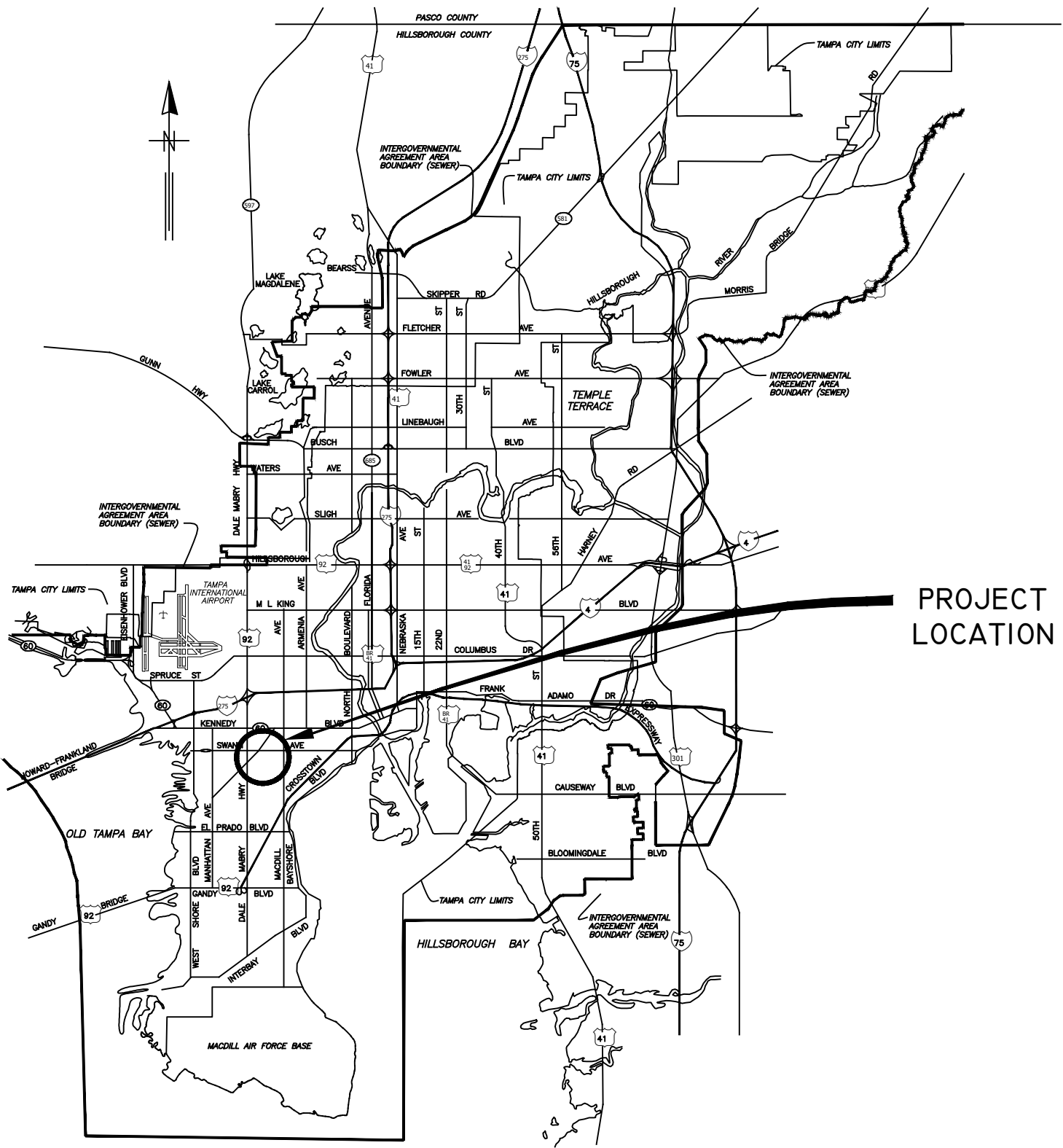


LOCATION MAP



PROJECT LOCATION

# CITY of TAMPA



## WASTEWATER DEPARTMENT

### PLANS FOR GOLFVIEW GRAVITY SEWER SYSTEM REHABILITATION BY CIPP LINING

CONTRACT NO.  
23-C-00032

NOTE:  
ATTENTION IS DIRECTED TO THE FACT THAT  
THESE PLANS MAY HAVE BEEN REDUCED IN  
SIZE BY REPRODUCTION. THIS MUST BE  
CONSIDERED WHEN OBTAINING SCALED DATA.

User: sst5 Drawing Name: K:\Wastewater Projects\Golfview Gravity Sewer Rehabilitation by CIPP\Drafting\DWG\Golf Gravity Sewer System Rehabilitation by CIPP.dwg Layout: Sep 27, 2023 - 3:32pm CTB - MONO - RED-GREEN,CTB TOSHIBA\_UNL\_COLOR (NORTH WING)

#	DATE	REVISIONS	DES:	JR	CITY of TAMPA WASTEWATER DEPARTMENT	Golfview Gravity Sewer System Rehabilitation By CIPP Lining	SHEET <b>01</b>
1			DRN:	GP			
2			CKD:				
3			DATE:				

JACINTO CARLOS FERRAS, P.E. #49454  
DESIGN DIVISION HEAD  
WASTEWATER DEPARTMENT

COVER SHEET

# GENERAL NOTES

1. THE SCOPE OF THIS PROJECT SHALL CONSIST OF REHABILITATION OF 8" DIA WASTEWATER PIPELINE BY 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 AND ARE BASED ON RECORD DRAWINGS.
3. SHEETS 6-12 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. REFER TO SPECIFIC MOT REQUIREMENTS IN NOTE 17 BELOW.
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". 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.
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 HARNESSSES, GAS MONITORS, LOWER EXPLOSIVE LIMIT (LEL) DETECTORS, BREATHING APPARATUS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE.
13. DURING THE MANHOLE'S INTERIOR CLEANING OPERATION, THE CONTRACTOR MUST PROVIDE A MEANS OF CAPTURING AND DISPOSING OF THE REMOVED DEBRIS. THIS METHOD SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
14. ALL EXPOSED STEEL REINFORCEMENT SHALL BE THOROUGHLY CLEANED OF ANY DETERIORATION/RUST AND COATED WITH THE PROPOSED COATING SYSTEM.
15. THE ONLY EXCAVATION NECESSARY FOR THIS PROJECT IS FOR THE REMOVAL AND REPLACEMENT OF THE MANHOLE FRAME AND COVERS. FOR THESE CASES, THE CONTRACTOR IS REQUIRED TO CALL SUNSHINE AT 1-800-432-4770 TO DETERMINE UTILITY LOCATIONS PRIOR TO EXCAVATION.
16. THIS PROJECT INCLUDES REHABILITATION OF MANHOLES BY APPLICATION OF A STRUCTURAL COATING SYSTEM AND ALL APPURTENANCES ASSOCIATED WITH THE PROJECT.

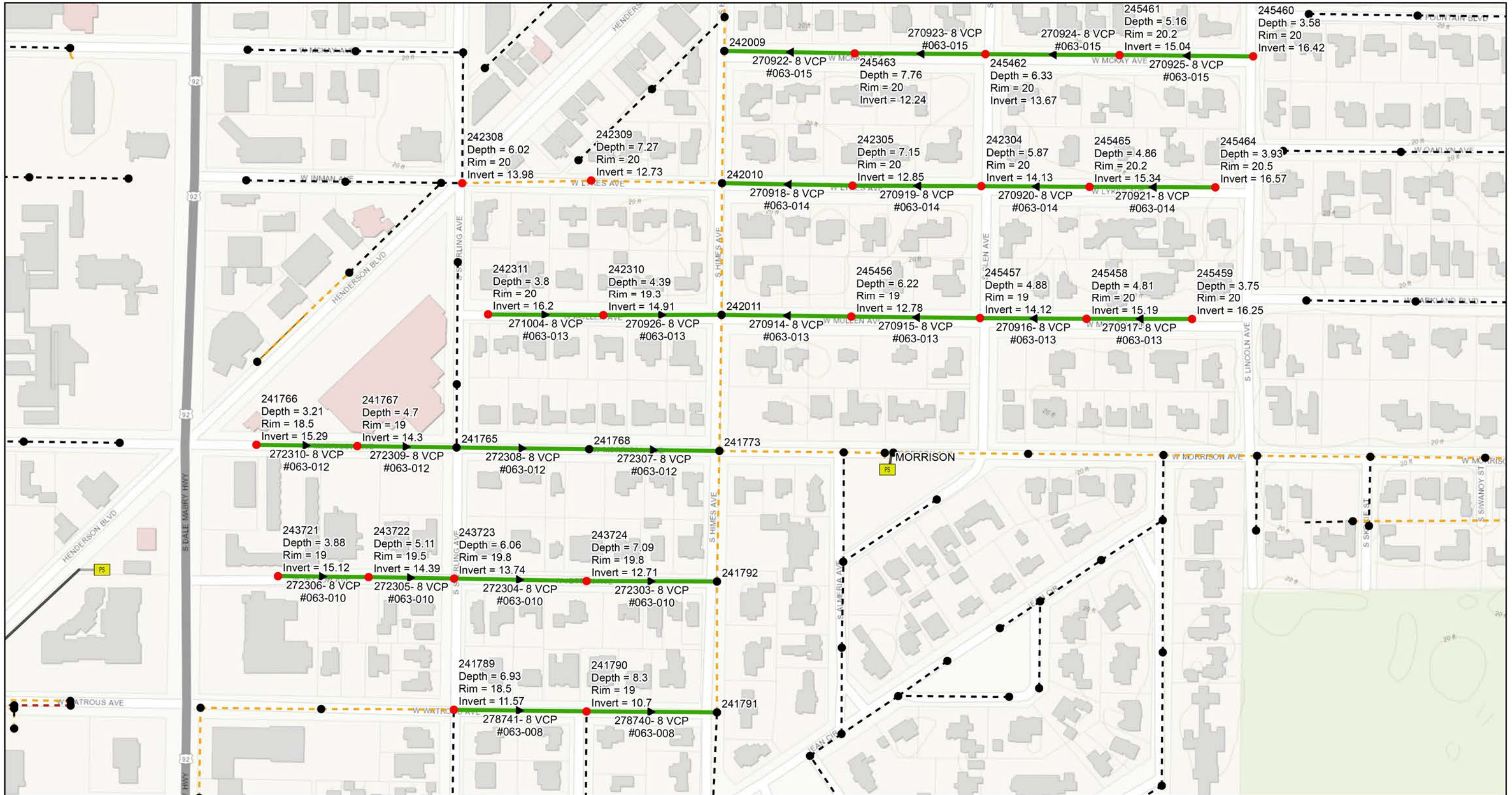
INDEX	
SHEET NUMBER	SHEET NAME
01	COVER SHEET
02	NOTE AND INDEX
03	AREA MAPS
04-05	MANHOLE DETAILS
06-12	WASTEWATER RECORD DRAWINGS FOR REFERENCE **

\*\* 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.

