

APPENDIX 2.8 –

MANHOLE STORM DRAIN AS-BUILTS

FOR:

7TH Street and I-40

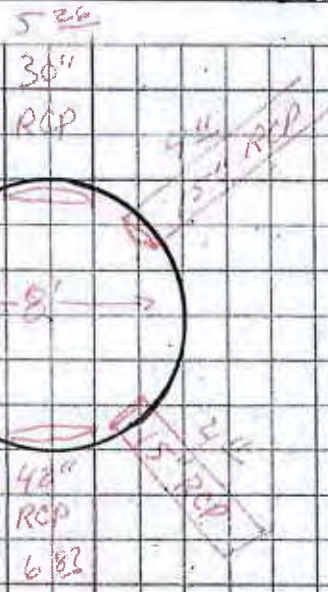
Manhole # 17 Location 7th + McKnight Ave Date 3-5-10

Notes East Center Intersection

COA MH # 6149

COA 6149
RIM: 4963.38
MH INV: 4956.51

SWMM 57-733
COA 44-308'
INV: 4956.51



SWMM 57
COA 44

42" RCP
6.82

30" RCP
5.26

CLEAN

Depth

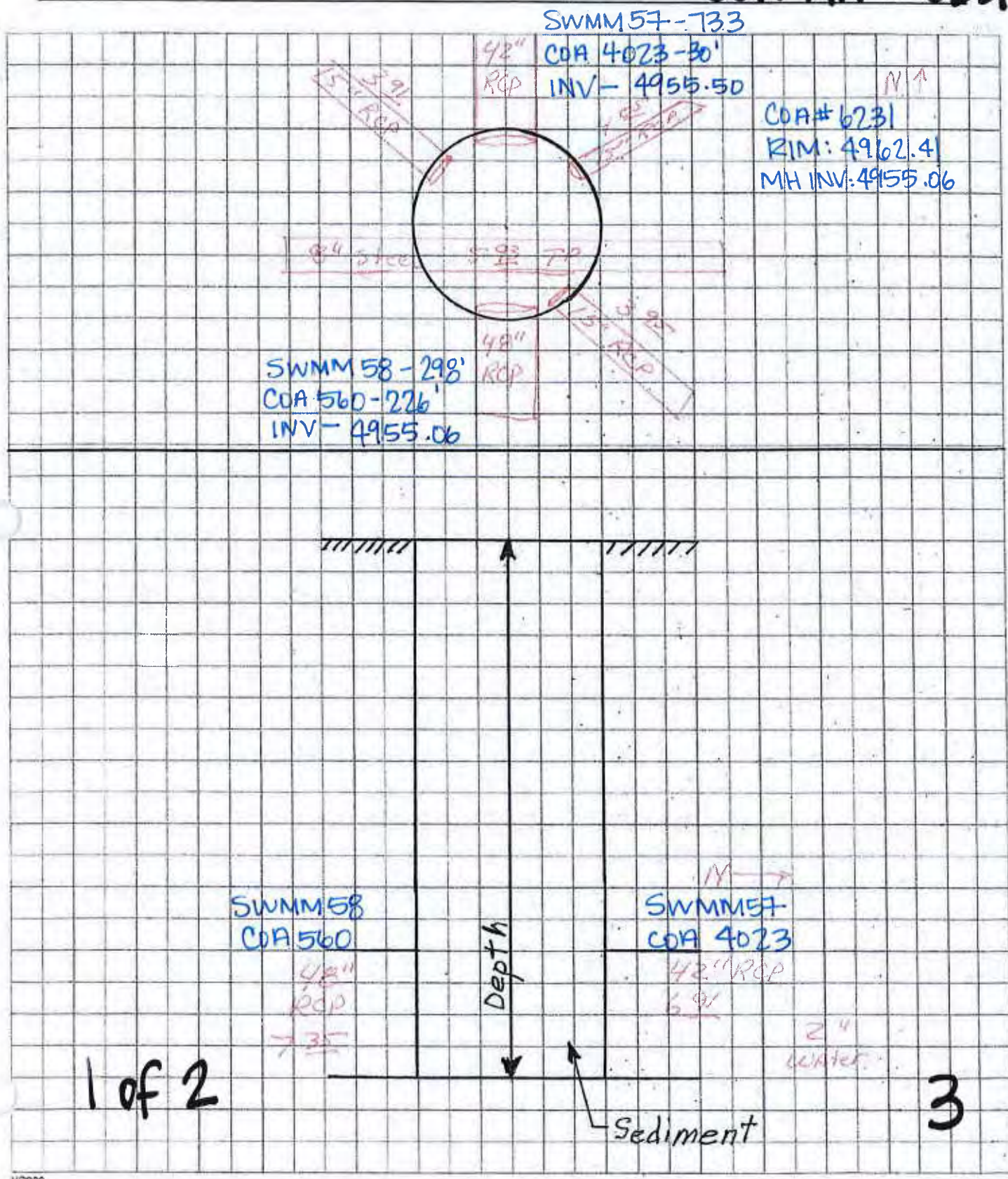
Sediment

1 of 2

Manhole # 15 Location 7th + HAINES AVE Date 3-5-20

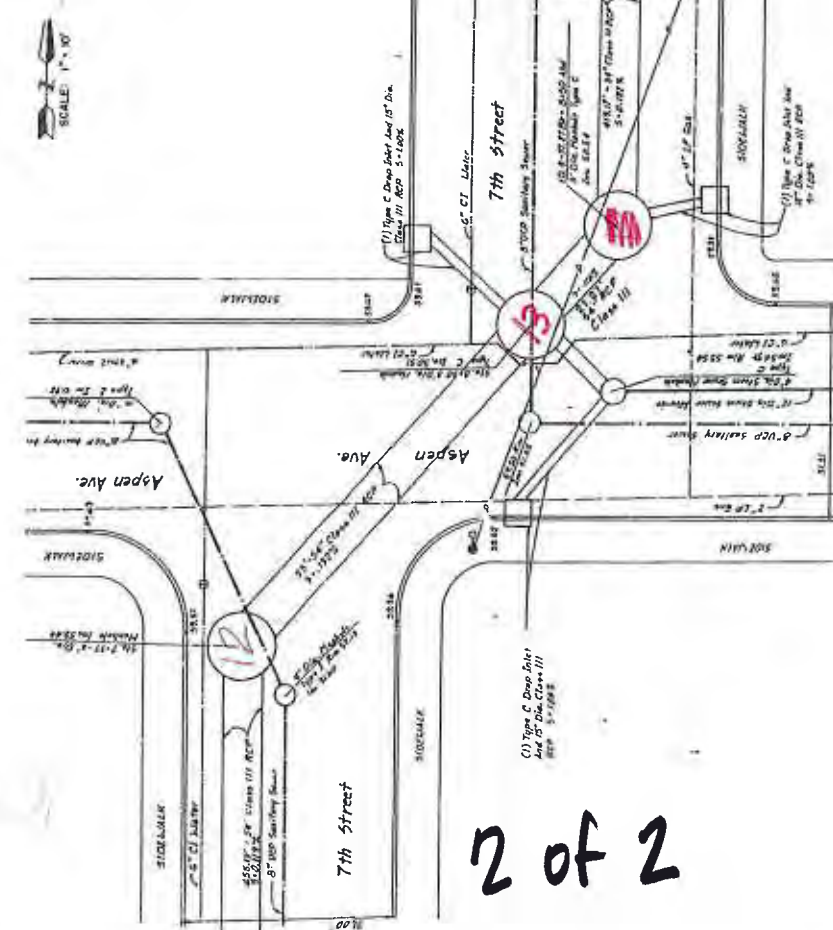
Notes Epot Center Intersection

COA MH # 6231

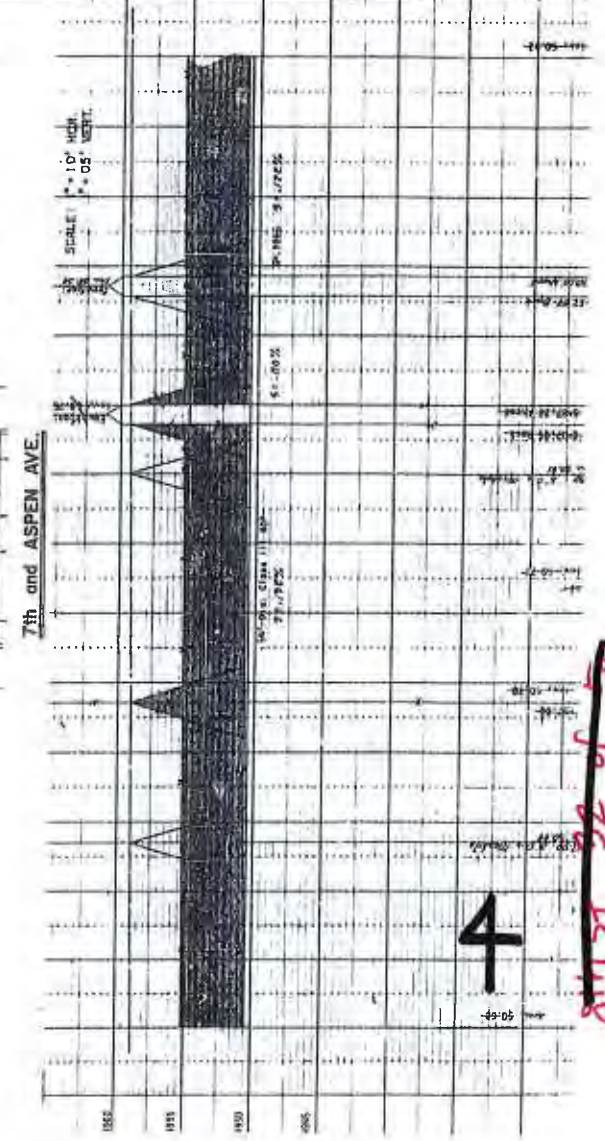


1 of 2

3

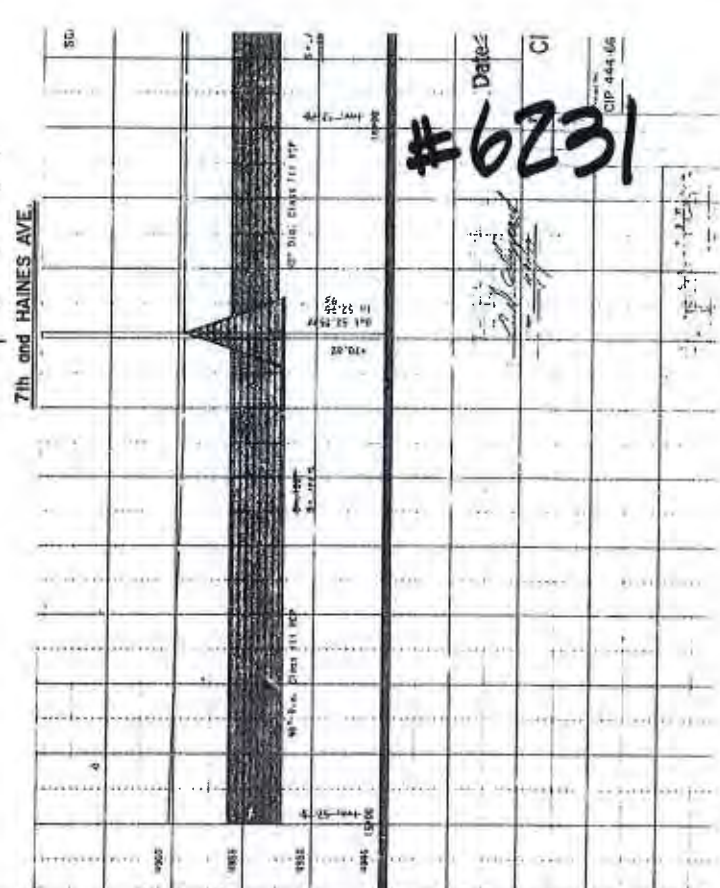
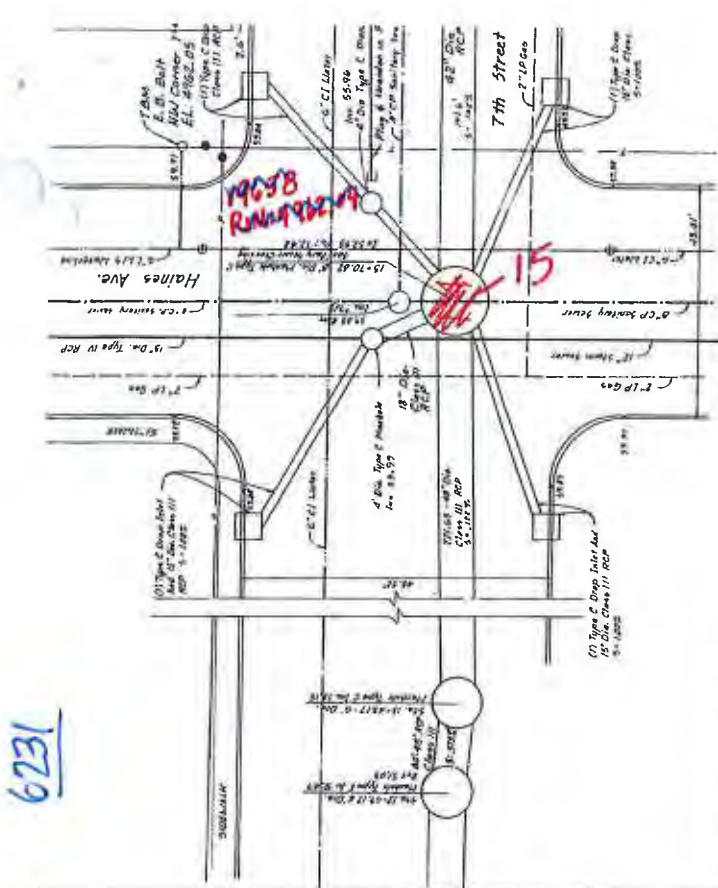


2 of 2



4

5th St 52 of 55



#6231

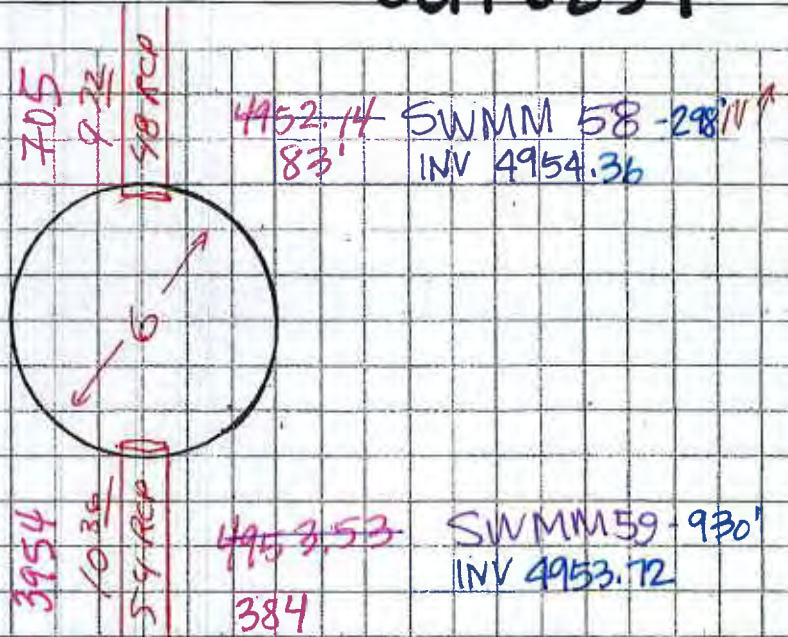
D. J. G. G. G.

CIP 444-66

6231

Manhole # ~~20835~~ Location 7th ST. Date 5-5-10
Notes M.H @ R.R. TRACKS South side South of Haines
COA 6259

COA # 6259
~~RIM 4962.89~~
~~M.H. INV 4953.53~~
RIM: 4964.08
INV: 4953.72



1 of 2

54
RCP

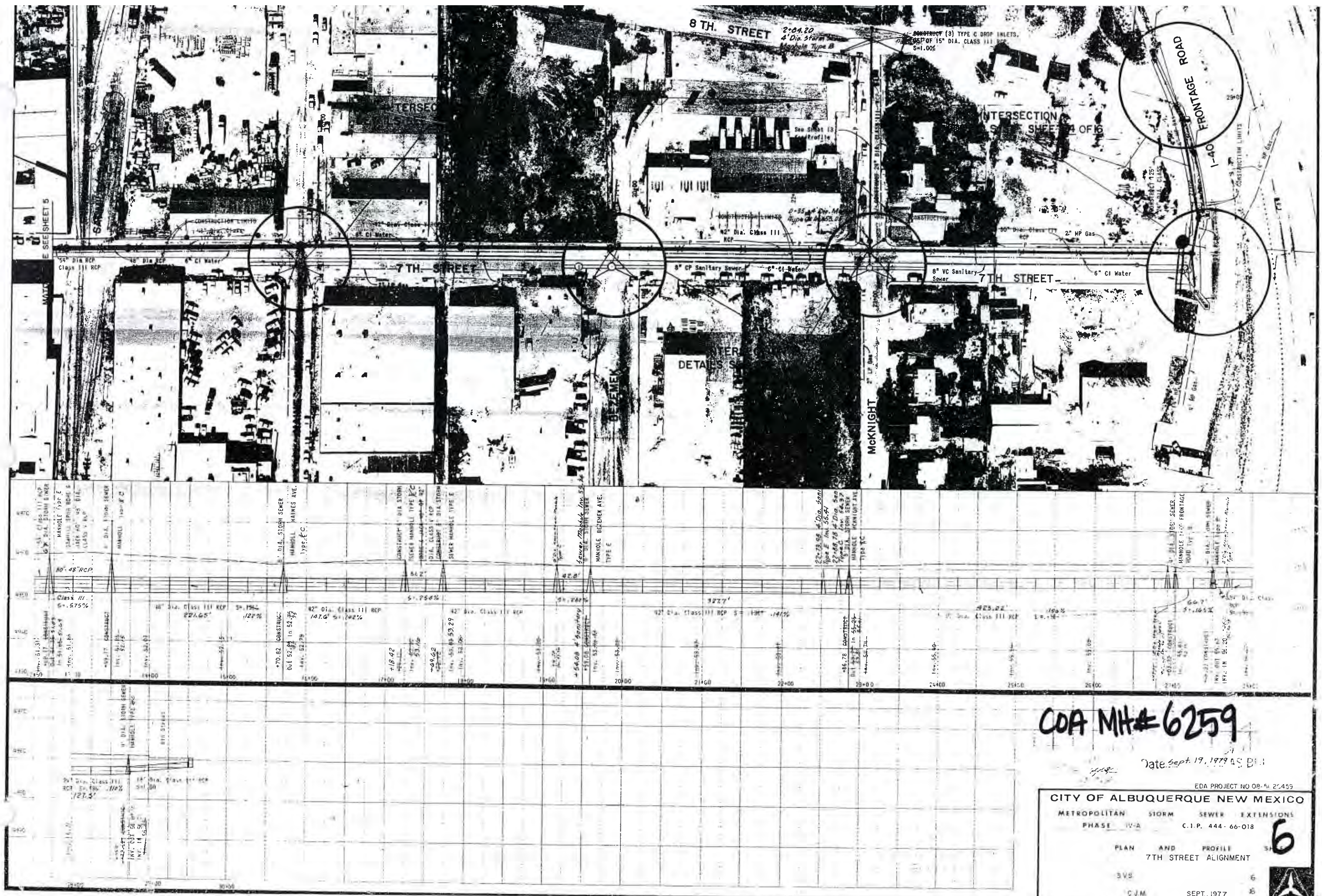
10.36

Depth

48
RCP

Sediment

5



COA MH# 6259

Date Sept. 19, 1977 AS B.I.

