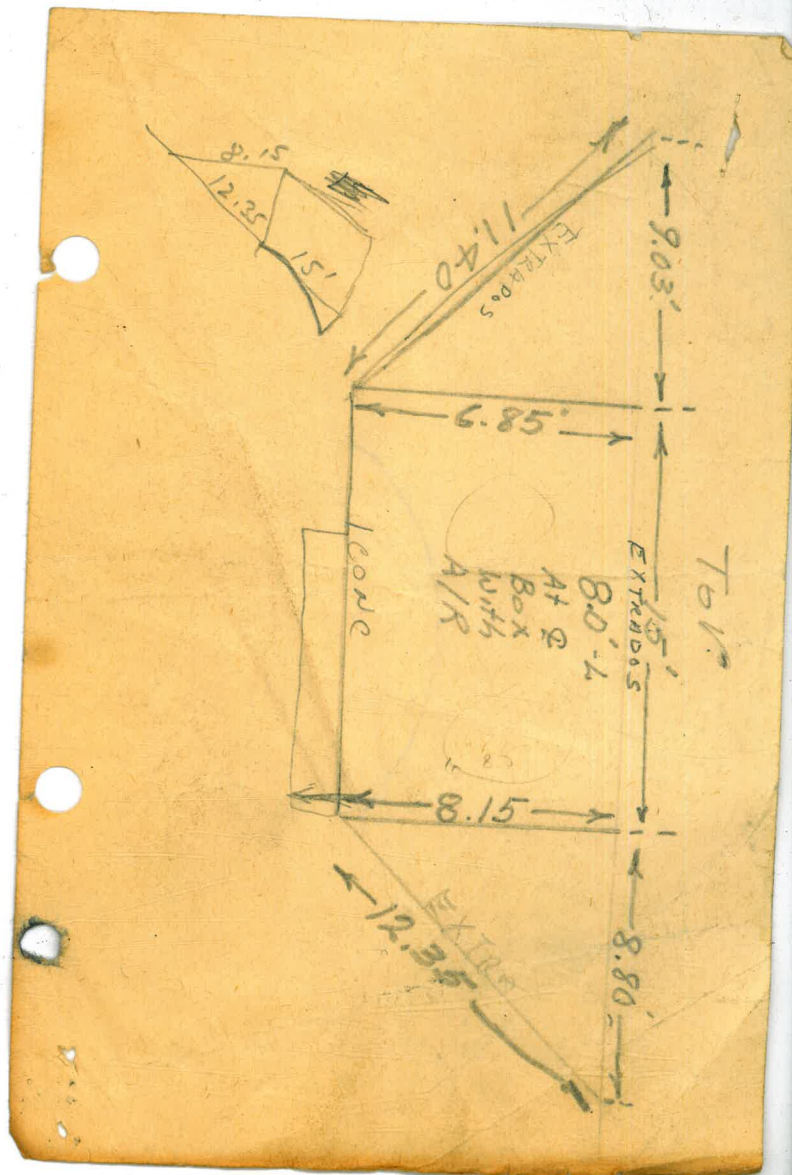


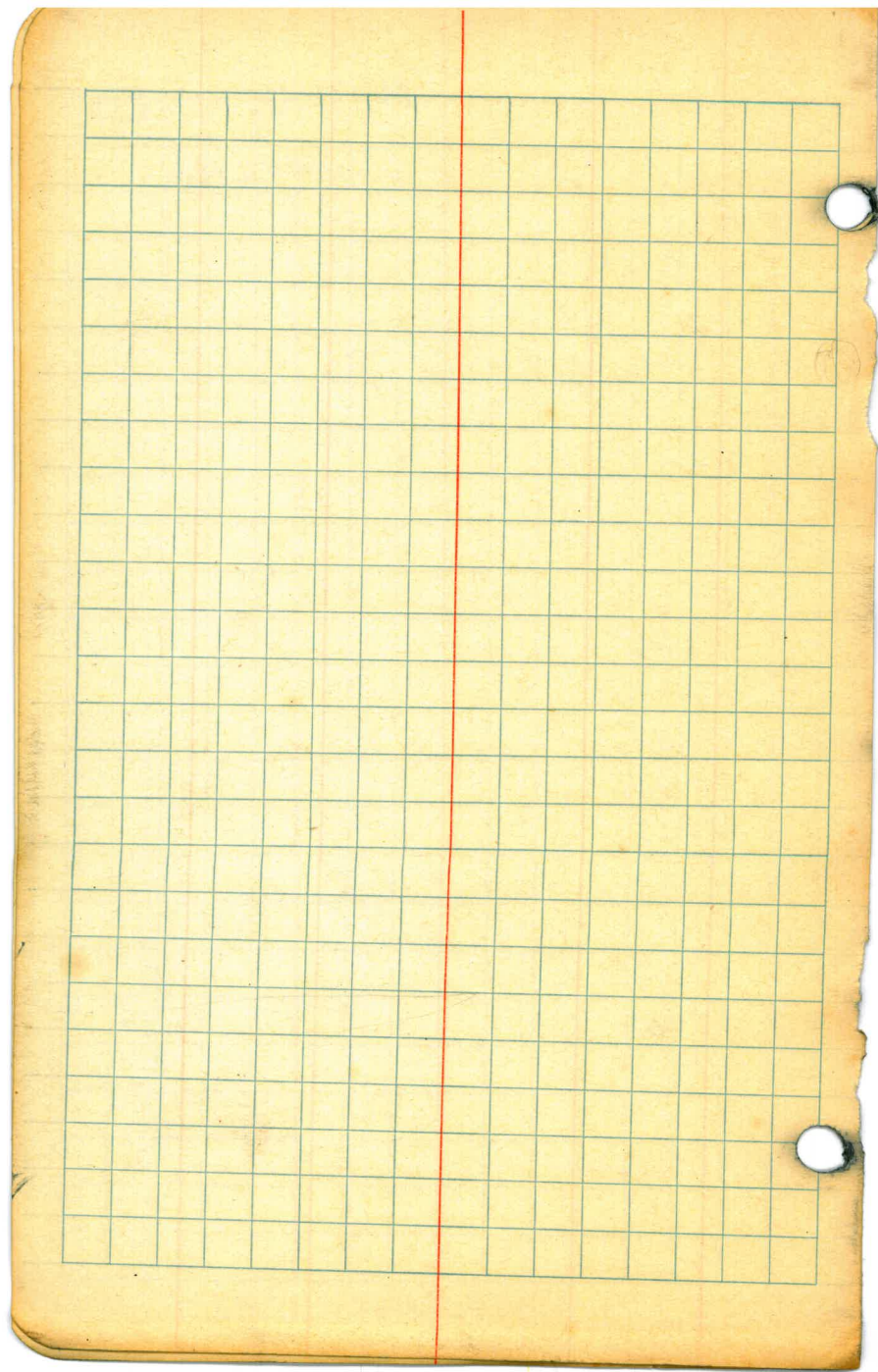
W886

FINAL
X-SECTION



INDEX MICROFILMED

PAGE	DESCRIPTION
1-5	X-SECT E. CHAMBER JAN 18 1965
6-9	FINAL X-SECT. PIER No 1
10-24	FINAL X-SECT. BUTTRESS #1 L-987 - L-1052 - L-1056 - 27 L-1068
25-27	Finals X-SECT. #1-2 RING
28-39	FINAL X-SECT. #4 BUTTRESS L-947 - L-1127
40-46	FINAL X-SECT. #6 BUTTRESS L1060 - L1005
50-52	FINAL X-SECT. HEAD END BOST #7 L-110.8 - L1160
53-54	FINAL X-SECT #7 BUTTRESS L1140 - L1162.3
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57	FINAL X-SECT TRASH RACK D1620 - D1640



FINAL
East Gravity X-Sections
3-31-53 & 4-1-53

10 pages

Plotted 5-6
JJB

① East Gravity X-Section 2

Sta. + \uparrow - Elev.

W 6.09 2054.97 2048.82

(2055.0)

D 876.2 North 22.2 13.8 11.2 5.9 3.4 2.2
 9.3 7.7 7.6 9.5 9.3 9.1

2045.7 2047.8 2047.6 2048.5 2045.7 2046.9
 27.4 33.3 36.7 27.0
 10.5 11.2 11.4 9.3
 2044.5 2043.8 2043.6 2045.7

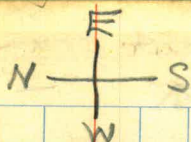
✓ 41.7 48.6 38.4
 4.9 5.5 8.0
 2050.1 2049.5 2046.2

D-873.0 13.2 9.6 9.2 6.4 3.9 1.0
 +1.1 0.0 3.0 9.0 6.7 7.2
 2056.1 55.0 52.0 46.0 48.3 47.8

✓ 16.2 22.5 29.0 33.0
 0.9 +2.0 7.9 8.9
 54.1 57.0 47.1 46.1

✓ 40.0 34.0
 4.6 6.5
 50.4 48.5

3-31-53



Soyster
 Hocker
 Halstead
 Wells

(2)

Baseline 0 = L-1029 0

Sections are run North & So, from 0

2046.8
 90

2047.8
 91.0

2049.3
 94.0

2052.2
 95.5

2054.8
 97.2

(2055.0)

0
 6.1
 48.9

3.9
 6.3
 48.7

6.7
 4.7
 50.3

8.9
 5.1
 49.9

11.0
 0.2
 54.8

13.5
 +1.5
 56.5

16.8
 1.0
 54.0

21
 +1.2
 56.2

Continued on page 3

③ 2 Continued from page 2

Sta. + π - Elev.

871.0	+14.0 +1.3 56.3	+14.0 +1.8 56.8	+9.3 +0.8 55.8	8.3 3.2 51.8	4.6 4.9 50.1
-------	-----------------------	-----------------------	----------------------	--------------------	--------------------

✓	16.0 +2.9 57.9	17.7 +3.7 58.7	19.0 +8.5 63.5	29.0 +10.4 65.4	30.0 +13.4 68.4
---	----------------------	----------------------	----------------------	-----------------------	-----------------------

✓ +14.0

~~20.0
69.0~~

D 863.5	15.3 +7.4 62.4	15.3 +3.3 58.3	11.5 +1.9 56.9	9.2 +1.8 56.8	8.4 0.5 54.5	3.0 5.6 49.4
------------	----------------------	----------------------	----------------------	---------------------	--------------------	--------------------

✓	15.3 +12.1	22.0 +14.1	25.5 +16.8	31.6 +17.7
---	---------------	---------------	---------------	---------------

~~20.0
67.1~~

~~20.0
69.1~~

~~20.0
71.8~~

~~20.0
75.1~~

✓ +14.0
20.9

~~20.0
75.9~~



(4)
2

(2055.0)

5.7	5.9	6.8	8.1	8.4	12.5
2049.3	2049.1	2053.2	2053.	2055.5	2049.4
					60.6
			21.0		14.5
			+ 6.2		+ 5.7
			2048.8		2049.2
			6.2		60.1

(2055.0)

5.4	2.0	5.0	9.0	14.4	21.0
2049.6	2055.0	2048.8	2048.8	2049.7	2046.1
		6.2	6.2	6.3	63.9

Continued on page 5

⑤ 3 continued from page 4.