PROPOSED MANHOLE COATING SYSTEM THICKNESS	
Location	Coating System
Manhole Barrel	250 MILS (MIN)
Manhole Benches	250 MILS (MIN)

User: sst5 Drawing Name: K:\Wastewater Projects\Golfview Gravity Sewer Rehabilitation by CIPP.dwg Layout- Sep 28, 2023 - 2:04pm	#	DATE	REVISIONS	DES: JR	CITY of TAMPA WASTEWATER DEPARTMENT	Golfview Gravity Sewer System Rehabilitation By CIPP Lining	SHEET <b>02</b>
	1			DRN: GP			
	2			CKD:		NOTES & INDEX	
	3			DATE:			
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT							

User: ssh5 Drawing Name: K:\Wastewater Projects\Golfview Gravity Sewer Rehabilitation by CIPP\Drafting\DWG\Golfview Gravity Sewer System Rehabilitation by CIPP.dwg  
 Layout: Sep 27, 2023 - 3:32pm CTB - MONO - RED-GREEN,CTB TOSHIBA\_UNL\_COLOR (NORTH WING)



0 0.04 0.08 0.16 Miles

- Legend**
- Ex Manhole (no rehabilitation required)
  - Ex Wastewater (no rehabilitation required)
  - Ex CIPP Lined or PVC
  - Out of Service
  - Proposed Manhole Rehabilitation
  - Proposed Lining Area



JACINTO CARLOS FERRAS, P.E. #49454  
 DESIGN DIVISION HEAD  
 WASTEWATER DEPARTMENT

#	DATE	REVISIONS
1		
2		
3		

DES: JR  
 DRN: GP  
 CKD:  
 DATE:

CITY of TAMPA  
 WASTEWATER DEPARTMENT

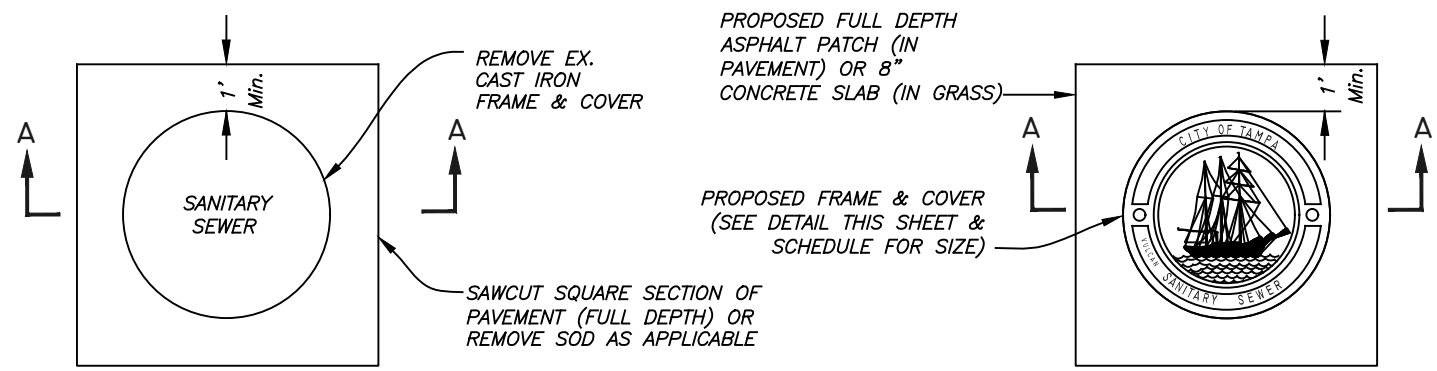
Golfview Gravity Sewer System Rehabilitation  
 By CIPP Lining  
 AREA MAP 1

SHEET  
 03

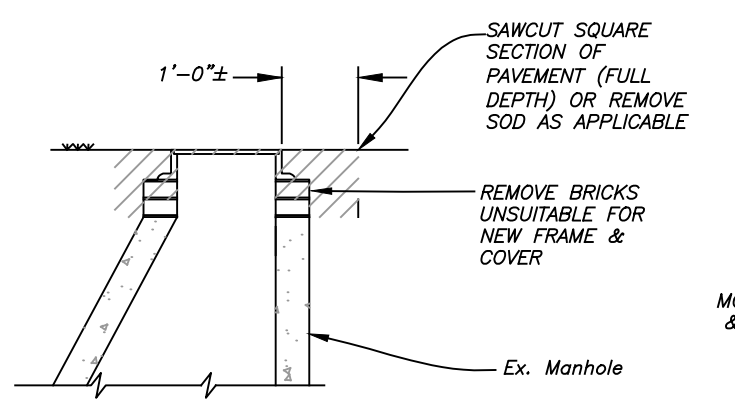


ASPHALT RESTORATION NOTE

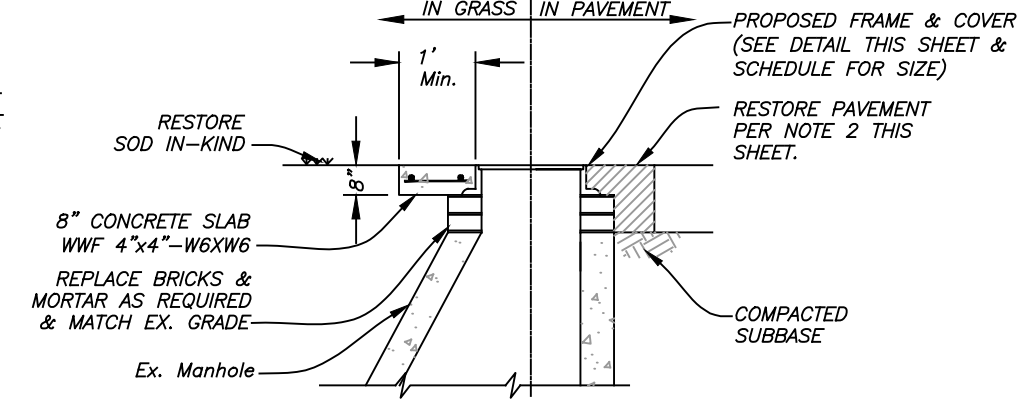
PAVEMENT RESTORATION SHALL CONSIST OF 12" PERMANENT BASE (CRUSHED CONCRETE) AND 2" PERMANENT ASPHALT SUPERPAVE PAVEMENT, UNLESS OTHERWISE NOTED. IF LOCATED IN D.O.T. OR HILLSBOROUGH COUNTY ROW, AN ADDITIONAL 1 1/2" SUPER PAVE ASPHALT IS REQUIRED.



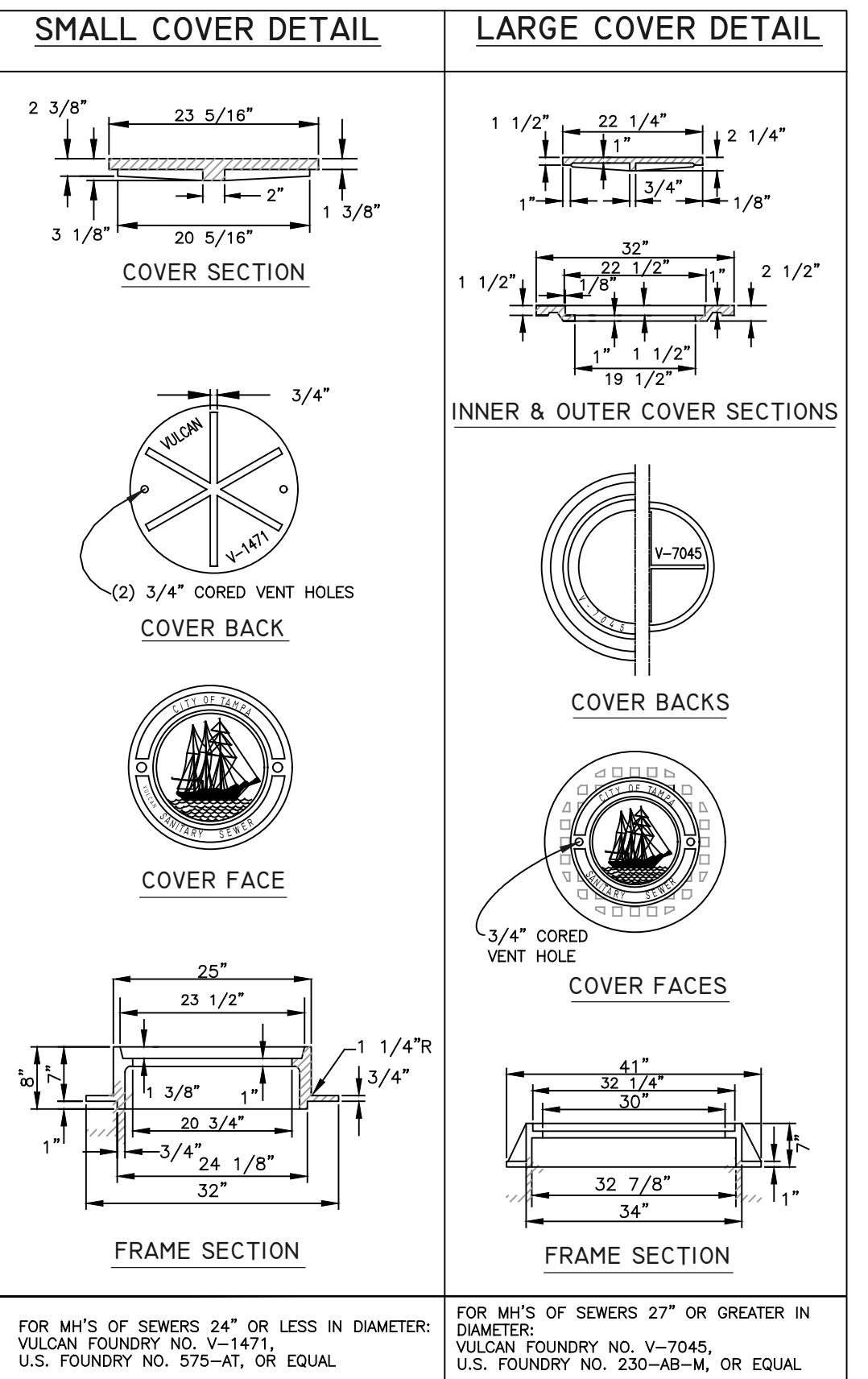
PLAN



SECTION A-A  
REMOVAL DETAIL



SECTION B-B  
REPLACEMENT  
DETAIL



HEAVY DUTY CAST IRON MANHOLE FRAME &  
COVER DETAILS

User: sst5 Drawing Name: K:\Wastewater Projects\Golfview Gravity Sewer Rehabilitation by CIPP\Drafting\DWG\Golf Gravity Sewer System Rehabilitation by CIPP.dwg Layout: Sep 21, 2023 - 3:32pm

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	#	DATE	REVISIONS
	1		
	2		
	3		

DES: JR  
DRN: GP  
CKD:  
DATE:

