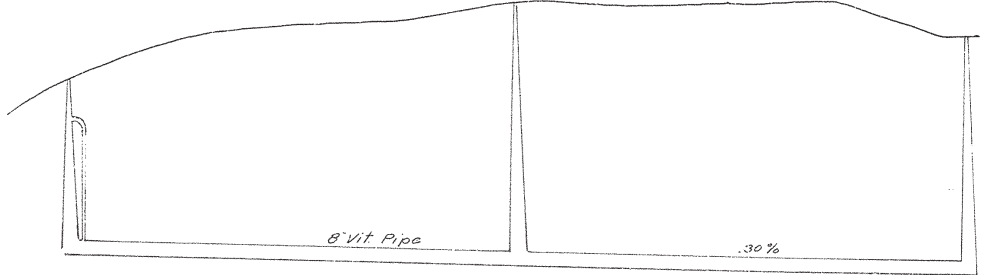
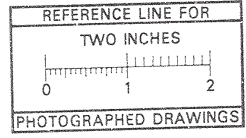
LONG SHORE DRIVE



LONGSHORE DR.



ANN ARBOR RR.



House Connections  
North Side Only  
0+00 M.H. at Sub Main  
0+05  
0+43  
1+01  
1+60 M. H.

MEASUREMENTS  
To  
HOUSE CONNECTIONS

0+00 M.H. at Wright	
North	South
0+00 M.H.	1+27
1+29	1+31.5
2+13.85 M.H.	
2+39	2+41
2+91	2+89
3+52	3+51
4+06	4+08
4+39.00 FT.	

INDEX No. 1528  
SHELF No. 6  
SIZE C  
SUB No. 600

Drawn By G.H.  
Traced By G.H.  
Checked By

CITY ENGINEER'S OFFICE  
**ANN ARBOR, MICH.**  
OF  
SANITARY SEWER  
ON  
**LONGSHORE DR.**  
WRIGHT ST. WEST  
Geo. H. Sandenburgh City Engineer  
1925-3-25  
Scales: Hor. 1"=40' Prof. Vert. 1"=4'

790

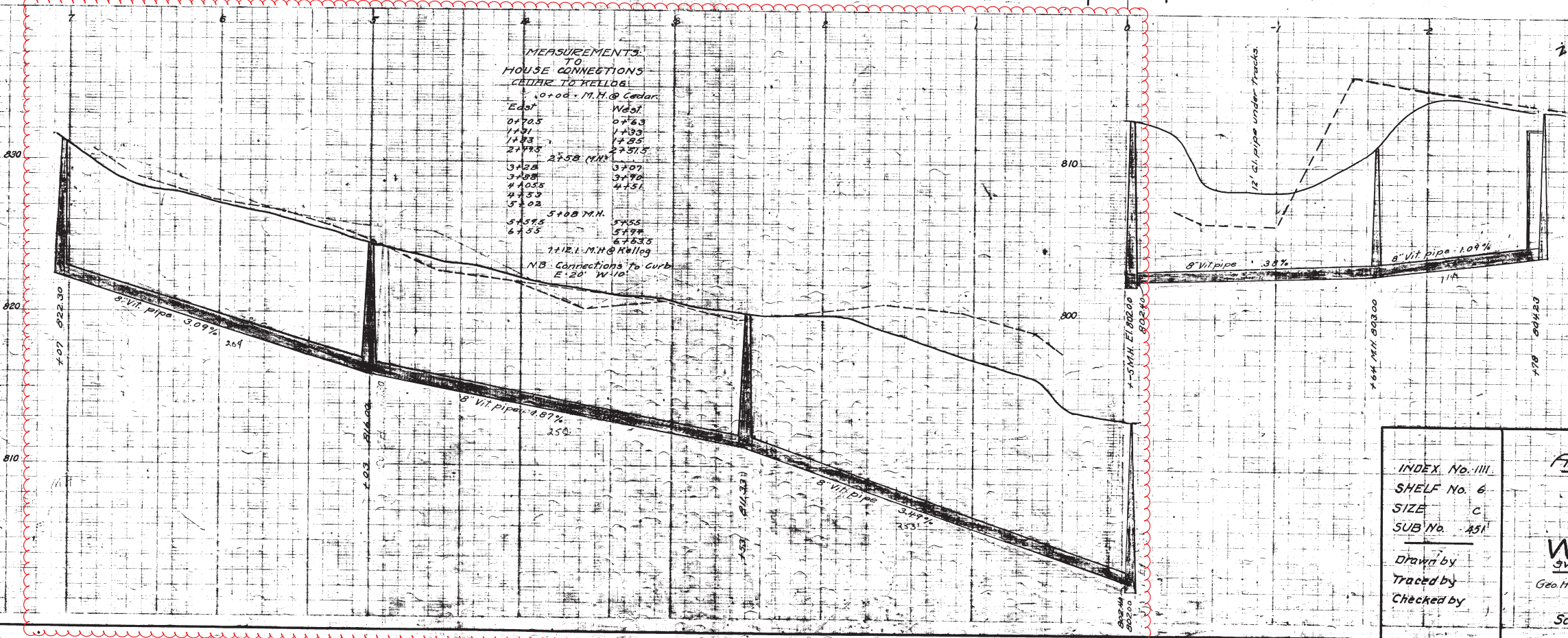
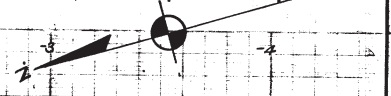
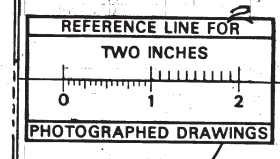
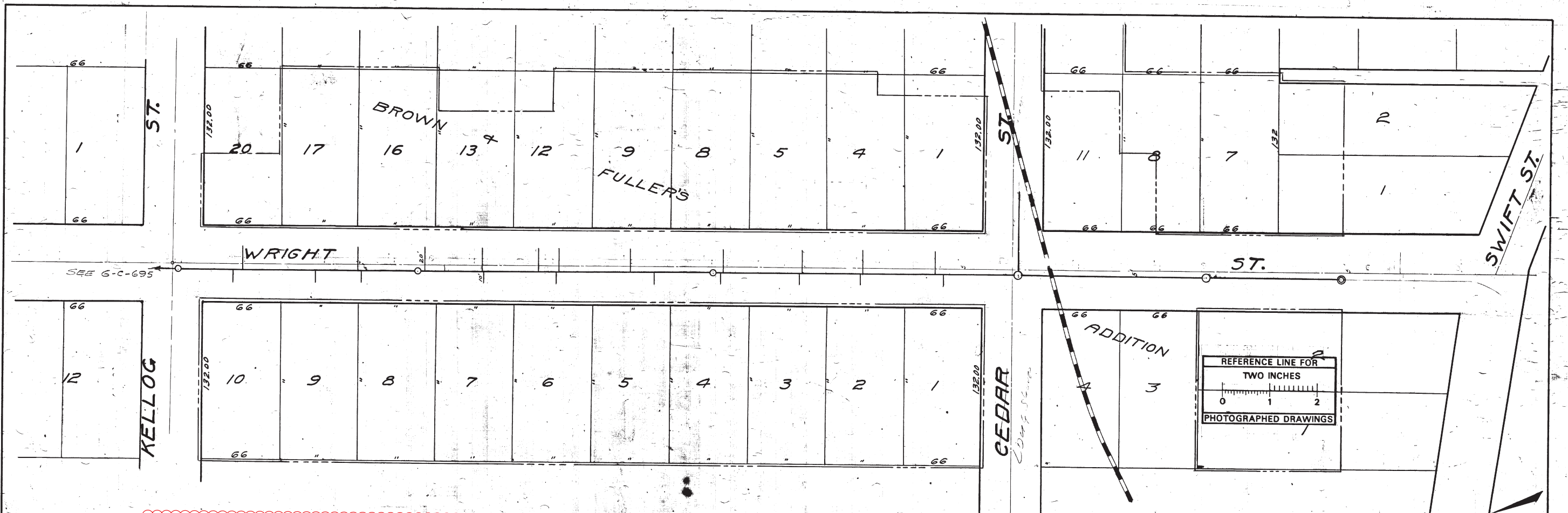
780

770

810

800





MEASUREMENTS TO HOUSE CONNECTIONS CEDAR TO KELLOG

10+00 - M.H. @ Cedar	10+00 - M.H. @ Cedar
Edge	Wood
01705	02763
1191	1193
1193	1195
2193	22515
3128	2750 (M.H.)
3198	3190
41055	4131
4133	
5102	
5195	5108 M.H.
6135	5155
	5174
	6135
	7112 L.M.H. @ Kellog

M.H. Connections to Curb E. 20' W 10'

