OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY, MINN.

PLAN Survey

10TH ST. N.W

From I 694 To 3RD AVE N.W.

Road Acc't. No. 12 8 45

Dn 12

Date Filed 1-21-82 File Bk. 37

ML
LPD
MR
RC

SEPT 8, 78

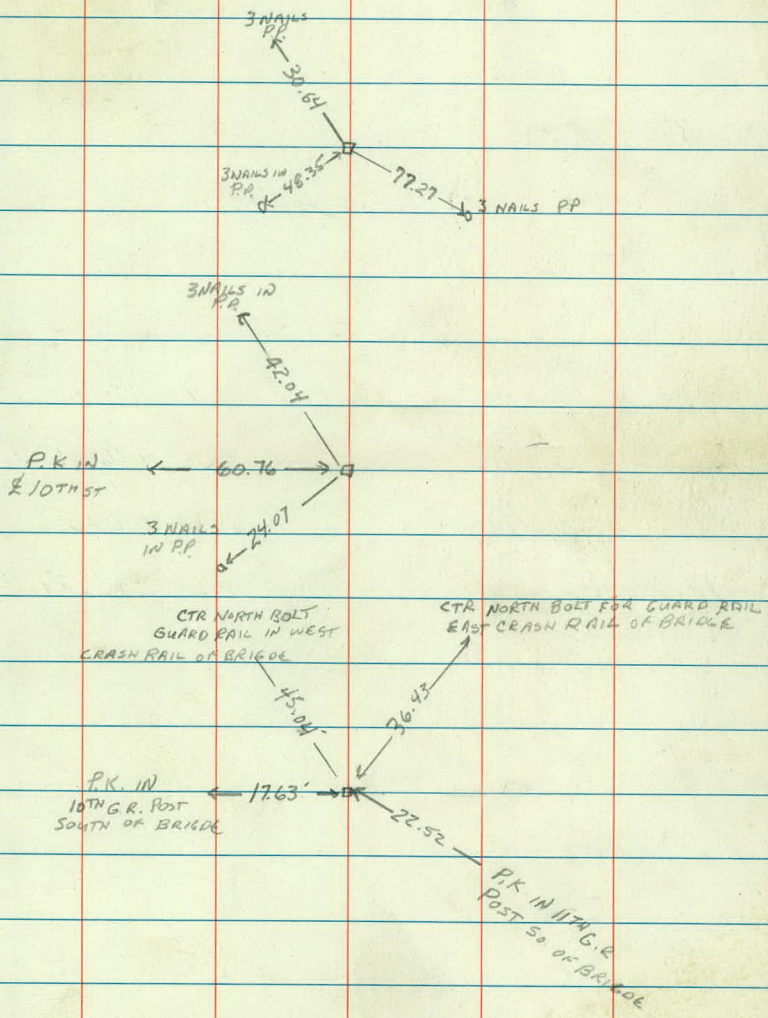
SUNNY 82° 1

ALINEMENT OF

10TH ST N.W.

STA 0+00 TO 31+00

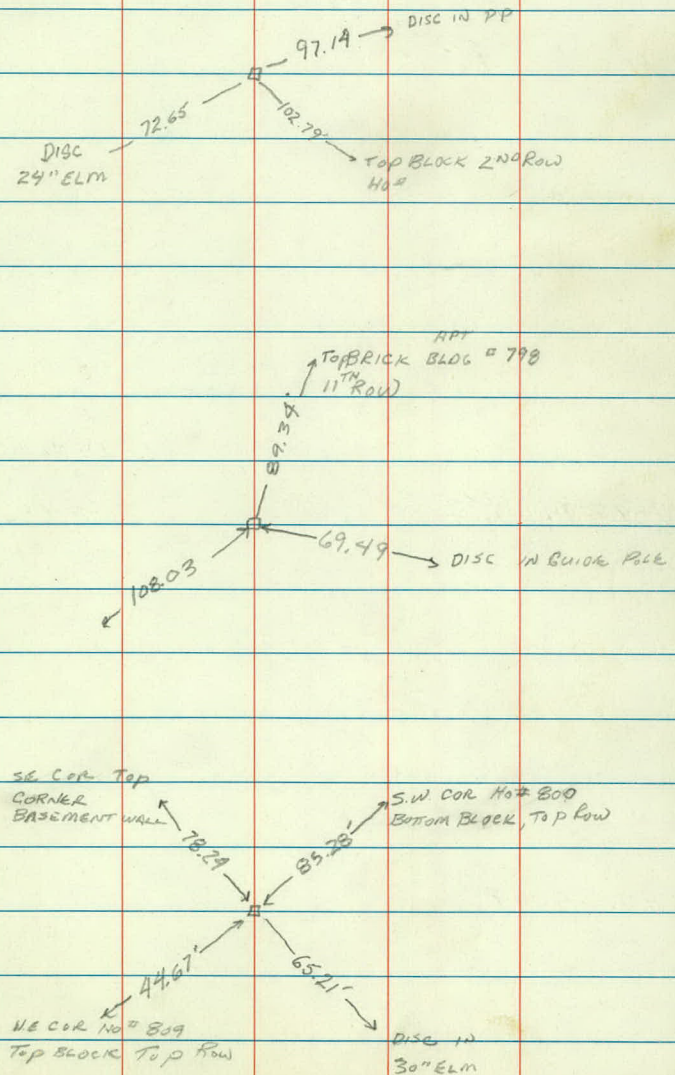
STA	PT	AL	AR	CURVE DATA
4+68.85	PT		0°00'	
4+50			1°24'50"	✓
4+00			5°09'50	✓
3+50			8°54.50'	✓ Δ 55°43'30
3+00			12°39'50"	✓ D=15°
2+99.28	PI			T=201.93
2+50			16°24'50"	✓ L 371.5
2+00			20°09'50"	✓ R= 381.97
1+50			23°54 50	✓
1+00			27°39'50"	✓
0+97.35	P.C		27°51'46"	


3 NAILS P.P.
30.64
3 NAILS IN P.P.
48.35
77.27
3 NAILS PP
3 NAILS IN P.P.
42.04
P.K IN ℄ 10TH ST
60.76
3 NAILS IN P.P.
24.07
CTR NORTH BOLT GUARD RAIL IN WEST CRASH RAIL OF BRIDGE
CTR NORTH BOLT FOR GUARD RAIL EAST CRASH RAIL OF BRIDGE
45.04'
76.43
P.K. IN 10TH G.R. POST SOUTH OF BRIDGE
17.63'
22.52
P.K IN 11TH G.R POST SO OF BRIDGE

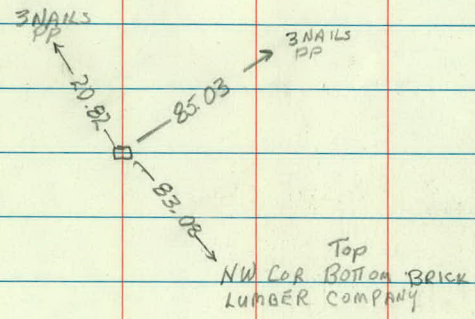
STA	POINT	ALT	ΔPT	CURVE DATA
13+19.43	P.T.			
				Δ = 35° 11' 05"
				R = 476.71
				T = 151.15
11+77.84	P.I.			L = 292.74
10+26.69	P.C.			

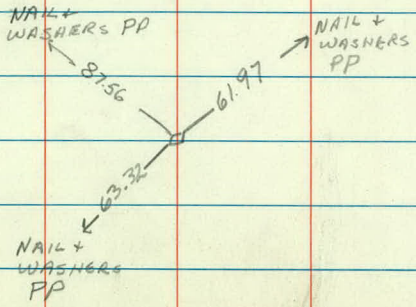
ML
LPD
MR
RC

SEPT 8, 78
SUNNY 80°



	POINT	ALT	Δ RT	CURVE DATA
19+74.21	P.T			
				Δ=42°55'21"
17+47.74	PI			R=636.15
				T=250.09
				L=476.56
1497.65	P.C.			


3 NAILS PP
20.82
85.03
3 NAILS PP
83.08
Top
NW COR BOTTOM BRICK
LUMBER COMPANY


NAIL + WASHERS PP
87.56
61.97
NAIL + WASHERS PP
63.32
NAIL + WASHERS PP

M.L.
M.R
J.T.

AUG 30, 78

Sunny 75° 1

BENCH MARKS

10TH ST N.W.

T.H. # 694 TO 5TH AVE

STA	+	Π	−	ELEV
BM1	3.33	897.84		894.51
T.P.2	0.95	890.12	8.67	889.17
BM3	3.62	889.58	4.16	885.96
BM4	3.75	891.01	2.32	887.26
BM5			4.39	886.62
T.P.6	4.46	891.27	4.20	886.81
BM7	4.15	892.72	2.70	888.57
BM8			2.73	889.99
BM9	4.37	891.55	5.54	887.18
BM10	1.39	888.73	4.21	887.34
BM11	3.08	888.59	3.22	885.51
BM12	4.79	888.34	5.04	883.55
BM11	2.89	888.40	2.83	885.51
BM10	4.37	891.72	1.05	887.35
BM9	4.16	891.34	4.54	887.18
BM7	2.65	891.23	2.76	888.58
BM6	3.97	890.80	4.40	886.83
BM4	2.28	889.55	3.53	887.27
BM3	4.59	890.56	3.58	885.97

M.L.
M.R.
J.T.

AUG 30, 78
SUNNY 75°

9/2/88 BJ

→ VOID — SEE LLRD. 1988 Const.²

DISC S.E. COR. BRIDGE #9389

1ST BOLT ON S.E. TWISTED END GUARD RAIL

Top H40 NE COR 5TH AVE & 10ST N.W

Top H40 22+46 LT 23'

N.E. COR BOTTOM STEP N.B. LUMBER Co

P.K. NAIL @ 19+00

Top H40 N.E. COR 7TH AVE + 10TH ST N.W

NE COR BOTTOM STEP Ho #715

SPIKE IN P.P. 12+37 LT 32'

SPIKE IN P.P. 9+51 RT 25'

Top H40 6+03 RT 22'

SPIKE IN PP 4+41 LT 27'

STA	+	⊼	−	ELEV	
		890.56			
T.P.2	8.48	897.65	1.39	889.17	
BM1			3.14	894.51	894.51
	7.74	891.29	[illegible]	883.55	
			1.25	890.04	

ML
DS
BW
MR

APR 7, 80

GAS MAIN ELEVATIONS (TOP)
10TH ST

	+	⊼	−	ELEV	
BM	4.89	892.07		887.18	
			7.75	884.32	
B.M.	3.15	888.66		885.51	
			7.71	880.95	
			8.24	880.42	
			9.19	879.47	
			5.14	883.52	883.55
			8.18	880.48	
B.M.	7.66	894.84		887.18	
			10.00	884.84	
			10.78	884.06	
BM	2.76	891.33		888.57	
			9.44	881.89	
			9.21	882.12	

DESCRIPTION

SPIKE IN PP 12+37 LT

12" TO SOUTH ON 8TH AVE

TOP HYD 6+03 RT

7+75

5+80

4+40

SPIKE P.P. 4+41 LT

BELL TELE 4+40

SPIKE IN PP 12+37 LT

12" 58' RT ON 8TH AVE

13+80

TOP HYD SE COR 7TH AVE + 10TH ST

18+05

18+40

Sta.	+	π	−	Elev	
B.M.	2.37	889.63			887.26
			7.30	882.33	
			7.20	882.43	
B.M.	0.20	886.16			885.96
					8"
			10.04	876.12	
					4"
			9.96	876.20	
Bm	2.75	888.71			885.96
			7.69	881.02	
			10.20	878.51	

K.P.
J.A.
B.W.

Description

Top Hyd 22+46 Rt 23

Top Gas Main S.W. Cor 6th & 10th St N.W.

Top Hyd 5th Ave & 10th St N.W.

TOP GAS MAIN RT STA FRONT Ho# 339

(27+20)

Top Hyd 5TH AVE + 10TH ST

24+30

29+85

M.L.
MR
JT

AUG 30, 78
SUNNY 75°

3

SPIKE IN PP 4+41 LT

SPIKE IN PP 2+45 RT 40'

