SD 523
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F.B. 523

523

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

MICROFILMED
SEP 1 1968

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be 30.6+(20—16)÷2 or 2 ft. added to 30.6 =32.6. For slopes of 1 on 1½ see inside of back cover.

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Smale
Chisholm 5-26-22

1

Sta. -	+ From	H.I.	-	Elev.	Grade	Cut	Staked on 6' offset W.
0+00	BS0.4-P65	370.43	4.21	366.22	361.17	5.05	MH#154
+25 TP			4.16	66.27	61.26	5.01	
+50	6.37	72.64	6.29	66.35	61.35	5.00	
+75			5.90	66.74	61.44	5.30	
1			5.55	67.09	61.54	5.55	
+25			5.43	67.21	61.63	5.58	
+50			5.30	67.34	61.72	5.62	Grade Sheet #251
+75			5.11	67.53	61.81	5.72	
2			5.03	67.61	61.90	5.71	
+25			4.62	68.02	61.99	6.03	
+50			4.34	68.30	62.09	6.21	
+75			4.25	68.39	62.18	6.21	
3+00			3.73	68.91	362.27	6.64	F.T. #23 -
TP			6.42	66.22	——	——	
BM	6.37	72.69	6.66	66.03	366.04		

BP - N.W. Stockton at Olive. -

5th St. Copeland alley

Smale
Chisholm } 5-27

2

Sta.	+	H.I.	−	Elev.	Grade	Cut	Staked on 6 offset W.
0+00		71.94	4.54	67.40	359.80	7.60	MH #148
+25			4.41	67.53	59.90	7.63	
+50			3.95	67.99	60.00	7.99	
+75			3.69	68.25	60.10	8.15	
1			4.25	67.69	60.20	7.49	
+25			4.56	67.38	60.30	7.08	
+50			4.86	67.08	60.40	6.68	Grade Sheet # 244 -
+75			5.28	66.66	60.50	6.16	
2			5.90	66.04	60.60	5.44	
+25			6.36	65.58	60.70	4.88	
+50			6.52	65.42	60.80	4.62	
+75			6.95	64.99	60.90	4.09	
3+00 65			7.25	64.69	361.00	3.69	F.T. #22 -
2+75	50.4 - 71		4.50	67.44			

4.75

5.25

Stockton - Conklin alley - MH# T-39 — Smale / Brown } 6-5-22

Sta.	+	H.I.	-	Elev.	Grade 24.05%	Cut	Staked on 6' offset W-
BM				301.89		BP-	N.W. Stockton at Center.
TP	2.71	304.60	6.85	297.75			
BM	2.41	300.16	7.09	293.06	?	BP-	West- ~~East~~ curb Stockton north of Chatham
TP			11.70	88.46			
2+00 TP	4.23	92.69	12.57	80.12			
TP	0.46	80.58	12.85	67.73			
TP	0.34	68.07	12.42	55.65			
TP	1.77	57.42	12.47	44.95			
0+00	0.43	45.38	12.67	32.71	227.60	5.11	MH# T-39 - Grade on W/S MH ring at ℄ E & W. - Line from 1x2 - 10' S of MH center on 6' offset W.
+25			10.47	34.91	33.61	1.30	Grade Sheet # 252
+50 TP			0.43	44.95	39.63	5.32	
+75	13.13	58.08	8.79	49.29	45.64	3.65	
1+00 TP			0.32	57.76	51.65	6.11	
+25 TP	12.95	70.71	3.37	67.34	57.66	9.68	
+50	12.72	80.06	7.42	72.64	63.68	9.06	
+75			3.98	76.08	69.69	6.31	
2			+0.09	80.15	75.70	4.45	
TP			1.15	78.91	—	—	
+17.9	12.96	291.87	9.09	282.78	280.00	2.78	MH# 202

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Sta.	+	H.I.	−	Elev.	Grade 6.51%	Cut	Staked on 6' offset W.
0+00		291.87	9.09	282.78	280.00	2.78	MH # 202
+25			4.86	87.01	81.63	5.38	
+50 TP			1.45	290.42	83.26	7.16	
+75	12.69	303.11	10.10	93.01	84.88	8.13	
1			8.36	94.75	86.51	8.24	
+25			7.06	96.05	88.14	7.91	Grade Sheet #253
+50			5.82	97.29	89.77	8.52	
+75			4.70	98.41	91.39	7.02	
2			3.80	99.31	93.02	6.29	
+15			3.38	99.73	294.00	5.73	MH # 201

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Sta.	+	H.I.	-	Elev.	Grade 1.2%	Cut	Staked on ℄ offset W.
0+00		303.11	3.38	299.73	294.00	5.73	MH #201
+25			2.43	300.68	94.30	6.38	
+50			1.71	301.40	94.60	6.80	
+75			1.00	302.11	94.90	7.21	
1 TP			0.28	302.83	95.20	7.63	
+25	8.22	311.05	7.49	303.56	95.50	8.06	Grade Sheet # 254
+50			7.06	303.99	95.80	8.19	
+75			6.49	304.56	96.10	8.56	
2			5.76	305.29	96.40	8.89	
+25			5.35	305.70	96.70	9.00	
+50			5.02	306.03	297.00	9.03	MH #200

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Smale / Brown 6-5-22

Staked on 6' offset W.

Sta.	+	H.I.	-	Elev.	Grade 1.2%	Cut.	
0+00		311.05	5.02	306.03	297.00	9.03	MH # 200
+25			4.47	306.58	97.30	9.28	
+50			4.01	307.04	97.60	9.44	
+75			3.95	307.10	97.90	9.20	
1			3.53	307.52	98.20	9.32	
+25			3.24	307.81	98.50	9.31	
+50 TP			2.82	308.23	98.80	9.43	Grade Sheet #254
+75	2.85	311.08	2.73	308.35	99.10	9.25	
2			2.54	308.54	99.40	9.14	
+25			2.49	308.59	99.70	8.89	
+50			3.90	307.18	300.00	7.18	MH#199
BM			9.12	301.96	301.89		

BP- N.W.- Stockton at Center-

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Sta.	+	H.I.	−	Elev.	Grade 1.176%	−Cut	
0+00				307.18	300.00	7.18	Staked on 6' offset W. MH#199
+25	6.84	314.02	8.31	305.71	300.29	5.42	
+50			8.28	305.74	300.59	5.15	
+75			8.34	305.68	300.88	4.80	
1			7.21	306.81	301.18	5.63	
+25			5.25	308.77	301.47	7.30	
+50			3.98	310.04	301.76	8.28	
+75			3.91	310.11	302.06	8.05	Grade Sheet #256
2			3.50	310.52	302.35	8.17	
+25			3.11	310.91	302.65	8.26	
+50			2.80	311.22	302.94	8.28	
+75			2.59	311.43	303.23	8.20	
3 TP			2.38	311.62	303.53	8.09	
+25	6.37	317.99	6.20	311.79	303.81	7.98	
+40			5.97	312.02	304.00	8.02	MH#198

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Smale
Chisholm } 6-7-22

Sta.	+	H.I.	−	Elev.	Grade 1.183%	Cut	Staked on 6' offset W.
0+00		317.99	5.97	312.02	304.00	8.02	MH # 198
+25			6.03	311.96	304.30	7.66	
+50			5.49	312.50	304.59	7.91	
+75			4.84	313.15	304.89	8.26	
1			4.74 ✓	313.25	305.18	8.07	
+25			4.58	313.41	305.48	7.93	
+50			4.06	313.93	305.77	8.16	
+75			3.54	314.45	306.07	8.38	Grade Sheet #257
2			2.81	315.18	306.37	8.81	
+25			2.18	315.81	306.66	9.15	
+50 TP			1.63	316.36	306.96	9.40	
+75	4.76	321.12	4.02	317.10	307.25	9.85	
3			3.60	317.52	307.55	9.97	
+25			3.00	318.12	307.84	10.28	
+37.9			3.30	317.82	308.00	9.82	MH # 197 −
BM			10.93	310.19	310.14		

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Sta.	+	H.I.	-	Elev.	Grade 2.26%	Cut.	Staked on 6' offset W.
0 +00	From Page 9 -			317.82	308.00	9.82	MH #197
0 +25	6.18	324.00	8.83	15.17	8.57	6.60	
+50			8.50	15.50	9.13	6.37	
+75			8.71	15.29	9.70	5.59	
1			7.78	16.22	10.26	5.96	
+25			5.09	18.91	10.83	8.08	
+50			3.89	20.11	11.40	8.71	
+75			4.27	19.73	11.96	7.77	
2			4.11	19.89	12.52	7.37	Grade Sheet #258 -
+25			4.39	19.61	13.09	6.52	
+50			3.94	20.06	13.66	6.40	
+75			3.09	20.91	14.22	6.69	
3 TP			1.96	322.04	14.79	7.25	
+25	8.80	330.84	8.90	21.94	15.35	6.59	
+50			7.16	23.68	15.92	7.76	
+75			6.46	23.38	16.48	6.90	
3+99.6			6.31	24.53	317.04	7.49	MH #196