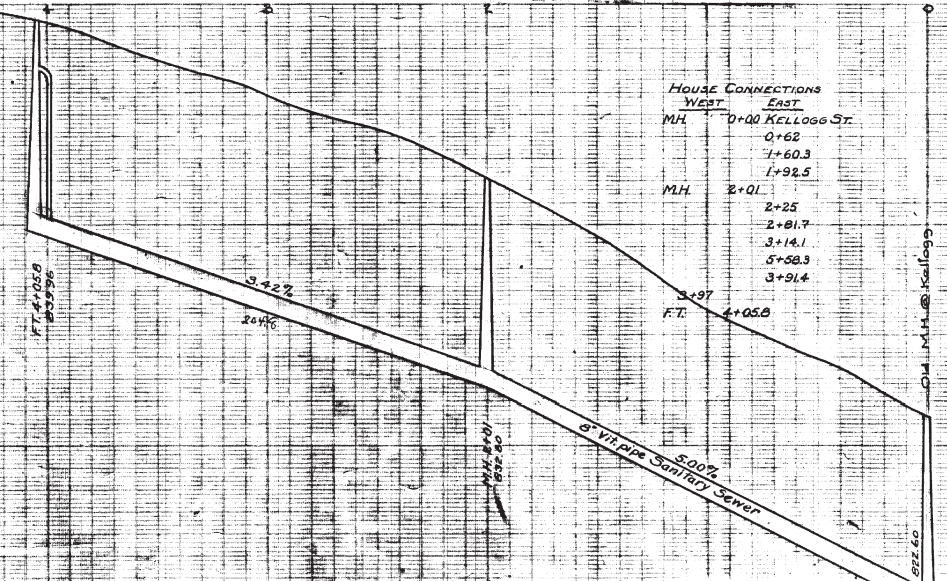
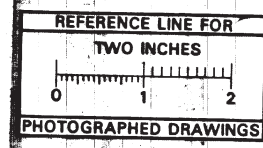
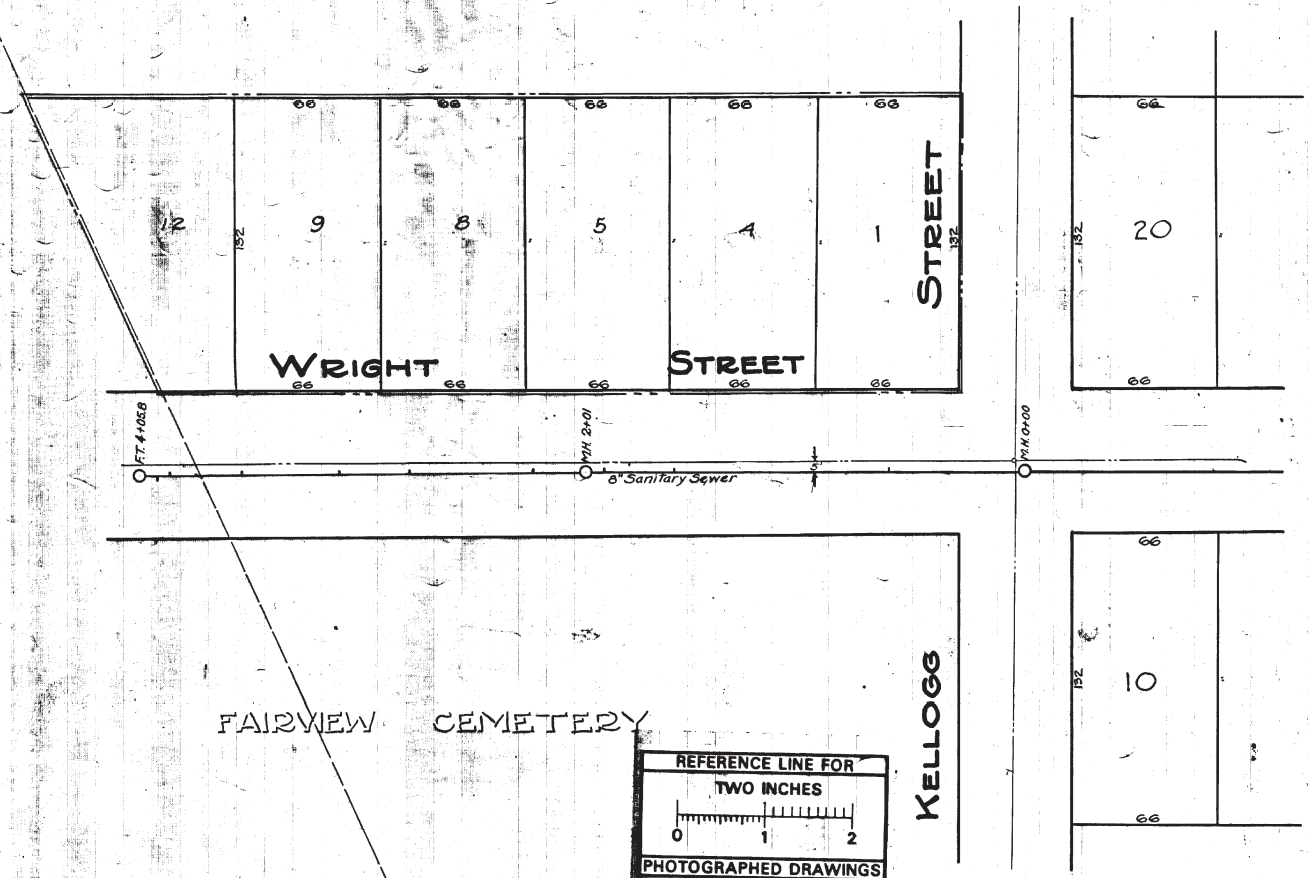
Digital Status  
 Scanned On: 9-14-04  
 By: DGK  
 Despeckled: Yes  
 Vectors: Yes  
 O.C.R.:

INDEX No. III  
 SHELF No. 6  
 SIZE C  
 SUB No. 251

Drawn by  
 Traced by  
 Checked by

CITY ENGINEER'S OFFICE  
**ANN ARBOR, MICH.**  
 PLAN AND PROFILE  
 OF  
 SANITARY SEWER  
 ON  
**WRIGHT ST.**  
 SWIFT ST. TO KELLOGG ST.  
 Geo. H. Sandenburgh, City Engineer  
 1923-12-5  
 Scales-Plan 1"=40' Profile-HORIZ=40' Vert.=4'





Digital Status  
Scanned On: 2-23-05  
By: DGK  
Despatched: Yes  
Vectors:  
O.C.R.:

SHEET  
INDEX 1846  
SHELF 6  
SIZE C  
SUB 695  
DRAWN K.W.  
TRACED K.W.  
CHECKED G.M.B.  
APPROVED

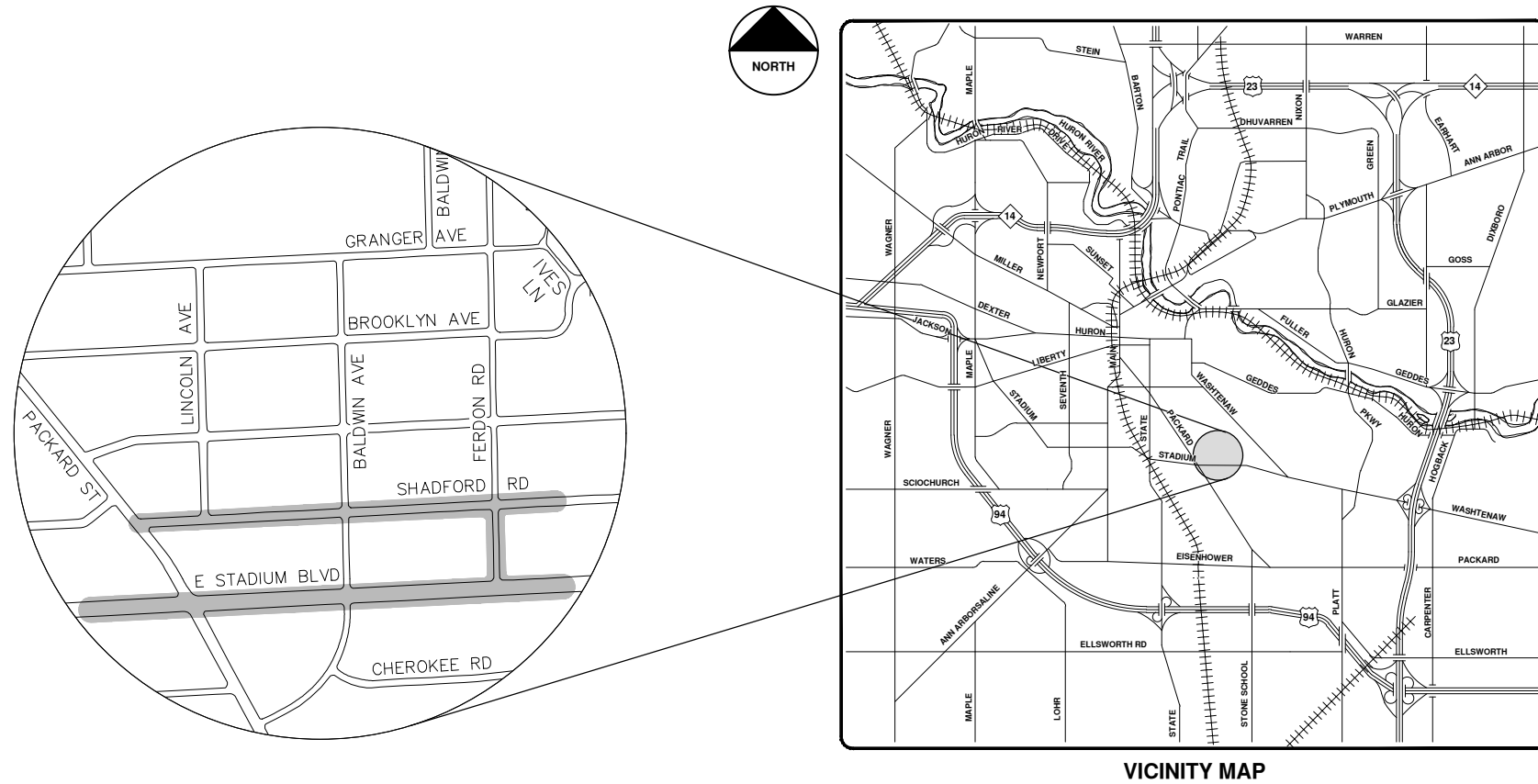
CITY ENGINEER'S OFFICE  
ANN ARBOR, MICH.  
PLAN AND PROFILE  
OF  
SANITARY SEWER  
DISTRICT No 167  
**WRIGHT STREET**  
ONLY FROM KELLOGG  
George H. Sandenburgh City Engineer  
10-23-1929  
Scales Profile Vert 1"=4'  
Plan Hor. 1"=40'





# 2018 SANITARY SEWER LINING

## EAST STADIUM AND SHADFORD



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg --\_a2 standard bw.stb -- Plot Date: 4/27/2018 9:47:06 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	5-3-18	DPF	IVK

CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48107-8647  
 734-794-6410  
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE  
 DRAWING No.  
 2017032-116

SHEET No.  
 116 OF 130

© 2018 SANITARY SEWER LINING; LOCATION: EAST STADIUM AND SHADFORD; 2017032



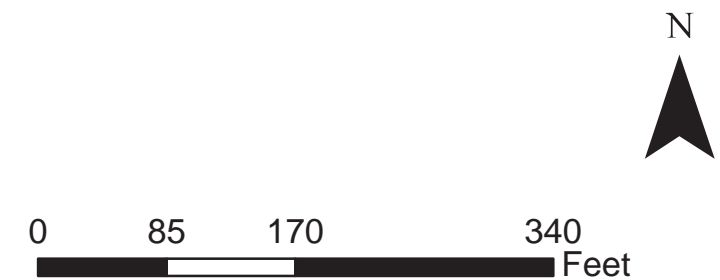


- Legend**
- Proposed Lining
  - Lined Pipe
  - Sanitary Main
  - Manhole
  - Sanitary Lateral, Abandoned
  - Sanitary Lateral
  - Sanitary Lateral, Plugged