M.L
R.C
MR

SEPT 13, 78
Cloudy 63°

1

TOPOGRAPHY

10TH ST N.W

0+00 - 31+00

LT RT

1+00

RD 16 RD 15

+96 C.B 14

+96 C.B 14

+60 PP 14

+59 END WINGWALL 25

+77 END WINGWALL 28

+58 END BRIDGE 15

+58 BEG C.R. 16

+65 BEG CURB BG24 16

+65 BEG C.R. 21

+65 END BRIDGE 16

+58 BEG CURB (BG24) 15

+50

+48 SURGE BASIN 66

+00 C.R 21

+00 SW 16-21

RD 16

RD 15

+00 S.W 15-16

+00 C.R 16

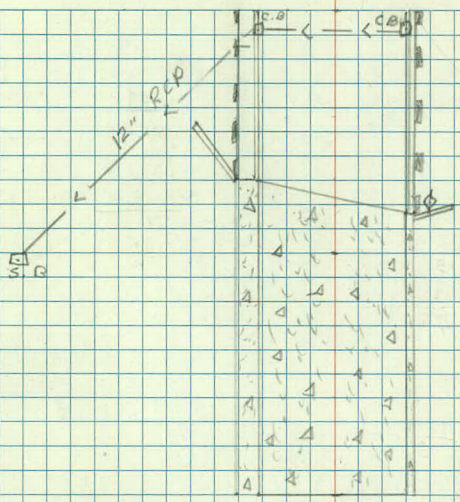
0+00

ML
RC
MR

SEPT 12, 78
Cloudy 62°

℄

R



Lt

Rt

3+50

+51 FEN 29

RO 17 RO

+50 END 50 EDGE RO 33

+30 SO. EDGE RO 40

+06 BEG BUSH 57

3+00

+00 FEN 32

+00 SO EDGE RO 50

+93 END 12" RCP 47

+79 PP 75

+91 ER 18

+73 M.H. 58

+57 BEG FEN 35

+63 BR 15

+63 S.D. 32

+63 ER 45

+50

+30 ER MED 14

+46 PP 40

+21 END CURB

+21 BR 109

+15 POR MED 36

+18 PP 31

+18 RAN. TIL ROAD 96

+10 POR 71

+02 BR MED 47

+13 ER 18

+13 BEG FENCE 35

2+00

RO RO

+91 BEG MED 15

+86 POR 28

+75 END FENCE 120

+75 ER 45

+66 END G.R. 35

+70 BR 65

+70 END CURB (96) 65

+50 G.R. 23

+50 POR 19

+50

+46 POR 50

+45 END G.R. 50

+34 ER 90

+32 G.R. 18

+32 BR 16

+32 LITE BLK 19

+08 BR 15

+08 G.R. 18

1+00

+00 G.R. 20

RO 16

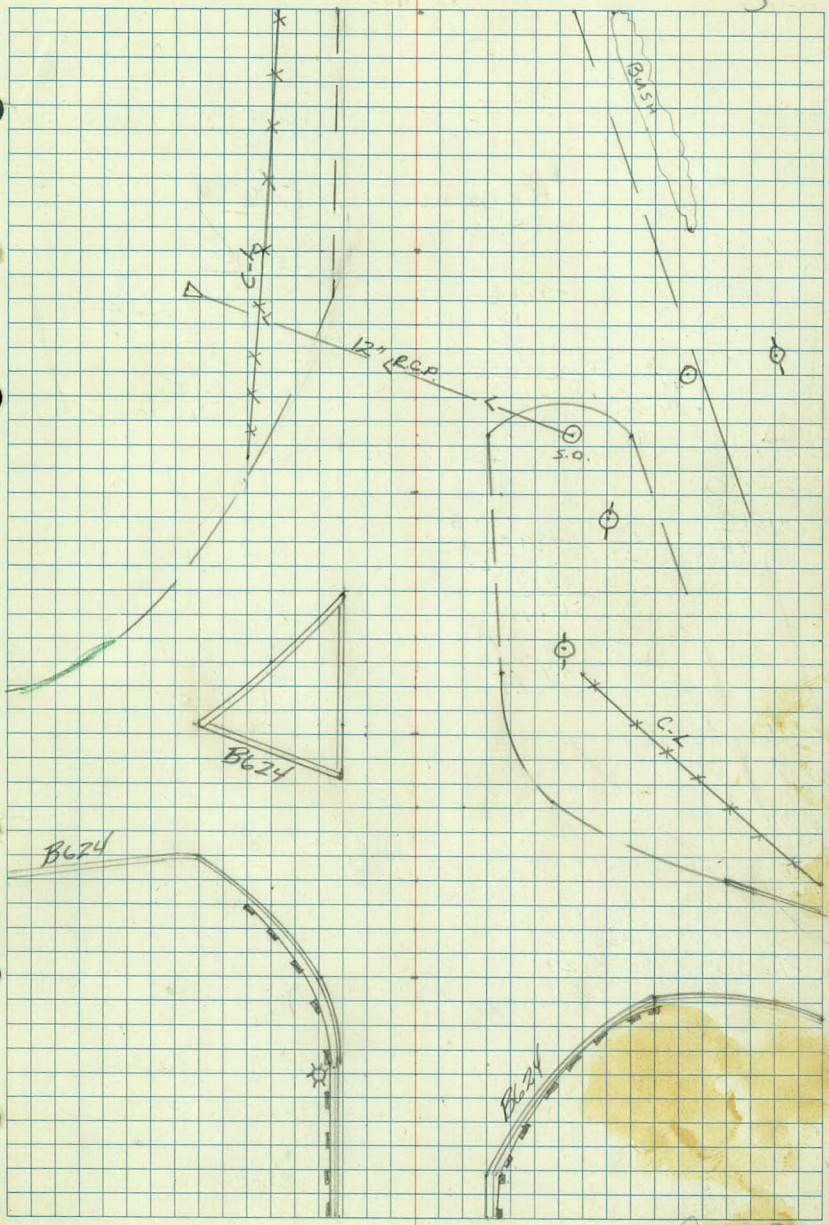
RO 15

+00 G.R. 19

ML
RC
MR

SEPT 12, 78
CLOUDY 62°

3



LT ℄ RT

6+00

RO 13 RO 13

+95 END WOODS 30-51

+95 PP 28

+82 COR FEN 51

+83 8" PINE 48

+69 15" CMP 25

+73 NW CORND 59

+63 BEG WOODS ← 33

+57 ℄ 10' DR DIRT

+64 RGT WALL STONE 32 →

+50

+48 15" CMP 28

+48 20" BOX 37

+45 ER 13

+44 PP 22

+30 POR 27

+30 BEG CURB 27

+24 BR 43

+23 END WOODS 21-70

+00 M.N 1

5+00

RO 13

+98 ER 48

+84 POR 28

+89 BEG CURB 28

+83 COR FEN 31

+75 BR 14

+54 PP 27

+50 BEG WOODS 26-62

+50

+27 PP 25

+20 RAN TPE

+00 FEN 29

RO 16 RO 16

+00 BUSH 29

4+00

+75 BUSH 40

+75 50 EDGE RD 25

3+50

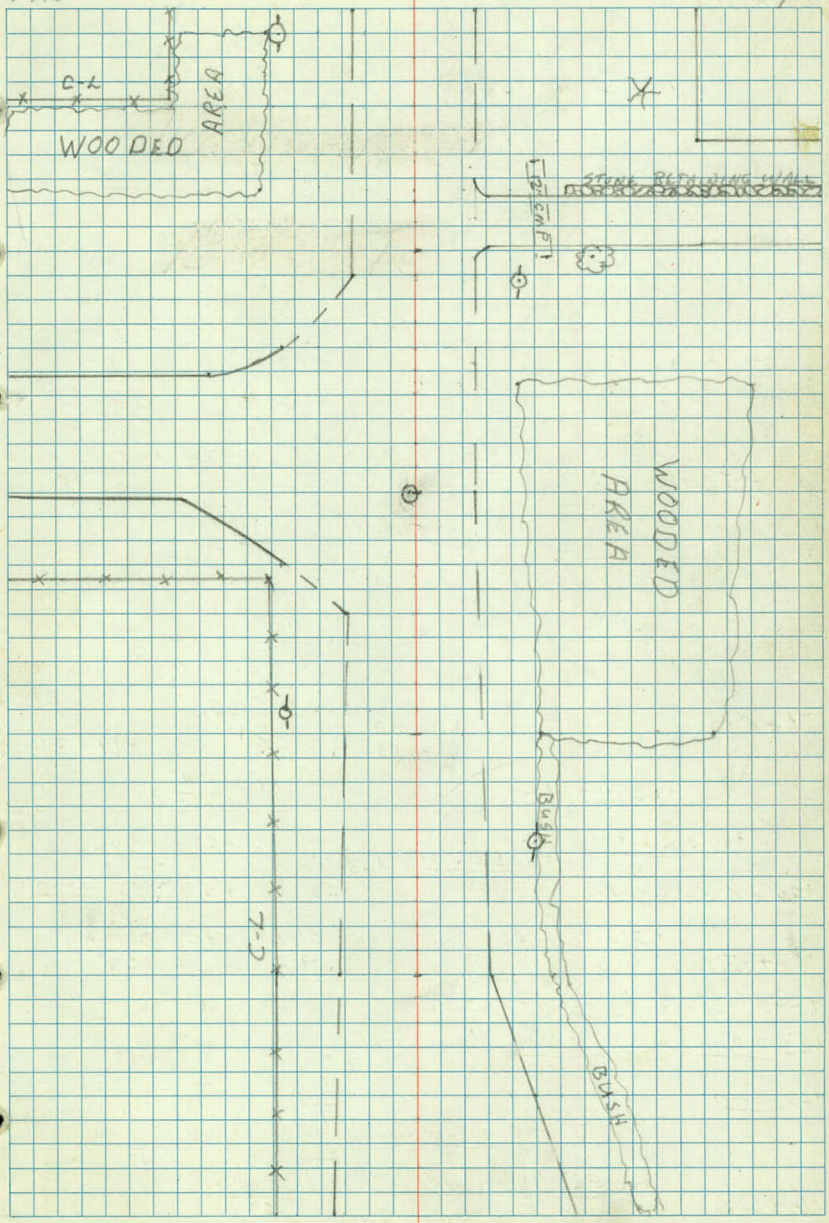
+50 FEN 29

RO 17

ML
RC
MR

SEPT 13, 78
CLOUDY 62°

4



LT

+50 SE COR #818 60 ℄

+43 STUMP 37

+34 COR #818 55-60

+21 SW HO #818 55

+21 10" ELM 44

+11 10" ELM 37

+00 END SPILLWAY 20-32

RD 13

+83 18" CMP 32

+75 BEG. SPILLWAY 20

+67 END WOODS 27-43

+67 PP 27

+50

+33 BEG. WOODS 24-43

+22 BUSH 43

+08 COR HO #912 62

+08 18" WILLOW 40

7+00

RD 13

+83 YARD LT. 34

+66 COR. HO #912 64

+60 ℄ DRIVE 10' BIT.

+54 24" COTTONWOOD 60

+51 END FENCE 51

+50

+25 4" ELM 49

+24 3" ELM 50

+34 2" ELM 50

+22 4" TWIN ELM 49

+18 3" ELM 50

+23 6" ELM 50

+11 10" POPPEL 53

+08 4" ELM 51

+00 FENCE CYCLONE 51

6+00

RD 13

RT

+49 ℄ ROCK DRIVE 10'

+43 COR GARAGE 46

+17 ℄ DIRT DRIVE 10'

RD 14

+95 PP 24

+84 18" CMP 27

+67 BEG. WOODS 24-59

+55 6" TWIN ELM 78

+55 6" TWIN ELM 71

+55 10" TWIN ELM 75

+41 ℄ ROCK DRIVE 13'

+27 10" PINE 73

+27 24" ELM 65

+27 10" PINE 52

+21 COR HO 909 92

+18 6" PINE 46

+03 COR HO 909 82-92

+00 E. BUSH 34

RD 13

+94 COR HO 909 82

+83 PINE 45

+66 8" PINE 46

+63 PP 23

+57 BASSWOOD 46

+51 6" PINE 45

+55 8" PINE 55

+35 M.H. ℄

+33 PINE 45

+22 6" PINE 44

+08 ARC P. 37

+03 HYD 22

+06 BEG. BUSH 34

+02 NE COR HO # 59

RD 13

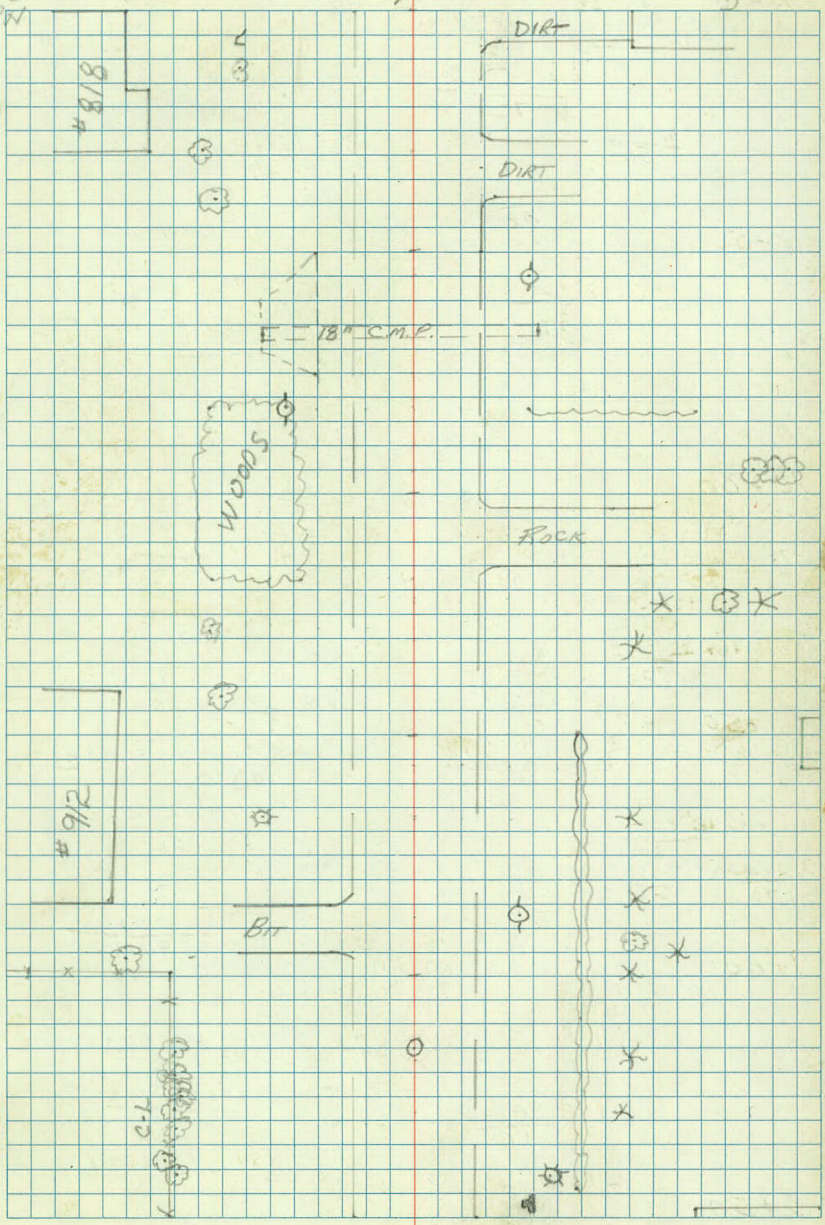
ML
MR
JT
RD
RW

LT

RT

8-23-78
CLOUDY 76°

5



11+00

+00 BUSH 28

RO 14 ℄ RO

+92 COR #800 71-81

+78 SW HO #800 72

+91 TELE M.H. 41

+91 TELE M.H. 34

+64 BR 21

+86 POR 37

+70 6" ASH 50

+62 12" ELM 39

+70 BUSH 36

+54 4" LOCUST 28

+52 20" ELM 60

+50

+23 3" LOCUST 44

DIRT

+24 ℄ DRIVE 20'

+09 SE HO # 812 71

+12 END S.W. 34

+03 NE HO # 809 39

+00 10" ELM 44

RO 13 RO 14

10+00

+97 BUSH 26

+86 COR HO # 812 71-86

+84 10" ELM 44

+84 BEG 2' SW. 36-41

+85 BUSH 27

+73 SW HO # 812 86

+76 18" BOX 44

+75 NW COR #809 41

+66 2" PINE 52

+61 BUSH 31

+64 22" ELM 70

+57 MH

+51 PP 25

+56 M.H. 23

+50 8" PINE 49

+50

ROCK

+47 ℄ DRIVE 18'

+32 8" MAPLE 37

+45 PLANTER 41

+30 NE HO # 811 50

+36 18" ELM 80

+36 BUSH 52

+30 PP 27

+06 BUSH 24

+03 4" CONC SIDEWALK 24-49

9+00

RO 13 RO 14

+95 NW COR HO # 811 49

+95 BUSH 26

+88 8" MAPLE 36

+83 6" PINE 49

+78 BUSH 37

+59 COR GARAGE 46

+61 ℄ DIRT DRIVE 13

8+50

ML
MR
JT
BORN

AUG 23-78
CLOUDY 86°

6

LT | RT

+50

+40 MH 35 | +44 MH 1 | ℄ RD 20 RP 6 | +48 N.W. HO# 727 99 | +40 MH 31 | +38 4' PINE 33

+33 TWIN 20" OAK 51'

+30 12" OAK 54 | +31 TRIPLE 14' OAK 68'

+08 BUSH 36 | +00 ℄ BIT DRIVE 53'

13+00

RD 21 RP 6

+75 4' S.W. 47

+80 END PARKING 37 | +75 STONE RETAINING WALL 53 | +72 18" OAK 58

+61 4' S.W. 55 | +67 10" PINE 62

+61 10" PINE 68

+50 12" ELM 45 | +48 10" PINE 79

+50

+33 BEG. PARKING LOT 35 | +40 PP 18 | +44 NE COR HO# 94

+31 BIT CURB | +37 PP 32 | +31 18" ELM 60 | +33 16" ELM 60

+23 ℄ BIT DRIVE 11' | +18 END FENCE 58 | +21 8" PINE 73 | +16 12" ELM 50 | +10 4" PINE 65

+14 BEG BIT CURB

+00 SIGN 61 | +00 BEG FENCE 61 | +07 6" PINE 69 | +05 6" PINE 68 | +08 18" ELM 77

+00 SE COR APT 51 | +00 NW COR HO# 160 | +02 10" PINE 80

12+00

RD 15 RP 12

+75 BUSH 41 | +75 ER 17

+61 SW COR APT BUILD. 74 | +59 M.H. 45

+50 POR 31

+41 M.H. 24 | +38 BR 75

+44 20" BOX 55 | +35 ARCLIGHT 28 | +41 GSO 22 | +26 WSO 26

+20 ℄ BIT DRIVE 13' | +20 M.H. 2 | +21 ℄ 8TH AVE

+16 M.H. 7 | +02 TELE M.H. 38

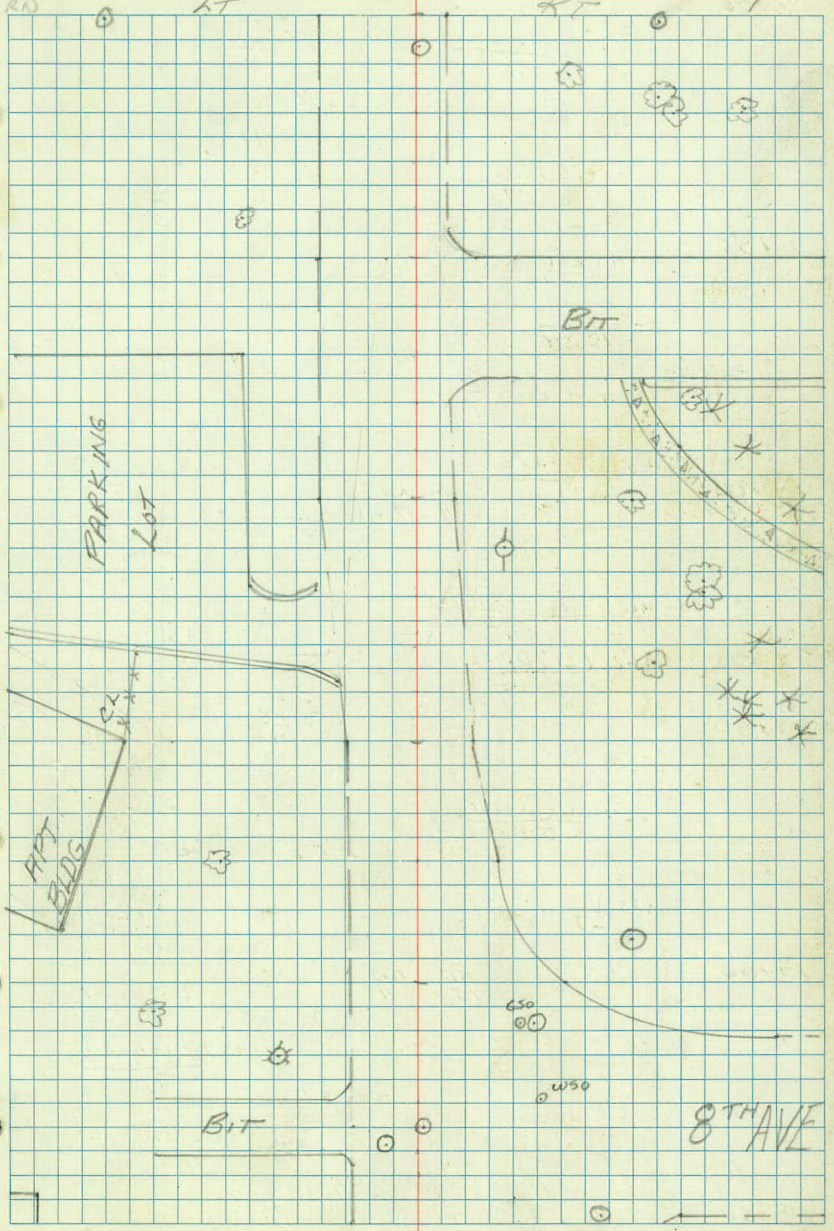
+06 SE # 800 79 | +02 ER 55

11+00

RD 14 | RD

MG
MR
JT
RD
RM

AUG 23, 78
CLOUDY 76°



16+00

+98 SW Ho # 704 — 56 — RO 9 — RD 17

+79 EK — 56

+84 POR — 40

+56 ARC LT. — 17

+50 END PARKING LOT — 45

+66 BR — 21

+66 36" COTTONWOOD — 43

+50

+43 END FEN — 18 — RO 8 — RO 18

+28 WOOD FEN. — 18-34

+28 MH — 40

+18 BIT DRIVE 20'

+00 END FENCE — 21

+07 NE Ho # 709 — 77

15+00

RO 9 — RO 17 — +98 BUSH — 55

+82 WOOD BEG. FENCE — 21

+89 SIGN — 29-32

+61 NW COR Ho # 709 — 77

+62 ℄ 21' BIT DRIVE

+50

+50 PP — 42

+39 BEG. PARKING LOT — 56

+27 CHAIN FENCE — ← 59

+35 ℄ 13' BIT DRIVE

+13 PP — 27

+20 NE Ho # — 75'

14+00

RO 15 — RO 11

+97 NW Ho # — 75'

+87 NE Ho # 727 — 78

+80 ℄ 11' DIRT DR.

