

W337

W  
337

337

MICROFILMED  
JAN 12 1965

Our Leather Bound Engineers Note Books are carried in the following rulings:

- No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.
- No. 382 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 4 x 4 to the inch, Center Line Red.
- No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 8x8 to the inch, Center Line Red.
- No. 385 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 8 vertical and 4 horizontal lines to the inch, Center Line Red.

We also carry the Note Books listed above, bound in extra strong Fabri-Hide (otherwise the same quality of book), which can be furnished at a somewhat lower price.

In ordering Fabri-Hide covered books, add the letter "F" to catalog number.

**THE FREDERICK POST CO.**  
*ENGINEERING and DRAFTING SUPPLIES*  
IRVING PARK STATION  
CHICAGO, ILL.

Index.  
Field Notes of Coordinate  
Cross Sections of El Capitan  
Dam Site. 1932.

Mar. 10 to Mar. 14, 1932.

Converse

Simpson

Louden

Bailey.

## Contd. from Book #334.

T.P.	8.96	569.33	560.37	See	
3720					
5660			11.8	57.5	✓ ✓
3710					
5660			10.0	59.3	✓ ✓
3740					
5660			10.4	58.9	✓ ✓
3690					
5660			10.2	59.1	✓ ✓
3680					
5660			9.3	60.0	✓ ✓
3670					
5660			8.0	61.3	✓ ✓
3660					
5660			8.2	61.1	✓ ✓
3650					
5660			7.8	61.5	✓ ✓
3640					
5660			7.1	62.2	✓ ✓
3630					
5660			6.1	63.2	✓ ✓
3620					
5660			5.2	64.1	✓ ✓
3610					
5660			5.0	64.3	✓ ✓
3600					
5660			4.7	64.6	✓ ✓
3590					
5660			4.7	64.6	✓ ✓
3580					
5660			5.9	63.4	✓ ✓
3570					
5660			5.9	63.4	✓ ✓
3560					
5660			5.8	63.5	✓ ✓
3550					
5660			6.0	63.3	✓ ✓
3540					
5660			5.5	63.8	✓ ✓
3530					
5660			5.6	63.7	✓ ✓
3520					
5660			5.4	63.9	✓ ✓
3510					
5660			5.4	63.9	✓ ✓
3500					
5660			5.4	63.9	✓ ✓
3500					
5670			5.4	63.9	✓ ✓

Mar 10<sup>th</sup> 1932#  
Book 334Simpson - notes  
Koudeh - Fed  
Bailey - Level

569.33

3510				
5670	5.1	564.2	✓	
3520				
5670	5.4	63.9	✓	
3530				
5670	5.5	63.8	✓	
3540				
5670	5.6	63.7	✓	
3550				
5670	6.0	63.3	✓	
3560				
5670	5.7	63.6	✓	
3570				
5670	6.3	63.0	✓	
3580				
5670	5.3	64.0	✓	
3590				
5670	4.6	64.7	✓	
3600				
5670	4.8	64.5	✓	
3610				
5670	5.3	64.0	✓	
3620				
5670	5.8	63.5	✓	
3630				
5670	6.5	62.8	✓	
3640				
5670	7.0	62.3	✓	
3650				
5670	8.3	61.0	✓	
3660				
5670	8.1	61.2	✓	
3670				
5670	8.5	60.8	✓	
3680				
5670	10.0	59.3	✓	
3690				
5670	10.0	59.3	✓	
3700				
5670	9.9	59.4	✓	
3710				
5670	10.2	59.1	✓	
3720				
5670	11.5	57.8	✓	
3720				
5680	11.5	57.8	✓	
3710				
5680	10.7	58.6	✓	
3700				
5680	9.8	59.5	✓	

D.S. ←

569.33

3690				
5680	9.8	559.5	✓	✓
3680				
5680	10.0	59.3	✓	✓
3670				
5680	9.8	59.5	✓	✓
3660				
5680	8.3	61.0	✓	✓
3650				
5680	8.2	61.1	✓	✓
3640				
5680	8.0	61.3	✓	✓
3630				
5680	7.2	62.1	✓	✓
3620				
5680	6.1	63.2	✓	✓
3610				
5680	5.7	63.6	✓	✓
3600				
5680	5.2	64.1	✓	✓
3590				
5680	4.9	64.4	✓	✓
3580				
5680	4.6	64.7	✓	✓
3570				
5680	6.3	63.0	✓	✓
3560				
5680	5.4	63.9	✓	✓
3550				
5680	6.0	63.3	✓	✓
3540				
5680	5.7	63.6	✓	✓
3530				
5680	5.5	63.8	✓	✓
3520				
5680	5.4	63.9	✓	✓
3510				
5680	5.1	64.2	✓	✓
3500				
5680	5.3	64.0	✓	✓
3710				
5690	10.8	58.5	✓	✓
3700				
5690	9.0	60.3	✓	✓
3690				
5690	9.8	59.5	✓	✓
3680				
5690	9.9	59.4	✓	✓
3670				
5690	9.8	59.5	✓	✓

D.L.

	569.33			
3660				
5690				
3650	8.4	560.9	✓	
5690				
3640	8.5	60.8	✓	
5690				
3630	8.2	61.1	✓	
5690				
3620	8.0	61.3	✓	
5690				
3610	6.8	62.5	✓	
5690				
3600	6.1	63.2	✓	
5690				
3590	5.8	63.5	✓	
5690				
3580	5.2	64.1	✓	
5690				
3570	4.8	64.5	✓	
5690				
3560	5.8	63.5	✓	
5690				
3550	5.6	63.7	✓	
5690				
3540	6.1	63.2	✓	
5690				
3530	5.8	63.5	✓	
5690				
3520	5.5	63.8	✓	
5690				
3510	5.4	63.9	✓	
5690				
3500	5.1	64.2	✓	
5690				
3500	5.3	64.0	✓	
5700				
3510	5.3	64.0	✓	
5700				
3520	5.1	64.2	✓	
5700				
3530	5.4	63.9	✓	
5700				
3540	5.6	63.7	✓	
5720				
3550	5.6	63.7	✓	
5700				
3560	5.9	63.4	✓	
5700				
3570	6.0	63.3	✓	
5700				
3570	4.7	64.6	✓	
5700				

Sl.

	569.33			
3580				
5700		4.9	564.4	✓
3590				
5700		5.5	63.8	✓
3600				
5700		5.9	63.4	✓
3610				
5700		6.5	62.8	✓
3620				
5700		7.4	61.9	✓
3630				
5700		8.1	61.2	✓
3640				
5700		8.3	61.0	✓
3650				
5700		7.6	61.7	✓
3660				
5700		9.8	59.5	✓
3670				
5700		9.8	59.5	✓
3680				
5700		9.8	59.5	✓
3690				
5700		9.9	59.4	✓
3700				
5700		8.2	61.1	✓
3710				
5700		10.6	58.7	✓
3720				
5710		10.9	58.4	✓
3710				
5710		9.6	59.7	✓
3700				
5710		8.4	60.9	✓
3690				
5710		8.3	61.0	✓
3680				
5710		9.8	59.5	✓
3670				
5710		10.0	59.3	✓
3660				
5710		9.8	59.5	✓
3650				
5710		8.6	60.7	✓
3640				
5710		8.0	61.3	✓
3630				
5710		8.2	61.1	✓
3620				
5710		7.9	61.4	✓

*d.p.*



	569.33			
3610				
5710		7.1	562.2 ✓	✓
3600				
5710		6.0	63.3 ✓	✓
3590				
5710		5.6	63.7 ✓	✓
3580				
5710		5.3	64.0 ✓	✓
3570				
5710		5.0	64.3 ✓	✓
3560				
5710		5.7	63.6 ✓	✓
3550				
5710		6.4	62.9 ✓	✓
3540				
5710		5.5	63.8 ✓	✓
3530				
5710		5.6	63.7 ✓	✓
3520				
5710		5.6	63.7 ✓	✓
3510				
5710		5.0	64.3 ✓	✓
3500				
5710		5.0	64.3 ✓	✓
3500				
5720		4.9	64.4 ✓	✓
3510				
5720		5.0	64.3 ✓	✓
3520				
5720		5.7	63.6 ✓	✓
3530				
5720		5.2	64.1 ✓	✓
3540				
5720		5.9	63.4 ✓	✓
3550				
5720		6.3	63.0 ✓	✓
3560				
5720		5.1	64.2 ✓	✓
3570				
5720		5.1	64.2 ✓	✓
3580				
5720		5.6	63.7 ✓	✓
3590				
5720		5.8	63.5 ✓	✓
3600				
5720		6.6	62.7 ✓	✓
3610				
5720		7.6	61.7 ✓	✓
3620				
5720		8.2	61.1 ✓	✓

569.33

3630				
5720	7.6	561.7	✓	✓
3640				
5720	8.1	61.2	✓	✓
3650				
5720	10.0	59.3	✓	✓
3660				
5720	9.7	59.6	✓	✓
3670				
5720	10.0	59.3	✓	✓
3680				
5720	8.8	60.5	✓	✓
3690				
5720	7.5	61.8	✓	✓
3700				
5720	8.7	60.6	✓	✓
3710				
5720	10.2	59.1	✓	✓
3720				
5720	11.0	58.3	✓	✓
3720				
5720	11.7	57.6	✓	✓
3710				
5730	9.9	59.4	✓	✓
3700				
5730	9.0	60.3	✓	✓
3690				
5730	8.0	61.3	✓	✓
3680				
5730	7.7	61.6	✓	✓
3670				
5730	9.1	60.2	✓	✓
3660				
5730	9.5	59.8	✓	✓
3650				
5730	9.5	59.8	✓	✓
3640				
5730	9.7	59.6	✓	✓
3630				
5730	7.6	61.7	✓	✓
3620				
5730	7.0	62.3	✓	✓
3610				
5730	8.9	60.4	✓	✓
3600				
5730	7.4	61.9	✓	✓
3590				
5730	6.3	63.0	✓	✓
3580				
5730	5.8	63.5	✓	✓

lit. ✓

3570	569.33			
5730		5.3	564.0	✓ ✓
3560				
5730		5.1	64.2	✓ ✓
3550				
5730		5.8	63.5	✓ ✓
3540				
5730		6.0	63.3	✓ ✓
3530				
5730		6.1	63.2	✓ ✓
3520				
5730		5.6	63.7	✓ ✓
3510				
5730		5.1	64.2	✓ ✓
3500				
5730		4.9	64.4	✓ ✓
3500				
5740		4.8	64.5	✓ ✓
3510				
5740		5.4	63.9	✓ ✓
3520				
5740		5.8	63.5	✓ ✓
3530				
5740		5.7	63.6	✓ ✓
3540				
5740		6.0	63.3	✓ ✓
3550				
5740		5.4	63.9	✓ ✓
3560				
5740		5.4	63.9	✓ ✓
3570				
5740		5.6	63.7	✓ ✓
3580				
5740		6.0	63.3	✓ ✓
3590				
5740		6.6	62.7	✓ ✓
3600				
5740		7.8	61.5	✓ ✓
3610				
5740		7.8	61.5	✓ ✓
3620				
5740		7.4	61.9	✓ ✓
3630				
5740		9.2	60.1	✓ ✓
3640				
5740		9.5	59.8	✓ ✓
3650				
5740		9.4	59.9	✓ ✓
3660				
5740		9.8	59.5	✓ ✓

*dis.*

569.33

3670				
5740	8.1	561.2	✓	✓
3680				
5740	7.6	61.7	✓	✓
3690				
5740	8.7	60.6	✓	✓
3700				
5740	8.9	60.4	✓	✓
3710				
5740	10.1	59.2	✓	✓
3720				
5740	10.7	58.6	✓	✓
3720				
5750	11.0	58.3	✓	✓
3710				
5750	10.4	58.9	✓	✓
3700				
5750	8.8	60.5	✓	✓
3690				
5750	8.7	60.6	✓	✓
3680				
5750	7.5	61.8	✓	✓
3670				
5750	7.4	61.9	✓	✓
3660				
5750	9.4	59.9	✓	✓
3650				
5750	9.7	59.6	✓	✓
3640				
5750	9.4	59.9	✓	✓
3630				
5750	10.0	59.3	✓	✓
3620				
5750	8.6	60.7	✓	✓
3610				
5750	7.4	61.9	✓	✓
3600				
5750	7.9	61.4	✓	✓
3590				
5750	7.3	62.0	✓	✓
3580				
5750	6.3	63.0	✓	✓
3570				
5750	6.1	63.2	✓	✓
3560				
5750	5.6	63.7	✓	✓
3550				
5750	5.4	63.9	✓	✓
3540				
5750	5.9	63.4	✓	✓

d.s.

569.33

3530				
5750	6.0	563.3	-	✓
3520				
5750	5.8	63.5	✓	✓
3510				
5750	5.8	63.5	✓	✓
3500				
5750	5.2	64.1	✓	✓
3710				
5760	10.5	58.8	✓	✓
3700				
5760	9.0	60.3	✓	✓
3690				
5760	8.6	60.7	✓	✓
3680				
5760	8.5	60.8	✓	✓
3670				
5760	7.4	61.9	✓	✓
3660				
5760	7.8	61.5	✓	✓
3650				
5760	9.7	59.6	✓	✓
3640				
5760	9.5	59.8	✓	✓
3630				
5760	9.6	59.7	✓	✓
3620				
5760	10.0	59.3	✓	✓
3610				
5760	8.6	60.7	✓	✓
3600				
5760	8.2	61.1	✓	✓
3590				
5760	7.8	61.5	✓	✓
3580				
5760	6.7	62.6	✓	✓
3570				
5760	6.3	63.0	✓	✓
3560				
5760	6.1	63.2	✓	✓
3550				
5760	5.9	63.4	✓	✓
3540				
5760	5.5	63.8	✓	✓
3530				
5760	6.2	63.1	✓	✓
3520				
5760	5.6	63.7	✓	✓

Lit. ←

3510	569.33			
5760		5.8	563.5	✓ ✓
3500				
5760		5.5	63.8	✓ ✓
3500				
5770		5.4	63.9	✓ ✓
3510				
5770		5.7	63.6	✓ ✓
3520				
5770		6.1	63.2	✓ ✓
3530				
5770		5.2	64.1	✓ ✓
3540				
5770		5.4	63.9	✓ ✓
3550				
5770		5.5	63.8	✓ ✓
3560				
5770		6.3	63.0	✓ ✓
3570				
5770		6.7	62.6	✓ ✓
3580				
5770		7.5	61.8	✓ ✓
3590				
5770		8.1	61.2	✓ ✓
3600				
5770		8.5	60.8	✓ ✓
3610				
5770		9.4	59.9	✓ ✓
3620				
5770		9.8	59.5	✓ ✓
3630				
5770		9.6	59.7	✓ ✓
3640				
5770		10.0	59.3	✓ ✓
3650				
5770		7.2	62.1	✓ ✓
3660				
5770		7.7	61.6	✓ ✓
3670				
5770		8.1	61.2	✓ ✓
3680				
5770		8.6	60.7	✓ ✓
3690				
5770		8.7	60.6	✓ ✓
3700				
5770		8.9	60.4	✓ ✓
3710				
5770		10.3	59.0	✓ ✓
3710				
5780		10.7	58.6	✓ ✓

A.P.C.

