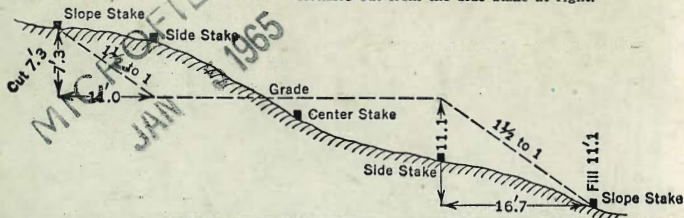


2284

WABASH SECT. 8

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
 Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

KEUFFEL & ESSER CO., N. Y.

2284

INDEXED
 Completely
 DEC 8 1954

The paper in this book No. 373A
 is made of 50% high grade rag stock
 with a WATER RESISTING surface sizing.

DI
 In the fi
 from the
 Cut 7.3
 M

Outer
 Fill
 0
 1
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THE WATER RESISTING CURTAIN
 IS MADE OF SAND AND GRAVEL
 AND IS 10 FEET THICK

Wabash Blvd. 76+0 to 97+55.01.	1-11
South East Outer Conn to Market St.	12-18
South West Outer Conn to Market St.	19-23
Market St. 0+48.87 to 25+0	24-27
Market St. Left Lane	38-41
South East Inner Loop At Market St.	42-45
South West Inner Loop At Market St.	46-48
North East Inner Loop At Market St.	49-51
North East Outer Conn. to Market St.	52-57
South East Outer Conn. to Federal Blvd.	58-67
South West Outer Conn. to Market St. North + East	68-72
Concrete Crib Retaining Wall 90 to 95	75-

Grades Hobart Boulevard Section B

M.O. 22071

Sheet 19

1

	Super Slope	Hinge	E.P.			E.P.	Hinge		
78+0	01084 Edge 111 RA 02 R 1/2 1/4 130 137 -0.7 108.8 103.6	18.7 130 31.7 58	78.25 78.13 45	2.82 -18.6 2.95 3.75 2.94 2.77 2.77 2.1	343 77.52 9	4.12 77.1 76.52 9.0	77.36 77.12 73.33	8.19 34	
+7.5	Lt. Edge Pav BM 80.78 17 80.95	J.F. 1761 79+052	3.42	8.23 7.25 4.52 4.58 4.83	431 76.64 9	8.65 76.66 9	76.42 76.18 33	9.13 7.5 9.88	
+5.0	02 1/2 1/4 11.1 149 0.8 103.3	171 76.67 282.56 98.3	4.50 -16.9 11.1 45	4.75 5.79 4.98 5.73 33 21	522 75.23 9	6.23 74.73 75.73 9	75.49 75.25 33	10.06 7.5 10.81	
+2.5				5.55 7.2 6.2 33	5.50 6.2 75.0 75.06 21	6.13 74.82 9	10.49 74.82 9	74.58 74.34 33	10.97 7.5 11.72
77+0	02 1/2 1/4 111 RA 159.54 Bt Ford Page 22			6.52 7.2 74.42 33	6.76 7.5 74.19 21	7.02 73.95 9	8.00 72.78 73.95 9	73.71 73.47 33	11.84 7.5 12.52
+7.5				7.65 7.2 73.10 33	7.59 7.5 73.36 21	7.83 73.16 9	12.19 73.12 9	72.86 72.64 33	12.47 7.5 13.22
+5.0	02			8.13 7.5 98.8	8.37 7.5 72.82 33	8.61 72.34 9	7.83 71.34 72.34 9	72.10 71.86 33	7.29 7.5 8.04
+2.5				7.207 33	7.183 21	7.159 9	7.55 71.59 9	7.135 7.11 33	8.94 7.5 8.72
76+0	02 Opp 1/2 1/4 0+05 EOC for Market	"G"		71.38 33	71.14 21	70.90 9	6.99 70.90 9	70.66 70.42 33	EOC
									Bt Ford #2285-12

	Super Slope	Hinge	F.P.		F.P.	Hinge	
+50	02		419 8485 44	443 75 8463 33	467 567 8415 9	699 7.33 8579 21	7.47 8555 33 85639 45
+25		H.F.P. 80.95 T 17 8078 799 8877	170 8412 33	424 5.8 8388 21	518 8264 9	767 790 8512 21	8.14 8488 33
80+0	02	F.P. West Side BM 80.78 804 8882	516 8383 44	542 615 8337 21	564 8263 9	664 8466 9	0.65 8442 21
+75			574 8303	598 678 8279 21	622 8255	143 8388 9	113 8418 33 8402 45
450	02		632 8267 44	656 75 8231 21	680 780 8197 9	780 8210 9	2.21 8286 21
+25			698 8179 33	722 797 8155 21	746 8131 9	309 8222	3.33 8174 33
79+0	02	1:1 1/3 1/4	765 SMOC 8112 33	789 847 8088 21	813 713 8064 9	713 8133 9	3.98 8109 21
+75			0.52 75 1.33 8038 33	0.81 75 8014 21	105 7990 9	491 8040	4.46 8085 33 7992 45
78+4968		0.146 Edge .02 R. Opp 1/4 1/6 9+3432 RC SYOC. Page 23	7928 5714	7963 33 7939 21	7915 9189	5.85 7815 28 7946 9	6.09 7898 33 7882 45
+25			213 7883 33	227 75 7858 21	7834 9	2.61 7853 9	6.38 7805 33 7826 45

F.P. Side
85311
0.65
IP 84.66
8326
93.03

Hobart Blvd.

Sheet 16

3

E.P.E. Side
9202A

Super Slope		Hinge	FP	d	FP	Hinge	
	115/10X						
+67.57	019 Opp. 1:1 894.94 S.E.L.	27.4 146 128.8767 59 898.	27.7 146 128.1 45 45	8677 9	85.77 9	89.62 9	3.40 out 89.39 21 89/16 S.E.L. 33 Page 45.
+50	02	148 8734 45	166 75 271 33 15 21	86.18 9	85.68 9	89.49 9	3.53 377 25 89.25 21 89.01 33
+25		1.80 8702 450	1.86 75 261 33 283 21	86.48 9	85.22 9	89.22 9	3.80 1.04 75 88.98 21 88.74 33
87+0134	02 Opp. 1 1/2 078.80 S.E.L. Page 46	12.15 86.67 4736	2.04 75 277 33 286 21	86.29 9	85.29 9	88.93 9	4.09 4.33 75 88.70 21 88.45 S.E.L. 33
+75		2.24 86.48 33	2.58 75 333 21	86.00 9	85.54 9	88.54 21	4.18 4.71 75 88.30 21 88.06
+50	02 1 1/2	2.62 86.20 33	2.86 75 321 31	85.76 9	84.72 9	88.15 9	4.37 5.11 75 87.91 21 87.67 33 87.45
+25		2.97 85.85 33	3.21 75 376 21	85.37 9	87.68 9	88.15 21	5.45 5.34 5.58 75 87.44 21 87.20
81+0	02 1'	3.31 85.77 44	3.56 75 411 21	85.02 9	84.02 9	87.20 9	5.82 6.06 75 86.96 21 86.72 33 86.50 45
+75		3.73 85.09 33	3.97 75 472 21	84.61 9	86.63 9	87.20 21	6.39 6.64 75 86.39 21 86.15 33 6.87

Super Slope

Hinge

E.P.

2

E.P.

Hinge B&B/Dirck

4

84406.79 L&M Market

79.71 old par.

E.P. West Side
92.16 T

E.P. Fly Side

93.02
3.00
90.02
4.20
91.88
3.63
871 90.63
D/W
1/2 zone
Overpass
(90.62)

+33.68 - Sky over Pass

+25

87.70 87.46 87.22 86.98
45 33 21 9

3.07

89.95
9

89.71
21

89.47
33

89.21
45

3.81

83+0

02 L

029 R 1:14

27.3
6.0
62.3
78.3

87.81
57

451

87.50
45

87.25
45

475

87.41
33

499

87.07
31

523

86.98
9

623

85.93
9

89.85
9

3.17

89.61
21

341

89.37
33

345

89.02
45

345

89.02
45

3.81

82.17
72.09

+75

11510 B. + Ford
2258 45

87.50
45

87.29
33

87.05
31

86.81
9

86.81
9

89.67
9

89.43
21

89.22
33

89.02
45

89.02
45

89.02
45

89.02
45

89.02
45

89.02
45

89.02
45

89.02
45

Super Slope

Hinge

F.P.

7

F.P.

Hinge

5

8640 02 1/2 1st 8.8 30.9 51.6
 11.2 3.8 2.8
 2.4 0.2 0.2
 3.6 8.6 50.5
 85.99 85.62 85.45 85.41
 39 39 33 21.6
 126 225 126 73.1

+90.85 1.7R 140
 +75
 TP 1.47 116.91 1204 11044
 1.1R 3.6 2.8 36.9
 7.7 7.7 7.7
 1.1R 3.6 2.8 36.9
 7.7 7.7 7.7

+50 02 1/2 1st 8.8 30.9 51.6
 11.2 3.8 2.8
 2.4 0.2 0.2
 3.6 8.6 50.5
 86.68 86.52 86.32 86.08
 39 39 33 21.6
 109 558 558 75
 6.57

+75 86.84 86.61 86.37 86.15
 44.5 33 21 577
 0.2 5.29 5.53

8540 02 1/2 1st 11.1R 12.2 35.2 55.1 6.28
 12.6 12.2 12.2 12.2
 2.0 0.2 0.2 0.2
 3.0 8.0 56.5 45 45 33 21
 505 5.29 6.04

8M 1.27 122.48 121.21 N.E.L.

84 + 79.20
 07 1st R.H.W.
 N.E.L.

8517 8417 87.81 87.57 87.33 86.93 5.00
 9.17 7.73 9.42 9.26 33.40 45.63
 5.75 5.25

87.15 35.7 35.7
 88.26 88.02 87.78 87.50 44.5
 9.37 21 33 45

8584 8484 88.65 88.41 88.17 87.93 87.71 83.8
 9.66 7.06 7.22 21 33 2.6 45 40 57
 88.8

89.00 88.76 88.52 88.28 3.65
 9.29 21 33 45

8637 8537 89.29 89.05 88.81 88.57 88.35 83.8
 9.53 6.53 9.26 21 28.8 33 3.2 45 45 57
 3.6 3.87

EP Post 1st lot
 8M 74.22 90.0
 11.3 0
 91.93 85.52 74.22
 131 11.3 131
 90.5 11.3 85.36 87.41
 8M 11.3 6.57 91.93

8TP 100.46 Page 33
 2.00
 102.46
 2.00
 100.46
 12.60
 113.06
 10.31
 112.75
 10.88
 123.81

Page 49 For Check

359 4.4
37.5 7.06
83.5 93.5

83 9.9
-1.6
88.8

EP out 91.90

141 11.1
141 11.1
57 8.0
57 8.0

Nabash Blvd.

Sheet 13

6

	Super Slope	Hinge	FP	2	FP	Hinge						
+75	0142 Rt 0625 Lt Daylight 1076	-2.3 0.4 -2.7 507	-23 +23 0.0 44	8178 33 3.26 21 3.34 4.09	8170 21 3.41 9 4.41	8163 8063 8329 8322 8305	E.P. Grader 8903T 409.1252 F17106 Lt US 2 Cor 7422 10.82 89040 85.04					
TP	0.52	79.57	13.80	79.05								
+125.3 E.C.	014 Rt 0133 Lt 1/2	11.4 122 -1.5 50	9.7 11.4 F17 33 13.6 44	8218 8252 33 21 2.52 3.27	8236 8436 8428 8412 8394 33 2.68 2.04 0.76 0.92 1.47	765 781 756 799 51 26 33 1.10						
+25					3.27	3.80	1.72					
TP	0.46	92.25	12.98	91.89								
87+0	019 1/2 Lt	80 32 -0.4 560	20.9 56 12.9 44.5	83.81 8382 8335 8225 8557 8620 8507 686	8335 8225 8557 8620 8507	8020 8507	Edge Pav Lt 74.23 12.38 86.68 84.45 86.15 57.5 91.90					
+75				224	8436	8411	8387	8617	8593	8569	6.24	
TP	0.80	104.87	13.84	104.07								
+50	02 1/2 Lt	124 153 -29 813	31.9 124 12.5 56.3 46.5	8482 8458 33 708	8434 8334 8677 8653 8629 33	9.273 5.76 9.013 8160.5 6.75	8617 8593 8569	6.24				
+25				8534	8526	8502	8478					
86+20.63 = opp 21/2				370	33.64	21.68	9 713					
0-0 N.E.L.								87.35 9 458 5.57	8711 21 483 26 5.57	8687 33 5.06 7.5 5.87	8637 47.08 5.66	NEIL 209049

116.91

	Super Slope		Hinge		F.P.		Z		F.P.		Hinge		
90+0	0458 Rt. 0546 Lt. CUL.	24. 6.9 -3.6 20.8	24. 24. 5.0 55.8	7227 44	18. 27. F04. 33	7287 33 33511	7253 21445 33	7418 330	7318 48°	7426 9.573	7492 2636 9.81	7536 33 2.62	H.E.O.C.
+75													
TP	055 Rt. 2.7 0437 Lt.	74.63	7.65	71.97	103 33	7390 33 32821 1.22	7450 222	7509 9.282	7409	7533 9.265	7594 21205 2.80	7632 33	111 7263 1322 61.47 0.57 6178 7.90 5.98 57.03 5.14
+53332	85 D.L. 0.2 Lt.	51 7.6 -25 80	51 51 50 64	74.44 44	F04. 33	7491 33 752	7542 21824 752	7597 9.125 12.5 6.9	7497 732	7626 9.603	7678 21581 3.21	7711 33 518 33	119 127 F08 33
+25													
89+0	023 Rt. 029 Lt. 1/2 Lt.	277 282 -0.5 86.5	27. 27. 25.0 81.5	76.85 44	22 27 F25 33	7717 33 33513	7752 21477 14387 5.53	7786 9.112545 12.5 9.0	7686	7855 9.874	7820 21322 4.74	7910 33 319 33	99 96 6.02 33 78.86 10.16 87.02
+75													
750	01 Rt. 015 Lt. Day Light 0.2 Lt.	0.6 3.7 -3.3 5.7	10.6 0.6 9.0 4.87	78.95 44	10.5 0.6 F01. 33	7911 33 3.18	7929 21000 2.82 3.22	7947 9.96 2.82 6.9	7847 3.82	8060 9.169	8028 21151 12.2	8085 33 33.44 33	82 73 6.02 33 74.22 8.97 82.397
+25													
88+0	0016 Rt. 0025 Lt. Day Light 0.2 Lt.	-1.3 -3.3 -3.3 5.7	-1.3 1.3 0.0 5.7	80.87 44	-1.3 1.3 F01. 33	8000 33 5.04	8010 21 4.94 5.67	8021 9.83	7921 5.83	8154 9.350	8164 21 3.40 7.5	8165 33 3.391	66 4.9 61.7 33 82.38 44
		79.57											

X85.04

Nov 24 53
H. P. 1867
Gor. 1867
Chipman
8
Jun 9 54
Fin 5501.