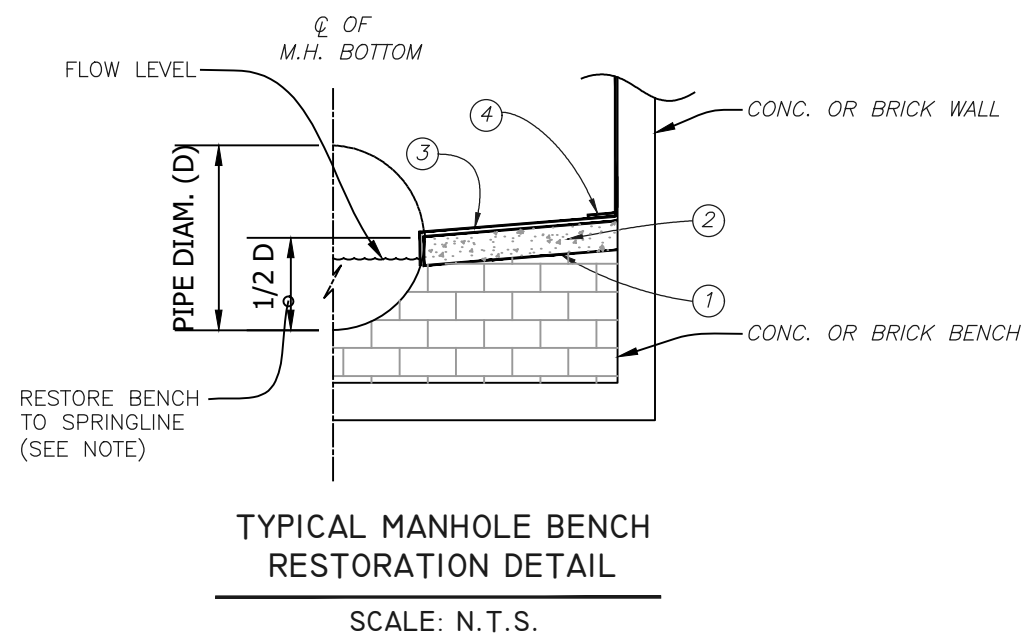
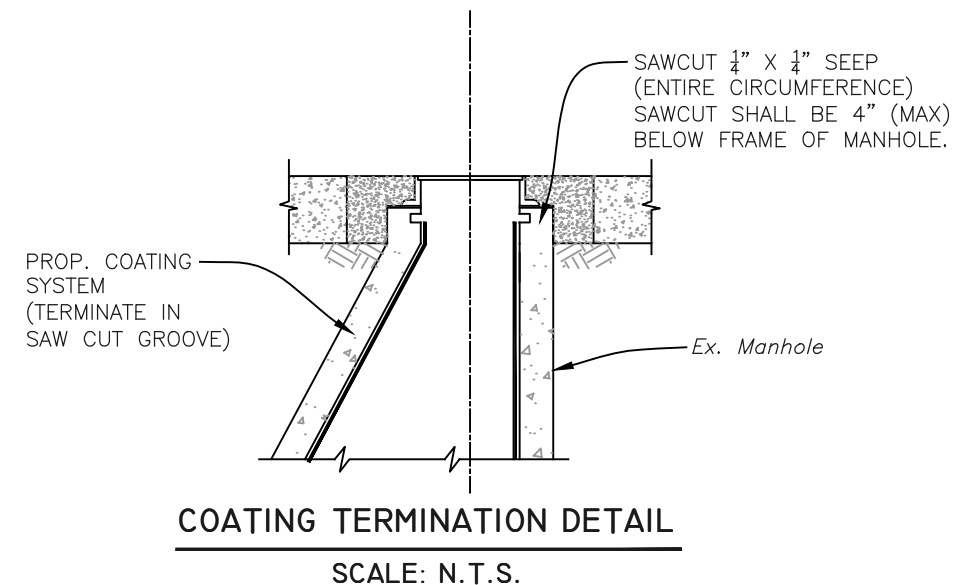
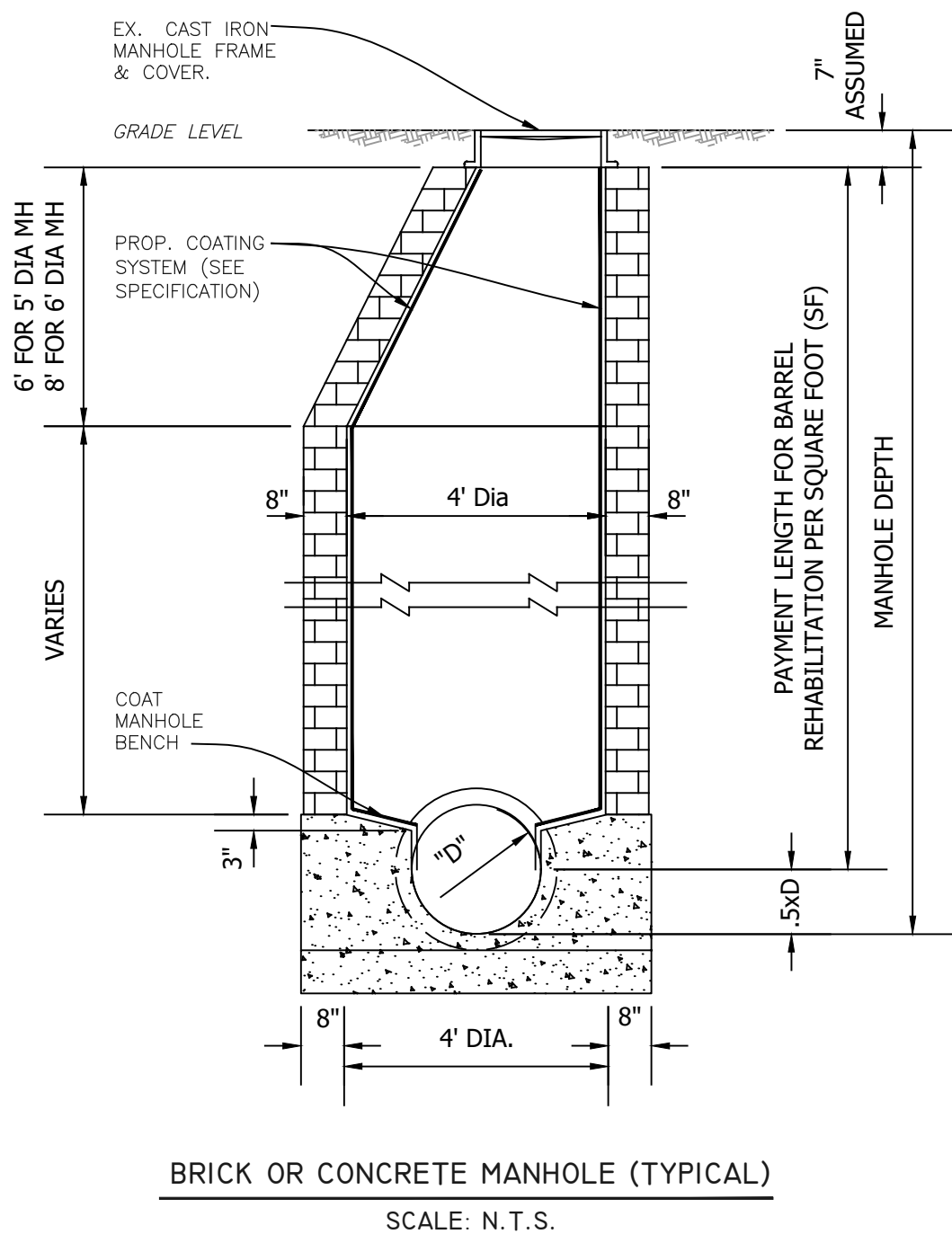
**CITY of TAMPA**  
WASTEWATER DEPARTMENT

Golfview Gravity Sewer System Rehabilitation  
By CIPP Lining  
**MANHOLE DETAIL**

SHEET  
**04**

**NOTES**

1. REMOVE ALL DEBRIS AND LOOSE BRICKS FROM THE TOP OF THE BENCH.
2. INSTALL A MINIMUM 1" THICK CLASS "D" CONCRETE OVER EXISTING BENCH. ALLOW CONCRETE TO CURE (MIN. 24 HRS. UNLESS OTHERWISE APPROVED BY THE ENGINEER).
3. OVERLAY BENCHES WITH PROPOSED COATING SYSTEM.
4. PROVIDE 6" COATING THICKNESS TRANSITION. PAYMENT FOR THIS ITEM IS INCLUDED IN THE BENCH RESTORATION.



User: ssh5 Drawing Name: K:\Wastewater Projects\Golfview Gravity Sewer Rehabilitation by CIPP\Drafting\DWG\Golf Gravity Sewer System Rehabilitation by CIPP.dwg Layout- Sep 21, 2023 - 3:32pm

JACINTO CARLOS FERRAS, P.E. #49454  
DESIGN DIVISION HEAD  
WASTEWATER DEPARTMENT

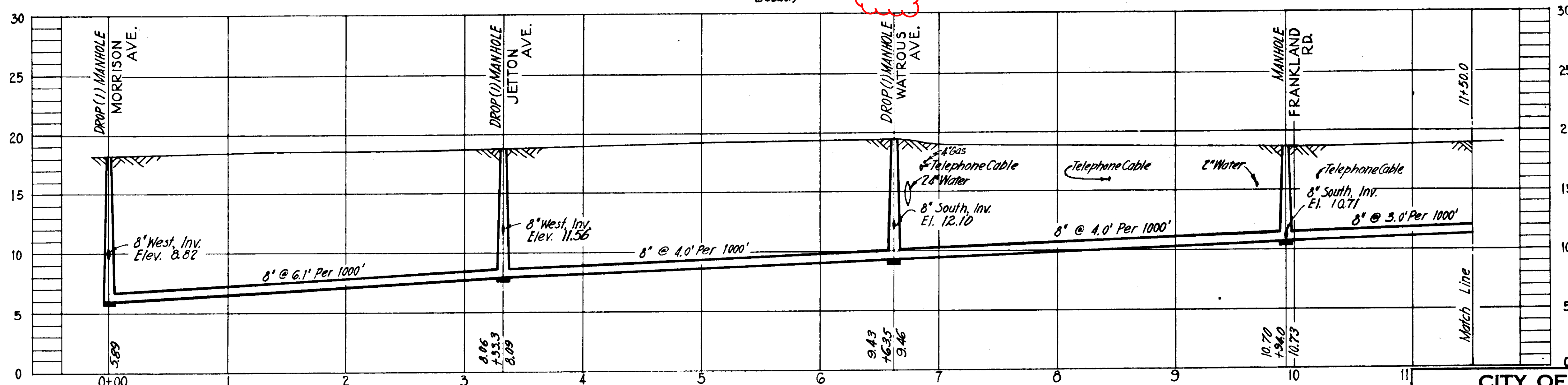
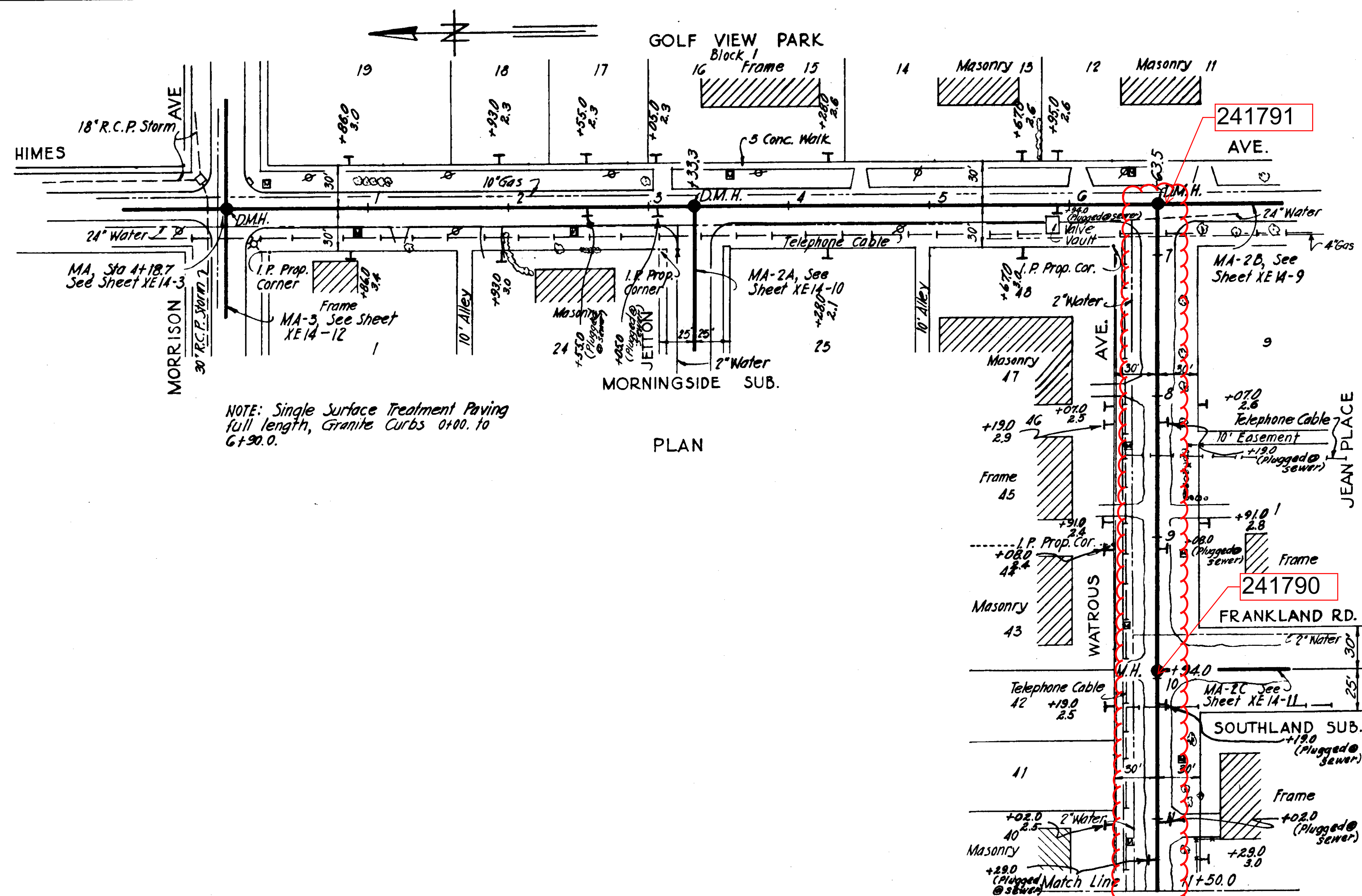
#	DATE	REVISIONS
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DES: JR  
DRN: GP  
CKD:  
DATE:

CITY of TAMPA  
WASTEWATER DEPARTMENT

Golfview Gravity Sewer System Rehabilitation  
By CIPP Lining  
MANHOLE DETAILS

SHEET  
05



CITY OF TAMPA, FLORIDA  
SEWER IMPROVEMENTS  
DIVISION XE14

MA-2  
STA. 0+00 TO STA. 11+50

DES. E.C.A.  
DR. E.C.A.  
CKD. R.F.  
DATE:  
NOV. 1954

SCALE  
50 0 50 100  
1" = 50'