EDA PROJECT NO 08-54 21459

CITY OF ALBUQUERQUE NEW MEXICO

METROPOLITAN STORM SEWER EXTENSIONS

PHASE IV-A C.I.P. 444-66-018

PLAN AND PROFILE
7TH STREET ALIGNMENT

SVS
CJM

SEPT., 1977

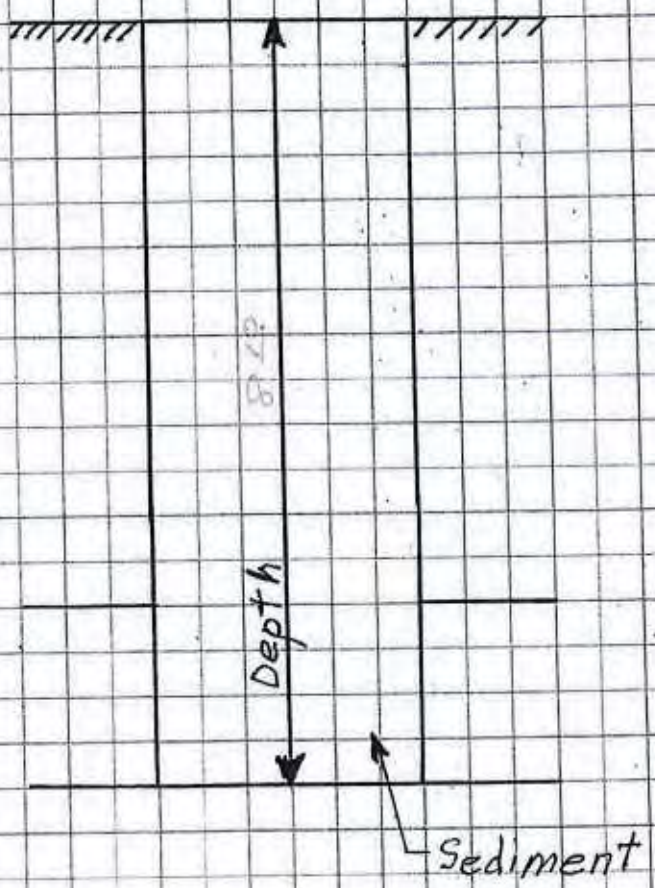
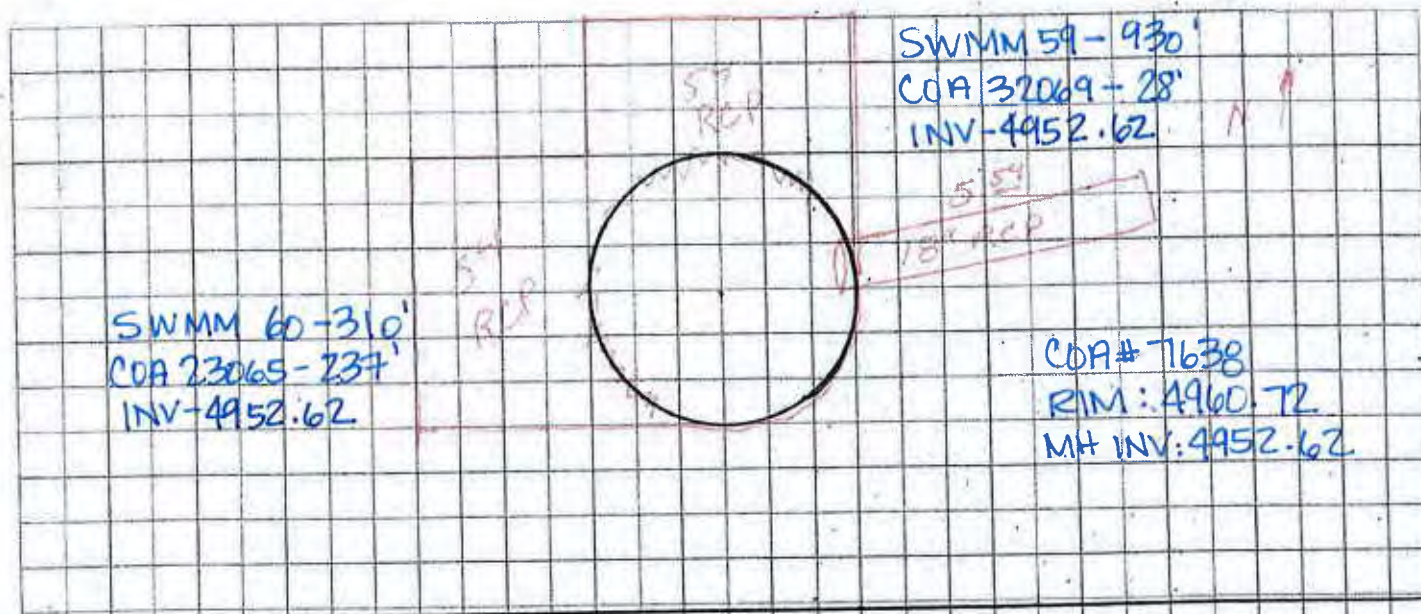
6



Manhole # 12 Location 7th + BELLAMAH AVE Date 3-5-10

Notes N.W. Inter Section

COA MH #7638



1 of 2

7

Manhole # 11060

Location 8th + BELLAMAH.

Date 5-16-11

Notes S.W. Inter Section

COA MH # 25807

COA 25807

N ↑

RIM - 4960.46

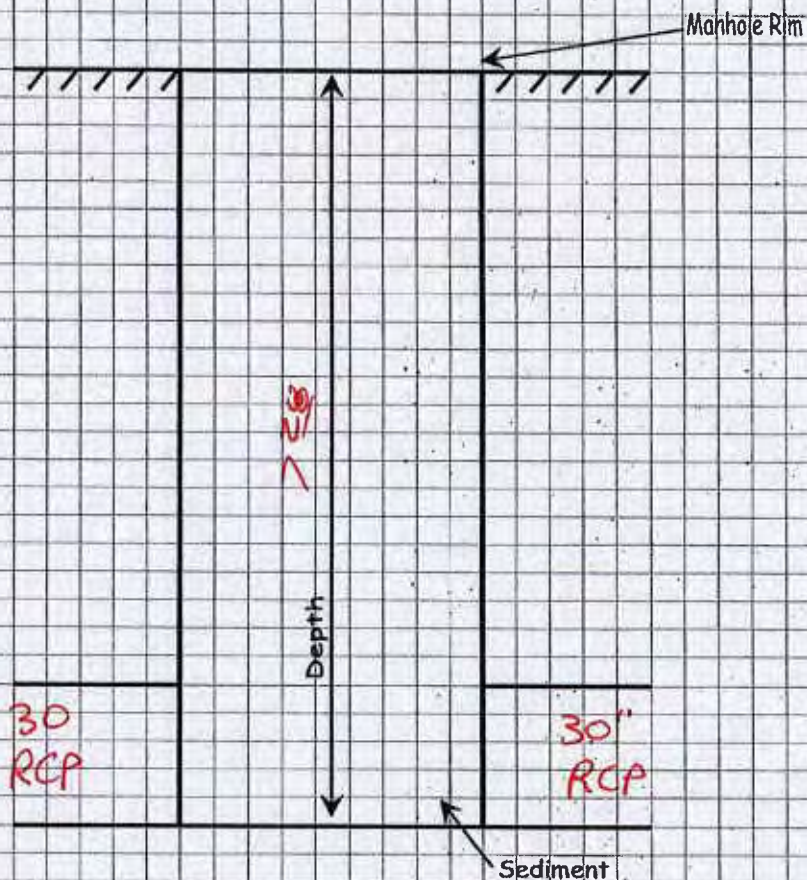
MH INV - 4953.18

30" RCP
SWMM 61-2789
COA 23067-191
INV 4953.18

SWMM 60-310

COA 23065-237

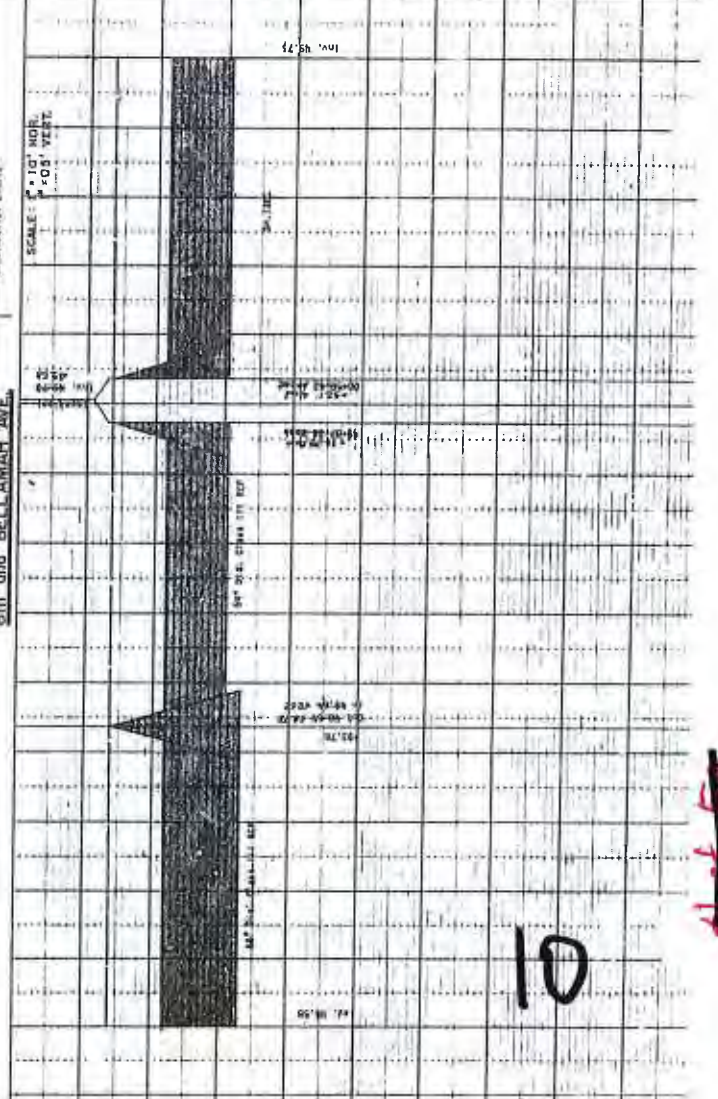
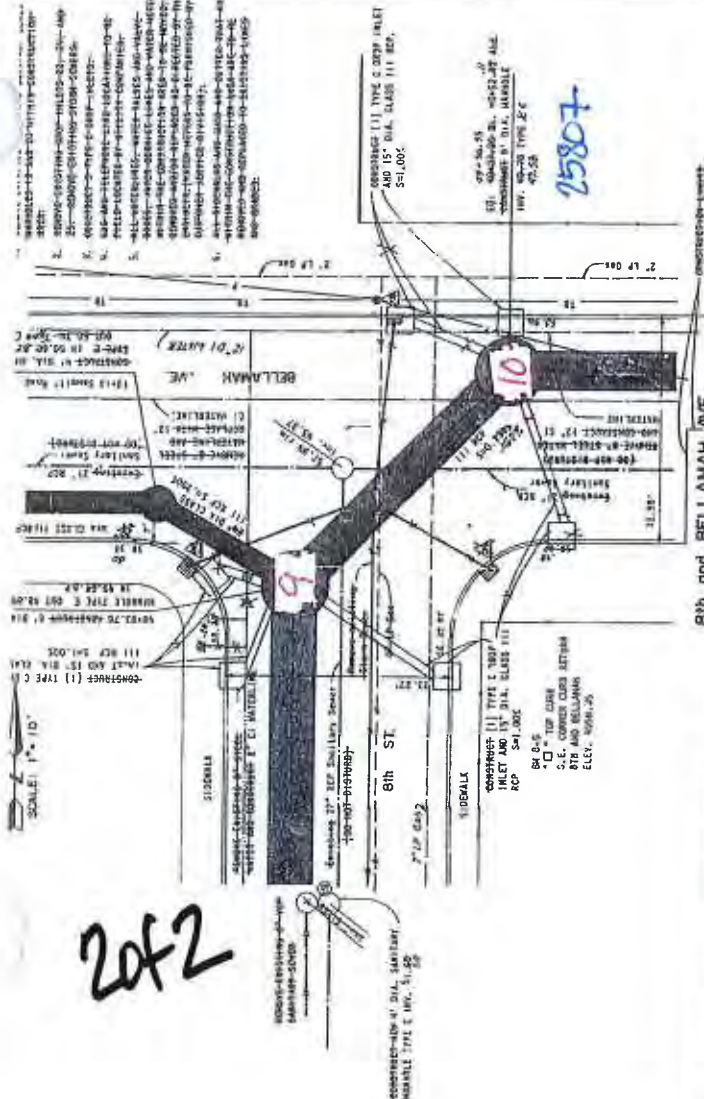
INV - 4953.18



1 of 2

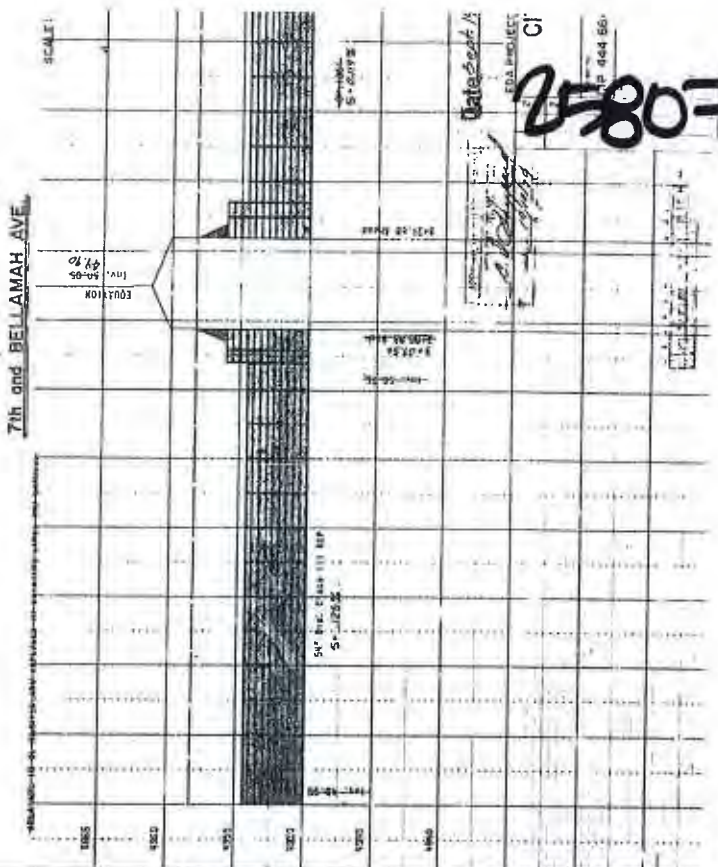
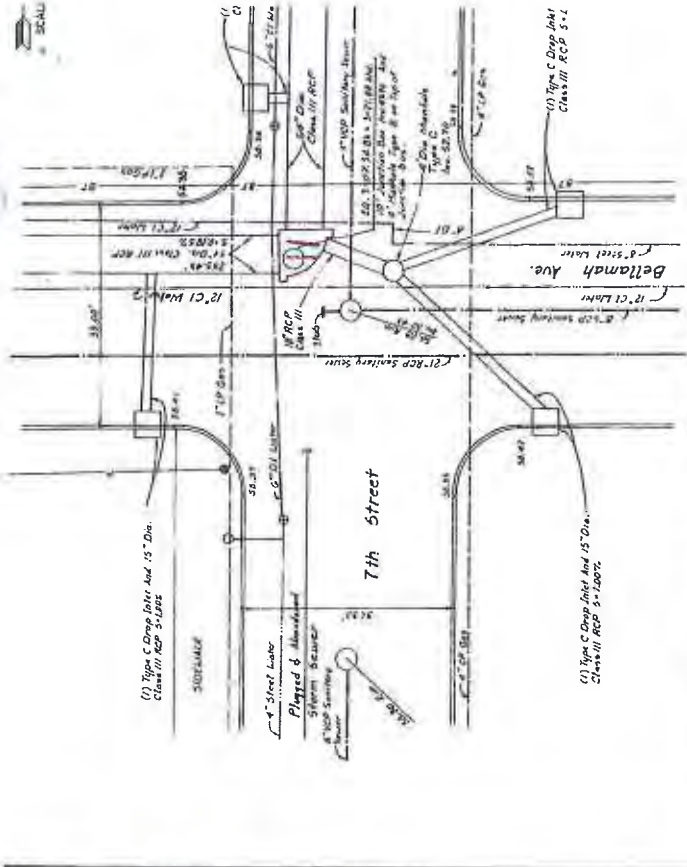
9

2 of 2



10

21 of 50



10

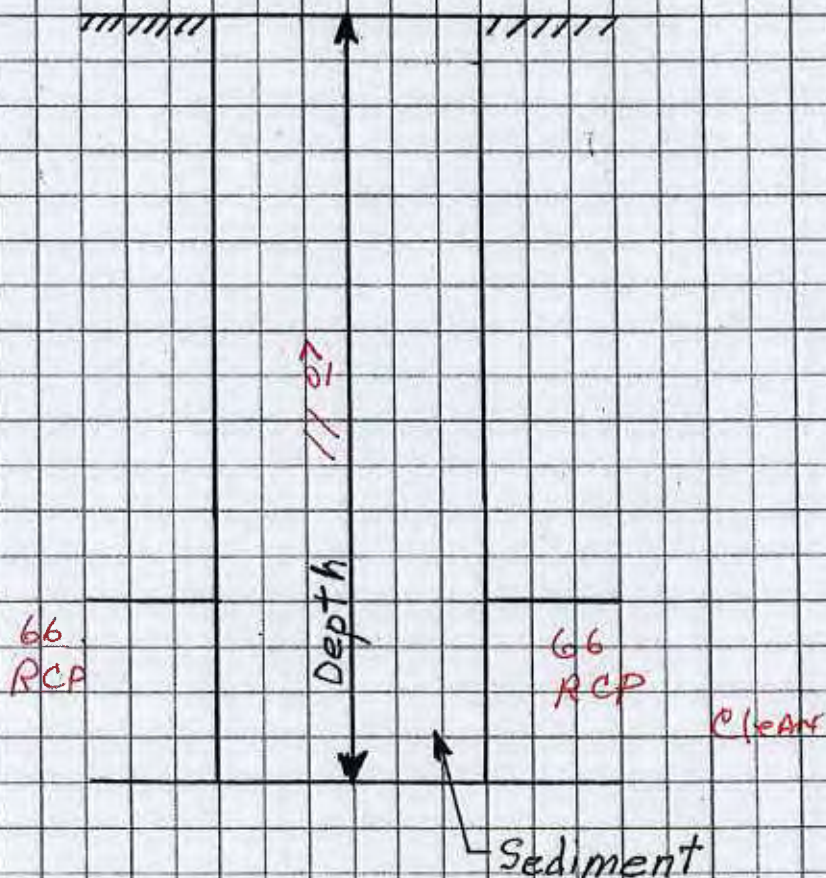
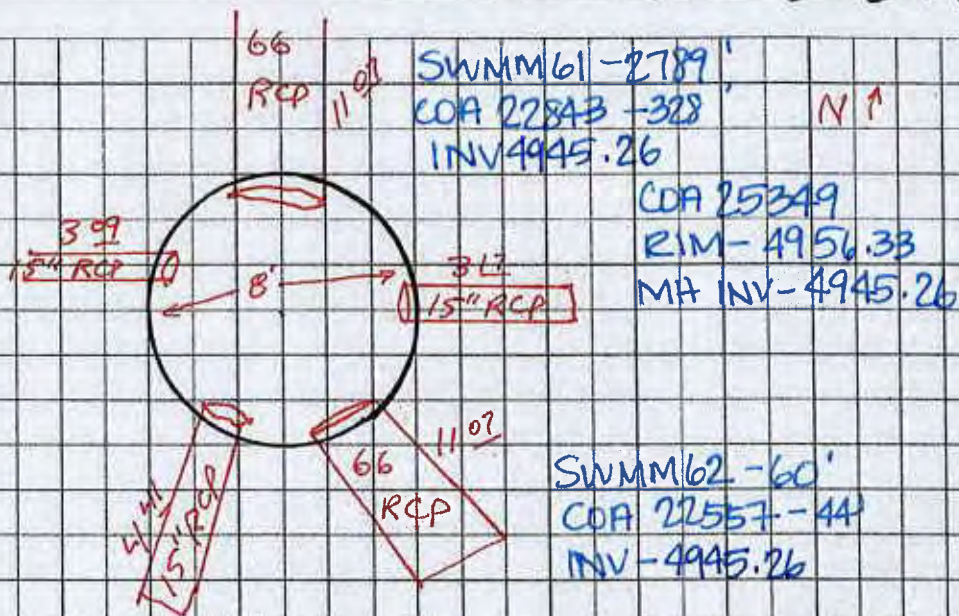
21 of 50

