

B.M. LEVELS

2

F.B. 724

**724**

Showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes.	Lks.	Minutes.	Lks.	Minutes.	Lks.
1	2½	21	49	41	95½
2	4½	22	51½	42	98
3	7	23	53½	43	100½
4	9½	24	56	44	102½
5	11½	25	58½	45	105
6	14	26	60½	46	107½
7	16½	27	63	47	109½
8	18½	28	65½	48	112
9	21	29	67½	49	114½
10	23½	30	70	50	116½
11	25½	31	72½	51	119
12	28	32	74½	52	121½
13	30½	33	77	53	123½
14	32½	34	79½	54	126
15	35	35	81½	55	128½
16	37½	36	84	56	130½
17	39½	37	86½	57	133
18	42	38	88½	58	135½
19	44½	39	91	59	137½
20	47	40	94	60	140

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Table for Running on Slopes.

In the following table the first column shows the angle, the second, the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

Angle.	Cor. in links	Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.
°		°		°		°	
4	0-24	11	1-88	18	5-14	25	10-54
5	0-38	12	2-24	19	5-76	26	11-26
6	0-55	13	2-63	20	6-42	27	12-24
7	0-76	14	3-06	21	7-11	28	13-37
8	0-98	15	3-53	22	7-85	29	14-34
9	1-24	16	4-02	23	8-64	30	15-47
10	1-55	17	4-56	24	9-47	35	22-07

300  
18  
2200  
3000  
6000

76.85  
200  
74.11

76.85  
200  
73.95

J.M. Hamilton

75.004  
- 6.582  
9.1.886  
- 2.415-1  
79.135  
+ 5.292  
84.427  
- 2.410  
82.017

20<sup>th</sup> St.

1

A. 66.166 S.W. Cor. Canal Spk in post which

9. 39.26 N.E. tacr. in plug 10' NE of <sup>NE</sup> corner

21<sup>st</sup> St.

A. 90.437 S.E. Cor Canal Spk. from Cr.

9. 45.196 N.E. Cor. Spk in tel pole

22<sup>nd</sup> St.

A. 146.074 from pin found <sup>near S.W.</sup> within <sup>hall</sup>

9. 47.627 S.W. Cor. Spk. in N.E. Cr. School house

9. 39.76.15 23<sup>rd</sup> St.

A. 164.905 from pin <sup>found to the</sup> found <sup>in</sup> plug <sup>see</sup> within

24<sup>th</sup> St.

N. 50.637 N.E. Cr. Spk in tel pole

A. 176.659 S.E. Cr. Spk in plug

Franklin  
Hacworth  
New York

25<sup>th</sup> St.

Elev.	B.M.	Ad.	25 <sup>th</sup> St.	199.048	S.V.
B.	195.022		S.E.		
C.	188.389		S.E.		
D.	174.778		"		
E.	187.943		S.W.		
F.	185.807		N.W.		
G.	174.448		N.E.		
H.	159.871		N.W.		
I.	127.433		S.E.	Stump in cor from	
J.	129.693		S.W.	S.W. cor	
J.	97.866		S.W.	abt 6' S.W. cor	
K.	75.515		"	Stump in 2 <sup>nd</sup> S.W. end of block	
L.	67.345		N.W.		
M.	62.45		"		
N.	55.303		"		

The initial bench from which  
all the elevations are taken  
is the north corner of the panel  
base of the N.W. column of  
main entrance Hotel New  
Building.

S.W. cor 3<sup>rd</sup> and B. streets  
Elevation of initial B.M. 40.000  
City datum

Sta.	+	H.I.	-	Elev.	B.M.
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Δ	4.113	59.416		55.303	55.303
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Δ	7.986	60.538	6.964	52.552	
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Δ	6.342	64.043	2.937	57.701	
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			2.559	61.484	
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			6.420	57.623	B.M.
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Δ	5.631	67.115	2.559	61.484	
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			3.831	63.284	
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Δ	5.676	69.970			
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			4.807	64.163	B.M.
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Δ	5.578	70.919	3.629	65.341	
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Δ	6.442	73.460	3.901	67.018	
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Δ	4.071	73.297	4.234	69.226	B.M.
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			3.243	70.054	
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25<sup>th</sup> + 7<sup>th</sup> N. 1<sup>st</sup> N. Co. Iron Ore (Continued here)

B.M. N.W. Cor. of 26<sup>th</sup> and N. St.

B.M. Iron Ore on plug (Blk. Co.) N.W. 27<sup>th</sup> + N. St.

B.M. Iron Ore 4' N.E. of N.E. Co. 29<sup>th</sup> + 7<sup>th</sup> St. (Blk. 74)

Sta.	+	H.I.	-	Elev.	B.M.
Δ	6.615	76.669		70.054	
			4.433	72.236	B.M.
Δ	7.849	80.095	4.423	72.246	
Δ	7.969	84.792	3.172	76.923	
			6.706	78.186	B.M.
Δ	6.133	88.545	2.480	82.412	
Δ	7.756	93.077	3.224	85.321	B.M.
Δ	7.551	98.602	2.026	91.051	
Δ	1.199	94.361	5.440	93.162	B.M.
Δ	0.872	89.576	5.657	88.704	
			8.394	81.182	B.M.

B.M. iron spike in ground about 260' N. of  
P.H. abt. 5' E. of east line of 28<sup>th</sup> St.

B.M. iron spike in ground 10' S.E. of the S.E. cor.  
of 28<sup>th</sup> St.

B.M. spike in tel. pole N.E. corner Hamilton  
and 28<sup>th</sup> St.

B.M. iron spike in ground abt. 35' S.E. of  
S.E. cor. Grant Ave and 28<sup>th</sup> St.

B.M. spike in tel. pole S.W. Co. Hamilton  
and 28<sup>th</sup> St. (near Pop. curve)

Sta.	+	H.I.	-	Elev.	B.M.
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				81.182	
Δ	2.722	83.904	6.146	77.758	
Δ	2.294	80.052	5.534	74.618	
Δ	2.441	76.969	4.533	72.426	B.M.
Δ	3.122	73.436	6.645	70.314	
			8.687	64.749	B.M.
Δ	2.624	67.373	5.328	62.045	
Δ	6.029	63.074	5.699	57.375	B.M.
			5.826	57.248	
Δ	1.740	58.988	6.839	52.650	
Δ	3.860	56.510	5.422	57.088	B.M.
Δ	3.107	54.195	6.839	47.357	
	2.500	50.157	7.981	42.176	B.M.
Δ			7.391	42.766	
Δ	0.926	43.692	11.475	32.217	
	0.803	33.020	5.575	27.445	B.M.
Δ	4.264	28.566	10.718	22.302	
Δ	7.606	17.645	10.527	16.039	
			4.865	12.790	B.M.

B.M. Spike in tel. pole N.W. Cor. Union Ave.  
and 28<sup>th</sup> St.

B.M. Iron spike 6" from S.W. Cor. of  
Olive and 29<sup>th</sup> St.

B.M. S.E. Cor. of National Ave. and 28<sup>th</sup> St. x  
Iron pin in ground

B.M. Spike in tel. pole S.W. Cor. Grand Ave.  
and 28<sup>th</sup> St.

B.M. Iron pin 6" from S.W. Cor. of Boston  
and 28<sup>th</sup> St.

B.M. Iron pin 10' S.W. of S.W. Cor. Superior x  
and 28<sup>th</sup> St.

B.M. Iron tel. pole at W. of 28<sup>th</sup> St. on Cotton

Sta	+	H.T.	-	Elev	
		17.645	10.375	7.260	
Δ	1.775	9.035	9.363	-0.318	B.M.
				64.163	B.M.
Δ	2.959	67.122	1.154	68.968	
			3.045	64.077	B.M.
Δ	5.986	71.924	0.711	71.213	
Δ	8.989	80.202	0.543	79.659	
			5.247	74.954	B.M.
Δ	10.156	89.915	0.752	89.063	
Δ	8.167	97.230	1.193	96.037	
Δ	8.062	104.099	2.093	102.006	B.M.
Δ	4.391	106.397	9.732	96.665	
Δ	1.430	99.090	8.286	89.809	
Δ	4.938	94.747	6.293	88.454	
Δ	1.371	89.825	9.831	79.994	
Δ	7.584	87.578	2.109	85.369	
			1.309	86.269	B.M.

B.M. Iron driven into first cup on W. side  
of Substraps wharf

B.M. Iron stake in plug (Blk. Cr) N.W. 27<sup>th</sup> + N. 30<sup>th</sup>

B.M. Iron spike in plug 6" S.E. of stake marked  
Lot 3, abt. 39' S. of Blk. Cr 316. Oct. 26<sup>th</sup>  
S. of N. St. Ry.

B.M. Iron spike in fence post S.W. Cor. of  
Land 25<sup>th</sup> St.

B.M. Iron spike in fence post S.W. Cor. of  
Grant Ave. and 25<sup>th</sup> St.

B.M. Iron spike in fence post 50' E. from S.E. Cor.  
of Land 25<sup>th</sup> St.