+75 COR IN Ho # 727 — 78-100

+59 18" OAK — 79

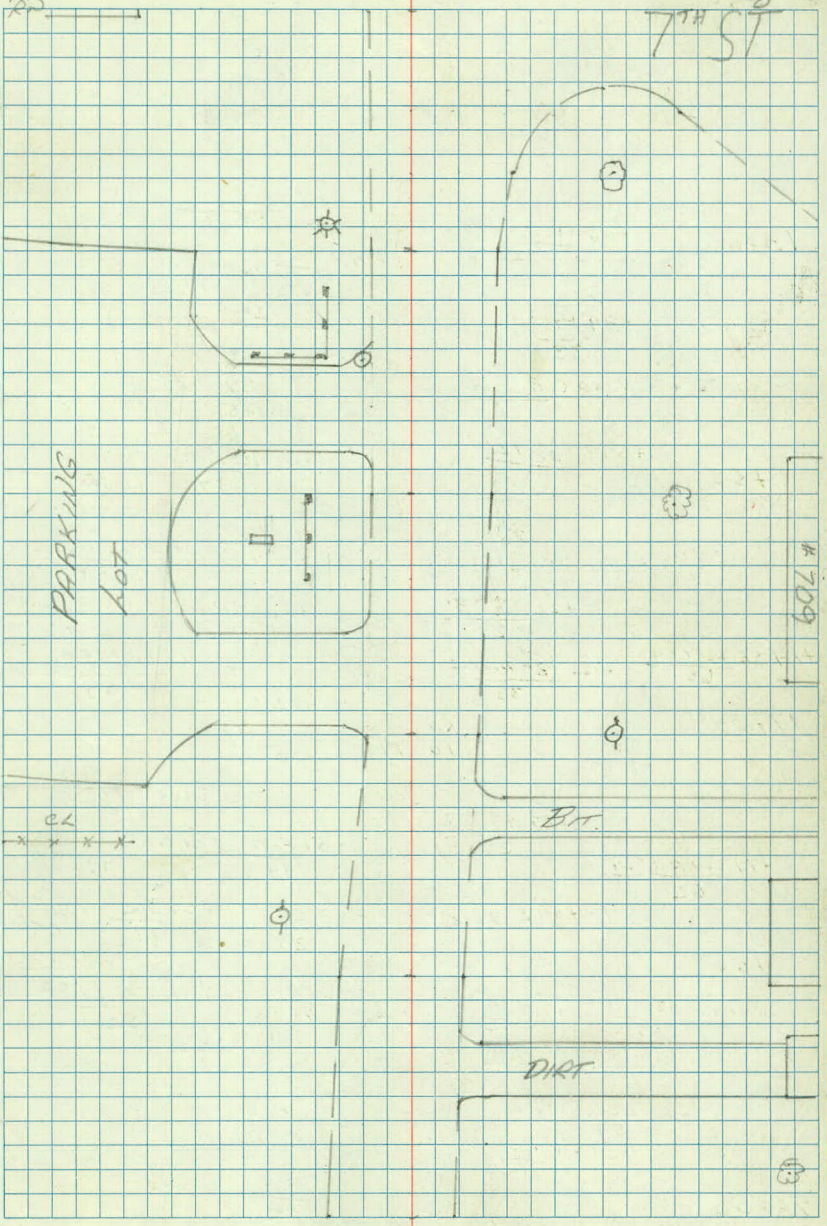
13+50

RO 17 — RO 9

ML
MR
JT
RD
KP

AUG 24, 78
CLOUDY 78°

8



LT ℄ RT

+50 RO 7 RO 18

+26 PARKING LOT 80

+07 M.H. ℄ +00 TELE M.H. 29

18+00 +00 (9) WILLOW 32 RO 9 RO 18 +74 8" PINE 63 +79 10" PINE 39

+76 PARKING LOT 80 +89 PP 35 +68 ROCK ℄ DR 12' +72 8" PINE 75

+85 MH 64 +71 APPLE 8" 81

+79 QUAD. CUTTONWOOD 38 +53 8" PINE 37

+50 8" PINE 40

+54 ℄ PIT DR 18' +46 12" PINE 37 +42 N.E. HO #657 110

+50 +23 M.N. 34 +16 10" APPLE 84

+22 CONC DR 8' 23 +09 8" PINE 51 +10 8" PINE 43

+14 SE HO #664 63 +12 18" MAPLE 33 +04 NW HO #657 104

+02 6" PINE 93

17+00 RO 10 RO 17

+89 10" APPLE 78

+89 4' S.W. 27-57 +81 F.P. 44 +81 NE HO #669 99

+77 SW HO #664 62

+59 ℄ DIRT DR 23' +58 HYD 26 +66 ER 17

+50 +46 NW HO #669 83

+47 42" MAPLE 46 +45 PP 24 +42 PP 40 +96 16" MAPLE 52

+33 M.H. +31 ℄ ROCK DR. 11' +37 POR 30

+25 BR 44

+24 SE COR HO #704 59

+11 4' S.W 31-53 +17 ℄ 7TH AVE N.W

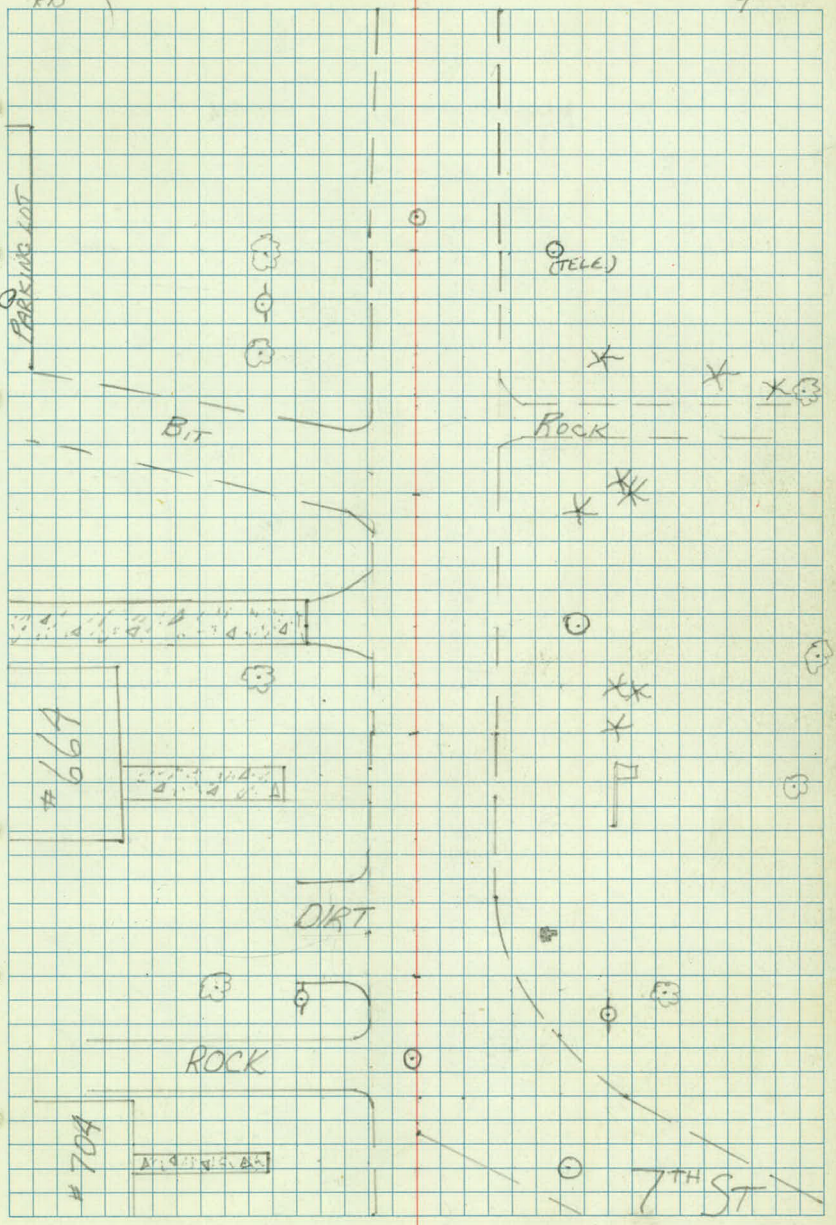
+10 M.H. 37

16+00 RO 9

ML
MR
JT
RN

AUG 25, 78
CLOUDY 80°

9



LT | ℄ | RT

21+00 | RD 19 | RD 30

+70 END TAPER 18

+60 10" COTTONWOOD 30

+58 PP 21

+97 SE COR LUMBER CO 41

+50

+96 BEG CONC. CURB 30 (BG)

+47 SW COR N.B. LUMBER CO 40

+96 BEG S.W. 30-40

GA.

TC MH +17 13

BS.

+18 E.R. M.H 36

+02 NE COR BUILDING 88

20+00 W.MH +89 24

RD 10 | RD 30

+70 MH 52 +70 MH 42

+74 BEG BIT TAPER

+65 PP 26

+81 NW COR BUILD 88

+70 GSO 21

+50

RD 4 | RD 30

+38 PARKING LOT 31-84

+17 E RAIL

+17 E RAIL

+15 E RR TRACKS 0

+15 E RR TRACKS

+12 W RAIL

+12 W RAIL

+09 BEG BIT TAPER 22

19+00

RD 22 | RD

+95 3" ELMS 28

+99 BUSH 68

+87 FEN. 44

+75 PET. V.P. 35

+88 Dirt Driveway

+75 PETROLEUM SIGN 96

+71 M.N 74

+69 4" ELM 92

+66 PP 18

+66 PP 114

+52 12" CMP 42

+52 12" CMP 25

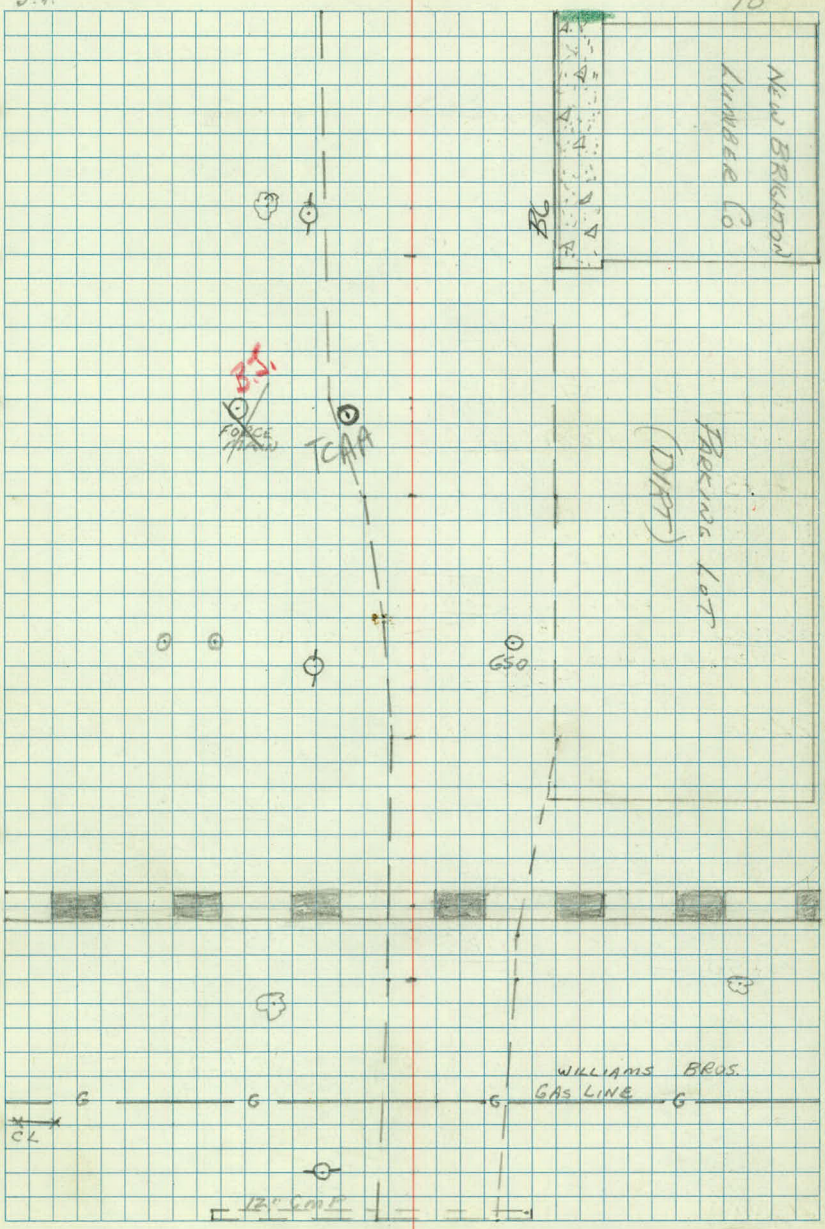
18+50

RD 7 | RD 18

M.L.
M.R.
J.T.

