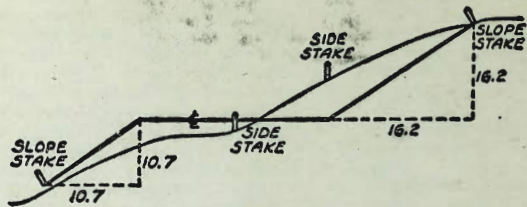


G-363



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

MICROFILMED

APR 16 1965

DIRECTIONS FOR USE OF TABLES

TABLE No. XIV

Distance of slope stake from side or shoulder
stake for any width roadway, slope 1% to 1.
If ground is nearly level, the cut or fill

IMPROVED TABLES
AND
INFORMATION

TABLE No. VIII

To find Tangent and Length for curve of
any other degree, divide by degree of curve and
add correction found in column of correction
Factor of curve without given T may be found
by dividing tangent for external angle by
given tangent (by external).
The distance from a point on the tangent to
the curve is very nearly the square of the tangent
length divided by twice the radius.

50
49
48
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coll
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cut
If I

PAGES	INDEX	DATE
	(Drains Cont'd from G-361)	
1-2	STORM DRAINS @ PENDLETON & GARNET	3-22-56
3	STORM DRAIN @ GARNET & NOYES	3-22-56
4-13	GRADES NOYES ST.; GRAND TO GARNET	6-27-56
14-30	GRADES NOYES ST.; DIAMOND TO BERYL	
31-39	SEWER GRADES ACADEMY, BERYL & NOYES	6-20-56
40-42	PAVING GRADES BERYL ST.; ACADEMY TO NOYES	
43-55	GRADES NOYES ST.; GARNET TO DIAMOND ST.	6-21-56
56-60	GRADES MISSOURI ST. NOYES TO OLNEY ST.	
61-67	GRADES NOYES ST.; REED TO GRAND AVE	

Ref DW 95. 2899-2900-D

FB-2162

3-22-56

①

Stamped
Huffman
Blunt
Kelley

74'-30" RCP DRAIN FROM SE. RET. @
PENDLETON & GARNET. THENCE NLY

Contd. from G-361

C016	C0.99	C819
37.19 ✓	37.19 ✓	37.19 ✓
37.03	36.20	29.00
Top Ch.	Gut.	F.L.

78' ±
0+74 = E Type B-2 C.O.

0+50

C6.63
35.30 ✓
28.67 ✓

0+25

1.35-070

C6.77
35.11 ✓
28.34
10'

0+00 = E Type "F" C.O. (see G-361)

34.30	28.00
Top C.O.	F.L.

T.B.M.
B.M.

37.72
36.65

(Set chisel cross)
20' RP to 7x7' C.T. Nly of N.W. Cor. Pendleton & Garnet
N.W. BP. Pendleton & Garnet

66'-18" RCP FROM N.W. BC. TO N.E. BC. CB
RET'S @ PENDLETON & GARNET

0+66 = E Type B-2 Cb Inlet

		C 5 06
		7.06
37.03	36.20	32.00
Topcb.	Gut	Inlet 18"
		from W.
		RP 10' Lt. Set PK.
		C 4 8 5
		7 18 ✓
		32.33 ✓
		RP 10' Lt.

0+44

1.51 0/0

0+22

		C 4.63 ✓
		7 30
		32.67
		RP 10' Lt.

0+00 = B.C.N.W. Cb. Ret. = E Type A-2 C.O.

	C 0 50	C 1.33	C 4 12
37.12 ✓	37.12 ✓	37.12 ✓	
36.62 ✓	35.79	33.00	
Topcb.	Gut	F.L.	
			RP 10' Lt. @ 90° To
			Garnet.

3-22-56

18" RCP NLY CB LINE GARNET & NOYES

Ref States 10' Rt.

See G-361 for End Inlet.

= 0+13.25 NE P Noyes & Garnet

0+63 = ~~E~~ Type B-2 Ch. Inlet @ NE Cor

C 0.95 C 0.12 C 8.10

59.60 59.60 59.60

58.63 59.48 51.50

Gut. Top Ch. Fil.
stub 10' Lt.

C 8.95

60.28

51.33

chis 10' Lt

0+42

0.793%

C 9.31

60.48 v

51.17

P.K. 10' Lt.

0+21

C 10.15

61.15 v

51.00 v

Inlet 18"

0+00 = ~~E~~ Existing Drain @ NW Cor.

Noyes & Garnet

P.K. Nail

10' Lt.

T.B.M.

62.17

N.W. 7x7' ct.

B.M.

62.02

N.W. BP Noyes & Garnet

Ref DW 9311954-64-L
 FB 2342-70
 " 2150-10 LT

6-27-56

Stamper
 Hoffman
 Blunt
 Kelley

(2)

RT

Curb

Rough

Curb

PAVING GRADES NOYES ST. GRAND AVE TO

GARNET ST. W.O. 32103

Curb Curb
 Rough (0.43

LO.42

0+75

40.72 40.72

.074

40.32 40.32

TP

43.33

(3.83 (0.45

(0.86 (3.47

0+50

3.66 0.28
 39.83 39.83
 5'6k

0.29 2.87
 39.43 39.43
 3'6k

(0.26

(0.48

0+30

9.37
 39.11 39.11

9.19
 38.71 38.71

(1.60 (0.24

(0.40 (4.02

cb. R=30' L=10.20

0.00 8.36

0+10 = E.C. Cb.

38.40 38.40

38.20

8.40 2.02
 38.00 38.00

Ret's Lt & Rt.

5'6k

6'6k

T.B.M.

44.78

R.P. Disk To ϕ Mon. 50' Wly of
 Nly 7' Mon. Balboa & Noyes

0+00

7.90
 38.05 38.05

37.65 37.65

T.B.M.

-6.96 36.10

P.K. ϕ Noyes & Grand.

TP +2.57 43.06 -11.12 40.49

TP +0.26 51.61 -12.37 51.35

B.M +0.55 63.72

63.17

P.K. in Conc. Bik Wall N.W. Cor Garnet
 & Noyes

Lt
E
Rt
 Curb Curb Gut Gut Curb Curb
 Rough Rough

$d=4=110^{\circ}45'19''$
 P.O.C
 C³⁴ C⁹²
 3.24 3.24
 42.90 42.90 42.32

$C-3^{\circ}66.Cb=11.00'$
 12.31
 $d=70^{\circ}30'43''$ C 1.73 C 1.02
 $Cb.P=30'1=36.92'$ 4.37 3.16
 $1+25^{\circ}61'-B.C.S.W.Cb.$ 42.64 42.14
 Ref Balboa Ave
 $d=57.29578$

E.C. +18
1+35
42.58 C 0.11
RR.5'N. 2.25
E Alley & Noyes 42.14
Cb
C 1.87 C 1.22
4.22 4.22
42.35 42.50 42.50

E.C. Alley
12.51
42.58 C 0.11
RR.5'N. 2.25
E Alley & Noyes 42.14
Cb
C 0.46
2.60
42.14 42.14

$1+23=BC.S.F.$
 Alley Ref. Cb.P. 2'
12.43
42.58 C 0.22
RR.5'N. 2.25
E Alley & Noyes 42.03
Cb
C 0.57 C 1.65
2.60 3.68
42.03 42.03

$1+00$
2.45 C 0.23
4.06 1.84
41.61 41.61
5'
C 0.39 C 3.29
1.60 4.50
41.21 41.21
2'6"

GRADES NOYES ST.

Rough
Curb Curb

Lt.
Gut

E

Rt

Gut. Curb Rough
Curb

Cb. R=30' L=36.92
1+48.00=BLSE
Cb. Ret Balboa.

FO¹³

~~CO⁰⁹~~

CO⁷⁰

290
43.03
Cb.

~~43~~

~~8.12~~
~~43.03~~

3.73
43.03

BL+18'=R.

FO¹⁰

FO⁶⁰

2.72
42.82

2.72
43.32

43.32

18'

B.C. Alley

FO²⁰

~~CO⁰⁷~~

276
42.96

~~3.03~~
~~42.96~~

42.96

TP. 43.25

1+47=EG.N.E.
Alley Ret. Cb. R=2'

FO²⁹

~~CO⁰³~~

276
43.00

~~3.03~~
~~43.00~~

43.00

def⁴=35°15'22"
P.O.C. R.

43.25 .26 .62
43.25 42.65

12.31

CO.27 CO.84

def=23°30'03"
P.O.C

3.37 3.37
43.10 42.53

12.30

GRADES NOYES ST.

	Corb Rough	Lt Corb	G	€	Rt G	Corb	Corb Rough
$\Delta = 30^\circ 00' 31''$ P.O.C. $\frac{2}{3}$	45.95	60.22 6.17 45.95	60.72 6.77 45.45				
10.47' $d = 85.94367$ At Ctr. $0^\circ 00' = N. 40' out$ $L = 31.42'$ (from €)							
2+70.99 - 40' Lt = Ctr. 20' Cb.R. N.W. Balboa. S.W. Hornblend	46.29 (Meet)	6.30 46.29	5.84 45.79				
2+085 - 95' Rt. € 8" H ₂ O Valve Out To € = 40.98 € N. To W = $102^\circ 37'$ 2+11.09 = € Balboa					46.39 42.74 95 Top Stem	43.30	43.30 43.8
2+035 - 58' Rt € 8" H ₂ O G.V. $def = 35^\circ 15' 22''$ P.O.C. €					46.15 42.72 58 Top Stem	43.30	43.30
2+00 - 10' Rt. Water Valve 8" 12.31					45.96 42.52 102 Top Stem		
$def = 23^\circ 30' 03''$ P.O.C.						43.28	43.28
12.31							
$def = 11^\circ 45' 19''$ P.O.C.							
12.30 C-3° b b Cb = 10.99'							

GRADES NOYES ST.

	Curb Rough	LT Curb	G
$\Delta = 28^\circ 55' 05''$ P.O.C. 10.7'			
$\Delta = 86^\circ 45' L = 32.10'$ $\Delta @ \text{ctr. } 0^\circ 00' = N 14.262$ (on P.L. 40')			
$R = 89.79 - A = 20' R =$ $\text{ctr. } 21.2' R. =$ E.C. + 0.5'	44.46	44.46	
$\Delta = 77^\circ 23' 00''$ E.C. Balboa. 9.01'	44.46	44.46	43.79
$51^\circ 35' 20''$ P.O.C. 9'	44.70	44.70	44.09
$25^\circ 47' 40''$ P.O.C. $1/3$ 9'	44.94	44.94	44.31
$R = 20' L = 27.01'$ B.C. $\Delta = 77^\circ 23'$	45.18	45.18	44.57
4.5' Tan. $\Delta = 60^\circ 15''$ E.C. $\Delta = 90^\circ$	45.30	45.30	44.70
10.47'			
$\Delta = 60^\circ 1/3$ 10.48	45.67	45.67	45.10

E

7-26-36 #

(8)

Chgd. Curb	Curb	Curb Rough
0.26	1.48	
46.36	7.50	
46.30	46.02	46.02
0.34	1.89	
47.39	8.94	
47.05	47.05	47.05

RP 12' bb
RP 6' bb.
Cb face on
Line Only Ely. Inside face

GRADES NOYES ST.

LT
E
RT

Curb
G
Chgd. Curb
G
Curb

3+20.99 on Rt. only

4.78
 1.98
 47.20

4 = 86° 45'
P.O.C. R. Balboa

40.72
 45.27
 44.55

C 2.02
 6.07
 44.05

10.7'
4 = 57° 50' 11"
P.O.C.