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Sta.	+	H.I.	−	Elev.	Grade	Cut.	
	From				2.262%		
0+00	Page 10	330.84	6.31	24.53	317.04	7.49	Staked on 6' offset W. MH #196
+25			5.52	25.32	17.61	7.71	
+50			5.03	25.81	18.17	7.64	
+75			4.66	26.18	18.74	7.38	
1			4.28	26.56	19.30	7.26	
+25			4.01	26.83	19.87	6.96	
+50			4.00	26.84	20.43	6.41	
+75			4.27	26.57	21.00	5.57	Grade Sheet #259-
2			4.00	326.84	21.56	5.28	
+25	8.64	335.48	8.49	26.99	22.13	4.86	
+50			7.90	27.58	22.70	4.88	
+75			6.96	28.52	23.26	5.26	
3			5.74	29.74	23.83	5.91	
+25			5.44	30.04	24.39	5.65	
+50			5.08	30.48	24.96	5.42	
+75			5.27	30.21	25.52	4.69	
+99.6			4.10	31.38	326.08	5.30	MH #195
BM			4.39	331.09	331.06		BP- N.W. Stockton at Howard-

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Smale
Chisholm } 6-8-22

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Sta.	+	H.I.	-	Elev.	Grade .37%	Cut -	Staked on 6' offset
0+00		338.48	4.10	31.38	326.08	5.30	MH#195
+25			3.19	32.29	26.16	6.13	
+50			2.65	32.83	26.23	6.60	
+75			2.22	33.26	26.31	6.95	
1			1.79	33.69	26.38	7.31	
+25	8.02	41.71	7.47	34.24	26.46	7.78	
+50			7.09	34.62	26.53	8.09	
+75			6.59	35.12	26.61	8.51	Grade Sheet #260
2			5.90	35.71	26.68	9.03	
+25			5.53	36.18	26.76	9.42	
+50			4.99	36.72	26.83	9.89	
+75			4.41	37.30	26.91	10.39	
+80			4.12	37.59	326.92	10.67	MH#194 -

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Smale / Brown } 6-12-22

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Sta.	+	H.I.	-	Elev.	Grade .3%	Cut	Staked on 6' offset W.
0+00		341.71	4.12	37.59	326.92	10.67	MH#194
+25			3.89	37.82	327.00	10.82	
+50			3.28	38.43	27.07	11.36	
+75			2.92	38.79	27.15	11.64	
1			2.33	39.38	27.22	12.16	
+25 TP			2.13	39.58	27.30	12.28	
+50	6.28	45.86	5.96	39.90	27.37	12.53	Grade Sheet #261
+75			5.43	40.43	27.45	12.98	
2			5.04	40.82	27.52	13.30	
+25			4.84	41.02	27.60	13.42	
+50			4.51	41.35	27.67	13.68	
+80			4.40	41.46	327.76 S.B	13.70	MH#193
BM			2.80	43.06	343.08 S.B.	B.P. -	N.W. Stockton at Castle-
BM			8.56	37.30	337.26	✓	✓ Conklin ✓ ✓

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Smale / Brown 6-12-22

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Sta.	+	H. I.	−	Elev.	Grade .3%	Cut.	Staked on 6' offset W.
0+00		345.86	4.40	41.46	327.76	13.70	M#193
+25			6.05	39.81	27.84	11.97	
+50			5.70	40.16	27.91	12.25	
+75			5.85	40.01	27.99	12.02	
1			5.36	40.50	28.06	12.44	
+25			stake out	—	28.14	—	
+50			2.30	43.56	28.21	15.35	
+75 TP			2.17	43.69	28.29	15.40	
2	6.30	49.99	5.92	44.07	28.36	15.71	Grade Sheet #262
+25			5.87	44.12	28.44	15.68	
+50			5.62	44.37	28.51	15.86	
+75			5.61	44.38	28.59	15.79	
3			5.45	44.54	28.66	15.88	
+25			5.17	44.82	28.74	15.08	
+50			4.71	45.28	28.81	16.47	
+80			5.18	44.81	328.90	15.91	M#192

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Smale } 6-13-22
Chisholm }

Sta.	+	H.I.	-	Elev.	Grade .3%	Cut	Staked on 6' offset W.
0 +00		349.99	5.18	44.81	328.90	15.91	MH#192
+25			5.19	44.80	28.98	15.82	
+50			5.00	44.99	29.05	15.84	
+75			5.11	44.88	29.13	15.75	
1			4.76	45.23	29.20	16.03	
+25 TP			4.61	45.38	29.28	16.10	
+50	5.27	50.65	5.05	45.60	29.35	16.25	
+75			4.93	45.72	29.43	16.29	Grade Sheet #263
2			4.95	45.70	29.50	16.20	
+25			4.92	45.73	29.58	16.15	
+50			5.18	45.47	29.65	15.82	
+75			5.28	45.37	29.73	15.64	
3			5.52	45.13	29.80	15.53	
+25			9.68	40.97	29.88	11.09	
+50			9.38	41.27	29.95	11.22	
+59±			9.19	41.46	329.98	11.48	MH#191 (St. Grade 341.1)
BM			3.51	47.14	347.09	BP-	N.W. Stockton at Klauber

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Sta.	+	H.I.	–	Elev.	Grade ·390	Cut	Staked on 6' offset W.
0+00		350.65	9.19	41.46	329.98	11.48	MH#191
+25			9.89	40.76	30.06	10.70	
+50			9.38	41.27	30.13	11.14	
+75			10.80	39.85	30.21	9.64	
1 TP			12.27	38.38	30.28	8.10	
+25	1.51	39.89	3.46	36.43	30.36	6.07	
+50			5.66	34.23	30.43	3.80	Grade Sheet #264-
+75			6.14	33.75	30.51	3.24	
2			8.16	31.73	30.58	1.15	
+25			9.30	30.59	30.66	F 0.07	
+50			9.33	30.56	30.73	F .17	
+75			6.97	32.92	30.81	2.11	
3 TP			2.12	37.77	30.88	6.89	
+25	13.08	50.85	8.78	42.07	30.96	11.11	
+40	South -		6.30	44.55	331.00	13.55	MH#190 - 8" pipe -
	North -		6.30	44.55	338.30	6.25	Drop -

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Smale } 6-20-22
Gray }

Sta.	+	H.I.	-	Elev.	Grade 1.16%	Cut	- Staked on 6' offset W. -
0+00		350.85	6.30	44.55	338.30	6.25	MH #190
+25			3.83	47.02	38.59	8.43	
+50			2.74	48.11	38.88	9.23	
+75			1.85	49.00	39.17	10.83	
1			1.24	49.61	39.46	10.15	
+25 TP			0.50	50.35	39.75	10.60	
+50	6.39	56.74	5.79	50.95	40.04	10.91	
+75			5.72	51.02	40.33	10.69	Grade Sheet #265-
2			5.15	51.59	40.62	10.97	
+25			5.30	51.44	40.91	10.53	
+50			4.48	52.26	41.20	11.06	
+79 4			4.68	52.06	341.54	10.52	MH #189-

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3.62 53.12

Smale } 6-22-22
Brown }

Cont'd from Page 17

Sta.	+	H.I.	–	Elev.	Grade 1.156%	Cut	Staked on 6' offset W –
0+00				352.06	341.54	10.52	MH #189 Alley BK
+20	5.28	57.34	4.22	53.12	41.77	11.35	
1			4.03	53.31	42.69	10.62	
+25			4.55	52.79	42.99	9.70	
+50			5.13	52.21	43.27	8.94	
BM			4.43	352.91	S.B. 352.91		B.P. – N.W. Stockton at Univ.
+75			5.18	52.16	43.56	8.60	
2			5.51	51.83	43.85	7.98	Grade Sheet #266
+25			6.76	50.58	44.14	6.44	
+50			7.60	49.74	44.43	5.31	
+75			8.26	49.08	44.72	4.36	
3 TP			8.26	49.08	45.01	4.07	x
+25	8.95	58.03	8.71	49.32	45.30	4.02	
+40			7.78	50.25	345.47	4.78	MH #188 Alley BK #2