AUG 29, 78
SUNNY 60°

10



LT ℄ RT

+50

+47 BEG SM. TREES
34-37

+42 NE COR BLDG
38

+20 NW COR BLDG
38

+18 NE COR BLDG
38

+08 GSO
30

23+00

RO RO
19 30

+81 ARC LT.
21

+78 NW COR BLDG
39

+77 CONC SPILLWAY
39 →

+76 NE COR BLDG
39

+76 PP
24

+60 SW
27-33

+69 DIRT E DR 14'

+60 3' SW
33-43

+56 SE COR BUILDING
38

+50

+27 ARC LT
31

+25 N.W. BLDG
39

+11 ER
30

+06 S.W.
39 →

+46 NYD
23

+37 WSO
10

+09 SW.
30-38

+09 POR
37

+09 C.B
42

+27 SW COR BUILDING
38

+07 BEGIN CONC. CURB
42

+07 C.B.
30

+07 BR
42

+22 4' SW
35-73

+22 PARKING LOT
18-92

+22 S.W.
28-35

22+00

RO
19

+80 & 6TH AVE

+71 ER
41

+82 MH
42

+71 M.H.
44

+65 PP
62

+63 POR
36

+52 LIGHT POLE
92

+52 PARKING LOT
21-92

+53 END CONC CURB
30

+53 BR
30

+50 PP
22

+50

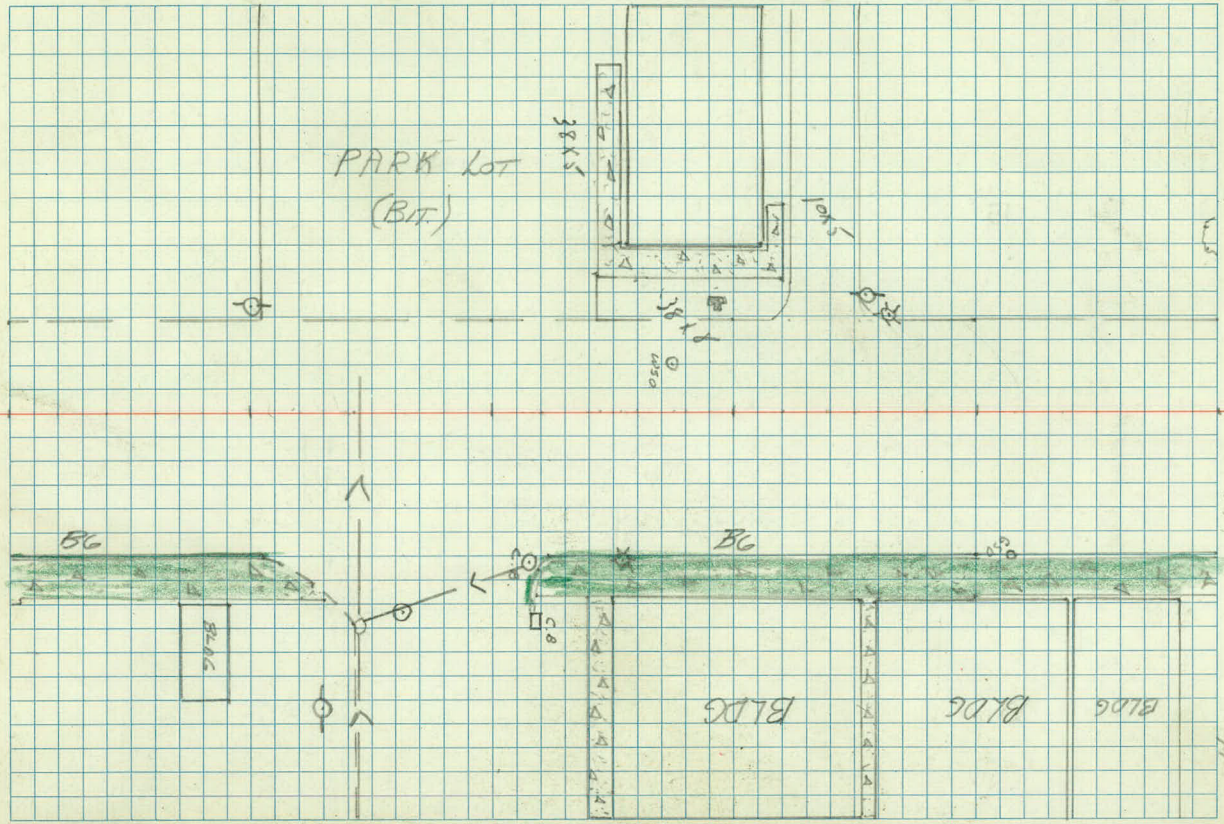
+45 NE COR BUILDING
40

+35 NW COR BUILDING
40

+02 SW
30-38

21+00

RO RO
19 30



M.L.
M.R.
J.T.

AUG 29, 78
SUNNY 60°

LT

℄

RT

+00 CURB 33

+00 GAS MED 47

26+00

RO 20

RO 22

+85 GAS MEDIAN 48

+87 M.H 25

+86 GSO 27

+84 NW COR BLDG 73

+84 GSO 25

+79 GSO 26

+76 BEG CURB 33

+65 H.H. 24

+58 BEG WOODS 36-58

CONC

+54 ℄ 33' DR

+50

+42 ER 21

+39 HYD 22

+48 MH 18

+26 CONTROL BOX 38

+30 PP 36

+32 PP 27

+43 END CURB ISLAND 33-43

+40 M.H 5

+22 LT SIGNAL 36

+22 POR 28

+38 LT SIGNAL 25

+26 H.H. 35

+37 ER 22

+31 CURB ISLAND 33-43

+33 H.H. 28

+28 POR 25

+20 BR (BG) 39

+30 BEG. S.W 23-33

+18 C.B. 82

+25 BR 32

+25 BEG 6' S.W 43

25+00

BG18

(BG24)

+72 BEG C&G 37

+72 ER 37

+72 C.B. 82

+80 ER 41

+68 H.H. 33

+65 POR 29

+71 C.B. 30

+79 LT SIGNAL 39

+79 ARC LT 42

+66 S.S.W. 25

+61 LT SIGNAL 26

+77 POR 32

+70 BR 30

+68 COR BLDG 43

+56 PP 65

+57 PP 27

+67 C.B. 29

+67 COR BLDG 38

+50 BR (BG) 17

+50

+40 FMMH 25

+42 BEG CURB 17

+40 GSO 31

+21 ARC LT. 21

+00 PP 25

+00 END SM. TREES 33-38

24+00

RO 17

RO 30

+98 NW COR BLDG 39

+51 ARC LT. 31

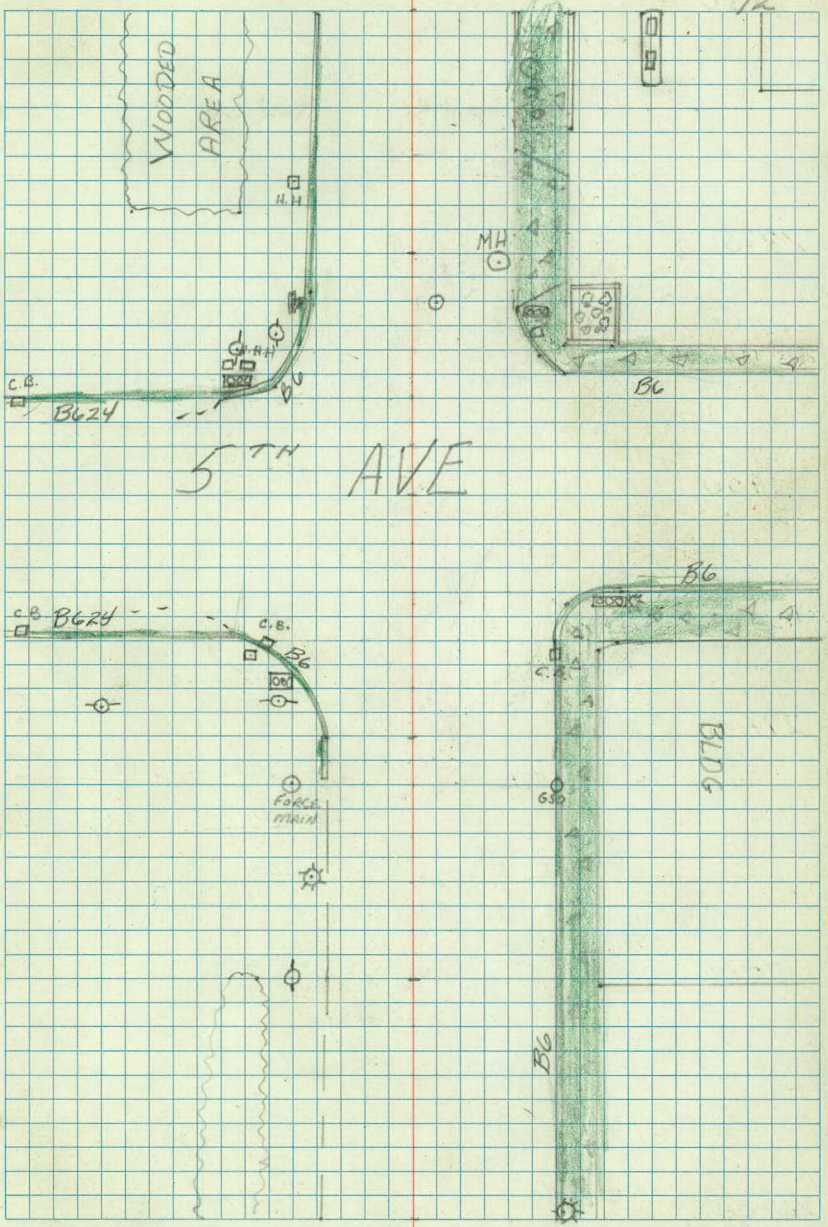
23+50

M.L.
MWR
J.T.

LT ℄ RT

AUG 29, 78
SUNNY 60°

12



LT ℄ RT

+50

+44 PP
29

RD
23

+16 36" APPLE
65

+07 BEG WOODS
44 - 150

28+00

RD 23

RD 10

+66 BEG WOODS
22 - 41

+53 6" POPPEL
30

+52 6" POPPEL
26

+50

DIRT
+11 ℄ 60' DR

27+00

RD 23

RD 10

+92 (5) 3" BOX
37

+85 PP
30

+58 6" BOX
57

+50

+72 END CURB
22

+72 END S.W
33-38

+52 BEG S.W
33-38

+52 WJO
33

+70 M.H
6

+52 END CURB
34-64

+72 BIT BEG TAPER
22

+72 NE COR BLDG
38

+52 NW COR BLDG
38

+40 END WOODS
42-58

+34 END CURB
21

+31 PP
29

+47 LT. POLE
36

+31 ℄ 29' DR

+15 END CURB
33

+11 GAS TANK
56

+45 BEG. CURB
34-64

+26 GAS TANK
53

+18 GAS TANK
55

+11 NE COR BLDG
69

26+00

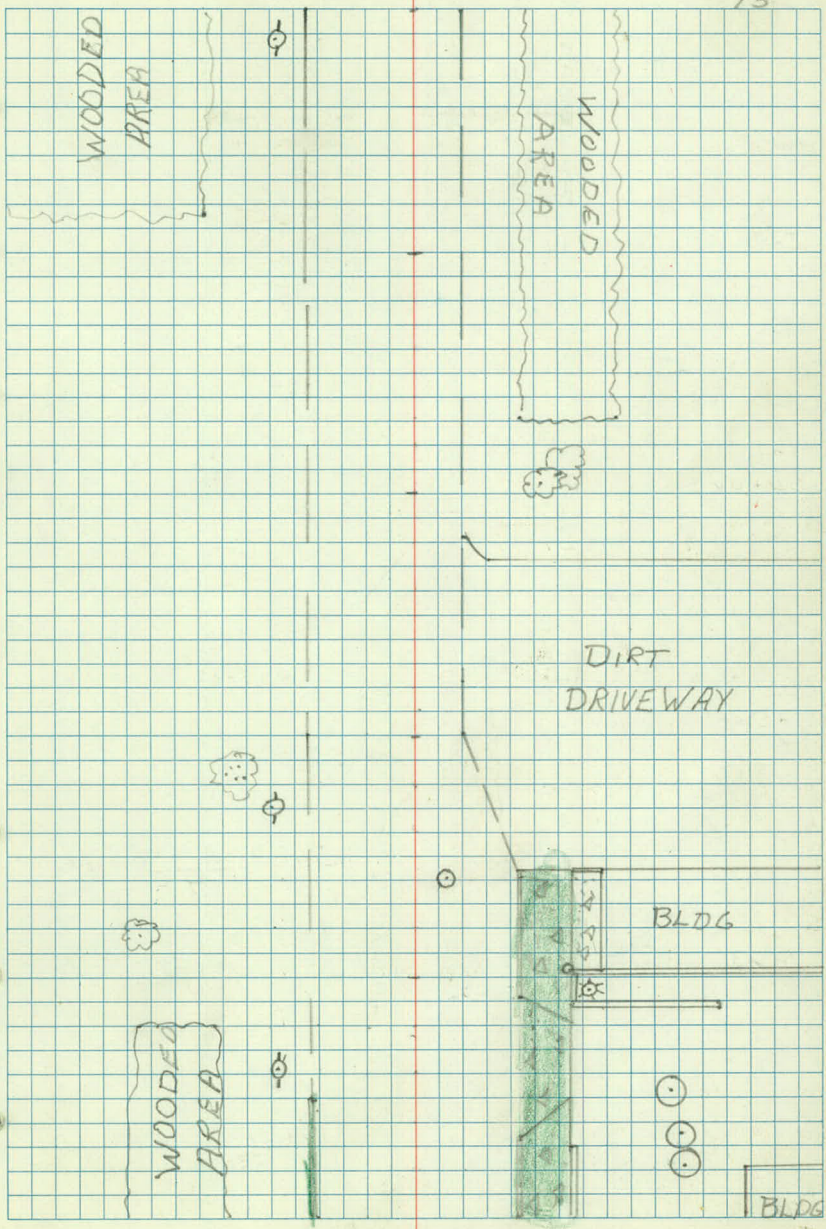
RD 20

RD 22

ML
LPD
MR

SEPT 7 78
SUNNY 80°

13



31+00 +00 WOODS 34 RD 19 RD 14 RT

+63 NW COR HO #303 121

+66 TRIPLE 8" PINE 70

+56 8" PINE 42

+00 8" PINE 34

+56 8" PINE 34

+33 24" ELM 77

+50

+92 ℄ DIRT DR 10'

+33 16" ELM 52

+46 ℄ 12' DIRT DR 33

+31 24" ELM 29

+08 RT DR

+63 24" BOX 79

+03 18" ELM 29

+03 24" BOX 49

+00 WOODS 35

30+00 RD 20 RD 12

+89 PP 29

+96 NE COR BLDG #339 66

+83 TWIN 12" ELM 28

+59 4' S.W. 39-61

+50

+33 MH 2

+21 NW COR BLDG #339 64

+00 WOODS 39-150

29+00 RD 22 RD 10

+96 ℄ 12' DIRT DR

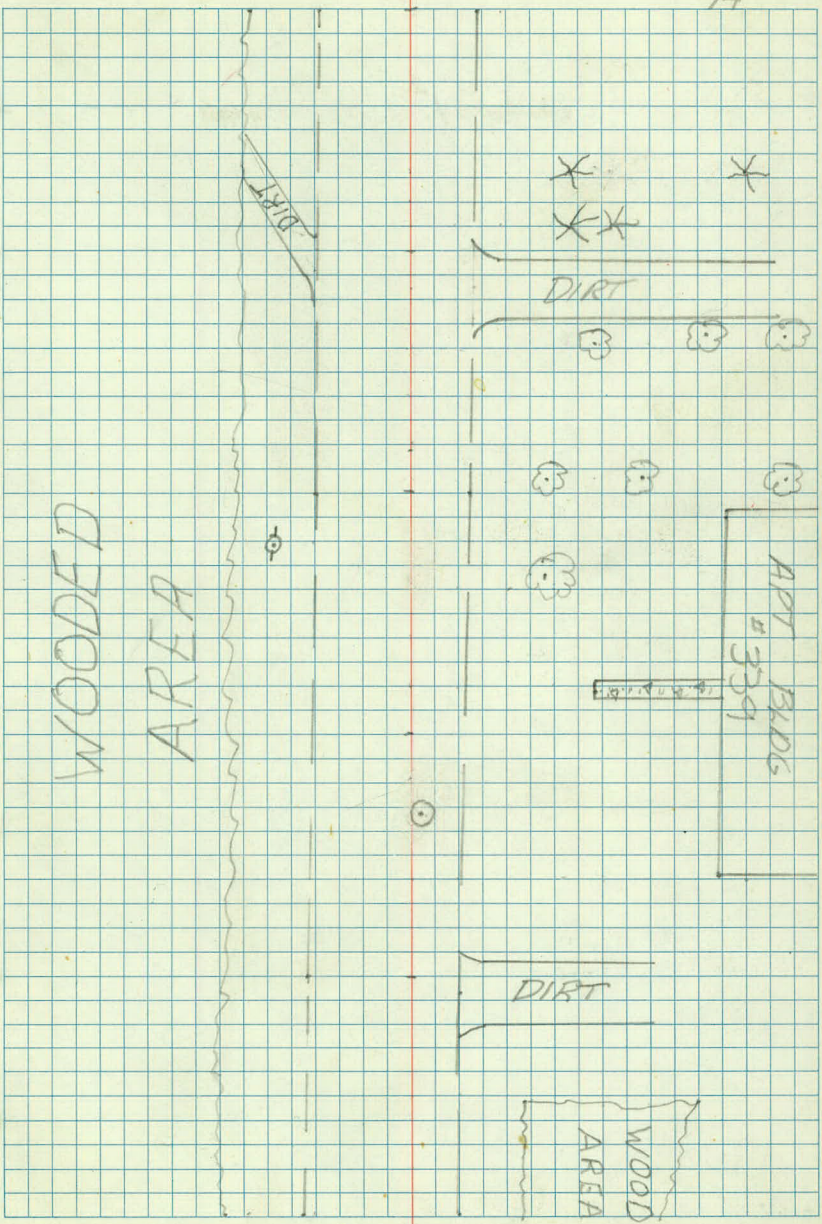
+74 END WOODS 23-60

28+50

ML
LPD
MR

SEPT 7, 78
SUNNY 86°

14



32+00

+50

+22 NK COR HO
119

+27 30" ELM
35

+16 8" PINE
35

+27 8" PINE
50

+17 10" TWIN PINE
70

31+00

ML
MR
RC
JT

SEPT 14, 78

CLEAR 68° 1

10TH ST N.W.