Super Slope
Hinge
F.P.
818
246
246
8.85 274
1.74 102
102
0.54 92
92
93 + 0 05 Pt
06 Lt 1/21 out
-5.6
8.5
F 91 63.66 64.22 F 77 65.04
57.7 44 33 33 21

Hinge
F.P.
818
246
246
8.85 274
1.74 102
102
0.54 92
92
93 + 0 05 Pt
06 Lt 1/21 out
-5.6
8.5
F 91 63.66 64.22 F 77 65.04
57.7 44 33 33 21

+75
12.65
65.33 66.05 66.77
33 21 7

10.01
67.49 67.77 67.97
21 9 33

+50
05 Pt
06 Lt
-5.6
4.8
F 107 65.72 66.28 F 111 67.10
59.6 44 33 33 21 7.5
8.23 8.36

10.15 11.15 10.25 9.65
10.1 7.2 8.96
67.82 66.82 67.82 68.54 69.02 70.1
9 9 9 21 33 9

+25
10.54
67.46 68.18 68.90
33 21 9

7.88
67.90 68.90 69.62 70.10
9 21 33

9140 = ORP
0400 SEOC to Federal
05 Pt
06 Lt
-7.8
8.2
F 110 67.87
88.0 44 33 33 21 7.5
6.08 5.41 6.75

7.88
67.90 68.90 69.62 70.10
9 21 33

BM
6.24
66.08
55.84
HXP
Federal
1000

7.88
67.90 68.90 69.62 70.10
9 21 33

+90 = ORP
1477.50 PTH SEOC
05 Pt
06 Lt
out
68.30
44
68.96
33

4.5
70.40 70.40 71.60 out
9 9 33

+75
8.38
69.10 70.22
33 21

5.71
69.4 70.04 71.04 71.64 72.24
9 9 21 33

Start + Super
Slope
05 Pt
06 Lt
-9.9
10.6
F 115 70.07
70.8 44 33 33 21 7.5
75.3 39.3 32.5 39.6

4.6
73.15 73.15 73.12 73.84 73.32
9 9 9 21 33 33

+25
62.9 71.78
33 21

3.13
73.15 73.15 73.19 73.89 74.55
9 9 9 21 33

Edge Pay
HXP
Federal
1000
BM 53.81
13.20
67.04
66.50
66.54
66.50
76.74
12.75
77.98
12.85
63.33
21.17
67.50

Super Slope	Hinge	EP	2	EP	Hinge	9
+9.4 Conc G.I.B.H.						
+5.0	42 9.6 F 8.4 53.1	5.14 3.6 9.6 55.87 44	1.4 1.4 5.7 21	3.72 4.72 5.72 6.52	3.72 3.72 5.72 6.52	5.1 8.7 33 33
+7.5						
94+0	3.0 3.8 F 8.4 52.7	2.96 3.3 F 6.5 44	3.24 3.92 5.84 33	2.52 3.52 5.84 6.0	2.52 3.52 5.84 6.0	3.9 6.8 F 3.9 33
+7.5						
+5.0	1.6 2.7 F 6.1 53.2	0.9 2.7 F 6.8 53.2	8.86 5.28 F 8.8 33	6.92 7.92 10.58 10.58	6.92 7.92 10.58 10.58	2.6 F 2.4 33 2.6
+2.5						
92+0	0.0 6.4 F 6.4 53.1	-0.6 6.4 F 7.0 53	6.85 6.4 F 7.0 33	6.85 6.4 F 7.0 33	6.85 6.4 F 7.0 33	1.6 2.6 F 1.5 33
+7.5						
92+50	0.5 RA 0.6 LT -1.7 1.2 F 8.0 53.0	5.07 -2.4 61.77 44	6.85 6.4 F 7.0 33	6.85 6.4 F 7.0 33	6.85 6.4 F 7.0 33	-0.6 0.6 F 0.8 33
+2.5						

Finish
74.617
77.83
63.338
1.16
64.547

EP
76.147
71.86
64.38
6.21
64.497

#2 F 7.0
67.507
6.73
6.58
1.12
61.717
Corrected
81.597

Conc G.I.B.H.

Super Slope

Hinge

EP

2

EP

Hinge

9

Super Slope

Hinge

FP

Z

FP

Hinge

10

Finishes
64.541

Corrector
#25 F205
215
5084
783
81.69A

same Next Page

9640

.06

4.26	7.82	745	541	1.89	7.39	6.89	1.03
4.49	3.91	786					2.52
F0.62	53.31	5386	4.49	5458	9.9	5530	5430
7.28	422=cb	33	F0.58	21	9	9.24	8.54
			33				7.80
							33
							7.29
							33
							57.17
							45.7=cb

0.50
2.52
F3.22
45.4

+75

7.89

54.20	7.52	54.92	55.64	55.64	56.36	57.08
33	21	9	9	21	33	

E.P.
64.49A

+50

.06

3.98	7.16	3.19	7.14	5.67	1.67	5.67	7.0
4.49		4.49					1.41
F0.71	53.99	5458	5530	56.01	55.02	56.02	56.72
42.9	42.9=cb	33	F1.35	9	8.52	9	57.46
			33				F4.1
							33
							33
							7.08

+25

814

3.92

57.77

6.69

55.00

33

55.77

56.44

9

56.44

9

56.44

9

57.16

21

57.88

33

4.1 cost

9540

.06

54.93

42

55.47

33

55.00

56.19

33

56.19

9

56.91

55.91

56.91

9

57.63

21

58.35

33

58.35

6.1

1.03

F4.1

33

+75

57.1

55.98

33

55.77

56.19

4

57.10

57.22

42.9

4.27

57.42

9

58.14

21

58.86

33

Wabash Boulevard

Super Slope

Hinge

EP

2

EP

Hinge

11

97+65.01 4 head. 03268

97+55.01 EC Back 03268

52.61
44

8.08
53.2
21 54.13
33 10.32
114.5 EP

54.13 54.57 55.01
9 21 33 9.55
10.41 9.97 9.75

55.41
44

BM 53.84
69.6
60.80

+25

045R 1 1/2 IR
048L 2 1/2 IR

52.47
44

8.63
8.25
8.80 53.2
7.47
53.06 21 54.22 53.22
33 9
114.8 out 10.32

7.47
54.22 54.76 55.30
9 21 33
10.32 9.78 9.24
out out

55.80
44

F.7.154
64.547
10.176
BM 53.8
Federal
Bridges
(old)
53.84
F.7.154
61.69x

97+0

0513R
0527A 1 1/2 IR

8.3
14.3 57.50
F 6.0 44
53.0

7.22
7.78 8.63 8.75 8.71 7.37 8.24 7.37
14.3 53.06 21 54.35 53.35 54.35
33 9 9
114.8 11.52 10.09 10.09
out

54.35 54.97 55.58
9 21 33 8.96
10.32 9.57 8.96
out

56.04
44

4.8
12.8
F 8.0
56.0

+75

8.53
53.16
33

7.25
8.63 53.84
21

7.16 7.15
54.53 55.20 55.87
9 21 33

+50

059 1 1/2 IR

52.79
41.78

7.66
8.57 8.47 54.03 6.95 7.25 6.95
53.35 21 54.74 53.74 54.74
33 9 9
11.22 10.51 9.80
out

6.95
54.74 55.45 56.15 1.62
9 21 33 F 1.90
9.07 8.37 33

56.80
44

0.97
3.52
F 2.55
1.46

+25

8.13
53.56
33

7.41
8.75 54.28 55.00
21 9

6.69 7.37 6.39
55.00 55.78 56.44
9 21 33

96+0

06

7.83 53.86
33

7.16
7.83 54.58 55.30 54.30 55.30
21 9 9

6.39 7.37 6.39
56.02 56.74
21 33

Grader South East Outer Connection
to Market St.

Sheet 17

April 30-53
H. S. Sear
Garber
Chipman
Part
Keller
12

Super	Slope	Hinge	EP	EP	Hinge	EP	Hinge	EP	Hinge	
+87.40	0.37 RS.		6.14 76.26	out 75.82	8.4 11.0 1.6 6	6.58 6.99 10.4 6	7.541 17	8.8 14.0 2.2 20.3	11.0 10.3 10.7 25.3	6.99
+7.5			5.0 75.83	6.00 75.45					BM 80.78 0.62 81.45	8.00
+5.0	0.25 1/2:1 ft		7.43 71.97	6.78 74.67	9.6 13.5 3.9 6	7.73 8.00 10.27 6	74.40 17	9.8 13.5 3.7 22.6	13.5 13.0 10.7 27.6	8.00
+2.5			7.13 71.13	7.57 73.88						
TP		3.97	84.23	12.98	80.26					
+1.0	0.2 1/2:1 ft		9.07 73.31	8.33 73.07	20.2 4.5 15.7 6	9.37 9.49 10.2 6	73.91 17.5	20.3 4.5 1.58 26.4	1.5 2.4 10.7 30.4	9.49
+7.5			8.9 72.55	9.17 72.28						
TP		8.14	93.24	0.20	85.10					
+5.0	0.2 1/2:1 ft		10.62 71.78	9.91 71.54	13.8 11.6 2.2 6	10.88 11.02 10.16 6	71.38 17.5	13.2 11.6 1.6 18.7	11.6 11.4 10.2 23.7	11.02
+2.5			10.3 71.07	10.63 70.83						
TP		12.33	85.30	0.19	71.97					
0+0.0	0.2 Opp 17		11.98 70.42	11.27 70.18	2.0 12.26 10.26 6	12.26 12.28 10.16 6	70.02 17.5	2.2 1.2 1.0 18.6	1.2 0.8 1.2 3.6	12.38
TP		12.76	72.16	0.28	59.40					
TP		13.17	39.63	1.16	46.46					
BM		11.00	47.62		36.62	NE BORN SOUTH BRIDGE	FINISH BM			
							1.62	82.40	80.78	SE D S 1010 79+0.5

Super Slope

Hinge

FP

2

F.P.

Hinge

13

+58.33 0.12 PSS 1/2 RT
 12.3 22.5
 12.3 12.3
 6.0 82.96
 372 C10.2
 22.2 12
 9.83
 9.0
 22.8
 12.3
 C10.2
 6
 4.14
 10.7
 9.0
 81.82
 6.25

793 245. 117
 80.14 25.3 87
 8 C19.2 C3.9
 8 8 79.18
 19.5
 25.1
 5.2
 C20.1
 296
 5.2
 12.7
 8.2
 0.0
 346 21.5

+50 0.12 111 RT 1/2 RT
 0.57
 81.83
 12
 81.59
 6

Finish TP
 9.64 91.89 0.15 82.25
 0.4 79.91
 7.99 78.95
 19.5
 0.4854
 F.P.
 5.2
 80.78
 8.29
 88.87A

+25 TP 22
 12.17 104.60 4.56
 111 RT
 207 16.7
 2.07 11.2
 0.6 C3.6
 12 17.6
 12
 228 16.9
 2.07 11.2
 0.6 C3.6
 6 6
 80.88
 6
 7.19
 7.95

42 148 9.79
 79.28
 7.85
 80.78
 5.2
 85.96

3+0 0.106 1/2 RT
 207 16.7
 2.07 11.2
 0.6 C3.6
 12 17.6
 12
 228 16.9
 2.07 11.2
 0.6 C3.6
 6 6
 80.19
 6
 7.95

9.39 2 7.28 18.3 3.72
 78.68 20.2 13.2
 7.54 7.5 7.5 77.83
 19.04 28.9
 19.21
 20.3
 C19.5
 339 level
 4.57
 11.27
 C3.2
 20.6

+75 0.04
 87.6
 79.51
 6
 111 RT
 43 78.4
 78.10
 7.05

9.97
 78.10
 7.05

+50 0.073 1/2 RT
 38.0 18.4
 3.4 9.9
 0.5 78.60
 12.5 C3.5
 30.5 12
 395 18.4
 3.4 9.9
 0.5 78.45
 6 C3.5
 8

10.54 48.7 19.5
 77.53 4.4 C15.7
 6.54 6.54 7.5 76.95
 18.04 26.2
 20.0
 3.8
 26 5.45
 7.12 0.75
 312 20.5

+25 0.04
 77.58
 6
 10.4
 76.89
 6.19

11.18
 76.89
 6.19
 F.P.
 81.45A

2+0 0.425 1/2 RT
 5.52
 76.78
 12
 5.70
 76.70
 6
 4.75

5.25 76.19
 6.02 6.21
 6.55
 70.2
 75.85
 17.52
 6.55

TP 12.84 96.99
 84.23 0.08 84.15

Finish 82.40

South East Outer Corn. to Market St.

	Super Slope	Hinge	F.P.		F.P.	Hinge	
+37.34	0167 B.C. Lt 1/2 Rt	14.8 out. 85.16 13	14.9 85.13. 6		15.1 out 85.23. 6	15.2 85.10. 17.5	F.P. 88.07 T
+29.20	0233 P.T. 1/2 Rt	7.9 14.9 19 240 19.0	15.0 7.9 19 85.35 12 6	2.7 85.30. 6	3.5 out 85.02. 6	15.3. 6.9 11.3 6 84.83. 17.5	15.5. 11.3 7.1 6.2 19.6 24.6
540	047 1/2 Rt	11.1 Lt 14.2 15.1 14.3 78.1 13.1	7.0 17.7 15.5 14.3 17.3 12 6	7.1 17.7 15.5 14.3 84.87. 6 325	3.82 84.25. 6.12	16.0 7.6 82.87. 17.62	16.4 14.1 8.0 10.7 8.4 199
+75				369 84.38. 6	4.52 82.55. 6.40		
IP		7.77	1208	92.52			
+50	086 1/2 Rt	11.1 Lt 20.5 22.5 2.0 25 7.80 6.3 135	20.5 20.5 20.0 84.09 12	20.7 20.5 83.92. 6 8.0 6.7 6	4.15 5.26 82.81. 8.86 6.02 82.05. 7.09	21.8. 10.7 11.7 6.9 82.12. 18.36	22.5 13.7 10.7 5.2 9.8 2.7
+25				4.65 83.42. 6			
440	118 1/2 Rt	11.1 Lt 13.3 12.3 23 25.2 20.2	8.8 21.5 13.3 83.10 12	21.7 13.3 83.86. 6 5.31	6.77 81.30. 7.76	23.3. 3.0 80.36. 19.76	24.2 3.0 3.0 3.0 3.0 3.0
+75				5.82 82.35. 6	7.48 80.59. 7.96	91.89	

	Super Slope	Hinge	EP	1/2	F.P.	Hinge		
+50	0625 1/2 11 00 RT 11.1 take out 11.1 L 88.07 EP 87.46 11.28 99.2	11.1 3.1 110 3.1 52.7 88.27 13	11.8 24.7 9.85 89.10 6	9.09	390.57 76.52 90.15 6	52 3.2 6.0 17.5 7.6 7.6 10.1 38.0	91.89A 88.78 88.70 95.88 1.22 94.39 6.77 10.71	
+25	TP 13.10 1/2 11 0775 1/2 11 00 RT	123 47 7.6 12.1 12 15.8	116.00 88.44 88.29 6	10.4 10.95	9.57 10.08 89.16 6	265. 13 17.5 30.1	199.5 570 PM 113.57 0.85 114.12 12.83 10.49 0.30 10.59 91.06 9.33 160.37 11.07 86.27 89.56 8.77 80.78	
+75				11.45	10.61			
+50	0625 1/2 11 00 RT 1/2 11 L 8.7 5.1 13.2 6.2 7.0 15.5	8.7 5.1 13.2 6.2 7.0 15.5	8.6 13.1 6.2 6.7 87.21 6	11.23	11.18 282.78 13.0 25.2 88.06 6	277. 3.6 17.5 29.9	7.3 6.0 30 17.5 3.4 34.9	89.56 8.77 80.78
+25				1.21	0.61			
+0	0325 1/2 11 00 RT 1/2 11 L 9.5 16.1 13.7	11.0 7.5 6.5 15.3 12	9.4 13.9 6.1 7.5 6.7 86.45 6	1.62	1.23 29.4 13.4 16.0 86.84 6	29.1 12.4 11.1 25.4	8.8 3.2 0.56 30.5	
+75				2.03	1.87			
TP	11.27 1/2 11 L 0666 1/2 11 00 RT Down Drain on RT	11.0 14.7 8.4 15.2 12.9 12	104.97 148.63 8.3 6.8 85.44 6	2.43	2.51 85.56 6 6.3 6	21.1 14.9 0.6 17.5 6.4	21.1 14.9 0.6 20.6 25.6	6.1 0.0 0.64 20.7
+50								
TP	10.61 100.29	106.61 4.29	96.00 63 15 0.18 6					

South East Outer Conn. to Market St.