Sta.	+	∧	-	Elev.	
D 856.0	11.6 +15.7 70.7	7.5 +7.5 62.5	5.2 +3.7 58.7	3.5 1.7 53.3	1.1 1.6 53.4

✓	16.0 +17.4 72.4	16.5 +20.1 75.1	30.5 +29.6 84.6	✓
---	-----------------------	-----------------------	-----------------------	---

✓

2055.0

T.P.

0.7

2054.3

D
854.0

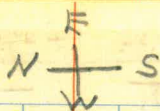
12.0
+16.7
71.7

O.K.

3.6
+3.5
58.5

-	15.2 +17.4 72.4	15.5 +19.5 74.5	19.0 +23.2 78.2	✓
---	-----------------------	-----------------------	-----------------------	---

✓



(C)
3

(2055.0)

0	3.6	6.0	14.5	21.0	
+3.2	+8.6	+19.3	+17.0	+14.7	✓
58.2	63.6	74.3	72.0	69.7	

(2055.0)

0	1.0	2.4	4.3	6.9	14.5	
+3.6	+5.6	+5.8	+11.0	+20.2	+17.0	✓
58.6	60.6	60.8	66.0	75.2	72.0	

Continued on page 7

⑦ ⁴ Continued from page 6

Sta. + π - Elev.

^D
847.5 + ^{6.5}
+ 20.1 75.1 = O.K. + ^{3.6}
+ 3.4 58.4

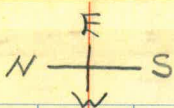
+ ^{9.5}
+ 20.8 75.8 + ^{18.5}
+ 27.3 82.3 ✓

^D
845.0 + ^{6.0}
+ 20.1 75.1 = O.K. + ^{3.7}
+ 4.8 59.8 + ^{0.6}
+ 4.7 59.7

+ ^{8.0}
+ 20.4 75.4 + ^{15.5}
+ 25.5 80.5 ✓

^D
842.6 + ^{4.5}
+ 20.0 75.0 = O.K. + ^{3.2}
+ 7.9 62.9

+ ^{8.0}
+ 20.3 75.3 + ^{15.0}
+ 25.4 80.4 ✓



(8)

(2055.0)

$\begin{matrix} 0 \\ +3.4 \\ \hline 58.4 \end{matrix}$	$\begin{matrix} 2.5 \\ +8.9 \\ \hline 63.9 \end{matrix}$	$\begin{matrix} 4.0 \\ +19.6 \\ \hline 74.6 \end{matrix}$	$\begin{matrix} 5.0 \\ +20.1 \\ \hline 75.1 \end{matrix}$	$\begin{matrix} 8.5 \\ +20.0 \\ \hline 75.0 \end{matrix}$	-
--	--	---	---	---	---

(2055.0)

$\begin{matrix} 0 \\ +5.7 \\ \hline 60.7 \end{matrix}$	o.k.	$\begin{matrix} 3.0 \\ +19.0 \\ \hline 74.0 \end{matrix}$	$\begin{matrix} 5.0 \\ +20.3 \\ \hline 75.3 \end{matrix}$	$\begin{matrix} 8.5 \\ +20.1 \\ \hline 75.1 \end{matrix}$
--	------	---	---	---

(2055.0)

$\begin{matrix} 0 \\ +7.6 \\ \hline 62.7 \end{matrix}$	o.k.	$\begin{matrix} 1.5 \\ +17.6 \\ \hline 72.6 \end{matrix}$	$\begin{matrix} 5.0 \\ +20.3 \\ \hline 75.3 \end{matrix}$	$\begin{matrix} 8.0 \\ +20.2 \\ \hline 75.2 \end{matrix}$
--	------	---	---	---

Continued on page 9

⑨ Continued from page 8

Sta. + π - Elev.

2054.97

^D
841.0 + $\frac{4.5}{75.0}$ + $\frac{3.0}{67.2}$

- $\frac{8.0}{75.5}$ $\frac{15.0}{80.4}$ ✓

^D
837.5 + $\frac{3.5}{74.9}$ + $\frac{2.0}{70.3}$

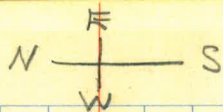
- $\frac{4.5}{75.5}$ $\frac{6.0}{75.6}$ $\frac{15.0}{80.7}$ ✓

^D
834.0 ✓ + $\frac{14.0}{80.9}$ + $\frac{5.0}{75.6}$

□

6.09 2048.88

2048.88



(10)

(2055.0)

0	2.5	5.0	8.0	
+12.6	+17.6	+20.5	+20.3	✓
67.6	72.6	75.5	75.3	

(2055.0)

0	1.8	4.0	7.0	
+15.5	+19.4	+21.1	+20.4	✓
70.5	74.4	76.1	75.4	

(2055.0)

0	6.0	12.5	
+20.4	+20.5	+18.3	✓
75.4	75.5	73.3	

6

800,00 + Exp.

1/2

6

PIER # 1
FINAL X-SECTIONS
3-31-53

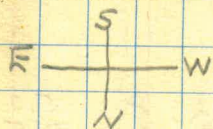
Plotted 5-4
99D

Sta.	+	∩	-	Elev.					
□	5.52	2054.4		2048.88					
L-990 ^o ✓	Dist. 10	6.6	6.5	5.5	4.3				
	Rad. 4.6	5.2	7.9	9.2	8.7				
	Elev. 2049.8	2049.2	2046.5	2045.2	2045.7				
L-993 ^o ✓		10.8	8.2	8.0	6.7				
		4.9	7.9	8.2	9.0				
		2049.5	49.5	46.2	45.4				
L-993 ⁵ ✓		11.3	9.4	8.7	6.6	5.7			
		4.9	5.3	8.3	8.9	10.8			
		49.5	49.1	46.1	45.5	43.6			
L-997 ⁵ ✓		12.4	11.3	9.8	8.0	6.7			
		4.3	4.4	8.1	8.5	11.1			
		50.1	50.0	46.3	45.9	43.3			
L-1002.2 ✓	10.0	10.0	8.9	7.9	7.3	6.3	4.8	2.9	2.7
	5.2	6.5	8.1	8.2	9.9	9.9	9.0	9.4	11.6
	49.2	47.9	46.3	46.2	45.5	45.4	45.0	42.8	
L-1004.3 ✓		9.6	8.7	7.7	5.2	3.6	2.7	2.7	
		6.0	7.3	7.4	9.0	8.6	8.9	9.9	
		48.4	47.1	47.0	45.4	45.8	45.5	44.5	
L-1005.8 ✓		9.7	9.3	6.1	4.4	3.0	3.0		
		5.0	7.5	9.1	8.5	8.6	9.2		
		49.4	46.9	45.3	45.9	45.8	45.2		
L-1013.4 ✓				10.0	8.2	4.7			
				5.5	7.5	8.2			
				48.9	46.9	46.2			

30-March 1953

D-8830 = ~~R~~ Baseline
 Soyster -
 Locker -
 Halstead -
 Wells -

(2)
7



Sections are run
 East & West from Q

0	6
8.9	9.0
2045.5	2045.4

0	4.4	10.0
9.0	9.2	9.0
45.4	45.2	45.4

0	4.3	4.5	8.0	10.6
10.6	11.0	9.2	11.0	9.0
43.8	43.4	45.4	45.4	43.8
		43.4	43.8	

NOTE:
 ADDITIONAL
 MATERIAL EXCHG
 DONE HERE
 AFTER ORIGINAL
 NOTES
 WRS

0	2.9	3.8	6.7	7.0	12.0
11.4	11.4	9.4	11.0	9.4	10.4
43.0	43.0	45.0	45.3	46.4	46.4
		43.4	43.3	44.0	44.8

0	0.7	2.0	2.8	4.2	4.8	5.3	5.9	7.6
11.9	12.0	11.0	9.8	11.0	10.4	10.8	10.2	10.6
42.5	42.4	43.4	44.6	44.8	45.4	46.3	46.4	46.4
			43.4	44.0	43.6	44.2	43.8	44.4

0	1.2	2.5	5.0	5.4	8.5
12.4	10.0	8.9	8.7	7.0	7.7
42.0	44.4	45.5	45.7	45.5	45.6

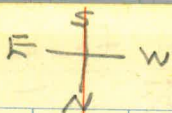
0	0.3	0.9	4.2	8.5
9.8	9.8	8.6	8.7	7.7
44.6	44.6	45.8	45.7	46.7

0	1.0	4.4	6.4	7.8	9.7
8.5	7.5	5.7	8.1	6.6	6.7
45.9	46.9	48.7	46.3	47.8	47.7

Continued on page 3

③ Continued from page 2

Sta.	+	∩	-	Elev.			
		2054.40					
L-1015.8 ✓			9.2 3.9 50.5	8.1 6.3 48.1	5.0 7.5 46.9	2.0 7.7 46.7	
□	6.09	2054.97	5.52	2048.88			
L-1019.3 ✓			10.0 6.1 48.9	9.2 6.1 48.9	8.5 7.8 47.2		
L-1023.0 ✓	10.9 4.1 50.9	10.9 5.3 49.7	10.0 8.9 46.1	7.6 9.5 45.5	5.0 8.5 46.5	3.8 9.3 45.7	
L-1024.3 ✓			12.8 5.4 49.6	9.4 9.2 45.8	7.2 9.6 45.4	5.3 8.8 46.2	4.7 9.3 45.7
L-1026.0 ✓			12.2 5.3 49.7	10.7 6.8 48.2	5.2 9.2 45.8	2.2 8.8 46.2	1.0 9.7 45.3
L-1030.5 ✓				12.8 5.8 49.2	8.8 7.1 47.9	4.5 8.9 46.1	
L-1035.5 ✓			13.0 2.2 52.8	6.5 7.2 47.8	3.9 7.7 47.3	2.7 7.5 47.5	