Sta.	+	H.I.	-	Elv.	
Δ	7.475	92.544	5.929	87.015	
Δ	2.246	89.261	7.450	81.861	
			6.049	83.212	B.M.
Δ	0.591	82.452	8.089	74.363	
Δ	1.024	75.397	8.162	67.225	
			5.446	69.941	B.M.
Δ	3.604	70.829	8.162	67.225	
			6.495	64.334	B.M.
Δ	1.886	63.230	9.474	61.345	
Δ	3.031	59.738	7.523	55.707	
			6.673	52.065	B.M.
Δ	0.783	51.667	7.854	50.884	
Δ	0.998	44.121	85.44	43.123	
Δ	1.538	39.793	5.976	39.245	B.M.
Δ	0.797	31.720	9.860	30.923	
			6.013	25.707	B.M.
1.809	25.794	7.735	23.985		
		5.243	20.551		B.M.

B.M. Iron spike in fence post S.W. cor of J. and 25<sup>th</sup> Sts.

B.M. Iron spike in fence post S.W. cor of Mainway and 25<sup>th</sup> Sts.

B.M. Top of water table on brick building N.W. Cor. Logan Ave and 25<sup>th</sup> St.

B.M. Spike in tile pipe S.E. cor. M. & 25<sup>th</sup> Sts.

B.M. Iron spike in plug S.E. Cor. N. & 25<sup>th</sup> Sts.

B.M. Iron spike in plug S.W. Cor. O. & 25<sup>th</sup> Sts.

B.M. Iron spike in plug N.E. Cor. P. & 25<sup>th</sup> Sts.

Sta.	+	H. I.	—	Elev.
		25.794		
Δ	4.800	25.853	4.741	21.053
Δ	4.697	25.710	4.840	21.013
			3.977	21.733 B.M.
Δ	3.010	25.039	3.681	22.029
Δ	3.305	24.515	3.829	21.210
Δ	5.710	24.175	5.450	19.065
			4.499	19.676 B.M.
Δ	4.875	25.061	3.989	20.186
Δ	5.491	26.111	4.431	20.630
Δ	5.010	26.192	4.929	21.182
			4.367	21.825 B.M.
Δ	6.257	27.344	5.105	21.087
Δ	3.050	26.409	3.985	23.359
Δ	2.128	23.493	5.044	21.365
Δ	0.710	13.488	10.715	12.778
Δ	0.850	6.083	8.255	5.233
			5.109	0.974 B.M.
Δ	4.027	7.856	2.254	3.829

B.M. from there in plug East Cox. River on and  
26<sup>th</sup> St. (B.M. cor. 79)

B.M. from there in plug East cor. of P+27<sup>th</sup> St.  
(B.M. cor. 78)

B.M. around iron pipe <sup>(Bent)</sup> in tel. pole on 26<sup>th</sup> +  
St. alt. alt 190' S. of Tofura St.

B.M. around pipe (best) in N.W. wing pub. B.B. +  
sully alt. 500' West of Robinsons wharf

Sta	+	H.I	-	Elev	
		7.856			
Δ	3.530	6.269	5.117	2.739	
Δ	4.655	6.507	4.417	1.852	
			6.817	-0.310	B.M.
D. St. 9, <u>Zepuka Avenue</u> Between 25 <sup>th</sup> & 27 <sup>th</sup> Sts.					
			25.707		
Δ	6.270	31.977	3.684	28.293	
Δ	3.875	32.168	5.413	26.755	
Δ	6.170	32.925	2.900	30.025	B.M.
Δ			3.186	29.739	
Δ	7.560	33.299	3.808	29.491	
Δ	4.667	34.158	7.327	26.831	
Δ	4.827	31.158	3.855	27.303	B.M.
Δ	5.791	33.384	3.565	27.593	
Δ	5.500	33.787	5.097	28.287	
Δ	6.505	34.233	6.059	27.728	
Δ	2.822	31.520	5.535	28.698	

B.M. Spire driven into first cap on west  
side of Robinsons wharf  
note Levelled from 25<sup>th</sup> and N. Sts. down 25<sup>th</sup> St.  
and from 25<sup>th</sup> and N down 27<sup>th</sup> and D  
to Robinsons wharf Ref. 1.018

B.M. Iron spike in plug NE Cor. D. 9, 26<sup>th</sup> St. x

B.M. Iron spire in plug NE Cor. D. 9, 27<sup>th</sup> St. x

Sta.	+	H.I.	—	Elev.	
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31.520

7021 27.722 10.819 20.701 B.M.

Δ 11.370 37.462 0.630 27.092

Δ 2.624 35.572 5.574 32.948

8.116 27.456

N. Pt. of Boston Ave. between 25<sup>th</sup> and 28<sup>th</sup> Sts.

3.327 45.503 7.663 42.176

Δ 1.697 39.438 5.191 37.840

Δ 6.200 40.457 5.273 34.257

5.104 35.184 B.M.

Δ 2.800 38.153 5.602 35.353

Δ 4.154 36.705 6.555 32.551

Δ 4.021 34.171 4.309 30.150

2.949 29.862 B.M.

Δ 4.176 35.398 3.772 31.222

Δ 5.061 36.687 2.165 31.626

1.701 34.522 B.M.

Δ 3.083 38.069 1.711 34.986

4.509 40.867 1.761 34.358

B.M. from pin in ground 6" S. of alt. Cor. 20 +  
and and Hubble add.Checked on B.M. 10' S.W. of S.W. Cor. Topinka on  
28<sup>th</sup> St. hief. 0.011B.M. from spike in plug 2' W. of S.E. Cor. of  
Boston Ave. on 27<sup>th</sup> St.B.M. from spike in plug about N.E. Cor. of  
Boston Ave. and 26<sup>th</sup> St.B.M. from spike in plug S.E. Cor. 27<sup>th</sup> & N. Ave. X

Sta.	+	H.I.	—	Elv.	
		40.867			
Δ	4.623	43.729	1.761	39.116	
			3.705	40.024	B.M.
Δ	3.889	41.727	5.891	37.838	
Δ	5.217	42.463	4.481	37.246	
	4.611	44.218	2.856	39.607	
			5.990		

National Ave. 9<sup>th</sup> M. St. Belvoir 25<sup>th</sup> 28<sup>th</sup> St.

Δ	5.032	57.097	4.810	52.065	
Δ	3.427	55.714	2.895	52.287	
Δ	5.966	58.788	4.258	52.819	
				54.527	B.M.
Δ	3.497	57.372	4.910	53.878	
Δ	4.659	54.268	7.763	49.609	
	4.527	55.380	3.466	50.803	
			5.426	49.904	B.M.
			5.902	49.428	B.M.
Δ	5.827	56.319	4.838	50.492	
Δ	5.188	57.814	3.693	52.626	

B.M. from spike in place N.E. Cor. N. 2<sup>nd</sup> 26<sup>th</sup> St.

Choroad on B.M. S.E. Cor. N. 2<sup>nd</sup> 25<sup>th</sup> St. hgt. 0.017

B.M. from spike in tel. pole S.E. Cor. 26<sup>th</sup> 9<sup>th</sup> M. St.

B.M. from spike in tel. pole S.E. Cor. 27<sup>th</sup> 9<sup>th</sup> M. St.

B.M. from spike in tel. pole S.E. Cor. 26<sup>th</sup> St. 9<sup>th</sup> National

Sta.	+	H.I.	-	Elev.	
		57.814			
			3.102	52.712	B.M.
Δ	2.170	55.484	4.500	53.314	
Δ	6.334	59.667	2.150	53.334	
Δ	5.676	64.825	0.519	59.149	
			7.435	57.390	
	Olive Ave. & L. between 28 <sup>th</sup> & 25 <sup>th</sup> Sts.				
				64.749	
Δ	2.073	66.822	6.280	60.542	
Δ	5.909	66.451	3.936	62.515	
Δ	4.059	66.574	5.536	61.038	
Δ			4.176	62.397	B.M.
Δ	3.146	65.544	4.504	61.040	
Δ	5.021	66.061	4.072	61.989	
Δ	3.730	66.679	3.112	62.949	B.M.
Δ	3.902	66.043	4.538	62.141	B.M.
Δ	7.047	67.794	5.296	60.747	
	6.943	69.891	4.846	62.948	B.M.

B.M. from pin in tl. pole S.E. Cor. N. Ave. & 27<sup>th</sup> St.

Checked in B.M. S.E. Cor. National Ave. & 28<sup>th</sup> St.  
Diff. 0.015

B.M. from spike in fence post N.E. Cor. 27<sup>th</sup> St. and +  
Olive Ave.

B.M. from spike in fence post N.E. Cor. 26<sup>th</sup> St. +  
and Olive Ave.

B.M. from spike in blk. of N.W. Cor. 26<sup>th</sup> St. & +  
L. Ave. (Blk. Cor. 174)

B.M. from spike in fence N.E. Cor. 26<sup>th</sup> St. & +  
L. Ave. (About 400' W. of Blk. Cor. 174)

Sta.	+	H.I.	-	Elev.
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69.891

Δ	4.290	68.650	5.581	64.360
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Δ	2.161	68.826	1.985	66.665
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			4.479	64.347
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Named 2<sup>nd</sup> Union Avenue, bet. 25<sup>th</sup> & 28<sup>th</sup> Sts.

