

15

*Final Topography*

BARRETT DAM  
LEVEL BOOK

380

W132

MICROFILMED

13  
X  
13  
27

# Index

	Page
Downstream Face Curtain Wall.	1
AT-38-325 Final Topog - 1465-1460	2-3
about 25-407 - Fillet El. 1488 <del>2</del>	3
Final Topog	4
Fillet Elev 88 <del>5</del>	5
Final Topog - El. 1500 - 1505	6
Fillet Elev 1504.7	7
Final Topog - At 38-325 - + C 41 - 1460-65-70	8
Final Topog At C 41 - 1460-65-70	9
Final Topog At C 46 - 1475-80-85	9
Final Topog At C-4+75 - Auxil "A" { Elev <sup>1495</sup> <sub>1500</sub> 1505	10-11
Final Topog At 46-414 <sup>25</sup> Elev 1495-1511	12
Final Topog At 50-419 <sup>25</sup> Elev 1510-1520	12
Location Lift #3 Curtain Wall	13
Fillet Elev 1418 - At C 23	14
Final Contours At C 23 Elev 1510-1520	14
Location of Forms of 16" pipe thru Dam	16
Final Topog At 24-185-1450-1455	17
Final Topog At 24-227 <sup>25</sup> { 1440-1445	17
Final Topog At Auxil Pt "1" from 24-227 <sup>25</sup> { <sup>1430</sup> <sub>1435</sub>	18
" " At Auxil Pt "1" from 24-227 <sup>25</sup> Elev of Bottom	19
Final Topog At " " 2 " 24-227 <sup>25</sup> { <sup>1435-45</sup> <sub>1440-50</sub>	19-20
" " At 24-250 - 1455 - 1460	20
" " At 24-227 <sup>25</sup> { 1440-1445	21

Index		Page
Final Topog At 17-411 19	{ 1430 1440 1435 1445	22
" " At Auxil from 18-411 19	{ 1430-1435 1525-1520	22
" " At 24-383 58	{ 1515-1510	23
" " At Auxil from 353 58	{ 1505-1500	24
" " At Auxil #2 " 383 58	{ Elev - listen	25
" " check on Elev -		25
" " At Auxil #3 from 383 58	{ 1425-1430	25-26
" " At 34-274 14	1460-1465	27
" " At Auxil from 34 274 14	{ 1455	28
" " " Auxil #2 " "	1450	28
" " At 34-366 58	1480-1485-1490	29
" " At 34-371 58	1495	29
Final Concrete At 24-250		30
Final Topog At Auxil from 34-274 14	{ 1475	30
" " Outlet Tower	{ 1501 =	31
" " At 38-250	1490-1495	32
" " At 42-250	1500	32
" " At Auxil from C 4+75	{ 1495 1505	32-33
" " At Auxil B from C 4+75	{ 1510-1515 1520-1525	33
" " At 18-411 19	{ 1540-1545 1550	34
" " Outlet Tower	{ 1505-1510	34
" " " " "	1520-25-30	35
Concrete At Auxil Pt #3 from 24-383 58		35
Inspection Gallery Pts -		35
Elev - of Narrows -		35
Location of Grout Hole		35

Form Lines		Page
Final Topog At Auxil C from C-4+75	{ 1495-1490 1510-1490	37-39
" " At Auxil D " " " "	{ 1475 1480-1485	39
" " At Auxil A " " " "	1505	40
Concrete wall Outlet Tower		41
Fillet Outlet Tower		42
Auxil Pt E from C 4+75	Elev - 1499 53	42
Final Topog At 50-371 29	1500-1505	43-44
Grout Hole 12-13	Concrete Outline Final Contour 1503	45
Final Topog At Auxil from 50-371 29	1510	46
Forms Lines		46
At C 4+90 - Contour	1510-20-25-30	47
At 52-468 4 - "	1525-30	48
At 54-434 49 "	1535-40	48
Concrete Topog -	1505-1505 E	49
At 12-455 79	Contour 1585	50
At 12-455 79 - "	1585-90	51
At 12-502 07	1595-160-05	51-52
At 10-446 58	Contour - 1595-95-160-	52-53
At Auxil #A from 12-502 09	Contour 1605-10-15	53-54
" " B " " " "	Contour 1520-25	54-55
" " C " " " "	25-30	55-56
At 6-470 65	Contour - 1610	56
At 8-450	1601 85	57
At 10-446 58	1590 00	57-58
At 12-502 09	1600	58
At Auxil B from 12-502 09	Contour 1620-25	58
At Auxil A from 50-371 29	1515-1510	59-60
" " B " " " "	1495-1500-05	60-61
" " D " " " "	1490-1488	61
" " E " " " "	1510-1515	62
Location of Form At 6+03 91		62
Location of Fillet At 50-419 29		62

Sections for additional yardage  
in 60' higher Dam - East 63-64

Sections for additional yardage  
in 60' higher Dam - West 65

Final Contours - At C 5+90 - El. 1520 66

" " At C 6+10 El. 1520 66

Outline of Concrete at C+10 El. 1516 67

Key ways for Curtain Walls to  
be added to Concrete East -

March - 1921

Filled  
3-15-21

10/2/20  
Fisher

Downstream Face Curtain Wall

Mixer At 0+50 E Gallery Sight 00=

Outlet E Gallery 0+50 R.C.	392'	Radius for zero = AZ RT	8.73	74.66	65.93
Top Both R.C.	51.0	290.30	0.5	74.2	
	47.1	292.30	8.2	66.5	
	38.0	299.10	0.6	74.1	
	30.2	310.0	7.1	67.6	
	24.0	326.45	0.7	74.0	
			7.3	67.3	
			0.7	74.0	
			6.9	67.7	
edge gallery	20.8	351.30	0.8	73.9	
edge gallery	20.4	<del>6</del> -0	8.3	66.4	
	23.6	31-30	0.8	73.9	
	27.0	42-45	8.2	66.5	
			0.8	73.9	
			7.5	67.2	
			0.7	74.0	
			7.5	67.2	
end of form	37.2	60-0	0.7	74.2	
			7.0	67.7	

10/14/20

Sub  
Fisher  
Mixer

Final Topog -

363  
26  
76

At 38-325 Sight Center-Zero At Right

Rod 136

RC 35.1 277-15 ✓

RC 32.9 271-0 ✓

RC 26.4 274-45 ✓

RC 22.7 288-30 ✓

RC 20.5 289-15 ✓

RC 19.6 292-0 ✓

RC 22.0 299-0 ✓

RC 20.9 305-20 ✓

RC 23.9 308-0 ✓

RC 25.0 333-10 ✓

RC 21.8 326-45 ✓

RC 22.9 335-30 ✓

Both Elev 25.8 339-0 154 58.2

" " 25.5 305-15 148 58.8

" " 26.0 284-0 144 59.2

Rod 136 21.4 240.0 ✓

1460 14.4 235°40' ✓

" 9.1 233° ✓

" 7.8 245° ✓

" 5.6 278° ✓

" 7.4 324'30" ✓

" 12.5 322° ✓

" 14.5 343° ✓

" 16.0 343°45' ✓

0.81 73.63 1472.82

Rod 86

1465 1465

" 1465

" 47.7 3-30 ✓ 45.2 294-0 ✓

" 47.2 358-0 ✓ 42.8 290-40 ✓

" 45.5 355-45 ✓ 42.1 283-45 ✓

" 43.5 349-15 ✓ 42.6 282-0 ✓

" 42.5 347.45 ✓ 41.9 280-20 ✓

" 40.3 337-30 ✓

" 40.7 336-30 ✓ Rod 136 1460

" 41.3 334-0 ✓ RC 27.2 346 ✓

" 42.1 333-0 ✓ RC 29.0 338 ✓

" 41.1 327-45 ✓ RC 27.9 331-45 ✓

" 42.1 324-30 ✓ RC 28.9 328-30 ✓

" 41.9 322-15 ✓ RC 27.0 326-15 ✓

" 41.5 321-20 ✓ RC 28.7 315-15 ✓

" 41.5 319-0 ✓ RC 28.2 314-0 ✓

" 40.4 318-45 ✓ RC 28.7 300-0 ✓

" 42.4 307-30 ✓ RC 26.8 296-30 ✓

" 44.7 302-20 ✓ RC 27.0 292-0 ✓

" 44.7 298-30 ✓ RC 28.9 286-30 ✓

" 42.5 298-0 ✓ RC 28.9 282-0 ✓

DIST	AZ.
16.8	352°
19.8	353°

10/14/20

Bob  
Fisher  
Mixer

Fillet

At B 28 - Sight Center for Zero Az RA

B 28                      4.30    1492.75                      1488.45

Average Elev -                      4.5                      88.3

Bot 54.8    26.30

Top 56.9    30.15

Bot 45.6    47.0

Top 50.1    47.10



10/23/20  
Bub  
fisher  
mixer.

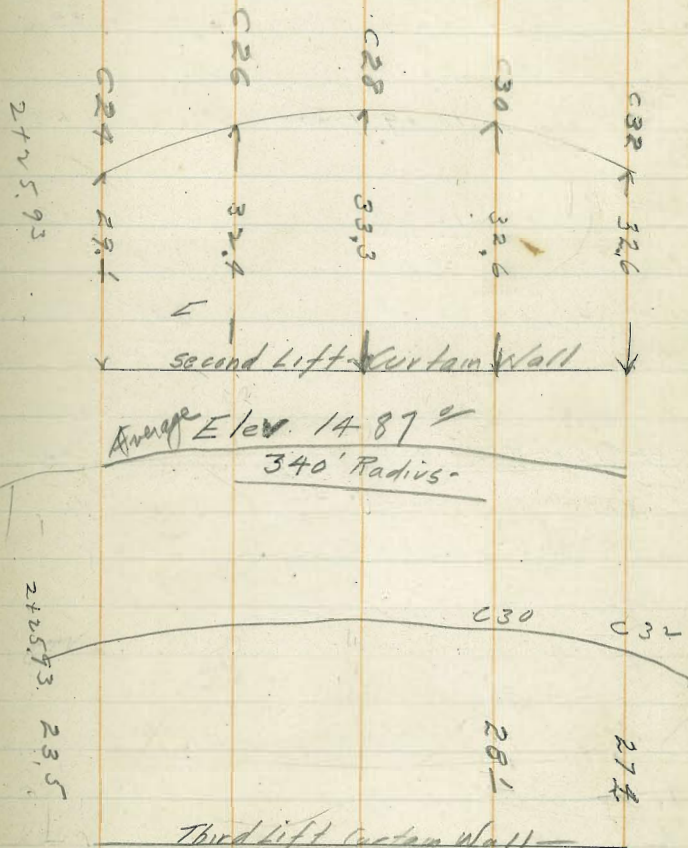
Final Topog

44- 8.63 1500.33 1491.70  
BM about 8.41 1491.72  
8-29-Top of Rock 5.99 1494.34  
T.P.

At C 26 - Sight C18 for zero Az R1

Rod 5.4	1.05	95.39	1494.34		
1490	26.8	46-0	1495	33.5	342-0
"	27.3	38-0		32.1	350-0
	26.8	22-30		33.3	357-0
	24.6	8-0		32.6	7-30
	24.0	345-45	ret 42	31.7	18-10
	31.3	327-10		29.2	31-0
	32.3	322-15		28.0	36-30
end of form	39.4			28.5	60-0
	36.4	316-10			
	40.9	314-0			
	42.6	310-0			
			Grout Hole		
Rod 0.4	41.6	316-30	Reel 7.7	19.7	333-30
1495	39.9	319-0		11-	87.7
	38.7	318-0			
	33.6	325-0			
	32.1	327-30			
	31.3	335-0			

Location 2<sup>nd</sup> Lift. D.S.F.  
Curtain Wall.



Begin  
Bub  
Fisher  
Mixer

Final Topog  
Fillett

At 2+25.01 - 392' Radius  
Sight Center for Zero Az ~~Left~~

Near B-29		150211	1491.92
B M	10.19	1493.01	<del>1472.82</del>

Top Form	33.0	114-10	4.10	98.01
			<del>78.91</del>	

Bot Form			13.6	88.5
			<del>7.5</del>	

Top Form	41.3	146-40	3.95	98.16
----------	------	--------	------	-------

Bot Form			8.5	
			<del>4.5</del>	94.26

Inspection Gallery

2+38.3- 1502 41

6.06 96.05

FB-4 7/8

10/29/20

Bryson  
Fisher  
Mixer

## Final Topog

At C 2+39.51 Sight C30 for zero

Az ~~Left~~

Auxil 23.81 50°-50'

Near B-29

BM

T.P. Nail

8.65 00.57 1491.92

3.49 97.07

At Auxil Pt Sight C-2+39.51 for

Zero Az Right.

Nail

T.P.

F. 63 1505.71 97.05

Rod. 5.7 Dist. Azimuth Dist Az

1500 51.4 18°30' ✓ 13.4 103°14' Bot. of form on Contour

48.4 19°30' ✓ 4.4 132°40' ✓ along form

44.2 23° ✓ 3.9 54°15' ✓

37.1 25°15' ✓ 2.5 331° ✓

33.6 22°30' ✓ 4.1 274°30' ✓

31.1 27°30' ✓ 7.0 265°45' ✓

28.7 27° ✓ 10.8 253°45' ✓ along form.

27.5 30°15' ✓ El. 1499.3 13.3 254° ✓ end of back form elev. 1499.3

21.5 36°45' ✓ Rod 10.3 El. 1498.40 14.2 42°45' ✓

17.7 42°45' ✓ Rod 9.5 El. 1498.20 12.6 78°15' ✓

15.2 59° ✓ Rod 9.7 El. 1496.8 12.0 38°30' ✓

13.5 84°15' ✓ Rod 0.71 13.7 98°45' ✓

13.0 100° ✓ El. 1505

Rod. 0.71

V

1505 Sta Az.

13.5 88°15' ✓

15.4 66°30' ✓

21.0 53°45' ✓

28.1 41°45' ✓

28.5 30°30' ✓

32.0 30°30' ✓

32.5 26°30' ✓

GAP

45.4 25°30' ✓

50.5 22°30' ✓

53.5 21° ✓

55.5 21° ✓

59.9 18° ✓

11/5/20

Bryson  
Fished

- Fillett -

Transferred from Book 14 Page

Top of Form	5.94	1514.16	1508.22	
U.S.F. Form	39.0	31-30	10.6	03.6
P.C. Form	27.0	358-0	10.6	03.6
P.C.	20.4	0-0	10.1	04.1
P.C.	17.6	356-45	10.0	04.2
P.C.	12.0	2-45	10.1	04.1
P.C.	10.5	10-45	9.9	04.3
P.C.	16.4	34-45	9.5	04.7
P.C.	14.5	47-45	8.8	05.4
P.C.	15.9	57-0	8.5	05.7
P.C.	11.3	80-15	8.4	05.8
P.C.	15.4	97-30'	8.0	06.2
U.S. Face P.C. Form	107.08		5.9	08.3
Average Elev.			9.4	1504.7 ✓

7

11/12/20  
Bub  
Fisher.

