

284 E

W284E

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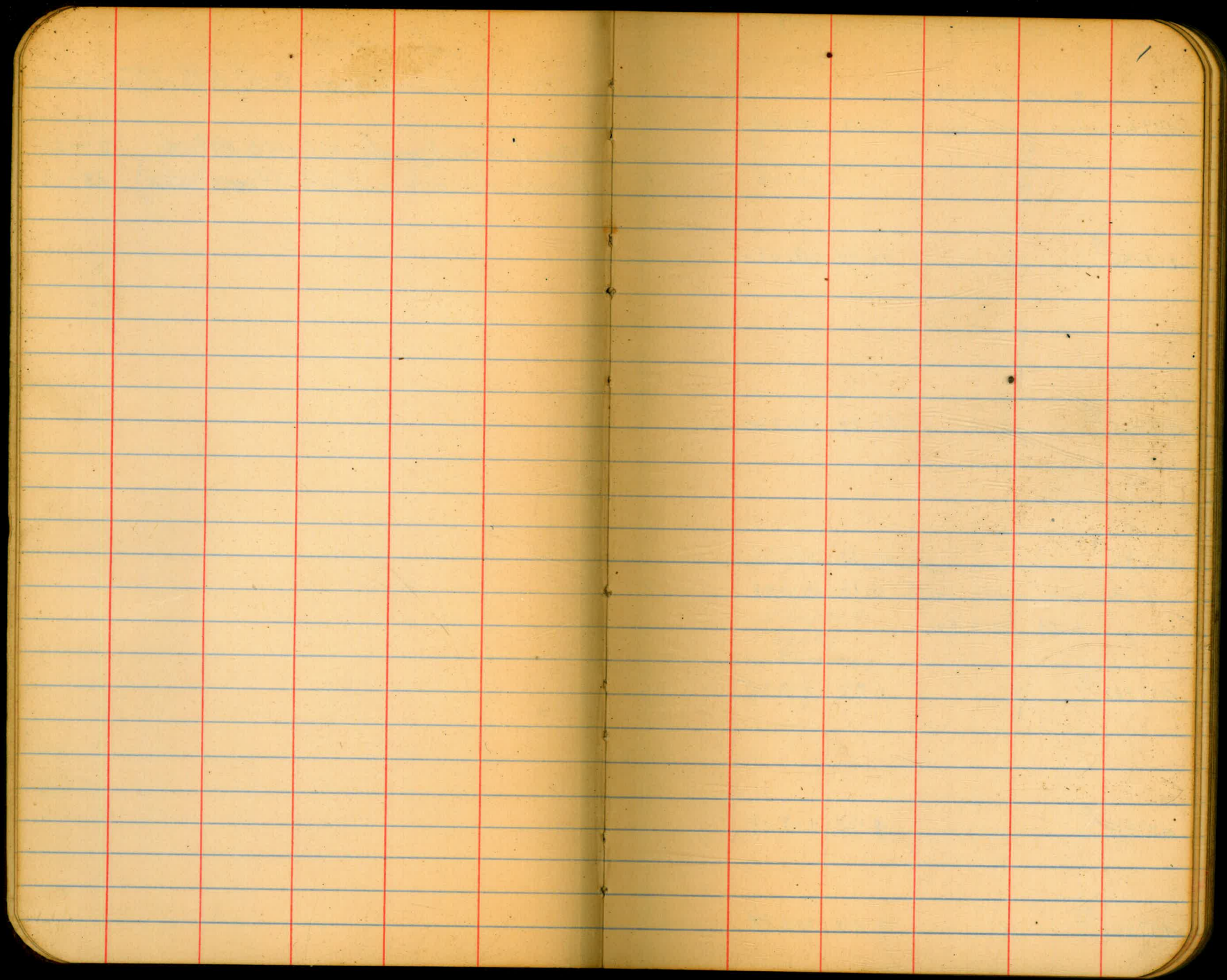
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Index

Clay Res. to San Diego 2nd Main Pipe Line

Final trench grades 366+14 to 499+00 2-61

Grades for pile cutoffs (Sweet Water) 13-16



220.62 = B.M. #80

2

2.17 222.79

499+00

11.33 211.46

7/10/30

Clear and warm

Simpson
Remmen
Butzire498+55⁰⁹

X

10.78 212.01

0.0%

498+25⁰⁹

X

10.77 212.02

497+95⁰⁹

11.13 211.66

+P. 11.16 211.63

0.69 212.32

7/11/30

Clear and warm

Simpson
Lee Ky
Remmen497+65¹²

V.O.

1.97 210.35

↓

497+35²⁰

4.23 208.09

497+05³⁷

X

7.44 204.88

212.32

496+75

11.17 201.15

T.P. 12.92 199.40

0.65 200.85

7/11/30
Simpson
becky
Remmen

clear and warm

496+50

1.95 198.10

+ 12.272 0%

496+25

195.03

496+00

X

8.05 192.99

T.P. 12.94 187.11

0.73 187.84

495+75

187.30

+ 18.8 0%

495+50

5.24 182.60

495+25 187.84
 + 18.87
 177.90

495+14⁷⁶
 X 11.86 175.98
 T.P. 12.86 174.98
 -0.03 174.95

494+85⁶¹
 X 6.07 168.88
 T.P. 12.73 162.22
 0.07 162.29

494+57⁸⁵
 X 1.74 160.55

494+28⁸⁹
 9.37 152.92
 152.95

10.80 161.88 T.P. 14.21 151.085

0.63 161.25 = check 07 B.M. # 78

493+99³⁷ 0.92 152.00
 151.08
 4.69 147.31

7/11/30
 Simpson
 Lecky
 Remmert

clear and warm

493+69⁵⁹

↑
V.C.

