

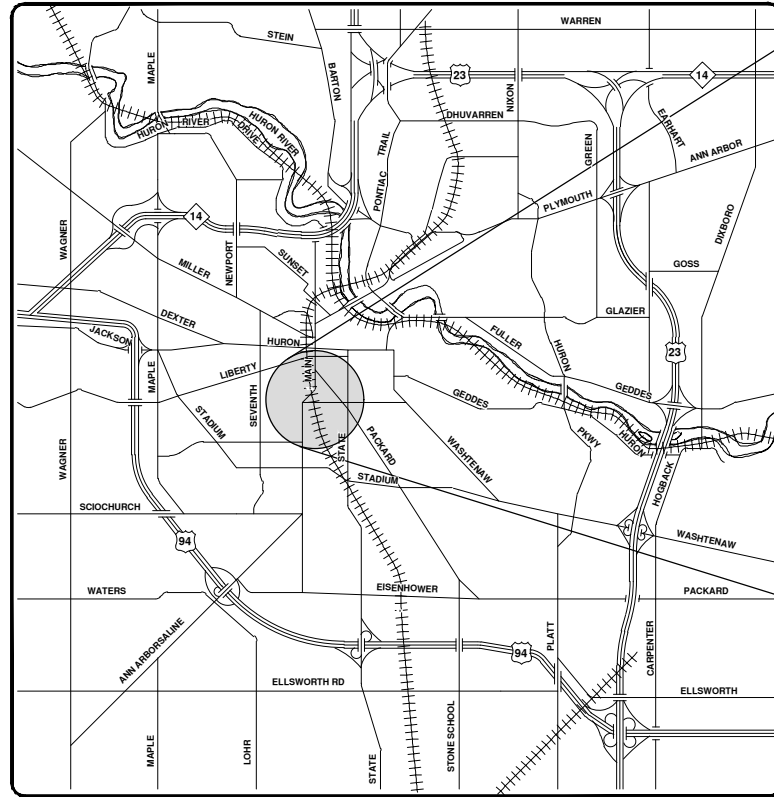


CITY OF ANN ARBOR ENGINEERING

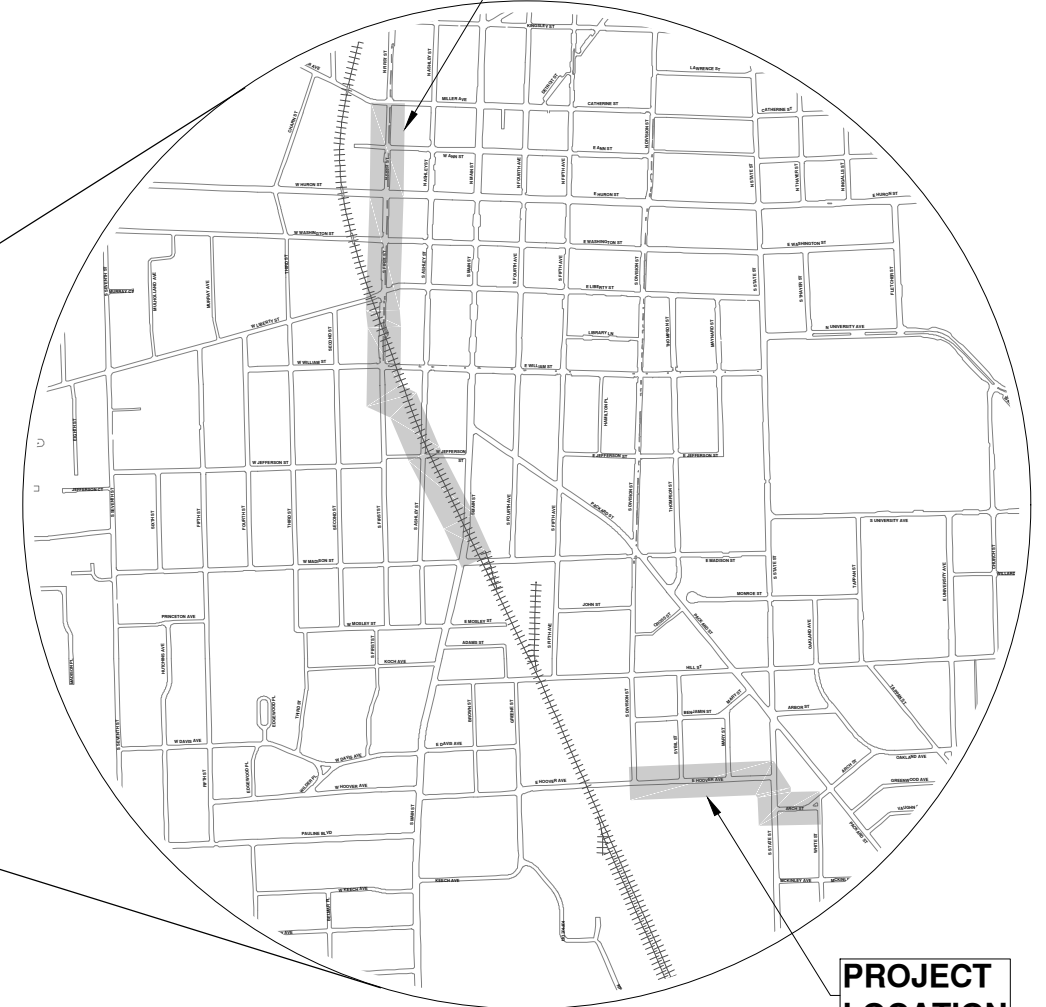
HIGH LEVEL TRUNKLINE SANITARY SEWER REHAB

RFP No. 22-70, FILE No. 2022024

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	LOCATION MAP
3 - 6	BYPASS DETAILS
7	JEFFERSON TO WILLIAM BYPASS OVERVIEW
8	STATE TO DIVISION BYPASS OVERVIEW
9	WASHINGTON TO MILLER BYPASS OVERVIEW
10	WILLIAM TO WASHINGTON BYPASS OVERVIEW
11 - 14	CROSSLOT (S. ASHLEY ST. TO S. FIRST ST.)
15 - 18	S. FIRST STREET (W. LIBERTY ST. TO W. HURON ST.)
19 - 21	S. FIRST STREET (W. HURON ST. TO MILLER AVE.)
22 - 23	E. HOOVER AVE. (S. DIVISION ST. TO S. STATE ST.)
24 - 25	S. STATE ST. & ARCH ST. (E. HOOVER ST. TO WHITE ST.)
26 - 29	XLOT (W. JEFFERSON ST. TO W. LIBERTY ST.)
30 - 32	XLOT (S. MAIN ST. / E. MADISON ST. TO S. ASHLEY ST. / W. JEFFERSON ST.)



VICINITY MAP



PROJECT LOCATION

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 OF THIS REQUIREMENT.



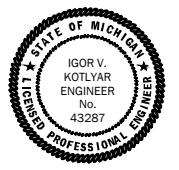
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		DK
		DFP
		DRAWN
		CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
734-794-4410
www.a2gov.org



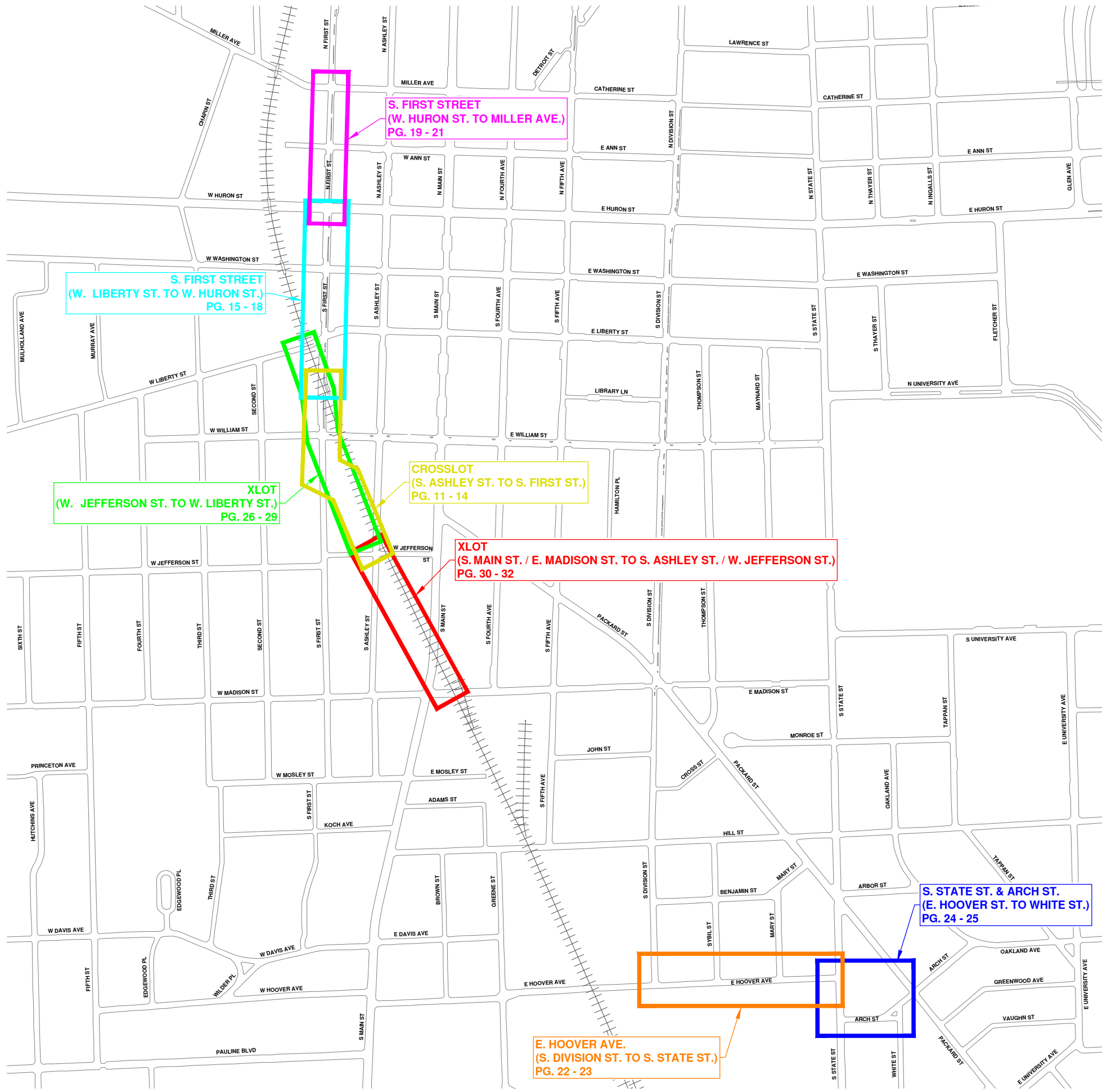
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
PROJECT DESCRIPTION AND LIMITS

PREPARED UNDER THE SUPERVISION OF
Kotlyar
IGOR V. KOTLYAR, P.E. - MI LICENSE No. 43287
PROJECT ENGINEER
9 / 21 / 2022
DATE



R:\2022024 High Level San Sew Rehab\Plan Production\2022024Cov.dwg - _c2 standard bw.stb - Plot Date: 9/21/2022 2:07:28 PM

© HIGH LEVEL TRUNKLINE SANITARY SEWER REHAB; RFP No. 22-70; 2022024



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
HIGH LEVEL TRUNKLINE SANITARY SEWER REHAB

SCALE: 1" = 300'
 DRAWING No. 2022024-2

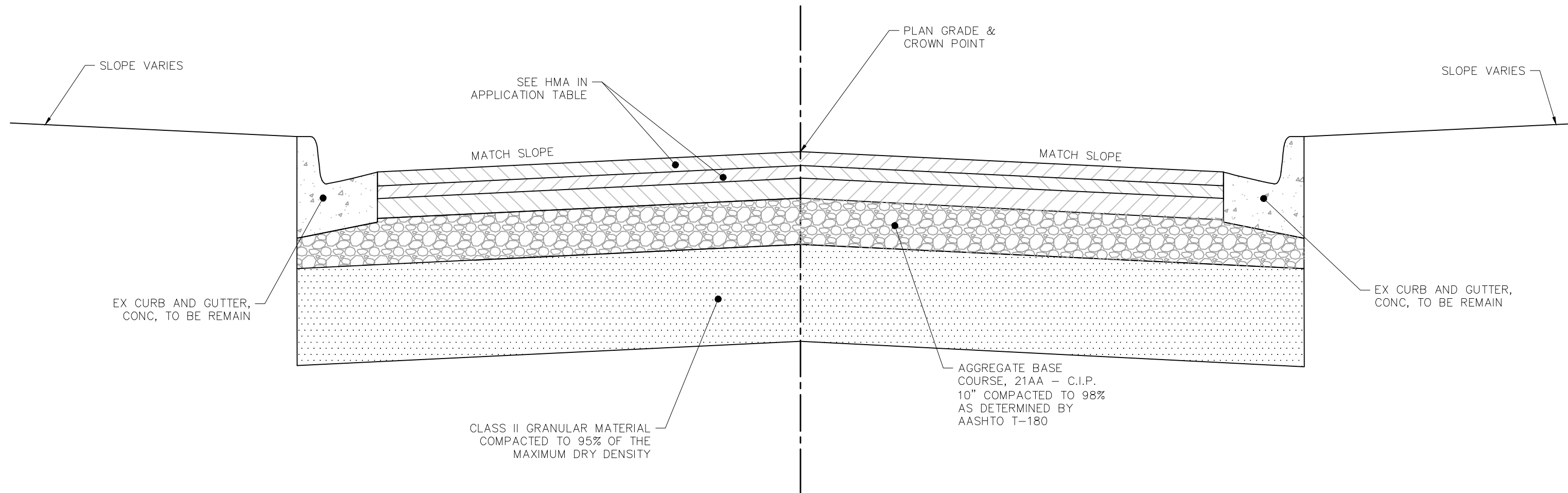
LOCATION MAP

SHEET No. **2 OF 32**

CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-8667
 734-794-4410
 www.a3gov.org

REV.	DATE	DESCRIPTION
00	9-21-22	OUT FOR BID
01		DRAWN
02		DPF
03		CHK

Know what's below.
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HMA APPLICATION ESTIMATE					
HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
5E1	220 LB/SYD	2	260 (TOP)	64-28	TOP COURSE
4E1	220 LB/SYD	2	-	64-28	LEVELING COURSE
3E1	330 LB/SYD	3	-	64-28	BASE COURSE
Bond Coat SS-1h	0.05 - 0.15 GAL/SYD	-	-	-	INCLUDE IN COST OF HMA ITEM

ROAD CROSS-SECTION DETAIL

u:\2075157600\civil\design\drawing\157600ex-01

2022.06.30 2:08:25 PM



Stantec Consulting Michigan Inc.
3754 Ranchero Drive
Ann Arbor MI 48108-2771
Tel: (734) 761-1010
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NOTE:

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS DIG PRIOR TO CONSTRUCTION.

Client

CITY OF ANN ARBOR

Project

HIGH LEVEL TRUNK LINE

Title

ROAD CROSS-SECTION DETAIL

Project No.

2075157600

Scale

NO SCALE

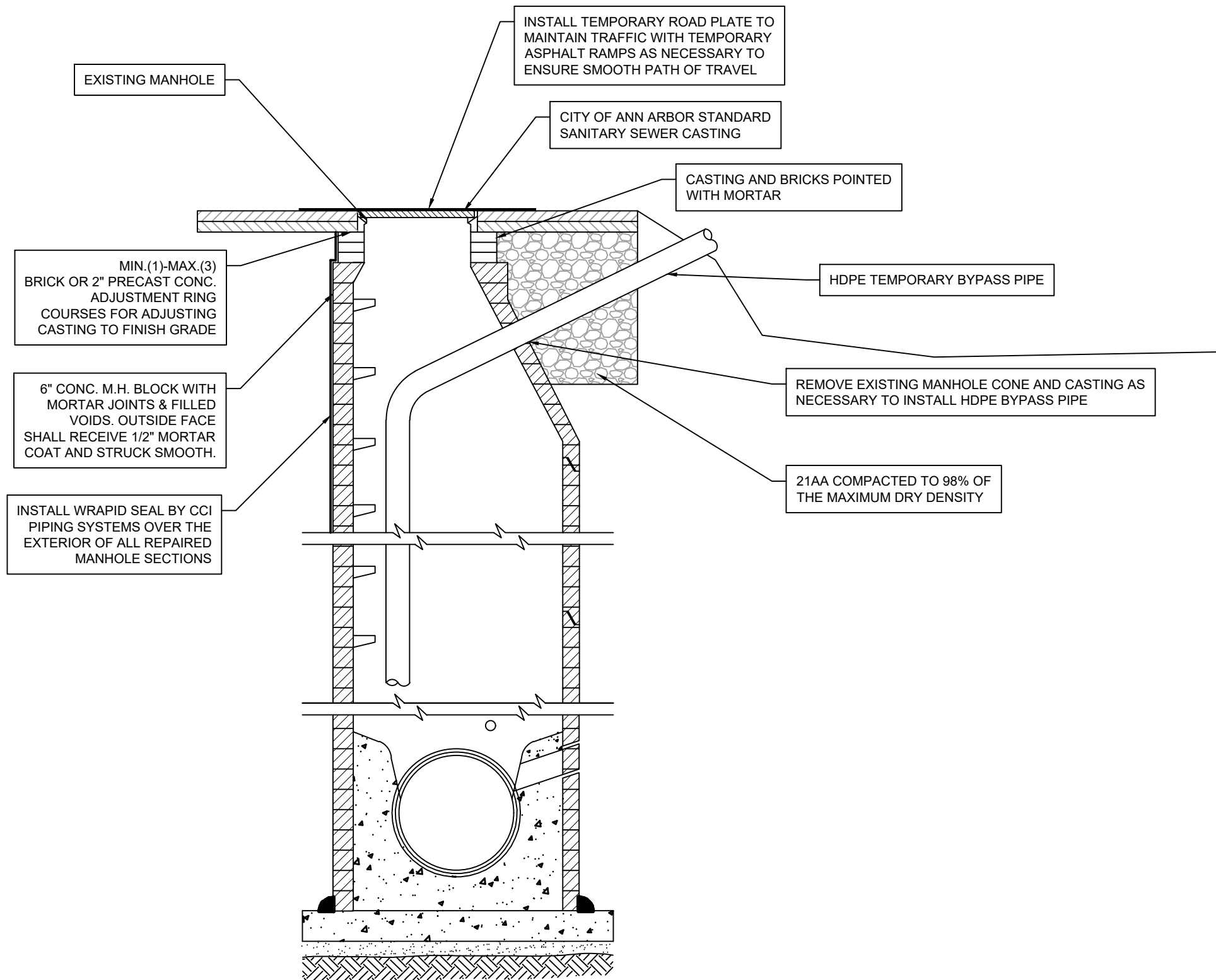
Figure No.