Final Topog

At 38-325 Sight 38-250 for  
Zero Az Right

Top of Rock 7'-E of 34-329	1.09	73.91		1472.82
Rod 13.9				
14 60	21.0	239-30	Rod 89 1465	38.5 237-15 ✓
"	26.4	238-15	"	38.6 241-45 ✓
"	25.8	235-30	"	41.7 247-0 ✓
"	27.0	227-15	"	39.8 257-30 ✓
"	28.3	223-30	"	45.8 272-15 ✓
"	29.6	223-0	"	44.3 274-30 ✓
"	32.8	223-0	"	43.5 280-15 ✓
36.8	206-15	bullet shot	41.7	279-30 ✓
39.4	204-0			
40.8	203-0	Rod 3.9 1470	46.1	264-10 ✓
44.2	204-45		43.7	253-30 ✓
49.5	204-30		43.5	247-45 ✓
48.6	201-45		45.0	246-0 ✓
			45.2	238-30 ✓
Rod 8.9 1465	49.3	219-30	48.6	240-45 ✓
"	45.0	225-30	50.5	237-0 ✓
"	36.6	210-15	T.P	3.91 1470.0
"	35.9	212-30		
"	33.2	217-15		
"	33.1	232-0		

at 2  
11/12/20  
Bub  
Fisher.

At C 41 Sight C 46 for Zero Az Right.

T.P	1.91	1471.91	1470.0
Rod 1.91			
1470	49.8	63-45	✓
	45.3	63-30	✓
	41.2	57-0	✓
	38.2	58-0	✓
	36.2	53-0	✓
	37.5	45-0	✓
	31.4	42-0	✓
	29.1	33-15	✓
	29.9	29-45	✓
	27.2	27-0	✓
	25.7	32-30	✓
	20.1	22-15	✓
T.P	2.44	69.47	

See next Page

11/12/20  
Bub  
Fisher

At C 41 Sight C 46 for Zero Az Rt.

(See Page 8)  
T.P.

Rod 18

1470	19.6	8-30	Rod 11.8		
	15.8	1-30	1460	31.5	105-20
	7.9	330-15		28.5	112-30
	11.4	328-30		25.8	115-30
	10.4	316-15		23.5	108-15
		(add)		21.7	92-45
				14.7	90-30
Rod 68 concrete 1465	12.8	46-45		11.1	69-30
	15.4	51-0		10.0	56-30
	19.4	30-0			
	21.6	35-30			
	23.3	44-45			
	27.6	49-30			
	30.8	58-0			
	32.7	71-30			
	34.5	71-45			
	37.7	78-0			
	41.8	79-30			
	41.9	86-30			
	43.2	97-30			

Plat Head  
11/14/20

11/12/20  
Bub  
Fisher

9

At C 46 Sight C 46-250 for Zero Az Rt

46-338

Rod 12.4

1475

	6.00	1487.42		1481.42	
	46.5	17-30	Rod 24		
	41.7	30-30	1485	33.0	343-15
	30.7	25-30	"	30.8	342-45
	22.4	32-30		26.9	337-45
	15.5	67-30		22.0	338-40
	10.8	76-45		17.4	336-75
	14.8	101-45		11.5	340-30
	<del>16.8</del>	110-0		11.4	326-0
	19.7	107-0		9.0	330-45
	23.9	103-0		6.5	343-0
				8.3	272-0

Rod 7.4

1480	8.3	135-45			
"	7.8	107-15			
"	6.3	92-30			
"	6.6	82-0			
"	3.3	46-45			
"	3.8	25-15			
"	7.3	45-30			
"	14.4	6-10			
"	17.0	346-0			
"	23.4	354-30			
"	28.6	7-45			

4/16/20  
Bob  
Fisher  
Mixer

- Final Topog -

At C-4+75 Sight C36 for  
Zero Az Right

4.8 1504.70 1499.90

Tom Rock  
Auxil Pt A 29.0 240-21 0.29 1504.41

At Auxil Pt Sight C4+75 for 200

HI 1507.4

Auxil Pt. 3.14 1507.55 1504.41

Rod 126			Rd 126		
1495	<sup>26.0</sup> 25.7	134-30	1495	27.1	250.15
	22.2	112-45	"	28.8	245-30
	20.1	72-0	"	30.8	246-30
	17.8	54-30	"	38.1	240-0
	14.0	32-0	"	43.2	237-15
	10.1	4-45	"		
	11.8	347-0	Rod 126	gap	
	12.2	327-0	1495	37.2	76-0
	13.1	318-0	"	32.5	<del>66</del> 65-20
	15.3	290-0	"	<sup>25.8</sup> 25.8	40-0
	19.3	272-30	"	<sup>23.1</sup> 23.1	29-30
	25.4	262-40	"	<sup>24.2</sup> 24.2	26-30
	25.4	253-30	"	<sup>22.3</sup> 22.3	15-0
			"	19.1	357-30

Rod 12.6

1495	<sup>32.1</sup> 32.1	354-0	32.8	59-30
	<sup>35.3</sup> 35.3	352-0	33.0	62-0
vent 8.0 up	41.6	352-10	37.0	65-45
vent 8.0 up	43.2	352-10	36.4	68-20
vent 7.0 up	45.1	351-20	38.4	71-0
vent 5.0 up	46.5	349-0	41.7	79-30
	48.9	349-45		

Rod 26

1505 48.3 82-10

Rod 76

1500	45.7	349-30	39.3	67-15
	44.6	351-10	<del>29.8</del> 24	34-20
	40.9	352-40	31.0	26-0
	40.6	357-0	30.3	20-30
vent 6.0 up	35.3	356-15	28.8	19-0
vent 6.0 up	33.3	356-30	28.8	13-30
vent 5.0 up	32.8	1-45	27.8	6-45
	29.4	359-30	28.9	3-30
	23.8	1-45	29.7	4-0
	25.5	14-10	32.6	2-0
	25.5	22-0	32.7	355-15
	27.2	28-15	33.9	356-15
	27.2	33-0	37.7	357-15
	28.0	35-0	<del>38</del> 39.1	359-0
	27.5	48-0	45.2	358-40
			<sup>50.2</sup> 4	357-15

Plotted

11/12/70  
Bub  
Fisher  
191X/ev

"A"  
At Auxil Pt. from C-475-Sight.

C475

Rod 76

1550	19.9	153-50 ✓
"	22.5	137-30 ✓
"	21.3	127-0 ✓
"	17.6	107-45 ✓
"	15.1	86-0
"	15.1	63-15
"	14.0	65-20 ✓
"	9.9	59-15 ✓
"	10.8	44-20 ✓
	7.8	<del>39-45</del> ✓
	9.4	16-45 ✓
	6.9	350-30 ✓
	8.6	331-30 ✓
	10.1	331-30 ✓
	11.1	321-30 ✓
	10.8	300-30 ✓
	11.6	288-45 ✓
	16.2	275-30 ✓
	23.1	253-0 ✓
	31.5	238-0 ✓
	39.0	235-30
	41.8	235-30
	42.7	232-15

11

Auxil Pt

4.85 1509.26

1504.41

Rod 9.3

1500

2

21.1

224.30

21.8

162-45

24.2

171-45

25.7

178-40

21.07.2

14.5

181-45

28.7

177-0

20.07.3

27.7

215-30

30.4

157-45 ✓

34.3

162-30 ✓

35.7

159-15 ✓

Rod 4.3

1505

38.3

125-45 ✓

34.4

174-0 ✓

33.0

173-15 ✓

31.9

182-0 ✓

29.8

187-30 ✓

26.9

186-30 ✓

27.2

191-40 ✓

24.3

191-45 ✓

16.7

154-30 ✓

12.0

154-30 ✓

13.1

138-0 ✓

9.8

126-45 ✓

11.0

218-10



11/16/20

But  
Fisher  
marksAt 46 - 414.04 Sight Center for Zero Az. R1  
4.75 1508.45 1503.70Rod  
13.5

14.95	17.4	108-0	✓
"	14.1	97-45	✓
"	15.4	91-0	✓
"	14.4	82-45	✓
"	12.4	82-15	✓
"	10.0	84-30	✓
"	8.3	61-45	
"	6.6	67-45	

Rod 8.5

15.00	6.0	15-10	✓
"	2.7	45-45	✓
"	3.7	86-30	✓
"	4.7	106-0	✓
"	7.0	98-0	✓
"	8.1	113-15	✓
"	10.0	119-30	
"	10.8	123-10	
"	14.6	131-0	

11/16/20

12

At 50 - 419.79 - Sight Center for Zero Az. R1

Rod 14.3

11.50	29.28	1512.75	
1510-15	28.6	56-15	✓
10-15	18.4	56-15	✓
10	15.5	49-15	✓
10	13.0	42-0	✓
10	11.1	19.0	✓
Rod 9.3			C460
15	14.3	57-45	✓
15	13.6	49.0	✓
15	6.2	19.0	✓

Rod 4.3

15.20	9.1	186-30	✓
"	3.2	90-0	
10.7	103-0		
13.7	98-0		
9.4			
12.1	69.0		
2.9	44-30		
10.7	282-0		

{ gallery  
4+26.84 }

20.7

⊙

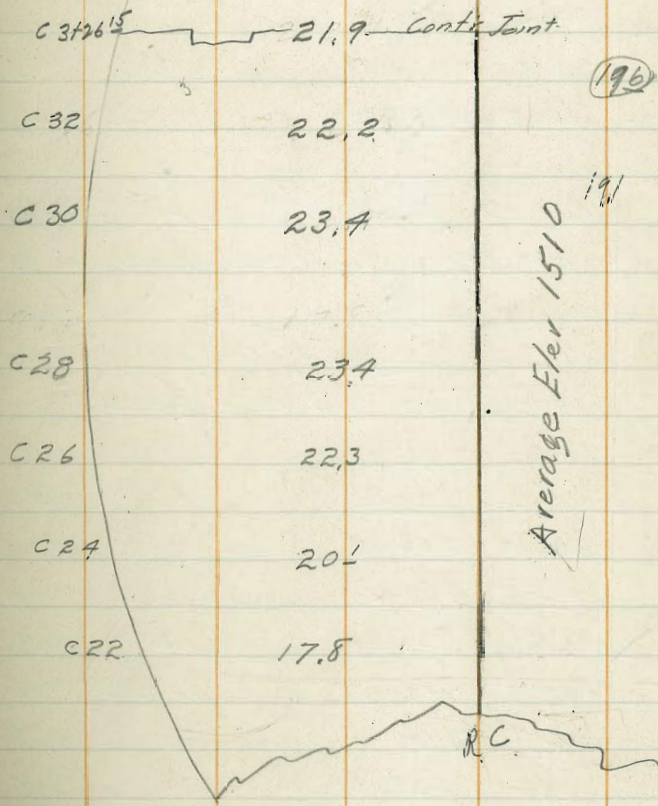
9  
10

11/16/20

Location of Lift # 3  
Curtain Wall

170

13



11/16/20  
Bub  
Fisher  
Mixer  
Top of form

Fillet -

4.57 1522.88 151831  
ATC 23 sight 28 for  
Face of Dam  
Butt Form 14.4 195-40 14.7 08.2  
Top  
US Face 13.9 198-0 4.4 18.5  
R.C.  
Both 18.8 209-45 9.0 03.9  
R.C.  
Top- 20.6 211-30 4.2 18.7

Platted  
11/18/20

Final Contours

ATC 23 sight C28 for Zero Az Rt

Rod 12.9  
15.10 15.5 201-40 ✓ 15.0 27.8 222-0  
" 15.2 205-0 ✓ V-15 30.2 225-30  
" 14.3 206-45 ✓ V-15 31.5 227-45  
" 16.9 223-0 31.4 235-15  
16.2 232-10 ✓ V-16 36.3 242-0  
15.3 234-45 34.6 242-10  
" 11.7 263-30 ✓ 32.0 248-15  
15.0 256-15 ✓ 35-0 254-45  
22.2 256-0 ✓ Tunnel Portal 33.9 259-0  
20.5 248-0 ✓ " 31.2 265-30  
20.7 239-0 ✓ 30.6 272-10  
19.0 224-0 ✓ 30.3 287-30  
up  
V-7 20.3 213-0 ✓  
V-13 26.0 220-0 ✓

Outlet tower  
excavator

14

ATC 23 - Sight C28 for Zero Az. Rt.

Rod 7.9 34.7 285-20 ✓ 15.0 37.9 264-30 ✓  
15.15 32.0 279-45 ✓ " 37.3 262-30 ✓  
" 33.0 266-30 ✓ " 37.9 260-30 ✓  
" 32.9 264-0 ✓ " 37.5 250-15 ✓  
" 36.9 254-0 ✓ Note same as  
V-5 37.5 250-15 ✓ 15.15 - in cut photo -  
V-9 37.0 244-45 ✓  
V-11 35.1 237-30 ✓ Platted  
V-11 33.9 232-0 ✓ 11/18/20  
V-11 31.1 227-0 ✓ Hub.  
for  
tower RP. 48.4 264-0.5  
V-12 27.7 221-30 ✓  
18.7 208-0 ✓  
Rod 2.9  
15.20 28.0 171-0 ✓  
" 24.3 179-30 ✓  
" 22.9 191-0 ✓  
" 21.4 194-0 ✓  
" 21.2 201-30 ✓  
" 22.3 215-30 ✓  
gap  
38.5 284-0 ✓  
33.5 278-0 ✓  
36.9 266-0 ✓

11/20/80  
Fisher  
Master

Location of Forms -

At Galleys Pt - 4+26.84 Sight

C 46 for zero Az Pt

5.69 76.30 1470.61

Galleys -  
3+83.91

60.5 159-40 2.04 74.3

69.3 133-45 2.2 74.1

Bottom of Forms  
Tipt County

15.7 80.6

45.1 110-15 2.6 62.5

R.C. 45' 110-15 6.8 59.5

R.C. 46.3 106-45 2.6

R.C. 49.2 117-0 14.6 61.7

Location of Pipe thru Dam

56.0 160-30

58.5 154-45

60.0 150-0

63.5 140-0

67.8 133-0

Grout Holes -

#8 36.5 19-45

#9 57.8 18-15

12/5/20  
Bob  
Fisher  
Joe

Final Topog

At 24-185 Sight c 24 for 180 =

Az RT.

0.10 1462.85 1461.95

Rod 7.0

1455	<sup>56.5</sup> 56.0	181-15 ✓	<sup>50.3</sup> 49.8	172-45 ✓
	<sup>57.1</sup> 56.6	172-0 ✓	55.8	174-10 ✓
	<sup>55.0</sup> 54.5	168-20 ✓	58.2	180-30 ✓
	<sup>46.0</sup> 45.5	168-15 ✓	64.5	190-45 ✓

edge

<sup>37.5</sup> 37.0	156-0 ✓
<sup>22.7</sup> 22.2	184-45 ✓

<sup>25.1</sup>24.6 193-0 ✓ Chained 4278 =

<sup>25.6</sup>25.1 222-20 ✓ 24-227.78

<sup>35.3</sup>34.8 229-45 ✓ T.P. 12.11 49.94

edge Sand

<sup>51.5</sup>51.0 230-0 ✓

~~55.0 229-30 ✓~~

<sup>57.4</sup>56.9 228-30 ✓

<sup>56.4</sup>55.9 219-0 ✓

Rod 120

<sup>11.0</sup>57.0 222-45 ✓

#1

57.0 216-30 ✓

1450

<sup>38.2</sup>37.7 220-30 ✓

<sup>31.4</sup>30.9 197-0 ✓

<sup>35.6</sup>35.1 179-0 ✓

<sup>35.5</sup>35.0 171-30 ✓

edge s.

<sup>43.6</sup>43.1 166-0 ✓

At 24-227.78 Sig At 24-185 ft

Zeri Az RT

0.51 50.45 49.94

Rod 5.5

1445 26.2 210-0 ✓ Auxil 41.7 229-55 ✓

17.3 204-45 ✓

12.6 185-0 ✓

edge s.