Station	Super	Slope	Hinge	93.98 EP 6.5	6.11 93.13 EP	Hinge
TP		1.50	182.54	3.06	126.04	
9+0	0.456	1.1 L 1/8 in R	10.3 11.2 -0.7 53.3	36.1 10.3 9.00 22.5 48.3	93.22 10.3 125.6 22.5 93.6	93.19
+7.5	F.R. 99.24 T		9.1 10.0 12	9.1 10.0 12	93.23 6.17	7.01
+5.0	0.067	1.1 L 1/8 in R	10.6 8.3 2.3 13.2	37.2 3.3 31.4 44.4	9.191 12	91.90
+4.2	1	R. 5/8 in R				
+37.20	0.0417	1.1 L R. 1/8 in R	4.9 5.1 -0.2 4.2	37.5 1.9 35.1 44.6	91.55 12	91.57
+2.5						
8+0	0.333	1.1 L 1/8 in R	10.6 5.8 5.0 14.5	10.5 5.8 5.0 14.5	90.55 12	90.67
7+85.22	0.441	F.C. 1/8 in	29.0 5.0 34.0 29.0	38.9 5.0 33.9 33.9	90.24	90.0
+7.5						

10.73
8M 128.23
5.36
132.29
7.01
40.6
10.5
10.2
33.2
35.1
Finish
101.16
3.69
TP 97.49
15.01
102.50

8.47
90.77
58.3
41.5
11.6
38.9
3.46
3.48
3.51
17.5
2.9
2.8
10.1
40.1

129.10

9.25 89.99

8.65 90.59

Super Slope

Hinge

E.P.

5

E.P.

Hinge

Hinge

17

11+0 0.76 1/2 100ft.

+92.0 119.02 ft.

+75.

TP

+50

0.105
-8.90 ch on 4 ft.

E.P.

99.22 ft

14.94

BM 84.50

S. 111.02
(84.38)
107.42

F.H.H.

F.0.14

+19.41

0.11
P.55

7 98.48
14

98.26
6

0.78

96.77
7.99

5.12
4.13
0.99
3

96.88-cb
96.21-6d
12.59

812
911
F.0.99

102.507
0.52
101.98
11.32
113.30 ft

10+0 0.107
Begin Curb on 4 ft.

44

98.09
14

43

97.23
6

2.01

3.57

95.77
7.93

6.8 6.98
5.71
c 1.27
3

95.52-cb
94.85-cb
15.95

95.55
19.45

37.7
4.8
c 3.29
3.0. 7.0
4.8
1.2
4.0
7.0

+75

9+50

1:1 L
0.85 1/2 L.R

8.6

87

39.7

8.6

34.1

87.1

7 1/2
10.0
95.44
7.2
93.6
3.6

38.1

8.6

c 29.8

94.93

7.6

20.5

7.15

5

5.4

93.79
7.42

39.5
5.7
7.3
7.42

87
c 1.4
93.11
7.42

10.9
5.7
5.7
3.6

5.7
5.7
4.3
2.0

BM

135

133.28

3.8

128.93

128.86

Apr 29.74

8+37.20

128.93

10.45+
10.45
c 0.02
102.85-cb

2.15
2.15
c 0.02

41.0
9.0
102.85-cb
19.7
3.62
7.15

102.31
7.22

102.18-6d
7.22

102.85-cb
19.7

100.45
7.83

11.9
0.79
c 0.70
100.81-cb
9.63

4.19
4.73
F.0.54

98.57
7.89

3.17
2.57
c 0.90
99.03-cb
98.36
10.98

5.92
3.02
c 0.90
99.10-cb
10.5

34.2
1.3
1.2
1.2
3.80
7.0

Fin 106

102.507
0.52
101.98
11.32
113.30 ft

96.77
7.99

96.88-cb
96.21-6d
12.59

812
911
F.0.99

102.507
0.52
101.98
11.32
113.30 ft

3.57

95.77
7.93

6.8 6.98
5.71
c 1.27
3

95.52-cb
94.85-cb
15.95

95.55
19.45

37.7
4.8
c 3.29
3.0. 7.0
4.8
1.2
4.0
7.0

5.4

93.79
7.42

39.5
5.7
7.3
7.42

87
c 1.4
93.11
7.42

10.9
5.7
5.7
3.6

5.7
5.7
4.3
2.0

132.54

South East Outer Conn. to Market St.

Super Slope	Hinge	E.P.	±	E.P.	Hinge	
		109.62 27.5 const BM 1166.9 58.1 20 Rod 115.7				
20+65.74						
TP 9.10	154.67	5.42	145.57		BM 145.6 0 40° RT 12+01.62 FT. 159.09, 148.52, 150.99, 148.23	
20+50						
12+01.62 PT = OPP 20+39.29 Market St.			109.29	108.99		
475		152.09		107.90		
TP 8.08	150.99	1.91	142.91	107.51 6.09		
11+50	043 1/2 11 RI		104.43	105.95 6.32		
425		144.82		104.96 6	104.23 6.71	

Grader South West Outer Connection
to Market St.

Sheet 15

Super	Slope	Hinge	F.P.	F	F.P.	Hinge		
+44.87	0615 1/2:1 R.	58.11 11	57.85 6		57.13 8	56.62 19.0	-6.4 13.2 F19.6 48.7	13.2 13.7 104 53.4
4.0	0886	55.09 11	54.65 6		53.41 8	52.45 19	-3.2 10.9 F14.1 3	10.9 9.4 13.1 43.7
+60	08	52.51 11	52.11 6		50.98 8	50.02 19.5	-0.7 10.9 F11.6	10.9 10.8 F10.7 40.6
+41.27	End Chen RR					51.41 10		
3.0	03		50.42 6		19.90 8	50.57 10	50.67 20	-0.4 11.6 F12.0 38.0
2+60.13 8+18.92	08+ 1/2:1 R. BC: Opp Rt. Look of Market		48.88 6		48.54 8	49.21 10	49.31 20	0.9 14.8 F13.5 40.3
8.17	2.51	50.25	47.74					

Chase Rd SE
Gr. Bridge
Market St
Chollar

	Super Slope	Hinge	E.P		E.P		Hinge		
4+0	066L 06R 1 1/2' 18'	68.69 12	68.82 6	69.61 6	70.33 18	-22.2 10.8 32.8 18	70.99 29	-22.9 10.6 33.5 79.3	9.9 9.8 10.1 84.3
+50 7	085L 0525R OPSC 12 Feet	64.63 12	64.80 6	65.82 6	66.45 18	-18.3 9.5 27.8 18	67.03 29	-18.9 9.5 28.4 71.6	9.5 9.3 10.2 76.6
+8798 OPP 3+3087 SY 1.6 to N Page 711	044L		64.91 6		65.44 6	-17.3 8.4 25.7 6	65.93 17.0	-17.8 8.4 26.2 58.3	8.4 8.4 8.0 61.3
7P	8.17	18.13	10.29	39.96					
5+0	0058	HWOC	62.03 6		62.10 6	-11.9 13.7 25.6 6	62.18 17.0	-11.9 13.7 25.6 55.4	13.7 13.3 10.1 66.4
4+67.82	027 FC 1 1/2' 18'	59.73 11	59.59 6		59.23 7.6	9.7 13.7 23.4 7.6	58.95 18.16	-8.7 13.7 23.4 51.8	13.7 13.6 10.1 55.6

50.25

	Super Slope	Hinge	E.P.	$\frac{d}{b}$	E.P.	Hinge	
8+0	.0593 1/2:1 Rt	81.54 12	81.43 6		80.59 8	79.94 19	$\begin{array}{r} -32.5 \\ 47 \\ \hline 32.2 \\ 8 \\ \hline 74.1 \end{array}$ $\begin{array}{r} -31.8 \\ 47 \\ \hline 32.7 \\ 19 \\ \hline 74.1 \end{array}$
7+8.77	.045 BCRt	79.93 12	79.84 6		79.21 8	78.71 19.0	$\begin{array}{r} -31.1 \\ 47 \\ \hline 32.8 \\ 8 \\ \hline 74.1 \end{array}$ $\begin{array}{r} -30.6 \\ 47 \\ \hline 32.3 \\ 19.0 \\ \hline 75.0 \end{array}$
7+0	.042	77.12 12	77.09 6		76.84 11.81	76.68 22.61	$\begin{array}{r} -28.7 \\ 9.5 \\ \hline 38.2 \\ 11.61 \\ \hline 79.8 \end{array}$ $\begin{array}{r} -28.6 \\ 9.5 \\ \hline 38.1 \\ 22.61 \\ \hline 79.8 \end{array}$
7+50	.026	73.64 12	73.09 6		72.66 15.97	72.95 26.97	$\begin{array}{r} -25.5 \\ 9.7 \\ \hline 35.2 \\ 15.97 \\ \hline 79.8 \end{array}$ $\begin{array}{r} -25.8 \\ 9.7 \\ \hline 35.5 \\ 26.97 \\ \hline 80.3 \end{array}$
6+18.87	.05 EG 1/2:1 Rt	70.33 12	70.43 6		71.64 18	72.19 29	$\begin{array}{r} -23.5 \\ 10.0 \\ \hline 33.5 \\ 18 \\ \hline 74.1 \end{array}$ $\begin{array}{r} -24.1 \\ 10.0 \\ \hline 34.1 \\ 29 \\ \hline 80.3 \end{array}$

48.13

Super-Stop

Hinge

FP

2

FP

Hinge

22

9 + 3432
 78 + 4968 POS 2 Page 2
 .0145 1/2 1 RT
 FC = OPP

79.63
6

79.44
 7.14
 -19.9
 11.8
 F 31.7
 7.14

79.28
 18.14
 -19.7
 11.8
 F 31.5
 6.54

11.8
 1.5
 70.4

7P 11.86 59.54 0.45 47.68

+ 89.92 = 1' Rank
 .04

80.86
6

80.30
 8
 -32.2
 0.5
 F 32.7
 8

79.86
 19
 -31.7
 0.5
 F 32.2
 67.3

0.5
 1.6
 -1.1
 72.3

8 + 50 0.55 1/2 1 RT

81.94
15

81.67
6

80.90
 8
 -32.8
 3.8
 F 35.8
 8

80.30
 19.0
 -32.2
 3.8
 F 35.2
 71.8

3.0
 1.9
 -0.9
 76.8

48.13

Grader Market St. N. 46th Blvd. Sec. 8 -
 83rd to North to East of 36th St.

Sheet 19 No. 22071

Hug. 31.53
 1751402
 Garber
 Chippman
 Parks

21

	Super Slope			Curb		Curb	Curb	Hinge			
7P For Curb Stakes	6.45	46.66	12.73	40.31							
+50				10.40 10.96 F 0.56 0.76	43.10 42.90 2	45.02 42.82 2	10.48 10.96 F 0.45 0.68	42.16 34 10.78 10.71 C 0.07 3.84	42.36 44	40.1 5.0 F 1.9 5.4	
+25				9.24 9.83 F 0.59 0.79	44.26 44.66	44.18 43.98	9.02 9.83 F 0.57 0.71				
2+0				8.07 8.72 F 0.65 0.85	45.13 45.23 2	45.35 45.15 2	8.15 8.72 F 0.57 0.79	44.54 34 8.40 8.41 F 0.01	44.74 44	-2.3 5.2 F 7.5 5.3	
+75				6.90 7.58 F 0.68 0.88	46.40 46.40	46.52 46.32	6.98 7.58 F 0.66 0.80				
+50				5.74 6.26 F 0.48 0.68	47.76 47.56 2	47.68 47.48 2	5.82 6.26 F 0.44 0.60	46.92 34 6.02 5.75 C 0.57	47.12 44	-4.7 8.1 F 1.8 5.7	
+25				4.57 5.25 F 0.68 0.75	48.90 48.73 2	48.82 48.65	4.45 5.15 F 0.50 0.67				
7P +09 B.C. Curb = 1.8	2.44	42.45	12.97	40.01	40.61 40.42 2	40.57 40.44 2	3.86 4.35 F 0.49 0.62				
1+0				3.82 4.35 F 0.53 0.66		49.46 49.26 2		49.30 34 3.64 3.32 C 0.31	49.50 44	3.5 9.7 F 6.2 5.3	
+50						50.56					
8/16 land BM	0.78	52.20		52.52							
0+48.87								51.74 34	1.24 1.39 curb	51.94 44	1.0 1.3 F 1.3 5.5
BM Curb Stakes	0.42	52.94		52.52							
BM	0.46	52.98		52.52	2.47 0.75 at 15 land at 15 land						

Super Slope

Carb

7

Carb

Carb

Hinge

25

+50

577.
599.
F072. 41.44.
2

535
599.
F064 41.06.
2

4038 40.19.
26322
558
F031
8.01
F007.

1.8
6.0
F42
34

10.89
44
1.6
F44
50.8

+25

562.
636
F071. 41.09.

579
636
F080 41.01.

40.03 3.57
26
3.92
F042

4+0

5.97.
676
F077. 40.74.
2

40.66.
2 6.05.
6.76
F077.

39.99.
34

10.19
44 out.

39.91
5.26
45.26

+9532 = CB EC on RT
H50 FLY BALKY COON.

41.05 = CB out
34

out.

39.92. F12
34
R123

10.13
44
2.3
F14
26.1

+85 = 1/2 R on 2 = 1/4 Island

out 6.17.
695
F078. 40.51.

40.50 6.21.
6.25
F074.

+75

40.85 = C

39.86 par F010
5.34
F011

2+50

40.76 = C
34

37.65 par
5.55
5.99
F021

+25

40.87 = C
34

39.85 par
5.35
5.84
F049

2+10 = 1/2 R = FLY Island

6.17.
725
F108. 40.68
F122 40.54

40.60 6.21.
7.25
40.50 F104
F1.18

TP 1/2 Island 663 46.71 13.22 40.08

3+0 on Lt.

2+9932 = CB EC on RT
41.30 = C
34

12.47
13.25 40.99
F078. 40.85.
F0.94 2

10.91 12.55.
40.95 13.25
2 F0.86
34
6.56

10.10. F27
34
34

10.30
44
2.3
F29
18.4

2+75 = 1/4 CB + 1/4 RT
30 North

53.30 F160
42.15 42.18
46.667 34

11.56 41.74
12.09 41.74.
F0.83 2
0.73

11.85
41.66 11.64.
12.09
F0.75. F0.65

See page 23
For 03340

Market St. Right Lane

	Super Slope		Curb	9/5	Curb	Curb	Hinge	26
+82.39	FC					407. 387. 42.59		
+75		3.51. 1.46 Fo.92.	43.17. 4	42.10 0.0	3.61. 4.46 Fo.85.	out	42.47.	42.67 10
								42.12 26 4.87 4.93 Fo.76
+50		3.87. 1.78 Fo.91.	42.84. 1	42.76 0.0	3.95. 4.78 Fo.83.	out	42.13. 4.53	42.33
								6.4 4.7 Fo.83 6.0
								6.5 11.2 Fo.85 183
+49.76	✓							41.98 5.15 Fo.85
								41.78 5.15 Fo.85
+40.42	= B.C. RT of Right Lane	4.01. 2.87 Fo.86.	42.70. 2	42.62 2	4.09. 4.87 Fo.78.	out	41.99 4.69	42.19
								6.7
								41.64 26 5.30 5.32 Fo.88
+25.8	✓	4.22 1.98 Fo.76.	42.49.	42.41	4.00 3.98 Fo.88.		41.77	41.77
+23.04	✓							4.89 Fo.85.
								41.43 26 5.51 5.82 Fo.87
570		4.57. 5.26 Fo.89.	42.14. 2	42.06. 2	4.65. 5.26 Fo.81.		41.40. 3.66 5.26 1.97 Fo.82.	41.50
								7.0 12.9 Fo.89 189
								41.08 26 5.81 Fo.85
+75		4.91. 5.58 Fo.81.	41.79. 2	41.71. 2	5.00. 5.58 Fo.86.			40.73 26 6.51 5.85 Fo.84
JP	11.60	48.56	5.49	36.96				
41.831	CBBC.07 RT.							
								41.15 44
								1.03 5.22 Fo.89 999
								10.95 34 5.71 5.82 Fo.89
								1.15 5.2 Fo.87 34
								42.45

26.7/17.6
48.66
42.45

B.C. RT's Curb Line

Super Slope

BM

434

47.76

Ch. J. A.
S.F. Cor. Old
Bridge
47.74
Forebank

2

F.P.