Δ	6.673	76.614	2.830	69.941
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Δ	3.837	77.648	5.772	73.811
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Δ	4.012	75.788	2.926	71.876
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			3.470	72.962 B.M.
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Δ	3.735	76.153	4.606	72.418
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Δ	3.050	74.597	4.503	71.547
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Δ	2.583	72.677	5.205	70.094
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			5.322	67.472 B.M.
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Δ	5.820	73.175	7.702	67.385
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			7.667	65.473 B.M.
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Δ	7.636	73.144	4.115	65.508
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Δ	7.706	76.735	4.300	69.029
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				72.435
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Checked on Brick Building N.W. Cor. of  
Legan Ave. and 25<sup>th</sup> St. Ref. 0.013

B.M. from spike in plug N.W. Cor. K. Ave. and 26<sup>th</sup> St.

B.M. from spike in plug S.W. Cor. of Union  
and K. Avenue and 27<sup>th</sup> St.

B.M. from spike in Cor. of base S.E. Cor. of  
Union Ave. and 27<sup>th</sup> St.

Checked on B.M. in tel. pole N.W. Cor. of  
Union Ave. and 28<sup>th</sup> St. Ref. 0.009

Sta	+	H.I.	-	Elev.
I. Ave. from 28 <sup>th</sup> to 25 <sup>th</sup> St.				
Δ	6992	79.418	3.806	72.426
			3.698	75.612 B.M.
Δ	4226	79.946	3.704	75.720
Δ	4468	80.710	6.592	76.242
			4.441	74.118 B.M.
Δ	7908	84.177	2.145	76.269
Δ	6465	88.497	1.833	82.032
Δ	5787	92.451	5.397	86.664
			5.485	87.054 B.M.
Δ	5512	92.478	4.496	76.966
Δ	3304	91.286	5.031	87.982
				86.255

B.M. from spike in tel. pole abt. 20' S.  
of N.W. Cor. I. and 28<sup>th</sup> St. +

B.M. from spike in plug S.E. Cor. I Ave +  
and 27<sup>th</sup> St.

B.M. from spike in plug S.E. Cor. of +  
I Ave. and 26<sup>th</sup> St.

Checked on B.M. 5'0" E. from S.E. Cor. of -  
I and 25<sup>th</sup> St. dif. 0.014



Sta. + H.I. — Elev.

From 25<sup>th</sup> St. to Union Ave. on J. Ave.

Δ	5.351	99.563	5.597	83.212	
Δ	3.899	96.865	8.299	82.966	
Δ	4.710	83.276	2.134	78.566	
Δ	3.814	84.956	5.737	81.142	B.M.
Δ	3.069	82.288	4.833	79.219	
Δ	2.785	80.240	5.258	77.455	
			6.381	74.992	B.M.
Δ	3.107	76.966	7.890	73.859	
Δ	2.334	71.410	5.926	69.076	
				65.484	

From 28<sup>th</sup> St. to 28<sup>th</sup> St. on H. Ave.

Δ	5.643	96.825	2.553	81.182	
Δ	6.792	91.064	2.787	84.272	
			3.827	88.277	B.M.
Δ	5.015	92.252	2.431	87.237	
Δ	4.358	94.179	0.856	89.821	
Δ	5.696	99.989		93.293	

B.M. from spike in plug N.W. Cor. of  
J. Ave. and 26<sup>th</sup> St. +

B.M. from spike in plug N.W. Cor. of  
J. Ave. and 27<sup>th</sup> St. +

Checked on B.M. in Basin S.E. Cor. of  
Union Ave. and 27<sup>th</sup> St. diff 0.011

B.M. from spike in Tel. pole alt. 13' N.W.  
of N.W. Cor. of H. Ave. and 27<sup>th</sup> St. —

Sta.	+	H.I.	-	Elev.	
		98.989	3.619	95.370	B.M.
A	6.021	101.467	3.543	95.446	
A	1.420	99.834	3.053	99.414	
A	2.417	93.189	9.062	90.772	
A	6.304	93.750	5.743	87.446	B.M.
A	4.145	88.526	9.369	94.381	
			2.269	86.257	

From 25<sup>th</sup> St. to 28<sup>th</sup> St. on Grand Ave.

		2.795	104.801	96.25	102.556	
		2.609	97.785	4.399	95.176	
		3.492	96.884	3.909	93.386	
				4.116	92.975	B.M.
		3.109	95.877	6.851	92.768	
		4.923	93.949	1.658	89.026	
		5.699	97.990	4.733	92.291	
				4.838	93.257	B.M.
					93.152	

B.M. from nail in N.W. cor. of water table  
in church tower 5.3 from door found  
S.E. Cor. H. Ave. and 26<sup>th</sup> St. +

B.M. from stone in tel. pole S.W. Cor. +  
H. Ave. and 28<sup>th</sup> St.  
Checked on B.M. from stone in fence  
post 5.0' E of S.E. Cor. of I Ave. and 26<sup>th</sup> St.  
Dist. 0.012

B.M. from stone in plug S.W. Cor. Grand Ave.  
and 26<sup>th</sup> St. +

B.M. from stone in fence post N.W. Cor. O  
Grand Ave. and 28<sup>th</sup> St. O

Checked on B.M. from stone in ground at 35' S.E.  
of S.E. Cor. G. Ave. and 28<sup>th</sup> St. Dist. 0.010

Sta.	+	H.I.	-	Elev
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From 25<sup>th</sup> to 28<sup>th</sup> St. on Fremont Ave.

Δ	4.792	79.746	3.988	74.954
Δ	5.558	81.313	1.281	75.758
Δ	7.345	87.377	4.260	80.032
Δ	5.490	88.607	1.401	83.117
			5.514	87.206 B.M.
Δ	6.221	89.314	3.991	93.093
				85.323

B.M. Iron spike in wall plate of cottage  
6' from S.W. Cor. Fremont Ave. & 26<sup>th</sup> St.  
+  
Checked on B.M. iron spike in tile pipe  
N.E. Cor. Fremont Ave. & 28<sup>th</sup> St. Diff 0.002

Sta. + H.I. — Elev.

Commenced at B.M. S.W. Cor. A. and 25<sup>th</sup> Sts.  
 And leveled around 30<sup>th</sup> St. to B.M. at  
 N.E. Cor. 28<sup>th</sup> and N. Sts.

A	9.496	208.539	0.631	199.043	
A	9.031	216.939	11.197	207.908	
A	2.909	208.657	25.62	205.742	
	7.931	214.020	4.086	206.089	
			1.117	204.565	B.M.
2.910	215.913	11.759	212.903		
		4.534	211.279		B.M.
0.542	204.596	11.759	204.054		
1.705	194.602	11.699	192.897		
11.730	205.746	0.586	194.016		
8.122	213.331	0.537	205.209		
		5.650	207.671		B.M.
0.557	208.489	5.399	207.932		
7.826	206.275	10.040	198.449		B.M.
10.535	216.294	0.516	205.759		
11.801	227.507	0.587	215.706		
		1.470	226.027		B.M.

B.M. from plug N.E. Cor. of 26<sup>th</sup> and A. Sts. +

B.M. from plug N.W. Cor. of 27<sup>th</sup> and A. Sts. +

B.M. from pin in ground 8" N.E. of S.E. Cor.  
 foot of 28<sup>th</sup> and A. Sts. +

B.M. from pin in ground 5" S.E. of N.W. Cor.  
 foot of 29<sup>th</sup> and A. Sts. +

B.M. from pin in ground 6" N.W. of S.W. Cor.  
 foot of 30<sup>th</sup> and A. Sts. +

Sta.	+	H.I.	-	Elev.	
		227.507			
Δ	7.875	224.616	4.776	222.731	
			9.356	215.260	B.M.
Δ	0.588	213.390	11.814	212.802	
Δ	0.762	202.836	11.316	202.074	
Δ	1.066	194.487	9.415	193.421	
			5.430	189.057	B.M.
Δ	8.796	201.018	2.265	192.222	
			6.935	194.083	B.M.
Δ	0.708	192.216	9.510	191.507	
			4.325	187.891	B.M.
Δ	0.822	183.196	9.842	172.374	
Δ	0.739	172.270	11.665	171.531	B.M.
Δ	1.619	166.141	7.748	164.522	
Δ	1.571	158.686	9.026	157.115	B.M.
Δ	5.989	163.756	0.919	157.767	
Δ	1.708	154.190	11.274	152.482	
			4.687	149.503	B.M.
Δ	2.722	145.294	11.618	142.572	
		1.940	135.754	11.480	133.814
		2.608	126.754	11.608	124.146

B.M. from pin in stake 9" N. of S.W. Cor. post of  
B. and 30<sup>th</sup> Sts. +

B.M. from pin in ground 6" N.E. of S.W.  
Cor. post C. and 30<sup>th</sup> Sts. +

B.M. from pin in ground 6" N. of S.W. Cor.  
post D. and 30<sup>th</sup> Sts. +

B.M. from pin in ground 5" E. of N.W. Cor.  
post E. and 30<sup>th</sup> Sts. - +

B.M. from pin in ground 5" S. of N.W. Cor. post  
F. and 30<sup>th</sup> Sts. +

B.M. from pin in ground 3" S.E. of N.W.  
Cor. post G. and 30<sup>th</sup> Sts. +