14.4 172-30 ✓

5.4 176-30 ✓

9.7 251-0 ✓

22.9 272-45 ✓

1450

1445 33.6 265-0 ✓

Rod 105

1440 <sup>31.9</sup>31.4 257-30 ✓

29.6 261-15 ✓

edge Sand

25.5 265-45 ✓

15.1 264-30 ✓

14.6 244-0 ✓

16.8 224-30 ✓

16.1 215-0 ✓

15.3 207-0 ✓

red up 10

24.4 208-30 ✓

T.P.

T.P. 12.75 37.70

5.10 1

At Auxil Pt #1 from 24-227.75-  
Sight 24-227.75 fr Zero Az Rt.

	0.09	37.79		32.70	
Top of Rock T.P.			7.20		
Rod 28			Rod 28		
14 35	22.5	149.50	14 35	24.6	7-30
S.S. Hamilton	19.6	150-0		23.0	12-30
"	19.0	146-30		21.3	15-0
"	15.2	138-0		20.1	7-45
"	12.1	149-15		13-0	355-0
"	13.0	131-15		12.4	27-0
"	9.6	132-0		19.3	28-10
"	6.9	102-30		20.5	31-30
"	7.1	133-45	vert up 14'	19.1	40-0
"	6.6	276-30	undirect vert 13	20.5	47-10
"	11.3	288-30	undirect vert 13	18.2	62-30
"	11.9	295-45		17.0	70-45
"	16.4	307-0		19.9	91-0
"	19.5	314-15		21.7	100-0
"	20.4	310-30	vert up 70'	23.9	104-30
"	24.8	333-0		24.4	111-45
"	20.2	338-0		25.6	120-05
"	16.9	352-15		25.1	126-15
"	20.1	1-30		26.3	135-0
"	22.4	1-30		31.3	139-0

Rod 28  
1435 33.7 140-0  
" 34.6 142-30

Rod 7.8	1430	20.1	144-15	11.9	312-30
		23.4	135-0	<del>9.5</del> 17.0	292-0
		23.7	126-30	10.9	279-15
		23.1	121-45	9.4	275-45
		21.2	118-0	7.1	311-0
		18.8	116-0	5.3	319-30
		18.0	98-0	5.6	23-45
		15.9	84-45	5.5	52-0
Vert 50	16.9	71-0		3.3	65-30
uc	18.7	60-30		4.5	82-30
uc	19.8	49-30		6.7	88-0
uc	20.4	43-30		9.0	126-0
	18.9	47-0		12.4	124-30
	14.7	49-30		14.8	131-0
	9.6	27-10		16.5	128-30
	10.1	352-30		18.4	131-30
	17.2	2-30			
	15.8	349-0			
	19.6	334-0			
	18.1	331-30			
	17.4	317-0			

At Auxil Pt #1 from 24-227.75  
Sight 24-227 for zero Az Pt

37.75

At Auxil Pt #2 from 24-227.75  
Sight Auxil Pt #1 for zero Az Pt

T.P. 12.88 50.59

1437.71

		68	
27.5	141.20 ✓	68	31.0 ✓
23.9	139.20 ✓	78	30.0 ✓
21.3	133.0 ✓	9.6	28.2 ✓
at Harris Dam	at 6.9 123.15 ✓	10.0	27.8 ✓
	12.0 109.30 ✓	10.7	27.1 ✓
	14.6 79.30 ✓	10.1	27.7 ✓
	16.3 61.0 ✓	10.6	27.2 ✓
	10.8 59.45 ✓	10.3	27.5 ✓
	8.2 24.20 ✓	10.3	27.5 ✓
	9.8 345.15 ✓	10.5	27.3 ✓
Bottom Sump	12.5 333.0 ✓	11.4	26.4 ✓
Bottom of Hole			27.0
North of Harris Dam			

		Red 10.6					
		concrete					
		14.40					
				40.8	274-30 ✓	Red 5.6	21.9 258-30 ✓
				32.0	274.0 ✓	14.45	26.0 263-30 ✓
				28.7	272-00 ✓	Concrete	28.5 259-30 ✓
				26.1	277-10 ✓		
				18.6	270-45 ✓	Red 0.6	
				14.8	277-15 ✓	concrete	22.7 243-30 ✓
				14.90	286.20 ✓	14.50	13.6 243-30 ✓
				35-40	6.8 304-10 ✓		7.8 236-45 ✓
				40	6.5 23-15 ✓		8.3 100-45 ✓
				35-40	9.5 23-15 ✓		7.5 85-40 ✓
				40	9.6 39-30 ✓		14.6 33-00 ✓
				cut to boll.	14.6 30-30 ✓		

T.P. (T.P.) 0.07 37.71 ✓  
 corrected Dist = 26.80 V.A.  
 Auxil Pt 2 28.15 90-16 17-50

						Red 10.5	27.5 294-30 ✓
						40-45	
				Red 5.6	14.6 30-30 ✓	14.45 40	22.0 317-0 ✓
				14.45	6.7 61-30 ✓	40-45	24.2 327-30 ✓
				"	3.9 5-0 ✓	40-45	23.7 336-0 ✓
				"	4.1 280-0 ✓	40-45	27.2 339-30 ✓
					6.7 276-30 ✓	50	30.4 341-0 ✓
					12.1 261-0 ✓	40-45	26.2 348-10 ✓
					14.9 256-45 ✓	40-45	34.2 345-0 ✓
					17.2 261-0 ✓	40	34.4 347-0 ✓

Cosine 17° 50' = 95195  
 28.15  
 475975  
 95195  
 761560  
 190390  
 Correct Dist = 26.7973925

185 Cords  
 Under Cut

HI 506

At Auxil/PT#2 from 24-227 75 - Sight

45	35.9	350-0 ✓
40	29.6	356-0 ✓
45	33.6	356-0 ✓

Rod 0.6

1450	37.8	350-30 ✓
"	41.0	347-30 ✓
"	39.0	344-30 ✓
1455	42.0	344-30 ✓
52-53	35.0	341-0 ✓
50	32.6	338-30 ✓
55	33.7	331-30 ✓
50	27.4	331-30 ✓
55	30.3	327-30 ✓
55	29.9	318-0 ✓
50	26.8	325-0 ✓
50	30.8	321-0 ✓
50	27.2	305-30 ✓

12/5/70

Cub  
Fisher  
702

Final Topog -

20

At 24-250 Sight 24-185 for 00A2 PT

Iron Pin				
Westside Canyon	4.24	1466.19		1461.95
Nail in Rock				
10' W of 24-250	10.25	77.98	1.46	1464.73
Check on TP - Top of Rock Concrete			2.20	72.78 ✓
Rod 11.2				

1455	9.9	40-30 ✓
"	6.9	1-45 ✓
"	7.5	329-0 ✓
"	12.0	269-0 ✓
"	13.6	248-15 ✓
"	18.8	235-0 ✓
"	22.0	194-0 ✓
"	24.6	188-0 ✓
"	29.0	195-30 ✓
"	39.7	200-0 ✓
Count	48.3	201-0 ✓
Rod 62		

1460	48.4	195-0 ✓
	30.7	189-45 ✓
	24.2	186-0 ✓
	21.4	194-0 ✓
	18.3	217-0 ✓
	9.7	225-45 ✓
	5.7	286-0 ✓



12/9/20

BUB  
Fisher  
Mixer

Final Topog

21

At 24-227<sup>28</sup> Sight 24-185 for Zero

Az Rt.

Top of stake  
near Rock-  
Rod 10.7

0.74

0.74 50.68

49.94

23

40.0

37.70

11.5

28.5

1440 16.5 214-30 ✓

12.1 256-45 ✓

cut 15' 14.0 163-0 ✓

17.0 206-0 ✓

15.7

1435 16.8 231-0 ✓

5 12.8 215-30 ✓

" 13.9 204-45 ✓

" 15.8 204.45 ✓

" 20.5 215-0 ✓

" 22.2 215-0 ✓

" 21.8 220-0 ✓

" 25-0 224-45 ✓

" 26.1 225-15 ✓

gap

35 22.9 226-45 ✓

Plotted 12/10/20

12/13/20  
BUB  
Fwd  
Mixer.

Final Contours-

78

18-488 1.02 1562.10 1561.08

18-438.09 8.01 1454.09

T.P. on outlay  
Dunks 10.09 52.01

At 18-411 '9 Sight Center Zero Az Rt.

T.P. 0 50 52.51 52.01

1540  
Rod 12.5

1540 31.4 246-45 ✓ 6.8 301-30 ✓

" 26.7 254-45 ✓ 6.0 277-30 ✓

17.0 273-10 ✓ 7.9 268-30 ✓

11.6 296-30 ✓ 11.9 256-45 ✓

8.5 304-15 ✓ 29.0 229-30 ✓

vent-10'  
down 8.1 315-30 ✓

40-35-30 12.2 10-20' Auxil 26.68 244-30 ✓

" " " 16.3 34-0' T.P. Auxil Pt 11.42 41.07 ✓

40 35 19.2 38-0' Rod 17.0 282-45 ✓

40 243. 43-30 ✓

Rod 75

1545 234 54-0 ✓

17.1 56-20 ✓

12.6 47-30 ✓

8.5 18-30 ✓

6.4 353-30 ✓

At Auxil Pt from 18-411 '9 Sight 18-411 '9  
for Zero Az Rt

45 46°  
T.P.

495 46.04

41.09

1535

" 24.8 340-0 ✓

1420-35 22.1 333-0 ✓

20.4 316-0 ✓

17.6 315-0 ✓

15.8 313-0 ✓

15.0 306-30 ✓

Rod 16.0 16.0 ~~298-0~~

7530 15 285-45 ✓

" 16-0 298-0 ✓

vent 13°  
down W.3 299-0 ✓

vent 15  
down 20.1 308-0 ✓

vent 8  
down 20.3 315-0 ✓

12/13/20

Red  
Pistol  
Mixer

## Final Topog

At 24-383 ST Sight Center Zero Az Pt

top of form  
at west end.

		21.17		1518.23		
	2.94	90.92		1483.95		
		30.35				
0.9	1520					
	<del>1490</del>	370				
		<del>38.5</del>	117-0		54.4	47-30
vut 5' up		44.5				
		45.9	113-30	Red 5.9		
7520		45.4			54.5	35-0
		50.0	110-15	<del>1485</del>		
		48	107-30	1515	54.3	45-45
			54.3		51.3	48-0
			57.1		51.3	52-0
1525						
1495			56.1		44.7	56-40
1520						
90			56.5		46.3	61-0
			56.5		51.2	84-45
			58.4		54.3	65-0
			67.0		54.2	66-45
			71-0		58.2	69-0
			72.5		63.1	69-0
			75.0		68.1	69-0
			78.5		69.5	70-15
			78.3		75.5	69-30
			70.2		77.3	70-15
			63.5		73.6	72-30
			68.5			
					70.9	75-30
			58.8			
					69.0	75-30
			57.7			
			51.6			

Rod 5.9

1495

1515

"

"

"

"

"

"

"

"

"

"

"

"

"

"

Rod 10.9

1490

1510

"

"

"

"

"

"

"

(9092)

21.17

74-30

77-45

80.15

84-45

89-0

91-30

96-0

101-0

105-0

108-0

112-0

115-0

114-0

111-30

112-45

Lincol  
Forms

109-45

109-15

108-0

112-0

113-30

109-0

107-0

108-0

#1  
Auxil Pt  
TP  
TP  
AV PT  
Nail in Rock

1510

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

48.8

50.2

53.8

54.2

54.8

55.5

59.2

59.2

60.5

61.5

61.5

58.0

52.5

47.1

44.5

42.6

40.3

40.3

43.2

44.3

45.5

41.03

47.52

11.68

11.68

103-0

98-30

96-0

94-0

88-30

85-30

79-15

78-15

73-30

70-30

70-0

67-0

66-45

60-0

59-0

55-0

52-0

52-0

51-0

44-45

40-0

62-0

78:40

99:24

109:49

73

12/15/20

Bub  
Fisher  
Mixer

H. 515

Final Tobog

A + Auxil #1 from 24-383-58

Sight 24-383 58 for 2nd Az Pt.

14.64

09.49

Azil Pt

5.15 (84.39)

7924

Rod 94

1475

29.8 309-30 1505 7.5 81-30 ✓

1505 30.2 302-30 " 9.3 96-0 ✓

" 28.3 299-30 " 17.2 84-0 ✓

" 288 293-30 ✓

" 31.2 281-10 Rod 144

" 31.1 276-0 ✓ 1470 18.9 87-30 ✓

" 25.6 259-30 1500 16.0 81-45 ✓

" 23.8 254-0 ✓ " 13-4 81-30 ✓

" 20.9 238-45 ✓ " 13.1 55-15 ✓

" 21.0 223-0 ✓ " 10.7 58-30 ✓

" 17.9 231-30 ✓ " 9.7 35-30 ✓

" 15.2 255-0 ✓ " 15.2 28-0 ✓

" 9.8 271-0 ✓ " 16.8 6-0 ✓

" 12.2 311-30 Form 19.1 354-0 ✓

" 12.4 320-0 ✓ " 18.5 351-0 ✓

Form 8.4 3-15 ✓ " 16.8 350-45 ✓

" 7.0 10-30 ✓ " 19.3 339-45 ✓

" 7-0 22-0 ✓ " 19.2 331-30 ✓

" 7.3 42-30 ✓ " 19.7 325-15 ✓

" 8.2 55-30 ✓ " 17.2 311-45 ✓

" 8.6 72-0 ✓ " 16.9 301-30 ✓

24.  
15 14.64

(84.39)

1470 20.2 279-0 ✓

1500 23.7 259-0 ✓

" 24.6 263-0 ✓

" 30.8 275-30 ✓

" 31.4 279-30 ✓

" 29.4 291-0 ✓

" 28.5 301-0 ✓

" 29.9 309-30 ✓

144

RC 15.00 23.8 330-45 ✓

RC 22.4 337-0 ✓

RC 21.7 345-30 ✓

RC 23.8 351-10 ✓

379-70

My  
Azil Pt. 19.7 339-30

T.P. on Rock 12.95 (71.44)

1501.69

12/14/20

Bob  
Fisher  
Mixler

## Final Topog.

At Auxil #2 Sight #1 for Zero Az

1503.41 1501.69

T.P.

1.72 (472.16) 71.44

6.3 251-45 ✓ 59 97.51

1.5 210-30 ✓ 57 97.71

8.5 112-50 ✓ 52 98.21

15.2 103-15 ✓ 6.7 96.71

18.2 88-30 ✓ 5.9 97.51

24.6 78-45 ✓ 6.4 97.01

25.9 71-15 ✓ 6.3 97.11

27.4 63-30 ✓ 4.7 98.71

12/14/20

H=4.5

At Auxil Pt #1 from 24-383 SE

Sight 24-383 SE for Zero Az Rt.