01

Sheet

1 of 5

u:\2075157600\civil\design\drawing\157600ex-01



BYPASS MANHOLE DETAIL



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Client

CITY OF ANN ARBOR

Project

HIGH LEVEL TRUNK LINE

Title

SANITARY SEWER
DETAIL

Project No.

2075157600

Scale

NO SCALE

Figure No.

02

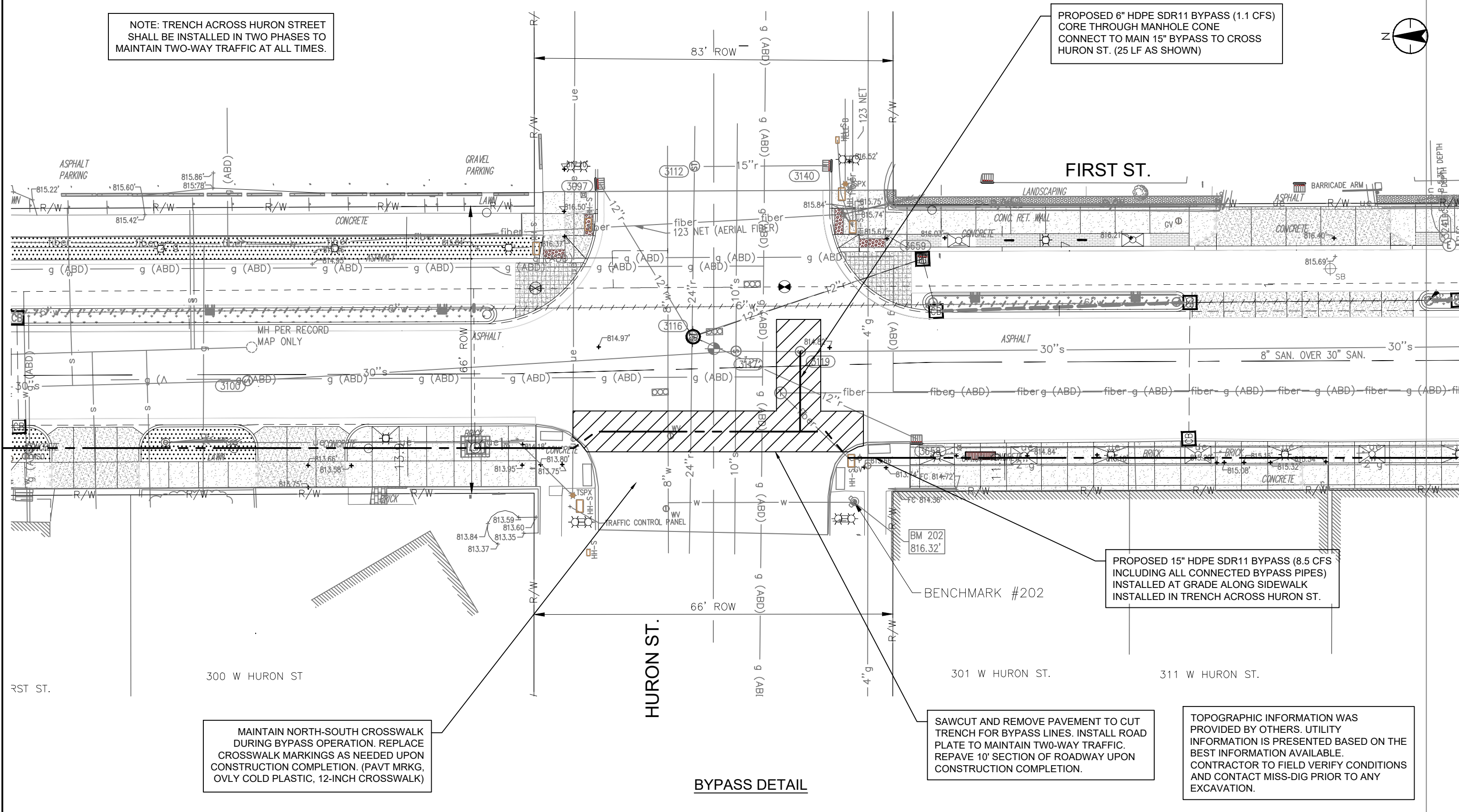
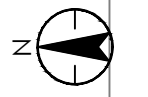
Sheet

2 of 5

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NOTE: TRENCH ACROSS HURON STREET SHALL BE INSTALLED IN TWO PHASES TO MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES.

PROPOSED 6" HDPE SDR11 BYPASS (1.1 CFS) CORE THROUGH MANHOLE CONE CONNECT TO MAIN 15" BYPASS TO CROSS HURON ST. (25 LF AS SHOWN)



MAINTAIN NORTH-SOUTH CROSSWALK DURING BYPASS OPERATION. REPLACE CROSSWALK MARKINGS AS NEEDED UPON CONSTRUCTION COMPLETION. (PAVT MRKG, OVLY COLD PLASTIC, 12-INCH CROSSWALK)

PROPOSED 15" HDPE SDR11 BYPASS (8.5 CFS INCLUDING ALL CONNECTED BYPASS PIPES) INSTALLED AT GRADE ALONG SIDEWALK INSTALLED IN TRENCH ACROSS HURON ST.

SAWCUT AND REMOVE PAVEMENT TO CUT TRENCH FOR BYPASS LINES. INSTALL ROAD PLATE TO MAINTAIN TWO-WAY TRAFFIC. REPAVE 10' SECTION OF ROADWAY UPON CONSTRUCTION COMPLETION.

TOPOGRAPHIC INFORMATION WAS PROVIDED BY OTHERS. UTILITY INFORMATION IS PRESENTED BASED ON THE BEST INFORMATION AVAILABLE. CONTRACTOR TO FIELD VERIFY CONDITIONS AND CONTACT MISS-DIG PRIOR TO ANY EXCAVATION.

BYPASS DETAIL

Stantec Consulting Michigan Inc.
3754 Ranchero Drive
Ann Arbor MI 48108-2771
Tel: (734) 761-1010
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Issued	By	Appd	YYYY.MM.DD

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Client
CITY OF ANN ARBOR

Project
HIGH LEVEL TRUNK LINE

Title
BYPASS DETAIL

Project No.
2075157600

Scale
1" = 20'

Figure No.
04

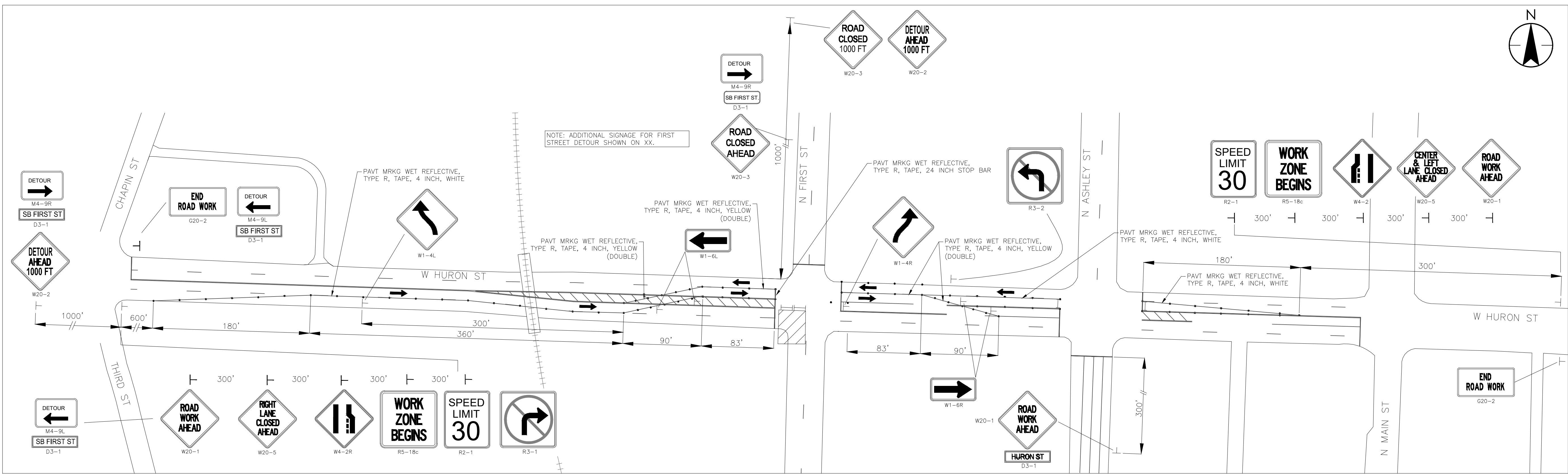
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4 of 5

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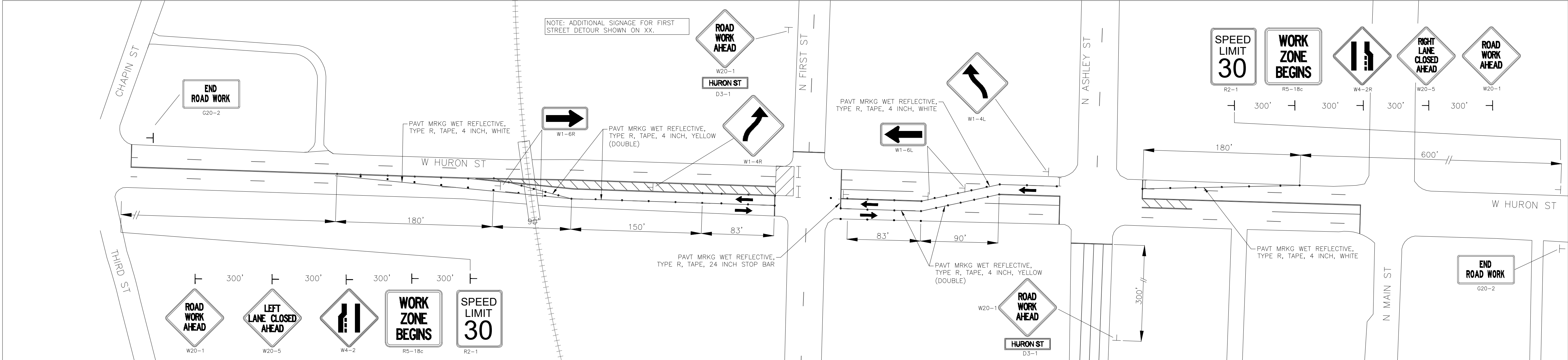
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Notes

D
C
B
A



HURON ST AT FIRST ST INTERSECTION
STAGING - PHASE 1



HURON ST AT FIRST ST INTERSECTION
STAGING - PHASE 2

- LEGEND**
- T TEMPORARY SIGN
 - [Hatched Box] WORK ZONE
 - CHANNELIZING DEVICE
 - [Arrow] FLOW ARROWS
 - [Barricade Symbol] TYPE III BARRICADE
 - [Lighted Arrow Board Symbol] LIGHTED ARROW BOARD

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

NOTE:
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS DIG PRIOR TO CONSTRUCTION.

PRELIMINARY PLAN	BWA	PJM	2022.06.29
Issued	By	Acqpd	YYYY.MM.DD
File Name: 157400EX-01	BWA	PJM	2022.06.29
	Dwn.	Dgrr.	Chkd.

Permit/Seal

Client/Project Logo

Client/Project
CITY OAF ANN ARBOR

HIGH LEVEL TRUNK LINE

Ann Arbor, MI

Title

TRAFFIC CONTROL PLAN

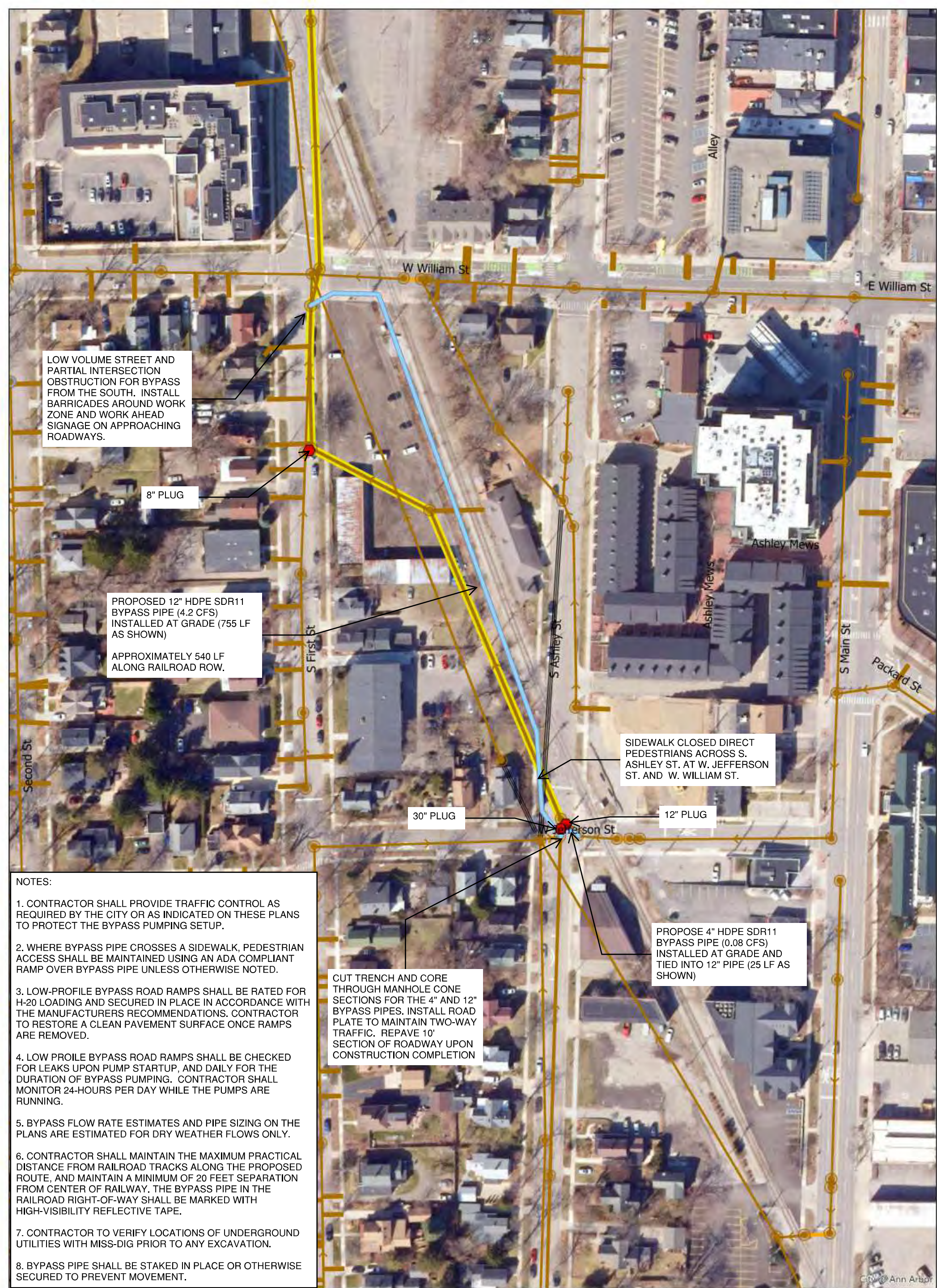
Project No.
2075157600

Revision Sheet
0 5 of 5

Scale
0 20' 40'

Drawing No.
EX-01

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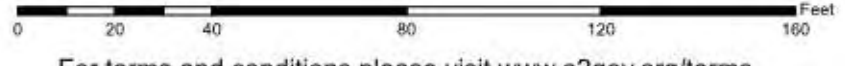