Hinge

27

BM

399.2

SEA
Marked
700 + 33rd
169.4x

+52.9 = N.Y. Bridge

46.8
90'

16.82 cb
(17.50)

5.23
2.60
2.63 and cb.

+50

46.46 out

+35 = S.Y. 480

out

45.01
1.55
1.57
60.72

J.P. 2/1 slope

608

52.10

0.69

46.02

0.72
2.54
F0.82

15.99 cb

0.67

15.99 Top cb

+25

15.0
26
19.3
2.05
F0.12

BM

0.83

47.74

Ch. J. A.
S.F. Cor. Bridge
Marked
47.74
Page 80

100.00

740

45.12 cb

1.51
2.56
F1.05

44.57 cb
40
2.09
2.15
F0.66

4.0
1.68
F78
40

44.77
50

3.8
1.8
F80
80

44.22
2.72
2.87
F0.16

+75

44.59 cb

2.13
3.22
F1.10

2.25
3.44
F0.9

43.61
26
3.31
2.44
F0.13

+54.50 F.C.
+50.44 POT 50 cb

out

Left hand

44.21 cb

2.40
3.40
F1.10

2.73
3.76
F1.03

43.58 cb
40
3.08
2.27
60.16

5.0
1.08
F88
0.0

43.78
50

4.8
1.08
F60
190
3.71
3.84
F0.17

+25

2.90
3.81
F0.91

43.81

43.80 cb

2.91
3.81
F0.90

43.17 cb

43.87

42.82
26
3.12
3.28
F0.16

640
5+9804 50 cb

3.22
1.57
F0.85

43.19
4

43.45 cb

3.26
1.07
F0.81

42.82 cb
10
3.84
3.76
60.14

5.7
1.15
F5.8
0.0

43.02

5.5
1.15
F6.0
19.0
36
4.47
4.62
F0.15

4671 1/2 Island

SAUCE COUNTRY CORP

Super Slope

7 Sides
Paper
Chippin
Porter
Kellin

9+0

541
541
F1.86
2

53.28-cb

52.78-Gut

52.20 52.16
24 29.22-Gut

52.83
29.22-cb

6.08
6.52
Fo.51

+89.92 = 1' R on Rt

+75

6.46
7.21
Fo.55
2

52.23-cb

51.72-Gut

51.69
32
7.20
24 8.65
52.31-cb
32 1'R
6.55
6.90
Fo.35

52.28
70 S.W.C. SW 1/4
6.63
6.70
Fo.27
6.25
6.29
F.94

+50

7.51
7.65
Fo.11
2

51.18-cb

50.68-Gut

50.20
24
8.25
7.70
9.7V

+25

19.14
24
10.25
10.76

Sept. 27. 54
For So Curb
BM 47.74
47.17
58.91

+22 = Fly Bridge

(50.37) 8.69
Fo.11
8.32
50.00-cb
0.70

49.50-Gut
c/c

Sub. Grade
Rt. Lane
DSE Cor
Market
Bridge

BM

10.95

58.69

47.74

DSE Cor
Market
Cholla Br.

BM 47.74
47.17
58.69
58.47
13.34
72.81

8+18.92 = Opp.
2+60.13 B.C. SWOC.

	Super Slope				Base	Gutter	Curb	
TP	960	67.56	0.73	57.96				So. Curb 58.9/8
+50				^{-0.63} Fo.91	58.87-gut	57.85 26-gut	58.32 26	^{0.39} Fo.75 Subst 70.80
10+25				^{0.14} ^{1.35} Fo.71	58.05-gut	57.55 26-gut	57.70 26-cb	^{1.21} Fo.63
10+0				^{1.52} ^{2.36} Fo.87	57.17-cb	56.67-gut	56.15 26	2.09 2.73 Fo.64
+75				^{2.43} ^{3.39} Fo.96	56.26-cb	55.76-gut	55.24 26-gut	2.00 2.10 Fo.60
+50				^{3.38} ^{4.28} Fo.90	55.31-cb	54.81-gut	54.29 26-gut	3.95 4.12 Fo.77
9+41.09	B.C.H.			^{3.73} out	54.96-cb	54.46-gut	53.94 26	54.61 out 26
9+25		5869		^{4.57} ^{5.38} Fo.91	54.32-cb	53.82-gut	53.29 26-gut	4.95 5.40 Fo.75

12+7266

Super Slope

308

6315-cb

on slope stub

Z

H199

TP

105.29

12+50

+50

1:1

2.80
4.29
F1.46
1.44

6476-cb

6344-476-cb
F1.33
6476-cb

7.32
7.75
6381
24

6421-cb
39
24.64
10.43

44.2
31
21.7
39.1

64.85
65.0

135
31
10.4
10.4
110.4

+25

3.57
5.29
F1.92

6404

6404-cb
6256
F1.86
6354-cb

7.75
8.50
6306
24

6339-cb
24 RT
62.50
60.11

12+0

1:1

4.27
5.25
F0.98
4.25
5.19
F0.93

6331-cb

6331-cb
6281-cb

8.18
7.54
6252
24

6259-cb
39.10
62.46
F0.13

45.8
10.7
33.51
39.1

62.50
65.10

45.9
10.7
10.7
10.7
100.3
100.3

+75

TP

1315

108.37

0.34

95.22

6259-cb

4.97
5.64
F0.88

6259-cb
6209-cb

9.32
9.32
6161
24

6151-cb
39.92 RT
61.39
F0.42

59.66-cb
507
511.2

95.56 St. Ford
Page 28

+5233 P.C. = Opp.
5+7064 F.C. SW 1/4

1:1

5.63
6.89
F0.77

6193-cb

6193-cb
6143-cb

9.86
7.51
60.95
24

6140-cb
60.36
F0.58

SW 1/4 Sect

+25

6.43
7.70
F1.27

6112

6113-cb
6063-cb

10.16
17.1
6015
24

7.30
8.15
F0.85

7.34
8.15
F0.81

60.28
60.24

60.28
60.24
58.91
0.61
58.35
9.23
67.58
17.23

+0764 = 1' R on R

11+01.89

PRC 1:1

Correct
7.10
8.12
F1.06
7.11
8.12
F0.96

60.46-cb

60.46-cb
59.96-cb

59.61
26
59.44
26

60.28
27 = 1' R on R

60.11-cb
26
7.47 out

To SW 1/4

BM 65.83
X H 11 R 12175

59.66-cb
7.92
8.23
F1.03

10+75

7.90
8.26
F1.06

59.66-cb

59.15-cb

58.64
26 out

59.31
26

-0.10
0.56
F0.96

67.56

Sub Grant
So. 50 ft.
70.81 ft
8.76
70.05

	Super Slope		Hinge	Curb	Curb	Curb	Curb	Hinge
	TP 100.46 Page 32 09.33 101.39 11.67		231 7.8 7.8 70.8	248 7.8 7.8 70.8	042 7.8 7.8 70.8	10.05 7.8 7.8 70.8		
+50	89.72 4.26 92.38	1.1	7.5 7.5 104 749	319 7.5 72.5 55.5 89.7	70.76 13.0 70.6 F0.10	72.19 4 72.61 28	73.80=cb 13.26 6.046	73.50 72.0
14+25	8M 75.67 11.27 86.33 8.57 95.59			62.51=cb 69.48 62.51=disht 2.22 267.26	70.94 70.19 F0.95	11.40 12.75 71.26 28	72.44=cb 0.00 288 Backchecked	
14+0	95.59	1.1	0.3 0.7 104 102.7	40.1 0.2 132.9 98.4	70.5 70.5 55.5	68.31 43.0 69.33 F0.41	69.78 1.53 289.94 28	71.95 55.5
13+75				67.15=cb 67.15 67.15 67.15	67.15 67.15 67.15 67.15	68.72 68.72 68.72 68.72	69.61=cb 70.16 60.55	
+50	star 102.7	1.1	1.9 0.9 1.0 102.7	45.7 1.9 1.9 98.7	68.5 68.5 68.5 55.5	67.76 4.0 65.72 F1.83	71.67 67.46 18.25 43 43	69.70 55.5
8M			11.99	113.61	101.63	124.79 Page 41		
+29.43	PRC 46 off sold			65.15	67.04=cb			
+26.39	PRC 86 off sold			65.20	67.02 66.54=cb	66.54 34	67.91 43 18.27 21.16	
8M	63.83 5.32 71.15			65.82=sh 60.62 60.67	66.02 F0.38			
13+40		1.1		64.12=cb 50	66.22	65.50 24	66.04 39	67.4 51
13+75	54.06 0.27				65.19=cb 64.99 6.0	65.06=cb 39 24		

23.5
6.6
61.89
74.4
27.8
8.8
61.90
74.5

87.25 RP
127.77 RP
8M 70.82 ft
4.28
106.40
12.57
94.03
3.26
97.77

Super Slope	Hinge	Curb	Curb	Curb	Curb	Hinge
16+25 ✓	6.95 7.25 7.70 81.99 28	80.60 80.73 TP C013	81.99 8333 64.58 2.65 80.49 81.46 F1.02	8333	84.29 82.21 F 2.08	8.7 Ford Page 81 113.61 13.15 TP 100.46 9.86 110.32 + 0.60 110.92 52.70 5+62.98 Page 81 1.10.95
+12.49 = opp 1:1 5+69.38 FC NEIL	NEIL					
BMS 4.28 Page 44 4.86 88.94						
16+0 ✓	1:1 80.05 54.34	80.21 28	70.85 74.21-cb 72.71 F008 78.32-cb 72.02 F030	80.21 28 81.62 4 80.76 F0.86	81.62 81.99 82.77 52.89-cb 81.67-cb 82.29 F1.38	SELL Sub Grade So. Side 82.66 0.38 82.28 2.00 84.28 1.99 B.M. 84.27 So. Side Page 81 (84.28)
15+82.15						
+75 ✓		74.47 28	78.47 77.03-cb 77.06 10.17	79.92 77.41 F0.51	79.92 80.36 28	
15+63.96						
+50 F.V.C.	1:1 81.3	76.94 53	76.74 76.27 C003	78.77 77.54 78.5	78.22 78.68 28	SELL
15+25	Subgrade #2 71.157 0.20 70.95 72.95 83.78 83.07 83.43		75.13 43 75.61 C0.48	75.10 28 88.80 9.55	76.56 77.02 28	
15+21.58 = opp 0+0 S.F.L.	1:1 1.188 50 1.22 84.38			76.49 76.21 F0.28	76.49 76.80 28	SELL
15+00			73.58-cb 31.6 74.08 C0.50	73.55 28 F0.17	76.01 75.47 28	
14+98.47	1:1 7.3 6.5 7.3 87.6	74.30 53.9	73.49 43-cb	74.92 7.0	74.92 75.38 28	76.54 70.0
14+75		11.81 7.5 12.56 28	72.12 43 73.50-TP C1.38	73.55 73.63 C0.08	73.55 74.01 8.55 7.5 7.0	75.12-cb 74.71 F0.41

Station	Notes	Hinge	Curb	Curb	d	Curb	Curb	Hinge	Notes
18+20	Super Slope #2 130.62X		96.61-cb 96.23 C 932	96.96 95.84 F 1.02	Δ	96.96	96.61-cb 96.30 F 9.31		So. Side Nov 5-53 18+45 to 19+45
18+0	1:1	255 275 275 19.2 95.1 40	94.91-cb 30 25.21-TP C 0.30	95.26 4 24.09 F 1.17		95.26 4	94.91 30 24.61-TP F 5.30	95.11 40	
+75	Day Light to Sta 4	87.5 75 29.9 89.9	93.40 40	93.70 30 23.47 C 0.27	TP = 92.88 F 0.33	93.55	93.24-cb 92.30 F 8.85	92.88	24.9 48 19.4 59.1 F 10.45
+63	9.1 Slope 4.133N.F.L.	58.0 58.1 28.9 88.9	92.59 40						
+50	1:1		91.70 40	91.50 30 21.68 C 0.18		91.85 4	91.66 30 20.09 F 1.57	91.86 40	25.3 49 20.5 30 60.3
17+25	144.13X			89.77-cb 89.84 C 0.07		90.14 89.09 F 1.05			
17+0	1:1		88.21 40	88.01-cb 30 87.76-TP F 0.25		88.44 4	88.66 30-cb 87.78-stake F 0.88	88.86 40	28.4 58 23.6 30 28.2 58 22.4 62.4
+75				86.23-cb 85.92 F 0.31		86.74 85.61 F 1.13			
+54.52	1:1 = 1.1 Slope SE	NEIL	84.63 NEIL 84.73 30-cb 84.47 F 0.26	84.88 4 85.34-cb TP → 84.62 F 1.21		84.88 4 85.34-cb	86.04 30-cb 84.43 F 1.41	86.24 40	31.0 9.2 21.8 30 31.6 9.2 21.6 61.8
+45	= 9.1 Slope SE						85.47 30-cb 31.6 10.9 20.7 30	85.68 40	31.4 10.9 20.5 60.5
16+0874	EC 1:1		59.7 57.5 6.72 82.97 28.44	84.74 4 85.34 F 1.23		84.74 4	85.05-cb 30	85.25 40	32.0 31.8
So. Side BM		2.51	117.08	113.57	1 st P.O.P. SE of NEIL Cot. M. East of Road	2387-64			

	Super Slope	Hinge	Curb	Curb	z	Curb	Curb	Hinge
20+48				110.74 109.97 F 0.77		110.70-cb 109.97-stake F 0.73		TP 116.21 JHBM 122.16 Pipe 122.17 P 76 0.01
+3923 = OPP 12+0/82 J.F.O.C.								
20+35		N.F.O.C.	109.52 ^{cb} = 20+35 109.31 F 0.21					11321.7
+25			109.06 TP= 108.27 F 0.09	109.59 108.78 F 0.81		109.55 108.75 F 0.80	4.14 2.5 5.39	108.57 28
20+0	1:1		108.02 41.42	107.82-cb 31.42 107.92 C 0.10	108.21 38.4 107.22 F 0.98	108.22 4	5.97 2.5 6.72	107.24 28
+75				106.46 106.34 F 0.12	106.81 105.75 F 1.06	106.81	7.38 2.5	8.12/105.83 28
19+60				105.57-cb 105.59 C 0.02				
+50	1:1		105.16 40	104.96 30 104.60 F 0.36	105.31 4 104.43 F 0.88	105.31 4	8.88 2.5 9.63	104.33 28 = EP
#2 19+25 130.62T				103.39 103.52 TP C 0.13	103.74 102.84 F 0.90	103.74		103.39 = 19+25 102.75 = TP F 0.64
19+0 PVC	1:1	out 28.7 26.5 86.5	101.92 40	101.72 30 103.05 C 0.33	102.07 4 100.63 F 1.44	102.07 4		101.72 30 = Cb. 101.35 F 0.17
+96 = Slope 2+14 18+75		N.F.O.C. 29.8 26.5 86.5	101.65					
18+75				100.02-cb 100.39 C 0.37	100.37 99.16 F 1.21	100.37		100.02 = Cb. 100.09 C 0.07
18+50	1:1	32.1 27.5 87.6	98.51 40	98.31-cb 30 28.81 C 0.50	98.11 4 27.31 F 1.35	98.11 4		98.31 30 = Cb. 27.98 F 0.33
		144.13						