B.M. from stone in plug S.E. Cor. of  
H. and 30<sup>th</sup> Sts. +

Sta.	+	H.I.	—	Elev.	
		126.754			
Δ	1458	118.257	9.958	116.796	
Δ	3491	110.176	11.566	106.685	
Δ	2786	101.562	11.400	98.776	
			4.827	96.735	B.M.
Δ	1947	93.107	10.402	91.160	
Δ	0636	92.289	11.484	81.623	
			7.255	75.004	B.M.
Δ	3636	79.485	7.410	74.849	
Δ	3525	76.424	5.686	72.799	
			4.177	72.247	B.M.
Δ	5053	79.161	3.516	73.108	
			5.217	72.944	B.M.
Δ	5431	79.653	4.969	73.192	
			3.623	75.000	B.M.
Δ	4789	79.300	4.112	74.511	
Δ	2980	75.990	6.290	73.010	
			4.205	71.785	B.M.
Δ	3921	75.033	4.978	71.112	
	404	073.247	5.826	69.207	

B.M. Iron spike in witness stake N.E. cor.  
of I. and 30<sup>th</sup> Sts. +

B.M. Iron pin in ground 6" E. of N.E. Cor.  
of J and 30<sup>th</sup> Sts. +

B.M. Iron spike in plug 6" E. of Pueblo Cor.  
Between J. and L. on 30<sup>th</sup> St. +

B.M. Iron pin in ground 6" N. of S.E.  
Cor. of L. and 30<sup>th</sup> St. +

B.M. Iron spike in stake about S.W. cor.  
of M. and 30<sup>th</sup> Sts. +

B.M. Iron spike in S.W. cor. part of  
house midway between 29<sup>th</sup> and 30<sup>th</sup> Sts.  
about 60' N of N. St. R.R. +

Sta.	+	H.I.	-	Elev.	
		73.247			
6.175	74.211	5.211	68.036		
		5.000	69.211		
M. St. from 25 <sup>th</sup> to 30 <sup>th</sup>					
Δ	6.174	68.624	3.877	62.450	
Δ	4.658	69.405	5.364	64.747	
Δ	3.488	67.479	5.150	64.041	B.M.
			3.846	62.329	B.M.
Δ	7.132	70.765	4.113	63.633	
			1.640	66.652	B.M.
Δ	7.045	76.170	2.859	69.125	
Δ	5.432	79.743	7.247	73.311	
			4.350	71.496	B.M.
Δ	4.223	79.616	7.915	74.393	
			7.491	70.701	B.M.
Δ	6.137	77.262	3.711	71.125	
Δ	5.458	79.009	3.999	73.551	
				75.010	

Checked on B.M. 4" N.E. of N.E. Cor. of  
28<sup>th</sup> and N Sts. (B.C.N. 74) Diff 0.015

B.M. from spike in stave 6" W. of N.E. Cor. of  
26<sup>th</sup> and M. Sts. +

B.M. from spike in S.W. Cor. of house on N. side  
of M. St. About 260' E. of 26<sup>th</sup> St. -

B.M. from spike in plug 1' W. of S.W. Cor. of  
27<sup>th</sup> and M. Sts. +

B.M. from spike in plug 14" E. of S.E. Cor. of  
28<sup>th</sup> and M. Sts. (B.C.N. 74) +

B.M. from spike in plug 14" W. of S.W. Cor.  
of 29<sup>th</sup> and M. Sts. (B.C.N. 74) +

Checked on B.M. S.W. Cor. M. St. 30<sup>th</sup> Diff 0.010

Sta.	+	H.I.	-	Elev.
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From 25<sup>th</sup> to 30<sup>th</sup> St. on L. St.

Δ	5.892	73.237	1.772	67.345	
Δ	6.646	78.111	6.927	71.465	
Δ	4.911	76.098	2.276	71.184	B.M.
Δ	6.574	80.393	2.627	73.819	
				77.766	B.M.
Δ	4.827	79.747	5.773	74.920	B.M.
Δ	4.817	81.107	3.457	76.290	
Δ	5.250	83.740	2.617	78.490	B.M.
Δ	2.616	91.097	5.259	78.481	
			4.716	76.381	B.M.
Δ	3.176	76.210	8.063	73.034	
			1.455	74.755	
			3.271	72.939	

B.M. Taken in plng S.W. Cor. 26<sup>th</sup> L. St. +

B.M. from top of fence post alt. 180' 4"  
W. from S.W. Cor. 27<sup>th</sup> S. side of L. St.

B.M. from spike in plng 15' S.W. of S.W. Cor.  
27<sup>th</sup> L. St.

B.M. from spike in plng 15" S.E. of S.E. Cor.  
28<sup>th</sup> L. St. (B.M. 73) +

B.M. from spike in plng 13" W. of N.W. Cor.  
29<sup>th</sup> L. (B.M. 72) +

B.M. from top of fence about 200'  
W. of 30<sup>th</sup> St. on S. side of L. 0

chord on B.M. S.E. Cor. L. 30<sup>th</sup> St. 617.0005



Sta. + H.I. — Elev.

From 25<sup>th</sup> to 30<sup>th</sup> St. on K. St.

Δ	3.771	76.018	3.740	72.247	
Δ	6.961	79.239	1.733	72.278	
Δ	3.700	86.206	0.543	77.506	B.M.
Δ	2.814	88.477	7.521	85.663	
Δ	9.478	90.434	0.677	80.956	B.M.
Δ	9.615	99.372	1.795	89.757	
Δ	11.256	108.833	2.085	97.577	
Δ	3.577	110.405	0.377	106.928	
			4.259	110.028	B.M.
Δ	3.730	109.876	10.667	106.146	
Δ	0.513	99.722	10.736	99.209	
Δ	9.157	99.143	2.028	88.986	
			11.573	96.115	B.M.
Δ	1.821	88.391	8.714	86.570	
Δ	2.916	82.593	7.101	79.677	
				75.492	

B.M. Iron spike in plug 16" S.W. of S.W. Cor.  
29<sup>th</sup> & 2<sup>nd</sup> K. St. (Blk. 72) +

B.M. Nail in plug S.E. Cor. 28<sup>th</sup> & 2<sup>nd</sup> K. St. (Blk. 72)

B.M. Spike in fence post N.W. Cor. 27<sup>th</sup> & 2<sup>nd</sup> K. St. +

B.M. Spike in fence post N.E. Cor. 26<sup>th</sup> & 2<sup>nd</sup> K. St. +

Checked on B.M. S.W. Cor. of  
25<sup>th</sup> & 2<sup>nd</sup> K. St. diff. 0.013

Sta.	+	H.I.	-	Obs.
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From 25<sup>th</sup> to 30<sup>th</sup> in J. St.

A	0.975	106.367	8.498	105.392
A	2.260	106.129	0.538	97.969
B	11.710	117.301	0.530	105.591
A	11.492	129.853	0.533	116.771
B	11.866	139.686	1.291	127.820
			0.541	138.395 B.M.
A	11.653	150.922	0.793	139.145
A	11.713	161.748	0.730	150.035
B	11.644	172.662	11.342	161.018
A	12.80	162.700	11.461	161.320
A	0.516	151.753	2.956	151.239
			9.476	148.799 B.M.
A	2.030	144.309	11.520	142.279
A	0.653	132.442	11.642	132.789
A	0.652	122.462	11.329	121.800
A	1.129	112.252	11.547	111.123
A	0.760	101.565	10.413	100.705
A	4.588	95.740	9.268	91.152
			86.472	B.M.

B.M. shown in pling 13" N.E. of S.E. cor of  
J. and 26<sup>th</sup> Sts.

B.M. Copper tower in pling 12" W of N.W.  
Cor. J. and 27<sup>th</sup> Sts.

B.M. Lark in pling N.W. Cor. J. and 28<sup>th</sup> Sts.

Sta.	+	H.I.	—	Elev.
		95.740		
Δ	5.916	96.871	4.755	90.955
Δ	3.841	93.471	7.241	89.630
			11.048	82.423 B.M.
Δ	1.933	84.926	10.478	82.993
			9.910	75.016

from J. to A. On 26<sup>th</sup> St.

Δ	9.154	147.549	2.113	138.395
Δ	9.912	153.348	4.456	148.436
			0.960	150.992 B.M.
Δ	8.491	162.879	0.822	154.398
			0.785	162.057 B.M.
Δ	10.006	172.000	1.105	161.994
Δ	9.377	180.272	1.097	170.995
Δ	6.296	185.481	4.950	179.185 B.M.
			3.363	170.631 B.M.
Δ	6.834	188.952		192.118

B.M. from stake in fence post S.E. Cor. of  
J. 29<sup>th</sup> St. +  
Chickadee on B.M. N.E. Cor. of J. 29<sup>th</sup> 30<sup>th</sup> St.  
Elev. 1012 1

B.M. from stake in plug 15" N.E. of N.E.  
Cor. I. 26<sup>th</sup> St. +

B.M. Copper tack in plug 9" N.E. of S.E.  
Cor. H. 26<sup>th</sup> St. +

B.M. Copper tack in plug 13" N.E. of N.E.  
Cor. G. 26<sup>th</sup> St. +

B.M. Copper tack in plug 16" N.W. of  
N.W. Cor. F. 26<sup>th</sup> St. +

Sta.	+	H.I.	-	Elev.
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197962

A	11.357	197.558	2.745	196.207
			6.118	191.440 B.M.
			2.232	195.326 B.M.
Δ	11.015	202.258	6.315	191.243
			3.566	198.692 B.M.
Δ	3.914	200.616	5.556	196.702
			1.911	199.705 B.M.
Δ	10.150	204.501	6.265	194.351
Δ	5.952	208.618	1.835	202.666
			4.068	204.550

From A to J. on 27<sup>th</sup> St.