152.00

8.26 143.74
7.26 144.74 = cut 1st set on 4

493+39⁶²

X

9.77 142.23

493+00

10.40 141.60

+ 75

2.81 144.00

T.P. 10.80 141.72
10.81 141.19

492+50

↑
+ 1.6 070

3.17 140.80
2.17 141.83 = cut 1st set in Side Bank

492+00

7.00 140.00

491+50⁰³

X

4.80 139.20

B.M. # 79 - El = 184.89 - 200 Rt. Sta 494+65
A.V.

B.M. # 78 El = 161.26 - 35 Rt. 494+15
North edge of 1" Iron Pin

7/11/30 clear and warm
Simpson
Lee Ky
Remmen

491+20⁰⁵ 144.00
6.00 138.00

K.C.

490+90¹⁷ X
8.64 135.36

490+50
T.P. 13.16 130.84
13.17 130.83
0.60 + 131.43

490+00 X
T.P. 6.23 125.20
11.65 119.78
2.66 122.44

489+75
+ 15.40
121.35

489+50 X
T.P. 4.94 117.50
10.85 111.59
0.02 111.61

↑
7/11/30
Simpson
Lecky
Remmen

clear and warm



7/12/30
Simpson
Lecky
Remmen

clear and warm

↓

489+25 111.61 111.52

489+00 6.06 105.55

488+75 23.9%
X 12.03 99.58
T.P. 12.92 98.69
0.43 99.12

488+38 X 8.32 90.80
T.P. 12.99 86.13
0.80 86.93

488+00 16.424%
2.37 84.56

487+77³⁾ X 6.10 80.83

7/12/30
Simpson
Lecky
Remmen

clear and warm

↑ 86.93

↓

487+47⁵⁷

X

9.74 77.19

T.P. 12.93 74.00

0.84 74.84

487+25

75.35

487+00

1.52 73.32

486+75

71.28

486+50

5.59 69.25

+8.14570

486+25

X

7.64 67.20

7/12/30
Simpson
Lee Ky
Remmen

clear and wait

486+00 74.84 65.48

485+75 T.P. - 11.08 63.76
4.66 68.42

485+50 62.04

485+25 8.10 60.32

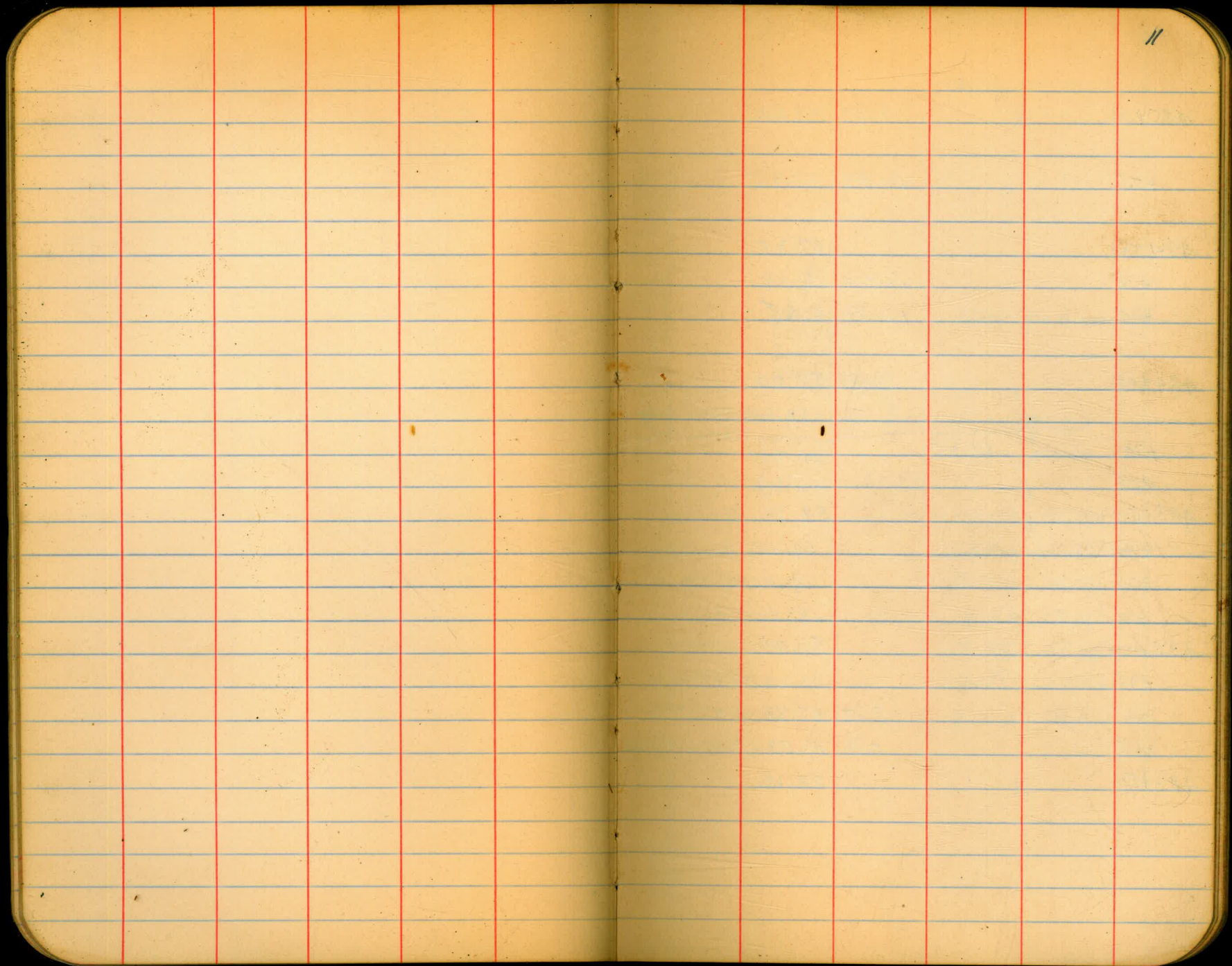
485+00 X 9.82 58.60

continued 3 pages Ahead This Book

7/12/30
Simpson
Lee Ky
Remmen

9
clear and work

B.M. #77 - El. = 61.60 - Nail in N.E.
Wing Wall - First
Pile N. End Bridge



//

68.42

485+00 X 9.82 58.60

+75 10.47 57.95

484+50 57.30

+38 11.43 56.99

+25 11.77 56.65

484+00 12.42 56.00

+70 6.82 61.60 = check on

+55 61.35 55.22

483+50 54.83

+40 54.70 54.70

+25 54.15

+10 54.05

483+00 53.66

+95 53.40

+80 53.27 ✓

+65 5.37 55.98 = " " "

482+50 5.76 55.59 = Pile cut off

X 52.10

+ 2.60

↑
7/12/30
Simpson
Loocky
Remmon

clear and work

B.M. 77 - Rec. E1. 61.60

61.60

5.22 66.82

55.09

11.73 10.84 55.98

10.45 56.37

10.06 56.76

9.67 57.15

9.28 57.54

8.89 57.93

8.50 58.32

End

Grade points for Pile cut-offs - Sweet-water crossing.

482+00

52.12

60.53

481+50

52.14

479+20 ²¹

5.18 55.35

479+35 ⁺³⁹

5.19 55.34

479+50 ✓

5.19 55.34

479+65 ✓

7/15/30

5.20 55.33

479+80

Simpson

5.21 55.32

479+95

Lecky

5.22 55.31

480+10

6.79

62.80

7.50 55.30

56.01 = B.M.

480+25

7/17/30

7.50 55.30

480+40

Simpson

7.51 55.29

480+55

Lecky

7.52 55.28

480+70

Remmen

7.52 55.27

480+85

6.07

61.35 T.P.

6.08 55.27

481+00

52.21

6.09 55.26

481+15

6.10 55.25

481+30

6.11 55.245

481+45

6.11 55.24

481+60

6.12 55.23

481+75