Super Slope

EP

Hinge

EP North Side

Pipe 99' Pt

22+0

02 R 1/2" I

BM 122.19
1.00
129.26
7.99
115.54
15.36
4.59
1.90
119.59
115.36
119.95

4.17
1.56
4.94
116.02
4

3.92
4.88
116.02
11.00
115.99
11.43

7.13
7.38
115.55
22.86
31.43 EP

7.53
11.24
115.23
12.43
3.14

11.9
4.4
6.59
7.59

+7.5

TP

22+18.94
114.80
119.95
114.80
115.04
16

4.91
4.45
115.23
7.64
7.25
115.23
8.39

7.85
7.75
115.07
12.57

8.10
8.25
114.82
2.14
3.357

8.39

+5.0

02 R 1/2" I

5.98
2.25
112.97
28
114.21
16

5.50
6.25
114.45
4
8.47
9.22
114.45
2

8.71
7.75
114.21
13.71

8.75
9.78
113.97
25.43

9.66
13.8
113.76
3.57
3.57
4.771

13.1
4.5
6.86
5.20

+2.5

6.90
7.25
112.05
28
6.65
7.1
113.29
16

6.42
7.1
113.55
4
9.39
10.7
113.55
2.87

9.63
10.3
113.29
14.71

9.87
9.75
113.05
26.55

10.09
112.83
3.958

21+0

02 R 1/2" I

7.92
8.65
112.05
28
7.66
8.21
112.29
16

7.42
8.1
112.53
4
10.39
11.1
112.53
3.50

10.63
11.38
112.29
15.43

10.87
11.62
112.05
27.36

10.09
14.8
111.82
38.9
38.9
50.93

14.9
5.7
6.92
5.53

SC 21.51

EP 516

BM 115.36

7.56

12.92

8 M

4.40

126.57

122.17

Pipe 99' Pt

22+18.94

+7.5

110.98

2.8

116.41

4

111.46

3.8

110.98

2.76

2.23

7.5

2.98

76.574 - CBC 07 Pt

20+50

109.82

28 Par

110.30

4 Par

110.30

4 Par

110.06

16

109.82

28 Par

3.39

7.5

5 F.O.C

Super	Slope	Hinge	EP	g	EP	Hinge	36		
TP									
24 + 0	.02		118.27 42.5	118.49 32.56, F02 32.5	118.76 18.5	118.87 8.50	118.81 14.29	118.53 25.29	
			4.51	4.43	5.25	4.17	4.33	4.50	
+7.5			118.27 33.75	118.46 29.25	118.67 18.5	118.89 7.75	118.57 16.73		
			4.71	4.52	4.15	4.31	4.49	4.68	
+5.0	.02		117.95 46.0	118.17 35, F26 35	118.29 29	118.51 18	118.61 7.5	118.61 9.28	118.24 18.57, F02 78.6
			2.06	1.95	1.45	1.53	4.24	4.95	
+2.5			117.89 31.25	118.04 28.75	118.21 17.50	118.39 6.25	118.18 10.35	117.97 20.71	
			2.43	2.25	1.77	1.84	5.17	5.29	
28 + 0	.02		117.30 48.5	117.53 37.5, F10.8 37.5	117.70 28.50	117.86 5.50	118.08 0.0	117.85 11.43	117.63 22.86, F02 22.9
			2.88	2.67	2.21	2.23	5.18	5.73	
+7.5		End Ditch 0.0 ft	117.07 38.86	117.28 28.28	117.57 18.56	117.75 4.84	117.69 12.50	117.19 2.50	
TP			120.77	120.36					
			6.21	6.17	2.92	2.69	5.23	5.92	
+5.0	.02	R/L 1/2"	116.34 50.37	116.51 39.37, F0.2 39.7	116.78 28.2	117.06 16.25	117.36 4.38	117.22 13.57	116.67 27.14, C4.2 27.1
			10.9	3.39	10.0	3.92	5.25	6.25	
+2.5			115.96 39.84	116.20 28.03	116.41 16.06	116.68 4.09	116.68 0.0	116.27 14.64	116.08 29.29
			3.99	3.75	3.51	3.51	6.55	6.84	
			1.51	1.51	1.31				

1/2" 11
22 + 18.91 Pot. = Opp
0 to RS. NEQC.

Super Slope

Hinge

FB

L

FR

Hinge

Edge Pav

122.88X

126.43X

FRS

127.92X

0.75 P.P.C.

821 122.17 99.91

127.18X

(122.17)

25+0 02

117.82
41.0

4.81
4.85 HC 8.34
118.04 8.30
30.00 0.07
0.74

4.64
4.52
118.21
30.20

4.44
4.38 HC 4.58
4.77 0.74 C.
118.44 118.24
10.00

4.88
118.04
10.00

8.39
8.38 0.74 C.

117.82
21.0

8.6

+75

4.58

118.20
30.12

4.55
4.51
118.50
19.94

4.48
4.43
4.42
118.70 118.50 5.17
9.91 0.00

118.20
10.53

4.62

24+50 02

8.2
8.2
8.0
4.30

118.23
41.83

4.43
8.0
118.45 8.2
30.63 3.26

4.42
4.37
118.66
19.74

4.45
4.40
4.34
118.87 118.68 4.92
9.62 0.00

118.46
11.07

4.46 8.0
8.2
F.O.2
11.1

118.24
22.07

8.2
8.2
8.0
3.21

+25

120.77

4.35

118.53
31.4

4.35
4.30
118.76
19.45

4.35
4.30
4.25
118.97 118.79 4.13
9.16 0.00 4.88

118.54
12.68

4.38

Super Slope Def.

S. N. Oblique of Island

7+0

1° 59.93 ✓

227.
225.
0.02.

44.44 = Cl
0.0

A Same

+75

1° 17.13 ✓

245.
241.
F 0.66.

44.26 = Cl
0.0

+50

0° 34.33 ✓

263.
352
F 0.99.

44.08 = Cl
0.0

+2995 P.R.C

0° 00'
2° 33.48

281.
378
F 0.91.

43.87 = Cl
0.0

A 5° 06' 58"

6+0

1° 42.00

1/2 2° 35' 29"
R 1004
T 44.85
L 89.65
D. 1.7/2

+75

0° 59.20

+50

0° 16.40

Right Lane
Page 20

5+40.42 B.C.P.

Left Lane Market St

L. H. C. L. Inc
2/15/1944

39

+

+

810

+50

7+19.46 FC

1° 33.48'

1671

44.68

203.
1.92
6.011 07 EX. H. C. L.
H/S. S. Sub

Market St. Lift Lane

Sheet 15

June 10-53
H.S. 500
Garber
Chapman

Berk
Holt 40

Super Slope

Hinge

walk

Curb

Base

+50	46 52 76	27.2 4.6 71.6	59.46 48.95	27.4 4.6 38.95	59.26 38.95
-----	----------------	---------------------	----------------	----------------------	----------------

+43.34 1802RT

+25			58.47 48.64		58.27 38.84
-----	--	--	----------------	--	----------------

11+0	1:1	11.2 13.3 7.1	29.3 11.2 66.7	57.32 48.04	29.5 11.2 38	57.12 38.04
------	-----	---------------------	----------------------	----------------	--------------------	----------------

+75			56.01 47.16		55.81 37.16
-----	--	--	----------------	--	----------------

+50	1:1	47 8.7 52.4	6.1 8.7 47.4	54.60 46	6.3 4.7 36	54.40 36.0
-----	-----	-------------------	--------------------	-------------	------------------	---------------

+25			53.20 44.54		53.00 34.54
-----	--	--	----------------	--	----------------

10+0	1:1	79 9.7 49.0	8.9 7.9 44.0	57.81 43	9.1 7.9 33	57.61 33
------	-----	-------------------	--------------------	-------------	------------------	-------------

+75			50.45 42.2		50.25 32.20
-----	--	--	---------------	--	----------------

79+54.62	30RT		42		32
----------	------	--	----	--	----

25200
Market Chollar
Bridge
RM 47.74
12.95
60.61
60.81
60.88
13.25
73.75
73.01
75.73
12.90
88.66

Align Grader
Change
9331

49.69-cl
0.89

48.91-cl
2.92

Market St. Left. Lows

	Super Slope	Hinge	Halt	Curb	Base	
+29.43	= 1st 26.39 PRC Rt Lows	67.75 57.50	67.63	65.20 39	65.90 PRC	
1340	1:1 6.4 4.1 +2.3 96.7	16.3 6.4 c 39.9 97.4	65.48 57.53	10.8 c 11.2 39 14.12 39	64.50 PRC	86.66 0.01 86.65 13.18 99.83 0.96 98.87 13.08 111.95 1.523 101.62
+75		63.89 49.10	63.74	63.29 39	63.32 PRC	B.M. 101.62
+64.79	BC Lt	63.16 49	63.01	62.96 39	62.87 PRC	
+50	1:1 6.4 4.1 +2.0 85.8	27.6 6.3 c 37.8 80.8	62.69 49	27.3 6.3 c 37.0 39	62.12 PRC	
+25		61.90 49		61.70 39	60.95 PRC	
1240	1:1 11.4 6.0 +1.4 81.3	38.7 11.4 c 27.3 75.3	61.10 49	38.9 11.4 c 27.5 39	60.90 39	59.76 PRC
+75		60.31 49		60.11 39	58.58 PRC	
11+64.79	FC 1:1 12 6.2 +0.2 79.5	26.7 12 c 25.5 74.5	59.97 49	26.9 12 c 25.7 39	59.77 39	58.09 PRC

Grades South East Inner Loop
H.M. Market St.

Left.

Sheet 16

Right

42

	Super Slope	Hinge	F.P.	Left	Right	Hinge	F.P.	Right	
2+0	118 1:1	4.0	87.96 F	87.72	7.05	85.95	85.01	87.96 F	BM 12893 112.20
+75	111	9.9	87.25	87.03	8.34	85.36	84.48	87.25	117.78 117.93
TP	1032	128.00	0.45	117.48				128.00	Sept. 29-54 E.M. P. J. J. S. P. in lat.
150	1013 1:1	5.4	86.37	86.12	9.10	84.60	83.80	86.37	BM 84128 9.4201 9.27
+75	087		85.15	84.98		83.67	82.97	85.15	
1719 - End cb RT									
1104		8468-1204	84.44-cb 1+10						
1+0-20+7.78	0707 1:1	84.28	82.63	82.63	82.57	82.24	79.60	82.63	5.1 5.6 10.4 81.1 BM 8478 "SW" inlet
chd. 2496	BM	Finish SE 2nd	80.78					80.78	
15+20.81		10.81	82.84					10.81	
+75	0574	91.63	82.04	82.04	81.15	81.82	79.60	91.63	
0+58.82 - opp 1' R		87.38	81.67					87.38	
+50	0335 1:1	13.10	80.26	80.26	79.69	80.36	79.20	13.10	6.0 5.8 +0.2 80.9
+22.26	0112	87.22	78.28	78.28	78.09	78.76	79.0	87.22	
0+00 = opp 1:1 RT		88.31						88.31	
TP	245	12314	9.04	120.59				12314	
BM	080	129.75		128.93				129.75	

← 80% slope

q. R. 146
21-12-77

00375

15+21.53 Market St

Pipe 5958
8+37.20 SE 00

76.86
10.05

4.51
6.5
6.4
7.0
8.1

	Super	Slope	Top Mound	Hinge	Left	EP
TP		0.73	116.34	1/2 12.37	115.61	
+275		0.12	93.21	28.5 12.5 14.5	87.61	
+85				12.6 12.4	87.64	
4+0		1:1 FT	93.38	1/2 12.4	87.78	
+75	Finish		93.51	1/2 12.3	87.9	
+50		1:1 FT	93.65	1/2 12.1	88.05	
+25	Mound for HS wall		93.78	1/2 12.0	88.18	
3+0		1:1 FT		F 2.93	88.32	
+75		0.12		88.69	88.45	
+50		0.12	1:1 FT	F 2.82	88.43	
+25		0.12		5.52	88.18	

	EP	Hinge	Right
	30.5	31.5	116.34
	85.81	84.85	87.61
	7.86	21	87.64
	7.72	85.98	87.78
	7.59	86.11	87.9
	7.45	86.25	88.05
	7.32	86.38	88.18
	7.18	86.52	88.32
	7.05	86.65	88.45
	7.07	86.63	88.43
	7.33	86.38	88.18

128.00

		Left			Right			44	
	Super Slope	Hinge	EP	EP	Hinge			Bottom Dist	
Finish	99.117	80.78 12.52 93.30							
+50	.0627	Edge Pav 129 93.70 6.19 87.51 5.14 92.50 7.50 TP 85.53	85.55 1.28 92.83	434 88.49 6	528 87.55 9	577	87.05 1.27 17	30.8 10.67 82.5 31.0	
+25	.0767	TP 85.53	88.25	473 88.10 6	588 86.95 9		86.34 17	82.80 28.3	
+40	.09	20.6 21.8 -1.3 3.20	25.5 20.5 c 5.0 77.0	25.6 20.5 c 5.1 12	544 87.79 6	639 86.44 9	688 70.27 F 3.49 9	277 3.0 85.72 17	
+75	.102	10.0 21.6 -1.7 28.8	26.7 19.9 c 5.8 17.8	25.9 19.9 c 6.0 12	521 87.56 6	680 86.05 9	85.21 17	1037 1037 0.0 25.5	
+50	.112	1.18	18.2 19.5 -1.3 34.6	24.8 18.2 c 7.6 19.6	26.0 18.2 c 7.8 12	711 85.72 9	11.39 12.76 F 0.37 9	28.6 0.1 84.82 17	
+25	.118	128 178 -1.5 28.1	25.9 17.8 c 8.1 20.1	26.1 17.8 c 8.3 12	533 87.22 6	710 85.55 9	84.61 17	12.39 11.76 c 0.53 21.5	
+50	.12	1.18	18.8 19.8 -1.0 28.9	25.9 17.6 c 8.9 20.9	26.1 19.0 c 7.1 12	714 85.51 9	11.60 12.56 F 0.96 9	28.5 0.1 84.55 17	
+75	.12	14.5 17.8 -1.7 28.3	25.9 17.6 c 8.3 23.3	26.5 17.6 c 8.9 12	529 87.38 6	707 85.58 9	84.62 21	29.9 21.5 51.6 12.39 1.76 c 2.10 23.6	
TP	9.27	113.43	12.18	10.11					
4 + 50	SWY 0.12	1.18	Top Mound 25.7 93.11 9.36 c 3.6 75.6 116.34	25.7 19.6 c 6.1 12.6 116.42 141	25.9 19.6 c 6.3 12.6 116.42 141	799 85.71 9	30.6 1.8 c 28.8 9 11.40 12.00 F 0.96 9	31.6 1.8 c 29.8 21 12.39 12.00 0.0 21	

South East Inner Loop

Ht. Market St.

Super Slope

Lt.

Hinge

FP

Right

g

FP

Hinge

45

to Main Ditch

Edge Par

92.83

2.18

90.65

BM

ATM Cor
N. Long St
Market part
ex. 90.65

Cont Page 3

.037
6+94.94 = opp
82+67.57 POC. ylabarb
page 3

3.67
4.45
4.45 89.16

4.29
88.60.
8

88.28
16

Ditch 14 feet

82.40
33

6+74.30 .048

3.96
4.25
4.25 88.89
6

4.66
88.17.
9

87.79
17

82.50
32

Grades South of West Inner Loop

Lt.