Δ	2.068	213.347	10.047	211.279
Δ	1.230	204.530	3.575	203.300 B.M.
Δ	3.587	204.542	4.811	200.955 B.M.
Δ	0.995	200.726	11.512	199.731 B.M.
Δ	1.940	191.154		189.214 B.M.

B.M. top of plug W.E. Cor. E. 2<sup>nd</sup> 26<sup>th</sup> St. +  
 B.M. top " " S.W. " D. 2<sup>nd</sup> 26<sup>th</sup> " +

B.M. top of plug S.W. Cor. C. 2<sup>nd</sup> 26<sup>th</sup> St. +

B.M. Copper tack on top of fence post  
 N.W. Cor. B. 2<sup>nd</sup> 26<sup>th</sup> St. +

Checked on B.M. N.E. Cor. A. 2<sup>nd</sup> 26<sup>th</sup> St. 0.015

B.M. Copper tack in plug 23" N.E. of N.E.  
 Cor. B. 2<sup>nd</sup> 27<sup>th</sup> St. +

B.M. On top of plug N.W. Cor. C. 2<sup>nd</sup> 27<sup>th</sup> St. +

B.M. Copper tack in plug 21" N.W. of N.W. Cor.  
 of D. 2<sup>nd</sup> 27<sup>th</sup> St. +

B.M. Two copper tacks in plug 16" S.E. of S.E.  
 Cor. E. 2<sup>nd</sup> 27<sup>th</sup> St. +

Sta.	+	H.I.	-	Elev.	
		191.154			
Δ	1.443	181.653	10.944	180.210	
			3.779	177.874	B.M.
Δ	1.986	172.208	11.434	170.219	
Δ	0.529	161.265	11.469	160.736	
Δ	0.539	150.076	11.728	149.537	
Δ	2.671	141.333	11.414	139.662	B.M.
Δ	5.256	135.217	11.372	129.961	
Δ	11.011	145.352	0.876	134.341	
			7.920	137.432	B.M.
Δ	9.244	154.088	0.508	144.844	
Δ	5.176	158.385	0.879	153.209	
			9.565	148.820	

From A. to J On 27<sup>th</sup> St.

Δ	0.721	208.402	7.286	207.691	
Δ	0.760	201.876	11.187	201.116	B.M.
Δ	0.654	191.343	11.537	190.689	
Δ	0.803	180.609	11.577	179.806	B.M.
Δ	0.673	169.705		169.032	

B.M. Copper tack in plug about N.E. Cor. +  
of F. 2<sup>nd</sup> 27<sup>th</sup> Sts.

note could not find corner to locate B.M.  
on E. St.

B.M. Copper tack in stone about N.E. Cor.  
of H. 2<sup>nd</sup> 27<sup>th</sup> Sts.

150' N. 2<sup>nd</sup> 25' E of N.E. Cor. H + 27<sup>th</sup> Sts.

B.M. Copper tack in plug 15" N.W. of N.W.  
Cor. I. 2<sup>nd</sup> 27<sup>th</sup> Sts.

Checked on B.M. N.W. Cor. J 2<sup>nd</sup> 27<sup>th</sup> Sts. Ref. 0.021

B.M. Copper tack in plug 8" N.E. of N.E.  
Cor. part of B. 2<sup>nd</sup> 28<sup>th</sup> Sts.

B.M. Copper tack in plug 14" S.E. of S.E.  
Cor. part C. 2<sup>nd</sup> 28<sup>th</sup> Sts.

Sta.	+	H.I.	—	Elev.	
		169.705	7.917	161.888	B.M.
Δ	4.028	170.453	3.280	166.425	
			7.279	163.174	B.M.
Δ	2.494	161.480	11.467	158.986	
Δ	0.872	150.807	11.545	149.935	
			8.716	147.091	B.M.
A	1.911	140.961	11.757	139.050	
L	3.145	132.615	11.491	129.470	
Δ	2.606	126.184	9.087	123.528	B.M.
Δ	1.768	116.628	11.274	114.860	
Δ	4.337	109.547	11.418	105.210	B.M.
Δ	1.598	99.291	11.854	97.693	B.M.
Δ	6.180	95.870	9.601	89.690	
			9.373	86.497	

B.M. Copper tack in plug 9" E. of N.E. Cr.  
post D.<sup>2nd</sup> 28<sup>th</sup> Sts. +

B.M. Copper tack in stave 6" E. of N.E. Cr.  
stave E.<sup>2nd</sup> 28<sup>th</sup> Sts. +

B.M. Copper tack in stave 6" N.E. of N.E. Cr.  
post F.<sup>2nd</sup> 28<sup>th</sup> Sts. +

B.M. Copper tack in stave 8" S.E. of S.E.  
Cr. G.<sup>2nd</sup> 28<sup>th</sup> Sts. +

B.M. Copper tack in plug 8" N.W. of N.W.  
Cr. H.<sup>2nd</sup> 28<sup>th</sup> Sts. +

B.M. Copper tack in plug 8" S.W. of S.W.  
Cr. I.<sup>2nd</sup> 28<sup>th</sup> Sts. +

Checked on B.M. N.W. Cr. J.<sup>2nd</sup> 28<sup>th</sup> Sts. 0025

Sta.	+	H.I.	—	Elev.	
From Sta. A. to 29 <sup>th</sup> St.					
Δ	11.784	94.207	0.649	82.423	
Δ	11.345	104.903	0.528	93.558	
Δ	10.243	114.619	0.786	104.375	
Δ	7.782	121.664	1.036	113.892	
Δ	9.274	129.902	1.324	120.628	
Δ	10.108	138.586	6.661	128.578	
Δ	1.971	133.896	3.298	131.925	
Δ	0.834	131.432	8.912	130.598	B.M.
Δ	2.479	124.999	11.068	122.520	
Δ	9.513	123.444	9.423	113.931	
Δ	3.810	117.831	9.042	114.021	
Δ	8.408	117.197	0.530	108.789	B.M.
Δ	10.660	127.327	0.945	116.667	
Δ	10.594	136.976	0.579	126.382	B.M.
Δ	11.623	149.020	5.903	136.397	
			0.553	142.117	B.M.
Δ	11.686	159.153	0.611	147.467	
Δ	11.451	169.993	7.473	159.542	
				162.520	B.M.

B.M. Copper tack in plumb about N.W. Cor. of  
I. and 29<sup>th</sup> St. +

S.E.  
B.M. Copper tack in plumb about S.W. Cor.  
of H. and 29<sup>th</sup> St. +

B.M. Copper tack in plumb 12" N.W. of N.W.  
Cor. part of and 29<sup>th</sup> St. +

B.M. Copper tack in plumb 5" N.E. of N.E. Cor.  
part of F. and 29<sup>th</sup> St. +

B.M. Copper tack in plumb 10" S.E. of S.E. Cor.  
E. and 29<sup>th</sup> St. +

Sta.	+	H.I.	—	Elv.
		167.993		
A	11.740	179.668	2.065	167.928
A	10.908	179.950	0.626	179.042
A	6.719	195.619	1.050	197.900
			4.990	190.629 B.M.
A	1.325	185.755	11.479	194.130
A	2.746	176.689	11.512	173.943
			5.431	171.258 B.M.
A	11.504	187.035	1.158	175.531
			8.231	178.804 B.M.
A	11.740	197.885	1.190	185.945
	9.882	206.267	1.200	196.385
			7.832	198.435

Entered all B.M.s up to

B.M. Copper taon in plug 5" N.W. of N.W. Cor.  
post D. and 29<sup>th</sup> Sts. +

B.M. Copper taon in plug 5" S.E. of S.E. Cor.  
post O. and 29<sup>th</sup> Sts. +

B.M. Copper taon in plug 6" S.E. of S.E.  
Cor. Star B. and 29<sup>th</sup> Sts. +

Checked on B.M. N.W. Cor 29<sup>th</sup> and A.  
Sts. diff. 0.014

was in B.M. book in office



Sta.	+	H.I.	—	Elev.	
From A. to N. St. on 20 <sup>th</sup>					
Δ	10.163	76.329	0.508	66.166	
Δ	11.655	87.476	9.538	75.821	
			0.731	77.938	B.M.
Δ	11.817	99.562	0.878	86.745	
Δ	7.855	105.539	6.386	97.684	
			9.119	99.153	B.M.
Δ	2.869	99.289	6.643	96.420	
			5.167	92.646	B.M.
Δ	5.661	99.783	3.169	94.122	
			5.401	94.382	B.M.
Δ	8.074	104.688	3.169	96.614	
			3.677	101.011	B.M.
Δ	2.936	99.421	8.203	96.485	
Δ	1.427	96.239	4.609	94.812	B.M.
Δ	1.551	88.917	8.873	87.366	
			2.850	86.067	B.M.
	5.009	87.926	6.000	82.917	
	7.144	91.779	3.291	84.635	

B.M. Iron spike on top of Bulkhead post  
S.W. Cor. B. and 20<sup>th</sup> Sts.

B.M. Copper tack in stave about 10' S.E.  
of S.E. Cor. C. and 20<sup>th</sup> Sts.

B.M. Copper tack in stave about 8' S.E.  
of S.E. Cor. D. and 20<sup>th</sup> Sts.

B.M. Iron spike driven into fence post  
N.W. Cor. E. and 20<sup>th</sup> Sts.

B.M. Round headed copper tack on top  
of fence rail N.W. Cor. F. and 20<sup>th</sup> Sts.