(4)
8

0	1.0	2.0	8.0
7.0	7.0	5.9	7.1
7047.4	47.4	48.5	47.3

0	1.0	4.6	7.4	8.6
7.8	6.9	7.1	7.8	5.2
7047.2	48.1	47.9	47.2	49.8

0	1.7	4.0	9.2
8.0	8.1	5.0	5.9
47.0	46.9	49.2	49.1

0	1.0	1.6	3.7	9.2
9.2	9.2	7.4	6.1	6.1
45.8	45.8	47.6	48.9	48.9

0	3.4	3.7	9.0
9.5	9.2	6.3	6.9
45.5	45.8	48.7	48.1

0	1.8	3.3	8.9
9.3	9.3	8.9	9.3
45.7	45.8	46.1	45.7

0	1.0	1.7	5.0	9.0
8.3	7.9	7.0	6.5	5.5
46.7	47.1	48.0	48.5	49.5

Continued on page 5

⑤ Continued from Page 4

Sta.	+	∩	-	Elev		
		2054.97				
L-1039° ✓			10.0 4.3 50.7	7.8 6.9 48.1	2.7 2.8 48.2	
L-1043° ✓			9.1 0.1 54.9	7.6 4.0 51.0	6.6 5.7 49.3	3.3 6.2 48.8
L-1044° ✓				8.1 1.5 53.5	4.7 4.5 50.5	3.7 6.1 48.9
L-1045° ✓			8.0 1.5 53.5	5.3 4.0 51.0	3.5 4.8 50.2	
L-1048 ⁵ ✓			8.6 0.7 54.3	5.9 1.9 53.1	1.7 2.6 52.4	
L-1050° ✓				+ 8.7 0.2 55.2	6.0 1.4 53.6	
□		6.09	2048.88	2048.88		

S
E — W
N

①
9

0	1.9	2.7	8.9
7.8	7.6	5.9	4.9
47.2	47.4	49.1	50.1

0	1.8	3.5	9.0
6.6	6.7	4.9	4.0
48.4	48.3	50.1	51.0

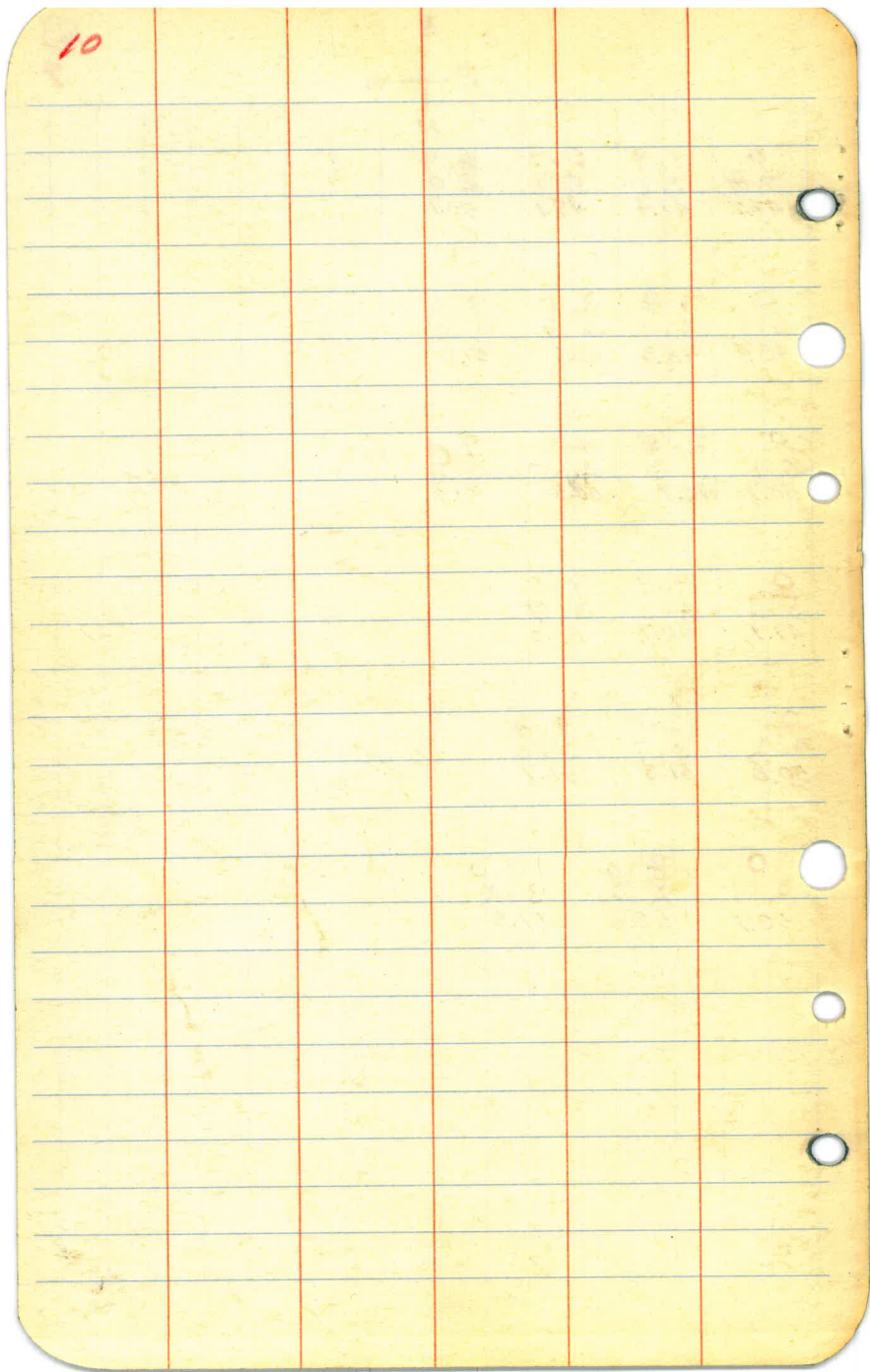
0	2.5	4.0	9.4
6.1	6.3	4.5	3.8
48.9	48.7	50.5	51.2

0	4.9	9.6
5.1	4.3	3.7
49.9	50.7	51.3

0	6.0	9.8
4.2	3.7	3.2
50.8	51.3	51.7

0	8.0	10.0
2.1	2.2	3.2
52.9	52.8	51.8

10



FINAL
X-SECTIONS
BUTTRESS #1
4-1-53

+2014 133.7 cys

Plotted 5-11-53
J.G.B.



Sta.	+	∧	-	Elev.	
□	4.9	2049.3		2044.4	
T.P.	4.0	2048.8	4.5	2044.8	
987°	Dist. 3.0 Rod 3.9 Elev. 44.9	24.0 3.1 45.7	13.0 2.4 46.4	8.0 3.0 45.8	7.0 4.5 44.3
	35.0 2.1 46.7	37.0 3.7 45.1	28.0 3.8 45.0		

X-Sections on # 1 Buttress (2)

1-April 1953

S
E — W
N

Sagster
Locker
Halstead
Wells

Sections run East & West
0 = # 1 Buttress

(2048.8)

0	3.0	6.0	10.0
5.0	3.7	2.6	2.0
43.8	45.1	46.2	46.8

Continued on page 3 ✓

③ ¹² Continued from page 2

Sta.	+	π (2048.8)	-	Elev.	
988.0	17.0 2.2 46.6	16.0 2.9 45.9	9.0 2.8 46.0	7.0 6.1 42.7	7.5 +8.5 27.5

	25.0 3.1 45.7	32.0 4.0 44.8	35.0 2.0 46.8	37.0 3.2 45.6	38.0 4.3 45.5
--	---------------------	---------------------	---------------------	---------------------	---------------------

2024.0 2024.0

989.0	7.9 0.0 24.0	7.7 1.6 22.4	7.1 2.8 21.2	5.6 3.2 20.8	2.5 3.4 20.2
-------	--------------------	--------------------	--------------------	--------------------	--------------------

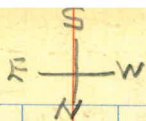
(2048.8)

	7.0 8.9 39.9	8.0 7.7 41.1	10.5 3.3 45.5	15.5 2.8 46.0	24.5 2.2 46.6	32.0 2.2 45.6
--	--------------------	--------------------	---------------------	---------------------	---------------------	---------------------

38.0
4.3
45.5

(2024.0)

0	2.5
+3.5	+10.5
27.5	34.5



(2048.8)

④

12

4.5	7.0	12.0
44.8	2.7	2.0
	46.1	46.8

(2024.0)

0	1.8	3.0
2.7	1.7	+3.5
21.3	22.3	27.5

(2048.8)

5.0	9.0	15.0
3.5	2.3	2.5
45.3	46.5	46.3

⑤ 13

Star	+	△	-	Elev.	
994 =	9.5	7.5	7.0	5.3	6.0
	2.0	2.9	2.9	2.9	4.4
	22.0	21.1	21.1	21.1	19.6

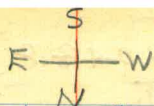
(2048.8)					
	9.5	10.0	15.0	20.0	26.5
-	0.0	12.2	17.0	8.4	2.2
20	24.0	36.6	37.8	40.4	46.6

38.0	35.5	33.5	32.5	31.0	28.5
1.5	1.9	3.3	3.3	1.9	1.3
- 47.3	46.9	45.5	45.5	46.9	47.5

(2048.8)					
996 =	11.5	10.1	10.0	10.0	7.8
	12.9	15.0	0.0	2.7	3.2
	35.9	33.8	24.0	21.3	20.8

19.0	28.0	31.0	33.0	34.0	38.0
9.8	1.3	0.7	2.8	2.9	1.3
39.0	47.5	48.1	46.0	45.9	47.5

(2024.0)



(6)

13

0	3.5	3.0	3.5	6.4
3.3	2.1	0.0	+5.0	+9.0
20.7	21.9	24.0	29.0	33.0

24.0	18.5	10.0	8.0	7.0
2.2	2.0	7.0	12.8	15.3
46.6	46.8	41.8	36.0	33.5

(2048.8)

(2024.0)

0	6.1	6.1
3.9	2.0	0.0
20.1	22.0	24.0

(2048.8)

6.5	9.0	9.5
14.5	11.8	8.7
34.3	37.0	40.1

25.0	20.0	15.0
2.2	3.2	6.7
46.6	45.6	42.1



⑦ 14
 Sta. + (2048.8)
 1001 = 10.1 9.9 8.4
 17.0 0.0 7.0
 31.8 24.0 17.0

(2048.8)
 12.0 21.0
 14.2 9.1
 34.6 39.7

(2048.8)
 38.0 35.0 32.5 29.0
 1.7 2.2 0.4 0.7
 2047.1 46.6 48.4 48.1

(2048.8)
 Sta. +
 1002 = 21.6 17.5 11.0 10.2 10.0 9.1
 9.2 10.8 17.1 17.5 0.0 7.1
 39.6 38.0 31.7 31.3 24.0 16.9

29.5 33.0 36.0 38.0
 0.3 0.6 2.1 1.1
 48.5 48.2 46.7 47.7

2048.8
 0.5 2049.3 0.0 2048.8

(2024.0)

E — W

N

(8)

0	1.3	1.7	2.8	5.5	5.5
5.1	4.9	4.0	3.4	2.5	0.0
18.9	19.1	20.0	20.6	21.5	24.0

14

(2048.8)

28.0	21.0	17.5	12.5	7.5
1.9	4.6	6.9	8.4	12.0
46.9	44.2	41.9	40.4	36.8

(2024.0)

(2048.8)