615

6.13 55.22

481+90 ✓

6.13 55.215

482+05

6.14 55.21

479+00

52.26

6.15 55.20

+20

+35

+50

55.20

0/0

0.04

1

X

-0.05 7/0

Grade Points for Pile cut-offs - Sweetwater Crossing.

478+50 52.28

56.01 = B.M. at 476+26

4.52 60.53

478+00 52.30

476+50

55.48

476+65

55.48

476+80

55.47

477+50 52.32

476+95

55.46

477+10

55.46

477+25

55.45

-0.05%

477+00 52.35

477+40

5.09

55.44

= check on previous work

477+55

5.10

55.43

477+70

5.11

55.42

477+85

5.11

55.42

476+50 52.38

478+00

5.12

55.41

478+15

5.13

55.40

478+30

5.13

55.40

478+45

5.14

55.39

478+60

5.15

55.38

476+00 52.40

478+75

5.16

55.37

478+90

5.17

55.36

479+05 ✓

5.17

55.36

7/5/30
 Simpson
 Remmen
 Butzine

Grade Points For Pile Cut-offs
 Across Sweetwater Valley

15

+60	52.42						
475+50	52.42					56.54	B.M. #76 - Top of west Flange Gate valve
+30	52.44				6.11	62.65	Pl. Sta. 471+19
				T.P.		5.31	57.34
475+00	52.45				4.02	61.36	
474+70	52.47		473+20			5.72	55.64 = check on Previous work
474+50	52.48		473+50			5.74	55.62 Set Hub at Cut-off Grade for Pile
			473+80			5.75	55.61
			474+10			5.76	55.60
			474+40			5.78	55.58
474+00	52.50 3.10 55.60		474+70			5.79	55.57
			475+00			5.81	55.55
			475+30			5.82	55.54
			475+60			5.84	55.52
473+50	52.52		475+90			5.86	55.50
			476+20			5.87	55.49
+35	52.53		476+50			5.88	55.48
+20	52.54					5.35	56.01 = set B.M. 5' 1/2 Sta. 476+26
473+00	52.55						

- 0.05 0.10

57.01
57.5

472+50

52.58

472+00

52.60

471+50

52.62

471+00

52.65

+60

52.67

470+50

52.68

469+95

12.81 52.71

11.81 53.71

11.81

52.71 = cut 12' set on 2

53.71 = cut 12' set at Sta. 470+12

6/30/30
Simpson
Remmen
Butzine

Grade Points For Pile cut-offs
Across Sweet-water Valley. 16

5.99 62.53

56.54 = B.M. #76
top of west
Flange Gate
Valve
Rt. Sta. 471+19

470+65

6.75 55.78
4.75 57.78

470+80

6.76 55.77 = set Hub at
Grade for
Pile cutoff

470+95

6.77 55.76

471+10

6.78 55.75

471+25

6.79 55.74

471+40

6.79 55.74

471+70

6.81 55.72

472+00

6.82 55.71

472+30

6.84 55.69

472+60

6.85 55.68

472+90

6.87 55.66

473+20

6.88 55.65

-0.05%

7/19/30
Simpson
Leaky
Butzine } 8.98

65.52

56.54

80
5.75
7.25
483+55
270+80
12.75
85
15 | 12.75
120
75
75

First Bent

set Hub 2' Above Pile cutoff.

set Hub at Grade for Pile cutoff

469+75

67.53

469+50

86.06

107.53 = B.M. #75

7/14/30
Simpson
Lecky
Remmen

clear and warm

↓

469+35

13.92 97.18

469+00

12.80 98.30

+79

12.13
11.13

98.97

99.97 = cut 19 set in
Side Bank

468+50

99.90

+46

11.07
10.07

100.03

101.03 = cut 19 set in
Side Bank

+12.9

10.01 101.09

468+00

9.60 101.50

B.M. #75 = 107.53 = El.