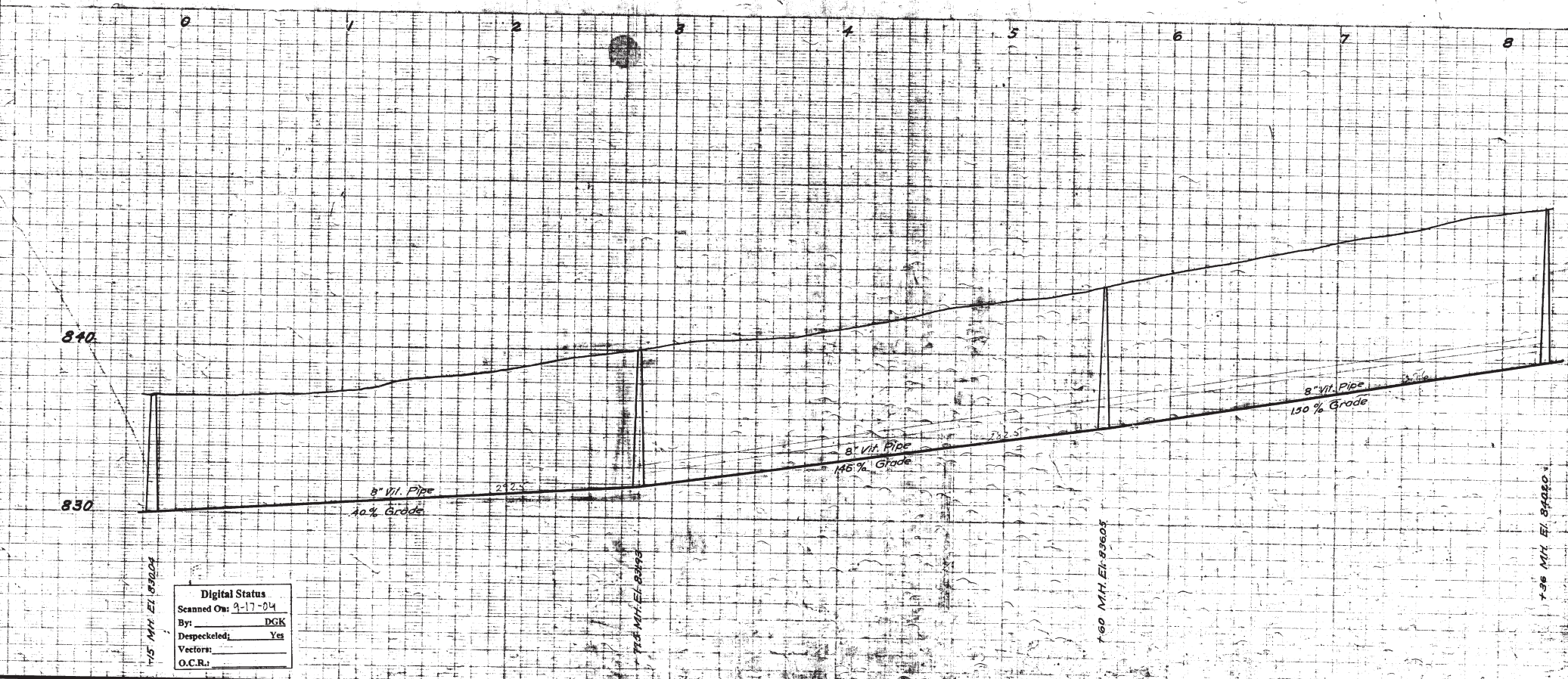
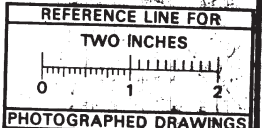
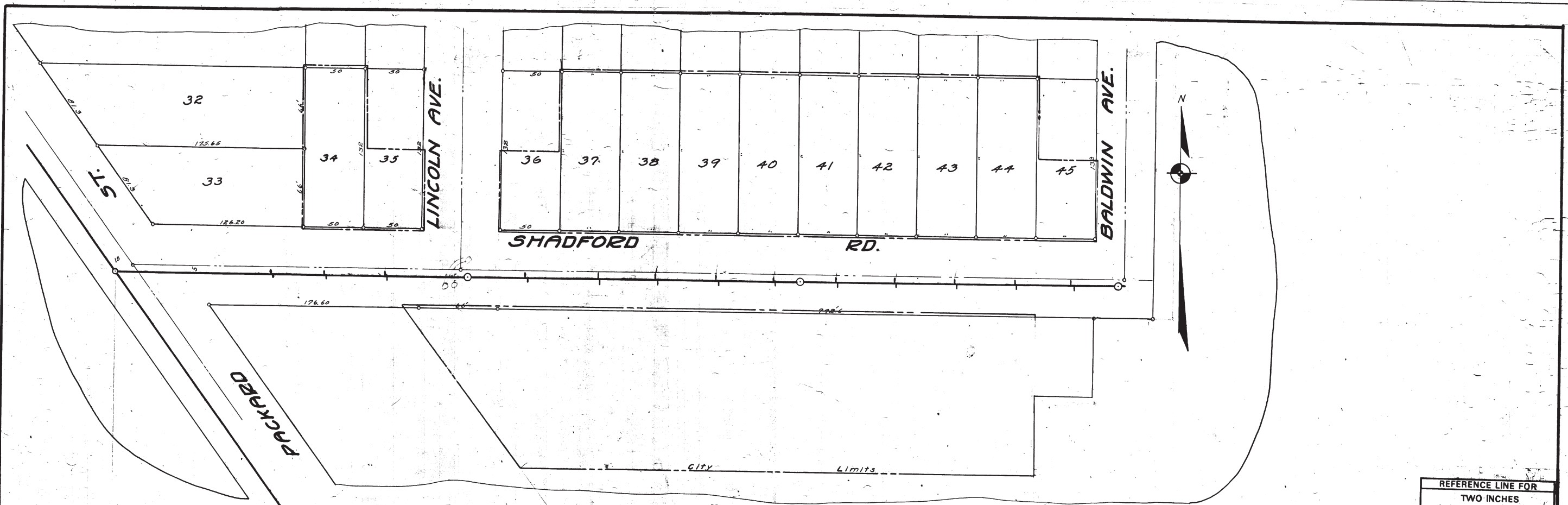
71-70682 (Manhole ID)  
 5.07 (Manhole Depth)

## East Stadium and Shadford

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**MEASUREMENTS  
To  
HOUSE CONNECTIONS**  
4" x 8" Sanitary To:

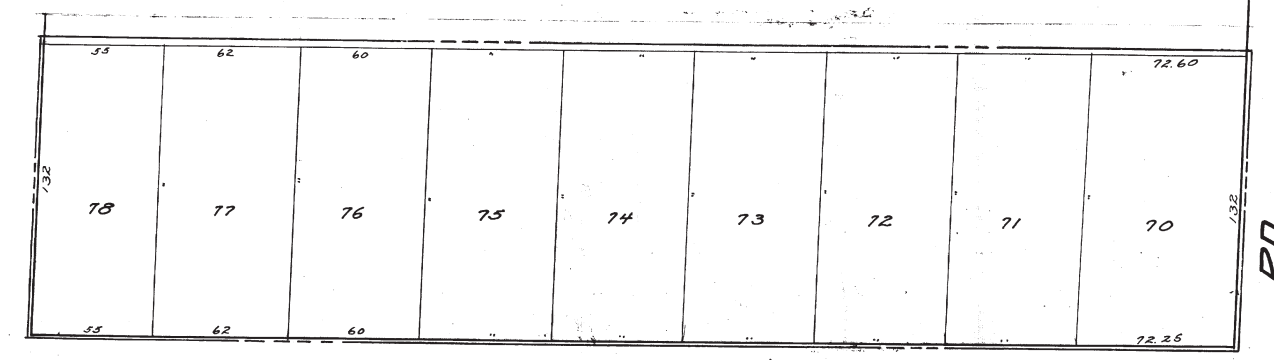
NORTH	SOUTH
2 - MH. of Packard St.	
130.7	132.7
175.3	177.3
226.3	228.3
292.5 - MH. of Lincoln Ave.	
344.5	346.5
405	407
454	456
504.5	506.5
552.3	554.3
604.8	606.8
653.8	655.8
704.6	706.6
754.8	756.8
801.7	803.7
	851 - MH. of Baldwin Ave.

Digital Status  
Scanned On: 9-17-04  
By: DGK  
Despeckled: Yes  
Vectors:  
O.C.R.:

SHEET No.	CITY ENGINEER'S OFFICE
INDEX No. 1271	<b>ANN ARBOR, MICH.</b>
SHELF No. 6	PLAN AND PROFILE
SIZE C	OF
SUB. No. 486	SANITARY SEWER
	<b>SHADFORD ROAD</b>
	Packard St. to Baldwin Ave.
DRAWN BY	
TRACED BY	Geo. H. Sandenburgh, City Engineer.
CHECKED BY	1922-4-28.
	Scale: Plan 1"=40', Profile, Vert 1"=4'

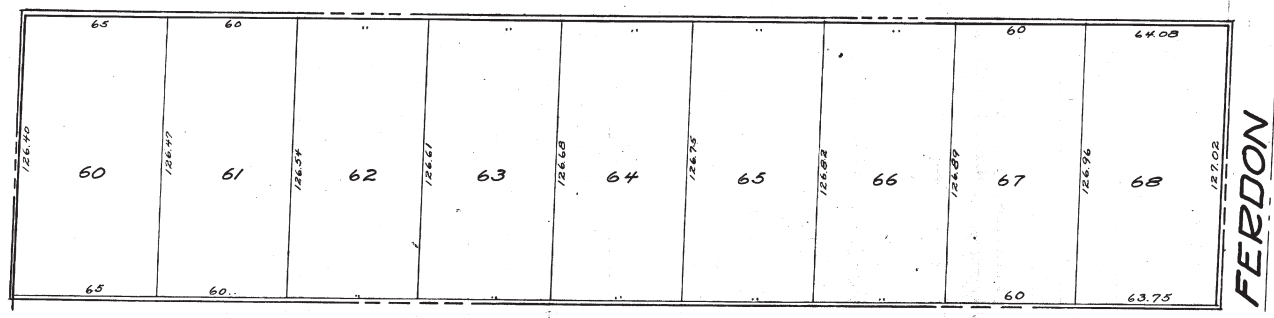


AVE.

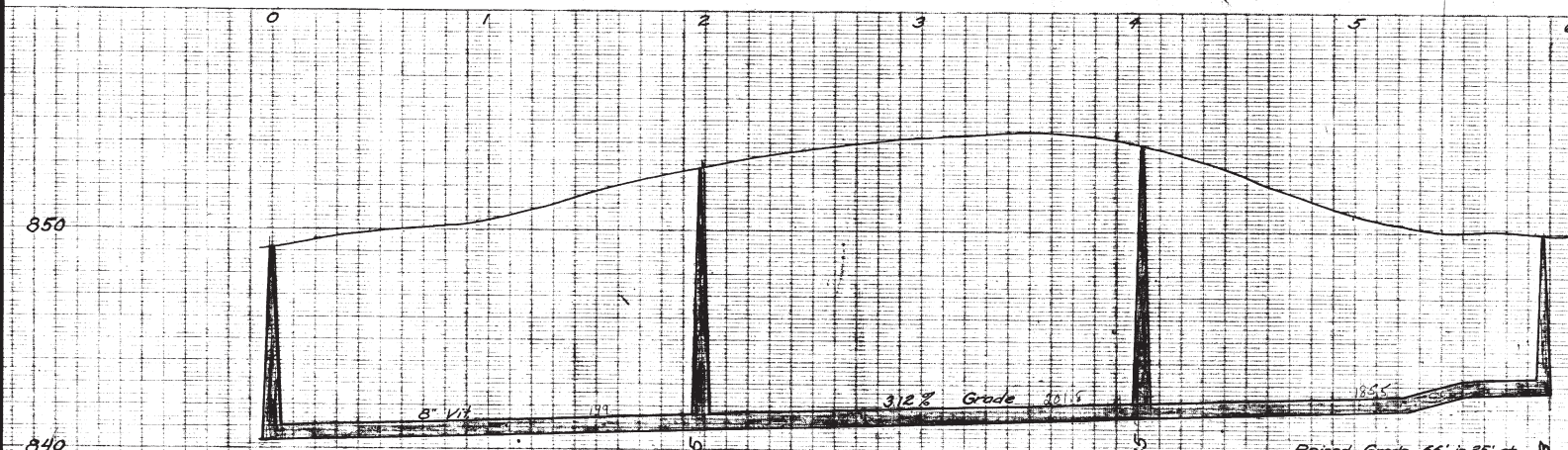
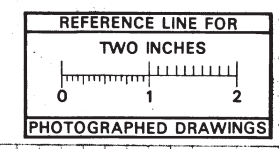


SHADFORD RD.