May 14 - 53 Chipmox
H.S. 5007
Garber
Kellie

Sheet 15

46

Super-Slope	Hinge	FP	±	FP	Hinge	Sept. 1. 54 Edge for		
2+0	112 1 1/2' Rt.	-19.1 S.M.C. 80.25 11	-185	8.59 79.69 6	1039 -167 77.89 10 F 189 10	-155 22 76.66 21 F 177 11.6	2.2 BM 8078 1.2 70.7 52.6	
TP	0.72 61.18	12.90	60.46					
+75	1044	-8.5 11.1 F 19.6 40.4	81.85 11	-8.0 11.1 F 19.1 6	81.38 6	690 8.57 79.71 10	78.56 21	
+50	093 12:1 Rt.	-10.0 12.6 F 22.6 77.9	83.30 11	-9.5 12.6 F 22.1 6	82.83 6	345 694 81.34 10 F 21.9 10	-7.0 13.9 70.9 52.1	13.9 12.0 71.9 57.4
+25	08	-11.6 10.6 F 21.7 43.6	84.43 11	-10.7 10.6 F 21.3 6	84.03 6	435 555 82.75 10	81.87 21	
1+0	0656 1 1/2' Rt.	-12.0 8.7 F 20.7 42.1	85.30 11	-11.6 8.7 F 20.3 6	84.97 6	331 434 83.92 10 F 18.0 10	-9.8 7.4 7.4 F 17.2 46.8	7.4 6.8 +0.6 51.8
+75	05		85.93 11	2.60 85.68 6		3.41 84.87 10	84.32 21	
TP	0.33 73.36	12.99	73.03	0.7 Slope 0.750 amp				
+50	0344 1 1/2' Rt.		86.16 6	2.13 86.16 6		2.67 +0.1 13.0 85.61 10 F 12.6 10	+0.8 13.0 F 13.2 39.3	13.0 12.5 +0.5 44.3
+27.70	0212		86.46 6	1.83 86.46 6		2.16 86.12 10	85.89 21	
0+00 = Opp	0069 1 1/2' on Rt.		86.77 6			1.61 86.67 83.6 F 6.0 8.36	-0.6 5.3 F 5.9 28.3	5.3 5.3 0.0 23.3
TP	1.88	86.02	13.25	84.74				
BM	556	97.99	92.43					

TP 2
S.F.O.C
Page 13

Super	Slope	Hinge	F.P.	$\frac{d}{s}$	FP	Hinge	Edge Bar
+25	.116	60.58 1215	590 60.00. 8	776	58.14. 10	56.86 21	88.20 12.40 7.588 1.25 77.13 13.15 64.90
+10	.12 $\frac{1}{2}$ l.P.	62.10 11	140 61.50. 6	632	59.58. 10	58.76 21	-2.0 6.7 6.7 8.7 3.0 39.1 65.9 07
+75	.12	64.14 11	236 63.54. 6	428	61.62. 10	60.30 21	
+50	.12	66.54 11	119 65.94. 6	1311	64.02. 10	62.70 21	-7.8 10.8 18.6 10. -6.5 10.2 17.3 97.0 10.8 6.2 4.6 53.0
+25	.12	68.96 11	877 68.36. 6	10.69	66.44. 10	65.12 21	
TP	5.59	56.24	10.53	50.65			
+10	.12	71.37 11	656 70.77. 6	828	68.85. 10	67.53 21	-6.4 10.5 16.9 46.4 10.5 9.7 7.1 51.4
+75	.12	73.78 11	395 73.18. 6	587	71.26. 10	69.94 21	
+50	.12 $\frac{1}{2}$ l.P.	76.17 11	1256 75.57. 6	348	73.65. 10	72.33 21	-11.2 7.4 18.6 48.9 7.0 13.1 53.9
+25	.118	78.35 11	1053 77.76. 6	1240	75.88. 10	74.58 21	

Super Slope

Hinge

EP

⊕

EP

Hinge

B-T Ford 2258

Edge Pav
65.90 T
9.60
B-T 56.30
R.P. L.T. 1st
Dip 10
56.34

71.97 T
67.50
71.24
13.27 T
84.37 T
7.22
83.14
12.12
70

56.24 T
8.50
B-M 47.70
Market
47.74

0896
+70.64 FC = Opp
11+52.33 POT, Market

60.95
6

60.34
9.40

341
82
C.A. 67
60.91
11.90
60.36
F. 5.8 P. 30
57.70

60.70
37.4

349
82
C. 26.7
641
8.3
70.3
89.1

+55.16 0462

60.47
6

59.73
10

60.32
12
52.85
F. 0.47
57.30
D. 1.3
38

60.30
38 Hinge

+29.29 0625 1.1

60.64
9.18
57.51
8

58.51
10

59.07
12
58.85
F. 0.22
20.8
12
58.18
C. 0.30

58.90
38 Hinge
59.2
25.7
1.5
C. 26.2
10.7
64.2

+07 End C 6000

59.16
8
58.85
8

8.40
57.41
10

14.6
C. 1.5
10
53.70
8.0
38

56.70
38 Hinge
50.2
15.3
5.1
C. 12.2
10.8
33.2

540 0806 1.1

59.34
14
72.0
58.70
8

8.83
57.07
10

B.M. 6583
Hd. walk 612.70
Market

+75 0956

59.36
14
7.30
58.60
8

out

A+65 = A.H. 10

59.58
14
58.78
8

out 57.17
10

56.07
21 at 0.0
out

A+50 1075

58.24
59.82
13.3
686 59.04
6

8.58
57.32
10
14.7
5.0
C. 5.0
10

54.5
17.5
9.4
7.2
12.0 Hinge
0.81
70.9
71.97

Grades North East Inner Loop
At Market St.

	Super	Slope	Hinge	LT.	RT.	Sheet A	May 7, 53 F. Sisson Garber	Chipman Kelley		
				F.P.	7	F.P.	Hinge	49		
2+0	12	1:1 Lt 1:1.02 Rt	41.3 out 85.90	41.6 out 85.66 6	161	3.13 83.74 10	43.5 27 41.1 10	44.4 24 42.0 64.0	2.4 2.8 0.4 89.0	
+75				239 84.78		82.86	101			
+62	12	42.6 5.6 C37.0 48.0 = P. Slopes 51.750	84.89	43.9 5.6 C37.3 6		82 10		81 22	out	
+50	111.3	1:1 R 1:1.1 R	43.4 8.6 C36.6 47.6	84.16	223	5.11 82.06 10	45.2 5.0 C40.2 10	81.18 22	46.0 5.0 C41.0 68.0	5.0 3.9 1.1 78.0
+25	109		9.3 16.0 0.7 5.2 43.5 9.0 C34.2 45.2	83.74	365	5.40 81.27		80.90 22	First Top 82.41	
1+0	0949	1:1 R 1:1.1 R	16.7 12.1 2.4 47.7 43.4 11.2 C37.2 42.7	83.81	355	5.72 82.05 10	45.2 8.2 C38.8 10	81.28 22	45.9 6.4 C39.5 81.5	6.4 6.6 1.0 66.5
+75	0827		out	84.39	295	4.29 82.88 10	44.5 7.2 C36.9 10	82.21 22	45.0 7.4 C37.6 59.6	7.4 7.1 1.0 67.6
+50	0812	1:1 R	F.P. BM 74.22 12.95 87.17	Drop Inlet 90.40 Wabos	189	2.99 84.18 10	43.0	83.53 22	out	
+32.13	0519			1.20 85.97 6		2.11 85.06 10	43.7 8.2 C35.8 10	84.10 22	42.6 3.4 C34.2 56.8	8.4 8.2 1.0 61.3
0+00	0425	BC = Opp 1:1.02 Rt 864 2R & POC Wabos		86.81 6		86.27 8.08	40.9 8.7 C35.2 8.08	85.93 20.08	41.5 8.7 C32.6 52.7	8.7 8.0 1.0 57.1
BM	6.00	127.21		121.21	07 Road Hub N.E.L.L.			3.69 1.3 C32.6	For Check	

		Left		Right					
	Slope	Hinge	F.P.	F.P.	Hinge				
+36	P.I. Slope 17468 448	419 61 328 448	8870 72	448	640 out	8658-cb 86.79 20.21	8658.cb 85.91 21	out	
+25	12 871-cb on Rt.	41.6 88.4 C332 452	8903 12	8879 6	86.87 10	86.79 21	86.58.cb 85.91 21	out	
+10	12 7.1 R.L.	41.0 72 C338 458	8958 12	393 89.34	595 87.42 10	522 14.8 C373 10	86.46 22	502 14.8 C383 10.5	14.9 15.0 -0.1 65.3
+75	P.I. of Slope	41.45 72	90.24 12	365 89.62	557 87.76		86.74 22		
+70	12 1.1 L.L.	41.45 72 C347 467	90.24 12						
TP	1800	139.64	0.57	126.64					
+50	12 1.1 R.L.	40.7 72 C358 498	89.91 12	372 89.67	569 87.75 10	595 14.8 C383 10	86.79 22	40.4 14.8 C392 8.12	12 15 -0.3 66.2
+25	12	F.P. 87.17 2.55 84.62 8.82	89.70 12	398 89.46	590 87.54 10		86.58 22		
+30	12 1.1 R.L.	93.44 72 C377 415	89.24 12	444 89.00	658 87.08 10	40.6 14.8 C393 10	86.12 22	41.1 14.8 C403 8.3	0.8 1.2 -0.4 67.3
+75	12	TP 85.27 7.60 93.27	88.54 12	514 88.30	706 86.58 10		85.42 22		
+50	12 1.1 on R.L.	Leaves Bound For H. Screen	87.66 12	603 87.47	794 85.50 10	41.7 14.8 C403 10	84.57 22	42.7 14.8 C415 8.5	1.3 1.2 -0.1 88.5
+225	12		86.78 11	063 86.54 6	2.05 84.62 10		83.16 22	out	

127.21 ↓

North East Inner Loop

Left

Right

Super Slope

Hinge

F.P.

1/2

F.P.

Curb

Hinge

Scp 1254

F.P.

93.27

898

BM 84.37

5' W. Co. 1st lot
S.E. Inner Loop
Page 42
(84.28)

on slope dist
52' Pt.
5469.58

IP

549 110.96

141 Rt.

+69.58 FC = opp
154 12.49 POC start of 1st

81.09
6

80.08
9.26

80.60 -cb
80.73 -shute
80.75
C 0.13

80.95
2.2

55.6
5.4
C 30.0
52.0
Fk 110.96

5.5
4.2
40.6
37.0

+51.91

82.30
6

81.13
10

81.17
81.26
C 0.34

81.82
2.2

IP

0.36 116.45 12.74 116.09

+29.85

1.11

84.72

84.63 -cb
9:12
84.47 -shute
F 0.16

83.82
6

82.16
10

82.96
82.69
F 0.27

83.16
2.2

540

0994 141 Rt.

4 + 84.85 = opp end of 1st

86.85 -cb
932 172
85.83
F 0.79
87.69 -cb
11.21
36.15 = 4184.81
F 1.50

85.68
6

84.09
10

84.56
84.82
C 0.24

84.76
2.2

44.1
7.3
C 36.8
38.8

7.0
7.9
-6.6
6.8

+75

109

87.19
12

86.97

85.22

85.10
85.69
C 0.09

85.16
21.5

out

4 + 50

116

111.84

88.71
12

5.26
88.01
6

86.15
10

86.28
86.16
F 0.12

86.34
21

42.5
2.5
C 37.0
38.0

5.5
4.8
-2.8
2.0

BM

762 128.83

121.31

07 Rad. Hld
N.E.L.

	Super Slope	Hinge	EP	d	F.P.	Hinge		
1782			10942=cb. 109.31 Fo.11					
+62 = 66	07 1/2' R		109.28		108.93 38.9 108.93 10.7 8 20.7 8 8 Fo.13	109.34 d 108.98=cb 18.5 9.1 32.6	38.4 10.2 70.2 37.6	
						Curve Return NY. 367b 109.24-8c 109.21 Fo.13	109.97-0 109.43 Fo.54	110.72-0 110.49 Fo.23
TP	12.68	147.36	0.08	134.68				
+50	0.66 1/2' R		110.26. 6		109.33 109.47. 6	10.88 6.2 1.2 7.0 7.5		
+25		June 25-54 Finish 122.12 Pipe 99' R 23.7 23+18.9 122.54 12.86 111.98 0.64 112.62 X	111.55 6		8.90 110.90 6	23.9 9.45 11.2 0.18 6	21.1 11.2 10.6 17.7 22.7	
170	0.425 1/2' R		112.70. 6		7.51 112.19 6	22.5 8.16 9.5 0.13 6	22.8 9.5 10.1 79.7 24.7	
+75		Edge Pat. 5406.2 BM 115.36 23+18.94 2.44 119.80	113.72		6.47 113.33 7.02	23.5 23.3 0.2 7.82	Edge Pat. Oct 11-54 Pipe 99' R 23+19 BM 122.17 8.85 123.02 10.49	
+50	0.26 1/2' R		114.10. 6		5.51 114.29 6	20.5 10.6 11.2 10.3	20.7 11.3 0.7 23.2 11.3 10.7 BM 109.00	
+25		EP #27 R 0+ 115.87 4.845 126.3	115.27 6		4.69 115.11 5.24			
0+00 = P.S.P. 1/2' R	0.02		116.05. 6		3.99 115.81 6	19.0 12.5 6.5 6	12.5 12.1 7.04 24.8	
OPP 23+18.94 Market						16.5 19.8 8.9 8.9 6.0 7.5		
B.M.	12.59	134.76	122.17		Pipe 99' R 23+18.94 BM #29			

+25 Super Slope Hinge 6.50 94.74 EP

+40 1:1 Lt 0.517 1/2 RT 5.17 5.12 96.13 96.13
 12 12
 42.1 12 44
 106.5-81
 527 527 527
 94.02 6.15 44
 97.55 391

+50 1:1 Lt 0.7 1/2 RT 5.18 5.12 98.82 98.82
 40.1 12 1.7 1.7
 109 109 109
 550 550 550
 98.68 6.18 12
 99.10 1.9 1.9
 100.05

+75 1:1 Lt 0.883 1/2 RT 5.18 5.12 101.63 101.63
 11 11.0 11.0
 15467 Bnd Ford Paq 18
 112 112
 102 102
 1102 1102 1102
 101.45 8.11 12
 102.86 6.10 12

+60 = opp End cb on RT 104.89 104.69 8.02
 27 27
 7.7 7.7
 11.0 11.0
 106.67 106.67
 106.65 106.65
 CO.18 CO.18

+43.87 = PSS.098 1/2 RT 108.23 107.32 8.02
 108.46 108.46
 CO.23 CO.23

1+75 147.36

Shoot 14 701 Hinge 584 94.53 EP

584 59.2 597 597
 95.10 95.10 94.99 94.99
 6.55 6.55
 5.6 5.6
 5.50 5.50
 96.50 96.50
 56.8 56.8
 4.1 4.1
 97.84 97.84
 6.2.7 6.2.7
 3.7 3.7
 3.0 3.0
 10.5 10.5
 99.10 99.10
 57.4 57.4
 4.1 4.1
 97.26 97.26
 17.5 17.5
 3.2 3.2
 3.2 3.2
 6.0 6.0
 57.4 57.4
 4.1 4.1
 97.26 97.26
 17.5 17.5
 3.2 3.2
 3.2 3.2
 6.0 6.0
 57.4 57.4
 4.1 4.1
 97.26 97.26
 17.5 17.5
 3.2 3.2
 3.2 3.2
 6.0 6.0
 57.4 57.4
 4.1 4.1
 97.26 97.26
 17.5 17.5
 3.2 3.2
 3.2 3.2
 6.0 6.0

+75 1:1 Lt 0.883 1/2 RT 5.18 5.12 101.63 101.63
 11 11.0 11.0
 15467 Bnd Ford Paq 18
 112 112
 102 102
 1102 1102 1102
 101.45 8.11 12
 102.86 6.10 12

+60 = opp End cb on RT 104.89 104.69 8.02
 27 27
 7.7 7.7
 11.0 11.0
 106.67 106.67
 106.65 106.65
 CO.18 CO.18

+43.87 = PSS.098 1/2 RT 108.23 107.32 8.02
 108.46 108.46
 CO.23 CO.23

1+75 147.36

53 Edge Pav.

BM 10900
 107.1
 1130.7
 12.88
 100.29
 101.85
 101.34

BM 122.17
 12.72
 11.57
 112.55
 0.99
 115.34
 12.73
 100.28
 101.27

102.26
 104.33
 C1.77

437 437
 11.0 11.0
 103.67 103.67
 17.5 17.5
 9.0 9.0
 1.8 1.8

105.05
 104.65
 FO.40

41.1 41.1
 5.6 5.6
 106.75 106.75
 6.76 6.76
 17.5 17.5
 4.35 4.35
 5.35 5.35

108.22
 107.75
 FO.63

North East Outer Connection
to Market St.