Manhole # 2 Location 8th + SLATE AVE

Date 3-5-10

Notes S.W. Inter Section

COA MH #25349



1 of 2

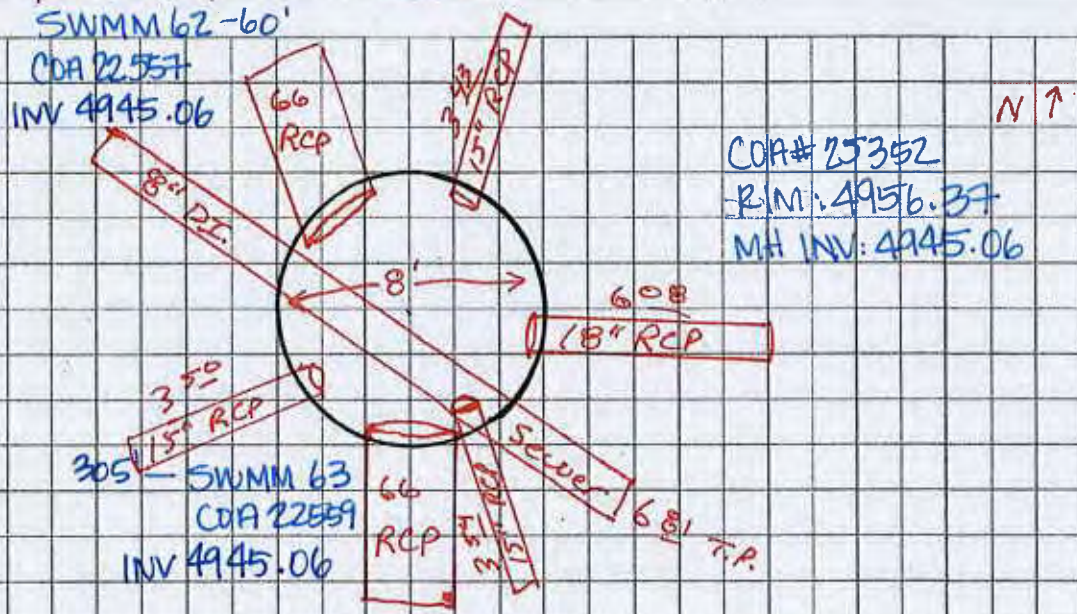
11

Manhole # 1 Location 8th + STATE AVE Date 3-5-10

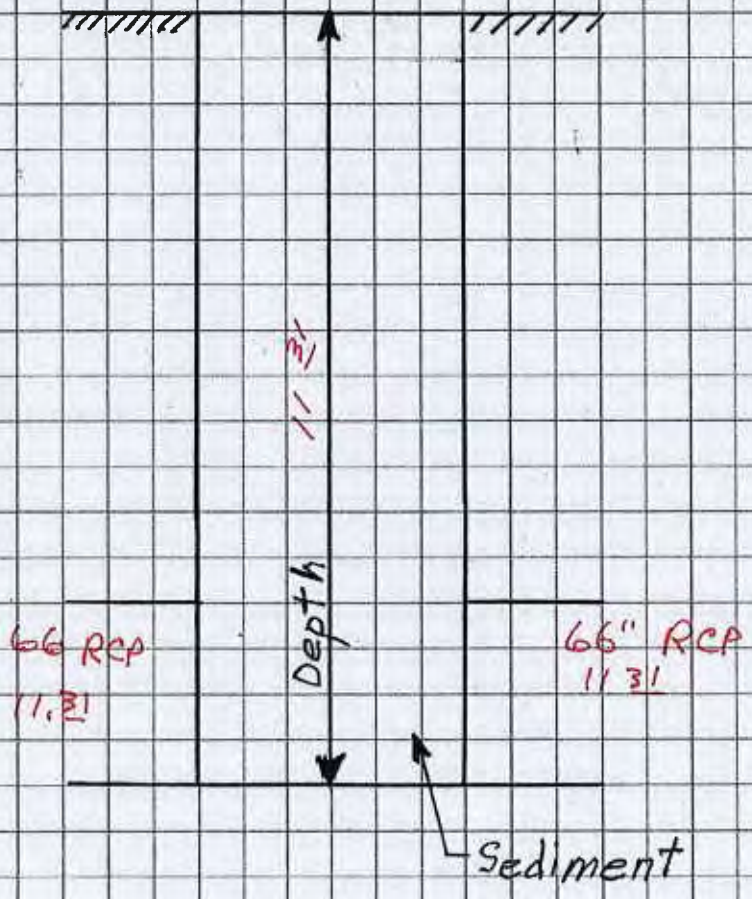
Notes S.E. Intersection

CDA MH # 25352

Water Seeping Through M.H. Wall



1 of 2

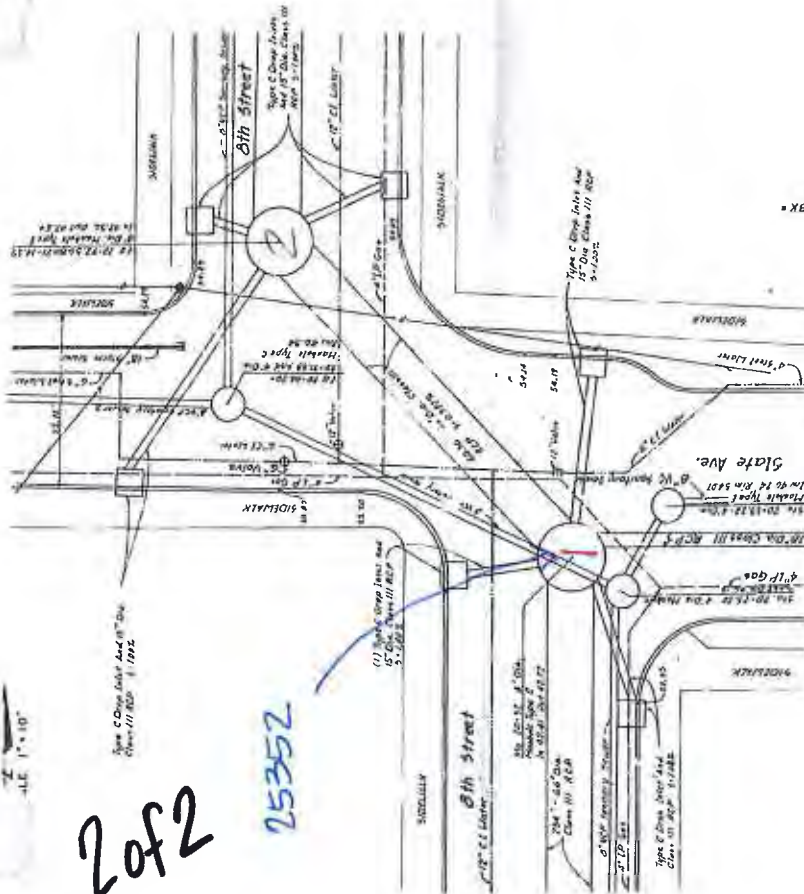


13

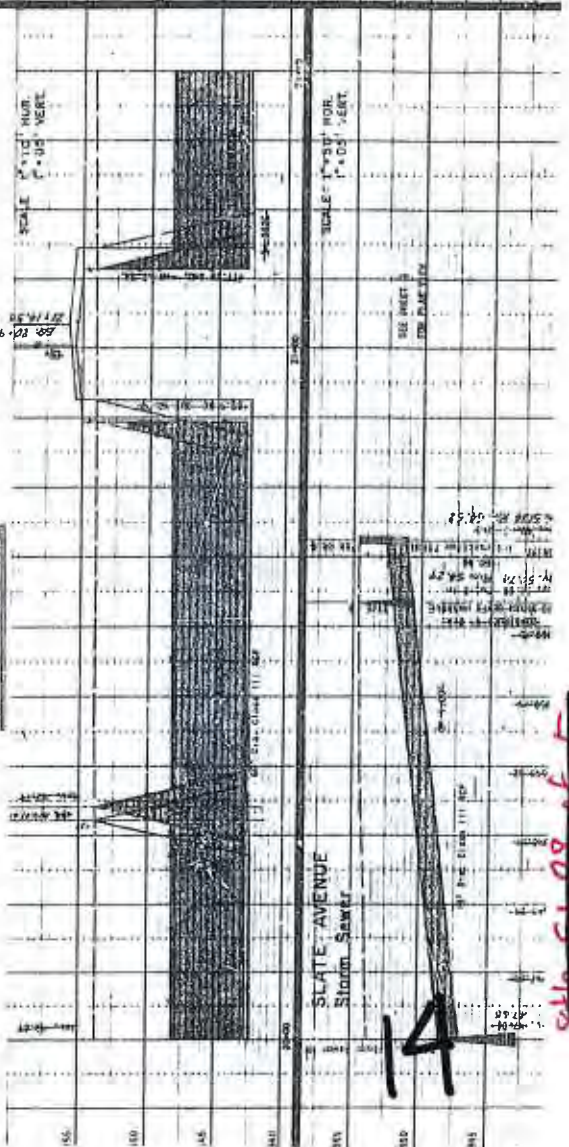
Clean

2 of 2

25352



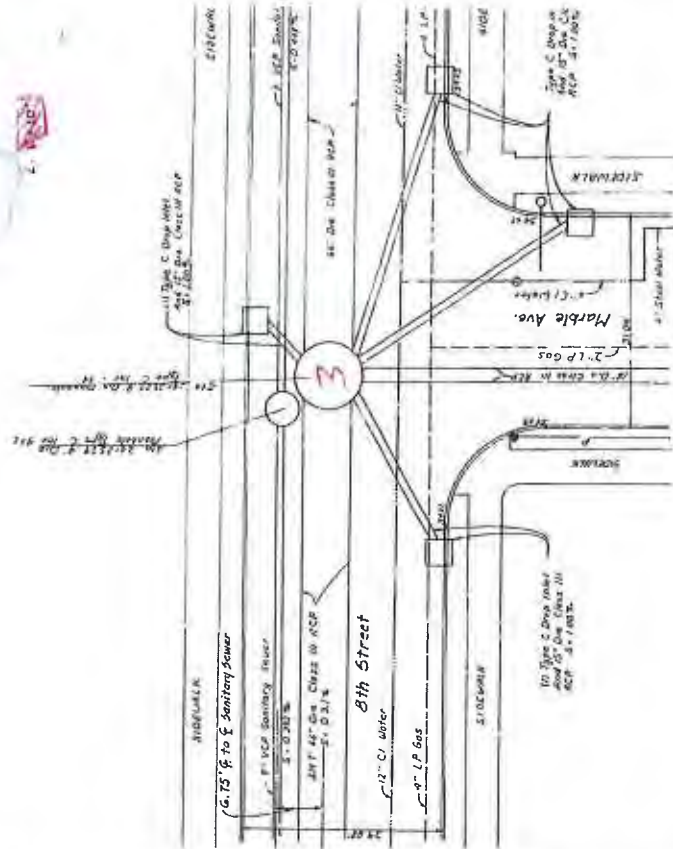
8th and SLATE AVE.



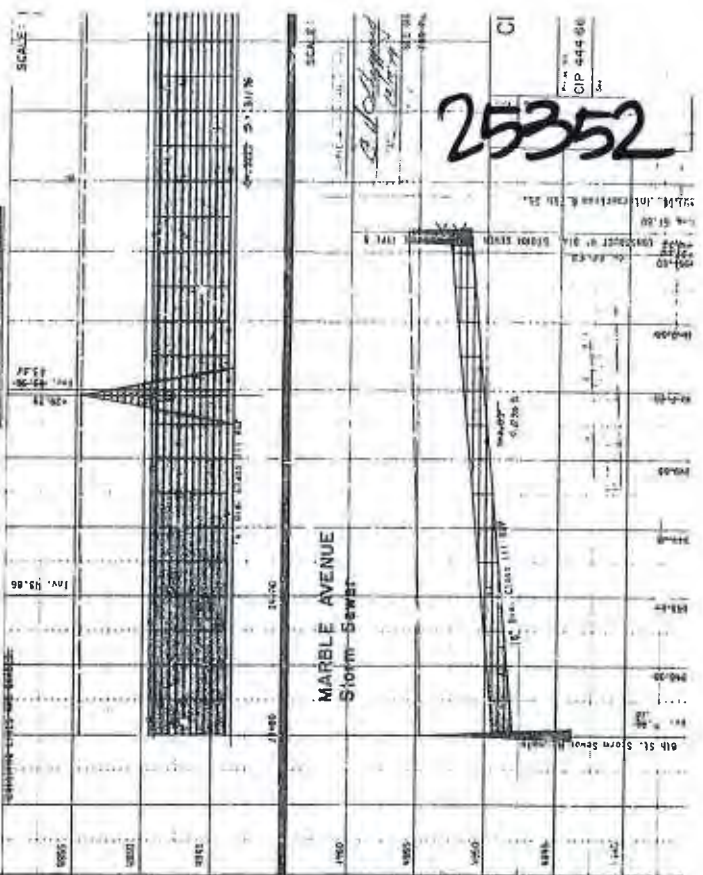
SLATE AVENUE
Storm Sewer

14

8th St 28 of 50



8th and MARBLE AVE.



MARBLE AVENUE
Storm Sewer

25352

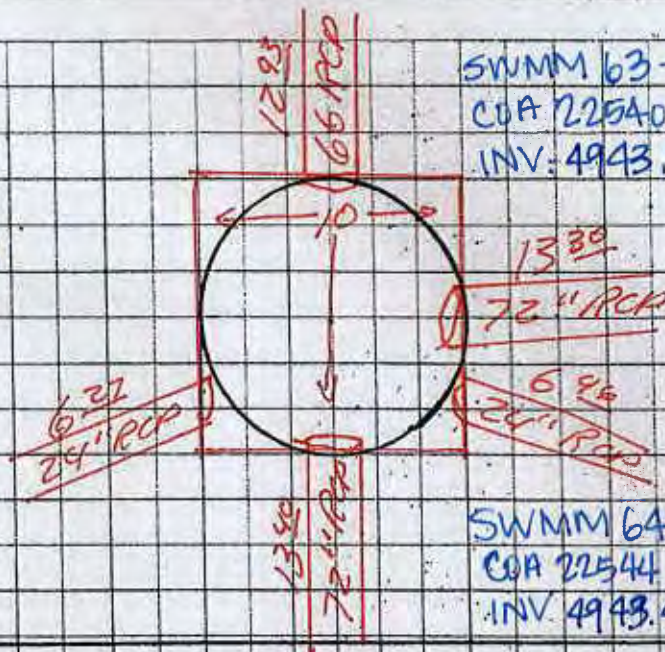
CIP 444-80

Manhole # 1 Location Comas + 8th Date 9-20-10

Notes North Center Intersection

COA MH # 7815

COA # 7815
RIM 4956.88
MH INV: 4943.48



SWMM 63-305'
COA 22540-46'
INV: 4943.95

SWMM 56-739'
COA T193-24'
INV: 4943.58

SWMM 64-1481
COA 22544
INV: 4943.48



13.40'

Depth

72"
RCP

72"
RCP

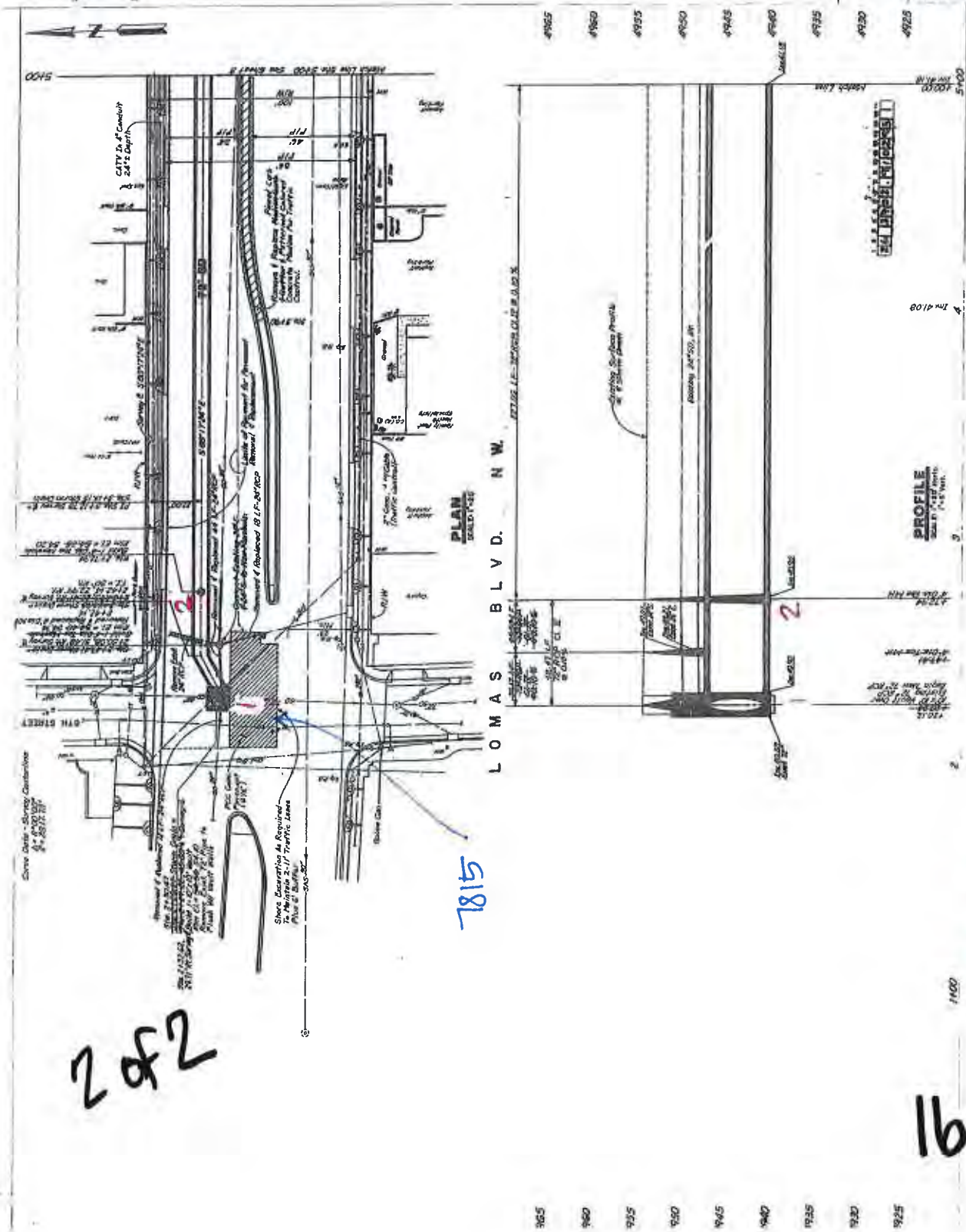
Sediment

1 of 2

15

PROJECT NO. 1000
 DATE: 10/1/77
 DRAWN BY: J. J. JONES
 CHECKED BY: J. J. JONES
 APPROVED BY: J. J. JONES
 PROJECT LOCATION: 1000
 PROJECT DESCRIPTION: 1000
 PROJECT OWNER: 1000
 PROJECT ADDRESS: 1000
 PROJECT CITY: 1000
 PROJECT STATE: 1000
 PROJECT ZIP: 1000
 PROJECT PHONE: 1000
 PROJECT FAX: 1000
 PROJECT E-MAIL: 1000
 PROJECT WEBSITE: 1000
 PROJECT CONTACT: 1000
 PROJECT NOTES: 1000