BALDWIN



RD.  
FERDON



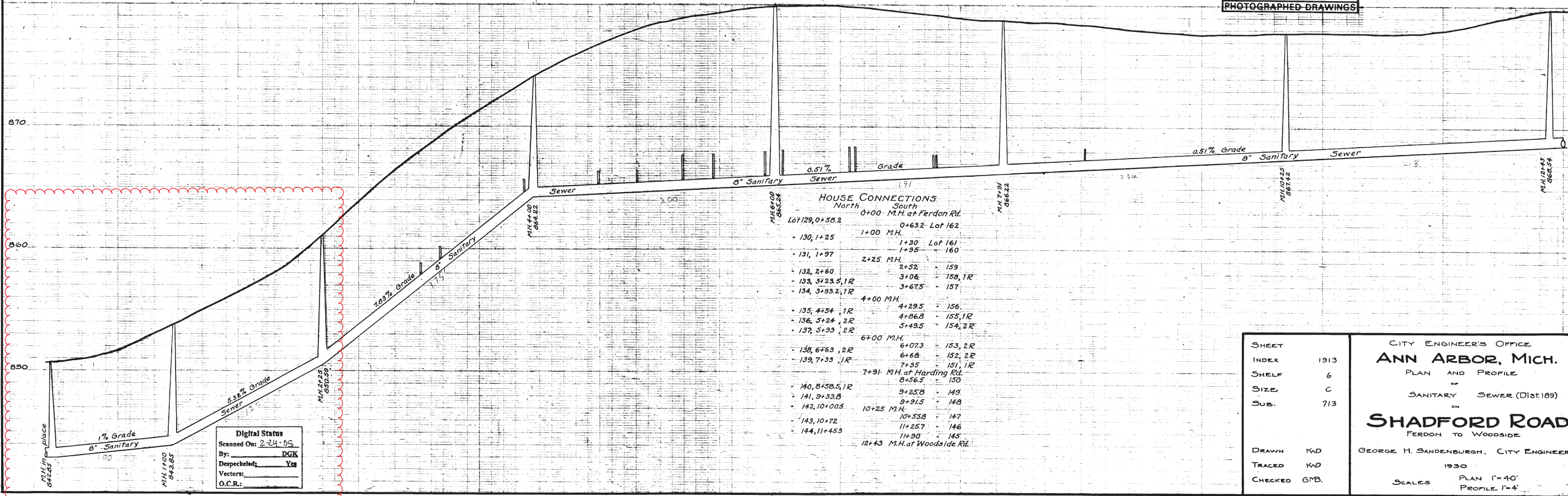
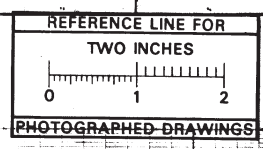
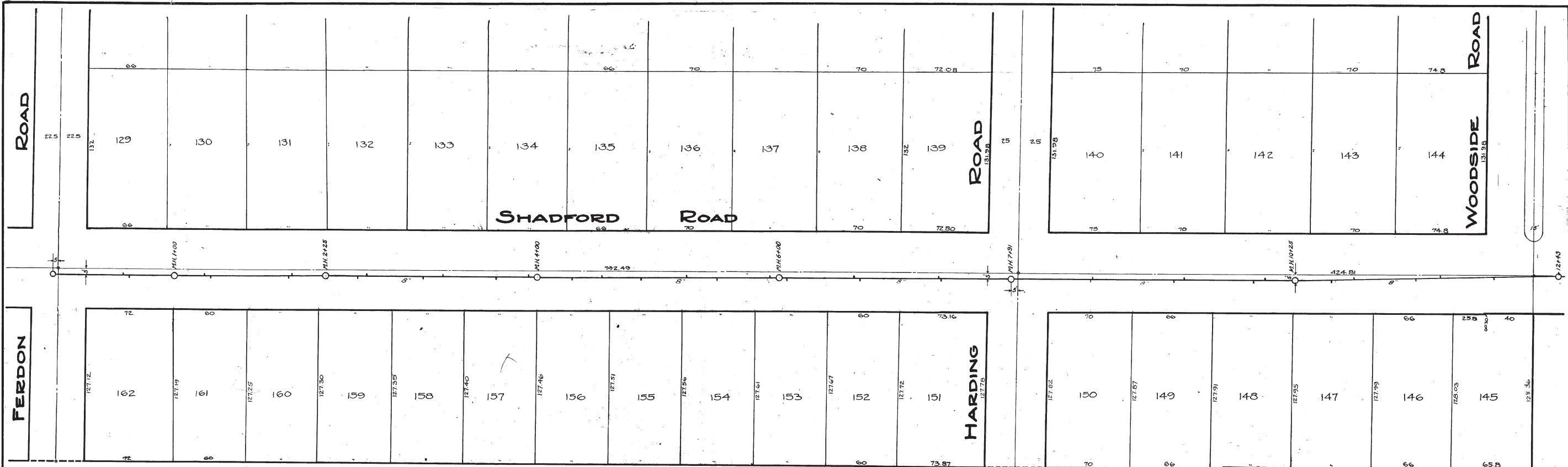
MEASUREMENTS TO HOUSE CONNECTIONS  
Ys only

North	South
0+77.2	0+153
1+18	1+108
1+68.5	1+68.5
2+25.5	1+99 M.H.
2+58	2+39
3+46.5	2+92.5
4+00	3+57
4+67.5	4+18.5
5+26.5	4+79
	5+34.5
	5+00.75 M.H.
	5+66.3 M.H.

Digital Status  
Scanned On: 2-22-05  
By: DGK  
Despeckled: Yes  
Vectors:  
O.C.R.:

SHEET No.	CITY ENGINEERS OFFICE
INDEX No. 1311	ANN ARBOR MICH.
SHELF 6	PLAN AND PROFILE
SIZE C	OF
SUB No. 585	SANITARY SEWER
	ON
	<b>SHADFORD RD.</b>
	BALDWIN AVE TO FERDON RD.
Drawn by	Geo. H. Sandenburgh, City Engineer
Traced by	
Checked by	
	1925-3-30
	Scales Plan 1"=40' Profile Horizontal 1"=40' Vertical 1"=10'





**HOUSE CONNECTIONS**

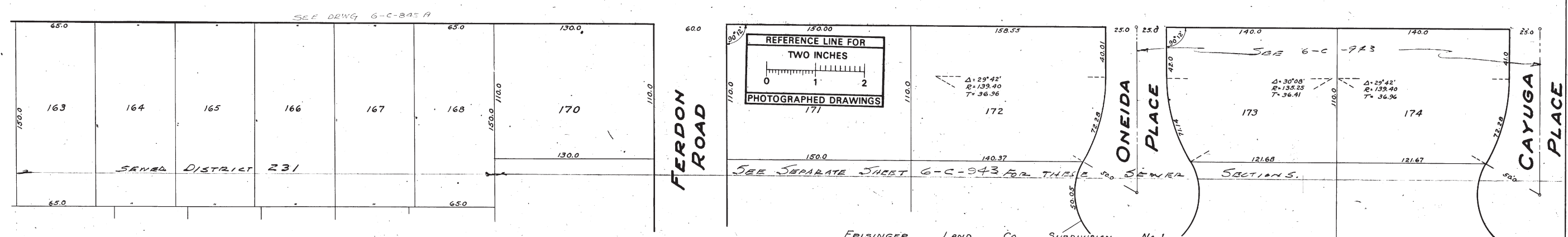
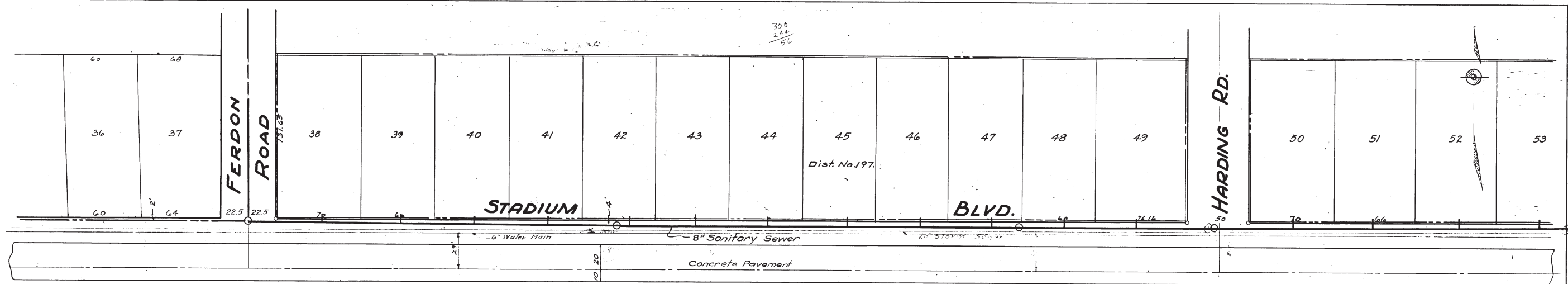
North	South
Lot 129, 0+58.2	0+00 M.H. at Ferdon Rd.
- 130, 1+25	1+00 M.H.
- 131, 1+97	1+30 Lot 161
	1+95 - 160
- 132, 2+60	2+25 M.H.
- 133, 3+23.5, 1R	2+52 - 159
- 134, 3+93.2, 1R	3+06 - 158, 1R
	3+67.5 - 157
- 135, 4+54, 1R	4+00 M.H.
- 136, 5+24, 2R	4+29.5 - 156
- 137, 5+93, 2R	4+86.8 - 155, 1R
	5+49.5 - 154, 2R
- 138, 6+63, 2R	6+00 M.H.
- 139, 7+33, 1R	6+07.3 - 153, 2R
	6+68 - 152, 2R
	7+35 - 151, 1R
- 140, 8+58.5, 1R	7+91 M.H. at Harding Rd.
- 141, 9+33.8	8+56.5 - 150
- 142, 10+00.5	9+25.8 - 149
	9+91.5 - 148
- 143, 10+72	10+25 M.H.
- 144, 11+45.5	10+53.8 - 147
	11+25.7 - 146
	11+90 - 145
	12+43 M.H. at Woodside Rd.

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

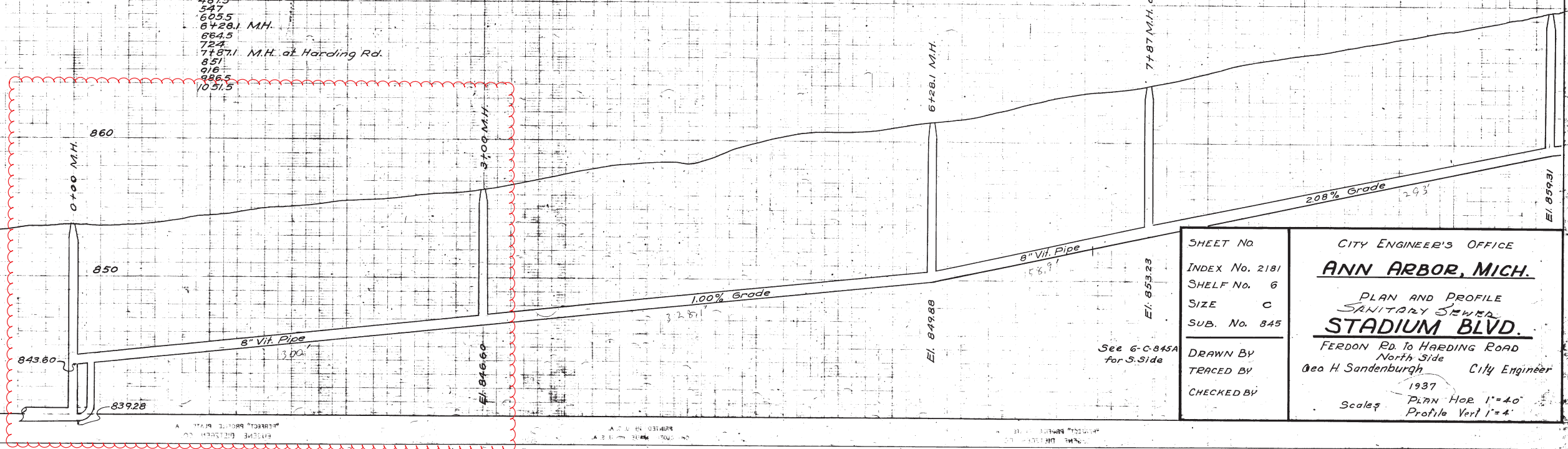
SHEET INDEX 1913  
 SHELF 6  
 SIZE C  
 SUB. 713  
 DRAWN KWD  
 TRACED KWD  
 CHECKED GMB

