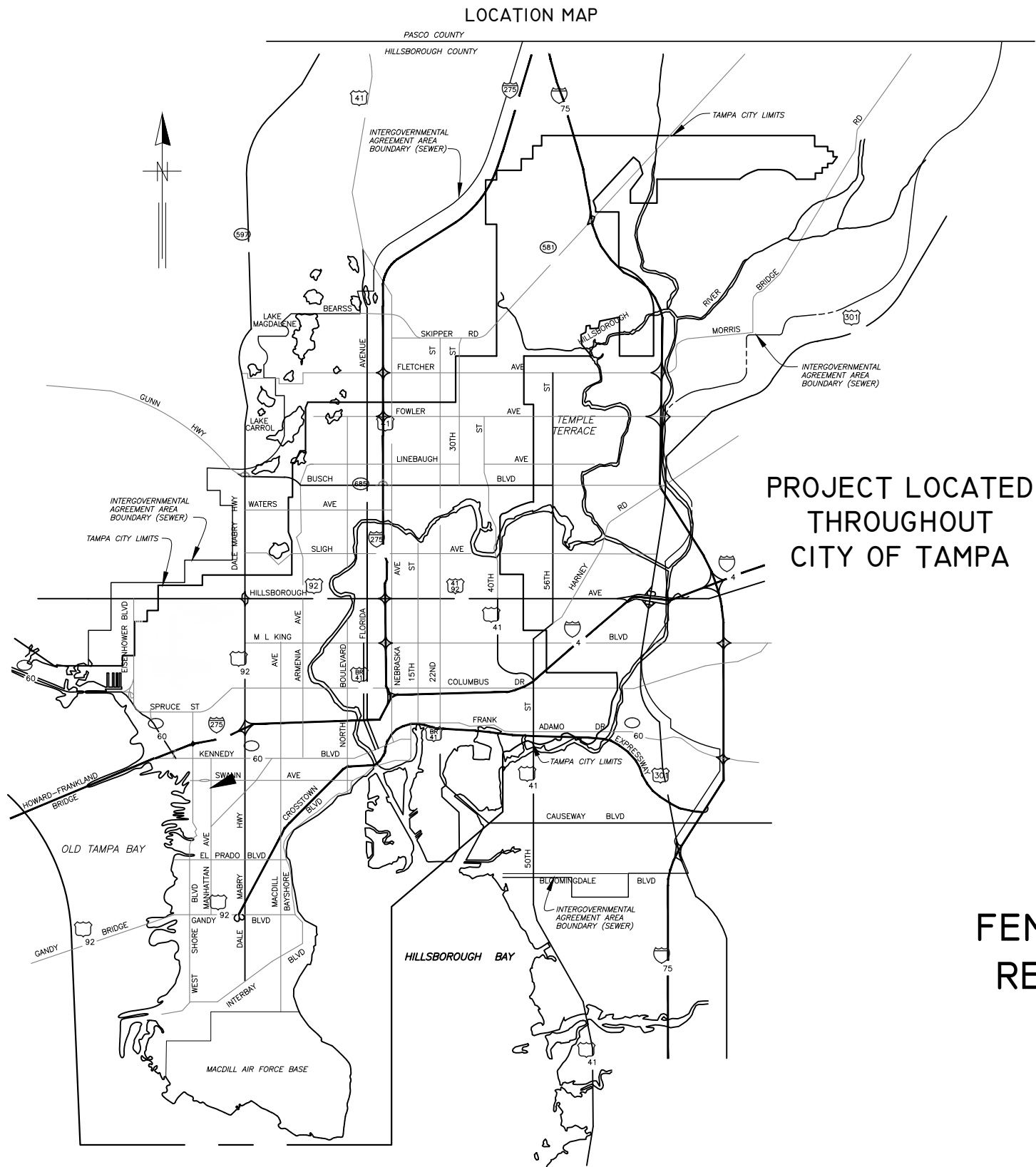


The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions:
[MailTo:ContractAdministration@TampaGov.net](mailto:ContractAdministration@TampaGov.net)

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

User: ssy Drawing Name: \\sewer\sewer\Projects\FEMA Mitigation\DWG\FEMA Mitigation CIPP Lining Project - Hurricane Irma\Drafting\DWG\FEMA Mitigation CIPP Lining Project.dwg
Layout: Jul 23, 2019 - 3:07pm CTB - WW-TOSHIBA.CTB



PROJECT LOCATED
THROUGHOUT
CITY OF TAMPA

CITY of TAMPA



WASTEWATER DEPARTMENT

PLANS FOR
FEMA MITIGATION - WASTEWATER GRAVITY SEWER
REHABILITATION BY CURED-IN-PLACE PIPE (CIPP)

CONTRACT No.
19-C-00050

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: CB	CITY of TAMPA WASTEWATER DEPARTMENT	FEMA MITIGATION - WASTEWATER GRAVITY SEWER REHABILITATION BY CIPP COVER SHEET	SHEET 1 OF 72
	3			DRN: KLT			
	2			CKD:			
	1			DATE: 7/23/19			

PLOTTED BY Katrina LeTrodec
Hurricane Irma\Drafting\DWG\FEMA Mitigation CIPP Lining Project.dwg
DRAWING FILE \\sewer\SewerShare\Wastewater Projects\FEMA Mitigation CIPP Lining Project -
CTB - WW-TOSHIBA.CTB
PLOT DATE: Tuesday, July 23, 2019 3:08:11 PM
LAST

GENERAL NOTES

1. THE SCOPE OF THIS PROJECT SHALL CONSIST OF REHABILITATION OF 8" AND 18" DIA WASTEWATER PIPELINE BY CLEANING, DETUBERCULATING, AND INSTALLATION OF CURED IN PLACE PIPE LINER AND ALL APPURTENANCE ASSOCIATED WITH COMPLETION OF THE PROJECT.
2. ELEVATION INFORMATION SHOWN ON THESE PLANS IS REFERENCED TO N.G.V.D. 1929 UNLESS OTHERWISE STATED.
3. SHEETS 41-72 ARE THE EXISTING AS-BUILTS OF THE SEWER PIPE TO BE REHABILITATED.
4. DURING THE MOT, CONTRACTOR MUST MAINTAIN ACCESS TO ALL DRIVEWAYS FOR THE DURATION OF THE PROJECT.
5. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR OBTAINING THE NECESSARY ROAD CLOSURE AND RIGHT-OF-WAY PERMITS FROM THE APPROPRIATE GOVERNMENT AGENCIES HAVING JURISDICTION OVER THE SPECIFIC ROADWAYS.
6. IN ORDER TO OBTAIN ROADWAY CLOSURE OR RIGHT-OF WAY PERMITS, AT MINIMUM, THE CONTRACTOR MUST SUBMIT DETAILED MAINTENANCE OF TRAFFIC (MOT) PLANS ALONG WITH APPLICATIONS TO THE APPROPRIATE AGENCY. THE MOT(S) SHALL CONFORM TO APPLICABLE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) INDEX DRAWINGS (MOST CURRENT EDITION). THE GOVERNING AGENCIES MAY REQUIRE ADDITIONAL INFORMATION AND DICTATE SPECIFIC WORK TIMES DURING NON-PEAK TRAFFIC HOURS. REFER TO SPECIFIC PROVISIONS FOR SPECIFIC TRAFFIC CONTROL REQUIREMENTS.
7. CONTINUOUS SEWER SERVICE MUST BE MAINTAINED AT ALL TIMES. WORK DURING LOW FLOW PERIODS OR NIGHT WORK MAY BE REQUIRED. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PRIVATE AND CITY PUMPING STATIONS AND SEWER SERVICE VIA VACUUM TRUCKS. CONTRACTOR IS RESPONSIBLE FOR DEWATERING, COLLECTING AND DISPOSING OF ALL WATER AND SLUDGE FROM EXISTING FACILITIES AS NECESSARY TO MAINTAIN SERVICE. COST FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS CONTRACT ITEMS AND NO ADDITIONAL PAYMENT WILL BE MADE.
8. BYPASS PUMPS SHALL BE CAPABLE OF DELIVERING 300 GPM FOR 8" DIA PIPE, AND 1550 GPM FOR 18" DIA PIPE. THE BYPASS PUMPS SHALL BE OF THE SELF PRIMING QUIET FLOW TYPE PUMP. BYPASS PUMP NOISE SHALL STRICTLY COMPLY TO ALL LOCAL REGULATIONS AND ORDINANCES COVERING NOISE CONTROL. THIS MAY REQUIRE CONSTRUCTING SOUND ATTENUATING ENCLOSURE AROUND PUMPS. BYPASS METHOD SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER.
9. THE PROPOSED LINER THICKNESS FOR THE 8" SEWER SHALL BE 6.0 MM THICKNESS, AND 18" SEWER SHALL BE 9.0 MM THICKNESS.
10. CONTRACTOR SHALL RESTORE ALL LANDSCAPING, SODDING, SPRINKLER SYSTEM PIPING AND PAVEMENT THAT MAY HAVE BEEN DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION OR BETTER.
11. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH WASTEWATER PERSONNEL AND PUMPING STATION OPERATIONS.
12. OSHA STANDARD EQUIPMENT SUCH AS SAFETY HARNESES, GAS MONITORS, LOWER EXPLOSIVE LIMIT (LEL) DETECTORS, BREATHING APPARATUS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE.
13. FOR THE PIPES IN FDOT MAINTAINED ROADWAYS, THE CONTRACTOR SHALL NOTIFY FDOT MAINTENANCE DIVISION AT 813-612-3214 A MINIMUM OF 48 HOURS PRIOR TO STARTING THE REHABILITATION WORK. THE CITY WILL OBTAIN THE NECESSARY RIGHT OF WAY UTILITY USE PERMIT FROM FDOT. HOWEVER, THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL SIGNAGE IN ACCORDANCE WITH FDOT STANDARD INDEX DRAWINGS (MOST CURRENT EDITION)

INDEX	
SHEET NUMBER	SHEET NAME
1	COVER SHEET
2	NOTE AND INDEX
3	PROJECT LOCATIONS
4 - 40	AREA MAPS
41 - 72	Wastewater Record Drawings For Reference

RECORD DRAWINGS ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT INTENDED TO SHOW ADDITIONAL WORK FOR THIS CONTRACT. THE CITY DOES NOT GUARANTEE THE ACCURACY OF THE RECORD DRAWINGS.

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS
	3		
	2		
	1		

DES: CB
DRN: KLT
CKD:
DATE: 7/23/19

CITY of TAMPA
WASTEWATER DEPARTMENT

FEMA MITIGATION - WASTEWATER
GRAVITY SEWER REHABILITATION BY CIPP
NOTE AND INDEX

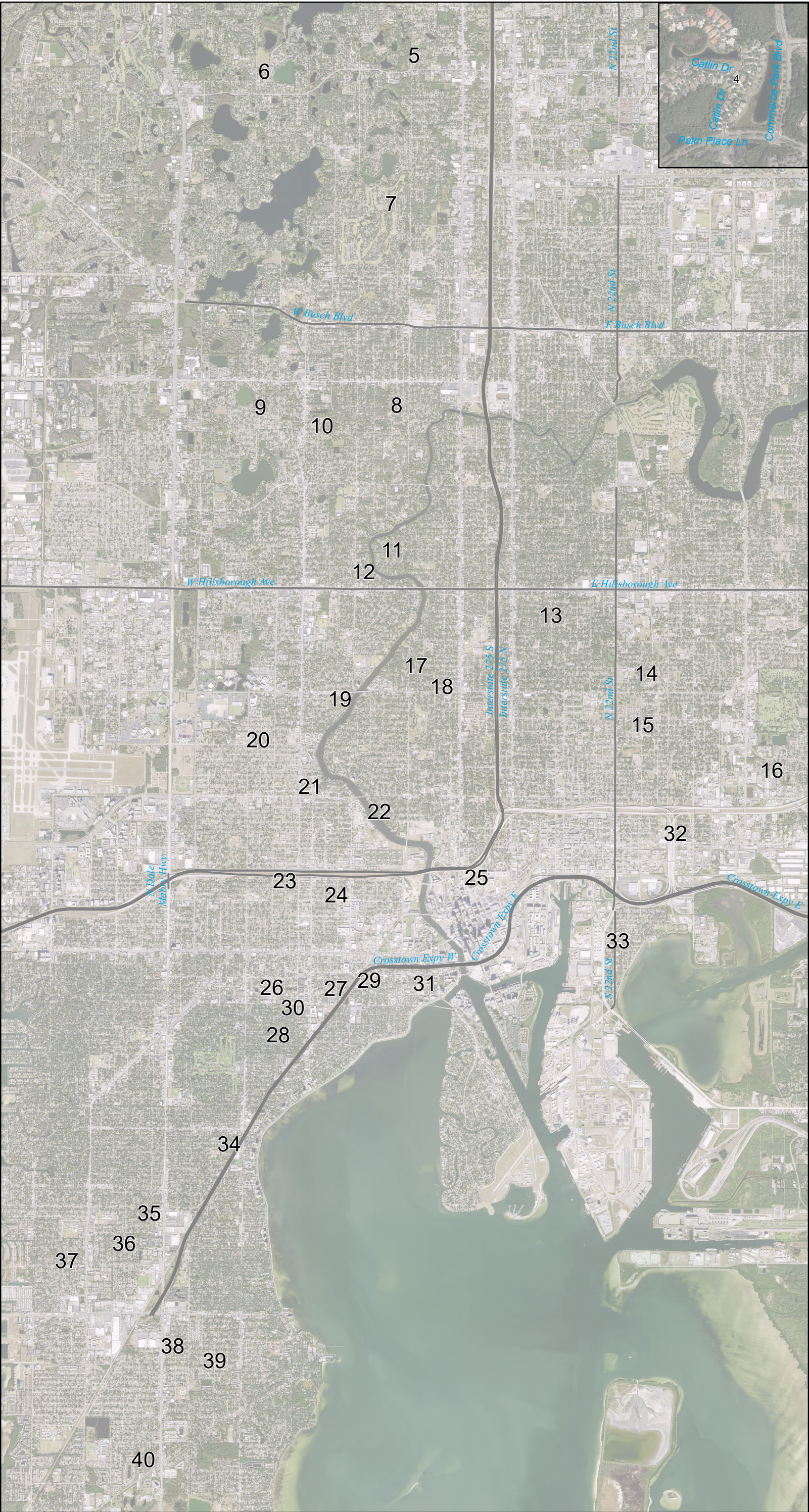
SHEET
2
OF 72

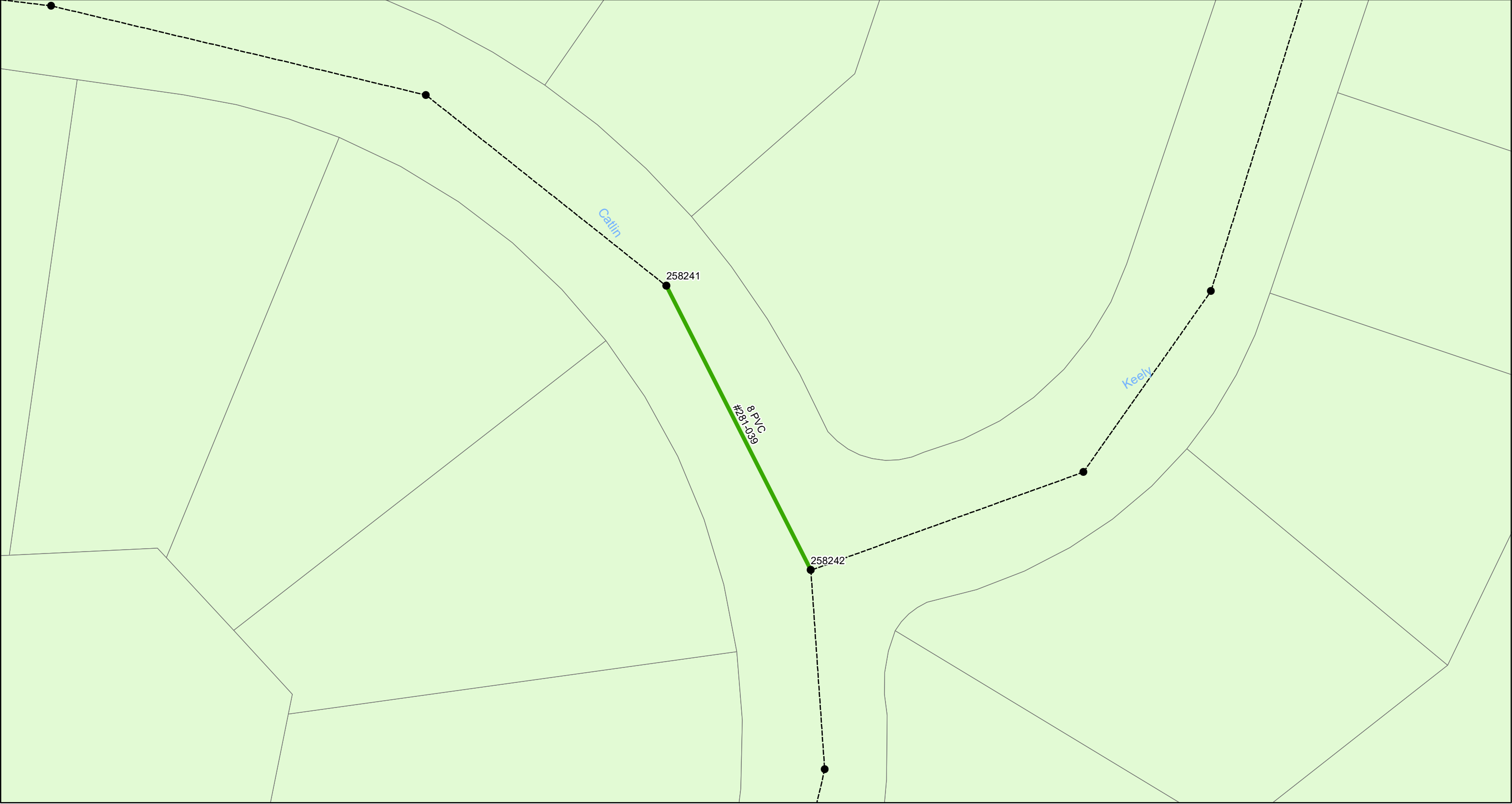
19-C-00050

FEMA Mitigation -- Wastewater Gravity Sewer Rehabilitation by Cured-In-Place Pipe (CIPP)

Legend

- 4- 6029 CATLIN DR
- 5- 13818 CAPITOL DR
- 6- 13338 MORAN DR
- 7- 1205 W NORTHMOOR PL
- 8- 8116 EL PORTAL DR
- 9- 3000 W SITKA ST
- 10- 2301 W KENMORE AV
- 11- 708 W IDLEWILD AV
- 11- 908 W IDLEWILD AV
- 11- 5914 N LYNN AV
- 12- 1502 W RIO VISTA AV
- 13- 5000 N 13 ST
- 14- 2627 E GENESEE ST
- 15- 2601 E 29 AV
- 16- 3007 N HUDSON ST
- 17- 4401 N CLEARFIELD AV
- 17- 4702 WILLIS ST
- 18- 111 W ALVA ST
- 18- 204 W CHELSEA ST
- 18- 311 W IDA ST
- 19- 1901 W ORIENT ST
- 19- 3506 N PERRY AV
- 20- 3014 W HEITER ST
- 21- 2311 W AILEEN ST
- 22- 2411 W RIVERSIDE DR
- 23- 1400 N TAMPANIA AV
- 24- 1100 blk N FREMONT AV
- 25- 1300 blk N JEFFERSON ST
- 26- 500 BLK S HABANA AV
- 27- 505 S FREMONT AV
- 28- 1006 S MOODY AV
- 28- 2605 W JETTON AV
- 29- 402 S ORLEANS AV
- 30- 800 S LAKEVIEW RD
- 31- 400 Blk S CEDAR AV
- 32- 3102 E 9 AV
- 33- 2216 LINSEY ST
- 34- 3217 W SAN PEDRO ST
- 35- 3905 W BAY VILLA AV
- 36- 4317 S CLARK AV
- 37- 4426 W LAWN AV
- 38- 3605 W PEARL AV
- 38- 3612 W CHEROKEE AV
- 38- 5100 Block S STERLING AV
- 39- 5300 BLK S SHERIDAN RD
- 40- 6426 S ADELIA AV





19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area

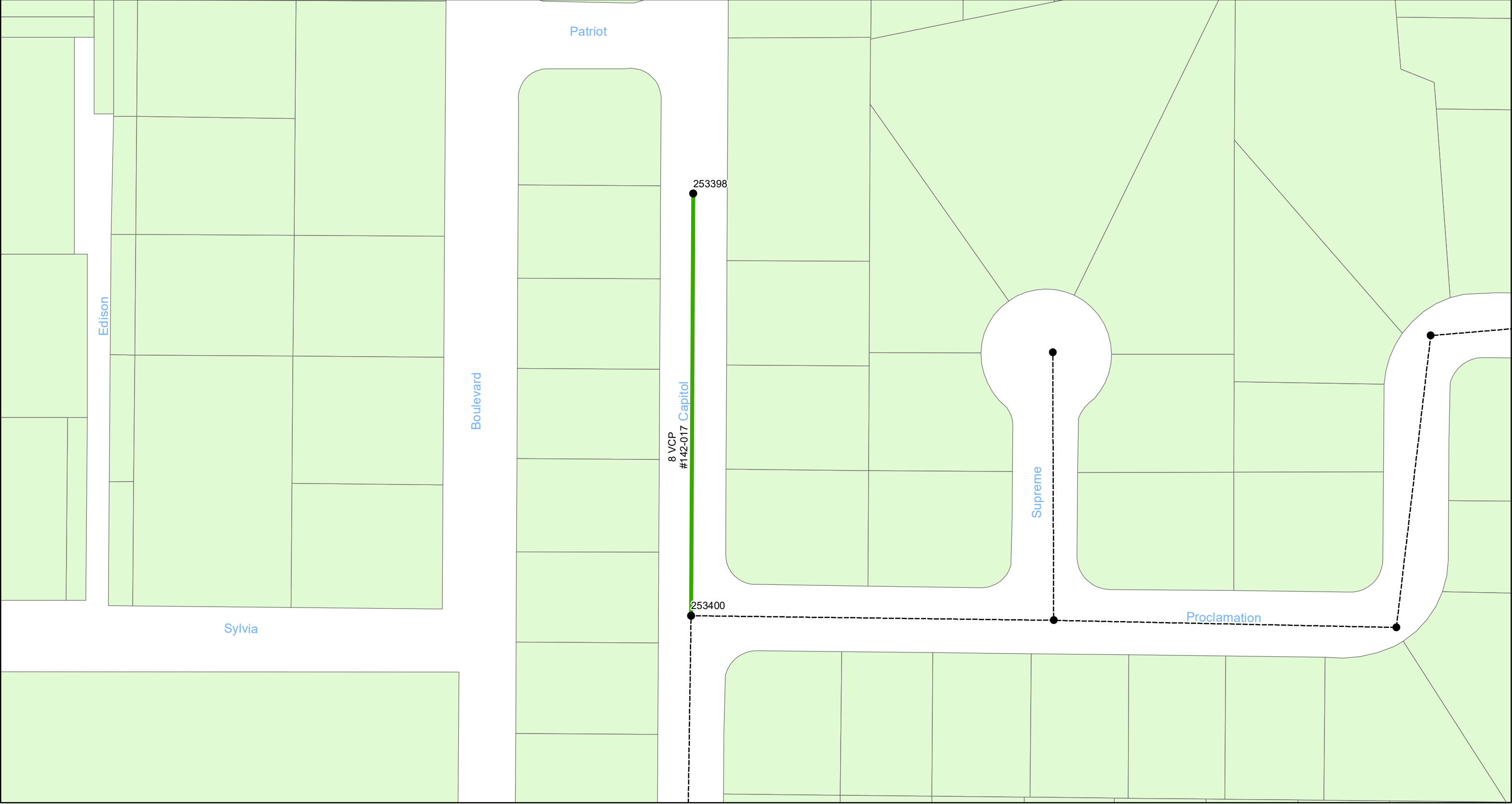


Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





0 0.0225 0.045 0.09 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

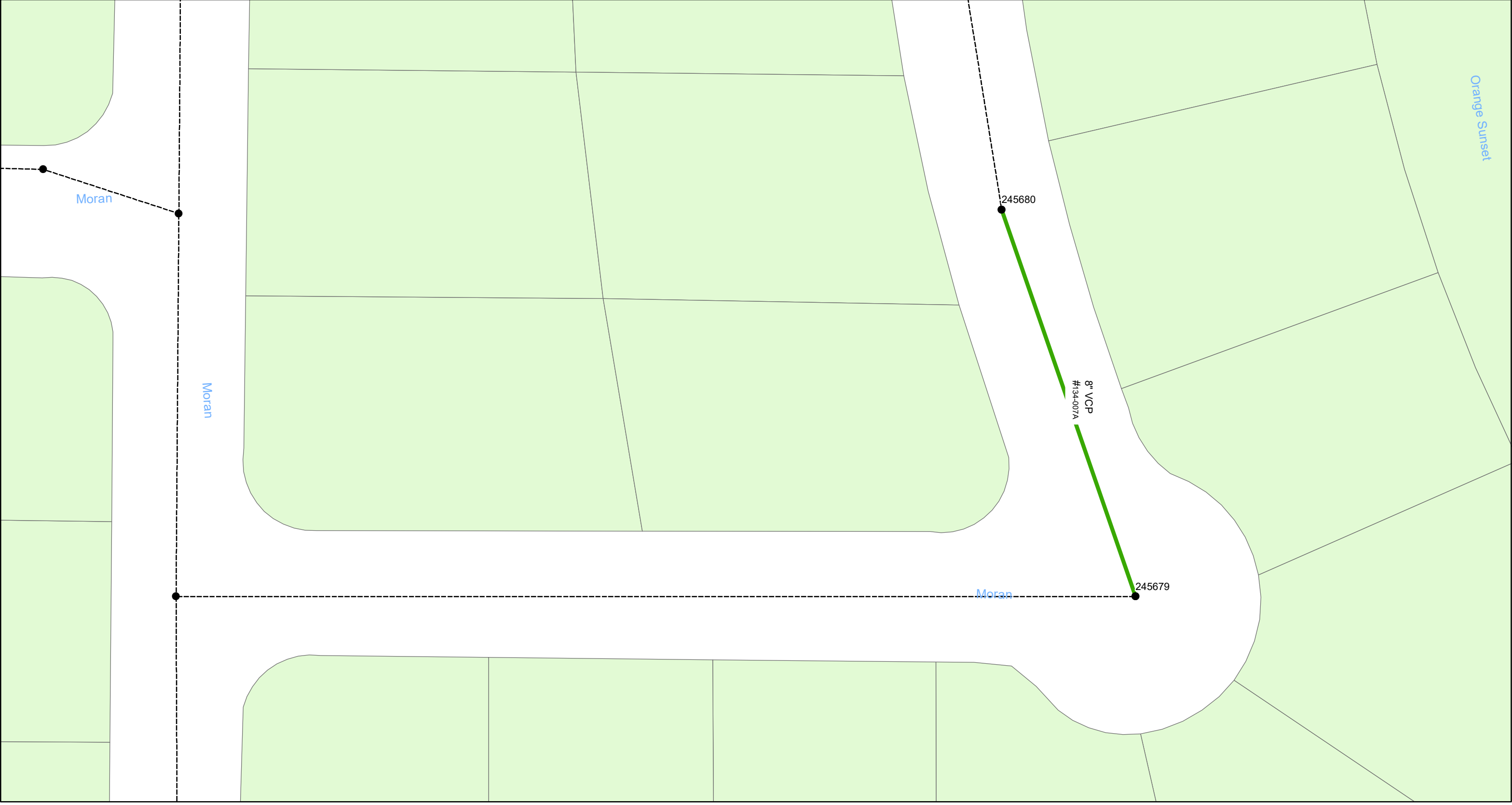
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• Manholes — Lining Area - - - - - Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





0 0.01 0.02 0.04 Miles

19-C-00050
**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)**
City of Tampa Wastewater Department

Legend



Manholes



Lining Area

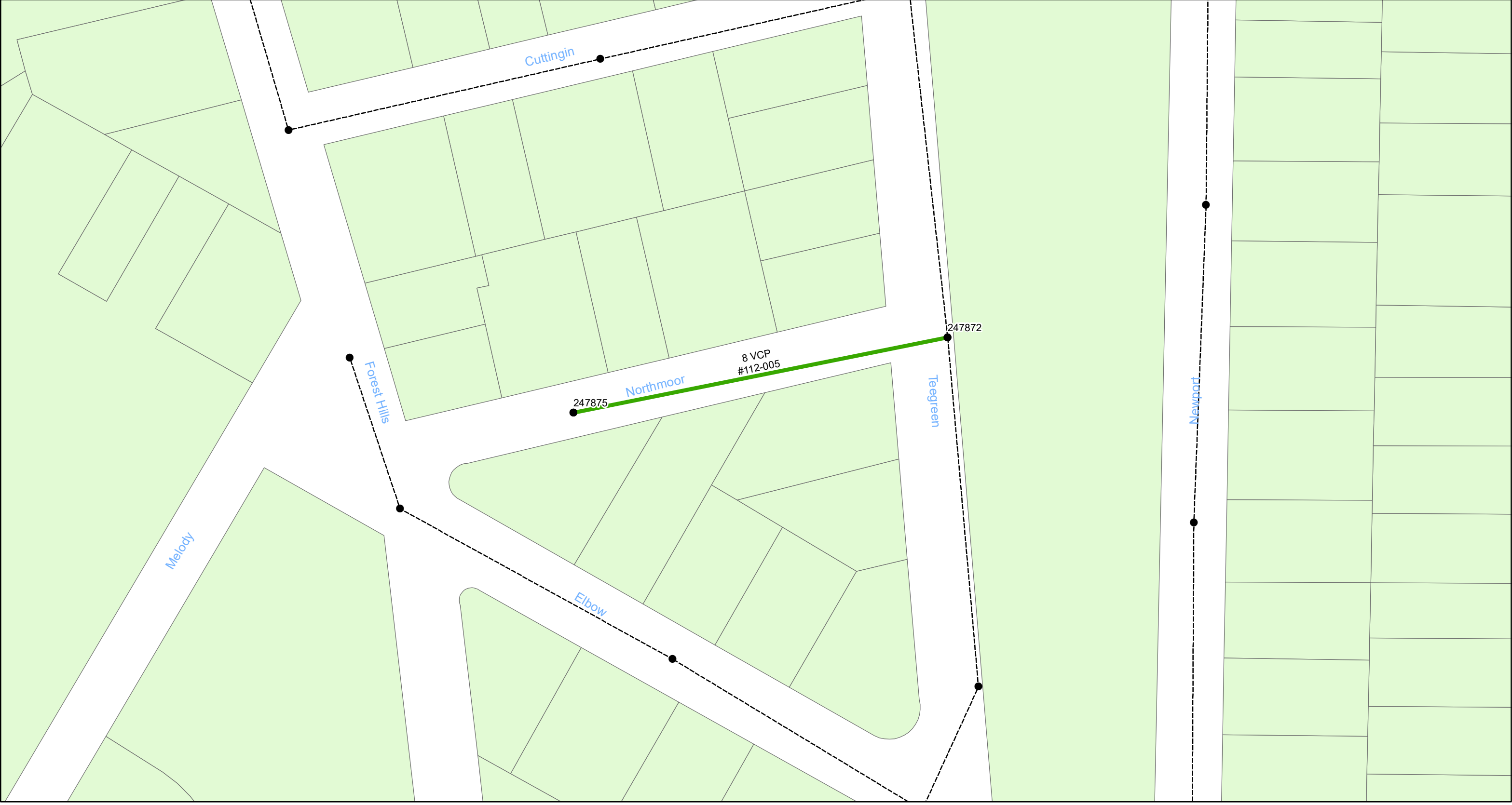


Ex Wastewater (no rehabilitation required)



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of 72





0 0.0275 0.055 0.11 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

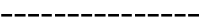
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Manholes



Lining Area

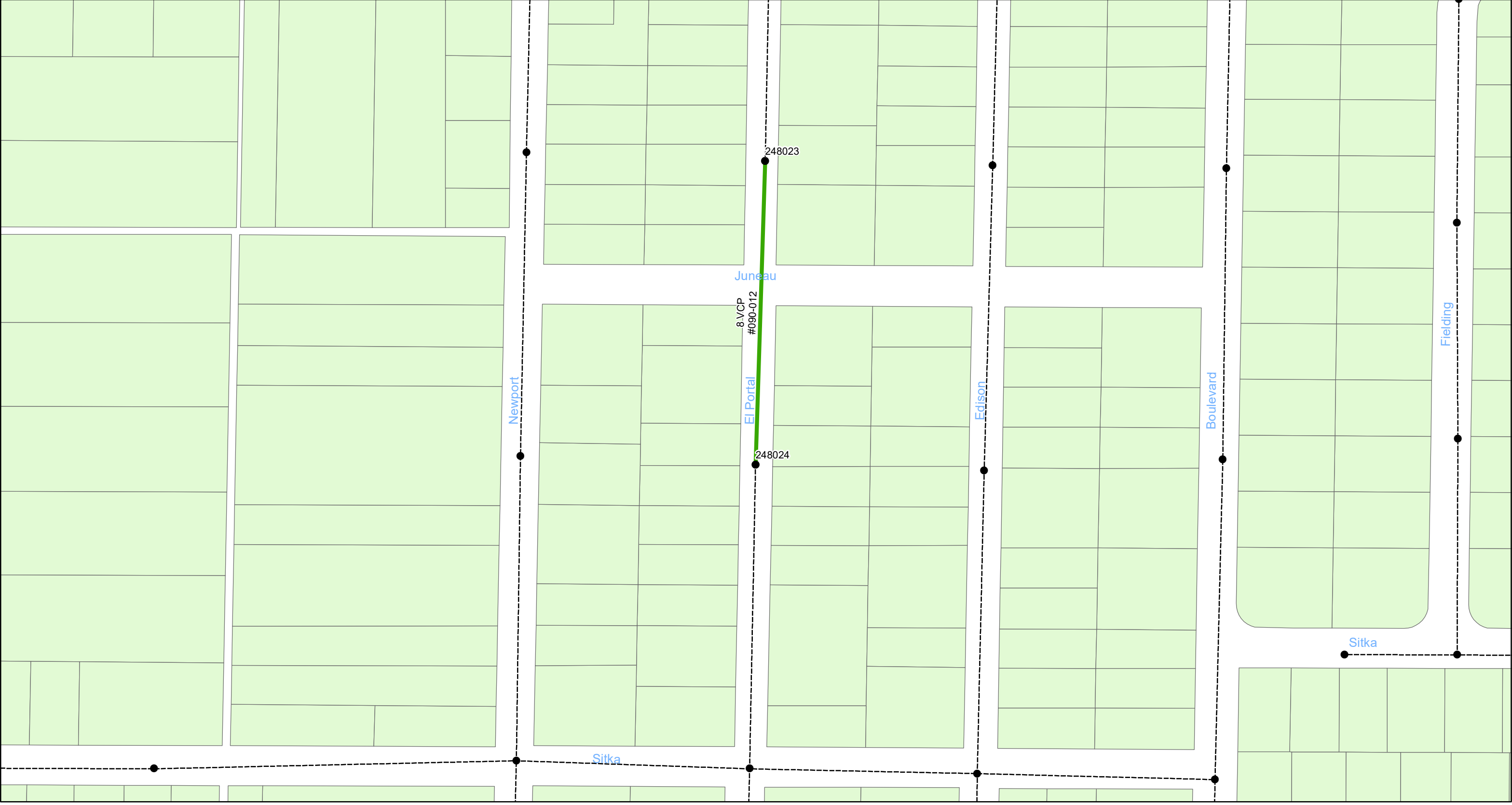


Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





0 0.0375 0.075 0.15 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area

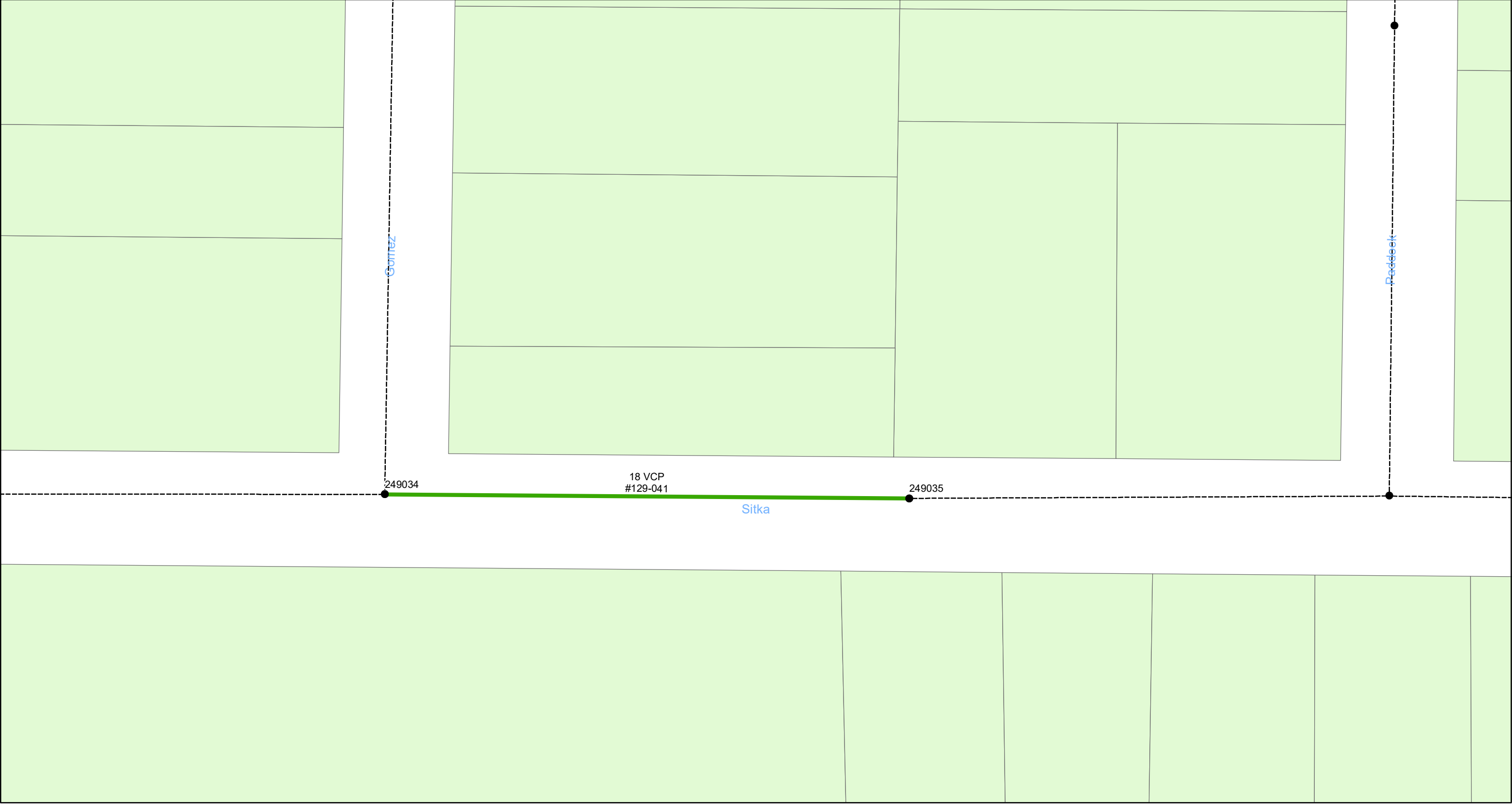


Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





0 0.0125 0.025 0.05 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area

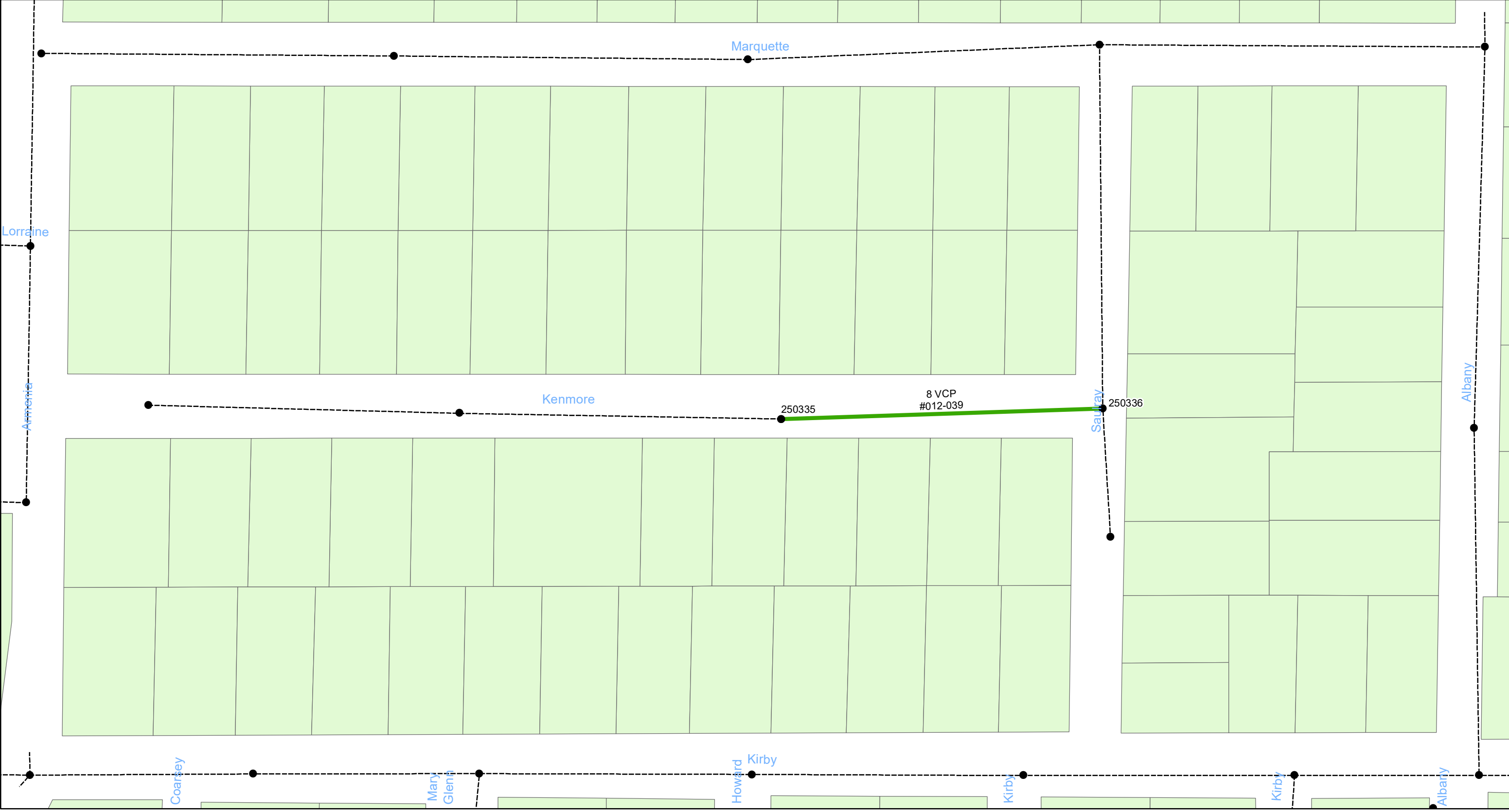


Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

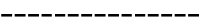
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Manholes



Lining Area

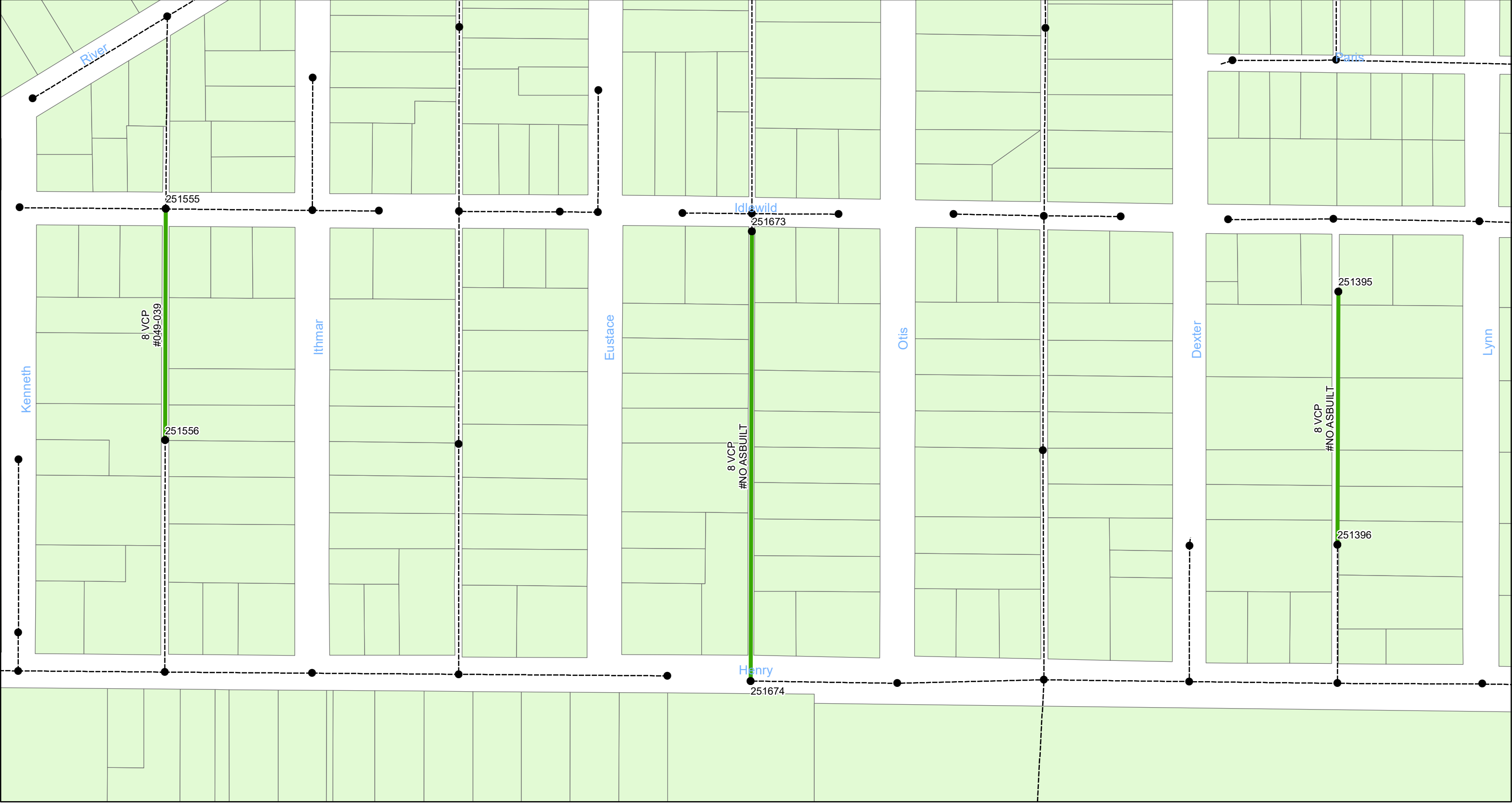


Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





0 0.0425 0.085 0.17 Miles

19-C-00050
**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)**
City of Tampa Wastewater Department

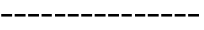
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Manholes