Jefferson to William Bypass Overview

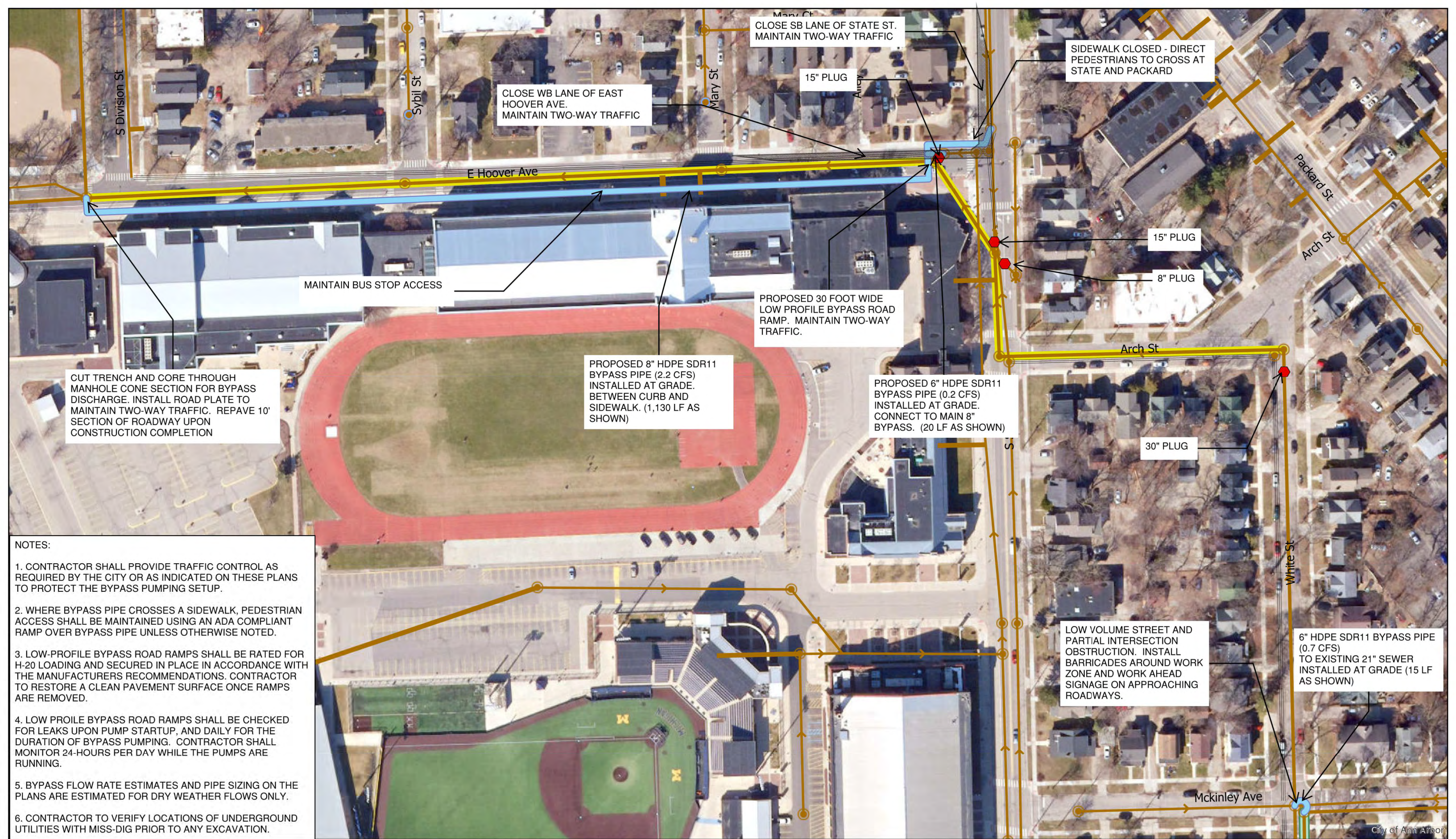


	Proposed Lining		Existing Sewer Diversion		Trunkline
	Proposed Bypass Pipe		Manhole		Siphon
	Proposed Plug		Manhole, Flush Tank		Collector
					Collector/Trunk Abandoned

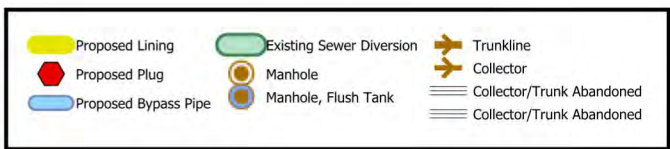
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1.00 (Manhole Depth)



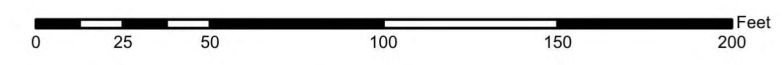
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State to Division



71-XXXXX (Manhole ID)
1.00 (Manhole Depth)



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City of Ann Arbor

PARTIAL INTERSECTION OBSTRUCTION. INSTALL BARRICADES AROUND WORK ZONE AND WORK AHEAD SIGNAGE ON APPROACHING ROADWAYS. SIDEWALK CLOSED. DIRECT PEDESTRIANS TO CROSS FIRST ST NORTH OF MILLER AVE.

PROPOSED 18" HDPE SDR11 BYPASS PIPE (9.3 CFS) (35 LF AS SHOWN)

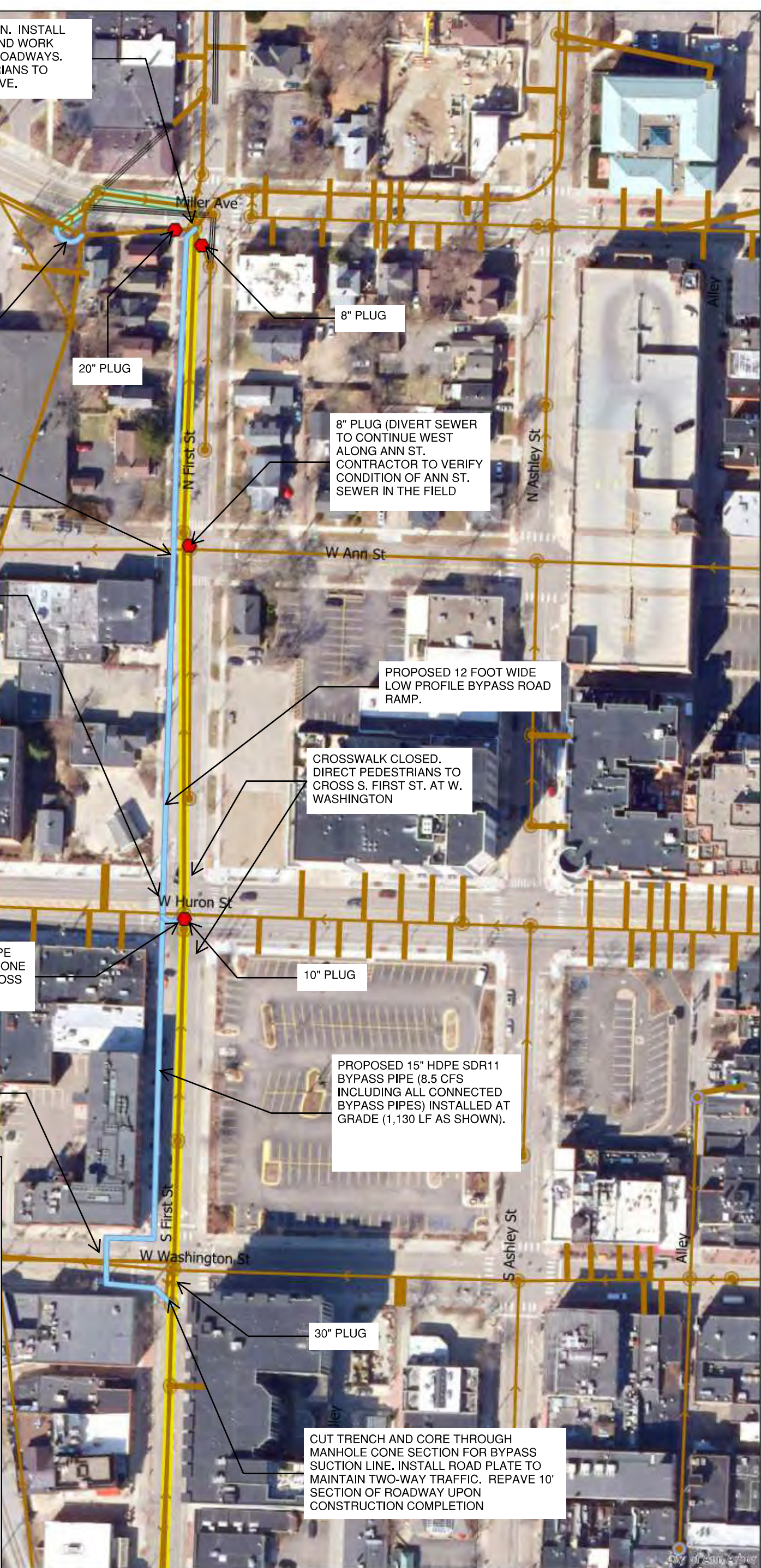
PROPOSED 30 FOOT WIDE LOW PROFILE BYPASS ROAD RAMP. MAINTAIN TWO-WAY TRAFFIC.

CUT TRENCH FOR BYPASS LINE. INSTALL ROAD PLATE TO MAINTAIN TWO-WAY TRAFFIC. REPAVE 10' SECTION OF ROADWAY UPON CONSTRUCTION COMPLETION

PROPOSED 6" HDPE SDR11 BYPASS PIPE (1.1 CFS) CORE THROUGH MANHOLE CONE CONNECT TO MAIN 15" BYPASS TO CROSS HURON ST. (25 LF AS SHOWN)

CUT TRENCH FOR BYPASS LINE. INSTALL ROAD PLATE TO MAINTAIN TWO-WAY TRAFFIC. REPAVE 10' SECTION OF ROADWAY UPON CONSTRUCTION COMPLETION

- NOTES:
1. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS REQUIRED BY THE CITY OR AS INDICATED ON THESE PLANS TO PROTECT THE BYPASS PUMPING SETUP.
 2. WHERE BYPASS PIPE CROSSES A SIDEWALK, PEDESTRIAN ACCESS SHALL BE MAINTAINED USING AN ADA COMPLIANT RAMP OVER BYPASS PIPE UNLESS OTHERWISE NOTED.
 3. LOW-PROFILE BYPASS ROAD RAMP SHALL BE RATED FOR H-20 LOADING AND SECURED IN PLACE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. CONTRACTOR TO RESTORE A CLEAN PAVEMENT SURFACE ONCE RAMPS ARE REMOVED.
 4. LOW PROILE BYPASS ROAD RAMP SHALL BE CHECKED FOR LEAKS UPON PUMP STARTUP, AND DAILY FOR THE DURATION OF BYPASS PUMPING. CONTRACTOR SHALL MONITOR 24-HOURS PER DAY WHILE THE PUMPS ARE RUNNING.
 5. BYPASS FLOW RATE ESTIMATES AND PIPE SIZING ON THE PLANS ARE ESTIMATED FOR DRY WEATHER FLOWS ONLY.
 6. CONTRACTOR TO VERIFY LOCATIONS OF UNDERGROUND UTILITIES WITH MISS-DIG PRIOR TO ANY EXCAVATION.
 7. BYPASS PIPE SHALL BE STAKED IN PLACE OR OTHERWISE SECURED TO PREVENT MOVEMENT.



Washington to Miller Bypass Overview

	Proposed Lining		Existing Sewer Diversion		Trunkline
	Proposed Plug		Manhole		Siphon
	Proposed Bypass Pipe		Manhole, Flush Tank		Collector
					Collector/Trunk Abandoned

71-XXXXX (Manhole ID)
1.00 (Manhole Depth)

0 20 40 80 120 160 Feet

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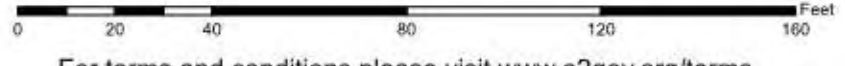


William to Washington Bypass Overview

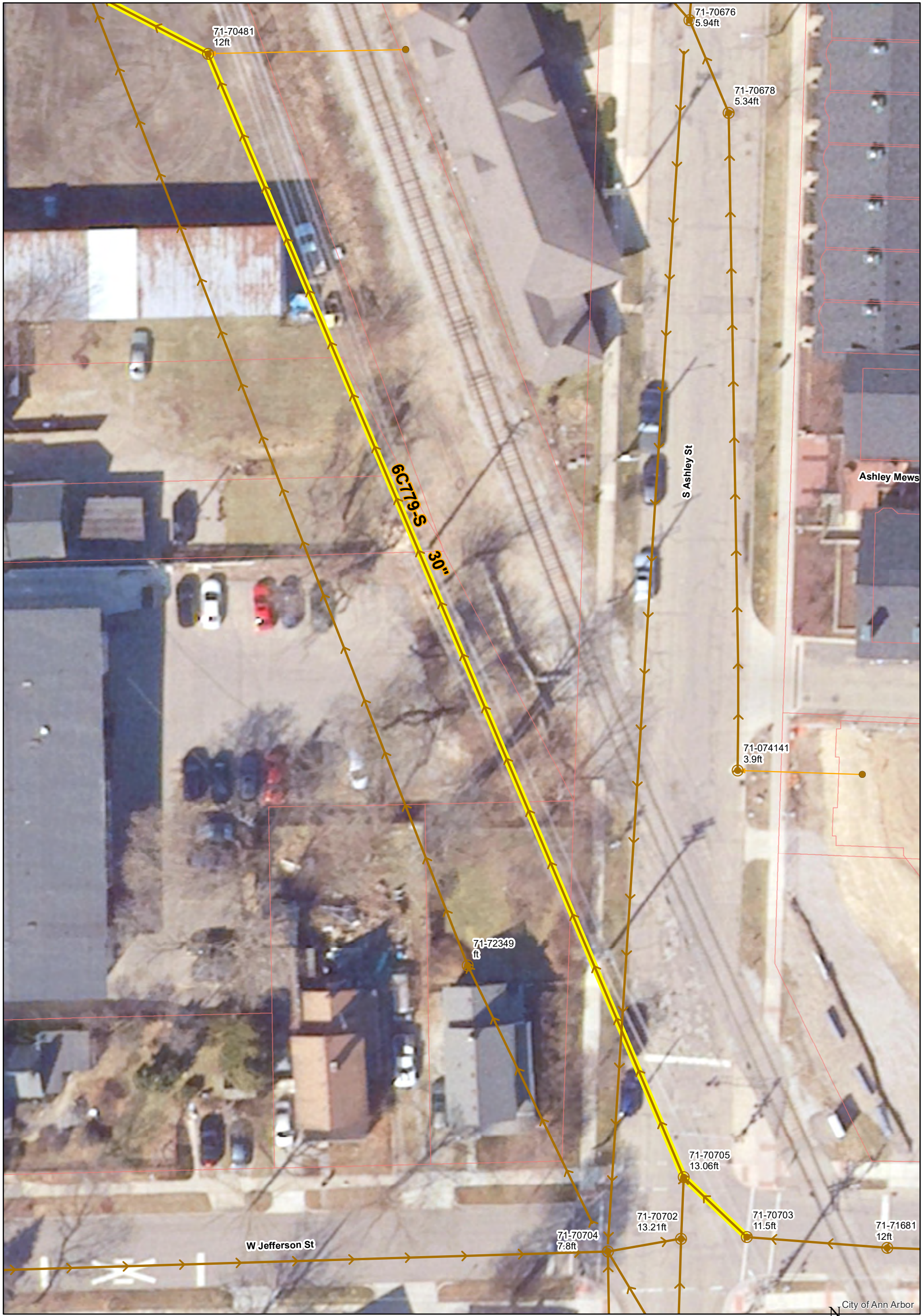


	Proposed Lining		Existing Sewer Diversion		Trunkline
	Proposed Bypass Pipe		Manhole		Siphon
	Proposed Plug		Manhole, Flush Tank		Collector
					Collector/Trunk Abandoned

71-XXXXX (Manhole ID)
1.00 (Manhole Depth)



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	Manhole		Sanitary Lead
	Sanitary Main		Proposed Lining

71-XXXXX (Manhole ID)

X.XX ft (Manhole Depth)

Crosslot from S. Ashley St to S. First St

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City of Ann Arbor



	Manhole		Sanitary Lead
	Sanitary Main		Proposed Lining

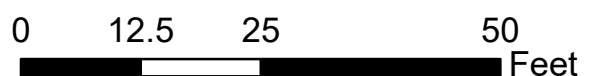
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X.XX ft (Manhole Depth)

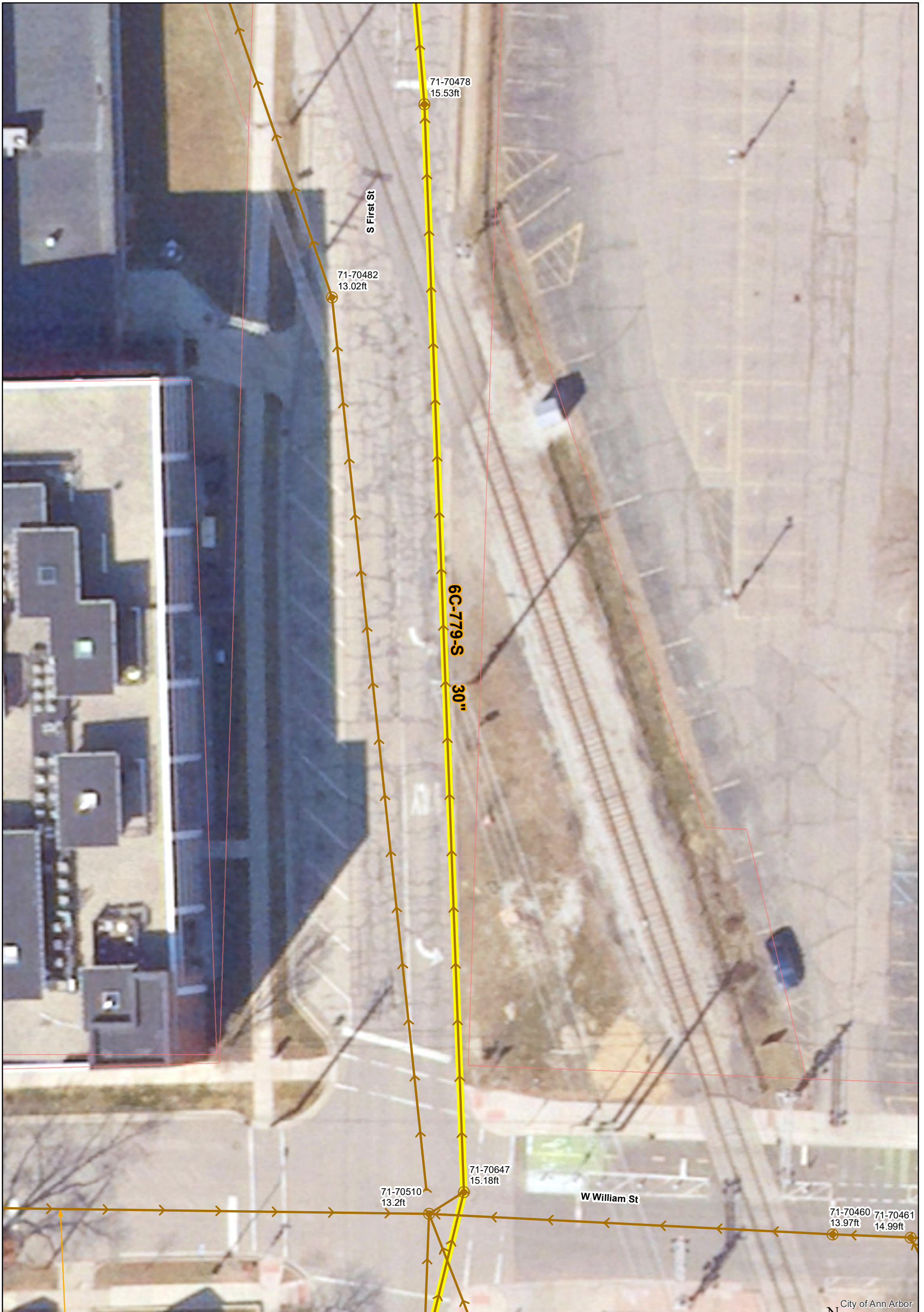
Crosslot from S. Ashley St to S. First St