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Smale / Brown 6-22-22

Sta.	+	H.I.	−	Elev.	Grade 1.156%	Cut	Staked on 6' offset W.			
0+00		358.03	7.78	350.25	345.47	4.78	MH #188	Alley Blk 42		
+25			6.73	51.30	45.76	5.54				
+50			6.32	51.71	46.05	5.66				
+75			5.78	52.25	46.34	5.91				
1			5.30	52.73	46.63	6.10				
+25			4.59	53.44	46.92	6.52				
+50			3.94	54.09	47.20	6.89				
+75			3.73	54.30	47.49	6.81	Grade Sheet #267			
2			3.52	54.51	47.78	6.73				
+25			2.70	55.33	48.07	7.26				
+50			2.20	55.83	48.36	7.47				
+75 TP			1.29	56.74	48.65	8.09				
3	6.48	63.22	6.06	57.16	48.94	8.22				
+25			5.45	57.77	49.23	8.54				
+40			5.25	57.97	349.40	8.57	MH #187		8"	south
					349.60			Alley Blk 42	6"	north -

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Sta.	+	H.I.	–	Elev.	Grade .875	Cut-	Staked on 6' offset W.			
0 +00		363.22	5.25	57.97	349.60	8.37		MH #187	Alley Blk 47	6" north
+30			6.74	56.48	49.82	6.66				
+50			6.82	56.40	50.04	6.36				
+75			5.17	58.05	50.26	7.79				
1			4.61	58.61	50.48	8.13				
+25			4.42	58.80	50.69	8.11				
+50			4.47	58.75	50.91	7.84		Grade Sheet #268		
+75			3.83	59.39	51.13	8.26				
2			3.61	59.61	51.35	8.26				
+25 TP			3.84	59.38	51.57	7.81				not checked-
+50	5.73	65.11	5.66	59.45	51.79	7.66				
+75			5.20	59.91	52.01	7.90				
3			5.00	60.11	52.23	7.88				
+25			5.69	59.42	52.45	6.97				
+34.83			4.90	60.21	352.53	7.68		MH #186		

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Smale / Brown } 6-22-22

Sta.	+	H.I.	—	Elev.	Grade .874%	Cut	Staked on 6' offset W-
0+00		365.11	4.90	60.21	352.53	7.68	MH#186
+25			4.63	60.48	52.74	7.74	
+50			4.80	60.31	52.97	7.34	
+75			4.37	60.74	53.19	7.55	
1			4.14	61.07	53.40	7.67	
+25			3.85	61.26	53.62	7.64	
+50 TP			4.00	61.11	53.84	7.27	
+75	5.60	66.71	4.41	62.30	54.06	8.24	Grade Sheet #269
2			4.69	62.02	54.28	7.74	
+25			4.41	62.30	54.50	7.80	
+50			3.93	62.78	54.72	8.06	
+75			4.14	62.57	54.93	7.64	
3			4.52	62.19	55.15	7.04	
+25			4.43	62.28	55.37	6.91	
+40 S.W.			4.09	62.62	355.50	7.12	MH#185-
NE			3.94	62.77			
BM			3.93	62.78	S.B. 362.79		B.P - N.W. - Conklin + Orange $\frac{62}{5}$

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Smale / Chisholm } 6-23-22

Cont'd from Page 21.

Sta.	+	H.I.	−	Elev.	Grade .407%	Cut	Staked on 6' offset W.
0+00 SW, From P21				362.62	355.50	7.12	MH #185
							St. Grade 162.5 -
+25	4.91	367.53	4.98	362.55	55.60	6.95	
+50			5.06	62.47	55.70	6.77	Grade Sheet #270 -
+75			5.10	62.43	55.81	6.62	
			5.15	62.38	55.91	6.47	
+22.82 S.W.			5.34	62.19	356.00	6.19	MH #184
+22.82 N.E.			5.19	62.34			St. Grade 161.88

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Sta.	+	H.I.	—	Elev.	Grade .4006'	Cut	Staked on 6' offset W.
0+00 S.W.		367.53	5.34	362.19	356.00	6.19	MH #184
+25			5.76	61.77	56.10	5.67	
+50			4.86	62.67	56.20	6.47	
+75			4.69	62.84	56.30	6.54	
1+			4.50	63.03	56.40	6.63	
+25			4.49	63.04	56.50	6.54	
+50 TP			4.85	62.68	56.60	6.08	
							Grade Sheet #271
+75	5.50	68.18	5.09	63.09	56.70	6.39	
2			5.04	63.14	56.80	6.34	
+25			5.00	63.18	56.90	6.28	
+50			4.76	63.42	57.00	6.42	
+75			4.42	63.76	57.10	6.66	
3+			4.82	63.36	57.20	6.16	
+17			4.98	63.20	57.27	5.93	MH #183

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Smale } 6-23-22
Chisholm }

Sta.	+	H.I.	-	Elev.	Grade	Cut	Staked on 6' offset W.
							MH # 183
0+00		368.18	4.98	63.20	357.27	5.93	
+25			3.69	64.49	57.37	7.12	
+50			4.54	63.64	57.47	6.17	
+75			4.56	63.62	57.57	6.05	
1			3.77	64.41	57.67	6.74	
+25			4.40	63.78	57.77	6.01	
+50 TP			4.66	363.52	57.87	5.65	Grade Sheet # 272
+75	5.63	69.15	5.13	64.02	57.97	6.05	
2			4.97	64.18	58.07	6.11	
~~+50~~ 25			4.92	64.23	58.17	6.06	
~~+75~~ #50			5.21	63.94	58.27	5.67	
+75			5.25	63.90	58.37	5.53	
3			4.83	64.32	58.47	5.85	
+10 25			5.00	64.15	358.51	5.64	MH # 182
BM			3.98	365.17	B.B. 365.11		B.P. - S.W. Stockton at El Cajon S1 - 12

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Smale

Sta.	+	H.I.	-	Elev.	Grade .4%	Cut	Staked on 6' offset rt.
0+00		369.15	5.00	64.15	358.51	5.64	MH #182
+25			4.55	64.60	58.61	5.99	
+50			4.69	64.46	58.71	5.75	
+75			3.89	65.26	58.81	6.45	
1 TP			4.17	64.98	58.91	6.07	
+25	5.75	370.73	5.75	64.98	59.01	5.97	
+50			5.32	65.41	59.11	6.30	
+75			6.10	64.63	59.21	5.42	
2+00			6.07	64.66	59.31	5.35	Grade Sheet #273 -
+25			4.24	66.49	59.41	7.08	
+50			2.95	67.78	59.51	8.27	
+75			4.88	65.85	59.61	6.24	
3+00			5.09	65.64	59.71	5.93	
+25			4.23	66.50	59.81	6.69	
+50			4.54	66.19	59.91	6.28	
+60	TP		4.62	366.11	359.95	6.16	MH #181

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Chisholm
Brown } 6-29-22

	+	H.I.	−	Elev.	Grade -.401	Cut	Staked on 6' offset W.
0+00				366.11	359.95	6.16	MH#181
+25	4.88	370.99	4.52	66.47	60.05	6.42	
+50			5.40	65.59	60.15	5.44	
+75			3.49	67.50	60.25	7.25	
1+00			5.25	65.74	60.35	5.39	
+25			4.85	66.14	60.45	5.69	
+50			4.55	66.44	60.55	5.89	
+75			5.17	65.82	60.65	5.17	Grade Sheet #274
2+00			4.82	66.17	60.75	5.42	
+25			4.59	66.40	60.85	5.55	
+50			4.05	66.94	60.95	5.99	
+75			3.99	67.00	61.05	5.95	
3+00	TP		3.86	367.13	61.15	5.98	
+25	5.19	372.32	4.03	68.29	61.25	6.94	
+50			4.71	67.61	61.35	6.26	
+67			4.57	367.75	361.42	6.33	MH#180
B.M.			6.23	366.09	366.04	B.P.	N.W. Stockton + Olive
B.M.			4.59	367.73	367.69	B.P.	N.W Conklin + Olive

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Chisholm } 6-29-22
Brown

Sta.	+	H.I.	−	Elev.	Grade .399%	Cut	Staked on 6' offset W.
0+00		372.32	4.57	367.75	361.42	6.33	MH#180
+25			4.97	67.35	61.52	5.83	
+50			5.07	67.25	61.62	5.63	
+75			4.90	67.42	61.72	5.70	
1+00			4.25	68.07	61.82	6.25	
+25			4.10	68.22	61.92	6.30	
+50	TP		3.27	369.05	62.02	7.03	
+75	3.53	372.58	4.58	68.00	62.12	5.88	Grade Sheet #275
2+00			4.52	68.06	62.22	5.84	
+25			3.40	69.18	62.32	6.86	
+50			4.58	68.00	62.42	5.58	
+75			4.94	67.64	62.52	5.12	
3+00			3.83	67.75	62.62	5.13	
+31.14			4.93	67.65	362.74	4.91	MH#179

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Chisholm } 6-29-22
Brown }

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Sta.	+	H.I	-	Elev.	Grade .4%	Cut	Staked on 6' offset W.
0+00		372.58	4.93	367.65	362.74 -	4.91	MH #179
+25			3.96	67.62	62.84	4.78	
+50			6.39	66.19	62.94	3.25	
+75			6.26	66.32	63.04	3.28	
1+00	TP		5.53	367.05	63.14	3.91	
+25	7.11	374.16	6.72	67.44	63.24	4.20	
+50			6.85	67.31	63.34	4.97	
+75			5.94	68.22	63.44	4.78	
2+00			5.56	68.60	63.54	5.06	Grade Sheet #276.
+25			5.13	69.13	63.64	5.49	
+50			4.35	69.81	63.74	6.07	
+75			4.69	69.47	63.84	5.63	
3+00			5.11	69.05	63.94	5.11	
+20			4.64	69.52	364.02	5.50	F.T. #25 -
TP			7.11	367.05			
TP	6.21	373.26	4.22	369.04			
B.M.	3.20	372.24	6.16	366.08	366.04		B.P. N.W. Stockton & Olive.
	End of sewer.						