#3  
Auxil Pt  
Auxil #1  
Nail in Rock  
on Rock

27.14 153.37 ✓ 1513.99 1509.49

4.5 (83.74) (79.24)

25.85 13.67

12.18 (96.60) 0.32 (83.42)

27.39 29.89 23.81

6.08 (1500.64) 2.04 (94.56)

29.16

9.73 (99.91)

Auxil #3

Platted  
12/17/20

25

H=4.28

At Auxil #3 Sight #1 for Zero Az Rt

1533.44 1529.16

4.28 (1533.44) (1530.16)

44.95 32.63

12.32 (45.95) 0.81 (1533.63)

41.70 37.64

4.06 (42.70) 7.31 (38.64)

2.18 (40.52)

EI of 16-309 = 39.58 - Error 06 to low

RP. 16-309

2.18 41.76 39.58

7.31 45.01 4.06 37.70

0.81 33.50 12.32 32.69

Auxil #3 Nail in Ledge

4.28 29.22

H=4.28

At Auxil Pt #3 Sight #1 for Zero Az Rt

4.28 1533.44 1529.16

15-55'

24-383 SE

Red 84

14.25 9.5 73-30 ✓ " 26.3 268-30 ✓

" 10.6 28-01 (3) ✓ 25.5 277-30 ✓

" 9.6 5-30 ✓ " 35.5 289-15 ✓

" 8.9 281-30 ✓ " 37.3 300-15 ✓

" 9.7 255-45 ✓ " 43.2 304-25 ✓

" 13.9 243-30 ✓ " 45.9 307-30 ✓

" 19.0 245-20 ✓ " 45.3 310-30 ✓

" 21.3 255-30 ✓ " 48.4 318-45 ✓

HI 428 At Auxil #3 from 24-383 <sup>58</sup>  
 Sight Auxil #1 for Zero

33.44

Rod 3,4	46.6	307-40 ✓
18 30	46.0	302-30 ✓
"	43.8	297-15 ✓
"	40.1	297-15 ✓
"	38.7	289-15 ✓
①	27.7	274-0 ✓
"	28.9	271-0 ✓
"	19.6	236-45 ✓
"	12.8	227-20 ✓
"	7.4	221-0 ✓
"	3.7	194-30 ✓
"	7.6	175-0 ✓

Platted 12/17/20

12/17/20

8061

## Final Topog Excav

#1 4.87

1471.9A1 34-27214 Sight Center -  
for Zero A2 Right

34-27219

4.87 1471.92

146705

Rod 6.9

1465

20.8 114-30 ✓ 1465 45.0 256-45

"

18.2 114-30 ✓ 47.3 257-01

USF 04 Dam

16.3 112-0 ✓ 

1465

10.6 114-0 ✓ Rod 11.9

"

11.4 135-0 ✓ 1460 49.0 226-30 ✓

"

11.9 155-30 ✓ " 45-0 226-30 ✓

"

14.9 173-15 ✓ " 43.2 228-0 ✓

"

17.9 195-15 ✓ " 37.1 231-0 ✓

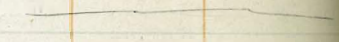
"

17.1 202-0 ✓ " 37.3 236-30 ✓


"

16.8 213-30 ✓ " 43.3 238-30 ✓

"

16.5 240-0 ✓ 

"

17.6 253-45 ✓ 

"

21.7 258-15 ✓ <sup>63.6</sup> 8.3 47.8 232-0 ✓

"

24.2 266-15 ✓ <sup>63.1</sup> 8.8 44.8 235-0 ✓

"

26.7 266-10 ✓ <sup>63.2</sup> 8.7 54.8 234-0 ✓

"

30.8 265-30 ✓ gap

"

32.7 262-30 ✓ 1460 50.7 244-30 ✓

"

36.6 261-30 ✓ 47.6 241-30 ✓

"

37.9 258-0 ✓ 45.5 244-30 ✓

42.8 241-0 ✓

27

1471.92

Rod 11.9

1460

35.6 239-0 ✓

35.4 247-0 ✓

34.2 250-0 ✓

34.0 251-30 ✓

31.5 252-45 ✓

31.3 258-30 ✓

29.0 264-0 ✓

25.6 265-30 ✓

21.7 258-30 ✓

19.9 255-30 ✓

17.3 237.0 ✓

17.0 218-0 ✓

17.8 204-30 ✓

18.8 196-0 ✓

19.2 188-30 ✓

24.4 177-0 ✓

24.6 170-45 ✓

Auxil #

TD

42.5 210-10 ✓

12.56 59.36

12.56

12/17/20

Bob  
Fisher  
Water

## Final Topog Excal.

HI 458

1463.94

Rod 8.9

1455

At Aerial Pt 1 from 34-274-14 Sight

34-274-14 for Zero Az Pt

458 63.94

59.36

9.5 251-15 ✓ 23.3 15.30 ✓

10.4 266-30 ✓ 24.1 39-0 ✓

11.5 273-0 ✓ T.P. 12.9 51.0 2

12.6 295-30 ✓

13.9 302-30 ✓ Aerial #2 27.34 320-22 ✓

15.5 303-0 ✓

16.1 305-30 ✓

21.5 306-0 ✓

23.4 310-0 ✓

25.9 313-10 ✓

27.5 315-30 ✓

31.0 314-30 ✓

33.1 318-30 ✓

33.5 321-0 ✓

31.3 324-0 ✓

28.3 330-0 ✓

28.3 334-30 ✓

25.5 341-0 ✓

24.0 349-30 ✓

21.4 13-0 ✓

28

At Aerial #2 Sight #1 for

Zero Az Pt

4.41 55.43

5102

Rod 54

14.50

24.2 16-0 ✓ 30.9 317-0 ✓

22.8 15-0 ✓

20.9 16-30 ✓

20.7 13-0 ✓ 10.4 29.8 318 ✓

15.9 9.0 ✓ 14.45 26-0 317-0 ✓

13.5 14-15 ✓ 23.2 324-30 ✓

12.1 10-0 ✓ 22.6 337-0 ✓

4.9 47-15 ✓ Fillett 23.6 343-30 ✓

3.9 148-30 ✓

4.0 191-0 ✓ 52.7

4.9 282-0 ✓ 2.7 9.2 332-0 ✓

6.6 21-0 ✓ 52.4 30 9.0 359-0 ✓

10.2 6-0 ✓

13.8 3-45 ✓

14.2 331-30 ✓

12.6 324-30 ✓

13.7 350-15 ✓

23.7 313-15 ✓

25.2 309-30 ✓

27.2 311-30 ✓

27.6 315-0 ✓



12/18/60

Bub  
Fisher  
Minter

383.58  
12.00  
371.58  
5.00  
366.58

92.30

TP

42-4012

4.99 92.01

1487.02

4.65 87.36

Rod 93

1495

13.03 1504.30 1.0:3 91.27  
At 34-371-58 Sight center for  
Zero Az Right

HI 4.94

At 34-366.58 Sight Center  
for Zero Az Right

149V.33

4.94 92.30

8736

Rod 93

1495

9.6 91-0

Rod

12.3

11 8.9 76-15

1480

5.3 342-0

7.2 35-45

11 15.5 62-30

"

7.5 342-0

Conecta

6.1 38-15

11 19.3 68-30

"

8.7 356-0

21.1 57-30

"

10.8 2-15

Rod 23

21.0 55-30

"

18.2 12-0

1490

8.3 126-0

22.9 52-15

"

23.6 19-0

6.6 104-0

26.9 54-0

"

28.1 17-0

5.1 93-30

28.7 48-30

6.6 60-30

31.4 41-30

Rod 73

1485

29.6 24-30

13.0 58-0

19.1 59-30

27.0 37-0

21.4 50-0

21.7 33-0

26.3 48-30

18.0 28-30

29.0 40-30

16.0 20-0

14.8 21-0

12.3 8-0

Plated 12/19/60

29

12/20/20

30

Bob  
Fisher  
MixerFinal Concrete Topog -  
Down stream Section of Dam

At 24-250 Sight Center for Zero

Direction face  
RC.

39.1	278-20 ✓	68	59.4 ✓
38.6	282-30 ✓	67	59.5 ✓

Az Right

Nail in Rock  
West 24-250

1.48 1466.21 1464.73

Mountain  
edge Form

A Contact 7.2 352-36 6.7 59.5

B C 6.2 294-0 6.6 59.6

10.7 225-40 ✓ 6.5 59.7

14.8 219-53 ✓ 6.5 59.7 +31

18.9 217-51 ✓ 6.6 59.6 1475

21.5 186-37 ✓ 6.2 60.0 "

23.8 185-45 5.9 60.3 "

RC  
Tip #2 23.9 180-15 ✓ 1.46 64.75 "

Top #2 RC 48.9 246-0 ✓ 1.5 64.7 T.P.

46.8 245-15 ✓ 6.3 59.9

48.9 247-30 ✓ 6.3 59.9

49.7 248-45 ✓ 6.3 59.9

50.3 250-20 6.3 59.9

gap

50.1 253-50 ✓ 6.3 59.9

49.4 259-0 ✓ 6.6 59.6

48.1 265-15 ✓ 6.6 59.6

50.3 268-0 ✓ 6.6 59.6

48.4 269-20 ✓ 6.6 59.6

49.0 273-10 6.7 59.5

At 34-274<sup>14</sup> Sight Center for Zero

Az Right

7.14 71.87 1464.73

14.1 273-30 ✓

" 12.0 293-40 ✓

" 8.8 295-15 ✓

" 8.1 301-45 ✓

176 70.11

Auxil #1 13.65 137.21

At Auxil #1 from 34-274<sup>14</sup> Sight Center for Zero Az R.

7.9 78.01 70.11

2nd 3.8 11.4 40-0 ✓ 17.4 143-45 ✓

1475 13.4 58-0 ✓ 16.5 156-0 ✓

" 13.7 77-0 ✓

10.9 90-30 ✓

10.3 102-30 ✓

11.1 114-30 ✓

14.0 121-0 ✓

18.4 122-15 ✓

12/27/20

Fisher  
Mixer

Outlet Tower Final Contours

At 0 +15 24 Sight of for Zero Az Pt

2.55 1509.01 1506.46  
Average Elev Contour 7.8 0.2

7.2 358-0 / Red 4.0

1501 42	10.4	320-0	✓	1505	4.1	74-01
"	16.3	325-30	✓	"	9.5	60-01
"	21.6	326-0	✓	"	12.9	55-01
"	26.9	346-30	✓	"	14.4	47-01
"	27.0	12-15	✓	"	18.3	43-30 ✓
"	23.5	28-15	✓	"	21.3	29-15 ✓
"	21.4	28-15	✓	"	25.9	28-30 ✓
"	<del>17.7</del> 40-30	42-30	✓	"	27.6	26-01 ✓
"	14.8	42-15	✓	"	30.5	21-01 ✓
"	11.8	58-0	✓	"	gap	
"	6.7	53-0	✓	"	21.5	320 ✓
<hr/>				"	15.8	311-30 ✓
"				"	6.3	307-30 ✓

RC. 17.7 12-0 ✓

1501.2 21.3 9-0 ✓

RC 20.0 28-0 ✓

RC 16.5 28-0 ✓

RC 16.4 18-0 ✓

028 62 18.5 13-30 ✓

029 62 18.1 20-30 ✓

Patented  
12/25/21

12/29/30

Bud  
Fisher  
Mixer

## Final Contours

HI 5L

At 38-250 - Sight Center for Zero

1496.6

AZ Right.

38-250

5.1

1496.57

1491.47

Rod 6.6

1490

19.6

225-0 ✓

25.7

223-30 ✓

30-0

222-15 ✓

32.8

221-15 ✓

40.9

<sup>220</sup>  
~~220~~-30 ✓

41.9

223-30 ✓

47.1

222-15 ✓

53.0

223-0 ✓

57.5

222-30

58.5

226-0

Rod 16

1495

56.0

228-0 ✓

50.6

227-30 ✓

48-0

227-30 ✓

47.4

228-45 ✓

38.3

228-0 ✓

34.6

228-15 ✓

31.4

229-0 ✓

31.1

226-15 ✓

30-0

225-0 ✓

25.2

232-0 ✓

Platted  
12/30/20

32

At 42-250 Sight Center for Zero Az #

4.7

1511.85

1507.15

Rod 11.9

1500

18.4

170-30 ✓

17.1

174-0 ✓

21.6

179-45 ✓

23.7

189-0 ✓

27.4

190-45 ✓

32.1

197-0 ✓

35.5

198-0 ✓

37.5

200.45 ✓

44.7

204-0 ✓

See Page #10

Tom Rock

At Avul from C 9+75 Sight C-475

HI 3.55

for Zero Az Right

1508.0

34.55

1507.96

1504.41

Rod 12.96

1495

46.0

~~45.5~~

237-30 ✓

71.4

237-30 ✓

49.3

237-0 ✓

78.5

239-0 ✓

49.4

235-30 ✓

80.5

240-30 ✓

55.2

236-0 ✓

82.6

241-0 ✓

59.3

234-45 ✓

87.9

242-15 ✓

65.9

236-30 ✓

91.5

242-30 ✓

70.6

238-0 ✓

Platted 12/30/20

"A"  
At Auxil Pt from C-475 - Sight C-475  
for Zero Az. Rt

1507.96

Rod 80

1500	85.0	237-30 ✓	86.7	235-30 ✓
73.2	232-0	Natural ground ✓	97.8	240-0 ✓
70.8	232-30 ✓			
<del>69.9</del>	233-0 ✓			
64.0	233-15	Auxil Pt. Hub "B" ✓	64.42	215-24
61.1	232-45 ✓	on Rack		
57.5	234-0 ✓	TP	0.36	07.60
55.3	233-10 ✓	+ 10.85	18.45	
46.9	235-0 ✓		- 232	1516.13 ✓
44.3	232-30 ✓			
40.9	233-30 ✓			
41.1	235-30 ✓			

Rod 30

1505	39.6	225-30 ✓
	46.4	227-0 ✓
	46.4	230-30 ✓
	50.6	230-45 ✓
	56.5	228-10 ✓
	61.9	228-30 ✓
	68.0	230-0 ✓
	79.5	23-30 ✓

Plotted 12/30/20

12/30/20  
Fisher  
Mixer

At Auxil Pt "B" Sight Auxil "A" for Zero Az

Auxil "B"

4.77 20.90

1516.13

Rod

10.9	19.0	2-30 ✓	10.0	204.0 ✓
1510	17.2	358-30 ✓	22.0	213-30 ✓
	17.4	353-30 ✓		
	11.4	329-15 ✓		
	11.6	302-30 ✓	15.25	15.5
	10.6	272-30 ✓		190-30
	15.4	256-30 ✓		
	25.2	231-15 ✓		
	38.2	234-30 ✓		

Rod 59

1515	30.5	226-0 ✓
	22.1	221-0 ✓
	10.9	227-15 ✓
	6.0	241-0 ✓
	3.9	298-30 ✓
	5.0	359-30 ✓
	13.8	7-30 ✓

Rod 0.9

1520	12.0	51-30 ✓
"	2.8	82-15 ✓
"	4.6	151-0 ✓
"	8.3	190-0 ✓

12/30/20

Fisher

Mixer.

At 18-4119 Sight Center for Zero Az

TP. Derive  
on Cribbing of  
Rod 130

0.97 52.98 52.01.