40.51
 45.31
 44.80

C 1.45
 5.63
 44.18

10.7'
4 = 78° 55' 22"
P.O.C.

40.42
 45.57
 45.15

C 1.43
 5.75
 44.32

10.7'
4 = 86° 45' 11"
B.C.L = 32' 10"
R = 21.20'

40.55
 45.85
 45.30

C 1.46
 5.91
 44.45

4th Tot
4 = 86° 45' 16"
E.C. = 32' 10"

44.32
 40.35
 45.90
 45.55

44.32
 C 1.69
 6.34
 44.65

10.7'
4 = 57° 50' 11"
10.7'

40.05
 45.95
 45.90

C 1.26
 46.48
 45.22

GRADES NOYES ST.

Lt

⊕

Rt

(10)

curb Curb

G

G

Curb

Curb

def Rt. 35°15'21" .37
P.O.C. 47.30

def Lt. 31°46'14"
8.66 etc C 3% bk = 7.77
8.31 Lt

C0.34

def Rt. 26°59'45" 7.82
P.O.C. 47.48

def Lt. 23°50'06"
9.42 Rt
8.32 Lt

C0.32

def Rt. 18°00'01" 8.12
P.O.C. 47.80

def Lt. 15°53'24"
9.42 Rt
8.32 Lt

C0.47

def Rt. 9°00'18" 8.66
P.O.C. 48.25

def Lt. 7°56'42"
9.93 Rt C 3% bk = 8.45
8.32 Lt C 3% bk = 7.46

C5.43

C0.24

4 Rt = 70°30'43" 4.28
0+10 = E.C. Co. 48.85

9.09
48.85

Refs. Lt & Rt. CoR = 30
d = 57.29578
4 Lt = 63°32'28"

= 0+00
3+50.99 = Nil
Line Horizontal

48.23

47.80

47.80

48.21

47.80

48.25

48.25

C1.41

9.61
48.25 ✓ 48.20

C1.38

9.30
47.92 ✓ 47.92

C1.02

9.00
47.98 ✓ 47.98

C0.75

9.03
48.28 ✓ 48.28

C0.39

C5.87

9.19
48.80 ✓ 48.80

5'

GRADES NOYES ST.

①

	Lt		±	Rt		
	Rough Curb	Curb		Curb	Rough Curb	
Cb. R=4'	C 2.90	C 0.76			F 0.45	C 0.75
✓ 1+22 ^{0.5} = B.C. SET	8.07	5.93			4.59	5.79
S.W. Alley Ret's	55.17	55.17	55.10		55.04	55.04
	5'					5'
		F 0.01			F 0.07	
1+06	54.35	4.34 54.35	54.31		4.19 54.26	54.26
	C 3.51	F 0.13			C 0.08	C 2.25
✓ 0+86	6.77	3.13			3.31	3.48
	53.26	53.26	53.25		53.23	53.23
	0.0					5'
		F 0.11			F 0.12	
0+66	52.13	2.02 52.13	52.12		2.00 52.12	52.12
TP.	C 4.56	C 0.20	55.70		C 0.18	C 4.36
✓ 0+46	5.50	1.14 TP			1.12	5.30
	50.94	50.94	50.94		50.94	50.94
						5'
		C 0.44			C 0.36	
0+20	49.43	9.87 49.43	49.42		9.78 49.42	49.42

GRADES NOYES ST.

(12)

Lt

E

Rt

Rough
Curb Comb

G

G CURB Curb

	Rough Curb	Comb	G				G	CURB	Curb
		(0.18)						(0.30)	
		7.40						7.25	
1+66	57.26	57.26				57.10		56.95	56.95
		1.83	(2.33)				(0.33)	F0.17	
+16' Rt = R		8.51	8.51				6.38	6.36	
BC+13' Lt = R	56.68	56.68	56.18				56.03	56.53	56.53
		(0.31)						(0.43)	
		6.73						6.64	
B.C. Alley	56.42	56.42						56.21	56.21
		(2.14)	(0.21)					(0.35)	F0.09
Ch. R = 4'		8.63	6.73					6.64	6.20
1+50.05-EC NE	56.52	56.52			56.40			56.29	56.29
W NW Alley Rets									5'
		(2.15)						(0.34)	
EC+16' Rt = R		7.86						5.97	
EC+13' Lt = R	55.71	55.71	55.71					55.63	55.63
		(0.48)						(0.72)	
		5.93						4.59	
E.G. Alley	55.45	55.45			55.77 RP. 5' N. E Alley + E Noyes			55.31	55.31

GRADES NOYES ST.

Lt

±

Rt

Curb Curb
Rough

Curb Curb
Rough

B. M

63.18 ~ 63.17 (see Pg. 4)

Cb. R = 20'
2 + 62.11 = B.C.
S.E. & S.W. Ch. Ret's
Garnet St.

C1.14 FO⁰⁹
2 09 0 91
60.95 60.95
0'

60.58

CO⁴⁰ CO.67
0 10 0 37
59.70 59.70
0'

2 + 34.08

C1.52 Grade
1 46 9 94
59.94 59.94
2'

59.62

CO⁷³ C1.07
9 77 0 11
59.04 59.04
2'

2 + 06

CO⁴⁰
9 34
58.94 58.94

58.67

CO.51
8 90 TR
58.39 58.39

TP

59.71

1 + 86

C1.52 CO¹²
9 66 8 26
58.14 58.14

57.93

CO.54 CO⁰⁸
8 26 7 80
57.72 57.72
0.0

GRADES NOYES ST.; DIAMOND TO BERYL

	LT.	RT.	
	Curb	Rough Curb	Curb
C3°bb=11.92' 13.36			
		C0.74	
def A=90°44'25" P.O.C. 1/4	89.12	9.86 89.12	C0.83 90.55 89.72
C3°bb=9.13' 10.20'			
A=70°30'43" Cb.R=30 1/2=36.92' V0+10=EG.Cb Rets Lt+Rt.	C6.09 6.25 90.16 5	C0.37 0.53 90.16	C0.76 1.43 90.67
			90.41
0+00=N. h. Diamond St	89.00	89.00	89.20
0-20		87.50 49'	F0.97 86.60 87.57 Lipline N/y
			C0.02 87.65 87.63
			F0.42 87.64 88.06 Lipline N/y
			88.55 40'
V0-30	87.51 49'	87.51 49'	87.51 49'
			87.73
			88.44 40'
TP.			88.44 40'
B.M. TP.		87.59 89.90	E.L. & T.K. Diamond & Noyes

NOYES ST.

Curb
Rough

Curb

Lt.
G

€

et

Curb

Curb
Rough

1+05

101.18

C0.50
1.68
101.18

101.50

0.59
C1.73
02.95³⁶
101.82 101.82

✓ 0+85

C1.89
1.98
100.09
5

F0.65
9.94
100.09

100.44

C0.43 C3.50
01.21 04.28
100.78 100.78
5

0+65

97.79

F0.85
6.94
97.79

98.12

C0.51
8.96
98.45 98.45

0+60 = W. Lat on Lt.

2^d Lt = € Riser

C5.83
9.80
93.97
5

F1.32
95.89
97.21
cb
RP.2'S

97.21
RP.2'N

94.26

C0.66 C6.41
5.22 0.97
94.56 94.56
4

4 = 71°26'52" = € Type "G"
Cb. Inlet. RP.10'bk
Cb. fce

C1.44
89.50
88.06

C2.27
89.50
87.23
C1.08
89.15
87.24

C0.05

87.24
87.24

4 = 88°04'57"
P.O.C. End. Cb. Inlet
(Type "G") on Lt.

88.07

88.07
RP.5'bk Cb
RP.10'bk
Cb

88.07
87.24

C4.00 C9.01
93.05 98.06
89.05 89.05 89.05

17.42' Inlet.
def = 27°24'23" Lt. Beg. in Cb.
def = 35°15'21" Rt.
F.O.C. R. Rt.

88.05

C2.58
90.63
87.22
C3.41
90.63
87.22

F0.26

88.05
87.22

C1.41 C3.26 C2.97
90.46 92.31 92.02
89.05 89.05 89.05

6.56 Lf.
1336 Rt.
def = 22°29'53"
POC

88.28

C1.49
9.77
87.55

1336'

		Lt		€	Et (16)		
	Curb Rough	Curb			G	Curb	Curb Rough
NOYES ST.							
BC+18' = R.					C1.23 6.87 105.64	C0.73 6.87 105.14	106.14
18'							
B.C. Alley						C0.15 5.93 105.78	105.78
1+46 ⁸⁸ = F.C. NE. Alley Ret	C0.47 5.72 105.25 5	C0.12 5.37 105.25		105.56		C0.05 5.93 105.88	C1.06 6.94 105.88 5
EC+18' = R.					C1.48 5.68 104.20	C1.31 5.68 104.37	104.37
18' Tan			1+35				
E.C. Alley						C0.48 4.49 104.01	104.01
Cb. R = 21 1+22.88 = BC. SE Alley Ret	C0.87 3.98 103.11 5	C0.27 3.38 103.11		103.44		C0.74 4.49 103.75	C2.30 6.05 103.75 5
TP			104.95				

Lt

±

Rt.

Curb
Rough

Curb

Curb

Curb
Rough

NOYES ST.

def = 9' 4 1/2" 25"
P.O.C.

CO⁰¹
1.47
111.40 111.40

C3⁰⁶ = 9.13'
10.20
L = 47.12'
Cb. E = 30' 4" = 90°
2 + 59.76 = B.C.
SE. cb Ret + Missouri St.

FO⁵⁷ CO²⁰
10.43 1.20
111.00 111.00
5

110.03

CO⁰⁸ C1²⁰
11.08 2.70
111.00 111.00
5'

25.26'

CO¹⁸
10.06

CO¹⁴
0.16
110.02 110.02

2 + 34.50

109.88 109.88

109.97

25.25'

CO²² CO⁰³
8.97 8.78
108.75 108.75
5

108.90

CO¹² C1²⁶
9.16 0.30
109.04 109.04
5'
H.L.

2 + 09.25

25.25

CO²²

CO⁰²
8.08
TR. 108.06 108.06

1 + 84

107.62 107.62
7.84

107.84

CO⁴¹ Grade
6.96 6.55
106.55 106.55
5

106.84

FO⁰⁶ CO⁴⁹
7.07 7.62
107.13 107.13
5'

1 + 64

NOYES ST.

	Lt		€	Rt	
	COYB	Corb		G	COYB Corb

3+29.76 Lt

114.45	114.45	CO.56 5.01 114.45	114.45		
--------	--------	-------------------------	--------	--	--

3+09.76 Lt

113.32	113.32	C1.31 4.63 3.81 113.32	113.32		CO.28 3.43 113.15 1 st Lt. LIP N.E. Seq.
--------	--------	---------------------------------	--------	--	---

2+89.76 Lt

112.35	112.35	CO.76 3.11 2.66 112.35	112.35		FO.18 1.58 111.76 1 st Lt. LIP S.E. Seq.
--------	--------	---------------------------------	--------	--	---

TR. € Non. Noyes Sly T' Line Missouri 112.82

E.C. def=45°

112.44	112.44	CO ⁰³ 2.47
--------	--------	--------------------------

10.20

def=35°15'21"
P.O.C.

112.30	112.30	CO ²³ 2.53
--------	--------	--------------------------

13.36

def=22°29'53"
P.O.C.

111.92	111.92	CO.27 2.19
--------	--------	---------------

C3°6k=11.92'
13.36

12-12-56

(Set P.K. & Disk € Noyes & Sly T' Line Missouri st.)