	569.33			
3700				
5780		8.9	560.4	✓
3690				
5780		8.6	60.7	✓
3680				
5780		8.6	60.7	✓
3670				
5780		8.4	60.9	✓
3660				
5780		7.8	61.5	✓
3650				
5780		7.2	61.1	✓
3640				
5780		9.6	59.7	✓
3630				
5780		9.8	59.5	✓
3620				
5780		9.8	59.5	✓
3610				
5780		9.6	59.7	✓
3600				
5780		9.2	60.1	✓
3590				
5780		8.5	60.8	✓
3580				
5780		8.2	61.1	✓
3570				
5780		7.0	62.3	✓
3560				
5780		6.7	62.6	✓
3550				
5780		6.1	63.2	✓
3540				
5780		6.0	63.3	✓
3530				
5780		5.1	64.2	✓
3520				
5780		5.6	63.7	✓
3510				
5780		5.7	63.6	✓
3500				
5780		5.3	64.0	✓
3500				
5790		5.3	64.0	✓
3510				
5790		5.5	63.8	✓
3520				
5790		5.4	63.9	✓
3530				
5790		5.9	63.4	✓

*J.P.* ✓

569.33

3540				
5790	6.3	563.0	✓	✓
3550				
5790	6.4	62.9	✓	✓
3560				
5790	6.7	62.6	✓	✓
3570				
5790	7.8	61.5	✓	✓
3580				
5790	8.7	60.6	✓	✓
3590				
5790	8.0	61.3	✓	✓
3600				
5790	9.6	59.7	✓	✓
3610				
5790	9.8	59.5	✓	✓
3620				
5790	9.5	59.8	✓	✓
3630				
5790	9.0	60.3	✓	✓
3640				
5790	7.2	62.1	✓	✓
3650				
5790	7.8	61.5	✓	✓
3660				
5790	8.0	61.3	✓	✓
3670				
5790	8.6	60.7	✓	✓
3680				
5790	8.0	61.3	✓	✓
3690				
5790	7.8	61.5	✓	✓
3700				
5790	9.7	59.6	✓	✓
3710				
5790	10.6	58.7	✓	✓
3710				
5800	10.8	58.5	✓	✓
3700				
5800	9.4	59.9	✓	✓
3690				
5800	8.2	61.1	✓	✓
3680				
5800	7.6	61.7	✓	✓
3670				
5800	8.6	60.7	✓	✓
3660				
5800	8.6	60.7	✓	✓
3650				
5800	8.2	61.1	✓	✓





3640		569.33	7.7	561.6	✓	✓
5800			7.3	62.0	✓	✓
3620			9.6	59.7	✓	✓
5800			9.2	60.1	✓	✓
3610			10.0	59.3	✓	✓
5800			9.2	60.1	✓	✓
3600			7.8	61.5	✓	✓
5800			8.6	60.7	✓	✓
3590			7.4	61.9	✓	✓
5800			6.7	62.6	✓	✓
3580			6.6	62.7	✓	✓
5800			6.5	62.8	✓	✓
3570			6.0	63.3	✓	✓
5800			5.3	64.0	✓	✓
3560			5.4	63.9	✓	✓
5800						
3550						
5800						
3540						
5800						
3530						
5800						
3520						
5800						
3510						
5800						
3500						
5800						
T.P.	3.15	566.90	5.58	563.75		
			5.49	561.41	= check	

N 3500  
or E 5000 E 1.561.40

J.S.

MAR. 10<sup>th</sup> 1932

Simpson - notes

Kaunden - Rod

Bailey - Level

15

12.64 718.46

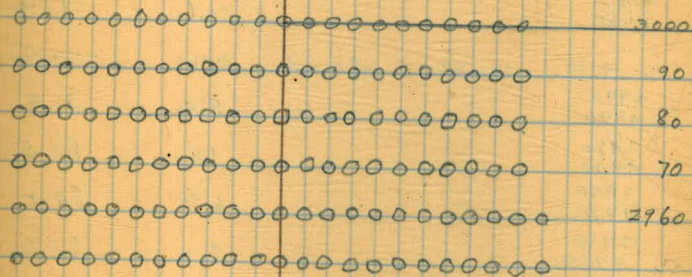
765.82 - Hub at Jc. end Axis

N3000  
E3000

2990					
5000	5.2	773.3	✓	✓	
2980	0.0	78.5	✓	✓	
5010					
2990	6.4	72.1	✓	✓	
5010					
2980					
5020	1.4	77.1	✓	✓	
2990					
5020	8.3	70.2	✓	✓	
2980					
5030	4.1	74.4	✓	✓	
2990					
5030	8.6	69.9	✓	✓	
2980					
5040	5.0	73.5	✓	✓	
2990					
5040	10.2	68.3	✓	✓	
2980					
5050	6.2	72.3	✓	✓	
2990					
5050	13.4	65.1	✓	✓	
2980					
5060	10.4	68.1	✓	✓	
2990					
5060	16.7	61.8	✓	✓	
2980					
5070	12.7	65.8	✓	✓	
2970					
5070	5.0	73.5	✓	✓	
2990					
5070	17.9	60.6	✓	✓	
2980					
5080	14.3	64.2	✓	✓	
2990					
5080	20.3	58.2	✓	✓	
2970					
5080	8.5	70.0	✓	✓	
2980					
5090	15.0	63.5	✓	✓	
2990					
5090	22.4	56.1	✓	✓	
2970					
5090	9.5	69.0	✓	✓	
2980					
5106	15.9	62.6	✓	✓	

4900 10 20 30 40 50 60 70 80 90 5000  
10 20 30 40 50 60 70 80 90 5100

AXIS



3050

40

30

70

70

3000

90

80

70

2960

S

S

LL

2990	778.46				
5100		25.5	753.0	✓	✓
2970					
5100		10.6	679	✓	✓

	12.79	778.61		765.82	Hub at	South end Axis	N 3000 E 5000
2990							
4990			4.5	74.1	✓	✓	
2990							
4980			4.2	74.4	✓	✓	
2990							
4970			2.9	75.7	✓	✓	
2990							
4960			2.4	76.2	✓	✓	
2990							
4950			10.6	79.2	✓	✓	

March, 11<sup>th</sup> 1932  
Simpson - Level notes  
Kenden - Rod

clear and warm.

T.P.	12.37	790.28	0.70	777.91		
2990						
4940			8.4	81.9	✓	✓
2980						
4940			18	88.5	✓	✓
2990						
4930			6.3	84.0	✓	✓
2990						
4920			5.1	85.2	✓	✓
2990						
4910			4.0	86.3	✓	✓
2990						
4900			1.1	89.2	✓	✓
2990						
4890			0.8	89.5	✓	✓
2980						
5000			10.8	79.5	✓	✓
2970						
5000			2.9	87.4	✓	✓
2970						
4990			5.3	85.0	✓	✓
2980						
4990			11.3	79.0	✓	✓
2980						
4980			11.2	79.1	✓	✓
2970						
4980			7.6	85.7	✓	✓
2970						
4970			1.2	89.1	✓	✓
2980						
4970			9.4	80.9	✓	✓

by

	790.28			
2980				
4960	8.1	782.2	✓	✓
2970				
4960	1.0	89.3	✓	✓
2970				
4950	0.0	90.3	✓	✓
2980				
4950	6.1	84.2	✓	✓
2970				
5010	4.3	86.0	✓	✓
2960				
5020	0.9	89.4	✓	✓
2970				
5020	7.4	82.9	✓	✓
2970				
5020	7.6	82.7	✓	✓
2960				
5030	2.9	87.4	✓	✓
2960				
5040	4.0	86.3	✓	✓
2970				
5040	9.7	80.6	✓	✓
2970				
5050	9.3	81.0	✓	✓
2960				
5050	5.8	84.5	✓	✓
2950				
5050	1.3	89.0	✓	✓
2950				
5060	2.9	87.4	✓	✓
2960				
5060	8.1	82.2	✓	✓
2970				
5060	13.1	77.2	✓	✓
2960				
5070	10.5	79.8	✓	✓
2950				
5070	4.4	85.9	✓	✓
2950				
5080	7.5	82.8	✓	✓
2960				
5080	13.1	77.2	✓	✓
2960				
5090	15.4	74.9	✓	✓
2950				
5090	9.6	80.7	✓	✓
2950				
5100	10.0	80.3	✓	✓
2960				
5100	16.0	74.3	✓	✓

*L.S.*

2950		790.28			
5110			13.4	776.9	✓ ✓
2960					
5110			17.1	773.2	✓ ✓
	T.P.	12.46	802.16	0.58	789.70
2960					
5008			9.0	793.2	✓ ✓
2950					
5000			4.8	797.4	✓ ✓
2950					
5010			3.0	799.2	✓ ✓
2960					
5010			10.8	791.4	✓ ✓
2950					
5020			6.6	795.6	✓ ✓
2950					
5036			6.8	795.4	✓ ✓
2950					
5040			10.1	792.1	✓ ✓
2960					
4990			8.6	793.6	✓ ✓
2950					
4990			1.0	801.2	✓ ✓
2960					
4980			4.3	797.9	✓ ✓
2950					
4980			0.4	801.8	✓ ✓
2960					
4970			6.2	796.0	✓ ✓
2960					
4960			6.2	796.0	✓ ✓
2960					
4950			5.8	796.4	✓ ✓
2960					
4940			2.7	799.5	✓ ✓
2970					
4940			9.1	793.1	✓ ✓
2980					
4930			10.3	791.9	✓ ✓
2970					
4930			4.8	797.4	✓ ✓
2970					
4920			3.2	799.0	✓ ✓
2980					
4910			9.2	793.0	✓ ✓
2980					
4910			8.7	793.5	✓ ✓
2970					
4910			2.1	800.1	✓ ✓

2.1 ✓

2970						
4900		802.16	3.3	798.9	✓	✓
2980			7.1	795.1	✓	✓
4900						
2980			6.7	795.5	✓	✓
4890						
2970			1.9	800.3	✓	✓
4890						

T.P.	11.74	813.07	0.83	801.33		
2950			10.3	802.8	✓	✓
4970						
2950			10.4	802.7	✓	✓
4960						
2950			9.1	804.0	✓	✓
4950						
2950			6.9	806.2	✓	✓
4940						
2960			10.3	802.8	✓	✓
4930						
2950			5.5	807.6	✓	✓
4930						
2950			6.2	806.9	✓	✓
4920						
2960			9.5	803.6	✓	✓
4920						
2960			8.7	804.4	✓	✓
4910						
2950			3.4	809.7	✓	✓
4910						
2950			2.1	811.0	✓	✓
4900						
2960			6.8	806.3	✓	✓
4900						
2960			5.1	808.0	✓	✓
4890						
2950			1.0	812.1	✓	✓
4890						

T.P.	0.25	800.28	13.04	800.03		
------	------	--------	-------	--------	--	--

	1.14	788.47	12.95	787.33		
--	------	--------	-------	--------	--	--

	1.36	778.76	11.07	777.40		
--	------	--------	-------	--------	--	--

			12.96	765.80	= check on	Hub <sup>N3000</sup> E5000 El. 765.82
--	--	--	-------	--------	------------	---------------------------------------

d.f. ✓

Mar. 11, 1932

N 3780  
E 5000Converse - chief, Level  
Simpson - notes  
Louden - Rod

	3.18	565.92	562.74 = Hub		
3730					
5000			10.7	55.2	✓ ✓
3740					
5000			10.2	55.7	✓ ✓
3750					
5000			8.8	57.1	✓ ✓
3760					
5000			7.2	58.7	✓ ✓
3770					
5000			9.5	61.4	✓ ✓
3780					
5000			3.2	62.7	✓ ✓
3770					
4990			3.5	62.4	✓ ✓
3760					
4990			5.4	60.5	✓ ✓
3750					
4990			8.6	57.3	✓ ✓
3740					
4990			9.4	56.5	✓ ✓
3730					
4990			10.4	55.5	✓ ✓
3720					
4990			12.2	53.7	✓ ✓
3710					
4980			11.5	54.4	✓ ✓
3720					
4980			10.1	55.8	✓ ✓
3730					
4980			10.6	55.3	✓ ✓
3740					
4980			9.1	56.8	✓ ✓
3750					
4980			7.1	58.8	✓ ✓
3760					
4980			4.2	61.7	✓ ✓
3770					
4980			2.3	63.6	✓ ✓
3770					
4970			1.8	64.1	✓ ✓
3760					
4970			3.7	62.2	✓ ✓
3750					
4970			7.0	58.9	✓ ✓
3740					
4970			8.6	57.3	✓ ✓
3730					
4970			10.8	55.1	✓ ✓

K.S.