F.T. #25

Central - Conklin alley - MH#T41 - to F.T. 25

Sta.	+	H.I.	-	Elev.	Grade	Cut.	Staked on 6' offset W.

— See Book No. 4 - Page 22 -

MI # 225

MH # 224

MH#223

MH #222

MH#221

MH#220

MH #219

M/# 218

MH #217

Central-Conklin alley - MH# T-127 - to F. T. #26

Smale } 6-7-22
Brown }

Sta.	+	H.I.	−	Elev.	Grade	Cut	Staked on 6' offset W.
BM				335.51	10.42 %	BP-	Klauber + Conklin MH # T-127 - 216
1+75 TP	6.76	342.27	12.30	29.97			
TP	1.55	331.52	12.40	19.12			
0+00	0.14	319.26	11.80	307.46	301.00	6.46	Take grade from W/S MH ring at ℄ E & W. - Take line from 1x2 5' south of MH center on 6' offset W.
-05							
+25			13.06	306.20	303.61	2.69	
+50			12.67	306.59	306.21	0.38	
+75			8.72	310.54	308.82	1.72	
1			2.88	316.38	311.42	4.96	Grade Sheet # 288
TP			0.14	19.12	—	—	
+25	12.20	331.32	7.45	23.87	314.03	9.84	
+50			3.08	28.24	316.63	11.61	
+75 TP			1.34	29.98	319.24	10.74	
2	11.94	341.92	10.90	31.02	321.84	9.18	
+30 30			10.95	30.97	325.00	5.97	MH # 216

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Smale / Brown } 6-7-22

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Sta.	+	H.I.	-	Elev.	Grade 1.87%	Cut	Staked on 6' offset W.
0+00		341.92	10.95	330.97	325.00	5.97	MH #216
+25			10.92	31.00	25.47	5.53	
+50			10.63	31.29	25.94	5.35	
+75			10.14	31.78	26.40	5.38	
1			10.57	31.35	26.87	4.48	Grade Sheet #289
+25			3.24	38.68	27.34	11.34	
+~~60~~ 50			2.84	39.08	27.81	11.27	
+60.5			2.55	39.37	328.00	11.37	MH #215 - Drop -
BM			6.40	335.52	335.51		St. Grade - 339.05

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Smale } 6-7-22
Brown }

Sta.	+	H. F.	-	Elev.	Grade	Cut	Staked on 6' offset W.
					3.75%		
0+00		341.92	2.55	39.37	334.00	5.37	MH#215 Wightman Drop-
+25			3.19	38.73	34.94	3.79	
+50 TP			1.79	40.13	35.88	4.25	
+75	13.01	53.14	11.08	42.06	36.81	5.25	
1			9.52	43.62	37.75	5.87	
+25			8.07	44.07	38.69	5.38	
+50			6.74	46.40	39.63	6.77	Grade Sheet #290
+75			6.23	46.91	40.56	6.35	
2			5.50	47.64	41.50	6.14	
+25			4.85	48.29	42.44	5.85	
+40			4.68	48.46	343.00	5.46	MH#214 in bbk

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Smale } 6-7-22
Brown }

Sta.	+	H.I.	-	Elev.	Grade .053%	Cut	Staked on 6' offset W.
0+00		353.14	4.68	48.46	343.00	5.46	M/# 214 -
+25			4.16	48.98	43.13	5.85	
+50			3.96	49.18	43.27	5.91	
+75			3.66	49.48	43.40	6.08	
1			3.68	49.46	43.53	6.93	
+25 TP			3.29	49.85	43.66	6.19	
+50	7.26	57.11	6.78	50.33	43.80	6.53	
+75			6.54	50.57	43.93	6.64	
2			6.22	50.89	44.06	6.83	Grade Sheet #291
+25			6.16	50.95	44.19	6.76	
+50			5.74	51.37	44.33	7.04	
+75			5.40	51.71	44.46	7.25	
3			4.71	52.40	44.59	7.81	
+25			5.04	52.07	44.72	7.35	
+50			4.32	52.79	44.86	7.93	
+80 ≅ TP			4.35	52.76	345.01 S.B.	7.75	M/# 213 20's of Unive
BM	5.32	58.08	4.03	54.05	354.05		

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Sta.	+	H.I.	-	Elev.	Grade .527	Cut	Staked on 6' offset W-
		358.08	5.32	52.76	345.01	7.75	MH# 213
+20			5.23	52.85	45.12	7.73	
1			4.99	53.09	45.53	7.56	
+25			4.64	53.44	45.66	7.78	
+50			4.57	53.51	45.79	7.72	
+75			4.55	53.53	45.93	7.60	
2 TP			4.26	53.82	46.06	7.76	Grade Sheet #292 -
+25	5.98	59.80	5.74	54.06	46.19	7.87	
+50			5.61	54.18	46.32	7.86	
+75			5.50	54.30	46.45	7.85	
3			5.37	54.43	46.58	7.85	
+25			5.15	54.65	46.72	7.93	
+40			5.14	54.66	46.80	7.86	MH# 212

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346.80

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Sta.	+	H.I.	–	Elev.	Grade .53	Cut	Staked on 6' offset W.
0+00		359.80	5.14	354.66	346.80	7.86	MH# 212 –
+25			4.92	54.88	46.93	7.95	
+50			4.72	55.08	47.07	8.01	
+75			4.40	55.40	47.20	8.20	
1			4.58	55.22	47.33	7.89	
+25			4.36	55.44	47.46	7.98	
+50 TP			4.47	55.33	47.60	7.73	
+75	6.16	61.49	6.06	55.43	47.73	7.70	Grade Sheet #293
2			5.96	55.53	47.86	7.67	
+25			5.90	55.59	47.99	7.60	
+50			5.53	55.96	48.13	7.83	1.80
+75			5.56	55.93	48.26	7.67	1.3 v5
3			5.31	56.18	48.39	7.79	
+25			5.02	56.47	48.52	7.95	MH# 211 –
+40			4.97	56.52	348.60	7.92	8" pipe south –
							6" " north –

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Sta.	+	H.I.	−	Elev.	Grade 1.176%	Cut −	Staked on 6' offset W.			
0+00	6	361.49	4.97	56.52	348.8	7.72	MH # 211			6" pipe N – 8" ✓ S.
+~~25~~ 30			5.47	56.02	49.15	6.87				
+50			5.34	56.15	49.39	6.76				
+75			3.82	57.67	49.68	7.99				
1			3.44	58.05	49.98	8.07				
+25			3.61	57.88	50.27	7.61				
+50 TP			2.94	358.55	50.56	7.99				
+75	6.13	64.68	6.46	58.22	50.86	7.36	Grade Sheet #294			
2			5.85	58.83	51.15	7.68				
+25			5.81	58.87	51.45	7.42				
+50			5.49	59.19	51.74	7.45				
+75			4.85	59.83	52.03	7.80				
3			4.92	59.76	52.33	7.43				
+25			4.62	60.06	52.62	7.44				
+34 33			4.49	60.19	352.73	7.46	MH # 210			