Lining Area

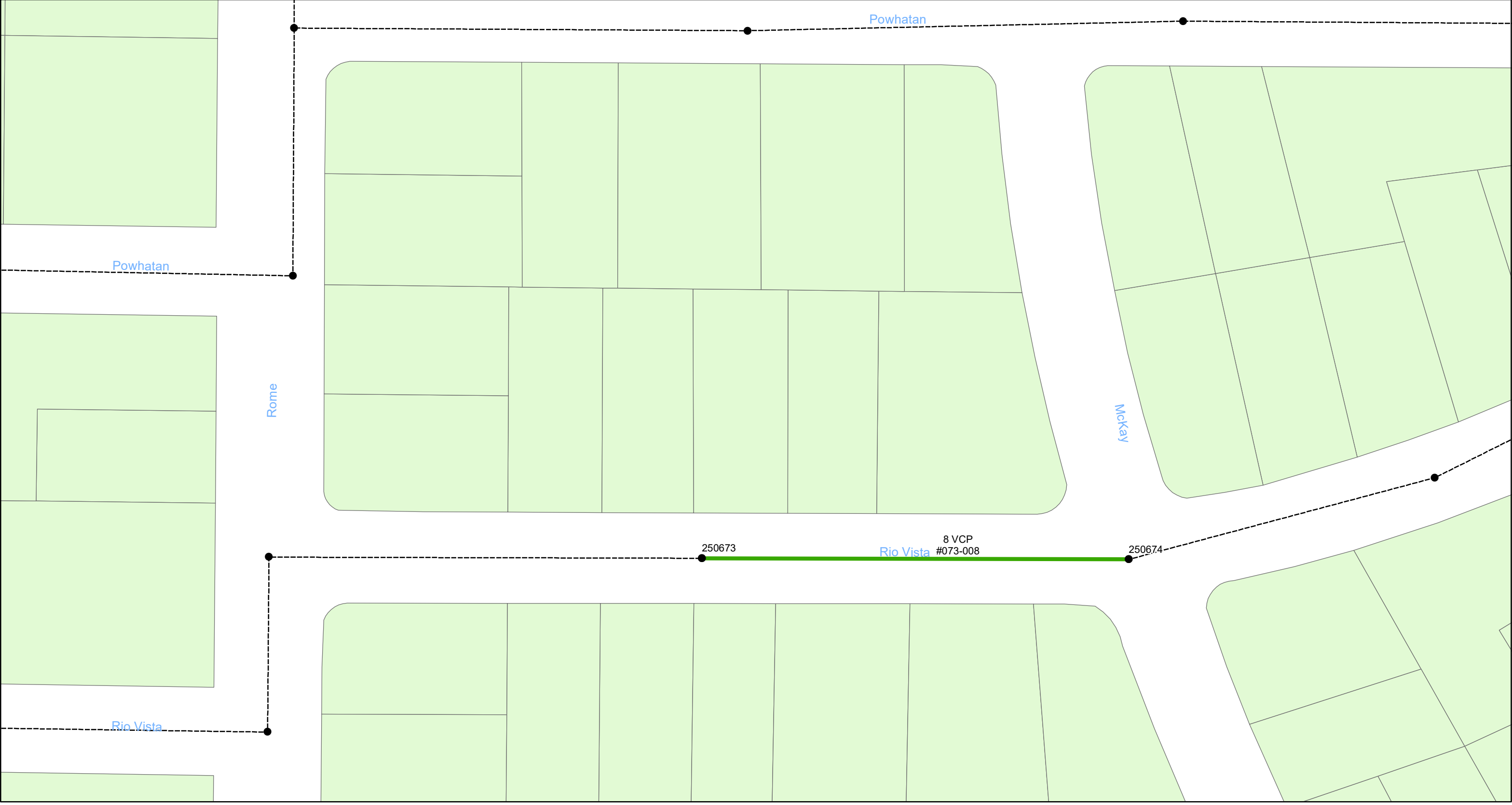


Ex Wastewater (no rehabilitation required)



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of 72





0 0.015 0.03 0.06 Miles

19-C-00050
FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department

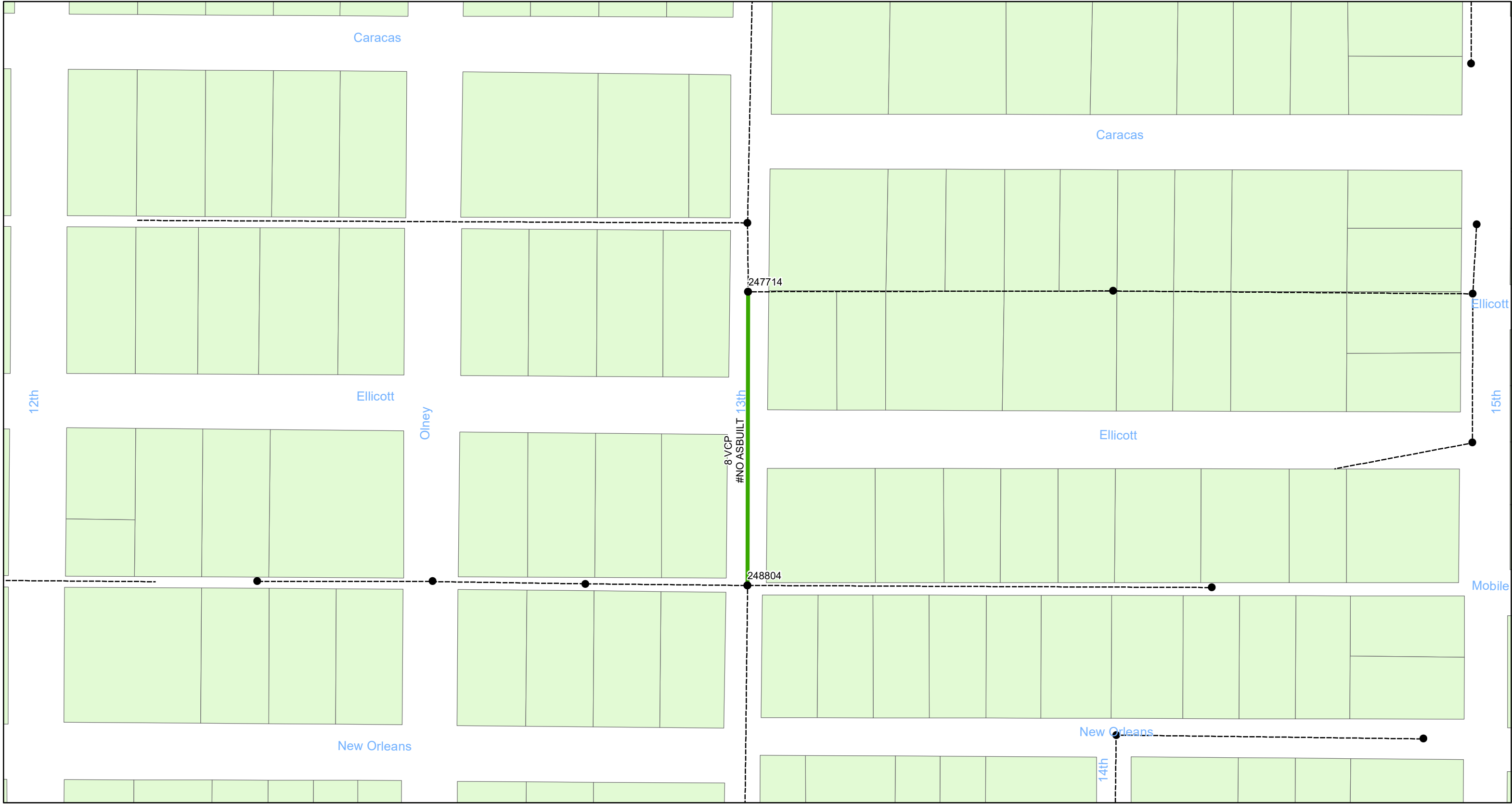
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- Manholes
- Lining Area
- Ex Wastewater (no rehabilitation required)



Sheet No.
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0 0.025 0.05 0.1 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

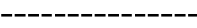
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Manholes



Lining Area

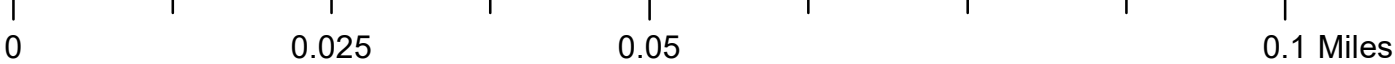
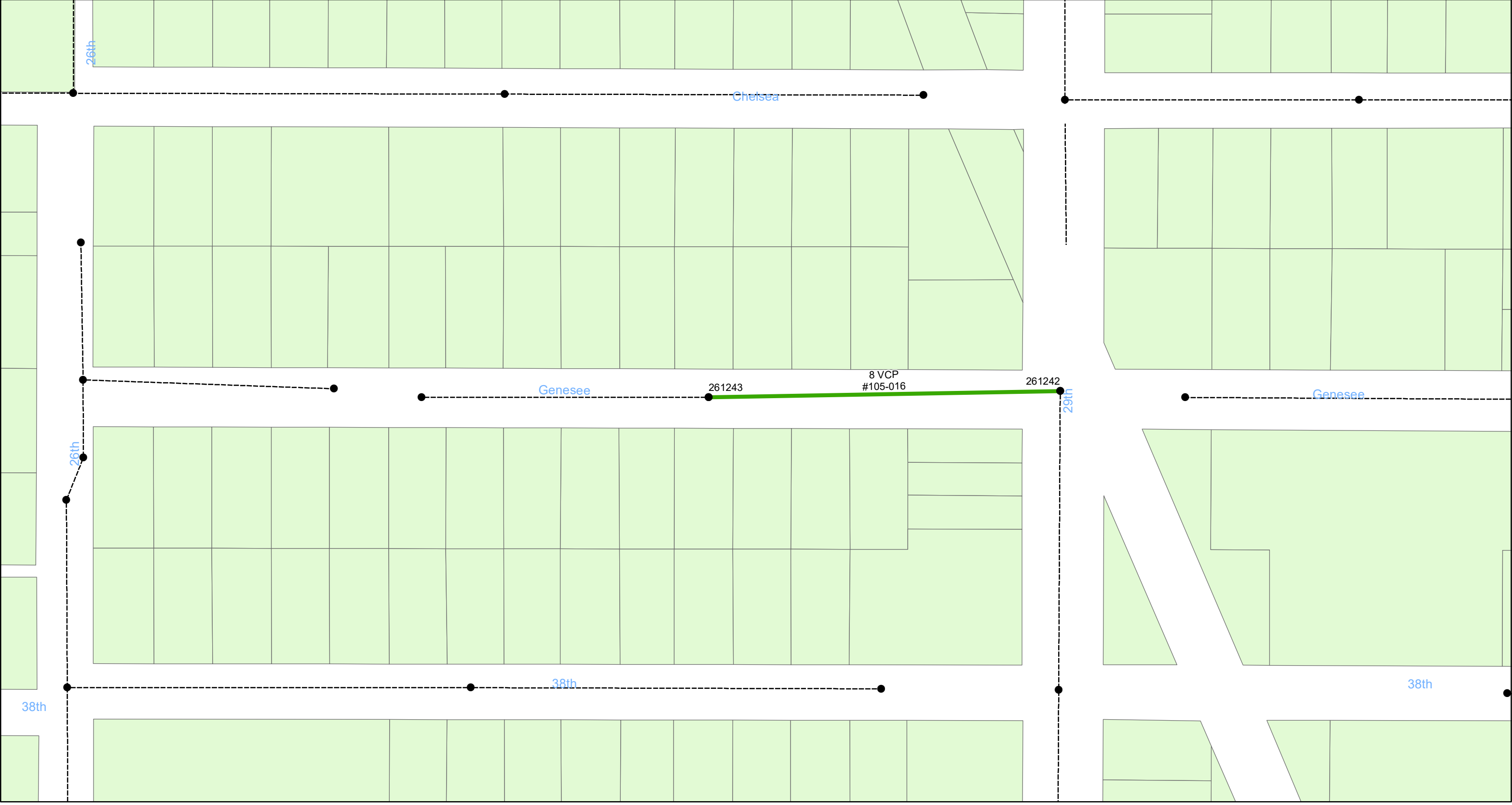


Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area

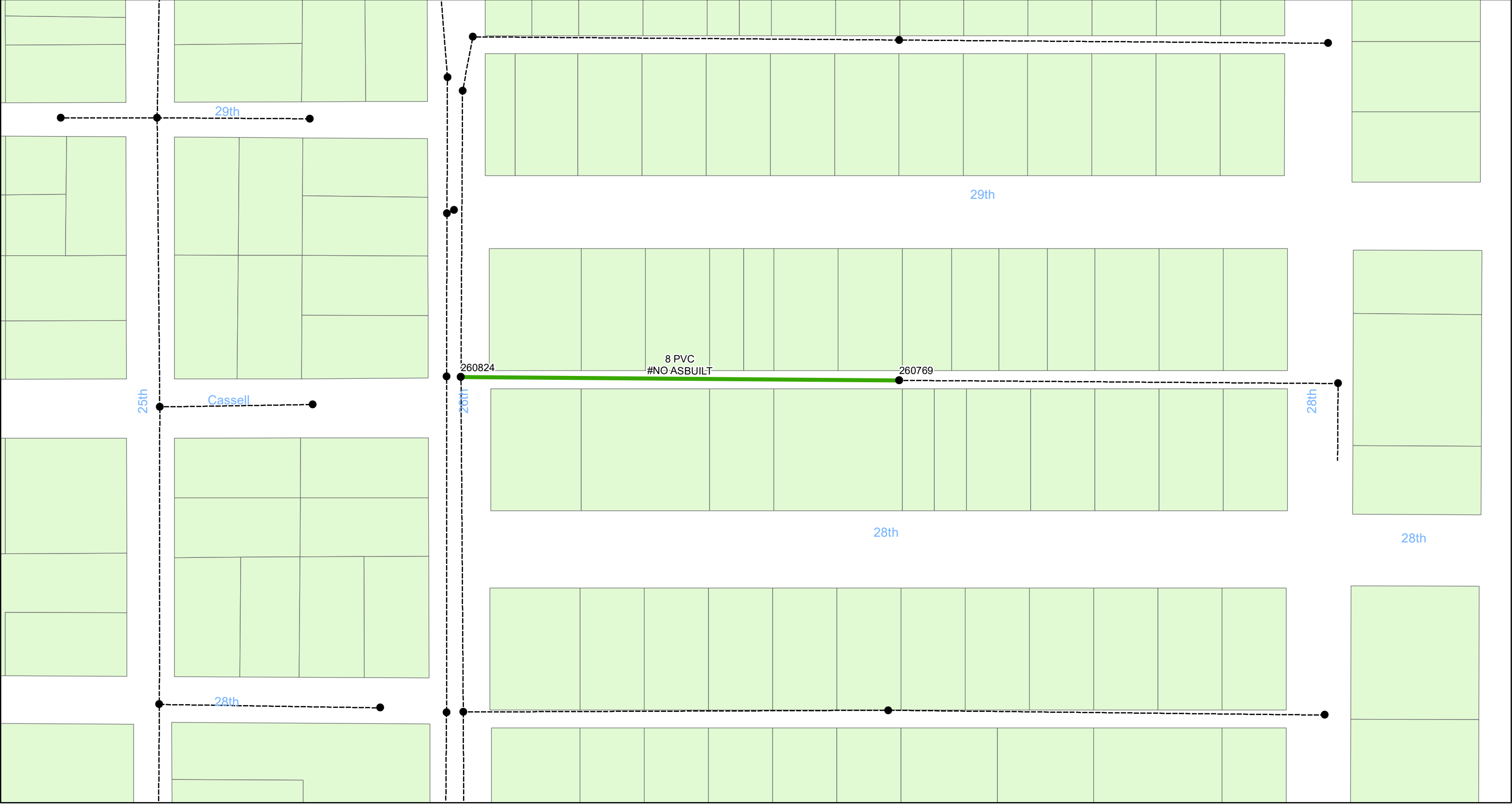


Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





0 0.0225 0.045 0.09 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

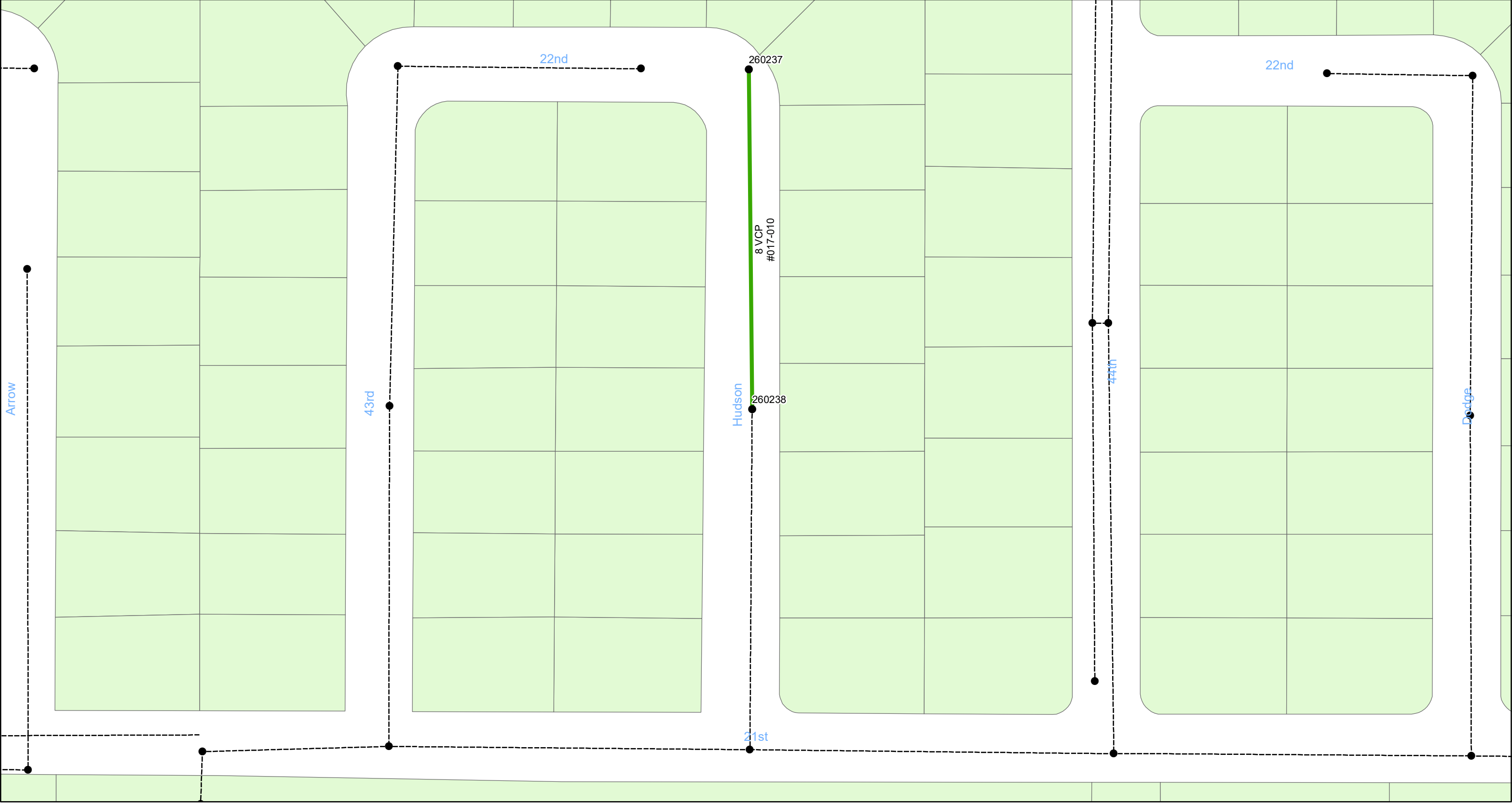
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• Manholes ————— Lining Area - - - - - Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





0 0.02 0.04 0.08 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area

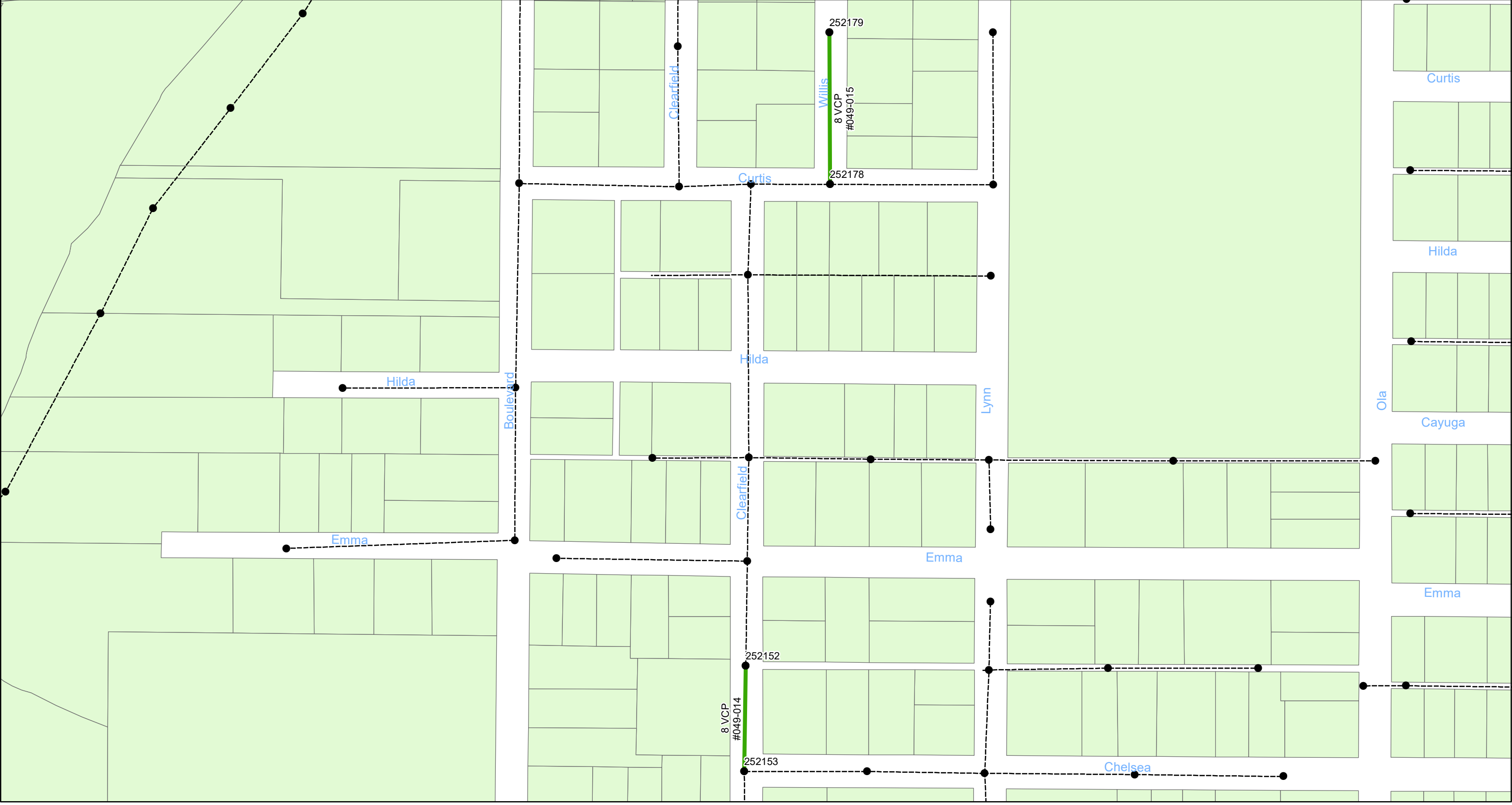


Ex Wastewater (no rehabilitation required)



**Sheet No.
16
of 72**





0 0.045 0.09 0.18 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

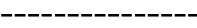
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Manholes



Lining Area

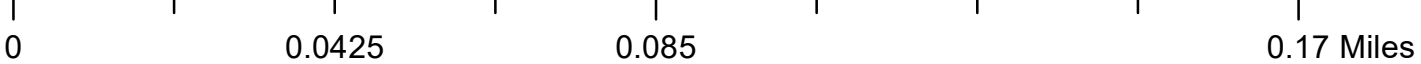
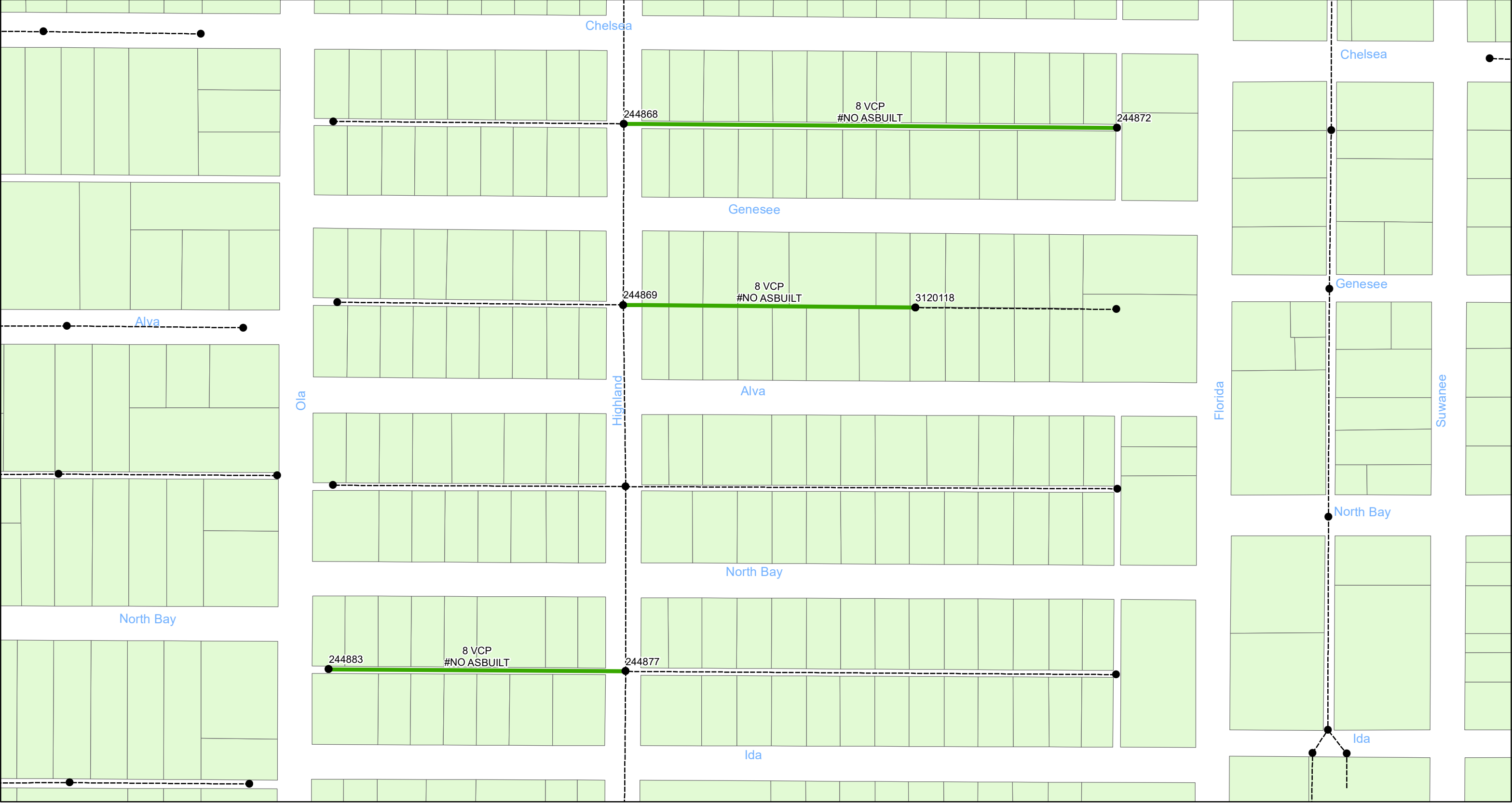


Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





19-C-00050
FEMA Mitigation – Wastewater Gravity Sewer Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department

Legend



Manholes



Lining Area

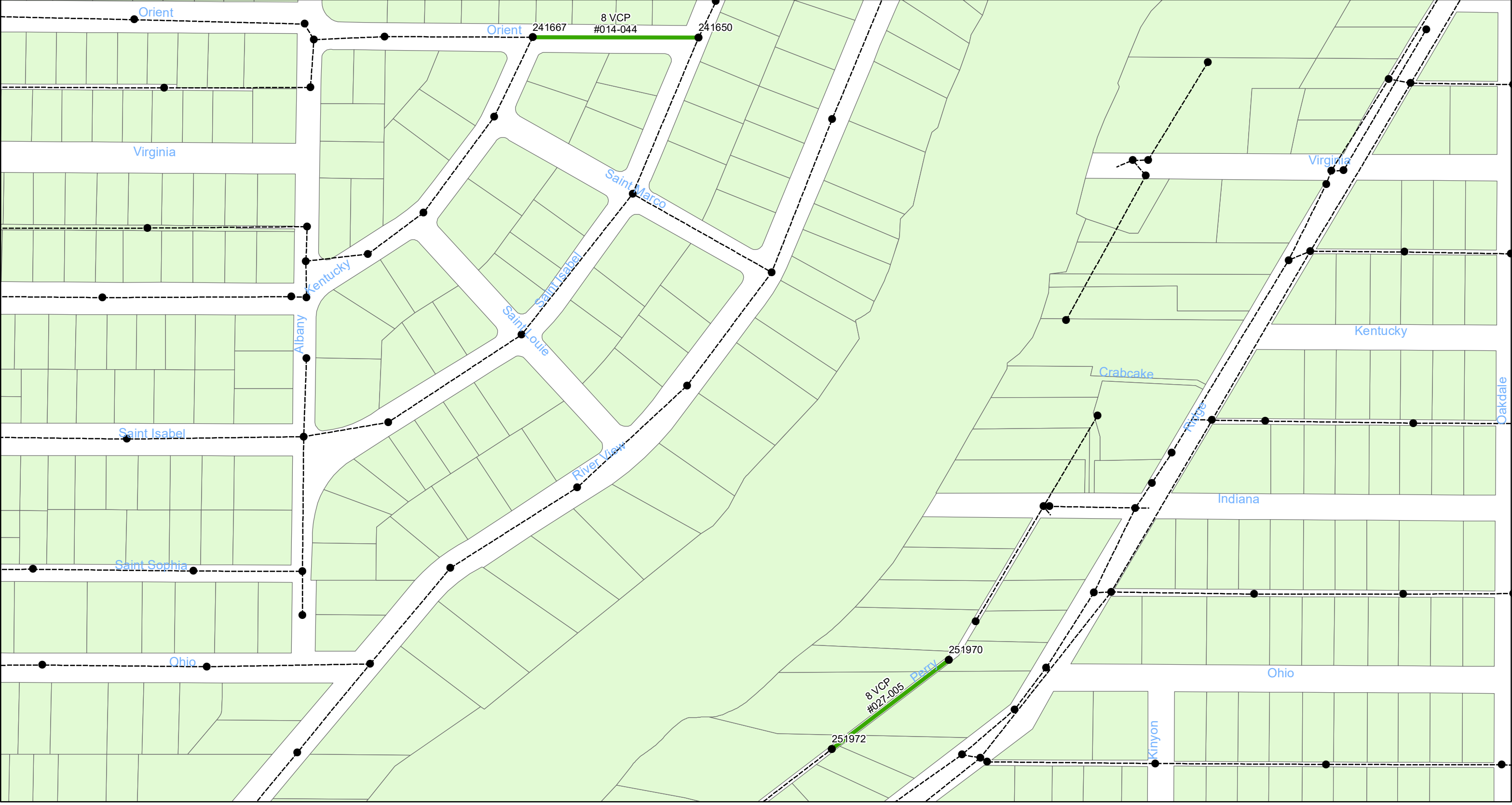


Ex Wastewater (no rehabilitation required)



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of 72





0 0.05 0.1 0.2 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

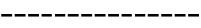
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Manholes



Lining Area

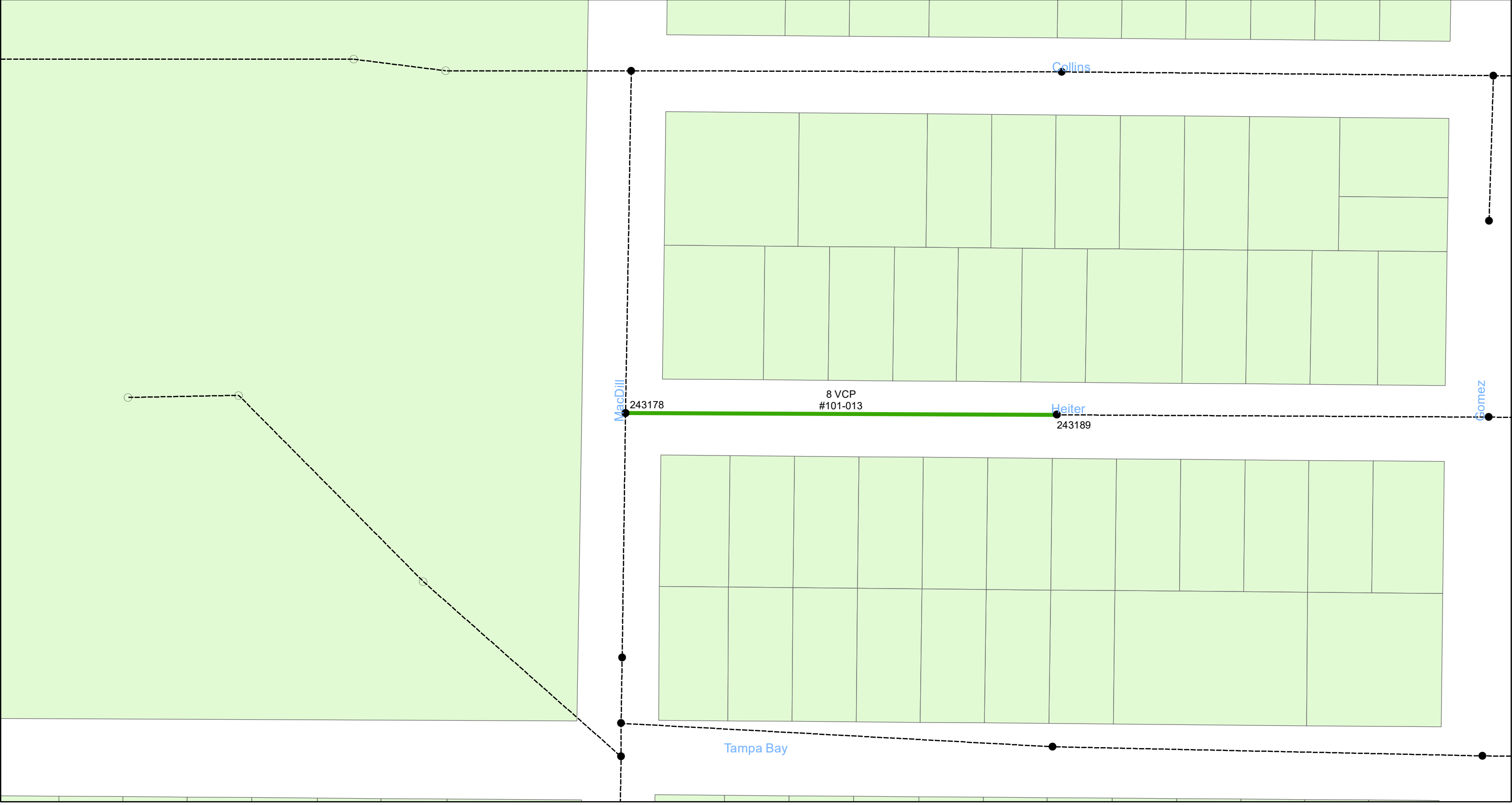


Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





0 0.0225 0.045 0.09 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area



Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





0 0.0275 0.055 0.11 Miles

19-C-00050
FEMA Mitigation – Wastewater Gravity Sewer Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department

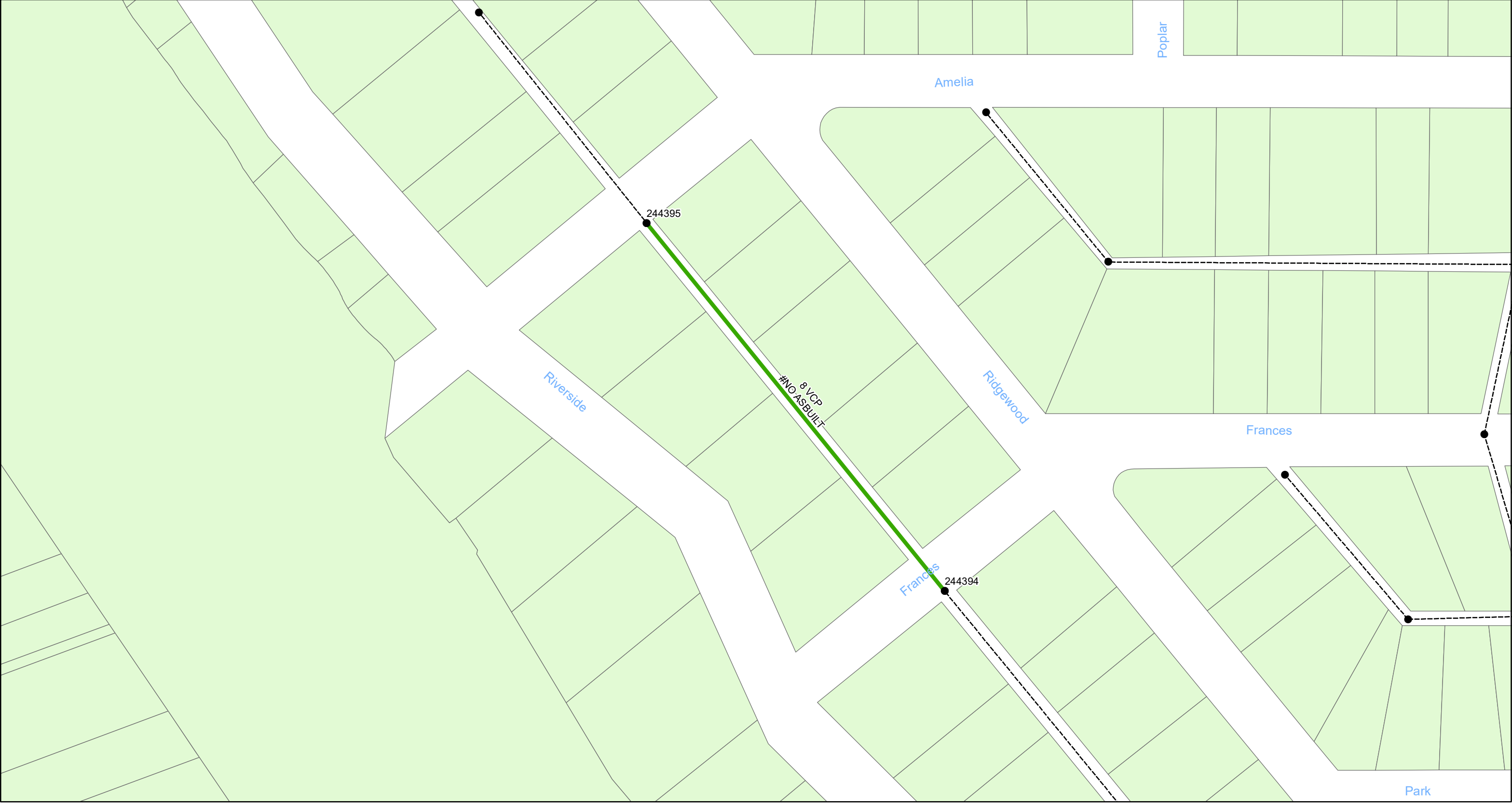
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- Manholes
- Lining Area
- Ex Wastewater (no rehabilitation required)



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of 72





0 0.0275 0.055 0.11 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area

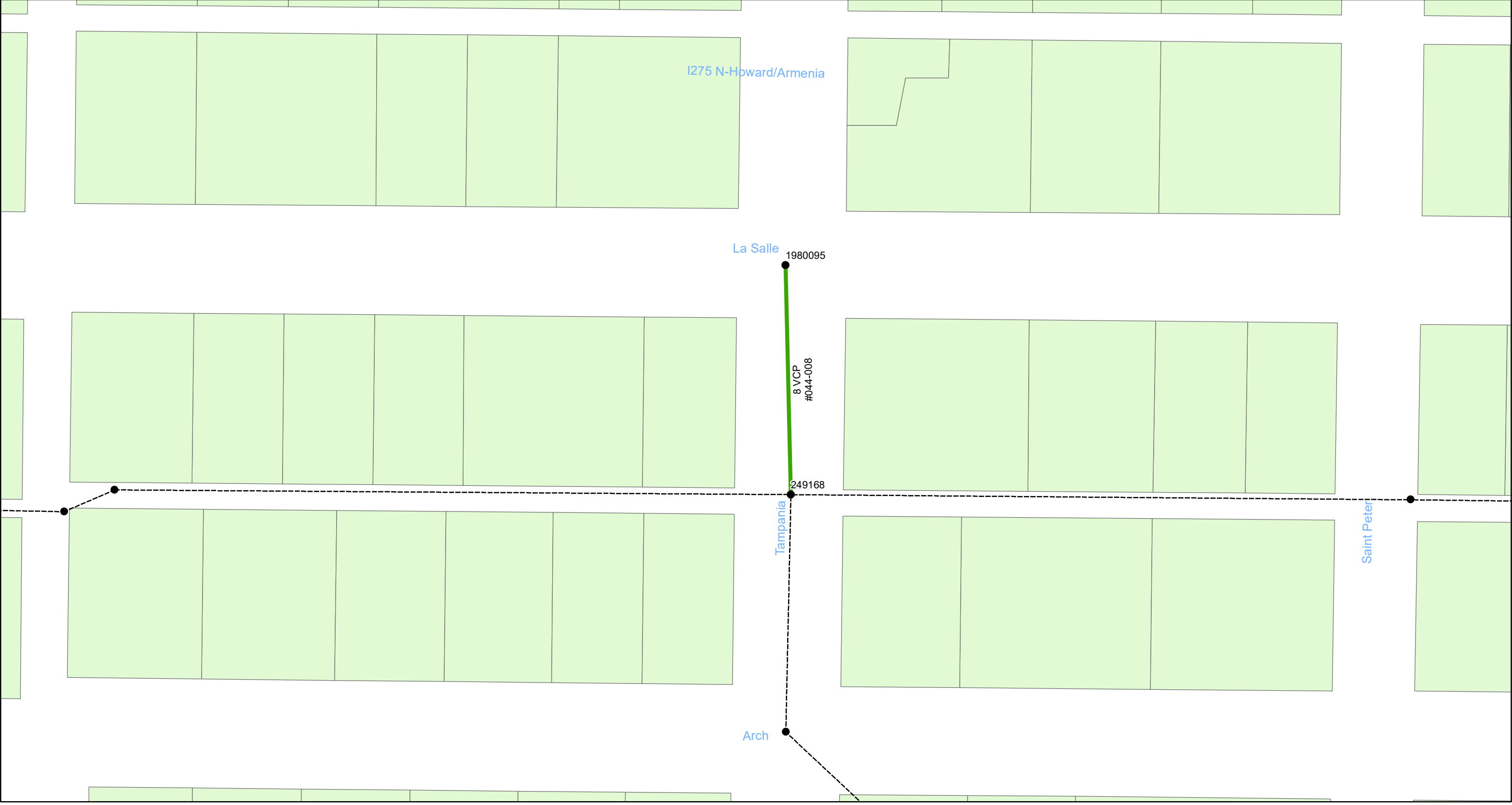


Ex Wastewater (no rehabilitation required)



**Sheet No.
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0 0.015 0.03 0.06 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area

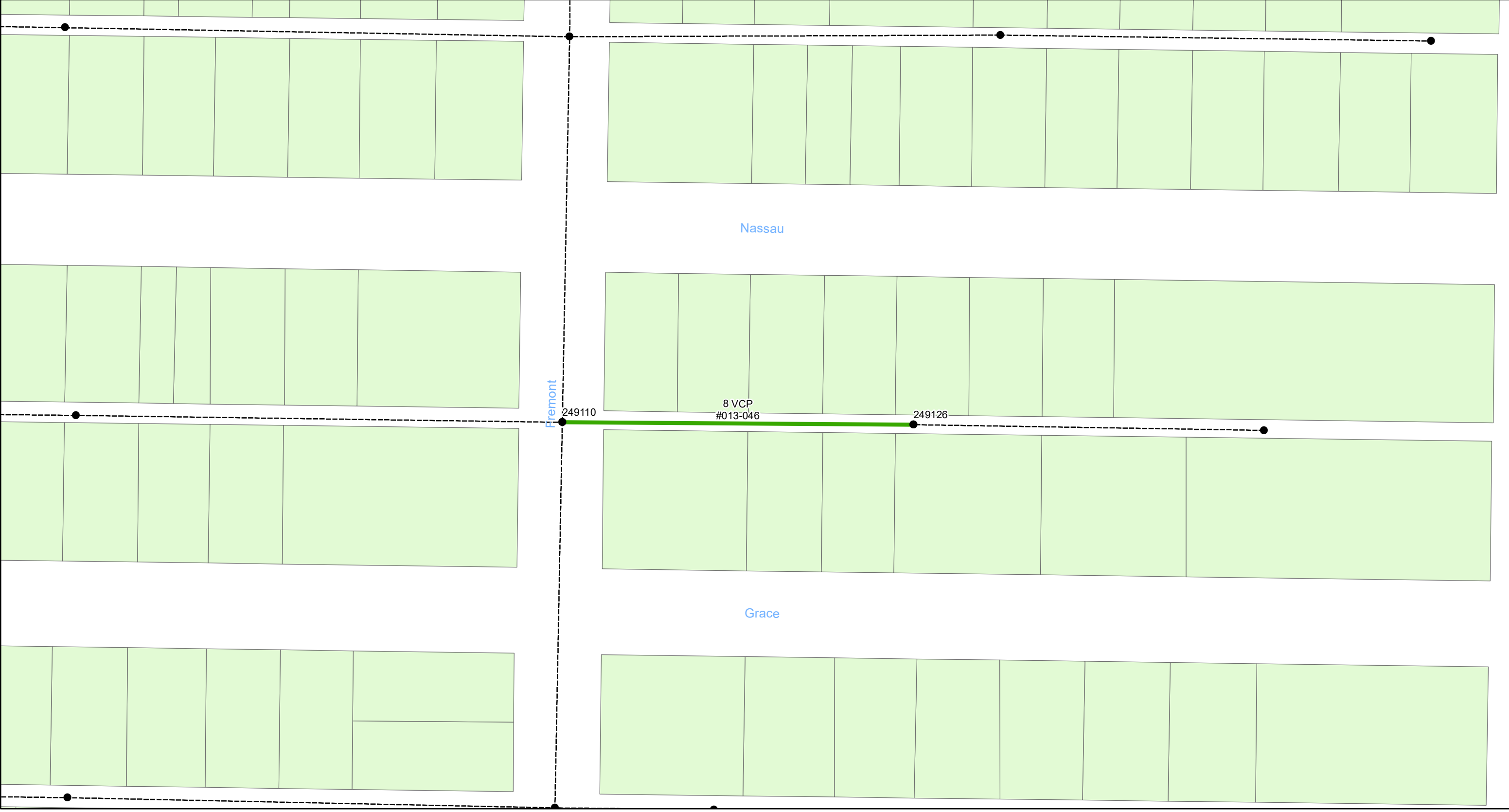


Ex Wastewater (no rehabilitation required)



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0 0.02 0.04 0.08 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area

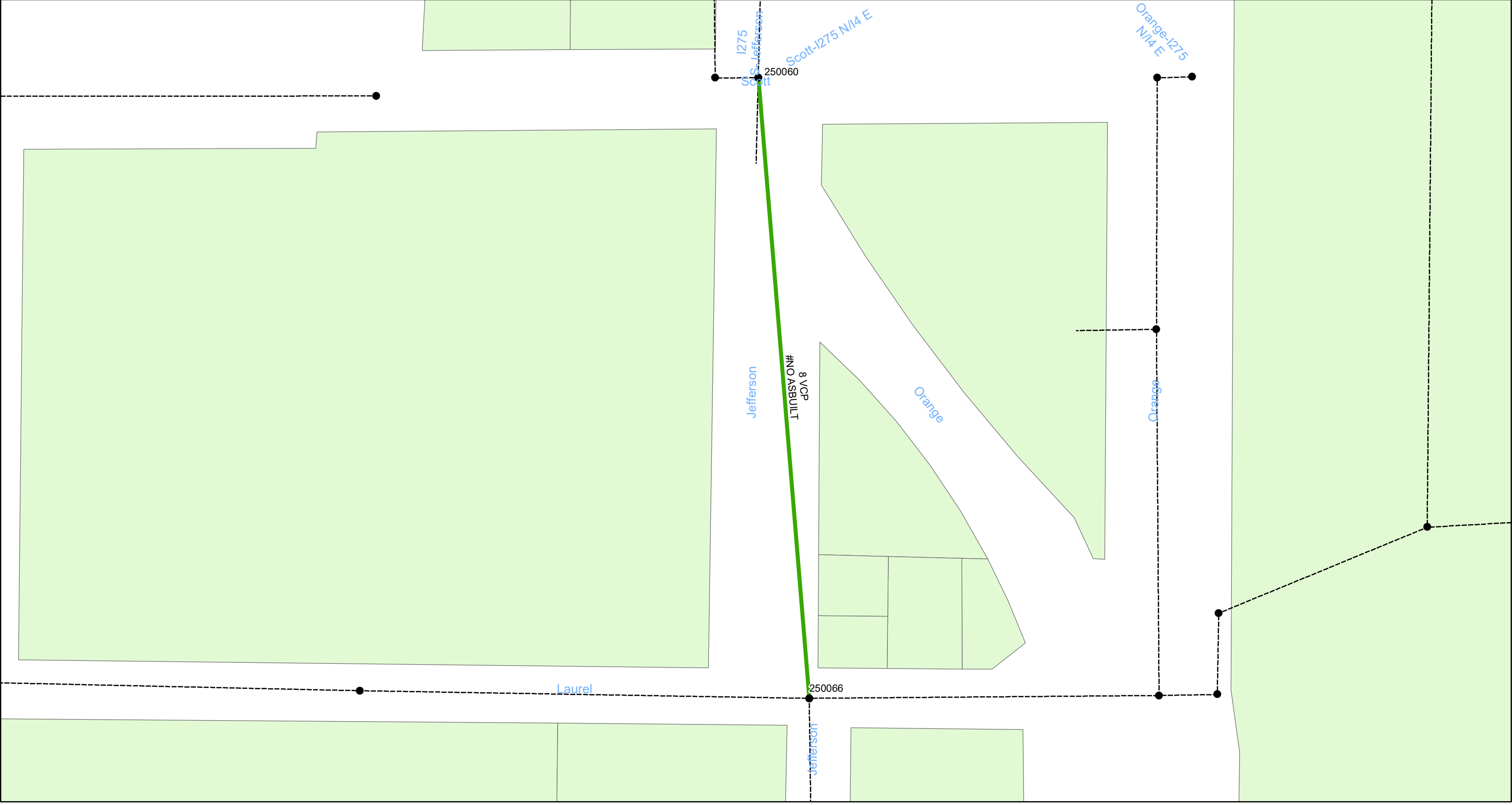


Ex Wastewater (no rehabilitation required)