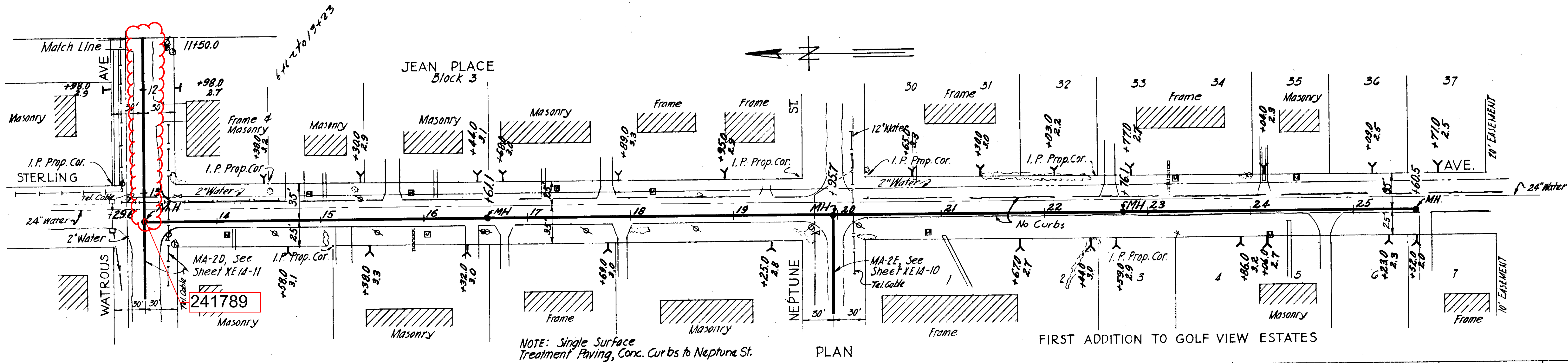
SHEET  
XE14-8  
OF 29

GREELEY AND HANSEN  
ENGINEERS  
CHICAGO, ILL.

**AS-BUILT PLAN**  
Revised to show actual conditions according  
to construction record as of  
G.M.D. (5-21-56)

63-8

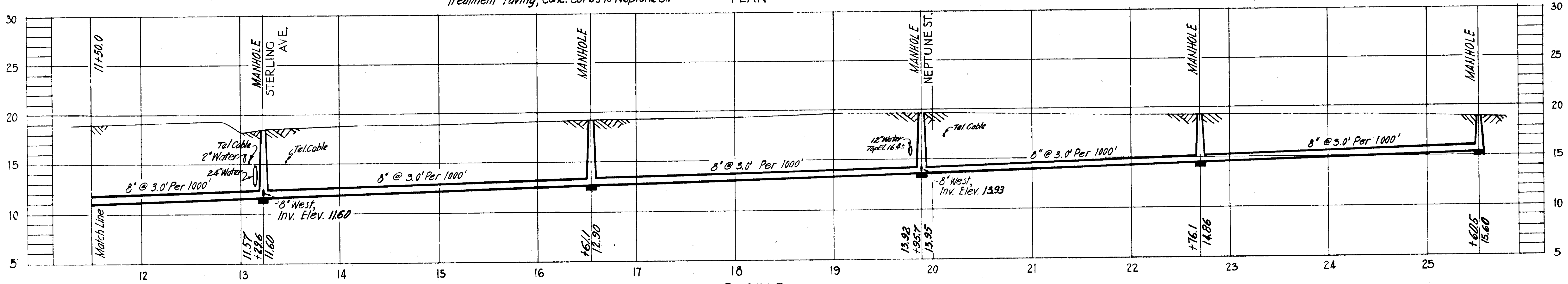




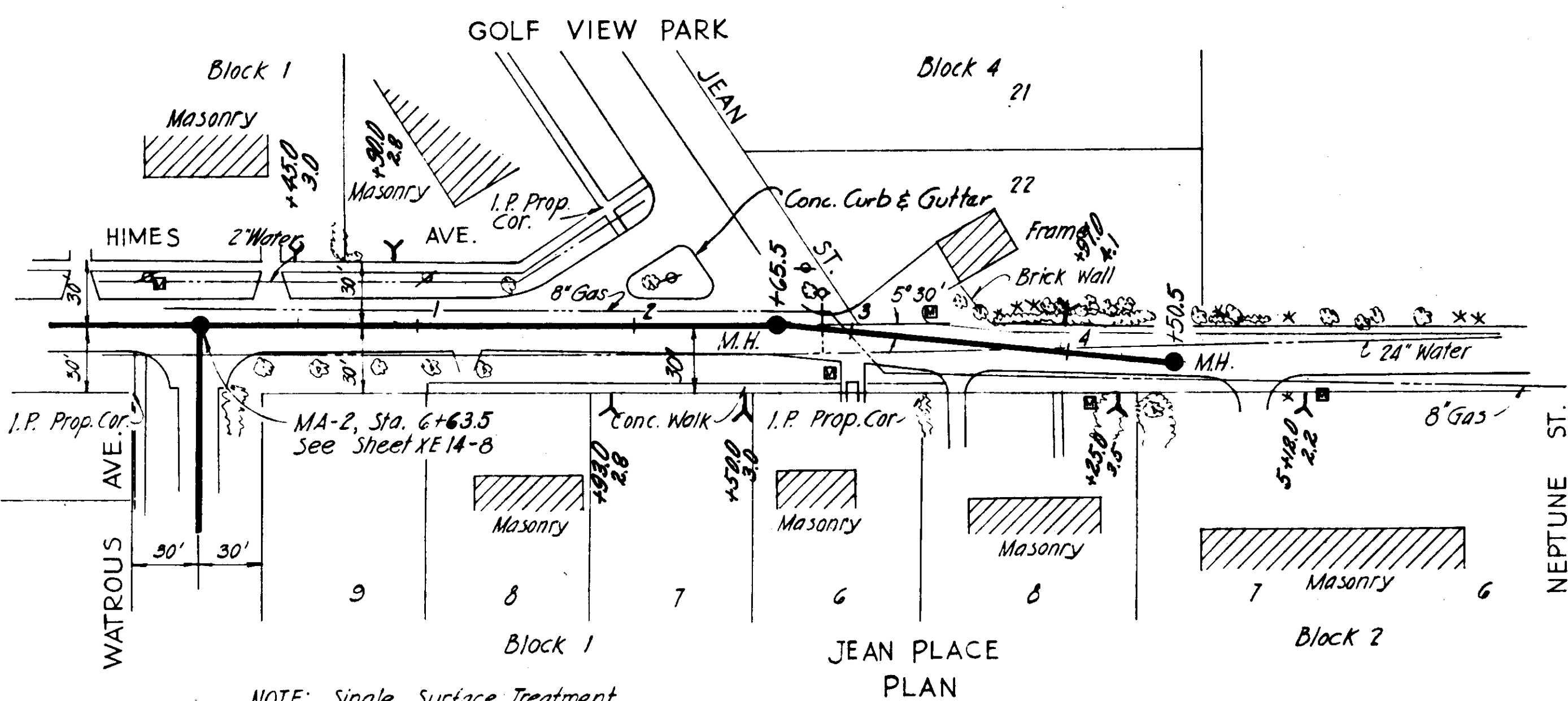
NOTE: Single Surface Treatment Paving, Conc. Curbs to Neptune St.

PLAN

FIRST ADDITION TO GOLF VIEW ESTATES



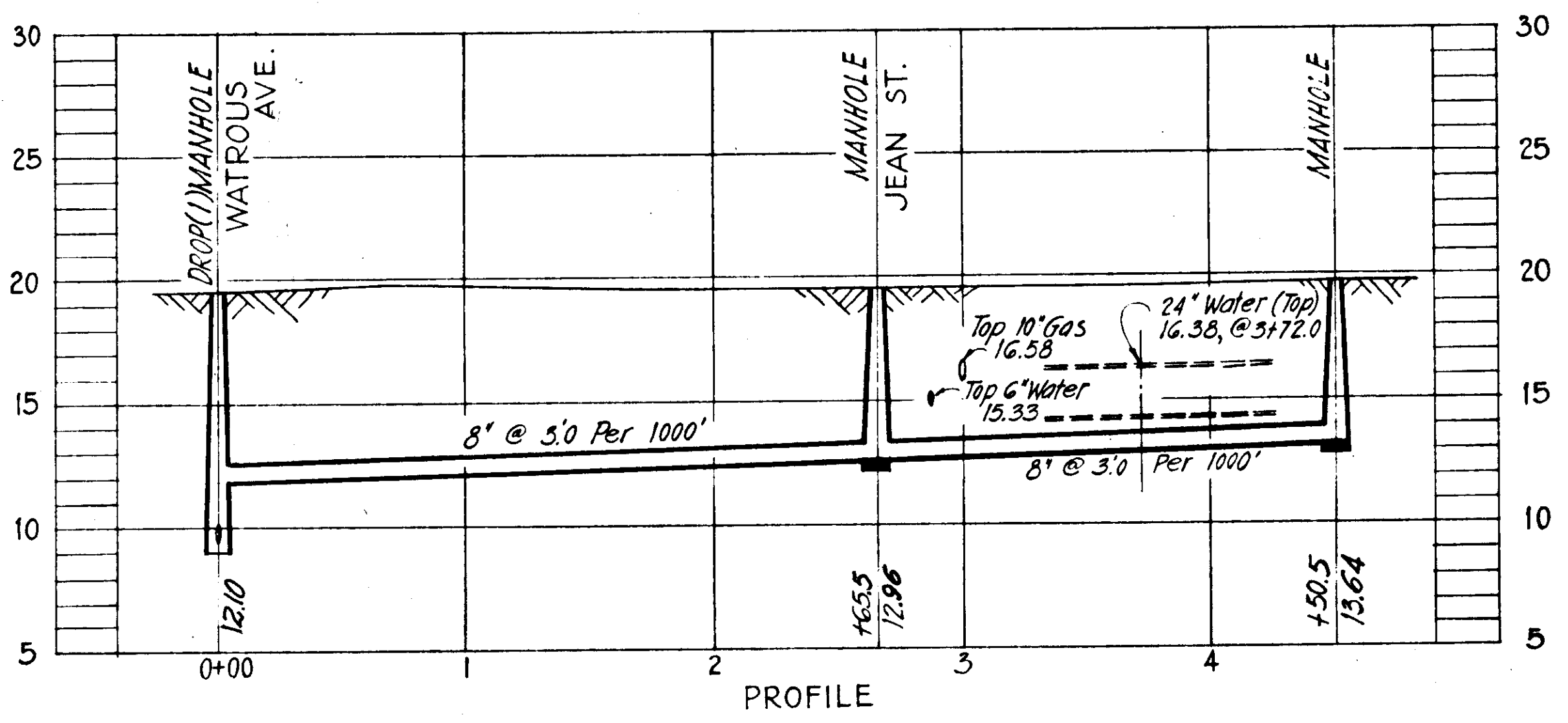
PROFILE MA-2



NOTE: Single Surface Treatment Paving, Granite Curbs.