CITY ENGINEER'S OFFICE  
**ANN ARBOR, MICH.**  
 PLAN AND PROFILE  
 OF  
 SANITARY SEWER (Dist. 189)  
 ON  
**SHADFORD ROAD**  
 FERDON TO WOODSIDE  
 GEORGE H. SANDENBURGH, CITY ENGINEER  
 1930  
 PLAN 1"=40'  
 PROFILE 1"=4'





- CONNECTIONS**  
 1/8 North Only  
 0+00 M.H. @ Ferdon Rd.  
 59.5  
 124.5  
 184  
 244  
 3+00 M.H.  
 310.5  
 365  
 423.3  
 487.5  
 547  
 6+05.5  
 6+28.1 M.H.  
 684.5  
 724  
 7+87.1 M.H. @ Harding Rd.  
 851  
 916  
 986.5  
 1051.5

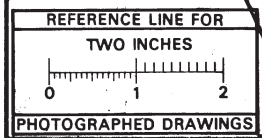
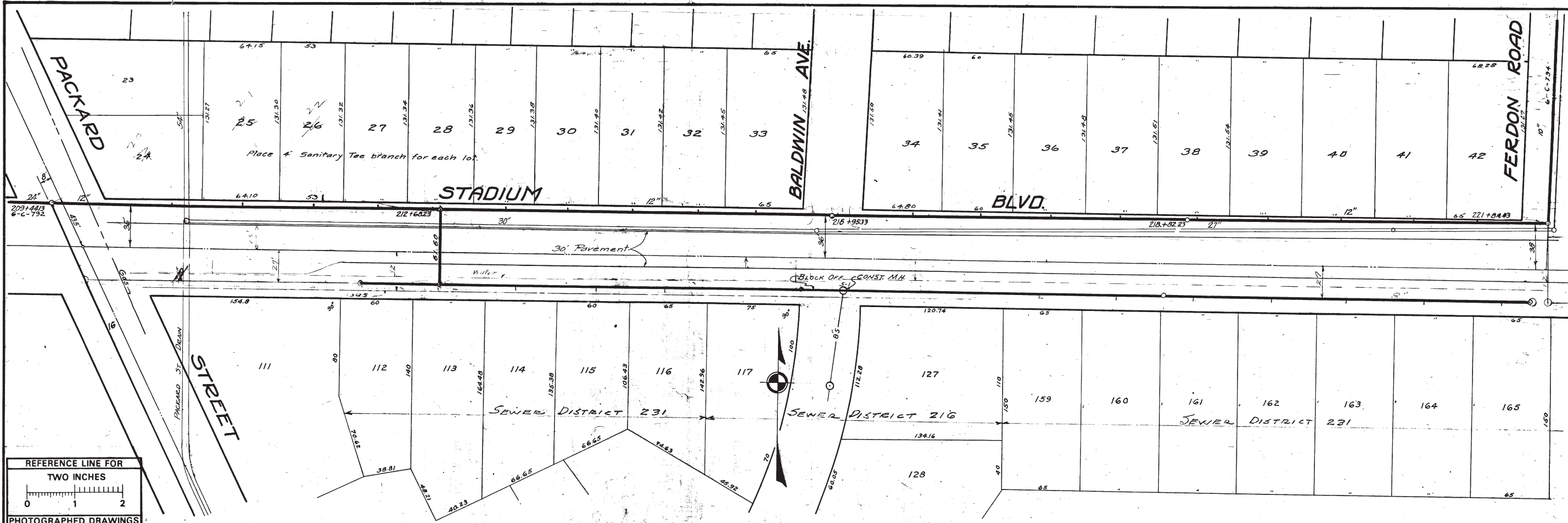


Digital Status  
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 By: DGK  
 Despeckled: Yes  
 Vectors:  
 O.C.R.:

SHEET No.  
 INDEX No. 2181  
 SHELF No. 6  
 SIZE C  
 SUB. No. 845  
 DRAWN BY  
 TRACED BY  
 CHECKED BY

CITY ENGINEER'S OFFICE  
**ANN ARBOR, MICH.**  
 PLAN AND PROFILE  
 SANITARY SEWER  
**STADIUM BLVD.**  
 FERDON RD. to HARDING ROAD  
 North Side  
 Geo. H. Sandenburgh City Engineer  
 1937  
 Scale: PLAN HOR 1"=40'  
 PROFILE VERT 1"=4'

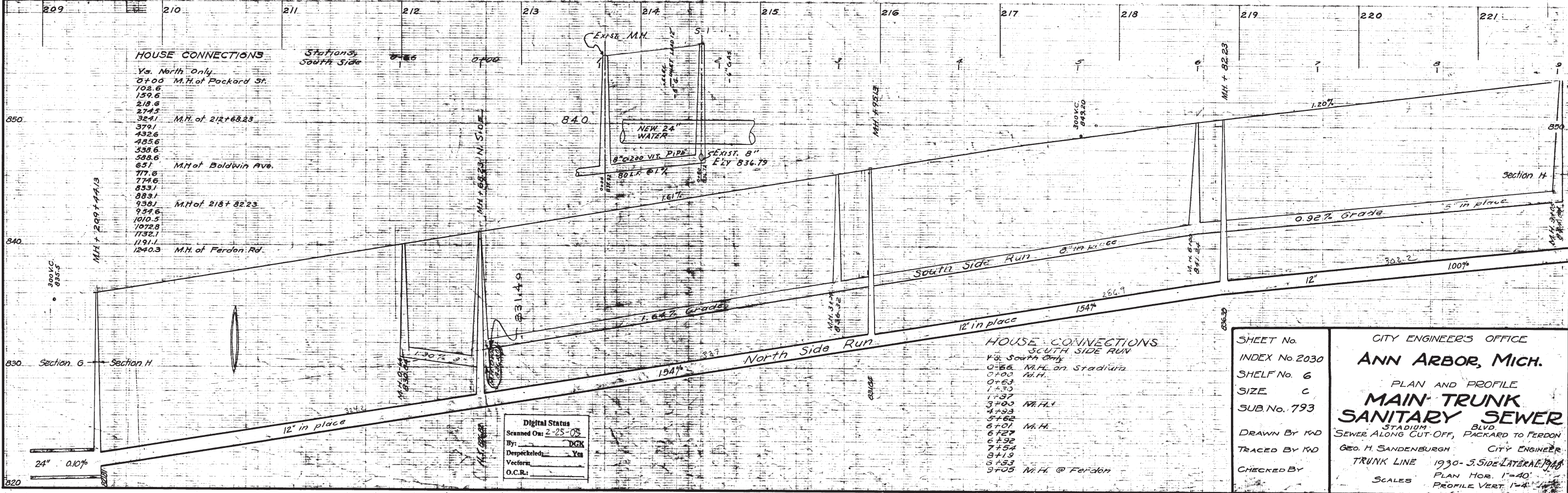
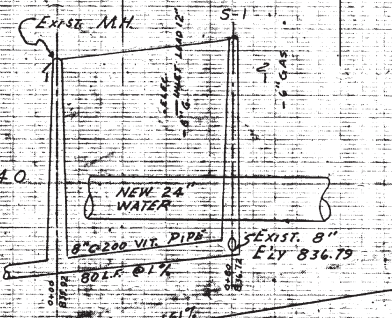




**HOUSE CONNECTIONS**  
Vs. North Only

0+00	M.H. of Packard St.
103.6	
159.6	
218.6	
274.5	
329.1	M.H. of 212+68.23
379	
432.6	
485.6	
538.6	
588.6	
631	M.H. of Baldwin Ave.
777.8	
774.6	
853.1	
883.1	
938.1	M.H. of 218+82.23
994.6	
1010.5	
1072.8	
1132.1	
1191.1	
1240.3	M.H. of Ferdon Rd

Stations:  
South Side



**HOUSE CONNECTIONS**  
SOUTH SIDE RUN  
Vs. South Only

0+50	M.H. on Stadium
0+63	M.H.
1+30	
1+37	
3+00	M.H.
4+93	
5+62	
6+01	M.H.
6+29	
6+92	
7+54	
8+19	
8+53	
9+05	M.H. @ Ferdon

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

SHEET No. \_\_\_\_\_  
INDEX No. 2030  
SHELF No. 6  
SIZE C  
SUB. No. 793

**CITY ENGINEER'S OFFICE**  
**ANN ARBOR, MICH.**

PLAN AND PROFILE  
**MAIN TRUNK SANITARY SEWER**  
STADIUM BLVD. SEWER ALONG CUT-OFF, PACKARD TO FERDON

DRAWN BY KWD  
TRACED BY KWD  
CHECKED BY \_\_\_\_\_

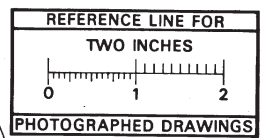
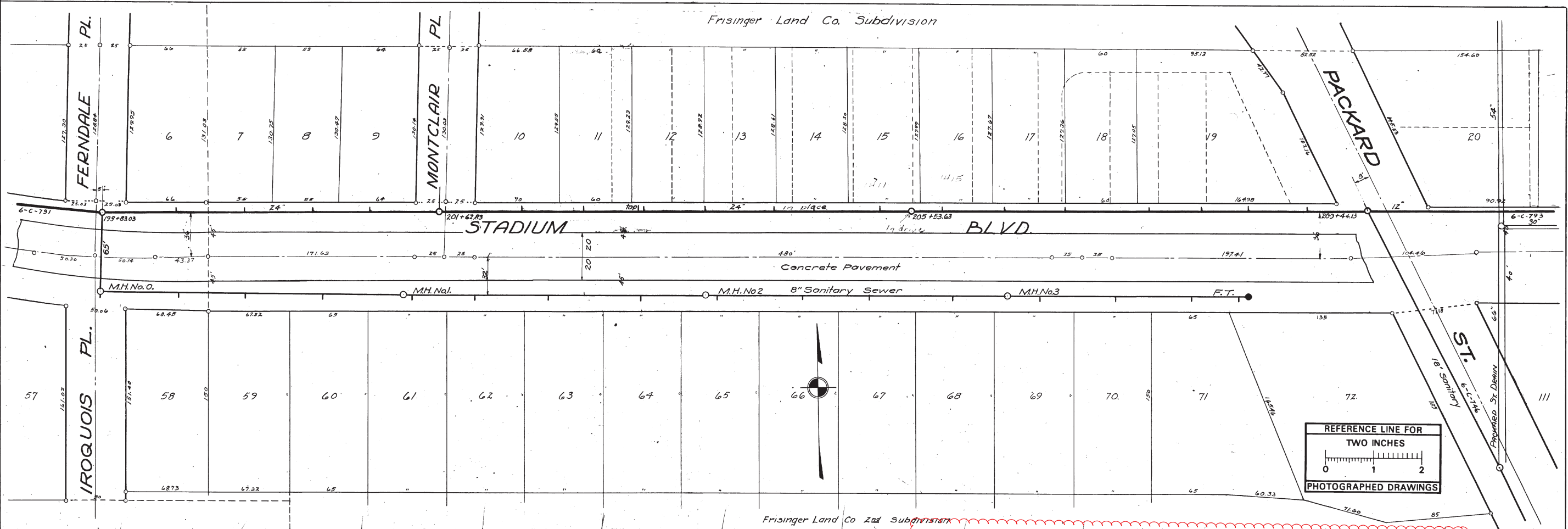
Geo. H. Sandenburgh  
CITY ENGINEER