X SECTIONS

0+00 TO 31+00

STA	+	π	−	ELEV
BM	8.67	898.71		890.04
0+08				
0+00				
✓				
0+58				
0+50				
✓				
+96			3.85	894.86
+96			3.92	894.79
1+08				
1+00				

M.L.
R.C.
MR
JT

SEPT 14, 18

LT ℄ RT 2

SPIKE IN PP 2+25 RT 40'

98.19	97.38	97.50	97.39	98.13
0.52	1.33	1.21	1.32	0.58
14	14		15	15
CONC S.W	CONC	CONC	CONC	CONC S.W.

97.08	96.31	96.40	96.29	97.01
1.63	2.40	2.31	2.42	1.70
15	15		15	15
CONC S.W	CONC	CONC	CONC	CONC S.W.

C.B. 0+96 RT 14

81.61	88.41	C.B. 0+96 LT 14								
		95.21	95.17	94.51	95.00	94.74	95.21	95.11	93.11	88.81
17.1	10.3	3.5	3.54	4.20	3.71	3.97	3.50	3.6	5.6	9.9
75	42	20	16	15		15	16	22	32	55
			T.C	CONC		CONC	T.C.			

88.11
10.6
75

STA	+	K	−	ELEV
		898.71		
1+57 1+50				
✓				
1+79 1+73				℄ RAMPS ON + OFF
✓				
2+06 2+00				
✓				
2+55 2+50				

ML.
RC
MR
JT

SEPT 14, 78

3

		LT					RT	
91.01	91.71	93.41	93.62	93.17	93.42	93.20	92.71	92.49
7.7	7.0	5.3	5.09	5.54	5.29	5.51	6.00	6.22
75	50	26	20 T.C.	19 CONC		12 BIT RAMP	54 BIT RAMP	75 Ramp

		91.1	91.77	92.43	92.70	92.53	91.93	92.32
		7.61	6.94	6.28	6.01	6.18	6.78	6.39
		75	50	13		13	50	75

90.49	91.17	91.59	91.99	91.53	91.79	91.36	91.41	92.01	90.51
8.22	7.54	7.12	6.72	7.18	6.92	7.35	7.3	6.1	8.2
75 RAMP	45 CONC	44 T.C. MED	16 T.C. MED.	15 CONC		21 CONC	34	47	75

		83.81	89.11	89.23	89.72	89.55	89.21	88.11	89.71	90.37
		14.9	9.6	9.48	8.99	9.16	9.5	10.6	9.0	8.34
		75	33	27		15	29	37	51	59 BIT

STA	+	π	−	ELEV
		898.71		
T.P	1.41	889.30	10.82	887.89
+73			0.48	888.82
+93			7.69	881.61
3+03				
3+00				
✓				
3+51				
3+50				
✓				
4+00				

M.L.
R.C.
M.R.
J.T.

SEPT 14, 78

LT	℄	RT	4

RIM ON S.D. 2+63 RT 32'

M.H. 58' RT'

80.7	81.8	85.45	86.64	86.96	86.87	87.41	87.1	81.8	79.3
8.6	7.5	3.85	2.66	2.34	2.43	1.89	2.2	7.5	10.0
77	54	32			14	57	62	73	98

79.2	83.8	82.7	84.09	84.75	85.31	85.4	78.4	77.5
10.1	9.5	6.6	5.21	4.55	3.99	3.9	10.9	11.8
75	41	28	16		32	42	60	67

77.9	78.9	80.2	82.3	82.86	84.15	84.14	84.1	81.2	76.7
11.4	10.4	9.1	7.0	6.44	5.15	5.16	5.2	8.1	12.6
75	46	38	24	16		16	28	39	50

STA	+	π	−	ELEV	
		889.30			
4+30					
✓					
4+45			℄ DITCH		
✓					
4+80					
T.P.	8.89	892.44	5.76	883.54	883.55

M.L.
R.C.
MR
J.T.

Sept 14, 78

LT			℄		RT			5
77.3	77.5	82.1	83.02	83.87	83.91	83.7	82.8	76.2
12.0	11.8	7.2	6.28	5.43	5.39	5.6	6.5	13.1
68	35	22	13		13	22	45	53

72.2	73.27	76.0	82.3	83.0	83.83	83.79	83.8	82.3	74.39
17.1	16.03	13.3	7.0	6.30	5.47	5.51	5.5	7.0	14.91
79	44	42	23	13		14	24	46	57
	INVERT 24"								INVERT 24"

83.4	82.4	82.6	83.28	83.87	83.73	83.7	79.6	78.5
5.9	6.9	6.7	6.02	5.43	5.57	5.6	9.7	10.5
77	48	29	14		13	21	36	54

78.1
11.2
75

SPIKE IN PP 4+41 LT

STA	+	⅄	—	ELEV
		892.44		
5+00				
+48			11.54	880.90
+15			℄ Ro	
+57				
+69			11.24	881.20
6+00				

ML
RC
MR
JT

SEPT 14, 78

LT ℄ RT 6

83.59	83.46	83.53	83.80	83.71	83.54	79.74	79.94
8.85	8.98	8.91	8.64	8.73	8.9	12.7	12.5
25	59		M.H	12	21	33	54
BIT CURB	BIT CURB						

15" C.M.P. RT 28'

83.59	83.50	83.58	83.90	83.69	83.44	79.94	80.34
8.85	8.94	8.86	8.54	8.75	8.7	12.5	12.1
75	52	12		12	23	40	57

78.44	80.04	83.94	83.67	83.87	83.63	82.14	80.94
13.9	12.4	8.5	8.77	8.57	8.81	10.3	11.5
59	44	23	12		12	25	71

15" C.M.P. RT

81.54	83.34	83.70	83.94	83.74	83.54	82.74	85.04	84.84
10.9	9.1	8.74	8.50	8.70	8.9	9.7	7.4	7.6
51	26	12		13	17	24	34	53
FENCE								

STA	+	↑	−	ELEV
		892.44		
6+35			8.46	883.98
6+60			ENTRANCE LT	
T.P.	5.00	889.22	8.22	884.22
7+00				
+41			ENTRANCE RT	
+83			℄ DITCH	

ML
RC
MR
JT

SEPT 14 78

LT	℄	RT	7

M.H. ℄

83.14	83.44	83.78	84.07	83.95	84.04	88.44	88.24
9.3	9.0	8.66	8.37	8.49	8.4	4.0	4.2
49	35	14		14	23	53	70

P.K ℄ STA 7+00

83.72	83.72	84.12	83.92	83.92	84.22	84.12	84.12	84.32	87.62	88.42
5.5	5.5	5.1	5.3	5.3	5.0	5.1	5.1	4.9	1.6	0.8
50	32	23	22	14		13	17	27	40	82

83.12	83.72	84.12	83.62	83.82	84.34	84.42	85.42	86.32
6.1	5.5	5.1	5.6	5.4	4.88	4.8	3.8	2.9
60	28	23	19	13		13	53	70

77.32	77.41	83.32	83.82	84.33	84.32	84.02	77.41	81.02
11.9	11.81	5.9	5.4	4.89	9.9	5.2	11.81	8.2
38	32	20	13		13	20	32	50
	INVERT						INVERT	

81.22		82.02	83.12
8.0		7.2	6.1
55		79	57

	+	π	−	ELEV
		889.22		
T.P.	5.64	890.13	4.73	884.49
8+17				
+60		ENTRANCE LT + RT		
9+00				
+36			ENTRANCE LT	
+56			4.26	885.87
+57			4.08	886.05

M.L.
B.W.
MR
J.T.

LT ℄ RT 8

P.K. ℄ STA. 8+00

85.73	85.13	83.93	84.33	84.71	84.53	84.03	83.13	83.13
4.4	5.0	6.2	5.8	5.42	5.6	6.1	7.0	7.0
55	26	20	13		13	19	50	58

86.33	85.53	84.73	84.83	85.18	84.93	84.73	84.45
3.8	4.6	5.4	5.3	4.95	5.2	5.4	5.68
80	52	22	13		13	24	45 CONC. SLAB

86.43	86.53	85.83	85.03	85.23	85.59	85.33	85.23	86.23	86.53
3.7	3.6	4.3	5.1	4.9	4.54	4.8	4.9	3.9	3.6
64	46	24	21	13		13	21	25	40

87.43	86.63	85.63	85.63	85.87	85.53	85.63	86.13	86.23
2.7	3.5	4.5	4.5	4.26	4.6	4.5	4.0	3.9
75	50	22	13		13	20	52	66

M.H. LT

M.H. ℄

	+	Π	−	ELEV	
		890.13			
10+00					
+25			ENTRANCE Rt		
+50					
+91			2.90	887.23	
+91			8.50	881.63	
11+02			2.30	887.83	
11+16			3.00	887.13	
11+20			2.74	887.39	
11+41			2.88	887.25	
+59			7.62	882.51	
B.M.			2.83	887.30	887.34

M.L.
B.W.
M.R.
JT

LT				℄		RT		9
87.53	86.93	85.53	85.63	85.83	86.31	86.13	86.03	86.13
2.6	3.2	4.6	4.5	4.3	3.82	4.0	4.1	4.0
72	36	26	22	13		13	20	37 HO.

86.83	86.13	85.93	85.83	85.93	86.57	86.43	86.13	86.43	85.83	85.53
3.3	4.0	4.2	4.3	4.2	3.57	3.7	4.0	3.7	4.3	4.60
78	65	23	20	13		13	20	24	49	70

CONC SLAB

87.03	86.43	86.03	86.33	86.03	86.13	86.76	86.63	86.63	85.93
3.1	3.7	4.1	3.8	4.1	4.0	3.37	3.5	3.5	4.2
78	66	32	24	22	15		15	21	70

M.H. Rt 34

M.H. Rt 41

M.H. Rt 38

M.H. Lt 5'

M.H Rt 2'

M.H. Rt. 24'

M.H. Rt. 45'

STA	+	π	−	ELEV
	8.92	896.10		887.18
11+20			Ent. Lt.	
+21			℄ 8Th St. Rt.	
+50				
12+00				
+23			Ent. Lt.	
T.P.	6.07	893.34	8.83	887.27

MC
BW
MR
JT

Lt. ℄ Rt. 10

SPIKE P.P 12+37 LT

84.70	85.30	86.60	87.44
11.4	10.8	9.5	8.66
83	51	18	

87.68	88.80	90.10	91.40
8.52	7.3	6.0	4.7
8	50	100	150

84.80	85.00	85.80	86.90	86.70	87.52	88.10	88.50	91.40	95.60
11.3	11.1	10.3	9.2	9.4	8.58	8.0	7.6	4.7	0.5
75	59	38	26	17		32	60	78	109

85.30	85.40	85.70	86.30	87.00	87.59	87.70	88.20	88.50	90.70	95.10	95.70
10.8	10.7	10.4	10.8	9.1	8.51	8.4	7.9	7.6	5.4	1.0	0.4
72	60	36	35	15		11	19	29	45	76	100

Bit Carb

84.30	84.90	87.00	87.54	87.70	88.66	91.30	94.60	95.70
11.8	11.2	9.1	8.46	8.4	7.5	4.8	1.5	0.4
86	24	16		10	29	45	65	88

P.K. & STA. 14+00

STA	+	π	−	ELEV
		893.34		
13+00			Ent.	Rt.
+44			5.98	887.36
+49			7.51	885.83
+49			6.18	887.16
+80			Ent. Rt.	
TP	4.78	892.35	5.77	887.57
14+35			Ent. Rt.	
+62			Ent. Lt.	
15+~~18~~ +19			Ent. Lt.	

ML
BW
MR
JT

Lt.				℄			Rt.		
83.34	84.74	86.44	86.94	87.49	87.54	87.84	88.54	89.14	
10.0	8.6	6.9	6.4	5.85	5.8	5.5	4.8	4.2	
83	59	30	20		6	30	66	100	

MH Lt. 1'

MH Lt. 35'

MH Rt. 31'

82.34	83.34	85.14	86.14	86.64	87.23	87.24	87.84	89.14	90.14
11.0	10.0	8.2	7.2	6.7	6.11	6.1	6.1	5.5	4.2	3.20
80	56	34	25	14		11	14	28	58	77
										conc slab

PK ℄ 15+50

82.35	83.65	86.45	86.95	87.40	87.45	87.75	88.25	89.25
10.0	8.7	5.9	5.4	4.95	4.9	4.6	4.1	3.1
81	51	19	13		12	20	50	88

82.15	83.15	87.05	87.42	87.45	87.95	87.75	88.45	89.85
10.2	9.2	5.3	4.93	4.9	4.4	4.6	3.9	2.5
90	57	11		14	24	31	42	71

82.05	83.25	87.55	87.64	87.45	87.75	87.65	88.75	89.85
10.3	9.1	4.8	4.71	4.9	4.6	4.7	3.6	2.5
75	47	8		18	29	34	44	71

90.15
2.2
89

STA	+	π	−	ELEV
		892.35		
15+~~28~~			5.00	887.35
+27				
~~+49~~				
+~~50~~				
~~+66~~				
+64				
16+10			5.24	887.11
+33			5.06	887.29
~~+15~~				
+~~17~~	Ent Lt.		℄ 7th St. Rt.	
~~+57~~				
+~~59~~			Ent. Lt.	
17+23			4.78	887.57

ML
BW
MR
JT

Lt. ℄ Rt. 12

MH Lt 10'

81.75	82.45	83.75	87.55	87.45	87.58	87.35	87.55	87.45	88.55	89.15
10.6	9.9	8.6	4.8	4.9	4.77	5.0	4.8	4.9	3.8	3.2
82	64	44	16	7		18	27	36	44	80

84.75	86.15	87.45	87.35	87.49	87.35	87.55	87.35	88.65	88.45
7.6	6.2	4.9	5.0	4.86	5.0	4.8	5.0	3.7	3.9
86	32	18	7		17	26	33	43	58

88.05 84 65
4.3 4.3
88.05

M.H. Rt. 32'

MH Lt. 1'

86.45	86.75	86.95	87.15	87.32	87.05	86.85	87.65	88.35	89.45
5.9	5.6	5.4	5.2	5.03	5.3	5.5	4.7	4.0	2.9
72	39	22	8		17	25	69	100	150

86.45	86.65	86.95	86.95	87.09	86.75	86.75	88.65	89.15
5.9	5.7	5.4	5.4	5.26	5.6	5.6	3.7	3.2
78	37	24	9		18	31	37	84

M.H. Rt. 34'

STA	+	π	−	ELEV	
		892.35			
T.P.	2.59	891.16	3.72	888.63	888.57
17+~~22~~ +19		Conc. Ent. Lt.			
+51 ~~+54~~			Ent. Lt.		
+65 ~~+68~~			Ent. Rt.		
+85			15.00	876.16	
T.P.	5.34	891.65	4.85	886.31	
18+~~00~~ +96					

M.L
BW
MR
JJ

Lt. ℄ Rt. 13

Hyd. SE. Cor. 7TH St

86.11	86.28	86.05	86.36	86.64	86.06	86.20	86.06	86.56	86.76
5.05	4.88	5.11	4.6	4.52	5.1	4.9	5.1	4.6	4.4
77	37	32	11		16	22	24	29	31

2.3 2.3
74 42
88.86 88.86

76.26	79.56	83.46	85.86	86.56	86.47
14.9	11.6	7.7	5.3	4.6	4.69
147	100	59	28	10	

76.36
14.8
174

75.96	76.46	83.76	86.36	86.36	86.43	85.96	87.86	88.46
15.2	14.7	7.4	4.8	4.8	4.73	5.2	3.3	2.7
100	74	45	25	10		17	47	88

Bit

MH Lt. 94'

PK ℄ STA 18+00

75.95	76.35	80.95	86.25	86.45	86.31	86.05	86.05	86.65	86.85	87.85
15.7	15.3	10.7	5.4	5.2	5.34	5.6	5.6	6.0	4.8	3.8
100	70	47	19	8		17	22	29	42	79

STA	+	π	−	ELEV
17+96		891.65		
18+~~00~~			6.05	885.60
+07			5.42	886.23
T.P.	4.10	890.82	4.93	886.72
+47 ~~+52~~				
+71			14.47	876.35
+83 ~~+88~~			Ent. Rt.	
19+03 ~~+08~~				
+07 ~~+12~~			West Rail	

ML
BW
MR

Lt. ℄ Rt. 14

MH Rt. 29'

MH ℄

PK ℄ STA 19+50

76.62	76.22	76.61	81.92	86.62	86.72	86.60	83.92	86.02	83.19	83.62	86.62	87.62
14.2	14.6	14.21	8.9	4.2	4.1	4.22	4.9	4.8	7.63	5.2	4.2	3.2
100	61	41	28	17	7		18	22	25	32	51	74
		Inv.							Inv.			