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Sta.	+	H.I.	–	Elev.	Grade	Cut	
					1.173 %		Staked on 6' offset W.
0+00		364.68	4.49	60.19	352.73	7.46	MH # 210
+25			4.35	60.33	53.02	7.31	
+50			3.92	60.76	53.32	7.44	
+75			3.28	61.40	53.61	7.79	
1			3.10	61.58	53.90	7.68	
+25 TP			3.17	61.51	54.20	7.31	
+50	5.61	67.12	5.37	61.75	54.49	7.26	
+75			5.68	61.54	54.78	6.76	Grade Sheet #295-
2			5.41	61.71	55.08	6.63	
+25			4.81	62.31	55.37	6.94	
+50			5.56	61.56	55.63	5.93	
+75			4.69	62.43	55.96	6.47	
3			4.63	62.49	56.25	6.24	
+25			4.56	62.56	56.54	6.02	
SW. +40			4.29	62.83	356.72	6.11	MH #209 (
NE-			4.24				St. Grade – 62.75-
BM-			3.21	63.91			

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Sta.	+	H.I.	-	Elev.	Grade (3.56.72) .415%	Cut -	Staked on 6' offset S. —
0+00 S.W.				362.83	56.70	6.13	MH #209
0+00 N.E.	540	68.23		—	—	—	
+25			5.47	62.76	56.82	5.94	
+50			5.40	62.83	56.93	5.90	Grade Sheet #296
+67± S.W			5.18	63.05	57.02 (357.00)	6.03	MH #208 -
N.E			5.20	63.03			St. Grade - 362.97

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Sta.	+	H.I.	–	Elev.	Grade .3% 56.98	Cut	Staked on 6' offset W.
0+00 S.W		368.23	5.18	363.05	(357.00)	6.07	MH# 208
✓ N.E.			5.20	63.03	—		
+25			5.84	62.39	57.08	5.31	
+50			4.73	63.50	57.15	6.35	
+75			4.69	63.54	57.23	6.31	
1			4.60	63.63	57.30	6.33	
+25			4.20	64.03	57.38	6.65	
+50			4.47	63.76	57.45	6.31	Grade Sheet #297
+75			4.40	63.83	57.53	6.30	
2			4.13	64.10	57.60	6.50	
+25 TP			4.11	64.12	57.68	6.44	
+50	5.61	69.73	4.68	65.05	57.75	7.30	
+75			5.56	64.17	57.83	6.34	
3			5.14	64.59	57.90	6.69	
+07			5.11	64.62	357.92	6.70	MH#207

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Sta.	+	H.I.	-	Elev.	.3% Grade	Cut	Staked on 6' offset W.
0+00		369.73	5.11	364.62	357.92	6.70	MH#207-
+25			4.80	364.93	358.00	6.93	
+50			4.47	65.26	358.07	7.19	
+75			4.41	65.32	358.15	7.17	
1			4.71	65.02	358.22	6.80	
+25			4.75	64.98	358.30	6.68	
+50			4.38	65.35	358.37	6.98	96
+75			4.30	65.43	358.45	6.98	Grade Sheet #298 -
2 TP			4.24	65.49	358.52	6.87	
+25	4.04	69.53	~~4.04~~ 4.07	65.46	358.60	6.86	
+50			3.36	66.17	358.67	7.50	
+75			4.71	64.82	358.75	6.07	
3			4.70	64.83	358.82	6.01	
+20			5.00	64.53	358.88	5.65	MH # 206
BM			5.19	64.34	364.41		S.W. Conklin & El Cajon
✓			4.96	64.57	364.625		

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Smale
Chisholm } 617

Cont'd from Page 51 -

Sta.	+	H.I.	-	Elev.	.3% Grade	Cut	Staked on 6' offset W.
0+00		369.53	5.00	364.53	358.88	5.65	MH # 206 -
+25			4.53	65.00	58.96	6.04	
+50			4.94	65.59	59.03	6.56	
+70 X			4.33	65.20	59.09	6.11	
1			4.60	64.93	59.18	5.75	
+25			4.66	64.87	59.26	5.61	
+50 TP			4.61	64.92	59.33	5.59	
+75	5.05	69.97	5.07	64.90	59.41	5.49	
2			5.01	64.96	59.49	5.47	Grade Sheet #299 -
+25			5.04	64.93	59.56	5.37	
+50			4.96	65.01	59.64	5.37	
+75			4.94	65.03	59.71	5.32	
3			4.89	65.08	59.79	5.29	
+25			4.60	65.37	59.86	5.51	
+50			4.86	65.11	59.93	5.18	
+60			4.80	65.17	359.96	5.21	MH # 205 -

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Sta.	+ From	H.I.	−	Elev.	Grade .3%	Cut	Staked on 6' offset W.
0+00	P-52	369.97	4.80	65.17	359.96	5.21	MH # 205
+25			4.52	65.45	60.04	5.41	
+50			4.67	65.30	60.11	5.19	
+75			4.50	65.47	60.19	5.28	
1 TP			4.45	65.52	60.26	5.26	
+25	5.32	70.84	5.31	65.53	60.34	5.19	
+50			5.25	65.59	60.41	5.18	
+75			5.13	65.71	60.49	5.22	Grade Sheet # 300
2			5.07	65.77	60.56	5.21	
+25			4.89	65.95	60.64	5.31	
+50			4.71	66.13	60.71	5.42	
+75			4.21	66.63	60.79	5.84	
3			4.02	66.82	60.86	5.96	
+25			3.99	66.85	60.94	5.91	
+50			3.62	67.22	61.01	6.21	
+67			3.34	67.50	361.06	6.44	MH # 204

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Sta.	+	H.I.	-	Elev.	Grade .3%	Cut	Staked on 6' offset W.
0+00		370.84	3.34	67.50	361.06	6.44	MH # 204
+25 TP			3.08	367.76	61.14	6.62	
+50	3.91	371.67	3.97	67.70	61.21	6.49	
+75			4.14	67.53	61.29	6.24	
1			3.77	67.90	61.36	6.54	
+25			4.02	67.65	61.44	6.21	
+50			4.16	67.51	61.51	6.00	
+75			4.50	67.17	61.59	5.58	
2			4.89	66.78	61.66	5.12	Grade Sheet #301
+25			5.20	66.47	61.74	4.73	
+50			5.19	66.48	61.81	4.67	
+75			5.42	66.25	61.89	4.36	
3			5.43	66.24	61.95	4.29	
+31 3/ TP			5.44	66.23	362.06	4.17	MH # 203

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Sta	+	H.I.	−	Elev.	Grade .3%	Cut	
0+00	From Page 54			366.23	362.06	4.17	Staked on 6' offset W. MH # 203
+25	4.76	370.99	4.81	66.18	62.14	4.04	
+50			5.00	65.99	62.21	3.78	
+75			5.17	65.82	62.29	3.53	
1			4.98	66.01	62.36	3.65	
+25			4.99	66.00	62.44	3.56	
+50			5.01	65.98	62.51	3.47	
+75			5.13	65.86	62.59	3.27	Grade Sheet # 302 -
2			4.91	66.08	62.66	3.42	
+25			4.53	66.46	62.74	3.72	
+50			4.32	66.67	62.81	3.86	
+75			4.23	66.76	62.89	3.87	
3			3.89	67.10	62.96	4.14	
+20 25			3.89	67.10	363.02	4.08	F.T. # 26
TP.			3.28	367.71			
BM	5.09	72.80	5.22	67.58	S.B. 367.69		B.P. N.W. Conklin at Olive B5-1 P13 -
	End of sewer -						

			379	349.62	
			35341		
			607		
			34734	348.33	
		434	35168		
			375	347.93	

~~MH 242~~

FT 29

Central Ave - MH#126½ T - to MH#241 —

Smale
Chisholm } 6-8-22

Sta.	+	H.I	-	Elev.	Grade 2.21%	Cut	
BM				343.54			Staked on 6' offset W.
TP	0.42	343.96	10.48	33.48			MH#126½ T -
TP	1.38	34.86	7.94	26.92			26.73 (7.05
0+00	6.87	33.79	7.06	26.73	321.60	5.13	
+25			6.64	27.15	22.15	5.00	Pipe in place from Sta. 0+00 to 0+30.
+50			5.99	27.80	22.71	5.09	
+75			5.16	28.63	23.26	5.37	
1			4.73	29.06	23.81	5.25	
+25			4.23	29.56	24.36	5.20	
+50			3.67	30.12	24.92	5.20	Grade Sheet #303
+75			3.26	30.53	25.47	5.06	
2			2.81	30.98	26.02	4.96	
+25			2.24	31.55	26.57	4.98	
+50 TP			1.59	32.20	27.13	4.07	
+75	11.12	43.32	10.48	32.84	27.68	5.16	
3			9.69	33.63	28.23	5.40	
+25			8.97	34.35	28.78	5.57	
+50			7.99	35.33	29.34	5.99	
+75			7.12	36.20	29.89	6.31	
4+07 65 TP			5.94	337.38	330.60	6.78	MH#241 - St. Gr. - 337.18
BM	5.70	348.41	0.61 4.87	342.71 343.54			

Sisson - Central alley - MH #T-126 to F.T. #28

Sta	+	H.I.	-	Elev.	Grade	Cut -	Staked on 6' offset W.
BM				343.54	38.16%		
TP	0.42	343.96	10.48	33.48			
TP	1.38	334.86	7.94	26.92			
TP	3.18	30.10	4.44	25.66			
TP	2.43	28.09	12.62	15.47			
	0.42	15.89	11.72	304.17			
	2.95	307.12					
0 - 05			9.06	298.06			
0 + 00			7.76	299.36	293.20	6.16	MH # T-126 -
+25			5.41	20.48	302.74	7.74	
0+50			4.44	25.66	12.28	13.38	Grade Sheet # 304 -
+65			4.85	25.25	318.00	7.25	MH # 240 — Note 1' drop & 6" C.I.