565.92					
3720					
4970		10.1	555.8	✓	✓
3710					
4970		11.6	54.3	✓	✓
3710					
4960		11.2	54.7	✓	✓
3720					
4960		10.7	55.2	✓	✓
3730					
4960		9.8	56.1	✓	✓
3740					
4960		7.8	58.1	✓	✓
3750					
4960		5.2	60.7	✓	✓
3760					
4960		3.7	62.2	✓	✓
3760					
4950		2.0	63.9	✓	✓
3750					
4950		3.4	62.5	✓	✓
3740					
4950		8.2	57.7	✓	✓
3730					
4950		10.0	55.9	✓	✓
3720					
4950		9.4	56.5	✓	✓
3710					
4950		10.6	55.3	✓	✓
3700					
4950		11.7	54.2	✓	✓
3700					
4940		11.8	54.1	✓	✓
3710					
4940		9.3	56.6	✓	✓
3720					
4940		9.5	56.4	✓	✓
3730					
4940		9.7	56.2	✓	✓
3740					
4940		5.6	60.3	✓	✓
3750					
4940		2.7	63.2	✓	✓
3760					
4940		1.4	64.5	✓	✓
3750					
4930		2.3	63.6	✓	✓
3740					
4930		4.8	61.1	✓	✓
3730					
4930		9.2	56.7	✓	✓

L.S. ✓



	565.92			
3720				
4930				
3710	9.7	556.2	✓	✓
4930	9.5	56.4	✓	✓
3700				
4930	10.5	55.4	✓	✓
3690				
4930	12.0	53.9	✓	✓
3690				
4920	11.1	54.8	✓	✓
3700				
4920	9.2	56.7	✓	✓
3710				
4920	9.6	56.3	✓	✓
3720				
4920	10.1	55.8	✓	✓
3730				
4920	7.5	58.4	✓	✓
3740				
4920	3.4	62.5	✓	✓
3750				
4920	2.0	63.9	✓	✓
3740				
4910	2.0	63.9	✓	✓
2730				
4910	5.0	60.9	✓	✓
3720				
4910	10.0	55.9	✓	✓
3710				
4910	9.1	56.8	✓	✓
3700				
4910	9.4	56.5	✓	✓
3690				
4910	10.6	55.3	✓	✓
3680				
4910	10.9	55.0	✓	✓
3670				
4910	11.6	54.3	✓	✓
3650				
4900	12.0	53.9	✓	✓
3660				
4900	11.4	54.5	✓	✓
3670				
4900	11.2	54.7	✓	✓
3680				
4900	10.8	55.1	✓	✓
3690				
4900	10.8	55.1	✓	✓
3700				
4900	9.8	56.1	✓	✓

del. ✓

565.92

3710				
4900	9.7	556.2	✓	✓
3720				
4900	10.1	55.8	✓	✓
3730				
4900	3.6	62.3	✓	✓
3740				
4900	1.9	64.0	✓	✓
3740				
4890	1.8	64.1	✓	✓
3730				
4890	2.6	63.3	✓	✓
3720				
4890	8.7	57.2	✓	✓
3710				
4890	10.1	55.8	✓	✓
3700				
4890	10.3	55.6	✓	✓
3690				
4890	11.0	54.9	✓	✓
3680				
4890	10.4	55.5	✓	✓
3670				
4890	11.1	54.8	✓	✓
3660				
4890	11.7	54.2	✓	✓
3650				
4890	11.3	54.6	✓	✓
3640				
4890	12.4	53.5	✓	✓
3630				
4880	12.4	53.5	✓	✓
3640				
4880	11.4	54.5	✓	✓
3650				
4880	11.1	54.8	✓	✓
3660				
4880	11.6	54.3	✓	✓
3670				
4880	10.6	55.3	✓	✓
3680				
4880	10.9	55.0	✓	✓
3690				
4880	11.2	54.7	✓	✓
3700				
4880	10.5	55.4	✓	✓
3710				
4880	9.5	56.4	✓	✓
3720				
4880	7.1	58.8	✓	✓

L.S. ✓

	565.92			
3730				
4880		2.2	563.7	✓ ✓
3740				
4880		2.0	563.9	✓ ✓
3740				
4870		1.6	64.3	✓ ✓
3730				
4870		2.2	63.7	✓ ✓
3720				
4870		5.4	60.5	✓ ✓
3710				
4870		9.3	56.6	✓ ✓
3700				
4870		10.7	55.2	✓ ✓
3690				
4870		10.7	55.2	✓ ✓
3680				
4870		11.0	54.9	✓ ✓
3670				
4870		10.0	55.9	✓ ✓
3660				
4870		11.2	54.7	✓ ✓
3650				
4870		11.6	54.3	✓ ✓
3640				
4870		11.2	54.7	✓ ✓
3630				
4870		12.5	53.4	✓ ✓
3620				
4860		12.7	53.2	✓ ✓
3630				
4860		11.6	54.3	✓ ✓
3640				
4860		11.4	54.5	✓ ✓
3650				
4860		11.4	54.5	✓ ✓
3660				
4860		11.1	54.8	✓ ✓
3670				
4860		10.2	55.7	✓ ✓
3680				
4860		10.5	55.4	✓ ✓
3690				
4860		10.5	55.4	✓ ✓
3700				
4860		10.5	55.4	✓ ✓
3710				
4860		7.7	58.2	✓ ✓
3720				
4860		4.7	61.2	✓ ✓



	565.92				
3730					
4860		2.3	563.6	✓	✓
3740					
4860		1.6	64.3	✓	✓
3740					
4850		1.5	64.4	✓	✓
3730					
4850		2.7	63.2	✓	✓
3720					
4850		4.8	61.1	✓	✓
3710					
4850		7.0	58.9	✓	✓
3700					
4850		11.0	54.9	✓	✓
3690					
4850		10.9	55.0	✓	✓
3680					
4850		11.6	54.3	✓	✓
3670					
4850		10.6	55.3	✓	✓
3660					
4850		10.6	55.3	✓	✓
3650					
4850		11.4	54.5	✓	✓
3640					
4850		11.7	54.2	✓	✓
3630					
4850		11.6	54.3	✓	✓
3620					
4850		12.4	53.5	✓	✓
3610					
4840		12.4	53.5	✓	✓
3620					
4840		11.6	54.3	✓	✓
3630					
4840		11.5	54.4	✓	✓
3640					
4840		11.8	54.1	✓	✓
3650					
4840		10.5	55.4	✓	✓
3660					
4840		11.1	54.8	✓	✓
3670					
4840		11.6	54.3	✓	✓
3680					
4840		10.6	55.3	✓	✓
3690					
4840		9.7	56.2	✓	✓
3700					
4840		9.8	56.1	✓	✓

*d.f.* ✓

565.92					
3710					
4840	6.5	559.4	✓	✓	
3720					
4840	4.7	61.2	✓	✓	
3730					
4830	2.7	63.2	✓	✓	
3720					
4830	4.8	61.1	✓	✓	
3710					
4830	6.8	59.1	✓	✓	
3700					
4830	9.8	56.1	✓	✓	
3690					
4830	9.2	56.7	✓	✓	
3680					
4830	10.6	55.3	✓	✓	
3670					
4830	11.5	54.4	✓	✓	
3660					
4830	11.0	54.9	✓	✓	
3650					
4830	10.7	55.2	✓	✓	
3640					
4830	12.0	53.9	✓	✓	
3630					
4830	11.5	54.4	✓	✓	
3620					
4830	11.5	54.4	✓	✓	
3610					
4830	12.6	53.3	✓	✓	
3600					
4820	12.3	53.6	✓	✓	
3610					
4820	12.3	53.6	✓	✓	
3620					
4820	11.6	54.3	✓	✓	
3630					
4820	11.6	54.3	✓	✓	
3640					
4820	12.0	53.9	✓	✓	
3650					
4820	11.0	54.9	✓	✓	
3660					
4820	11.1	54.8	✓	✓	
3670					
4820	10.8	55.1	✓	✓	
3680					
4820	9.6	56.3	✓	✓	
3690					
4820	9.6	56.3	✓	✓	

L.S.

565.92

3700				
4820				
3710	10.0	555.9	✓	✓
4820	6.2	59.7	✓	✓
3720				
4820	4.5	61.4	✓	✓
3730				
4820	2.8	63.1	✓	✓
3730				
4810	3.4	62.5	✓	✓
3720				
4810	4.8	61.1	✓	✓
3710				
4810	5.6	60.3	✓	✓
3700				
4810	9.3	56.6	✓	✓
3690				
4810	9.7	56.2	✓	✓
3680				
4810	9.8	56.1	✓	✓
3670				
4810	10.4	55.5	✓	✓
3660				
4810	11.2	54.7	✓	✓
3650				
4810	11.3	54.6	✓	✓
3640				
4810	11.7	54.2	✓	✓
3630				
4810	11.6	54.3	✓	✓
3620				
4810	11.9	54.0	✓	✓
3610				
4810	11.9	54.0	✓	✓
3600				
4810	12.6	53.3	✓	✓
3600				
4820	12.6	53.3	✓	✓
3610				
4800	11.9	54.0	✓	✓
3620				
4800	11.9	54.0	✓	✓
3630				
4800	11.8	54.1	✓	✓
3640				
4800	11.8	54.1	✓	✓
3650				
4800	10.3	55.6	✓	✓
3660				
4800	11.5	54.4	✓	✓

L.S. ✓

56592

3670					
4800	10.3	555.6	✓	✓	
3680					
4800	9.3	56.6	✓	✓	
3690					
4800	8.6	57.3	✓	✓	
3700					
4800	7.5	58.4	✓	✓	
3710					
4800	5.8	60.1	✓	✓	
3720					
4800	5.3	60.6	✓	✓	
3730					
4800	3.9	62.0	✓	✓	
3730					
4790	3.7	62.2	✓	✓	
3720					
4790	5.7	60.2	✓	✓	
3710					
4790	6.0	59.9	✓	✓	
3700					
4790	6.6	59.3	✓	✓	
3690					
4790	6.8	59.1	✓	✓	
3680					
4790	8.0	57.9	✓	✓	
3670					
4790	9.2	56.7	✓	✓	
3660					
4790	11.8	54.1	✓	✓	
3650					
4790	10.2	55.7	✓	✓	
3640					
4790	12.2	53.7	✓	✓	
3630					
4790	11.7	54.2	✓	✓	
3620					
4790	11.7	54.2	✓	✓	
3610					
4790	12.2	53.7	✓	✓	
3610					
4780	12.3	53.6	✓	✓	
3620					
4780	11.5	54.4	✓	✓	
3630					
4780	12.2	53.7	✓	✓	
3640					
4780	11.4	54.5	✓	✓	
3650					
4780	11.6	54.3	✓	✓	

Lil. ✓

565.92

3660				
4780	11.4	554.5	✓	✓
3670				
4780	8.6	57.3	✓	✓
3680				
4780	7.1	58.8	✓	✓
3690				
4780	6.0	59.9	✓	✓
3700				
4780	6.7	59.2	✓	✓
3710				
4780	6.1	59.8	✓	✓
3720				
4780	6.0	59.9	✓	✓
3730				
4780	3.6	62.3	✓	✓
3740				
4780	2.4	63.5	✓	✓
3740				
4770	2.2	63.7	✓	✓
3730				
4770	3.8	62.1	✓	✓
3720				
4770	6.1	59.8	✓	✓
3710				
4770	6.1	59.8	✓	✓
3700				
4770	6.3	59.6	✓	✓
3690				
4770	5.7	60.2	✓	✓
3680				
4770	6.6	59.3	✓	✓
3670				
4770	8.2	57.7	✓	✓
3660				
4770	10.1	55.8	✓	✓
3650				
4770	11.0	54.9	✓	✓
3640				
4770	12.1	53.8	✓	✓
3630				
4770	12.3	53.6	✓	✓
3620				
4770	11.4	54.5	✓	✓
3610				
4770	11.8	54.1	✓	✓
3600				
4770	12.6	53.3	✓	✓
3600				
4760	12.5	53.4	✓	✓

d.f.



565.92

3610				
4760	11.8	554.1	✓	✓
3620				
4760	11.8	54.1	✓	✓
3630				
4760	12.3	53.6	✓	✓
3640				
4760	11.6	54.3	✓	✓
3650				
4760	10.8	55.1	✓	✓
3660				
4760	8.5	57.4	✓	✓
3670				
4760	7.5	58.4	✓	✓
3680				
4760	6.5	59.4	✓	✓
3690				
4760	5.8	60.1	✓	✓
3700				
4760	6.0	59.9	✓	✓
3710				
4760	6.1	59.8	✓	✓
3720				
4760	6.2	59.7	✓	✓
3730				
4760	4.1	61.8	✓	✓
3740				
4760	2.4	63.5	✓	✓
3740				
4750	2.4	63.5	✓	✓
3730				
4750	5.5	60.4	✓	✓
3720				
4750	6.3	59.6	✓	✓
3710				
4750	6.2	59.7	✓	✓
3700				
4750	6.0	59.9	✓	✓
3690				
4750	5.8	60.1	✓	✓
3680				
4750	6.5	59.4	✓	✓
3670				
4750	7.5	58.4	✓	✓
3660				
4750	8.2	57.7	✓	✓
3650				
4750	9.2	56.7	✓	✓
3640				
4750	11.5	54.4	✓	✓

2.4 ✓

565.92

3630				
4750	11.9	554.0	✓	✓
3620				
4750	12.3	53.6	✓	✓
3610				
4750	11.9	54.0	✓	✓
3600				
4750	12.8	53.1	✓	✓
3600				
4740	12.6	53.3	✓	✓
3610				
4740	11.8	54.1	✓	✓
3620				
4740	12.0	53.9	✓	✓
3630				
4740	11.6	54.3	✓	✓
3640				
4740	10.7	55.2	✓	✓
3650				
4740	9.4	56.5	✓	✓
3660				
4740	8.2	57.7	✓	✓
3670				
4740	6.9	59.0	✓	✓
3680				
4740	6.4	59.5	✓	✓
3690				
4740	5.8	60.1	✓	✓
3700				
4740	5.9	60.0	✓	✓
3710				
4740	6.2	59.7	✓	✓
3720				
4740	6.3	59.6	✓	✓
3730				
4740	5.8	60.1	✓	✓
3740				
4740	2.8	63.1	✓	✓
3750				
4740	1.3	64.6	✓	✓
3750				
4730	1.9	64.0	✓	✓
3740				
4730	4.0	61.9	✓	✓
3730				
4730	6.1	59.8	✓	✓
3720				
4730	6.3	59.6	✓	✓
3710				
4730	6.2	59.7	✓	✓

L.S.