M.H. Lt. 74'

73.72	77.02	81.32	86.62	86.72	86.77	86.82	86.42	86.42	86.72
17.1	13.8	9.5	4.2	4.1	4.05	4.0	4.4	4.4	4.1
100	52	34	16	9		22	30	59	90

86.42	86.02	85.52	86.32	86.72	86.86	87.12	86.72	87.12
4.4	4.8	5.3	4.5	4.1	3.96	3.7	4.1	3.7
100	76	44	11	4		23	55	100

88.63	86.82	86.82	87.36	88.66 ~~88.46~~
2.19	4.00	4.00	3.46	2.16
200	50		50	200

STA	+	π	−	ELEV
		890.82		
19+09 19+75			℄ of Rails	
+11 ~~+17~~			East Rail	
+44 +50				
+70			5.07	885.75
+70			5.07	885.75
+94 20+00				
T.P.	3.66	890.04	4.44	886.38
+50				

ML
BW
MR

Lt. ℄ Rt. 15

86.92	86.52	86.32	86.12	86.84	87.02	86.82	87.12	87.32
3.9	4.3	4.5	4.7	3.98	3.8	4.0	3.7	3.5
100	75	50	25		25	50	75	100

88.66	86.86	86.82	87.31	88.63
2.16	3.96	4.00	3.51	2.19
200	50		50	200

83.82	85.42	86.72	86.72	86.73	86.72	87.12	87.52
7.0	5.4	4.1	4.1	4.09	4.1	3.7	3.3
83	46	10	4		30	68	94

M.H. Lt. 42'

M.H. Lt. 52'

84.02	85.22	86.22	86.32	86.38	86.42	86.72	86.82
6.8	5.6	4.6	4.5	4.44	4.4	4.1	4.0
79	47	19	9		30	62	84

PK ℄ STA 20+00

82.64	83.94	86.04	86.16	85.92	86.25	86.33
7.4	6.1	4.0	3.88	4.12	3.79	3.71
88	47	17		30	31	41
				Gutter	sidewalk	Bldg.

STA	+	π	−	ELEV	
		890.04			
21+00					
+50					
T.P.	2.80	890.06	2.75	887.29	887.26
+71			5.26	884.80	
+80			℄ 6th St.		
+83			5.65	884.41	
22+07			6.37	883.69	
+09			6.12	883.94	
+50					

ML
BW
MR

Lt. ℄ Rt. 16

77.94	83.04	84.64	85.54	85.81	85.35	85.69	85.72	85.94
12.1	7.0	5.4	4.5	4.23	4.69	4.35	4.32	4.1
119	100	48	18		30	31	41	84
					Gutter	sidewalk	sidewalk	

83.94	85.44	85.24	85.45	84.79	85.22	85.22	85.74	85.4
6.1	4.6	4.8	4.59	5.25	4.82	4.82	4.3	4.6
90	3.5	18		30	31	41	43	73
				Gutter	sidewalk	sidewalk		

4.4
100
85.64

Top Hyd. 22+46 Lt. 23'

M.H. Rt. 44'

76.66	81.46	83.96	84.26	85.16	85.25	84.26	84.76	84.86	84.86
13.4	8.6	6.1	5.8	4.9	4.81	5.8	5.3	5.2	5.2
128	117	93	60	18		31	52	82	100

M.H. Rt. 42'

C.B. Rt 30'

C.B. Rt 42'

85.06	85.29	84.76	84.92	83.95	84.38	84.44
5.0	4.86	5.3	5.14	6.11	5.68	5.62
40	30	19		30	30	38
Bldg	Sidewalk			Gutter	sidewalk	Bldg.

STA	+	π	−	ELEV.
		890.06		
T.P.	4.73	889.55	5.24	884.82
23+00				
+50				
24+00				
T.P.	3.96	888.32	5.19	884.36
+41				
+69				

MC
BW
MR

Lt. ℄ Rt 17

PK ℄ STA 23+00

75.15	78.55	83.55	84.55	84.82	84.10	84.43	84.59
14.4	11.0	6.0	5.0	4.73	5.45	5.12	4.96
84	53	43	19		30	30	38
					Gutter	Sidewalk	Bldg

73.05	76.95	82.65	84.95	84.35	84.74	84.25	84.40	84.29	84.75	83.95
16.5	12.6	6.9	4.6	5.2	4.81	5.30	5.15	5.26	4.8	5.6
100	54	38	25	18		30	30	38	64	100
						Gutter	SW	SW		

73.95	77.75	82.05	84.25	84.25	84.43	84.07	84.42	84.59
15.6	11.8	7.5	5.3	5.3	5.12	5.48	5.13	4.96
85	58	34	23	18		30	30	38
						Gutter	SW	Bldg

PK ℄ STA 25+00

74.72	80.72	83.22	83.85	84.24	83.88	84.33	84.56
13.6	7.6	5.1	4.47	4.08	4.44	3.99	3.76
100	59	42	16		30	30	38
			Gutter		Gutter	SW	Bldg

82.97	82.95	83.74	83.30	84.10	83.90	84.31	84.81	85.06
5.35	5.37	4.58	5.02	4.22	4.42	4.01	3.51	3.26
100	76	25	25		30	30	58	100
SW	SW	TC	Gutter		Gutter	TC	SW	SW

STA	+	π	−	ELEV
		888.32		
24+73			T.C. Lt.	
+73			Gutter Lt.	
+71			5.23	883.09
+72			5.91	882.41
+78			T.C. Rt.	
+78			Gutter Rt.	
+98			℄ 5th Ave.	

ML
BW
MR

Lt. ℄ Rt. 18

83.17	83.47	82.76	82.86	83.52	84.07
3.15	4.85	5.56	5.46	4.80	4.25
200	150	100	82	35	

84.72	83.09	82.66	82.52	83.09	84.07
3.60	5.23	5.66	5.80	5.23	4.25
200	150	100	82	35	

CB ~~Rt.~~ LT. 30'

CB ~~Rt.~~ LT. 82'

84.10	84.47	84.81	85.01	84.87	84.64
4.22	3.85	3.51	3.31	3.45	3.68
	36	78	100	150	200

84.10	84.30	84.64	84.73	84.70	84.35
4.22	4.02	3.68	3.59	3.62	3.97
	36	78	100	150	200

83.09	83.14	83.60	84.01	84.35	84.66	84.81	85.06	85.16	85.21
5.23	5.18	4.72	4.31	3.97	3.66	3.51	3.26	3.16	3.11
100	75	50	25		35	50	75	100	125

83.28	83.90	84.65	85.32	84.87	84.98	85.16
5.04	4.42	3.67	3.00	3.45	3.34	3.16
125	150	175	200	200	175	150

STA	+	π	−	ELEV	
		888.32			
25+24			Gutter		
+25			T.C.		
	2.08	888.04	2.34	885.98	885.96
+40			4.65	883.39	
+48			4.48	883.56	
+54			ENTRANCE RT		(CONC)
✓					
+87			4.80	883.24	
T.P.	3.81	886.43	5.42	882.62	

MC
PK
MR
JT

Lt. ℄ Rt. 19

84.33	82.96	82.36	82.49	83.45	83.92	84.18	84.49	84.64	84.61
3.99	5.36	5.96	5.83	4.87	4.40	4.14	3.83	3.68	3.71
	150	100	69	29		29	71	100	140

84.76	83.42	82.87	82.97	83.64	83.92	84.48	84.75	84.93	84.92
3.56	4.90	5.45	5.35	4.68	4.40	3.84	3.57	3.39	3.40
	150	100	69	29		29	71	100	140

Top Hyd NE Cor. 5TH Ave.

M.H 5' Rt

M.H. 18' Rt

81.54	83.14	83.10	82.75	83.28	83.43	83.96	84.09	84.28
6.5	4.9	4.94	5.29	4.76	4.61	4.08	3.95	3.76
52	40	20	20		22	28	34	74
		T.C.	GUTTER					

78.64	75.84	72.34
9.4	12.2	15.7
78	97	112

M.H. Rt 25'

STA	+	$\bar{\Delta}$	—	ELEV
		886.43		
26+00			-	
✓				
+29			ENTRANCE RT (CONC)	
+50				
+70			4.49	881.94
27+11			ENTRANCE RT	

ML
PK
MR
JT

LT ℄ RT 20

80.03	83.03	82.69	82.32	82.62	82.59	82.91	83.03	83.61
6.4	3.4	3.74	4.11	3.81	3.84	3.52	3.40	2.82
54	34	21	21		22	22	27	33
		T.C	GUTTER		GUTTER	T.C.	S.W.	T.C

78.43	84.69	83.32	
8.0	1.74	3.11	
86	66	33	
	BLDG		

77.73	80.33	82.53	82.31	81.99	82.33	82.04	82.50	83.96
8.7	6.1	3.9	4.12	4.44	4.10	4.39	3.93	2.47
83	45	26	20	20		23	29	66
			T.C.	GUTTER				

76.73	79.43	81.23	81.68	82.05	81.71	82.09	83.01
9.7	7.0	5.2	4.75	4.38	4.72	4.34	3.42
100	50	41	22		23	29	35
						S.W.	T.C.

M.H. RT. 6'

76.73	77.63	78.93	81.13	81.58	81.49	80.63	81.43	81.73	81.73
9.7	8.8	7.5	5.3	4.85	4.94	5.8	5.0	4.7	4.7
100	75	42	23		10	25	36	70	100

STA	+	⊼	−	ELEV
		886.43		
27+50				
28+00				
T.P.	4.61	884.64	6.40	880.03
+50				
+96			ENTRANCE RT (DIRT)	
29+33			RW 4.81 ←	879.83 4.81

ML
PK
MR
JT

LT ℄ RT 21

76.83	78.03	79.53	80.77	81.19	81.01	81.03	81.73	80.83	80.63
9.6	8.4	6.9	5.66	5.24	5.42	5.4	4.7	5.6	5.8
100	74	38	22		10	16	21	49	70

68.03	67.13	68.33	79.93	80.44	80.79	80.53	80.23	81.23	80.33	79.13
18.4	19.3	18.1	6.5	5.99	5.64	5.90	6.2	5.2	6.1	7.3
100	78 DITCH	65	44	22		10	11	19	42	64

P.K. ℄ STA 29+00

71.44	73.44	79.64	79.93	80.26	79.95	79.64	80.24	78.34	77.54
13.2	11.2	5.0	4.71	4.38	4.69	5.0	4.4	6.3	7.1
100	63	39	22		10	17	23	47	85

70.54	71.44	75.14	78.84	79.74	80.04	79.79	79.14	78.24	77.94
14.1	13.2	9.5	5.8	4.90	4.60	4.85	5.5	6.4	6.7
95	69	50	34	22		11	31	65	100

M.H. RT 2'

STA	+	Π	−	ELEV
		884.64		
29+50				
T.P.	4.84	884.78	4.70	879.94
30+00				
+42	ENT. LT		ENTRANCE RT (DIRT)	
T.P.	10.23	889.90	5.11	879.67
31+00				

M.L.
PK
MR
JT

LT			℄			RT	22
70.54	73.24	78.64	80.16	79.86	80.16	79.94	80.34
14.1	11.4	6.0	4.48	4.78	4.48	4.7	4.3
93	58	37	22		10	40	63
							110.

P.K. ℄ STA 30+00

75.58	74.38	75.18	79.38	79.70	79.94	79.68	79.18	76.98	76.78
92	10.4	9.6	5.4	5.08	4.84	5.10	5.6	7.8	8.0
92	57	45	31	20		11	21	45	71

78.48	80.08	79.58	79.48	79.66	79.58	78.78	78.48
6.3	4.7	5.2	5.30	5.12	5.20	6.0	6.3
63	47	35	20		13	43	90

P.K. ℄ 31+00

83.10	82.30	79.50	79.00	79.24	79.36	79.50	84.60	84.40	83.60
6.8	7.6	10.4	10.9	10.66	10.54	10.4	5.3	5.5	6.3
75	35	22	18	14	21	23	36	56	72

83.50
6.4
100

STA	+	Π	—	ELEV	
		AS 889.90 884.90			
31+58			℄		
+60			10.55	879.35	
T.P.	6.22	886.18	9.94	879.96	
			0.19	885.99	885.96

ML
PK
MR
JT

84.40	85.20	79.40	79.10	79.47	79.40	81.25	83.06
5.5	4.7	10.5	10.80	10.43	10.50	8.65	6.84
71	37	25	19		13	56	100

M.H. Lt 2'

P.K. @ STA 30+00

Top HYD 5TH AVE + 10TH ST NE COR.

Sta	+	π	−	ELEV	
B.M.	4.64	890.60			885.96
23+95			26.29	864.31	
			25.60	865.0	

Top Hyd N.E. Cor of 5th Ave

22.29 Inv 48" RCP Lt 320'

21.60 Ditch

STA	+	$\overline{\Delta}$	−	ELEV.	
BM	2.29	889.55		887.26	
23+75					
✓					
BM			3.58	885.97	885.96

LT

4

6 9.6	7 2.5	7 2.3	7 4.1	7 9.8	8 4.0	8 4.5	8 4.5	8 4.57
20.0	17.1	16.3	15.5	10.8	5.6	5.1	5.1	4.98
200	150	100	80	50	28	20	12	

6 9.5	6 5.9
20.1	23.7
250	300

STRUCTURAL DATA

TYPE

STORM	X	ELECTRIC		WATER			
SANITARY		TELEPHONE		OTHER			

STATION	RIGHT	LEFT	SIZE	CURB BOX INCH CASTING
0+96	14'		10"	

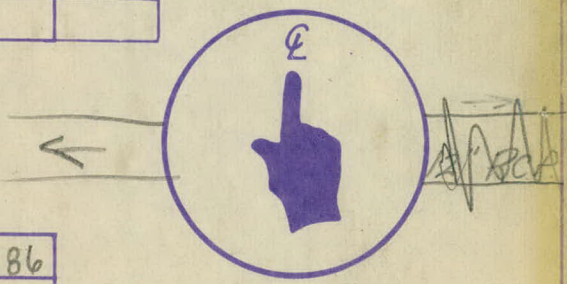
TYPE OF CONST.		COMMENTS
BLOCK	X	
BRICK		
SECTIONAL	X	1' MEXICAN HAT

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	3	3		

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	3.0'	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	3.0'	
ETC.		
INV.		

91.86

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	894.86
FINAL ELEVATION	
DIFFERENCES	
ADJUST	
RECONSTRUCT	

STRUCTURAL DATA

TYPE

STORM	X	ELECTRIC		WATER			
SANITARY		TELEPHONE		OTHER			

STATION	RIGHT	LEFT	SIZE	CURB BOX INCH CASTING
0+96		13'	10'	

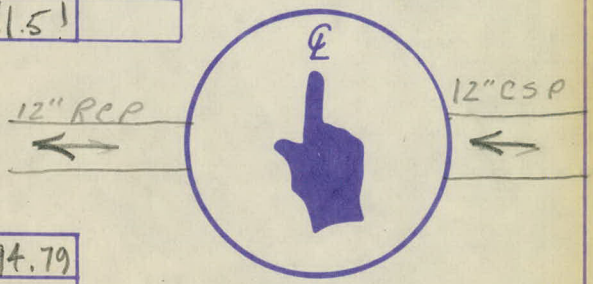
TYPE OF CONST.		COMMENTS
BLOCK	X	
BRICK		
SECTIONAL	X	1' MEXICAN HAT

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS		3		

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	3.2'	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	3.1'	
ETC.		
INV.	891.5'	

91.69

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	894.79
FINAL ELEVATION	
DIFFERENCES	
ADJUST	
RECONSTRUCT	

STRUCTURAL DATA

TYPE

STORM	X	ELECTRIC		WATER			
SANITARY		TELEPHONE		OTHER			

STATION	RIGHT	LEFT	SIZE	
2+66	31'			SURFACE DRAIN INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		CONC. CONE 2'
BRICK		
SECTIONAL	X	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS		7		

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	5.1'	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	5.2'	
ETC.		
INV.		826.9 ✓

SIZES OF ALL PIPES AND DIRECTION OF FLOW

DESIGN

ELEVATION – TOP	887.89
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER	
SANITARY	X	TELEPHONE		OTHER	

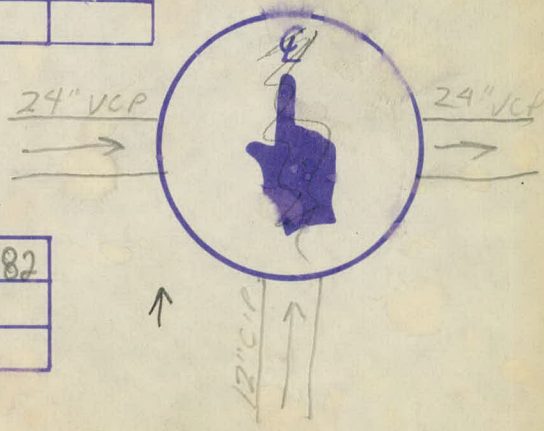
STATION	RIGHT	LEFT	SIZE
2+77	57'		11" INCH CASTING

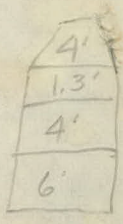
TYPE OF CONST.		COMMENTS
BLOCK		CONC, CONE
BRICK		
SECTIONAL	X	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS		4		

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	ELEV.	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	18.5'	
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW





DESIGN	
ELEVATION – TOP	888.82
FINAL ELEVATION	
DIFFERENCES	
ADJUST	
RECONSTRUCT	

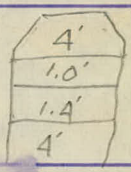
STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER			
SANITARY	X	TELEPHONE		OTHER			

STATION	RIGHT	LEFT	SIZE	
5+00	℄			9" INCH CASTING

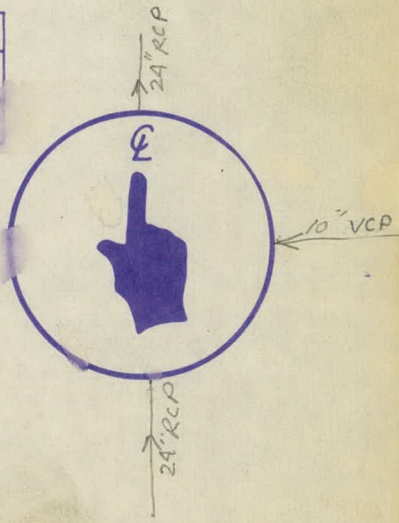
TYPE OF CONST.		COMMENTS
BLOCK		
BRICK		
SECTIONAL	✓	CONC.



ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	X	3		

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	13	75
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	12	.90'
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	883.80
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER	
SANITARY	X	TELEPHONE		OTHER	

STATION	RIGHT	LEFT	SIZE	
6+35	℄			9" INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		
BRICK		
SECTIONAL	X	CONC.

4.3'
1.0'
6.3'

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	X	3		

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	14	ELEV. 3
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW

DESIGN

ELEVATION – TOP	883.98
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER	
SANITARY	X	TELEPHONE		OTHER	

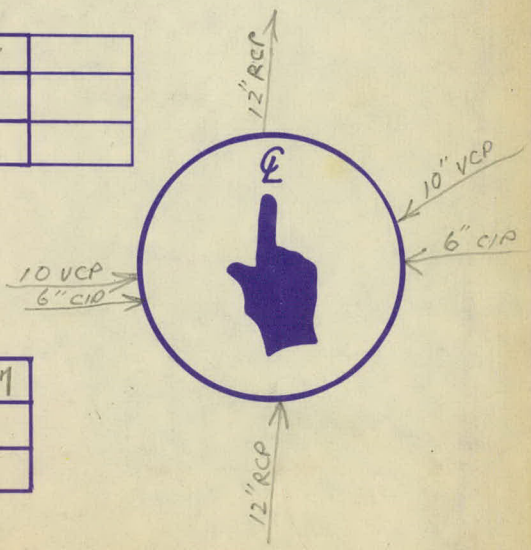
STATION	RIGHT	LEFT	SIZE	
9+56		23'		9" INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK	X	
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	15	2
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	9.2'	
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	886.87
FINAL ELEVATION	
DIFFERENCES	
ADJUST	
RECONSTRUCT	

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER	
SANITARY	X	TELEPHONE		OTHER	

STATION	RIGHT	LEFT	SIZE	
9+57	℄			9" INCH CASTING

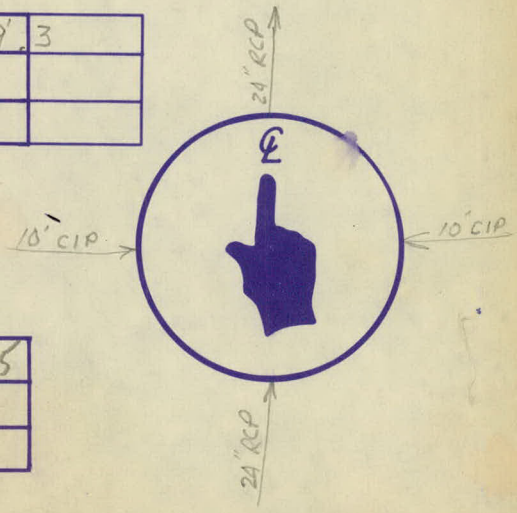
TYPE OF CONST.		COMMENTS
BLOCK		
BRICK		
SECTIONAL		CONC

4.5'
4.0'
6.0'

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	X	3		

	ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	17.0
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	9'.3
ETC.	
INV.	

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	886.05
FINAL ELEVATION	
DIFFERENCES	
ADJUST	
RECONSTRUCT	

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER	
SANITARY	X	TELEPHONE		OTHER	

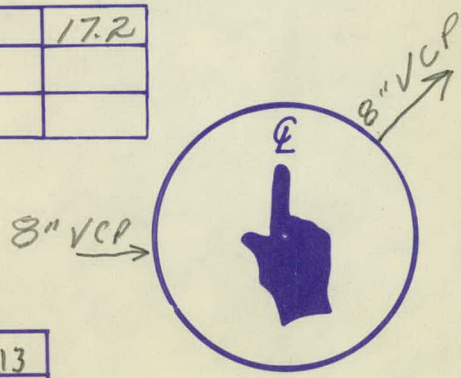
STATION	LEFT	RIGHT	SIZE	
11+16	7			9" INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		
BRICK	X	
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		17.2
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		17.2
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	887.13
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER		
SANITARY	X	TELEPHONE		OTHER		

STATION	RIGHT	LEFT	SIZE	
11+20	2			INCH CASTING

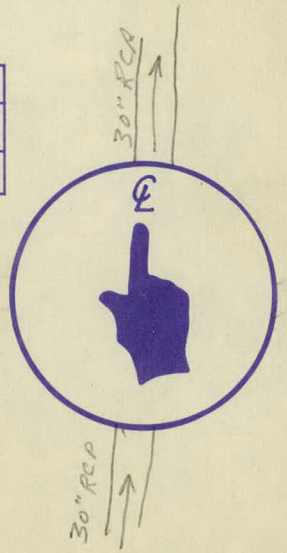
TYPE OF CONST.		COMMENTS
BLOCK		CONC. CONE
BRICK		
SECTIONAL	✓	

4.0'
6.0'
3.5'

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS		4		

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	19.3	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	19.3	
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	887.39
FINAL ELEVATION	
DIFFERENCES	
ADJUST	
RECONSTRUCT	

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER		
SANITARY		TELEPHONE		OTHER	NSP	

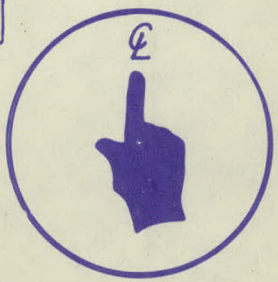
STATION	LEFT	RIGHT	SIZE	
11+41		24		INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		VAULT
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				2 ROWS BRICK
BRICK	X			
CONC. RINGS				9" CASTING

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	887.25
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER		
SANITARY		TELEPHONE		OTHER		

STATION	LEFT	RIGHT	SIZE	
13+46	24			INCH CASTING

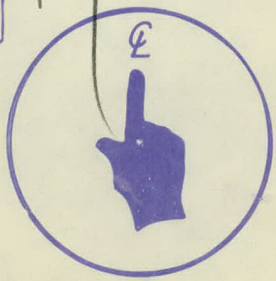
TYPE OF CONST.		COMMENTS
BLOCK		unable to locate J.A. (not there)
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW

N/A



DESIGN

ELEVATION – TOP	
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER			
SANITARY	X	TELEPHONE		OTHER			

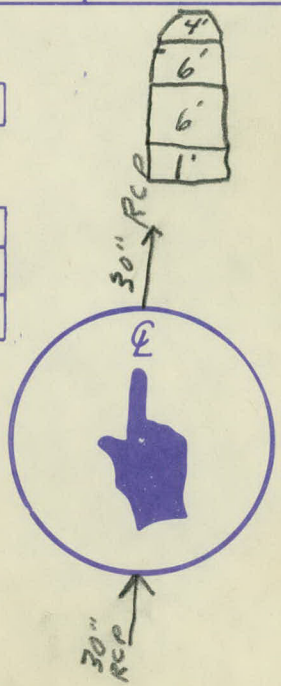
STATION	LEFT	RIGHT	SIZE	
13+42		2'		9 INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		
BRICK		CONC. CONE
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	6			

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		19.7
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

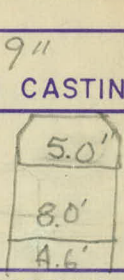
STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER			
SANITARY	X	TELEPHONE		OTHER			

STATION	RIGHT	LEFT	SIZE	
13+44	31'	✓		9" INCH CASTING

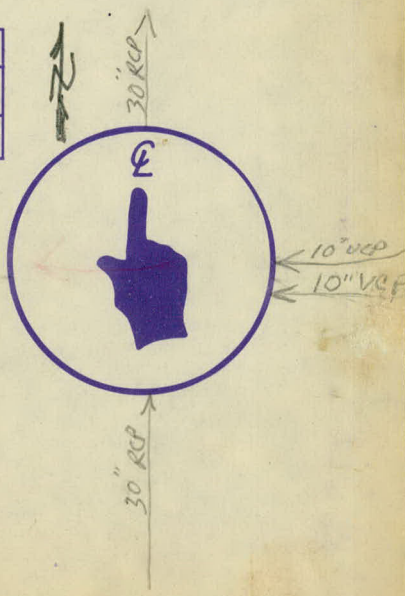
TYPE OF CONST.		COMMENTS
BLOCK		
BRICK		CONC. CONE
SECTIONAL	✓	



ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS		3		

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	19.7	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	11.1	
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	887.16
FINAL ELEVATION	
DIFFERENCES	
ADJUST	
RECONSTRUCT	

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER		
SANITARY	X	TELEPHONE		OTHER		

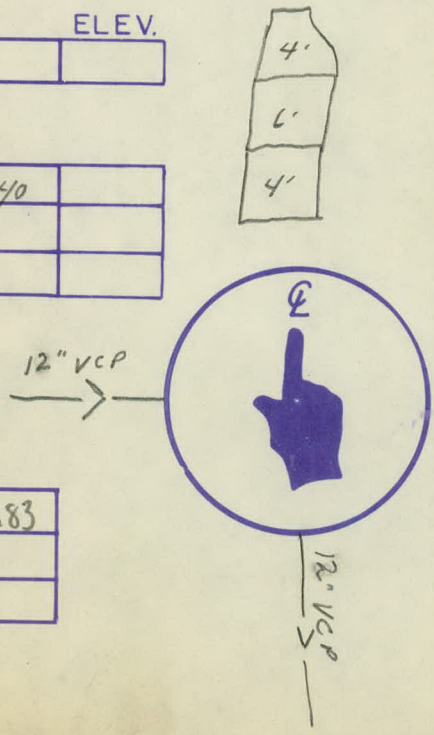
STATION	LEFT	RIGHT	SIZE	
13+51	36			11" INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		ECCENT CONE
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	3			

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	16.40	
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	885.83
FINAL ELEVATION	
DIFFERENCES	
ADJUST	
RECONSTRUCT	

STRUCTURAL DATA

TYPE TCAAP

STORM		ELECTRIC		WATER		
SANITARY		TELEPHONE		OTHER		

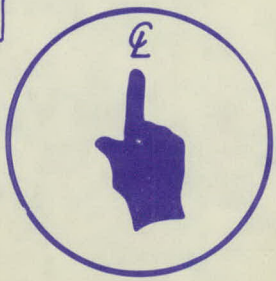
STATION	LEFT	RIGHT	SIZE	
15+28	10			INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		ELEV.
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	887.35
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER			
SANITARY	✓	TELEPHONE		OTHER			

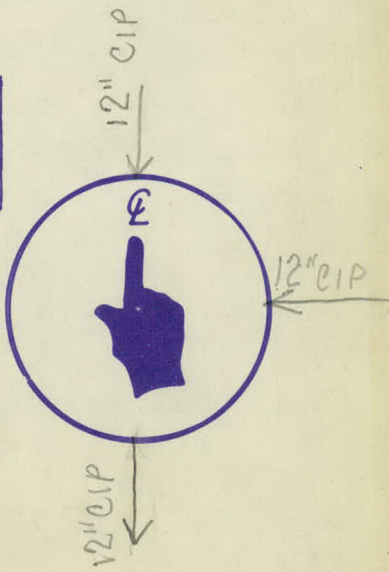
STATION	LEFT	RIGHT	SIZE	
16+10		32'		9" INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK	✓	
BRICK		
SECTIONAL		CONC. CONE

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	2			

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	9.6'	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	9.6'	
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	887.11
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER	
SANITARY	✓	TELEPHONE		OTHER	

STATION	LEFT	RIGHT	SIZE	
16+33	1'			9" INCH CASTING

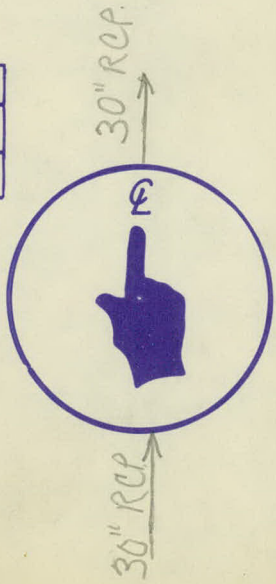
TYPE OF CONST.		COMMENTS
BLOCK		CONC. CONE
BRICK		
SECTIONAL	✓	

5.0'
8.0'
4.5'

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	1			

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	20.1	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	20.1	
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	887.29
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER	
SANITARY	X	TELEPHONE		OTHER	

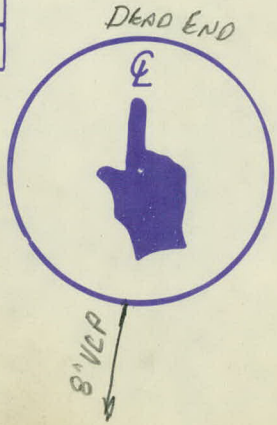
STATION	LEFT	RIGHT	SIZE	
17+23		34		11" INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK	X	
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		8.4
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	
FINAL ELEVATION	
DIFFERENCES	
ADJUST	
RECONSTRUCT	

STRUCTURAL DATA

TYPE

STORM	X	ELECTRIC		WATER			
SANITARY		TELEPHONE		OTHER			

STATION	LEFT	RIGHT	SIZE	
17+85	84			9" INCH CASTING

TYPE OF CONST.	
BLOCK	
BRICK	
SECTIONAL	X

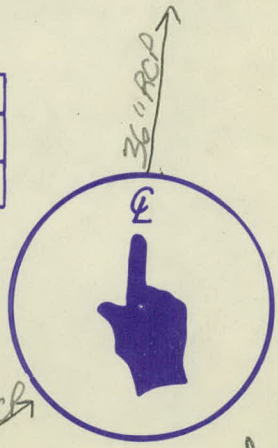
COMMENTS

CONC. CONE

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	/	4		

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		9.95
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	876.16
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

O.K. [illegible]

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER	
SANITARY	✓	TELEPHONE		OTHER	

STATION	LEFT	RIGHT	SIZE	
18+07	℄			9" INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		CONC. CONE
BRICK		
SECTIONAL		

5.0'
8.0'
4.0'

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	4			

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	19.7	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	19.7	
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW

DESIGN

ELEVATION – TOP	886.23
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

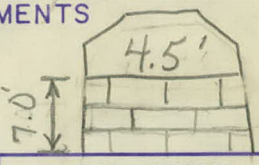
STORM		ELECTRIC		WATER		
SANITARY	K	TELEPHONE		OTHER		

STATION	LEFT	RIGHT	SIZE	
18+71	74'			9" INCH CASTING

TYPE OF CONST.	
BLOCK	
BRICK	
SECTIONAL	

COMMENTS

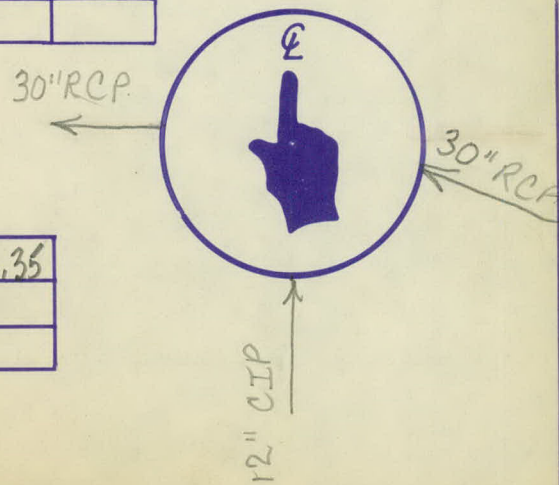
ECCENTRIC CONE



ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK	✓			
BRICK				
CONC. RINGS	1			