20' R+ sta. 468+00,

Nail in sill of Trestle #28

↑

- 74.117%

3.57

111.10

X

- 3.20%

	111.10		
467+50 ✓	T.P. 8.00	103.10	
10.33	113.43		
467+00 ✓	8.73	104.70	
	7.73	105.70	= cut 1 ^o set on 4
+75	7.93	105.50	
466+50		106.30	
+37	6.70	106.73	
+05	5.68	107.75	
466+00		107.90	
+73 ²	4.67	108.76	
465+50 ✓	3.93	109.50	
	T.P. - 1.04	112.39	
12.28	124.67		
465+00 ✓	10.17	114.50	
464+79 ⁸⁹ ✓	8.16	116.51	

7/14/30
Simpson
Lecky
Remmen

clear and worn

464+49⁹⁷

124.67

K.C.

5.92 118.75

464+19⁹⁸

X

5.17 119.50

463+75

5.17 119.50

463+25

0.0 0/0

5.17 119.50

462+80⁰⁹

X

5.17 119.50

462+50⁰⁵

4.42 120.25

7/14/30
Simpson
Leeky
Remmen

clear and write

↑ 124.67
V.C.
462+20 $\frac{13}{-}$ X 2.18 122.49

462+00 T.P. 0.17 124.50
11.64 136.14

461+50 ✓ $\frac{10}{-}$ 6.64 129.50

461+00 ✓ X 1.64 134.50
T.P. 0.15 135.99
11.82 147.81

+60 139.50

460+50 $\frac{10}{-}$ 7.06 140.75

+30 $\frac{12.5}{-}$ 143.25

460+00 ✓ X 0.81 147.00
T.P. 0.13 147.68

13.19 160.87

on 10' offset hub E1. = 129.36

7/14/30
Simpson
Lecky
Remmen

clear and warm

459+75 160.87 151.12

459+50 ✓ 5.62 155.25

459+25
 12.17 ✓ 172.64
 T.P. 0.90 160.97
 159.38

459+00 ✓ X 9.14 163.50
 T.P. 0.14 172.50

458+75 166.75

458+50 ✓ 2.64 170.00
 0.14 172.50
 12.61 185.11

458+14⁸⁹ ✓ X 10.55 174.56

↑
 7/14/30
 Simpson
 Leeky
 Remmen

clear and warrant

	4.83	↑	190.40	185.57
		K.C.		
457+84	<u>99</u>	X	13.37	177.03
457+50			12.15	178.25
		- 3.5%		
457+00		X	10.40	180.00
456+50			10.40	180.00
456+00			10.40	180.00
		0.0%		
455+50		X	10.40	180.00
			T.P. 12.51	177.89
	1.16		179.05	

22

B.M. # 74 = E1 = 185.57
 23' Rt. Sta. 457+00 - Top Air Valve

7/16/30
 Simpson
 Leaky
 Remmen
 ↓

Clear and wait

455+00 179.05 3.05 176.00

454+50 7.05 172.00

+27⁹¹ 8.82 170.23

454+00 168.00

+87 T.P. 12.09 166.96

+51⁴⁶ 0.79 + 167.75 3.62 164.13

453+50 164.00

453+30¹⁶ X 5.34 162.41

453+15¹⁸ V.C. 5.75 161.80
4.95 162.80 = Cat 12 set on 2

7/16/30
Simpson
Lecky
Remmen

clear and warm

453+00 ¹⁹ ✓ 167.75
 5.37 162.38
 4.37 163.38 = cut 12 set on
 4.

452+85 ²⁹ ✓ K.C. 3.61 164.14

452+70 ⁵⁸ ✓ X
 13.12 180.15
 T.P. 0.72 167.03
 0.69 167.06

452+50 ✓ X
 12.68 192.70
 T.P. 0.13 180.02
 8.15 172.00

452+25 -20.0% 177.00

452+00 10.70 182.00

7/16/30
 Simpson
 Lecky
 Remmen
 Clear and Warm

		192.70		
451+75			187.00	
451+50	✓	0.70	192.00	
		T.P.	0.09	192.61
	12.84	205.45		
	-20.0			
451+25			197.00	
451+00	✓ X	3.45	202.00	
		T.P.	0.10	205.35
	12.72	218.07		
		0		
450+75			206.50	
	-18.0			
450+50	✓	7.07	211.00	
		T.P.	0.32	217.75
	12.64	230.39		

7/16/30
 Simpson
 Becky
 Remington

450+25 230.39 215.50

7/16/30
Simpson
Lecky
Remmen

clear and warm.