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City of Ann Arbor



City of Ann Arbor



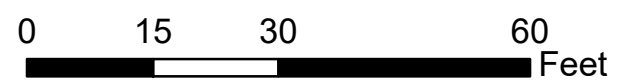
S. First St

	Manhole		Sanitary Lead
	Sanitary Main		Proposed Lining

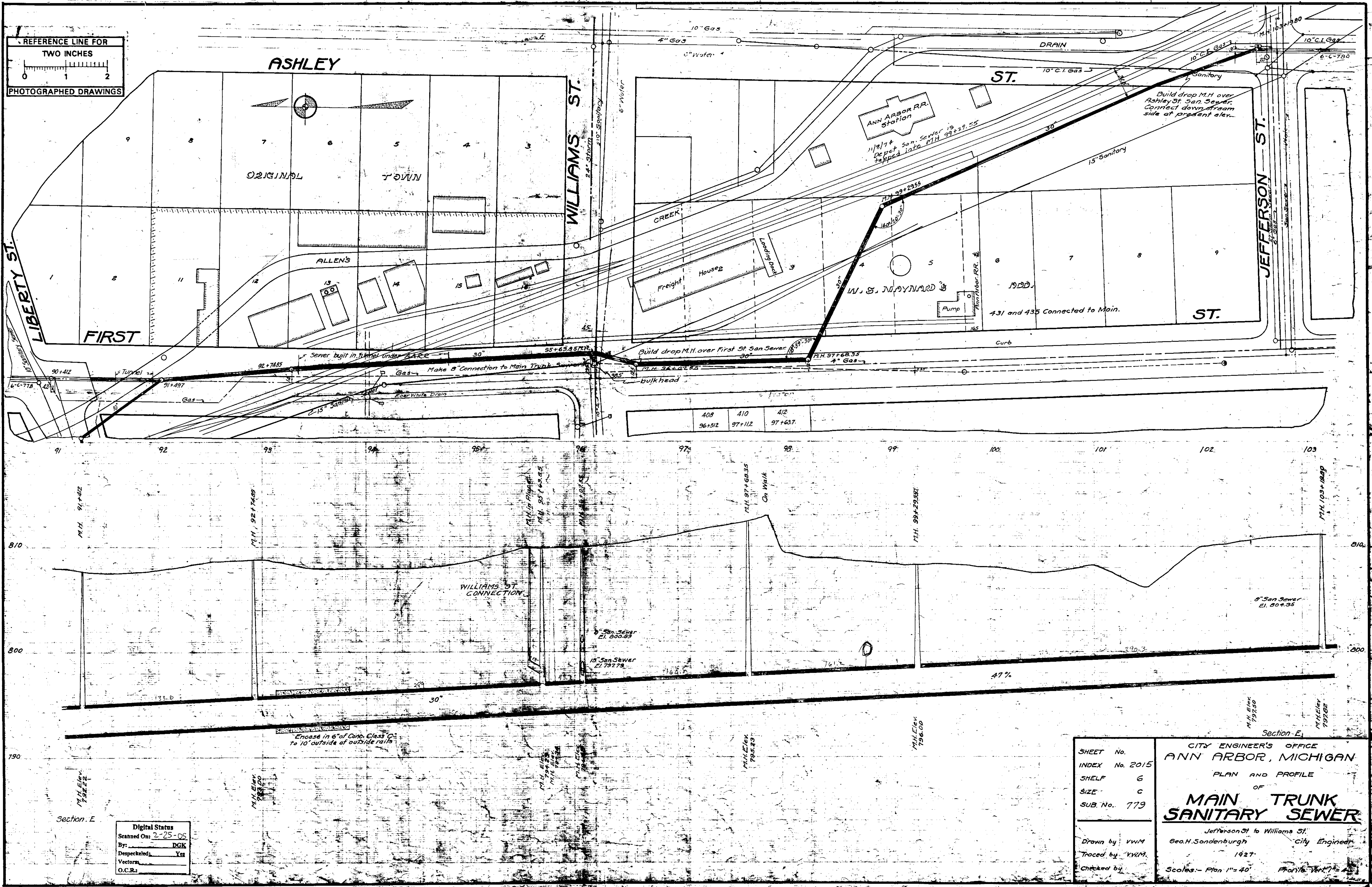
71-XXXXX (Manhole ID)

X.XX ft (Manhole Depth)

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REFERENCE LINE FOR
TWO INCHES
PHOTOGRAPHED DRAWINGS

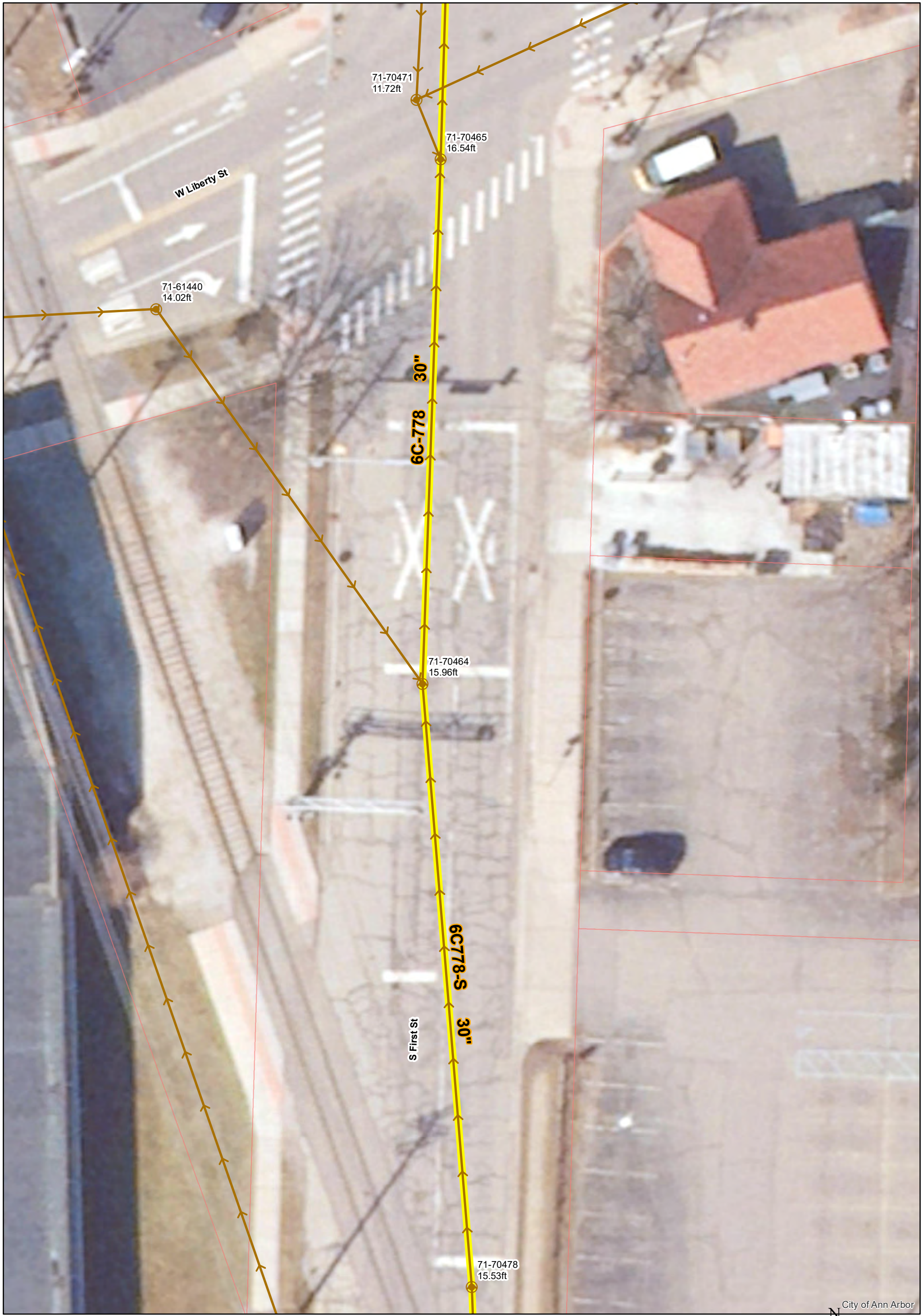


408	410	412
96+512	97+112	97+637

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SIZE	779
SUB. No.	

CITY ENGINEER'S OFFICE
ANN ARBOR, MICHIGAN
PLAN AND PROFILE
OF
**MAIN TRUNK
SANITARY SEWER**
Jefferson St to Williams St
Geo. H. Sondenburgh City Engineer
1927
Scales - Plan 1" = 40' Profile 1" = 10'



City of Ann Arbor



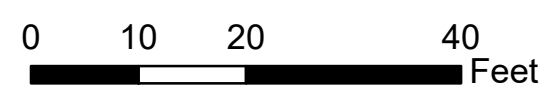
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	Sanitary Main		Proposed Lining

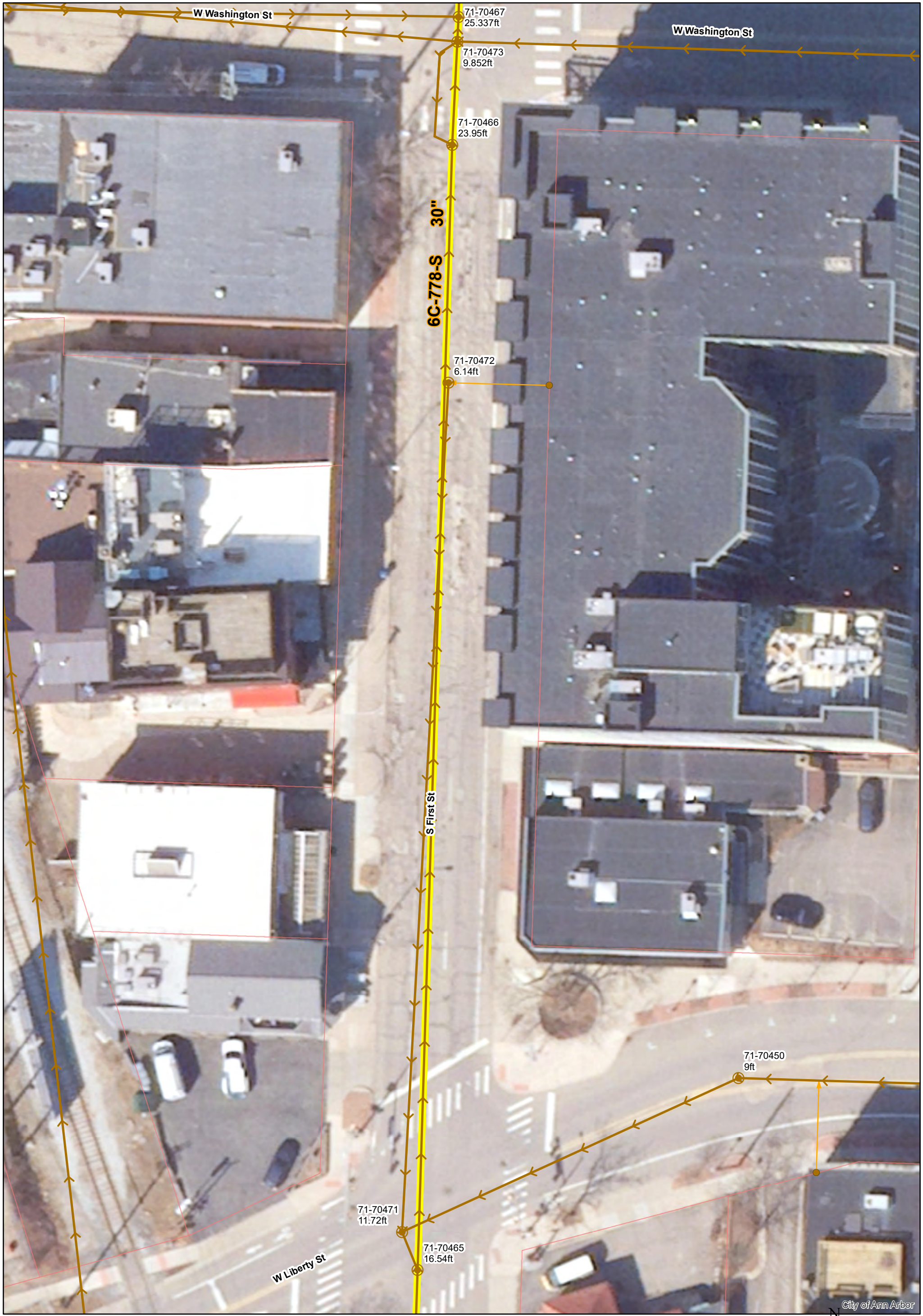
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X.XX ft (Manhole Depth)

S. First St & W. Liberty St

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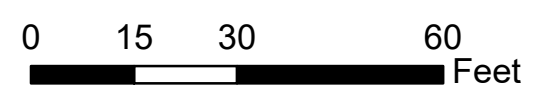
City of Ann Arbor

	Manhole		Sanitary Lead
	Sanitary Main		Proposed Lining

71-XXXXX (Manhole ID)

X.XX ft (Manhole Depth)

S. First St between W. Liberty St & W. Washington St



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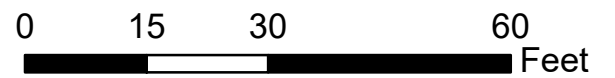