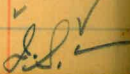
565.92

3700					
4730	5.8	560.1	✓	✓	
3690					
4730	5.6	60.3	✓	✓	
3680					
4730	6.0	59.9	✓	✓	
3670					
4730	7.0	58.9	✓	✓	
3660					
4730	8.2	57.7	✓	✓	
3650					
4730	8.4	57.5	✓	✓	
3640					
4730	10.3	55.6	✓	✓	
3630					
4730	11.5	54.4	✓	✓	
3620					
4730	12.0	53.9	✓	✓	
3610					
4730	12.6	53.3	✓	✓	
3610					
4720	12.6	53.3	✓	✓	
3620					
4720	11.9	54.0	✓	✓	
3630					
4720	10.6	55.3	✓	✓	
3640					
4720	10.4	55.5	✓	✓	
3650					
4720	7.7	58.2	✓	✓	
3660					
4720	8.1	57.8	✓	✓	
3670					
4720	7.0	58.9	✓	✓	
3680					
4720	6.0	59.9	✓	✓	
3690					
4720	5.8	60.1	✓	✓	
3700					
4720	5.9	60.0	✓	✓	
3710					
4720	6.2	59.7	✓	✓	
3720					
4720	6.2	59.7	✓	✓	
3730					
4720	6.3	59.6	✓	✓	
3740					
4720	3.4	62.5	✓	✓	
3740					
4710	3.6	62.3	✓	✓	

Lif. ✓

565.92

3730				
4710	6.1	559.8	✓	✓
3720				
4710	6.2	59.7	✓	✓
3710				
4710	6.2	59.7	✓	✓
3700				
4710	6.2	59.7	✓	✓
3690				
4710	5.5	60.4	✓	✓
3680				
4710	5.4	60.5	✓	✓
3670				
4710	7.0	58.9	✓	✓
3660				
4710	8.2	57.7	✓	✓
3650				
4710	8.4	57.5	✓	✓
3640				
4710	10.1	55.8	✓	✓
3630				
4710	10.7	55.2	✓	✓
3620				
4710	11.5	54.4	✓	✓
3610				
4710	12.7	53.2	✓	✓
3610				
4700	12.6	53.3	✓	✓
3620				
4700	11.5	54.4	✓	✓
3630				
4700	10.7	55.2	✓	✓
3640				
4700	8.7	57.2	✓	✓
3650				
4700	8.3	57.6	✓	✓
3660				
4700	8.0	57.9	✓	✓
3670				
4700	7.0	58.9	✓	✓
3680				
4700	5.4	60.5	✓	✓
3690				
4700	5.8	60.1	✓	✓
3700				
4700	6.1	59.8	✓	✓
3710				
4700	6.4	59.5	✓	✓
3720				
4700	6.2	59.7	✓	✓



565.92

3730				
4700	6.3	559.6	✓	✓
3740				
4700	5.4	60.5	✓	✓
3740				
4690	5.8	60.1	✓	✓
3730				
4690	6.5	59.4	✓	✓
3720				
4690	6.2	59.7	✓	✓
3710				
4690	6.3	59.6	✓	✓
3700				
4690	6.1	59.8	✓	✓
3690				
4690	6.0	59.9	✓	✓
3680				
4690	6.5	59.4	✓	✓
3670				
4690	7.4	58.5	✓	✓
3660				
4690	7.6	58.3	✓	✓
3650				
4690	8.1	57.8	✓	✓
3640				
4690	8.5	57.4	✓	✓
3630				
4690	10.8	55.1	✓	✓
3620				
4690	11.2	54.7	✓	✓
3610				
4690	12.5	53.4	✓	✓
3600				
4690	13.2	52.7	✓	✓
3600				
4680	12.8	53.1	✓	✓
3610				
4680	12.3	53.6	✓	✓
3620				
4680	11.1	54.8	✓	✓
3630				
4680	10.3	55.6	✓	✓
3640				
4680	8.3	57.6	✓	✓
3650				
4680	7.5	58.4	✓	✓
3660				
4680	7.5	58.4	✓	✓
3670				
4680	7.0	58.9	✓	✓

L.S.

565.92

3680				
4680	6.5	559.4	✓	✓
3690				
4680	5.7	60.2	✓	✓
3700				
4680	6.0	59.9	✓	✓
3710				
4680	6.2	59.7	✓	✓
3720				
4680	6.2	59.7	✓	✓
3730				
4680	6.3	59.6	✓	✓
3740				
4680	5.9	60.0	✓	✓
3740				
4670	5.5	60.4	✓	✓
3730				
4670	6.4	59.5	✓	✓
3720				
4670	6.2	59.7	✓	✓
3710				
4670	6.2	59.7	✓	✓
3700				
4670	5.9	60.0	✓	✓
3690				
4670	5.8	60.1	✓	✓
3680				
4670	6.2	59.7	✓	✓
3670				
4670	6.7	59.2	✓	✓
3660				
4670	7.5	58.4	✓	✓
3650				
4670	7.5	58.4	✓	✓
3640				
4670	7.8	58.1	✓	✓
3630				
4670	10.2	55.7	✓	✓
3620				
4670	11.2	54.7	✓	✓
3610				
4670	12.5	53.4	✓	✓
3600				
4670	13.1	52.8	✓	✓
3600				
4660	13.0	52.9	✓	✓
3610				
4660	12.3	53.6	✓	✓
3620				
4660	11.3	54.6	✓	✓

T.S. ←

		565.92				
3630			8.2	557.7	✓	✓
4660						
3640			7.9	58.0	✓	✓
4660						
3650			7.8	58.1	✓	✓
4660						
3660			7.2	58.7	✓	✓
4660						
3670			6.8	59.1	✓	✓
4660						
3680			6.3	59.6	✓	✓
4660						
3690			5.8	60.1	✓	✓
4660						
3700			5.9	60.0	✓	✓
4660						
3710			6.0	59.9	✓	✓
4660						
3720			6.2	59.7	✓	✓
4660						
3730			6.4	59.5	✓	✓
4660						
3740			6.1	59.8	✓	✓
4660						
3750			3.8	62.1	✓	✓
4660						
T.P.	4.86	565.05	5.73	560.19		
3760			1.3	63.7	✓	✓
4650						
3750			4.0	61.0	✓	✓
4650						
3740			5.3	59.7	✓	✓
4650						
3730			5.4	59.6	✓	✓
4650						
3720			5.3	59.7	✓	✓
4650						
3710			5.1	59.9	✓	✓
4650						
3700			4.9	60.1	✓	✓
4650						
3690			5.0	60.0	✓	✓
4650						
3680			5.3	59.7	✓	✓
4650						
3670			5.7	59.3	✓	✓
4650						
3660			6.4	58.6	✓	✓
4650						

*J.L.*

3650	565.05				
4650		6.7	558.3	✓	✓
3640					
4650		7.2	57.8	✓	✓
3630					
4650		7.7	57.3	✓	✓
3620					
4650		10.4	54.6	✓	✓
3610					
4650		11.7	53.3	✓	✓
3610					
4640		11.8	53.2	✓	✓
3620					
4640		10.4	54.6	✓	✓
3630					
4640		8.1	56.9	✓	✓
3640					
4640		7.0	58.0	✓	✓
3650					
4640		6.5	58.5	✓	✓
3660					
4640		6.1	58.9	✓	✓
3670					
4640		5.5	59.5	✓	✓
3680					
4640		5.2	59.8	✓	✓
3690					
4640		4.8	60.2	✓	✓
3700					
4610		5.0	60.0	✓	✓
3710					
4610		5.0	60.0	✓	✓
3720					
4610		5.3	59.7	✓	✓
3730					
4640		5.5	59.5	✓	✓
3740					
4640		5.3	59.7	✓	✓
3750					
4640		3.8	61.2	✓	✓
3760					
4640		1.7	63.3	✓	✓
3770					
4640		0.8	64.2	✓	✓
3770					
4630		1.1	63.9	✓	✓
3760					
4630		2.0	63.0	✓	✓
3750					
4630		4.1	60.9	✓	✓

2.8



565.05

3740					
4630	5.4	559.6	✓	✓	
3730					
4630	5.3	59.7	✓	✓	
3720					
4630	5.2	59.8	✓	✓	
3710					
4630	5.0	60.0	✓	✓	
3700					
4630	4.9	60.1	✓	✓	
3690					
4630	4.9	60.1	✓	✓	
3680					
4630	5.2	59.8	✓	✓	
3670					
4630	5.7	59.3	✓	✓	
3660					
4630	6.1	58.9	✓	✓	
3650					
4630	6.6	58.4	✓	✓	
3640					
4630	6.7	58.3	✓	✓	
3630					
4630	7.3	57.7	✓	✓	
3620					
4630	10.7	54.3	✓	✓	
3610					
4630	11.3	53.7	✓	✓	
3600					
4630	12.3	52.7	✓	✓	
3600					
4620	12.4	52.6	✓	✓	
3610					
4620	11.4	53.6	✓	✓	
3620					
4620	10.7	54.3	✓	✓	
3630					
4620	6.6	58.4	✓	✓	
3640					
4620	7.1	57.9	✓	✓	
3650					
4620	6.2	58.8	✓	✓	
3660					
4620	6.0	59.0	✓	✓	
3670					
4620	5.5	59.5	✓	✓	
3680					
4620	4.9	60.1	✓	✓	
3690					
4620	4.7	60.3	✓	✓	

d.s.

565.05

3610				
4600	12.5	552.5	✓	✓
3620				
4600	10.7	54.3	✓	✓
3630				
4600	7.9	57.1	✓	✓
3640				
4600	6.5	58.5	✓	✓
3650				
4600	6.1	58.9	✓	✓
3660				
4600	5.7	59.3	✓	✓
3670				
4600	5.2	59.8	✓	✓
3680				
4600	4.8	60.2	✓	✓
3690				
4600	4.7	60.3	✓	✓
3700				
4600	4.7	60.3	✓	✓
3710				
4600	5.0	60.0	✓	✓
3720				
4600	4.9	60.1	✓	✓
3730				
4600	5.0	60.0	✓	✓
3740				
4600	5.0	60.0	✓	✓
3750				
4600	4.4	60.6	✓	✓
3760				
4600	2.8	62.2	✓	✓
3770				
4600	1.6	63.4	✓	✓
3780				
4600	1.2	63.8	✓	✓
3780				
4590	1.3	63.7	✓	✓
3770				
4590	1.8	63.2	✓	✓
3760				
4590	2.6	62.4	✓	✓
3750				
4590	4.9	60.1	✓	✓
3740				
4590	5.0	60.0	✓	✓
3730				
4590	4.9	60.1	✓	✓
3720				
4590	4.9	60.1	✓	✓

Dis. ✓  
 ✓

565.05

3710				
<del>4590</del>	5.0	560.0	✓	✓
3700				
<del>4590</del>	4.9	60.1	✓	✓
3690				
<del>4590</del>	4.8	60.2	✓	✓
3680				
<del>4590</del>	5.0	60.0	✓	✓
3670				
<del>4590</del>	5.2	59.8	✓	✓
3660				
<del>4590</del>	5.6	59.4	✓	✓
3650				
<del>4590</del>	6.0	59.0	✓	✓
3640				
<del>4590</del>	6.2	58.8	✓	✓
3630				
<del>4590</del>	7.8	57.2	✓	✓
3620				
<del>4590</del>	11.0	54.0	✓	✓
3610				
<del>4590</del>	12.6	52.4	✓	✓
3610				
<del>4580</del>	12.5	52.5	✓	✓
3620				
<del>4580</del>	11.3	53.7	✓	✓
3630				
<del>4580</del>	7.4	57.6	✓	✓
3640				
<del>4580</del>	6.0	59.0	✓	✓
3650				
<del>4580</del>	5.8	59.2	✓	✓
3660				
<del>4580</del>	5.5	59.5	✓	✓
3670				
<del>4580</del>	5.2	59.8	✓	✓
3680				
<del>4580</del>	5.0	60.0	✓	✓
3690				
<del>4580</del>	4.7	60.3	✓	✓
3700				
<del>4580</del>	4.7	60.3	✓	✓
3710				
<del>4580</del>	5.0	60.0	✓	✓
3720				
<del>4580</del>	4.8	60.2	✓	✓
3730				
<del>4580</del>	4.8	60.2	✓	✓
3740				
<del>4580</del>	5.0	60.0	✓	✓

D.L. ✓

	565.05			
3750				
4580		5.0	56.0	✓ ✓
3760				
4580		3.0	62.0	✓ ✓
3770				
4580		1.8	63.2	✓ ✓
3780				
4580		1.4	63.6	✓ ✓
3790				
4580		0.0	65.0	✓ ✓
3790				
4570		0.7	64.3	✓ ✓
3780				
4570		1.6	63.4	✓ ✓
3770				
4570		1.7	63.3	✓ ✓
3760				
4570		3.1	61.9	✓ ✓
3750				
4570		4.9	60.1	✓ ✓
3740				
4570		4.9	60.1	✓ ✓
3730				
4570		4.6	60.4	✓ ✓
3720				
4570		4.8	60.2	✓ ✓
3710				
4570		5.0	60.0	✓ ✓
3700				
4570		5.0	60.0	✓ ✓
3690				
4570		4.7	60.3	✓ ✓
3680				
4570		5.1	59.9	✓ ✓
3670				
4570		5.2	59.8	✓ ✓
3660				
4570		5.6	59.4	✓ ✓
3650				
4570		6.0	59.0	✓ ✓
3640				
4570		5.8	59.2	✓ ✓
3630				
4570		8.6	56.4	✓ ✓
3620				
4570		11.5	53.5	✓ ✓
3610				
4570		12.8	52.2	✓ ✓
3610				
4560		12.8	52.2	✓ ✓

L.S.