**Sheet No.
24
of 72**





0 0.0175 0.035 0.07 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area

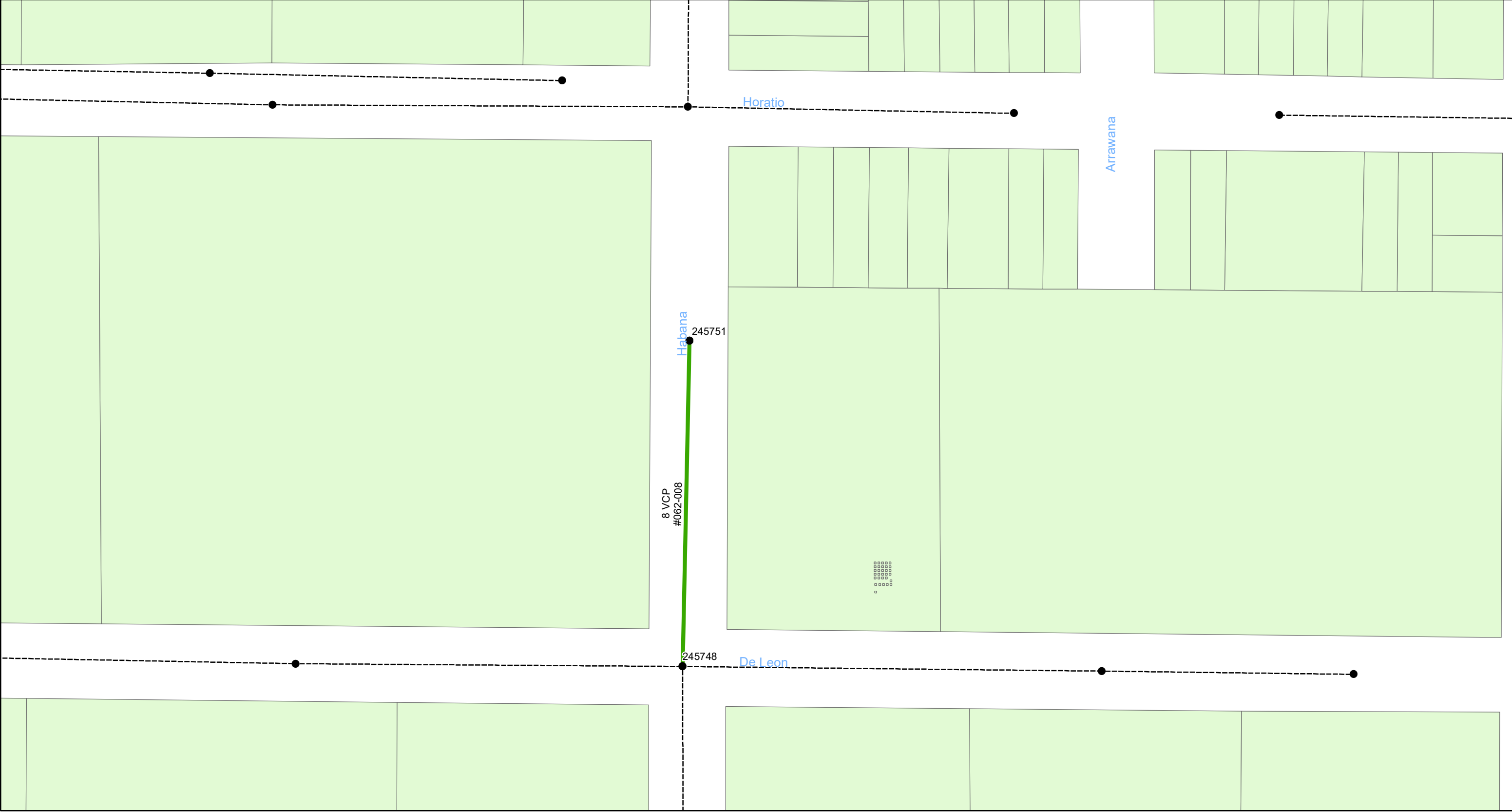


Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





0 0.0225 0.045 0.09 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area

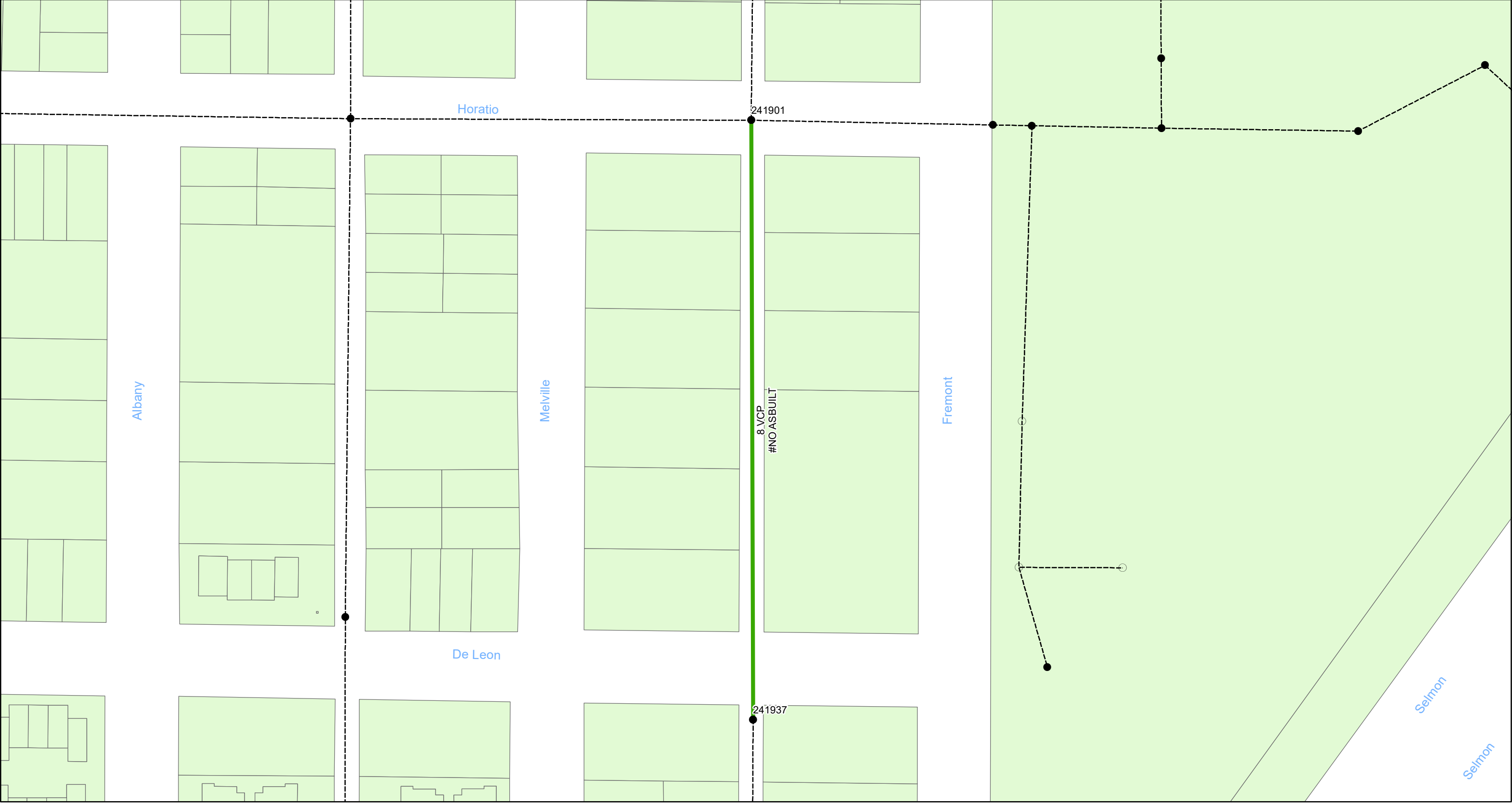


Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





0 0.025 0.05 0.1 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

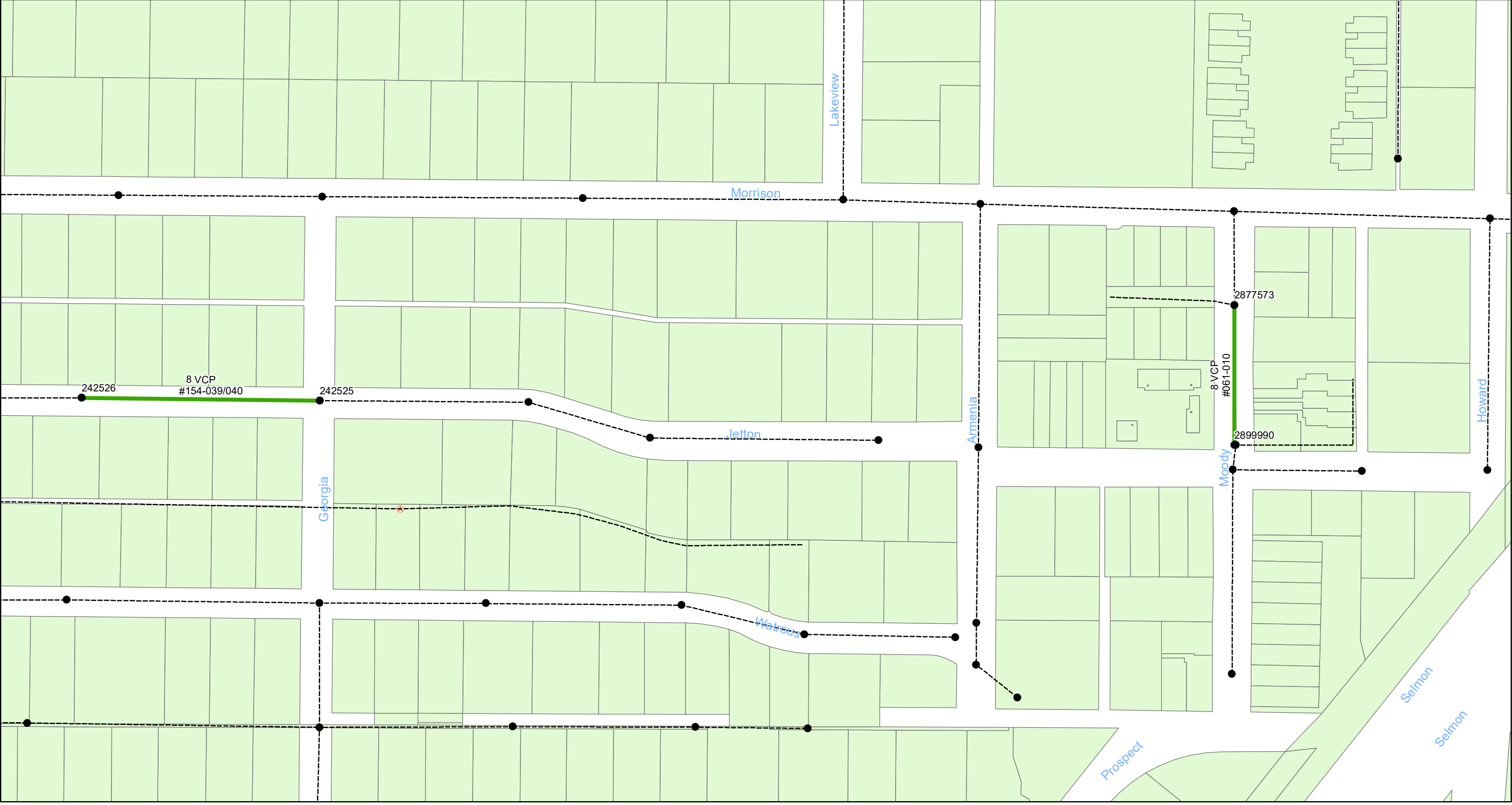
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- Manholes
- Lining Area
- Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





0 0.0375 0.075 0.15 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area

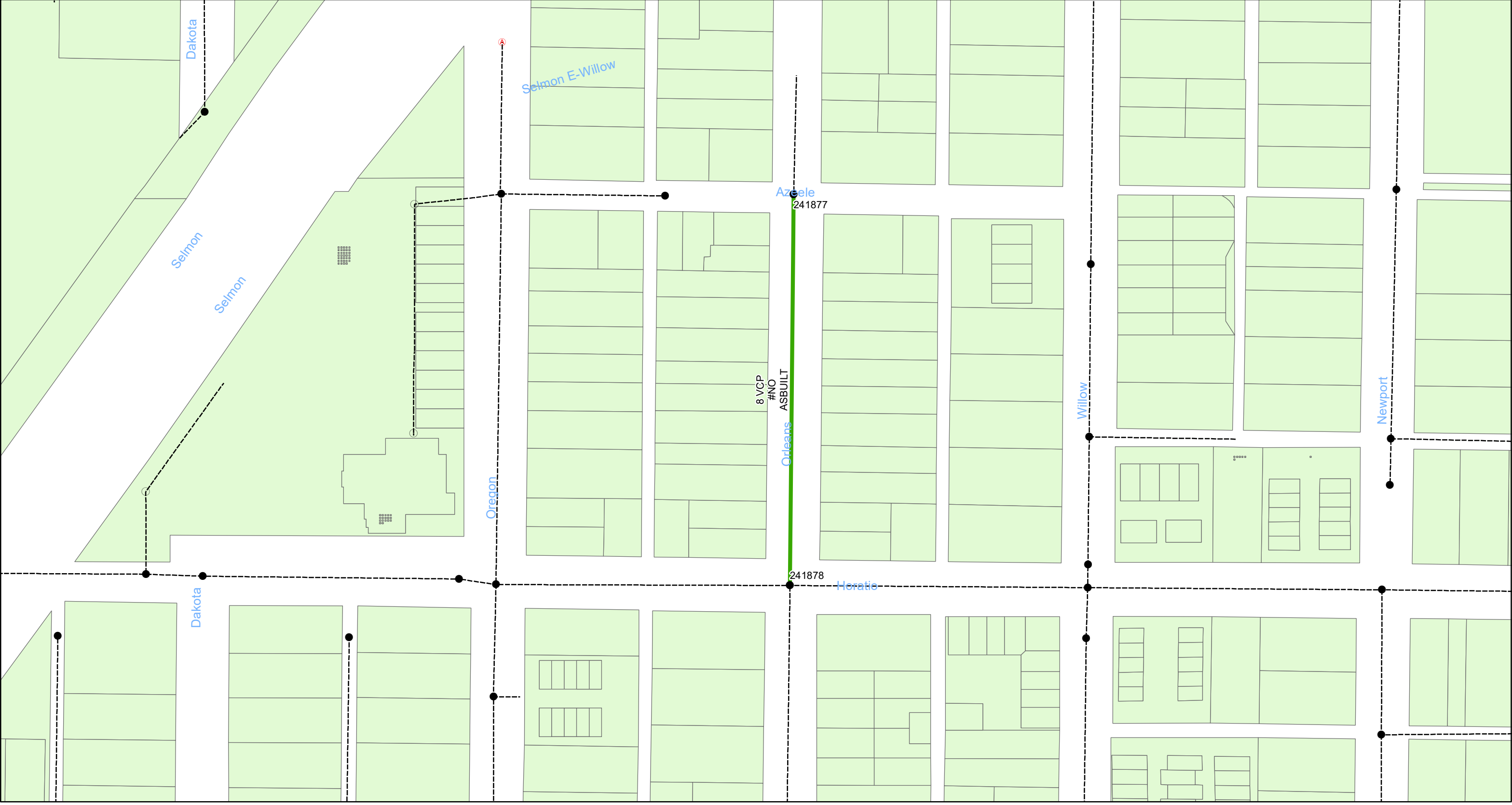


Ex Wastewater (no rehabilitation required)



**Sheet No.
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of 72**





0 0.0325 0.065 0.13 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

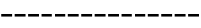
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Manholes



Lining Area

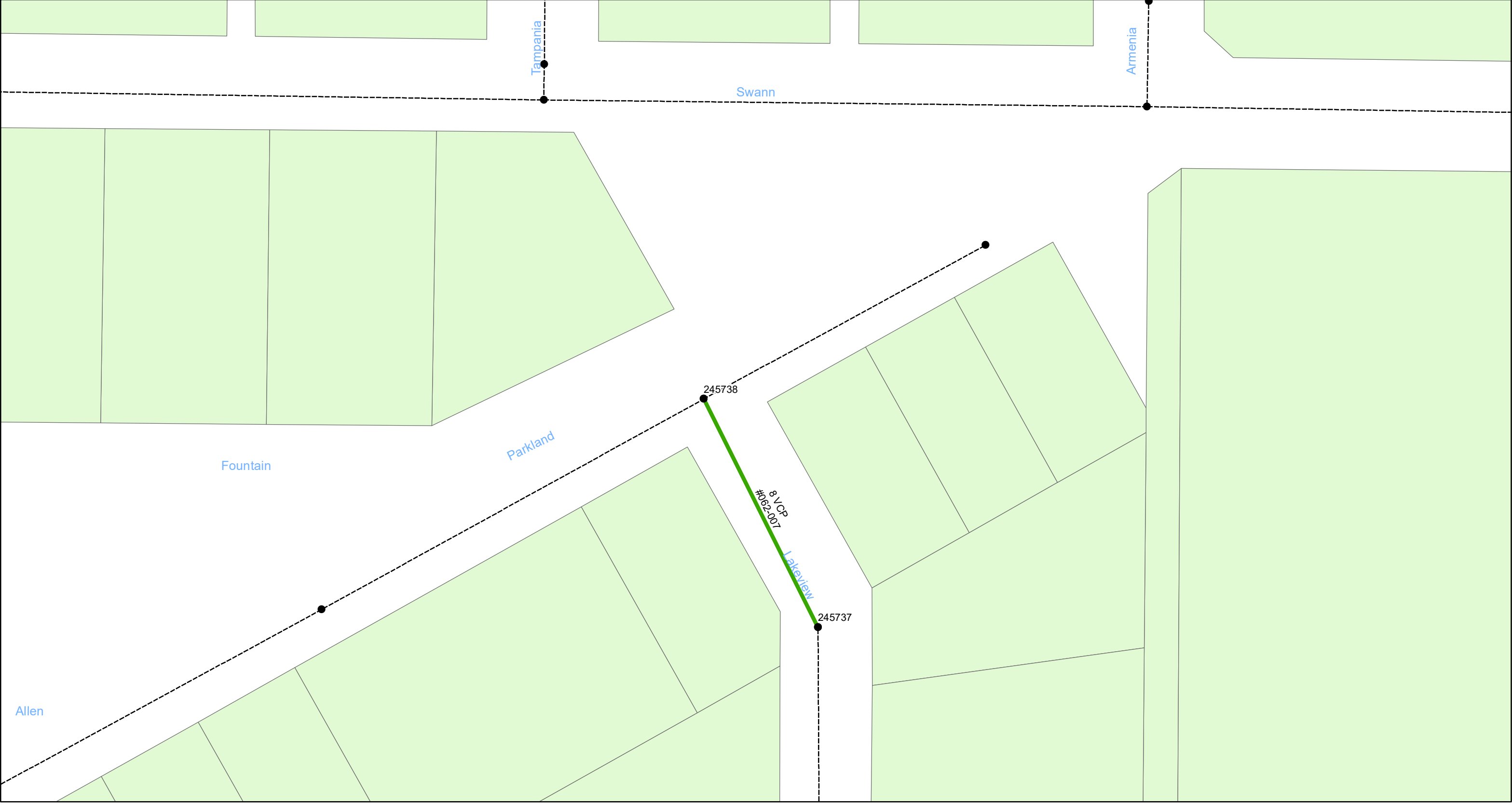


Ex Wastewater (no rehabilitation required)



**Sheet No.
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0 0.015 0.03 0.06 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area

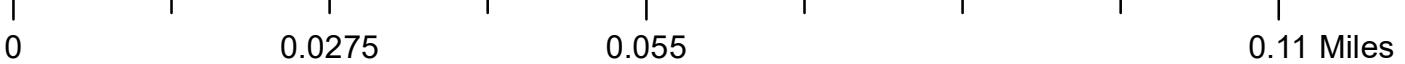
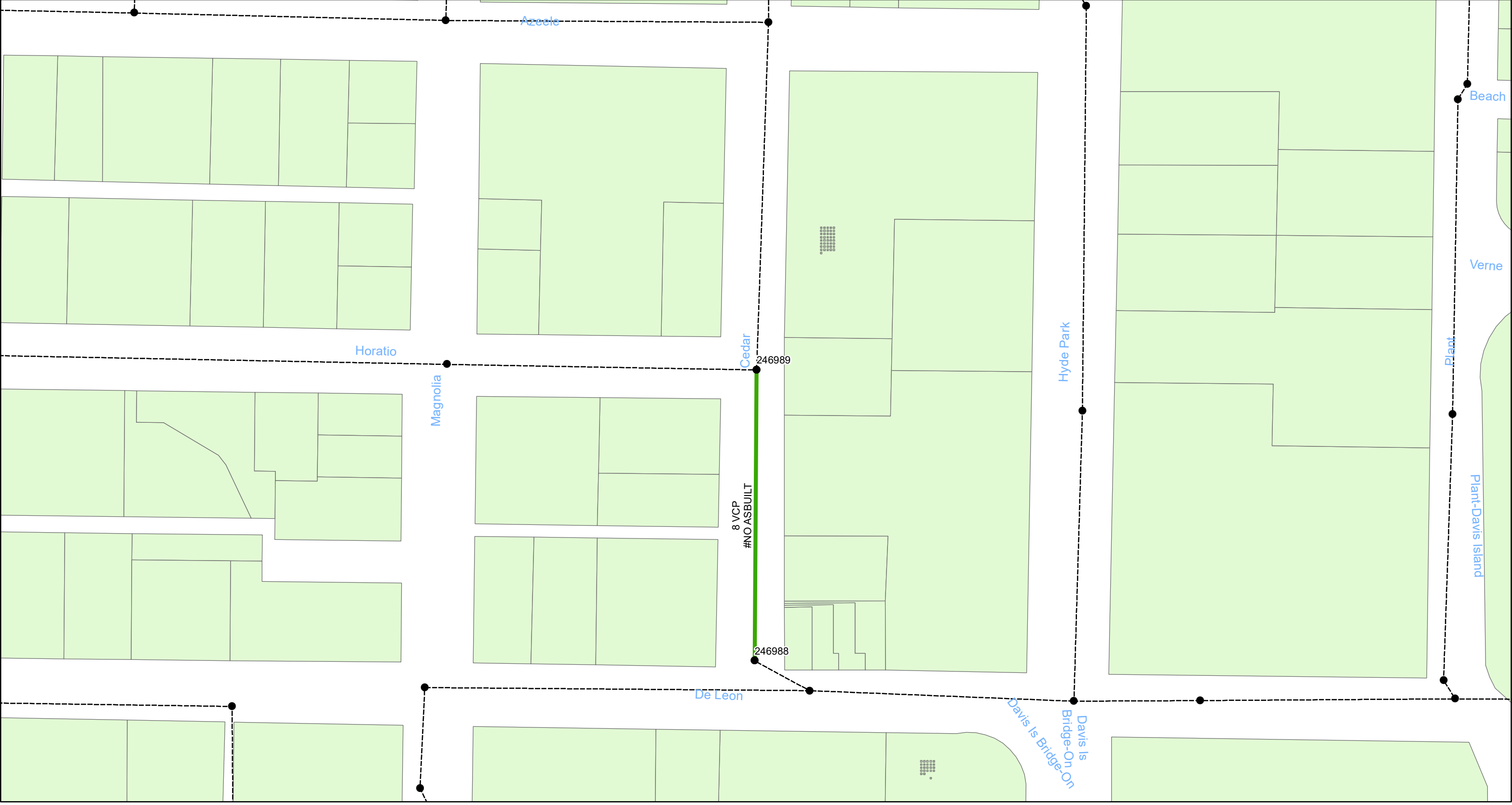


Ex Wastewater (no rehabilitation required)



**Sheet No.
30
of 72**





19-C-00050
FEMA Mitigation – Wastewater Gravity Sewer Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department

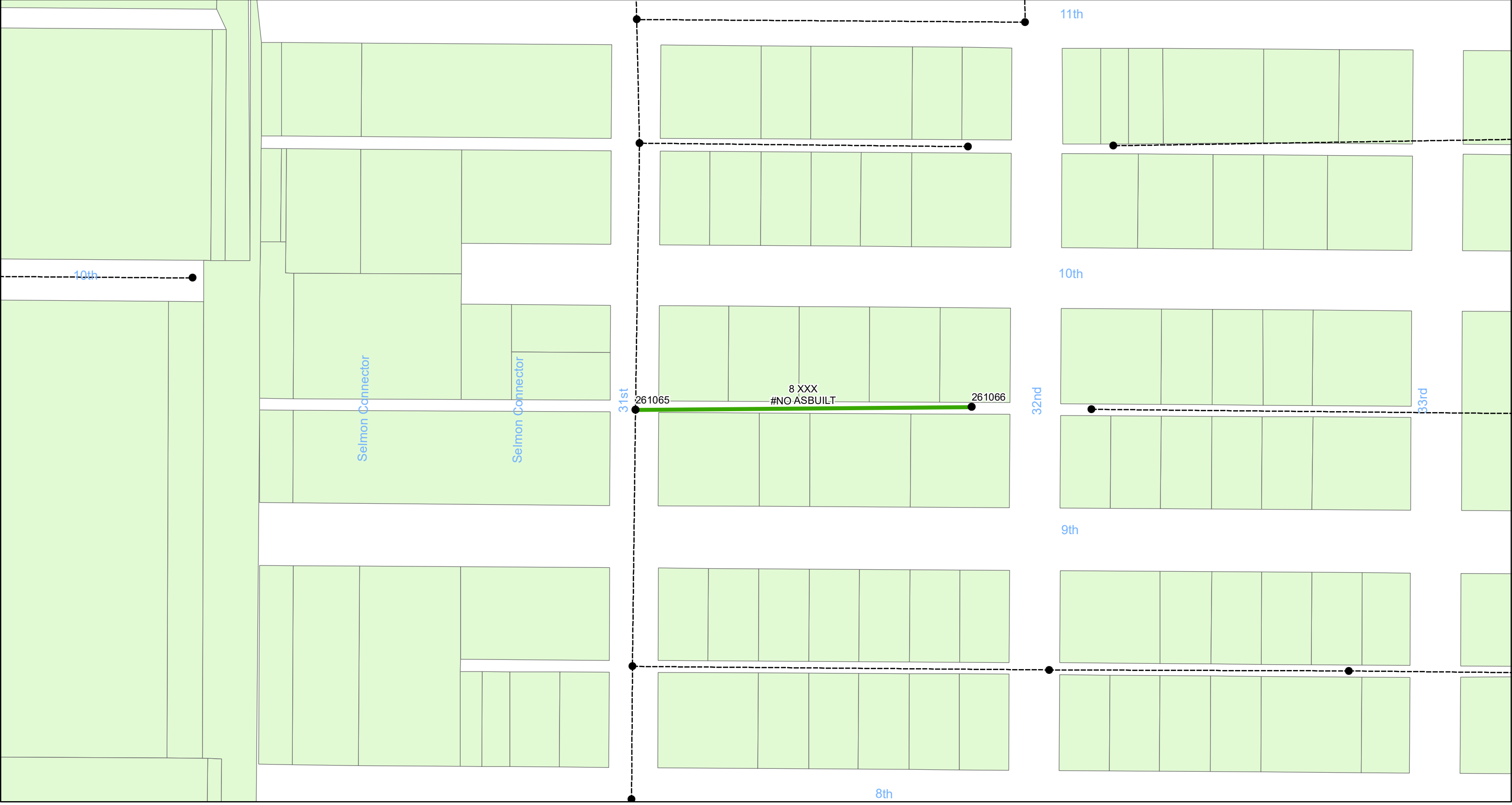
Legend

- Manholes
- Lining Area
- Ex Wastewater (no rehabilitation required)



Sheet No.
31
of 72





19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area



Ex Wastewater (no rehabilitation required)



**Sheet No.
32
of 72**





0 0.0225 0.045 0.09 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area

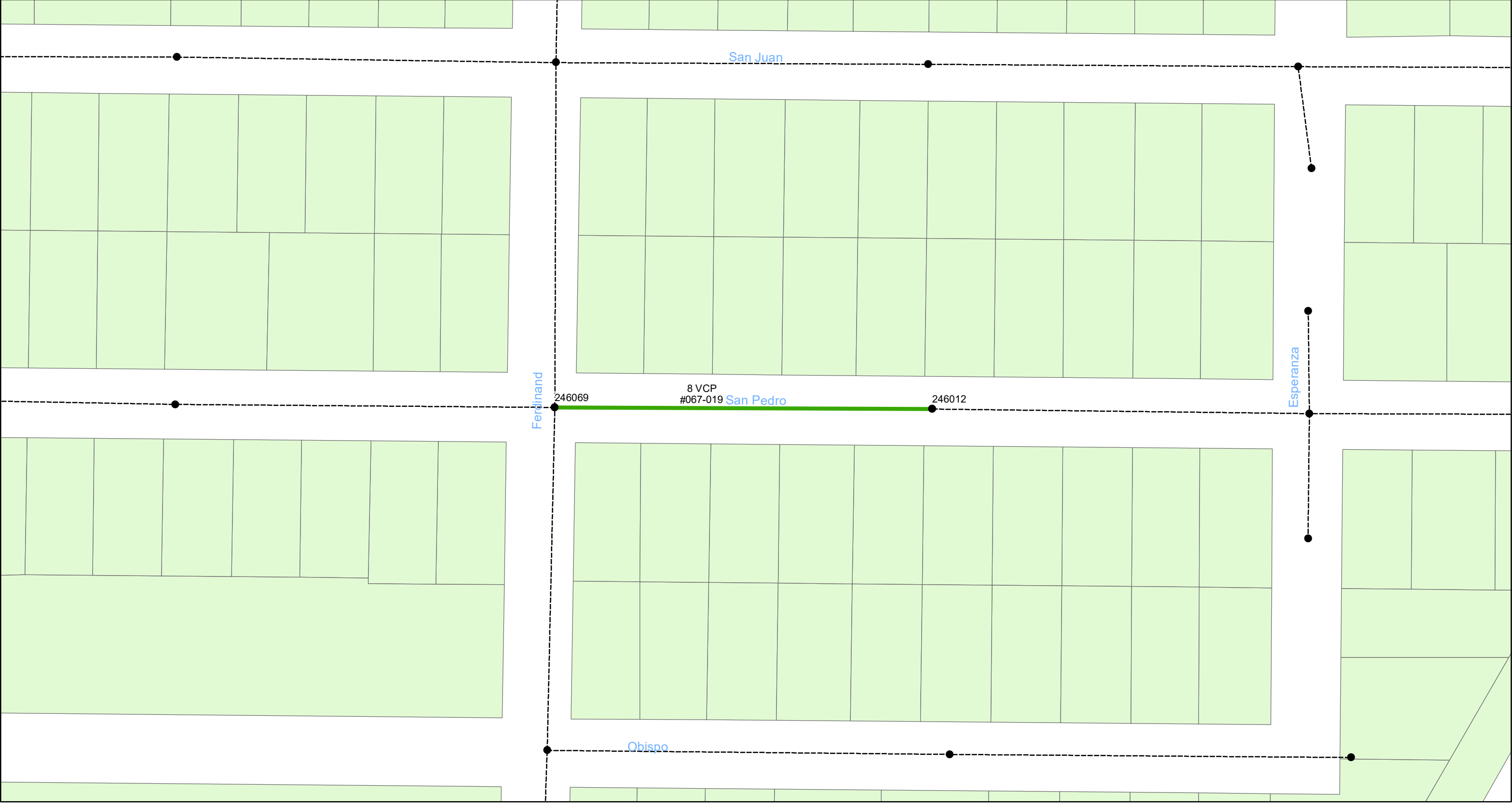


Ex Wastewater (no rehabilitation required)



**Sheet No.
33
of 72**





19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area

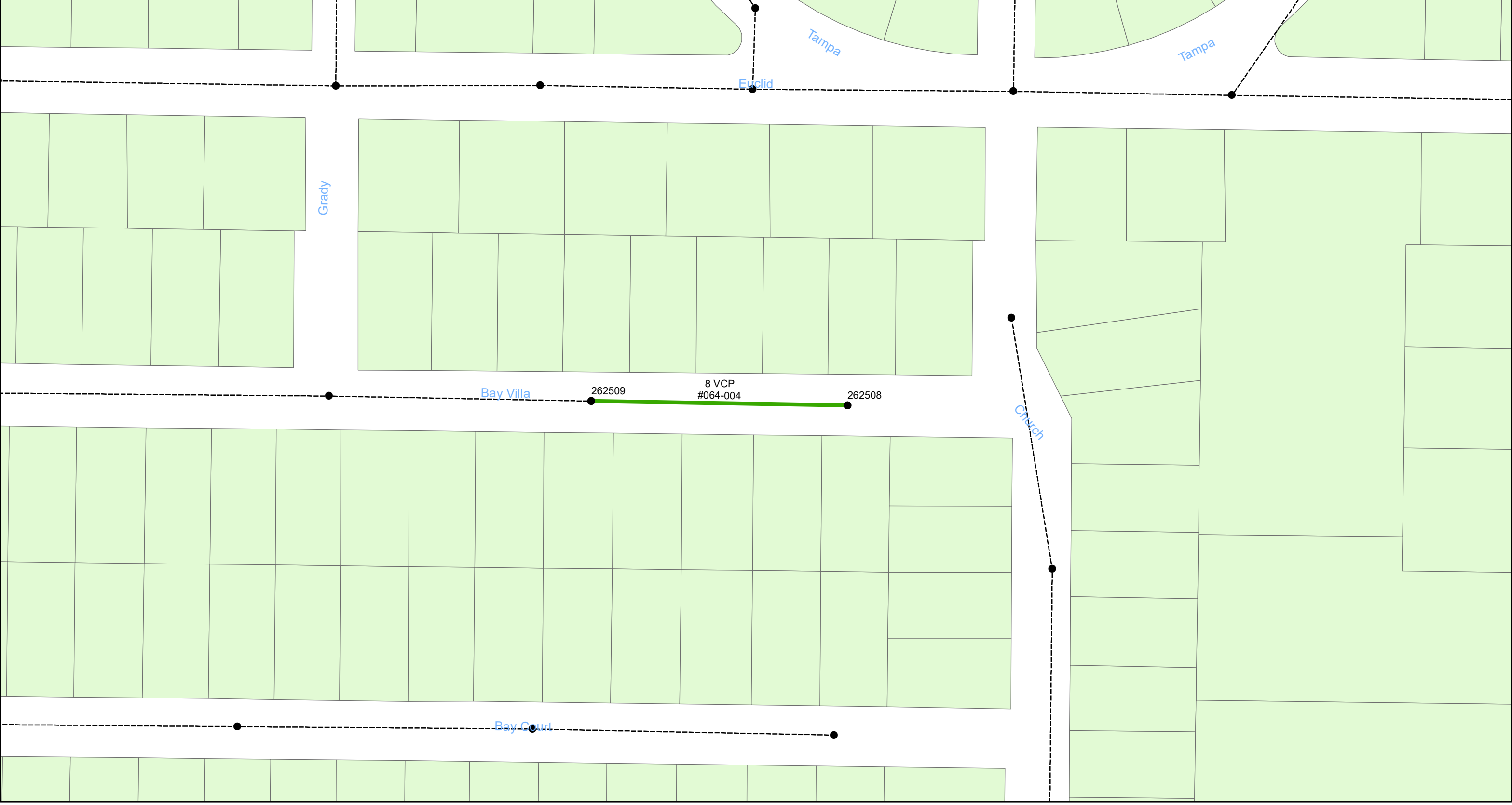


Ex Wastewater (no rehabilitation required)



**Sheet No.
34
of 72**





0 0.0275 0.055 0.11 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

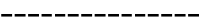
Legend



Manholes



Lining Area

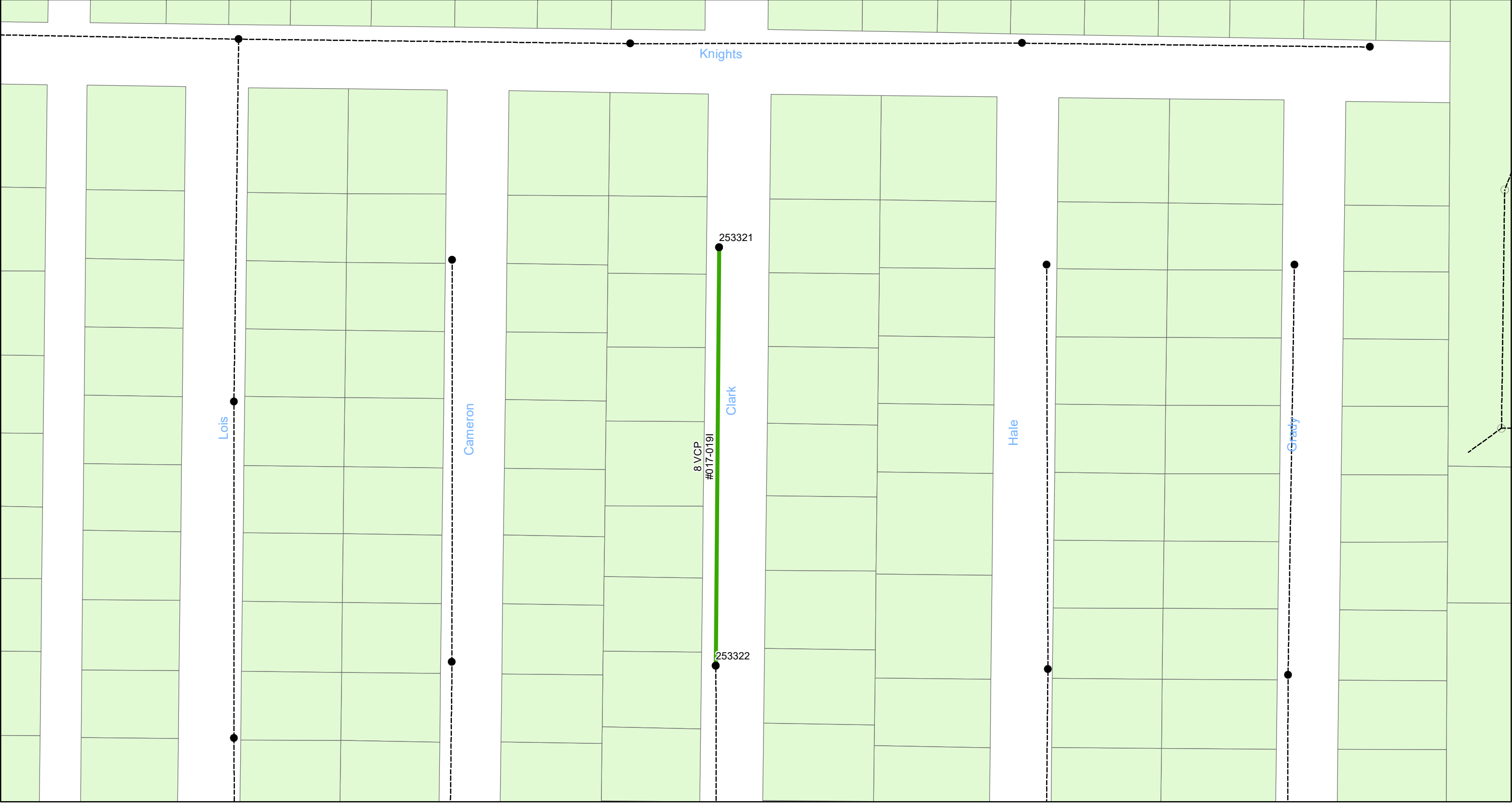


Ex Wastewater (no rehabilitation required)



Sheet No.
35
of 72





0 0.0275 0.055 0.11 Miles

19-C-00050
**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)**
City of Tampa Wastewater Department

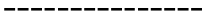
Legend



Manholes



Lining Area

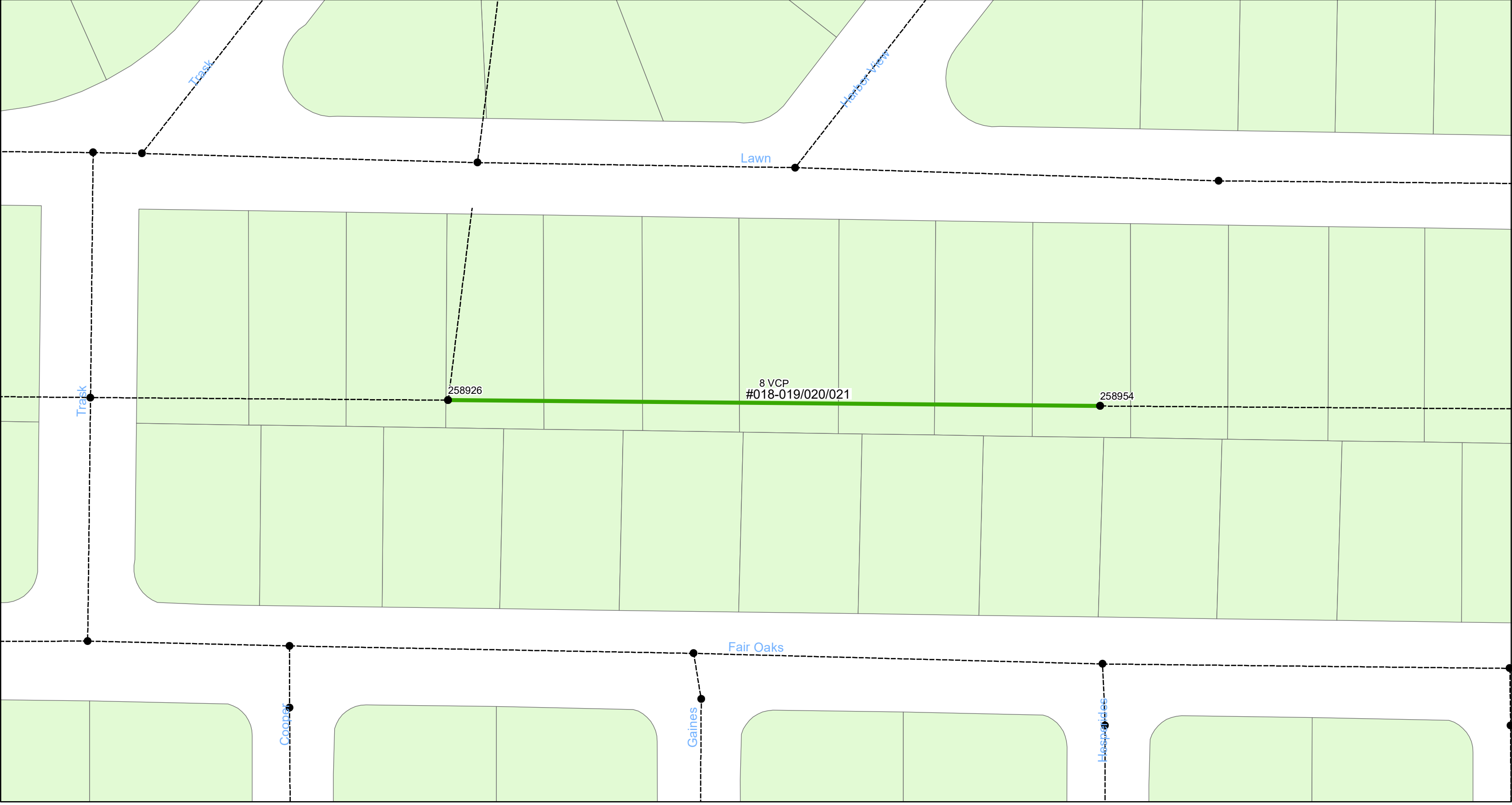


Ex Wastewater (no rehabilitation required)



Sheet No.
36
of 72





0 0.0175 0.035 0.07 Miles

19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

Legend



Manholes



Lining Area

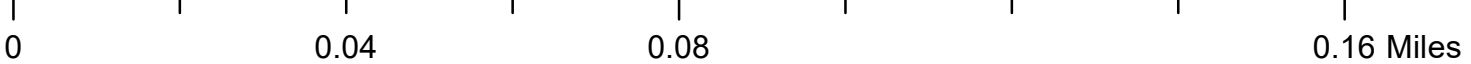
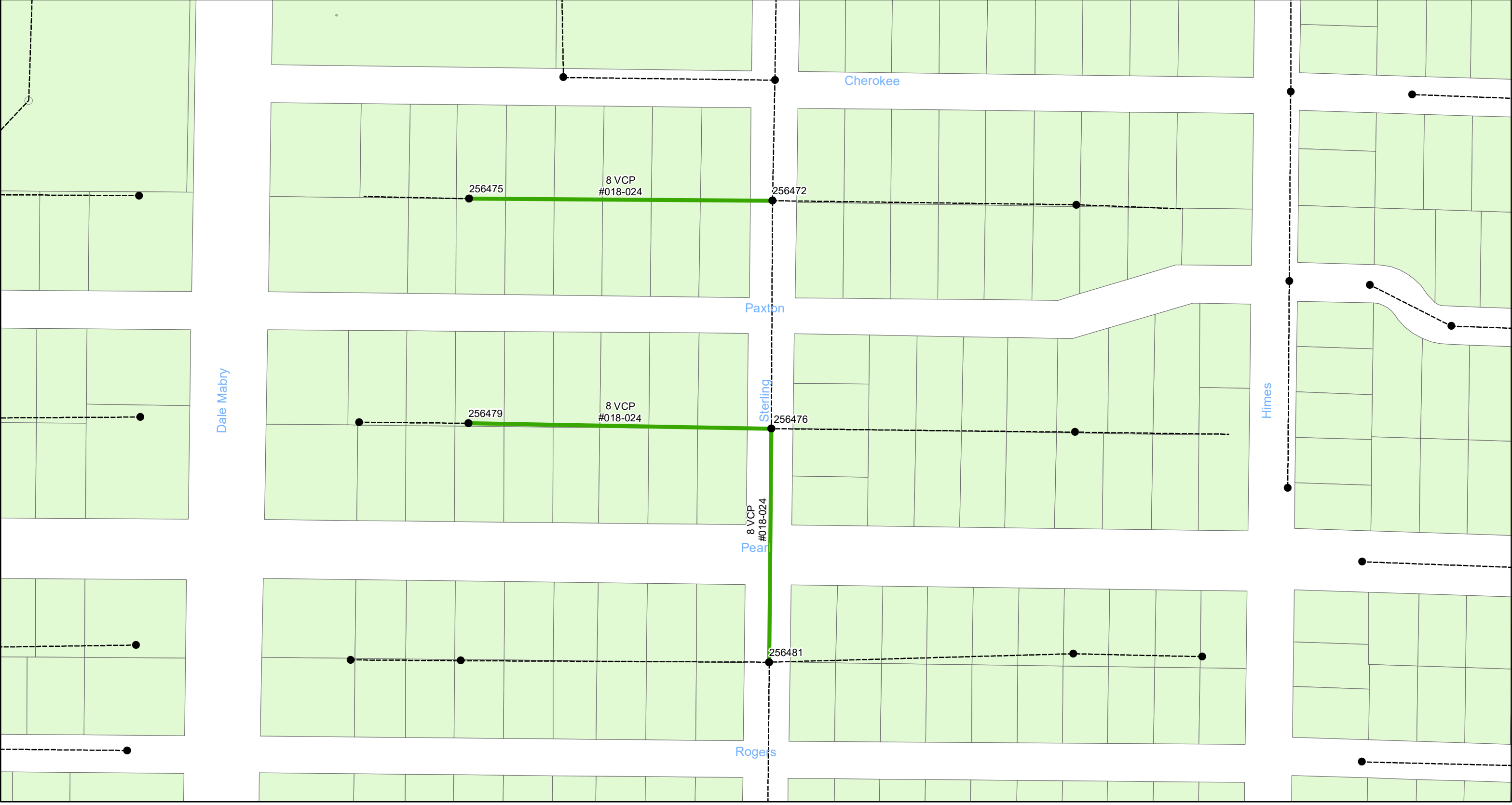