TRUNK LINE 1930-3 Side Lateral Pipe  
PLAN HOR. 1"=40'  
SCALES PROFILE VERT. 1"=4'

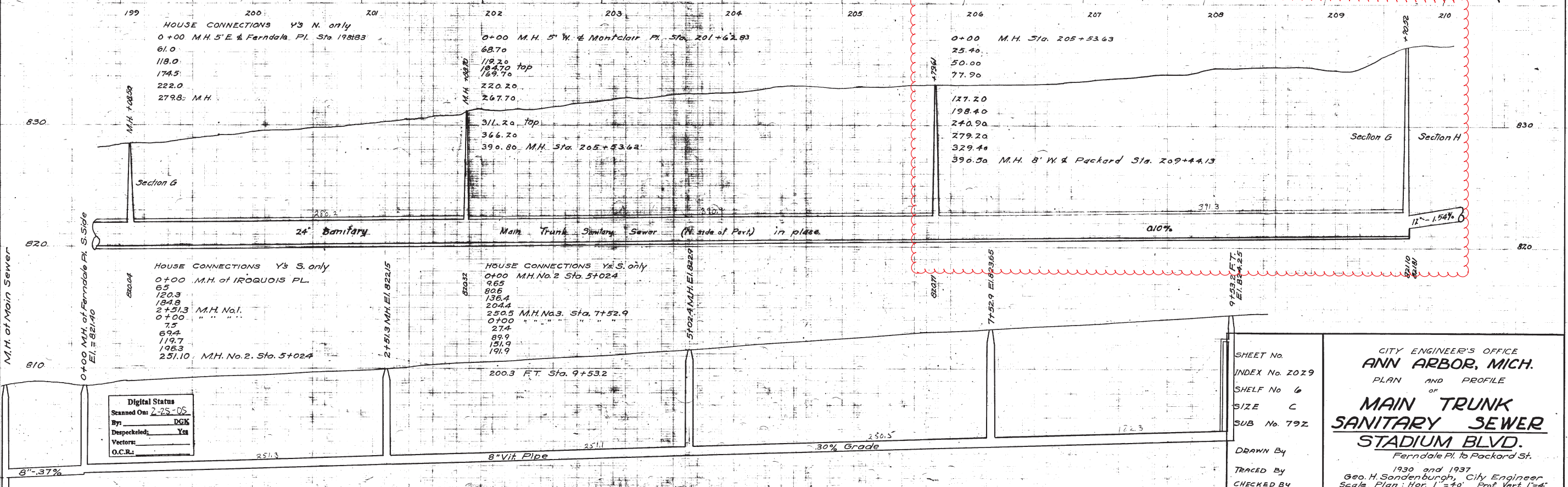
STADIUM BLVD S.S. Packard to Ferdon



Frisinger Land Co. Subdivision



Frisinger Land Co. 2nd Subdivision



HOUSE CONNECTIONS Y's N. only  
 0+00 M.H. 5' E & Ferdale Pl. Sta. 198.83  
 61.0  
 118.0  
 174.5  
 222.0  
 279.8: M.H.

0+00 M.H. 5' W & Montclair Pl. Sta. 201+62.83  
 68.70  
 119.20  
 184.70 top  
 189.70  
 220.20  
 267.70

0+00 M.H. Sta. 205+53.63  
 25.40  
 50.00  
 77.90  
 127.20  
 198.40  
 240.90  
 279.20  
 329.40  
 390.50 M.H. 8' W & Packard Sta. 209+44.13

HOUSE CONNECTIONS Y's S. only  
 0+00 M.H. of IROQUOIS PL.  
 65  
 120.3  
 184.8  
 2+51.3 M.H. No. 1.  
 0+00  
 7.5  
 69.2  
 119.7  
 196.3  
 251.10 M.H. No. 2. Sta. 5+02.4

HOUSE CONNECTIONS Y's S. only  
 0+00 M.H. No. 2 Sta. 5+02.4  
 965  
 806  
 136.4  
 204.4  
 250.5 M.H. No. 3. Sta. 7+52.9  
 0+00  
 27.4  
 89.9  
 151.9  
 191.9

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

SHEET No.  
 INDEX No. 2029  
 SHELF No. 6  
 SIZE C  
 SUB No. 792  
 DRAWN By  
 TRACED By  
 CHECKED By

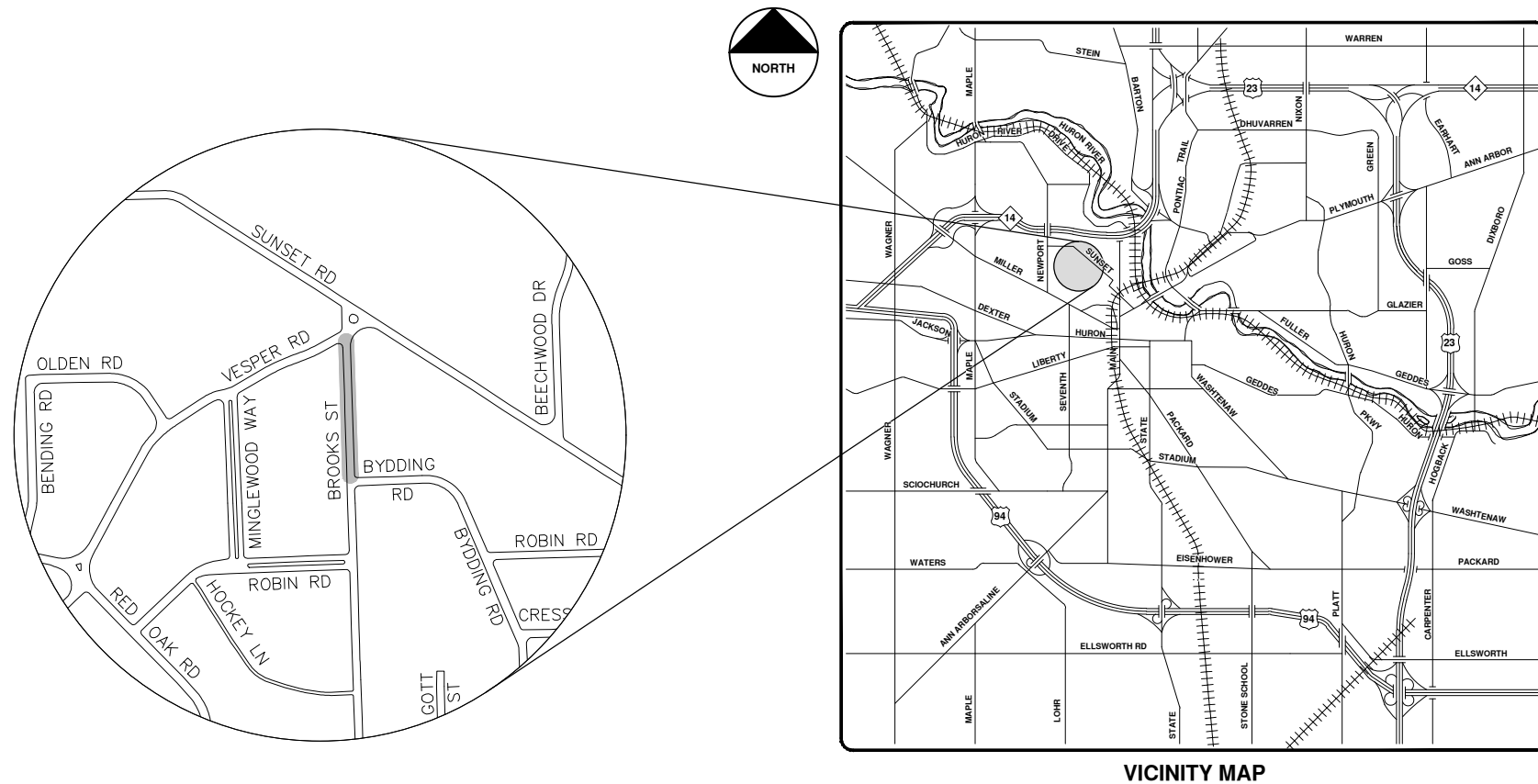
CITY ENGINEER'S OFFICE  
**ANN ARBOR, MICH.**  
 PLAN AND PROFILE  
 OF  
**MAIN TRUNK  
 SANITARY SEWER  
 STADIUM BLVD.**  
 Ferdale Pl. to Packard St.  
 1930 and 1937  
 Geo. H. Sondenburgh, City Engineer  
 Scale Plan: Hor. 1"=40' Prof. Vert. 1"=4'






# 2018 SANITARY SEWER LINING

## BROOKS ST



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg --\_a2 standard bw.stb -- Plot Date: 4/27/2018 9:47:07 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. 2017032-124  
 SHEET No. 124 OF 130

**© 2018 SANITARY SEWER LINING; LOCATION: BROOKS ST; 2017032**

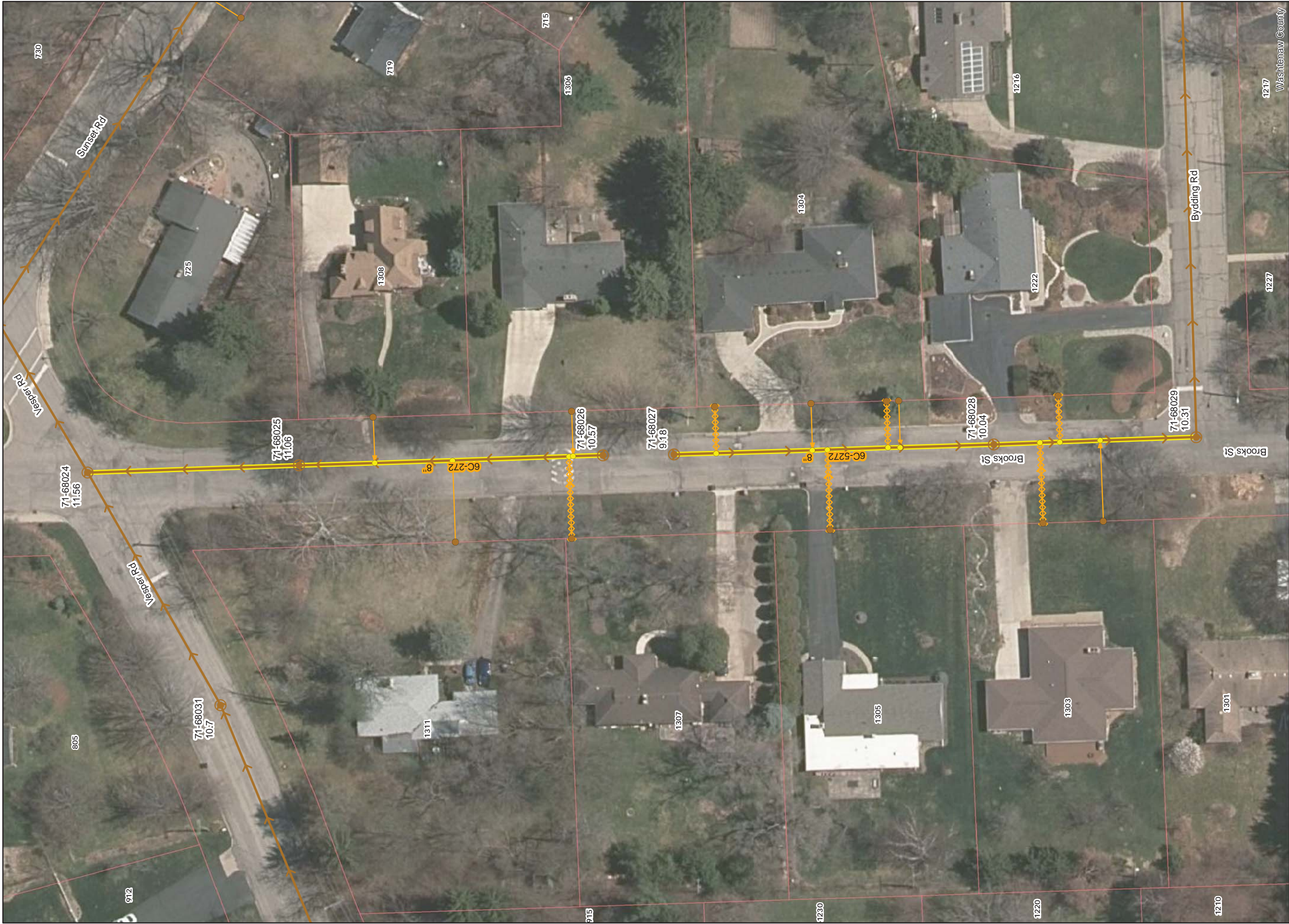
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	5-3-18	DPF	IVK