0	2.0	2.7	3.0	4.7	7.0
5.2	4.8	4.0	1.9	1.7	17.0
18.8	19.2	20.0	22.1	22.3	31.8

30.0	24.0	16.5	9.0
2.4	5.2	8.2	11.9
46.4	43.6	40.6	36.9

✓

⑨ 15

(2049.3)

Sta.	+	△	-	Elev.	
L	12.5	12.5	10.3	10.1	9.9
1004°	15.0	17.0	17.3	0.0	7.3
	34.3	32.3	32.0	24.0	16.7

21.0	30.0	34.5	36.5	38.0
10.0	0.4	0.8	0.9	1.3
39.3	48.9	48.5	48.4	48.0

2024.0

T.P. 0.7 2020.0 4.7 2019.3

10085	(2049.3)			
	10.8		10.5	9.0
	17.6		+ 4.0	2.6
	31.7		24.0	17.4

13.3	15.3	19.5	28.5	38.0
17.6	15.3	12.0	1.1	0.5
31.7	34.0	37.3	48.2	48.8

(2024.0)

E S W

(2048.8)

(10)

0
5.1
18.9

2.7
4.7
19.3

3.3
0.0
24.0

N

5.0
17.5
31.3

6.9
16.5
32.3

29.0
3.4
45.4

23.0
6.2
42.6

16.0
8.4
40.4

8.5
11.6
37.2

(2020.0)

(2048.8)

0
0.7
19.3

2.7
1.1
18.9

3.0
+0.4
20.4

3.6
+4.0
24.0

6.0
16.0
32.8

10.0
11.9
36.9

30.0
6.8
42.0

25.0
7.0
41.8

15.5
9.6
39.2

✓

⑩¹⁶ (2049.3)

Sta.	+	11.0	9.0	2.5	0.9
10093	11.2	+4.0	2.6	1.3	2.7
	17.7	24.0	17.4	18.7	17.3
	31.6				

	13.3	15.3	19.5	28.5	38.0
	17.6	15.3	12.0	1.1	0.5
✓	31.7	34.0	37.3	48.2	48.8

✓ 4.6 2041.0 • 2036.4

1017_e

	10.9	9.7	8.6	5.7	4.3
	+4.0	3.6	3.7	3.6	4.5
	24.0	16.4	16.3	16.4	15.5

(2049.3)

11.3	19.2	24.5	32.5	38.0
21.3	13.7	8.1	6.3	4.5
28.0	35.6	41.2	43.0	44.8

(2020.0)

0
2.7
17.3

2.2
2.2
17.8

2.8
+4.0
24.0

E W



5.5
16.0
32.8

(2048.8) 16

10.0
12.8
36.0

30.0
7.1
41.7

25.0
7.6
41.2

15.0
10.0
38.8

(2020.0)

0
3.6
16.4

3.2
3.7
16.3

5.1
+4.0
24.0



7.5
10.0
31.0

(2041.0)

16.5
4.8
36.2

24.0
2.8
38.2

30.0
0.6
40.4

✓

⑬¹⁷ (2049.3)

Sta	+	↑	-	Elev.	
L 1018	11.3 21.3	11.0 +4.0	9.3 5.4	7.4 5.3	5.6 5.1
	28.0	24.0	14.6	14.7	14.9

19.3	24.5	32.5	38.0
13.7	8.1	6.3	4.5
35.6	41.2	43.0	44.8

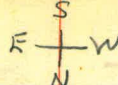
L 1024	13.9	13.9	11.1	9.7	9.1
	+4.0	+2.8	+1.5	0.8	6.0
	24.0	22.8	21.5	19.2	14.0

(2049.3)

12.3	13.7	17.5	26.0	31.0
24.8	20.2	16.0	10.9	7.2
27.5	29.1	34.3	38.4	42.1

38.0	37.0
6.0	5.2
43.3	44.1

(2020.0)



0	2.4
3.7	3.6
16.3	16.4

3.3	+0.2
20.2	

4.3	+4.0
24.0	

(2041.0) 17

7.5	16.5
10.0	4.8
31.0	36.2

30.0	24.0
0.6	2.8
40.4	38.2

(2020.0)

0	2.8
4.1	3.9
15.9	16.1

3.0	+1.1
21.1	

6.3	+4.0
24.0	

(2041.0)

9.0	17.0
12.4	6.7
28.6	34.3

20.0	27.0
0.7	4.5
37.7	36.5

27.0	23.0
4.5	4.0
36.5	36.4

23.0	
4.0	
36.4	



(15)

Sta	+	↑	-	Flev	
1025	13.4	13.4	11.1	9.4	8.0
	+4.0	+2.7	+0.6	4.3	6.4
	24.0	22.7	20.6	15.7	13.6
					4.6
					6.0
					14.0

(2049.3)

12.5	18.0
27.5	18.5
27.8	30.8

38.0	27.0	23.0
10.5	12.5	14.7
38.8	36.8	34.6

(2049.3)

1030	14.8	14.3	12.8	11.1	8.4
	+2.6	+4.0	0.0	5.3	7.3
	26.7	24.0	20.0	14.7	12.7

15.5	17.0	20.0	21.5	31.5
22.3	18.5	19.0	16.0	10.6
27.0	30.8	30.3	33.3	38.7

38.0
11.4

(2020.0)

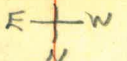
0
5.4
14.6

1.9
3.9
16.1

3.1
4.7
16.3

3.1
+ 0.6
20.6

6.5
+ 4.0
24.0



(2041.0)

9.0
12.9
28.1

18 (16)

30.0
4.4
36.6

22.0
5.4
35.6

15.0
7.0
34.0

(2020.0)

0
6.4
13.6

2.8
5.4
14.6

2.6
3.4
16.6

4.5
2.7
17.3

4.5
0.5
19.5

10.0
+ 4.0
24.0

(2041.0)

30.0
6.8
34.2

26.0
8.1
32.9

21.5
6.9
34.1

18.5
7.6
33.4

10.5
13.2
27.8



①719

Sta.	+	↑	-	Elev.
10345	12.5 + 4.0 24.0	12.0 0.0 20.0	10.6 5.3 14.7	6.3 7.0 13.0 13.8

(2049.3)

12.8	13.5	15.5	17.7	27.0
25.0	20.5	19.0	18.8	11.6
24.3	28.8	33.8	30.5	37.7

38.0	35.0
6.8	6.8
42.5	42.5

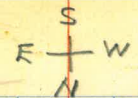
T.P.	0.0	2020.0	2016.0	4.0	2016.0
------	-----	--------	--------	-----	--------

10390	(2049.3) 11.0 24.7 24.6	+ 11.1 8.0 24.0	9.6 2.1 13.9	7.5 2.6 13.4
-------	----------------------------------	-----------------------	--------------------	--------------------

38.0	0.7
48.6	

-	0.0	2036.4	2036.4
---	-----	--------	--------

(2020.0)



0	3.7	4.0	4.5	7.0	15.0
7.1	6.5	3.0	2.1	0.0	+4.0
12.9	13.5	17.0	17.9	20.0	24.0

(2041.0)

30.0	24.0	16.5
8.2	10.9	70.2
32.8	30.1	30.8

(2016.0)

0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
11.0	12.5	13.1	15.4	16.4	17.8	24.0			

(2036.4)

30.0	25.0	20.5
8.0	10.6	11.4
28.4	25.8	25.0



19
20

Sta.	+	+	-	Elev.		
10445	11.5 +8.0	8.2 +2.3	6.4 1.9	4.1 2.0	3.0 4.6	
	2024.0	2018.3	2014.1	2014.0	2011.4	

(2049.3)

14.8	34.0	38.0
23.5	2.0	0.8
2025.8	2046.7	2048.5

(2049.3)

10520	8.3 -26.0	8.1 +2.8	4.6 0.8	2.4 4.7	1.0 5.3	
	2023.3	2022.8	2015.2	2011.3	2010.7	

17.0	28.5	31.0	38.0
2010	8.1	2.5	2.0
2029.3	2041.2	2046.8	2047.3

(2016.0) E W

20 (20)

0	3.9	6.2	6.6	18.6	18.6
4.6	4.7	1.5	0.5	+5.4	+8.0
2011.4	2011.3	2014.5	2015.5	2021.4	2024.0

(2036.4)

30.0	26.0
11.0	12.5
2025.4	2023.9

(2016.0)

0	8.3	16.5	19.3	20.5	23.5
7.0	4.7	+0.6	+3.2	+6.2	+7.4
2009.0	2011.3	2016.6	2019.2	2022.2	2023.4

(2036.4)

30.0	} + 25.5
12.3	
2024.1	2025.9



21

(FIBER)

0.02	0.05	0.1
2.5	5	10

(FIBER)

0.02	0.05	0.1
2.5	5	10

~~X-Sections of # 1-2 Arch Ring~~
~~Friday 3-March 1953~~

X-Sections of # 1 Buttress
Friday 3- APRIL 1953



²² X-Section # 1 - Buttress

Sta	+	-	Elev.
1052	0.0	2013.6	2013.6
	Dist.		7.0
	Red.		+6.4
	Elev.		20.0
			1.5
			3.1
			10.5

1056	38.0	28.0	(2049.3)
	1.5	1.0	14.7
			20.5
	47.8	48.3	27.3
			28.8
			22.0

Fri. 3 - March 1953

APRIL

F S
N W

Joyster
Locker
Halstead
Wells

22

(2013.6)

0 = R

Buttress = D-1060

0	3.8	7.0	7.9	12.8	16.1
7.1	11.3	9.5	5.5	3.9	+0.6
06.5	02.3	04.1	08.1	10.6	14.2

28.5	20.5	17.5
+10.5	+7.0	+1.5
24.1	20.6	15.1

(2013.6)

0	2.0	5.0	8.0	10.5	16.0
3.0	11.5	12.4	12.7	5.2	0.0
10.6	02.1	01.2	2000.9	08.4	13.6

29.0	21.0	18.7
+10.3	+7.0	+1.6
23.9	20.6	15.2

③ 23

Sta.

+

π

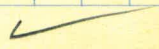
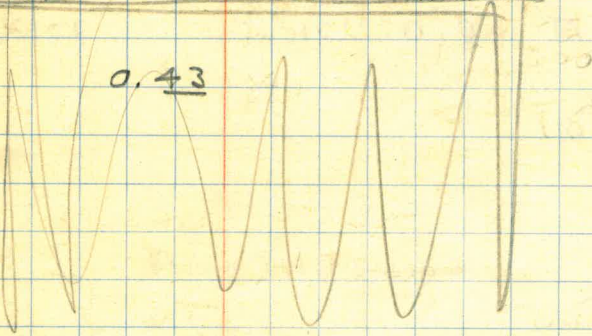
-

Elev.