Ex Wastewater (no rehabilitation required)



**Sheet No.
37
of 72**





19-C-00050
**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)**
City of Tampa Wastewater Department

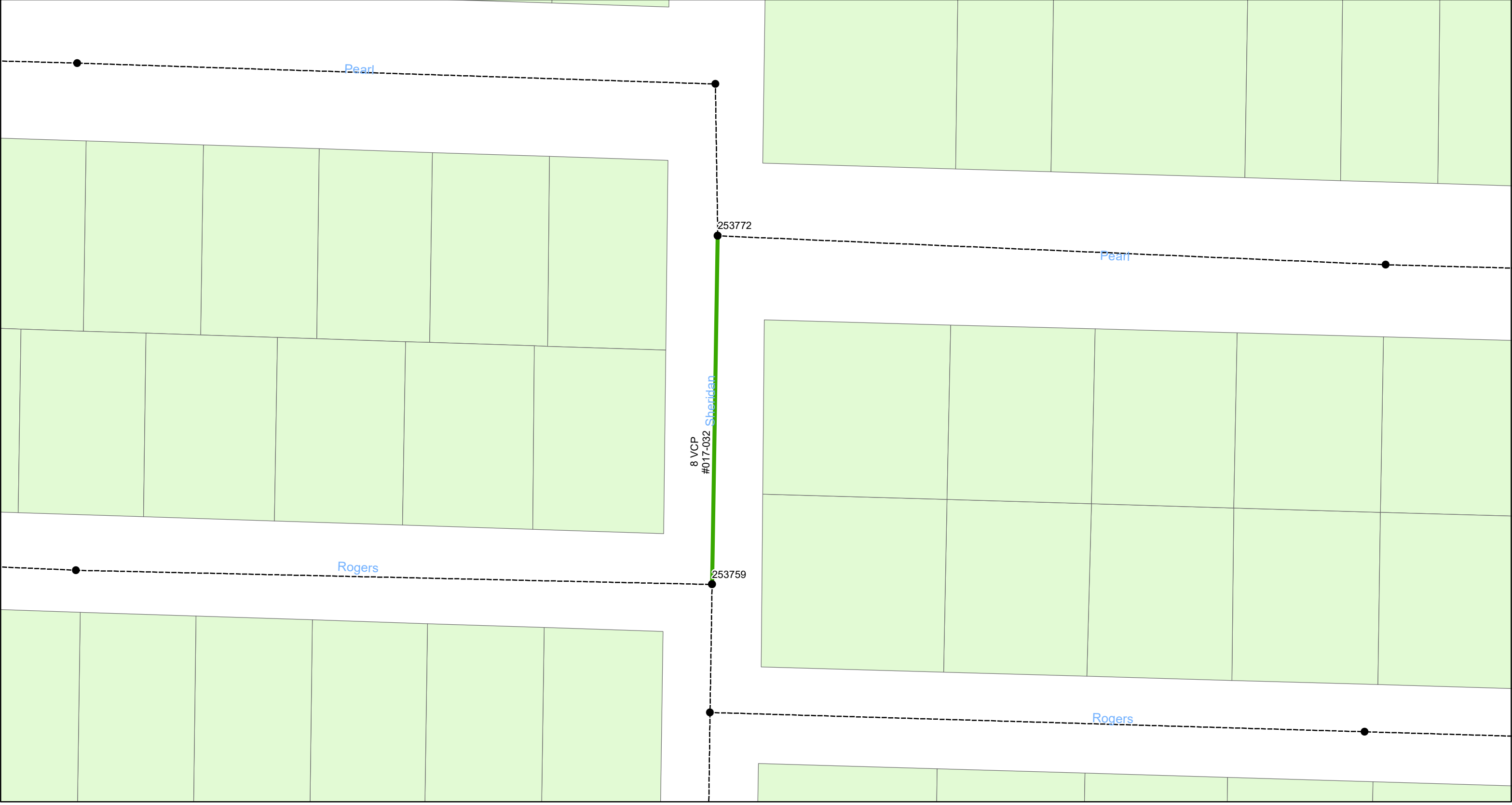
Legend

- Manholes
- Lining Area
- Ex Wastewater (no rehabilitation required)



Sheet No.
38
of 72





0 0.015 0.03 0.06 Miles

19-C-00050
**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)**
City of Tampa Wastewater Department

Legend



Manholes



Lining Area

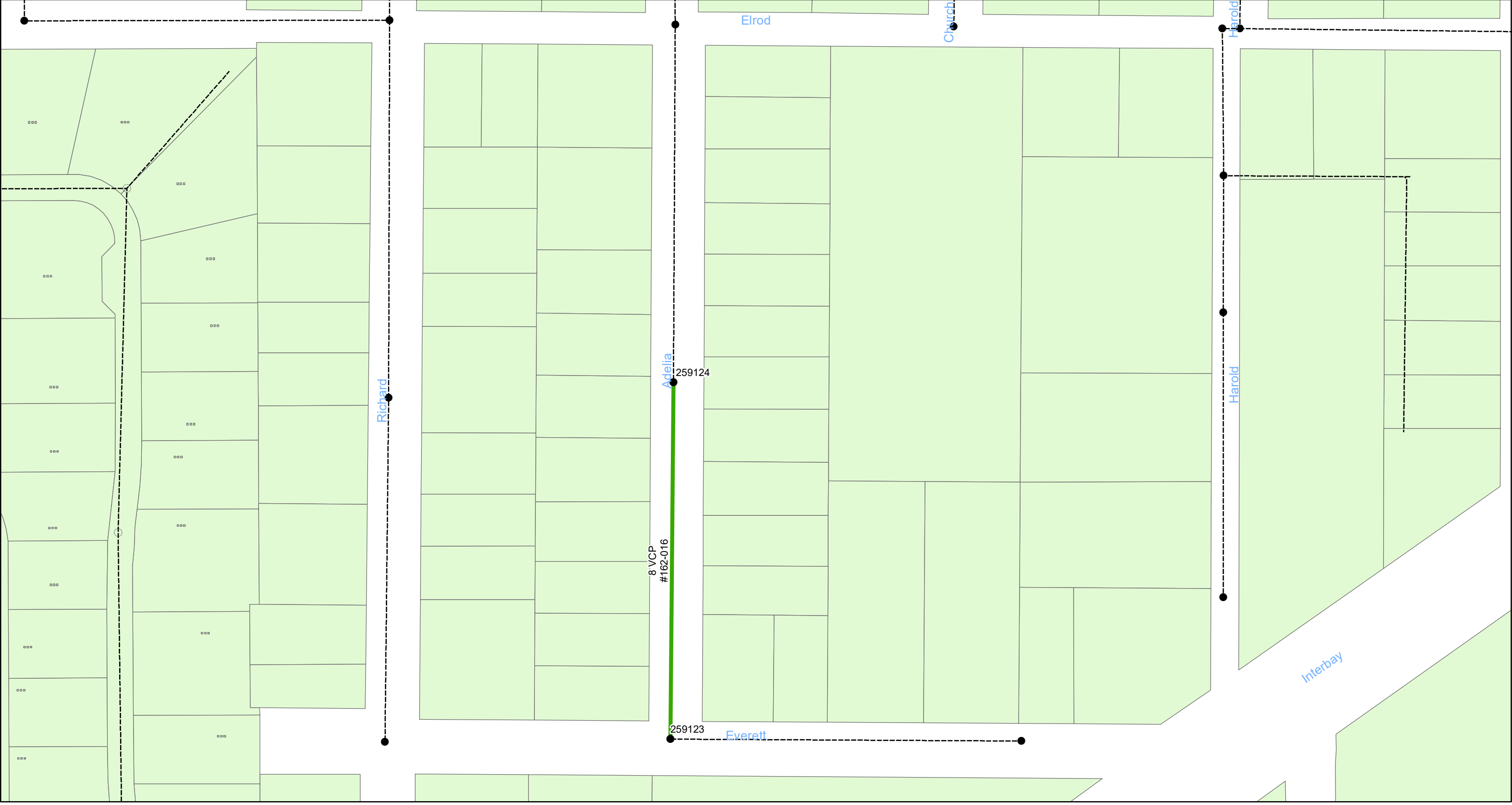


Ex Wastewater (no rehabilitation required)



Sheet No.
39
of 72





19-C-00050

**FEMA Mitigation – Wastewater Gravity Sewer
Rehabilitation by Cured-In-Place Pipe (CIPP)
City of Tampa Wastewater Department**

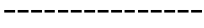
Legend



Manholes



Lining Area



Ex Wastewater (no rehabilitation required)



**Sheet No.
40
of 72**



EXIST. SAN. MANHOLE
TOP EL. 40.03
INV. (S) 32.28
INV. (E) 24.84
INV. (W) 24.82

STA. 0+00
MH A1
CONSTRUCT SAN. MANHOLE
OVER EXIST. 27" PVC

EXIST. 27" PVC
SAN. SEWER MAIN

EXIST. SAN. MANHOLE
TOP EL. 40.37
INV. (E) 25.68
INV. (W) 25.63

TAMPA PALMS BLVD.

ASPHALT PAVEMENT

CATLIN DRIVE
STREET "A"

KEELY DRIVE
STREET "B"

LINE "A"
SEE SHEET 19
13
STA. 12+08
MH A10

STA. 10+43
MH A9

STA. 8+03
MH A7

STA. 6+95
MH A6

STA. 5+17
MH A4

STA. 3+64
MH A3

STA. 2+26
MH A2

STA. 9+11
MH A8

LINE "A"

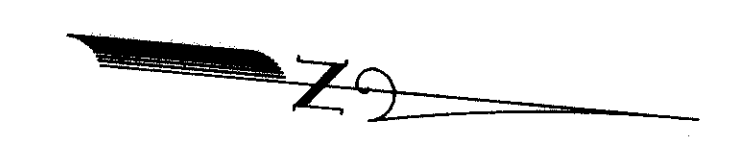
BENCHMARK:
SQUARE CUT ON TOP OF NORTHEAST
CORNER OF GRATE TOP INLET 110'±
NORTH OF CENTERLINE OF 9TH
EXTENSION AND 45'± WESTERLY
OF CENTERLINE OF COMMERCE PARK
BLVD. N.G.V.D. 1929
ELEV. = 39.86

NOTES:

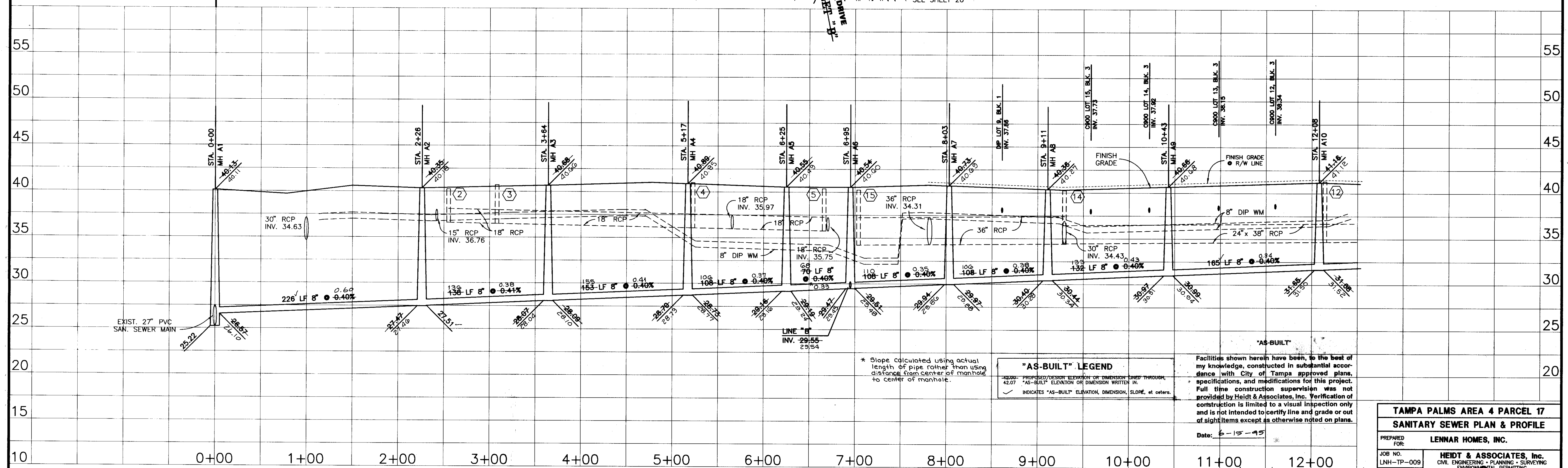
- ALL SANITARY SEWER PIPE SHALL BE PVC SDR-35
CLASS "C" BEDDING UNLESS OTHERWISE NOTED

SM - DENOTES SANITARY SEWER MAIN
WM - DENOTES WATER MAIN
FM - DENOTES FORCE MAIN
RCP - DENOTES DRAINAGE SEWER

C900 LOT "XX" BLK. "XX" - DENOTES SERVICE LATERAL INVERT
INV. "XX" - RIGHT-OF-WAY LINE WHERE A
POSSIBLE CONFLICT MAY OCCUR



SCALE: 1" = 5' VERTICAL
1" = 50' HORIZONTAL



* Slope calculated using actual
length of pipe rather than using
distance from center of manhole
to center of manhole.

"AS-BUILT" LEGEND
- - - PROPOSED/DESIGN ELEVATION OR DIMENSION LINES THROUGH;
42.07' "AS-BUILT" ELEVATION OR DIMENSION WRITTEN IN;
✓ INDICATES "AS-BUILT" ELEVATION, DIMENSION, SLOPE, etc. as noted.

Facilities shown herein have been, to the best of
my knowledge, constructed in substantial accordance
with City of Tampa approved plans,
specifications, and modifications for this project.
Full time construction supervision was not
provided by Heidt & Associates, Inc. Verification of
construction is limited to a visual inspection only
and is not intended to certify line and grade or out
of sight items except as otherwise noted on plans.

Date: 6-15-95

DATE	DESCRIPTION	BY	FILE
6-15-95	AS-BUILT Add Street Names	CD	
9-15-95	AS-BUILT	CD	
4-12-95	AS-BUILT	CD	

TAMPA PALMS AREA 4 PARCEL 17
SANITARY SEWER PLAN & PROFILE

PREPARED FOR:
LENNAR HOMES, INC.

JOB NO.
LNH-TP-009

DESIGN
DUNCAN

DRAWN
DUNCAN

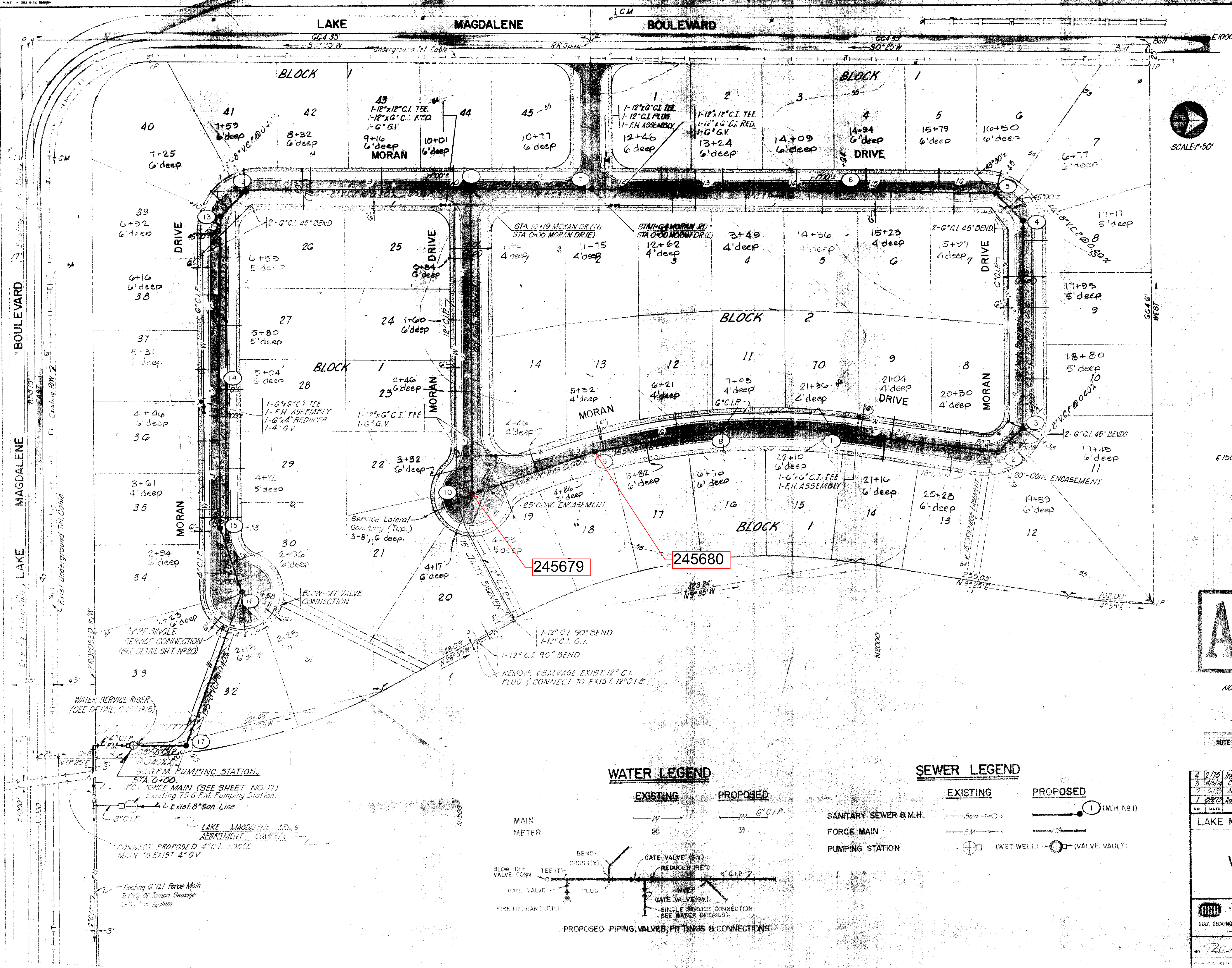
HEIDT & ASSOCIATES, Inc.
CIVIL ENGINEERING - PLANNING - SURVEYING
ENVIRONMENTAL PERMITTING
LANDSCAPE ARCHITECTURE

2212 Swann Avenue
TAMPA, FLORIDA 33606
Phone: 813/253-5311
Telex: 813/442-8536
Fax: 813/842-2401
Fax: 813/253-2478

FLORIDA PROFESSIONAL ENGINEER NO. 37278

SHEET 18 OF 23 SHEETS

281-39 281-39



- POTABLE WATER NOTES:**
1. All water mains shall have a minimum cover of 30" below finished grade, shall be located as shown on the drawings, and shall be installed in conformance to the "WATER STANDARDS" drawing.
 2. All cast iron pipe to be furnished and installed shall be class 22, 21/45 iron, designed for a working pressure of 150 psi and trench condition "B", all pipe, fittings, specials, and valves shall conform to the specifications.
 3. All fittings for water mains 4" and larger shall be cast iron, short body, with mechanical or push on joints in conformance to the specifications.
 4. All cold water connections shall be installed in conformance to the "WATER STANDARDS" drawing; the actual locations of all service connections shall be determined in the field.

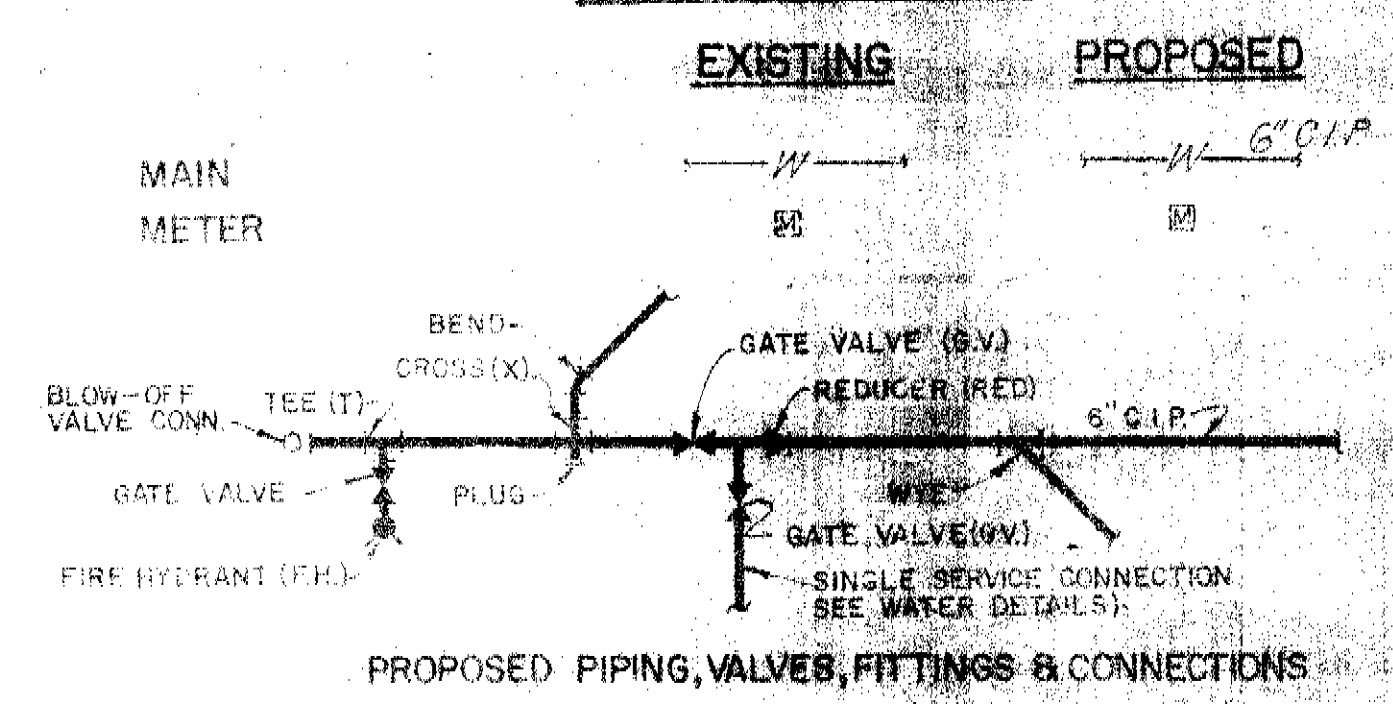
- SANITARY SEWER NOTES:**
1. All main lines and individual service connections unless otherwise shown, shall be clay sewer pipe with premolded joints, extra strength, in conformance to the specifications; termination of service connections shall be installed as shown on the "SANITARY SEWER STANDARDS" drawing.
 2. Special pipe foundations, if required shall be determined in the field; the type foundation required shall be as directed by the engineer.
 3. All service laterals are to be installed in conformance to the "SANITARY SEWER STANDARDS" drawing.
 4. Top of manhole elevations given on "SANITARY PROFILES" drawings are approximate; final manhole frame & cover adjustment shall be at finish grade.
 5. A minimum vertical clearance of 18" shall be maintained between water and sewer lines where they cross, 10' minimum horizontal clearance.

AS
2/24/75

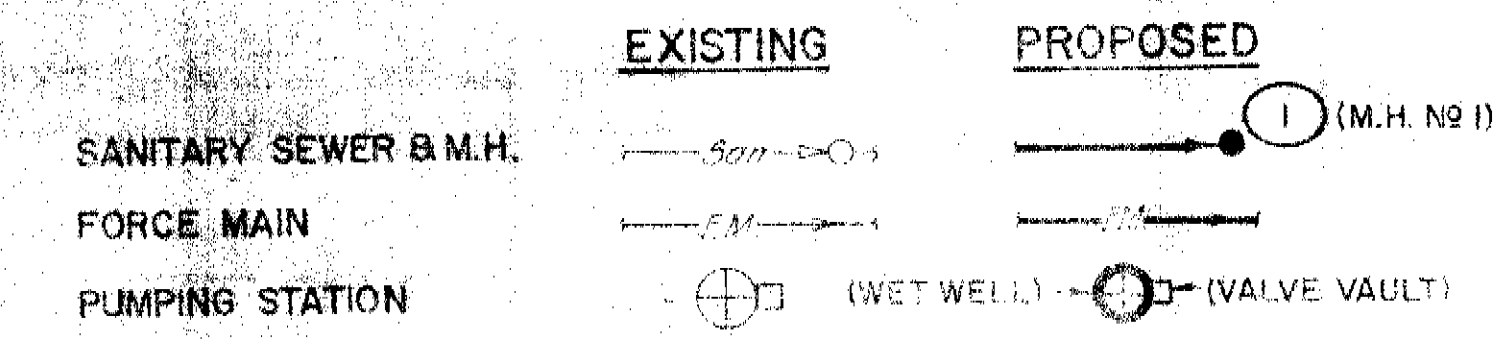
NOTE: SIDEWALK NOT INCLUDED

NOTE: For GENERAL NOTES and LEGEND see DRAWING NO. 2.

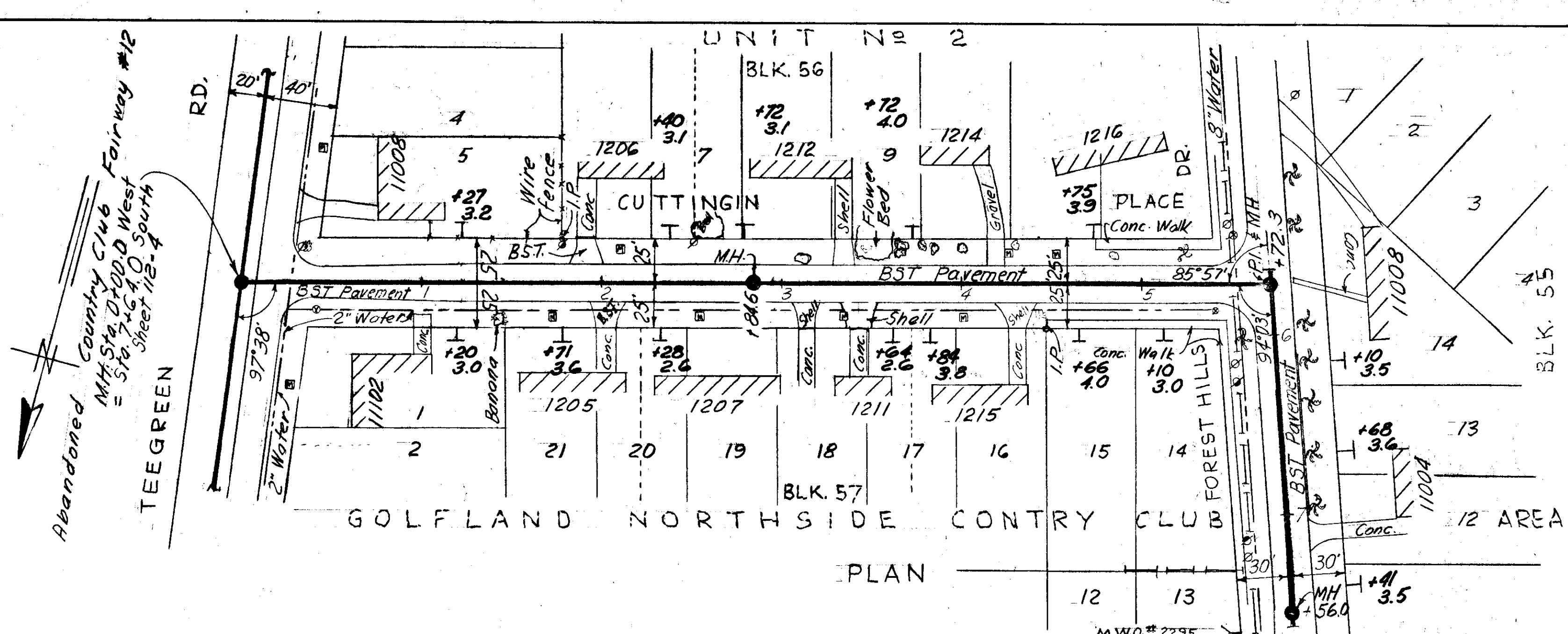
WATER LEGEND

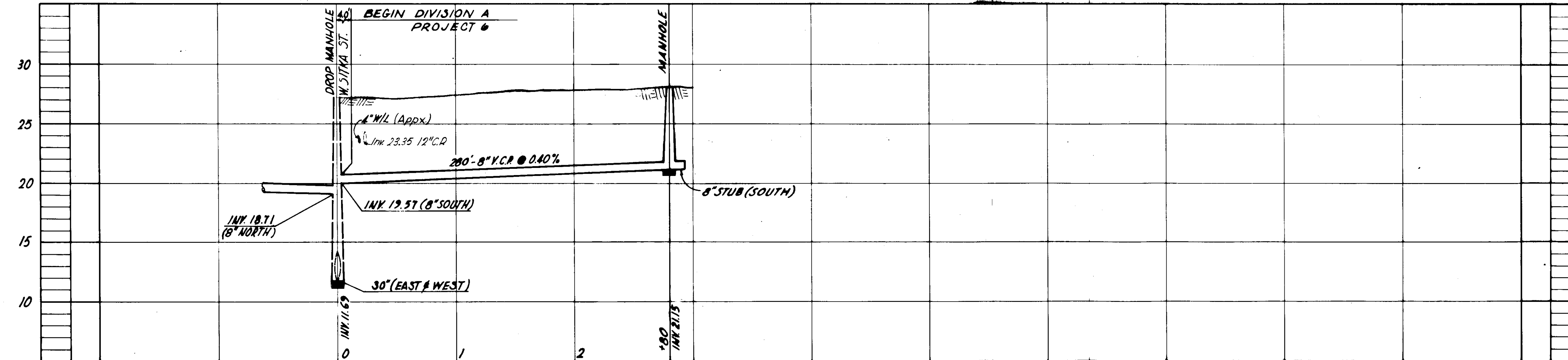
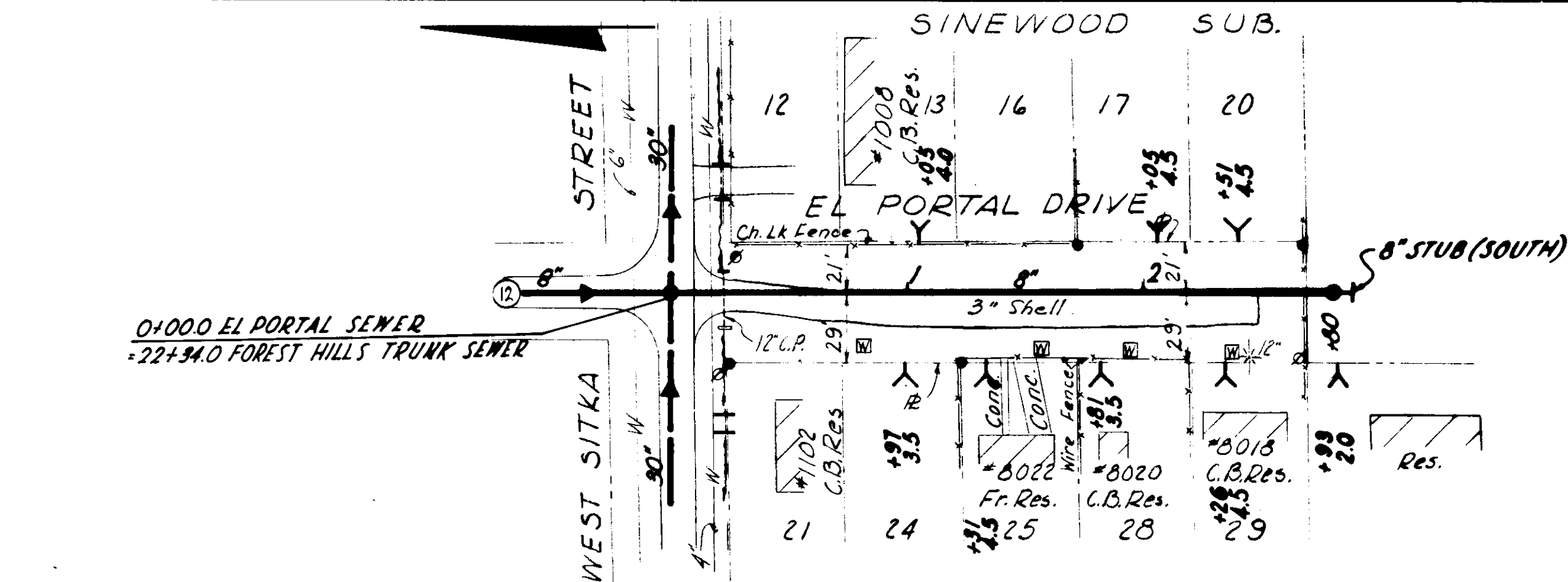
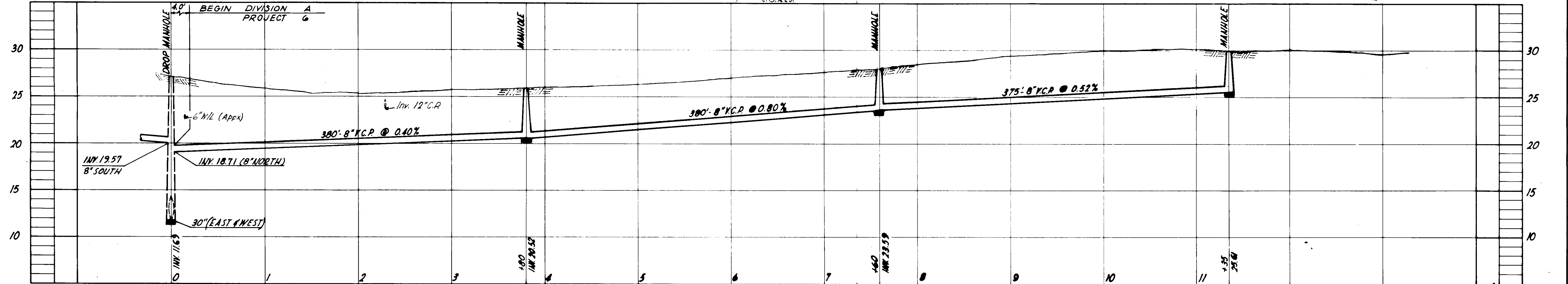
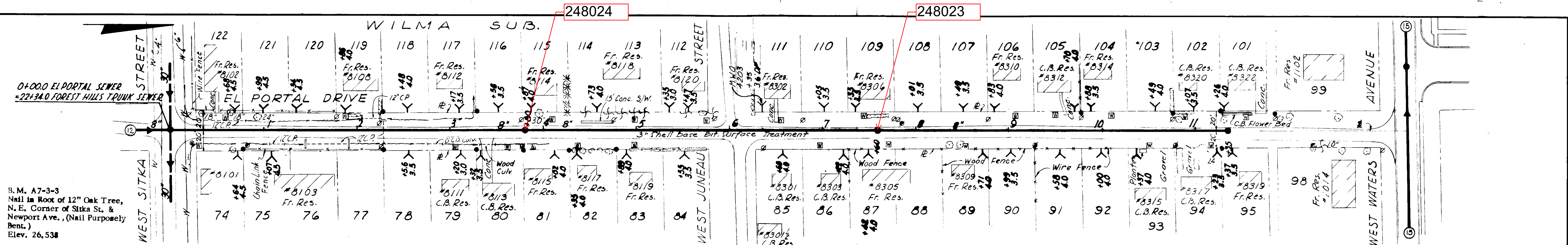


SEWER LEGEND



4/2/75	Indicate San. Service Lateral, City Pumping Station, C.I.F. JMS	DATE	LAKE MAGDALENE (AMPS) STATES - SECT. NO. 2
3/4/75	Changed 2" G.V. to 4" G.V.	DATE	LAKE MAGDALENE (AMPS) STATES - SECT. NO. 2
2/6/75	ADD Street Name, 1st & 2nd St. to the plan.	DATE	LAKE MAGDALENE (AMPS) STATES - SECT. NO. 2
1/24/75	ADD 5 Manholes, 1st & 2nd St. to the plan.	DATE	LAKE MAGDALENE (AMPS) STATES - SECT. NO. 2
NO	DATE	DATE	LAKE MAGDALENE (AMPS) STATES - SECT. NO. 2
WATER & SANITARY PLAN			
ENGINEERS & PLANNERS	DESIGNED BY	PEATY	DRAWING NO.
DAZ, SECKINGER & ASSOCIATES, INC.	DESIGNED BY	WAKEMAN	8
BY: Robert D. Driver	DESIGNED BY	DRIVEN	
PL. & P. REG. NO. 4722	DESIGNED BY		





AS-BUILT PLAN
REVISED TO SHOW ACTUAL CONDITIONS
ACCORDING TO CONSTRUCTION RECORDS
AS OF JUN 14 1988 PER [Signature]

CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRAM
SEWER IMPROVEMENTS

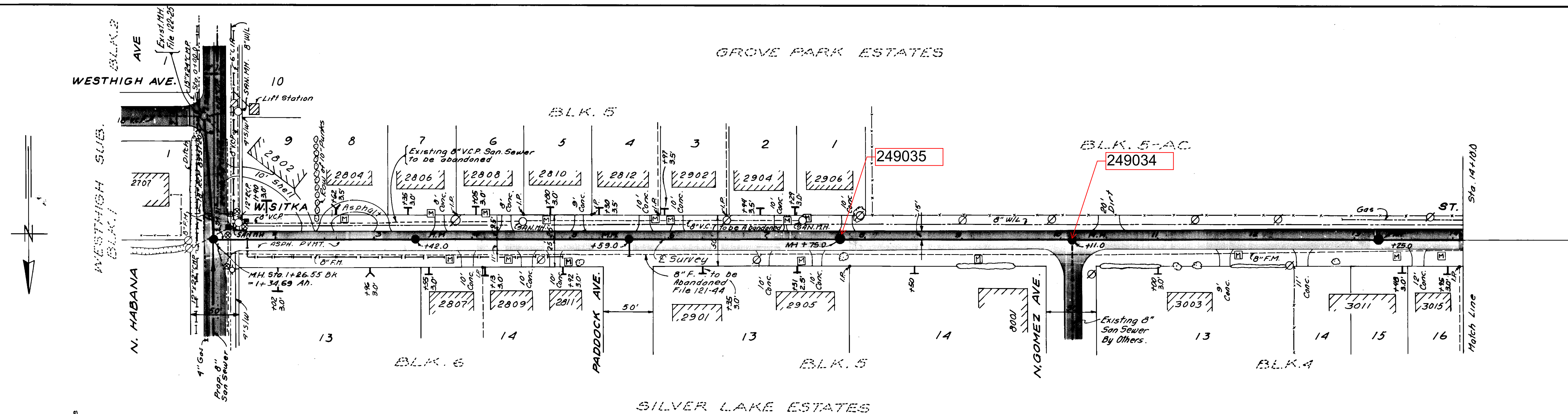
EL PORTAL DR.-W.SITKA ST. NORTH
EL PORTAL DR.-W.SITKA ST. SOUTH

J.E. GREINER COMPANY - WIEDEMAN & SINGLETON ENGINEERS
CONSULTING ENGINEERS
TAMPA, FLORIDA
ASSOCIATE ENGINEERS
ATLANTA, GEORGIA

DES. [Signature]
DWN. [Signature]
CRD. [Signature]
SCALE 1"=20'
DATE MAY-83

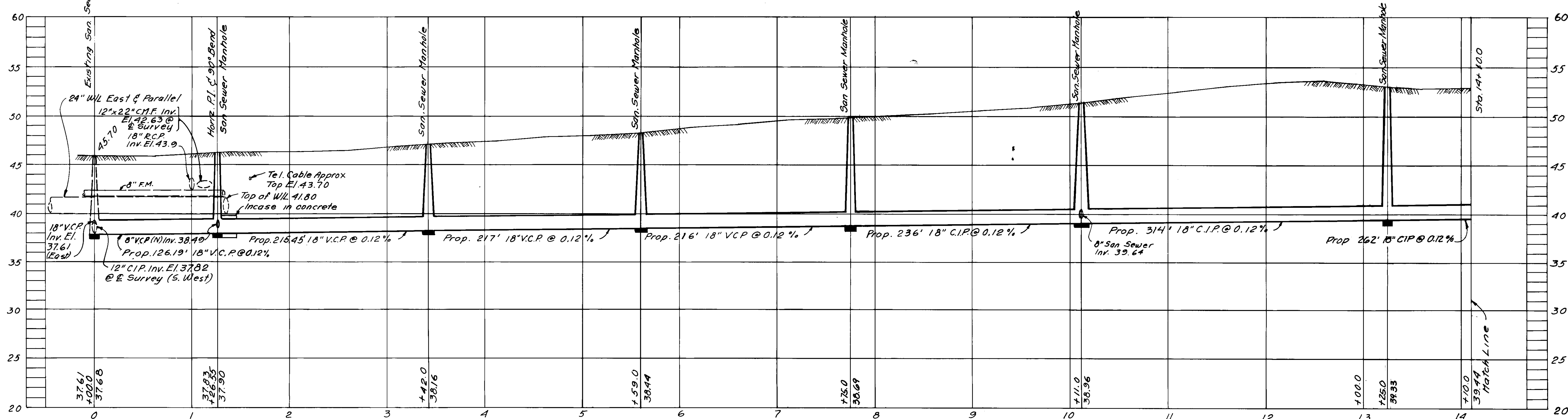
PROJECT 6
DIVISION A
SUBDISTRICT A-7a

SHEET
12
OF 42



PLAN

Note: As-Built House Connections are shown as per Inspectors Report. 3-77 Q



PROFILE

W.0.7629

NOTES

1. Prior to beginning construction, excavation at Station 1+34.86 to determine exact elevation of the 24" CIP Water Main. Invert elevations of 18" VCP may have to be adjusted based on a different elevation from that determined by the initial survey.
2. Existing 8" VCP San Sewer to be abandoned (File 10-4). Existing house connections to be reconnected to proposed 18" VCP.
3. House connection locations for 3003, 3011 and 3015 are proposed and subject to field relocation.

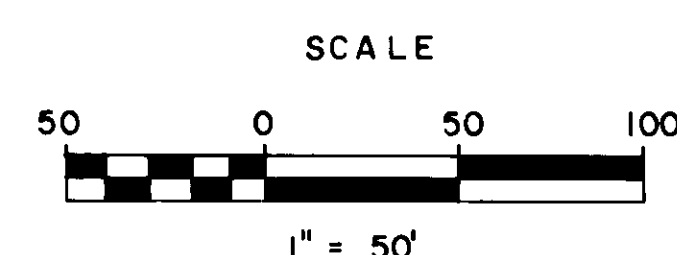
ATLAS D-10

D-10 25

DES: DRN: E.R. CKD. DATE MARCH, 1976

APPROVED BY: J.W. SILLIMAN, PE., DIRECTOR DEPARTMENT of SANITARY SEWERS

N ^o	DATE	REVISIONS
1		
2		
3		
4		
5		

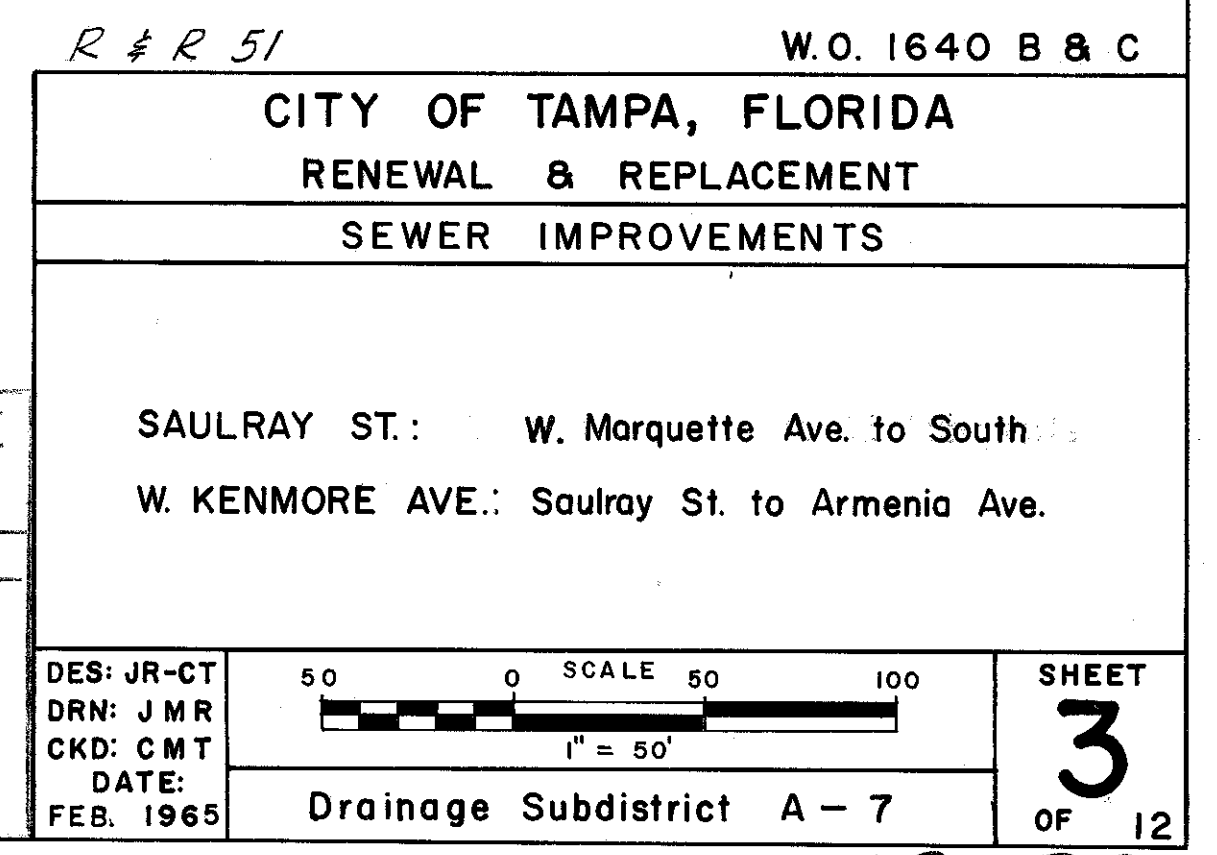


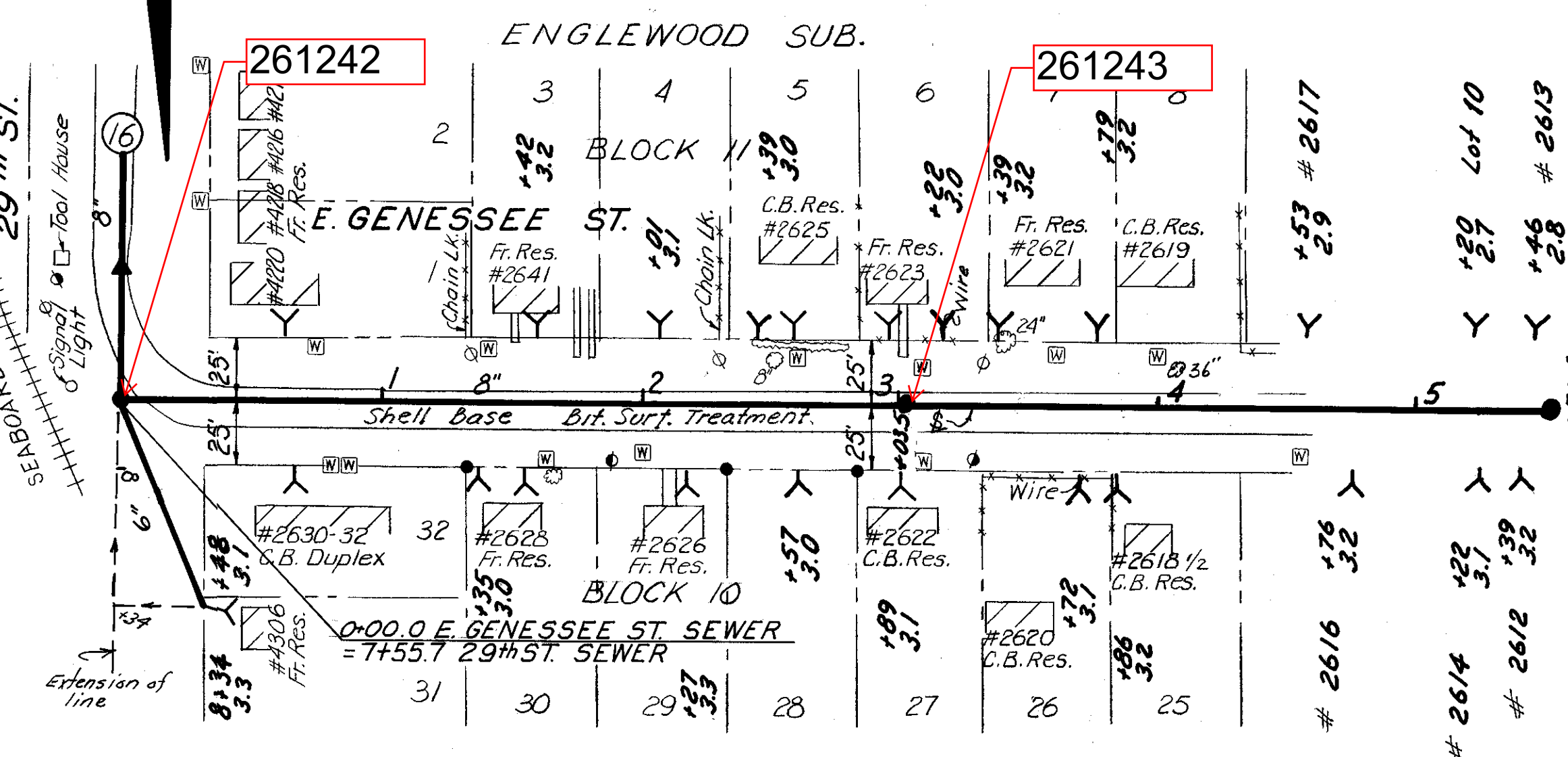
DEPARTMENT of SANITARY SEWERS
CITY of TAMPA, FLORIDA
RENEWAL & REPLACEMENT
SEWER IMPROVEMENTS

NORTH HABANA AVE: From Westhigh Ave. to Sitka Rd. & Himes Ave.
SITKA ST.: From North Habana Ave. to Himes Ave.