450+00 ✓ 10.39 220.00

449+75 224.50

449+50 ✓ 1.39 229.00

T.P. 0.15 230.24

13.07 243.31

18.00

449+25 233.50

449+00 ✓ X 5.31 238.00

T.P. 0.02 243.29

11.81 255.10

448+50 ✓	255.10	11.60	243.50
+39 ⁵⁶	-11.09%		245.20
448+00 ✓	X	6.10	249.00
447+50 ✓	-4.09%	4.10	251.00
447+00 ✓	X	2.10	253.00
		T.P. 0.12	254.98
	12.02		267.00
446+50 ✓	-11.09%	8.50	258.50
446+00 ✓	X	3.00	264.00
		T.P. 0.12	266.88
	13.10		279.98

7/16/30
Simpson
Lecky
Remmen

clear and wait

279.98

445+75

268.12

445+50 ✓

7.73 272.25

0.29 279.69

12.64 292.33

445+25

276.38

445+00 ✓

11.83 280.50

- 16.50 90

444+75

284.62

444+44⁵⁰ ✓

11.72 301.37

T.P. = 2.68 289.65

↑
7/16/30
Simpson
Leeky
Remmen

Clear and Warm

7/17/30
Simpson
Leeky
Remmen

↓
Clear and Warm

444+19⁷⁸ ✓ 301.27 7.64 293.73

443+84⁸⁸ ✓ X 5.19 296.18

443+54⁸⁹ ✓ X 4.37 297.00

T.F. 4.38 296.99
9.60 306.59

0.00%

441+25 X 9.59 297.00

B.M. #73 - E1. = 305.64

33' Rt. Sta. 443+37 A.V

7/17/30
Simpson
Lecky
Remmen

clear and Warren.

441+00 306.59 7.79 298.80

440+50 4.19 302.40

440+00 0.59 306.00

11.32 317.38

439+50 7.78 309.60

439+00 4.18 313.20

438+50 T.P. - 0.58 316.80

12.71 329.51



7/17/30
Simpson
Lecky
Remmen

Clear and warm.

7/18/30
Simpson
Lecky
Remmen

Clear and warm.

	329.51		
438+00		9.11	320.40
437+50		5.51	324.00
		4.51	325.00 = cut 10¢ off in SWB Bank
	7.2%		
437+00		1.91	327.60
436+75	X	0.12	329.39
	7.45		336.84
	0%		
	0		
	0		
434+70 ⁰⁴	X	7.45	329.39

7/18/30
Simpson
Lee KY
Remitted

Clear and warm

X

434+40⁰⁴ 336.84 6.99 329.85

434+10⁰⁷ KG 5.61 331.23 ✓

433+80¹⁶ X 3.32 333.52

433+50 T.P. - 0.55 336.29
12.11 348.40

433+00 9.2.0%
- 7.51 340.89

432+50 2.91 345.49
T.P. 0.60 348.40
10.46 358.86

7/18/30
Simpson
becky
Remman

clear and warm

432+00	↑ 358.86 9.2%	8.77	350.09
431+50	X	4.16	354.70
	12.84	T.P. 371.47	0.23 358.63
	5.42	T.P. 376.63	0.26 371.21
	0.70	374.63	2.60 374.03 = check on 373.93 = Record El.
431+00	2.26	T.P. 368.57	8.3 366.31 357.00
431+15		12.26	356.31 =
		11.26	357.31 = cut 1" out in side Road
+76 ³		10.48	358.09
430+50		9.48	359.09 = cut 1" out at 10' side Road
		9.27	359.30
		8.27	360.30 = cut 1" out at 10' side Road
430+30			360.22
430+00	X	6.87	361.60
429+50		T.P. 6.90	361.67
		T.P. 6.71	361.66
	11.83		373.49

7/18/00
Simpson
Lecky
Remmen

clear and work

B.M. # 71

B.M. # 71 - Elev = 373.93

30' Pt. Sta. 430+00 (Top Air valve)

429+00	373.49	11.76	361.73
	-0.133%		
428+50	X	11.69	361.80
428+00		10.49	363.00
427+50	-2.40%	9.29	364.20
427+00		8.09	365.40
426+75	X	7.49	366.00
		3.49	370.00 = cut 9° set on 2

↑
7/18/30
Simpson
LeeKY
Remmer

clear and warm

4.89 378.82 373.93 = B.M. # 71 Rt. Sta. 430+00 A.V.

426+50

12.72
11.72

366.10

367.10 = cut 12 set in
Side Bank.

7/10/30
Simpson
Remmen
Butzine

clear and warm.

426+00

12.52 366.30

425+50

12.32 366.50

425+00

12.12 366.70

- 0.40 070

424+50

T.P. - 11.92 366.90

5.99 372.89

424+00

5.79 367.10

423+50 372.89 5.59 367.30

423+00 5.39 367.50

422+50 - 0.40% 5.19 367.70

422+25 X 5.09 367.80

422+00 + 5.6% 6.49 366.40

421+50 9.29 363.60

421+00 X 12.09 360.80

7/10/30
Simpson
Remmen
Butzine

Clear and WORTH

372.89

T.P. - 12.07 360.82

4.37 365.19



0.0

0.0

2.39 360.80

4.39 360.80

418+25



4.39 360.80

418+00

5.88 359.31



7/10/30
Simpson
Remmen
Butzine

clear and warm

417+50

0.0

5.95

+

T.P. 8.86 356.33

4.76 364.07

359.31 = Good Point
at Sta. 418+00

7/19/30
Simpson
Loopy
Butzine

clear and warm

417+00

10.72 353.35



P.M.