7815
 LOMAS BOULEVARD
 STORM DRAIN - PHASE II
 PLAN & PROFILE - STA 2800+00 TO 3750+00
 DATE: 10/1/77
 DRAWN BY: J. J. JONES
 CHECKED BY: J. J. JONES
 APPROVED BY: J. J. JONES



282

7815

16

LOMAS 29 of 47

Manhole #

Location Eighth Street

&

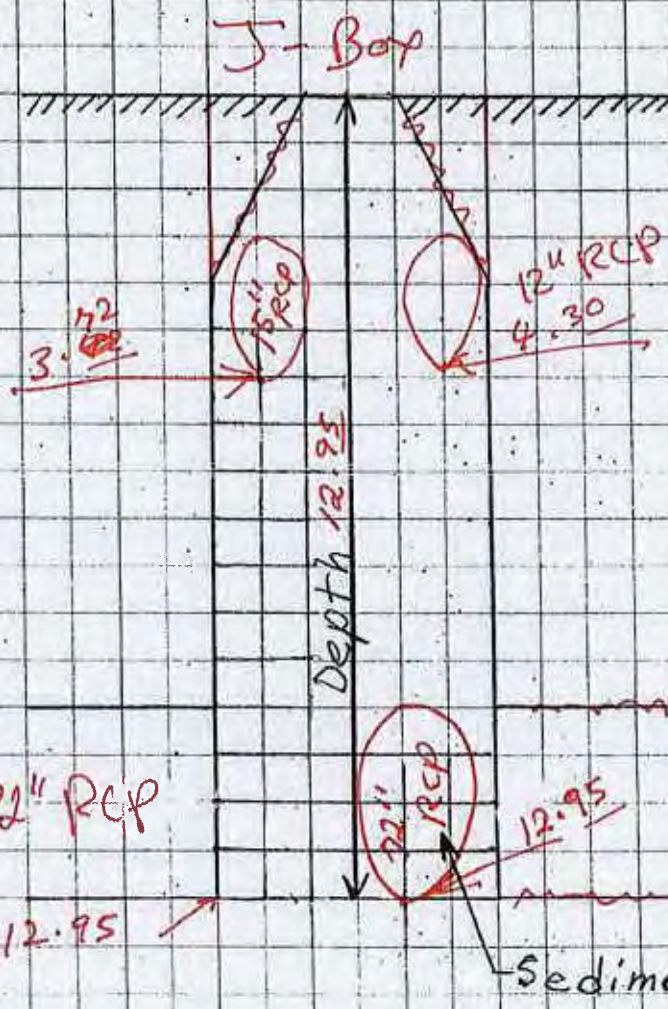
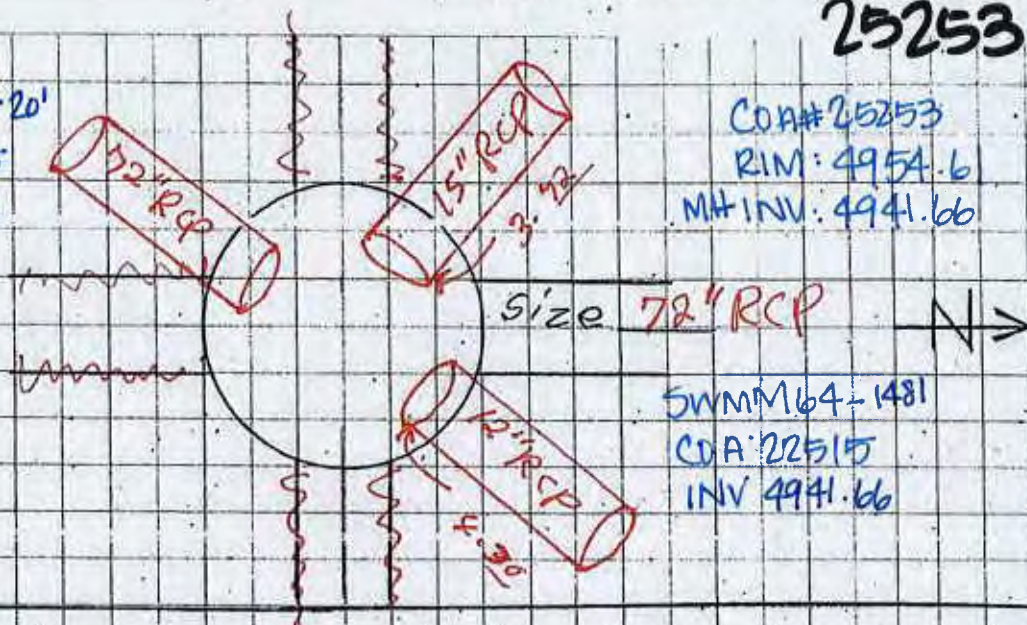
Notes

J-Box #4 north of Tigras South Line

COA MH # ~~22455~~
25253

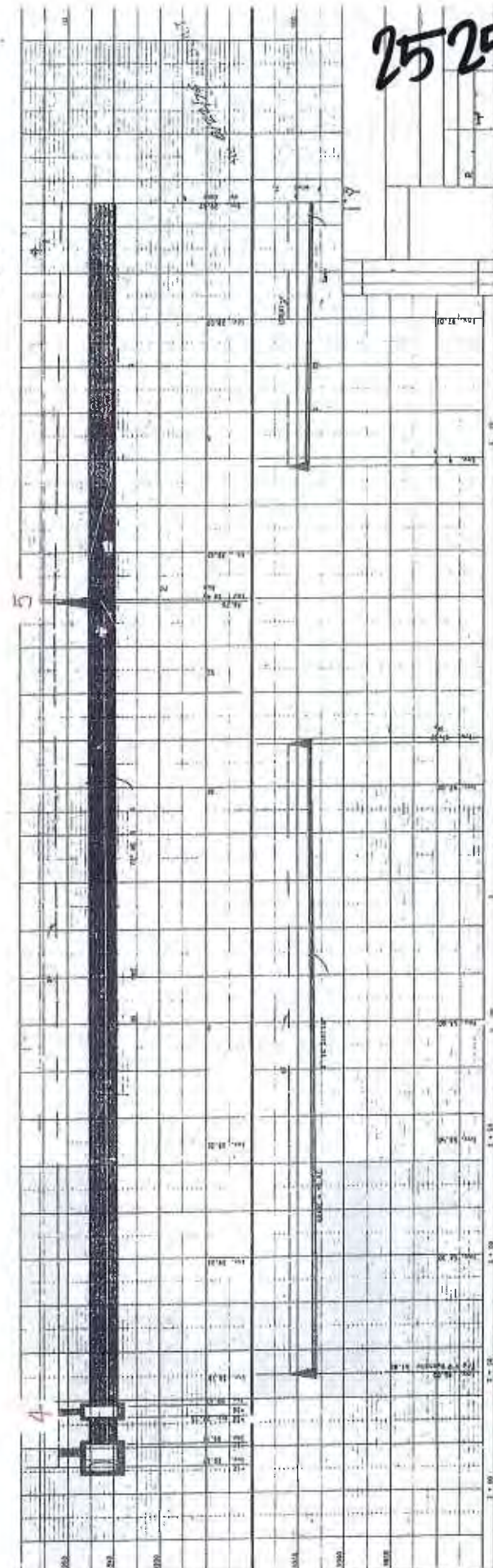
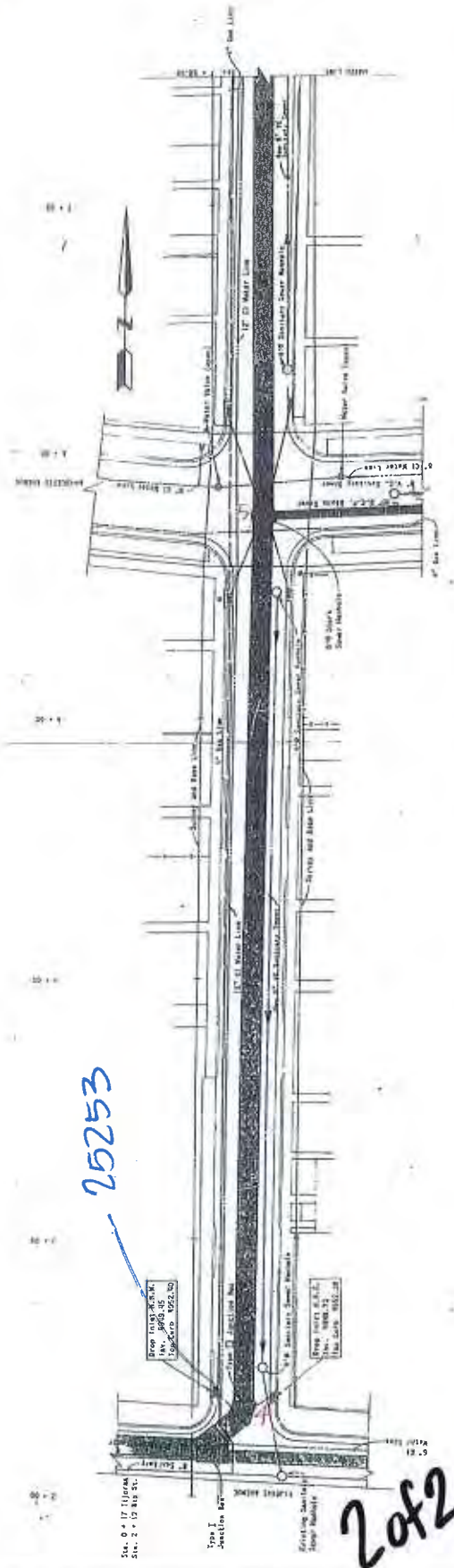
SWMM65-20'
COA 22455
INV 4941.66

COA#25253
RIM: 4954.6
MH INV: 4941.66



1 of 2

25 253



18

Manhole #

Location

Eighth Street

&

Tigers

Notes

J-Box

North west Intersection west Bound Lane

COA MH # 7977

COA # 7977
RIM 4955.02
MH INV 4941.94

SWMM 65-20'
COA 22455
INV 4941.94

SWMM 66-131'
COA 22439-121'
INV 4941.94

72" RCP

Size 48" RCP

J-Box

Depth 13.05

72" RCP
13.05

Depth 12.80

72" RCP

48" RCP

1 of 2

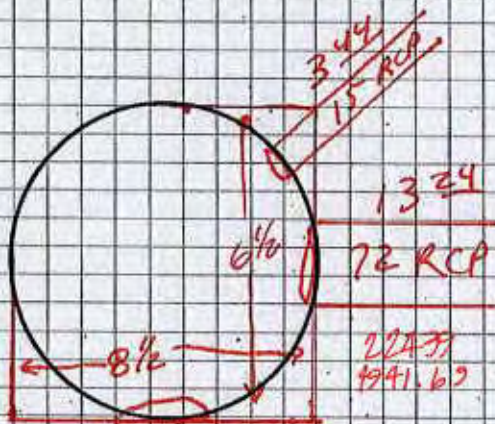
19

Sediment Depth water in pipe 4"

Manhole # 11135 Location 8th + Tijeras Date 5-17-11
Notes North Center Intersection

COA MH # 25238

COA 25238
RIM 4954.67
MH INV 4941.20



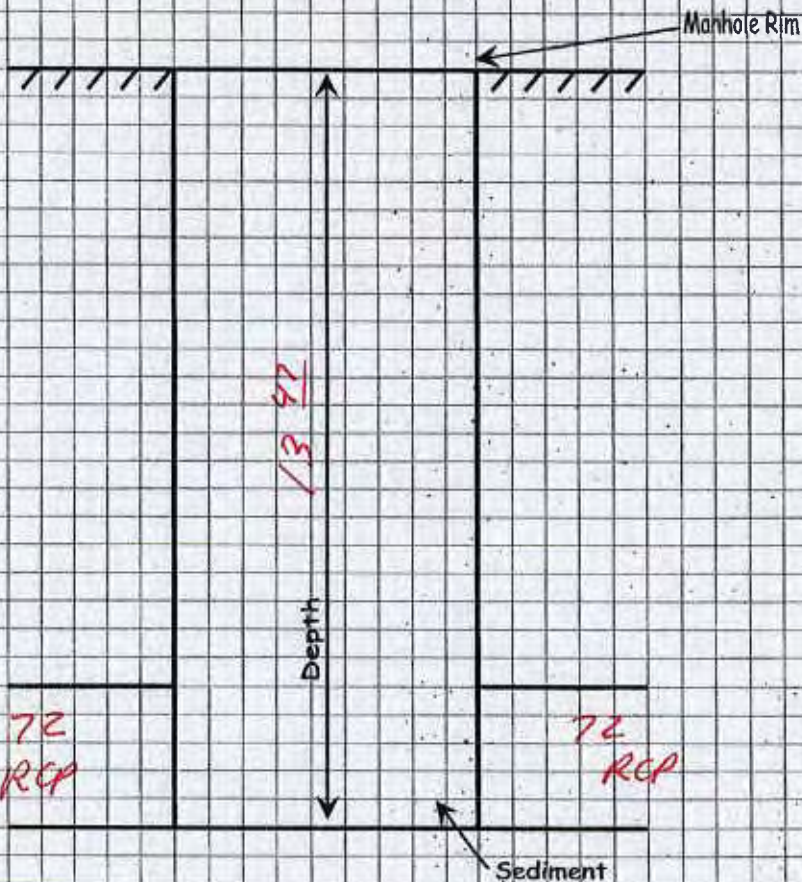
SWMM 66-131'
INV. 4941.43

TOP 6'
is Round

SWMM 67-23'
INV 4941.20

13 1/2'
12 RCP

22444
4941.46



1 of 2

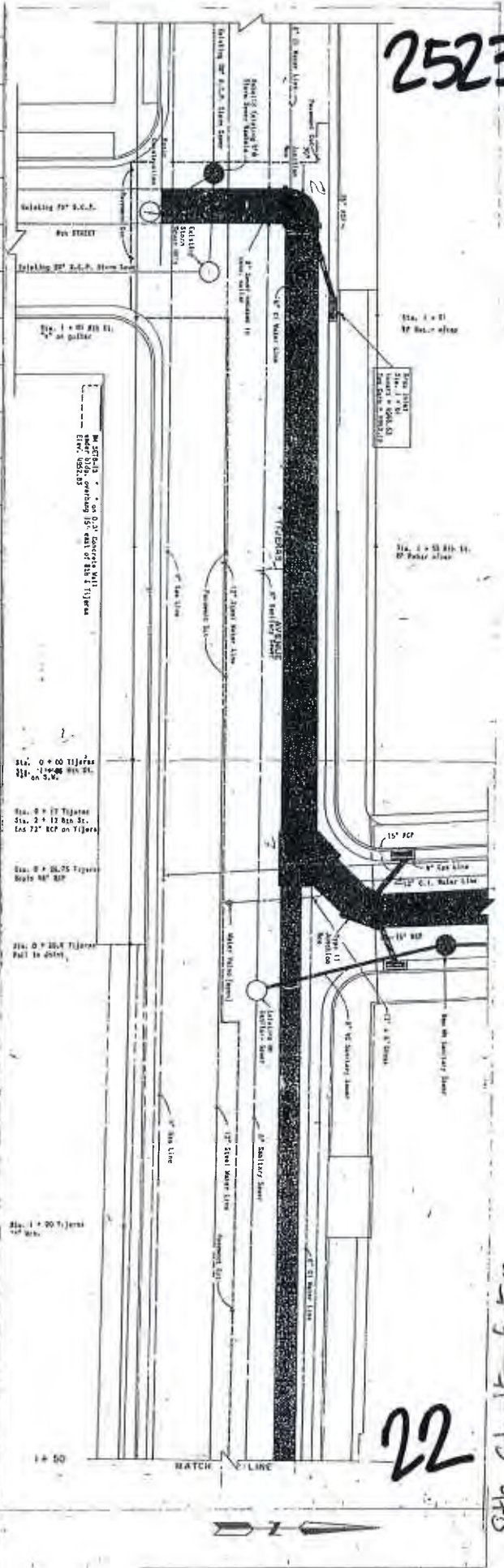
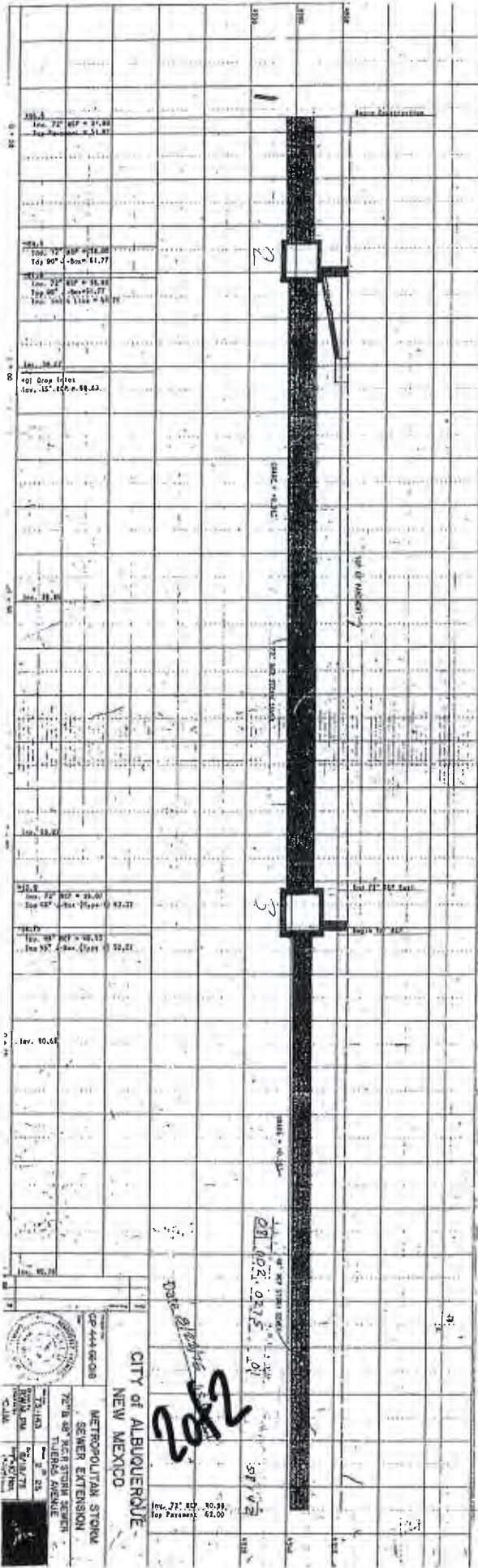
21