JEAN PLACE PLAN

MA-2B



PROFILE

**AS-BUILT PLAN**

Revised to show actual conditions according to construction record as of G. M. D. (5-21-56)

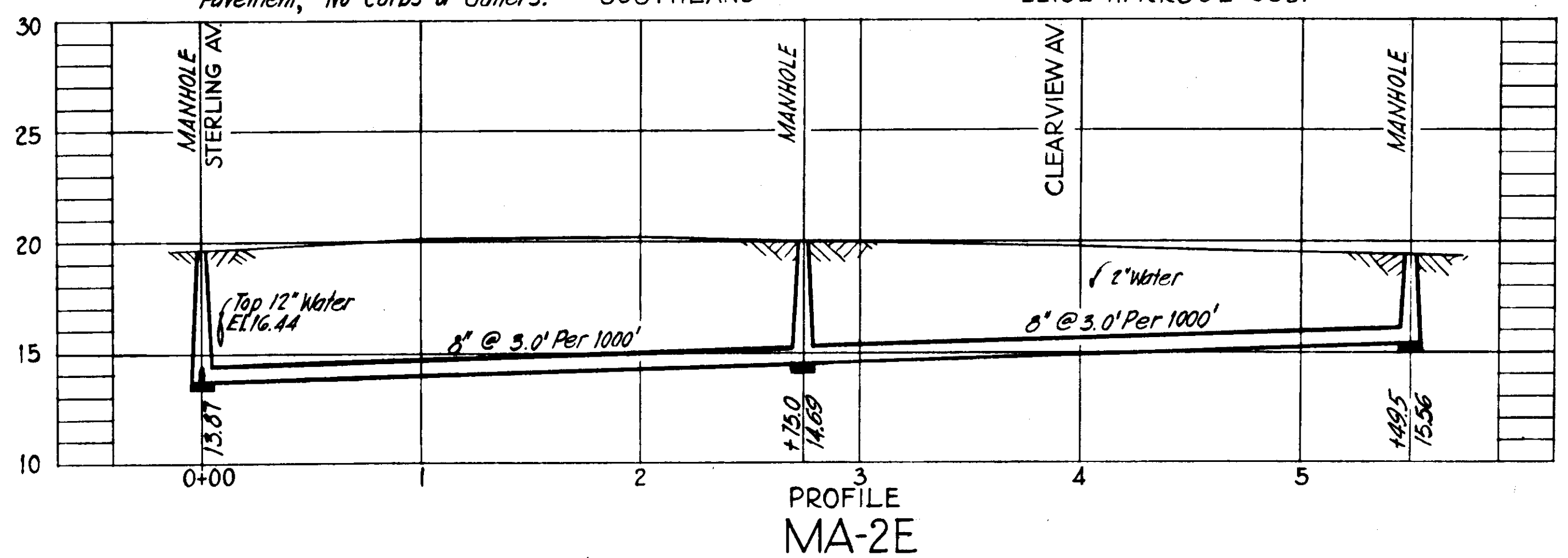
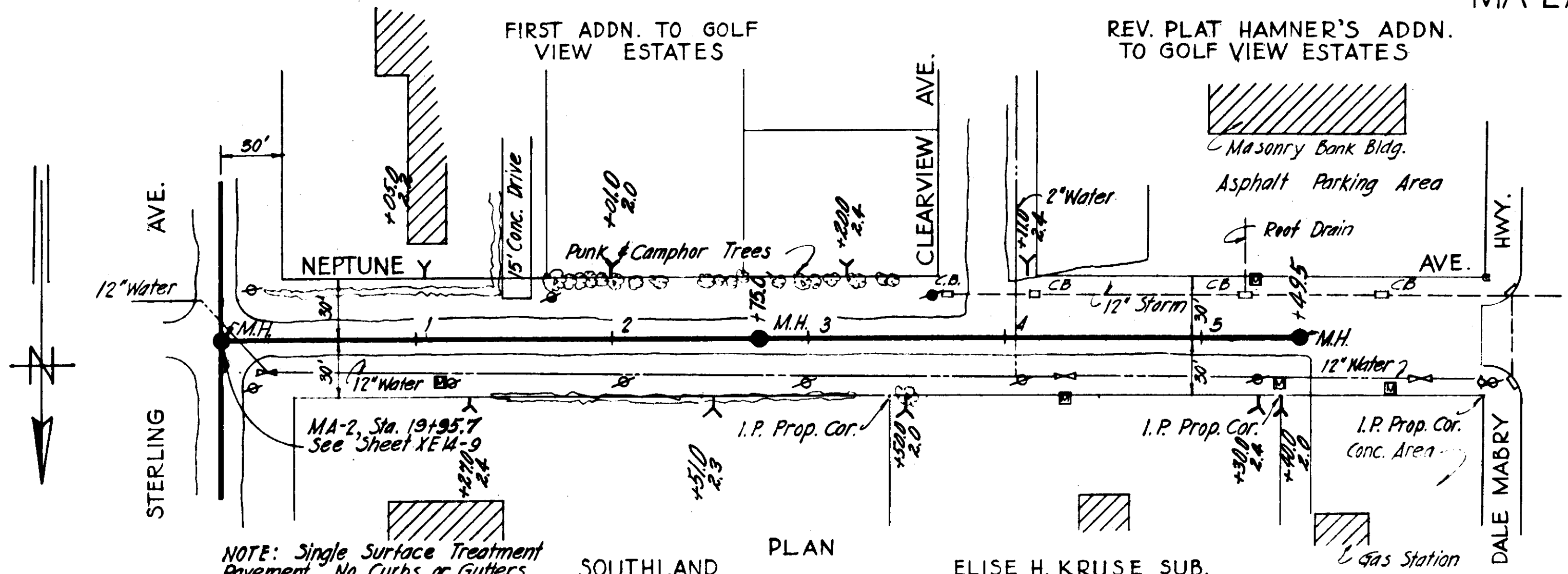
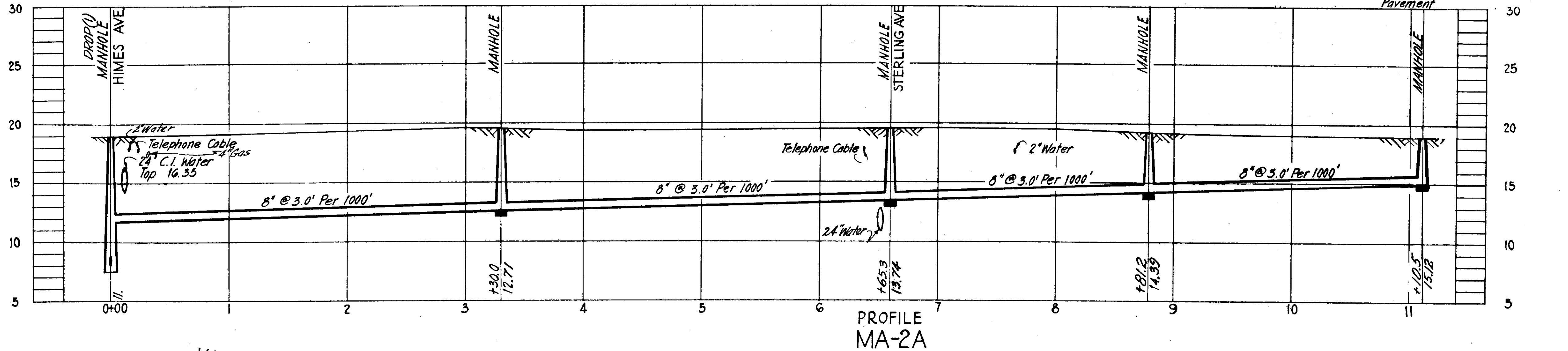
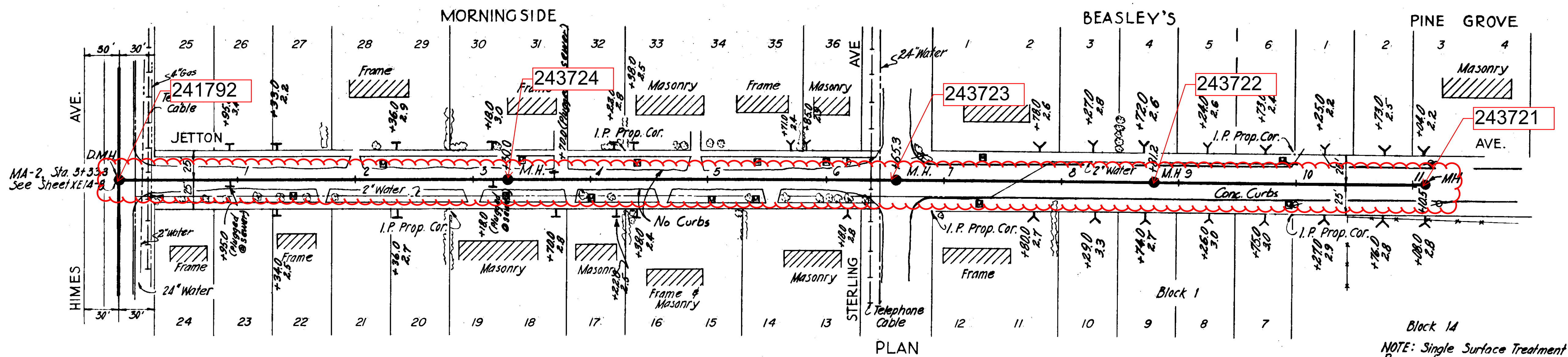
CITY OF TAMPA, FLORIDA  
SEWER IMPROVEMENTS  
DIVISION XI4

MA-2  
STA. 11+50 TO STA. 25+53.2  
& MA-2B

DES. E.C.A. DR. E.C.A. CKD. R.E.F. DATE: NOV. 1954	SCALE 0 50 100 1" = 50'	SHEET
		XE14-9
		OF 29

GREELEY AND HANSEN  
ENGINEERS  
CHICAGO, ILL.