SHEET 1 OF 5

129-41



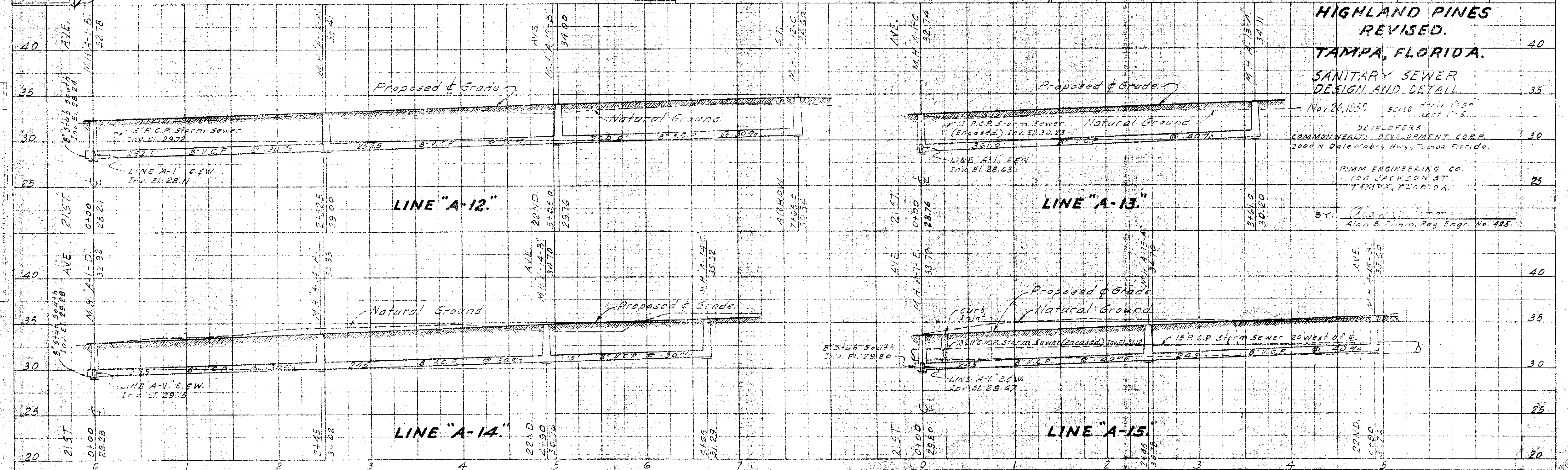
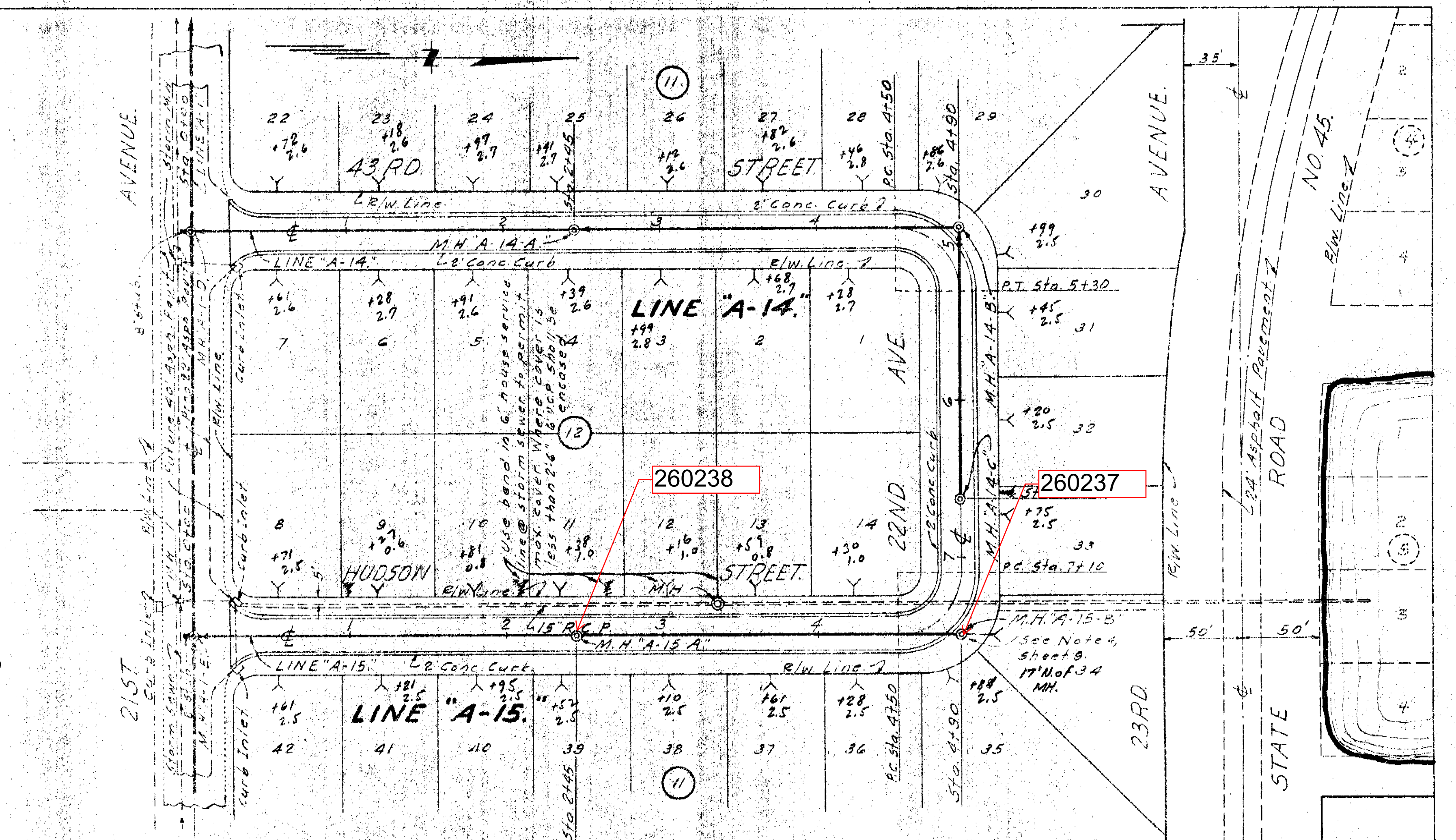
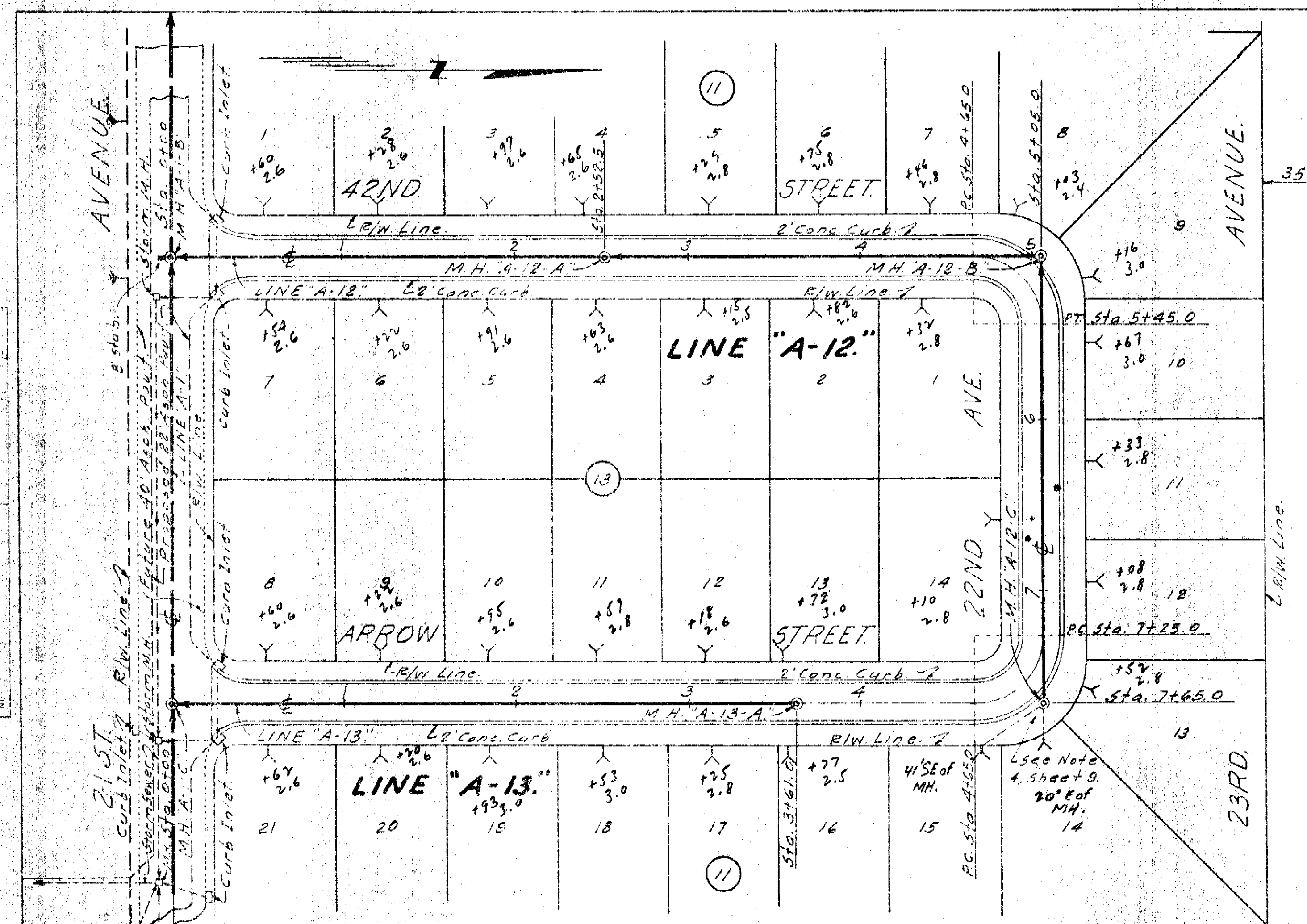


B. M. No. A-11. 2-3
R. R. Spike in Root
30" Oak S. W. Corner
29th St. & Chelsea St.
Elev. 59.132

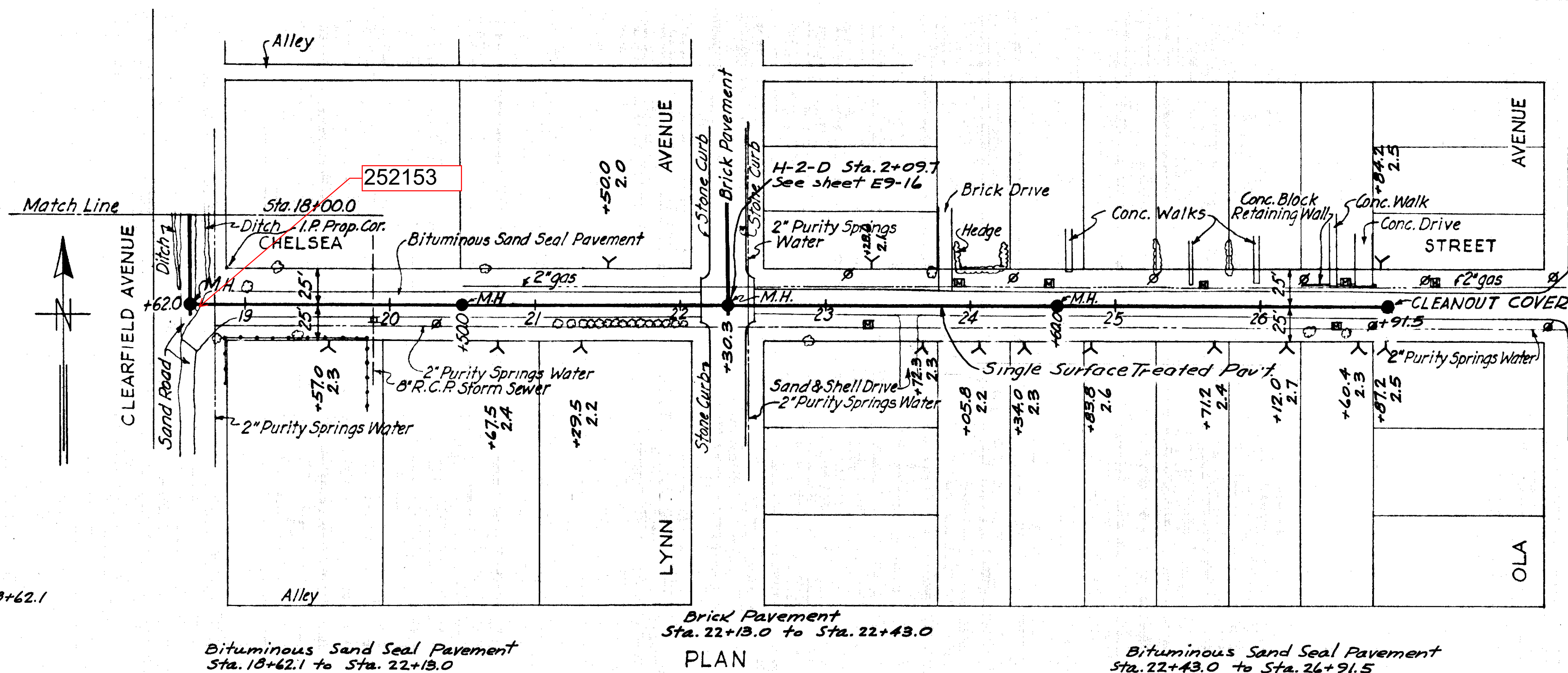
DES. <u>LDH</u>	PROJECT 21 DIVISION A SUBDISTRICT A-11	SHEET
DRN. <u>RRH</u>		16
CKD. <u>RRH</u>		
SCALE <u>1" = 50'</u>		
DATE <u>MAR 64</u>		OF <u>53</u>

PLAN
 1" = 40'
 1" = 10'

PROFILE
 1" = 10'
 1" = 10'



HIGHLAND PINES
 REVISED.
TAMPA, FLORIDA.
 SANITARY SEWER
 DESIGN AND DETAIL.
 Nov. 20, 1959. SCALE: HORIZ. 1" = 50' VERT. 1" = 5'
 DEVELOPERS:
 COMMONWEALTH DEVELOPMENT CORP.
 2000 N. Dale Mabry Hwy., Tampa, Florida.
 RIMM ENGINEERING CO.
 104 JACKSON ST.
 TAMPA, FLORIDA.
 BY: *[Signature]*
 Alan B. Rimm, Reg. Engr. No. 425.



H-2

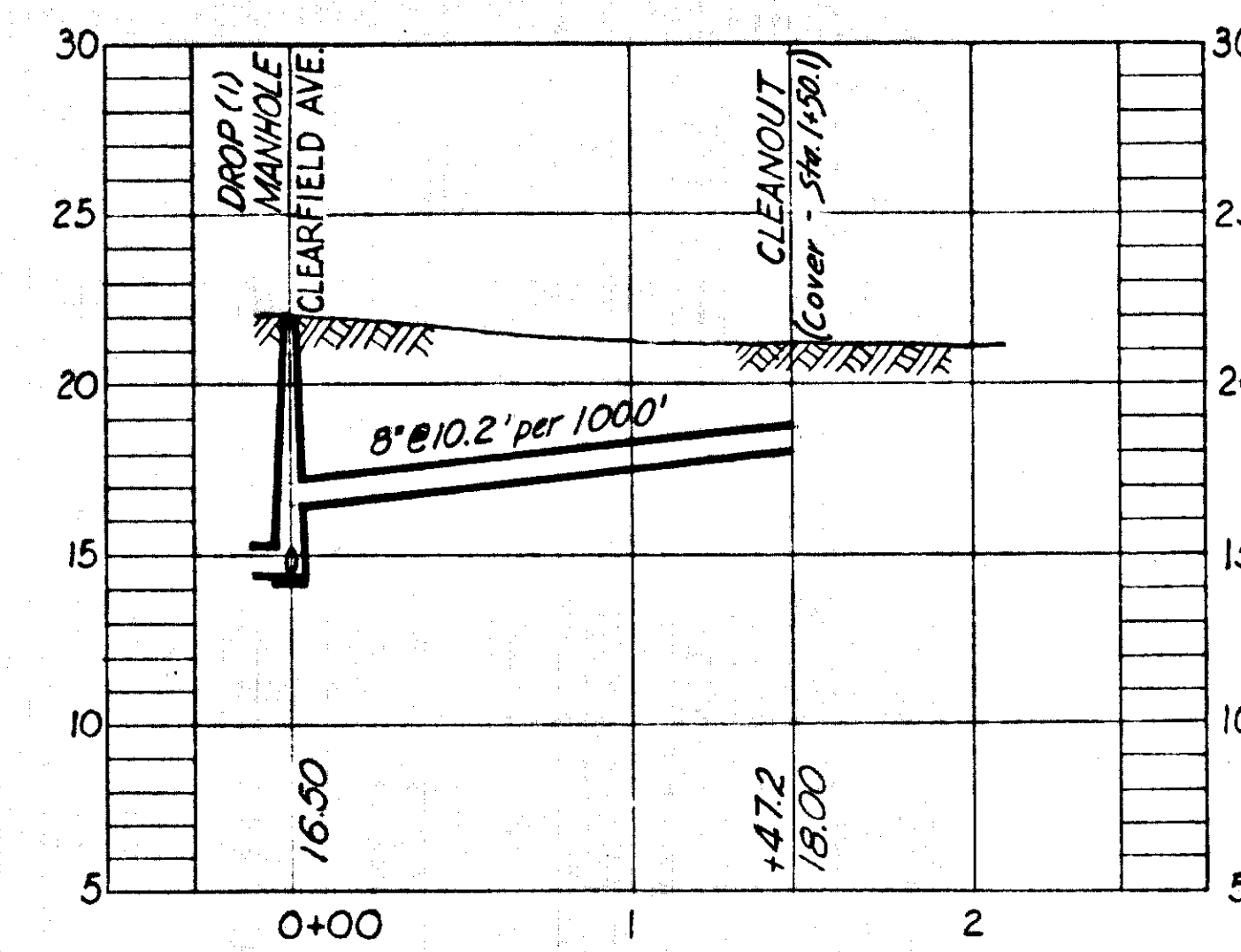
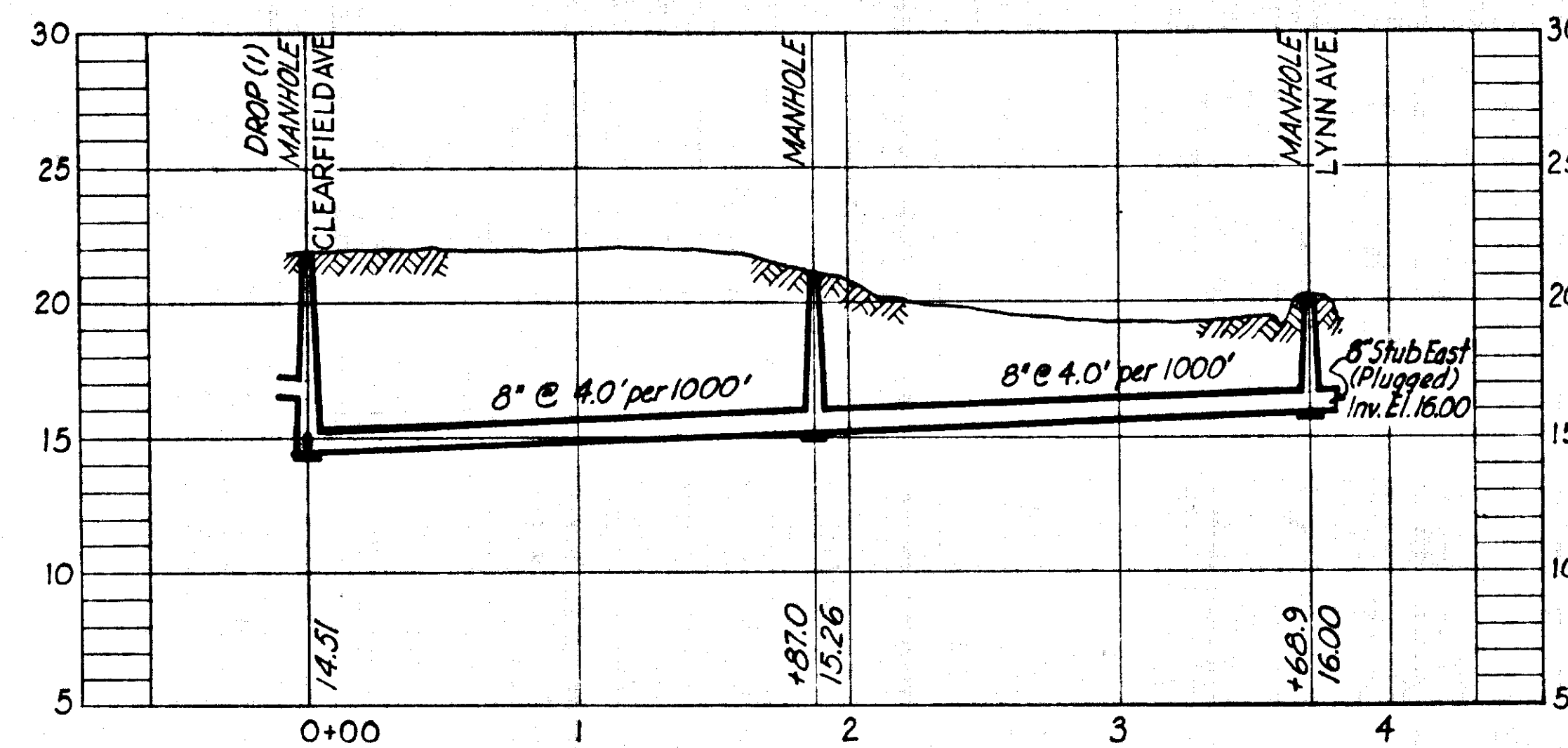
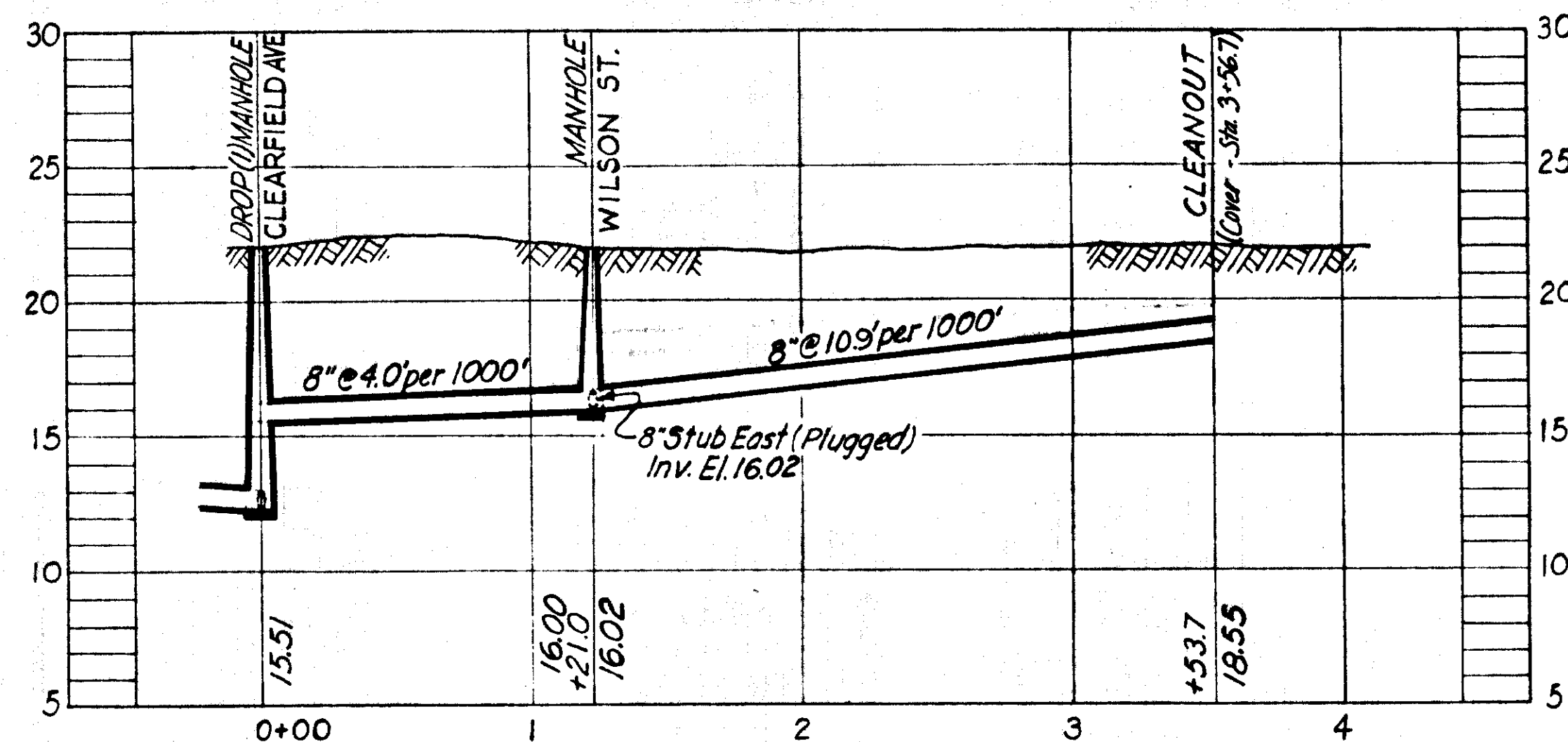
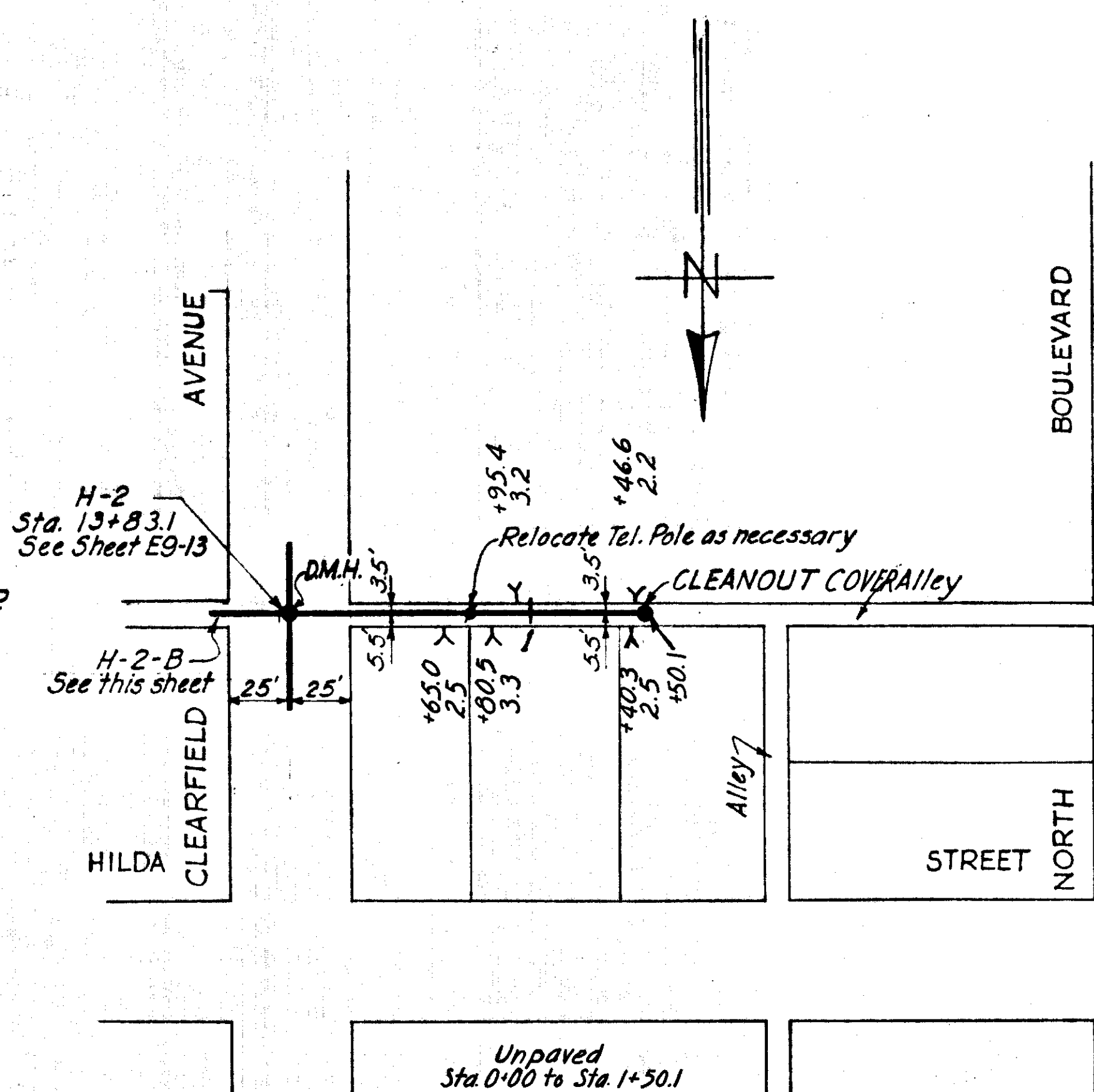
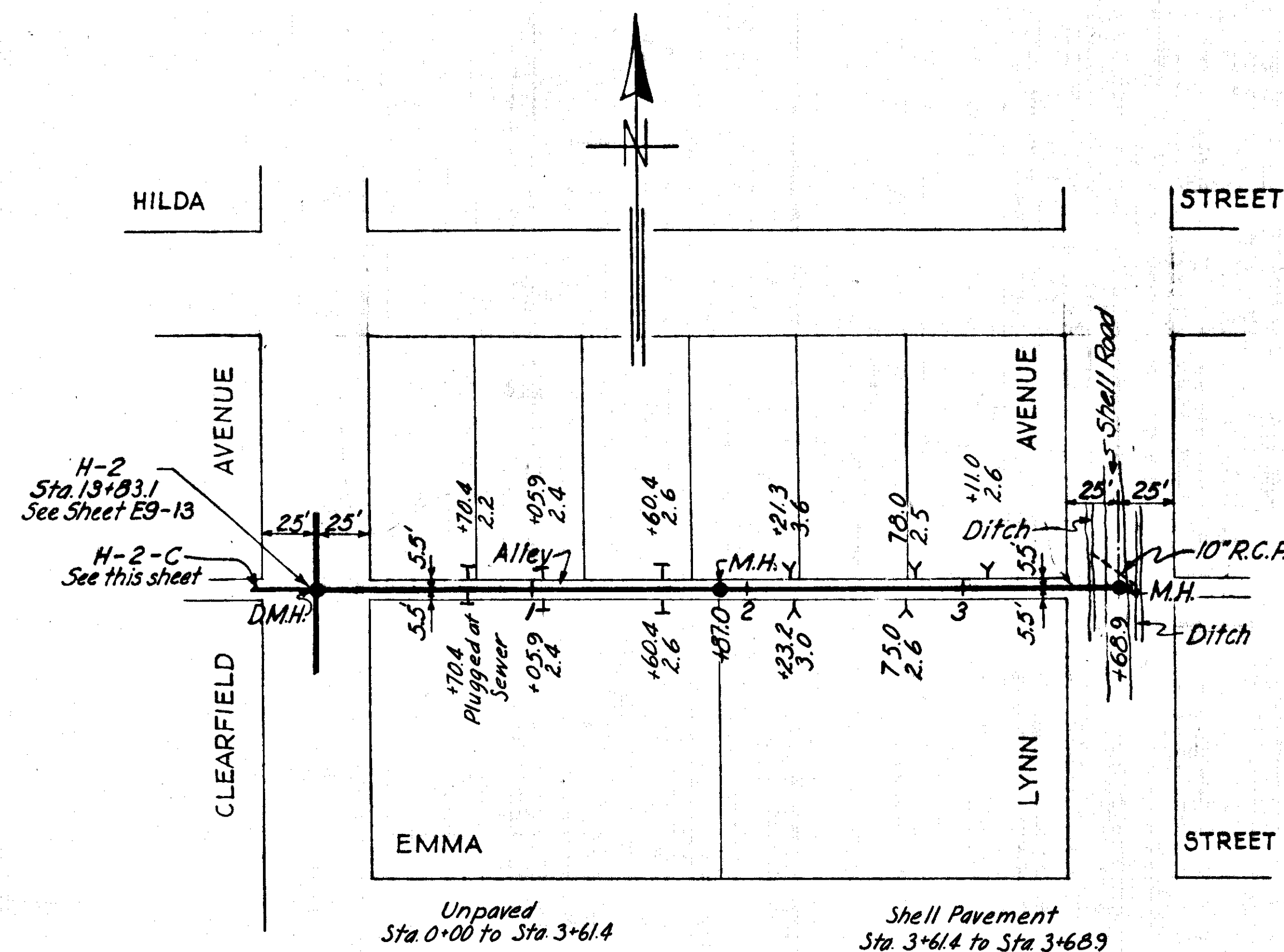
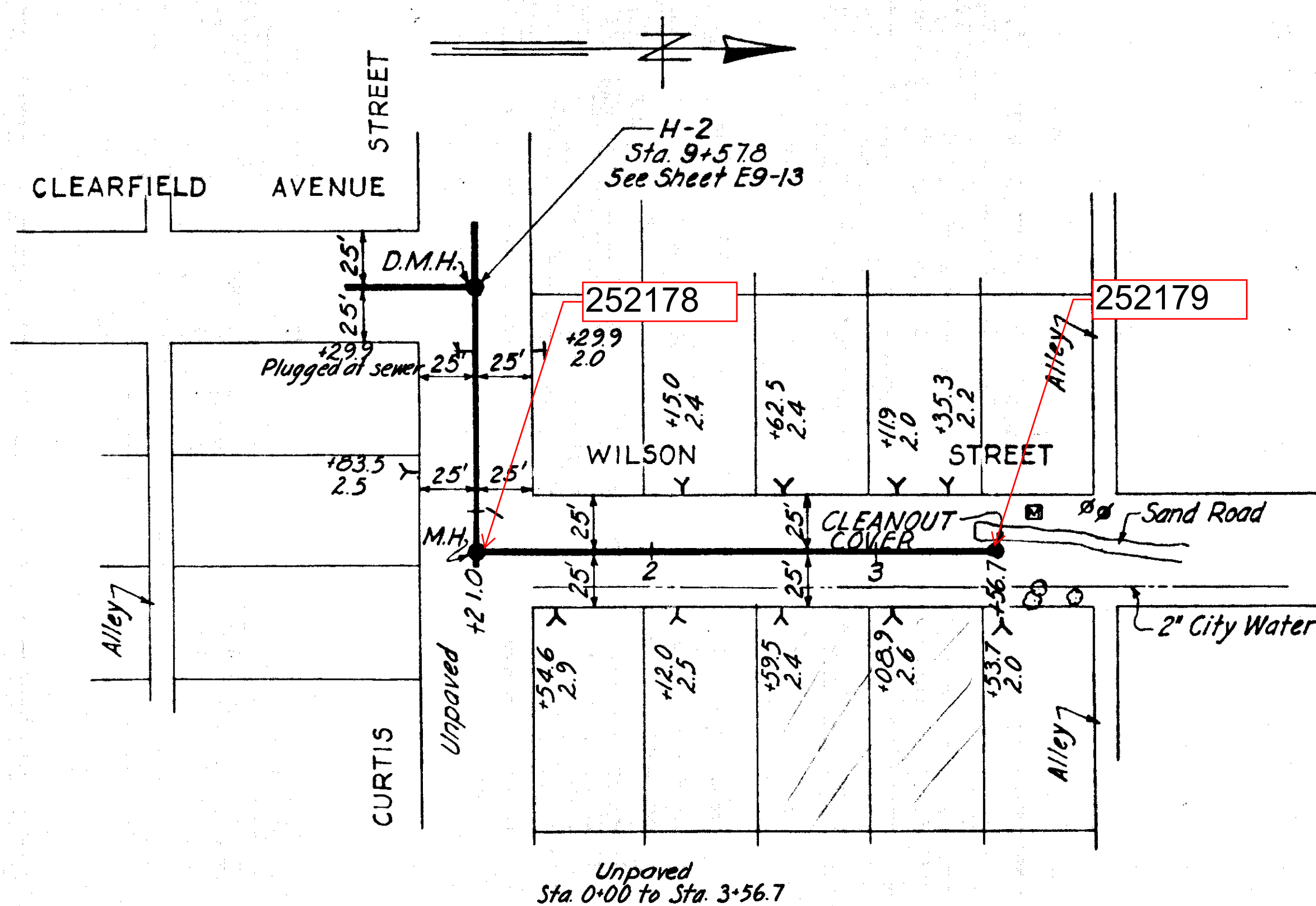


H-2

AS-BUILT PLAN

SHEET
E9-14
OF 44

49-14



GREELEY AND HANSEN
ENGINEERS
CHICAGO, ILL.

AS-BUILT PLAN
Revised to show actual conditions according
to construction records as of JULY 27, 1951.
(W.A.S. 8/10/51)

CITY OF TAMPA, FLORIDA SEWER IMPROVEMENTS	
DIVISION E9	
H-2-A, H-2-B & H-2-C	
DES: FFL DR: RMJ CKD: WWS DATE MAY 1950	SCALE 1" = 50'
SHEET E9-15 OF 44	