	Manhole		Sanitary Lead
	Sanitary Main		Proposed Lining

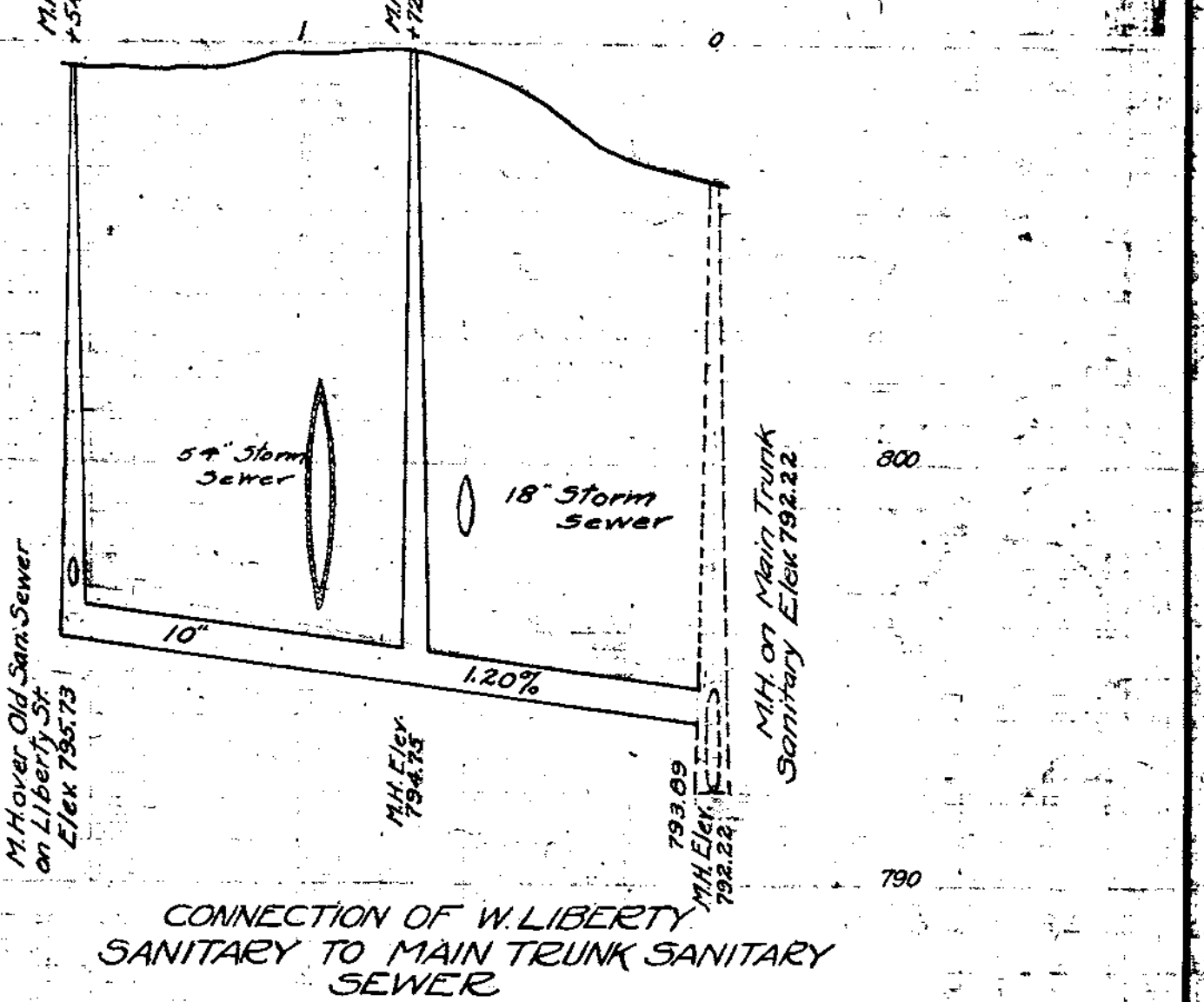
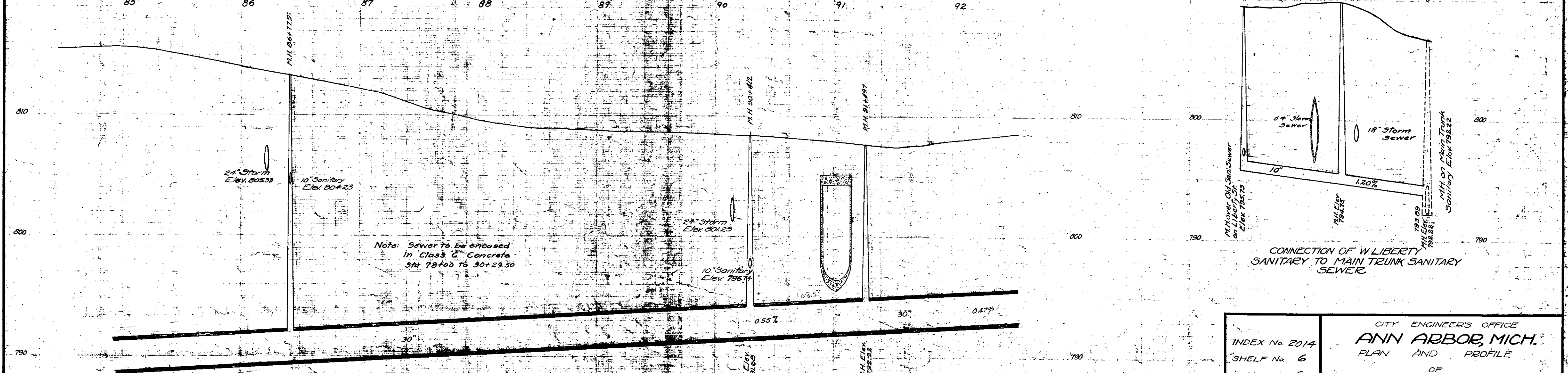
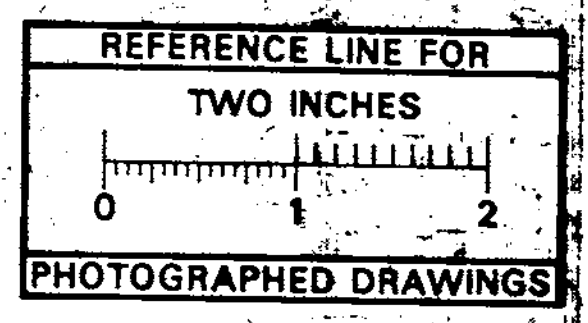
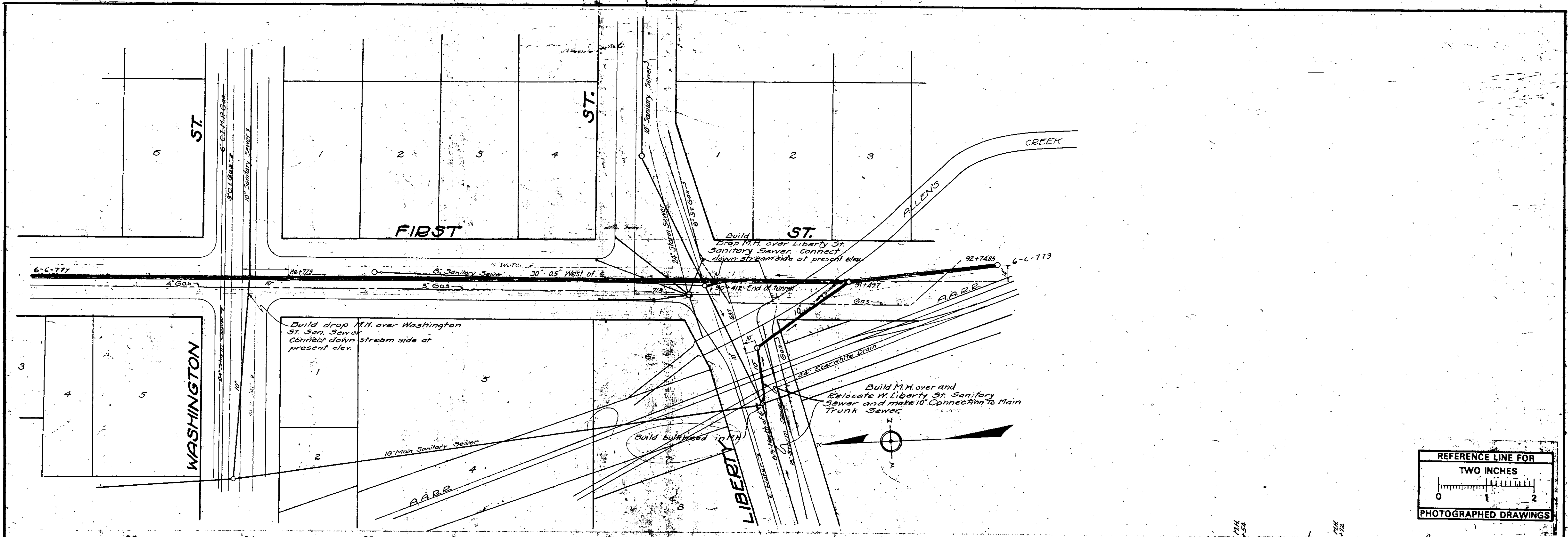
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X.XX ft (Manhole Depth)

S. First St between W. Huron St & W. Washington St



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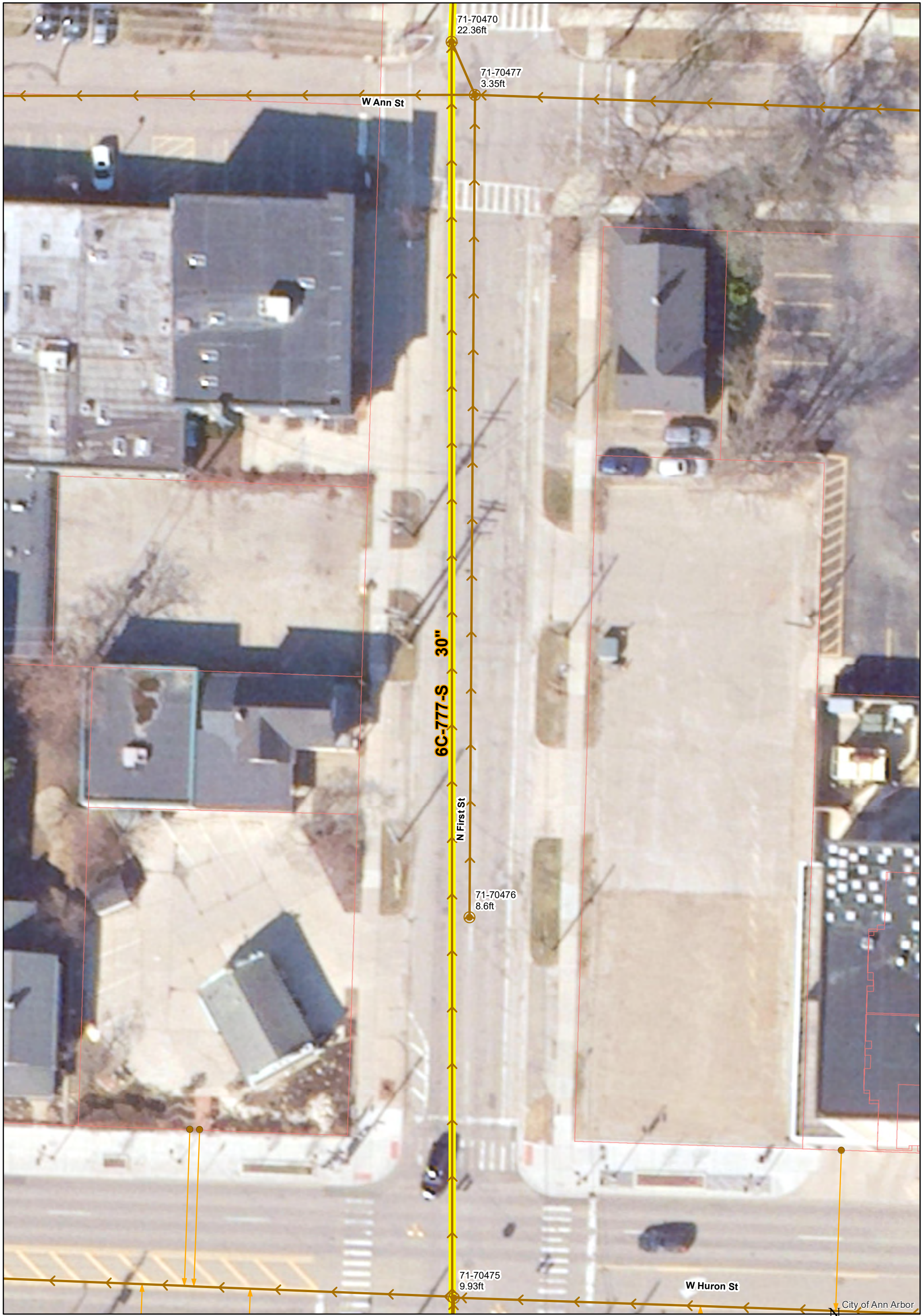


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Section D

Section D Section E

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

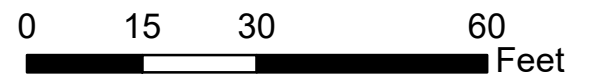


	Manhole		Sanitary Lead
	Sanitary Main		Proposed Lining

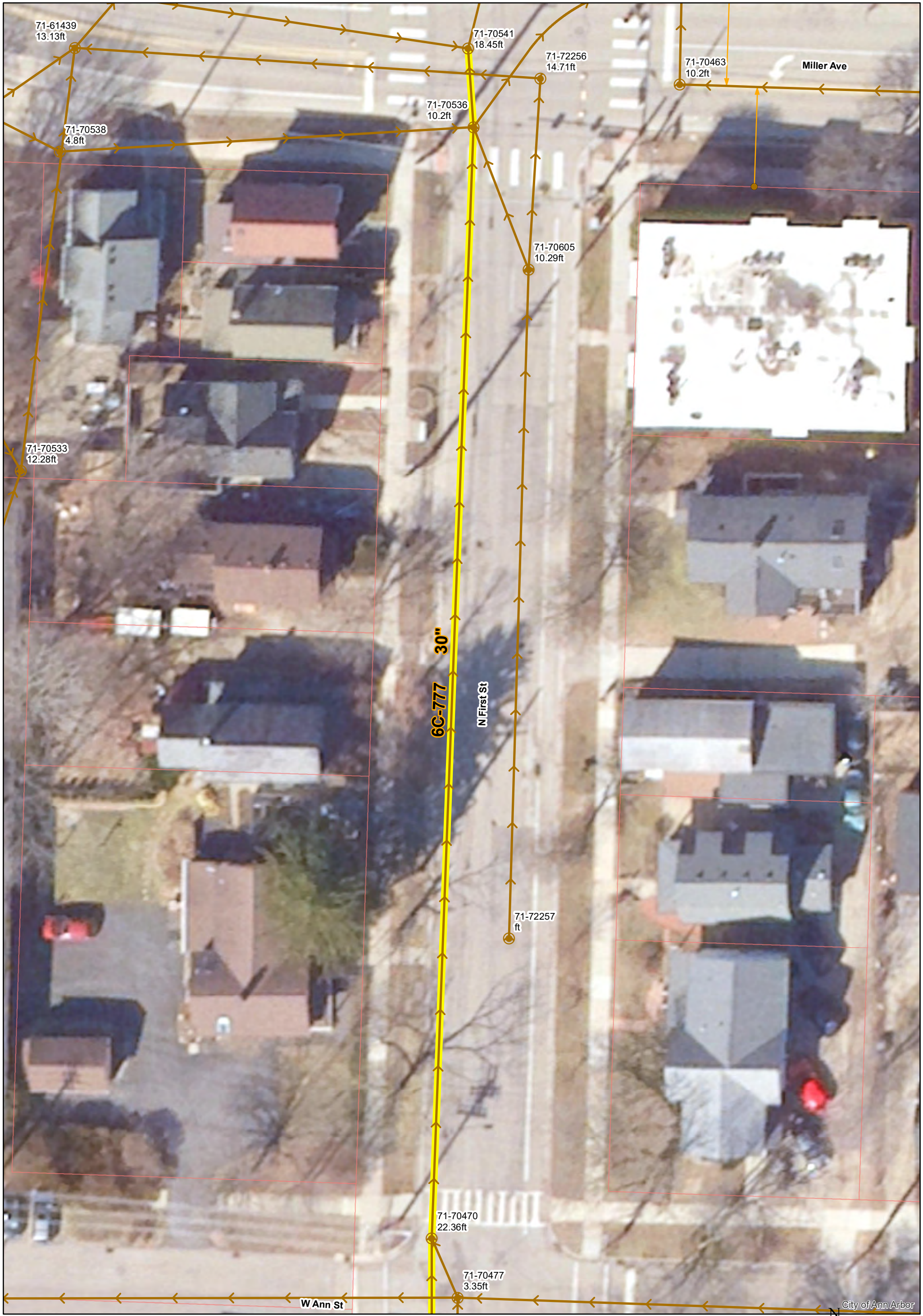
71-XXXXX (Manhole ID)

X.XX ft (Manhole Depth)

S. First St between W. Huron St & W. Ann St



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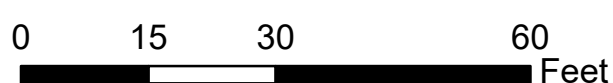