416+70⁹⁹



12.49 351.58

416+40⁰⁶ 364.07 13.40 350.67

416+10⁰⁷ K.G. 12.52 351.51

415+80¹⁸ X 9.97 354.10

415+50 6.47 357.60

415+25⁻ -11.60 070 360.50

415+00 0.67 363.40

T.P. 0.67 363.28

10.58 373.96

414+64⁹³ X 6.47 367.47

P.M.
7/19/30
Simpson
Lecky
Butzinc

clear and warm

414+34²⁸↑
0
↓ 373.96

X

4.76 369.20

0.0
0.0
0.0413+70¹⁹

X

4.76 369.20

413+40²¹

5.84 368.12

413+10³⁸↑
0
↓

9.09 364.87

T.P. 17.64 361.32

0.52 361.84

412+80⁸⁷

X

2.35 359.49

B.M. # 70 - E1. = 376.80

60' Rt. Sta. 414+40 (Top Air Valve)

7/19/30
Simpson
Lecky
Butzine

clear and verify

P.M.

411+00 334.85 8.25 326.60

7/22/30
Simpson
Leeky
C. Bliss

clear and warm.

410+50 8.22 322.50
6.62 323.12
↑
%

410+00 X 4.72 318.90

409+50 6.51 316.61

409+00 8.30 314.82
7.30 315.82 = cut 15'
set on E
↑
3.58 %

408+75 9.20 313.92

408+45⁰³ X 10.27 312.85

408+15¹² 323.12
T.P. 12.32 310.80

0.61 311.41

U
V

407+85⁹² X 4.83 306.58

+55¹⁸

407+50

10.27 301.14 = set to Grade

11.20 300.24 set to Grade

18.00%

T.P. 12.82 298.59

0.89 299.48

407+25

3.77 295.71

2.77 296.71 = cut 10
Set in side
bank

407+00

X

8.28 291.20

T.P. 12.69 286.79

0.23 287.02

406+75

285.58

7/22/30
Simpson
Lecky
C. Bliss

clear and warm

518
18
414
518
932

		287.02	
406+50			7.06 279.96
	↑	T.P.	13.01 274.01
	0.19	279.20	
406+25			274.34
	+ 22.5 %		
406+06			5.50 268.70
		T.P.	12.93 261.27
	0.66	261.93	
405+75			263.08
	+ 22.5 %		
405+50			4.47 257.46
		T.P.	12.76 249.17
	0.45	249.62	
405+25			251.84
405+00	X	3.42	246.20

7/22/30
Simpson
Weeky
C. Bliss

Clear and Warm

404+75 249.62 239.60

T.P. 12.86 236.76
0.88 237.64

404+50 4.64 233.00

T.P. 13.00 224.64
0.51 225.15

404+25 226.40

+ 26.40 070

404+00 5.35 219.80

403+89⁵³ X 8.11 217.04

T.P. 12.55 212.60
0.67 X 213.27

403+61⁰⁰ X 5.54 207.73

7/22/30
Simpson
Lee Ky
C. Bliss

clear and warm

403+25	0.25	↑ 13.27 200.57	12.95	200.32
			6.90	193.67
			T.P.	12.86 187.71
402+90	0.33	+ 39.06% 198.04		
		X	8.04	180.00
			7.04	181.00
				= cut 12 Set in side Bank
402+50			8.55	179.49
402+00		+ 1.28%	9.19	178.85
401+65		X	9.64	178.40
401+50		- 1.28%	9.45	178.59
			$\frac{3}{5.7}$	

7/22/30
Simpson
Lucky
C. Bliss

clear and warm

188.04
401+00 8.81 179.23

7.09 179.18 = check on
Grade Nub Sta.
401+00

400+50 1.28%

6.40 179.87

400+90 X

6.27 180.00

400+25

185.98

0.58

186.27

T.P. 12.89

185.69

400+00 X

2.62 195.96

0.11

198.58

T.P. 12.87

198.47

399+92 $\frac{02}{1}$ X

12.25 199.09

211.34

B.M. #69 = E1 = 184²⁶ - 60' Rt. Sta. 401+14

Spike in west side of wooden Blow-off Box

↑
7/22/30
Simpson
Leeky
C. Bliss

clear and warm

7/23/30
Simpson
Leeky
C. Bliss

clear and warm

↓

399+63⁷⁷

2.16 209.18

0.52 211.34

T.P. 12.71 210.82

399+34⁹⁶

K

5.99 217.54

0.62 223.53

T.P. 12.80 222.91

399+05⁷⁰

X

11.57 224.14

399+00

225.24

398+75

-19.4⁹⁶

5.61 230.10

398+50

0.76 234.95

235.71

7/23/30
Simpson
Lecky
C. Bliss

clear and warm

398+25	↑		239.80
0.50	19.4%	235.71	
		T.P. 12.96	235.21
398+00	X	3.52	244.65
397+75			251.50
0.41	27.4%	248.17	
		13.12	247.76
397+50		2.53	258.35
397+25			265.20
0.63		260.88	
		T.P. 12.89	260.25
		273.14	

7/23/30
 Simpson
 Weekly
 C. Bliss

clear and warm

397+00 ↑ 1.09 272.05

0.50 273.14

↑
274.90
-

T.P. 12.87 272.64

396+75 X 6.61 278.90

0.16 285.51

T.P. 13.00 285.35

396+50 12.10 286.25

396+25 293.60

0.53 298.35

↑
299.90
-

T.P. 12.99 297.82

396+00 9.86 300.95

↑
310.81

7/23/30
Simpson
week
C. Bliss

clear and warm

395+75 2.51 308.30

0.07 310.81

395+50

T.P. -12.86 310.74

7.95 315.65

0.32 323.60

T.P. 12.87 323.28

395+25

X 13.15 323.00

395+00

7.61 328.54

1.15 336.15

T.P. 13.02 335.00

394+75

- 22.13 334.08

394+50

X ↑
348.02

8.42 339.60

7/23/30
Simpson
Loeff
C. Bliss

clear and warm

394+25

343.70

0.85

348.02

T.P.