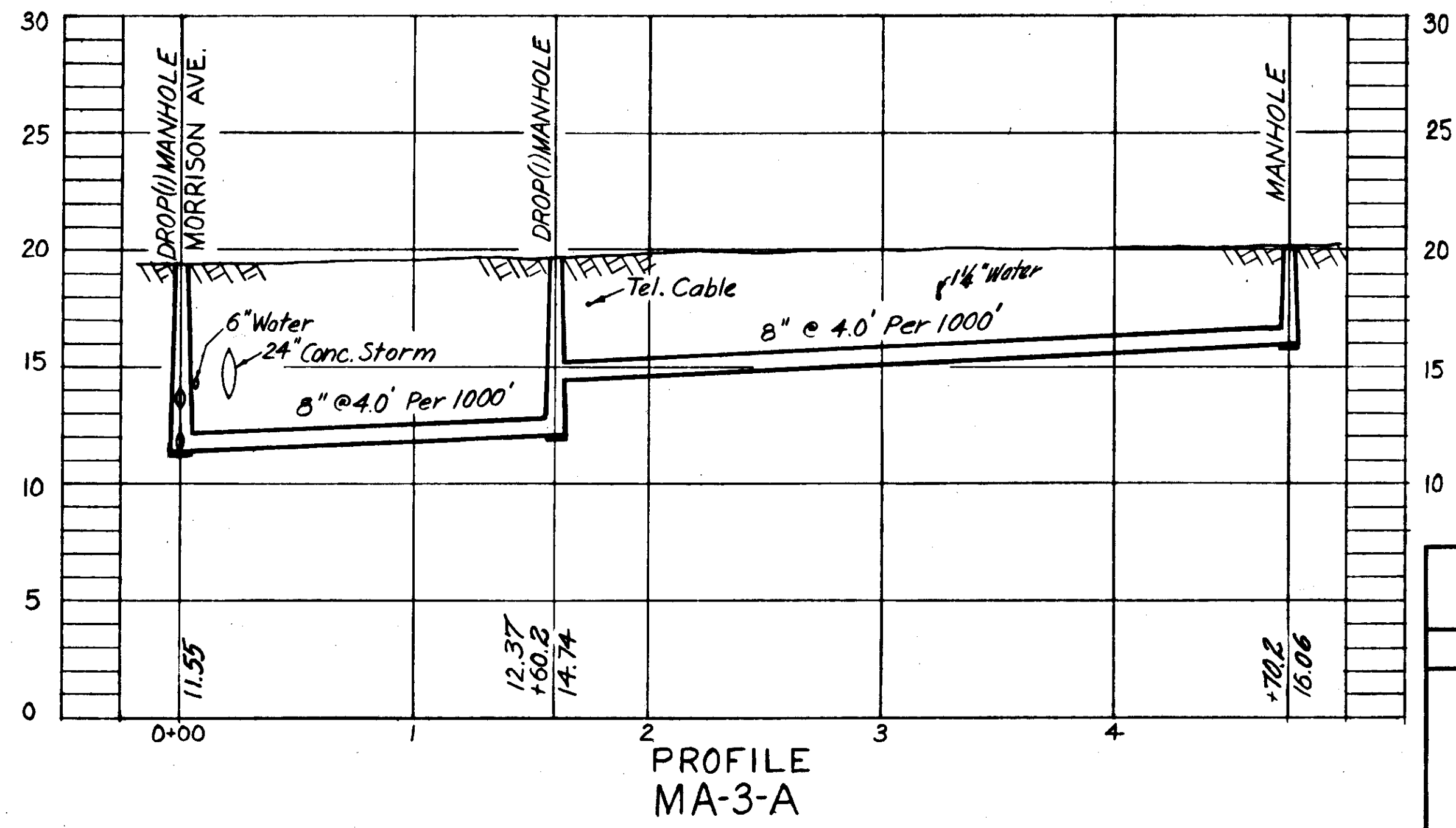
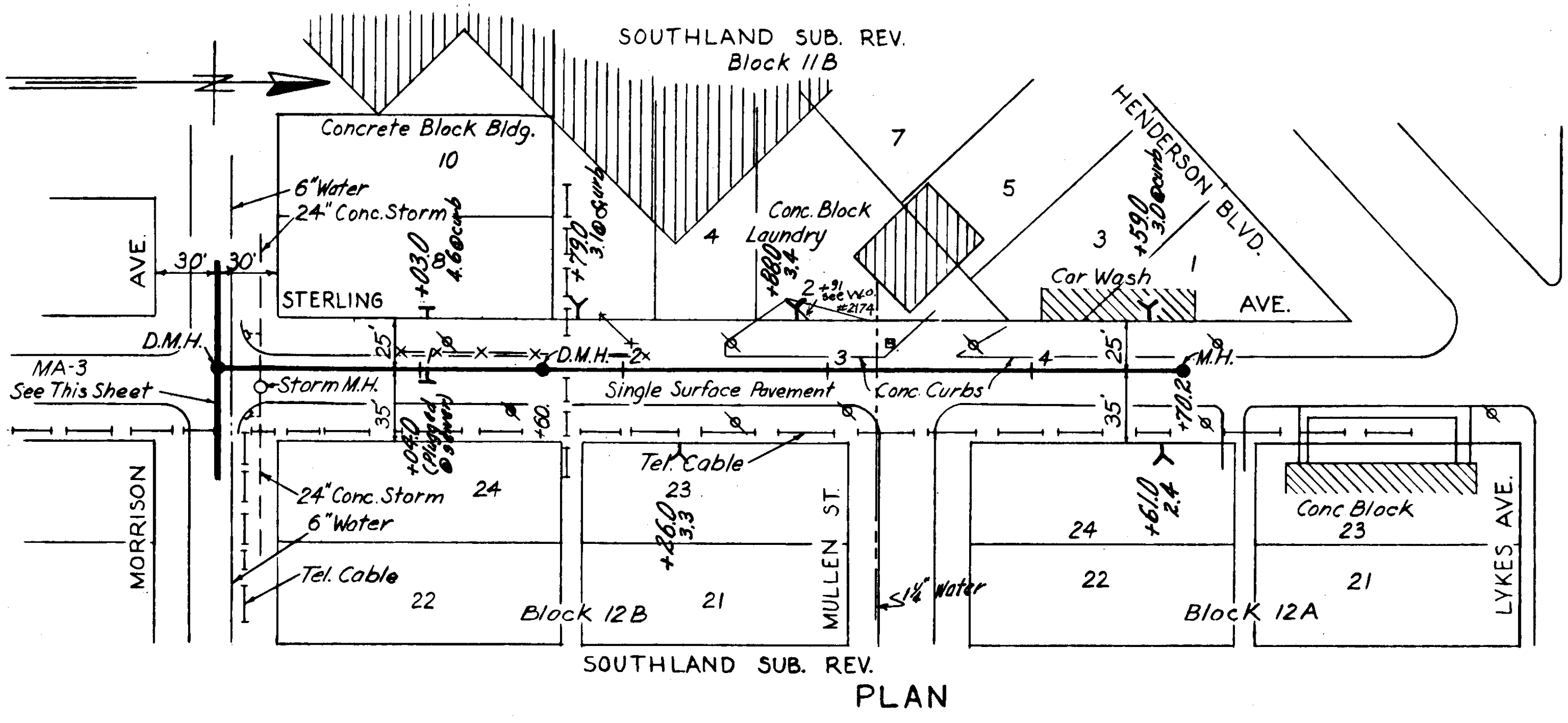
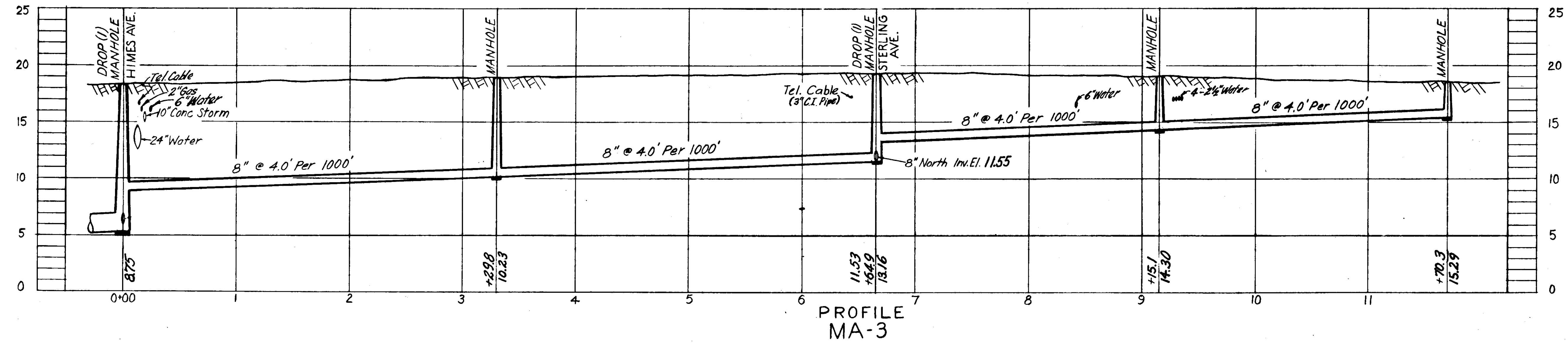
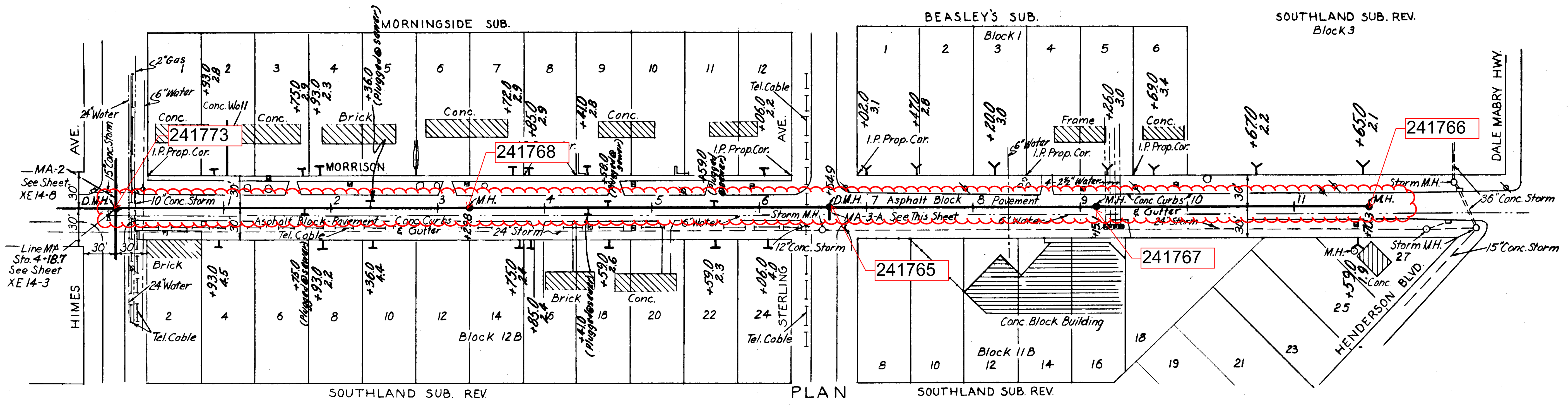
<b>CITY OF TAMPA, FLORIDA</b>		
SEWER IMPROVEMENTS		
DIVISION XE14		
MA-2A & MA-2E		
DES. E.C.A. DR. E.C.A. CKD. R.E.F. DATE: NOV. 1954	SCALE 0 50 100 1" = 50'	SHEET <b>XE14-10</b> OF 29

**AS-BUILT PLAN**  
 Revised to show actual conditions according  
 to construction record as of  
 G.M.D. (5-21-56)

GREELEY AND HANSEN  
 ENGINEERS  
 CHICAGO, ILL.