TBM.

112.14

50' RP € Mon Noyes & Sly T' line Missouri
2x2" Hub

NOYES ST.

Curb
Rough

Curb

B.C. def = 45°00'

10.20'

def = 35°15'21" 1/4
P.O.C.

13.36'

def = 22°29'53" 1/2
P.O.C.

C3°66' = 11.92'
13.36'

def = 9°44'25" 3/4
P.O.C.

C3°66' = 9.13'
(0.20')

∠ = 90°
Cb. R = 30' L = 47.12

0+10 = E.C. N.E.

Cb. Ret Missouri st
d = 57.29578

0+00 - Ahead
= 3 + 49.76 = N.L.

Missouri st

C1.52 C0.59 ✓

796 1703

116.44 116.44 - TP

5'

C0.47

620 ✓

115.73

E

RT

(19)

Curb

Curb
Rough

E0.12

3.82

113.94

113.94

C0.08

3.98

113.90

113.90

C0.48

4.63

114.15

114.15

C0.47

5.57

115.10

115.10

C0.20

620

116.00

C1.84

784

116.00

5'

116.44

115.73

115.10

115.10

NOYES ST.

E.C. Alley

cb, B = 2'
1 + 2189 = BC.5E

Alley Ret. Rt.

Begin

1 + 00

0.80

0 + 60

0 + 40

0 + 20

TBM.

TP.

Lt.

Curb Curb

C4.53 CO²⁵

0.75 647
126.22 126.22

10 bk
chis. brick
wall

FO.34

3.86
124.20 124.20

C1⁰² CO.16

3.37 2.51
122.35 122.35
5.

CO.16

0.67
120.51 120.51

CO.68 CO²⁹

9.43 9.04
118.75 118.75
5' chis. brick

CO.52

7.68
117.16 117.16

128.72

120.74

Lt.

FO.16

6.06
126.22

R.K.

124.21

122.37

120.51

118.75

117.16

Set PK. PPN 2 P-4774 - Sta 1+254 22' E.T.

et

Curb Curb

FO.48

5.96
126.44 126.44

FO.26 C1.68

5.96 7.90
126.22 126.22

5

FO.33

3.89
TP. 124.22 124.22

FO.33 CO.84

2.06 3.23
122.39 122.39
5.

FO.24

0.33
120.57 120.57

FO.14 C1.30

8.60 0.04
118.74 118.74
5

CO⁰³

6.94
116.91 116.91

(20)

NOYES ST.		Rough	Curb	Curb	€	€	RT Curb	Curb
def = 90°44'25"		CO ¹⁸	FO ³⁰	LT		FO.36	FO.46	
P.O.C. R.		7.28	6.80	CO.37		6.14	5.14	
C3°20' = 9.13'		147.10	147.10	6.80	148.00	146.50	145.60	145.60
10.20				146.43			2.5 RP 32	E.P.
4.70°30'43" L = 36.92		CO ⁴⁰	FO ⁶⁷	FO ¹⁷		FO.84		F.2.04
cb. R = 30'		6.4'	5.33	5.33		4.86		3.72
✓ 2 + 57.77 = B.C.		146.00	146.00	145.50		145.70	+45.76	145.76
SW. Cb. Ret (not set)				3.66				T.P. S. PK.
Chalcedony St.								
TP = 143.88		FO.74				FO.53		F.1.18
		2.13				2.35		1.46
2 + 39.77 = End		142.87	142.87			142.88	TP. 142.64	142.64
Cb. on Rt.								
30.88		CO.68	FO.61			CO ¹⁸	FO.45	FO ⁰⁵
✓ 2 + 08 ⁸⁹		8.17	6.88			7.58	6.84	7.24
		137.49	137.49			137.40	137.29	137.29
		5						5
TBM.			FO.56	2+00±404.13546		CO.52	CO ⁰⁹	
			3.65			4.68 TP	4.10	
1 + 89		134.21	134.21			134.16	134.01	134.01
		C.1.36	FO.21			CO.48	CO ²⁴	C.1 ⁰³
✓ 1 + 69		2.70	1.13			1.80	1.50	2.29
		131.34	131.34			131.32	131.26	131.26
		5'					5	
TP = 133.26		131.34				131.32	127.95	128.65
							0.02	128.65
EC + 18' = Alley R							C.1.37	128.65
+ 18'							30.02	128.65
							CO.52	128.65
E.C. Alley		CO ¹²				CO ⁰¹	0.81	128.29
cb. R = 21'						8.59	128.29	128.29
1 + 45.89 = E.C.		128.58	128.58			128.58	CO.34	128.29
N.E. Alley Ret on Rt							8.81	128.47
							128.47	128.47
							CO ¹²	
SE R & Alley							6.92	126.80
E.C + 18'							126.80	126.80

	Lt		E		Rt		
	Curb	Curb Rough	G	G	G	G	Curb
NOYES ST.							
B.M.			151.51	151.49	Mon. & Chalcedony & Noyes	2349	
T.B.M.				151.87	RP. 70' Rt Ely. of Mon. Chalcedony & Noyes	3)	
TP	152.83				Chis' ⊕		
P.O.T. from S.			C 4.83	CO ¹²	FO ¹⁰		C 4 ¹⁰ C 4 ⁶⁹
3+47.77 = N.L.	154.90	154.90	4.33 154.40	4.32 154.20	4.50 154.60		8.30 154.20
Chalcedony		5'	3.82 E.P.	20'	5.5 E.P. from 15 South Jan.		21' = RP. 3' bk E.P.
20'			EMC cb		RP 32' Rt E.P.		5' bk
			FO ⁰⁴	FO ⁰²	FO ¹⁵		C 2.66
3+27.77			2.31 152.35	2.08 152.10	2.30 152.45		4.76 152.10
20'			3.9 E.P.	20'	2.75 E.P.		21.5 = RP. 3' bk E.P.
			C 3.46	CO ⁰²	FO ⁰⁷	Grade	C 2.26 C 3.90
3+07.77 ⊕			3.76 150.30	0.32 150.30	9.93 150.00	0.30 150.30	2.26 150.00
Chalcedony			40' E.P.	40' RP 3' bk E.P.	20'	3' Rt	21.5 = 3' bk E.P.
20					CO ⁴¹	CO ¹⁰	FO ⁴⁸
2+87.77					8.41 148.00	8.40 148.30	7.52 148.00
20					20'	3' Rt	21.5 18.5 E.P.
			C 1.50	C 1.58	C 2.07		
def = 35° 15' 21"			50.27	50.28	0.27		
P.O.C. R.	148.70	148.70	148.20	148.20		146.50	145.00 147.50
13.36							E.P.
def = 22° 29' 53"			FO ⁵⁷	CO ⁵⁶	CO ⁰⁸		
P.O.C.	148.35	148.35	147.70	147.70			
13.36 - C 3' bk = 11.92'							

NOYES ST.

LT
Curb Curb

RT
NW. Cb. Ref
Chalcedony

Curb Curb
E0047

def = 27°19'07"
P.O.C.
154.90

C 2 00
698
154.90

P.O.C. R
27°19'07" / 154.90
59.39
154.98
Chris @ 6' Lt.
C 4, 75

11.04'
def = 20°29'31"
P.O.C.
155.90

C 2 14
804
155.90

def = 20°29'31" 155.90
60.65
155.90
RP 2.92
C 4, 11
61.31
157.20

11.04'
def = 13°39'55"
P.O.C.
157.20

C 2 64
984
157.20

def = 13°39'55" 157.20
def = 6°49'58"
P.O.C. 158.60
11.12
C 3' b b = 10.31
0 + 94.76
E.C. 160.04
158.60
160.04
160.04

11.05'
def = 6°49'58"
P.O.C.
158.60

C 2 07
6067
158.60

Gut.
C 0 95 C 5 92
0 + 74.76 7.95 6292
BC - 20 on Rt 157.00 - 157.00
5' b b EP

11.05' (Td. Alley)
∠ = 80°00' (79°46')
ER = 200' d = 8.594367
0 + 94.76 = E.C. Rt.
= E.C. N.W. Cb. Ref
Cb. R = 46.33' ∠ = 54°38'13"
d = 37.100656

C 3 62 C 1 95
3.06 1.99
160.04 160.04

C 0 02
0.05
160.03
C 0 69 C 5 25
0.72 5.28
160.03 160.03
T.P. Begin. cb.

(0 + 94.76 Set L. & Disk in @ 12-12-56)

RP. 80' Wly.; Chris @ 70' Ely

0 + 42.57 = Chalcedony
∠ = 70° W. To N.W.
0 + 00 = 20.07 Ely of Chalcedony St.

12-12-56
0 + 00 = Chalcedony on sly. Tan. Noyes Set. L. & Disk
0 + 00 Nly = 20.07 Ely of Chalcedony St.

T.P. 161.37

160.66

NOYES ST.

Curb
Rough

Curb

Lt

E

Rt

Curb

Curb
Rough

C1.53 C0.58

def4 = 18° 18' 27"
2+22.57

626 531
174.73 174.73

0.66 ft
chis) v Wall

C0.02

464
174.62

C0.06 C0.78

458 530
174.52 174.52

def4 = 15° 26' 34"
2+02.57

C0.14

336
173.22 173.22

F0.02

313
173.15

F1.76

222
173.98 173.98

def4 = 12° 34' 40"
1+82.57

C0.58 C0.28

208 178
171.50 171.50

F0.24

122
171.46

F1.03 F0.20

039 122
171.42 171.42

TP 170.53

def4 = 9° 42' 47"
1+62.57

C0.62

607
169.45 169.45

F0.46

898
169.44

F0.92

850
169.42 169.42
TP

TP 170.07

def4 = 6° 50' 54"
1+42.57

C1.00 C0.57

800 757
167.00 167.00

HL

F0.52

647
166.99

F0.67 C0.55

631 753
166.98 166.98

20' c = 19.99'

def4 = 3° 59'
1+22.57

C1.31

551
164.20 164.20

F0.45

374
164.19

F1.57

261
164.18 164.18

27.81' c = 27.79'

C = 39.99'
C = 47.01'

NOYES ST.

Curb
ROUGH

Curb

LT

E

RT

Curb

Curb
ROUGH

C 2.10 C 0.32
393 215
181.83 181.83

def 4 = 35° 29' 46"
3+42.57

C 0.07
166
181.59

C 0.07 F 0.19
141 115
181.34 181.34

F 0.51
066
181.17 181.17

def 4 = 32° 37' 53"
3+22.57

C 0.02
095
180.93

F 0.01
068
180.69 180.69

C 2.06 C 0.77
233 104
180.27 180.27
3° bk P

def 4 = 29° 46'
3+02.57

F 0.15
17990
180.05 TP

F 0.05 Grade
977 982
179.82 179.82

C 0.77
990
179.13 179.13

def 4 = 26° 54' 06"
2+82.57

F 0.37
856
178.93

C 0.10
883
178.73 178.73

C 3.05 C 0.97
8080 872
177.75 177.75
0° bk P
Chsl & Wall

def 4 = 24° 02' 13"
2+62.57

TP 178.89

F 0.28
29
177.57

F 0.15 C 0.35
725 775
177.40 177.40
TP

C 0.71
694
176.23 176.23

def 4 = 21° 10' 20"
2+42.57

C 0.01
611
176.10

C 0.63
609
175.96 175.96

NOYES ST.

Curb
ROUGH

Curb

Lt

±

Rt

(26)

Curb

Curb
ROUGH

C1.96

C0.10

C0.17

def $\Delta = 1^{\circ}03'23''$

4+62.56

183.80

5.76
183.80

3.65
183.55

3.47

183.30

Str. 2' Rt @ Lt. ± Rise, r.