 Know what's below.  
 Call before you dig.

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







**Legend**

- ▶ Proposed Lining
- Sanitary Lateral, Abandoned
- Lined Pipe
- ▶ Sanitary Lateral
- ▶ Sanitary Main
- - - - -▶ Sanitary Lateral, Plugged
- Manhole

# Brooks St



71-70682 (Manhole ID)

5.07 (Manhole Depth)

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Feet

1217  
Washtenaw County

Brooks St

Bydding Rd

Brooks St

Sunser Rd

Vesper Rd

Vesper Rd

71-68031  
10.7

71-68024  
11.56

71-68025  
11.06

6C-272  
8"

71-68026  
10.57

71-68027  
9.18

6C-5272  
8"

71-68028  
10.04

71-68029  
10.31

730

719

715

1306

725

1308

1304

1216

1222

1217

1227

912

1311

1307

1305

1303

1301

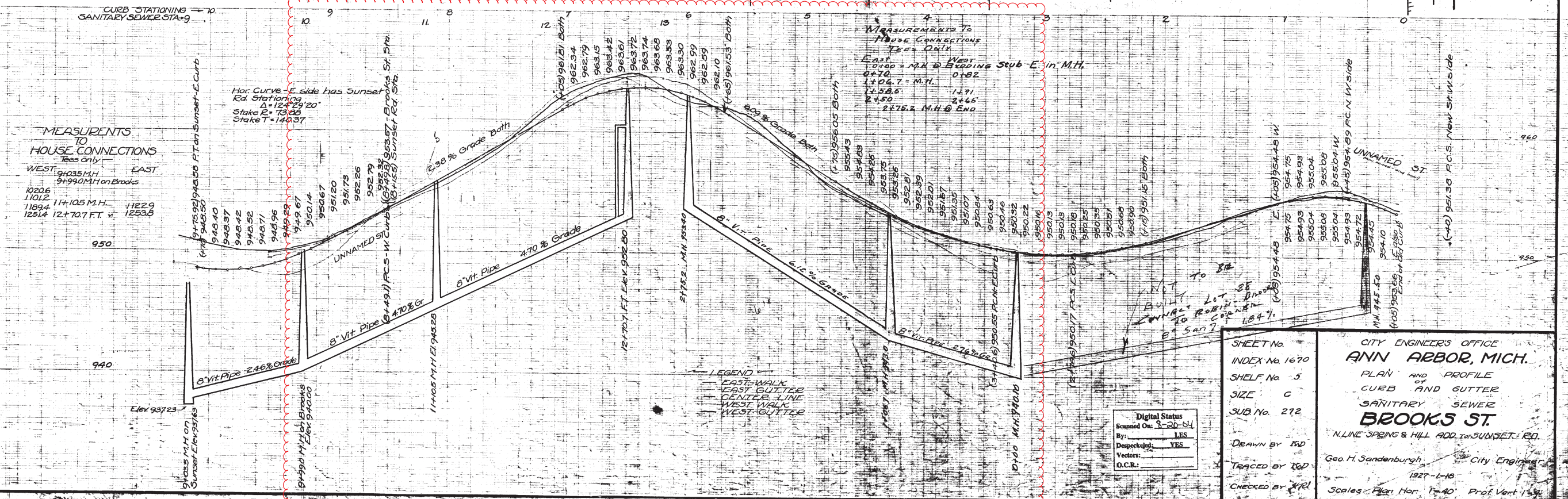
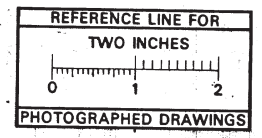
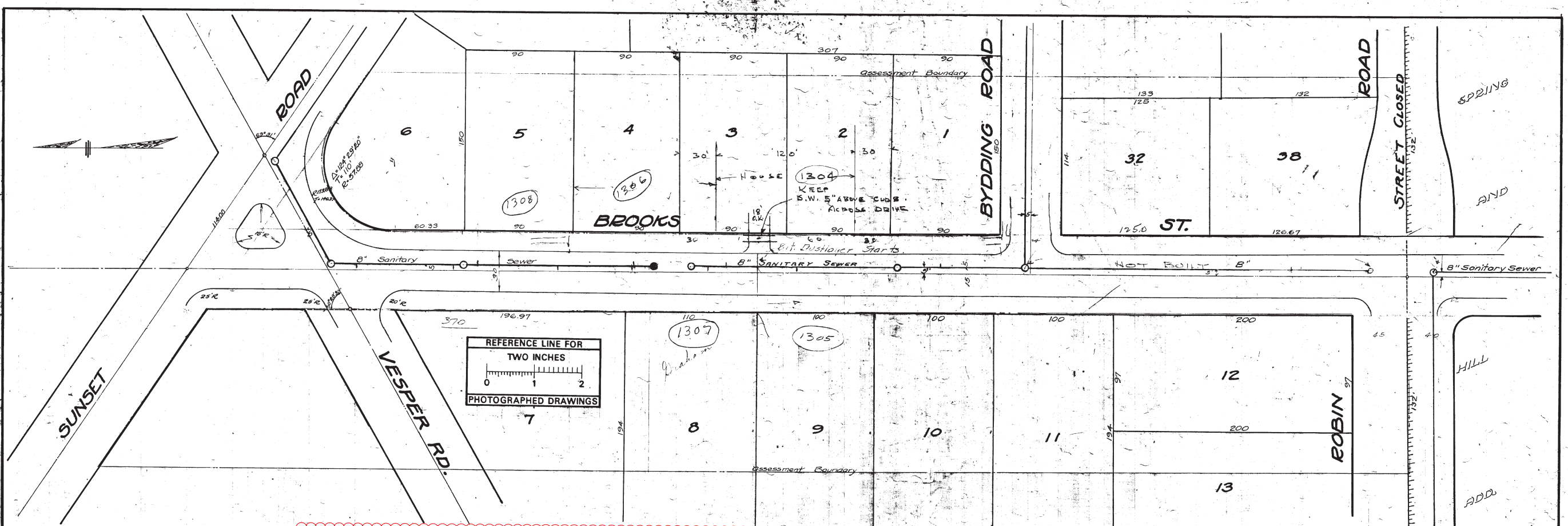
915

1230

1220

1210





MEASUREMENTS TO HOUSE CONNECTIONS  
 WEST 94035 M.H. 10206  
 94990 M.H. on Brooks 11012  
 11094 11+105 M.H. 11229  
 12514 12+707 FT. v. 12533

Hor. Curve E. side has Sunset Rd. Stationing Δ = 124° 29' 20" Stake R = 73.88 Stake T = 140.37

MEASUREMENTS TO HOUSE CONNECTIONS  
 EAST 7400 M.H. @ Bydding St. E. in M.H. 0+70  
 1+06.7 = M.H. 0+82  
 1+58.5 1+71  
 2+50 2+65  
 2+75.2 M.H. @ END

LEGEND  
 EAST-WALK  
 EAST GUTTER  
 CENTER LINE  
 WEST WALK  
 WEST GUTTER

Digital Status  
 Scanned On: 3-20-04  
 By: JES  
 Despeckled: YES  
 Vectors:  
 D.C.R.:

SHEET No. 1670  
 INDEX No. 5  
 SHELF No. 5  
 SIZE C  
 SUB No. 212  
 DRAWN BY ISD  
 TRACED BY T&D  
 CHECKED BY JRL

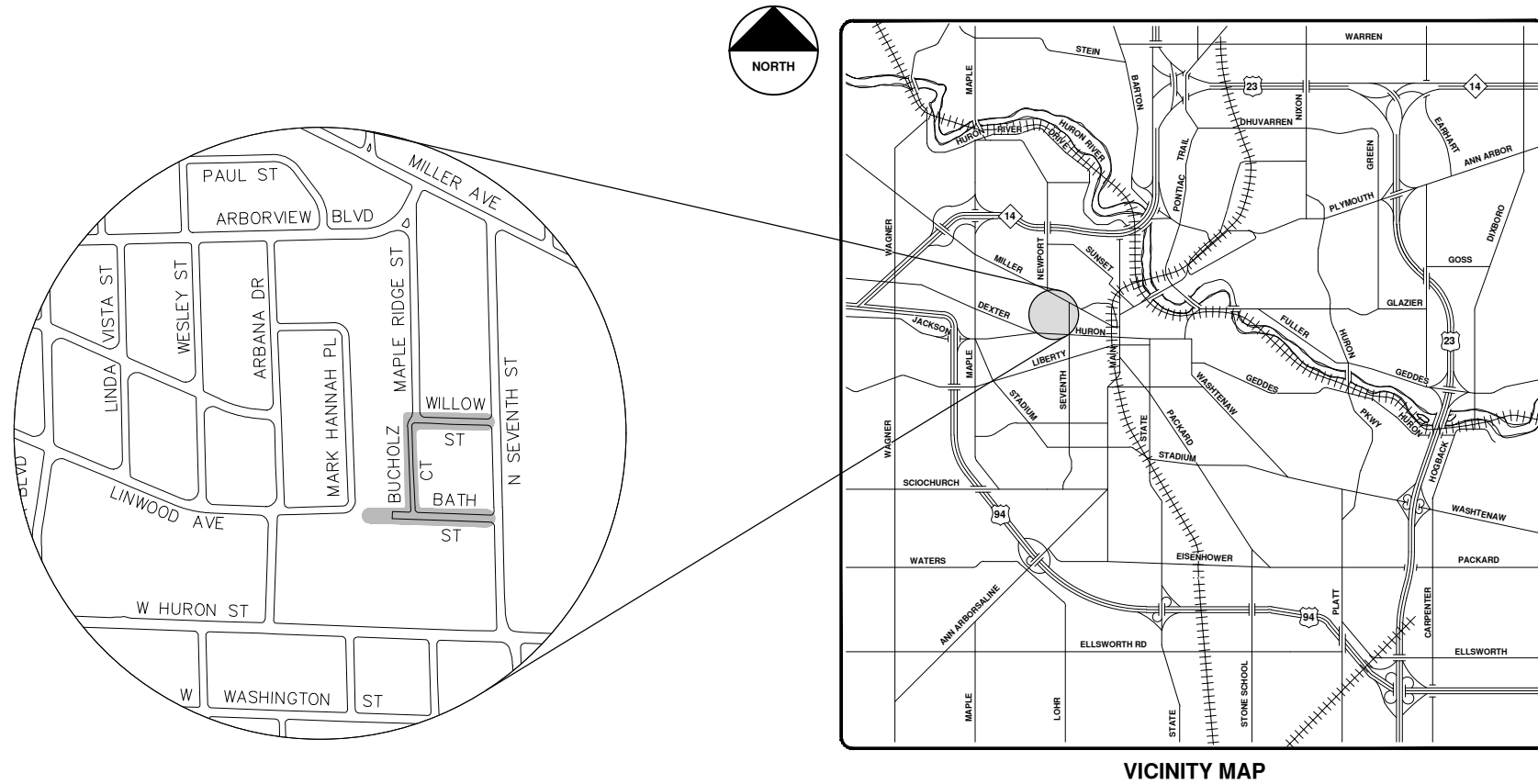
CITY ENGINEER'S OFFICE  
**ANN ARBOR, MICH.**  
 PLAN AND PROFILE  
 OF  
 CURB AND GUTTER  
 SANITARY SEWER  
**BROOKS ST**  
 N. LINE SPRING & HILL ADD. to SUNSET RD.  
 Geo. H. Sandenburgh, City Engineer  
 1927-1-18  
 Scales: Plan Hor. 1" = 40' Prof. Vert. 1" = 4'