63-10





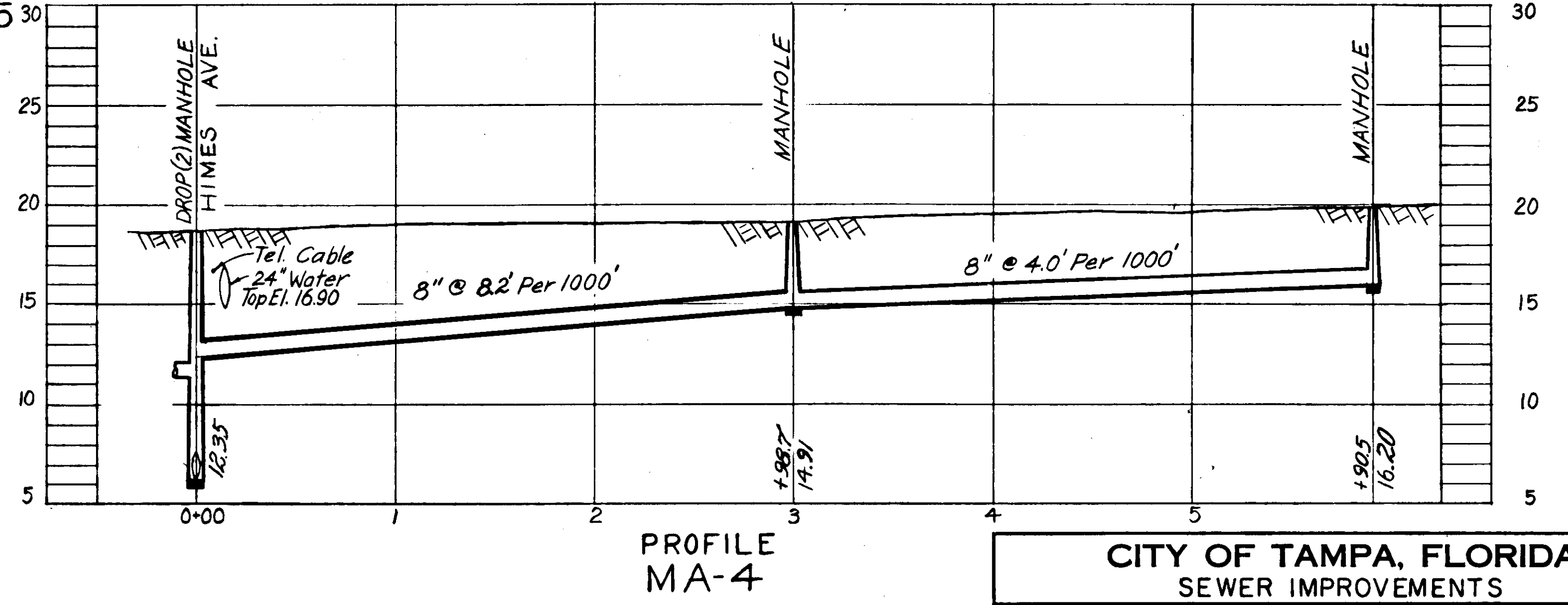
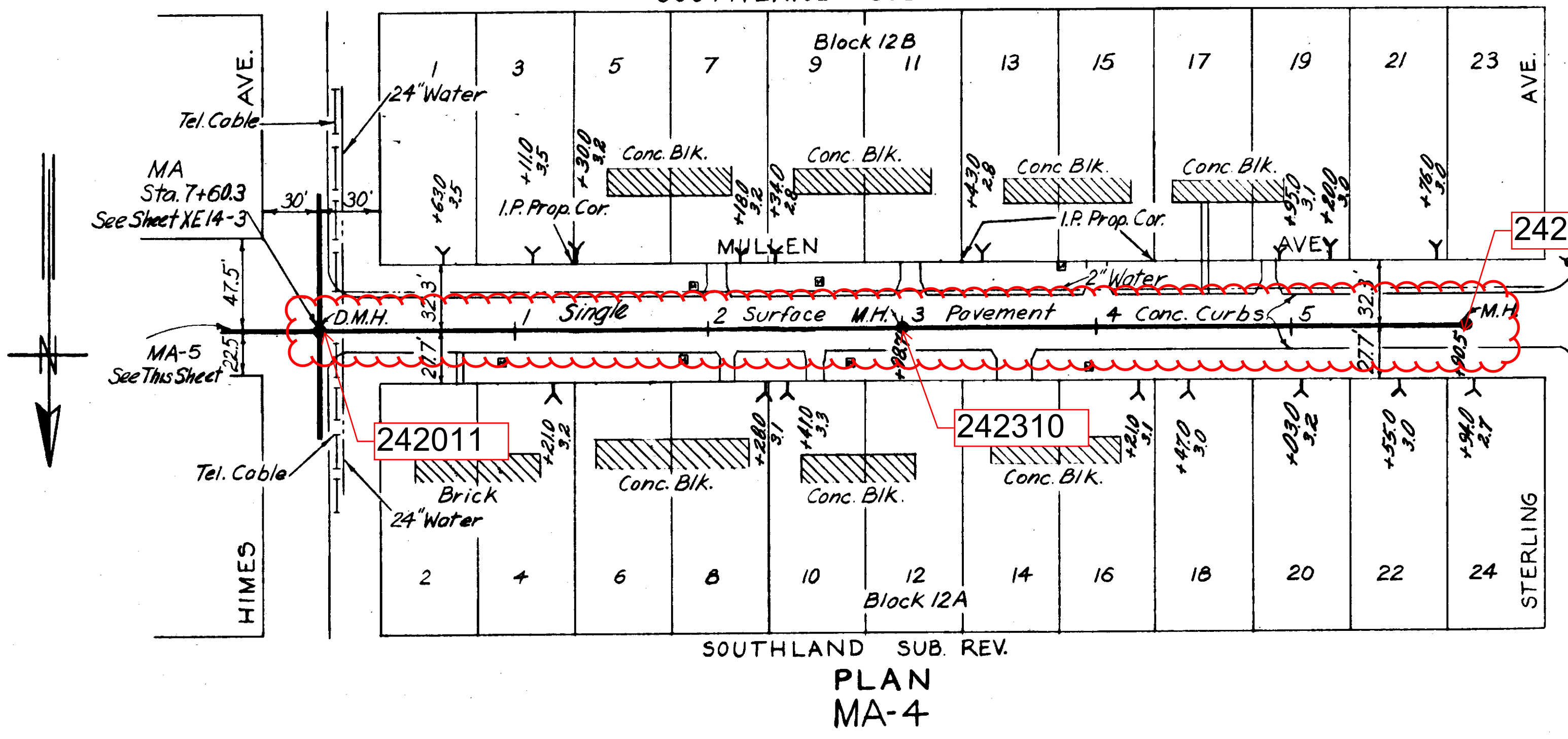
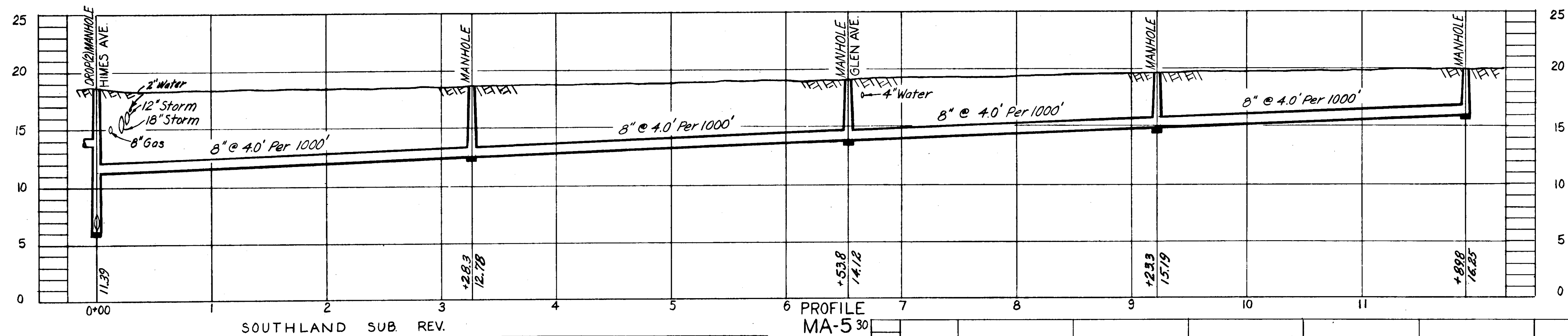
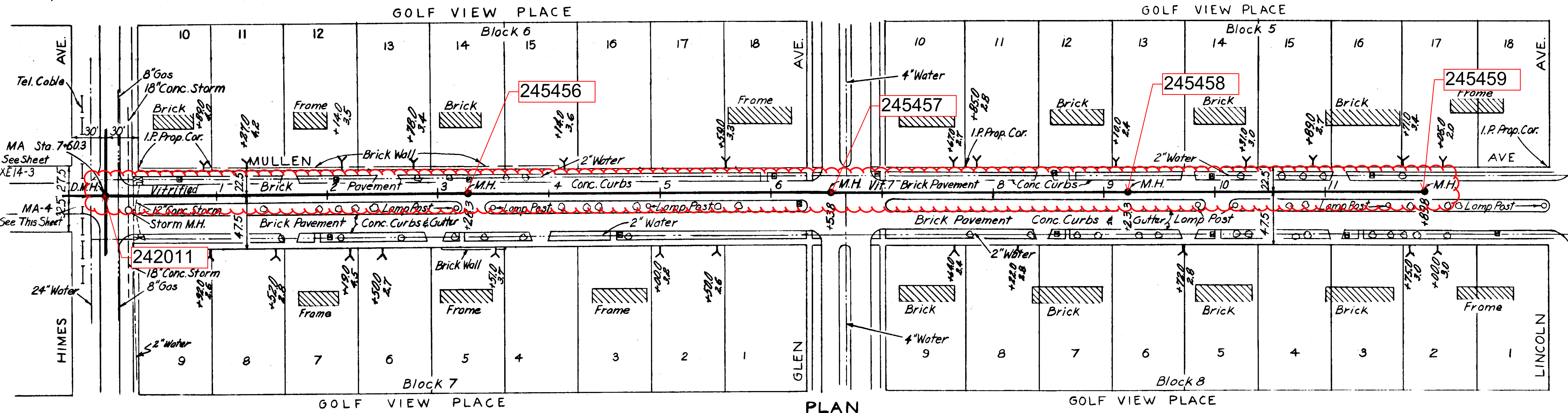
GREELEY AND HANSEN  
ENGINEERS  
CHICAGO, ILL.

**AS-BUILT PLAN**  
Revised to show actual conditions according  
to construction record as of  
6.M.D. (5-21-56)

CITY OF TAMPA, FLORIDA		SCALE 50 0 50 100 1" = 50'	SHEET <b>XE14-12</b> OF 29
SEWER IMPROVEMENTS			
DIVISION XE 14		MA-3 & MA-3-A	
DES. F.E. DR. M.R. CKD. F.F.E. DATE: NOV. 1954			

63-12





**CITY OF TAMPA, FLORIDA**  
SEWER IMPROVEMENTS  
DIVISION XE 14

MA-4 & MA-5

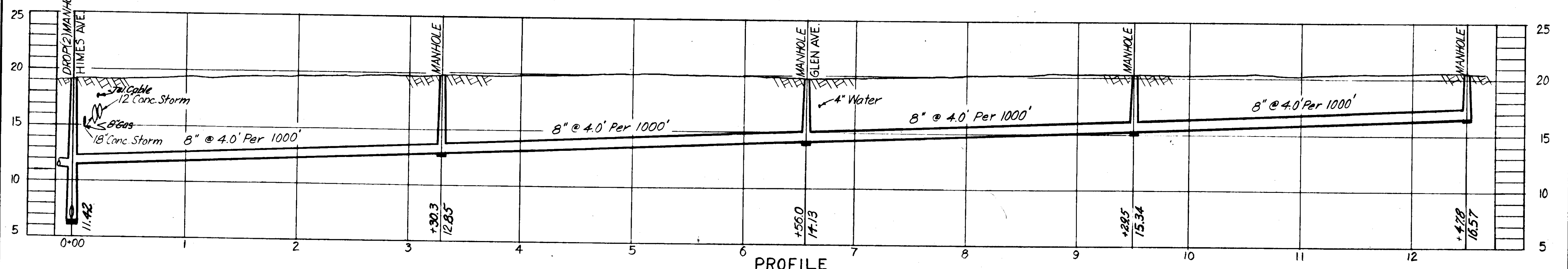
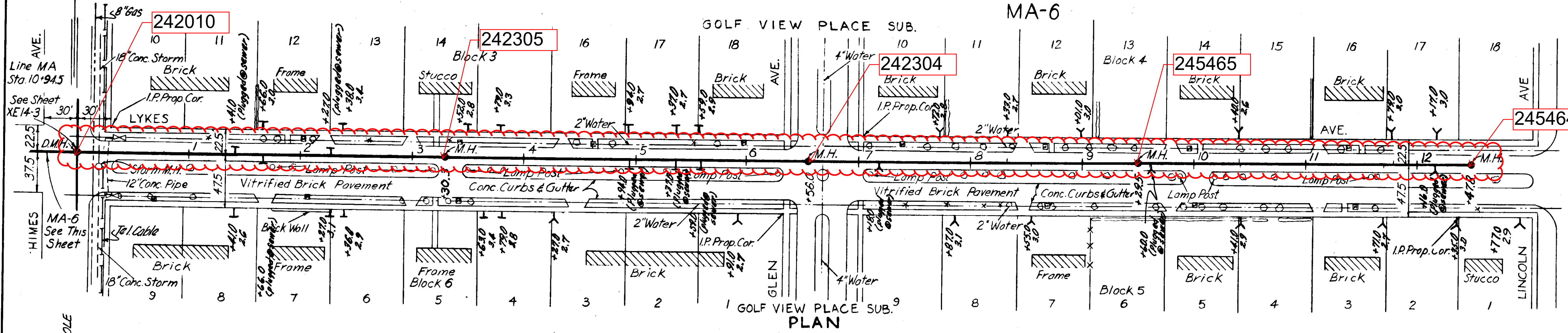
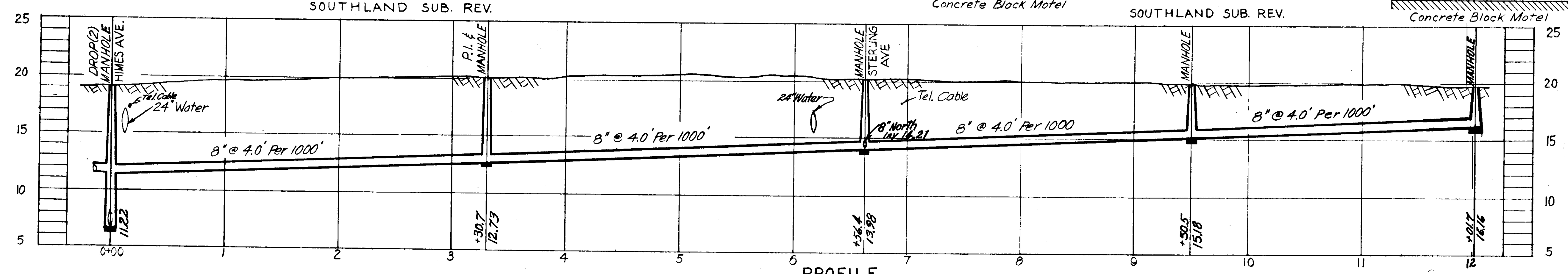
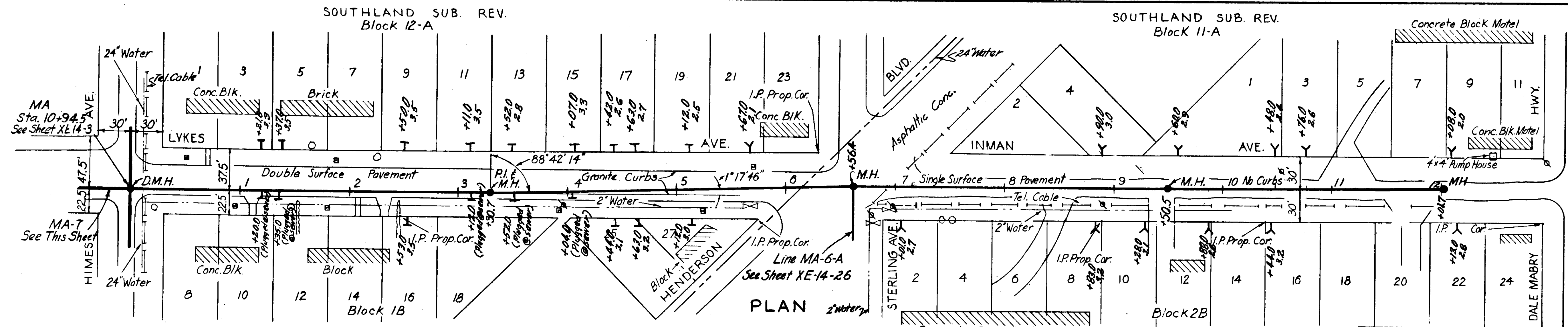
DES. F.E. DR. M.R. CKD. F.F.E. DATE: NOV. 1954	SCALE 50 0 50 100 1" = 50'	SHEET <b>XE14-13</b> OF 29
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GREELEY AND HANSEN  
ENGINEERS  
CHICAGO, ILL.