City of Ann Arbor

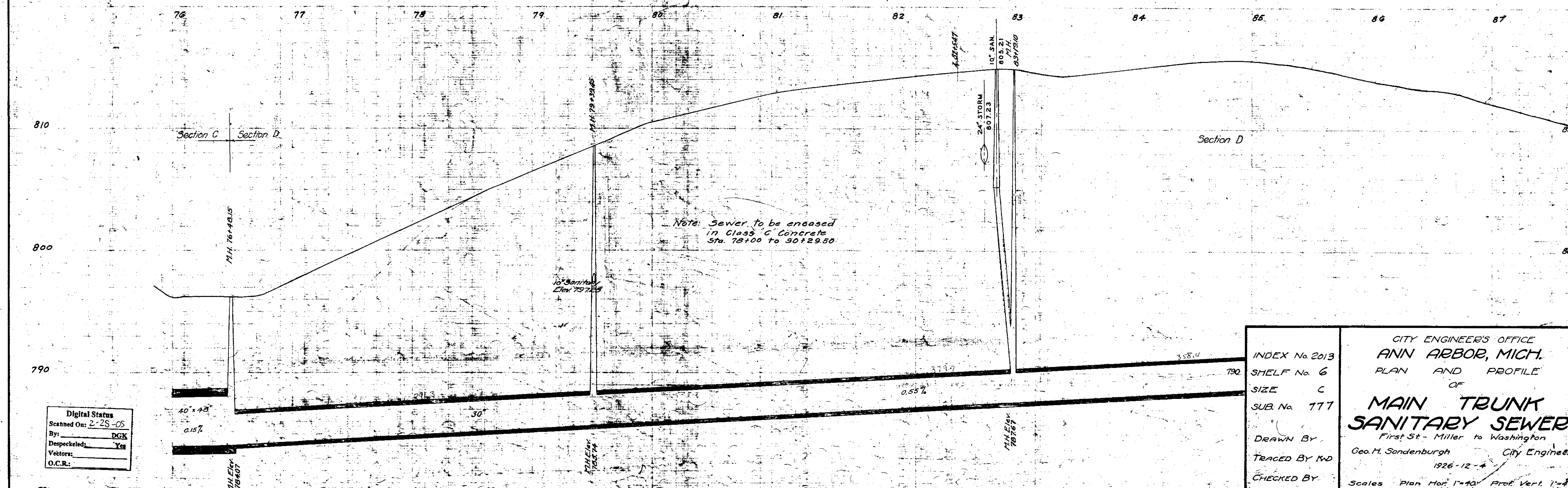
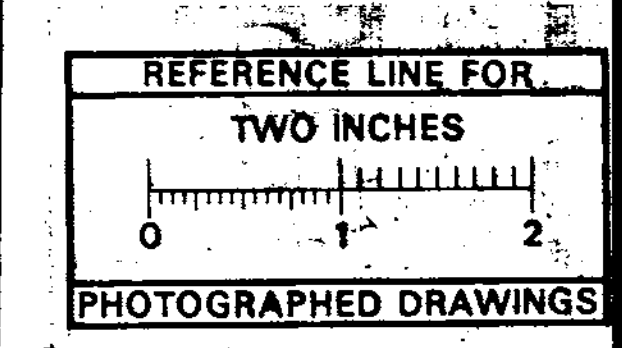
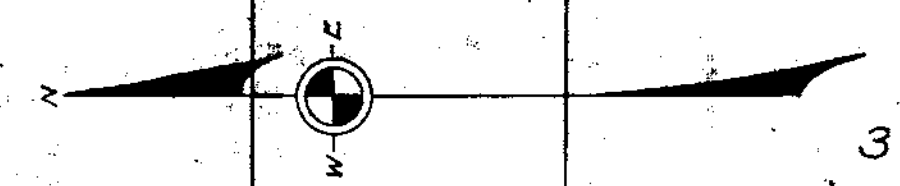
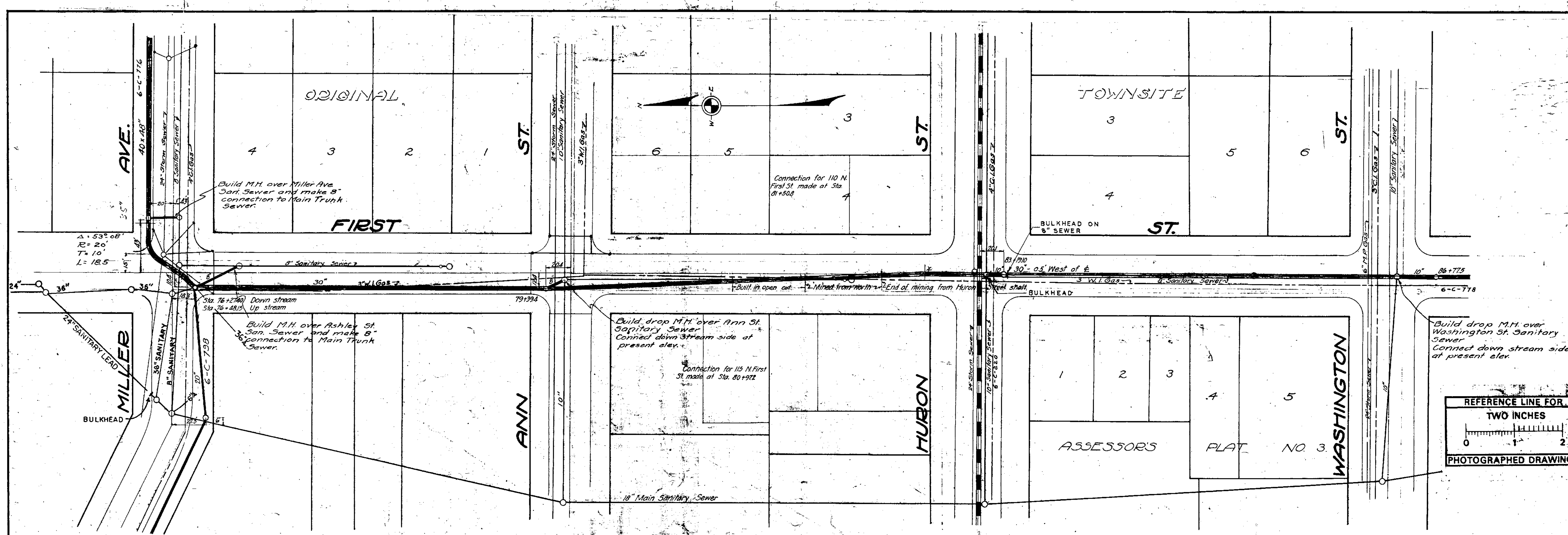
	Manhole		Sanitary Lead
	Sanitary Main		Proposed Lining

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

S. First St between Miller Ave & W. Ann St



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Note: Sewer to be encased in Class C Concrete Sta. 78+00 to 90+29.50

Digital Status
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By: DSK
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INDEX No 2013
SHELF No 6
SIZE C
SUB. No 177
DRAWN BY
TRACED BY KD
CHECKED BY
CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
MAIN TRUNK
SANITARY SEWER
First St - Miller to Washington
Geo. H. Sondenburgh City Engineer
1926-12-4
Scales Plan Hor. 1"=40' Prof. Vert. 1"=4'

REVISIONS-02/09/04-LES



City of Ann Arbor

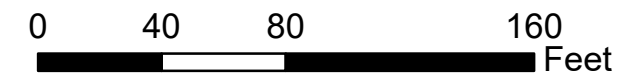
	Manhole		Sanitary Lead
	Sanitary Main		Proposed Lining

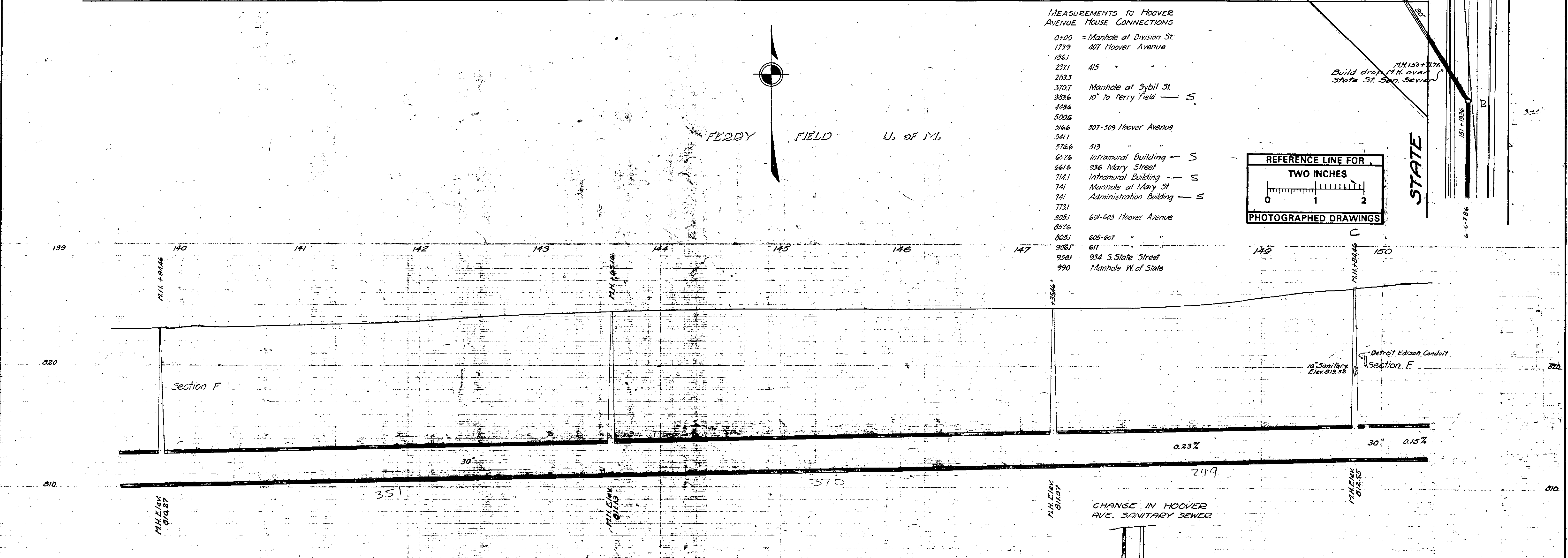
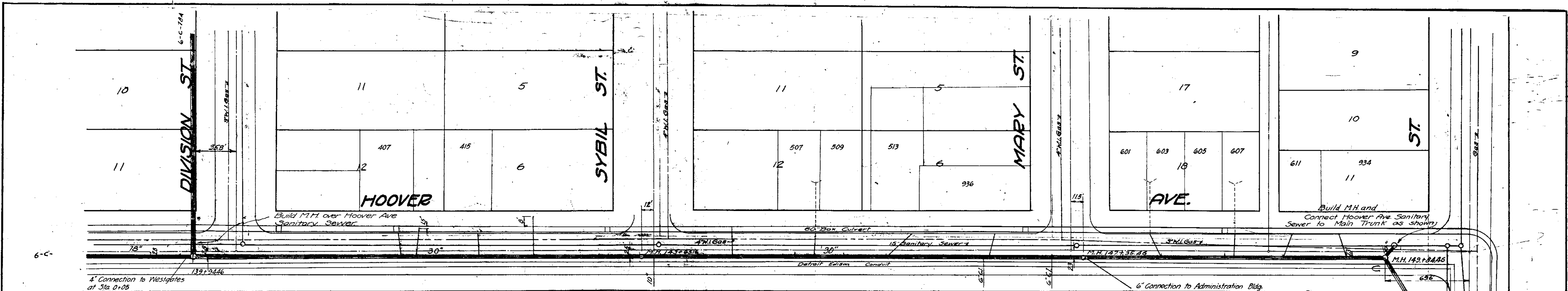
E. Hoover Ave



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

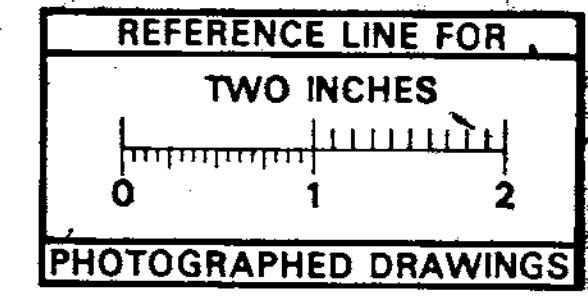
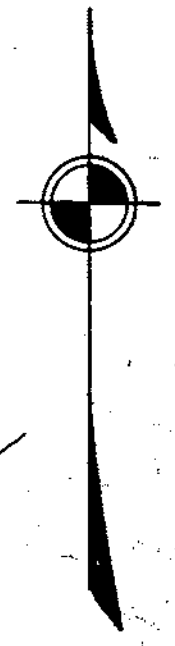
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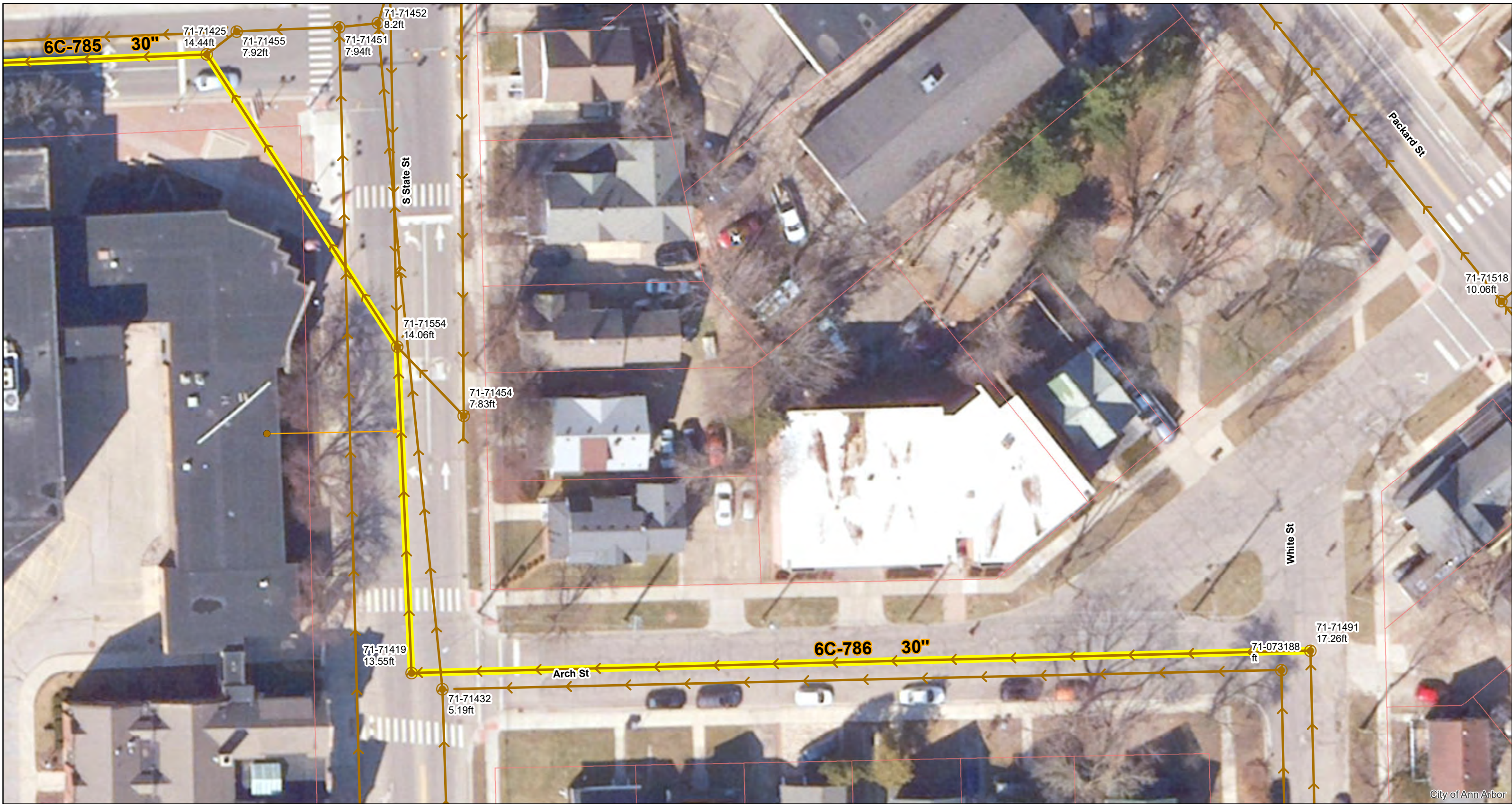
MEASUREMENTS TO HOOVER AVENUE HOUSE CONNECTIONS

0+00	= Manhole at Division St.
1739	407 Hoover Avenue
1861	
2371	415 "
2833	
3707	Manhole at Sybil St.
3836	10' to Ferry Field — S
4486	
5006	
5166	507-509 Hoover Avenue
5411	
5766	513
6576	Intramural Building — S
6616	936 Mary Street
7141	Intramural Building — S
741	Manhole at Mary St
741	Administration Building — S
7731	
8051	601-603 Hoover Avenue
8576	
8631	605-607 "
9061	611
9581	934 S. State Street
990	Manhole W. of State



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SHEET No. INDEX No. 2021 SHELF No. 6 SIZE C SUB. No. 785	CITY ENGINEER'S OFFICE	
	ANN ARBOR, MICH.	
	PLAN AND PROFILE	
	MAIN TRUNK SANITARY SEWER Hoover Ave. Division to State	
DRAWN BY TRACED BY CHECKED BY	Geo. H. Sandenburgh City Engineer 1927-3-27	
Scales: Plan Hor. 1"=40' Prof. Vert. 1"=4'		