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St. Grade - ~~33~~ 325.43

12.28
5.72
18.00

25.89
5.41
20.48

24.80
9.54

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Smale / Chisholm } 6-9-22

Sta.	+	H.I.	-	Elev.	Grade	Cut		
					2.813%		Staked on 6' offset W.	
0+00		330.10	4.85	25.25	319.00	6.25	M/H # 240 -	Note 1' drop + 6" C.I. so.
+25			4.24	25.86	19.70	6.16		
+50			4.66	25.44	20.40	5.04		
+75			5.64	24.46	21.11	3.35		
1			5.84	24.26	21.81	2.45		
+25			4.20	25.90	22.52	3.39		
+50			1.97	28.13	23.22	4.91		
+75 TP			0.17	29.93	23.92	6.01		
2	11.55	41.48 41.58	9.28	32.20	24.63	7.67	7.57	Grade Sheet # 305 -
+25			7.93	33.55	25.33	8.22	8.22	
+50			6.60	34.88	26.03	8.95	8.85	
+75			5.77	35.71	26.74	9.07	8.97	
3			4.67	36.81	27.44	9.37	9.37	
+20			4.49	36.99	328.00	9.99	X 8.99 M/H # 239 -	
TP			4.69	36.89				
	10.63	47.52	3.84	43.68				

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Sta.	+	H.I.	–	Elev.	Grade	Cut -	Staked on 6' offset W. -
				36.99	2.8%		
0+00 TP				337.09	328.00	9.09	MH #239 -
		42.16					
+25 -	5.17	342.26	4.26	38.00	28.70	9.30	
+50			3.80	38.46	29.40	9.06	
+75			3.50	38.76	30.10	8.66	
1			3.41	38.85	30.80	8.05	
+25			3.48	38.78	31.50	7.28	
+50			3.66	38.60	32.20	6.40	Grade Sheet # 306 -
+75			4.14	38.12	32.90	5.22	
2			4.46	37.80	33.60	4.20	.09
+25			4.73	37.53	34.30	3.23	
+50			4.50	37.76	35.00	2.76	
+75			3.87	38.39	35.70	2.69	
3			2.27	39.99	36.40	3.59	
+21 17 TP			0.64	341.62	337.00	4.62	MH #238 -

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Sta.	+	H.I.	−	Elev.	Grade .912%	Cut	Staked on 6' offset W.
0+00				341.52	337.00	4.52	MH #238
+25	9.32	50.84	8.42	42.42	37.23	5.19	
+50			8.16	42.68	37.46	5.22	
+75			7.98	42.86	37.68	5.18	
1			7.54	43.30	37.91	5.39	
+25			6.60	44.24	38.14	6.10	
+50			5.76	45.08	38.37	7.71	
+75			5.21	45.63	38.60	7.03	
2			4.56	46.28	38.82	7.46	Grade Sheet #307
+25			3.62	47.22	39.05	8.17	
+50			3.07	47.77	39.28	8.49	
+75			2.46	48.38	39.51	8.87	
3 TP			2.24	48.60	39.74	8.86	
+25	6.74	55.34	6.53	48.81	39.96	8.85	
+40			6.04	49.30	340.10	9.20	MH #237 —

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Smale } 6-13-22
Brown }

Sta.	+	H.I.	-	Elev.	Grade .912%	Cut	Staked on 6' offset W.
0+00		55.34	6.04	49.30	340.10	9.20	MH #237
+25			5.69	49.65	40.33	9.32	
+50			4.79	50.55	40.56	9.99	
+75			5.26	50.08	40.78	9.70	
1			4.80	50.54	41.01	9.53	
+25			5.22	50.12	41.24	8.88	
+50			4.95	50.39	41.47	8.92	
+75			4.54	50.80	41.70	9.10	Grade Sheet #308 -
2			4.91	50.43	41.92	8.51	
+25			5.06	50.28	42.15	8.13	
+50			5.08	50.26	42.38	7.88	
+75 TP			5.03	50.31	42.61	7.70	
3	4.91	55.22	5.17	50.05	42.84	7.21	
+25			4.91	50.31	43.06	7.25	
+39.72			5.39	49.83	343.20	6.63	MH #236

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Smale } 6-13-22
Brown }

Sta.	+	H.I.	−	Elev.	Grade .912	Cut	Staked on 6' offset W.
0+00		355.22	5.39	349.83	343.20	6.63	MH# 236
+20			5.08	50.14	43.38	6.76	
1+00			4.60	50.62	44.11	6.51	
+25			4.50	50.72	44.34	6.38	
+50			3.88	51.34	44.57	6.77	
+75			3.27	51.94	44.79	7.15	
2	7.15	59.09	6.78	52.31	45.02	7.29	
+25			6.20	52.89	45.25	7.64	Grade Sheet #309-
+50			5.85	53.24	45.48	7.76	
+75			5.17	53.92	45.71	8.21	
3			5.16	53.93	45.93	8.00	
+25			4.94	53.15	46.16	6.99	
+39 72			4.63	54.46	346.30	8.16	MH# 235

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1+50			7.75	51.34			

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Sta.	+	H.I.	−	Elev.	Grade .911 %	Cut	Staked on 6' offset W.
0+00	T.P.	359.09	4.63	54.46	346.30	8.16	MH #235
+25	6.18	360.64	5.84	54.80	46.53	8.27	
+50			5.35	55.29	46.76	8.53	
+75			5.19	55.45	46.98	8.47	
1+00			5.04	55.60	47.21	8.39	
+25			4.60	56.04	47.44	8.60	
+50			4.80	55.84	47.67	8.17	
+75			4.58	56.06	47.89	8.17	Grade Sheet #310
2+00			3.90	56.74	48.12	8.62	
+25			4.53	56.11	48.35	7.76	
+50			3.67	56.97	48.58	8.39	
+75			3.87	56.77	48.81	7.96	
3+00	TP		3.69	356.95	49.03	7.92	
+25	5.94	362.89	5.79	57.10	49.26	7.84	
+40 45			5.64	57.25	349.40	7.85	MH #234

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Chisholm } 7-6-22
Brown }

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Sta.	+	H.I	-	Elev.	Grade .935%	Cut	Staked on 6' offset W.
0+00		362.89	5.64	357.25	349.60	7.65	MH#234
+25			6.09	56.80	49.83	6.97	
+50			5.91	56.98	50.07	6.91	
+75			5.21	57.68	50.30	7.38	
1+00			4.75	58.14	50.54	7.60	
+25			4.15	58.74	50.77	7.97	
+50			4.22	58.67	51.00	7.67	
+75			3.79	59.10	51.24	7.86	Grade Sheet #311
2+00			3.18	59.71	51.47	8.24	
+25			2.88	60.01	51.70	8.31	
+50	TP		2.18	360.71	51.94	8.77	
+75	7.31	368.02	6.81	61.21	52.17	9.04	
3+00			6.35	61.67	52.41	9.26	
+25			6.09	61.93	52.64	9.29	
+40			5.98	62.04	352.78	9.26	MH #233

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Sta.	+	H.I.	—	Elev	Grade .934%	Cut	Staked on 6' offset W.
0+00		368.02	5.98	362.04	352.78	9.26	MH#233
+25			5.69	62.33	53.01	9.32	
+50			5.10	62.92	53.25	9.67	
+75			5.31	62.71	53.48	9.23	
1+00			4.94	63.08	53.71	9.37	
+25			4.96	63.06	53.95	9.11	
+50			4.69	63.33	54.18	9.15	
+75			4.40	63.62	54.41	9.21	Grade Sheet # 312
2+00	TP		3.92	364.10	54.65	9.45	
+25	4.25	368.35	4.44	63.91	54.88	9.03	
+50			4.64	63.71	55.12	8.59	
+75			4.24	64.11	55.35	8.76	
3+00			5.10	63.25	55.58	7.67	
S.W. +33 72			4.78	63.57	355.90	7.67	MH # 232
B.M.			4.57	363.78	363.92		B.P. N.W. Central & Orange