1540 16.5 33-30 ✓ Rod 30

21.6 37-30 ✓ 1550 37.4 66-30

24.9 42-15 ✓ 40.7 67-30

32.5 36-30 ✓ 48.2 56-15

35.5 38-0 ✓ 56.7 43-45

39.0 36-30 ✓ 53.3 38-45

52.5 30-30 ✓ 58.5 35-30

Rod 80

1545 54.4 31-30 ✓

55.3 33-30 ✓

52.5 34-30 ✓

51.9 38.0 ✓

54.0 40-15 ✓

45.7 42-30 ✓

27.5 59-30 ✓

22.5 52-0 ✓

20.0 40-30 ✓

17.0 51-30 ✓

13.0 46-30 ✓

10.0 353-25 ✓

Platted

12/31/30

Rod  
Fisher  
MixerTransferred from Book 16 Page 34  
Final Contours  
At (-30.36) Tunnel Line Sight Center for  
Zero Az Right

647 12.93 1506.46

Rod 79

1505 14.2 11-0'

1505 19.7 13-0'

vert 5' up 20.2 17-30'

vert 8' up 26.9 22-45'

vert 18' up 32.6 23-45'

Rod 29

1510 10.0 16-30'

15.1 18-45'

17.2 20-40'

20.2 17-30'

Platted

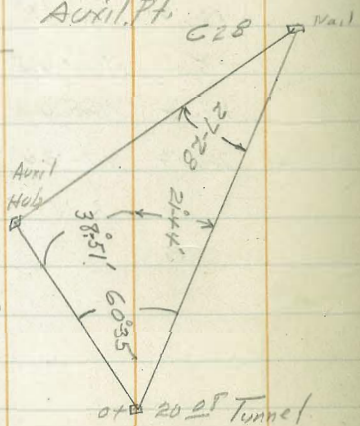
12/31/20  
Bub  
Fisher  
Mixer

At (23.77) Pt from  $\perp$  Tower  
Sight to  $+20^\circ$   $\perp$  Tunnel for Zero Asst

Top of Forms	14.35	32.58	1518.23
Rod 2.6	6.4	37-30	
15 30	11.1	27-0	1520 10.0 32.4-0
"	14.9	13-45	" 10.5 344-0
vert 5 <sup>up</sup>	19.1	15-0	" 12.6 348-20
vert 5 <sup>o</sup>	23.2	359-0	" 12.9 351-30
	25.4	359-15	
	31.2	355-30	
vert to Bot.	32.2	349-0	

Tie to  
Auxil. Pt. C28

vert to Bot		
Rod 7.6	26.0	355-0
15 25	23.7	353-15
"	18.7	353-45
	11.7	358-30
	8.1	348-30
	7.1	309-30
7 <sup>at mid Rod</sup>	8.7	302-0



huron -		
Rod 12.6		
15 20	10.1	305-30
	9.9	312-0

$\perp$  Tunnel

Transferred Book 13 Page 28  
At Auxil Pt # 3 from 24-38355 fr

# 3	4.05	1533.27	29.22
RC Form	20.5	345-0	
Conch-Form	51.5	347-30	17.4 15.9
RC Form		34830	
C.C. Form		353-0	22.4 10.9
Average Elev Concrete			15.6 17.7
end of Form	20.5	345-0	
	18.0	303	
	19.1	265-15	
	25.0	252-30	
	26.1	263-30	
	30.7	275-0	
	29.6	283-0	
	39.9	299-0	
	50.0	306-30	
	59-0	320-0	

Est. at Dec 1920

Bob  
Mister. 1/11/21

Topog. Journal

Inspection Gallery H. Abert  
91.62

Set on 4+73<sup>02</sup> - 392 R. Curve

Sight C43 for zero on Rt.

Avi/#1 42.57 158° 43

NA

839

9541

148702

Avi/#1

379

91.62

Inspection Gallery

Set on 4+73<sup>02</sup> 392 R

Sight End of Gallery for line

Set point 4431 West = 4458<sup>26</sup>

Grade  $\frac{4458^{26}}{=}$  9709

873

9525

148702

575

89.50

9709

89.50

$\frac{9709}{89.50} = 7' - 7\frac{1}{2}"$

TP Rock Bottom Narrows

192

93.33

NA = 95.25

36

Set on 4+73<sup>02</sup> 392 R

Sight C43 for 00 42 Rt.

7' 187° ✓ 3.6 91.7 ✓

10' 176° ✓ 3.5 91.8 ✓

16.5' 157° 30' 2.2 93.1 ✓

21.0 157° ✓ 3.6 91.7 ✓

Point #9  
2nd m.R.

Pla Hed 1/14/21



1/11/21  
Sub  
Mixer

Form Lines.

Set on C43 Sight C475 for  
Zero Azm. Right

R.C.	51.0	25-25	←	Bot. Lgt	89.3
	53.6	37-15	↓		89.3
	16.8	70-0	↓	Bot. Lgt	88.8
	26.1	77-10	↓		88.6
					<u>(89.00)</u>

Average height

42-420 <sup>12</sup>	1146	98 <sup>45</sup>	1487 <sup>02</sup>
Bottom Form			
		9.7	88.8
		9.2	89.3
		9.2	89.3
		9.9	88.6

Plotted 1/14/20

Book  
Meter 1/11/21

See Page 10 for auxil

M=4.25

Set on Auxil "A" from C475 1504<sup>4</sup>  
Sight C475 for zero by pt.

Book 8  
T.P. Pg 45

1256 1508.66 9610

Nail in Seam  
Auxil C

5052 114°-33'

on nail  
12.0 96.7<sup>66</sup>

1/13/21

At Auxil "C" Sight Auxil "A"  
for Zero Az Right.

Book  
Meter  
Book 8  
T.P. Pg 45

532 1501.42 96.10

Rd 8.4

1500	54.0	30-30	1500	31.2	170-15
"	34.2	50-15	"	31.8	172-15
"	31.7	52-20	"	35.3	172-15
"	32.0	55-15	"	32.9	191-0
"	27.8	59-45	gap		
"	18.1	78-45	26.5	210-30	
"	14.4	95-30	25.3	211-45	
"	10.3	94-15	20.6	196-0	
"	13.0	107-30	17-0	206-0	
"	15.0	123-0	15.7	195-10	
"	14.9	133-30	11.8	186-30	
"	17.4	136-10	4.0	239-15	
"	21.8	154-30	6.6	260-30	
"	24.8	163-45	10.1	251-45	
"	27.6	172-15			

17.52  
33  
50.52

38

15.50	14.3	248-0	29.3	296-45
20.2	262-0	28.8	288-30	
25.6	280-15	23.9	284-30	
27.4	283-0	17.9	284-0	
33.7	295-45	15.2	281-30	
37.7	303-45	8.5	308-30	
33.7	312-0	4.3	324-45	
37.1	317-15	4.7	15-30	
35.5	322-30	7.7	58-0	
45.9	325-30	10.5	34-30	
45.4	329-45	15.3	49-0	
43.0	330-30	21.5	49-0	
40.6	335-30	24.9	50-0	
37.3	340-30	27.8	54-30	
30.9	343-30	28.5	47-30	
29.1	351-30	31.1	48-0	
		32.7	45-15	
Rd 6.4		33.9	44-45	
14.95	21.9	340-0	30.7	38-30
	29.8	331-30	42.9	31-45
	32.9	322-0	53.5	25-15
	31.3	316-45		
	29.5	313-30		
	32.3	306-30		

Platted  
1/13/21

Red 11.4

1490	49.5	29-45	out 5 up 1490	380	39-01
	47.7	29-0	"	395	36-15
	42.3	24-0	"	46.9	32-01
	39.5	21-30			
	34.2	17-0	T.P.	1300	88.4
	29.7	9-15			
	25.5	<del>337-0</del>	Auxil D	31.55	254.40
	25.3	327-0	+ 90	97.4	
	25.5	319-05	Top of ship	-12.6	84.81
	26.3	305-0			
	26.9	298-0			
	24.1	288-30			
	20.5	293-30			
	16.1	298-30			
	15.5	306-30			
	12.8	315-15			
	14.3	326-10			
	14.5	345-15			
	15.5	18-20			
	16.8	31-45			
	23.43	36-30			
	25.0	39-15			
	29.1	40-30			
	33.9	40-30			

Platted 11/14/21

At Auxil "D" Sight "C" for Zero  
A2 Right

			Top of ship						
			TP.		195	1486.8		84.8	
			Red 18						
				1485	15.4	192-30	Red 18	14.5	198-0
					8.1	171-01	14.80	RC	10.3
					5.9	67-45	RC	6.9	173-01
					8.8	61-30	RC	5.3	223-301
					27.2	47-15	RC	10.8	218-301
					31.9	44-30			
					32.3	36-30	Red 6.8	12.3	46-301
					30.8	30-15	14.80	RC	20.6
					20.6	27-45	RC	16.4	39-01
					13.5	19-15			
					7.5	347-01	Red 9.3	8.0	205-151
					6.3	304-30		9.0	190-01
					7.5	270-01	77.5	10.1	202-451
					6.7	237-30			
					11.2	222-15			
					14.6	207-01			

Platted 11/14/21

1/13/21

Bob  
Fisher  
Mixer.

At Auxil. "A" from C 4-775

4.95 08.65

1503.70

HI 423

Sight C 4-775 for 2000 Az. RT

Auxil A

423 1508.64

1504.41

2.6

1506.0

Rod 36

1505 45.4 78-151

49.8 83-101

unt 80 up

59.0 87-451

60.4 93-301

61.9 100-151

unt 90

81.5 109-01

88.0 110-01

91.5 113-01

89.5 117-151

Platted 1/14/21

40

1/13/21

Bob  
Fisher  
Mixer

Concrete Wall - Outlet Tower

At 0-30x36 4 Tower Sight  
Center for Zero Az Rt.

P.C. 15.58 17.06 ✓

15.00 7.23 ✓

17.12 6.35 ✓

P.C. 18.60 19.02 ✓

15.03 350-13 ✓

21.08 352-55 ✓

28.28 340-33 ✓

15.65 341-30 ✓

40-15 339-22 ✓

28.12 25.24 ✓

Platted 1/14/21

Location of Form

At 38-358.25 Sight Center for Zero Az Rt.

48.3 271-35

Dist to Form 13.5

1/15/21

Bob  
Fisher  
Mixer

1/17/20  
Sub  
Finner  
Mitter

At 0-36 & Outlet Tower  
Sight Center for Zero AZ Pt.

Top of Flume Grade -	4.55	1513.07		1508.52
			7.7	
Top of Fillet 30.52	25.22		1.1	1512.0
Top of Fillet			4.4	08.6 46-41404
Top of Fillet			1.0	12.0 50-345.5
	6.61	13.07		1506.46
Top of - Pipe -			4.40	1508.67

Platted 1-19/21



At 50-371 29

25 64

50 - 345.65

At 50-371 29 Sight Center for  
Zero AZ Right

6.16 1509.86 1503.70

3.61 1506.25

64.56 251-57 10.33 99.53

Avail Pl  
"E"

Platted  
1/18/21

371.7

At 50-371.29 Sight Center  
for Zero Az Rt.

46-414.04      6.16 1509.86      1503.70

9.9

15.0

10.3  
~~9.8~~

11

16.0 95-15 ✓

~~9.8~~ 76-10 ✓

11.2 50-30 ✓

12.3 49-30 ✓

14.5 33-45 ✓

16.1 34-45 ✓

18.2 30-30 ✓

<sup>19.4</sup>  
~~15.7~~ 31-30 ✓

20.5 26-0 ✓

19.0 24-45 ✓

15.8 29-15 ✓

12.1 31-10 ✓

9.9 60-0 ✓

10.2 77-10 ✓

15.0 98-45 ✓

Bottom Hole

9.9 62-45 ✓

13.3 96.6

17.0 39-0 ✓

5.4 04.5

14.1 39-30 ✓

5.6 04.3

Ord 4.7

1505

At 50-371.29 Sight Center for Zero

3.8 1-45 ✓

8.4 18-0 ✓

11.7 24-30 ✓

16.1 24-30 ✓

20.0 19-45 ✓

25.5 10-15 ✓

19.8 1-15 ✓

15.0 337-45 ✓

11.3 315-15 ✓

9.0 298-15 ✓

7.4 269-0 ✓

4.5 251-45 ✓

8.7 240-0 ✓

Bottom of Run

8.7 229-0 ✓

9.1 207-45 ✓

4.3 205-0 ✓

6.5 320-30 ✓

2.8 07.1

13.4 5-30 ✓

3.2 06.7

1/15/21

Plotted 1/15/21

At 50-37129 Sight center for Zero  
1509.9

Rod 99	32.6	26-15 ✓	20.7	332-01
1500	36.5	22-30 ✓	21.7	326-01
	39.3	16-45 ✓	24.2	320-15 ✓
	47.4	21-01	24.8	311-01
	54.1	19-30 ✓	26.2	311-30 ✓
	56.2	18-30 ✓	28.0	300-30 ✓
	65.3	18-0 ✓	40.1	308-30 ✓
	68.2	16-30 ✓	41.1	300-30 ✓
			44.5	302-15 ✓
Rod 49			48.5	296-01
1505	70.2	14-45 ✓	47.3	289-01
	<del>64.0</del> 64.0	14-30 ✓	48.9	283-01
	53.4	12-15 ✓	47.7	276-01
	51.3	11-01	48.3	275-30 ✓
	47.9	10-0 ✓	49.7	273-45 ✓
	45.4	7-30 ✓	57.3	269-15 ✓
	43.8	7-10 ✓	56.0	268-10 ✓
	42.2	4-40 ✓	57.9	265-30 ✓
	37.7	4-45 ✓	59.3	265-15 ✓
	29.7	9-30 ✓	61.9	262-30 ✓
	25.0	3-01	64.0	262-30 ✓
	21.0	356-30 ✓	65.2	268-01
	19.2	344-0 ✓	67.2	269-01
	22.5	338-45 ✓	71.7	268-01

1509.9

44

2 1/2 hrs. of flight	62.8	261-0 ✓	8.2	01.7
	61.5	235-01	9.7	00.2

Placed 1/18/21



1/22/21

Bub  
Fisher  
Mixer  
From C4475  
Auxil # A

# Concrete Outline Final Contour

At C 50 - Sight center for zero

4.64 1509.05 1504.41

18.3 108-0 3.5 05.6

15.3 118-30 4.5 04.6

11.6 126-20 5.0 04.1

8.3 143-45 6.0 03.1

10.0 208-30 6.3 02.8

14.6 214-45 6.1 03.0

Cor Form

RC 21.3 232-45 5.9 03.7

Cor Form

20.9 236-10 5.8 03.3

Cor Form

34.7 253-30 5.5 03.6

39.0 253-0 5.5 03.6

42.3 255-30 5.5 03.6

45.2 255-0 5.5 03.6

RC Form

49.7 260.0 5.7 03.4

Grout Hole. 40.0 291-30 5.8 03.3

Grout Hole. 61-0 287-15 6.7 02.4

1.15 1507.90

Jan 25 1921  
Platted



1/25/21

806

Fisher

Mixer

At 50 - 371.29 Sight Center  
for Zero Az Right

Auxil Pt. 19.10 120-20

At Auxil. Pt Sight 50 - 371.29  
For Zero Az Right

46 - 414.04 12.10 1515.80 150370

Nail in Rock  
BM East Gate Point #3 6.42 1509.39

Red 58 81.2  
~~80.7~~ 58-01 Red 58 72.0 346-01

1510 73.5 55-30 1510 74.1 347-01

" 74.4 53-30 " 74.0 344-01

" 65.0 49-30 " 76.9 340-01

" 61.5 50-15 " 78.5 335-31

" 54.0 ~~43-01~~ 43-01 " 81.7 336-01

" 54.6 34-01

" 53.6 19-01

" 54.9 10-01

" 57.7 11-45

" 63.1 7-01

" 69.5 359-01

" 70.1 351-45

Platted  
1-25-21

1515.80

R.C. Bittorf Form 69.1 336-45 13.2 02.61

R.C. Top " " 69.3 339-01 8.2 07.81

70.6 309-15 12.2 03.61

70.6 309-15 8.2 07.61

Average Elev. 13.2 02.6

34  
Gallery Pt 10.80 05.00

end of Gallery 4.41 1511.39

U.S.F. Jan 38.4 289-30 11.9 03.9

R.C. 42.0 281-30 12.2 03.6

Average Elev. 12.6 03.2

Top of Form  
End of  
Forms 24.5 220-01 3.4 12.4

Platted 1-25-21

1/28/21

Evb  
Fisher

Mixer. At C 4+90 Sight C 44 for 200  
Az Rt.