25238

25238

22

AS 10-51-95 478



CITY OF ALBUQUERQUE
NEW MEXICO
METROPOLITAN STORM
SEWER EXTENSION
TUENIA AVENUE
SHEET 22 OF 23

2012

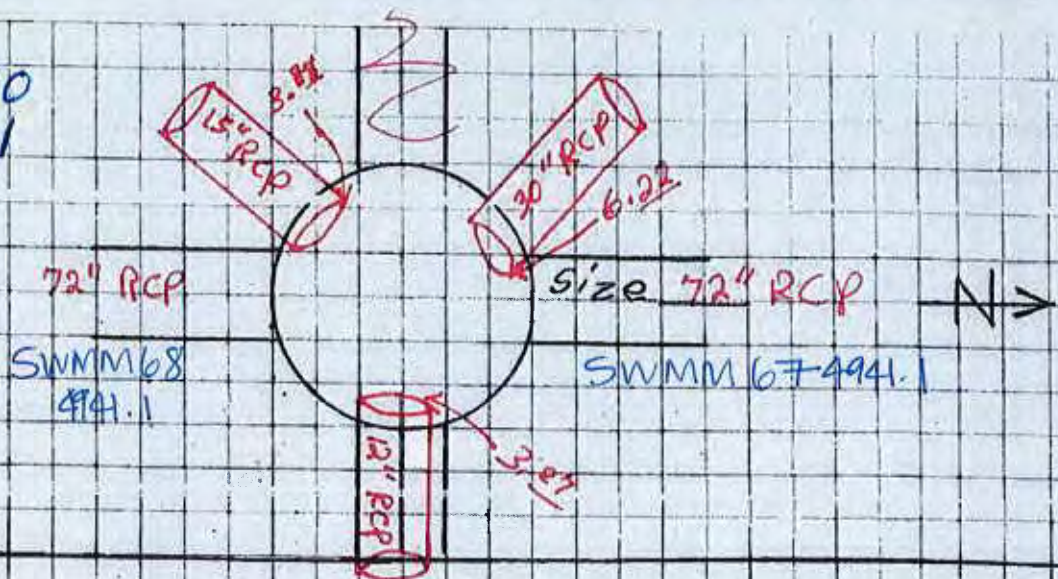
Sta. 0+75 BCP = 10.39
Top of Manhole = 61.00

Manhole # 25240 Location Eighth Street & TIGERAS

Notes 8' M H # 1 South West Intersection

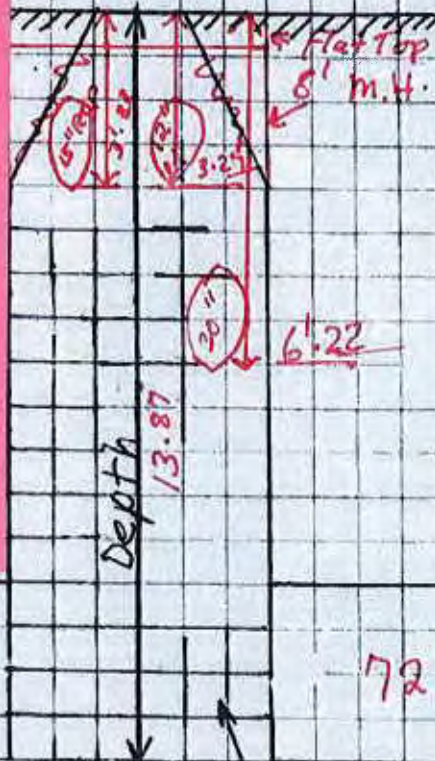
COA MH # 25240

Assume
Rim Elevation 55.0
72" Invert 41.1



* CORRECTION FROM
JOHN CURTIN -

JUNE 15, 2011



1 of 3

72" RCP

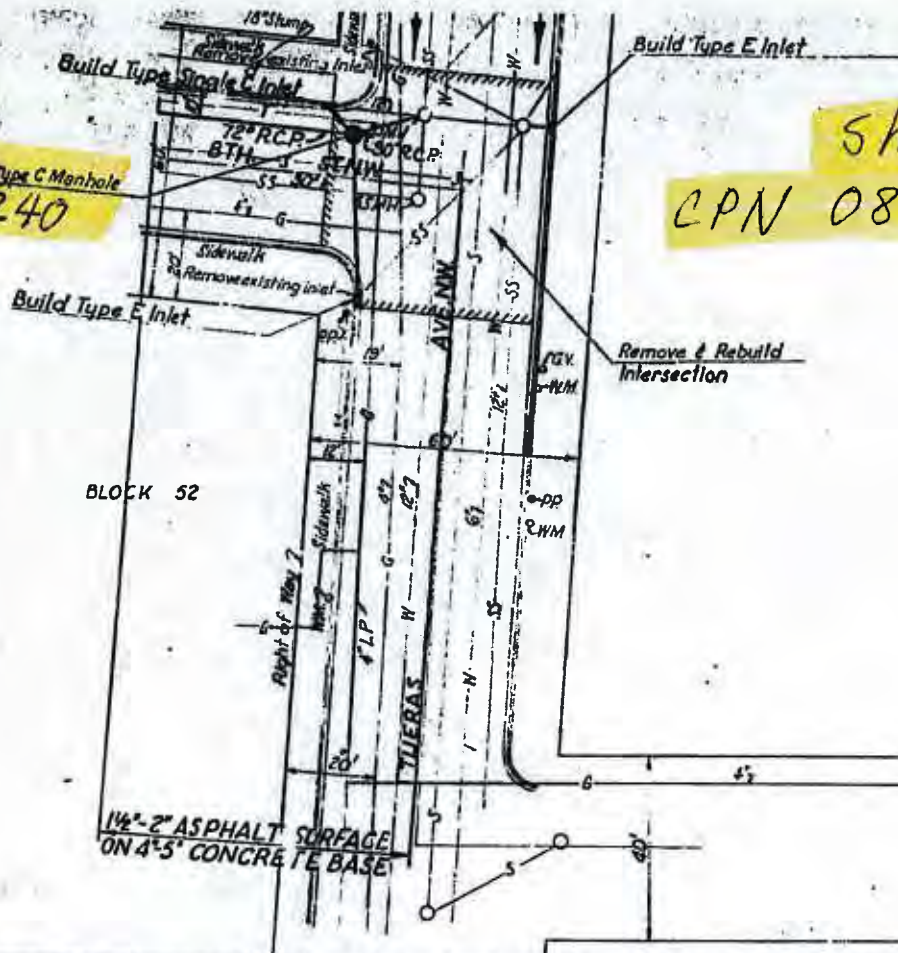
72" RCP

23.1

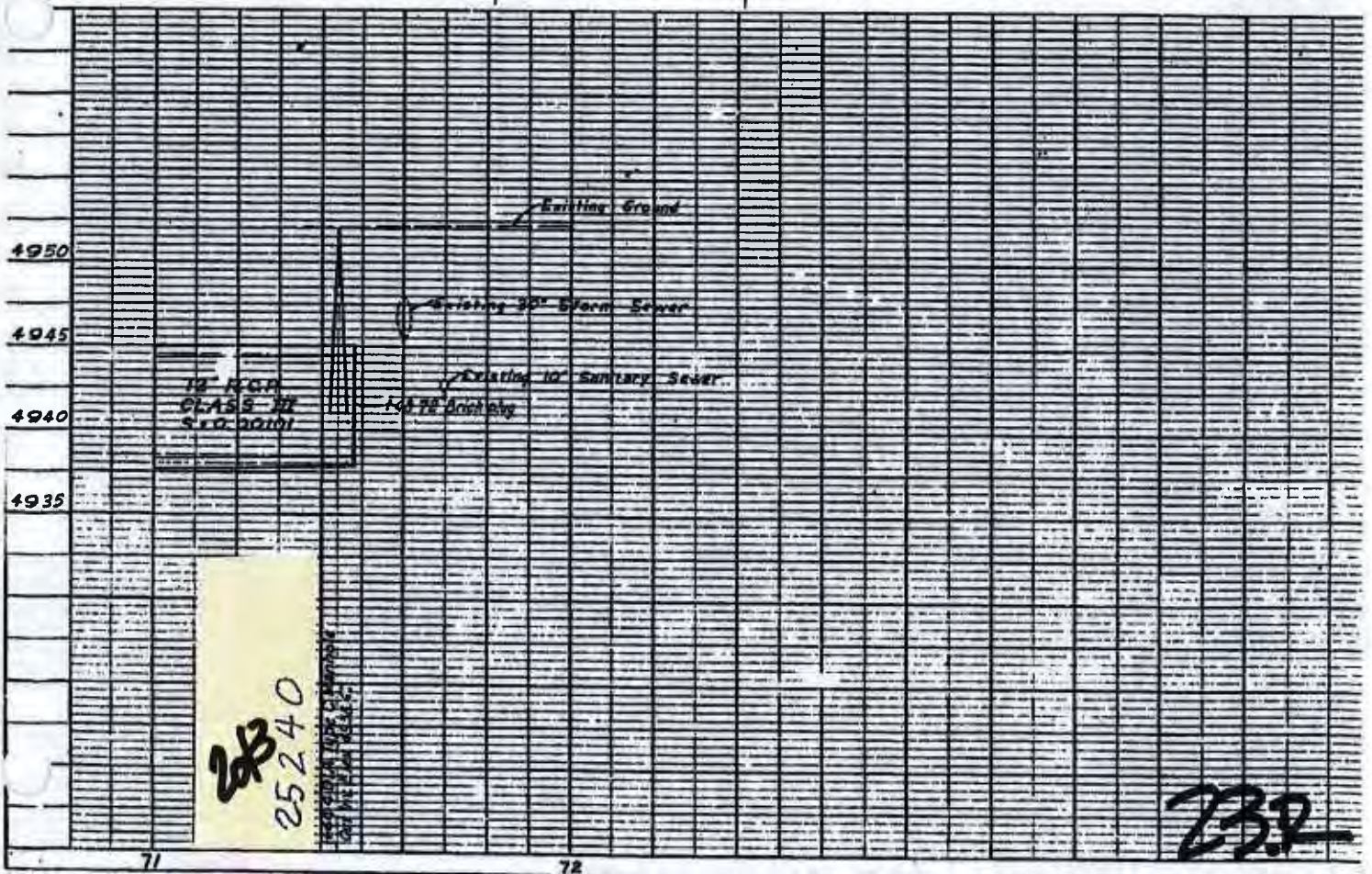
Sediment Depth 0

Build 4' DIA. Type C Manhole
25240

Sheet 15
CPN 08-623-62

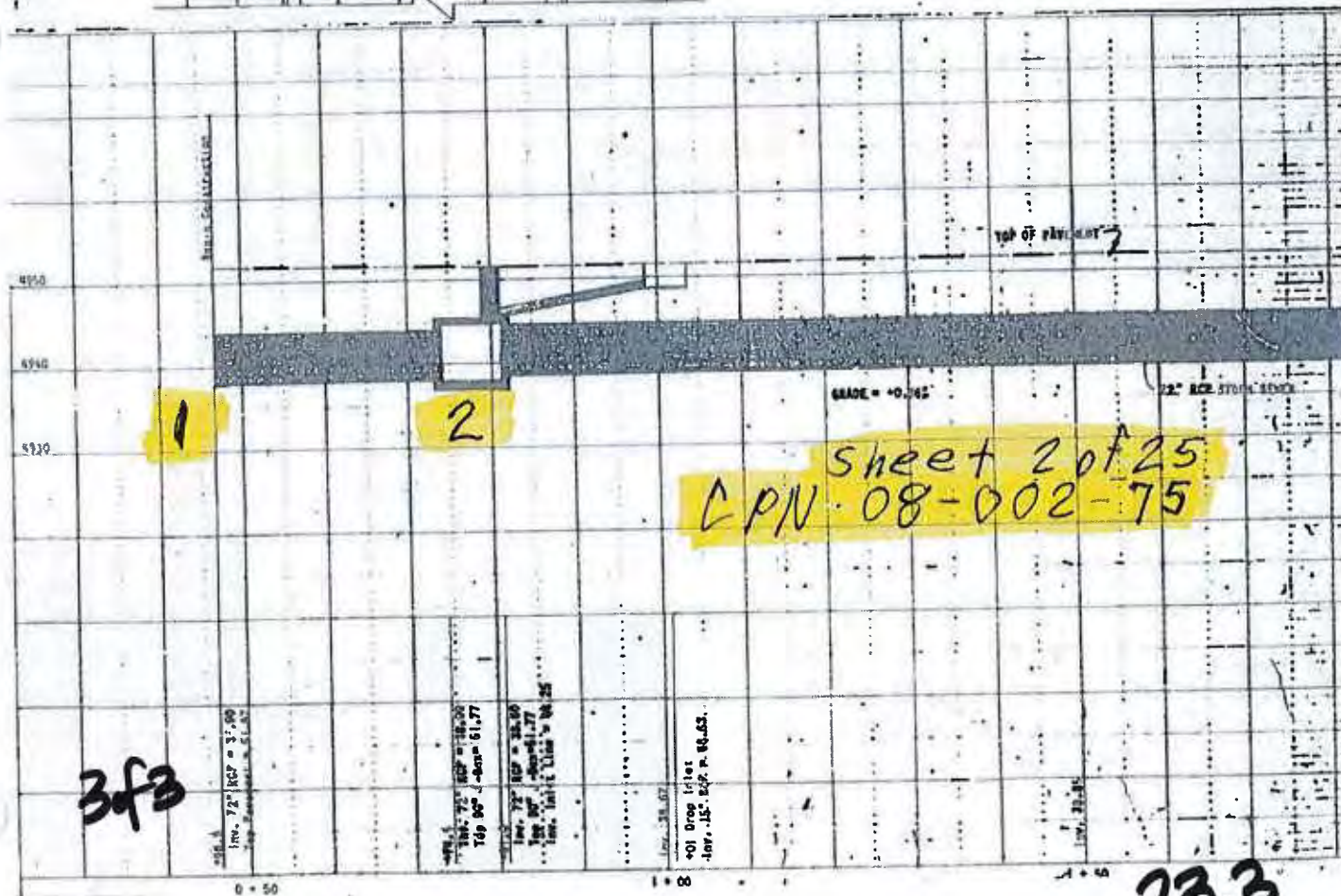


B.M. Chis G
pillar 302
ELEV. 49:



25240

232



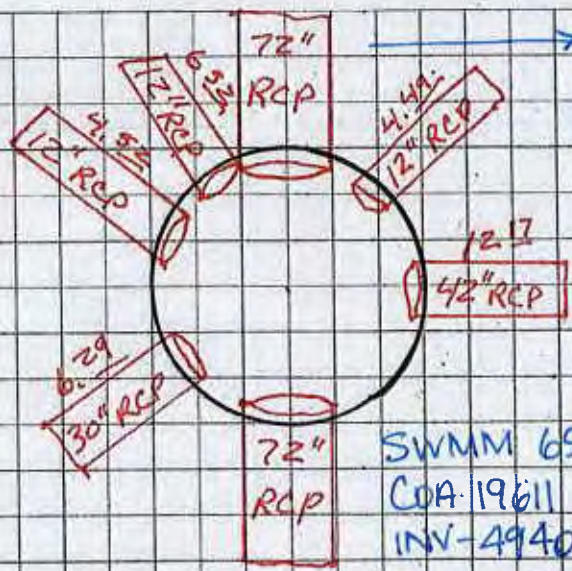
23.3

Manhole # 8 Location 8th + Copper & 2-12-10

Notes South West Intersection

COA MH # 22584

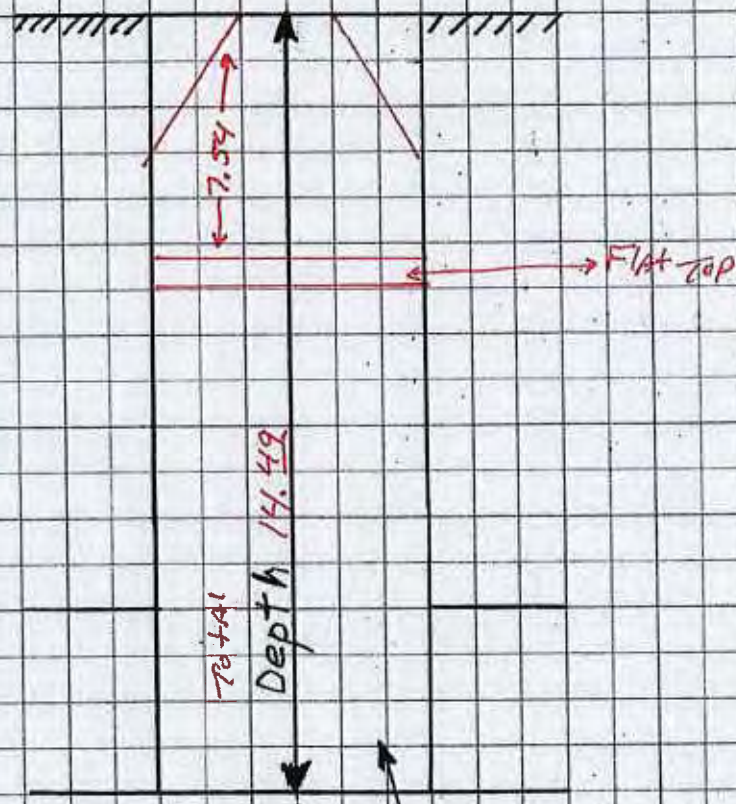
COA 22584
RIM 4954.67
MH INV 4940.18



SWMM 68-490
COA 33690-331 N ↑
INV 4940.18

SWMM 69-560
COA 19611
INV 4940.18

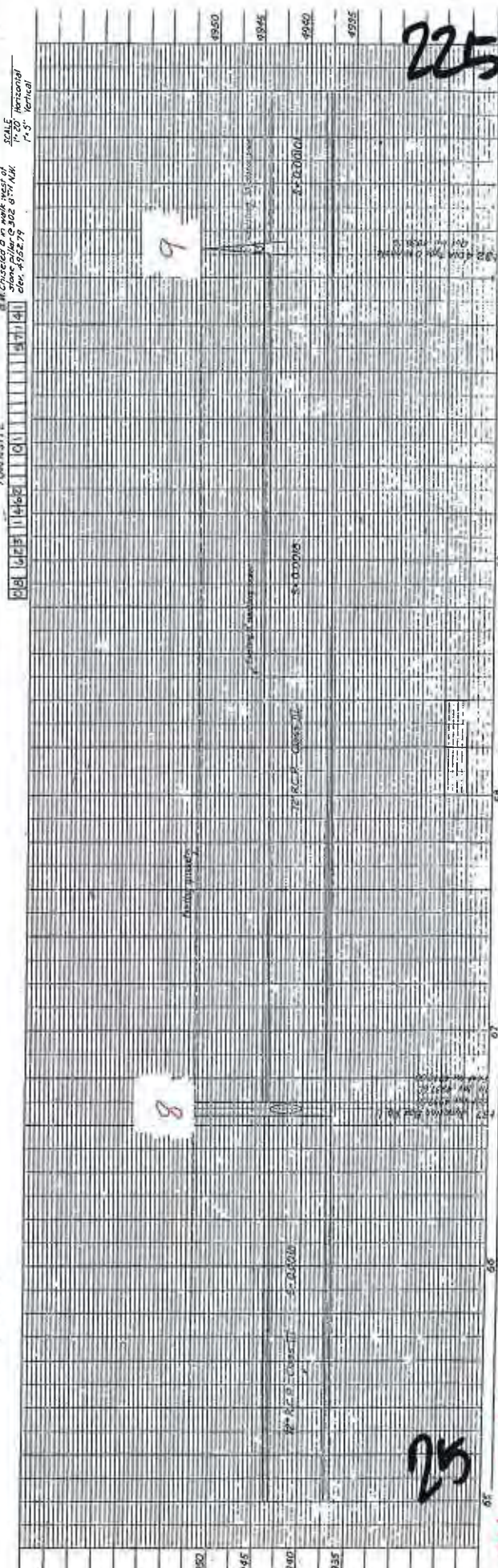
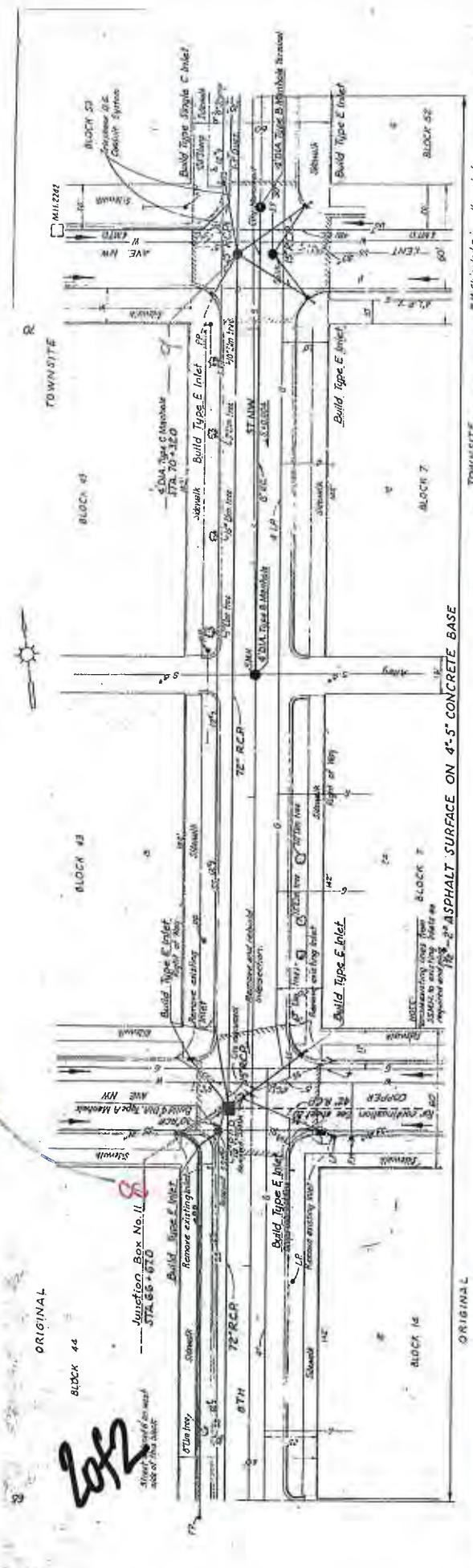
N ↑ Lower section m.H.



1 of 2

24
2" water

22584



22584

25

Manhole # 11263

Location 8th N. of G₂ D.

Date 5-17-11

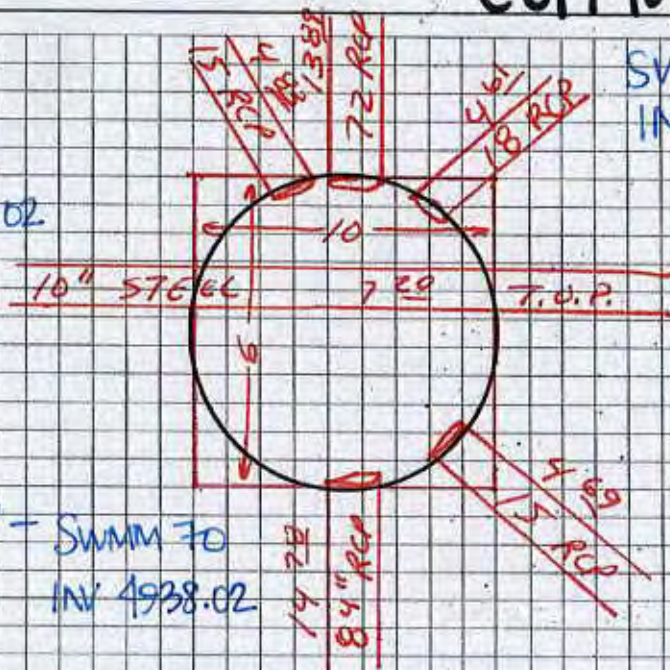
Notes

COA MH # 9260

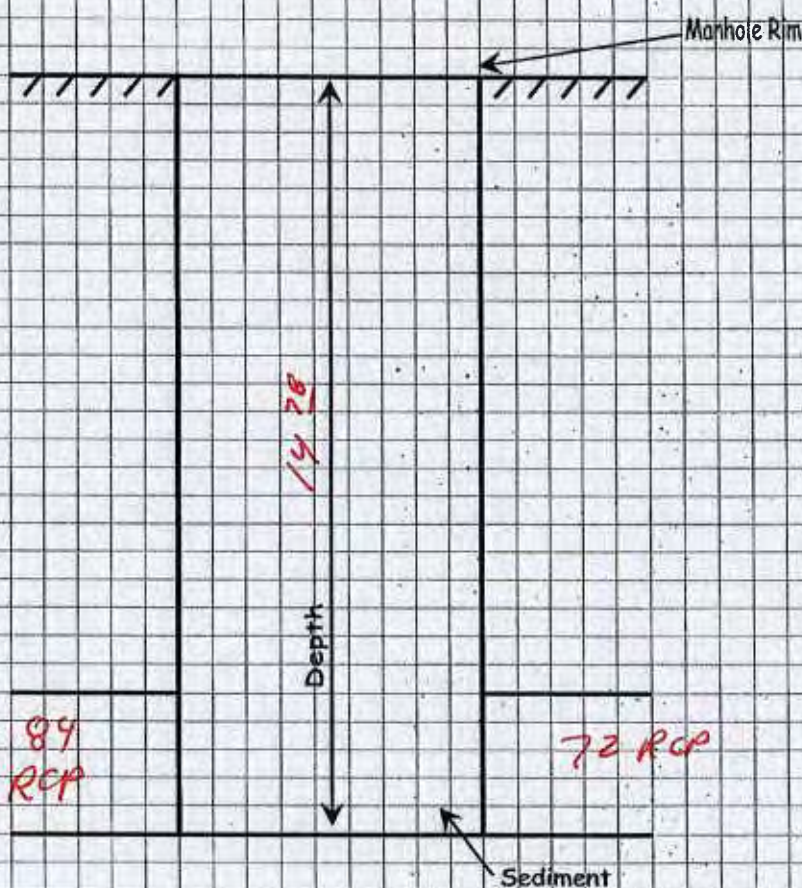
COA 9260
RIM 4952.80
MH INV 4938.02

SWMM 69-560' N 7
INV 4938.91

1622' - SWMM 70
INV 4938.02

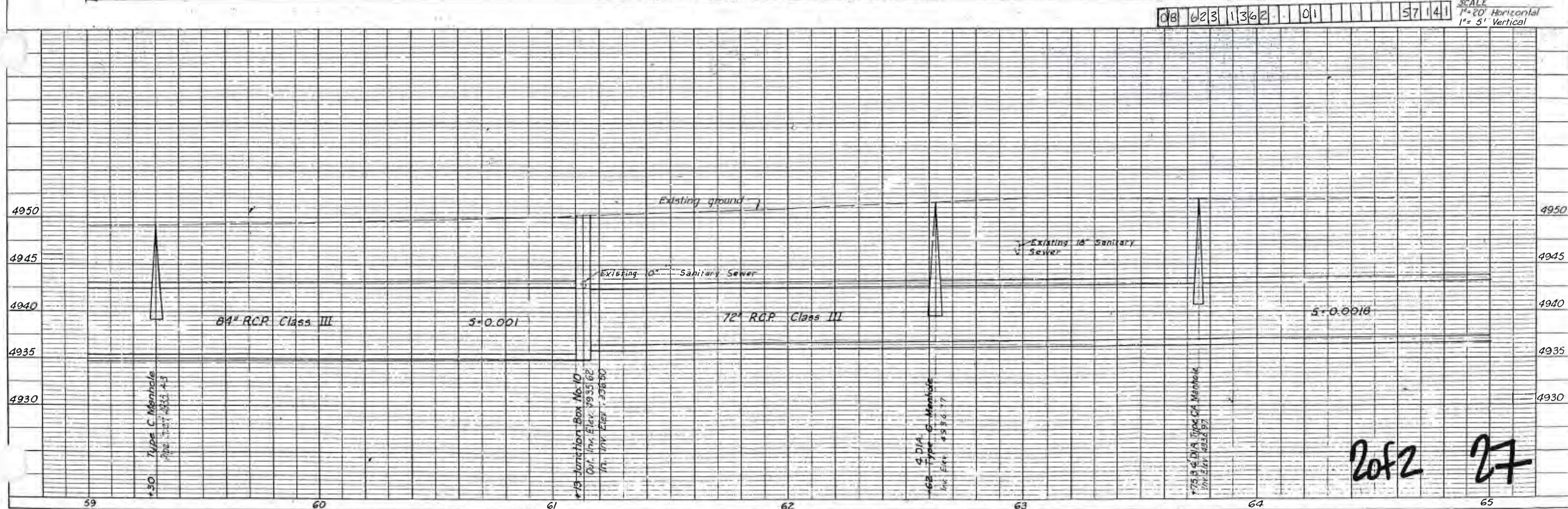
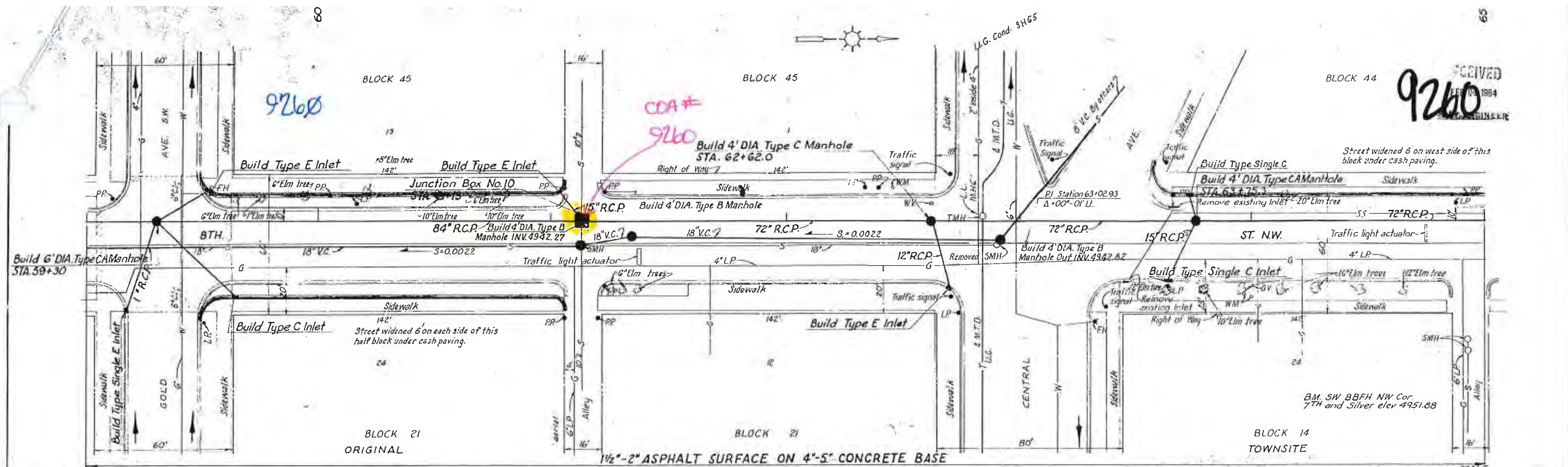


Top
5' 00"
Round
4'



1 of 2

26



Manhole # 2601

Location 8th + IRON

Date 5-17-11

Notes S.W. InterSection

COA MH # 13866

SWMM 70-1622'

INV 4936.11

COA 13866

RIM 4947.44

MH INV 4935.36

SWMM 15-73

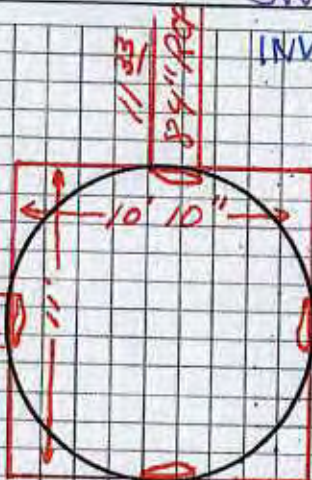
INV 4936.53

72" RCP

72" RCP

SWMM 16-361

INV 4935.81

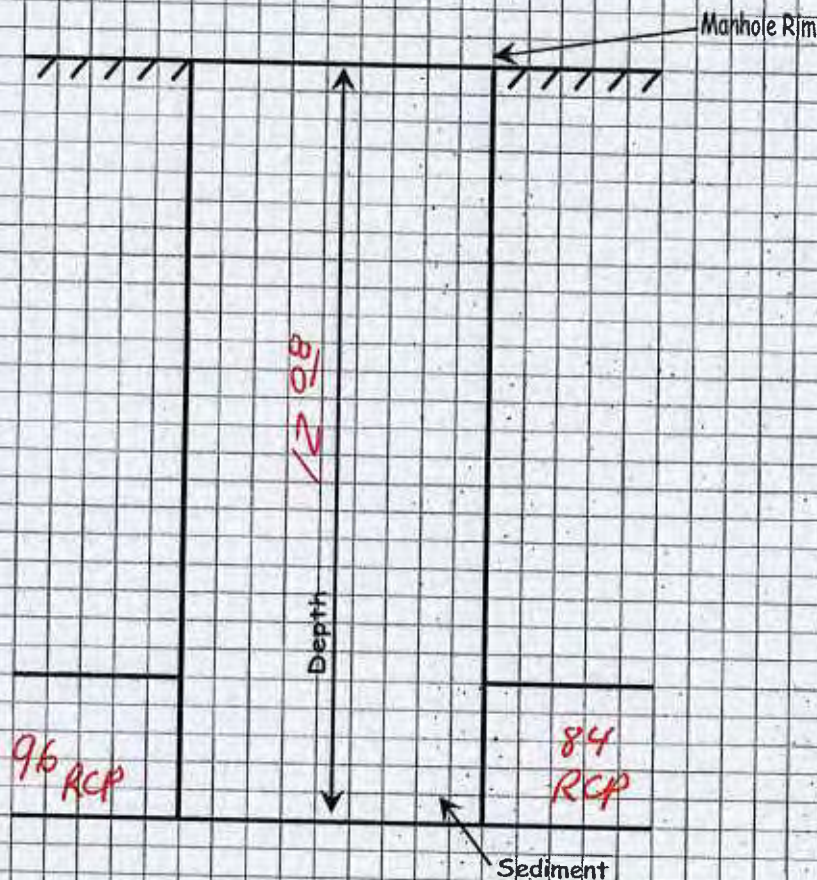


12' 08"
96 RCP

SWMM 71-1026'

INV 4935.36

1 of 2



28

Manhole # 9-A Location Atlantic + 8th

Date 5-24-10

Notes MH in Parking Lot West of 8th St.

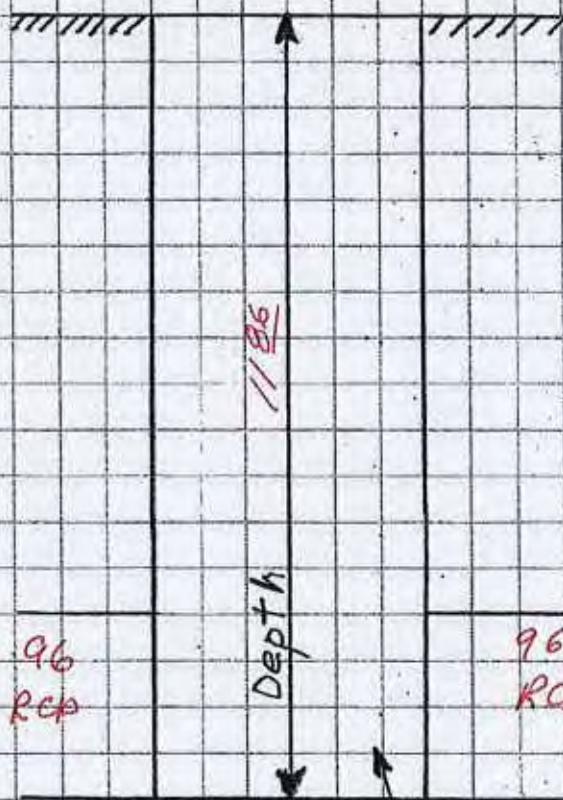
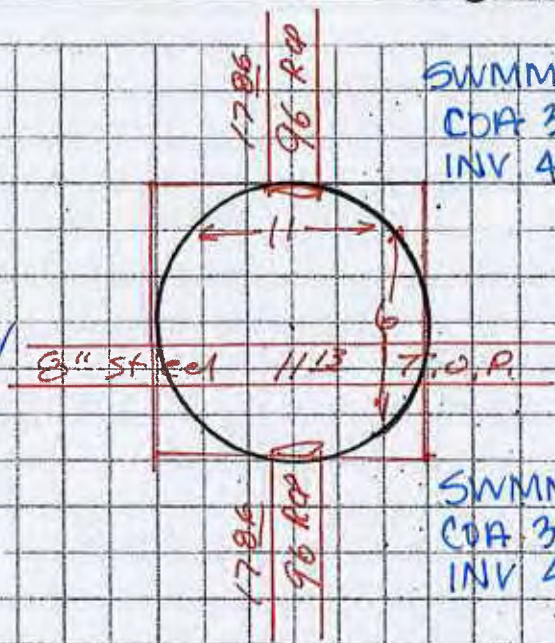
COA MH #32981

COA 32981
RIM 4949.25
MH INV 4931.39

TOLER MH #63
ORIS. LIDAR VERIFICATION

SWMM 71A-149
COA 31730-106'
INV 4931.39

SWMM 72-80'
COA 31726-47'
INV 4931.39



1 of 1

30

Sediment

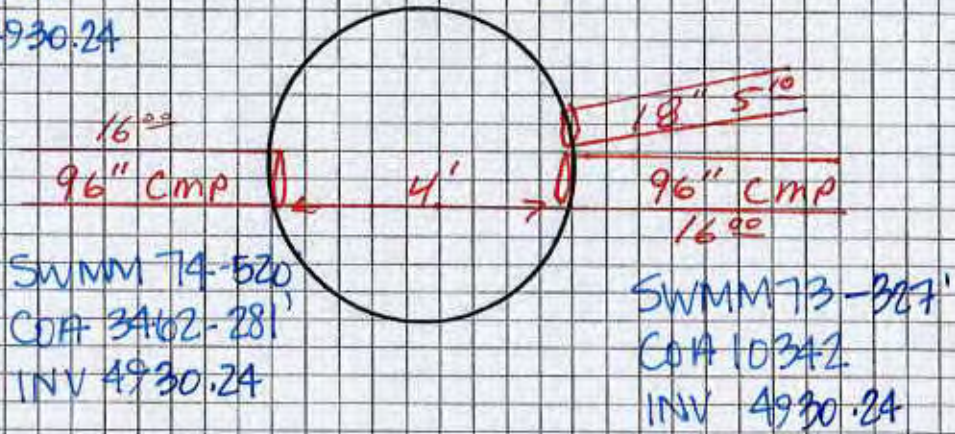
Manhole # 12329 Location BORDO + 9th St. Date 5-16-11