	565.05				
3620					
4560		12.0	553.0	✓	✓
3630					
4560		8.6	56.4	✓	✓
3640					
4560		6.0	59.0	✓	✓
3650					
4560		5.9	59.1	✓	✓
3660					
4560		5.7	59.3	✓	✓
3670					
4560		5.0	60.0	✓	✓
3680					
4560		4.8	60.2	✓	✓
3690					
4560		4.7	60.3	✓	✓
3700					
4560		5.2	59.8	✓	✓
3710					
4560		5.1	59.9	✓	✓
3720					
4560		4.5	60.5	✓	✓
3730					
4560		4.7	60.3	✓	✓
3740					
4560		4.7	60.3	✓	✓
3750					
4560		5.0	60.0	✓	✓
3760					
4560		3.7	61.3	✓	✓
3770					
4560		1.7	63.3	✓	✓
3780					
4560		1.7	63.3	✓	✓
3790					
4560		0.6	64.4	✓	✓
3790					
4550		0.5	64.5	✓	✓
3780					
4550		1.5	63.5	✓	✓
3770					
4550		1.7	63.3	✓	✓
3760					
4550		4.0	61.0	✓	✓
3750					
4550		4.8	60.2	✓	✓
3740					
4550		4.7	60.3	✓	✓
3730					
4550		4.4	60.6	✓	✓

dy. ←

565.05

3720				
4550	4.6	560.4	✓	✓
3710	5.0	60.0	✓	✓
4550	5.0	60.0	✓	✓
3700	4.8	60.2	✓	✓
4550	4.9	60.1	✓	✓
3690	5.1	59.9	✓	✓
4550	5.3	59.7	✓	✓
3680	5.8	59.2	✓	✓
4550	6.3	58.7	✓	✓
3670	10.0	55.0	✓	✓
4550	12.0	53.0	✓	✓
3660	12.8	52.2	✓	✓
4550	12.8	52.2	✓	✓
3650	12.1	52.9	✓	✓
4550	10.2	54.8	✓	✓
3640	6.4	58.6	✓	✓
4540	5.8	59.2	✓	✓
3650	5.4	59.6	✓	✓
4540	5.0	60.0	✓	✓
3660	4.9	60.1	✓	✓
4540	4.7	60.3	✓	✓
3670	4.9	60.1	✓	✓
4540	4.7	60.3	✓	✓
3680	4.5	60.5	✓	✓
4540	4.4	60.6	✓	✓
3690				
4540				
3700				
4540				
3710				
4540				
3720				
4540				
3730				
4540				

d.s. ✓

565.05

3740				
4540	4.7	560.3	✓	✓
3750				
4540	4.8	60.2	✓	✓
3760				
4540	4.5	60.5	✓	✓
3770				
4540	2.3	62.7	✓	✓
3780				
4540	1.7	63.3	✓	✓
3790				
4540	1.0	64.0	✓	✓
3790				
4530	1.5	63.5	✓	✓
3780				
4530	2.5	62.5	✓	✓
3770				
4530	2.5	62.5	✓	✓
3760				
4530	4.6	60.4	✓	✓
3750				
4530	4.9	60.1	✓	✓
3740				
4530	4.6	60.4	✓	✓
3730				
4530	4.4	60.6	✓	✓
3720				
4530	4.2	60.8	✓	✓
3710				
4530	4.5	60.5	✓	✓
3700				
4530	4.7	60.3	✓	✓
3690				
4530	4.6	60.4	✓	✓
3680				
4530	4.8	60.2	✓	✓
3670				
4530	4.8	60.2	✓	✓
3660				
4530	5.1	59.9	✓	✓
3650				
4530	5.8	59.2	✓	✓
3640				
4530	6.5	58.5	✓	✓
3630				
4530	10.3	54.7	✓	✓
3620				
4530	12.1	52.9	✓	✓
3610				
4530	13.0	52.0	✓	✓

L.S.

565.05

3610				
4520	13.0	552.0	✓	✓
3620				
4520	12.3	52.7	✓	✓
3630				
4520	9.7	55.3	✓	✓
3640				
4520	6.8	58.2	✓	✓
3650				
4520	5.0	60.0	✓	✓
3660				
4520	5.3	59.7	✓	✓
3670				
4520	5.1	59.9	✓	✓
3680				
4520	4.8	60.2	✓	✓
3690				
4520	4.8	60.2	✓	✓
3700				
4520	4.8	60.2	✓	✓
3710				
4520	4.3	60.7	✓	✓
3720				
4520	4.5	60.5	✓	✓
3730				
4520	4.3	60.7	✓	✓
3740				
4520	4.5	60.5	✓	✓
3750				
4520	4.6	60.4	✓	✓
3760				
4520	4.8	60.2	✓	✓
3770				
4520	2.3	62.7	✓	✓
3780				
4520	2.0	63.0	✓	✓
3790				
4520	2.6	62.4	✓	✓
3790				
4510	2.2	62.8	✓	✓
3780				
4510	1.8	63.2	✓	✓
3770				
4510	2.7	62.3	✓	✓
3760				
4510	4.8	60.2	✓	✓
3750				
4510	4.6	60.4	✓	✓
3740				
4510	4.6	60.4	✓	✓

2.5 ✓



565.05

3730				
4510	4.4	560.6	✓	✓
3720				
4510	4.2	60.8	✓	✓
3710				
4510	4.3	60.7	✓	✓
3700				
4510	4.6	60.4	✓	✓
3690				
4510	4.5	60.5	✓	✓
3680				
4510	5.0	60.0	✓	✓
3670				
4510	5.0	60.0	✓	✓
3660				
4510	5.4	59.6	✓	✓
3650				
4510	6.1	58.9	✓	✓
3640				
4510	6.8	58.2	✓	✓
3630				
4510	10.4	54.6	✓	✓
3620				
4510	12.8	52.2	✓	✓
3620				
4500	12.8	52.2	✓	✓
3630				
4500	9.8	55.2	✓	✓
3640				
4500	6.6	58.4	✓	✓
3650				
4500	5.7	59.3	✓	✓
3660				
4500	5.5	59.5	✓	✓
3670				
4500	5.1	59.9	✓	✓
3680				
4500	4.7	60.3	✓	✓
3690				
4500	4.6	60.4	✓	✓
3700				
4500	4.4	60.6	✓	✓
3710				
4500	4.2	60.8	✓	✓
3720				
4500	4.0	61.0	✓	✓
3730				
4500	4.4	60.6	✓	✓
3740				
4500	4.5	60.5	✓	✓

565.05

3750					
4500	4.4	560.6	✓	✓	
3760					
4500	4.6	60.4	✓	✓	
3770					
4500	2.4	62.6	✓	✓	
3780					
4500	1.9	63.1	✓	✓	
3790					
4500	1.8	63.2	✓	✓	
3800					
4500	1.3	63.7	✓	✓	
3810					
4490	+0.2	65.2	✓	✓	
3800					
4490	1.7	63.3	✓	✓	
3790					
4490	2.0	63.0	✓	✓	
3780					
4490	1.9	63.1	✓	✓	
3770					
4490	2.8	62.2	✓	✓	
3760					
4490	4.2	60.8	✓	✓	
3750					
4490	4.5	60.5	✓	✓	
3740					
4490	4.5	60.5	✓	✓	
3730					
4490	4.2	60.8	✓	✓	
	4.16	560.89	= check	on B.M. N-1	Elev. 560.875
3720					
4490	4.3	60.7	✓	✓	
3710					
4490	4.2	60.8	✓	✓	
3700					
4490	4.3	60.7	✓	✓	
3690					
4490	4.5	60.5	✓	✓	
3680					
4490	4.4	60.6	✓	✓	
3670					
4490	5.0	60.0	✓	✓	
3660					
4490	5.4	59.6	✓	✓	
3650					
4490	5.9	59.1	✓	✓	
3640					
4490	6.4	58.6	✓	✓	

L.S. ✓

	565.05				
3630 4490		10.4	554.6	✓	✓
3620 4490		12.8	52.2	✓	✓
3620 4480		13.0	52.0	✓	✓
3630 4480		10.5	54.5	✓	✓
3640 4480		6.3	58.7	✓	✓
3650 4480		5.8	59.2	✓	✓
3660 4480		5.2	59.8	✓	✓
3670 4480		5.0	60.0	✓	✓
3680 4480		4.3	60.7	✓	✓
3690 4480		4.5	60.5	✓	✓
3700 4480		4.3	60.7	✓	✓
3710 4480		4.2	60.8	✓	✓
3720 4480		4.3	60.7	✓	✓
3730 4480		4.4	60.6	✓	✓
3740 4480		4.6	60.4	✓	✓
3750 4480		4.5	60.5	✓	✓
3760 4480		4.0	61.0	✓	✓
3770 4480		3.3	61.7	✓	✓
3780 4480		2.0	63.0	✓	✓
3790 4480		2.0	63.0	✓	✓
3800 4480		1.8	63.2	✓	✓
3810 4480		0.4	64.6	✓	✓
3810 4470		1.4	63.6	✓	✓
3800 4470		1.9	63.1	✓	✓
3790 4470		2.1	62.9	✓	✓

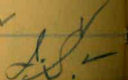
28. ✓

56505					
3780					
4470	2.4	562.6	✓	✓	
3770					
4470	3.5	61.5	✓	✓	
3760					
4470	3.9	61.1	✓	✓	
3750					
4470	4.0	61.0	✓	✓	
3740					
4470	4.5	60.5	✓	✓	
3730					
4470	4.6	60.4	✓	✓	
3720					
4470	4.2	60.8	✓	✓	
3710					
4470	4.2	60.8	✓	✓	
3700					
4470	4.1	60.9	✓	✓	
3690					
4470	4.4	60.6	✓	✓	
3680					
4470	4.8	60.2	✓	✓	
3670					
4470	4.8	60.2	✓	✓	
3660					
4470	5.4	59.6	✓	✓	
3650					
4470	5.9	59.1	✓	✓	
3640					
4470	6.4	58.6	✓	✓	
3630					
4470	10.4	54.6	✓	✓	
3620					
4470	13.2	51.8	✓	✓	
3620					
4460	13.1	51.9	✓	✓	
3630					
4460	10.5	54.5	✓	✓	
3640					
4460	7.6	57.4	✓	✓	
3650					
4460	5.7	59.3	✓	✓	
3660					
4460	5.2	59.8	✓	✓	
3670					
4460	5.0	60.0	✓	✓	
3680					
4460	4.7	60.3	✓	✓	
3690					
4460	4.3	60.7	✓	✓	

*Li.*

565.05

3700				
4460	4.3	560.7	✓	✓
3710				
4460	4.3	60.7	✓	✓
3720				
4460	4.3	60.7	✓	✓
3730				
4460	4.7	60.3	✓	✓
3740				
4460	4.3	60.7	✓	✓
3750				
4460	3.8	61.2	✓	✓
3760				
4460	3.5	61.5	✓	✓
3770				
4460	3.5	61.5	✓	✓
3780				
4460	2.7	62.3	✓	✓ ←
3790				
4460	2.1	62.9	✓	✓
3800				
4460	1.8	63.2	✓	✓
3810				
4460	1.6	63.4	✓	✓
3820				
4460	0.2	64.8	✓	✓
3820				
4450	1.0	64.0	✓	✓
3810				
4450	1.7	63.3	✓	✓
3800				
4450	1.9	63.1	✓	✓
3790				
4450	2.3	62.7	✓	✓
3780				
4450	3.0	62.0	✓	✓
3770				
4450	3.1	61.9	✓	✓
3760				
4450	3.4	61.6	✓	✓
3750				
4450	3.7	61.3	✓	✓
3740				
4450	3.8	61.2	✓	✓
3730				
4450	4.6	60.4	✓	✓
3720				
4450	4.5	60.5	✓	✓
3710				
4450	4.5	60.5	✓	✓



565.05

3700				
4450	4.3	560.7	✓	✓
3690				
4450	4.5	60.5	✓	✓
3680				
4450	4.6	60.4	✓	✓
3670				
4450	4.9	60.1	✓	✓
3660				
4450	5.0	60.0	✓	✓
3650				
4450	6.0	59.0	✓	✓
3640				
4450	8.1	56.9	✓	✓
3630				
4450	10.7	54.3	✓	✓
3620				
4450	13.2	51.8	✓	✓
3620				
4440	13.2	51.8	✓	✓
3620				
4440	11.0	54.0	✓	✓
3640				
4440	8.4	56.6	✓	✓
3650				
4440	6.0	59.0	✓	✓
3660				
4440	5.4	59.6	✓	✓
3670				
4440	4.7	60.3	✓	✓
3680				
4440	4.7	60.3	✓	✓
3690				
4440	4.5	60.5	✓	✓
3700				
4440	4.5	60.5	✓	✓
3710				
4440	4.6	60.4	✓	✓
3720				
4440	4.6	60.4	✓	✓
3730				
4440	4.4	60.6	✓	✓
3740				
4440	3.8	61.2	✓	✓
3750				
4440	3.7	61.3	✓	✓
3760				
4440	3.4	61.6	✓	✓
3770				
4440	3.0	62.0	✓	✓

L.S. ✓

565.05

3780				
4440	2.9	562.1	✓	✓
3790				
4440	2.5	62.5	✓	✓
3800				
4440	2.0	63.0	✓	✓
3810				
4440	1.8	63.2	✓	✓
3820				
4440	1.3	63.7	✓	✓
3830				
4440	+0.1	65.1	✓	✓
3830				
4430	0.2	64.8	✓	✓
3820.				
4430	1.1	63.9	✓	✓
3810				
4430	1.4	63.6	✓	✓
3800				
4430	1.8	63.2	✓	✓
2790				
4430	2.2	62.8	✓	✓
3780				
4430	2.6	62.4	✓	✓ ←
3770				
4430	3.1	61.9	✓	✓
3760				
4430	3.3	61.7	✓	✓
3750				
4430	3.7	61.3	✓	✓
3740				
4430	4.0	61.0	✓	✓
3730				
4430	4.3	60.7	✓	✓
3720				
4430	4.5	60.5	✓	✓
3710				
4430	4.9	60.1	✓	✓
3700				
4430	4.6	60.4	✓	✓
3690				
4430	5.1	59.9	✓	✓
3680				
4430	5.0	60.0	✓	✓
3670				
4430	5.2	59.8	✓	✓
3660				
4430	5.3	59.7	✓	✓
3650				
4430	6.7	58.3	✓	✓

A.S. ←

565.05

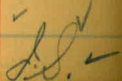
3640				
4430	8.5	556.5	✓	✓
3630				
4430	11.2	53.8	✓	✓
3620				
4420	13.2	51.8	✓	✓
3620				
4420	13.4	51.6	✓	✓
3630				
4420	11.7	53.3	✓	✓
3640				
4420	9.0	51.3	✓	✓
3650				
4420	7.0	56.0	✓	✓
3660				
4420	5.2	58.0	✓	✓
3670				
4420	5.6	59.8	✓	✓
3680				
4420	5.5	59.4	✓	✓
3690				
4420	5.0	59.5	✓	✓
3700				
4420	5.0	60.0	✓	✓
3710				
4420	5.6	59.4	✓	✓
3720				
4420	5.0	60.0	✓	✓
3730				
4420	4.4	60.6	✓	✓
3740				
4420	4.0	61.0	✓	✓
3750				
4420	3.8	61.2	✓	✓
3760				
4420	3.6	61.4	✓	✓
3770				
4420	3.3	61.7	✓	✓
3780				
4420	2.9	62.1	✓	✓
3790				
4420	2.5	62.5	✓	✓
3800				
4420	2.0	63.0	✓	✓
3810				
4420	1.4	63.6	✓	✓
3820				
4420	1.0	64.0	✓	✓
3830				
4420	0.5	64.5	✓	✓
3830				
4420	0.3	64.7	✓	✓