B.M. Copper tack in stave about 6'  
S.W. of S.W. Cor. G. and 20<sup>th</sup> Sts.

B.M. On east bridge of hydrant S.W.  
Cor. H. and 20<sup>th</sup> Sts.

Sta.	+	H.I.	-	Elev.	
		91.779	3.388	88.391	B.M.
A	4.226	92.407	3.598	88.181	
			4.101	88.306	B.M.
A	2.268	86.318	8.357	84.050	
			0.758	85.563	B.M.
A	1.312	79.000	8.630	77.688	
			3.006	75.994	B.M.
A	1.196	68.721	11.475	67.525	
A	1.310	61.933	8.098	60.623	B.M.
A	0.700	51.056	11.577	50.356	
			11.793	39.263	
From A. to N. on 21 <sup>st</sup> St. St.					
A	11.503	101.940	0.507	91.437	
A	11.579	113.012	0.680	101.433	
A	10.870	123.252	5.712	112.392	
			5.466	117.540	B.M.
A	0.696	118.482	5.936	117.786	
			5.775	112.546	B.M.
A	4.089	116.796	7.395	112.701	
			109.401	B.M.	

B.M. Iron spike in fence post N.E. <sup>1/4</sup> Cor. I. <sup>20<sup>th</sup></sup> Sts.

B.M. Iron spike in fence post S.W. <sup>1/4</sup> Cor. J. <sup>20<sup>th</sup></sup> Sts.

B.M. Ball on top of fence cor. post <sup>1/4</sup> S.W. Cor. K. <sup>20<sup>th</sup></sup> Sts.

B.M. Copper tack in stave about 6' <sup>1/4</sup> N.W. of N.W. Cor. L. <sup>20<sup>th</sup></sup> Sts.

B.M. Iron spike in Cor. of fence post <sup>1/4</sup> N.W. Cor. M. <sup>20<sup>th</sup></sup> Sts.

Chroma on B.M. N.E. Cor. of N. <sup>20<sup>th</sup></sup> <sup>1/4</sup> <sup>1000</sup>

B.M. Copper tack in plug about N.W. Cor. <sup>1/4</sup> B. <sup>21<sup>st</sup></sup> Sts. 2' S.W. of <sup>1/4</sup> <sup>1000</sup>

B.M. Copper tack in stave 2' S.W. of <sup>1/4</sup> S.W. Cor. C. <sup>21<sup>st</sup></sup> Sts.

B.M. Copper tack in plug about 9' <sup>1/4</sup> S.W. of <sup>1/4</sup> <sup>1000</sup> Cor. D. <sup>21<sup>st</sup></sup> Sts.

All poles up to here entered in office record book

Sta.	+	H.I.	—	Elev.	
		116.796	4.227		
A	8.298	120.867	0.976	112.569	
			2.660	119.891	B.M.
A	5.851	124.058	4.732	118.207	
			8.183	119.326	B.M.
A	2.229	118.114	4.264	115.875	
			9.479	113.850	B.M.
A	1.396	110.031	10.112	108.635	
A	4.360	104.279	8.160	99.919	B.M.
A	5.587	101.706	4.185	96.119	
			2.967	97.571	B.M.
A	6.091	104.830	6.584	98.739	
			8.738	99.246	B.M.
A	2.492	98.584	4.099	96.092	
			11.642	94.485	B.M.
A	0.990	87.932	8.408	86.942	
			11.726	79.524	B.M.
B	0.775	76.982	11.487	76.207	
	0.515	66.040	9.678	65.525	
			11.704	56.362	B.M.
A	0.910	55.246	10.042	54.336	
				45.204	

B.M. from stone in fence post N.E. Cor<sup>+</sup>  
of E. Quad 21<sup>st</sup> Sls.

B.M. Copper tack in water table S.E. Cor<sup>+</sup>  
of house 9" from Cor. N.Y.V. Cor. F. 9<sup>th</sup> 21<sup>st</sup> Sls.

B.M. Copper tack on top of fence post  
S.V. Cor. G. Quad 21<sup>st</sup> Sls.

B.M. from stone in tel. pole S.V. Cor. H. 9<sup>th</sup> 21<sup>st</sup> Sls.

B.M. from stone in tel. pole S.E. Cor. I. 9<sup>th</sup> 21<sup>st</sup> Sls.

B.M. from stone in Guy post S.V. Cor. J. 9<sup>th</sup> 21<sup>st</sup> Sls.

B.M. from stone in tel. pole S.E. Cor. K. 9<sup>th</sup> 21<sup>st</sup> Sls.

B.M. from stone in tel. pole N.E. Cor. L. 9<sup>th</sup> 21<sup>st</sup> Sls.

B.M. from stone in tel. pole N.E. Cor. M. 9<sup>th</sup> 21<sup>st</sup> Sls.  
Chorus on B.M. on tel. pole on N. side 0008

Sta. + H.I. — Elev.

from A. to N. on 22<sup>nd</sup> Sts

Δ	5.564	151.638	6.185	146.074	
Δ	5.473	150.926	7.516	145.453	
			7.536	143.420	B.M.
Δ	4.593	147.973	2.233	143.390	
			2.845	145.740	B.M.
A	3.438	147.566	6.112	145.128	
			7.657	142.454	B.M.
Δ	2.506	143.415	2.962	140.909	
			3.970	140.453	B.M.
Δ	5.710	144.855	6.642	139.445	
			7.894	138.213	B.M.
Δ	2.296	129.267	10.672	136.971	
Δ	3.841	132.436	1.603	128.595	
			9.231	130.833	B.M.
Δ	0.600	123.805	5.600	123.205	
A	0.749	118.954	9.914	118.205	B.M.
Δ	2.171	111.211	3.055	109.040	
			6.961	108.156	B.M.
Δ	3.638	117.888		104.250	

top of fence in bluff 2' S.W. of S.W. Cor. J  
B. Aug 22<sup>nd</sup> St.

top of fence in bluff about N.E. Cor. of  
C. Aug 22<sup>nd</sup> Sts. +

from stone on top of fence post S.W. Cor.  
D. Aug 22<sup>nd</sup> St. +

top of fence on top of fence post  
S.W. Cor. E. Aug 22<sup>nd</sup> St. +

top of fence in bluff about 4' S.W. of  
S.W. Cor. F. Aug 22<sup>nd</sup> St. +

top of fence on top of ball of fence post  
S.E. Cor. G. Aug 22<sup>nd</sup> Sts. +

top of fence on top of fence post S.E. Cor.  
H. Aug 22<sup>nd</sup> St. +

from stone in fence post N.E. Cor. I. Aug 22<sup>nd</sup> St. +

Sta.	+	H.I.	-	Elev.	
		117.979	3.920	103.968	B.M.
Δ	0.901	104.778	3.911	103.977	
			1.322	113.456	B.M.
Δ	0.575	94.353	11.000	93.778	
Δ	1.244	84.031	11.566	82.787	
Δ	0.792	74.177	10.647	73.384	B.M.
Δ	0.913	63.337	11.643	62.524	
			7.525	55.802	B.M.
Δ	1.626	57.144	7.822	53.515	
			9.521	47.620	
From 22 <sup>nd</sup> to 25 <sup>th</sup> on M. St.					
Δ	8.369	64.171	3.644	55.802	
			4.828	60.527	B.M.
Δ	3.491	62.834	2.280	59.343	
Δ	6.579	67.133	4.690	60.554	
				62.443	

Iron spike in S.E. Cor. of barn N.W. Cor. of  
J<sup>9th</sup> 22<sup>nd</sup> St. +

opper tack on top of fence post N.W. Cor.  
K<sup>9th</sup> 22<sup>nd</sup> St. +

opper tack in plant, about 4' S.W. of  
S.W. Cor. L<sup>9th</sup> 22<sup>nd</sup> St. +

opper tack in stave about 12' N.W.  
of N.W. Cor. M<sup>9th</sup> 22<sup>nd</sup> St. +

Whom on B.M. N.E. Cor. school house  
S.W. Cor. of St. Dip. 007 to low

opper tack in lintel S.E. Cor. of house  
N.W. Cor 24<sup>th</sup> M. St. +

Whom on B.M. N.W. Cor 25<sup>th</sup> M. St. Dip. 007

Sta.	+	H.I.	—	Elev.	
From 26 <sup>H</sup> to 22 <sup>nd</sup> on L. St.					
Δ	5.243	72.588	4.726	67.346	
Δ	9.008	76.867	4.614	67.862	B.M.
			3.279	72.253	B.M.
Δ	5.657	79.245	5.846	73.588	
				73.399	
From K to A. On 24 <sup>th</sup> St.					
Δ	2.025	105.491	11.788	103.456	
Δ	0.903	94.596	8.991	93.693	
Δ	3.570	89.175	7.228	85.608	
			0.513	80.947	B.M.
Δ	11.300	99.962	0.550	88.662	
Δ	4.340	103.752	1.288	99.412	
Δ	8.458	110.922	0.737	102.464	B.M.
Δ	8.462	118.647	7.173	110.185	
			0.534	111.474	B.M.
Δ	10.769	128.882	0.516	118.113	
				128.366	

Iron spike in fence post S.W. of N.W. Cor  
L and 24<sup>th</sup> Sts. +

Iron wire in N.E. Cor of Collaps. Appon  
Center of 23<sup>rd</sup> St. on L. St. 0