4+58 = W. def = 0°43'47''

Lat Lt. 21' = 1' Br. face Cb. = ± Rise

14.75 C = 14.75

FO 31

3.42

183.73

Rise 2.5

C2.92

6.50

183.58

183.73

Rise 2.5

C1.10

4.68

183.58

4+47.81 = BC. Lt.

± B = 400' ± = 44°57'30''

d = 4.297183 TBM - 186.65

22.81

50' RP
W.B.C.

(Set L. & Disk in ± 4+47.81)

C1.36

4.58

183.22

C0.19

3.52

183.33

FO 02

3.06

183.08

C0.16

3.24

183.08

4+25

183.22

183.22

C0.11

3.11

183.00

C0.34

3.06

182.72

182.72

C2.34

5.17

182.83

C1.02

3.85

182.83

FO 02

2.62

182.64

C0.18

2.51

182.33

FO.28

2.05

182.33

4+00

26 (RR HUB 35' RT)

def $\Delta = 40^{\circ}00'$

3+74.01 E.C.

C2.30

4.72

182.42

C1.28

3.70

182.42

C0.01

2.28

182.27

C0.14

2.06

181.92

FO 20

1.72

181.92

(Set L. & Disk. in ± 3+74.01 12-12-56)

11.44' C = 11.44'

def $\Delta = 38^{\circ}21'40''$

3+62.57

182.25

C1.32

3.57

182.25

C0.18

2.18

182.00

C0.17

1.92

181.75

181.75

C = 31.41

	Corb Rough	LT Corb	LT	ET	Corb	Corb Rough
NOYES ST.						
def 1 = 9° 39' 02"		C106		F0.40		F0.56
5+82.56	182.28	3.34 182.28		1.63 182.03		1.22 181.78 181.78
def 1 = 8° 13' 06"	C4.07	C141		F0.54		F0.75 F1.29
5+62.56	7.08 183.01	4.42 183.01		2.22 182.76		1.76 182.51 182.51
def 2 = 6° 47' 10"		C044		F0.57		F0.62
5+42.56	183.56	4.00 183.56 C8.61		2.74 183.31		2.44 183.06 183.06 T.P.
5+40 = S. Lat. def = 6° 36' 10"		87.31 178.70	176.30			
N° 2 Lt. 25'	C3.00	501.91		F0.41		F0.49 F1.02
def 4 = 5° 21' 13"	6.93 183.93	5.84 183.93		3.27 183.68		2.96 183.45 183.45 4 th bb R
5+18 = W. Lat def = 5° 01' 37"	F0.32 3.65 183.97	183.97		F0.31		F0.28
Lt. 25'	R.P. 2'S	R.P. 3'N.		3.66 183.97		3.34 183.62 183.62
def 4 = 3° 55' 16"		C1.88				
5+02.56	184.12	6.00 184.12				
TP. 186.82.						
def 4 = 2° 29' 20"	C2.6	C1.87		F0.29		F0.14 F0.65
5+82.56	6.82 184.13	6.00 184.13		3.69 183.98		3.49 183.63 183.63
20' C = 19.995'		C6.72				
4+70 = S. def = 1° 35' 21"	183.0	6.72 180.00	178.80			
Lat N° 1. 25' Lt.		R	5			

C = 35.98'
C = 34.74'

	Corb Rough	LT Corb	E	RT Corb	Corb Rough
NOYES ST.					
def $\alpha = 19^{\circ} 51' 08''$ 7+25	174.18	C 1.87 6.05 174.18 Nail C 4.49 80.15 175.66	F0.23 3.69 173.92	F0.12 3.55 173.67	173.67
TP. 177.76					
def $\alpha = 18^{\circ} 03' 42''$ 7+00	175.66	C 7.94 83.66 175.66	F0.31 5.09 175.40	F0.51 4.64 175.15	F1.10 74.03 175.15
6+89: S. Lat. def = $17^{\circ} 16' 26''$ N 2 4-25' Lt.		86.31 171.00	169.50		
def $\alpha = 16^{\circ} 16' 17''$ 6+75	177.14	5.55 177.14	C0.08 6.96 176.88	F0.59 6.04 176.63	176.63
TP. 177.38					
def $\alpha = 14^{\circ} 28' 51''$ 6+50	178.62	C 7.53 6.15 178.62	C 4.78 83.40 178.62	C0.11 8.48 178.37	F0.61 7.50 178.11
TP. 178.45					
def $\alpha = 12^{\circ} 30' 56''$ 6+22.56	180.24	C 4.42 4.66 180.24	C0.09 0.08 179.99	F0.68 9.05 179.73	179.73
def $\alpha = 11^{\circ} 05'$ 6+02.56	181.37	C 5.18 6.55 181.37	C 4.26 5.63 181.37	F0.17 0.95 181.12	F0.43 0.44 180.87
TBM		185.51	Set PK. PPN ^o P-4880 Sta 6+10 ± on Lt.		

NOYES ST.

Lt.

E

Rt

(29)

Curb
Rough

Curb

Curb

Curb
Rough

T.B.M. Sta 7+61.68 2349

179.44 ~ 179.41

ON P. OP BC PIPE ONLY
COR Bery/4 NOYES

FO 30

def Rt 120° 43' 29"

P.O.C. def Lt 22° 58' 19"

170.06

CO 79
0.85
170.06

E

940
169.70

169.70

11.04 Rt.

10.08 Lt. - C 3' bk = 9.50

def Rt 90° 32' 37"

P.O.C. def Lt 17° 14'

170.50

CO 89
1.34
170.50

Along E. Bery/1
79' E. SW. BCCB.

+ E. Noyes 9
Bery/1

6° 31' 02"

0.28

8+52.68

169.93

E.P.O.C.

FO 41

C 1.04

964

1.09

170.05

170.05

12' bk cb

11.04 Rt.

10.09 Lt.

C 4.23

20'

CO 66

FO 46

def Rt 6° 21' 45"

P.O.C. def Lt 11° 29' 20"

170.90

5.13 CO 97
C 1.32

def 4 =

CO 73

C 1.08

C 1.21

994

170.40

170.40

11.04 Rt.

10.09 Lt.

C 3.91

5° 05' 06"

0.51

0.36

def Rt 3° 10' 52"

P.O.C. def Lt 15° 44' 40"

171.40

5.31
171.40

20"

CO 56

0.52

170.90

170.90

11.04 Rt. C 3' bk = 10.70'

10.09 Lt. C 3' bk = 9.51'

L = 92.22' d = 34.15885

R.Lt = 50.52' A = 105° 00' 16"

L = 110.48

Cb. R. Rt = 99.42'

Cb. R. Lt = 50.32'

7+61.68 = E.C. = 22° 28' 45"

B.C. Cb. Ret's Lt. & Rt.

Bery/1 St.

11.68' 7+51 = S. def = 21° 42' 52"

Lot N 25.25' Lt.

def 4 = 21° 38' 34"

7+50

C 8.22

C 4.14

def 4 =

3° 39' 10"

8+12.68

E.P.O.C.

25'

1° 49' 35"

7+87.18

E.P.O.C.

25'

0.46

169.90

CO 23

1.05

170.82

CO 02

1.77

171.75

FO 57

CO 78

0.93

171.50

228.6

171.50

5' bk R.

C 13.02

8062

167.60

167.10

FO 14

C 1.10

CO 29

8070

172.70

FO 52

172.70

2.30

172.44

3.29

172.19

2.48

172.19

T.B.M. 50' RP. Rt. & RR. Ct + 61.68

CDW 204 WB.

7+40 = W. Lot. def = 20° 55' 36"

Lt. 21' = 6" bk Cb.

E. Riser 21' Lt & Rt.

FO 22

3.07

173.29

RP 4'S

170.15 ~ 170.17

173.29

RP 2' N.

Set L & Disk in E Sta 7+61.68 12-12-56

NOYES ST.

P.O.C. Rt. def 4 = 31° 50' 05"

11.12' C-3° 6k = 10.78'

P.O.C. Rt def = 28° 37' 50"

EC Lt. def 4 = 52° 30' 08"

11.04 Rt

11.55 Lt - C 3° 6k = 10.88'

def Rt 25° 27'

P.O.C. def Lt 45° 55' 36"

11.04 Rt

10.08 Lt

def Rt. 22° 16' 05"

P.O.C. def Lt. 40° 11' 16"

11.04 Rt

10.08 Lt

def Rt. 19° 05' 13"

P.O.C. def Lt. 34° 27'

11.04 Rt

10.08 Lt

def Rt 15° 54' 21"

P.O.C. def Lt. 28° 42' 38"

11.04 Rt

10.08 Lt

Curb
Rough

Curb

Lt

±

Rt

± (30)
EP 169.67

Curb
Rough

Curb
Rough

FO²⁰ = F.O. 92

8.80 8.08

169.00 169.00

5' bk R

168.50

Ch.
To P.O.C.
78

86' To P.O.C. PL. →
= 12%

C 13.00 C 0.56

20.97 8.53

167.97 167.97

167.47

168.93

169.43

169.23

FO²²

8.80

169.02

169.02

20'
4.71%

20'

C 0.87

9.32

168.45 168.45

FO²⁷

8.79

169.06

169.06

C 1.07

9.87

168.80 168.80

FO⁴⁵

8.66

169.11

169.11

C 11.40 C 0.84

180.60 0.04

169.20 169.20

5' bk R

FO³⁷

8.80

169.17

C 1.26

0.43

15' bk. cb

C 0.90

0.50

169.60 169.60

FO³³

9.12

169.45

169.45

Ch. C = 45.87'

Ch. C = 32.97'

27 & RT

SEWER GRADES FROM EXISTING M.H. @ SW. COR
ACADEMY & LAW ST'S. TO D.E. NOYES ST.

NOTE: offsets 5' rt of & or as noted

0+94 WO 32103

C 3.84
22.51
118.67 ✓
chis 1 ⊕

1+00

C 3.90
122.33 ✓
118.43
chis 1 ⊕

0+84

C 4.10
122.15 ✓
118.05
chis 1 ⊕

0+75

C 5.59
22.23 ✓
116.64
chis 1 ⊕

0+50

5.702 90

C 7.73
22.94 ✓
115.21
chis 1 ⊕

0+25

C 9.57
23.36
113.79

0+00 = Existing M.H. SW Cor. Law & Academy

T.P. 124.88

B.M. 132.60

(See Pg. 40. P.K. Nail & Beryll 2349.
42

SEWER

2+50 def $\Delta = 1^{\circ}31'04''$

2+25 def $\Delta = 0^{\circ}35'52''$

16.24'
 ϕ Sewer R = 778.5' $\Delta = 18^{\circ}08'10''$
 L = 246.42' $d = 2.207929$
 2+08.76 = P.C.C. def $\Delta = 10^{\circ}15'$

28.76

1+80 def $\Delta = 6^{\circ}38'39''$

1+50 def $\Delta = 2^{\circ}53'01''$

23'
 ϕ Sewer R = 228.5' $\Delta = 20^{\circ}30'$
 L = 81.76 $d = 7.522921$
 ϕ Sewer
 1+27 = ϕ M.H. No 1 P.O.C.

3.24496

ct.

ϕ

rt

(32)

C 5.38
 27.46
 122.02
 35 rt

C 5.32
 26.69 \checkmark
 121.37
 35 rt

C 5.70
 26.64 \checkmark
 120.94
 35 rt

C 6.61
 26.80 \checkmark
 120.19
 35 rt

C 6.34
 25.74 \checkmark
 119.40
 35 rt

C 8.34 C 10.77
 27.14 9.57
 118.80 118.80
 RR 5' RT RR 15' RT @ 90°
 To BR Tan.