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Chisholm
Brown } 7-6-22

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Sta.	+	H.I.	−	Elev.	Grade .4%	Cut	
0+00 TP		368.35	4.78	363.57			
S.W. 0+00	6.68	370.25	6.65	363.60	356.00	7.60	MH #231
+25			6.99	363.26	356.10	7.16	
+50			5.60	364.65	356.20	8.45	
+75			5.27	364.98	356.30	8.68	
1+00			5.59	364.66	356.40	8.26	Grade Sheet #314
+25			4.96	365.29	356.50	8.79	
+50			4.91	365.34	356.60	8.74	
+75			5.02	365.23	356.70	8.53	
2+00			5.26	364.99	356.80	8.19	
+25			5.14	365.11	356.90	8.21	
+50			4.68	365.57	357.00	8.57	
+75	TP.		4.61	365.64	357.10	8.54	
3+00	5.74	371.38	6.14	365.24	357.20	8.04	
+10			5.90	365.48	357.24	8.24	MH #230

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Sta.	+	H.I	-	Elev.	Grade .4%	Cut	
0+00		371.38	5.90	365.48	357.24	8.24	MH # 230
+25			5.44	365.94	357.34	8.60	
+50			5.93	365.45	357.44	8.01	
+75			5.04	366.34	357.54	8.80	
1+00			5.13	366.25	357.64	8.61	
+25			4.94	366.44	357.74	8.70	
+50			4.46	366.92	357.84	9.08	Grade Sheet # 315
+75			4.96	366.42	357.94	8.48	
2+00			4.92	366.46	358.04	8.42	
+25			4.75	366.63	358.14	8.49	
+50			5.48	365.90	358.24	7.66	
+75	TP		5.12	366.26	358.34	7.92	
3+00	4.09	370.35	4.22	366.13	358.44	7.69	
+17			4.50	365.85	358.51	7.34	MH # 229
B.M.			5.87	364.48	364.625	B.P.	S.W. El Cajon & Central

Cont'd on Page 70

Chisholm } 9-6-22
Brown }

Cont'd from Page 69.

Sta.	+	H.I.	−	Elev.	Grade -4%	Cut	
0+00	4.[illegible]	370.35	4.50	365.85	358.51	7.34	MH#229.
0+25	4.39	370.24	5.08	365.16	358.61	6.55	
+50			5.15	365.09	358.71	6.38	
+70			4.23	366.01	358.81	7.20	
1+00			4.37	365.87	358.91	6.96	
+25			4.52	365.72	359.01	6.71	
+50			4.94	365.30	359.11	6.19	Grade Sheet #316
+75			4.75	365.49	359.21	6.28	
2+00			4.76	365.48	359.31	6.17	
+25			4.84	365.40	359.41	5.99	
+50			4.80	365.44	359.51	5.93	
+75			4.65	365.59	359.61	5.98	
3+00 TP			4.70	365.54	359.71	5.83	
+25	6.19	371.73	6.01	365.72	359.81	5.91	
+50			6.18	365.55	359.91	5.64	
+60			6.04	365.69	359.95	5.74	MH#228

Cont'd on Page 71

Cont'd from Page 70

Chisholm } 7-6-22
Brown }

Sta.	+	H.I.	−	Elev.	Grade 1.4%	Cut	
0+00		371.73	6.04	365.69	359.95	5.74	MH#228
+25			5.61	366.12	360.05	6.07	
+50			5.32	366.41	360.15	6.26	
+75			5.06	366.67	360.25	6.42	
1+00			4.64	367.09	360.35	6.74	
+25			4.35	367.38	360.45	6.93	
+50			4.04	367.69	360.55	7.14	Grade Sheet # 317
+75			3.75	367.98	360.65	7.33	
2+00			3.46	368.27	360.75	7.52	
+25			3.45	368.28	360.85	7.43	
+50 TP			3.32	368.41	360.95	7.46	
+75	5.55	373.96	5.63	368.33	361.05	7.28	
3+00			5.40	368.56	361.15	7.41	
+25			5.46	368.50	361.25	7.25	
+50			5.20	368.76	361.35	7.41	
+66.8			4.78	369.18	361.42	7.76	MH # 227
B.M.			4.79	369.17	369.33	B.P.	N.W. Olive & Central

Cont'd on Page 72

Cont'd from Page 71

	+	H.I.	−	Elev.	.4%				
0+00		373.96	4.78	369.18	361.42	7.76	MH#227		
+25			5.30	368.66	361.52	7.14			
+50			5.16	368.80	361.62	7.18			
+75			4.91	369.05	361.72	7.33			
1+00			4.24	369.72	361.82	7.90			
+25			2.77	371.19	361.92	9.27	Grade Sheet #318		
+50 TP			2.89	371.07	362.02	9.05			
+75	5.10	376.17	5.20	370.97	362.12	8.85			
2+00			4.57	371.60	362.22	9.38			
+25			5.10	371.07	362.32	8.75			
+50			4.86	371.31	362.42	8.89			
+75			4.88	371.29	362.52	8.77			
3+00			4.85	371.32	362.62	8.70			
+25			5.15	371.02	362.72	8.30	MH#226		

Cont'd on Page 73

Cont'd from Page 72

Sta	+	H.I.	−	Elev.	Grade .399	Cut				
0+00		376.17	5.15	371.02	362.72	8.30	MH#226			
+25			5.10	371.07	362.82	8.25				
+50			5.15	371.02	362.92	8.10				
+75			5.24	370.93	363.02	7.91				
1+00			5.19	370.98	363.12	7.86				
+25 TP			5.21	370.96	363.22	7.74				
+50	3.66	374.62	3.95	370.67	363.32	7.35		Grade Sheet #319		
+75			4.02	370.60	363.42	7.18				
2+00			4.36	370.26	363.52	6.74				
+25			4.68	369.94	363.62	6.32				
+50			5.03	369.59	363.72	5.87				
+75			4.90	369.72	363.82	5.90				
3+00			5.16	369.46	363.92	5.54				
+26 I			5.29	369.33	364.02	5.31	F.T. #28			
TP			3.61	371.01						
B.M.	4.29	375.30	6.13	369.17	369.33	B.P.	N.W. Olive & Central			

Cont'd from Page 67

Sta.	+	H.I.	−	Elev.	Grade	Cut.	
S.W. 0 + 00	From Page 67	368.35	4.78	363.57	·78 355.90	7.67	MH # 232
S.W. + 12 82	6.68	370.25	6.65	363.60	356.00	7.60	MH # 231
		Street Grade		363.70			

Grade Sheet # 313

2x2 at center & at P.I of 6' offsets So. & W. & at P.I of 6' offsets No. & E. Take grade from hub at So. W. P.I.

2x2 at center & at P.I of 6' offsets So. & W. & at P.I of 6' offset No. & E. Take grade from hub at So. W. P.I.

BM				300.05	
0+00	4.30	305.75	2.20		
+25			3.79		
+50			4.07		
+75			5.38		
1			7.40		
TP			12.16	293.59	
+25	1.46	95.05	9.62		
+50			7.64		
+75TP			0.44	94.61	
2	12.69	307.30	8.27		
+25			7.09		
+50			5.52		
+80			5.25		
			5.85	1.45	

#17

				348.16		
	5.23	53.39	3.67	9.72		
				349.62		
	3.93	53.55	6.23	47.32		
	~~5.23~~		~~3.67~~			
	4.04	51.36			1.618	
0+00			3.44	347.92	340.00	7.92
+20			5.06	346.30	40.32	5.98
1			4.56	346.80	41.62	5.18
+25			1.20	350.16	42.02	8.14
+50	7.48	57.64	6.61	351.03	42.43	8.60
+75			6.01	51.63	42.83	8.80
2+00			5.64	52.00	43.24	8.76
+25			5.04	52.60	43.64	8.96
+50			4.81	52.83	44.05	8.78
+75			4.46	53.18	44.45	8.73
3+00			3.75	53.89	44.85	9.04
+25			3.25	54.39	45.26	9.13
+40			3.25	354.39	345.50	8.89

3/17/23

Sta.	Levels on Sewer of Alley Conklin to				
B.M. 354.04		359.45		5.41	
	Elev			Grade	Cut
0+00	354.37	5.08	on stake 8' N of Center		
0+25	354.13	5.32	" "	350.25	3.88
0+50	354.42	5.03	" "	" "	3.98
0+75	354.24	5.21	" "	" "	3.41
1+00	354.38	5.07	" "	" "	3.36
1+11	354.12	5.33	" "	351.11	3.01
1+50	354.56	4.89	on inside edge of sidewalk		