Fill Cut
Begin @ # 7 of work Fast

0.43

- 1.74
- 5.04
- 3.88
- 12.75
- 12.19
- 15.07
- 13.94
- 14.91



③²⁴ X-Sections # 1. Buttress

Sta + ∇ - Elev

□ 0.0 2018.5 2018.5

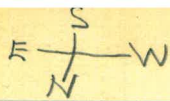
1061

5

10.3
2018.8

1065

1068



Fri. 17-April 53
 0 = ~~E~~ Buttress

Locker ~~24~~
 Ingersoll
 Murphy

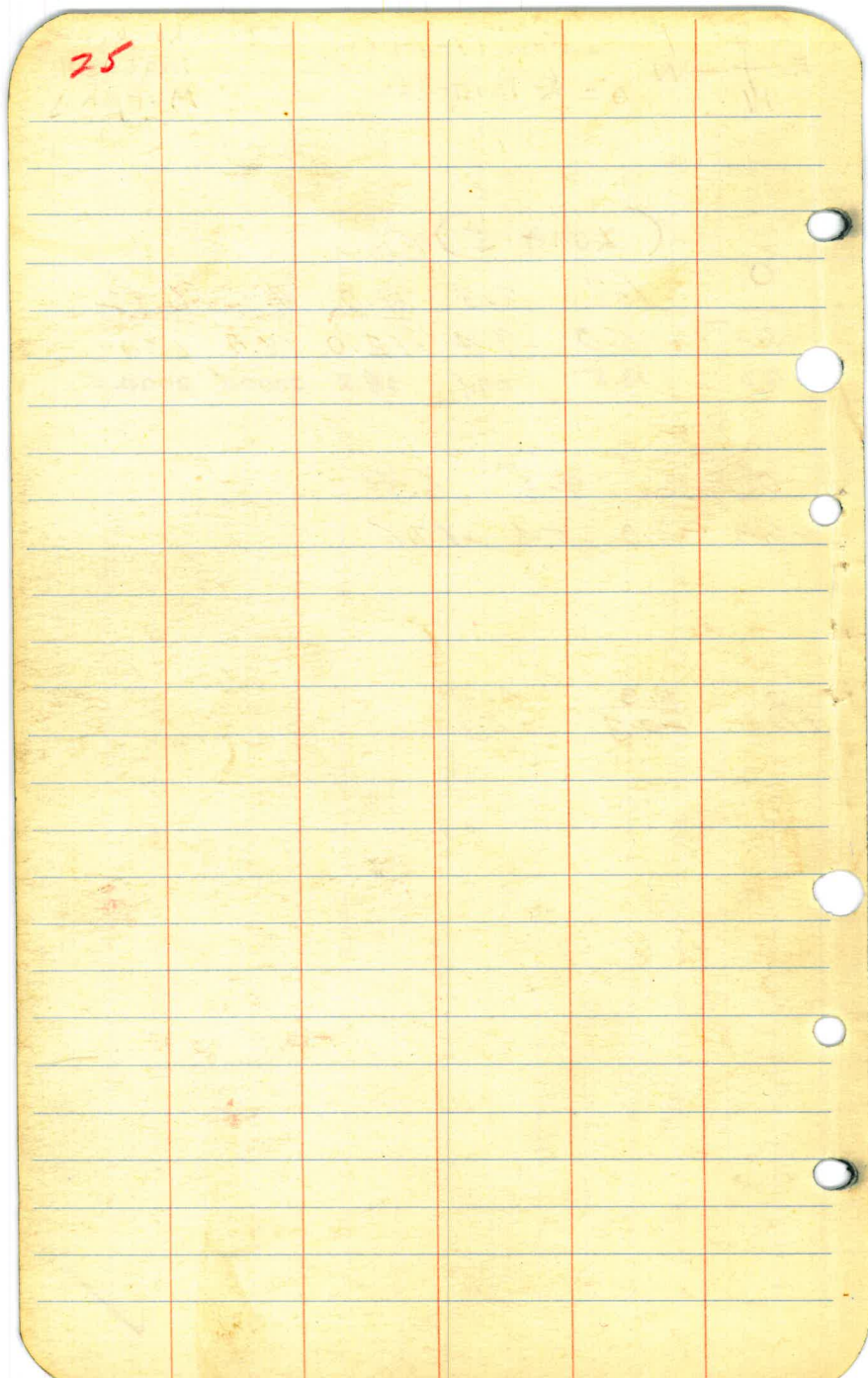
(2018.5) Elev.

0	1.7	3.3	<u>4.0</u>	<u>4.5</u>	<u>6.42</u>
<u>-3.5</u>	<u>-5.0</u>	<u>-9.4</u>	<u>-12.0</u>	<u>18.0</u>	<u>18.0</u>
15.0	13.5	09.1	06.5	2000.5	2000.5

0	2	<u>4.5</u>	6.4
<u>-0.8</u>	<u>-2.0</u>	<u>-5.4</u>	<u>-17.5</u>

0	<u>3.3</u>	6.4
<u>71.6</u>	<u>70.3</u>	<u>-5.1</u>





X-Sections o/n #1-2 Ring
Friday 3. ~~MARCH~~ 1953
APRIL

FINALS

SOYSTER
DALLAS
HALSTED
WELLS

Plotted 4-20
JJB.

26 ⑤ X-Sections # 1-2 Arch Ring

Sta. + - Elev.

□ 0.0 2013.6 2013.6

D 1066 43	Dist. Radi. Elev.	}} 8.3 0.0	6.3 12.0	1.5 13.4

(2047.8)
30.5 50.0
3.0 4.2
2042.8 2043.6

□ 2.1 2051.0 2048.88

T.P. 2.2 2047.8 5.4 2045.6

D 1070 @	(2047.8)	}} 12.8 0.0	10.8 10.0	7.0 13.0	1.5 12.9

(2047.8)
34.0 50.0
4.5 4.3
2043.3 2043.5

D 1074 @	}} 16.7 0.0	13.7 13.4	(Bulk Hd) 13.7 13.2	6.0 13.1	0.5 8.6

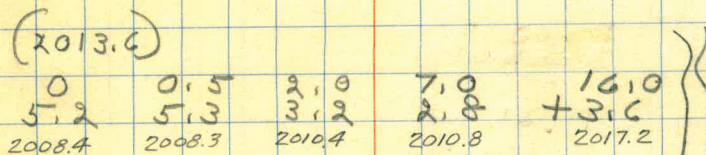
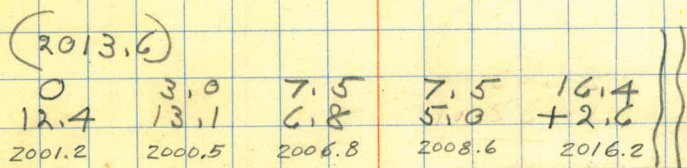
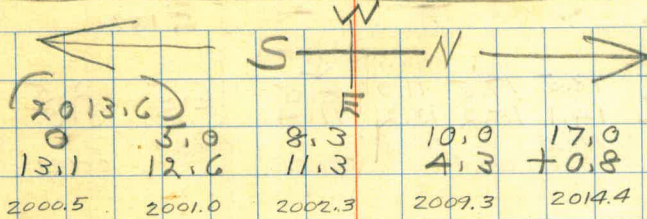
(2047.8)
39.0 50.0
4.2 4.2
2043.6 2043.6

Note: T.B. on * Buttress = +2043.3
24.5 South of Baseline

$$2 - 1060.85 = \text{Base line} = 0.0$$

⑥

26



Continued on page 7

⑦ 27

Sta.	+	2013.6	-	Elev.
			BKHd	
D	18.5	17.5	11.0	
1078.5	14.1	15.2	13.2	
	1999.5	2000.4		
	1998.4		2002.2	2008.3
				2010.1

21.1 // (2047.8)

21.5	37.5	45.5	50.0
0.0	8.1	4.8	5.0
2013.6	2039.7	2043.0	2042.8

Continued from page 6

Ⓢ

(2013.6)

← S $\frac{N}{E}$ N →

27

√

0
0.4
2009.6
2013.2

+6.0
+1.6
2015.2

+6.0
+6.5
2020.1

}}}}

⑨ 28

Sta.

+

∩

-

Elev.

FINALS

280

X-Section #4 Buttress
Tue. 7-April 1953

L947 — L1045

Plotted
4-15-53
99B.

① ²⁹X-Section # 4 Buttress

Sta. + - Elev.

□ 0.3 1961.3 1961.0

□ 4.8 1990.6 1985.8

947

□ 3.33 1992.81 1989.48

950

4.5 2.5
5.5 6.3
1985.1 1984.3

(1990.6)

L-965

10.0 7.5
5.0 8.0
1985.6 1982.6

3.5 3.5
0.0 2.0
1961.3 1959.3

(1992.8)

L-965

10 7.5
7.2 10.2
1985.6 1982.6

3.6 3.6
0.0 5.5
1961.3 1955.8

(1992.8)

L-968

12 10
9.0 11.2
1983.8 1981.6

4.0 4.0 1.3
0.0 6.3 7.7
1961.3 1955.0 1953.6

Dallas -
 Ben
 Frank
 Debbs
 \$ Butress = 0



29 (2)

Toe @ 970' @ +1989

Top Bank = Zero Section

(1990.6)

0	2.5	5.5
8.0	8.0	4.0
1982.6	1982.6	1985.8

(1961.3)

0	3.6	3.6
2.3	2.3	0.0
1959.0	1959.0	1961.3

(1990.6)

6.0	7.0	11.0
10.0	7.8	5.0
1980.6	1982.8	1985.6

(1961.3)

0	3.6	3.6
5.9	6.5	0.0
1955.4	1954.8	1961.3

(1992.8)

6	7	11
12.2	10.0	7.2
1980.6	1982.8	1985.6

(1961.3)

0	2.2	4.5	5.0	3.5
7.7	7.6	7.1	0.0	+4.0
1953.6	1953.7	1954.2	1960.7	1965.3

(1992.8)

0	9.5	15
14.0	9.0	6.3
1988.8	1983.8	1984.4

✓

Sta	+	↑	-	Elev.
		1992.8 1961.30		
③ 30				
	(1990.6)			
✓ 970	12.0 2.8 1983.8	10.0 9.0 1980.6 1981.6	4.4 0.0 1961.3	4.4 6.7 1954.6 3.1 7.6 1953.7
	(1992.8)			
✓ 972	12 9.0 1983.8	10 11.2 1981.6	4.4 0.0 1961.3	4.4 6.8 1954.5 3.1 7.9 1953.4
	(1992.8)			
✓ 978	13 6.0 1986.8	8 9.2 1983.6	5.4 0.0 1961.3	4.4 11.0 1950.3
	(1990.6)			
✓ 980	13.0 3.8 1986.8	8.0 7.0 1983.6	5.7 0.0 1961.3	4.1 11.0 1950.3
	(1992.8)			
✓ 9835	13 6.0 1986.8	8 9.2 1983.6	5.8 0.0 1961.3	4.8 7.9 1953.4 4.0 9.9 1951.4
	(1992.8)			
✓ 9845	13 6.0 1986.8	8 9.2 1983.6	5.4 0.0 1961.3	4.7 8.6 1952.7