12.92

347.17

394+00

13.29 346.80

- 14.4%

393+75

350.40

393+50

X

6.09 354.00

393+00

- 8.0%

2.09 358.00

Set to Grade
in side Bank

0.63

360.09

T.P. 12.91

359.46

392+50

X

10.37 362.00

9.37 363.00

Cut P. set
in side

1.66

372.37

370.71 = B.M. #68

7/23/30
Simpson
Weeky
C. Bliss

clear and warm

B.M. #68 - E1 = 370.71

60' Rt sta. 393+21 - Top A.V.

↑

7/23/30
Simpson
Weeky
C. Bliss

clear and warm

(Note: Level notes are carried up the pages from

Here to sta 401+00)

448 367.48 363.00 = cut 1st stake at 392+50
 392+00 5.04 362.44

391+50 4.59 362.89

391+00 4.14 363.34

3.92 363.56

390+50 3.70 363.78

390+25 X 3.48 364.00

390+00 3.08 364.40

389+75 2.68 364.80

T.P. 2.70 364.78

9.85 374.63

7/23/30
 Simpson
 Becky
 C. Bliss

clear and warm

		374.63	
389+50	1.6%	9.43	365.20
+25	-	9.03	365.60
389+00	X	8.63	366.00
+75		7.49	367.14
388+50		6.35	368.28
+25		5.21	369.42
388+00		4.07	370.56
+75	4.56%	2.93	371.70
387+50	-		372.84
+25	T.P.	0.65	373.98
	8.45	382.43	
387+00		7.31	375.12
386+50	X	5.03	377.40

7/23/30
 Simpson
 Becky
 C. Bliss

clear and warm

386+00	↑	382.43	3.83	378.60
385+50	↑		2.63	379.80
	↑		1.63	380.80 = Cut 1 st set in 5 no Banks
	↑	3.33		384.13
385+00	X		2.13	381.00
384+50	↑		4.38	379.15
384+00	X		5.63	378.50
383+50	↑		7.88	376.25
383+00	X		10.13	374.00

↑
7/23/30
Simpson
Lecky
C. Bliss
Clear and warm

B.M. # 67 - E1 = 390.93
60' Pt. 385+16 Top of A.V.

7/24/30
Simpson
Lecky
C. Bliss
Clear and warm

↓

384.13

55

382+50

10.93 373.20

7/24/30
Simpson
becky
Bliss.

clear and warm

382+00

11.73 372.40 ✓

T.P. 11.57 372.56

2.37 374.93

381+50

3.33 371.60

90
+ 1.6

381+00

4.13 370.80 ✓

380+65⁰¹

X

4.70 370.23

0
+

380+35⁰¹

X

6.50 368.43

380+00 374.93 10.18 364.75

T.P. - 12.82 362.11
1.74 363.85

379+50 4.35 359.50

379+00 + 10.50% 354.25

378+74⁹² X 10.13 353.72

378+65⁹⁵ 12.04 351.81

378+35⁰⁶ 40 11.53 352.32

378+05²⁰ X 8.58 355.27

7.58 356.27 = 10' set on E

7/24/30
Simpson
Lecky
Bliss

377+79 ⁷⁶ 363.85
5.02 358.83

377+49 ⁹³ C
V
8.18 370.53
T.P. 1.50 362.35

377+19 ⁹⁴ X
7.53 363.00

377+00 %
0.0
7.53 363.00

376+50 X
7.53 363.00

376+00 -6.70 70
4.18 366.35

375+50
0.83 369.70
T.P.O. 80 369.73

7/24/30
Simpson
Lecky

	9.29	379.02	369.73
375+00		5.97	373.05
	-6.70%		
374+50	X	2.62	376.40
374+00		T.P. - 2.62	376.40
	0.00%		
	3.60	386.80	383.20 - B.M. #66
373+65 ⁰¹	X	10.40	376.40
	V.C.		
373+35 ⁰⁶	X	11.92	374.88
		T.P. 13.12	373.68
	1.55	375.23	
	-10.20%		
373+00		3.93	371.30
372+64 ⁹⁹	X	7.51	367.72

B.M. #66 = El. = 383²⁰

60' Rt. Sta. 374+29 - Top A.V.

↑
7/29/30
Simpson
becky
Bliss

clear and warn

7/26/30
Simpson
becky
Bliss

clear and warn

↓

$372+34$ ⁹⁸
 \downarrow V.C.
 \times 375.23
 9.11 366.12

$372+00$
 3.66 369.60
 T.P. 9.29 365.94

$371+50$
 3.90 365.70

$371+00$
 + 0.50 0.70
 4.15 365.45

$370+50$
 \times 4.90 365.20

$370+00$
 + 6.40 0.70
 7.60 362.00

7/26/30
 Simpson
 Lecky
 Bliss

Clear and warm

369+50	369.60 6.4 X	10.80	358.80
369+30 ⁰¹	X T.P. 10.28 367.80	12.08	357.52
369+00 ⁰²	V.C.	10.98	356.82
368+70 ⁰³	X	9.24	358.56
368+50		7.26	360.54
368+00	9.88 9.21 - T.P. 374.69	2.32	365.48
367+57 ⁷⁸	X	5.01	369.68