L.S. ✓



565.05

3820					
4410	0.0	565.0	✓	✓	
3810					
4410	0.8	64.2	✓	✓	
3800					
4410	1.3	63.7	✓	✓	
3790					
4410	1.7	63.3	✓	✓	
3780					
4410	2.2	62.8	✓	✓	
3770					
4410	2.8	62.2	✓	✓	
3760					
4410	3.1	61.9	✓	✓	
3750					
4410	3.4	61.6	✓	✓	
3740					
4410	3.7	61.3	✓	✓	
3730					
4410	3.7	61.3	✓	✓	
3720					
4410	3.8	61.2	✓	✓	
3710					
4410	4.1	60.9	✓	✓	
3700					
4410	4.7	60.3	✓	✓	
3690					
4410	5.8	59.2	✓	✓	
3680					
4410	5.7	59.3	✓	✓	
3670					
4410	8.4	56.6	✓	✓	
3660					
4410	8.1	56.9	✓	✓	
3650					
4410	8.2	56.8	✓	✓	
3640					
4410	9.6	55.4	✓	✓	
3630					
4410	11.7	<del>54.7</del> 53.3	✓	✓	
3620					
4410	13.5	51.5	✓	✓	
3620					
4400	13.4	51.6	✓	✓	
3630					
4400	11.2	53.8	✓	✓	
3640					
4400	10.6	54.4	✓	✓	
3650					
4400	11.0	54.0	✓	✓	



	565.05				
3660					
4400		10.2	554.8	✓	✓
3670					
4400		9.4	55.6	✓	✓
3680					
4400		8.7	56.3	✓	✓
3690					
4400		6.7	58.3	✓	✓
3700					
4400		5.0	60.0	✓	✓
3710					
4400		4.0	61.0	✓	✓
3720					
4400		4.1	60.9	✓	✓
3730					
4400		3.8	61.2	✓	✓
3740					
4400		3.6	61.4	✓	✓
3750					
4400		3.2	61.8	✓	✓
3760					
4400		3.0	62.0	✓	✓
3770					
4400		2.6	62.4	✓	✓
3780					
4400		2.2	62.8	✓	✓
3790					
4400		1.5	63.5	✓	✓
3800					
4400		1.1	63.9	✓	✓
3810					
4400		0.4	64.6	✓	✓
3810					
4390		0.2	64.8	✓	✓
3800					
4390		0.7	64.3	✓	✓
3790					
4390		1.5	63.5	✓	✓
3780					
4390		2.2	62.8	✓	✓
3770					
4390		2.6	62.4	✓	✓
3760					
4390		3.1	61.9	✓	✓
3750					
4390		3.4	61.6	✓	✓
3740					
4390		3.5	61.5	✓	✓
3730					
4390		3.6	61.4	✓	✓

20.4

565.05

3720				
4390	3.7	561.3	✓	✓
3710				
4390	4.5	60.5	✓	✓
3700				
4390	4.8	60.2	✓	✓
3690				
4390	7.5	57.5	✓	✓
3680				
4390	8.1	56.9	✓	✓
3670				
4390	7.3	57.7	✓	✓
3660				
4390	9.6	55.4	✓	✓
3650				
4390	9.2	55.8	✓	✓
3640				
4390	10.4	54.6	✓	✓
3630				
4390	11.3	53.7	✓	✓
3620				
4390	13.5	51.5	✓	✓
3620				
4380	13.5	51.5	✓	✓
3630				
4380	10.8	54.2	✓	✓
3640				
4380	10.7	54.3	✓	✓
3650				
4380	9.1	55.9	✓	✓
3660				
4380	9.6	55.4	✓	✓
3670				
4380	6.1	58.9	✓	✓
3680				
4380	4.8	60.2	✓	✓
3690				
4380	5.1	59.9	✓	✓
3700				
4380	6.7	58.3	✓	✓
3710				
4380	4.0	61.0	✓	✓
3720				
4380	3.7	61.3	✓	✓
3730				
4380	3.6	61.4	✓	✓
3740				
4380	3.6	61.4	✓	✓
3750				
4380	3.3	61.7	✓	✓

L.S. ✓

565.05

3760				
4380	3.1	561.9	✓	✓
3770				
4380	2.7	62.3	✓	✓
3780				
4380	2.1	62.9	✓	✓
3790				
4380	1.3	63.7	✓	✓
3800				
4380	0.8	64.2	✓	✓
3800				
4370	1.1	63.9	✓	✓
3790				
4370	1.5	63.5	✓	✓
3780				
4370	2.0	63.0	✓	✓
3770				
4370	2.7	62.3	✓	✓
3760				
4370	3.1	61.9	✓	✓
3750				
4370	3.4	61.6	✓	✓
3740				
4370	3.5	61.5	✓	✓
3730				
4370	3.7	61.3	✓	✓
3720				
4370	3.6	61.4	✓	✓
3710				
4370	3.8	61.2	✓	✓
3700				
4370	6.0	59.0	✓	✓
3690				
4370	3.8	61.2	✓	✓
3680				
4370	3.6	61.4	✓	✓
3670				
4370	5.9	59.1	✓	✓
3660				
4370	9.7	55.3	✓	✓
3650				
4370	10.2	54.8	✓	✓
3640				
4370	10.6	54.4	✓	✓
3630				
4370	11.2	53.8	✓	✓
3620				
4370	13.4	51.6	✓	✓
3620				
4360	13.4	51.6	✓	✓

L.S.

565.05

3630					
4360		11.1	553.9	✓	✓
3640					
4360		10.7	54.7	✓	✓
3650					
4360		9.6	55.4	✓	✓
3660					
4360		7.8	57.2	✓	✓
3670					
4360		5.0	60.0	✓	✓
3680					
4360		3.1	61.9	✓	✓
3690					
4360		2.6	62.4	✓	✓
3700					
4360		5.1	59.9	✓	✓
3710					
4360		5.2	59.8	✓	✓
3720					
4360		3.7	61.3	✓	✓
3730					
4360		3.7	61.3	✓	✓
3740					
4360		3.5	61.5	✓	✓
3750					
4360		3.3	61.7	✓	✓
3760					
4360		3.0	62.0	✓	✓
3770					
4360		2.5	62.5	✓	✓
3780					
4360		2.3	62.7	✓	✓
3790					
4360		1.8	63.2	✓	✓
3800					
4360		1.5	63.5	✓	✓

12.37 576.53 0.89 564.16

3810					
4400		11.9	564.6		
3820					
4400		11.1	65.4	✓	✓
3830					
4400		10.4	66.1	✓	✓
3840					
4400		10.1	66.4	✓	✓
3840					
4410		10.3	66.1	✓	✓
3830					
4410		11.0	65.5	✓	✓

2.8

576.53

3840					
4420	10.2	566.3	✓	✓	
3850					
4420	7.1	69.4	✓	✓	
3850					
4430	5.2	71.3	✓	✓	
3840					
4430	8.6	67.9	✓	✓	
3840					
4440	7.0	69.5	✓	✓	
3850					
4440	4.7	71.8	✓	✓	
3860					
4440	3.0	73.5	✓	✓	
3850					
4450	4.4	72.1	✓	✓	
3840					
4450	6.0	70.5	✓	✓	
3830					
4450	10.4	66.1	✓	✓	
3830					
4460	9.0	67.5	✓	✓	
3840					
4460	5.6	70.9	✓	✓	
3840					
4470	4.6	71.9	✓	✓	
3830					
4470	6.4	70.1	✓	✓	
3820					
4470	10.7	65.8	✓	✓	
3820					
4480	8.4	68.1	✓	✓	
3830					
4480	5.7	70.8	✓	✓	
3840					
4480	3.8	72.7	✓	✓	
3840					
4490	3.5	73.0	✓	✓	
3830					
4490	5.0	71.5	✓	✓	
3820					
4490	7.3	69.2	✓	✓	
3810					
4500	10.2	66.3	✓	✓	
3820					
4500	6.5	70.0	✓	✓	
3830					
4500	4.6	71.9	✓	✓	
3840					
4500	3.6	72.9	✓	✓	

L.S. ←

576.53

3830				
4510	4.6	571.9	✓	✓
3820				
4510	6.3	70.2	✓	✓
3810				
4510	8.8	67.7	✓	✓
3800				
4510	10.8	65.7	✓	✓
3800				
4520	7.9	68.6	✓	✓
3810				
4520	7.7	68.8	✓	✓
3820				
4520	6.3	<del>60.2</del> 70.2	✓	✓
3830				
4520	2.8	<del>73.7</del> 72.0	✓	✓
3820				
4530	4.5	<del>62.1</del> 68.2	✓	✓
3810				
4530	8.3	<del>58.7</del>	✓	✓
3800				
4530	9.8	66.7	✓	✓
3800				
4540	10.0	66.5	✓	✓
3810				
4540	6.5	70.0	✓	✓
3820				
4540	2.6	73.9	✓	✓
3820				
4550	1.6	74.9	✓	✓
3810				
4550	5.4	71.1	✓	✓
3800				
4550	8.8	67.7	✓	✓
3800				
4560	8.7	67.8	✓	✓
3810				
4560	4.5	72.0	✓	✓
3810				
4570	3.0	73.5	✓	✓
3800				
4570	7.1	69.4	✓	✓
3800				
4580	4.8	71.7	✓	✓
3810				
4580	0.6	75.9	✓	✓
3800				
4590	3.5	73.0	✓	✓
3790				
4590	10.5	66.0	✓	✓

L.S. ✓

576.53

3790					
4600	9.1	567.4	✓	✓	
3800					
4600	2.5	74.0	✓	✓	
3800					
4610	+0.5	77.0	✓	✓	
3790					
4610	4.6	71.9	✓	✓	
3780					
4610	11.5	65.0	✓	✓	
3780					
4620	10.7	65.8	✓	✓	
3790					
4620	4.1	72.4	✓	✓	
3790					
4630	1.5	75.0	✓	✓	
3780					
4630	7.3	69.2	✓	✓	
3780					
4640	7.3	69.2	✓	✓	
3790					
4640	1.3	75.2	✓	✓	
3790					
4650	0.9	75.6	✓	✓	
3780					
4650	6.4	70.1	✓	✓	
3770					
4650	11.0	65.5	✓	✓	
3760					
4660	12.3	64.2	✓	✓	
3770					
4660	9.0	67.5	✓	✓	
3780					
4660	4.2	72.3	✓	✓	
3790					
4660	+0.3	76.8	✓	✓	
3780					
4670	2.6	73.9	✓	✓	
3770					
4670	8.6	67.9	✓	✓	
3760					
4670	12.2	64.3	✓	✓	
3750					
4670	14.0	62.5	✓	✓	
3750					
4680	13.7	62.8	✓	✓	
3760					
4680	11.1	65.4	✓	✓	
3770					
4680	6.5	70.0	✓	✓	

J.S. ✓



576.53

3780					
4680					
3780		1.2	575.3	✓	✓
4690		0.0	76.5	✓	✓
3770					
4690		5.1	71.4	✓	✓
3760					
4690		10.3	66.2	✓	✓
3750					
4690		13.0	63.5	✓	✓
3750					
4700		10.0	66.5	✓	✓
3760					
4700		5.1	71.4	✓	✓
3770					
4700		2.4	74.1	✓	✓

T.P.	3.15	579.37	0.31	576.22	
------	------	--------	------	--------	--

End Mar 11, 1932

3780					
4700		1.8	77.6	✓	✓
3780					
4710		1.3	78.1	✓	✓
3770					
4710		2.6	76.8	✓	✓
3760					
4710		3.0	76.4	✓	✓
3750					
4710		8.6	70.8	✓	✓
3750					
4720		12.8	66.6	✓	✓
3760					
4720		8.8	70.6	✓	✓
3770					
4720		3.0	76.4	✓	✓
3780					
4720		0.6	78.8	✓	✓
3780					
4730		0.0	79.4	✓	✓
3770					
4730		4.4	75.0	✓	✓
3760					
4730		10.3	69.1	✓	✓
3760					
4740		8.5	70.9	✓	✓
3770					
4740		3.4	76.0	✓	✓
3770					
4750		4.1	75.3	✓	✓
3760					
4750		7.4	72.0	✓	✓

J.S.

	579.37				
3750					
4750		14.9	564.5	✓	✓
3750					
4760		13.6	65.8	✓	✓
3760					
4760		8.4	71.0	✓	✓
3770					
4760		1.7	77.4	✓	✓
3770					
4770		1.0	78.4	✓	✓
3760					
4770		5.4	76.0	✓	✓
3750					
4770		11.7	67.7	✓	✓
3750					
4780		11.6	67.8	✓	✓
3760					
4780		5.6	73.8	✓	✓
3760					
4790		5.7	73.7	✓	✓
3750					
4790		9.2	70.2	✓	✓
3740					
4790		15.6	63.8	✓	✓
3740					
4800		14.8	64.6	✓	✓
3750					
4800		8.2	71.2	✓	✓
3760					
4800		4.2	75.2	✓	✓
3760					
4810		1.8	77.6	✓	✓
3750					
4810		7.6	71.8	✓	✓
3740					
4810		13.0	66.4	✓	✓
3740					
4820		14.1	65.3	✓	✓
3750					
4820		7.9	71.5	✓	✓
3760					
4820		1.8	77.6	✓	✓
3760					
4830		2.0	77.4	✓	✓
3750					
4830		7.2	72.2	✓	✓
3740					
4830		14.5	64.9	✓	✓
3740					
4840		14.1	65.3	✓	✓

d.s. ✓

579.37

3750			9.5	569.9	✓	✓
4840						
3760			3.7	75.7	✓	✓
4840						
3760			3.6	75.8	✓	✓
4850						
3750			12.5	66.9	✓	✓
4850						
3750			12.0	67.4	✓	✓
4860						
3760			4.0	75.4	✓	✓
4860						
3760			5.9	73.5	✓	✓
4870						
3750			11.2	68.2	✓	✓
4870						
3750			9.5	69.9	✓	✓
4880						
3760			5.5	73.9	✓	✓
4880						
3760			5.5	73.9	✓	✓
4890						
3750			10.8	68.6	✓	✓
4890						
3750			10.4	69.0	✓	✓
4900						
3760			5.2	74.2	✓	✓
4900						
T.P.	8.39	584.40	3.36	576.01		
3770			7.3	577.1	✓	✓
4900						
3780			0.5	83.9	✓	✓
4900						
3780			5.0	79.4	✓	✓
4910						
3770			11.4	73.0	✓	✓
4910						
3760			19.5	64.9	✓	✓
4910						
3750			21.0	63.4	✓	✓
4910						
3760			19.7	64.7	✓	✓
4920						
3770			16.5	67.9	✓	✓
4920						
3780			9.1	75.3	✓	✓
4920						
3790			0.9	83.5	✓	✓
4920						

L.S.