49-15

PLAN	DATE	BY
SURVEYED		
PLOTTED		
NOTED		
NO		

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
NOTED		
NO		

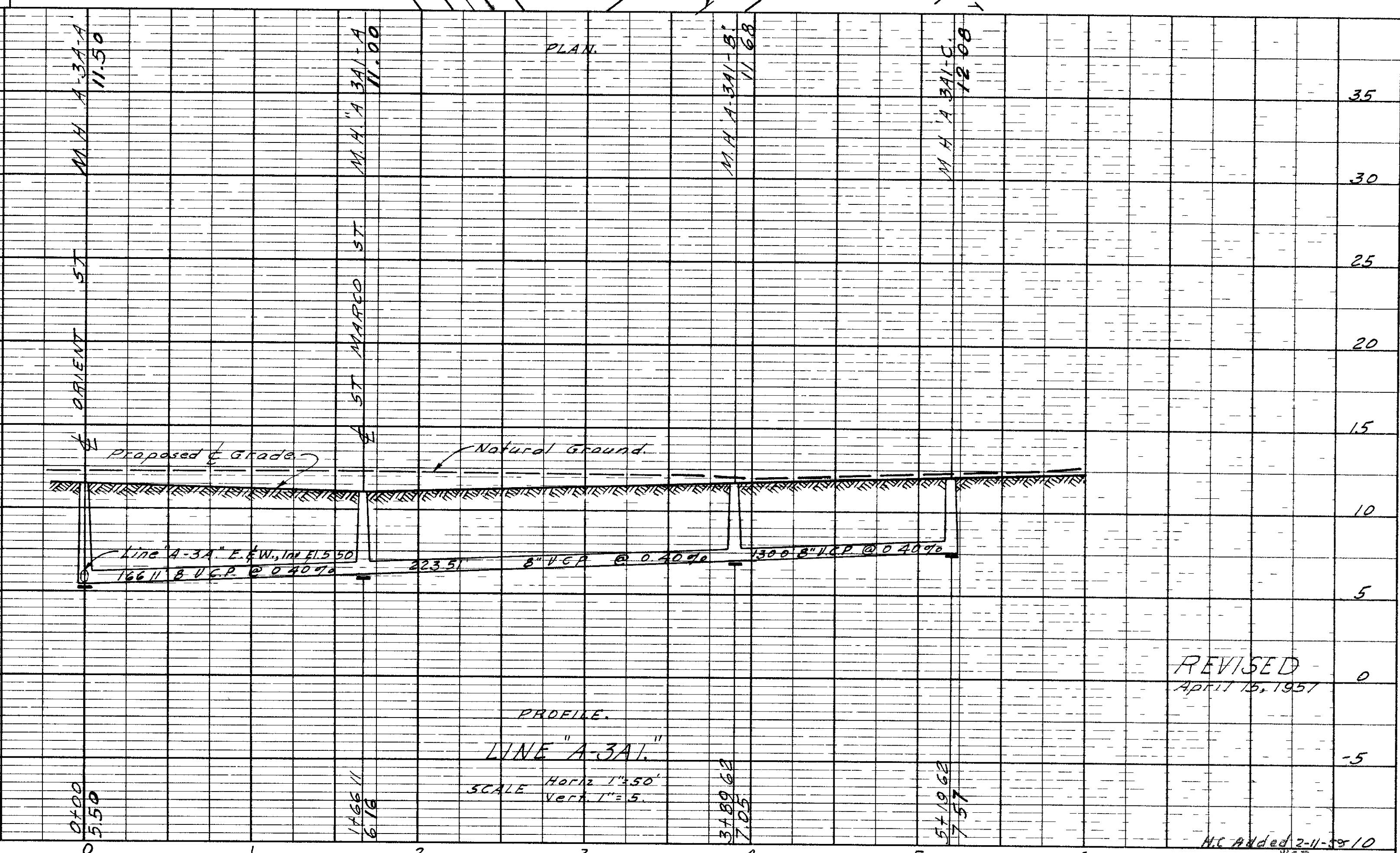
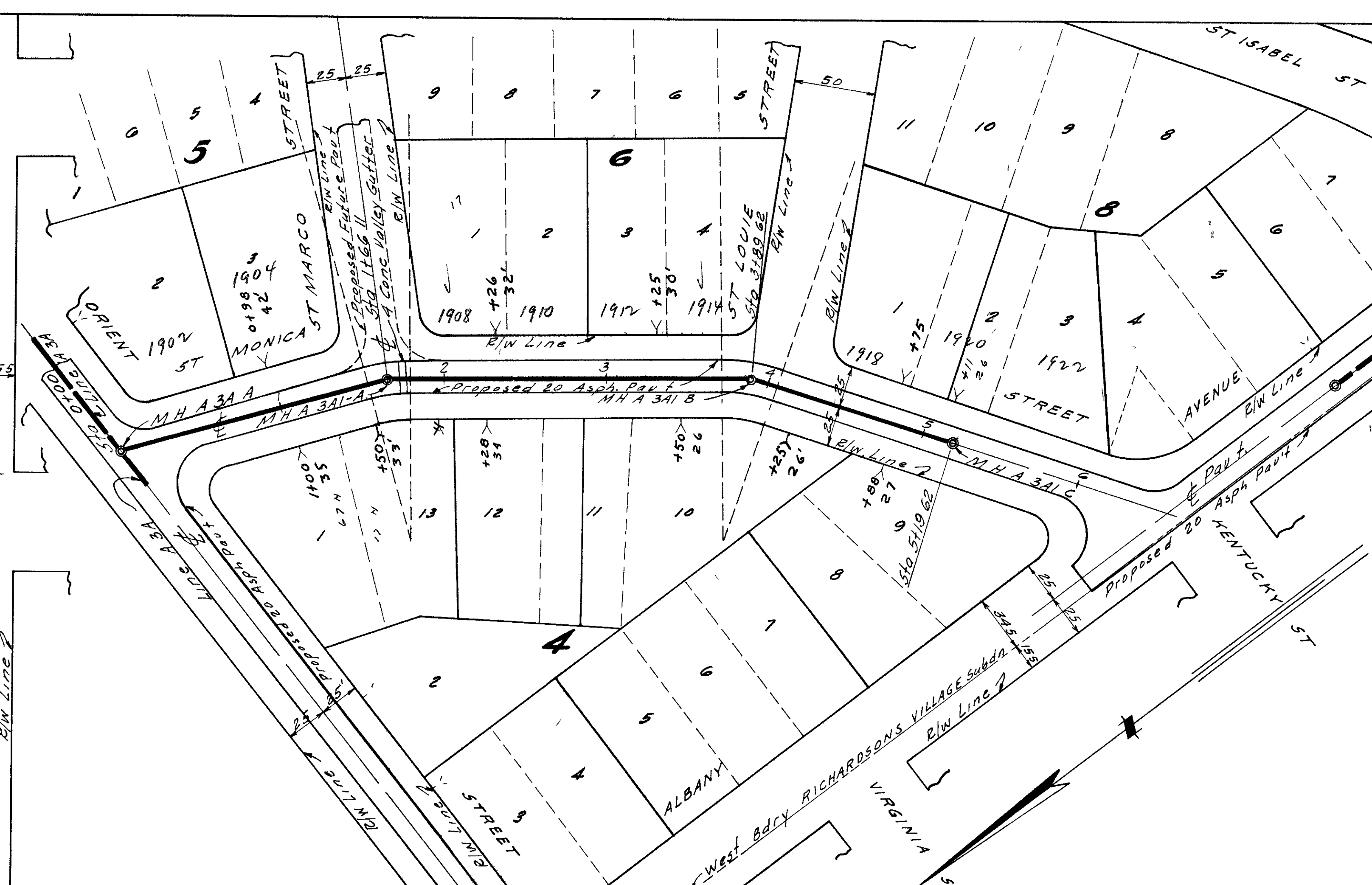
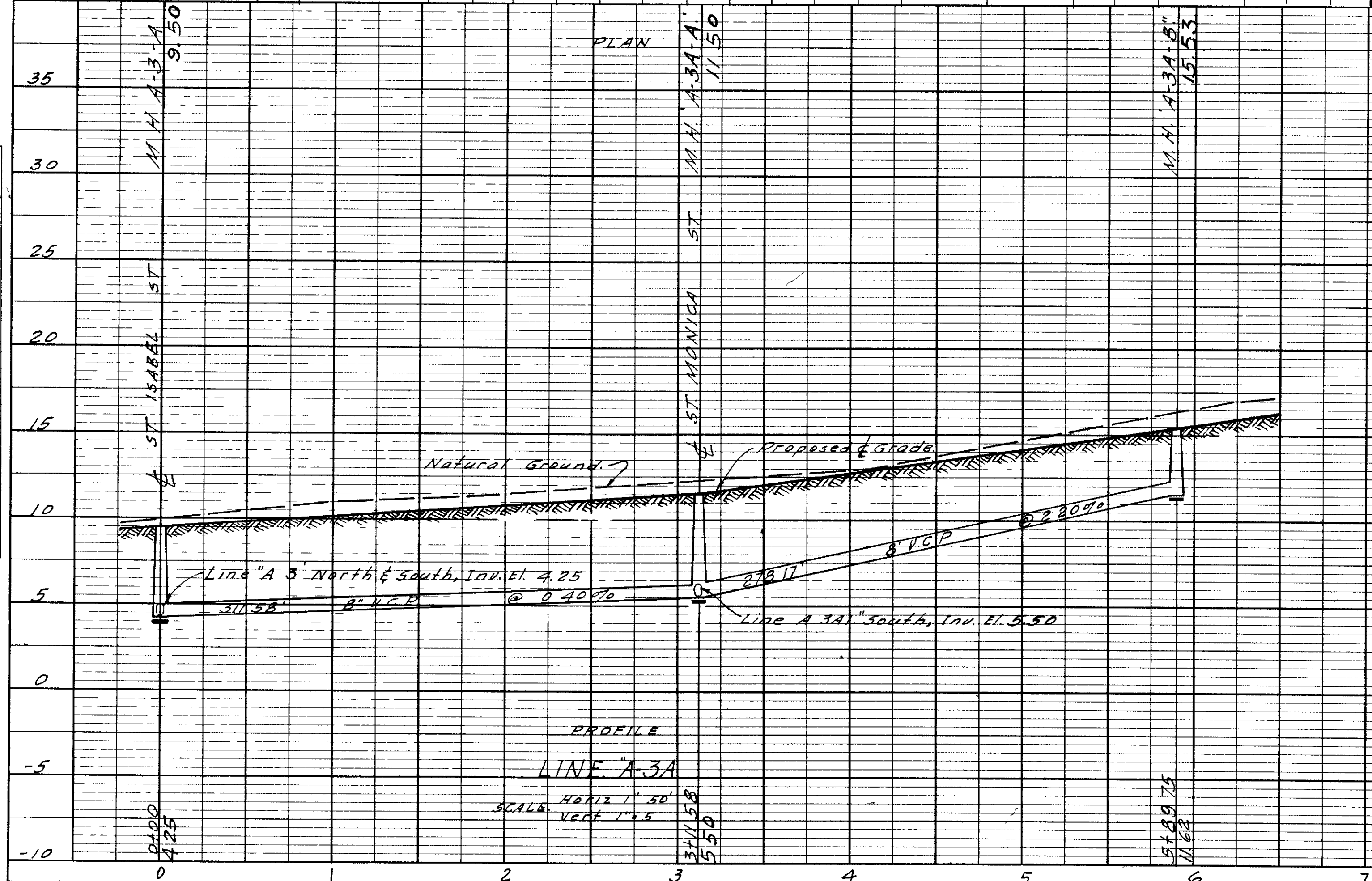
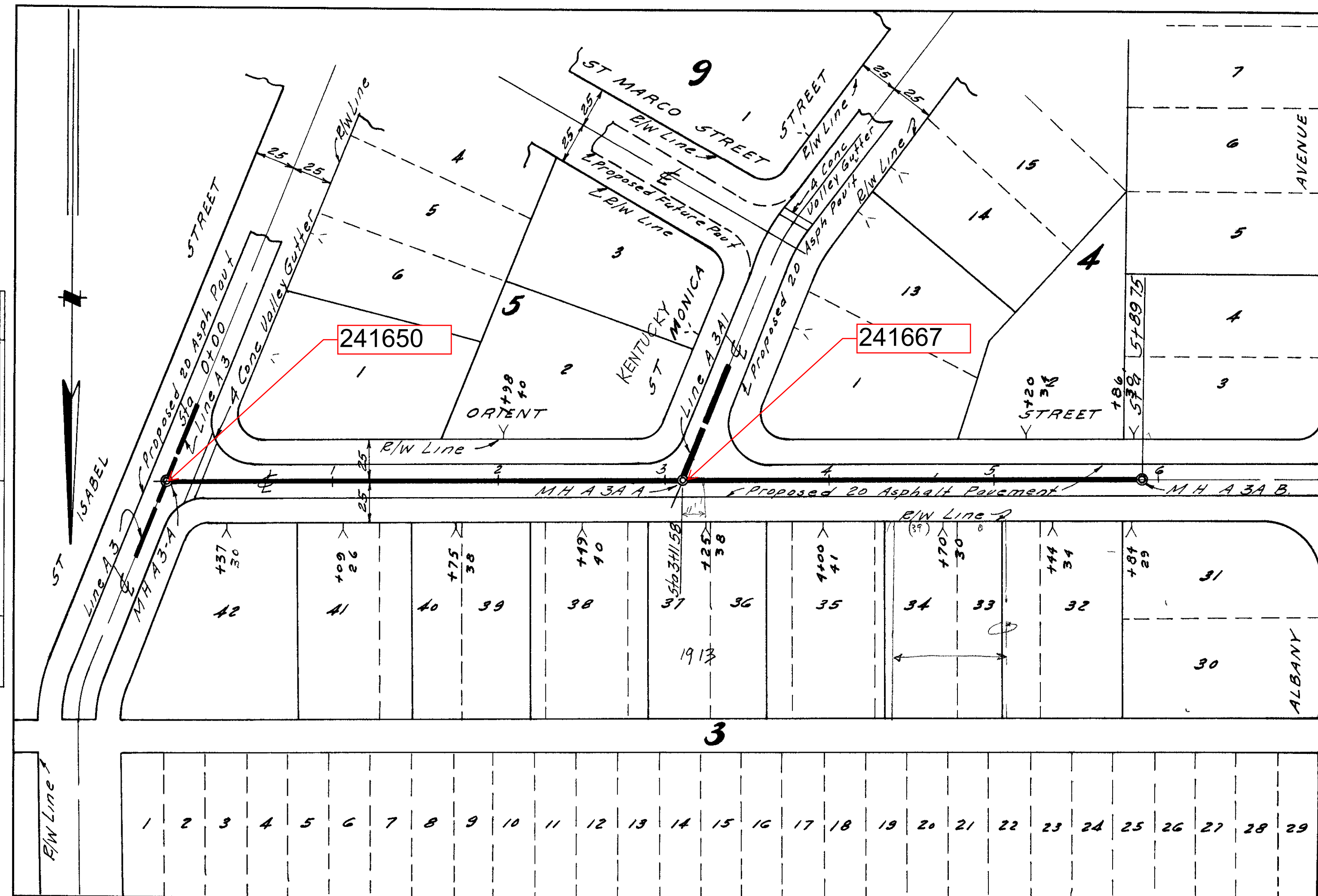
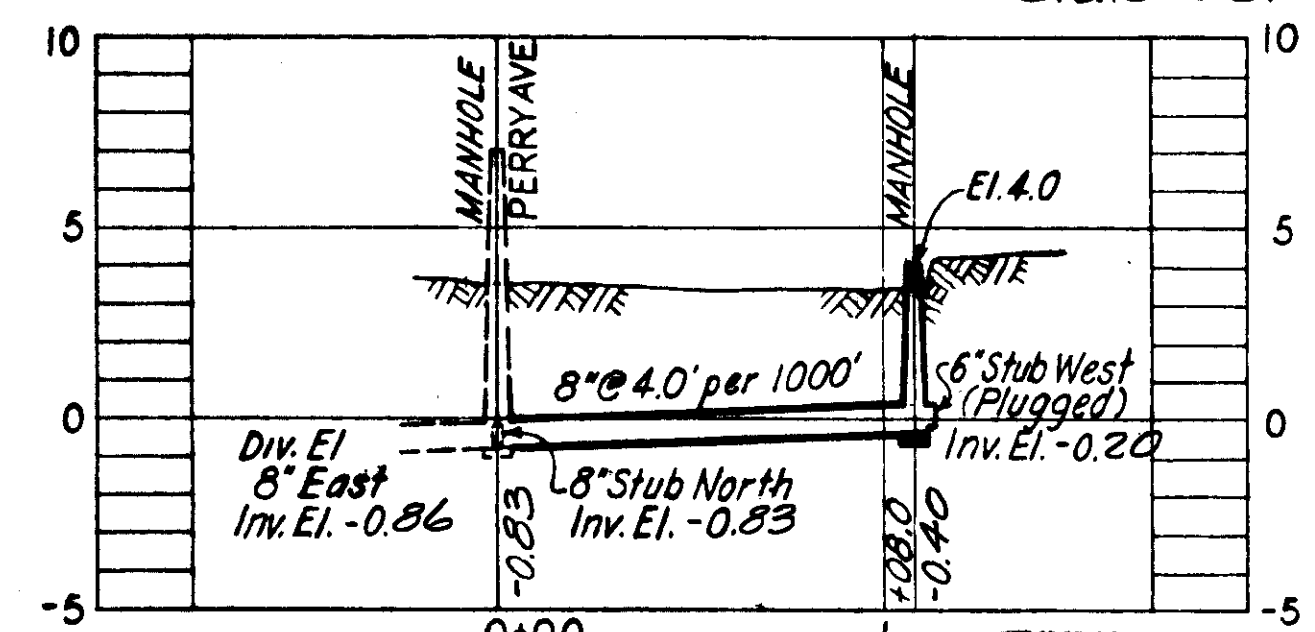
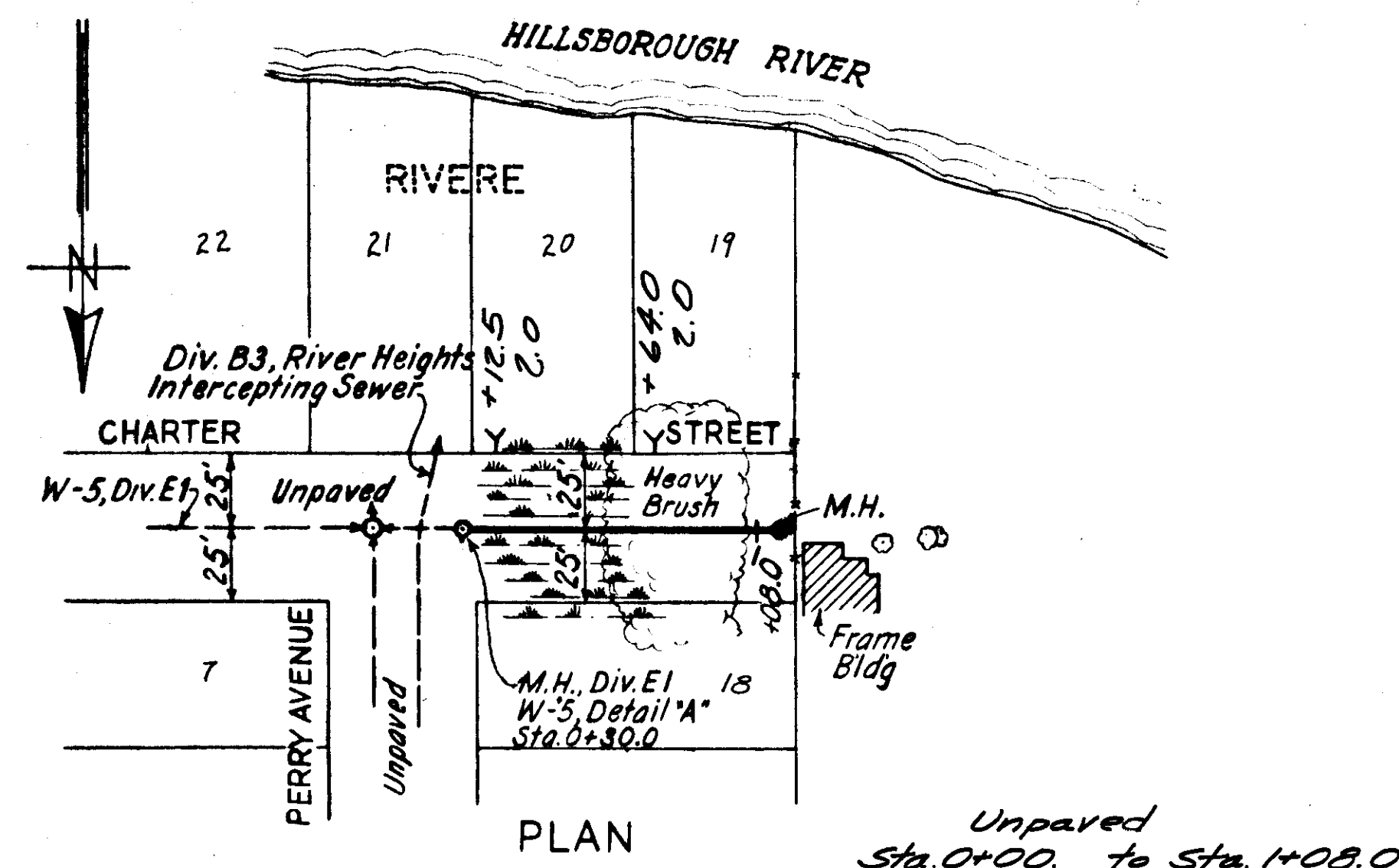


PLATE 1 PLAN PROFILE S R R STANDARD
100 GEOD. V. UM-MAD A D P N D N S A
EUGENE DIETZEN CO.

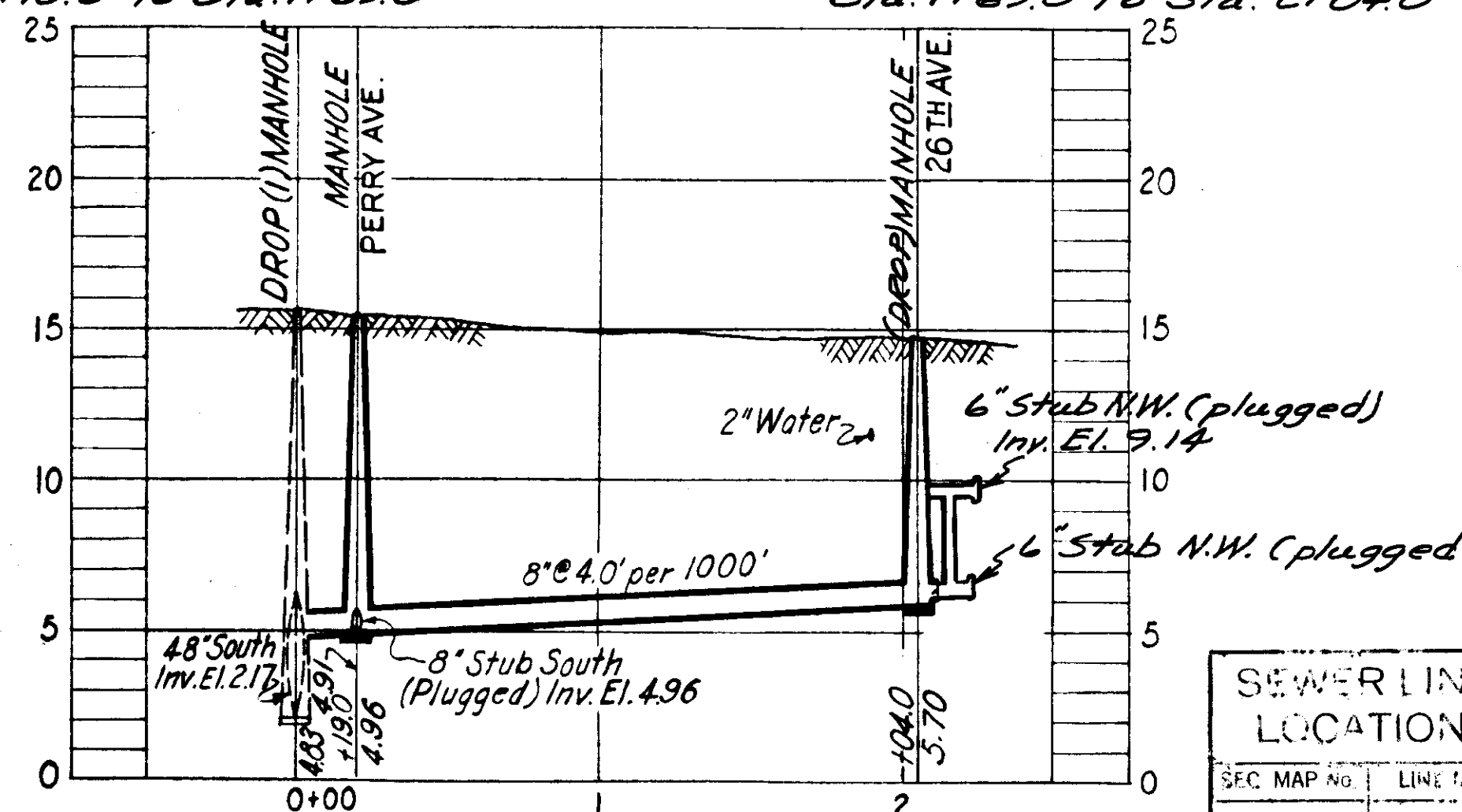
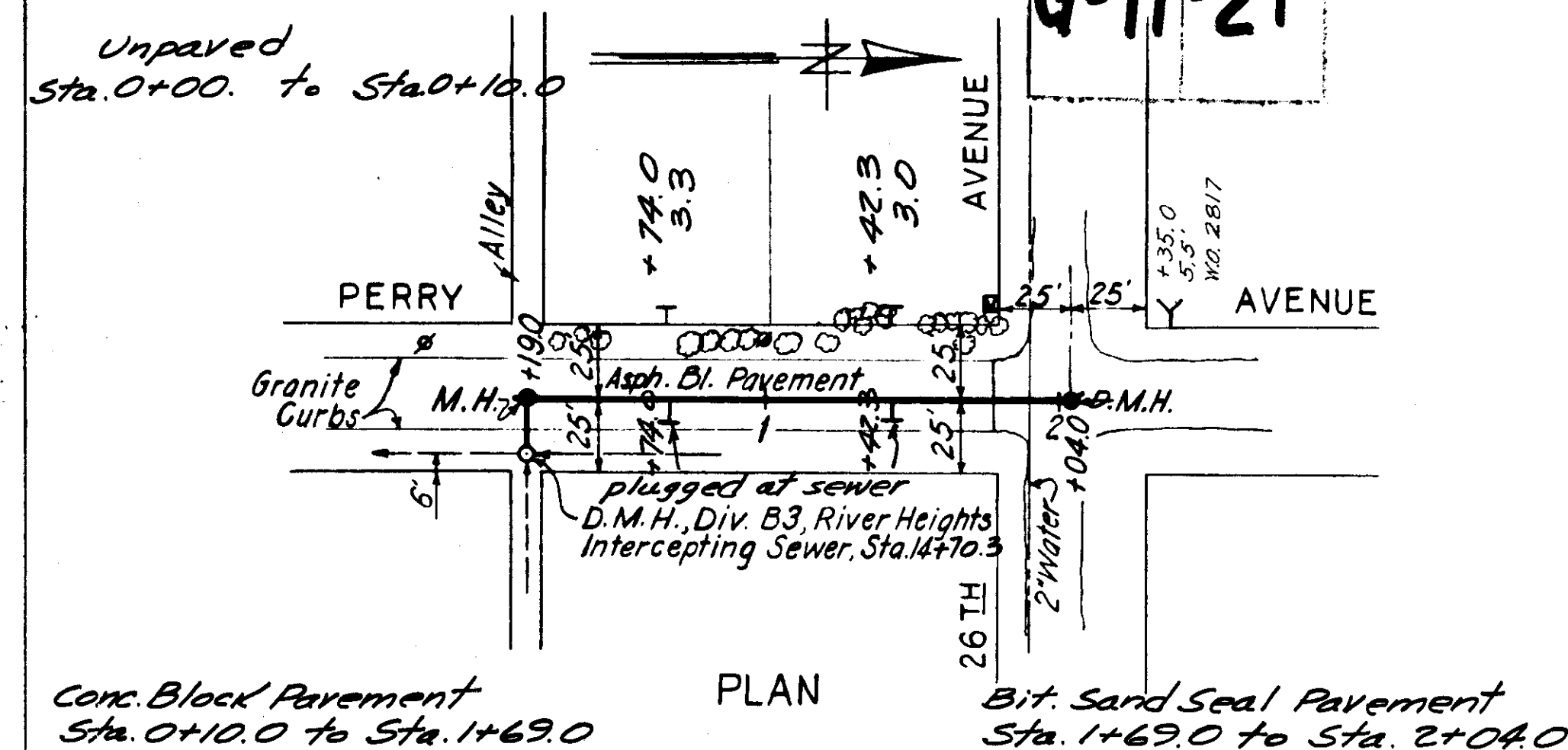
SHEET 5

REVISED
April 15, 1957

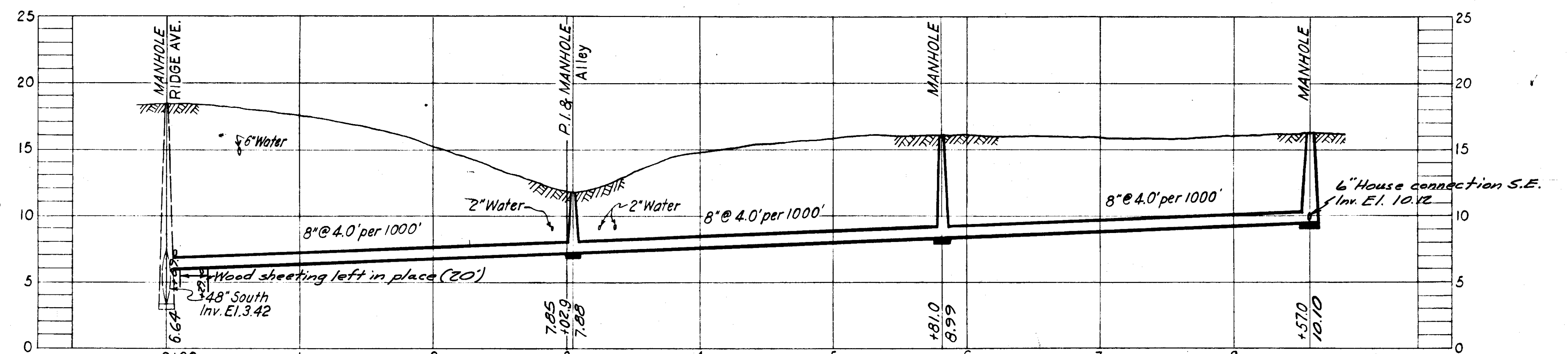
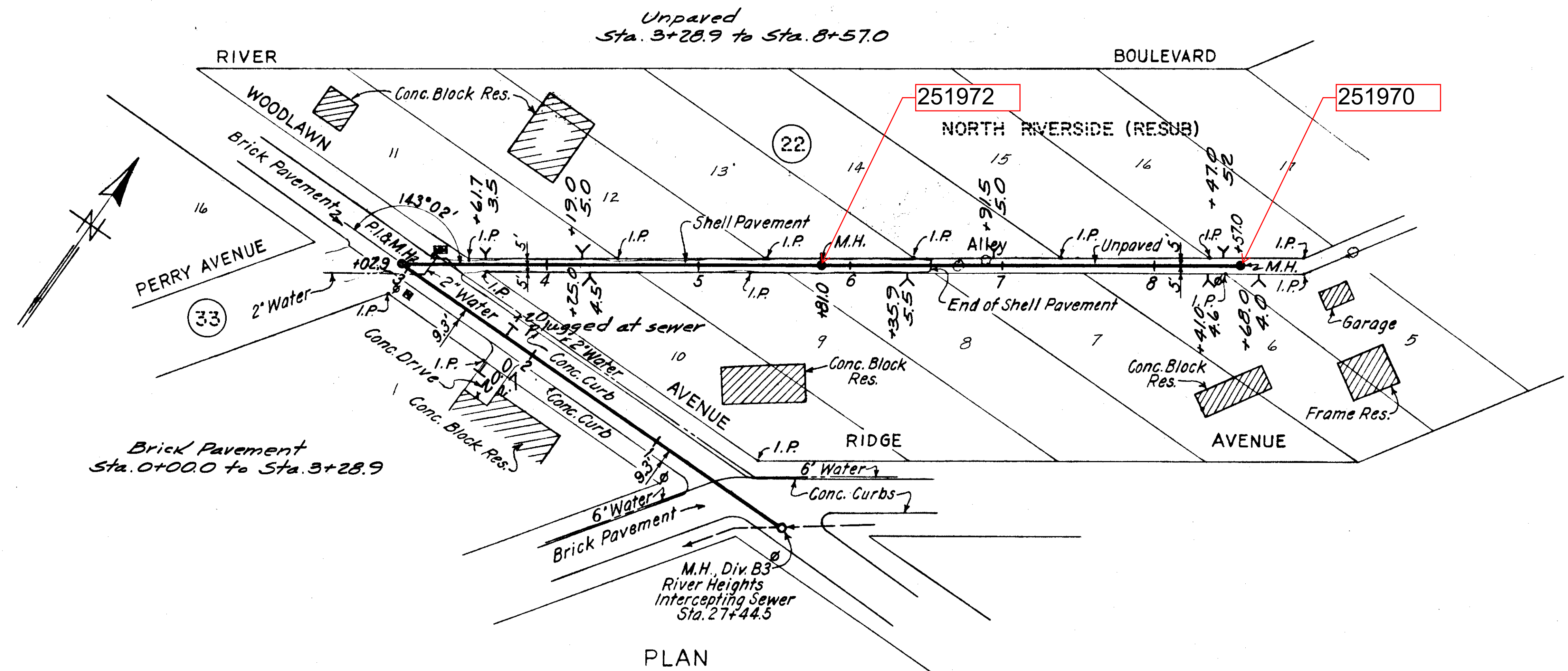
14-44



SEWER LINE LOCATION
SEC. MAP No. LINE No.
G-11-21



SEWER LINE LOCATION
SEC. MAP No. LINE No.
G-11-22



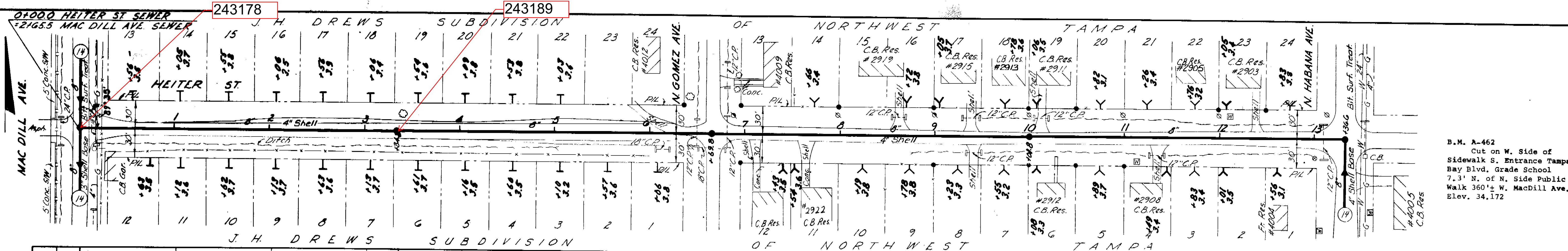
SEWER LINE LOCATION
SEC. MAP No. LINE No.
G-11-23

DEPT. OF PUBLIC WORKS
SEWER CONSTRUCTION OFFICE

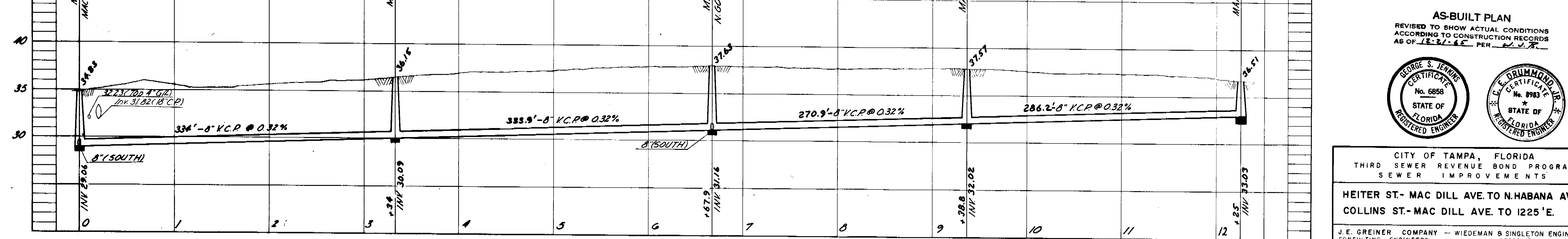
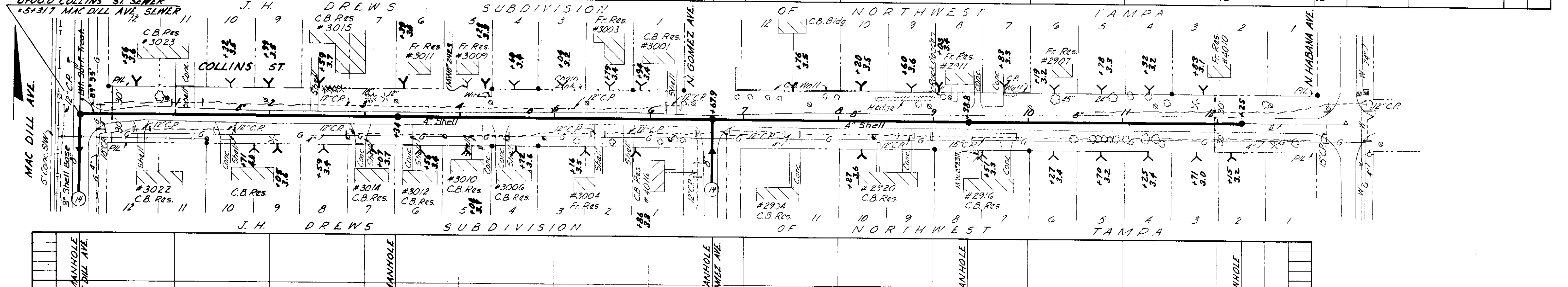
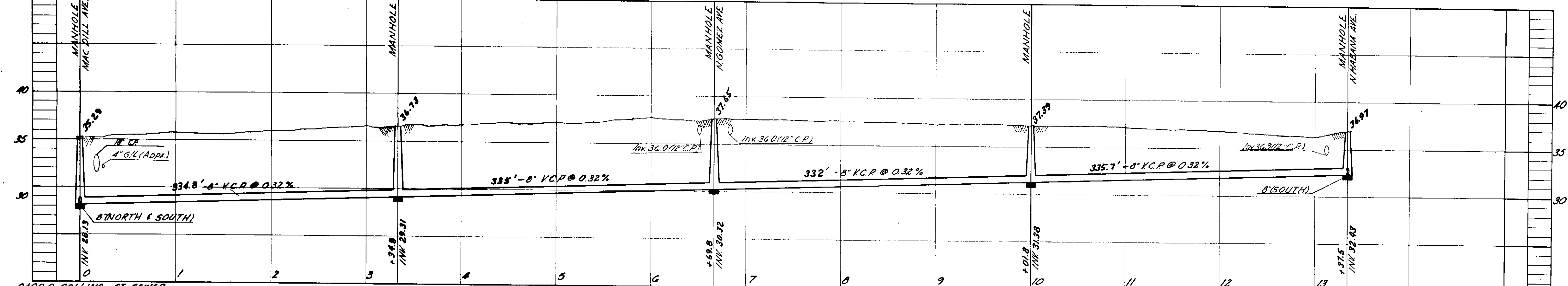
AS-BUILT PLAN
Revised to show actual conditions according to construction records as of 1-6-53 (U.I.S. 1-6-53)

CITY OF TAMPA, FLORIDA SEWER IMPROVEMENTS	
ADDITIONAL SEWER EXTENSIONS IN AREA I	
W-5-N, W-21 & W-22	
DES: R.M.U. DR: R.M.U. CHKD: W.W.S. DATE: AUG, 1951	SCALE 1" = 50' SHEET 4 OF 18

27-5



B.M. A-462
Cut on W. Side of
Sidewalk S. Entrance Tampa
Bay Blvd. Grade School
7.3' N. of N. Side Public
Walk 360' W. MacDill Ave.
Elev. 34.172



AS-BUILT PLAN
REVISED TO SHOW ACTUAL CONDITIONS
ACCORDING TO CONSTRUCTION RECORDS
AS OF 12-27-62 PER J. J. R.

GEORGE S. JENNIS
REGISTERED ENGINEER
STATE OF FLORIDA
No. 6858

E. E. DRUMMOND, JR.
REGISTERED ENGINEER
STATE OF FLORIDA
No. 8983

CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRAM
SEWER IMPROVEMENTS

HEITER ST- MAC DILL AVE. TO N. HABANA AVE.
COLLINS ST- MAC DILL AVE. TO 1225' E.

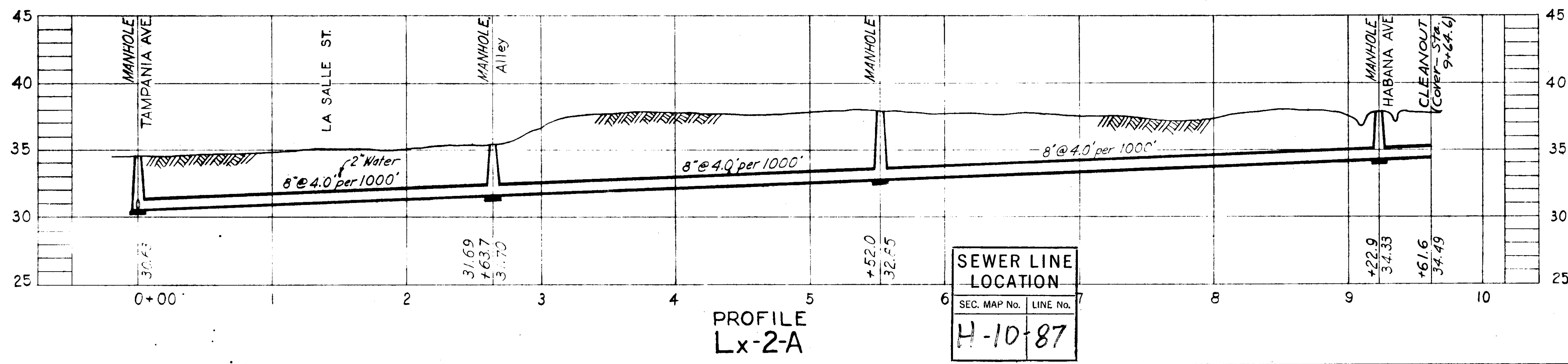
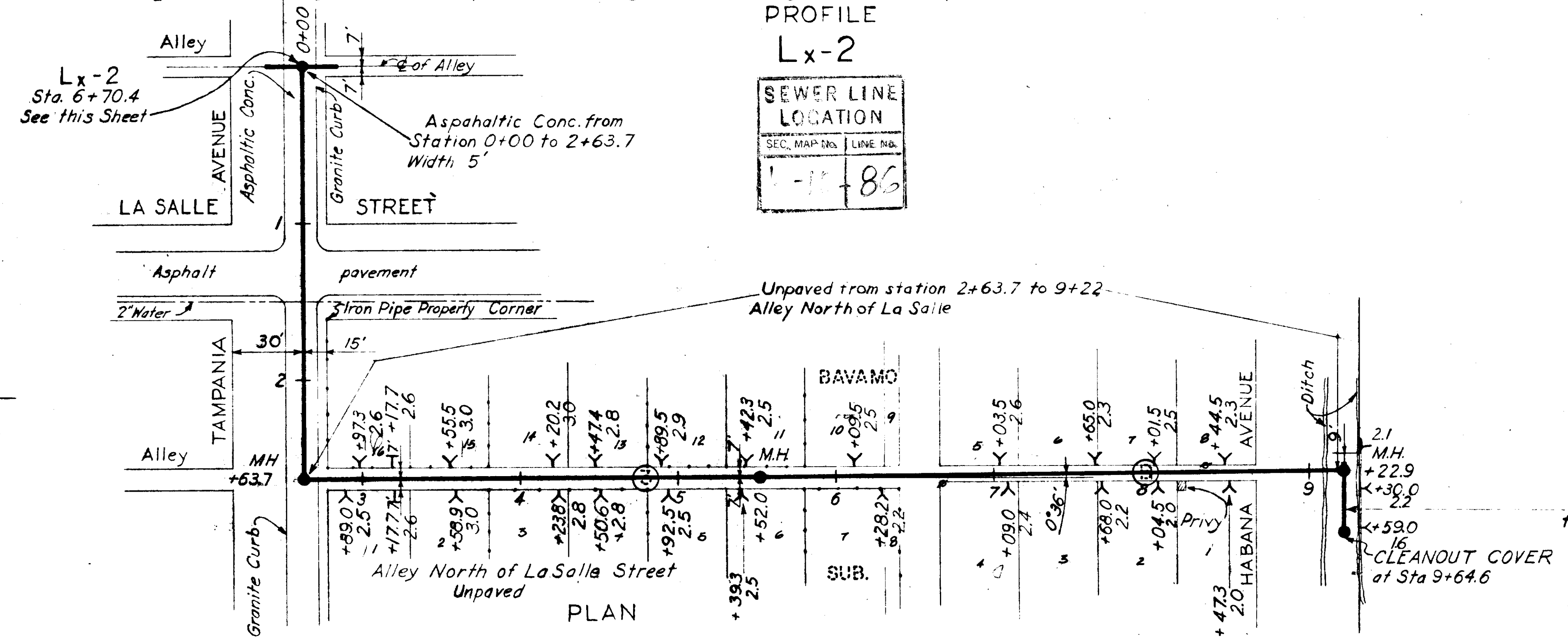
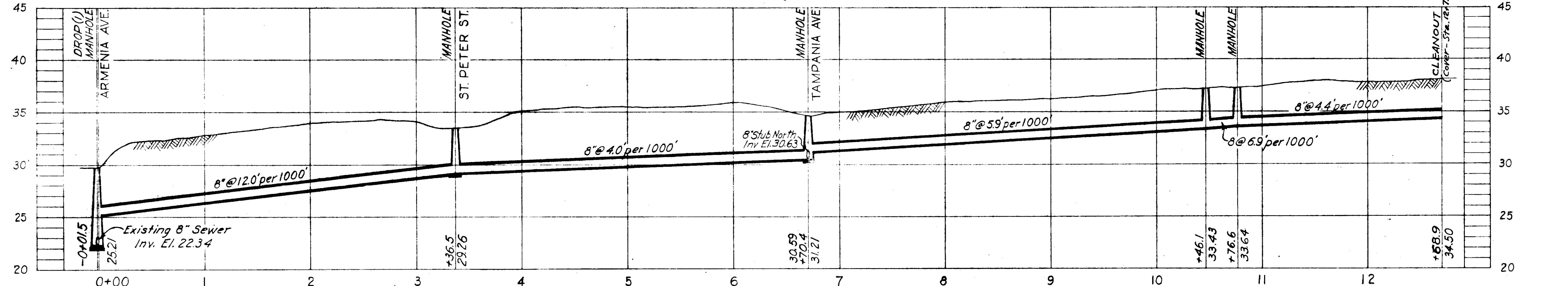
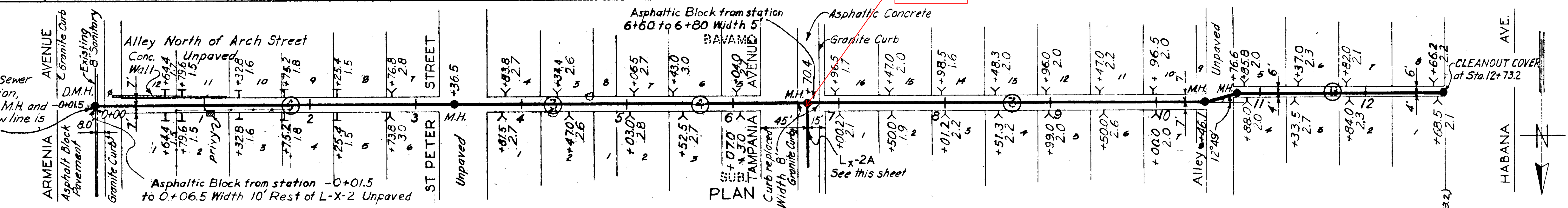
J. E. GREINER COMPANY - WIEDEMAN & SINGLETON ENGINEERS
CONSULTING ENGINEERS
TAMPA, FLORIDA

PROJECT 17
DIVISION A
SUBDISTRICT A6B & A8C

SHEET
13
OF 53

249168

Existing 8" San Sewer to be kept in operation, carried through new M.H. and broken out when new line is put into operation.



NOTE.
As built revisions added May 12, 1950
Stations at Ys & Ts is Station at End of House connection at Property Line or as noted.

By Asel T. Johnson Jr.
As built revised August 31, 1950
to include additional data.

By M. Ondina, Jr.
A. F. Lopez 9-5-50

AS-BUILT PLAN
Revised to show actual conditions according to construction records as of May 12, 1950 (R.M.J. 3-27-51)

CITY OF TAMPA, FLORIDA
SEWER IMPROVEMENTS

DIVISION E2

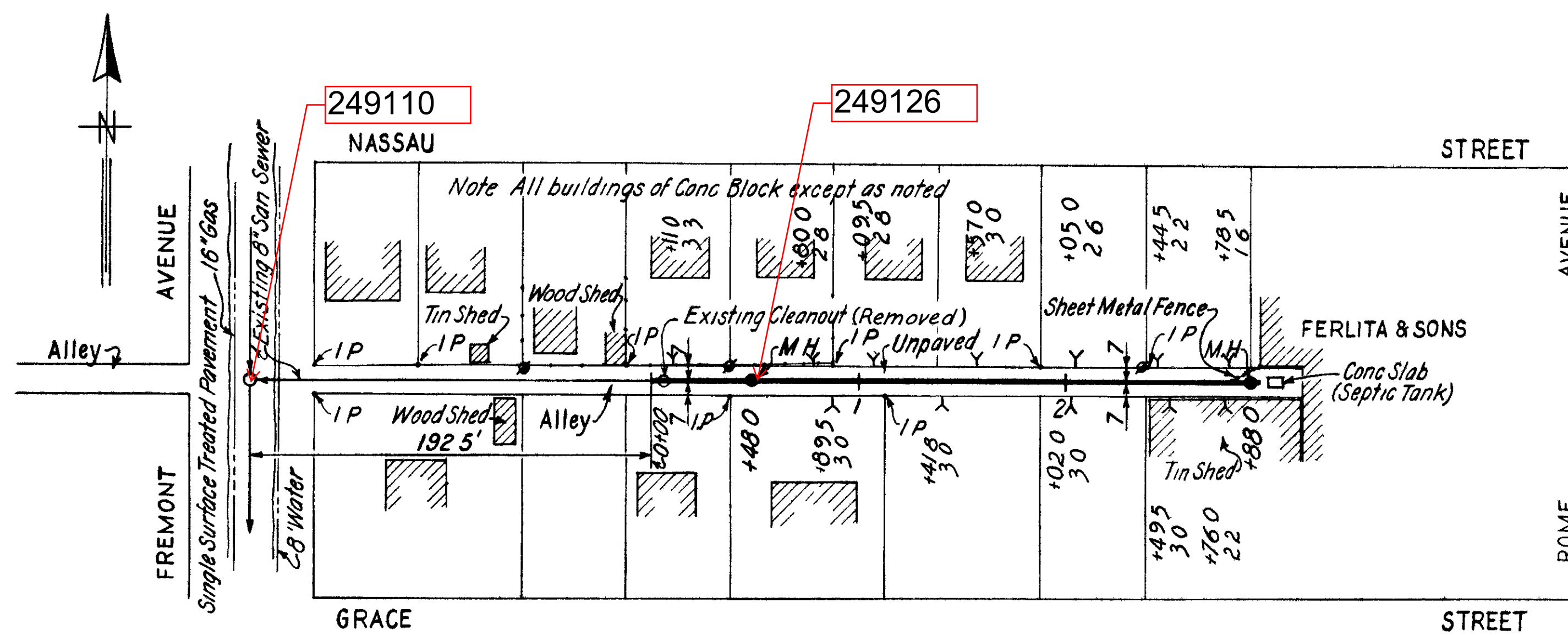
Lx-2 & Lx-2-A

DES. REH.
DR. AT. J. R.
CKD. LAB.
DATE
JUNE 1949

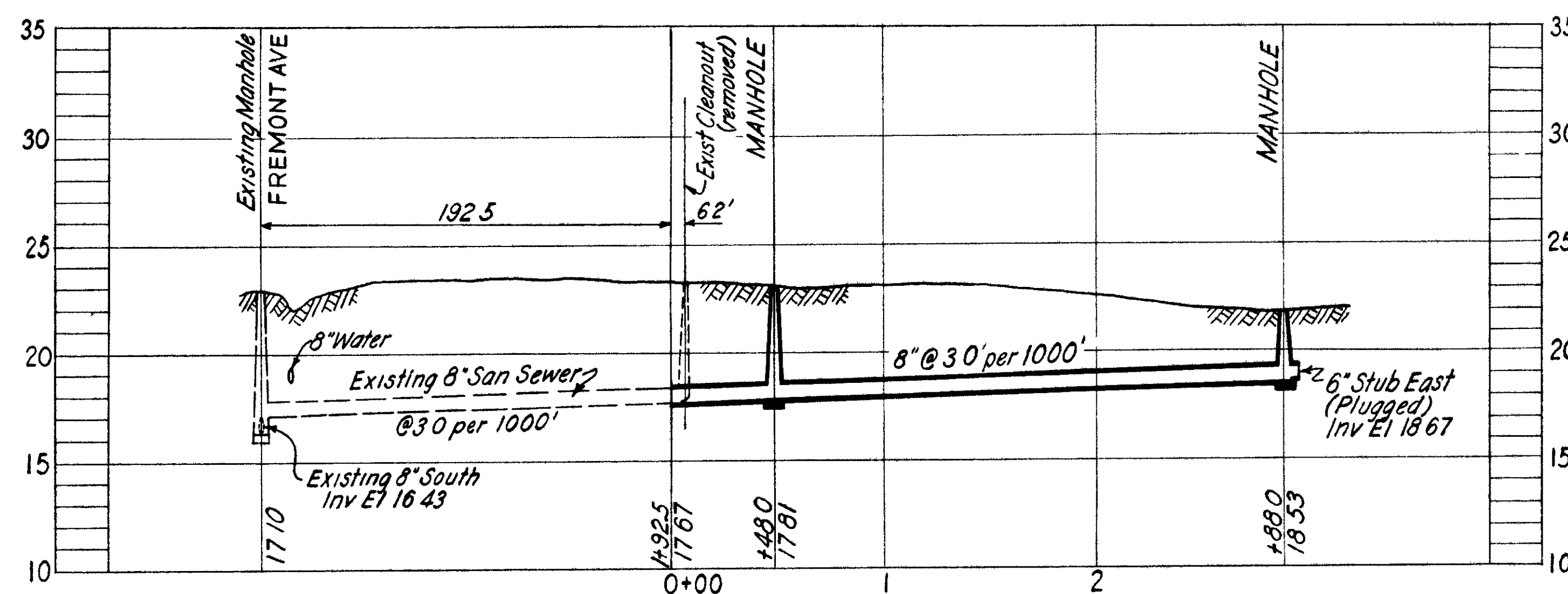
SCALE
50 0 50 100
1" = 50'

SHEET
E2-7
OF 14

GREELEY AND HANSEN
ENGINEERS
CHICAGO, ILL.