S
E — W
N

(4) 30

(1961.3)

0	3.9	3.5	3.1
7.5	7.4	2.7	+4.0
1953.8	1953.9	1958.6	1965.3

(1990.6)

6.0	9.5	15
11.8	6.8	4.1
1978.8	1983.8	1986.5

(1961.3)

0	4.0	4.7	3.5
2.3	8.2	2.8	+0.8
1953.0	1953.1	1958.5	1962.1

(1992.8)

6	9.5	15
14.0	9.0	6.3
1988.8	1983.8	1986.5

(1961.3)

0	3.5	3.5
11.3	11.2	0.0
1950.0	1950.1	1961.3

(1992.8)

7	10	14
12.2	7.9	6.0
1980.6	1987.9	1986.8

(1961.3)

0	3.9	5.7	6.7
11.4	11.7	4.3	0.0
1949.9	1949.6	1957.0	1961.3

(1990.6)

7.0	10.0	14
10.6	5.7	3.8
1980.0	1984.9	1986.8

(1961.3)

0	3.5	4.0
10.4	10.6	0.0
1950.9	1950.7	1961.3

(1992.8)

7.5	12.5	15
11.2	6.4	5.9
1981.6	1986.4	1986.9

(1961.3)

0	3.5	4.5
9.0	9.0	0.0
1952.3	1952.3	1961.3

(1992.8)

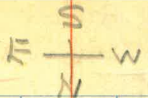
7.5	12.5	15
11.2	6.4	5.9
1980.6	1986.4	1986.9

✓

⑤ 31

1992.8
1961.30

Sta	+	↑	-	Elev
	(1990.6)			
1990	12.0 3.5 1987.1	10.0 6.5 1984.1	6.5 0.9 1960.4	5.6 1.7 1959.6
				5.2 7.8 1953.5
	(1992.8)			
1992.5	12 5.7 1987.1	10 8.7 1984.1	6.3 0.0 1961.3	5.3 4.7 1956.6
				5.1 7.8 1953.5
	(1992.8)			
1994.5	12 5.5 1987.3	10 7.7 1985.1		7.9 0.0 1961.3
				7.9 4.8 1956.5
	(1990.6)			
1995.5	12.0 3.3 1987.3	10.0 5.5 1985.1		8.4 0.0 1961.3
				7.9 4.8 1956.5
	(1990.6)			
1000	12.0 3.2 1987.4	10.0 5.5 1985.1		8.1 0.0 1961.3
				8.0 4.6 1956.7
	(1990.6)			
1000.47	12.0 3.2 1987.4	10.0 5.5 1985.1		8.2 0.0 1961.3
				7.9 4.7 1956.6



31 (6)

(1990.6)

(1961.3)

0	2.7	5.4	5.4	9.0	15.0
8.4	2.7	2.7	0.0	6.8	3.5
1952.9	1952.6	1959.0	1961.3	1983.8	1987.1

(1961.3)

0	3.0	3.8	4.8	6.5	6.5	9.5	15
8.4	2.9	6.9	6.4	2.7	0.0	8.8	5.8
1952.9	1952.4	1954.4	1954.9	1958.6	1961.3	1984.0	1987.0

(1992.8)

(1961.3)

0	6.7	7.8	8.3	10	15
5.1	5.5	2.1	0.0	8.6	5.6
1956.2	1955.8	1959.2	1961.3	1984.2	1987.2

(1992.8)

(1961.3)

0	6.0	8.4	8.4	9.5	15.0
5.1	5.6	5.1	0.0	6.6	3.3
1956.2	1955.7	1956.2	1961.3	1984.0	1987.3

(1990.6)

1961.3

0	5.6	5.6	8.8	9.3	10.0	15.0
5.2	5.2	4.6	4.4	0.0	6.1	3.2
1956.1	1956.1	1956.7	1956.9	1961.3	1984.5	1987.4

(1990.6)

1961.3

0	5.7	7.7	8.3	10.0	15.0
5.2	5.2	3.3	0.0	6.1	3.2
1956.1	1956.1	1958.0	1961.3	1984.5	1987.4

(1990.6)



⑦ 32

1992.8

Sta + \wedge - Elev.

(1990.6)

1010	10.0	6.0	3.9	3.5
	3.0	8.2		
	1987.6 \checkmark	1982.4 \checkmark	1961.3 \checkmark	1957.0

(1992.8)

1011	10	6	3.9	3.5
	5.2	10.4		
	1987.6	1982.4	1961.3	1957.0

□ 0.1 1967.1 1967.0

(1992.8)

10135	10	6	6.2	6.1	4.3	3.7	1.8
	5.2	10.4	0.0	2.6	3.4	5.2	6.4
	1987.6	1982.4	1967.1	1964.5	1963.7	1961.9	1960.7

(1990.6)

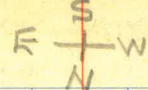
1020	11.0	9.0	5.5	4.9	4.5	1.1
	2.5	8.0	0.0	0.3	5.3	6.6
	1988.1	1982.6 \checkmark	1967.1 \checkmark	1966.8 \checkmark	1961.8 \checkmark	1960.5 \checkmark

(1992.8)

1024	11	9	4.7	4.2
	4.7	10.2		
	1988.1	1982.6	1967.1	1961.2

(1990.6)

1030	11.0	9.0	4.7	4.7
	1.1	6.0		
	1989.5 \checkmark	1984.6 \checkmark	1967.1 \checkmark	1961.9 \checkmark



⑧ 32

(1961.3)				(1990.6)	
0	4.3	4.5	4.5	9.5	15.0
57.0	1956.5	1961.3	1986.0	1987.6	

(1961.3)			(1992.8)	
0	4.3	4.5	9.5	15
1957.0	1956.5	1961.3	1986.0	1987.6

(1967.1)						(1992.8)		
0	2.5	3.5	3.5	4.3	4.6	5	11.5	15
6.2	7.2	5.5	4.0	3.7	0.0	1981.1	1987.3	1987.9
1960.9	1959.9	1961.6	1963.1	1963.4	1967.1			

(1967.1)			(1992.8)			
0	4.0	4.2	6.5	11.0	12.0	15.0
6.2	4.2	0.0	5.8	5.2	2.5	2.5
1960.9	1962.9	1967.1	1984.8	1985.4	1988.1	1988.1

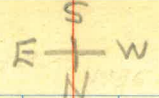
(1967.1)				(1992.8)		
0	4.1	5.2	3.5	6.3	12	15
5.4	5.0	2.3	0.0	8.3	4.7	4.6
1961.7	1962.1	1964.8	1967.0	1984.5	1988.1	1988.2

(1967.1)				(1990.6)		
0	3.6	4.8	5.0	5.5	11.0	15.0
5.5	5.4	3.5	0.0	5.9	1.1	1.1
1961.6	1961.7	1963.6	1967.1	1984.7	1989.5	1989.5

✓

⑨ 33

Sta.	+	1967.1	-	Flev.	
		(1990.6)			
✓ 1040	11.0 1.8 1988.8	8.0 10.0 1980.6		4.6 0.0 1967.1	3.5 4.6 1962.5
		(1990.6)			
✓ 1045	15.0 1.6 1989.0	10.0 10.0 1980.6		6.2 0.0 1967.1	5.1 3.0 1964.1
					3.8 5.0 1962.1



(1967.1)			(1990.6)			
0	4.2	4.4	8.0	11.5	15.0	
4.7	4.7	0.0	4.3	2.1	1.8	
1962.4	1962.4	1967.1	1986.3	1988.5	1988.8	

(1967.1)			(1990.6)	
0	4.1	4.1	10.5	15.0
5.5	5.2	0.0	1.9	1.6
1961.6	1961.9	1967.1	1988.7	1989.0



34

2001	2001	2001	2001	2001	2001
2002	2002	2002	2002	2002	2002
2003	2003	2003	2003	2003	2003
2004	2004	2004	2004	2004	2004
2005	2005	2005	2005	2005	2005
2006	2006	2006	2006	2006	2006
2007	2007	2007	2007	2007	2007
2008	2008	2008	2008	2008	2008
2009	2009	2009	2009	2009	2009
2010	2010	2010	2010	2010	2010
2011	2011	2011	2011	2011	2011
2012	2012	2012	2012	2012	2012
2013	2013	2013	2013	2013	2013
2014	2014	2014	2014	2014	2014
2015	2015	2015	2015	2015	2015
2016	2016	2016	2016	2016	2016
2017	2017	2017	2017	2017	2017
2018	2018	2018	2018	2018	2018
2019	2019	2019	2019	2019	2019
2020	2020	2020	2020	2020	2020
2021	2021	2021	2021	2021	2021
2022	2022	2022	2022	2022	2022
2023	2023	2023	2023	2023	2023
2024	2024	2024	2024	2024	2024
2025	2025	2025	2025	2025	2025
2026	2026	2026	2026	2026	2026
2027	2027	2027	2027	2027	2027
2028	2028	2028	2028	2028	2028
2029	2029	2029	2029	2029	2029
2030	2030	2030	2030	2030	2030
2031	2031	2031	2031	2031	2031
2032	2032	2032	2032	2032	2032
2033	2033	2033	2033	2033	2033
2034	2034	2034	2034	2034	2034
2035	2035	2035	2035	2035	2035
2036	2036	2036	2036	2036	2036
2037	2037	2037	2037	2037	2037
2038	2038	2038	2038	2038	2038
2039	2039	2039	2039	2039	2039
2040	2040	2040	2040	2040	2040
2041	2041	2041	2041	2041	2041
2042	2042	2042	2042	2042	2042
2043	2043	2043	2043	2043	2043
2044	2044	2044	2044	2044	2044
2045	2045	2045	2045	2045	2045
2046	2046	2046	2046	2046	2046
2047	2047	2047	2047	2047	2047
2048	2048	2048	2048	2048	2048
2049	2049	2049	2049	2049	2049
2050	2050	2050	2050	2050	2050

Finals

X-Sections # 4 Buttress

Tue. 19-May 1953

L-1047 - L1127



35
 ① X-Sections on # 4 Buttress

Sta. + ∇ - Elev.
 4.0 1969.0 1965.0

1992.8
 (1992.8)
 16
 3.5
 89.3

7
 +0.0 5.8 3.8
 69.0 63.2 62.1

(1992.8)
 16
 3.0
 89.8

8 8 7.3 5.8 3.6 1.4
 +3.0 1.8 5.6 6.3 6.9 7.8
 72.0 67.2 63.4 62.7 62.1 61.2

(1992.8)
 16
 2.6
 90.2

8.1 7.1 4.2 3.9
 +1.0 6.6 7.3 8.1
 70.0 62.4 61.7 60.9

(1992.8)
 16
 2.6
 90.2

9 8 5.7 4.4
 +2.0 1.4 6.7 8.4
 71.0 67.6 62.3 60.6

19-May 1953

Locker
Halstead
Murphy

②

36

① = ~~4~~ #4 Butt.