Top of firms	101.25	17.83		07.58
Prod 7.8				
1510-15	25.5	151-15		<del>41</del>
1510	33.1	158-0	1510-15	8.11 178-40
1520	<del>37.5</del> <sup>33.0</sup>	156-45	1520	76.2 176-0
1520	33.7	159-0	1520	81.5 177-0
1510	39.8	162-0	1525	77.5 176-0
1515	40-0	159-45	1510	92.6 179-35
1520	41.0	157-0	1515	93.8 179-0
1510-15	45.5	161-30	1520-25	85.5 174-30
1520	46.5	159-30	20-25-30	95.0 175-15
1510-15	52.2	163-30		
1520	55.3	162-0		
1510-15	52.7	167-30		
1510	57.7	173-0		
1515	60.3	170-45		
1520	59.5	164-45		
1520	65.3	170-0		
1515	64.0	171-45		
6510	63.1	175-15		
1510	69.5	177-15		
1515	70.9	175-10		
1520	72.0	174-0		

Platted  
1-29-21

#1 (17.8)

47

At C 4+90 - Sight C 44

13.8	132-30	78	1510
<del>15.0</del> <sup>15.0</sup>	153-0	78	1510
10.3	107-45	6.9	11.4
11.3	79-30	6.4	11.4
19.0	143-0	78	1510
15.3	23-30	2.5	150

12.90

Platted  
1-29-21

1-31-21

Bub  
Fished  
Mixer.

At 52-468" Sight Center for zero

Az. Right

52-468" 4.73 37.55 1532.82

Rod 12.6 41.0 21-30 ✓

1525 43.5 21-35 ✓

" 43.6 16-15 ✓

46.2 13-0 ✓

47.0 4-20 ✓

47.0 354-45 ✓

48.4 347-15 ✓

Rod 7.6 47.3 342-30 ✓

1530 48.0 348-0 ✓

" 44.9 353-15 ✓

42.3 3-40 ✓

37.8 3-30 ✓

At 54-434.49 Sight Center for  
Zero Az Right

BM. 6.73 44.50 1537.77

Rod 9.5 12.7 82.45 ✓ 11.2 7-30 ✓

1535 13.2 71-0 ✓ 13.2 343-0 ✓

15.6 64-30 ✓ 13.6 330-~~40~~ ✓

13.6 53-15 ✓ 18.7 318-15 ✓

11.5 27-30 ✓ 21.3 311-13 ✓

Platted 2-21

Platted 2-21

48

Rod 9.5 23.6 303-45 ✓

1535- 29.5 300-30 ✓

Rod 4.5

1540 29.6 293-30 ✓

23.7 302-45 ✓

21.1 303-0 ✓

16.5 312-0 ✓

11.6 323-15 ✓

6.7 358-0 ✓

2.1 8-30 ✓

1-31-21

Pub.  
Fisher  
Mixer

## Concrete Topog-

49

At 50-371 29 Sight center for  
Zero Az RightBM east center  
Trench #3 - Nail~~1509.35~~

0.96 1510.34

1509.38

6.8	155-15 ✓	6.0	04.31
4.1	225-0 ✓	4.9	05.41
3.8	304-0 ✓	4.8	05.51
7.5	301-30 ✓	4.5	05.81
10.9	316-10 ✓	4.7	05.61
13.7	334-40 ✓	5.2	05.11
21.3	329-30 ✓	5.4	04.81
23.0	322-30 ✓	5.2	05.11
27.9	301-30 ✓	4.9	05.41
41.0	310-45 ✓	4.6	05.71
42.0	302-0 ✓	4.8	05.51
44.8	303-10 ✓	4.8	05.51
48.8	296-45 ✓	4.9	05.41
49.4	283-0 ✓	4.6	05.71
48.1	278-30 ✓	4.3	06.01
48.8	274-30 ✓	4.1	06.21
end of run	51.8 271-30 ✓	4.1	06.21
curtain wall	51.6 266-0 ✓	4.1	06.21

Plat Hed 2-2-21

1.8) 994

add 4 cu yds for

1505.5 average Etc of Filled

2/5/21  
 B.B. Mixer  $H=4.35$   
 ~~$H=5$~~

AT 14-455<sup>22</sup>  
 Sight 14-472<sup>22</sup> for zero Az Pt

Nail in  
 BM Stump. 4.55 82.70 1578.15  
 880 82.70 1573.90

Nail in Stump  
 BM at Tower Hoist 10.56 81.44 1570.88

Rod 1.44  
 1580 6.4 1590  
 " 110 185-15  
 " 21.4 189-45  
 " 22.4 196-15  
 " 34.6 197-30

Platted 2-7-21

16-490<sup>09</sup> 1387 91.76 ~~355~~ 78.95  
 74-495<sup>10</sup> 295 88.81  
 marked 77.89  
 marked 158.886

$H=4.5$   
 AT 12-455<sup>22</sup> Sight. 87.26  
 12-437 for zero Az Pt  
 $H=91.76$  Marked 87.30

Rod = 6<sup>76</sup>  
 1585 29.3 356-15 1585 6.6 358  
 " 29.4 347 5.6 329-30  
 " 25.8 347-15 5.5 288-45  
 " 23.6 357-35 3.2 227-45  
 " 23.3 346-45 23.8 218  
 " 19.9 341-30 30.6 219-30  
 11.3 20-30 36.2 213-40  
 40.0 214-50

Platted 2-7-21

At Hoist  
 for Tower  
 BM 10.56 81.44  
 BM Nail in Stump on 16 line  
 4-436<sup>25</sup>

1570.88  
 marked 73.90  
 8.60 1572.84  
 marked 74-96  
 6.54 74.90  
 marked 74.98  
 6.50 74.94

88.00  
 12.99  
 12.87

2/5/21

Plat Hed 2-7-21

Ht 437 At 12-502<sup>09</sup> Sight 1600.74  
12-437

51

21-45

At 12-455<sup>29</sup> Sight 12-437

87.26

R-626

159176

1585 45.6 214-45 1590 15.1 29°30'

" 470 215-50 " 14.2 27-45'

" 15.4 12-15'

Rod 176 " 18.0 15-15'

1590 49.5 203-50 ✓ " 19.0 9-30'

" 43.8 204-50 ✓ " 20-4 10-30'

" 43.3 700-30 ✓ " 21-6 4-0'

" 40.4 199-15 ✓ " 23.7 1-50'

" 39.9 203- ✓ " 26.3 3°

" 37.9 200 ✓ Platted 2-7-21

" 35.6 205-30 (14-495<sup>12</sup> T.P. -295 1588.81

" 28.2 205-45 ✓ + 1305 Ht=1601.86

" 27.4 198-45 ✓ (12-502<sup>09</sup> -112 1600.50  
marked 1600.50

" 24.3 197-30 ✓ -112 1600.74

" 23.8 192-45 ✓ At 12-502<sup>09</sup> Sight 1600.74

" 15.6 182-45 ✓ Ht=437 12-437 for 00 Az. Pt.

" 8.7 134- ✓ Ht=1605.11

" 3.4 117-45 ✓ (10-446<sup>58</sup> -7.42 Marked 1597.74  
97.69

" 3.9 74-15 ✓ Rod 10"

" 6.5 79-30 ✓ 159.5 18.6 236-30'

" 5.6 68-50 ✓ " 14.9 251 ✓

" 10.4 64-44 ✓ " 10.4 248-45 ✓

" 12.9 54-15 ✓ " 7.7 284-15 ✓

" 12.7 46 ✓ " 10.4 311-30 ✓

Rod 10.11

1595 15.9 330° ✓

" 11.5 332° ✓

" 14.8 348° ✓

" 16.8 359° ✓

" 21.0 10° ✓

" 27.7 16°30' ✓

" 32.3 19° ✓

" 37.7 20°45' ✓

" 40.8 17°45' ✓

" 40.2 15°30' ✓

" 43.5 13°30' ✓

" 43.8 9°30' ✓

" 44.5 9°15' ✓

" 46.3 15° ✓

" 47.7 14° ✓

" 48.8 14° ✓

" 50.3 17°45' ✓

Rod 5.11 44.5 18°30' ✓

1600 41.8 20° ✓

39.0 21°30' ✓

38.0 26° ✓

39.3 29° ✓

32.4 27°45' ✓

30.4 30° ✓

Rod 5.11

Cont 1600

Dist Az.

44.4 18°30' ✓

42.2 21° ✓

39.2' 29° ✓

35.0 32°15' ✓

31.9 29° ✓

29.1 34°45' ✓

20.4 32°30' ✓

20.2 21° ✓

17.3 18° ✓

16.7 29°45' ✓

12.1 30°30' ✓

11.1 20°30' ✓

7.7 12°15' ✓

1.2 351°

1.0 305° ✓

3.9 189°45' ✓

13.3 166° ✓

19.0 162° ✓

Plat Hed 2-7-21

?

Rod 0.11

Cont 1605

24.5 173°45' ✓

14.6 165°45' ✓

9.0 125° ✓

6.1 89°15' ✓

7.0 76°45' ✓

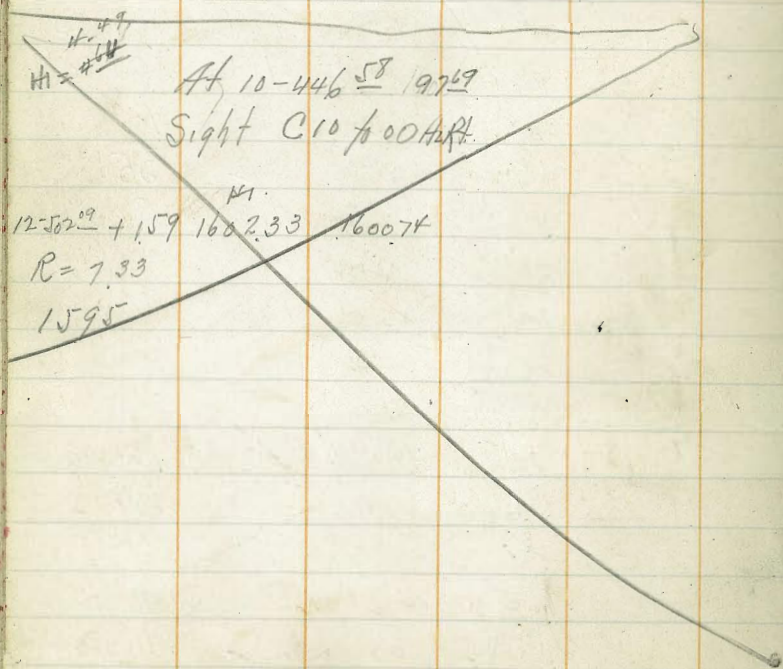
13.0 61°30'

17.0

22

Rod	Dist	Az.
0.11		
Cont 1605	27.7	54° ✓
	35.4	44°45' ✓
	38.1	39°30' ✓
	40.0	37°30' ✓
	41.4	38° ✓
	43.4	38° ✓
	43.5	34°10' ✓
	44.5	29°45' ✓
	47.8	28°15' ✓
	48.0	26°15' ✓

Plotted



2-6-21  
Bryson  
806  
Fisher

52.

	At 10-446 <sup>58</sup>	Sight	12-502 <sup>09</sup>	160074
4.42	<del>180</del>	Az Right		
	4.49	02.22		1597.73
7.22				
12.20	1590	25.9	293° ✓	
7.22	1595	12.5 ✓	203°30' ✓	
	#7 ✓	11.1	208°30' ✓	
		8.3	172°30' ✓	
		5.8	209°30' ✓	
		5.8	220°30' ✓	
		7.0	229°30' ✓	
		10.1	246°30' ✓	
		14.5	275°30' ✓	
		17.2	285° ✓	
		19.4	285°30' ✓	
		24.6	292°30' ✓	
		18.0	294°15' ✓	
		18.8	296°30' ✓	
		12.6	289°30' ✓	
		8.1	296° ✓	
		5.3	299°30' ✓	
		6.5	335° ✓	
		9.3	326°30' ✓	
		9.4 R.C.	311° ✓	
		12.7	308° ✓	
		14.8	298°30' ✓	

R.C.



Contour	Rod	Dist	Az
1545	7.22 F	13.0 Rc	295° ✓
	<del>3.00</del>	11.0 Rc	297° ✓
	99 3.00	17.5	289°45' ✓
	100 3.35	11.8	278°0' ✓
1600	2.22	2.8 Rc	259°30' ✓
✓ Rc		4.3' ✓	242° ✓
✓		4.0' ✓	205° ✓
✓		<del>2.7'</del>	202° ✓
	0.50	3.1	226° ✓
1600 cont.	2.22	11.6	172°30' ✓
		10.8	157°30' ✓
		8.2	151°30' ✓
		9.0	128°30' ✓
		7.4	124° ✓
		8.2	100° ✓
		8.6	68°30' ✓

11-2-7-21

Instrument	Sight	Vernier	Angle right	Dist.	Avx 1 # A
12-502 <sup>09</sup>	12-452 <sup>19</sup>	0	46°32'	47.07	

Sight @ 12 502<sup>09</sup> Vernier at 0 is right

BM	13.28	1614.08		1600.80
T.P.	9.10	1618.76	4.42	1609.66
H.I.				1618.76

Cont	Rod	Dist	Az from 12-502 <sup>09</sup>
1640	8.76	71.0	333°30' ✓
		62.5	334°15' ✓

Cont	Rod	Dist	Az
1610	8.76	55.4	337-15' ✓
✓		50.0	338 ✓
"		49.0	342°30' ✓
"		41.5	346°30' ✓
"		39.6	341° ✓
"		37.6	341° ✓
"		36.9	337° ✓
"		24.5	331°30' ✓
"		10.3	325° ✓
"		7.0	336°30' ✓
"		7.7	36° ✓
"		9.6	81° ✓
"		11.8	96° ✓
"		13.2	100°15' ✓
"		13.0	129° ✓
"		13.3	143°30' ✓
"		12.3	158°30' ✓
"		13.8	153° ✓
"		15.3	165°45' ✓
"		16.3	174°30' ✓
1615	3.76	15.3	189° ✓
"		13.8	187° ✓
"		12.0	171 ✓
"		8.0	173° ✓
"		8.7	150 ✓

Platted 2-8-21

Cont.	Rod	Dist	Az.
1615	3.76	8.5	118°30' ✓
"		7.2	96°30' ✓
"		3.4	213° ✓
"		6.5	236.0 ✓
"		12.0	274° ✓
"		16.5	275°30' ✓
"		18.0	287° ✓
"		26.7	310° ✓
"		36.9	326°30' ✓
"		38.3	332 ✓
"		40.7	333 ✓
"		42.7	331°45' ✓
"		43.4	335°15' ✓
"		46.2	336°15' ✓
"		50.0	333°15' ✓
"		50.5	330°30' ✓
"		58.7	326° ✓
"		64.2	326°15' ✓
"		67.6	328° ✓
"		71.0	327° ✓
"		76.8	327°30' ✓
1605	13.76	17.5	82°30' ✓ Check shot
"		16.6	91° ✓
"		16.0	95°30' ✓
"		14.2	113°30' ✓
"		15.4	128° ✓

Platted  
2-8-21

Cont	Rod	Dist	Az.
1605	13.76	17.2	131° ✓
"	#1	19.4	142° ✓
Inst. at 46°32' right 47.07' from 12-502.09 #B			
Sight at 12-502.09 Angle right 289.87' Dist 41.6			
T.P.		1618.76	0.86 1617.90 nail on stamp
H.I.	9.88	"	1627.78
Azimuths right (vernier 0) from 46°32' 47.07' pt. from 12502			
1620	7.78	49.0	239°30' ✓
		40.9	241°30' ✓
		34.4	248° ✓
		32.0	246° ✓
		23.4	250° ✓
		16.7	250°30' ✓
		8.8	275° ✓
		10.2	358° ✓
		14.3	27° ✓
		22.9	29° ✓
		23.7	18°30' ✓
		25.0	12° ✓
		26.1	9° ✓
		33.7	8° ✓
		39.0	9°30' ✓
		43.0	14° ✓
		41.8	20°15' ✓
		35.0	21°15' ✓

Platted  
2-8-21

24.6  
17.0

1617.90  
938  
178

54

2/6/21

Contour	Rod.	Dist	Az.
1620	7.78	37.4	32° ✓
		34.8	38° ✓
		31.1	44° ✓
		<del>52.5</del> 51.5	52°30' ✓
		48.1	57° ✓
	R.C.	50.3	49° ✓
	R.C.	51.5	45°30' ✓
	✓	49.8	44° ✓
	✓	49.6	46° ✓
	7.00	50.5	45° ✓
1615	12.78	56.5	49°30' ✓
	✓	56.8	47° ✓
	✓	55.0	45° ✓
	✓	54.5	42° ✓
		51.5	37° ✓
		49.0	38°30' ✓
		46.0	43°30' ✓
		36.9	34° ✓
		39.8	31°30' ✓
1605	2.78	25.0	50° ✓
		22.0	47°30' ✓
		18.5	57°30' ✓
		10.7	58.8 ✓
		5.0	44° ✓
		2.7	97°15' ✓

Platted  
2-8-21

H.I. = 1627.78

55

Contour	Rod.	Dist	Az.
1625	2.78	6.0	209°30' ✓
		21.0	232° ✓
		26.5	230°30' ✓
		31.5	235°15' ✓
		33.7	231° ✓
		43.0	229°30' ✓

T.P. 3.73 1624.05 C  
#3  
Angle right 25°45' - 30.33

H.I. 8.12 1632.17

Azimuths right from last point Vernier 0.