SEWER

4+00 def \angle = \checkmark 70° 02' 15"

T.P.

130.94

3+75 def \angle = \checkmark 6° 07' 03"3+50 def \angle = \checkmark 5° 11' 50"3+25 def \angle = \checkmark 4° 16' 40"

2.6206

3+00 def \angle = \checkmark 3° 21' 27"2+75 def \angle = \checkmark 2° 26' 15"

T.P.

12882

Lt.

E

Rt.

(33)

C 5 00

30.95

125.95

35 RT

C 4 60

29.90 \checkmark

125.30

35 RT

C 4 63

29.27 \checkmark

124.64

35 RT

C 4 82

28.82 \checkmark

124.00

35 RT

C 5 05

28.38

123.33

35 RT

C 5 48

28.16 \checkmark

122.68

35 RT

Lt.

E

Rt

(34)

SEWER

5+50

C 8.84
46.89
138.05 ✓

5+25

C 13.29
48.53
135.24 ✓

5+00

11.289' 20

C 10.28
42.71
132.43

4+75

C 11.75
41.37
129.62

1902

4+55¹⁸ E M.H. N°2 def 4 = 9° 04' 05" ✓

C 11.23 ✓ C 17.70
38.63 ✓ 45.10
127.40 127.40
5' Rt 15' Rt @ 90° For

28.18

4+27 def 4 = 8° 01' 52" ✓

2.629' 20

C 5.49
32.15 ✓
126.66 ✓
3⁵ Rt

Tan

T.P.

137.99

SEWER

	Lat	Long	RT	(35)
7+00			C 9.35 61.82 152.47	
6+85.6 = S. Lat N ^o 6 RT.	6.7690		151.50 C 8.10 58.88 ✓ 150.78	C 19.58 ✓ 175.38 155.80 37' RT. & 5° 66' RT
6+75				
TP.		156.76		
2924				
6+45.76 = 4 = 30° 56' RT. M.H. N ^o 3 = 3° 51' of & Beryl st.			C 6.46 53.26 ✓ 148.80 ✓ 5' RT	C 6.03 54.83 148.80 15' RT @ 90° To For. Tan
2076				
6+25			C 6.53 53.00 ✓ 146.47 ✓	
6+00	11.22990		C 5.67 49.33 ✓ 143.66	
5+94 = 50 ± S. Lat N ^o 7 RT.			143.00 C 5.09 45.94 ✓ 140.85 ✓	C 15.06 160.06 145.00 16' RT 5' 64' RT.
5+75				
TP.		147.45		

SEWER

8+55⁷⁶ $\frac{1}{4}$ = 17° RT. of
 $\frac{1}{4}$ M.H. N° 4

2776

8+28

8+00

7+75

7+50

7+25

6.76 90

Lt.

±

Rt.

(36)

C 7.24 C 7.23 ✓

70.24 70.23

163.00 163.00

CHS/D 15' Lt. 5' Lt. CHS/D

@ 90° To be Turn

C 8.56

69.68

161.12 ✓

C 9.59

68.82 ✓

159.23

C 9.90

67.44 ✓

157.54

C 9.94

65.79 ✓

155.85

C 9.95

64.11

154.16

SEWER

10+00

9+75

9+50 = S.L. of N^o 5 Rt

9+25

TP

9+00

8+75

19 ²⁹

4.326%

171.81

Lt.

C

Rt.

(37)

C 6.06
75.30 ✓
169.24

C 5.35
73.51 ✓
168.16

C 5.16
72.24
167.08

C 13.01
80.61
167.60
12'

C 5.51
71.51 ✓
166.00

C 5.94
70.83 ✓
164.91

C 6.33
70.16
163.83 ✓

SEWER

11+25

11+00

10+75

10+50

10+24
27°16' Td
4 = 295.30'
10+39.76 = & M.H. N° 5

10+20 = 5. Lat N° 5 Rt

10+06 = 5
Lat N° 4 Rt.

4.298.970
4.326.3

Lt. E Rt. (38)

C 10.81
85.43
174.62

C 12.10
85.65 ✓
173.55 ✓

C 7.75
80.22 ✓
172.47 ✓

Tp. C 8.00
79.40 ✓
171.40 ✓

C 8.18 C 11.23
79.14 ✓ 82.19 ✓
170.96 ✓ 170.96 ✓
5' Rt 15' Rt @ 90° To
bk Tan

C 7.01
77.11
170.10

167.60

169.50

C 15.30
86
171.00 ✓
17'

8" V.C.P. SEWER NOYES ST.

T.B.M.

185.50 - 185.51 (see pg. 28)

12+27⁷⁶ End of Line Plug

12+22⁶ S. Lat N^o 1 Rt.

12+00

11+75

11+64
S. Lat N^o 2 Rt

11+50

41298.910

C 4.46	C 7.54
83.50	86.58
179.04 ✓	179.04
RP 5' Rt.	RP 15' C 6.62
	Rt 86.69
178.80	180.00
C 5.59	12'
83.44 ✓	
177.85	

C 8.51	
85.28	
176.77 ✓	C 8.60
	87.30
176.30	178.70 ✓
C 10.63	8'
86.33 ✓	
175.70	

Ref DW911959-L
 " FB 2349
 41

(40)

PAVING GRADES BERYL ST. ACADEMY TO

NOYES ST.

±
E.P.

RT

Rough

Curb Curb

TR 142.72

Grade CO.14 CO.19

C 1.44

0+60

1.37
141.38
Meet

1.36 1.48
141.36 141.34
20 40

1.52 def=4°14'02"
141.33 141.32
76± 1700
LIP 64±

48.68
141.65 147.24
147.24

0+45 = W. Lat = 0+36
RT. CB Line

0+85 = W. Lat RT def=5°37'45"

0+40

139.13
139.01
Meet

FO.41 FO.31
8.67 8.72
139.08 139.03
20 40

Grade
8.95 def=3°19'05"
138.95 0+75 138.67
56± 74±
LIP

145.29
F 1.79
2.49
144.28
55±

C 2.41
47.70
145.29
RP 8' 5" bk
± EISEY
145.33

TR

140.35

FO.12 CO.03 CO.05

F 1.34

0+20

137.03
136.90
Meet

6.58 6.53
136.70 136.50
20 40

6.25 def=2°24'08"
136.20 0+50 136.05
66± LIP 85±

C 3.52
141.32 141.32

TR 146.79

0+36 = W. Lat
c 3' bk cb = 24.75
def=1°53'21"

43.18
139.06
RP 8' 5" bk
± EISEY
145.8

FO 30

139.64
RP 8' 5" bk
± EISEY
145.8

0+00 =

134.99
Meet

134.36
40

134.05
78±

def=1°29'10"
0+25 134.05
Cb.
c 3' bk cb = 15.24
15.30'

8.06
138.36

FO 10

43.34
138.36
Meet

89.48 E of SW. P. Bg.
Academy & Beryl
P.K. & Beryl

TBM. P.K. N LIP
Sta 1+75±

157.28

1+30± Nail in c.P. Cb.

TBM. N. Cb. Beryl St.

148.78

TR

139.80

def=0°55'27"
0+0970 c 3' bk = 25.13
d = 2.198097 (25.27)
A = 90°44'44"
Cb. R = 782' L = 133.01
0-15 = End
Existing Cb.

133.28 133.97 133.97

T.B.M. P.K. Nail & Beryl 0+00

60-
132.50 ~ use
2349
72

±

et.

(41)
Curb
Curb
Rough

BERYL ST.

1+90 159.15

def = 6° 56' 02"
1+90 POC.

FO 30 C 5.94
835 64.59
158.65 ✓ 158.65

C-3° 66' 06" = 19.80

TP 160.34

1+70 156.50

def = 5° 01' 22"
1+70 POC

FO 26 C 5.34
574 61.34
156.00 ✓ 156.00
5' 66" 12 5' 66" 64.

TP 55.03

Grade

15.63

1+50 - 73 153.30
153.70 153.30
20'

C-3° 66' 06" = 15.47
153.14
LIP 289

C 3.91
55.79

1+48 = W. Lat. O.K.
RT.

1+48 = W. Lat def = 2° 58' 40"

CO 18

def = 3° 31' 45"

FO 39 C 10.65

1+25 26 150.28
150.20 150.10
20 ±

149.83 37
LIP 362 19.37
1+54 POC.

3.71 64.75
154.10 ✓ 154.10

TP 149.09

CO 29 CO 27

C-3° 66' 06" = 19.17'

1+00 72 146.94 146.87
146.70 146.65 146.58
20 28 ±

146.48
LIP 268
def = 1° 40' 41"
1+35 POC.

C 1.52 151.88
316 151.64
151.64 ✓ 151.64
Riser

0+88 = W. Lat = 0+23 = CB.
RT.

def = 0° 32'
1+23 = S.L.N = 7-7° RT = H

CO 24 CO 44

C-3° 66' 06" = 17.38'

0+80 95 144.14 144.30 143.83
143.90 143.90 143.86 143.83
20' 37 ± LIP 553

4 = 21° 09' 41" d = 5.733782
CB R = 299.78 L = 110.72
1+174 = def = 4° 52' 22"
P.C.C.

159.96 (564)
C 1.74 C 10.24
5115 59.65
149.41 ✓ 149.41
TP

TBM, Set Chis @ 17 N. Cb.
31° N. ± Beryl 1.2 + 28 = R.F.C.B.C.

93
163.84

C-3° 66' 06" =
17.37'

€

RT

Curb

Rough
Curb

BERYL ST.

B.M.		179.32	179.44	179.41		
TP		172.35		<u>2349</u> 38		

2+99.04 = B.C. SW. Cb Ret Noyes St. Cb R = 50.32	8 52 ✓168.48					CO56 C 2.29 8.53 72.26 ✓167.97 ✓167.97 5' b & G.L.
--	-----------------	--	--	--	--	---

2+70.	166.87					FO29 6.08 166.37 166.37
-------	--------	--	--	--	--	-------------------------------

2+50	165.38					FO.37 C 3.16 4.50 8.04 164.88 ✓164.88 5' b & G.L.
------	--------	--	--	--	--	--

def 4 = 10°34'50.5" 2+28.6 = Cb. EG. RT.	163.45					CO08 C 5.31 3.03 8.26 162.95 ✓162.95 5' b & G.L.
---	--------	--	--	--	--	---

def = 9°22'50" 2+15.6 = W. Lat of RT. C-3° b & Cb = 17.97 def = 8°50'43" 2+10 POC. RT ch.	✓161.52					Cb. Gr. FO06 61.56 161.62 PP. 1 b & of E Riser CO08 1.10 161.02 161.02
--	---------	--	--	--	--	--

def = 8°25'30" 2+05.6 = S. Lat N°6 40° RT. € Beryl.		C 19.48 155.80 175.28 5' b & G.L. 37 RT & Sewer				
---	--	---	--	--	--	--

Ref FB 2150
DW911954-L
6-20-56

L+

R+

PAVING GRADES NOYES ST. GARNET. TO

	W.O. 32103							Curb	Curb
								Rough	Rough
0+75	63.05	CO ⁵⁰ 3.55 63.05			62.48			CO ⁰⁶ 1.97 61.91	61.91
0+50	62.67	CO ³⁵ FO ¹¹ 3.02 2.56 62.67 62.67 0.06k			62.06			CO ²⁷ F ^{1.30} 1.73 0.16 61.46 61.46 5'	
0+25	62.29	CO ²⁰ 2.49 62.29			61.65			FO ⁰³ 0.98 61.01	61.01
0+06 = B.C. Ret's L+ & R+ C.B.R = 20'	62.00	CO ⁶⁸ CO ³² 2.68 2.32 62.00 62.00 0.06			61.33			CO ³⁶ FO ⁴² 1.03 0.75 60.67 60.67 0.06k	
0+00 = N/4 Line Garnet St.	61.90	61.90			60.95			.63 60.59	60.59