PLAN



PROFILE
Lx-4

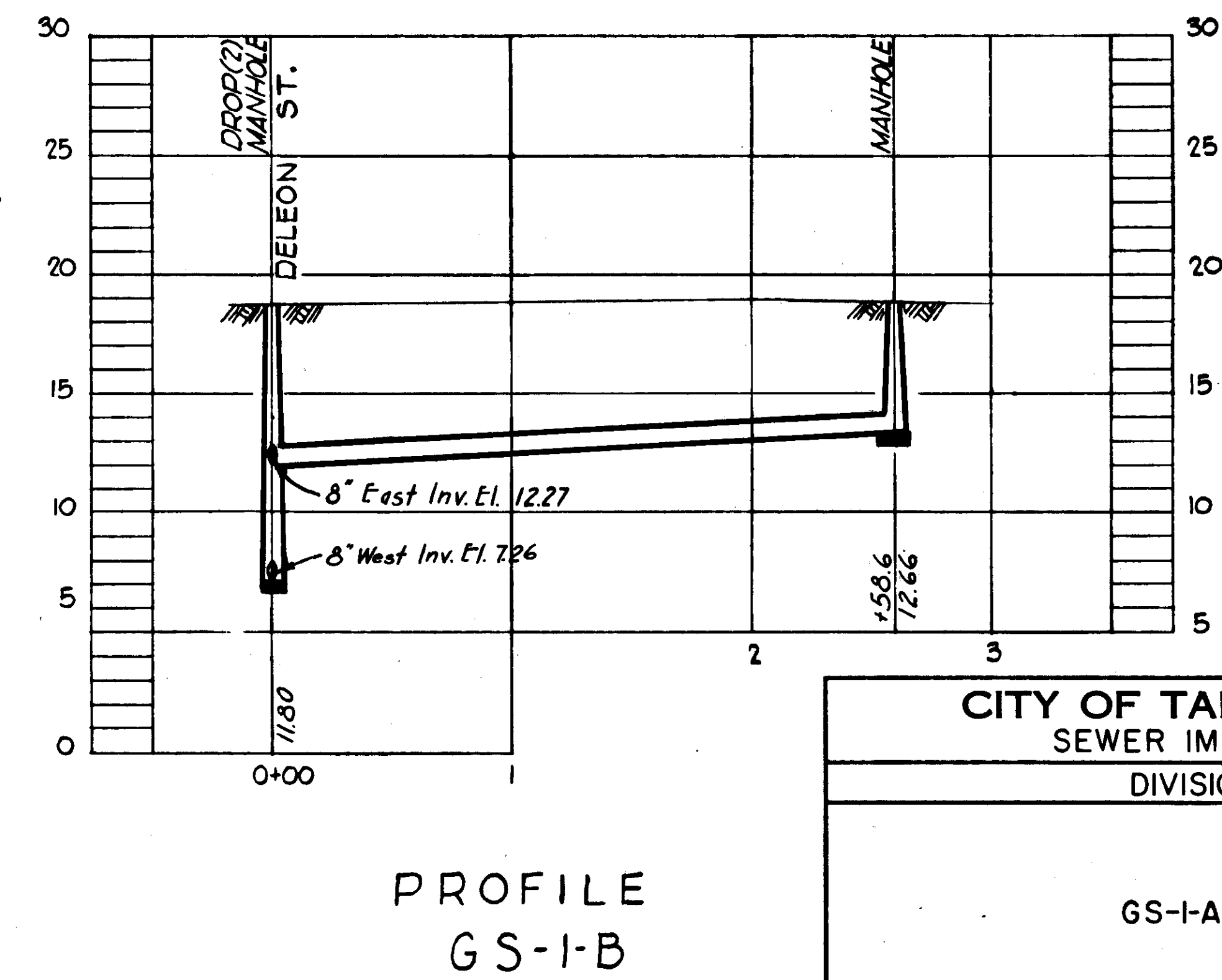
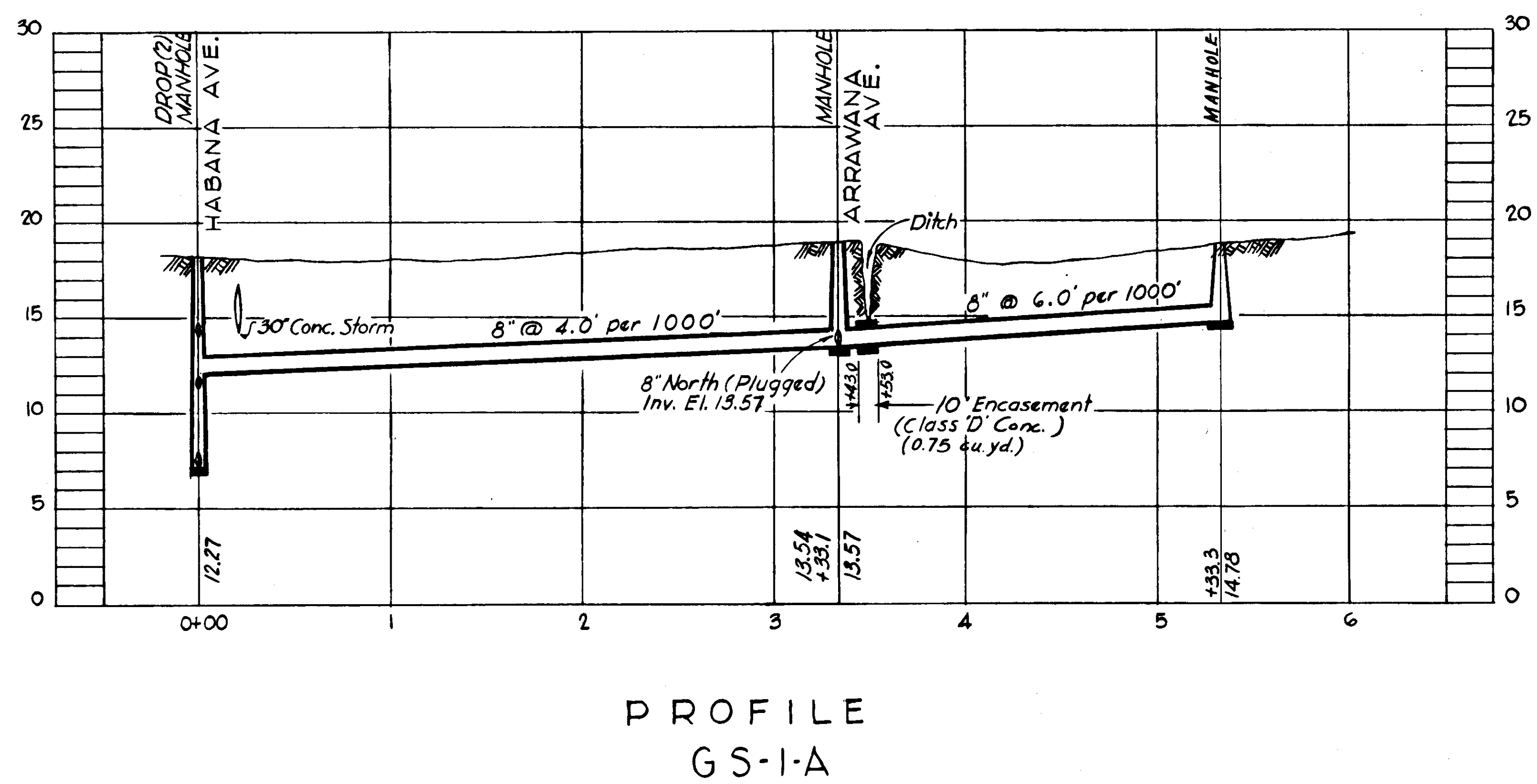
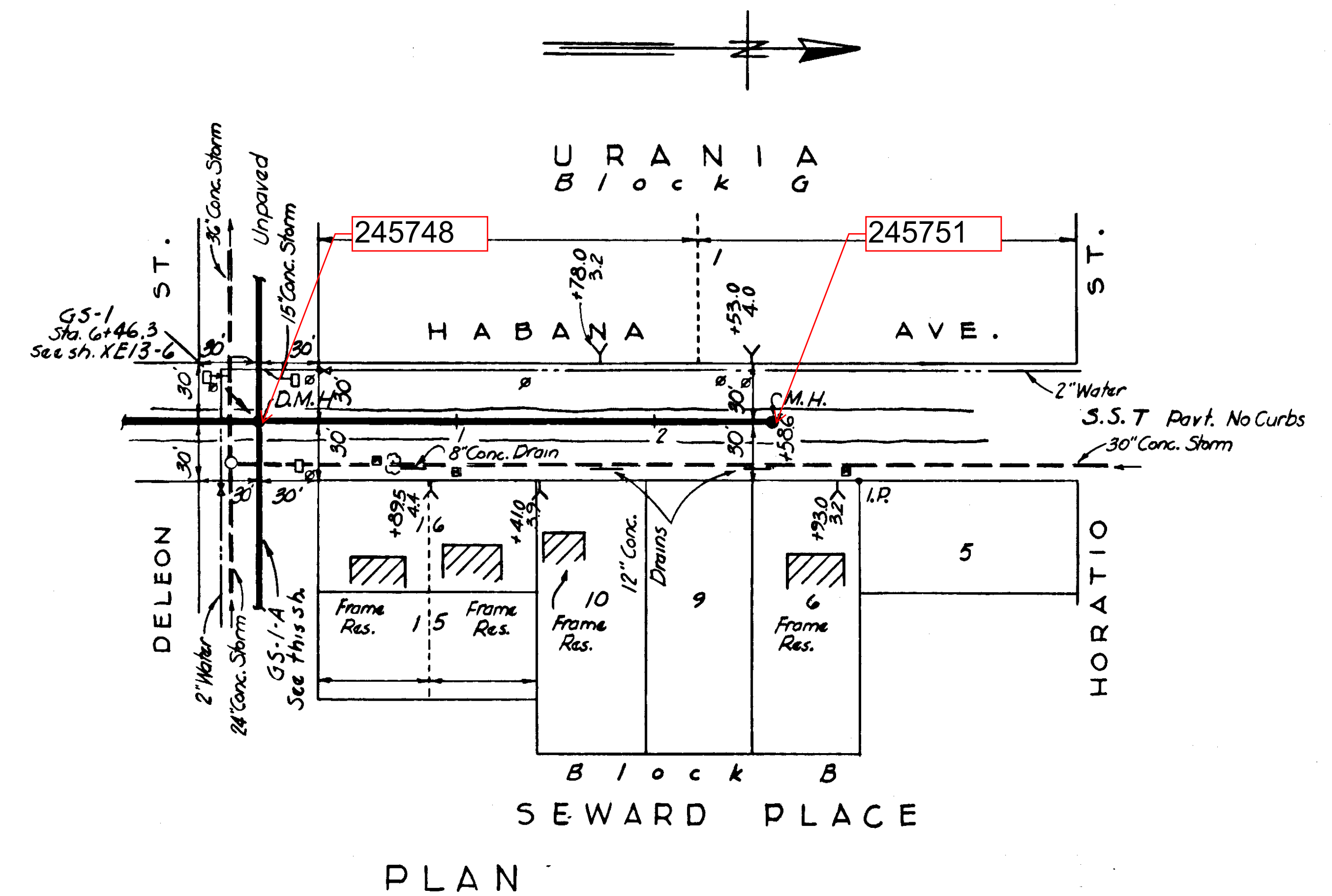
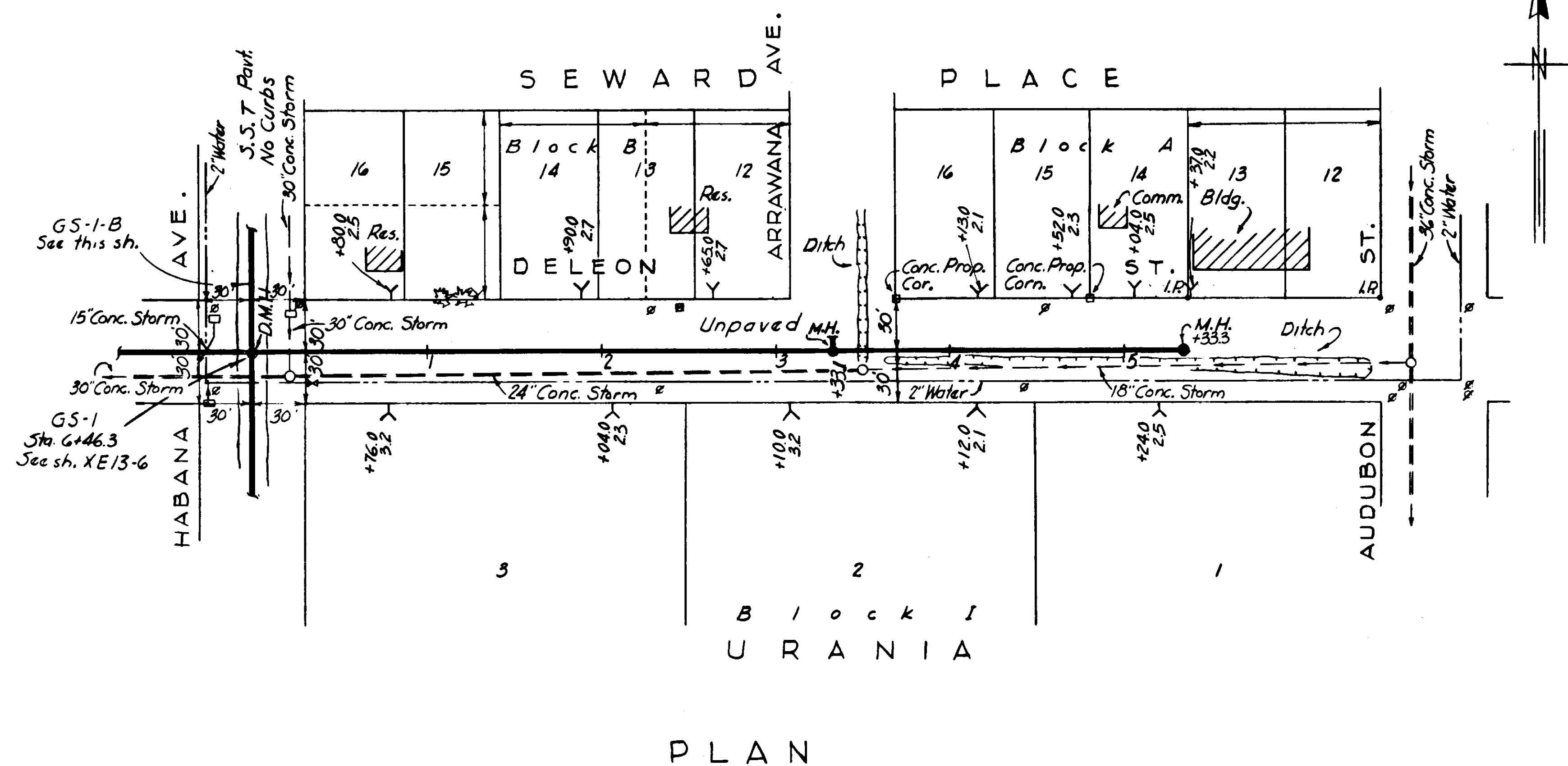
DEPARTMENT OF PUBLIC WORKS
FORCE ACCOUNT N° 4
WORK STARTED JUNE 22, 1951 - WORK COMPLETED JULY 2, 1951

DEPT OF PUBLIC WORKS
SEWER CONSTRUCTION OFFICE

AS-BUILT PLAN
Revised to show actual conditions according
to construction records as of June 23, 1951
(WAS 8/2/51)

CITY OF TAMPA, FLORIDA SEWER IMPROVEMENTS	
ADDITIONAL SEWER EXTENSIONS IN AREA 3	
Lx - 4 FA _x - 4	
SUBMITTED DEPT OF PUBLIC WORKS BY <i>R. Van Buren</i>	
APPROVED <i>Donald Newton</i> GREELEY AND HANSEN ENGINEERS	
DES JWH DR RMJ CKD WWS DATE	SCALE 50 0 50 100 1"=50'
SHEET 1 OF 1	

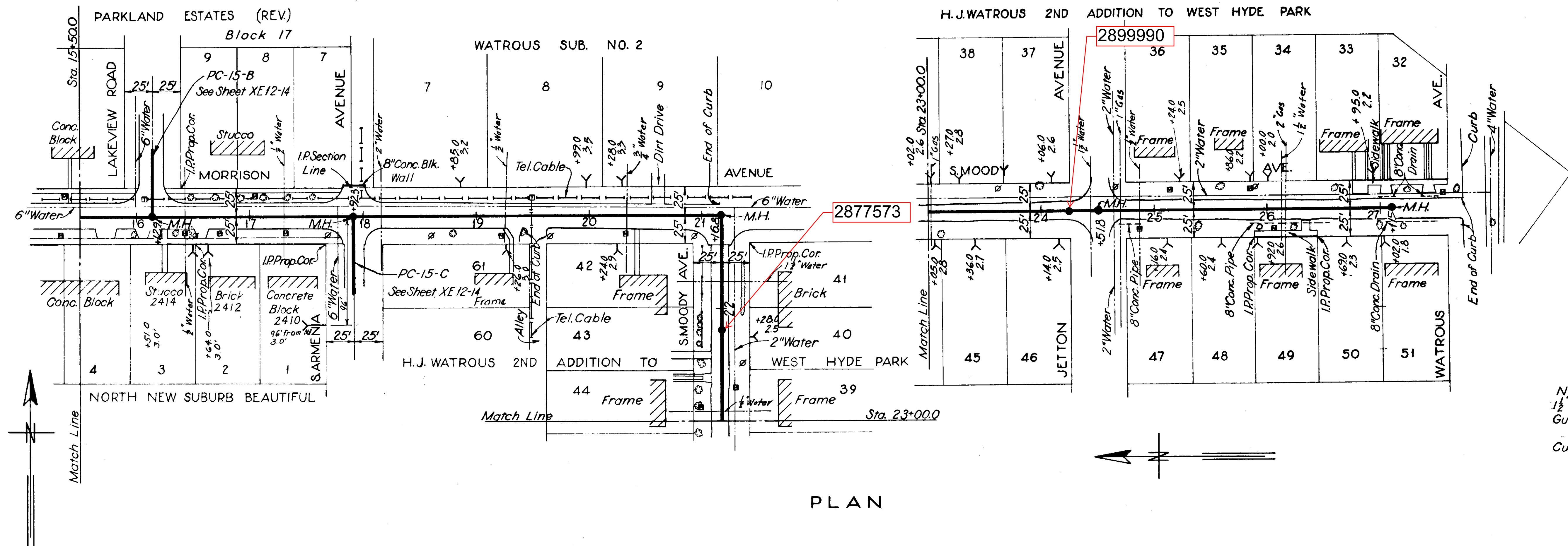
13-46



GREELEY AND HANSEN
ENGINEERS
CHICAGO, ILL.

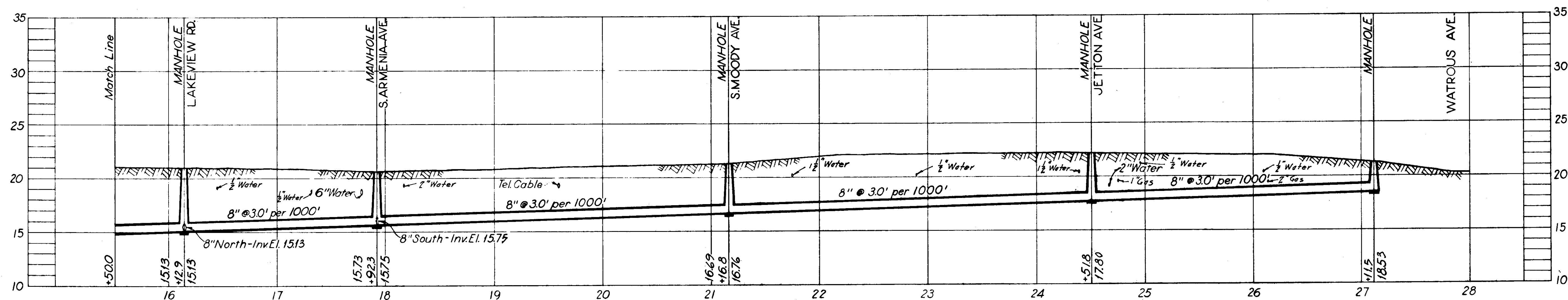
Revised to show actual conditions according
to construction record as of
(A.F.L. 5-2-56)

CITY OF TAMPA, FLORIDA		
SEWER IMPROVEMENTS		
DIVISION XE13		
GS-1-A & GS-1-B		
DES. C.M.T. DR. C.M.T. CKD. E.E.S. DATE: NOV 1954	SCALE 50 0 50 100 1" = 50'	SHEET XE13-8 OF 30



NOTE:
 1 1/2" Cold Mix (15' Width) Pavement with Concrete Curbs &
 Gutters from Sta. 15+50 to Sta. 21+40.
 1 1/2" Cold Mix (15' Width) Pavement and No
 Curbs or Gutters from Sta. 21+40 to Sta. 27+12.

PLAN



PROFILE
PC-15

GREELEY AND HANSEN
ENGINEERS
CHICAGO, ILL.

- AS-BUILT PLAN -
 Revised to show actual conditions according
 to construction record as of
 (A.F.L. 3-9-56)

CITY OF TAMPA, FLORIDA
SEWER IMPROVEMENTS

DIVISION XE12

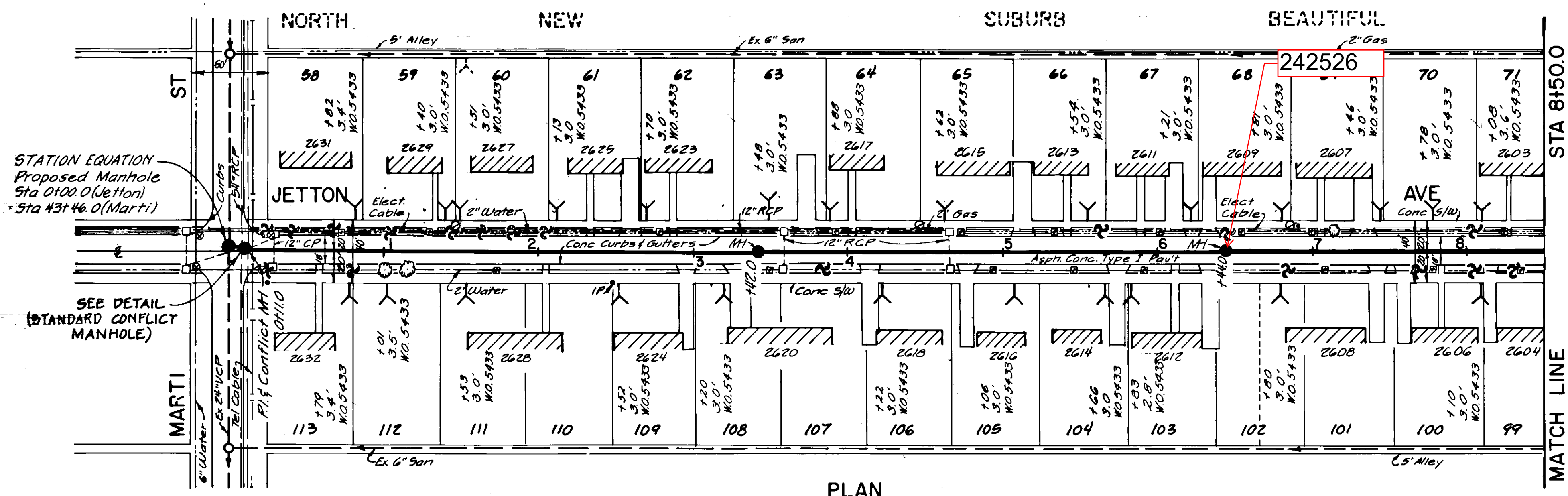
PC-15
STA. 15+50 TO STA. 27+11.7

DES. C.M.T.
DR. L.J.C.
CKD. R.E.F.
DATE:
OCT. 1954

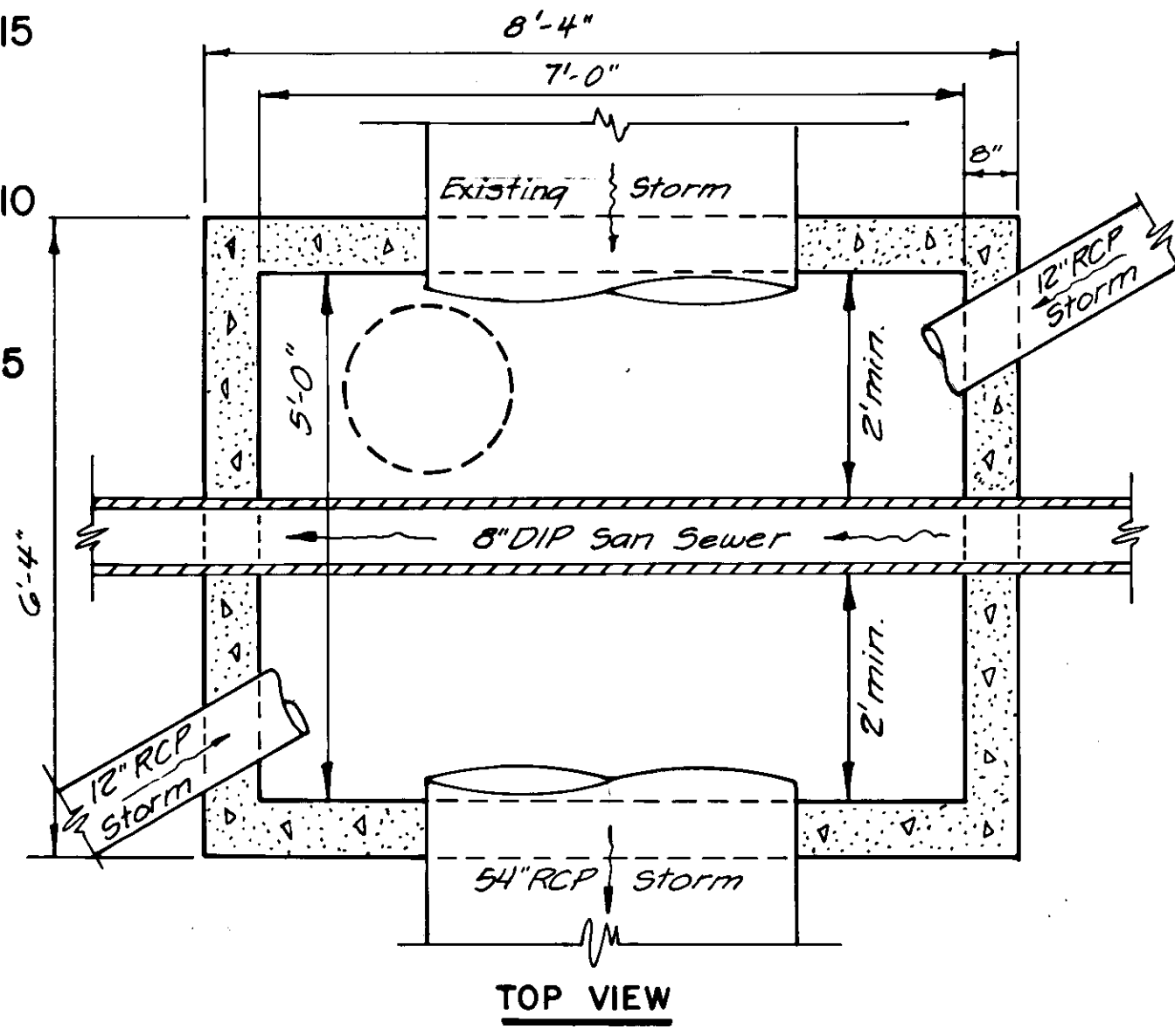
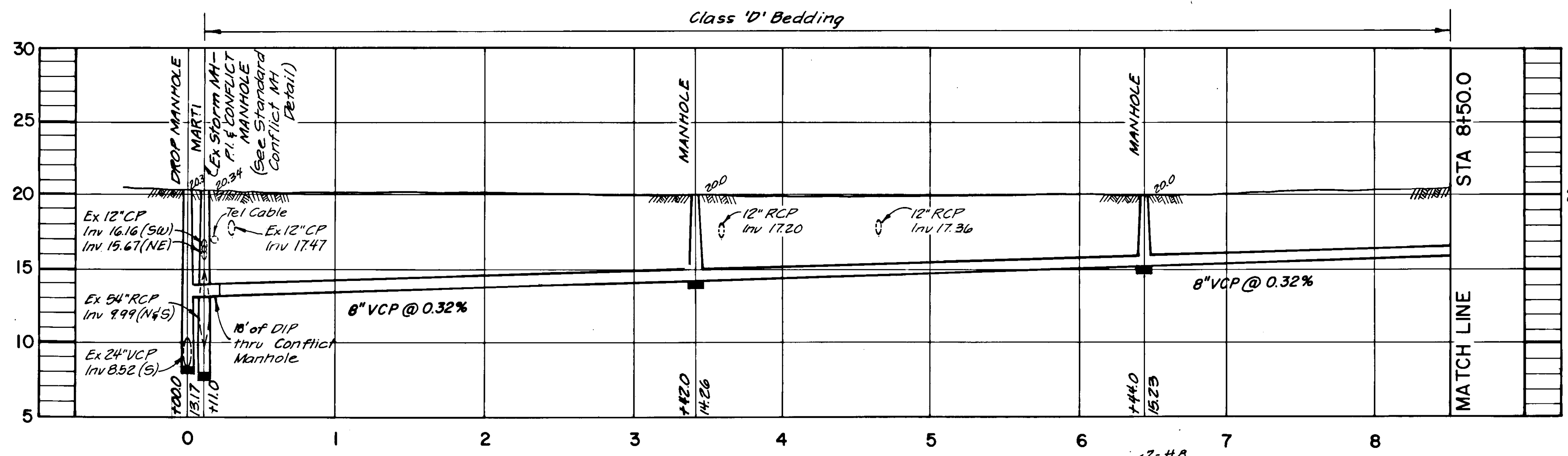
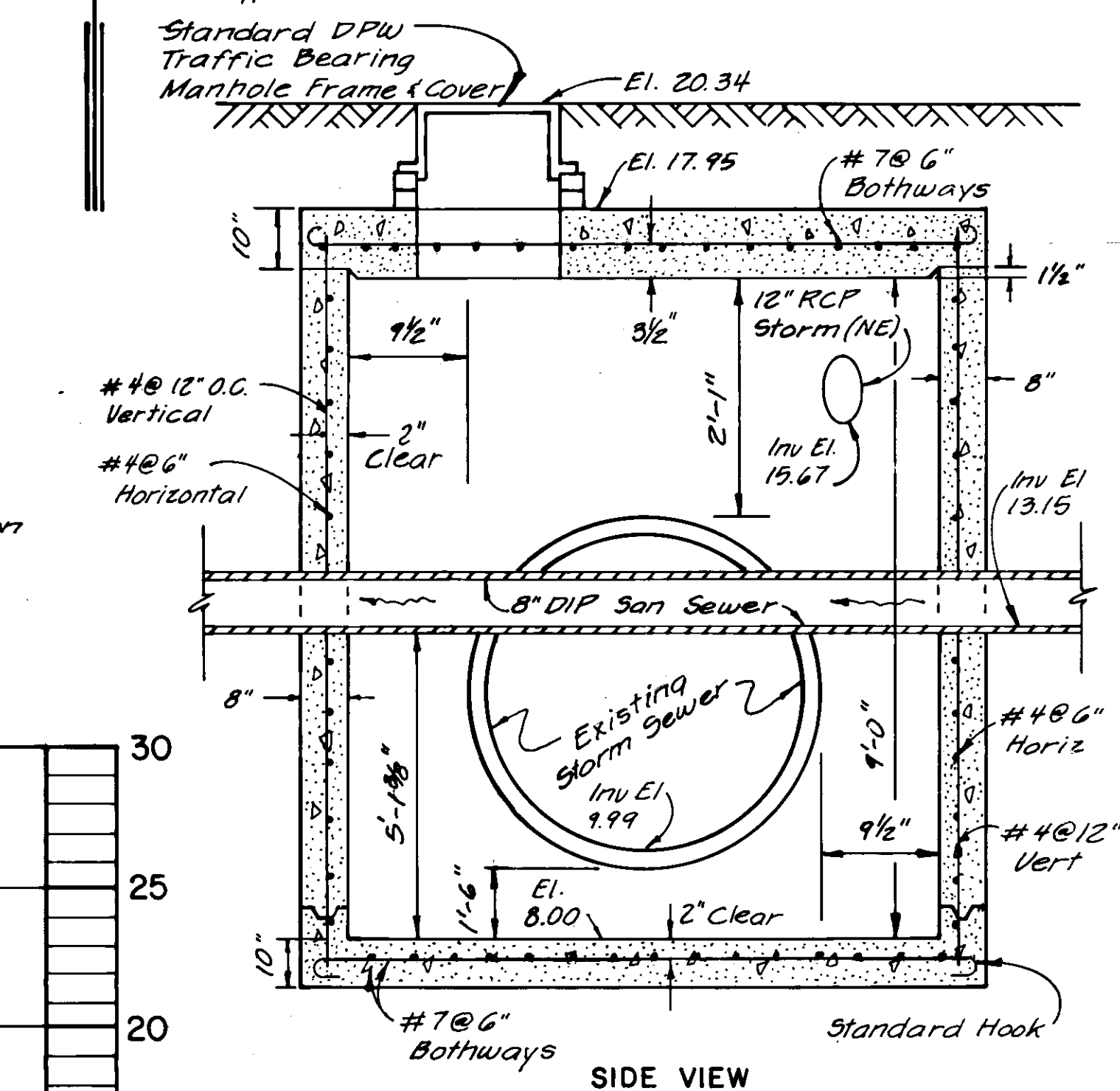
SCALE
50 0 50 100
1" = 50'

SHEET
XE12-10
OF 45

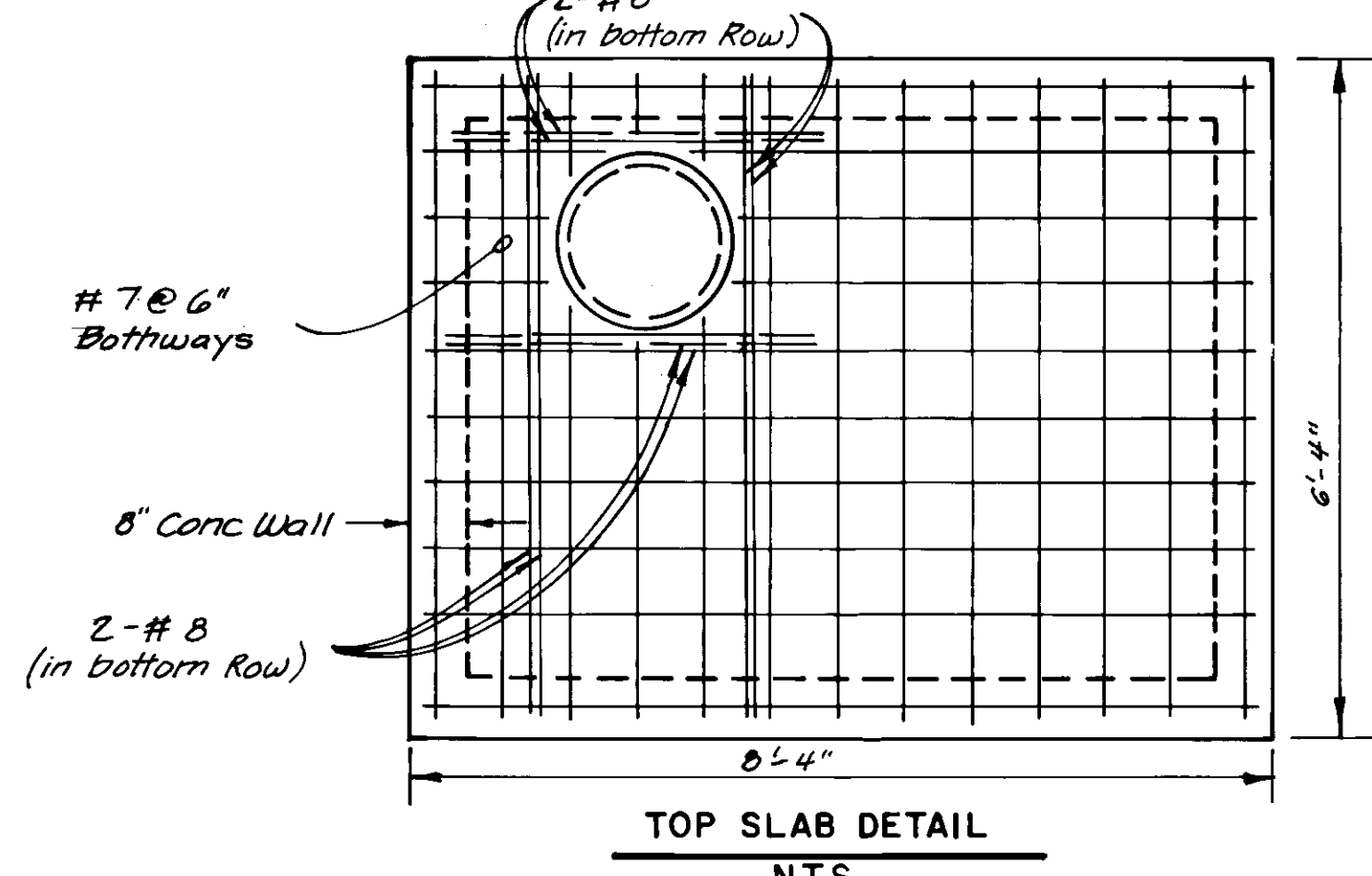
61-10



- NOTES**
1. All elevations are based on NOS Datum unless otherwise noted.
 2. Location of existing underground utilities was prepared from the most reliable information available. Verify the location and depth of all pertinent utilities prior to construction. Notify utility companies at least 48 hours prior to beginning construction.
 3. New house connections are representative only. Exact locations should be coordinated with the homeowner at the time of construction.
 4. Replace pavement full with Asphaltic Concrete Type I.

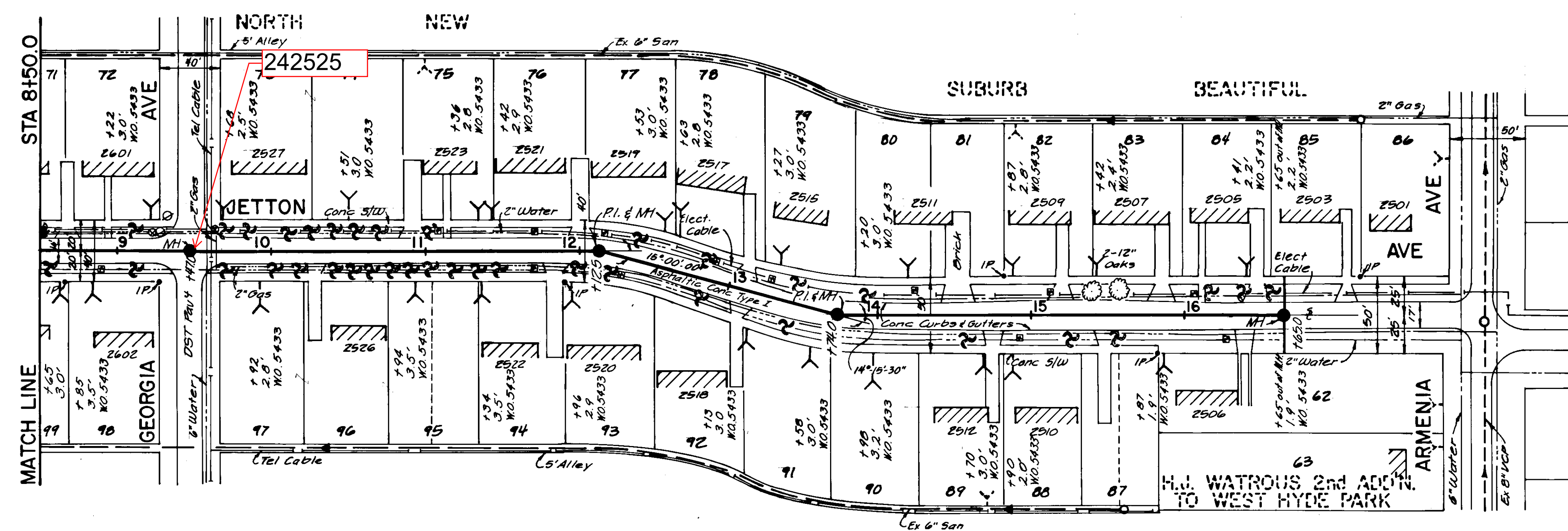


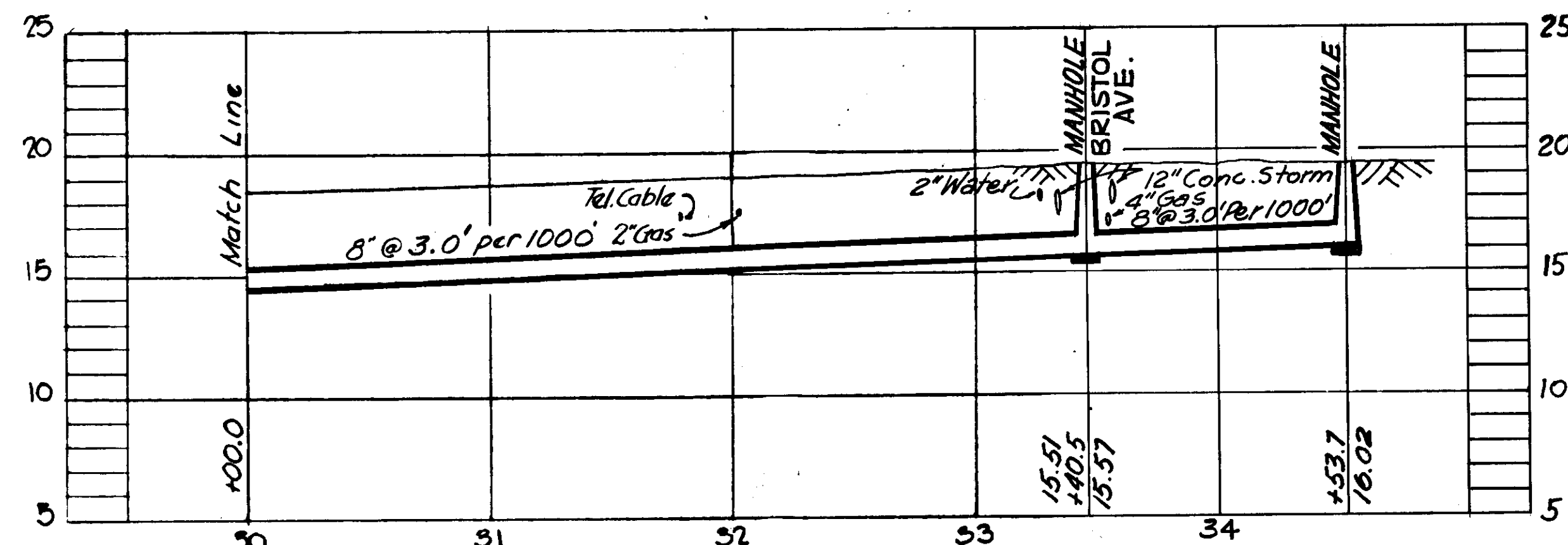
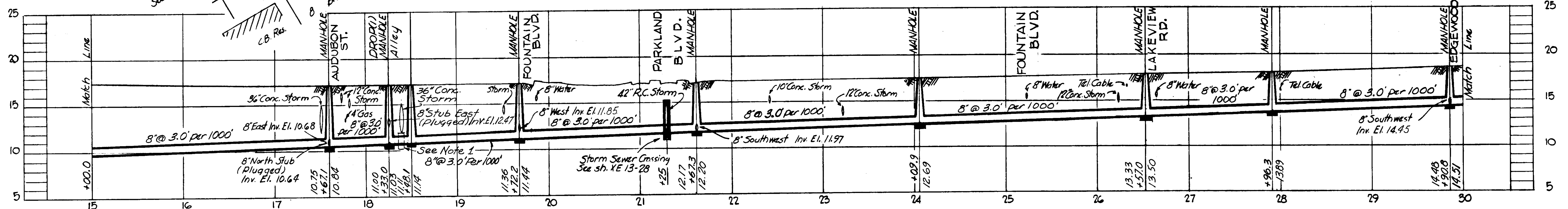
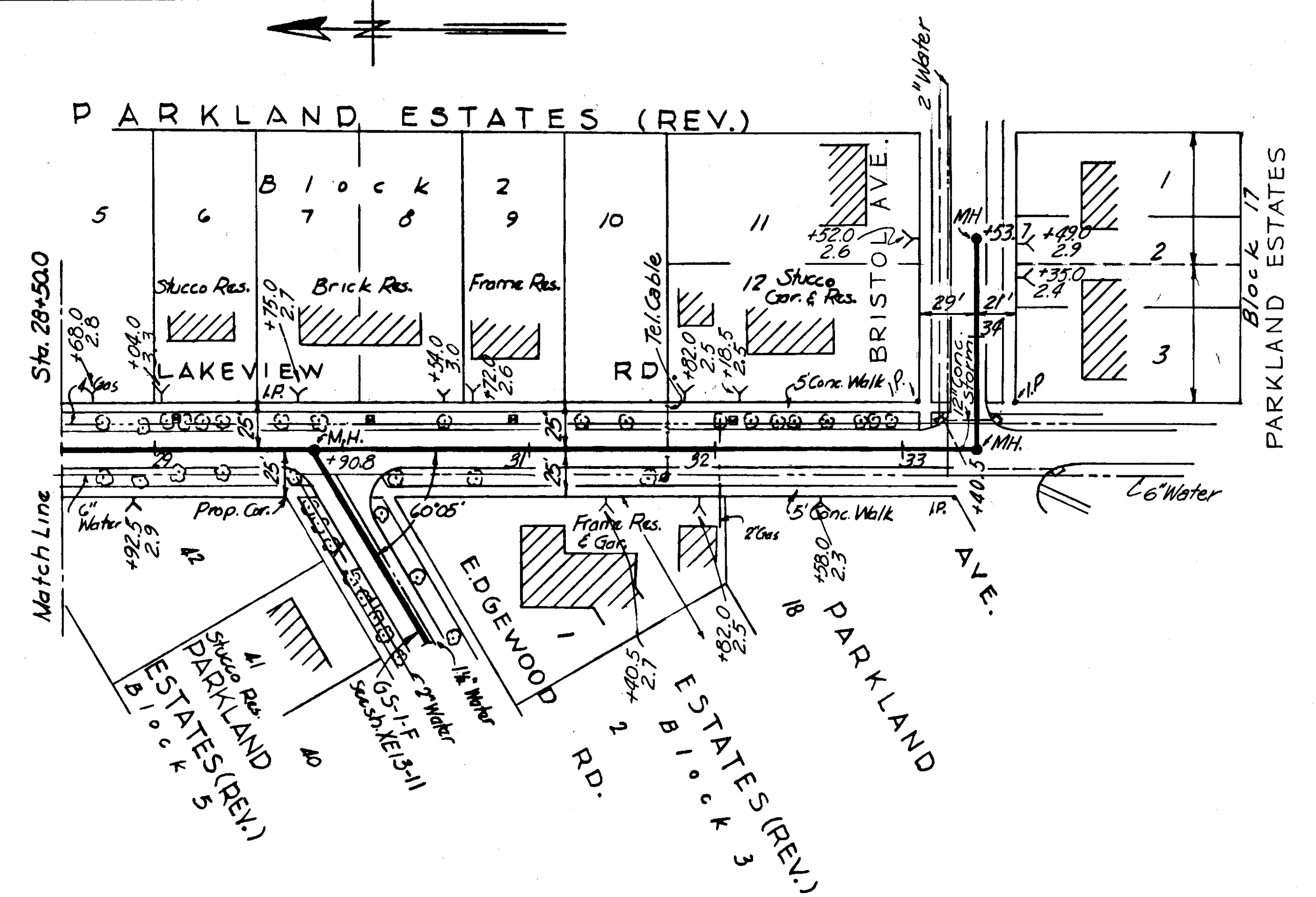
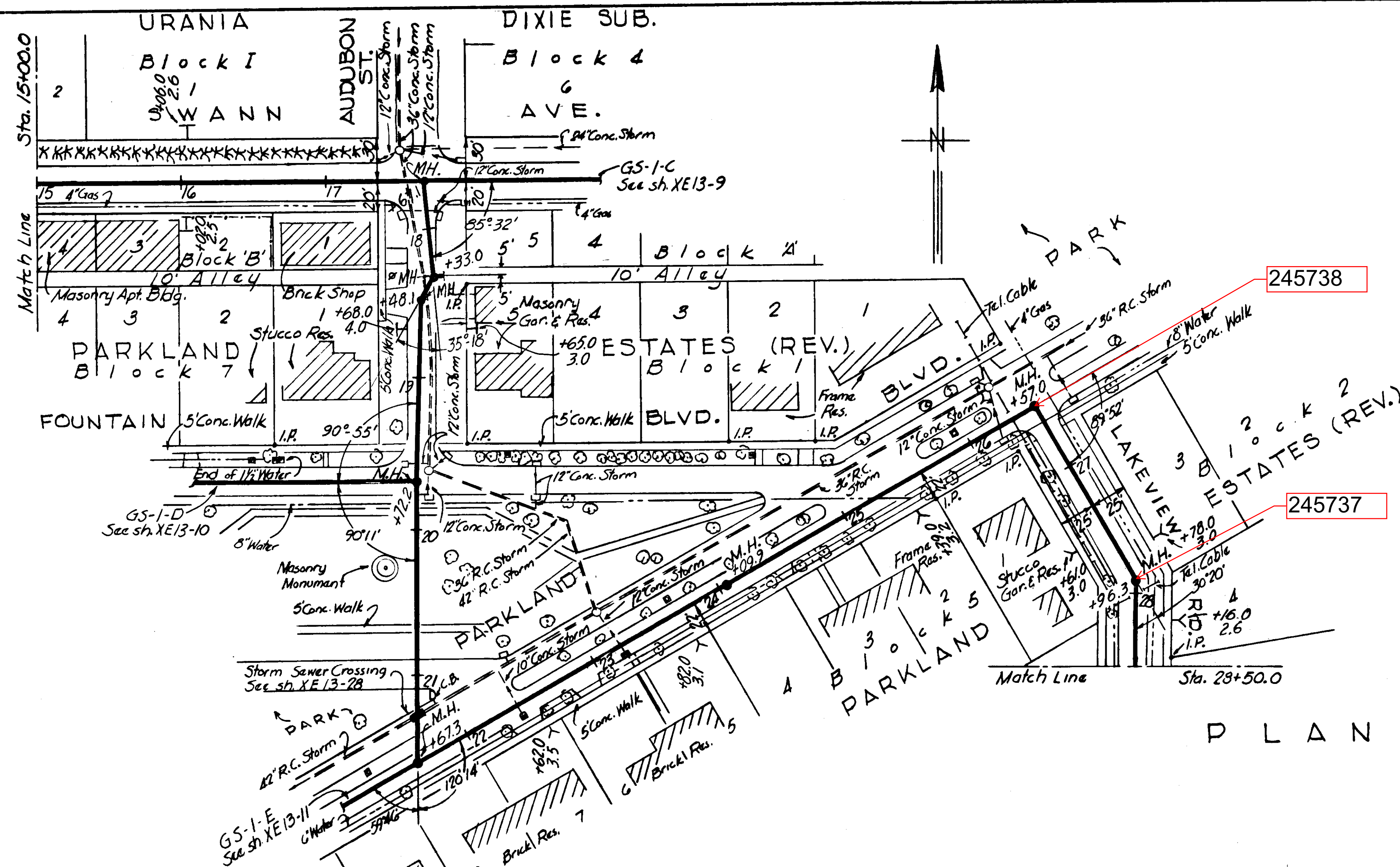
- CONFLICT MANHOLE NOTES**
1. Standard Conflict Manhole Type J-TT to be used.
 2. Top and floor slabs for Type J units and Type TT manhole tops shall be of Class II Concrete.