1625	7.17	4.8	318°30' ✓
	R.C.	4.1	27°38' ✓
		7.3	47° ✓
		7.8	68°30' ✓
		7.6	94° ✓
		8.2	112° ✓
		9.4	158°30' ✓
		6.1	190° ✓
		5.0	225° ✓
		4.0	280°15' ✓

R.C.

1625	2.6	2.0	85°45' ✓
	7.17	13.6	302°30' ✓
		17.2	302° ✓
		23.0	275°30' ✓
		34.5	259° ✓

Platted  
2-8-21

Top rock

Contour	Rod	Dist	Az.
1630	2.17	21.8	304°30' ✓
		15.3	311° ✓
		15.9	321° ✓
		20.7	320°15' ✓
		24.3	315°30' ✓
		25.4	309°30' ✓
E=1633.28		21.6	313°30' ✓

Top rock

At 6 - 470.65 sight 8-450 fr zero  
 HI 4.90 Az Right 1  
 6-470.65 4.90 1620.25 1615.35

Rod-10.3	11.5	359-0 ✓
1510	14.0	49-0 ✓
"	18.2	48-30 ✓
"	20.8	58-0 ✓
"	23.5	73-30 ✓
"	24.6	81-30 ✓

At

Platted 2-8-21

HI 50	At	8-950	Sight	10-446	58
			fr zero	Az. Right	
		5.0	1606.85		1601.85
Rod 1.9	7.1	313-45 ✓			
1605	6.3	325-30 ✓			
"	2.4	313-0 ✓			
"	6.3	228-30 ✓			
"	8.4	189-30 ✓			
"	15.0	178-0 ✓			
"	17.7	171-30 ✓			
"	22.0	161-45 ✓			

Platted 2-8-21

2-9-21  
Fisher  
Mixer

At 8-450 Sight C 8 for Zero Az Right

8-450		495	06.80	1601.85
at 6.8				
16.00-	30.1	71-45 ✓		
"	20.3	65.0 ✓		
"	12.4	66-30 ✓		
"	6.5	53-30 ✓		
"	6.7	14-30 ✓		
"	6.7	322-0 -		
"	4.7	318-0		
"	4.6	305-40 ✓	Plated	
"	9.3	298-30 ✓		
"	13.2	286-30 ✓	2-10-21	
"	13.6	268-0 ✓		
"	15.0	265-30		
"	15.6	256-15		
"	19.1	258-0		
"	22.4	250-0		
"	23.5	250-0		
checkup.	27.2	248-15		

57

At 10-446 <sup>58</sup> Sight 10-<sup>350</sup>~~345~~ for

Zero Az Right -

10-446 <sup>58</sup>		4.03	01.76	1597.78
Red 118	24.7	314-0		
1590	19.8	318-45 ✓		
"	17.0	324-30 ✓		
"	17.3	326-30 ✓		
"	17.7	338-0 ✓		
"	17.0	15-0		
"	17.3	29-45		
" around	19.6	33-30		
" small	19.5	43-30		
" line	18.4	46-45		
"	20.8	57-0		
"	27.0	56-30		
"	25.9	42-0		
"	31.8	48-0		
"	33.3	56-30		

Plated  
2-8-26

2-9-21

Bv6  
Fisher

Mixtar At 12-502.09 Sight 12-455.79 for  
Zero Az Right

4.53 1605.33 1600.83

Rod 53

1600 30.1 187-30 ✓

26.1 192-30 ✓

17.4 197-0 ✓

11-0 193-0 ✓

3.6 189-30 ✓

1.6 311-0 ✓

1.6 338-0 ✓

9.8 12-15 ✓

11.9 31-0 ✓

17.1 29-45 ✓

17.4 18-45 ✓

20.0 21-30 ✓

20.5 31-30 ✓

28.9 35-0 ✓

31.8 29-30 ✓

36.2 33-30 ✓

39.2 30-0 ✓

41.8 23-30 ✓

42.0 21-15 ✓

44.3 19-0 ✓

T.P.

7.57 97.76

Platted  
2-10-21

58

At 10-446.58 Sight 10-315 for Zero  
Az Right

~~4.07 1601.78 1597.76~~

At Auxil "B" Sight #1 from 12-502.09  
for Zero Az Right

10.61 28.54 1617.93

Rod 8.5

18.20 23.3 250-30 ✓

" 32.0 246-0 ✓

" 35.0 248-0 ✓

" 37.9 245.5 ✓

" 42.8 241-30 ✓

" 46.3 240-45 ✓

" 47.5 239-30 ✓

" 51.0 241-35 ✓

Rod 35

15.25 49.7 232-0 ✓

" 43.7 230-0 ✓

" 35.8 231-0 ✓

31.7 235-0 ✓

27.8 232-0 ✓

26.0 231-0 ✓

21.7 232-30 ✓

Platted  
2-10-21

2-16-21

Bub

Fisher

Mixer

At 50 - 371.29 Sight center  
for Zero - Az RightNail in rock,  
Auxil "A"

56.45 273-31

At Auxil "A" from 50 - 371.29 Sight  
50 - 371.29 for Zero Az Right

Auxil "A"	4.95	14.33		1509.38	
+ 0.7	66.0	319-45	1515	5.5	260-0
1515	62.7	318-0	"	8.5	201-0
"	60.5	318-45	"	13.7	171-0
"	57.0	317-15	"	16.1	183-0
"	51.2	313-0	"	18.1	183-0
"	46.9	312-0		gap	
"	42.5	312-0		46.3	181-45
"	40.7	313-30		48.5	180-0
"	35.1	307-15		50.5	178-45
"	32.9	304-0		57.9	167-45
"	24.1	296-30		60.0	165-30
"	19.7	290-30		59.5	162-0
"	12.5	285-0		60.0	160-0
"	11.7	277-45		63.2	155-0
"	12.6	269-0		62.6	153-0
"	9.0	268-0		63.9	150-45

Plotted 2-17-21

59

1515	64.4	146-0	1510	60.9	143-30
"	60.1	140-30	"	58.4	142-15
"	54.5	131-20	"	58.2	139-30
"	50.7	122-45	"	54.2	130-30
gap	49.8	116-30	"	50.2	130-30
				48.5	125-0
Rd 4.3				49.5	122-30
1510	16.9	174-30		48.9	115-0
	14.7	174-30			
	13.1	169-0			
	8.8	183-30			
	5.0	158-45			
	4.2	262-15			
	13.8	295-0			
	gap				
	43.8	179-45			
	48.9	177-0			
(+ 15)	52.2	171-45			
gap hole	57.1	165-15			
6.4	58.5	163-0			
1510	58.5	163-0			
"	59.1	160-30			
	60.5	157-30			
	60.4	156-15			
	62.4	153-30			
	62.2	148-40			

Plotted 2-17-21

0.8.00

2-17-21

Bob  
Fisher  
MixerAt Auxil 'A' from 50-37129  
Sight 50-37129 for 2010 Az Rt.

Ht 4.83

Fl. 14.2

Auxil 71

4.83 14.21

1509.38

Rd 9.2

1505 37.9 177-15 ✓

" 38.4 161-0 ✓

" 46.0 152-0 ✓

" 54.4 150-0 ✓

" 60.1 143-45 ✓

✓ 55.0 133-15 ✓

" 49.7 135-30 ✓

" 40.1 137-30 ✓

" 39.4 13-4-0 ✓

" 39.5 132-0 ✓

" 40.0 124-30 ✓

" 44.4 121-45 ✓

" 47.5 118-30 ✓

guess 47.3 113-0 ✓

Nail  
Auxil 'B'

38.18 144-02

13.11 0.1 .11

Flatted  
2-17-21

60

At Auxil 'B' Sight 'A' for Zero

Az Right

Auxil 'B'

4.5 1505.6

1501.11

amount Ht #14

4.6  
1501.2

2.0 243-36

compute  
1500

33.3 45-0 ✓

" 30.5 44-30 ✓

Rd 5.6 19.5 293-15 ✓ " 29.2 36-0 ✓

1500 13.6 301-30 ✓ ✓ 25.0 39-30 ✓

" 12.8 307-30 ✓ ✓ 26.2 25-0 ✓

" 9.6 314-0 ✓ ✓ 26.0 17-10 ✓

" 6.7 329-15 ✓ ✓ 23-0 14-45 ✓

" 4.0 334-30 ✓ ✓ 20.1 20-40 ✓

" 2.9 000 ✓ " 19.2 4-30 ✓

" 2.3 31-0 ✓ ✓ 20.6 345-30 ✓

" 8.5 57-0 ✓ " 19.9 342-15 ✓

" 13.7 61-45 ✓ ✓ 23.9 316-30 ✓

" 19.7 84-45 ✓

" 23.9 86-20 ✓ 0.6

" 24.4 79-30 ✓ 1505 28.5 313-45 ✓

" 25.0 68-15 ✓ 24.6 324-30 ✓

" 32.5 67-30 ✓ 23.1 344-0 ✓

" 35.8 67-10 ✓ 23.8 344-45 ✓

" 41.5 60-00 ✓ 23.0 350-45 ✓

" gap 26.9 354-45 ✓

" 27.8 000

" 260 11-0 ✓

Flatted  
2-17-21



2-17-21

15056

1505	30.0	11-00	1495	29.5	65-30
	22.5	9-45		<del>32.3</del>	65-45
	33.7	10-45		37.5	61-00
	36.0	7-30			
From	40.3	8-00	<sup>00.7</sup> 4.9	15.5	158-00
			<sup>00.7</sup> 4.9	9.6	758-15
rd 10.6			<sup>97.4</sup> 62	5.7	175-30
1495	36.8	<del>59-00</del>			
"	32.0	54-00	Auxil C	17.75	321-35
"	34.3	47-45			
"	22.3	41-30		10.7	94.9
"	<del>19.0</del>	21-00			
"	17.8	357-00			
"	21.5	328-30			
"	16.9	<del>307-00</del>			
"	15.0	316-45			
"	9.3	339-45			
"	10.8	346-00			
"	11.8	29-30			
"	12.0	40-15			
"	14.7	50-00			
"	18.0	60-00			
"	20.5	62-45			
"	23.5	68-15			
"	24.4	65-15			

Plotted  
2-17-21

Bottom was

15  
1247  
27

61

At Auxil 'A' from 50-371-29 Sight  
Auxil B for zero Az Right

Auxil D" 27.47 311-33

At Auxil 'D' Sight Auxil 'A' for zero Az Right

Auxil B 0.39 01.50 0.11

rd 11.5

90. 4.6 209-30

6.1 257-00

7.7 279-00

11.2 277-15

11.2 262-30

9.5 259-30

9.2 245-30

8.7 229-00

8.2 269-30

88.0  
13.5  
Bottom

At Auxil 'A' from 50-371-29 Sight

Auxil B for zero Az Right

Auxil A 4.92 14.30 1509.38

Auxil E 48.28 344-53 4.01 10.29

Plotted  
2-17-21

2-17-21

At Auxil "E" sight Auxil A for  
Zero Az Right

Auxil "E" 461 14.90 1510.29

1510 44.7 304-30 ✓

10 47.2 325-0 ✓

1515 51.5 325-0 ✓

" 50.9 317-15 ✓

" 49.0 304-0 ✓

Platted 2-17-21 ✓

2-18-21

Sub  
Fisher  
Muster

East Tangent  
Location of Form-

At C 6+0394 Sight C50 for Zero  
Az Right

Auxil B" 7.17 1508.27 ✓ 1501.10

38.5 311-0 ✓ 140 94.3 ✓

33.0 297-15 ✓ 12.8 95.5 ✓

Location of Fillet.

At 50-41929 Sight center for  
Zero Az Right

B 48 12.20 24.98 1512.78

San 26.8 53-0 Top 3.05 21.9

RC 25.0 63-15

RC 27.5 66-0

San 29.8 56-30 Bot 93 15.7

Platted  
3-16-21 ✓

62

2-28-31

Bub  
Fisher  
Mixer

Sections for Est of additional Yardage

60' Raise To present Height of Dam +

about 7460  
BM

12.79 62.59 ✓ 1649.80 ✓

Top of Rock 11.78 72.07 ✓ 2.30 60.29 ✓

C 78 8.82 63.25 ✓

TP on Rock 12.13 81.77 ✓ 2.43 69.64 ✓

C 80 5.66 76.11 ✓

At C 78 - Sight C 50 Turn 90°

C 78 495 68.20 ✓ 1663.25 ✓

78 Line  
South

8.8 ✓ 7.4 60.8 ✓

12.6 ✓ 7.0 60.2 ✓

20 ✓ 7.0 61.2 ✓

35.5 ✓ 3.7 64.5 ✓

45 ✓ 7.7 66.5 ✓

2.0 ✓ 3.7 64.5 ✓

4.0 ✓ 8.0 60.2 ✓

14.0 ✓ 6.7 61.5 ✓

22.0 ✓ 3.7 64.5 ✓

23 ✓ +0.8 69.0 ✓

30 ✓ +1.8 70.0 ✓

Platted 3-5-21

North

68.20

C 77 South

15.0 53.2 ✓

14.7 53.5 ✓

13.7 54.5 ✓

10.6 57.6 ✓

8.5 59.7 ✓

North

12.5 ✓ 12.8 55.4 ✓

20.5 ✓ 10.7 57.5 ✓

25.8 ✓ 10.0 58.20 ✓

\*32.8 ✓ 3.0 65.2 ✓

At C 80 Sight C 50 - Turn 90°

C 80 4.7 80.8 ✓ 76.11 ✓

5.0 ✓ 3.7 77.1 ✓

12.9 ✓ 2.8 75.0 ✓

21.0 ✓ 2.0 78.8 ✓

31.0 ✓ 1.0 79.5 ✓

Platted 3-6-21

South

5.0 ✓ 4.0 76.5 ✓

27.8 ✓ 5.0 75.8 ✓

33.0 ✓ 0.0 80.8 ✓

(damaged at I 11)

2-28-31

Bub  
Fisher  
Mixer

Sections for Est. of additional Yardage

60' Raise To present Height of Dam +

about 7460  
BM

12.79 62.59 ✓ 1649.80 ✓

Top of Rock 11.78 72.07 ✓ 2.30 60.29 ✓ 00 ✓

C 78 8.82 63.25 ✓ 25.5 ✓

TP on Rock 12.13 81.77 ✓ 2.43 69.64 ✓ 35.0 ✓

C 80 5.66 76.11 ✓ 44.8 ✓

At C 78 - Sight C 50 Turn 90°

C 78 495 68.20 1663.25 20.5 ✓

78 Light South 7.4 60.8 ✓

8.8 ✓ 7.0 60.2 ✓

12.6 ✓ 7.0 61.2 ✓

20 ✓ 3.7 64.5 ✓

35.5 ✓ 7.7 66.5 ✓

45 ✓ 37 64.5 ✓

2.0 ✓ 8.0 60.2 ✓

4.0 ✓ 6.7 61.5 ✓

14.0 ✓ 3.7 64.5 ✓

22.0 ✓ +0.8 69.0 ✓

23 ✓ +1.8 70.0 ✓

30 ✓

Platted 3-5-21

North

68.20

C 77 South

15.0 53.2 ✓

14.7 53.5 ✓

13.7 54.5 ✓

10.6 57.6 ✓

8.5 59.7 ✓

North

12.5 ✓ 12.8 55.4 ✓

20.5 ✓ 10.7 57.5 ✓

25.8 ✓ 10.0 58.70 ✓

737.8 ✓ 3.0 65.2 ✓

At C 80 Sight C 50 - Turn 90°

C 80 4.7 80.8 ✓ 76.11 ✓

5.0 ✓ 3.7 77.1 ✓

12.9 ✓ 2.8 75.0 ✓

21.0 ✓ 2.0 78.8 ✓

31.0 ✓ 1.0 79.8 ✓

Platted 3-6-21

South

5.0 ✓ 4.0 76.5 ✓

27.8 ✓ 5.0 75.8 ✓

33.0 ✓ 00 80.8 ✓

(Old survey pt I 11)

✓

At C 5488.71 Sight C50 for zero  
Az Right.