B.M. 63.17

P.K. Nail Conc. B/E. Wall N.W. Cor Noyes &
G-361-58 Garnet

	LT	RT	RT	(74)
	Curb Rough	Curb		Curb Rough
NOYES ST				
BC Alley	64.20	$\begin{array}{r} FO\ 25 \\ \underline{3\ 95} \\ 64.20 \end{array}$		$\begin{array}{r} CO\ 18 \\ \underline{3\ 38} \\ 63.20 \end{array}$
Cb, R=4' 1+48 ⁸⁰ =E.C. NE. & NW. Alley Ret's,	$\begin{array}{r} FO\ 27 \\ \underline{3\ 91} \\ 64.18 \\ 5' \end{array}$	$\begin{array}{r} FO\ 23 \\ \underline{3\ 95} \\ 64.18 \end{array}$	63.68	$\begin{array}{r} CO\ 20 \\ \underline{3\ 38} \\ 63.18 \\ 5' \text{ Cb, R} \end{array}$
		Top Conc. @ blk 63.69		
Alley & R	64.21	$\begin{array}{r} FO\ 33 \\ \underline{3\ 78} \\ 64.18 \end{array}$	$\begin{array}{r} CO\ 17 \\ \underline{3\ 78} \\ 63.61 \end{array}$	$\begin{array}{r} FO\ 51 \\ \underline{2\ 27} \\ 62.78 \end{array}$
				$\begin{array}{r} FO\ 94 \\ \underline{2\ 27} \\ 63.21 \end{array}$
+16'		Grade		$\begin{array}{r} CO\ 05 \\ \underline{2\ 94} \\ 62.89 \end{array}$
E.C. Alley	63.89	$\begin{array}{r} \underline{3\ 89} \\ 63.89 \end{array}$	$\begin{array}{r} \underline{3\ 39} \\ 63.61 \end{array}$	62.89
Cb, R=4' 1+20 ⁸⁰ =BC SE &	63.75	$\begin{array}{r} CO\ 14 \\ \underline{3\ 89} \\ 63.75 \end{array}$	63.25	$\begin{array}{r} CO\ 20 \\ \underline{2\ 94} \\ 62.74 \\ 4' \end{array}$
SW Alley Ret's,				
1+00	$\begin{array}{r} CO\ 43 \\ \underline{3\ 86} \\ 63.43 \\ 2' \text{ bk} \end{array}$	$\begin{array}{r} CO\ 29 \\ \underline{3\ 52} \\ 63.43 \end{array}$	62.90	$\begin{array}{r} FO\ 01 \\ \underline{2\ 35} \\ 62.36 \\ 5' \end{array}$

	Curb Rough	Curb	Lt	±	Rt.	Curb Rough	Curb Rough
NOYES ST.							
4=70°30'43"		CO.70	FO.16			CO ⁰⁴	F1.22
cb. P=30' L=36.92'		6.55	5.69			4.76	3.50
2+59° = B.C. S.E. & S.W.		✓65.85	65.85	65.30		64.72	64.72
cb. Ret's Felsparst.		5'					5'
		CO.65	FO ⁰⁷			Grade	FO.83
		6.20	5.48			4.45	3.62
2+40		✓65.55	65.55	65.01		64.45	64.45
		5					5
			FO ¹⁷			CO.15	
			5.08			4.32	
2+20		65.25	65.25	64.72		64.17	64.17
		CO.12	FO ¹³			CO.15	FO.23
		5.07	4.82			4.04	3.66
2+00		✓64.95	64.95	64.43		63.89	63.89
		5					0.0
			FO.44			CO.19	
			4.13			3.73	
1+75		64.57	64.57	64.06		63.54	63.54
			FO.34	CO ¹⁰		CO.47	CO ⁰³
			4.18	4.18		3.55	3.55
Alley 4th		64.52	64.52	64.08		63.08	63.52
+16'							

Lt

2150
60

E

Rt

(46)

NOYES ST.

Curb
Rough

Curb

Curb

Curb
Rough

C140

C0⁰¹C0¹⁰C0⁰⁶

$\angle = 70^{\circ}30'43''$
 $0+10 = EC\ NE\ \&\ NW.$
 Cb. Ret. s. Cb. R = 30'

9.20
 $\sqrt{67.80}$
 5'

7.81
 67.80

6.90
 $\sqrt{66.80}$
 5'

6.86
 66.80
 5'

TBM, Top NE L + DIS E
 Felspar ST.

65.60

$3+49.60 = 0+00.3$
 N.L. Felspar. ST.

$\sqrt{67.50}$ 67.60 67.60

67.10

66.50

66.50

$3+09.60 = 6$
 Felspar

66.50 66.50

64.80 64.80

$def = 35^{\circ}15'21''$
 P.O.C. R

30
 66.34 66.34

30
 66.34

.44
 64.42 64.42

.44
 64.42

13.36

F0³²

$def = 22^{\circ}29'53''$
 P.O.C.

5.92
 66.24 66.24

5.92
 66.24

F0⁰¹
 4.69
 64.70 64.70

4.69
 64.70

$C-3^{\circ}66'cb = 11.92$
 13.36

C0²⁶

$def = 90^{\circ}44'25''$
 P.O.C.

6.24
 $\sqrt{65.85}$ 65.98 65.98

6.24
 65.98

65.40

F0⁰¹
 4.81
 64.82 64.82

4.81
 64.82

$C-3^{\circ}66'cb = 9.13'$
 10.20

		Lt		±		Rt	
	Curb ROUGH	Curb				Curb	Curb ROUGH
NOYES ST.							
			FO 35			FO 23	
			1.42			71.07	
B.C. Alley	71.77	71.77				71.30	71.30
	CO 75	FO 38				FO 28	FO ³⁵
	2.55	1.42				71.07	1.00
Cb.B = 4' 1+48.92 = EC NE & NW Alley Cb. Ret's.	71.80	71.80		71.54		71.35	71.35
	5' Cb.B						5'
			FO ⁰⁹	FO 06		F 1.07	F 1.23
			1.42	1.42		69.75	69.75
Alley & A.	71.51	71.51	71.48	71.	70.74	70.82	70.98
					Exst		
+16'							
			FO 54			FO 29	
			0.66 ✓			70.37	
EC Alley	71.20	71.20		71.50		70.66	70.66
			FO 34			FO 08	
			0.66 ✓			70.37	
Cb.B = 4' 1+20.92 = BC SE & SW Alley Cb. Ret's.	71.00	71.00		70.73		70.45	70.45
	CO 85	FO 43				FO 13	FO 50
	1.24	9.96				69.63	9.26
1+00	70.39	70.39		70.08		69.76	69.76
	5' Cb.B						0' bk.

	Curb ROUGH	LT. Curb
NOYES ST.		
A=70°30'43"	C1 ²³	FD ⁰⁹
Cb. R=30'	6.23	4.91
2+59.84 = B.C. SE 1/4 SW.	75.00	75.00
Cb. Ref's. Emerald St.	5.	
T.P. Top Stub (7534) S.E. 30' Curb Ctr.		
T.P. 24.07		
2+50	74.72	74.72
		FD ²⁴
		3.76
2+25	74.00	74.00
		FD ¹⁴
		4.07
2+00	73.23	73.23
	5	
		FO ⁴³
		2.13
1+75	72.56	72.56
		CO.17 CO.48
		2.26 2.26
Alley & R.	72.09	72.09 71.78
+16'		

±	RT	(49) Curb ROUGH
		CO ¹⁹
		60.03
		75.03
	75.00	75.00
		5.19
		75.00
		5.
	74.69	74.67
		74.67
		FO.08
		73.77
	73.91	73.85
		73.85
		FO.28 CO ⁶⁴
		72.75
	73.13	73.03
		3.67
		73.03
		5.14
		FO.19
		72.02
	72.36	72.21
		72.21
		FO.01 FO.51
		71.11
		71.11
	70.96 Ext	71.12
		71.62
		71.62

NOYES ST.

Curb
Rough

Curb

CO.67

FO.13

840

760

77.73

77.73

5'

$\angle = 70^{\circ}30'43''$
O+10=EG.NE@NW.Cb.
Rets. Emerald St. CbE=30'

3+49.84 = O+00 J =
NL. Emerald St.

77.52

77.52

77.40

77.52

77.52

3+09.84 = E Emerald

76.60

76.60

76.40

76.58
(Meet)

76.58
(Meet)

def = $35^{\circ}15'21''$
P.O.C.

76.03

76.02
76.03

76.02

76.02^{.05}
(Meet)

13.36'

def = $22^{\circ}29'53''$
P.O.C.

75.64

FO.39
75.25
75.64

FO.08
75.57
75.65

FO.08
75.57
75.65

13.36'
c.3'cb, cb=11.92'
def = $90^{\circ}44'25''$
P.O.C.

75.26

FO.16
75.10
75.26

C 0.03
75.28
75.25

C 0.03
75.28
75.25

c.3'cb, cb=9.18'
10.20

L+

6-21-56

R+

(50)

Curb

Curb
Rough

FO.15

C 2.86

757

058

77.72

77.72

5'

NOYES ST.

	Curb ROUGH	Curb				Curb	Curb ROUGH
		FO ⁰⁶ 901				CO ⁰² 909	
0+65	79.07	79.07		79.07		79.07	79.07
	C 1.56 0.13	CO ⁰¹ 859				FO ⁰⁷ 850	C 2.18 0.75
0+45	78.58 0.06	78.58		78.57		78.57	78.57 51
		FO ⁰⁹ 800				FO ¹² 797	
0+25	78.09	78.09		78.09		78.09	78.09
def = 35°15'21"							
P.O.C. P	.60 77.56	77.56	77.02		76.50	77.16	.08 77.16 (Meet)
13.36'							
		FO ²⁰ 729				FO.29 632	
def = 22°29'53"		77.49				77.21	77.21
P.O.C.							
C 3'66.06 = 11.92 13.36							
		FO ²⁰ 732				FO.31 721	
def = 90°44'25"		77.52				77.52	77.52
P.O.C.							
C 32.66.06 = 9.13' 10.20							

LT

7-05-56 €

RT

(52)

Curb
Rough

Curb

Curb

Curb
Rough

NOYES ST.

FO⁹⁹FO⁶⁰1449⁰² = EC.NE&NW
Alley Cb. Rets

81.63

0.64
81.63

81.72

1.21

81.81

81.81

Alley + R
TP. Stub S.W.

81.99

CO.80 CO.91

FO.05 FO.55

Alley & R

81.19

1.99
81.19 81.080.73
80.78 ✓0.73
81.28 ✓

81.28

+ 16'

FO.45

FO.15

EC Alley

80.87

.42
80.870.81
80.96

80.96

C1.49 FO.24

CO⁰⁷ CO.237+21⁰² = BCSE&SW
Alley Cb. Rets2.15
80.66
5'0.42
80.66

80.84

0.81
80.740.97
80.74
5'

TP 81.37

CO⁰⁷

CO.15

1+05

80.15

0.22
80.15 ✓

80.17

0.34
80.19 ✓

80.19

C2.60 FO⁰⁷CO⁰⁵ C1.27

✓ 0+85

2.18
79.58 ✓
1.66.95
79.58

79.58

.963
79.58 ✓.085
79.58

2.66

NOYES ST.