11.7  
2.9  
9.8

584.40

3790				
4930				
3780	4.5	579.9	✓	✓
4930	9.8	74.6	✓	✓
3770				
4930	15.6	68.8	✓	✓
3760				
4930	19.8	64.6	✓	✓
3770				
4940	16.5	67.9	✓	✓
3780				
4940	10.0	74.4	✓	✓
3790				
4940	4.8	79.6	✓	✓
3800				
4940	10.5	84.9	✓	✓
3800				
4950	1.8	82.6	✓	✓
3790				
4950	6.9	77.5	✓	✓
3780				
4950	10.8	73.6	✓	✓
3770				
4950	17.3	67.1	✓	✓
3770				
4960	19.8	64.6	✓	✓
3780				
4960	16.6	67.8	✓	✓
3790				
4960	11.0	73.4	✓	✓
3800				
4960	4.1	80.3	✓	✓
3800				
4970	6.4	78.0	✓	✓
3790				
4970	12.2	72.2	✓	✓
3780				
4970	17.4	67.0	✓	✓
3780				
4980	18.5	65.9	✓	✓
3790				
4980	14.3	70.1	✓	✓
3800				
4980	10.7	73.7	✓	✓
3810				
4980	3.4	81.0	✓	✓
3810				
4990	7.0	77.4	✓	✓
3800				
4990	12.4	72.0	✓	✓

d.s. ✓

		584.40			
3790			16.0	568.4	✓ ✓
4990					
3780			20.8	63.6	✓ ✓
4990					
3790			20.8	63.6	✓ ✓
5000					
3800			16.4	68.0	✓ ✓
5000					
3810			9.8	74.6	✓ ✓
5000					

T.P. 4.96 579.13 10.23 574.17  
 11.00 568.13 = checks

on Hub on Axis <sup>N3800</sup> E5000 El. 568.135

	7.46	570.20		562.74 = Hub on	Axis <sup>N3780</sup> E5000
3730					
5010			15.6	54.6	✓ ✓
3740					
5010			14.4	55.8	✓ ✓
3750					
5010			13.9	56.3	✓ ✓
3760					
5010			12.3	57.9	✓ ✓
3770					
5010			10.7	59.5	✓ ✓
3780					
5010			7.8	62.4	✓ ✓
3790					
5010			6.8	63.4	✓ ✓
3800					
5010			4.7	65.5	✓ ✓
3800					
5020			6.4	63.8	✓ ✓
3790					
5020			7.8	62.4	✓ ✓
3780					
5020			8.0	62.2	✓ ✓
3770					
5020			11.9	58.8	✓ ✓
3760					
5020			12.8	57.4	✓ ✓
3750					
5020			14.3	55.9	✓ ✓
3740					
5020			16.3	53.9	✓ ✓
3740					
5030			15.6	54.6	✓ ✓

J.S.

		570.20			
3750	5030	14.8	55.4	✓	✓
3760	5030	13.5	56.7	✓	✓
3770	5030	12.3	57.9	✓	✓
3780	5030	10.5	59.7	✓	✓
3790	5030	10.6	59.6	✓	✓
3800	5030	8.8	61.4	✓	✓
3810	5030	5.5	64.7	✓	✓
3820	5030	0.6	69.6	✓	✓
3820	5040	1.6	68.6	✓	✓
3810	5040	7.4	62.8	✓	✓
3800	5040	10.1	60.1	✓	✓
3790	5040	10.9	59.3	✓	✓
3780	5040	12.5	57.7	✓	✓
3770	5040	12.8	57.4	✓	✓
3760	5040	14.1	56.1	✓	✓
3750	5040	15.5	54.7	✓	✓
3750	5050	16.8	53.4	✓	✓
3760	5050	14.1	56.1	✓	✓
3770	5050	13.5	56.7	✓	✓
3780	5050	12.2	58.0	✓	✓
3790	5050	12.2	58.0	✓	✓
3800	5050	12.1	58.1	✓	✓
3810	5050	8.1	62.1	✓	✓
3820	5050	4.4	65.8	✓	✓
3830	5060	1.9	68.3	✓	✓

L.S. ✓

	570,20	1			
3820			8.6	561.4	✓ ✓
5060					
3810			11.8	58.4	✓ ✓
5060					
3800			12.8	57.4	✓ ✓
5060					
3790			12.8	57.4	✓ ✓
5060					
3780			13.1	57.1	✓ ✓
5060					
3770			14.0	56.2	✓ ✓
5060					
3760			14.8	55.4	✓ ✓
5060					
3750			15.8	54.4	✓ ✓
5060					
3760			15.0	55.2	✓ ✓
5070					
3770			14.5	55.7	✓ ✓
5070					
3780			13.6	56.6	✓ ✓
5070					
3790			12.1	58.1	✓ ✓
5070					
3800			12.8	57.4	✓ ✓
5070					
3810			14.4	55.8	✓ ✓
5070					
3820			9.7	60.5	✓ ✓
5070					
3830			4.4	65.8	✓ ✓
5070					
3840			2.2	68.0	✓ ✓
5070					
3840			4.6	65.6	✓ ✓
5080					
3830			8.9	61.3	✓ ✓
5080					
3820			10.6	59.6	✓ ✓
5080					
3810			11.9	58.3	✓ ✓
5080					
3800			11.4	58.8	✓ ✓
5080					
3790			12.0	58.2	✓ ✓
5080					
3780			13.5	56.7	✓ ✓
5080					
3770			14.5	55.7	✓ ✓
5080					

ml ✓

3760	570.20			
5080		15.5	554.7	✓
3770				✓
5090		15.7	545	✓
3780				✓
5090		13.8	564	✓
3790				✓
5090		12.8	574	✓
3800				✓
5090		12.0	582	✓
3810				✓
5090		10.6	594	✓
3820				✓
5090		10.0	602	✓
3830				✓
5090		8.7	615	✓
3840				✓
5090		5.0	652	✓
3850				✓
5090		0.7	695	✓
3840				✓
5100		3.8	664	✓
3830				✓
5100		8.4	618	✓
3820				✓
5100		10.4	598	✓
3810				✓
5100		11.0	592	✓
3800				✓
5100		11.7	585	✓
3790				✓
5100		13.3	569	✓
3780				✓
5100		15.6	546	✓
3770				✓
5100		15.6	546	✓
3780				✓
5110		14.9	553	✓
3790				✓
5110		15.4	548	✓
3800				✓
5110		14.0	562	✓
3810				✓
5110		12.6	576	✓
3820				✓
5110		10.6	596	✓
3830				✓
5110		9.8	604	✓
3840				✓
5110		8.8	561.4	✓

✓ (M)



		570.20		
T.P.	8.02	569.77	8.45	561.75
3850				
5110			4.0	545.8 ✓ ✓
3850				
5120			4.4	<sup>65.4</sup> 61.4 ✓ ✓
3840				
5120			8.3	61.5 ✓ ✓
3830				
5120			10.1	59.7 ✓ ✓
3820				
5120			12.0	57.8 ✓ ✓
3810				
5120			13.0	56.8 ✓ ✓
3800				
5120			14.3	55.5 ✓ ✓
3800				
5130			14.2	55.6 ✓ ✓
3810				
5130			13.0	56.8 ✓ ✓
3820				
5130			12.3	<sup>57.5</sup> 56.5 ✓ ✓
3830				
5130			11.1	58.7 ✓ ✓
3840				
5130			8.0	61.8 ✓ ✓
3850				
5130			5.8	64.0 ✓ ✓
3860				
5130			2.7	67.1 ✓ ✓
3860				
5140			3.4	66.4 ✓ ✓
3850				
5140			8.2	61.6 ✓ ✓
3840				
5140			10.0	59.8 ✓ ✓
3830				
5140			11.9	57.9 ✓ ✓
3820				
5140			12.9	56.9 ✓ ✓
3810				
5140			12.1	57.7 ✓ ✓
3800				
5140			13.6	56.2 ✓ ✓
3790				
5140			15.0	54.8 ✓ ✓
3790				
5150			14.0	55.8 ✓ ✓
3800				
5150			13.6	56.2 ✓ ✓

✓

56977

3810				
5150				
3820	11.5	558.3	✓	✓
5150	11.8	58.0	✓	✓
3830				
5150	120	57.8	✓	✓
3840				
5150	10.7	59.1	✓	✓
3850				
5150	6.3	63.5	✓	✓
3860				
5150	3.2	66.6	✓	✓
3860				
5160	4.1	65.7	✓	✓
3850				
5160	8.8	61.0	✓	✓
3840				
5160	11.7	58.1	✓	✓
3830				
5160	11.6	58.2	✓	✓
3820				
5160	12.6	57.2	✓	✓
3810				
5160	13.4	56.4	✓	✓
3800				
5160	13.5	56.3	✓	✓
3790				
5160	13.7	56.1	✓	✓
3790				
5170	15.0	54.8	✓	✓
3800				
5170	13.2	56.6	✓	✓
3810				
5170	12.4	57.4	✓	✓
3820				
5170	12.8	57.0	✓	✓
3830				
5170	11.9	57.9	✓	✓
3840				
5170	12.5	57.3	✓	✓
3850				
5170	7.5	62.3	✓	✓
3860				
5170	4.4	65.4	✓	✓
3870				
5180	2.0	67.8	✓	✓
3860				
5180	6.0	63.8	✓	✓
3850				
5180	10.5	59.3	✓	✓

1 (ms)

569.77

3840				
5180	12.7	57.1	✓	✓
3830				
5180	13.0	56.8	✓	✓
3820				
5180	12.6	57.2	✓	✓
3810				
5180	12.7	57.1	✓	✓
3800				
5180	13.1	54.7	✓	✓
3790				
5180	14.8	55.0	✓	✓
3790				
5190	13.7	56.1	✓	✓
3800				
5190	13.3	54.5	✓	✓
3810				
5190	13.2	56.6	✓	✓
3820				
5190	12.4	57.4	✓	✓
3830				
5190	13.0	54.8	✓	✓
3840				
5190	12.2	57.6	✓	✓
3850				
5190	10.8	59.0	✓	✓
3860				
5190	5.9	63.9	✓	✓
3870				
5190	1.0	68.8	✓	✓
3870				
5200	3.0	64.8	✓	✓
3860				
5200	9.5	60.3	✓	✓
3850				
5200	11.4	58.4	✓	✓
3840				
5200	12.7	57.1	✓	✓
3830				
5200	13.0	54.8	✓	✓
3820				
5200	12.4	57.4	✓	✓
3810				
5200	12.9	54.9	✓	✓
3800				
5200	13.5	54.3	✓	✓
3790				
5200	14.0	55.8	✓	✓
3800				
5210	13.8	54.0	✓	✓

✓ 700

569.77

3810				
5210	12.5	557.3	✓	✓
3820				
5210	12.7	57.1	✓	✓
3830				
5210	11.7	58.1	✓	✓
3840				
5210	12.4	57.4	✓	✓
3850				
5210	11.1	58.7	✓	✓
3860				
5210	9.0	60.8	✓	✓
3870				
5210	4.0	65.8	✓	✓
3880				
5210	+0.3	70.1	✓	✓
3870				
5220	5.1	64.7	✓	✓
3860				
5220	9.4	60.4	✓	✓
3850				
5220	11.8	58.0	✓	✓
3840				
5220	12.0	57.8	✓	✓
3830				
5220	12.0	57.8	✓	✓
3820				
5220	13.0	54.8	✓	✓
3810				
5220	12.6	57.2	✓	✓
3800				
5220	13.1	54.7	✓	✓
3790				
5220	14.5	55.3	✓	✓
3790				
5230	15.0	54.8	✓	✓
3800				
5230	13.5	56.3	✓	✓
3810				
5230	12.9	54.9	✓	✓
3820				
5230	12.3	57.5	✓	✓
3830				
5230	12.2	57.6	✓	✓
3840				
5230	12.0	57.8	✓	✓
3850				
5230	11.1	58.7	✓	✓
3860				
5230	8.7	61.1	✓	✓

✓ (msd)

569.77

3870				
5230	3.3	566.5	✓	✓
3880				
5230	1.3	68.5	✓	✓
3880				
5240	0.4	69.4	✓	✓
3870				
5240	4.9	64.9	✓	✓
3860				
5240	9.5	60.3	✓	✓
3850				
5240	10.8	59.0	✓	✓
3840				
5240	12.0	57.8	✓	✓
3830				
5240	12.4	57.4	✓	✓
3820				
5240	12.4	57.4	✓	✓
3810				
5240	13.3	56.5	✓	✓
3800				
5240	13.5	56.3	✓	✓
3790				
5240	15.0	54.8	✓	✓
3790				
5250	15.5	54.3	✓	✓
3800				
5250	13.6	56.2	✓	✓
3810				
5250	13.1	56.7	✓	✓
3820				
5250	12.6	57.2	✓	✓
3830				
5250	12.3	57.5	✓	✓
3840				
5250	12.1	57.7	✓	✓
3850				
5250	10.2	59.6	✓	✓
3860				
5250	8.6	61.2	✓	✓
3870				
5250	4.7	65.1	✓	✓
3880				
5250	1.3	68.5	✓	✓
3880				
5260	1.1	68.7	✓	✓
3870				
5260	6.3	63.5	✓	✓
3860				
5260	8.1	61.7	✓	✓