April 7 Mon  
20-371.29

4.62 1514.00 1509.38

Red 40	39.9	255-30	vert 7	9.0	135.0
1510	38.2	253-0			
"	37.5	248-45	vert 22	9.0	135.0
"	36.0	244-30	1515	11.4	151-30
"	36.9	242-45	8' vert	13.7	147-0
"	36.3	239-45		10.0	144-45
"	39.0	238-0	vert 8'	15.0	154-45
"	37.8	233-15	vert 5'	16.3	160-00
"	35.4	233-0	vert 12'	18.5	156-30
"	33.8	222-15	vert 20'	25.2	167-0
"	35-0	221-15	vert 13'	29.6	175-15
"	34.6	217-0	1515	29.3	178-30
"	35.5	207-30	"	34.4	187-0
"	36.0	197-0	"	37.0	195-0
"	32.9	192-20	"	37.0	199-0
"	33.0	187-15	"	38.5	203-0
"	28.5	180-0	"	38.5	210-45
Vert 15.0	28.8	174-15	"	37.9	220-45
Vert 20.0	24.2	167-0	"	37.2	225-30
	22.2	174-30	"	40.7	239-0
	18.1	175-0	"	41.8	244-0
	10.7	159-0	"	43.6	248-0

Plotted 3/9/21  
4/20/21

1515 42.6 250-15 42.6  
43.9 254-0  
April A" 41.5 249.36

Plotted 3/9/21  
4/20/21 64

1.14 12.86

At C 50 - measured west wall  
13.57 - on Tangent - Nail in Concrete

49.42  
108

Nail in whale 51.50

At C 50 measured East -

49.42 = Nail in Form -

51.50 Nail in whale -

Nail in Fillet  
B.M. R.P. - 488

East Tangent  
Lift 4

measured  
Book 16

Dirt cut 3.12

7.09 37.54 1530.45

60  
62  
55.596  
56  
65  
29.8 59.6 31.59  
464  
462  
478  
1404  
368  
368 33.86

3-8-21

8vd  
Fisher  
Mixer.Sections for Est. of Additional Yardage  
60' Raise to Present Height of Dam.

.65

				Level to road T.P.	C 00	
	7.7	67.2	1659.46	T.P.	.53	40.00
						34.66
C-80		3.7	63.51	C 00		10.6
	Same Elev - all across -			25.11		6.6
	c-60					
	5.30	59.58	5438	5.0's		9.5
10' N.		8.1	51.51	8's		14.5
35.5		5.0	54.61	21.5		14.5
				28.5		9.5
	c-40			68.5		9.5
C 40	11.0	52.6	41.64			
25.5		3.4	49.21			
26		+0.9	53.51			
66		+0.9	53.51			
5 N.		14.6	38.01			
20' N.		14.6	38.01			
	c-20					
C-20	5.3	42.4	37.09			
16 N		4.5	37.91			
25 N		4.5	37.91			
37.5		6.4	36.01			
47		+2.0	44.41			
67		+3.0	45.41			

Platted  
3-8-21

3-10-71  
Bub  
Fisher  
Mixed

Final Contours

A+C-5+90 - Sight C 50 ft  
Zero A2 Rt.

595

5.95 23.87

1792

Na. 1  
C 6+10

7.76 20.62

1512.86

4.30 16.32

Red 38

A+C 6+10 Sight C 50 ft Zero A2 Rt.

1520 26.9 27-30 ✓

29.4 33-45 ✓

21.4 41-15 ✓

17.4 45.0 ✓

17.1 52-30 ✓

14.6 69-0 ✓

9.0 104-30 ✓

10.4 130-30 ✓

12.4 147-0 ✓

14.5 156-0 ✓

17.1 156-0 ✓

Platted  
3-12-71

Red 16  
end of form

Front Face 4.9 102-30 ✓

53 18.6

R.C. 9.2 118-15 ✓

53 18.6

C 6+10

4.95 21.27 ✓

1632

Red 13

vert 7

1520

8.4 64-45 on of form 30.9 278-45 ✓

vert 12

5.9 91-151 contraction joint Red 4.40 1516-9

vert 13

6.3 123-0 ✓

vert 7

2.6 156-30 ✓

9.0 176-30 ✓

11.1 188-0 ✓

13.8 192 ✓

15.0 189 ✓

15.4 196-0 ✓

16.7 208-0 ✓

20.5 215-0 ✓

21.4 231-0 ✓

30.6 263-0 ✓

37.9 270-30 ✓

45.0 279-30 ✓

49.4 279-45 ✓

Platted  
3-12-71

3-11-21

Bub  
Fisher  
Mixed

outline of concrete

C 6+10                      4.95    21.27                      16.32

8.4    179.0 ✓                      5.8    15.51

15.2    205.30 ✓                      6.3    15.01

20.0    227.2 ✓                      6.3    15.01

25.8    254 ✓                      5.5    15.81

avg    Filled  
         Elev                      4.9    16.4

Platted  
5-12-21

Lift

cont'd on  
front

14.5 ✓

C 50

15.1 ✓

5+11

16.1 ✓

5+22.1

16.6 ✓

5+32.2

17.3 ✓

with - Joints

17.8 ✓

5+49.5

Platted  
3-12-21

#1 Lift

#3 ✓ 1-1x10x10 ✓

#2 Lift

✓ 1-1x10x10 ✓ 2.7

✓ 1-1x5x20 ✓

#4

✓ 1-1x5x10 ✓ 1.8

✓ 1-1x10x20 ✓

4-1x10x10 ✓

✓ 1-1x10x10 ✓

#5

1x5x9 ✓

1x5x15 ✓

1x10x10 ✓

1x10x10 ✓

2x10x10 ✓

#6

1-1x10x20 ✓

1-1x10x5 ✓

1-1x10x20 ✓

1-1x10x20 ✓

1-1x10x5 ✓

#7

1-1x10x15 ✓

1-1x10x20 ✓

Ends -

1x5x20

1x5x5

8 cu yds

103.9 cu yds -

79

111.8 cu yds

112 cu yds

11 yards  
Book 13 page 9



Fr Final  
Contours —

see Book 18

See Book

Elevation of Coordinate Points.  
+  
Reference Points.

Station	Elev.	Station	Elev.
455.79	B Line	450	B Line
			East Tangent
Tangent 12		54-468	
" 14		56	1550.34 ✓
" 16		58	1559.53 ✓
P.C. 18	1557.81 out	60	1568.41 ✓
20	1545.11	62	1579.43 ✓
22	1534.73 ✓	64	1588.64 ✓
24	1525.20 ✓	66	1603.56 ✓
26	1503.85 ✓	68	1617.48 ✓
28	1488.45 ✓	70	1624.03 ✓
30	1472.35 ✓	74	1650.44 ✓
34	14	62-428	
36	OUT	64-429	
38	1470.30 ✓	325	Line
40	1473.85 ✓		East Tangent
42	1480.64 ✓	60	1571.25 ✓
44	1489.94 ✓	62	1582.59 ✓
46	1502.68 ✓	64	1591.57 ✓
48	1512.78 ✓	66	1602.58 ✓
EC 50		68	1612.52 ✓
52-468	1532.83 ✓	70	1623.02 ✓
		72	1633.50 ✓

Elevation of Coordinate Point  
+  
Reference Points.

Station	Elev.	Station	Elev.
300	Line	250	Line
	East Tangent		
50	1524.46 ✓	42	1507.15 ✓
52	1536.34 ✓	44	1513.11 ✓
54	1540.42 ✓	46	1519.99 ✓
56	1551.41 ✓	48	1526.25 ✓
58	1560.76 ✓	50	
60	1571.50 ✓	60	1568.21 ✓
<hr/>		<hr/>	
275	Line	C	Line
	East Tangent		
60	1567.79 ✓	48	1516.75 ✓
62	1579.68 ✓	50	1522.70 ✓
64	1588.49 ✓	52	1526.16 ✓
66	1600.42 ✓	54	1534.24 ✓
68	1614.82 ✓	56	1544.97 ✓
70	1622.85 ✓	58	1553.97 ✓
72	1633.30 ✓	60	1564.05 ✓
<hr/>		62	1573.18 ✓
250	Line	64	1581.76 ✓
		66	1591.76 ✓
38	1491.47 ✓	68	1602.39 ✓
40	1496.25 ✓	70	1613.53 ✓
		72	1624.63 ✓
		74	1635.70 ✓

# Elevation of Coordinate Point.

## Reference Points

Station	Elev.	Station	Elev.
Miscellaneous		Miscellaneous	
00 -		14-350 <sup>42</sup>	1556.70 ✓
00		14-4179	<del>1578.02</del> 1577.98 ✓
2		14-4362	<del>1574.94</del> 1574.94 ✓
2		14-495 <sup>10</sup>	1588.91 ✓
4- <sup>out</sup> 350	1603.26 <sup>out</sup>	16	
4-455	1615.92	16-309	1539.58 ✓
6- <del>470.65</del> 470.65	<del>1615.38</del> 1615.38	16-3339 <sup>0</sup>	1569.42 ✓
6		16-446.17	<del>1567.82</del> 1567.82 ✓
8		16-490 <sup>09</sup>	1577.99 ✓
8+450	1601.85	16- <del>501.44</del> 502.17	1564.95 ✓
10		18-4707 <sup>3</sup>	1561.57 ✓
1 <sup>out</sup> 15	1573.77 ✓	18-435 <sup>09</sup>	1554.12 ✓
10-442	1596.55 ✓	18-303	1529.40 ✓
10- <del>446.56</del> 446.56	<del>1597.27</del> 1597.27	18-488	1561.11 ✓
10-350	1576.97	20- <del>out</del> 2	1515.59 ✓
12- <sup>out</sup> 315	1561.72	20- <del>out</del> 21	1544.71 ✓
12- <sup>out</sup> 340 <sup>13</sup>	1569.42 ✓	20-505	1549.60 ✓
12-426 <sup>32</sup>	<del>1587.35</del> 1587.35 ✓	20	
12-437	1588.38 ✓	22-409 <sup>24</sup>	out
12-502.09	1600.83 ✓	22-417 <sup>40</sup>	out
14 -		22-497 <sup>40</sup>	1542.61 ✓
14- <sup>out</sup> 9	1551.84 ✓	24-432	1525.75 ✓
		24-505	out

# Elevation of Coordinate Points

## Reference Points

Station	Elev.	Station	Elev.
Miscellaneous		Miscellaneous	
Ref. Pt	Mark on	40-413 <sup>53</sup>	out.94 ✓
24-800	Rock for Line.	40-674	Ref Pt
26		40	
26-471.90	1510.42 ✓	42-217 <sup>11</sup>	1514.56 ✓
7 on Rock	across Conduit.	42-412.67	14 out ✓
26-570	Ref Pt.	42-420 <sup>2</sup>	14 out ✓
26		42-434 <sup>02</sup>	1491.70 ✓
28L		42-624	1586.01 ✓
28-481.77	1503.57 ✓	44 -	1481.42 ✓
(28-500)		44-420	
28 on Rock	across	44-420	
	Conduit.	44-218 <sup>90</sup>	1517.70 ✓
30-431.23	out	44-414 <sup>48</sup>	1491.53 ✓
30 Year B 30	out	44-670	1570.82 ✓
30-282.46	1463.59 ✓	44	
31-430	146 out	46	
32		46-338 <sup>0</sup>	1481.42 ✓
34-118.66	out out	46-414 <sup>04</sup>	1503.70 ✓
34-274.14	1467.05 ✓	46-432 <sup>22</sup>	1509.70 ✓
34-425.84	out out	48 -	
34-477.82	out out	48-416.05	
36		50-371 <sup>29</sup>	out
38-229.54	1509.45 ✓	50-56.91	out
38-480.41	14 out ✓	50-171.36	out
38-425	14 out ✓	52-468.11	1532.83 ✓
38-350			
38-325			
40-219.12	1513.09 ✓		

7 on Dam  
anchor

Harris BM: LIST OF BM's  
 Iron Pin 40' - of Conroy #2 Barnett Dam Datum 1626.33  
 T.P. B.M.

	West end "P" Line above Quarry <sup>to</sup>	1751.67
	Nail in Rock - (West Cableway) 30' N - 3+00	1764.33
	Nail in 2x8 (North side Tunnel) <sup>"P" Line</sup>	1650.97
out	Nail in Stump about 10-340	<del>1579.55</del>
	Nail - 10- <del>446.58</del> <sup>447.0</sup> End of Steel Pipe	1597.77
	Concrete Joint Sewer	1570.96
	Nail in Stump about 12-330	<del>1570.98</del>
	Nail in Stump about 16-468	1572.94
		<del>1573.90</del>
out	Nail in stump about 17-410	1550.96
out	On Top of Rock Near Concrete Tower #1	1546.24
	Nail in Rock about 24-432	1525.75
	+ on	
T.P.	Top of Rock - 44-385	1474.44
	Nail in Stump near "B" 30	1471.73
	Nail in Stump 11' East - 52-465	1537.77
✓	Hub about C 7+60 with witness.	1649.80
	Old engine Base <sup>west side</sup> Canyon.	1461.38
	Top of Rock 7' East 34-329	1472.82
	Nail	
	50-371 <sup>29</sup> Nail in Rock	
	50-345-65 + on Rock	1506.25
	East Cony Joint #3	
B.M.	Nail in Rock	1509.38

(48)  
76.42  
64.42

11  
57

4.5

4.30



11.6  
4.0

157.84  
95  
13.4

480