City of Ann Arbor

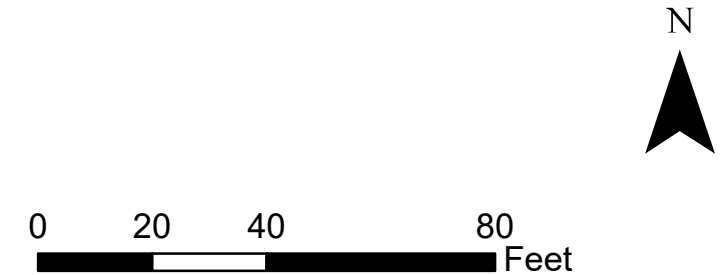
S. State St & Arch St

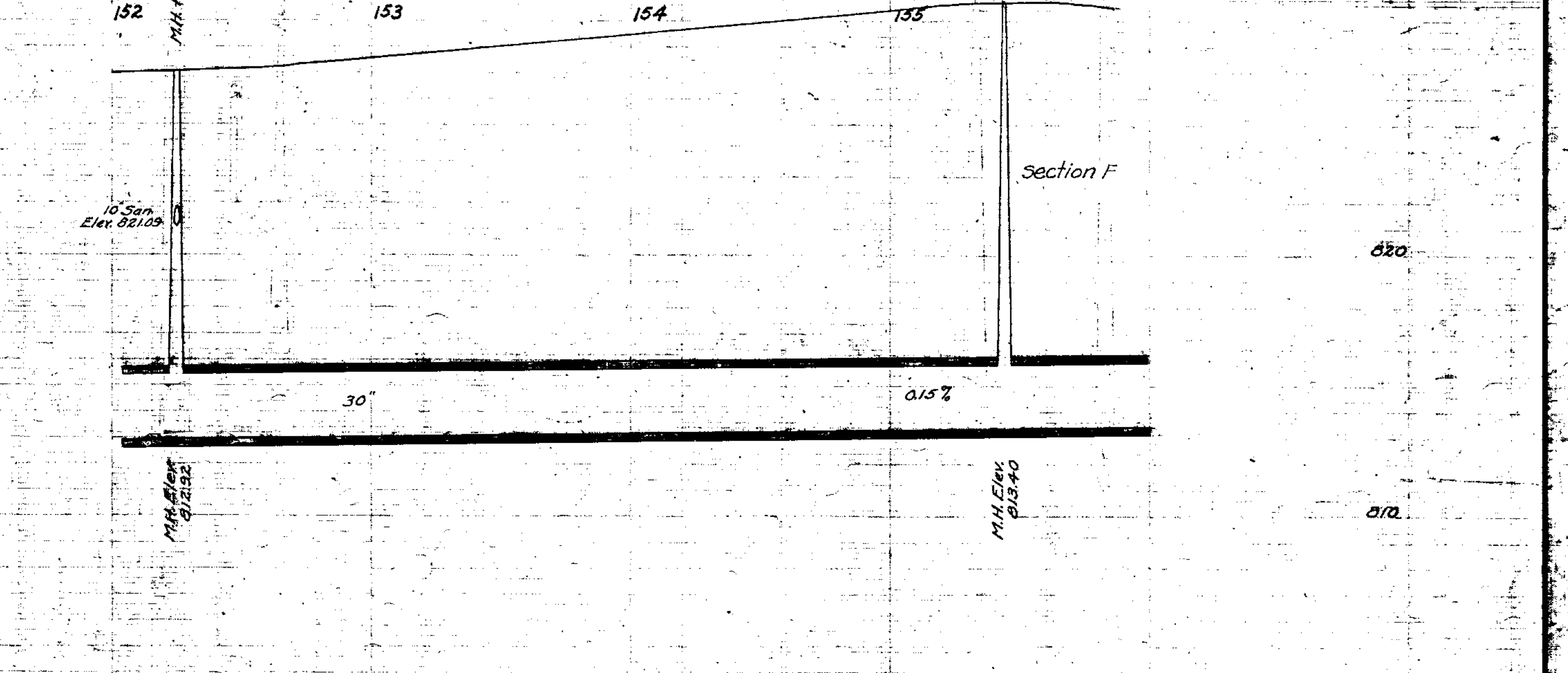
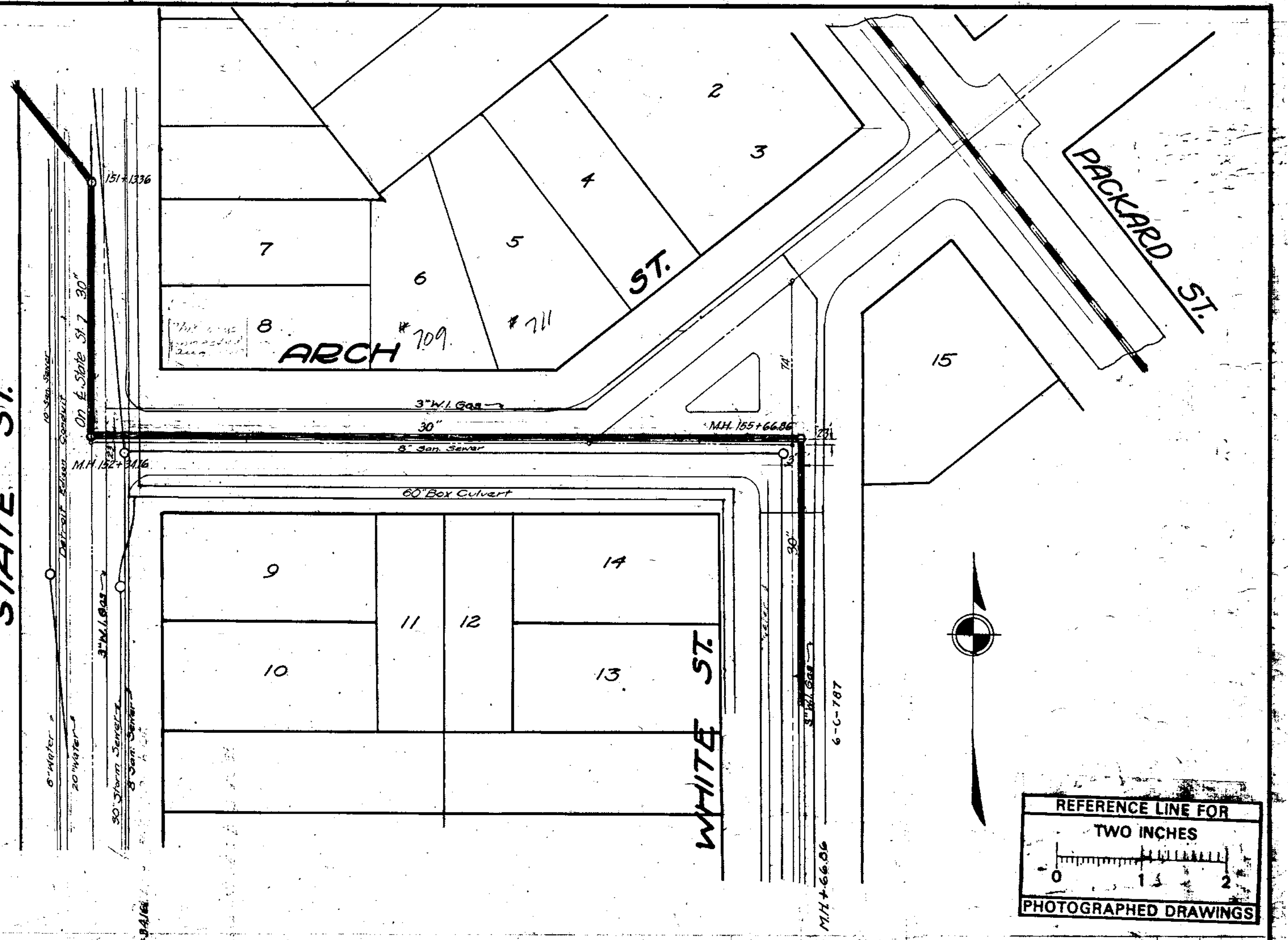
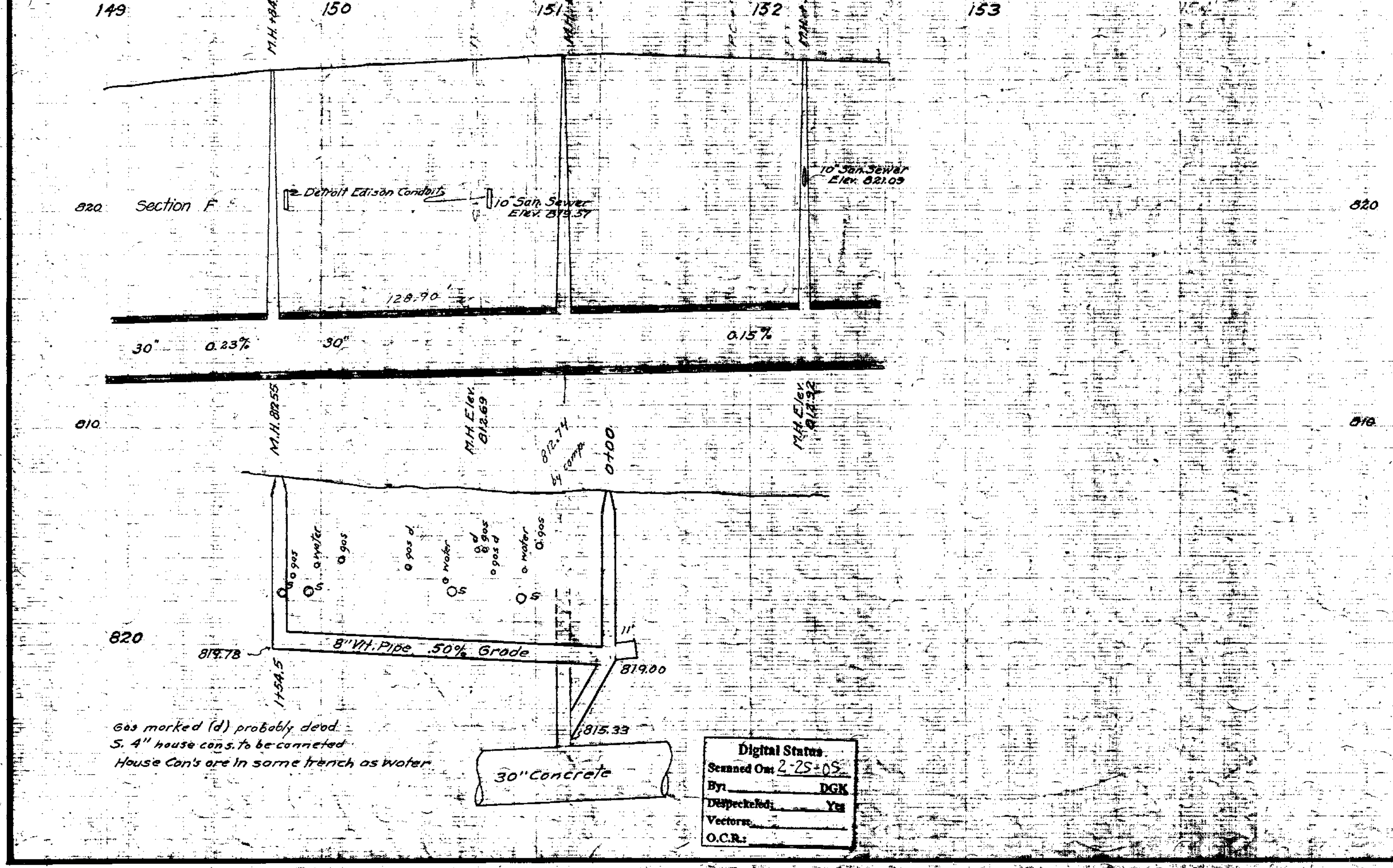
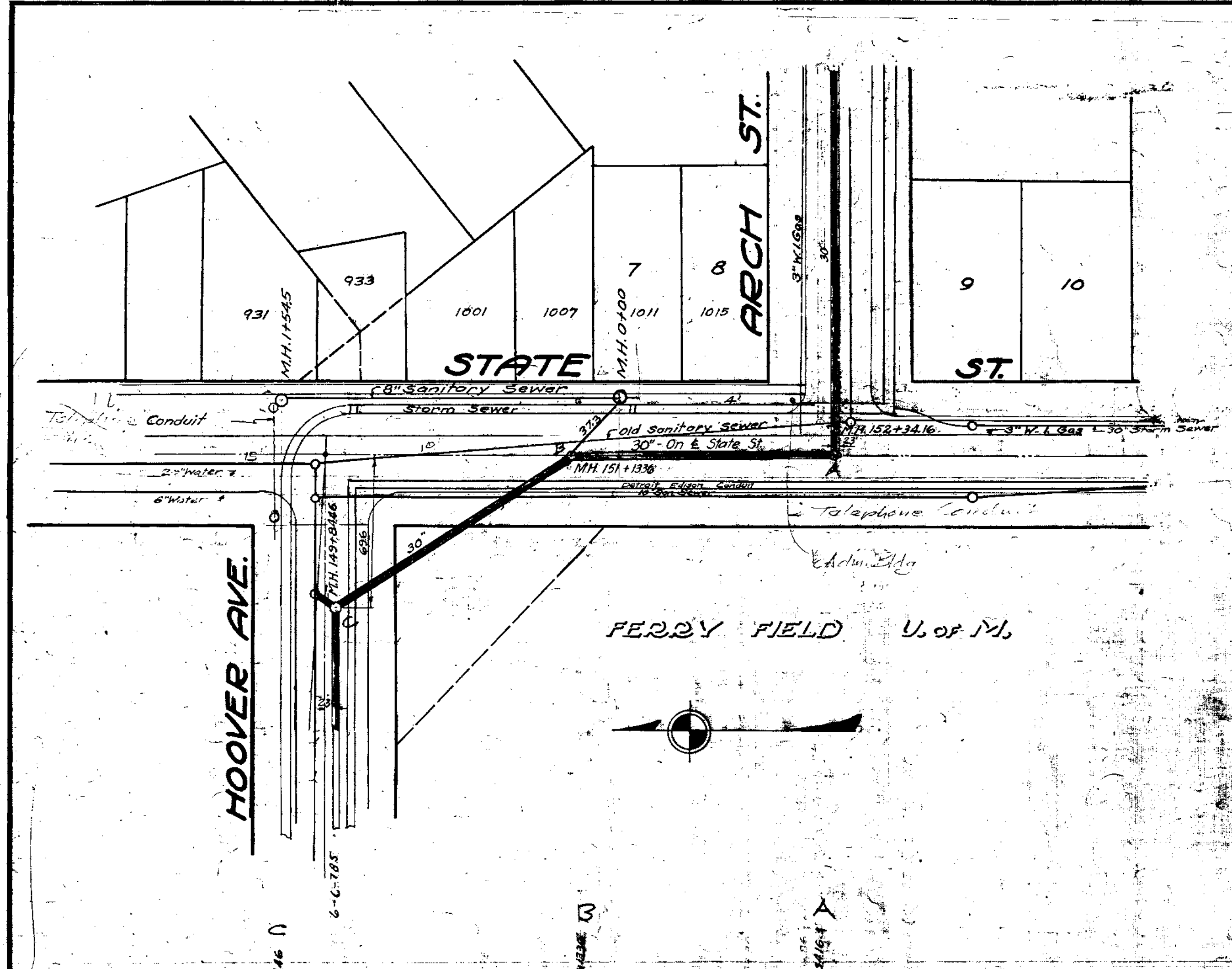
- Manhole
- Sanitary Lead
- Sanitary Main
- Proposed Lining

71-XXXXX (Manhole ID)

X.XX ft (Manhole Depth)

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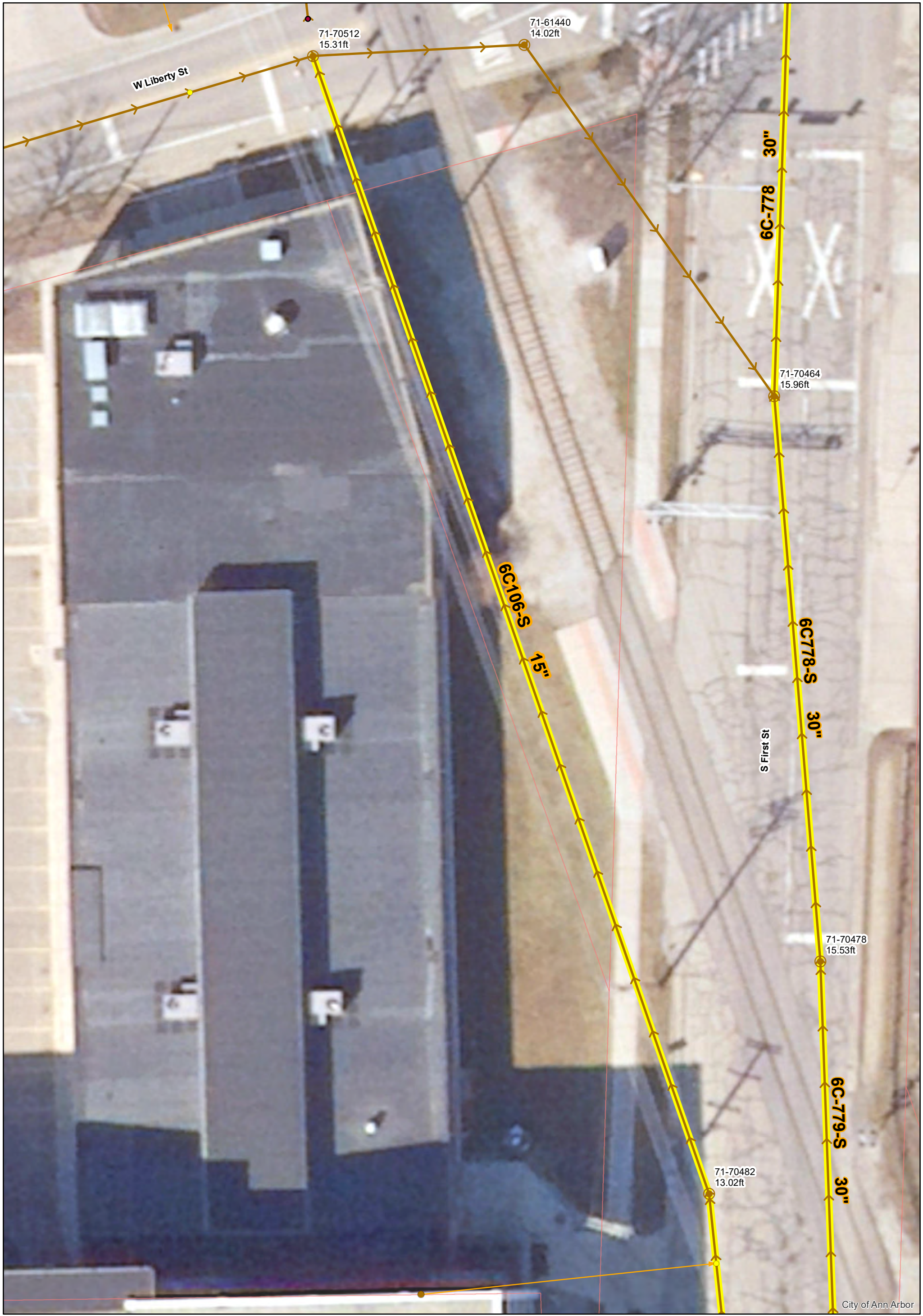
REFERENCE LINE FOR
TWO INCHES
0 1 2
PHOTOGRAPHED DRAWINGS

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
**MAIN TRUNK
SANITARY SEWER**
State-Hoover to Arch - Arch - State to White
Geo. H. Sandenburgh City Engineer
1926-10-6
Scales: Plan Hor. 1"=40' Prof. Vert. 1"=4'

INDEX No. 2022
SHELF No. 6
SIZE C
SUB. No. 786

Drawn by
Traced by 16D
Checked by

Digital Status
Scanned On: 2-25-05
By: DGK
Dispatched: Yes
Vector: _____
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City of Ann Arbor



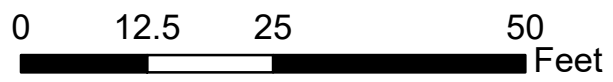
Xlot between W. Liberty St & S. First St