F	S
N	W

(1969.0)

(1992.8)

0	4.2	4.2	7.5	11.5	15
7.7	7.3	0.0	9.3	4.0	3.5
61.3	61.7	69.0	83.5	88.8	89.3

(1969.0)

(1992.8)

0	3	3	5.4	8.1	10.1	7.5	12	15
7.8	7.7	7.0	6.6	5.0	+3.8	8.6	4.1	3.0
61.7	61.3	62.0	62.4	64.0	72.8	84.2	88.7	89.8

(1969.0)

(1992.8)

0	2	4.4	4.4	8	10	8	15
8.3	8.1	6.6	5.3	4.3	+6.7	8.1	2.6
60.7	60.9	62.4	63.7	64.7	75.7	84.7	90.2

(1969.0)

(1992.8)

0	0.9	1	2.7	4.4	4.4	8	10	8	15
9.5	9.5	10.5	10.6	9.2	5.2	3.4	+6.7	8.1	2.6
59.5	59.5	58.5	58.4	59.8	63.8	65.6	75.7	84.7	90.2

Continued on page 3 ✓

36 ③ #4 Buttress Continued ^{1992.8}

Sta.	+	↑	-	Elev.
✓ ^L 1060		1969.0	(1992.8) 16 2.3 90.5	7.7 3.5 2.3 0.8 9.8 10.8 68.2 59.2 58.2

✓ ^L 1062.3		(1992.8) 17 2.2 90.6	4.5 3.1 3.5 2.3 4.6 12.1 9.8 10.8 64.4 56.9
-----------------------	--	-------------------------------	---

✓ ^L 1065.6		(1992.8) 18 1.3 91.5	4.2 3.0 1.5 5.7 13.7 14.2 63.3 55.3 54.8
-----------------------	--	-------------------------------	--

T.P. 5.9 1962.2 12.7 1956.3

✓ ^L 1070		(1992.8) 19 1.2 91.6	5.5 3 1.5 +1.0 8.0 8.5 63.2 54.2 53.7
---------------------	--	-------------------------------	---

T.P. 3.3 1965.3 0.2 1962.0

19-May '53

Page 2 for party

④



36

(1969.0)

0	3	4.4	4.4	6.5	9.3	8.7
11.2	11.1	9.7	5.6	+0.3	+1.6	+8.2
57.8	57.9	59.3	63.4	69.3	70.6	-77.2

(1992.8)

7	12
7.0	2.8
85.8	90.0

15

2.3

90.5

(1969.0)

0	1.4	3.6	5	8.3	8.9	5
11.6	11.5	10.8	0.0	+1.3	+5.9	+9.7
58.4	57.5	58.2	69.0	70.3	74.9	78.7
57.4						

(1992.8)

6.5	11.5	15
6.1	2.6	2.2
86.7	90.2	90.6

(1969.0)

0	3.2	4	6	8.2	6
14.3	14.0	11.8	0.2	+0.6	+4.5
54.7	55.0	57.2	68.8	69.6	73.5

(1992.8)

5	10	15
4.4	2.0	1.8
88.4	90.8	91.0

(1962.2)

0	2.4	3.8	4.2	5.2
8.8	8.5	7.6	+0.7	+1.6
53.4	53.7	54.6	62.9	63.8

(1992.8)

6	11	15
4.0	1.0	1.2
88.8	91.8	91.6

✓

⑤ 37 # 4 Buttress ^{1992.8} Continued

Sta.	+	∧	-	Elev.
✓ h 1080		1965.3 18 0.3 92.5	(1992.8) 6.5 +5.1 70.4	5.9 0.0 65.3 600 53.9

✓ h 1087		18 0.4 92.4	(1992.8) 4.9 +3.8 69.1	4.2 +0.5 65.8 53.4
-------------	--	-------------------	---------------------------------	-----------------------------

✓ h 1090		18 1.4 91.4	(1992.8) 5.4 1.9 63.4	3.5 7.5 57.8 53.0 52.5
-------------	--	-------------------	--------------------------------	------------------------------------

✓ h 1100		21 8.0 84.8	(1992.8) 8.9 +1.8 67.1	5.2 4.7 62.1 60.6 52.0
-------------	--	-------------------	---------------------------------	------------------------------------

□ 3.3 1989.5 (1989.5)

19-May '53

Page 2 for party ⑥

S
E — W
N

37

(1965.3)

0	3.6	4.3	6.1
11.6	11.5	+0.4	+2.5
53.7	53.8	65.7	67.8

(1992.8)

0	12.3	16.8	21
18.2	12.7	0.3	0.5
74.6	80.1	92.5	92.3

(1965.3)

0	2.6	3.5	4.3	4.4	6.4	6.4
11.6	11.7	9.6	9.2	3.0	+2.5	+2.7
53.7	53.6	55.7	56.1	62.3	67.8	73.0

(1992.8)

8	12	15.5
16.1	14.3	0.4
76.7	78.5	92.4

(1965.3)

0	2.6	3.4	3.9	7.1
13.0	12.2	9.8	1.5	+2.0
52.3	53.1	55.5	63.8	67.3

(1992.8)

7	11.5	13	18
19.0	13.5	4.5	1.4
73.8	79.3	88.3	91.4

(1965.3)

0	4	6	6.8	8.2	10.7
13.2	12.7	10.0	2.2	1.7	+5.3
52.1	52.6	55.3	63.1	63.6	70.6

(1992.8)

10.5	18
12.5	8.0
80.3	84.8

✓

⑦ 38 # A Buttress Continued

1965.3

Sta.	+	1965.3	-	Elev.
✓ ^h 1106.5			}}	6.42 6.2 2.8 9.1 10.9 14.3 56.2 54.4 51.0
✓ ^h 1108			}}	6.42 2.6 11.2 13.6 54.1 51.7
✓ ^h 1110.4			}}	6.42 6 2.1 10.9 11.5 12.6 54.4 53.8 52.7
✓ ^h 1111.2 ³			}}	6.42 3.6 1.4 11.0 11.0 12.1 54.3 54.3 53.2
✓ ^h 1115			}}	6.42 4 2.6 10.1 10.3 11.2 55.2 55.0 54.1

382 50%

19-May '53

Page 2 for party 38

E - W
N

(1965.3)

0	2	4.4	6.42
14.9	14.8	12.1	12.9
50.4	50.5	53.2	52.4

(1965.3)

0	1	2.3	4.2	5.5	6.42
13.5	14.3	14.8	12.9	12.7	11.7
51.9	51.0	50.5	52.4	52.6	53.6

(1965.3)

0	6	6.42
13.2	13.3	12.0
52.1	52.0	53.3

(1965.3)

0	3.2	6	6.42
12.1	14.0	14.2	12.8
53.7	51.3	51.1	52.5

(1965.3)

0	2.8	4	6.42
12.2	12.6	14.0	14.3
53.1	52.7	51.3	51.0

⑨ 39 # 4 - Buttress continued

Sta.	+	1965.3	-	Elev.
√ 1117			}} 6.42 3.8 1.5 9.5 8.8 9.8 55.8 56.5 55.5	
√ 1118 5			}} 6.42 2.7 1.7 9.5 8.2 4.5 55.8 57.1 60.8	
√ 1122			}} 6.42 2.3 1.1 2.6 64.2 62.7	
√ 1127				6.42 + 4.5 69.8
□ √			3.3	1962.0 (1962.0)

382 50%

19-May 1953

Page 2 for party 10

S
E — W
N

39

(1965.3)

0	1.9	3.5	5.3	6.42
10.0	10.5	12.1	14.1	14.5
55.3	54.8	53.2	51.2	50.8

(1965.3)

0	3.6	6.42
4.7	12.8	14.3
60.6	52.5	51.0

(1965.3)

0	3.7	6.42
3.1	3.3	13.7
62.1	62.0	51.6
62.2		

(1965.3)