	Super Slope	Hinge	EP	±	EP	Hinge	Edge Port.
	0342 1:1 Lt. +58.78 R.S. RT 1/2:1 RT	88.38 12 12.1 12.0 87.98 1.19 89.17X	88.34. 12.7 6 60.1 8	12.90	88.05. 8 15.5 6 2.5 6 2.5	87.86 12.6 17.5 9.0 2.7 19.3	59.0 7.6 43.2 88.85 0.95 89.00
	11:1 Lt. +25 .02 1/2:1 RT	57.0. 13.9 13.7 89.91 53.7 12	57.0. 13.9 13.7 89.88. 6 6	11.30	11.60 89.64. 6 57.2 6 3.7 6 2.5	89.48 17.5 44.4 57.4 3.7 44.4	3.7 3.6 +0.4 79.4
	1:1 Lt. 5+0 0208 1/2:1 RT	91.09 91.09 12.4 8.8X	91.05. 6	10.19	10.44 90.80. 6	90.63 17.5 out	101.39 10.46 119.83
TP	2.91 146.87 +87.74 0225 1:1 Lt. P.T. 1/2:1 RT	10.71 143.96 91.69 12 8.8 12 8.8	91.64. 6 8.8 6 2.5 8.99 92.25 Pipe 79.64 +37.74 RT 1.50.74	9.60	9.87 91.37. 6 2.6 6 2.5 9.29 91.95 6	91.19 17.5 17.5 6.3 19.2 17.5	63.5 5.2 46.5 5.6 5.2 51.5
BM	130.62X Lt. +75 153.64X Lt.	3.91 150.74 93.55 12 6.9 12 6.9	93.48. 6 7.5 6 2.5	7.76	8.16 93.08. 6 7.4 6 2.5 9.29 91.95 6	93.81 17.5 17.5 8.26 7.7 17.5	61.9 4.1 57.8 76.4 8.48 8.48 17.5
	1:1 Lt. +450 0333 1/2:1 RT	3.91 154.67 93.80 12 6.9 12 6.9	93.80. 6 7.5 6 2.5	7.76	8.16 93.08. 6 7.4 6 2.5 9.29 91.95 6	93.81 17.5 17.5 8.26 7.7 17.5	61.9 4.1 57.8 76.4 8.48 8.48 17.5
	4 + 45 = P/S Slopes						

Year	Slope	Figures	Hinge	E.P.	%	E.P.	Hinge	Figures	Hinge
		89.17							
+50	111 Lt 181 1/2	101. 27 324 744	80.81 12 84 95 137	103. 27 324 686 709	8.45	9.93	79.07	118. 18 400. 6	78.02 17.5
+25				81.51	7.19	8.95	80.05		
TP		561	120.89	11.04	115.28	7+50			
+15.70	118 PSC 118 1/2	388 32 357 471	82.11 12	390 37 353 6	81.87		out 80.15	459. 26 419. 6	79.51 17.5
									E.P. 89.00
TP		0.050	126.32	11.00	125.82				
770	11 1/2	382 37 345 491	82.69 12	384 37 347 6	82.47		785	557. 188 81.15 6	80.27 17.5
+75				5.58	83.44		669	80 80 80 17.5	
+50	078 1/2		84.61	4.55	84.45		549	533. 71 83.51 6	82.89 17.5
+25				5.23	85.18		549	533. 71 83.51 6	82.89 17.5
TP		232	136.82	12.27	134.50				
670	046 1/2	Leaves 1100 112	86.63 12	246 26 220 6	86.54		501	108. 122 85.99 6	85.67 17.5
+75				1.38	87.62		501	108. 122 85.99 6	85.67 17.5

Super Slope Hinge E.P.

TP 13.20 109.31 0.51 96.11

+75 0417 1/2 ft

575 75.75

For Beach
9413X
27.8 07 516
For Chms 837 27.8 Rt. 5+50

+50 0617 1/2 ft

1239 76.71

Finish
8917X
10.5L
78.56
80.47X

11
31
36
00
11

+20.58 P.C.S. 0.85 1/2 ft

11.16 77.84

TP 0.43 96.62 12.84 96.19

8+0 1017 1/2 ft

1037 78.63

11 10.3
10.5
10.7
11.0

TP 0.38 109.03 12.24 108.65

+75 .117 1/2 ft

941 79.59

120.89

E.P. Hinge

425 21.4
75.25 72
8 14.5
6 28.7

7492 7.6
17.75 20.7
28.7 33.7

E.P.
8900T
R. of this
TP 7596 714
354 8450
79.50X

1303 207

3rd Guleb 75.97 144
6 66
6 6

45
10
17.75

75.48 21.1
17.75 144
22.8 66.7

5.0
17.75

14.4 75.48
12.7 75.48
+1.7 83.18
27.8 83.78

12.18 19.8

76.82 20.5
6 21.0
6 280

76.14 20.5
17.5 +0.5
21.0 +1.4 E.P.
280 320 level

11.59 31.5

77.41 32
6 380
48.6
9.4
6.2

76.60 32.4
17.5 32.1
32.1 32.1

12.6
7.4
43.2
19.1

3.5
2.9
10.5
37.0

10.82 42.7

78.18 74
6 35.3
6 6

77.24 42.7
17.5 74
35.3 +0.5
35.7 40.7

North East Outer Connection
to Market St.

Super Slope

Hinge

E.P.

9

Bench Grade 2282.51

F.P.

Hinge Face Bench Back Bench

57

Edge Pav

79.50
3.27
BM 74.21
5.50
2.12
7.04
(74.21)

Cost 58

TP 13.15 134.77 0.73 121.62

+77.50 P.T. = opp
90+90 P.C. Ylabach

Finish

80.42 T

BM 74.23

SE Cor. of
Drop 12
90+02
(74.22)

7.90
7.85
71.60
6

766

71.84
6

#2 72.00
18

80.7
+8.7
26.7

78.7
16.7

out

+50 014 1/4" Above
1/4" to Bench

606
6.50
72.76

657

72.93
18
73.04
18

85.0
+18.0
30

82.0
50.0
87.2

5.0
5.0
5.0
72.5

TP 13.13 122.35 0.08 109.23

+25 006

5.7
5.6
73.78
0.75

577

73.76
18
73.95
18

88.0
+14.3
33.3

85.5
52.3
68.5

25.8
3.7
-0.3
87.5

9+0 0217 1/4" Above
1/4" to Bench
Start Bench on Rt.

74.82
5.7
5.6
0.9
11

472
74.78
5.7
5.6
0.9

498

74.52
6
5.9
6.1
10.2
6

91.0
+16.7
34.7

88.0
54.7
58.5

21.3
5.8
0.0
68.5

109.31

Sect 8.33
F.S. 1500
Barber
Chipman
Parks
Kellay
60

Lt. Super Slope Hinge rt
11.FP EP Hinge Face Bench Back Bench

Finish
63.15 A
6.98 4078
TP 36.17 76+0
395
62.12 A Nov. 23-53
For Bench 8 M 57.84
85.17 A

+75
Edge Par
64.86
8.99 07 stub
TP 8.39 13 24 60

+50 = F.V. 0175 4.11
12.7
10.5 30 07 stub
10.2 28 74 87
10.2 5 8 13
10.2 1.8
91.40
0.5 9.8
91.78
91.93
12.7 5
78.8 5
0.2 8.9
79.1 3
72.6 8
67.6 5
67.6 1
67.6 6 X
8 Grade
64.49 A
76.66 X
BM. 53.83 F
6.82 5.6 33
6.82 5

BM ^{M 32}
4.42 107.30 107.49
Pipe
Taken out
Wing Cut
65°
56.65
5
111.75

Base:
8.6
5.0
56.90
56.07
0.0
9.9
9.33
7.67
2.49
3.62
8.09
3.02
24.90
5.55
5.13
2.84
12
24
312
312
12.6
4.7
4.1
7.2
36.2

+85
9.08 69° 9.55
55.78 55.31 7.3 7.6 For check #2
9.17 F 9.71 F 12.3
8.09 8.40 #2
9.00 8.19 12
8.70 8.50 12
12.55 15.5 28 54.75 15.5 4
12 24 24 +8.6
32.6
55.69
55.69
0.0 6.99
12 24 24 +8.6
32.6
9.92
55.83 55.09
12
9.77
8.55
8.01 9.74
8.07 8.57 #2
8.5 8.5 42
2.1 2.9
11.9
11.9
0.3 0.5
12 24 24 +9.5
33.5
121 125 5.8
53.5 36.7 9.8
71.9 -2.0
76.9

82
89
F01
86
9.57
57.1
7.5
9.5
52.65
64.7
7.5
81.5
100
8.50
34.0
12
24
5.7
37.0
62.7 62.7 49.0
5.40 7.5
74.8 7.5
79.8

Super Slope

Hinge

Base:
H.F.P.

F.P.

Hinge

F

501.
501.
0.00
31

57.11
31'

15.0
11.1
0.39
34.9

11.1
8.5
+ 2.8
37.9

+50

1.1 RT

48.
57.87
507.57.74
0.0
conc

TP

3.15

72.06

1.10

18.91

07 RR Stud
46.2 ft of
8x0

47.
47.5
57.44
507.57.74
0.0
conc

F

501.
501.
0.00
31

56.78
31'

13.8
13.8
0.10
11.2

3.0
1.0
+ 1.9
46.8

8+0

Finish
62.187

F

501.
501.
0.00
31

56.45
31'

13.1
1.9
0.17
12.7

1.9
0.8
+ 2.2
47.7

+50

501.
501.
0.00
31
conc

TP

13.29

70.01

10.98

56.72

07 2 x
9+0

538.
538.
0.00
31
conc

56.87
56.74
0.0

F

590.
590.
0.00
31

56.27
24'

11.5
10.4
0.11
25.1

10.4
6.1
+ 4.3
30.8

7+0

56.53
56.40
0.0
conc

57.2
56.8
0.0
conc

F

590.
590.
0.00
31

55.88
24'

11.8
8.8
0.20
27.0

8.8
1.9
+ 7.1
32.0

6+50

1.1 1.1 RT

17.70

6.24
4.87
0.10
25.4

Super Slope

Hinge

Base -
H-EP

EP

Hinge

Sept 16, 63 Parks
Kelleher
62

11+0

1.1Rt

596.
589.
5807
59.55
59.42
0.0
59.47.72 int

659.
587.
6092
58.79
31'
31'
31' Top 6" Water Pipe

9.7
8.8
6.8
+1.8
37.1
37.1

TP

3.33

68.49

6.90

65.16

204.
323.
6011
59.21
59.08
0.0

347.
327.
a.o.
31'
58.45
31'

136
5.1
58.3
39.5
5.1
+0.7
44.5

Finish
62.12T
3.87
58.45
6.92
65.381

10+0

387.
325.
6009
58.88
58.75
0.0
conc

400.
400.
400.
31'
58.12
31'

139
6.2
58.7
37.6
38.6
6.3
+0.4
43.6

+50

Culv.

370.
372.
6002
58.55
58.42
0.0
conc

4.33
57.79
31'

143
9.3
58.0
36.0
9.3
9.1
+0.2
41.0

9+0

1.1Rt

404.
379.
6006
58.21
58.08
0.0
conc

4.64
4.87
6.0
31'
57.45
31'

14.6
10.5
6.1
35.1
10.5
9.2
+1.3
40.1

72.06

Finish 62.12T

	Super	Slope	Hinge
+50	04	10.1	871
+25			
13+0	0175	1.1	RT
+75			
+50	PVC	01	1.1 start Soil Cede
12+0			
11+50			1.1 RT

68.49

Base	HT/EP	EP	Hinge		
318	6.12	3.25	6.92	4.15	7.3
312	6.26	3.55	6.78	4.15	7.8
318	0.0	12		23	23
701	61.69	6.26	7.42		
753		12	8.42		
421	61.12	7.85	5.08	8.2	8.5
457	6.06	8.11	5.08	8.2	8.5
402	0.0	12	23	23	23
758	60.85	60.85	8.18		
789		12	8.27		
496	60.55	5.08	8.40	5.71	8.8
487	60.42	5.71	8.46	5.71	8.5
60.57	0.0	12	31	31	31
544	60.22	5.71	5.71	5.71	5.71
522	60.09	8.26	8.26	8.26	8.26
60.06	0.0	12	31	31	31
564	59.89	6.25	9.4	8.2	8.2
532	59.76	8.2	8.2	8.2	8.2
60.10	0.0	31	31	31	31

Finish 65.38T

South East Outer Connection to Federal Blvd

	Super Slope		Hinge	Base:	HEP	F.P	Hinge			
+50	0925	1:1 Lt. 4:1 Rt.	5.3 4.3 0.0 7	66.70 6'	16.51 0.0	65.40 12	4.54 5.56 F1.02 5.25	5.56 5.56 0.0 23	7.6 10.2 F2.6 23'	10.5 9.9 F0.3 38.4
+25		BM 62.97 6.27 69.94X			2.1V 16.29	65.11	8.59			Edge Pav 68.70X
BM			9.03	62.96	BPSE Cor 11.22.10.11 New Federal + 11.01.11.11 62.97					
1540	.10	1:1 Lt. 4:1 Rt.	5.8 4.2 1.4 7.7	66.18 6'	3.96 3.96 0.0	27.3 65.98 12	3.92 5.16 6.26 F1.1 12	6.26 6.26 0.0 23	8.3 9.9 F1.6 29.4	9.9 9.9 F0.3 24.4
+75					5.13 15.57	64.39	4.31			
TP	5.86	71.99	2.31	66.13	0.0 14+50					
+50	0925	4:1 1:1 Lt.	3.2 2.4 0.8 6.8 5.0	65.25 6'	4.87 4.87 0.0	3.63 15.07 12	5.98 6.92 F0.74 12	6.72 6.72 0.0 23'	5.3 7.2 F1.9 31.6	7.2 7.2 F0.1 36.6
+25					4.29 64.46	63.46 12	5.21			
1440	07	10:1	163. 152. 0.0 11. 5'	63.25 5'	1.67 1.67 0.0	63.76 12	2.46 5.29 F0.77 12	62.15 23'	5.23 5.23 0.0 23	
	065	13791.43 BC Pt. 10:1 13792.17 Back	5.0 0.0 0.0 5.0 PKAC	63.48 5'	5.70 63.50 0.0	62.72 12	5.98	62.00 23'	6.5 7.4 F0.9 31.0	7.4 7.4 0.0 37.0
+75		68.49			5.71 62.99	62.55 12	6.35			

Super Slope

Hinge

Base:
H.F.P.

F.P.

Hinge

+50

02 1:1

Edge Paving
BM 62.97
7.78
70.75
Flg. 18-54
B.P. S.E. Cor
Yang Hwa
New Federal
+ Chollas Bridge

428
422
66.5
10.1
00
H.C.

66.71
12

4.04

66.87
24'

12.0
11.0
01.0
25.0
11.0
10.7
+0.6
30.0
5.4
0.7

+25

425
404
66.50
10.1
10.1

66.56

4.19

17+0

01 1:1

BM 62.96
7.71
72.67
72.98
63.69
B.P. S.E. Cor
Yang Hwa
New Federal
+ Chollas Bridge
at FCHab
15+2384
2110-40
63.59

433
386
66.52
00
10.1
H.C.