↑
7/26/30
Simpson
Lecky
Bliss

clear and warm

7/29/30
Simpson
Lecky
Bliss

clear and warm

↓

B.M. # 65 E1 = 375.91

Rt. Sta. 367+63 - Top of Air Valve

367+27 ⁵⁴ 374.69
 3.17 371.52

366+97 ⁵⁴ V.C.
 3.57 371.12

366+67 ⁶⁵ X
 6.20 368.49

366+50 8.42 366.27

+ 12.56 ⁰⁷⁶ 12.82 361.87 = check on Grade Hub at sta. 366+14 ²⁰

366+25 363.13.
 375.91 = B.M. [#] 65

2.75 378.66
 T.P. 12.82 365.84

0.33 366.17
 366+14 ⁹⁰ X 4.30 361.87

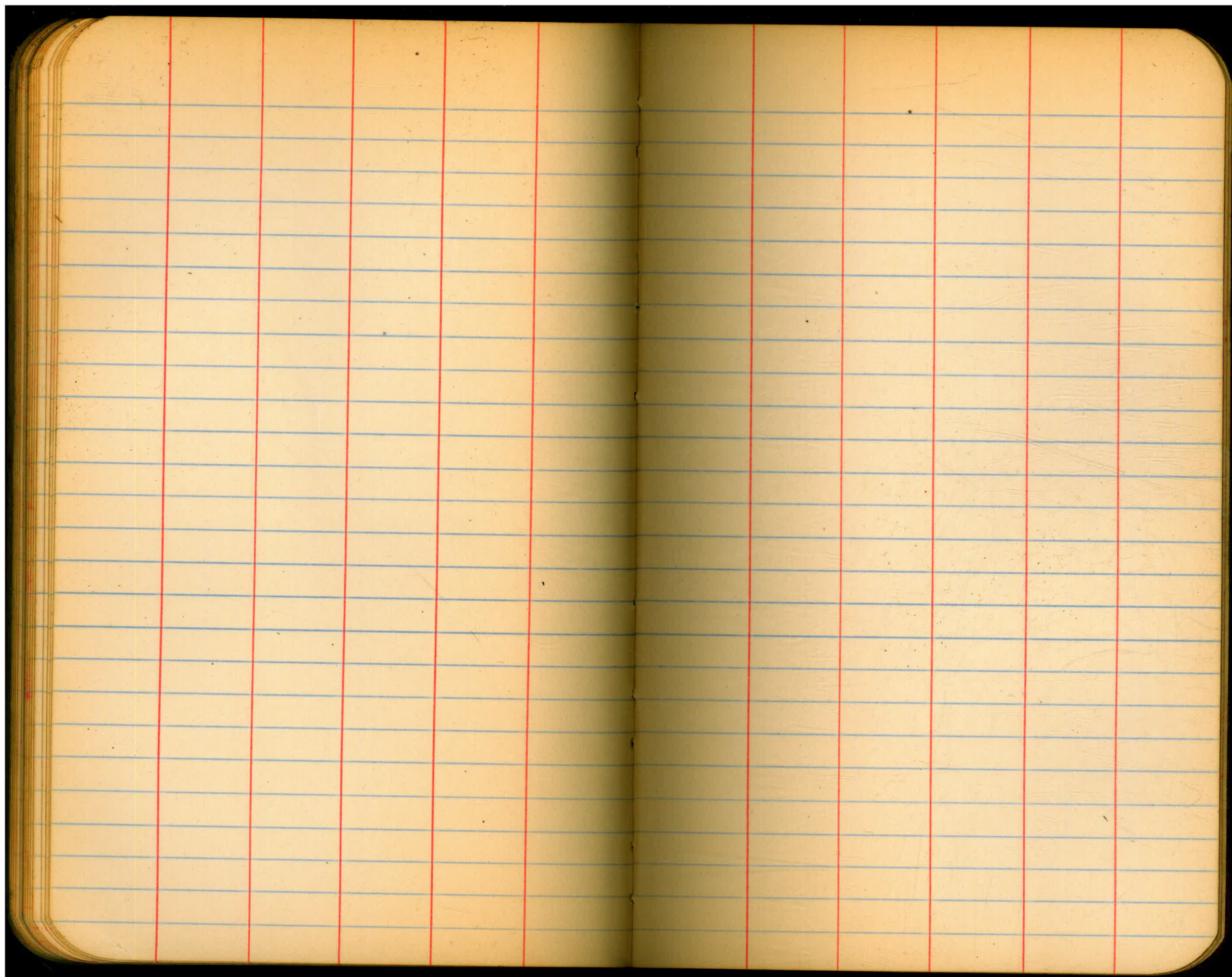
↑
 7/29/30
 Simpson
 Deeky
 Bliss

clear and warm

7/26/30
 Simpson
 Deeky
 Bliss

clear and warm

↓



DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope $1\frac{1}{2}$ to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body

IMPROVED TABLES
AND
INFORMATION

TABLE No. 2.

To find tangent and External for curve of any other degree, divide by degree of curve and add connection found in column of connections. Degree of curve with a given E may be found by dividing tangent (or external), opposite E by 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.

$$D = 16''$$

$$485 + 43 \overline{) 75''}$$

$$485 + 25 = 1^{\circ} 30'$$

$$485 + 00 = 3^{\circ} 30'$$

$$484 + 15 = 5^{\circ} 30'$$

$$484 + 50 = 7^{\circ} 30'$$

$$484 + 25 = 9^{\circ} 30'$$

$$484 + 00 = 11^{\circ} 30'$$

$$483 + 92 \overline{) 38''} \text{ P.C.} = 12.08$$

$$\begin{array}{r} 1875 \\ \underline{48} \\ 15000 \\ \underline{7500} \\ 70000 \end{array}$$

$$\begin{array}{r} 48 \\ \underline{8} \\ 384 \end{array}$$