✓ 700

569.77

3850				
5260	9.8	556.00	✓	✓
3840				
5260	12.3	57.5	✓	✓
3830				
5260	12.6	57.2	✓	✓
3820				
5260	13.0	56.8	✓	✓
3810				
5260	13.2	56.4	✓	✓
3800				
5260	13.6	56.2	✓	✓
3810				
5270	13.7	56.1	✓	✓
3820				
5270	12.9	56.9	✓	✓
3830				
5270	12.9	56.9	✓	✓
3840				
5270	12.5	57.3	✓	✓
3850				
5270	10.1	59.7	✓	✓
3860				
5270	8.5	61.3	✓	✓
3870				
5270	4.8	65.0	✓	✓
3880				
5270	1.2	68.4	✓	✓
3880				
5280	2.5	67.3	✓	✓
3870				
5280	6.8	63.0	✓	✓
3860				
5280	8.7	61.1	✓	✓
3850				
5280	10.3	59.5	✓	✓
3840				
5280	12.5	57.3	✓	✓
3830				
5280	12.6	57.2	✓	✓
3820				
5280	12.9	56.9	✓	✓
3810				
5280	13.4	56.4	✓	✓
3810				
5290	13.0	56.8	✓	✓
3820				
5290	13.2	56.4	✓	✓
3830				
5290	12.2	557.6	✓	✓

✓ (716)

3840	569.77		557.4	✓	
5290		12.4	567.4	✓	✓
3850					
5290		10.4	59.4	✓	✓
3860					
5290		9.7	60.1	✓	✓
3870					
5290		5.8	64.0	✓	✓
3880					
5290		3.0	66.8	✓	✓
3880					
5300		4.0	65.8	✓	✓
3870					
5300		7.6	62.2	✓	✓
3860					
5300		9.8	60.0	✓	✓
3850					
5300		10.2	59.6	✓	✓
3840					
5300		12.0	57.8	✓	✓
3830					
5300		13.0	56.8	✓	✓
3820					
5300		12.8	57.0	✓	✓
3810					
5300		13.6	56.2	✓	✓
3810					
5310		13.0	56.8	✓	✓
3820					
5310		13.0	54.8	✓	✓
3830					
5310		13.2	56.6	✓	✓
3840					
5310		11.7	58.1	✓	✓
3850					
5310		10.2	59.6	✓	✓
3860					
5310		9.3	60.5	✓	✓
3870					
5310		8.3	61.5	✓	✓
3880					
5310		5.2	64.4	✓	✓
3890					
5310		1.4	68.4	✓	✓
3890					
5320		2.0	67.8	✓	✓
3880					
5320		5.2	64.6	✓	✓
3870					
5320		8.6	61.2	✓	✓

✓ (780)

569.77

3860 5320	9.3	560.5	✓	✓
3850 5320	10.1	59.7	✓	✓
3840 5320	11.9	57.9	✓	✓
3830 5320	12.8	57.0	✓	✓
3820 5320	13.0	56.8	✓	✓
3810 5320	13.0	56.8	✓	✓
3810 5330	13.0	56.8	✓	✓
3820 5330	12.9	56.9	✓	✓
3830 5330	12.4	57.4	✓	✓
3840 5330	11.9	57.9	✓	✓
3850 5330	9.6	60.2	✓	✓
3860 5330	8.8	61.0	✓	✓
3870 5330	7.7	62.1	✓	✓
3880 5330	3.7	66.1	✓	✓
3890 5330	1.2	68.6	✓	✓
3880 5340	2.8	67.0	✓	✓
3870 5340	6.5	63.3	✓	✓
3860 5340	9.1	60.7	✓	✓
3850 5340	9.7	60.1	✓	✓
3840 5340	12.0	57.8	✓	✓
3830 5340	12.4	57.4	✓	✓
3820 5340	12.7	57.1	✓	✓
3810 5340	13.2	56.6	✓	✓
3800 5340	14.2	55.4	✓	✓
3810 5350	13.6	56.2	✓	✓

✓ 1130



3820	569.77				
5350		12.7	557.1	✓	✓
3830			57.4		
5350		12.4	57.3	✓	✓
3840					
5350		11.9	57.9	✓	✓
3850					
5350		10.1	59.7	✓	✓
3860					
5350		9.3	60.5	✓	✓
3870					
5350		7.3	62.5	✓	✓
3880					
5350		0.2	69.6	✓	✓
3880					
5360		1.6	68.2	✓	✓
3870					
5360		4.6	65.2	✓	✓
3860					
5360		7.3	62.5	✓	✓
3850					
5360		10.0	59.8	✓	✓
3840					
5360		12.0	57.8	✓	✓
3830					
5360		12.1	57.7	✓	✓
3820					
5360		12.7	57.1	✓	✓
3810					
5360		13.5	56.3	✓	✓
3820					
5370		13.5	56.3	✓	✓
3830					
5370		11.9	57.9	✓	✓
3840					
5370		12.0	57.8	✓	✓
3850					
5370		10.1	59.7	✓	✓
3860					
5370		5.2	64.6	✓	✓
3870					
5370		1.3	48.5	✓	✓
3880					
5370		0.0	69.8	✓	✓
3880					
5380		+0.5	70.3	✓	✓
3870					
5380		1.8	68.0	✓	✓
3860					
5380		5.6	64.2	✓	✓

Contd. in Book #338.

MARIA - 1932

✓ (M32)

Plotted  
2/25/32

E.W.G.

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope take from side or shoulder  
take for any width roadway, slope 1/2 to 1  
If ground is nearly level, the cut or fill of any  
slope is found by the double entry method in  
left column and top row. The number of feet

---

---

## IMPROVED TABLES

AND

## INFORMATION

---

---

The first tangent and external for any  
any other degree divide by degree of angle and  
add correction found in column of correction  
Degree of curve with a given length of  
by knowing tangent (or external) distance  
given tangent (or external)  
The distance from a point on the tangent to  
the curve is very nearly the square of the tangent  
length divided by twice the radius

TABLE VI (continued)  
SINES, CÖSINES, TANGENTS, COTANGENTS (continued)

deg	sin 0'	tan 0'	sin 10'	tan 10'	sin 20'	tan 20'	sin 30'	tan 30'	sin 40'	tan 40'	sin 50'	tan 50'	deg
46	7193	1.0355	7214	1.0416	7234	1.0477	7254	1.0533	7274	1.0599	7294	1.0661	43
47	314	.0724	333	.0786	353	.0850	373	.0913	392	.0977	412	1.041	42
48	431	.1106	451	.1171	470	.1237	490	.1303	509	.1369	528	1.436	41
49	547	.1504	566	.1571	585	.1640	604	.1708	623	.1778	642	1.847	40
50	660	1.1918	7679	1.1988	7698	1.2059	7716	1.2131	7735	1.2203	7753	1.2276	39
51	771	.2349	790	.2423	808	.2497	826	.2572	844	.2647	862	.2723	38
52	880	.2799	898	.2876	916	.2954	934	.3032	951	.3111	969	.3190	37
53	986	.3270	8004	.3351	8021	.3452	8039	.3514	8056	.3597	8073	.3680	36
54	8090	.3764	107	.3843	124	.3934	141	.4019	158	.4106	175	.4193	35
55	192	.4231	203	.4370	225	.4460	241	.4550	258	.4641	274	.4733	34
56	290	.4826	307	.4919	323	.5013	339	.5108	355	.5204	371	.5301	33
57	387	.5399	403	.5497	418	.5597	434	.5697	450	.5798	465	.5900	32
58	480	.6003	496	.6107	511	.6212	526	.6319	542	.6426	557	.6534	31
59	572	.6643	587	.6753	601	.6864	616	.6977	631	.7090	646	.7205	30
60	660	1.7321	8675	1.7437	8689	1.7556	8704	1.7675	8718	1.7797	8732	1.7917	29
61	746	.8040	760	.8165	774	.8291	788	.8418	802	.8546	816	.8676	28
62	829	.8807	843	.8940	857	.9074	870	.9210	884	.9347	897	.9486	27
63	910	.9626	923	.9768	936	.9912	949	2.0057	962	2.0204	975	2.0353	26
64	988	2.0503	9001	2.0655	9013	2.0809	9026	.0965	9038	.1123	9051	1.1283	25
65	9063	.1445	075	.1609	088	.1775	100	.1943	112	.2113	124	.2286	24
66	135	.2460	147	.2637	159	.2817	171	.2998	182	.3183	194	.3369	23
67	205	.3559	216	.3750	228	.3945	239	.4142	250	.4342	261	.4545	22
68	272	.4751	283	.4960	293	.5172	304	.5386	315	.5605	325	.5826	21
69	336	.6051	346	.6279	356	.6511	367	.6746	377	.6985	387	.7228	20
70	397	2.7475	9407	2.7725	9417	2.7980	9426	2.8239	9436	2.8502	9446	2.8770	19
71	455	.9042	465	.9319	474	.9600	483	.9887	492	3.0178	502	3.0475	18
72	511	3.0777	520	3.1084	528	3.1397	537	3.1716	546	.2041	555	.2371	17
73	563	.2709	572	.3052	580	.3402	588	.3759	596	.4124	605	.4495	16
74	613	.4874	621	.5261	628	.5656	636	.6059	644	.6470	652	.6891	15
75	659	.7321	667	.7760	674	.8208	681	.8657	689	.9136	696	.9617	14
76	703	4.0108	710	4.0611	717	4.1126	724	4.1653	730	4.2193	737	4.2747	13
77	744	.3315	750	.3897	757	.4494	763	.5107	769	.5736	775	.6382	12
78	781	.7046	787	.7729	793	.8430	799	.9152	805	.9894	811	5.0658	11
79	816	.1446	822	5.2257	827	5.3093	833	5.3955	838	5.4845	843	.5764	10
80	9848	5.6713	9853	5.7694	9858	5.8708	9863	5.9758	9868	6.0844	9872	6.1970	9
81	877	6.3138	881	6.4348	886	6.5606	890	6.6912	894	.8269	899	.9682	8
82	903	7.1154	907	7.2687	911	7.4287	914	7.5958	918	7.7704	922	7.9530	7
83	925	8.1443	929	8.3450	932	8.5555	936	8.7769	939	9.0098	942	9.2553	6
84	945	9.5144	948	9.7882	951	10.078	954	10.385	957	10.711	959	11.059	5
85	962	11.430	964	11.826	967	12.250	969	12.706	971	13.197	974	13.727	4
86	976	14.300	978	14.924	980	15.605	981	16.350	983	17.169	985	18.075	3
87	986	19.081	988	20.206	989	21.470	990	22.903	992	24.542	993	26.432	2
88	994	28.636	995	31.242	996	34.368	997	38.189	997	42.964	998	49.104	1
89	9998	57.290	9999	68.750	9999	85.940	9999	114.58	1.000	171.88	1.000	343.77	0
deg	cos 60'	cot 60'	cos 50'	cot 50'	cos 40'	cot 40'	cos 30'	cot 30'	cos 20'	cot 20'	cos 10'	cot 10'	deg

TABLE VII  
RODS IN FEET AND INCHES

Rods	Feet Inches	Rods	Feet Inches	Rods	Feet Inches	Rods	Feet Inches	Rods	Feet Inches
1	16-6	21	346-6	41	676-6	61	1006-6	81	1336-6
2	33-0	22	363-0	42	693-0	62	1023-0	82	1353-0
3	49-6	23	379-6	43	709-6	63	1039-6	83	1369-6
4	66-0	24	396-0	44	726-0	64	1056-0	84	1386-0
5	82-6	25	412-6	45	742-6	65	1072-6	85	1402-6
6	99-0	26	429-0	46	759-0	66	1089-0	86	1419-0
7	115-6	27	445-6	47	775-6	67	1105-6	87	1435-6
8	132-0	28	462-0	48	792-0	68	1122-0	88	1452-0
9	148-6	29	478-6	49	808-6	69	1138-6	89	1468-6
10	165-0	30	495-0	50	825-0	70	1155-0	90	1485-0
11	181-6	31	511-6	51	841-6	71	1171-6	91	1501-6
12	198-0	32	528-0	52	858-0	72	1188-0	92	1518-0
13	214-6	33	544-6	53	874-6	73	1204-6	93	1534-6
14	231-0	34	561-0	54	891-0	74	1221-0	94	1551-0
15	247-6	35	577-6	55	907-6	75	1237-6	95	1567-6
16	264-0	36	594-0	56	924-0	76	1254-0	96	1584-0
17	280-6	37	610-6	57	940-6	77	1270-6	97	1600-6
18	297-0	38	627-0	58	957-0	78	1287-0	98	1617-0
19	313-6	39	643-6	59	973-6	79	1303-6	99	1633-6
20	330-0	40	660-0	60	990-0	80	1320-0	100	1650-0

TABLE VIII  
LINKS IN FEET AND INCHES

Links	Feet Inches	Links	Feet Inches	Links	Feet Inches	Links	Feet Inches	Links	Feet Inches
1	0-7.92	18	11-10.56	35	23-1.20	52	34-3.84	69	45-6.48
2	1-3.84	19	12-6.48	36	23-9.12	53	34-11.76	70	46-2.40
3	1-11.76	20	13-2.40	37	24-5.04	54	35-7.68	71	46-10.32
4	2-7.68	21	13-10.32	38	25-0.96	55	36-3.60	72	47-6.24
5	3-3.60	22	14-6.24	39	25-8.88	56	36-11.52	73	48-2.16
6	3-11.52	23	15-2.16	40	26-4.80	57	37-7.44	74	48-10.08
7	4-7.44	24	15-10.08	41	27-0.72	58	38-3.36	75	49-6.00
8	5-3.36	25	16-6.00	42	27-8.64	59	38-11.28	76	50-1.92
9	5-11.28	26	17-1.92	43	28-4.56	60	39-7.20	77	50-9.84
10	6-7.20	27	17-9.84	44	29-0.48	61	40-3.12	78	51-5.76
11	7-3.12	28	18-5.76	45	29-8.40	62	40-11.04	79	52-1.68
12	7-11.04	29	19-1.68	46	30-4.32	63	41-6.96	80	52-9.60
13	8-6.96	30	19-9.60	47	31-0.24	64	42-2.88	81	53-5.52
14	9-2.88	31	20-5.52	48	31-8.16	65	42-10.80	82	54-1.44
15	9-10.80	32	21-1.44	49	32-4.08	66	43-6.72	83	54-9.36
16	10-6.72	33	21-9.36	50	33-0.00	67	44-2.64	84	55-5.28
17	11-2.64	34	22-5.28	51	33-7.92	68	44-10.56	85	56-1.20