AS BUILT
 NO. 1 M.H. 9-15-80 C.W.V.

154-39





PROFILE
GS-1

NOTE:

- 1-14'-4" Length of C.I. Pipe with encasement (Class D conc.)
2. All paving Asph. Block with Conc. Curb & Gutter.
3. All paving replaced with 1 1/2" Cold Mix Pavement.

AS-BUILT PLAN
Revised to show actual conditions according to construction record as of (R.V.J. 5-3-56)

CITY OF TAMPA, FLORIDA
SEWER IMPROVEMENTS
DIVISION XE13

GS-1
STA.15+00 TO STA.32+16

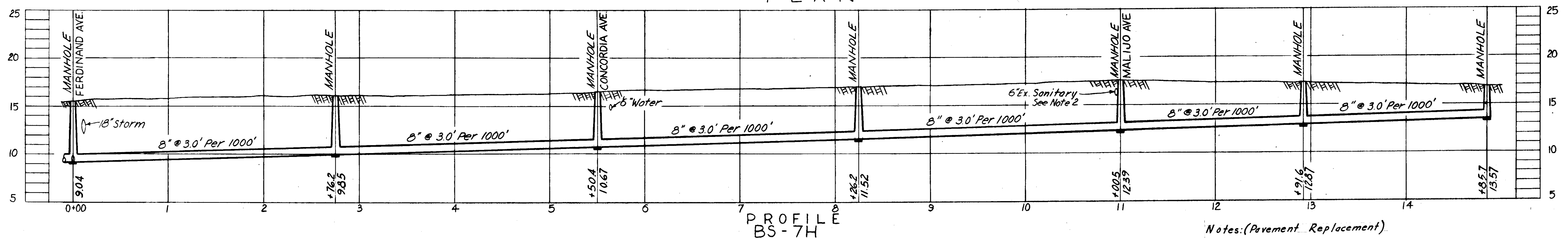
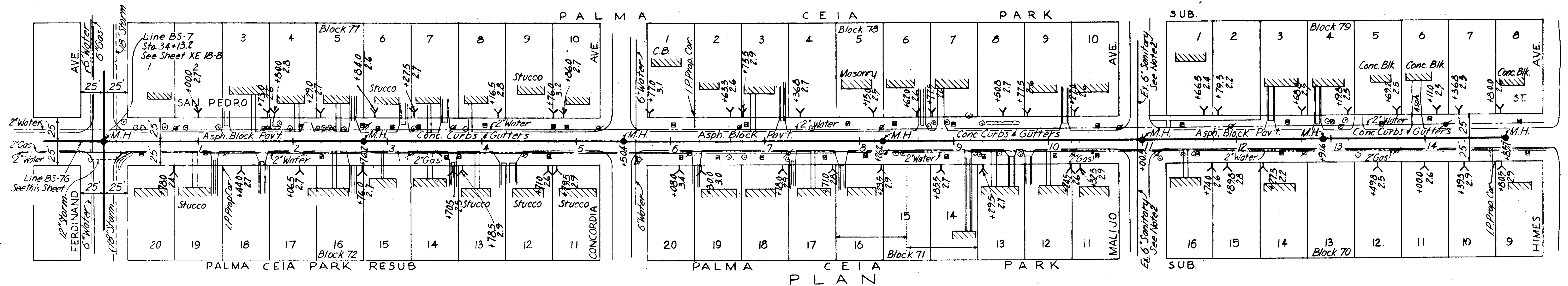
GREELEY AND HANSEN
ENGINEERS
CHICAGO, ILL.

DES. C.M.T.
DR. C.M.T.
CKD. E.E.S.
DATE:
NOV. 1954

SCALE
50 0 50 100
1"=50'

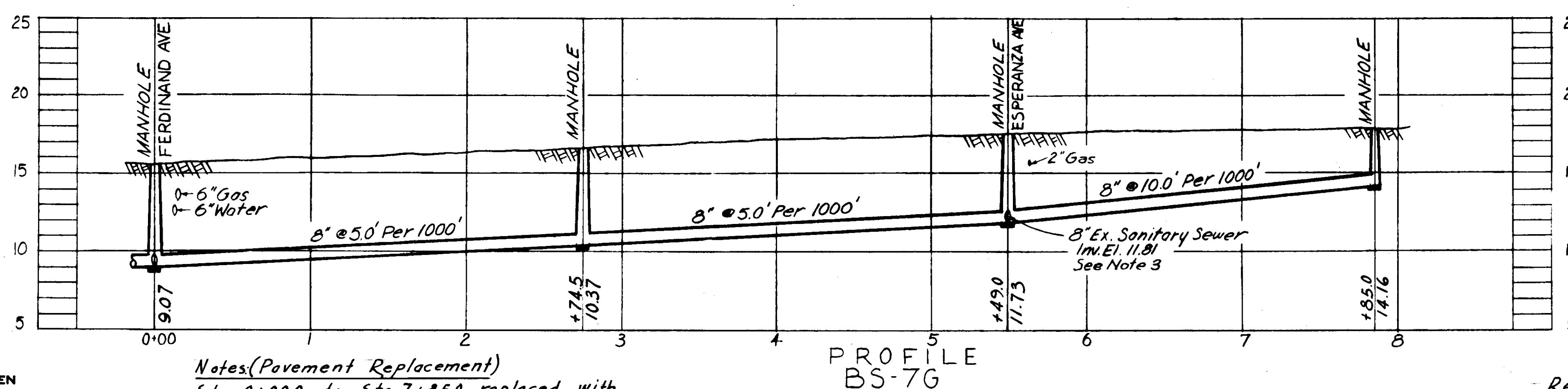
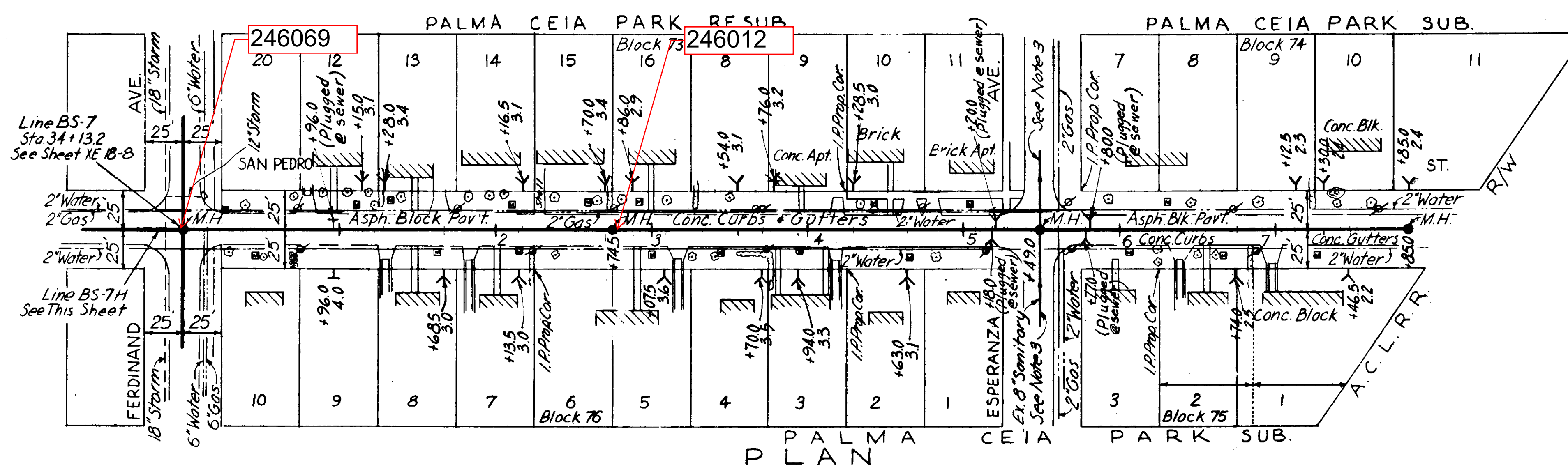
SHEET
XE13-7
OF 50

62-7



Notes: (Pavement Replacement)

Sta. 0+00.0 to Sta. 14+85.7 replaced with Single Surface Treatment Pavt.



Notes: (Pavement Replacement)

Sta. 0+00.0 to Sta. 7+85.0 replaced with Single Surface Treatment Pavement.

NOTES:

1. All driveways are concrete and all homes frame unless otherwise noted.
2. Ex. Sanitary Sewer on MALIJO AVE. from OBISPO ST. to SAN JUAN ST. to be abandoned.
3. Carry Ex. 8" Sanitary Sewer through new Manhole until Sewer BS-76 is placed in service, then break out existing 8" line in manhole and plug outlet to the north.
4. Property Lines as indicated by Hillsborough County Tax Records.

GREELEY AND HANSEN
ENGINEERS
CHICAGO, ILL.

-AS-BUILT PLAN-

Revised to show actual conditions according to construction record as of (A.F.L. 10-23-56)

CITY OF TAMPA, FLORIDA
SEWER IMPROVEMENTS

DIVISION XE18

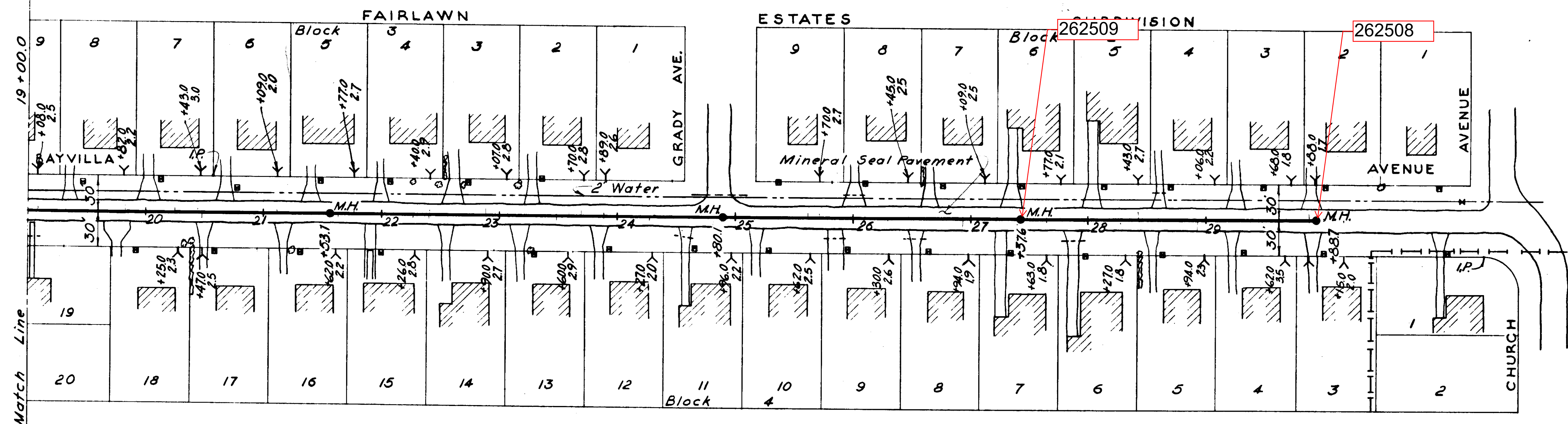
BS-76 & BS-7H

DES. R.B.D.
DR. M.R.
CKD. R.E.F.
DATE: JUNE 1955

SCALE
50 0 50 100
1"=50'

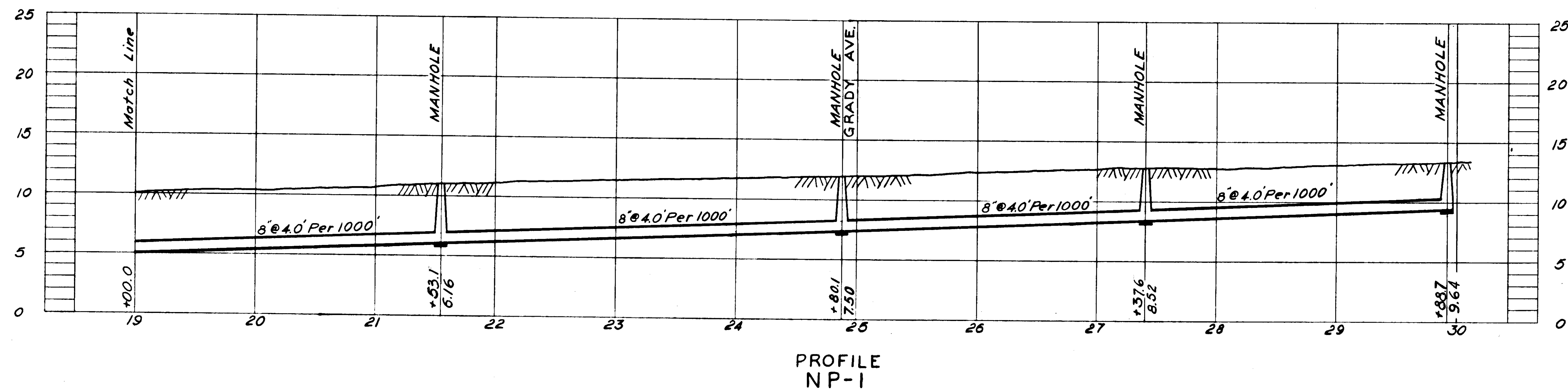
SHEET
XE18-19
OF 40

67-19



PLAN

Note:
Bayvilla Avenue - Clark Ave. to Sta. 29+88.7
replaced with Shell Base Single Surface Treatment.



NOTES:
1. All houses shown on this sheet are of concrete block construction.

- AS-BUILT PLAN -

Revised to show actual conditions according to construction record as of (A.F.L. 7-13-56)

CITY OF TAMPA, FLORIDA
SEWER IMPROVEMENTS

DIVISION XE15

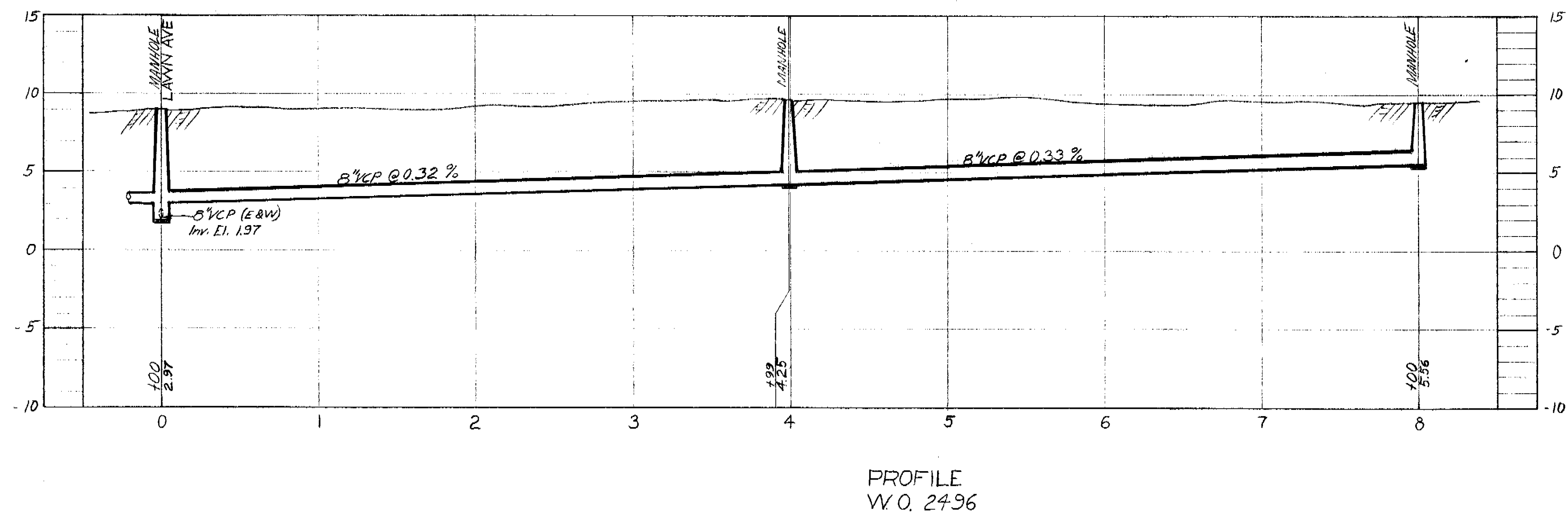
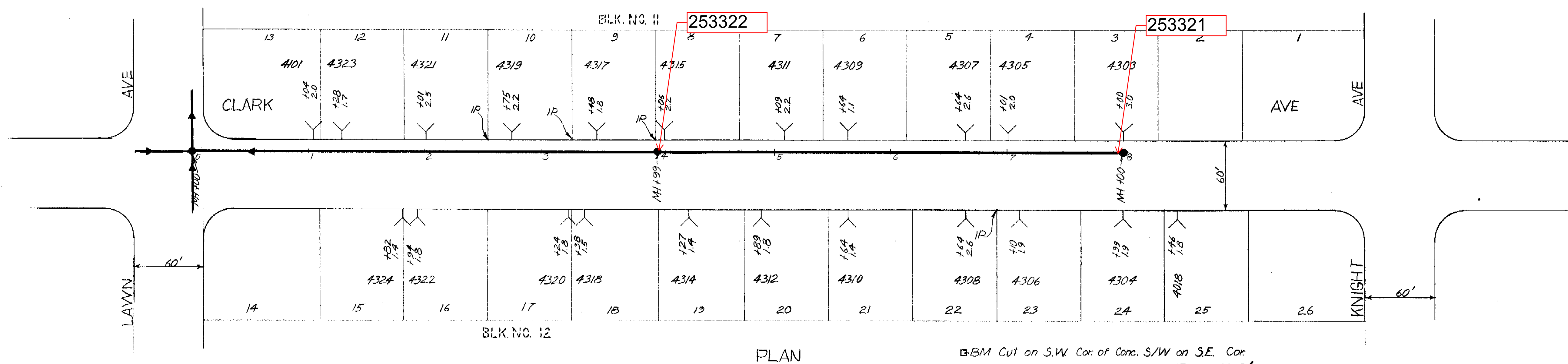
NP-1
STA. 19+00 TO STA. 29+88.7

DES. R.E.F.
DR. W.M.
CKD. Z.E.T.
DATE:
NOV. 1954

SCALE
50 0 50 100
1" = 50'

SHEET
XE15-4
OF 30

MANHATTAN MANOR REVISED



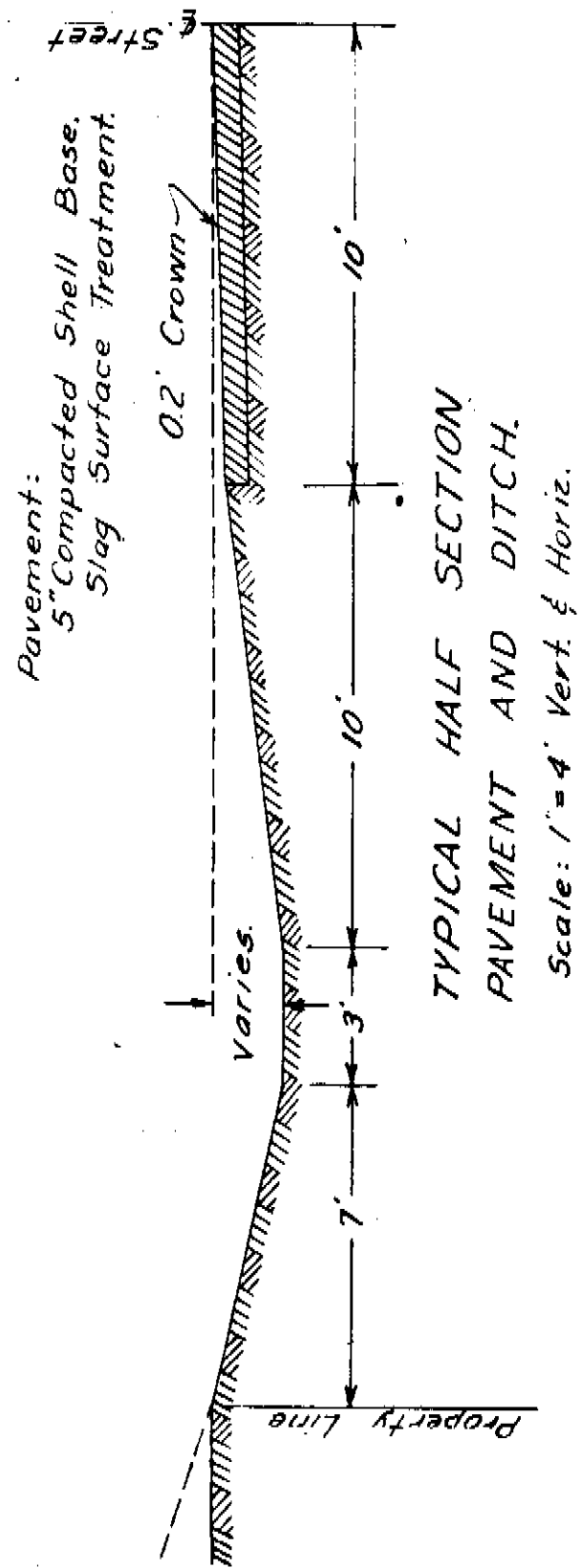
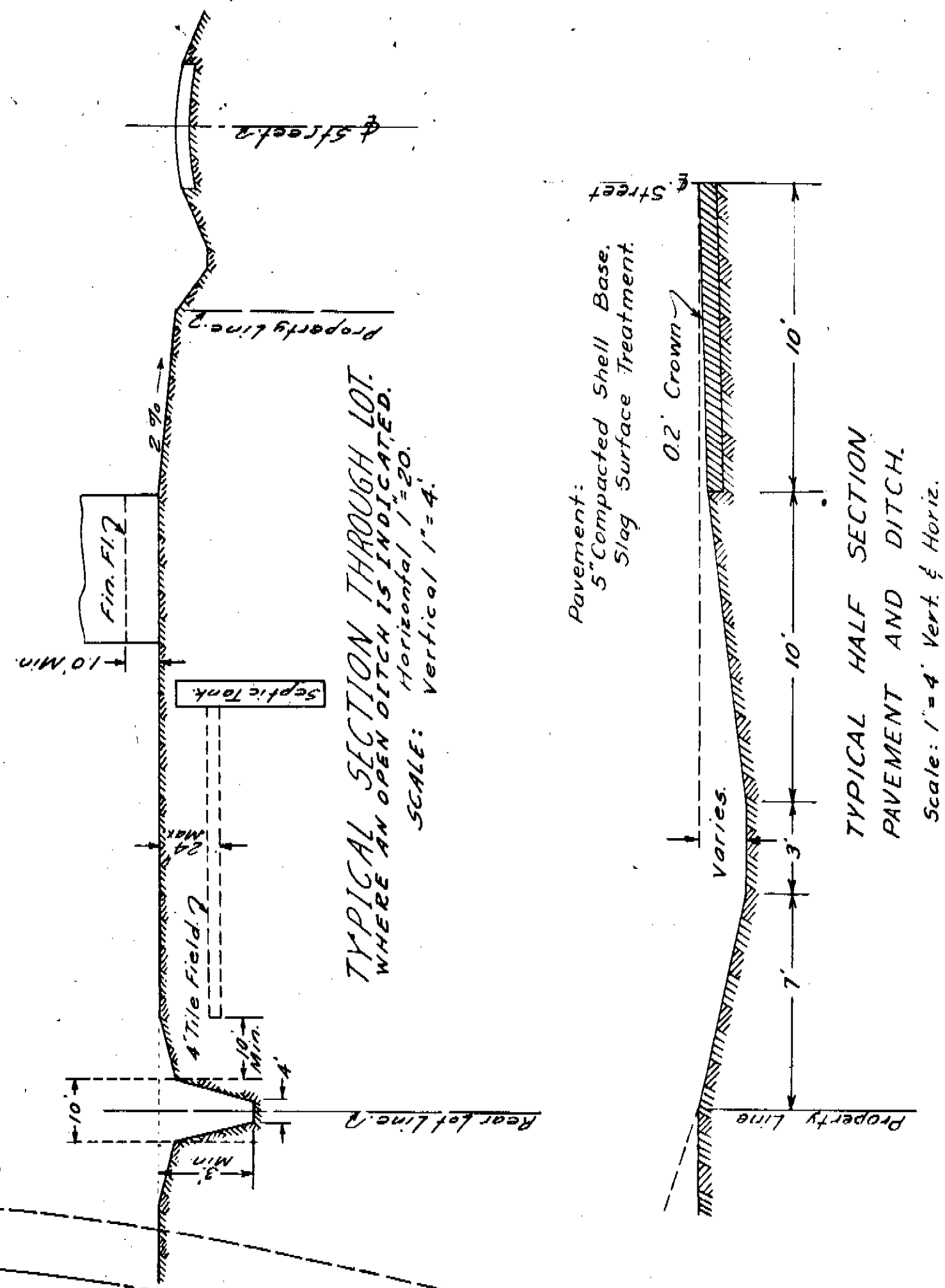
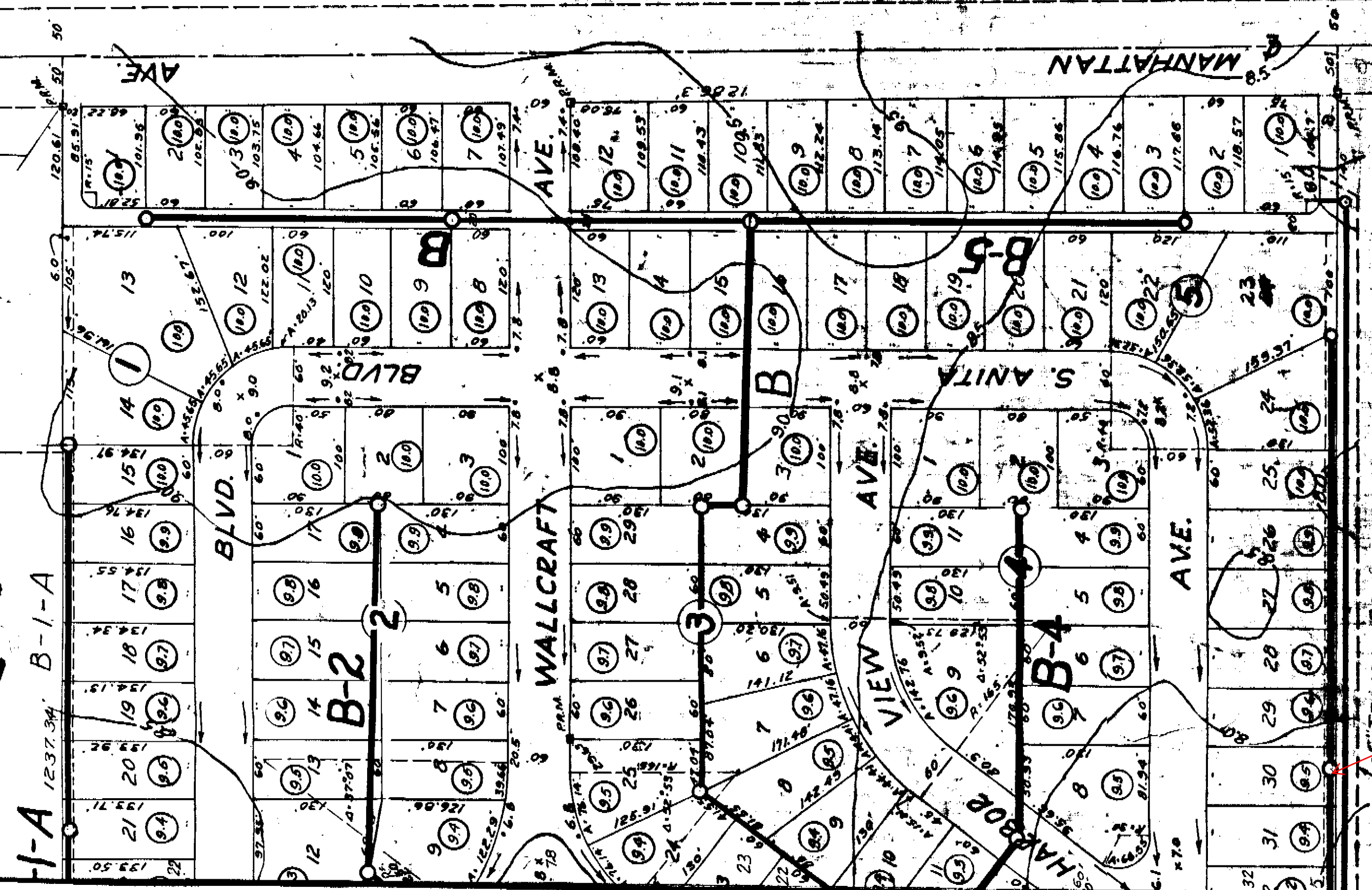
LINE # 9

DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA RENEWAL & REPLACEMENT SEWER IMPROVEMENTS		
CLARK AVE: Lawn Ave. to Knight Ave.		
DES: DRN:LRB CHK: DATE OCT 1974	SCALE 50 0 50 100 1" = 50'	SHEET 9 OF 15

17-19 I

18-1
ANITA SUBDIVISION
West Portion
(See Next Sheet for East Portion)

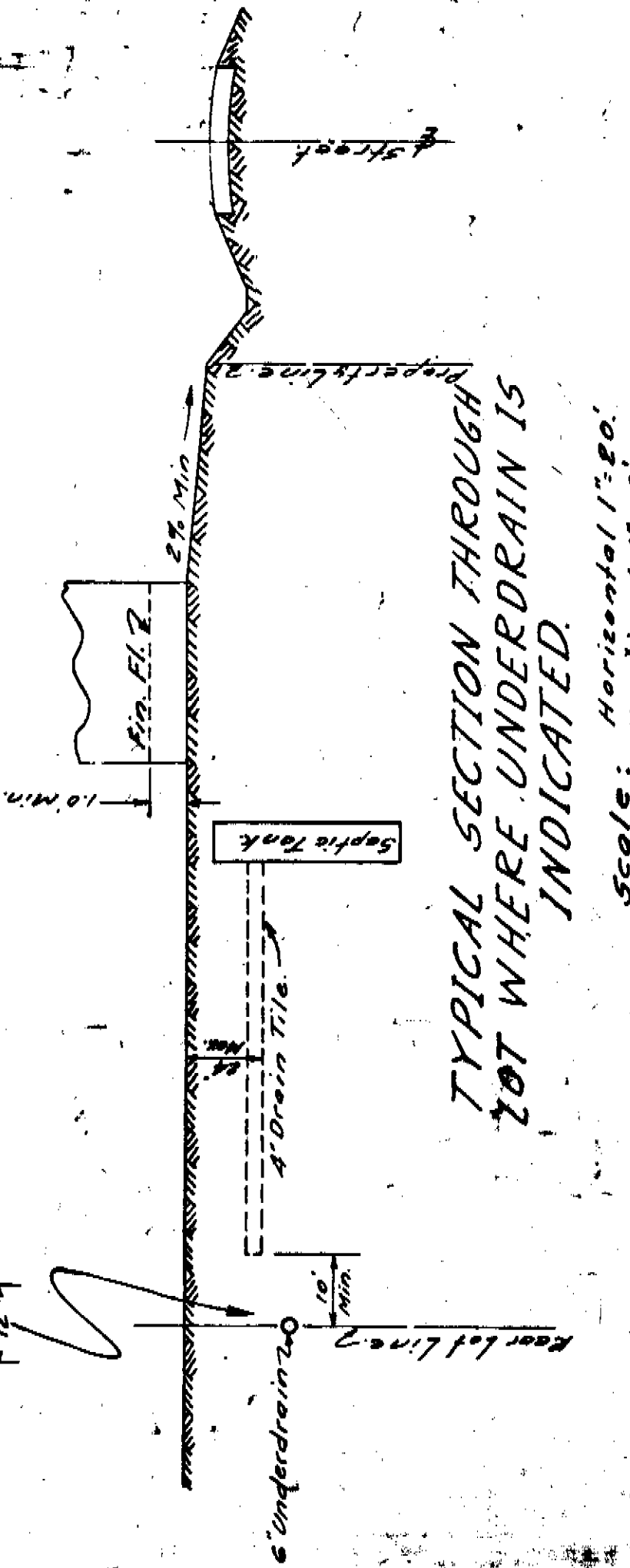
ANITA SUBDIVISION East Portion (See Preceding Sheet for West Portion)



NOTES:

- Elevations refer to U.S.C. & G.S. mean sea level. (Elev. 4.9)
- Underdrain.
- Culvert pipes shall be copper steel, asphalt coated semi-elliptical arch pipe, unless otherwise noted. (22'x13')
- Catch Basin.
- 32" Ditch elevation.
- Finished elevation, crown of pavement.

Design elevation of finished floor of house also 10' above design ground elevation of block. Finished floor elevation may be modified if necessary but design ground elevation must be maintained.



ANITA SUBDIVISION

In the NE 1/4 of Sec. 5 - T30S - R18E - Tampa, Fla.

Topographic map showing Grade, Drainage and Pavement Design.

Date: Nov. 28, 1950. (Blocks 11, 12 and North 1/2 10.) Scale as shown
Date: July 11, 1951. (Blocks 1, 9, 10 and South 1/2 10.)
Date: April 24, 1951. (Sewage Collection System.)
Prepared by: Alan B. Plimm - Reg. Engr. #23

SHEET 2 of 4

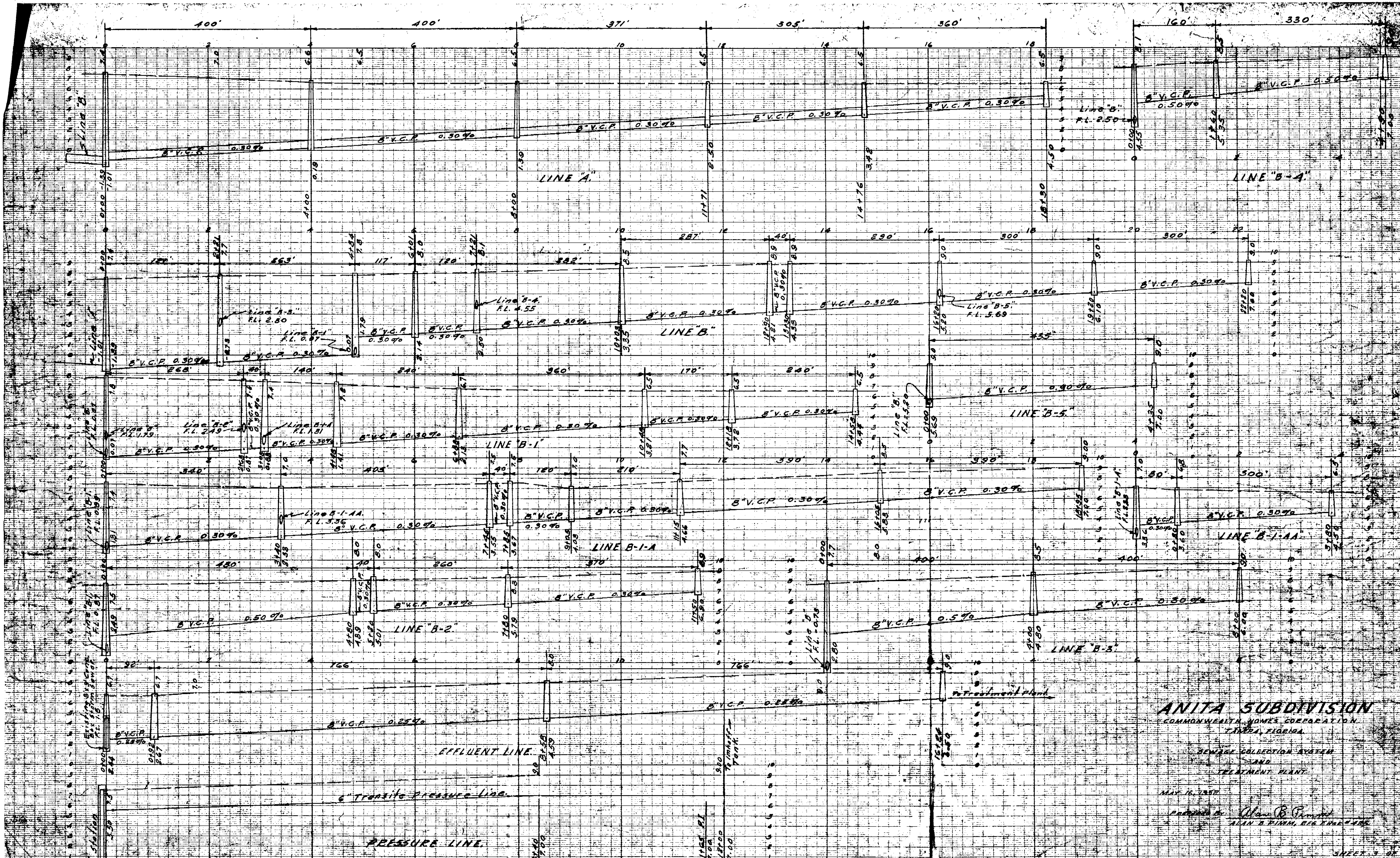
Plan Approved Nov. 28, 1950
For Blocks 11, 12 and North 1/2 10.

Approved July 11, 1951
For Blocks 1, 9, 10 and South 1/2 10.

EW. Carroll - County Engineer
Hillsborough County, Florida

EW. Carroll - County Engineer
Hillsborough County, Florida

258926



ANITA SUBDIVISION
COMMONWEALTH HOMES CORPORATION
TALLAHASSEE, FLORIDA

SEWER COLLECTION SYSTEM
AND
TREATMENT PLANT

MAY 16, 1957

DESIGNED BY *Wm. B. Powell*
ALAN A. FIMM, REGISTERED ENGINEER

SHEET 3 OF 3

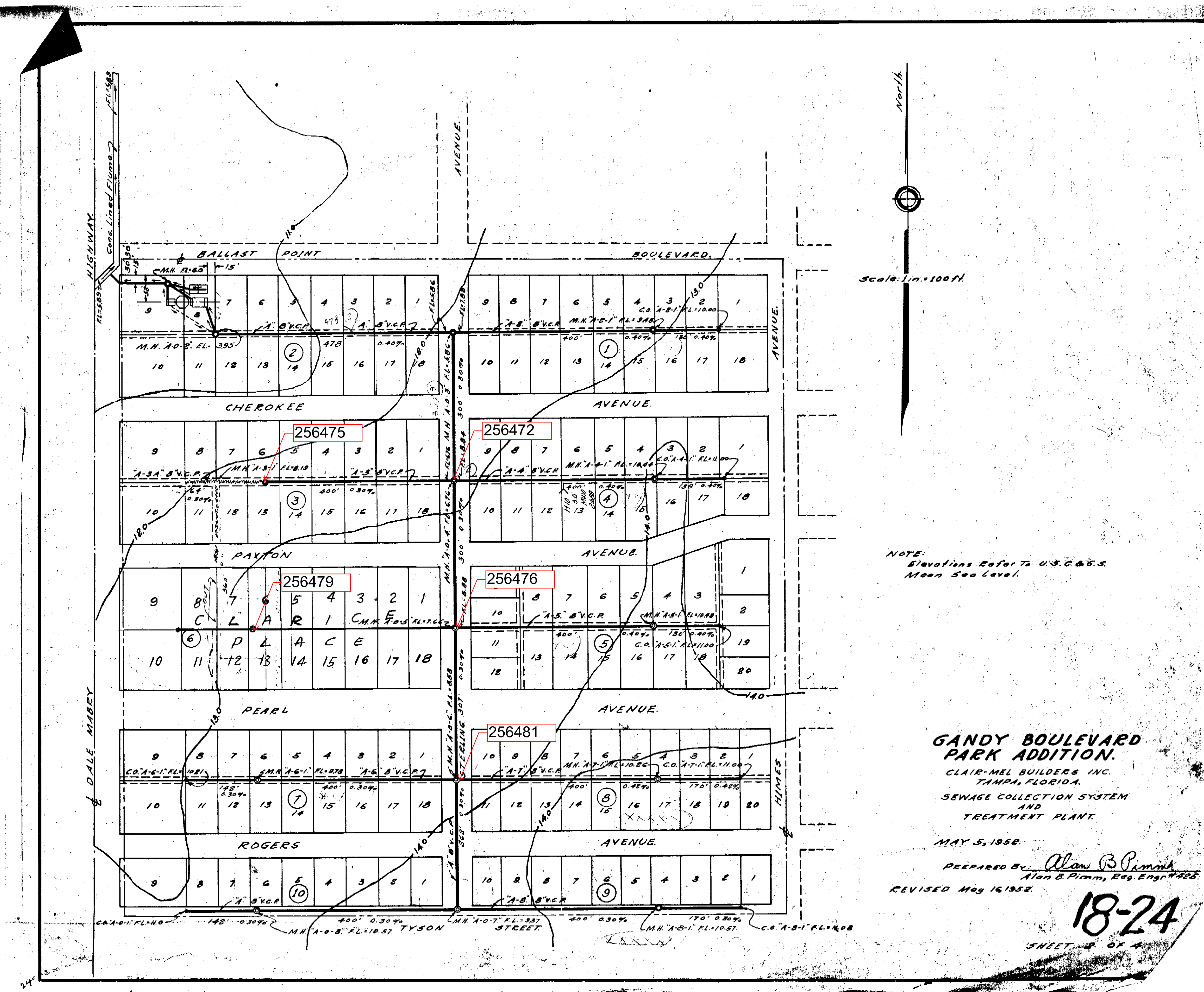
PRINTED IN U.S.A.
ON 100% RAG PAPER MADE IN U.S.A.

Sanitary Sewer
Profile
Plate A
EUGENE DUFFY & CO.

PRINTED IN U.S.A.
ON 100% RAG PAPER MADE IN U.S.A.

Sanitary Sewer
Profile
Plate A
EUGENE DUFFY & CO.

187



Scale: 1 in. = 100 ft.

NOTE:
Elevations Refer To U.S.C. & G.S.
Mean Sea Level.

GANDY BOULEVARD PARK ADDITION.

CLAIR-MEL BUILDERS INC.
TAMPA, FLORIDA.

SEWAGE COLLECTION SYSTEM
AND
TREATMENT PLANT.

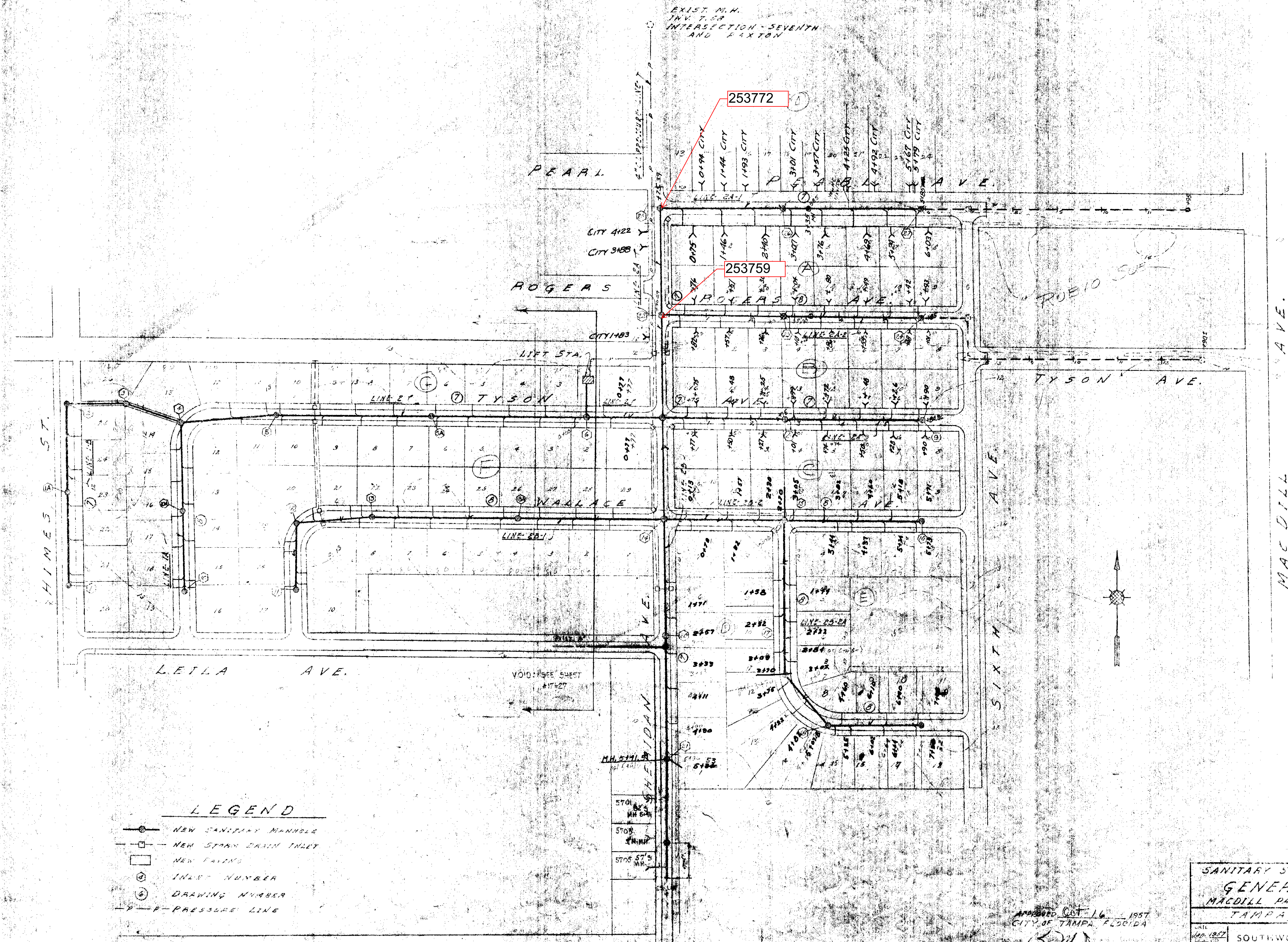
MAY 5, 1958.

PREPARED BY: Alan B. Pimm
Alan B. Pimm, Reg. Engr. #466.

REVISED May 16, 1958.

18-24

SHEET 2 OF 4



LEGEND

- NEW SANITARY MANHOLE
- NEW STORM DRAIN INLET
- NEW PAVEMENT
- INLET NUMBER
- DRAWING NUMBER
- P-PRESSURE LINE

SANITARY SEWERAGE FACILITIES
GENERAL LAYOUT
MACDILL PARK SUBDIVISION
TAMPA, FLORIDA

SOUTHWORTH ASSOCIATES
ARCHITECTS - ENGINEERS - SURVEYORS
TAMPA - ST. PETERSBURG - PALM BEACH
DATE: 1/10/57
FILE NO: 57-106
SCALE: 1"=40'

APPROVED OCT 16 1957
CITY OF TAMPA, FLORIDA

B. M. DUNCAN, Superintendent
Bureau of Sanitary Sewers