	Curb Rough	Curb	Lt	±	Rt	Curb	Curb Rough
2+25	84.84	F0.51 433 84.84		85.16		F0.14 534 85.48	85.48
2+05	C3.82 773 83.91 5'	F0.45 346 83.91		84.16		F0.33 407 84.40	CA.25 8.65 84.40 5'
1+85	83.04	F0.21 283 83.04		83.22		F0.08 332 83.40	83.40
1+65	C0.63 286 82.23 5'	F0.45 178 82.23		82.36		F0.12 236 82.48	C1.84 4.32 82.48 5'
Alley & A	81.88	C0.61 249 81.88	C1.11 249 81.38		C2.28 353 81.25	C1.78 353 81.75	81.75
416'		F0.92 064 81.56				F0.45 121 81.66	81.66

Curb
R009H

Curb
T

Lt

d

Rt

Curb

Curb
R009H

NOYES ST.

EG. Lt.
def = 45°00'

~~87.60~~ ~~87.60~~

REVISED ↑

Begin ch. inlet.
def = 33°32'14" Lt = End cb
def = 35°15'21" Rt + Lt
POC #

F0.89
6.61
87.50 87.50

C0.98
9.48
88.50 88.50

8.65' Rt
~~6.85' Lt~~

5' bt.
inlet

F1.05
6.23

def = 26°59'45" Rt
POC.

87.30 87.30

F0.41
7.89
88.30 88.30

9.42'

def = 18°00'01"
POC

F1.37
5.73
87.10 87.10

F0.79
7.21
88.00 88.00

9.42'

def = 90°00'18"
POC.

F0.50
6.30
86.80 86.80

F0.72
7.03
87.75 87.75

C B B Cb =
9.43'
d = 57.29578
A = 70°30'43" Rt. L = 36.92'

C1.96 F0.67
8.46 5.83
86.50 86.50
5'

87.00

F0.85 (3.17
6.65 0.67
87.50 87.50
5'

2 x 60.05 = BC. SE & SW.
Cb. Ret's. Diamond St. ✓
Cb. R = 30'

Curb
Rough

Curb

L+

E

R+

Curb
Rough

NOYES ST.

B.M.

87.69 - 87.59

E L+T. Diamond & Noyes

T.P.

99.94

??

T.P.

90.67

~~End Cb Inlet SW.
Cor Noyes & Diamond~~

~~87.76 87.76~~

E.C+195

REVISED

L+

E

RT

(56)

Ref FB $\frac{2232}{23}$

6-29-56

Curb

Curb
ROUGH

PAVING GRADES MISSOURI ST.; NOYES

TO OLNEY ST, W.O. 32103

Curb
ROUGH

Curb

FO²⁴

402

0+75

114.26

114.26

113.51

CO¹⁴

290

112.76

112.76

C 2.87

FO²⁹

701

3.85

0+50

114.14

114.14

113.39

CO¹³

277

112.64

FO⁶²

202

112.64

5'

FO²⁴

377

0+25

114.01

114.01

113.26

CO⁰⁵

256

112.51

112.51

C 3.81

FO¹²

775

382

Cb. R=30'

0+10=EG. NE 1/4

C-3' b b c b = 9.13'

SE. Cb. Ret. 5'

113.94

113.94

113.19

CO⁰³

247

112.44

CO³⁷

12.81

112.44

5'

CO⁰⁸

13.98

0+00=EA
Noyes St.

113.89

113.89

113.00

CO²³

253

112.30

112.39

T.B.M.

112.14

50' RP. Hub Wly of E. Mar. Missouri & Noyes

B.M.

87.59

E. L+T. Diamond & Noyes

2349

23

MISSOURI ST.

Curb
Rough

Lt
Curb

E

Rt

(57)

Curb
Rough

2+20

115.00

FO¹²
4.88
115.00

114.24

CO.12
3.61
113.49 113.49

2+00

C3.22
8.11
114.89
5'

FO.12
4.77
114.89

114.14

CO.27 F1.16
3.66
113.39 113.39
5

1+75

114.76

CO.09
4.85
114.76

114.01

CO.32
3.58
113.26 113.26

1+50

C2.82
7.44
114.64
5'

FO.38
4.26
114.64

113.89

CO.32 F1.14
3.46
113.14 113.14
5

1+25

114.51

FO.57
3.94
114.51

113.76

CO.25
3.26
113.01 113.01

1+00

C2.22
6.61
114.39
5'

FO.21
4.18
114.39

113.64

FO.06 F1.61
2.83
112.89 112.89
5'

MISSOURI ST

Corb
Rough

Corb

4

3+30 = W. Lat Rt ✓

114

C 3.86 FO²³

881 472
114.95 114.95
5'

3+20

3+00

115.11

FO²³

488 ✓
115.11

114.20

2+80

C 3.75

FO⁰⁸

894 527 ✓
115.19 115.19
5'

114.44

TP. 118.94

2+60

115.19

FO⁰⁹

510
115.19

114.44

2+40

C 3.02

FO¹⁴

811 495 ✓
115.09 115.09
5'

114.34

6

Corb

Corb
Rough

(58)

FO³⁹

293

113.32 113.32
RP2'E W. Lat.
#Riser RP2'W

CO⁰⁷ F1.68

352 177
113.45 113.45
5

FO¹⁵

346
113.61 113.61

FO¹⁸ F1.66

351 203
113.69 113.69
5'

FO¹¹

358
113.69 113.69
TP.

CO¹⁰ F1.54

369 203
113.59 113.59
5

	Curb Rough	Lt Curb	±	Rt Curb	(59) Curb Rough
Missouri St.					
3 4+30 = <u>W. Lat. Rt</u>					FO.17 1137 111.54 <u>W. Lat.</u> RR 2' E RR 2' W
4+25	113.13	FO.23 2.90 113.13	112.30	CO ²² 1.85 111.63	111.63
4+00	C 1.81 5.41 113.60 5'	FO.42 3.18 113.60	112.86	CO ⁴⁷ 2.57 112.10	F 1.21 0.89 112.10 5'
TR 115.41					
23+80 = <u>W. Lat. Rt</u>	113.98	FO ²² 3.76 113.98	113.23	CO ⁴² 2.90 112.48	CO ¹¹ 12.59 112.48 cb & W. Lat. RR 2' W & E
3+60	C 2 ¹⁰ 6.46 114.36 5'	FO ²⁶ 4.10 114.36	113.61	CO ¹⁷ 3.03 112.86	F 1.59 1.27 112.86 5'
3+40	114.70	FO ²² 4.48 114.70	113.95	CO ²⁵ 3.45 113.20	113.20

MISSOURI ST

BM.

109.75

109.80 ± Hub Olney & Missouri 2232
27

4+99.61 = W.L. Olney St
(4+99.48 Meas)

111.80

CO¹³
193
111.80

110.80

FD¹⁶
984
112.00 110.00

cb. R = 30'
4+89.61 = B.C. NW &
SW. Cd. Refs
Olney St.

C1.94
384
111.90

FO.26
164
111.90

111.15

FO¹⁵ F 1.74
825 8.66
110.40 110.40
5.

4+80 = W. Lat. Rt.

FO 41
1019
110.60 110.60
R.P. 2° E W. Lat.
R.P. 2° W

4+75

112.19

CO⁰²
221
112.19

111.44

FO 18
051
110.69 110.69

4+50

C1.44
410
112.66
5

CO⁰⁷
273
112.66

111.91

CO⁰⁸ F 1.75
124 9.41
111.16 111.16
5.

Ref F.B. 2349
DWG 11963-L

(61)

PAVING GRADES NOYES ST.; REED ST. To

GRAND AVE	W.O. 32103	LT Curb	€	st	Curb	Curb Enough
		F0.26 19.26			F0.29 19.97	
0+75	19.52	19.52	19.89		20.26	20.26
T.P.	21.03					
		F0.88 17.18			F0.48 18.33	C 3.51 22.32
0+55	18.06	18.06	18.43		18.81	18.81
		F0.37 15.93			F0.57 16.48	
0+32.5	16.30	16.30	16.67		17.05	17.05
		C0.68 15.22			F0.46 14.83	C 4.36 19.65
Cb. R=30' 0+10 = E.C. NE 4 N.W. Cb. Ret 5	14.54	14.54	14.91		15.29	15.29
		13.92				14.50
0+00 = N.L. Reed Ave	13.90	13.90	13.90		14.59	14.59

B.M. 12.55 L & D. € Reed & W 147' Line Noyes St. 2349
10

NOYES ST.

Curb Curb Rough

47 Curb Gut

€

€

(62)

Gut Curb Curb Rough

cb, R = 2'
1+47⁰⁹ = EC, NE 8
NW, Alley Ret's

			F1.28					F0.76	C1.44
			23.08					24.12	6.90
	24.36		24.36			24.62		24.88	25.46

20
Alley 8 ft

Alley 8 ft

			C0.42	C0.72				C3.29	C3.28	C1.44
			22.39	22.39				27.54	27.54	6.40
	23.74 ?		21.97	21.67			24.25	24.26	15	24.96

+18'

24.06

C2.65 C2.64 24.46

RP. 5' N.

10

Curb

	FO.51	FO.55	F1.17	FO.05	1+35 ⁰⁹ →	Alley & Noyes	F0.88	F0.69
FO.33	3.02	2.93	22.18	2.93			23.02	3.27
2.67	23.53	23.48	23.35	22.98			23.90	23.96

EC, Alley

bk 12^E

bk 10⁰

bk 7^E

bk cb. face

bk 7^E

cb-bk 5' W
break.

FO.03

FO.01

FO.02

FO.03

FO.04

2.67

22.70

23.03

gut

bk 10⁰

cb, R = 2'

gut

FO.81

2.39

22.18

23.20

23.47

F0.73 C3.79

23.02 27.54

23.75 23.75

1+23⁰⁹ = BCSEA

SW Alley Ret's

0° BK
"X" in Wall

F0.75

F0.69

1+15

22.74

21.99

22.74

23.02

22.62

23.31

23.31

C0.40

FO.62

F0.49

C3.58

0+95

1.71

20.69

21.31

21.31

21.61

TP- 21.43

25.50

21.92

21.92

0° BK

"X" in Wall

NOYES ST.

Curb	Curb		Lt		t	et		
	Rough		Curb	Gut		Gut	Curb	Curb Rough

			F0.48				F0.69	
2+20		25.98	25.55 ✓ 25.98		26.17		25.67 26.36	0 26.36

		F1.79 ✓	F0.46				F1.04	C4.40
2+00		23.84 ✓ 25.63 120K	25.17 25.63 ✓		25.84		25.00 26.04	30.44 26.04

			F0.55				C0.03	
1+75		25.20	24.65 ✓ 25.20		25.42		25.67 25.64	25.64

		F1.96	F0.72				F0.57	C4.11 ✓
1+55		22.73 ✓ 24.69	23.97 24.69		24.94		24.82 25.19	29.30 25.19

	cb							
	F1.05	F1.51	F1.57	F0.54 ¹⁰	F0.04 ⁰⁴			
Alley #	261 23.66 bk.12 ⁵	251 24.02 bk.10 ²	251 24.08 bk.7 ⁵	2204 22.58	2204 22.08	C4.40	C3.90	26.40 20 C1.74 25.90
+18'	F0.55 261 23.16 bk.12 ⁵	F1.01 251 23.52 bk.10 ²	F1.07 ⁵⁰ 251 23.58	F1.24				C0.25 ¹⁵ 5.65 25.40 101
B.G. Alley			bk.7 ⁵ Gut.	23.08	24.32	F0.72	24.12	F0.48 4.42 24.90 bk.5W
			24.32			24.84		

NOYES ST.