66.40
12

4.35

66.32
24'

15.6
12
08.7
32.4
4.2
3.8
+0.6
37.4

+75

450
399
66.55
0.57
10.1
H.C.

66.25

4.50

+50

04 1:1

336
330
66.58
00
10.1

66.10

3.84
4.16
0.32
12
4.65

4.16
4.16
60
65.78
24'

13.1
4.4
08.7
32.7
4.6
3.7
+3.1
37.7

16+25

0.55 1:1

123.22
00
66.72
0.45
H.C.

433
332
66.61
00
4.14
H.C.

65.95

3.99
4.16
0.44
12
4.80

4.43
4.43
0.0
65.51
24'

1549337 EG. 0742 1:1

780

7890

0.89

71.10

314
312
00
66.80
0.01
6'

329
328
66.65
00
4.10
H.C.

65.76

4.18
4.27
0.59
12
4.99

4.77
4.77
00
65.17
24' 24'

10.7
3.4
10.3
34.3
3.7
+0.7
32.3

77+75

780

7199

66.62
00

65.62

4.13
5.13
12
69.94

Super Slope

Base:
4FP

F.P.

Hinge

66

+50 .022 1:1

Edge Parings
70.75 X

16.17
26

66.39
36

134
455
23
25
FOZ1

66.56
47.75

50
+9.6
-1.6
82.4

+18 Eycleval
67.4

48+25 .03 1:1

66.15
26

66.49
37.5

66.72 out
49.44

47 +97.48 Ahead Base of Federal
+85.76 Back .037 1:1

70
450
257
20.03
70.26
66.15
0.0

66.59
12

4.06

66.88
24

4.7
+2.5
-0.2
31.2

+4.4 Eycleval
38.2

+50 .043 1:1

70
453
252
8.00
70.26
66.22
0.0

66.73
12

4.02

67.07
24

4.5
2.9
2.1
4.6
2.6

2.9
+1.2
+1.7
50.6

+25

70
446
250
8.00
70.26
66.29

66.80

3.95

on State
RR SPL RR
34.44 to
47+23.28

TP 4.73 71.59 12.04 66.86

18+0 .04 1:1

70
438
240
8.00
66.37
0.0

66.83
12

3.92

67.14
24

11.8
10.3
0.15
25.5

10.3
7.3
+3.0
30.6

+75

78.90

70
431
234
8.00
66.44
0.0

66.81
12

3.94

	Spec	Slope			Base - 2 Federal	EP	Hinge		
50+0						$\frac{32.51}{3.71}$ $\frac{0.00}{0.00}$	$\frac{67.27}{12}$ $\frac{1.09P}{21}$	$\frac{66.92}{32}$ $\frac{5.00}{32.0}$ $\frac{10.50}{37.0}$	$\frac{62.97}{7.26}$ $\frac{70.73}{70.73}$
									R.P.S.E.C. Cor W. of New Federal Schollar Bridge
+75		1:1			$\frac{16.90}{26.22}$	$\frac{16.90}{26.5}$	$\frac{66.72}{32.56}$		
+50	1	1:1			$\frac{16.62}{22.89}$	$\frac{4.11}{0.0}$ $\frac{16.62}{24}$	$\frac{2.11PP}{21.87}$	$\frac{66.56}{34.25}$ $\frac{5.50}{32.5}$ $\frac{10.50}{37.0}$	
+25	0	1:1			$\frac{16.41}{24}$	$\frac{16.41}{26.5}$	$\frac{66.41}{37.06}$		
TP	3.58		71.89	5.28	66.31				
49+0	.008	1:1			$\frac{16.28}{25.11}$	$\frac{4.41}{0.0}$ $\frac{16.32}{30}$	$\frac{5.89PP}{24.11}$	$\frac{66.38}{41}$ $\frac{5.2}{43.0}$ $\frac{6.5}{48.0}$	
48+75	.015	1:1			$\frac{16.21}{25.78}$	$\frac{16.33}{33.50}$	$\frac{66.45}{44.94}$ $\frac{5.1}{47.5}$	$\frac{6.8}{48}$ $\frac{6.8}{48}$	

71.59

South West Outer Connection
to Market St. North East
Stationing

Sheet 15

68

F.P.

2

F.P.

+75

57.72
8

57.56
8

+50

58.88

58.77

+25

59.96

+0.84 FC.

60.72

+0

61.13

+75

62.88

Left Hand

+50

63.57

+25

64.69

+0 BC/LT = Opp
13+26.39 PRC Right Hand

65.90
8

South West Outer Connection
to Market St North East

	FP	FP	Carb
+20		57.12	57.62
840		57.48	57.98
+80		57.20	57.70
+72.00 B.C.Lt		56.96	57.46
+60		56.60	57.10
+43.33 B.C. Jo FP	56.24	56.13	56.63
+30	56.13	55.96	56.46 Carb out Cross Drain
+15	56.28	56.04	56.54
		6.38	6.38
+0	56.66	56.39	56.89
		7.42	7.42

South West Outer Connections
to Market St. North East.

Super Slope

FP

d

FP

Hiops

70

+60

58.57
6

58.36
6

+35.09

57.11
6

56.58
6

+20

56.54
6.36

55.87

+10

054

56.12
8.06

55.36

+85

046

56.04
10.31

55.29

3+7/01 FC. 034

56.17
12.92

55.47

+

+

3+3550 = 1' P. 0.28

56.60
6

57.10-08

South West Outer Connection
to Market St. North East.

2

F.P.

Hinge

71

+3798 = SWOG
to West Page 20

63.91

64.91
6

5+15

62.28

63.09

+9133 B.C.H.

60.66

61.06

4+75

59.55
6

59.65
6

Grader Southwest Outer Conn. to Market St.
South + East Edge of Paving

Sheet 15

72

ST.F.P.

2 + 05.30 Opp 1807 H

57.60

+ 88.63 P.C.C.

57.60

+ 77.33

57.36

+ 59.33

56.78

2 + 43.33 B.C.Lt.

56.39

Grader Concrete Crib Retaining Wall
Left 90+57.82 to 94+94

Pan Sheet 11+15
Details of Crib Sheet 44
Bottom

2223-30

Top of Crib
Bc Cont. **75**

Station	Type	Out	High	Top Plan	Bottom	Rate	Top of Crib	Bc Cont.
+90	Circ 8 Type	2.84 2.685	17.00 16.08	54.00 H 53.08 B	57.00	6.10 N 7.025	53.98 52.96	
+72	x	2.685 2.53	16.08 15.17	53.08 H 52.17 B	7.86	7.05 N 7.985	53.03 F 52.10 B	NW BP Federal Bldg Cholla Bridge 04 BM 53.84 1.13 54.97 12.38 42.59 6.59 49.78 A 48.27 or 85.82 BM 407 90+99.68 0+60
+66	x	2.53 2.38	15.17 14.25	52.17 H 51.25 B		8.00 N 8.905	52.08 51.18	
+60	x	2.38 2.38			7.86 / C4.74 2.01			
+54	700' Lt	2.38 2.23	14.25 13.33	51.25 H 50.33 B		8.83 N 9.755	51.25 50.33	BM 4091 3.25 44.86
+42	x	2.23 2.07	13.33 12.42	50.33 H 49.42 B	7.86	9.90 N 10.835	50.18 49.15	
+12	x	2.07 1.92 3.22	12.42 11.50	49.42 H 48.50 B	7.86	10.71 N 11.655	49.37 48.43	
0+00 = Opp		1.92	11.50	48.50	57.00	7.86 / C 5.28 2.01 N	11.65 N	48.43
90+57.82	Habars							
78.0	W of Habars							
For Top of Crib	BM	6.24	60.08	53.84				60.08 T

Use Type D
80 outside Habars to Habars
Batter 1:6

NW BP
Federal Bldg
Cholla
Bridge 04

Out High Top Plan Bottom Peds Top of Crk. Rf Const.

+54	+	2.84 2.99	17.00. 17.92.	54.00 Hb 54.92 Bt	37.00	6.08 N 5.15 S	54.00 54.93	
2+16	+	2.99 3.14	17.92. 18.83.	54.92 Hb 55.83 Bt		5.18 N 4.25 S	54.90 55.73	44.86 N 7.86 37.00 10.57
+92	x	3.12 3.30	18.83. 19.75.	55.83 Hb 56.75 Bt		4.19 N 3.27 S	55.89 56.71	47.59 N
+74								
1+56	+	3.30 3.88	19.75.	56.75	7.86	3.31 N	56.77	
+26	+	3.30 3.14	19.75. 18.83.	56.75 Hb 55.83 Bt	7.86	3.28 N 4.21 S	56.80 55.87	
+14		3.14 2.99	18.83. 17.92.	55.83 Hb 54.92 Bt		4.14 N 5.08 S	55.94 55.00	
1+02	+	2.99 2.84	17.92. 17.00.	54.92 Hb 54.00 Bt	57.00	5.13 N 6.05 S	54.95 54.03	

96.07

CLIP TO P. 58
117 outside Sta 105K

Batter 1.1

60.08 N For Top cb

		Out	High	Top Plan	Bottom	Rodr	Top of Cris at Coast	
+60	x	1.92 2.23	11.50 13.33	50.50 H 51.33 B	39.00 H 38.00 B	8.59 9.66 H 8.75 S	50.42 51.23	
+48 = opp 93+96.35	x	2.23 2.73		51.33	9.59	9.78 20.11	51.29	
+36	x	2.23 2.38	13.33 14.25	51.33 H 52.25 B	9.59	8.81 H 7.88 S	51.27 52.20	47.59 x 10.57 37.00 10.59 47.59 x
+06	x	2.38 2.52	14.25 15.17	52.25 H 53.17 B	9.59	7.92 H 6.97 S	52.16 53.11	
+76	x	2.53 2.84	15.17 17.00	53.17 H 54.00 B	9.59 58.00 H 57.00 B	6.94 H 6.01 S	53.14 54.07	
+52 opp 92+96.60	x	2.84 3.34	17.00	54.00	57.00	6.83 20.11	54.04	

79pc D

96pc 116

Type B

98.00

96.07

60.08 T

Concrete Crib Retaining Wall

Out

High

Top
Plan

Bottom

Rod

Top of Crib
at Coast

47.597

+46 = " " at Coast.
+44 = North End 1.92
Opp 94+91 550.25

11.50

50.50

39.00

C 5.98 9.82
20.71

50.26

4+80

For Over Head Water Line

4+15

6" E = 6x6

Conc Footing

Top 44.10
Bottom 43.0

Bottom 12" C.I. (57.12)

8.59

4+045

C.I. Sewer Pipe

Batter 1:1

43.39

+96

77pc D

8.59

9.62 N+S 50.46

3472

1.92

11.50

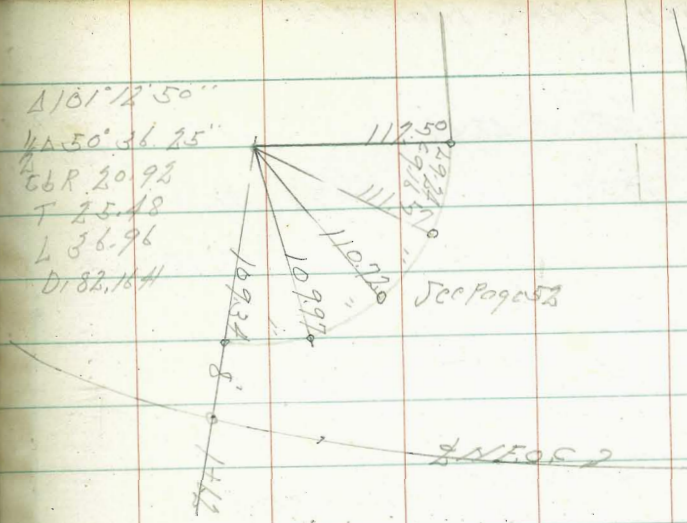
50.50

39.00

8.59

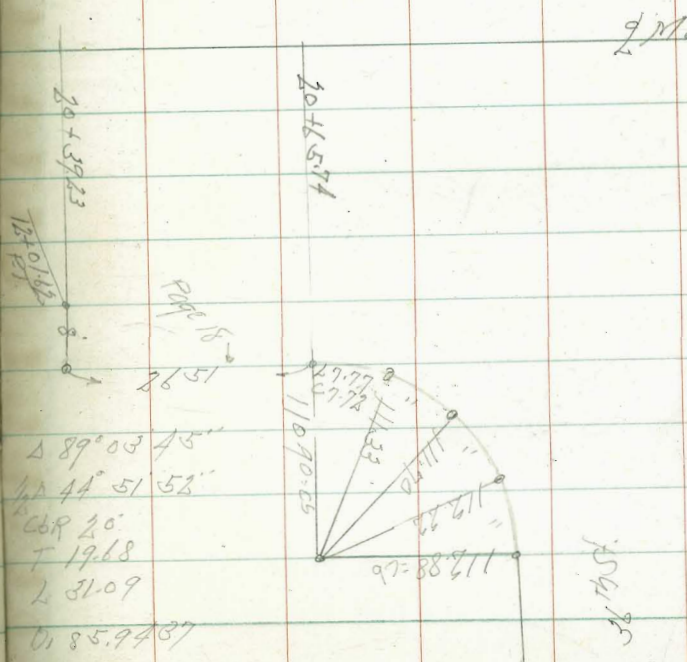
$0^{\circ} 00' 00''$
 $12^{\circ} 39' 06''$
 $25^{\circ} 18' 12''$
 $37^{\circ} 57' 19''$
 $50^{\circ} 36' 25''$

$\Delta 101^{\circ} 12' 50''$
 $\Delta 50^{\circ} 36' 25''$
 CBP 20.92
 T 25.48
 L 36.96
 D 82.164



$0^{\circ} 00' 00''$
 $12^{\circ} 39' 06''$
 $25^{\circ} 18' 12''$
 $37^{\circ} 57' 19''$
 $50^{\circ} 36' 25''$

$\Delta 89^{\circ} 03' 43''$
 $\Delta 44^{\circ} 51' 52''$
 CBP 20
 T 19.68
 L 31.09
 D 85.9987



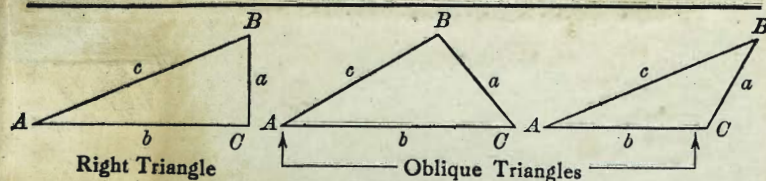
Market St

154.95

80 Bench Levels Market St

BM	0.80	48.54		47.74	Chart 12 SFCor Bridge Market 4C 50/1101
	12.29	33.51	740	41.14	
BM			099	52.52	2 L+T 0145

ne
ft.
=
pe
he
w-
41.
st-
ft.
|



Solution of Right Triangles

For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{a}$, $\operatorname{cosec} = \frac{c}{a}$

Given	Required	Formulas
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B, c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B, b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90^\circ - A, b = a \cot A, c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A, a = b \tan A, c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A, a = c \sin A, b = c \cos A$

Solution of Oblique Triangles

Given	Required	Formulas
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180^\circ - C, \tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a + b + c}{2}, \sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}, C = 180^\circ - (A + B)$
a, b, c	Area	$s = \frac{a + b + c}{2}, \text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
A, b, c	Area	$\text{area} = \frac{bc \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL

Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = 5° 10'. From Table, Page IX. $\cos 5^\circ 10' = .9959$. Horizontal distance = 319.4 × .9959 = 318.09 ft. Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle) With the same figures as in the preceding example, the following result is obtained. $\cos 5^\circ 10' = .9959, 1 - .9959 = .0041, 319.4 \times .0041 = 1.31, 319.4 - 1.31 = 318.09$ ft.

When the rise is known, the horizontal distance is approximately: — the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.