Chimney on B.M. S.W. Cor L and 22<sup>nd</sup> Sts. Def. 0.015

Copper tack in water table N.E. Cor of Stone  
S.W. Cor. K and 24<sup>th</sup> Sts. +

Iron spike in Cor of fence post N.E. Cor.  
J and 24<sup>th</sup> Sts. +

Iron spike in fence post N.W. Cor.  
I and 24<sup>th</sup> Sts. +

Sta.	+	H.I.	-	Elev.	
Δ	9182	137.528	6.445	128.366	
			0.571	131.103	B.M.
Δ	10516	147.643	1.228	137.037	
			0.505	146.315	B.M.
Δ	9894	156.932	1.762	147.038	
Δ	10889	166.059	7.712	155.170	
			0.738	159.347	B.M.
Δ	10728	176.049	3.802	165.321	
			1.544	172.247	B.M.
Δ	8391	182.896	3.712	174.505	
Δ	8261	187.445	8.030	179.184	
			7.904	174.866	B.M.
Δ	6988	186.529	1.910	179.541	B.M.
			9.779	194.619	B.M.
Δ	5901	182.657	5.980	176.750	
				176.671	

Iron spike in fence post N.E. Cor.  
H. Aug 24<sup>th</sup> Sts. ✓+

Iron spike in fence post S.E. Cor. of  
G. Aug 24<sup>th</sup> Sts. ✓+

Iron spike in fence post N.E. Cor.  
of F. Aug 24<sup>th</sup> Sts. ✓+

Iron spike in fence post S.E. Cor.  
E. Aug 24<sup>th</sup> Sts. ✓

Copper tack in plug 2' N.Y. of N.W. Cor.  
D. Aug 24<sup>th</sup> Sts. ✓+

Copper tack in plug 2' N.Y. of N.Y. Cor.  
C. Aug 24<sup>th</sup> Sts. ✓+

Copper tack in plug 2' N.E. of N.E. Cor.  
B. Aug 24<sup>th</sup> Sts. ✓+

Character on B.M. at A. Aug 24<sup>th</sup> Sts. 1010.013

Hamilton  
Hacrell  
Van Hook

37

Sta.	+	H.I.	—	Color	
Δ	4.732	169.637	7.289	164.905	
Δ	6.839	169.187	7.475	162.348	B.M.
Δ	6.560	168.272	5.728	161.712	B.M.
Δ	1.170	162.714	8.764	162.544	B.M.
Δ	8.773	162.723	4.349	154.950	B.M.
Δ	2.040	161.414	3.833	159.374	
			9.644	157.581	B.M.
Δ	0.814	152.584	8.954	151.770	
Δ	1.120	144.750	7.447	143.630	
			9.376	137.303	B.M.
Δ	0.979	136.353	5.530	135.374	
				130.823	
From A. to N. Crv 19 <sup>th</sup> St.					
Δ	3.470	63.918	3.402	60.448	
			7.133	60.516	B.M.
Δ	8.430	65.219	0.579	56.785	
			11.446	76.075	64.630

Copper track in bluff abt. 10' S. Y. of tel.  
 pole About S. Y. Crv. B. <sup>23<sup>rd</sup></sup> Sts. ✓  
 Iron spike in ground About S.W. Crv.  
 C. <sup>23<sup>rd</sup></sup> Sts. ✓  
 Iron spike in fence post S.W. Crv. D. <sup>23<sup>rd</sup></sup> Sts. ✓  
 Iron " on top of fence post N.W. Crv.  
 E. <sup>23<sup>rd</sup></sup> Sts. ✓  
 Copper track in bluff 15" N.E. of  
 N.E. Crv. F. <sup>23<sup>rd</sup></sup> Sts. ✓  
 Copper track in bluff About S.E. Crv. G.  
 - and 23<sup>rd</sup> Sts. ✓  
 Shovel on B.M. S.E. Crv. G. <sup>22<sup>nd</sup></sup> by 0.010

Copper track on top of fence post  
 S.Y. Crv. B. <sup>19<sup>th</sup></sup> Sts. ✓



Sta.	+	H.I.	-	Obs.	
A		76.075	6.248	69.827	B.M.
			0.552		
Δ	9.953	85.476	0.664	75.823	
Δ	8.242	93.054	5.964	84.812	
Δ	6.458	93.548	0.344	87.090	
			10.557	93.204	B.M.
Δ	3.806	86.797	3.433	82.991	
			7.188	83.364	B.M.
Δ	5.818	85.427	0.837	79.609	
			6.165	84.590	B.M.
Δ	3.100	82.262	4.549	79.262	
Δ	8.697	86.410	3.116	77.713	
			9.626	83.294	B.M.
Δ	1.050	77.834	11.179	76.784	
Δ	2.650	69.308	3.143	66.655	B.M.
Δ	8.692	74.854	1.174	66.162	
			5.329	73.690	B.M.
Δ	3.538	73.063	5.313	69.523	
Δ	3.863	71.613		67.750	B.M.

Iron spike in fence post about  
S.W. Cor. C and 19<sup>th</sup> Sts. ✓

Iron spike in cor. of fence. S.W. Cor.  
D and 19<sup>th</sup> Sts. ✓

Copper tack in place 28" N.E. of N.E. Cor.  
of E. and 19<sup>th</sup> Sts. ✓

Copper tack on top of fence post  
N.E. Cor. F and 19<sup>th</sup> Sts. ✓

Copper tack on top of fence post  
100' S. of SE. Cor. G and 19<sup>th</sup> Sts. ✓

Iron spike in N.E. Cor. of wh. pole  
S.W. Cor. H and 19<sup>th</sup> Sts. ✓

Copper tack on top of fence post  
S.E. Cor. I and 19<sup>th</sup> Sts. ✓

Iron spike in cor. of fence  
N.W. Cor. J and 19<sup>th</sup> Sts. ✓

Sta	+	H.I.	—	Obs
		71.613	2.320	
Δ	3.508	72.801	1.682	69.293
		4.980	71.119	B.M.
Δ	3.029	70.850	6.828	67.821
		9.112	64.022	B.M.
Δ	2.537	64.275	1.025	61.738
		4.946	63.250	B.M.
Δ	1.411	60.740	11.432	59.329
Δ	0.772	50.080	10.616	49.308
Δ	0.546	40.010	5.763	39.464
			34.257	
from A. to N. on 17 <sup>th</sup> St.				
		1.561	85.030	11.468
		0.538	74.100	5.139
			11.590	68.961
				B.M.
		0.973	63.483	6.367
			3.088	57.116
				B.M.
		11.302	71.697	1.878
				60.395
				69.819

On top of ball of cor. fence post  
 S.E. Cor. K. and 19<sup>th</sup> Sts. ✓+

Copper tack in base board of fence  
 S.E. Cor. L. and 19<sup>th</sup> Sts. ✓+

Iron spike in cor. of fence N.E. Cor.  
 of M. and 19<sup>th</sup> Sts. ✓+

Checked on B.M. N.E. Cor. 19<sup>th</sup>  
 and N. Sts. bsp. 0.001

Two copper tacks on top of fence post  
 1<sup>st</sup> S of S.E. Cor. of B. and 18<sup>th</sup> Sts. ✓+

Copper tack in water table of house  
 N.E. Cor. of C. and 18<sup>th</sup> Sts. ✓

Checked on B.M. S.W. C. and 19<sup>th</sup> bsp. 0.008

Sta.	+	H.I.	—	Elev.	
From D. to N. St. on 18 <sup>th</sup> St. Commencing					
at B.M. S.V. Cor D. <sup>and</sup> 19 <sup>th</sup> Sts.					
Δ	102.06	103.410	2.308	93.204	
Δ	4.816	105.918	0.873	101.102	
			11.620	105.045	B.M.
Δ	0.707	95.005	4.790	94.298	
			11.750	90.115	B.M.
Δ	0.840	84.095	11.660	83.255	
Δ	0.837	73.272	11.446	72.435	
			7.287	65.985	B.M.
Δ	2.740	64.566	11.446	61.826	
			1.437	63.129	B.M.
Δ	195.9	60.697	5.827	57.739	
			11.229	49.469	B.M.
Δ	5.671	56.249	10.120	50.578	
			2.940	53.309	B.M.
Δ	84.46	61.889	2.906	53.443	
			1.914	59.975	B.M.
Δ	32.60	59.712	5.437	56.452	
			2.026	57.686	B.M.