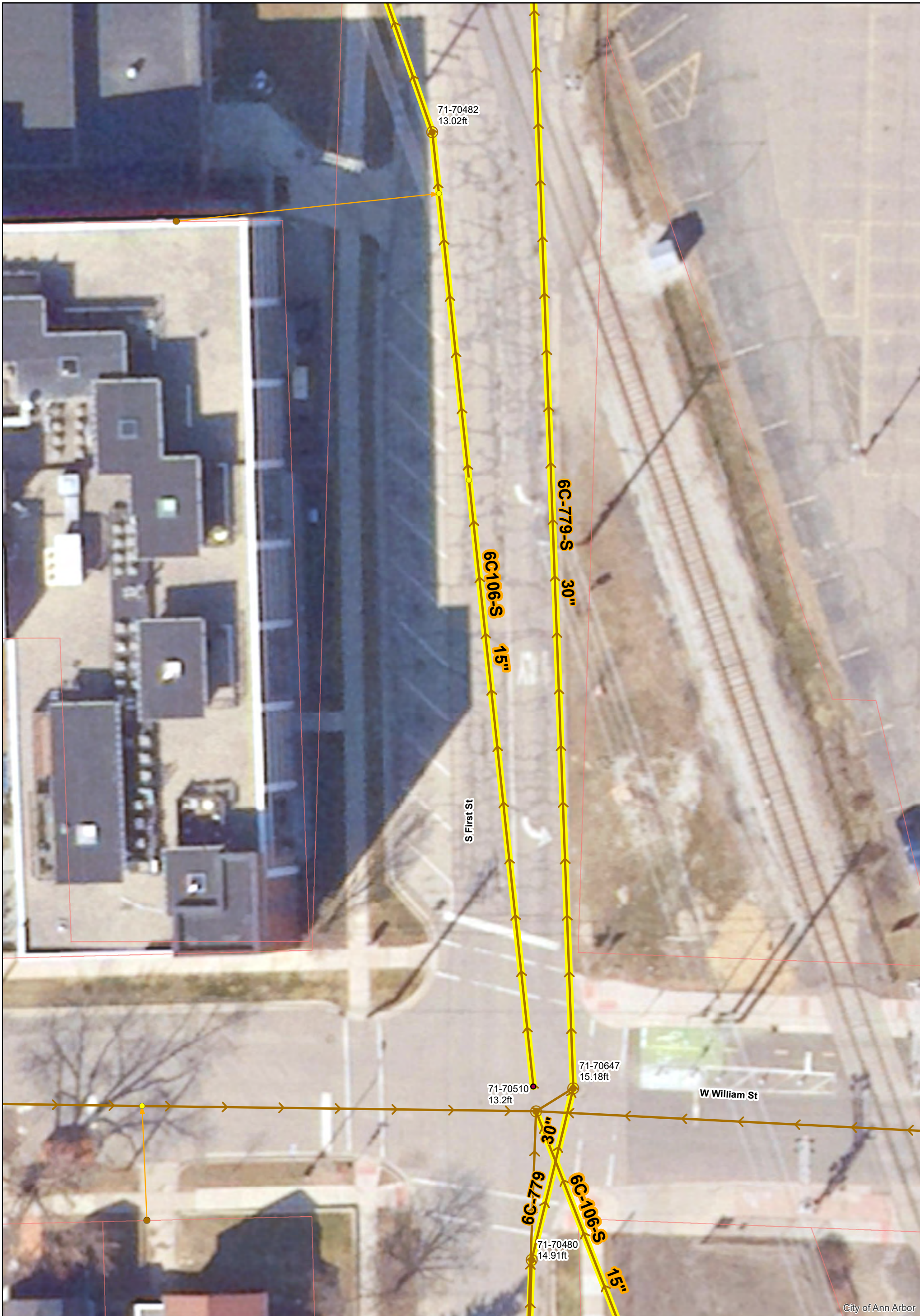
	Manhole		Sanitary Lead
	Sanitary Main		Proposed Lining

71-XXXXX (Manhole ID)

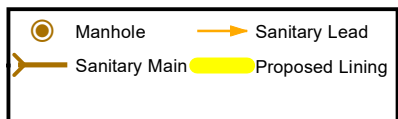
X.XX ft (Manhole Depth)

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City of Ann Arbor



71-XXXXX (Manhole ID)

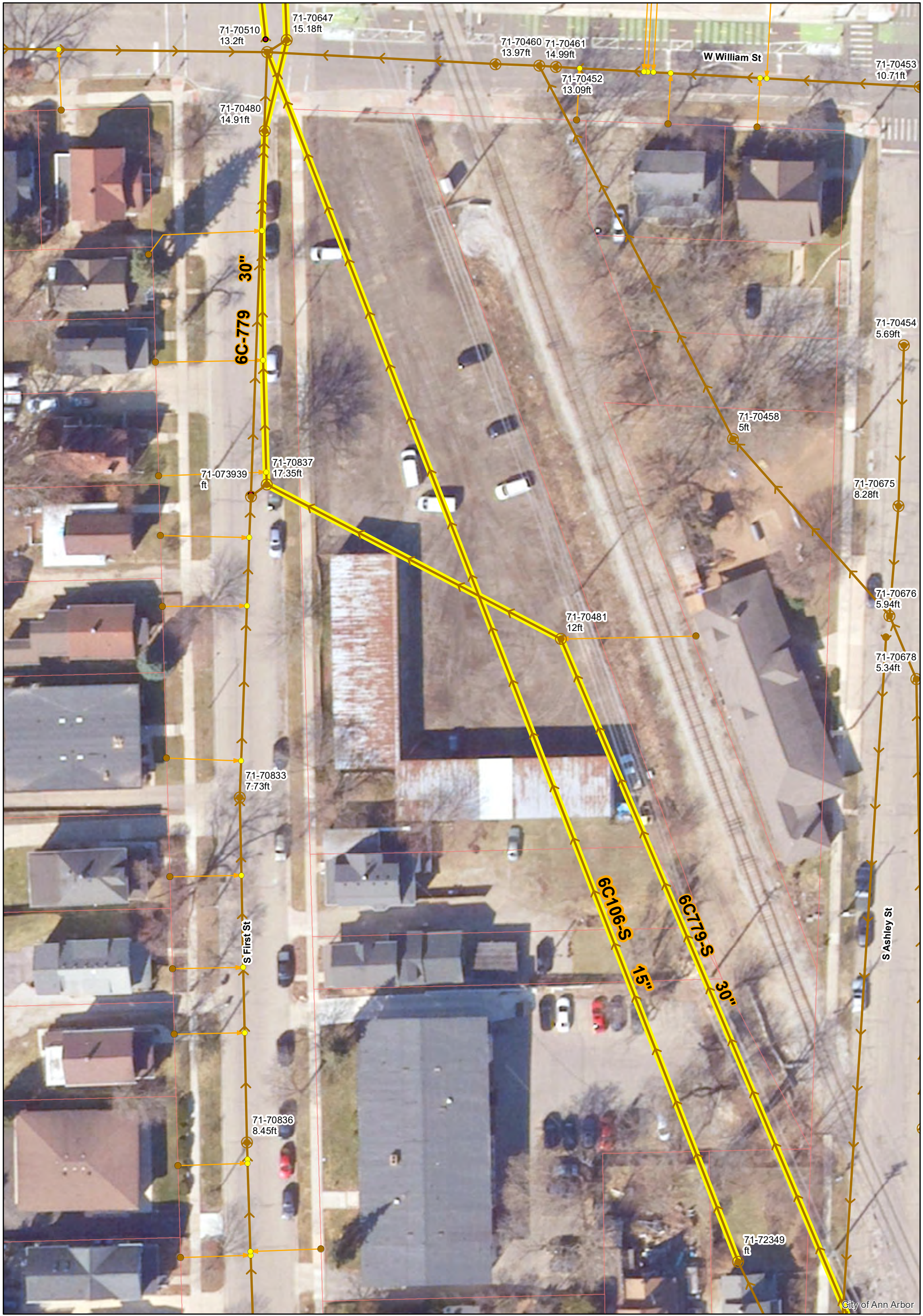
X.XX ft (Manhole Depth)

S. First St between W. Liberty St & W. William St



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N



Xlot between W. William St & W. Jefferson St

	Manhole		Sanitary Lead
	Sanitary Main		Proposed Lining

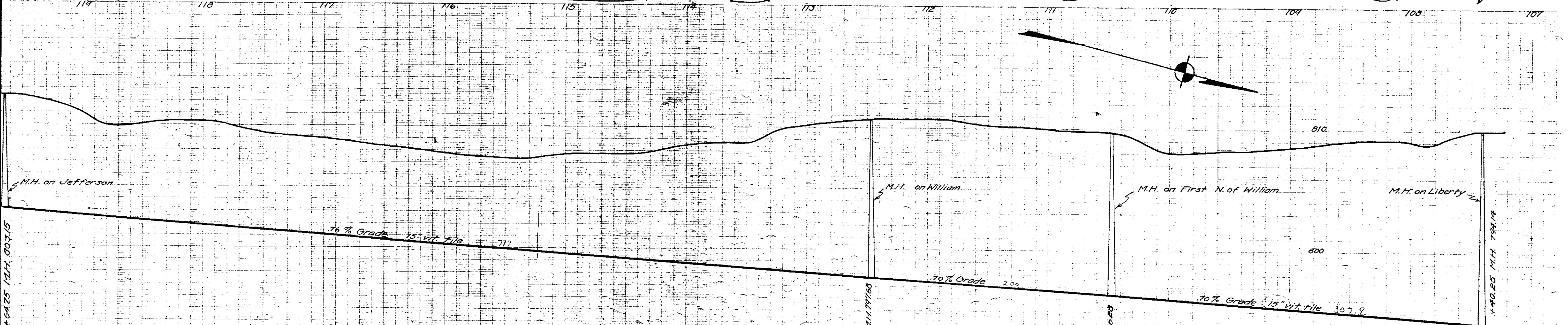
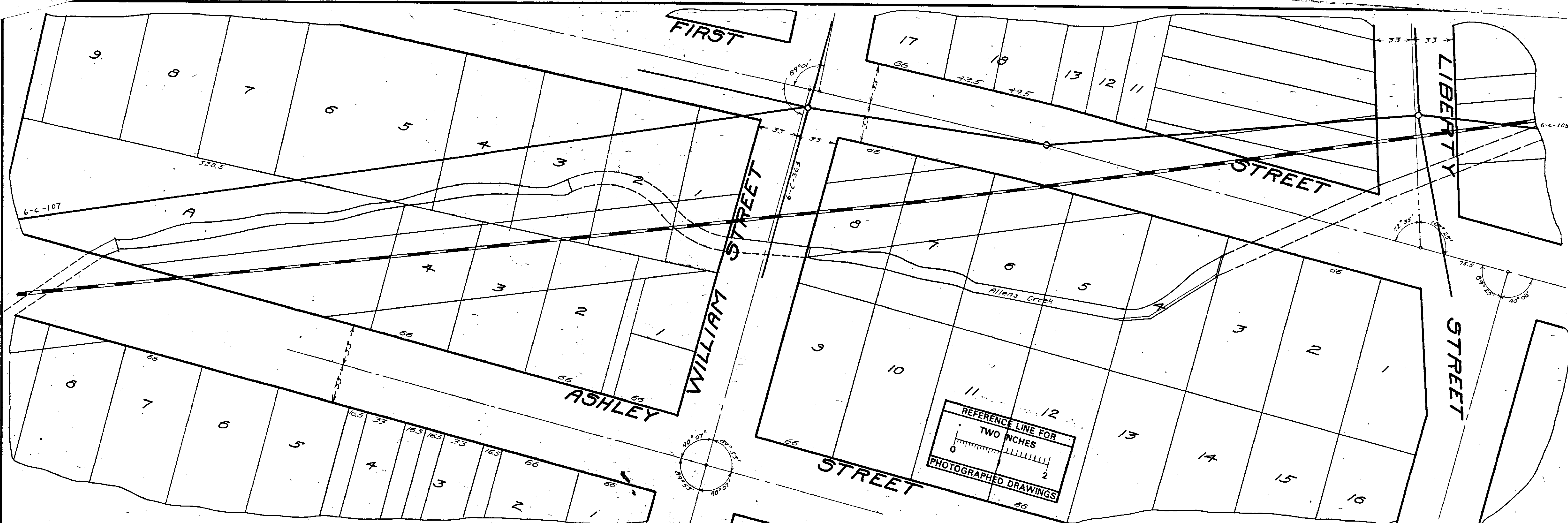
71-XXXXX (Manhole ID)

X.XX ft (Manhole Depth)

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City of Ann Arbor



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SHEET No 10
 INDEX No 718
 SHELF No 6
 SIZE C
 SUB No 106
 Drawn by
 Traced by
 Checked by

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



City of Ann Arbor

	Manhole		Sanitary Lead
	Sanitary Main		Proposed Lining

71-XXXXX (Manhole ID)

X.XX ft (Manhole Depth)

Xlot between W. Jefferson St & S. Ashley St

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	Manhole		Sanitary Lead
	Sanitary Main		Proposed Lining

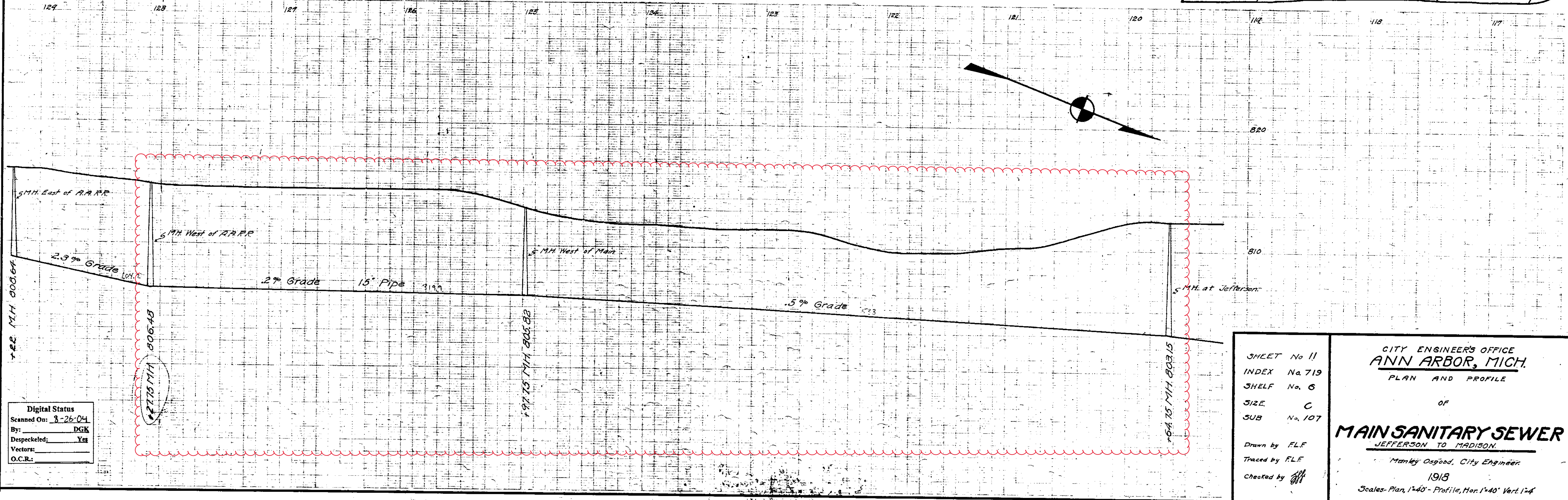
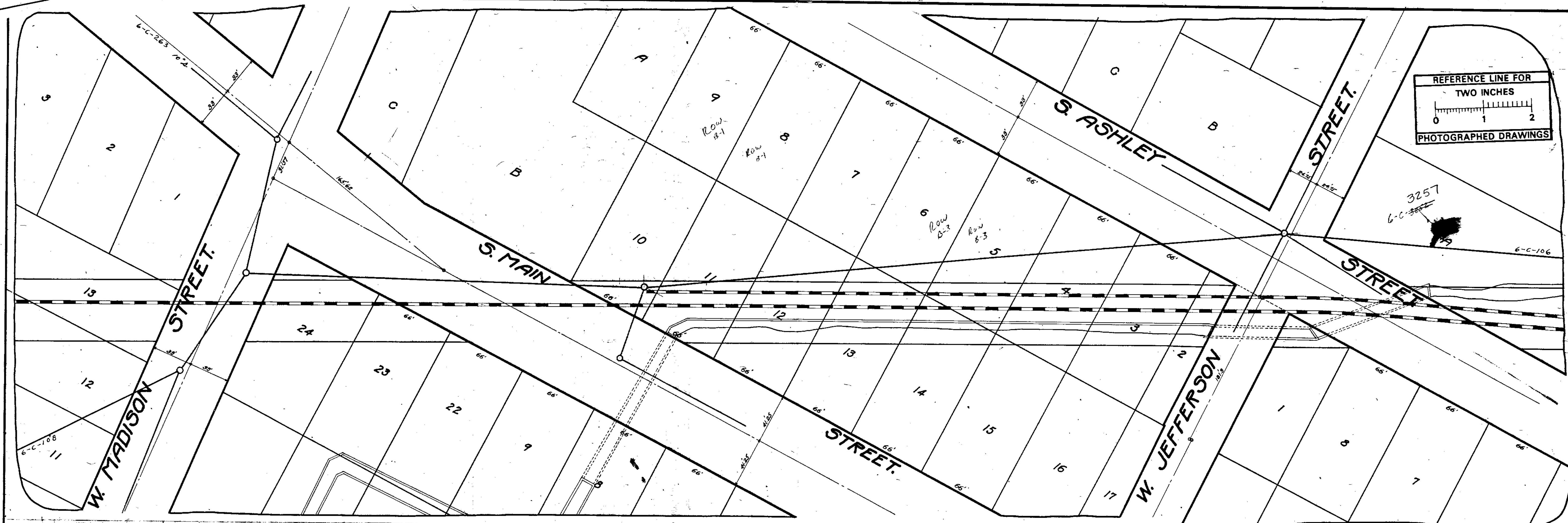
71-XXXXX (Manhole ID)

X.XX ft (Manhole Depth)

S. Main St & E. Madison St



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SHEET No 11
 INDEX No 719
 SHELF No 6
 SIZE C
 SUB No 107
 Drawn by FLF
 Traced by FLF
 Checked by [Signature]

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
 PLAN AND PROFILE
 OF
MAIN SANITARY SEWER
 JEFFERSON TO MADISON.
 Manley Osgood, City Engineer
 1918
 Scales: Plan, 1"=40' - Profile, Hor. 1"=40' Vert. 1"=4'