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	11.6'	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	11.6'	
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	876.35
FINAL ELEVATION	
DIFFERENCES	
ADJUST	
RECONSTRUCT	

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER	
SANITARY		TELEPHONE		OTHER	

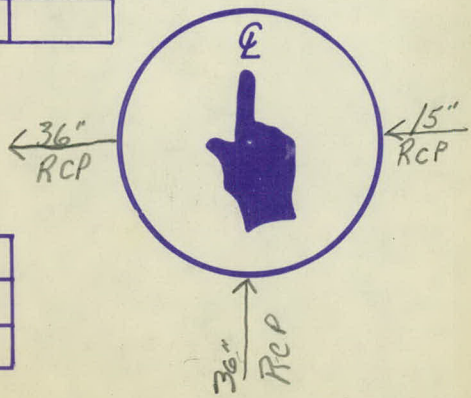
STATION	LEFT	RIGHT	SIZE	
19+70	LT 42'			11" INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		
BRICK		
SECTIONAL	X	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	O			

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		ELEV. 19.6
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	885.75
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER		
SANITARY		TELEPHONE		OTHER		

STATION	LEFT	RIGHT	SIZE	
19+70	52			INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		
BRICK		
SECTIONAL	X	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	3			

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		ELEV. 20.0
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW

DESIGN

ELEVATION – TOP	885.75
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER			
SANITARY		TELEPHONE		OTHER	✓ TCAAP		

STATION	LEFT	RIGHT	SIZE	
20+17	13'			INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW

DESIGN

ELEVATION – TOP	
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM	X	ELECTRIC		WATER			
SANITARY		TELEPHONE		OTHER			

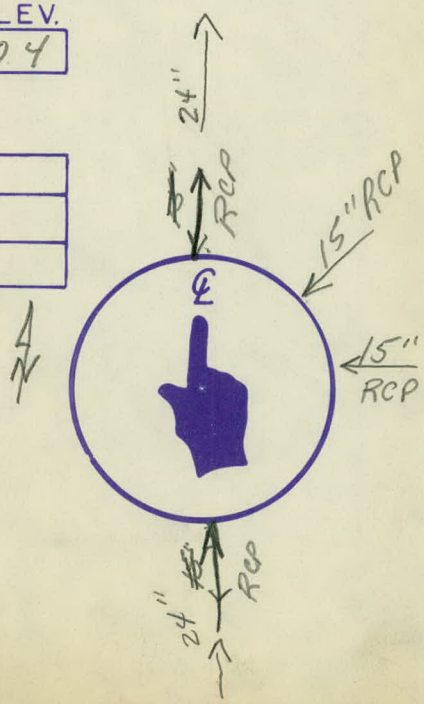
STATION	LEFT	RIGHT	SIZE	
21+77		44		9" INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK	X	
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				None
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		ELEV. 104
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.	874.40	

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	884.80
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER			
SANITARY	X	TELEPHONE		OTHER			

STATION	LEFT	RIGHT	SIZE	
21+83		42		9" INCH CASTING

TYPE OF CONST.	
BLOCK	
BRICK	
SECTIONAL	X

COMMENTS

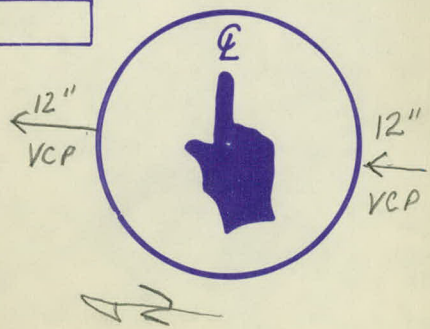
4'
4'
6'

ECC.
CONE

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	2			

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		ELEV. 16.7
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	984.41
FINAL ELEVATION	
DIFFERENCES	
ADJUST	
RECONSTRUCT	

STRUCTURAL DATA

TYPE

STORM	X	ELECTRIC		WATER		
SANITARY		TELEPHONE		OTHER		

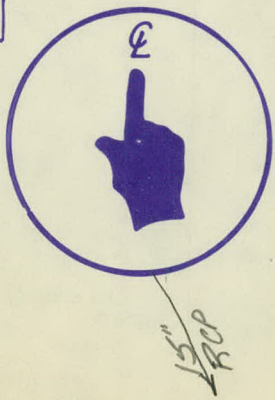
STATION	LEFT	RIGHT	SIZE	
22+07		30		9" INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK	X	SURFACE DRAIN
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK	X			
CONC. RINGS				

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		2.8
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	883.69
FINAL ELEVATION	
DIFFERENCES	
ADJUST	
RECONSTRUCT	

STRUCTURAL DATA

TYPE

STORM	X	ELECTRIC		WATER			
SANITARY		TELEPHONE		OTHER			

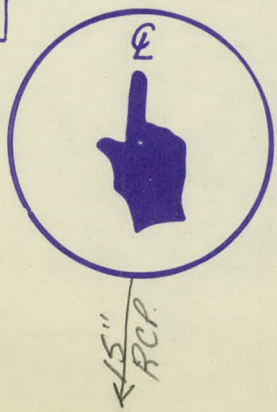
STATION	LEFT	RIGHT	SIZE	
22+09		42		11' INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		C.B.
BRICK	X	
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		ELEV. 3.7
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	883.94
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER	
SANITARY		TELEPHONE		OTHER	

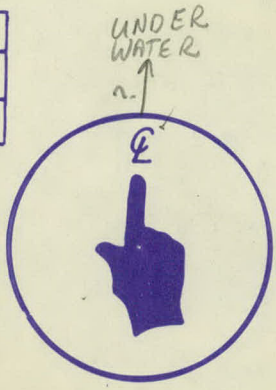
STATION	LEFT	RIGHT	SIZE	
24+67		29		INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK	x	C.B.
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		ELEV. 29
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	883.09
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM	X	ELECTRIC		WATER		
SANITARY		TELEPHONE		OTHER		

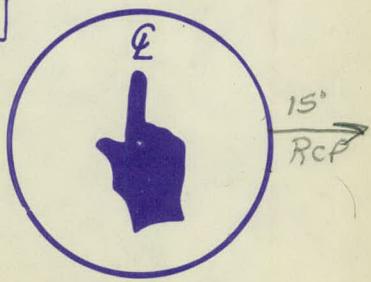
STATION	LEFT	RIGHT	SIZE	
24+71	30			INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		G.B.
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		ELEV. 28
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	883.09
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM	X	ELECTRIC		WATER	
SANITARY		TELEPHONE		OTHER	

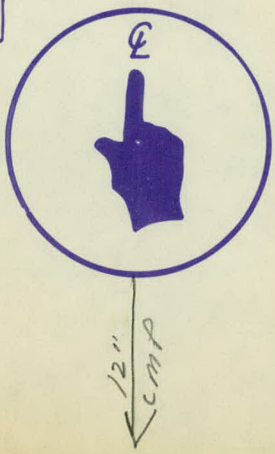
STATION	LEFT	RIGHT	SIZE	
24+72	82			INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK	X	C.B
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		ELEV. 2.9
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



UNABLE TO FIND ARROW

DESIGN

ELEVATION – TOP	882.41
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

STORM	X	ELECTRIC		WATER		
SANITARY		TELEPHONE		OTHER		

STATION	LEFT	RIGHT	SIZE	
25+18	82			INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK	X	C.B.
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		ELEV. 1.5
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW

DESIGN

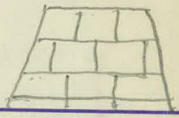
ELEVATION – TOP	882.40±
FINAL ELEVATION	
DIFFERENCES	
ADJUST	
RECONSTRUCT	

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER	
SANITARY	✓	TELEPHONE		OTHER	

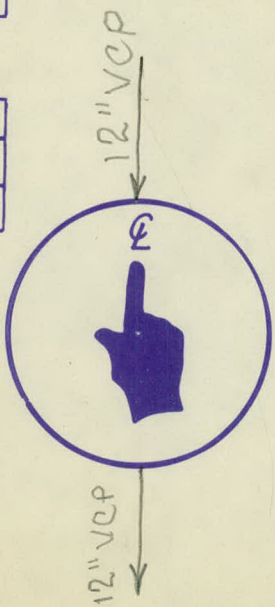
STATION	LEFT	RIGHT	SIZE	
25+40		5'		9" INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		CONC. CONE
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	—			

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	15.9'	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	15.9'	
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	883.39
FINAL ELEVATION	
DIFFERENCES	
ADJUST	
RECONSTRUCT	

STRUCTURAL DATA

TYPE

STORM		ELECTRIC		WATER	
SANITARY		TELEPHONE		OTHER	

STATION	LEFT	RIGHT	SIZE	
25+48		18		INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		NSP M.H.
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		ELEV.
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW

DESIGN

ELEVATION – TOP	883.56
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

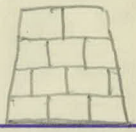
STORM		ELECTRIC		WATER		
SANITARY	✓	TELEPHONE		OTHER		

STATION	LEFT	RIGHT	SIZE	
26+70		6'		9" INCH CASTING

TYPE OF CONST.	
BLOCK	
BRICK	
SECTIONAL	

COMMENTS

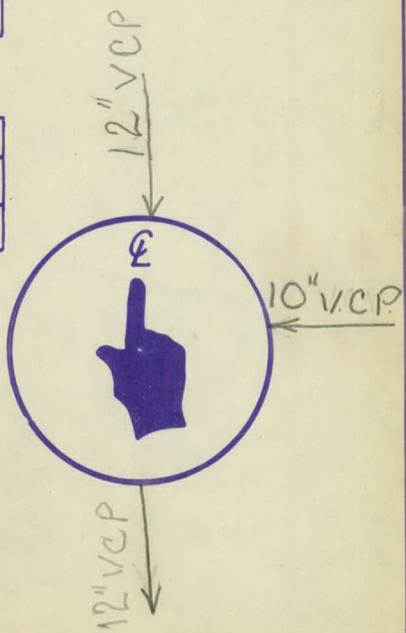
ALL BLOCK CONST.



ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK	✓			
BRICK				
CONC. RINGS	3			

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	13.7	ELEV.
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	13.7	
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	881.94
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

STRUCTURAL DATA

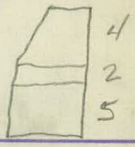
TYPE

STORM	✓	ELECTRIC		WATER	
SANITARY		TELEPHONE		OTHER	

STATION	LEFT	RIGHT	SIZE	
28+25		24	7	INCH CASTING

TYPE OF CONST.	
BLOCK	
BRICK	
SECTIONAL	✓

COMMENTS



ADJUSTING RINGS	TYPE	NO.	DEPTH
BLOCK			
BRICK			
CONC. RINGS	✓	6	12"

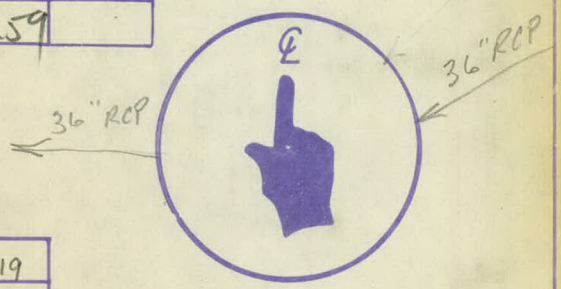
COMMENTS

No Mortar

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	12.	6
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	12.	6
ETC.		
INV.	67.59	

+ 0.19
- 5.95
15.9

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	880.19
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT

$$
\begin{array}{r}
977.02 \\
855 \\
\hline
968.47 \\
96 \\
\hline
969\ 3 \\
918 \\
\hline
960.25
\end{array}
$$

Manhole Elevation

10th St 28+25 R+24'

Sta	+	Π	−	Elev	
B.M.	0.18	886.14			885.96
			5.95	880.19	

Top Hyd 5th N.E. & 10th St N.E. Cor

Top MH Storm Sewer.

1.5

10TH ST. N.W.

PROPOSED PONDING AREA
BTWN 10TH ST., I.T.H. 694
& SERVICE DRIVE

71°34'35" P.I. to P.T.

CREW: R.M. May 20, 1980
P.K. 75°
P.O.

Sta.	+	5.2 H.I. Dist.	− Azim.	Elev.
B.M.	9.02	892.57		883.55
P.I.:		141.92	0°00'	
℄ Rd		207	292-10	
fence corner		202	282-42	
℄ Rd		225	279-25	
"		210	262-29	
"		225	246-42	
"		280	233-53	
"		384	227-47	
fence		383	225-21	
Inv. Culvert		275	230-41	
fence		213	243-25	
"		192	264-16	
"		150	294-33	
"		100	314-20	
end fence		55	6-56	
edge ramp prmt.		50	31-06	

Vert.	Rod	Elevation
Spike in P.P. 10th St. sta. 4+41 Lt. 27'		
	4.02	888.55
	8.65	83.92
	9.75	82.82
	9.0	83.57
	9.00	83.57
	9.10	83.47
	9.25	83.32
	7.25	85.32
	6.9	85.67
	9.7	82.87
	8.6	83.97
	8.7	83.87
	11.7	80.87
	9.8	82.77
	3.9	88.67
	2.5	90.07

	Dist	Azm.
edge ramp pvm't.	22	90-09
"	29	169-27
"	94	208-31
"	189	215-04
"	280	217-13
"	390	218-22
Beehive C.B.	383	220-48
toe	331	221-47
Inv. 18" Culvert	270	223-24
Inv. 12" C.M.P. Culvert	267	225-44
East edge ditch	237	228-08
"	202	236-18
Inv. 18 C.M.C. Culvert	169	250-55
E. edge ditch	153	261-19
"	160	280-10
Inv. 18" C.M.C. Culvert	163	285-16
W. edge ditch	154	278-59
"	145	261-02
"	160	247-58

Rod	Elevation
2.1	890.47
3.0	889.57
5.1	86.87
8.9	83.67
13.0	79.57
16.8	75.77
18.3	74.27
16.6	75.97
20.2	72.37
19.2	73.37
19.7	72.87
19.3	73.27
18.8	73.77
18.7	73.87
18.3	74.27
18.6	73.97
18.6	73.97
18.8	73.77
18.9	73.67

Top Culvert = 18.6 873.97

Top Culv. = 17.1 875.47

	Dist.	Azm.		
W. edge ditch	206	231-16		
"	240	224-56		
top ditch	180	226-57		
"	137	243-44		
"	123	263-55		
"	135	287-54		
G.E.	90	301-58		
Inv. 12" Culvert	56	328-21		
toe slope	25	309-11		
"	68	246-41		
"	146	230-49		
apple tree	72	271-21		
top slope	311	218-50		
"	268	218-28		
"	180	217-07		
"	94	213-43		
"	21	180-39		
"	29	51-10		
	+		−	
B.M.	892.57		9.06	883.51

Rod	Elevation
19.3	873.27
19.5	73.07
14.8	77.77
14.5	78.07
14.8	77.77
14.5	78.07
13.2	79.37
10.9	81.67
10.4	82.17
12.5	80.07
13.9	78.67
12.8	79.77
14.3	78.27
12.7	79.87
8.8	83.77
5.4	87.17
2.9	89.67
2.5	90.07

Top Calv.
= 9.6
882.97

STRUCTURAL DATA

Beehive

TYPE

STORM	X	ELECTRIC		WATER			
SANITARY		TELEPHONE		OTHER			

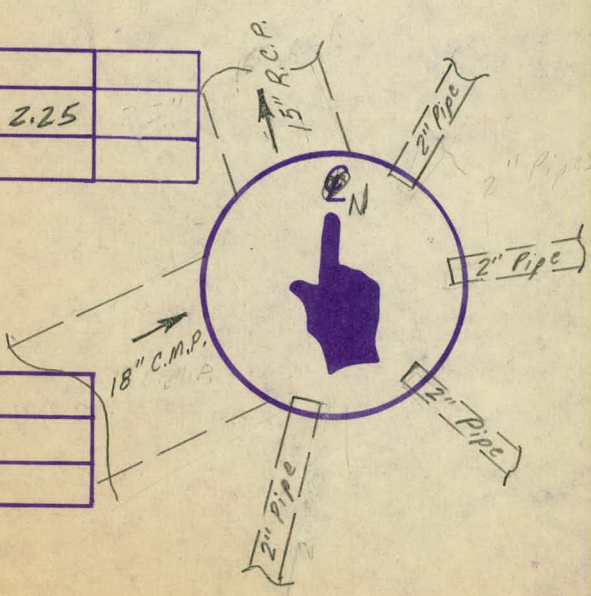
STATION	RIGHT	LEFT	SIZE	
			9	INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK	X	
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		ELEV.
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.	2.25	
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN		
ELEVATION – TOP		
FINAL ELEVATION		
REFERENCES		

ADJUST

RECONSTRUCT