**AS-BUILT PLAN**  
Revised to show actual conditions according  
to construction record as of  
G.M.D. (5-21-56)

63-13





**AS-BUILT PLAN**

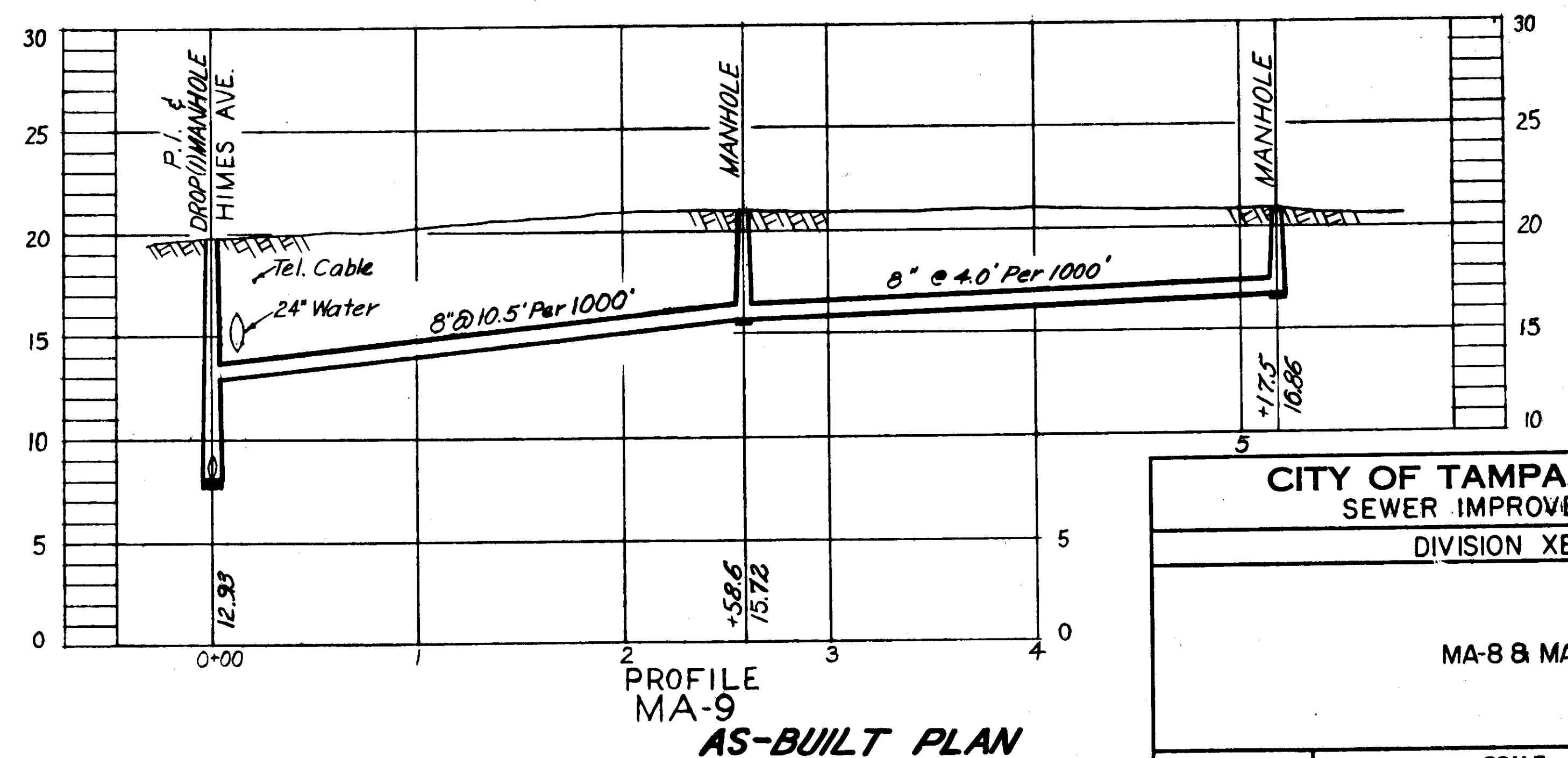
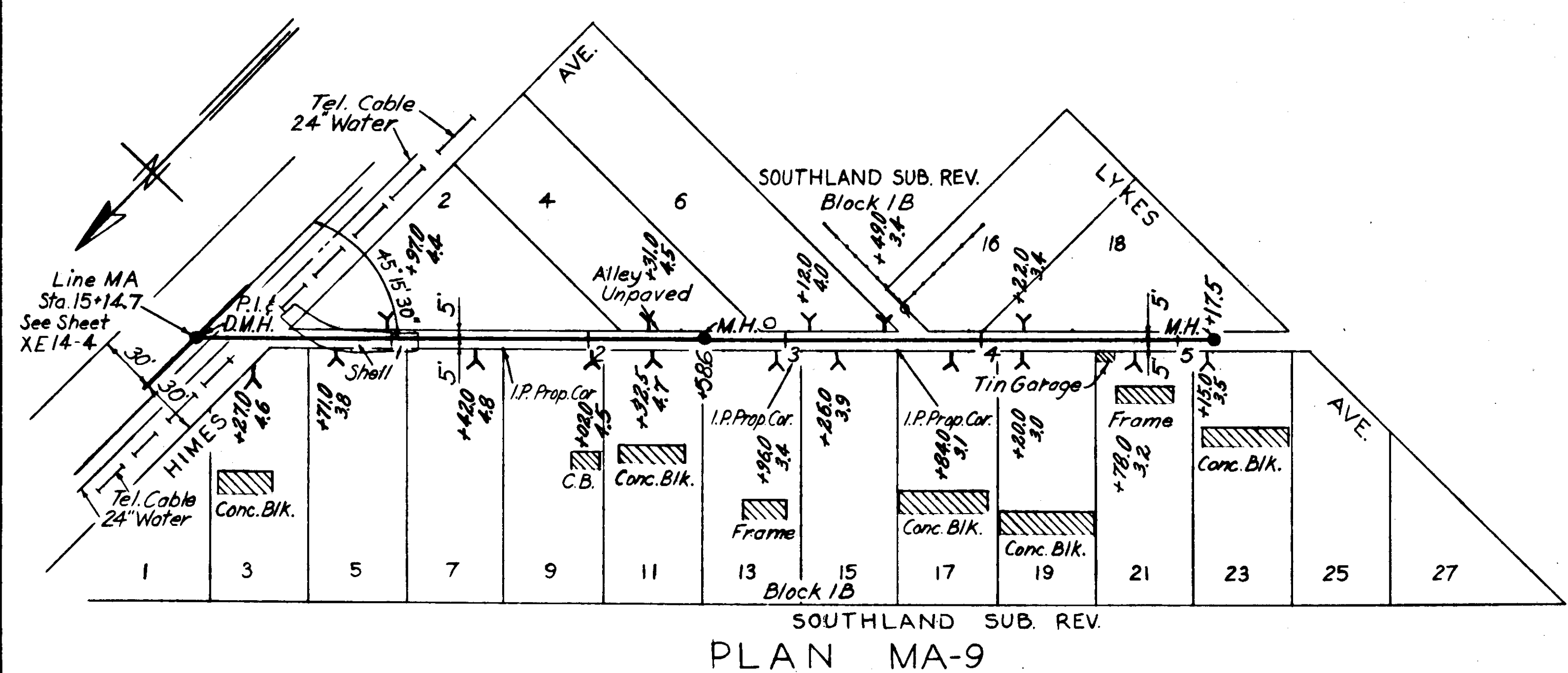
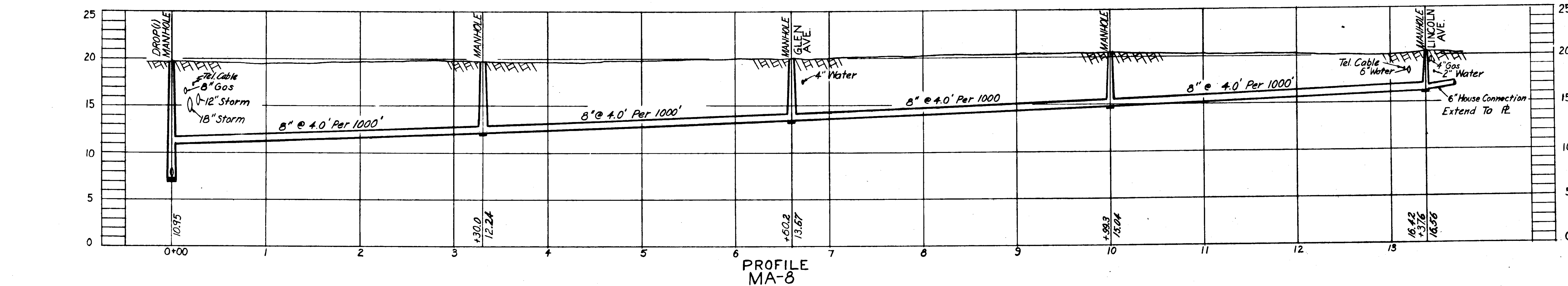
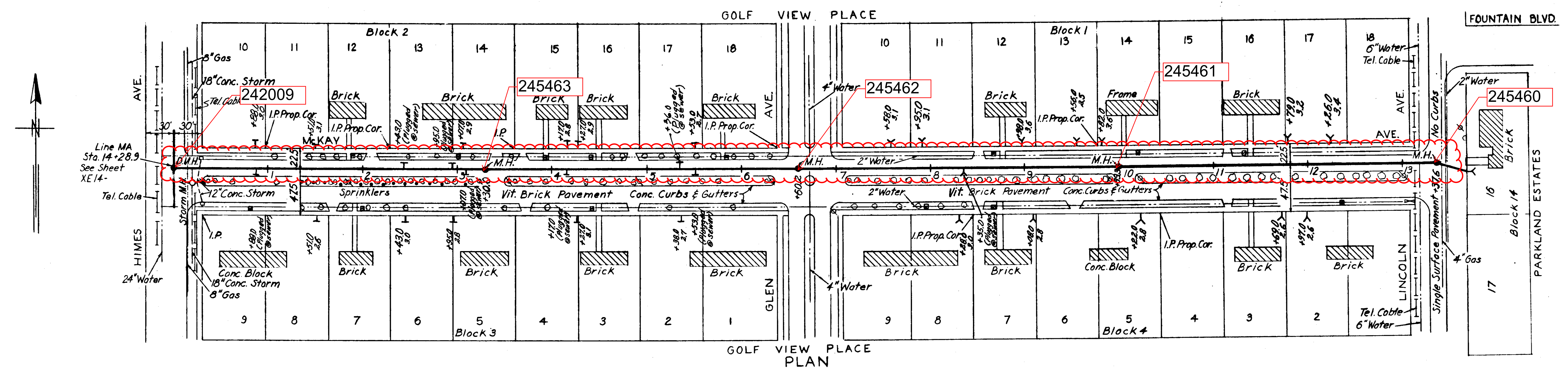
Revised to show actual conditions according to construction record as of 6.M.D. (5-22-56)

<b>CITY OF TAMPA, FLORIDA</b>		
SEWER IMPROVEMENTS		
DIVISION XE14		
MA-6 & MA-7		
DES. F.E. DR. M.R. CKD. F.F.E. DATE: NOV. 1954	SCALE 0 50 100 1"=30'	SHEET <b>XE14-14</b> OF 29

GREELEY AND HANSEN  
ENGINEERS  
CHICAGO, ILL.

63-14





GREELEY AND HANSEN  
ENGINEERS  
CHICAGO, ILL.

Revised to show actual conditions according  
to construction record as of  
G.M.D. (5-22-56)

CITY OF TAMPA, FLORIDA		
SEWER IMPROVEMENTS		
DIVISION XE14		
MA-8 & MA-9		
DES. F.E. DR. M.R. CKD. F.F.E. DATE: NOV. 1954	SCALE 50 0 50 100 1" = 50'	SHEET XE14-15 OF 29

63-15