# 2018 SANITARY SEWER LINING

## BUCHHOLZ CT



VICINITY MAP

R:\2017032 Sanitary Sewer Lining\Plan Production\2017032Cov.dwg --\_a2 standard bw.stb -- Plot Date: 4/27/2018 9:47:08 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. 2017032-127  
 SHEET No. 127 OF 130

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 ANN ARBOR, MI 48107-8647  
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	5-3-18	DPF	IVK

Know what's below. Call before you dig.

© 2018 SANITARY SEWER LINING; LOCATION: BUCHHOLZ CT; 2017032





**Legend**

- ▶ Proposed Lining
- ▶ Lined Pipe
- ▶ Sanitary Main
- ▶ Sanitary Lateral, Abandoned
- ▶ Sanitary Lateral
- ▶ Sanitary Lateral, Plugged
- Manhole

# Buchholz Ct



71-70682 (Manhole ID)  
5.07 (Manhole Depth)

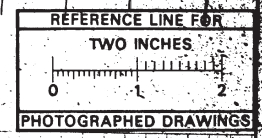
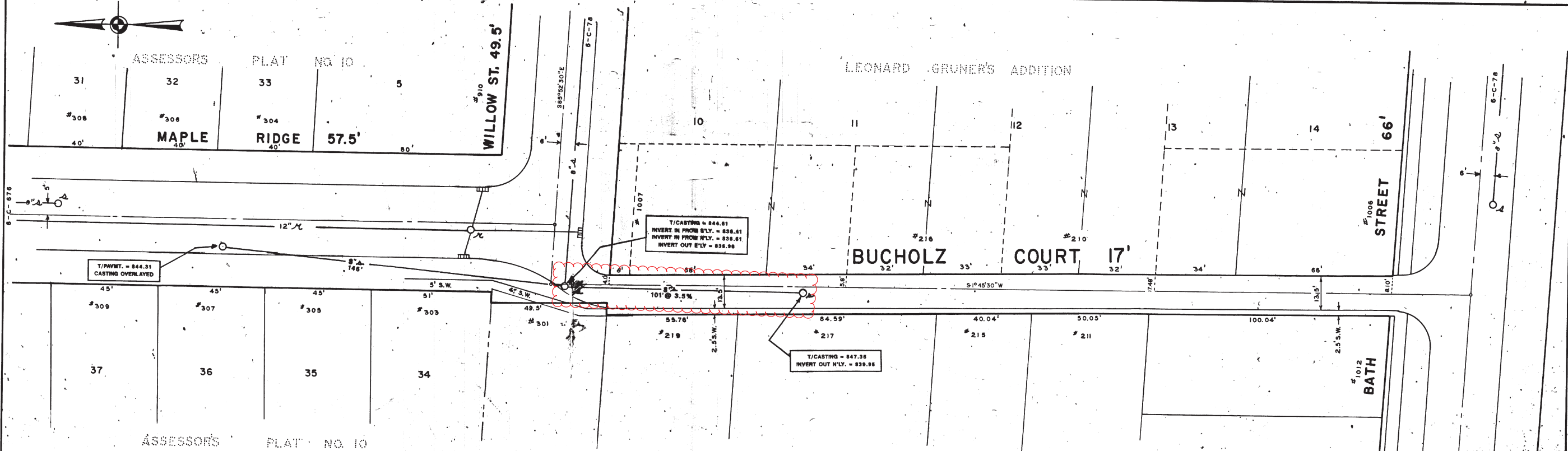
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Washington County



POST 1386-54



Digital Status  
Scanned On: 7-5-08  
By: DSK

DR. BY	L.F.S.	DATE	1/75	SHEET NO.	
TR. BY		INDEX NO.	7647	SHEET NO.	
CH. BY		6-C-5085		SANITARY SEWER	
REVISIONS		SCALE: HORIZONTAL 1" = 20'		BUCHHOLZ COURT	
		VERTICAL 1" = 20'		FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS	
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN					
JOB		DIST.		PREPARED BY	
JOB		DIST.		APPROVED BY	
JOB		DIST.			
JOB		DIST.			

**LEGEND:**

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

**REFERENCES:**

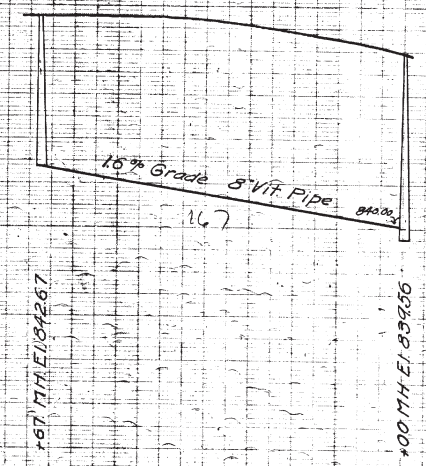
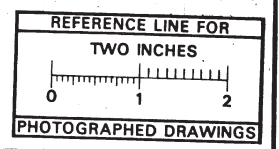
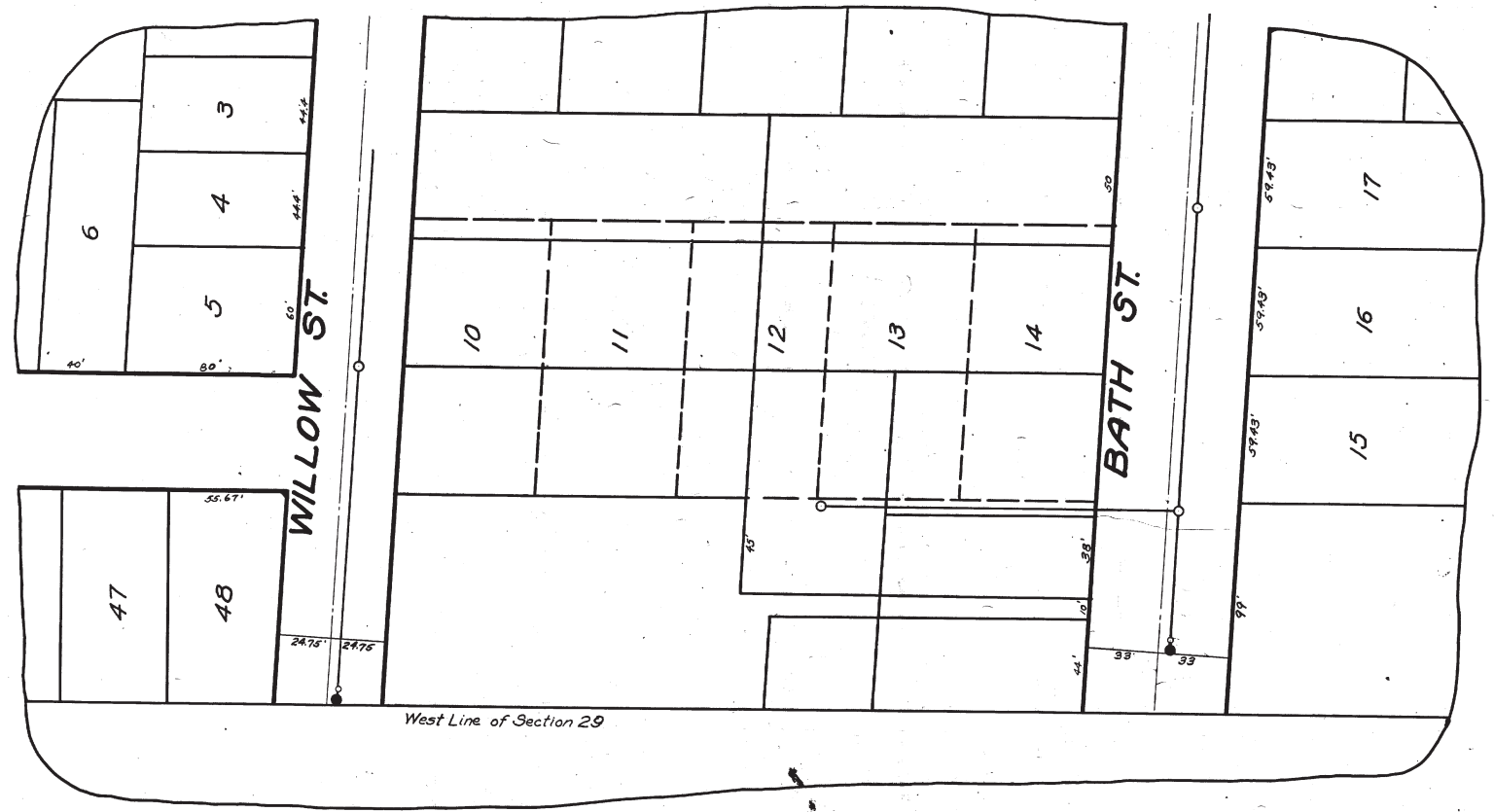
BENCH MARK: 3-F-107

DRAWINGS: C/G 6-C-2377, ATWELL-HICKS #215-30

PROFILES BY: \_\_\_\_\_

FIELD BOOK: \_\_\_\_\_





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

SHEET No. 37  
 INDEX No. 742  
 SHELF No. 6  
 SIZE C  
 SUB No. 128

Drawn by  
 Traced by  
 Checked by

CITY ENGINEERS OFFICE  
**ANN ARBOR MICH.**  
 PLAN AND PROFILE  
 OF  
 SANITARY SEWER  
**BUCHHOLZ COURT**  
 BETWEEN BATH AND WILLOW  
 Manley Osgood, City Engineer.  
 1917  
 Scales Plan 1"=40' Profile Horizontal 1"=4'