Levels on Bottom of Ditch

	Elev		Grade
0+11	350.2	9.2	350.1
0+25	350.3	9.1	350.25
0+50	350.5	8.9	350.5
0+75	350.9	8.5	350.75
1+00	351.3	8.1	351.0
1+11	351.5	7.9	351.1 Bottom of Pipe from Bldg

Ditch 2' south of Center of Alley 100' Long from a point 39' West of the W.P.L. of Conklin to a point 139' West of the W.P.L. of Conklin

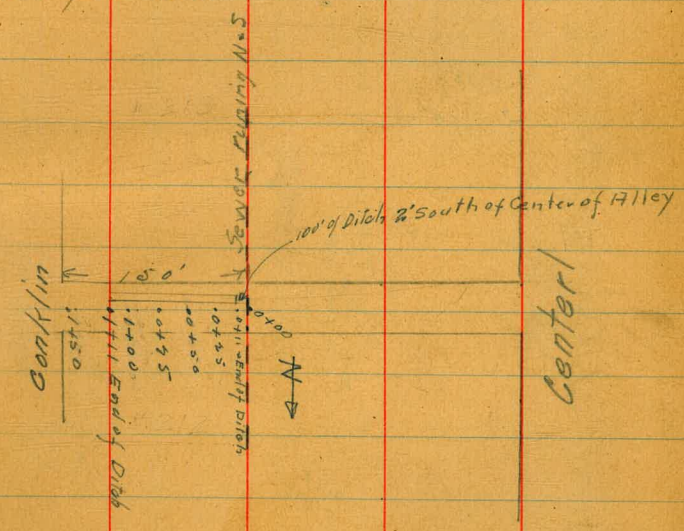
J.E. Ellis
L.H. Sierert 77

150' West of to sewer Univ to Ama

B.M. N.W. Corner Conklin + Univ. Ave

Center of N&S Alley

West P.L. of Conklin



5.77
.03
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4.71
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4.43

365) 5000 (.137
365
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1095
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5.058825
.0342
5.024485
.0685
4.955555
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124
62

5.07
.124
4.946
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5.07
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4.760

248
124

506
475
.31 (.248
.125)
250
600
500
1000
1000

3320 - Orange
Cunningham

Calculation of Earthwork.

Width	HEIGHT 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.02	.04	.06	.07	.09	.11	.13	.15	.17	.18	.20	.22	.24	.26	.28
2	.04	.07	.11	.15	.18	.22	.26	.30	.33	.37	.41	.44	.48	.52	.56
3	.06	.11	.17	.22	.28	.33	.39	.44	.50	.56	.61	.67	.72	.78	.83
4	.07	.15	.22	.30	.37	.44	.52	.59	.67	.74	.81	.89	.96	1.04	1.11
5	.09	.19	.28	.37	.46	.56	.65	.74	.83	.93	1.02	1.11	1.20	1.30	1.39
6	.11	.22	.33	.44	.56	.67	.78	.89	1.00	1.11	1.22	1.33	1.44	1.55	1.67
7	.13	.26	.39	.52	.65	.78	.91	1.04	1.16	1.30	1.42	1.55	1.68	1.81	1.94
8	.15	.30	.44	.59	.74	.89	1.04	1.19	1.33	1.48	1.63	1.78	1.92	2.08	2.22
9	.17	.33	.50	.67	.83	1.00	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33	2.50
10	.18	.37	.56	.74	.93	1.11	1.30	1.48	1.67	1.85	2.04	2.22	2.41	2.59	2.78
11	.20	.41	.61	.82	1.02	1.22	1.43	1.63	1.83	2.04	2.24	2.44	2.65	2.85	3.06
12	.22	.44	.67	.89	1.11	1.33	1.56	1.78	2.00	2.22	2.44	2.67	2.89	3.11	3.33
13	.24	.48	.72	.96	1.20	1.44	1.68	1.92	2.16	2.41	2.65	2.89	3.13	3.37	3.61
14	.26	.52	.78	1.04	1.30	1.55	1.81	2.08	2.33	2.59	2.85	3.11	3.37	3.63	3.89
15	.28	.56	.83	1.11	1.39	1.67	1.94	2.22	2.50	2.78	3.06	3.33	3.61	3.89	4.17
16	.30	.59	.89	1.18	1.48	1.78	2.07	2.37	2.67	2.96	3.26	3.56	3.85	4.15	4.44
17	.31	.63	.94	1.26	1.57	1.89	2.20	2.52	2.83	3.15	3.46	3.78	4.09	4.41	4.72
18	.33	.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.33	4.67	5.00
19	.35	.70	1.06	1.41	1.76	2.11	2.46	2.82	3.17	3.52	3.87	4.22	4.57	4.92	5.28
20	.37	.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70	4.07	4.44	4.81	5.18	5.56
21	.39	.78	1.17	1.55	1.94	2.33	2.72	3.11	3.50	3.89	4.28	4.67	5.06	5.44	5.33
22	.41	.81	1.22	1.63	2.04	2.44	2.85	3.26	3.67	4.07	4.48	4.89	5.30	5.70	6.11
23	.43	.85	1.28	1.70	2.13	2.56	2.98	3.41	3.83	4.26	4.68	5.11	5.54	5.96	6.39
24	.44	.89	1.33	1.78	2.22	2.67	3.11	3.56	4.00	4.44	4.89	5.33	5.78	6.22	6.67
25	.46	.92	1.39	1.85	2.31	2.78	3.24	3.70	4.17	4.63	5.09	5.56	6.02	6.48	6.94
26	.48	.96	1.44	1.92	2.41	2.89	3.37	3.85	4.33	4.82	5.30	5.78	6.26	6.74	7.24
27	.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
28	.52	1.04	1.55	2.07	2.59	3.11	3.63	4.15	4.67	5.18	5.70	6.22	6.74	7.26	7.78
29	.54	1.07	1.61	2.15	2.68	3.22	3.76	4.30	4.83	5.37	5.91	6.44	6.98	7.52	8.06
30	.56	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00	5.55	6.11	6.67	7.22	7.78	8.33
31	.57	1.15	1.72	2.30	2.87	3.44	4.02	4.59	5.17	5.74	6.32	6.89	7.46	8.04	8.61
32	.59	1.18	1.78	2.37	2.96	3.56	4.15	4.74	5.33	5.92	6.52	7.11	7.70	8.30	8.89
33	.61	1.22	1.83	2.44	3.05	3.67	4.28	4.89	5.50	6.11	6.72	7.33	7.94	8.55	9.17
34	.63	1.26	1.89	2.52	3.15	3.78	4.40	5.04	5.67	6.29	6.93	7.56	8.18	8.81	9.44
35	.65	1.30	1.94	2.59	3.24	3.89	4.53	5.18	5.83	6.48	7.13	7.78	8.42	9.08	9.72
36	.67	1.33	2.00	2.67	3.33	4.00	4.66	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00
37	.68	1.37	2.06	2.74	3.42	4.11	4.79	5.48	6.17	6.85	7.54	8.22	8.91	9.59	10.28
38	.70	1.41	2.11	2.82	3.52	4.22	4.92	5.63	6.33	7.03	7.74	8.44	9.15	9.85	10.56
39	.72	1.44	2.17	2.89	3.61	4.33	5.05	5.78	6.50	7.22	7.95	8.67	9.39	10.11	10.83
40	.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.67	7.41	8.15	8.89	9.63	10.37	11.11

Table gives cu. yds. in 1 ft. of a triangle of given width and height. Corrections for tenths of width are one tenth the values found under each height considering the widths from 1 to 9 as tenths and similarly the corrections for tenths of height are one tenth the figures opposite width considering the heights from 1 to 9 as tenths. Thus if w =16.2 and h =5.3, cu. yds. =1.48+.028+.089 =1.597 cu. yds. or practically 160 cu. yds. per 100 ft. If w exceeds 40 ft., use one half and multiply result by 2, if both w and h are large use one half of each and multiply result by 4. Any cross-section may be divided into triangles by the following rule. To the triangle of the sum of the outside cuts (or fills) =h, and ½ the roadbed =w, add the triangles formed by taking the distance out to each break in turn (=w's) by the difference between the cuts (or fills) on each side of it (=h's) always subtracting the outer from the inner.

5 Ct

1081

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

3.60000

Roadway 16 feet wide. Side Slopes 1 on 1½.

For Single Track Embankment.

H.	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	25.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9+(20—16)÷2 or 2 ft. added to 41.9 =43.9. For slopes of 1 on 1 see inside of front cover.

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