	Curb Rough	LT Curb	±	RT Curb	Curb Rough
	C. 1.00	F045			F0 ⁵⁰ C5.55
Cb. R=30'	28.61	27.16			7.72 33.77
O+10=EC. NE &	✓ 27.61	27.61	27.91		28.22 28.22
NW. Cb Refs	4 ^o BK				3 ^o BK

3+50 ¹⁸ =O+00=	27.36				
N.L. Thomas St.	27.35	27.35	27.24		28.04
					28.00 28.00

3+10 ¹⁸ =±					
Thomas St					

def 4=9+4'25					
2+70 ¹⁸	26.77				27.17
P.O.C. P.	26.85	26.85	26.50		27.17
	(meet)				(meet)

C-3=66cb=913'					
10.20	F1.02	F0.36			F0.46 C4.45
Cb. R=30'	25.65	26.31			26.55 31.46
2+60 ¹⁸ =BC.	✓ 26.67	26.67	26.84		27.01 27.01
SE & SW. Cb. Refs.					

	F1.17	F0.91			F0 ⁵⁰ C4.57
2+40	25.15	25.91			26.18 31.25
	✓ 26.32	26.32	26.50		26.68 26.68
T.P. 2956	1 ^o BK				

NOYES ST.

	Curb Rough	Lt Curb	€	Et	Curb	Curb Rough
	FO.06	FO.74			F1.05	C2.94
cb. B = 21	30.46	29.78			29.81	33.80
1+22 ⁷⁹ = B.C. SE 75W.	30.52	30.52	30.68		30.86	30.86
Alley Rets.	21.62					
		FO.44			FO.58	
1+05	30.17	29.73 30.17	30.37		29.99 30.57	30.57
	C1.33	FO.51			FO.53	C3.82
0+85	31.08	29.24			29.65	34.02
	29.75	29.75	29.97		30.20	30.20
	12 BK "x" in walk					32 BK "x" in walk
		FO.35			FO.52	
0+67.5	29.25	28.90 29.25	29.49		29.22 29.74	29.74
	C0.74	FO.16			FO.42	C6.77
0+50	29.49	28.59			886	36.05
	28.75	28.75	29.00		29.28	29.28
		FO.52				"x" in Parcel 32 BK
0+25	28.04	27.52 28.04	28.32		FO.56 2806 28.62	28.62

NOYES ST.

Curb
ROUGH

Curb G

±

±

G

Curb

Curb
ROUGH

CO.27

FO.60

FO.19

C 3.77

1+67

31.57

30.70

31.46

F1.47

F0.47

136

35.32

31.30

31.30

31.55

31.55

0.8K

1.39

1.98

32.81

32.45

FO.60

20.2

17

1.62

FO.64

FO.14

FO.32

32.22

Alley & P.

31.33

30.69

30.69

31.34

31.34

FO.33

31.33

30.83

31.36

31.66

1.62

+18'

31.95

FO.75

F1.04

13.34

B.C. Alley

30.97

30.22

30.97

30.26

0.35

31.69

Ch. R = 2'
1+46²⁹ = EG. NE.
& NW. Alley Ret

30.97

FO.75

30.22

30.97

31.12

30.26

31.27

F1.01

CO.88

3.30

32.42

31.59

3.68

32.09

Alley & P.

30.96

FO.35

CO.01

30.61

30.64

30.96

30.60

CO.20

CO.01

33.30

33.30

31.20

31.29

15.1

CO.92

32.50

31.58

+18'

FO.82

30.90

F1.12

CO.49

1.83

31.34

EG. Alley

30.60

29.78

30.60

1+34.79 → ± Alley & Noyes

RP.5'N.

29.81

30.93

FO.58

0.42

31.00

bk. S.W.

NOYES ST.

B.M.

Lt

E

Rt

(67)

Curb
Rough Curb

Curb
Rough

36.34 - 36.10 P.K. & Grand & Noyes

12.54 - 12.55 (Re-Check)

B.M.

2+69⁵⁸-S.L.
Grand Ave

35.04
34.88
(Meet)

34.80

34.78
34.65
(Meet)

F0.50[✓] F0.73

F0.63 C1.86[✓]

33.92 33.69 ✓

33.62 36.11

34.42 34.42 ✓

34.34

34.25[✓] 34.25

2+59⁵⁸-B.C.5E
& S.W. Cb. Refs
Grand Ave

15²8R

4²8K

F0.58

F0.54

2+29

33.02

32.44[✓]
33.02[✓]

33.03

32.46
33.00 33.00

C0.50[✓] F0.37

F0.57 C3.57[✓]

32.74 31.87

31.76[✓] 35.90

32.24 32.24[✓]

32.29

32.33 32.33

2+09

F0.50

F0.31

1+89

31.74

31.22[✓]
31.74[✓]

31.83

31.60
31.91 31.91

T.P. 34.38

54" STORM DRAIN NOYES ST.; GRAND
AVE TO DIAMOND ST. W.O. 32103

1+18

1+00

0+75

0+50

0+25

TRANSFERRED
TO G 364

Make Connection
0+00 = N.L. Grand Ave

27.24

B.M.

5

4

1 2+25

1 2+00

2 1+75

1 1+54.86

30.81

1+44⁸⁶ = ~~4~~ Conc.
Support

30.55

1 1+34.86

30.29

3+40

3+15

2+95

2+75

2+5.586

2+4 - 18⁵ Lt.
¢ Cb. Inlet N°1
Type "H"

43.80
18⁵
Gut.

35.50 35.50
18⁵ 0
Inlet Outlet
Elev. 18"

37.15

35.96

34.96

34.18

4+75

46.28

4+55

45.59

4+35

44.71

4+15

43.63

3+90

3+65

5790

5765

5740

5715

4795

4787 & Contg. ETC.

7+40

7+15

6+89⁰⁹ 4 Type "C" C.O. No 1

48.79	60.80
0	0
F.L.	TOP G.O.

6+65

6+40

6+15

8+65

8+39⁸⁶

50.28

8+37⁸⁹ = $\frac{1}{2}$ Comp. ENG.

8+15

7+90

7+65

10+15

9+90

9+65

9+40

9+15

8+90

11+65

11+40

11+15

10+90

10+65

10+40

12+90

12+65

12+40

12+15

11+89⁸⁶

58.61

11+87⁶¹ & Conc. Eng.

14+00

13+75

13+50

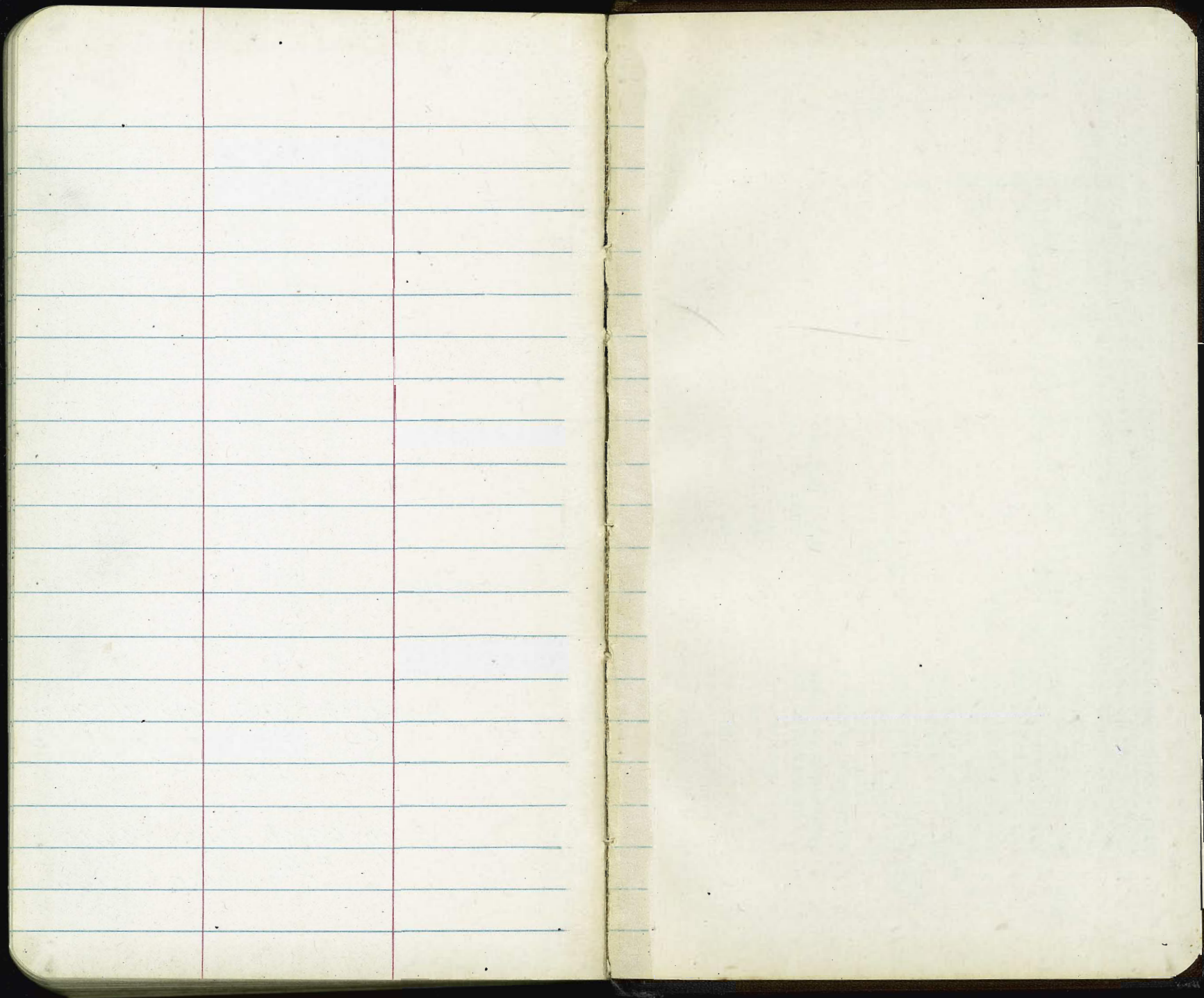
13+25

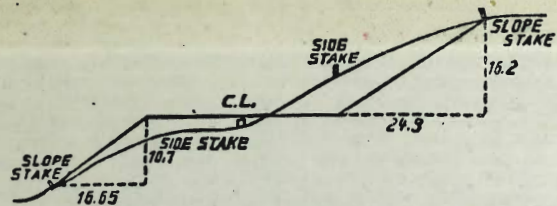
12+98⁷⁸ E Type B-2 Cb. Inlets
N^o 2 Rt; N^o 3 Lt. (16')

73.72	74.55	74.18	75.01	67.50	74.99	73.66	75.01	74.18
G	Cb	G	Cb	30 ₂	Cb	G	Cb	G
↖ N ↗	↖ S ↗	↖ S ↗	↖ S ↗	F.L.	↖ S ↗	↖ S ↗	↖ N ↗	↖ N ↗
				Inlet				

12+98⁷⁸ E Type "C" C.O. N^o 2

67.00	62.00	74.30 ²⁰	66.00
F.L.	F.L.	0	Inlet
Inlet	0	Top Co.	18"





DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE $1\frac{1}{2}$ TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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