Notes N.E. Intersection

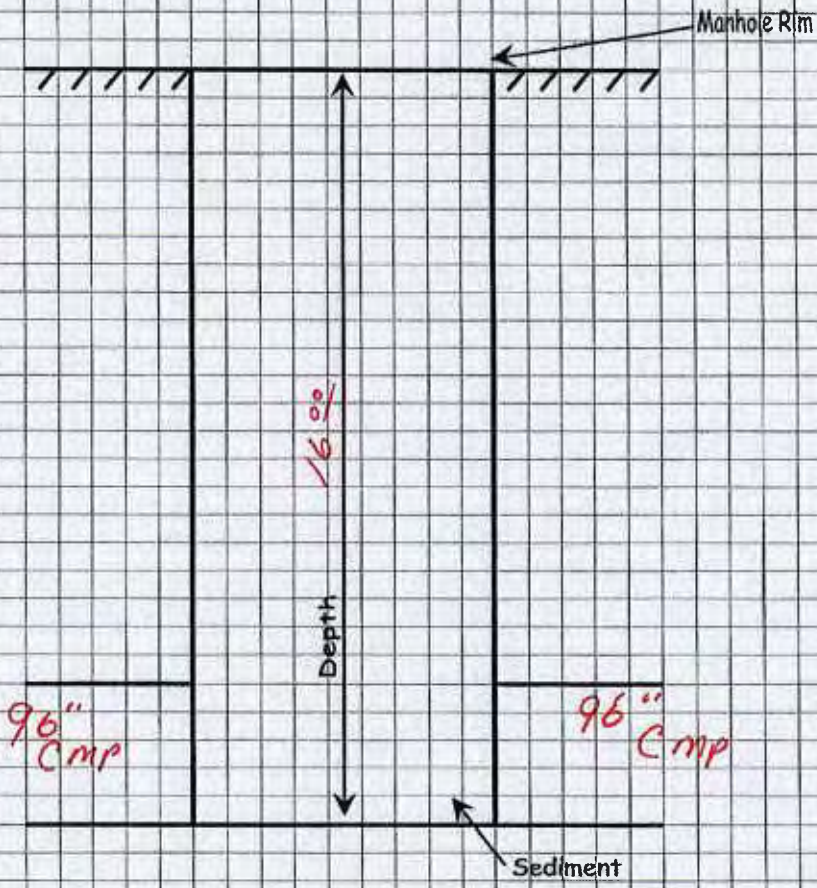
COA MH # 9129

COA 9129
RIM 4946.25
MH INV 4930.24

N ↑

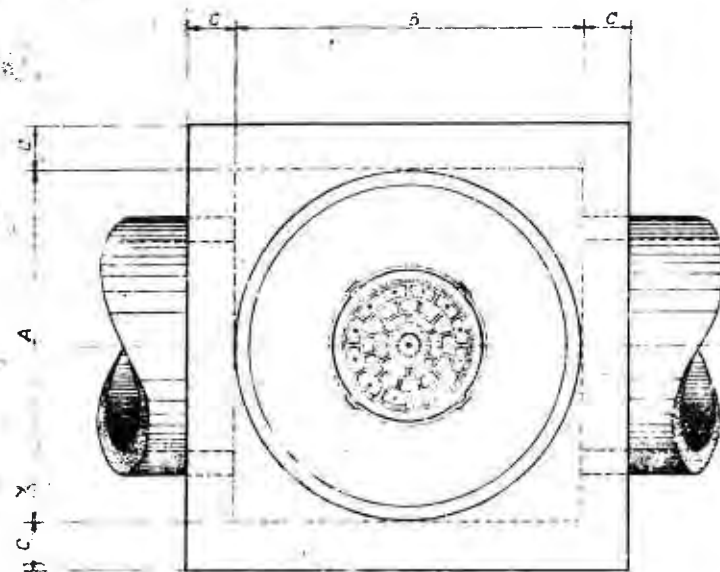


1 of 2

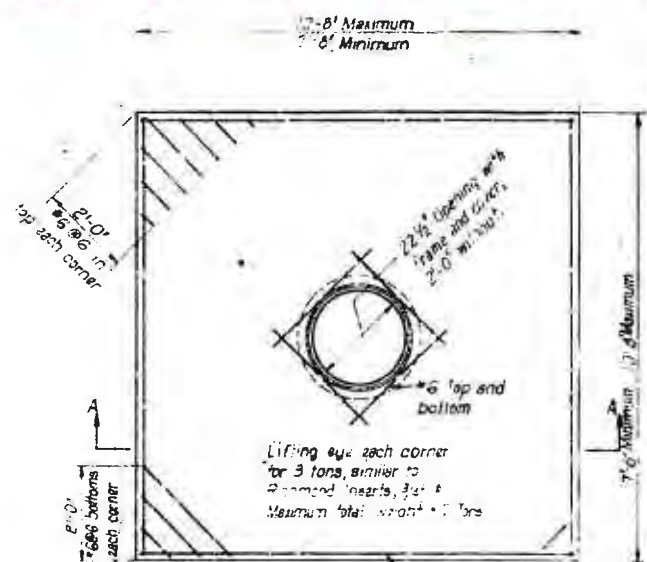


31

EL BORDO SIPHON

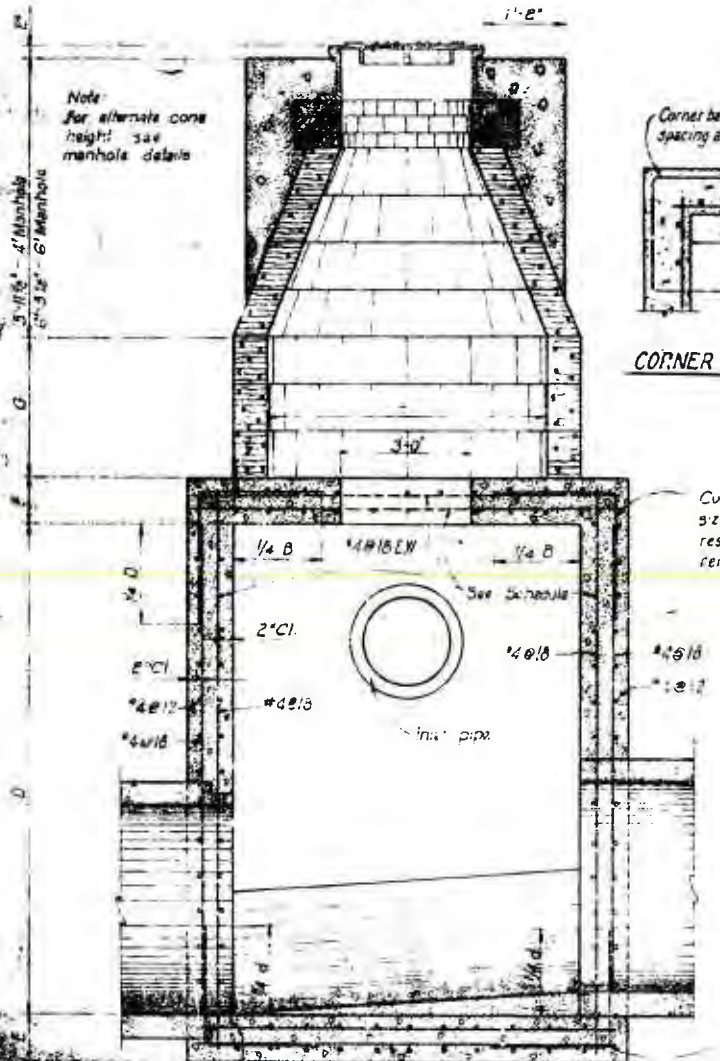


PLAN

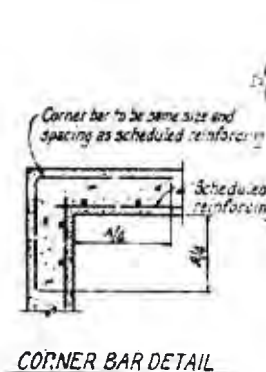


PLAN

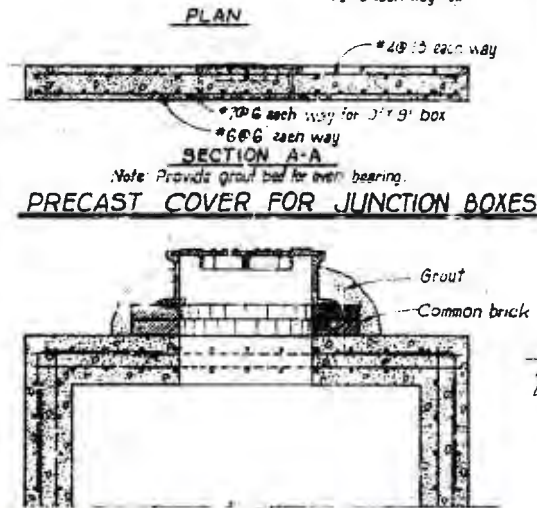
STATION	PIPE IN	PIPE OUT	DIMENSIONS								ELEVATIONS		REINFORCING			ESTIMATED QUANTITIES	
			A	B	C	D	E	F	G	H	Invert	Top Conc.	Roof	Walls	Floor	CU. YDS CONCRETE	POUNDS STEEL
1	0+00.00	0+00.00	8'-6"	8'-6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	4922.38	51.60	#4@12" each way	#4@12" each way	#4@12" each way		
2	0+44.93	66"	9'	9'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	4917.50	52.00	#4@12" each way	#4@12" each way	#4@12" each way		
3	58+50	96"	12'	12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	4914.00	53.00	#4@12" each way	#4@12" each way	#4@12" each way		
4	58+50.93	96"	12'	12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	4914.00	53.00	#4@12" each way	#4@12" each way	#4@12" each way		
5	58+50.93	60"	9'	9'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	4937.25	52.00	#4@12" each way	#4@12" each way	#4@12" each way		
6	208+01.32	126" x 96"	7'	7'	0'-9"	8'-0"	0'-9"	0'-9"	8'-0"	7'-0"	4890.35	50.00	#4@12" each way	#4@12" each way	#4@12" each way		



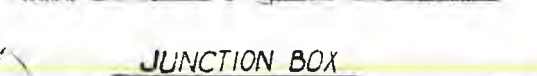
SECTION



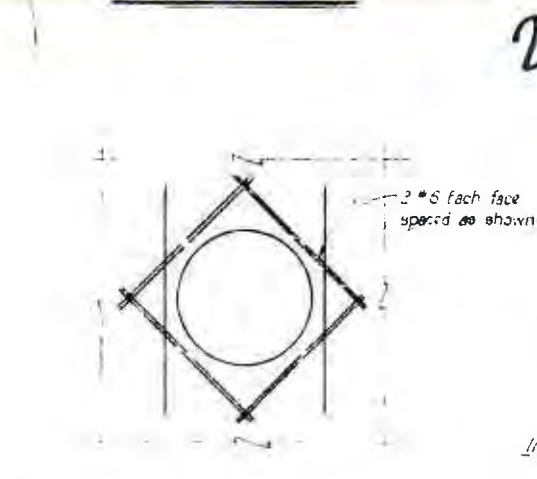
CORNER BAR DETAIL



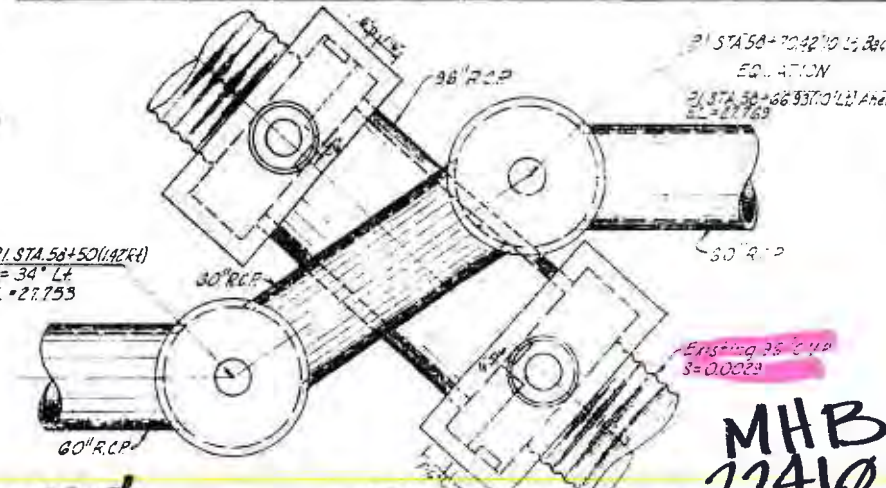
SECTION A-A
PRECAST COVER FOR JUNCTION BOXES



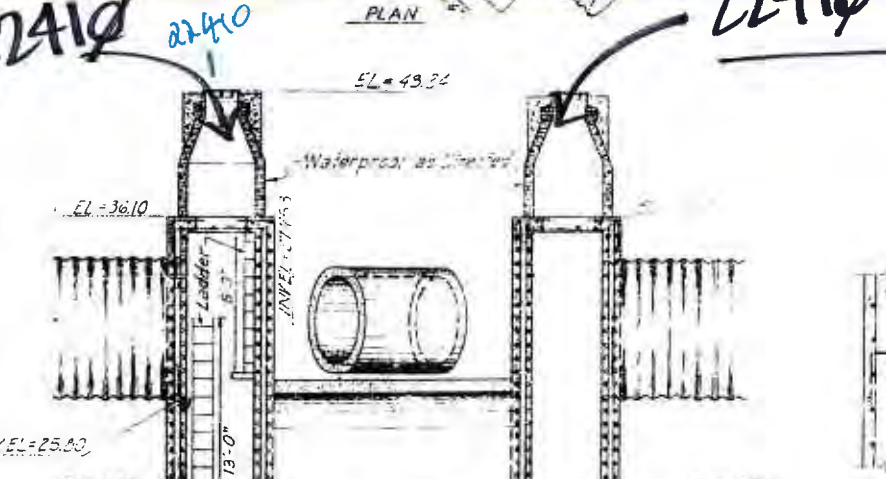
JUNCTION BOX



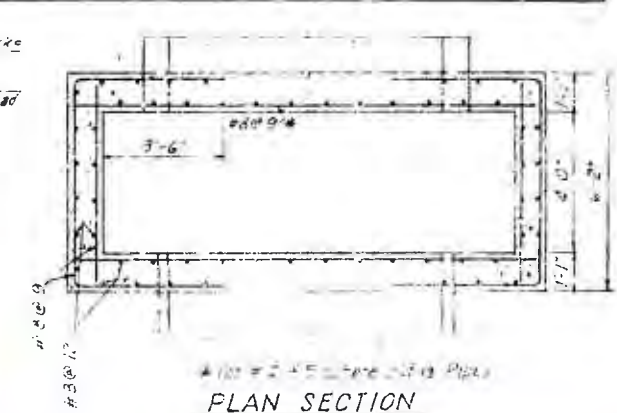
ADDITIONAL REINFORCING AT OPENINGS



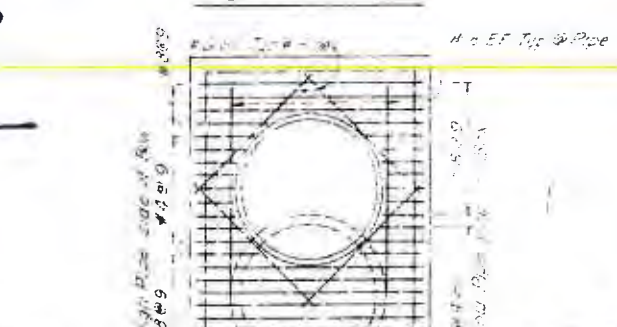
PLAN



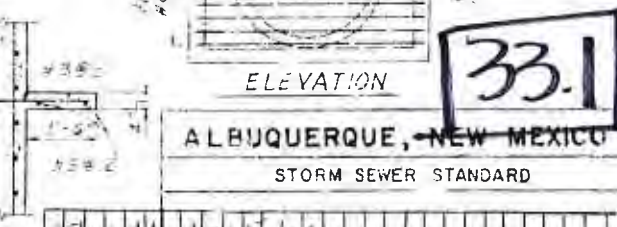
SECTION
JUNCTION BOX NO. 3 and 4



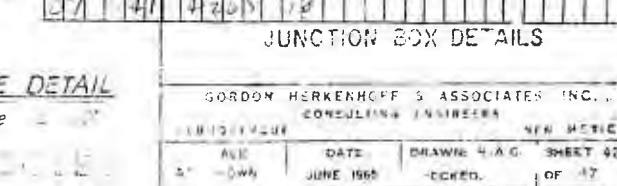
PLAN SECTION



ELEVATION



JUNCTION BOX DETAILS



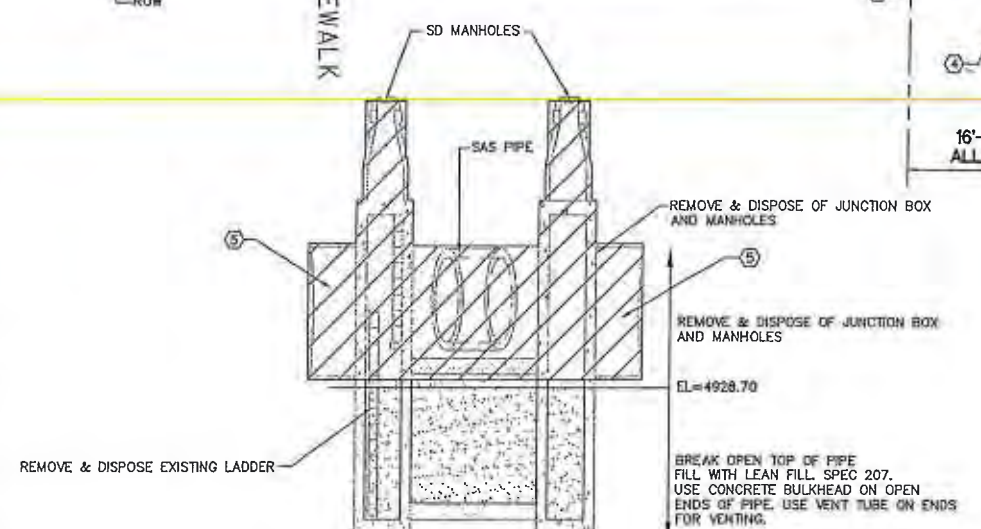
LEDGE DETAIL

Scale: 1/4" = 1'-0"

ALBUQUERQUE, NEW MEXICO
STORM SEWER STANDARD

GORDON HERKENHOFF & ASSOCIATES, INC.
CONSULTING ENGINEERS
DATE: JUNE 1965
DRAWN: H.A.G.
SHEET 02
OF 17

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POTHOLE LOG				 (IN FEET) 1 inch = 10 ft.				
MARKER 1 LOCATION	WATER METER							
MARKER 2 LOCATION	CENTER OF MANHOLE COVER							
MARKER 3 LOCATION	CENTER OF MANHOLE COVER							
POTHOLE #	TYPE	MATERIAL	DIA.	TO TOP	MARKER 1	MARKER 2	MARKER 3	DEPTH
1	WATER	METALLIC	8"	39"	15.04'	52.08'	20.03'	5" ASPHALT
2	WATER	METALLIC	8"	39"	43.03'	16.07'	58.07'	5" ASPHALT
3	S&S	CLAY TILE	8"	16"	47.07'	11.04'	75.03'	5" ASPHALT
4	STORM	CONCRETE	24"	105"	85.02'	20.06'	54.02'	5" ASPHALT
5	STORM	CONCRETE	24"	112"	35.06'	10.06'	45.08'	5" ASPHALT

 DEMOLITION AREAS

 WALLS TO BE REMOVED

- 1 CONTRACTOR SHALL PROVIDE ACCESS FOR RESIDENTS
- 2 CAUTION MUST BE TAKEN TO NOT DISTURB OVERHEAD
POWER LINES. CONTRACTOR TO COORDINATE WITH PNM.
- 3 CONTRACTOR SHALL MAINTAIN ALL SERVICES TO HOUSES
THROUGHOUT CONSTRUCTION.
- 4 CONTRACTOR TO WORK WITHIN IDENTIFIED AREA PER NOTE
22. ANY WORK OUTSIDE OF AREA WILL BE RESPONSIBILITY OF
CONTRACTOR TO OBTAIN PERMISSION FROM PROPERTY
OWNERS.
- 5 CURB AND GUTTER TO REMAIN UNDISTURBED DURING
CONSTRUCTION. ANY DAMAGE DONE WILL BE RESPONSIBILITY
OF CONTRACTOR.