Copper tack in pluf about S.E. Cor  
D. and 18<sup>th</sup> Sts. ✓

Copper tack in pluf 3' N.E. of N.E. Cor  
of E. and 18<sup>th</sup> Sts. ✓

Copper tack on top of fence post  
N.E. Cor F. and 18<sup>th</sup> Sts. ✓

Copper tack in west stable <sup>N.W. Cor of Church</sup>  
S.E. Cor G. and 18<sup>th</sup> Sts. ✓

Spun N.E. Cor. of Ch. pole S.V. Cor.  
of H. and 18<sup>th</sup> Sts. ✓

Spun in cor. of building S.V. Cor.  
I. and 18<sup>th</sup> Sts. ✓

Copper tack on top of fence post  
S.E. Cor J. and 18<sup>th</sup> Sts. ✓

Copper tack on top of fence post  
S.E. Cor K. and 18<sup>th</sup> Sts. ✓

Sta.	+	H.I.	-	Elev.	
		59.712	6.182		
A	3.843	57.373	3.152	53.530	
A	2.989	57.110	8.238	54.221	B.M.
A	2.983	57.956	3.210	49.872	
			7.717	49.655	B.M.
A	2.041	46.179	11.026	44.138	
A	1.472	36.628	8.648	35.153	
A	3.107	31.084	7.249	27.977	
				23.835	

All spots up to here entered in Bench Book

Upper tack on top of fence post  
 N.W. Cor L and 17<sup>th</sup> Sts + v

Upper tack between two windows  
 on top of fence near S.E. cor. N. 2<sup>nd</sup> 17<sup>th</sup> Sts + v

bluesia on B.M. S.W. cor. N. 2<sup>nd</sup> 17<sup>th</sup> Sts  
 hif. 0.002

Sta	+	H.I.	—	Elev.	
From N. to A. on 17 <sup>th</sup> St.					
Δ	10.609	29.762	1.315	19.153	
Δ	9.147	37.494	1.696	28.447	
Δ	6.431	42.229	4.567	35.798	
			4.174	37.662	B.M.
Δ	7.623	45.678	2.412	38.055	
			5.260	43.266	B.M.
Δ	5.779	46.197	5.678	40.418	
Δ	4.036	44.555	3.054	40.579	B.M.
Δ	6.734	48.235	6.111	41.501	
			8.390	42.124	B.M.
Δ	4.839	44.684	3.983	39.745	
			5.239	40.801	B.M.
Δ	3.249	42.694	3.998	39.445	
Δ	4.274	42.980	0.608	38.706	B.M.
Δ	7.440	49.812	0.858	42.372	
			0.510	49.954	B.M.
Δ	10.367	59.669	0.539	49.302	
Δ	11.602	70.723	0.533	59.131	
Δ	11.537	81.757		70.200	

Shore in tel. pole near N.E. Cor. M. <sup>9</sup>/<sub>17</sub> St. \*

Copper tack in fence nail <sup>2</sup>/<sub>10</sub> N. of cor  
west N.E. Cor. L. <sup>9</sup>/<sub>17</sub> St. \*

Shore in tel. pole about N.W. Cor. K. <sup>9</sup>/<sub>17</sub> St. \*

Shore in cor of fence N.W. Cor. J. <sup>9</sup>/<sub>17</sub> St. \*

Copper tack on top of fence nail  
9" N. of N.W. Cor. I. <sup>9</sup>/<sub>17</sub> St. \*

Copper tack in water table N.E. Cor. of  
school S.W. Cor. H. <sup>9</sup>/<sub>17</sub> St. \*

Copper tack on top of fence nail  
S.W. G. <sup>9</sup>/<sub>17</sub> St. \*

Sta.	+	H.I.	—	Elev.	
		91.751	4.870		
Δ	11.477	88.359	0.536	76.881	B.M.
Δ	10.635	92.458	0.636	87.823	
Δ	6.330	104.152	6.453	97.822	
		11.601	97.669		B.M.
Δ	0.580	93.131	11.711	92.551	
Δ	0.659	82.079	11.674	81.420	
Δ	14.85	71.890	11.520	70.405	
Δ	2.875	63.245	10.095	60.370	
		11.600	53.180		B.M.
Δ	3.622	55.267	3.029	57.645	
		3.594	52.238		B.M.
Δ	10.193	61.866	0.744	51.673	
Δ	11.107	72.229	2.289	61.122	
		0.506	69.940		B.M.
Δ	11.686	83.409	0.518	71.723	
	10.171	93.062	3.084	82.891	
	8.314	98.292	1.786	89.978	
			96.506		

chipper taken in plug about S.E. Cor.  
E. Aug. 17<sup>th</sup> Sts. \*

chipper taken in plug about 2' N.W.  
of N.W. Cor. E. Aug 17<sup>th</sup> Sts. \*

chipper taken in plug about 20" S.W.  
of S.W. Cor. D. Aug 17<sup>th</sup> Sts. \*

from upper Cor. of fence S.W. Cor. of  
C. Aug 17<sup>th</sup> Sts. \*

chipper taken in plug 1' S. of S.W. Cor.  
B. Aug 17<sup>th</sup> Sts. \*

chipper taken in B.M. in tel hole S.E. Cor.  
A. Aug 17<sup>th</sup> Sts. leaf 0209







Sta.	+	H.I.	-	Elev.
		61.81		
3			3.81	58.00
+3-0			4.06	57.75
4			4.31	57.50
15-0			4.31	57.50
+5-0			6.06	55.75
1			7.81	54.00
Δ	2.05	55.39	8.47	53.34
+5-0			3.14	52.25
			4.89	50.50
			6.12	49.27

Top of nail N. Side on top of cabinet

Checked on B.M. Spikes on top of post S.E. Cor  
16<sup>th</sup> by B. H.

D.S. Have car rd from E. side of 12<sup>th</sup>  
to E. side of 16<sup>th</sup> St.

Sta.	+	H.I.	—	Elev.
				69.90
E of 12 <sup>th</sup>	5.68	75.48	3.68	71.80
0+50			6.76	68.72
A 1			9.83	65.65
+50	1.52	67.17	4.60	62.57
2			7.67	59.50
<del>+50</del>			<del>8.17</del>	<del>59.00</del>
13 <sup>th</sup> A 0			8.67	58.50
+50	2.85	61.35	3.10	58.25
1			3.35	58.00
+50			3.60	57.75
2			3.85	57.50
14 <sup>th</sup> A 0			3.85	57.50
+50			3.60	57.75
1			3.35	58.00
+50	4.23	62.23	3.98	58.25
2			3.73	58.50
+50			3.98	58.25
A 3.50	61.81	3.92	58.31	

164/10 49.27 from top cor. post S.E. Cr. 47

Commenced at B.M. N.E. Cr. 12<sup>th</sup> & 9<sup>th</sup> S. St.  
Rail 0.77 to low

how thick in tie <sup>SE</sup> 3 from 2+50.

73.38 " " " " " Base of iron post  
 74.29 N.E. Cor 6.9<sup>th</sup> 12. - copper tower  
 on top of post

East side of 12<sup>th</sup> street in center  
 of D St 71.8 ✓  
 +50 68.72 ✓  
 1 65.65 ✓  
 +50 62.57 ✓  
 2 59.50 ✓

0 58.5 ✓  
 +50 58.25 ✓  
 1 58.00 ✓  
 +50 57.75 ✓  
 2 57.50 ✓

0 57.5 ✓  
 +50 57.75 ✓  
 1 58.00 ✓  
 +50 58.25 ✓  
 2 58.50 ✓  
 +50 58.75 ✓  
 3 59.00 ✓

West side of 13<sup>th</sup> St.

East side of 13<sup>th</sup> St.

West side of 14<sup>th</sup> St.

East side of 14<sup>th</sup> St.

69.80 N.E. Cor 8.9<sup>th</sup> 12<sup>th</sup> street in  
 post

Sta	+	H.T.	-	Elev	B.T.
-----	---	------	---	------	------

		4.800	85.982	81.182	
--	--	-------	--------	--------	--

		"	"	9.100	n w
--	--	---	---	-------	-----

3		5-8,00			
+00		5-7,70-			
4		5-7,50-		West side of	13 <sup>th</sup> St
0		5-7,5-		East side of	15 <sup>th</sup> St
+00		5-5,70-			
1		5-4,00-			
+00		5-2,20-			
2		5-0,5-		West side of	14 <sup>th</sup> St
0		5-0,0-		East side of	16 <sup>th</sup> St

19<sup>th</sup> St.

N 34,256 N.E. Cor. Shk. 1' N fence cor.

N 27,382 S.W. Cor. cap. lace in water table

A 85,688 Shk. in N.W. Cor fence near 17<sup>th</sup> & A post. Sof major road

A 60,448 Iron pin in ground in valley 10' W of ditch

18<sup>th</sup> St.

N 23,837 S.W. Cor. Shk. in fence cor.

A 83,469 S.W. Cor. Shk. in <sup>cor</sup> fence cor.

17<sup>th</sup> St.

N 19,153 S.E. Cor. Shk. in 1st. post

A 96,497 S.E. Cor. " " " "

16<sup>th</sup> St.

N 9,197 S.W. Cor. Shk. in fence cor.

A 104,775 S.W. Cor. " " ground 10' S.W. of cor.

15<sup>th</sup> St.

N 3,902 N.E. cor. Shk. in fence post

" 0,678 N.W. Cor. Shk. in fence post

A 95,177 N.W. Cor. Shk. in ground 6'

N.W. / N.W. Cor

70.773  
1.010  
69.763

70.773  
1.010  
69.763

69.80  
75.8  
42

73.38  
34.2  
0.38 low

73.63  
4.39  
69.24

70.06  
4.02  
75.04

TRAVERSE TABLE FOR TRANSIT BOOK,  
From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	81
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	80
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	79
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	78
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	77
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	76
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	75
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	74
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	73
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	72
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	71
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	70
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	69
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	68
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	67
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	66
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	65
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	64
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	63
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	62
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	61
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	60
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	59
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	58
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	57
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	56
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	55
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	54
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	53
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	52
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	51
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	50
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	49
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	48
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	47
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	46
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	45
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	44
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	43
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	42
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	41
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	40
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	39
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	38
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	37
45	70.71	70.71							36
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		

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