- 1 SAWCUT NEAT LINE, REMOVE, DISPOSE, & REPLACE EXISTING ASPHALT
- 2 PROTECT EXISTING WATER SERVICE DURING CONSTRUCTION
- 3 REMOVE & DISPOSE OF EXISTING CONCRETE STRUCTURE JUNCTION BOX AND SD MANHOLES PER DETAIL THIS SHEET
- 4 PROTECT EXISTING POWER POLE
- 5 REMOVE & DISPOSE OF EXISTING STORM DRAIN PIPE
- 6 EXISTING QWEST AND COMCAST OVERHEAD LINES TO BE TEMPORARILY RELOCATED DURING CONSTRUCTION BY UTILITY COMPANY. COORDINATED BY CONTRACTOR.
- 7 NOT USED
- 8 EXISTING 96" CMP BITUMINOUS COATED STORM DRAIN.
- 9 REMOVE AND REPLACE EXISTING WALL AS NEEDED.
- 10 REMOVE & DISPOSE EXISTING SAS MANHOLES (K13 883, K13 884, K13 885)
- 11 REMOVE & DISPOSE OF EXISTING 60" SAS PIPE
- 12 EXISTING 60" SAS RCP
- 13 REMOVE & DISPOSE, EXISTING CONCRETE DRIVEPAD TO NEAREST JOINT.
- 14 EXISTING 8" VITRIFIED CLAY SAS PIPE.
- 15 EXISTING 8" METALLIC WATER PIPE.
- 16 PROTECT EXISTING DUCTILE IRON GATE.
- 17 EXISTING 24" CPN 08-521-52 STORM DRAIN
- 18 REMOVE & DISPOSE OF EXISTING 24" RCP
- 19 CUT, REMOVE & DISPOSE OF EXISTING CMP BITUMINOUS COATED PIPE.
- 20 REMOVE & REPLACE ASPHALT TO EDGE OF EXISTING ASPHALT AT ALLEY.
- 21 EXISTING OVERHEAD POWER LINE TO REMAIN
- 22 WORK AREA FOR CONTRACTOR SHALL BE WITHIN THE CITY OF ALBUQUERQUE ROW. ANY WORK OUTSIDE OF ROW SHALL BE SECURED BY CONTRACTOR IN WRITING AT THEIR EXPENSE.
- 23 CUT AND CAP 8" WATERLINE DURING CONSTRUCTION. TO BE REINSTALLED AT END OF CONSTRUCTION IN PERMANENT LOCATION. REMOVE AND REINSTALL SERVICE. PROVIDE TEMPORARY SERVICE DURING CONSTRUCTION.

[illegible]

		4930 LANG AVENUE NE ALBUQUERQUE, NEW MEXICO 87106 (505) 348-4000 FAX (505) 348-4072		NO. DA DESIGNED BY DRAWN BY	
		CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION			
TITLE:		10TH STREET & EL BORDO DRIVE SW DEMOLITION PLAN			
Design Review Committee		City Engineer Approval		Mr. City En. Mr. City En.	
				Last Design Update	
City Project No.		Zone Map No.		Sheet	
7963.92		K-13		3 of 9	

33.2



PROJECT EL BORDO SIPHON 22410/A
SUBJECT ESUMM 74 : CURTINS SIPHON

SHEET NO. _____ OF _____

BY _____

DATE 1 / 1

CHECKED BY _____

PROJECT NO. _____

DATE 1 / 1

CURTIN

CHRS

$\phi = 8'$

$L = 19$

$n = 0.024$

$E_{nt} = 0.5$

$E_x = 0.45$

$\phi = 6'$

$L = 19$

$n = 0.024$

$E_{nt} = 0.5$

$E_x = 0.25$

22410

Contractor # 141

Invert = 4920.44

Max. Depth = 25.35.

P.A. = 45178.

2410

Contractor # 141
Invert = 4928.49

Depth = 17.3

P.A. Same

MHB 22410

4920.5

25.35.

90355

Use 7.7 offset.

MHB 22410

4928.54

17.31

same

Use 7.7 offset

Main difference was the

MH max depth.

We should have kept the
original one. See note on
its back.

Change Cur 22410
Max Depth to 25.8

Rise Elev. = 4945.79

Max Depth = 25.8

Invert = 4919.99

MHB 22410

Max Depth 25.8

Invert =

4920.12.

Rise = 4945.92.

Smith Engineering Company

2201 San Pedro NE Bldg. #4, Suite 200 Albuquerque, New Mexico 87110 505/884-0700 Fax 505/884-2376

22410

Manhole # 12111

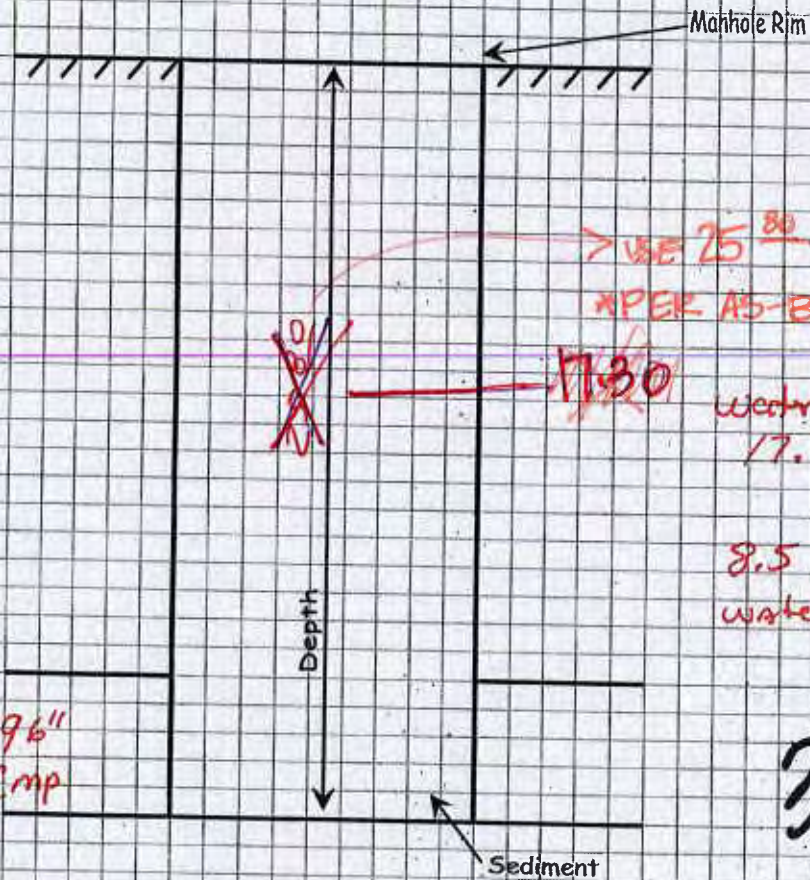
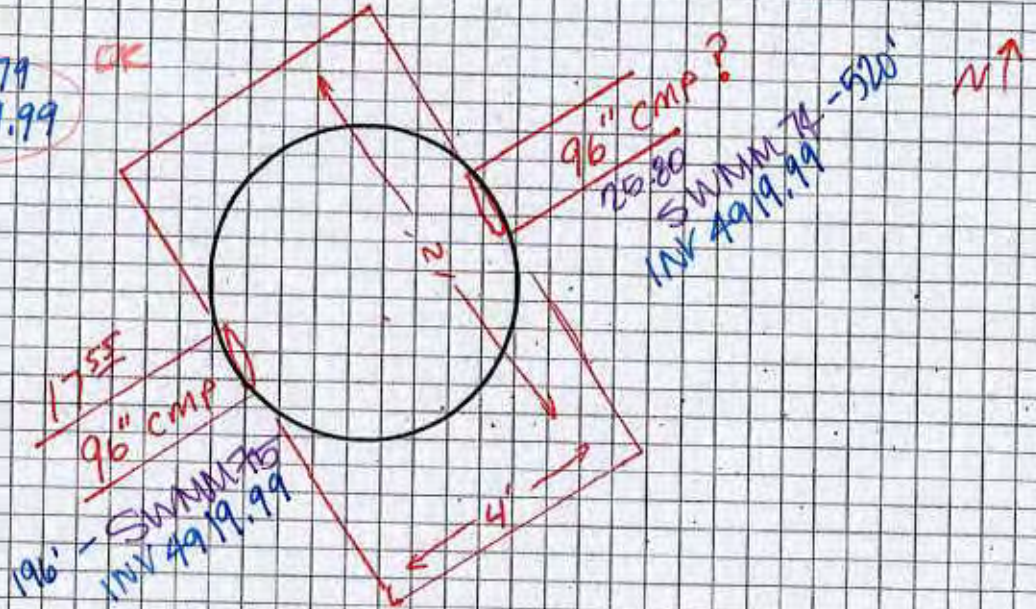
Location 1007 10th ST.

Date 5-16-11

Notes

COA MH # 22410

COA 22410
R.M 4945.79
MH INV 4919.99



1 of 2

33

Manhole # 12110

Location 1012 Pacific Ave.

Date 5-16-11

Notes

COA MH # 9141

COA 9141

RIM 4946.09

MH INV 4928.21

ERROR →

72" CMP

8"

96" =

96"

60" =

60" RCP

~~SWMM 75 = 196~~
~~INV 4928.21~~

~~SWMM 76 = 28.21~~
~~96" =~~

SWMM 82 =
60" 28.21

Manhole Rim

178"

Depth

96" =

72" CMP

96" =

60" RCP

Sediment

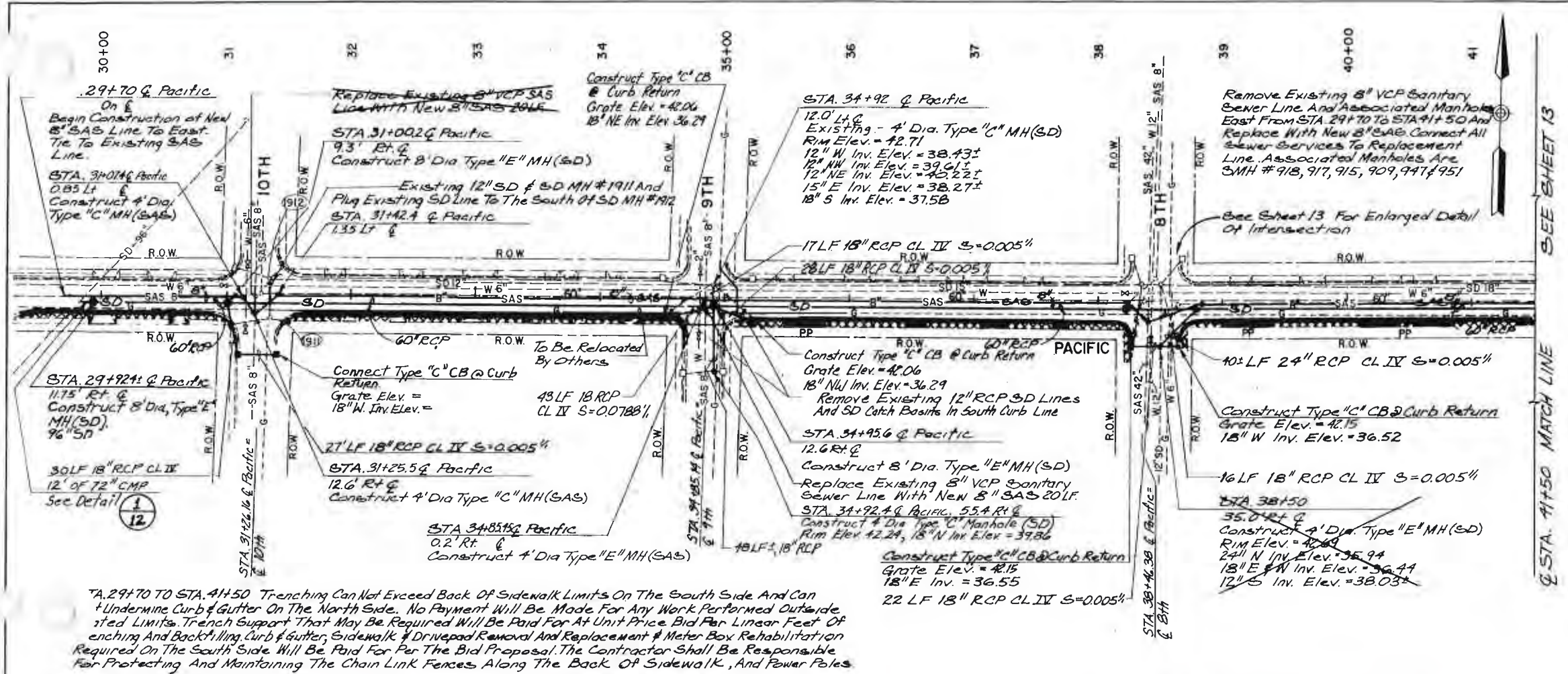
1 of 2

35

197

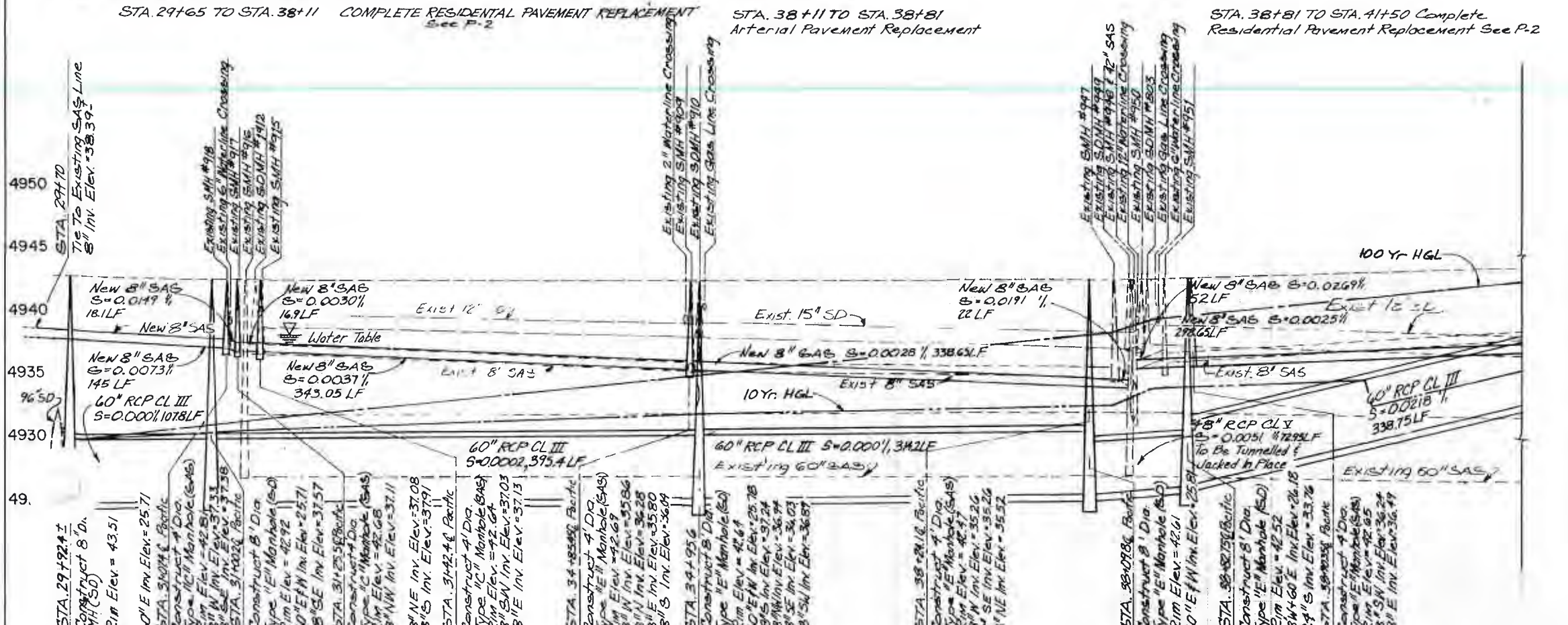
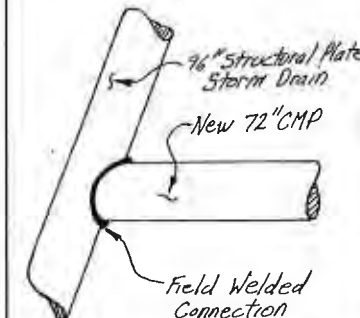
9141 - 282087

9141



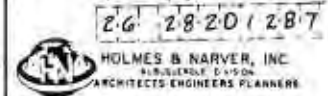
GENERAL NOTES

1. TUNNELLING AND JACKING BETWEEN STAS. 38 + 24.5 AND 38 + 54.5 SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 820 OF THE INTERIM STANDARD SPECIFICATIONS, PROCEDURES OUTLINED IN CHAPTER 5, CONCRETE PIPE HANDBOOK PREPARED BY THE AMERICAN CONCRETE PIPE ASSOCIATION AND THE PIPE MANUFACTURER'S RECOMMENDATIONS. MEASUREMENT AND PAYMENT SHALL BE LUMP SUM AND SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, AND WORK INVOLVED TO EXCAVATE THE JACKING PIT, FURNISH AND INSTALL JACKING ABUTMENTS, JACKS, JACKING FRAME AND GLIDE RAILS, TUNNELLING AND GROUTING ALL VOIDS.



2 of 2
RECORD PRINT
David G. Lamm 10-5-87

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT					
TITLE: FOURTH ST. REHABILITATION PACIFIC AVENUE STORM DRAINAGE STAS. 29+65 TO 41+50					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		8/7/86	Liquid Waste	N/A	8/7/86
ACE - Design		8/7/86	Traffic	N/A	8/7/86