0	3.3	4	6.42
+4.5	+2.4	1.4	3.3
69.8	67.7	63.9	62.0

✓

40

382 50%

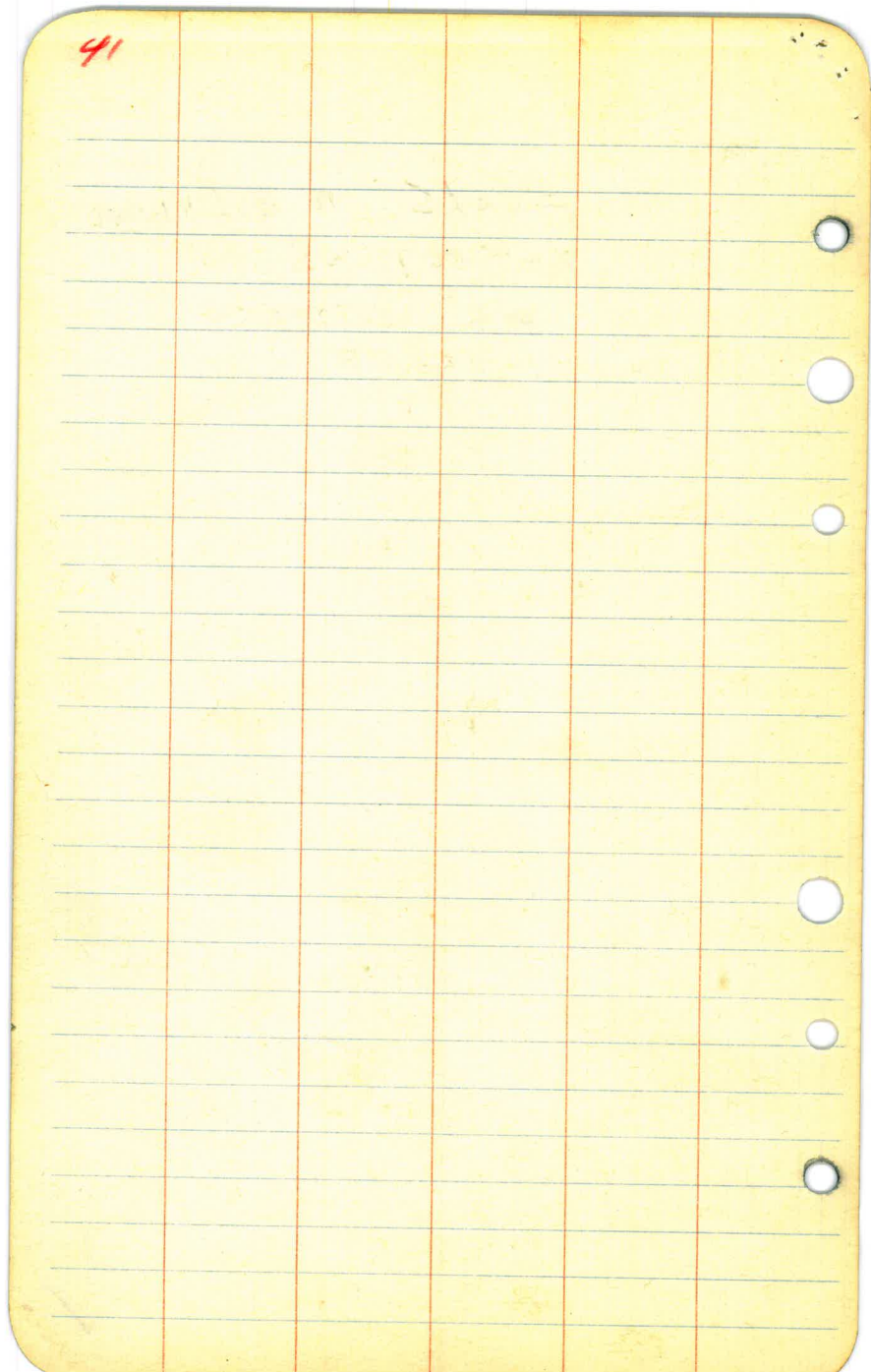
FINALS TO BULKHEAD
X-SECTIONS

#6 BUTTRESS

1-26-53



41



#6
12-31-52

41

E

L

W

$$\frac{33.6}{5.0}$$

L1070

$$\frac{33.0}{0}$$

N.Y. 41940

$$\frac{32.8}{5.0}$$

$$\frac{34.9}{5.0}$$

L1080

$$\frac{35.0}{0}$$

$$\frac{34.8}{5.2}$$

$$\frac{33.7}{6}$$

L1090

$$\frac{33.7}{0}$$

$$\frac{33.7}{6.3}$$

$$\frac{34.5}{7}$$

L1100

$$\frac{34.5}{0}$$

$$\frac{34.5}{5.5}$$

$$\frac{39.3}{4}$$

L1110

$$\frac{39.3}{0}$$

$$\frac{39.3}{4}$$

QUANTITIES DETERMINED FROM
THESE PROFILES FOR
ESTIMATE #6

EXISTING GND 1-19-53 = 1920

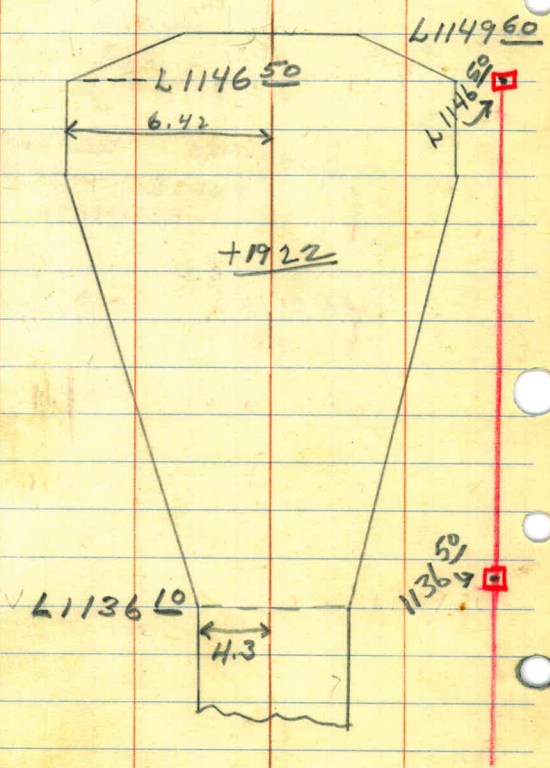


42

#16

PROFILE 1-21-53

	ELEV	USE
L 1010	1925	$\frac{1}{2}$ WIDTH - BUT = 4.3
20	1922	" P.LAST = 9.1
30	1923	BY = 5.62
40	1923	
50	1926	
60	1927	
70	1928	
80	1929	
90	1931	
1100	1932	
10	1932	
20	1931	
30	1929	
40	1928	
50		



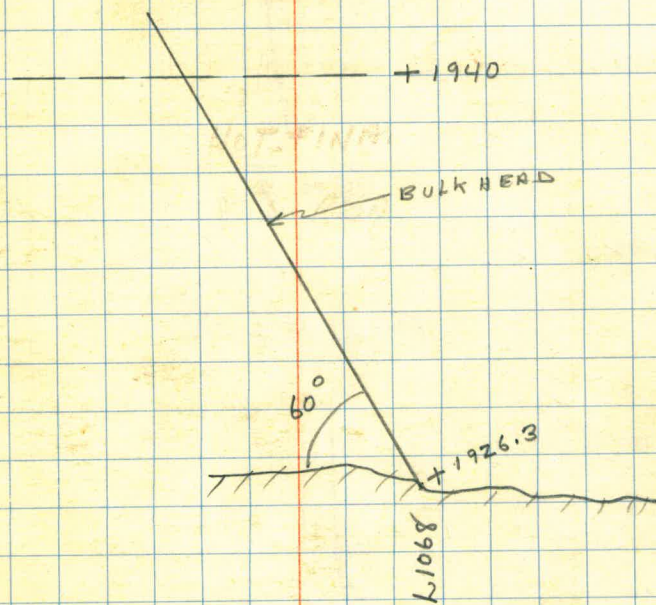
1-25-53

42

X-SECTION #6

NOT FINALS

32,148# REINFORCING 1-29-53



1-26-53

#6 Buttress Excavation

43

+

⌒

-

Elev

□

4.0

1934.0

1930.0

L-1068

BULKHEAD

Dist
Rod
Elev

16.0

1956.0

1940.0

L-1070

NOT

L-1080

FINALS

L-1090

L-1100

L-1110

West Φ East

43

	(1934.0)					(1956.0)
8.5	5	4.0	0	5		7.9
7.4	4.5	5.8	7.7	7.2		7.4
48.6	29.5	28.2	20.3	26.8		48.6

	(1934.0)						
8.5	5.1	5	3.5	0	3.5	4.7	7.9
7.0	3.6	3.5	6.3	6.5	6.4	5.3	7.0
49.0	30.4	30.5	27.7	27.5	27.6	28.7	49.0

	(1934.0)							
6.5	4.9	4	1.5	0	2	2.5	5	5.7
6.5	2.7	2.7	5.3	5.5	5.2	4.5	4.2	2.2
49.5	31.3	30.3	28.7	28.5	28.8	29.5	29.8	31.8

11.3
6.5
49.5

	(1934.0)					
7.5	4.5	3.6	0	4.5	5.9	11.8
6.2	2.4	2.8	3.2	3.0	1.0	6.2
47.8	31.6	31.2	30.8	31.0	33.0	49.8

	(1934.0)					
7.5	4.7	2.2	0	5	5.7	8.2
6.1	1.2	2.6	2.6	2.4	1.3	6.1
49.9	32.8	31.4	31.4	31.6	32.7	49.9

	(1934.0)						
7.5	4.8	3.1	0	3.2	4.7	5.8	7.5
7.1	1.8	2.2	3.6	2.2	2.0	0.7	7.1
1948.9	32.2	31.8	30.4	31.8	32.0	33.3	1948.9

✓

1-26-53

6 Buttress

44

+

π

-

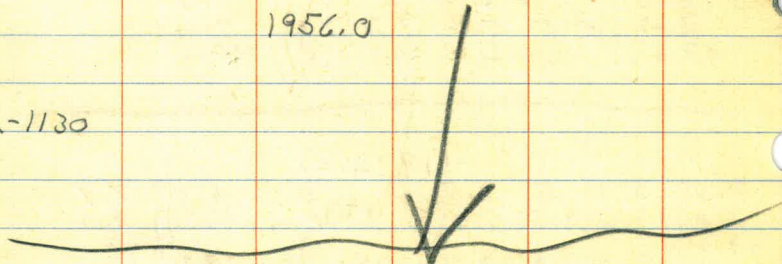
Elev.

L-1120

1934.0

1956.0

L-1130



L-1060

0.0

1930.0

1930.0

L-1055⁸

L-1055⁸

West

R

East

1936.0

44

(1934.0)

7.6	5	4	2	0	3	4.5	5	8.2
7.6	2.1	2.4	2.7	3.3	3.5	2.9	2.6	7.6
48.4	31.9	31.6	31.3	30.7	30.5	31.1	31.4	48.4

(1934.0)

8.0	6.2	5	0	3.3	4.3	6.0
8.2	0.7	4.1	5.2	5.1	2.0	8.2
47.8	33.3	29.9	28.8	28.9	32.0	47.8

(1930.0)

6.2	5.2	4	1.6	0	3.1	4.6	9.4
1.7	2.9	3.3	4.2	4.3	4.0	3.3	8.0
28.3	27.1	26.7	25.8	25.7	26.0	26.7	48.0
10							
8.0							
48.0							

(1930.0)

11.2	4.4	0	5	8.6
8.2	4.0	5.6	5.3	8.2
47.8	26.0	24.4	24.7	47.8

1930.0

11.2	8.1	4.4	0	5	7.2	8.6
8.2	2.9	4.0	5.6	5.3	3.8	8.2
47.8	27.1	26.0	24.4	24.7	26.2	47.8

✓

#6 Buttress 1-26-53

45 + ~~π~~ - Elev.

L-1053

1930.0

1956.0

L-10502

L-10502

L-1046

L-1040

0.0 1928.0

1928.0

West Φ East 1956.0 45-

(1930.0)

2.9	7.5	5.2	2.7	0	5.5	9	8.6
2.2	4.6	4.4	4.6	5.2	4.7	2.8	8.2
27.8	25.4	25.6	25.4	24.8	25.3	27.2	47.8
11.1							
8.2							
47.8							

(1930.0)

11.2	4.2	1.8	1.3	0	1.5	5.4	8.6
8.2	5.7	5.1	6.0	5.3	4.3	5.4	8.2
47.8	24.3	24.2	24.0	24.7	25.7	24.6	47.8

(1930.0)

11.1	9.8	4.2	1.8	1.3	0	1.5	5.4	8.7	8.6
8.2	5.4	5.7	5.1	6.0	5.3	4.3	5.4	3.1	8.2
47.8	24.6	24.3	24.9	24.0	24.7	25.7	24.6	24.9	47.8

(1930.0)

10.5	6.1	4.2	3.8	0	4.5	5.8	6.0
8.7	3.2	6.6	7.4	7.1	4.5	3.0	8.7
47.3	26.8	23.4	22.6	22.9	25.5	27.0	47.3

(1928.0)

10.0	6.3	5	3.3	0	3.6	5	5.5
8.3	2.3	5.8	6.3	5.6	4.1	2.9	8.3
47.7	25.7	22.2	21.7	22.4	23.9	45.1	47.7

✓

46

G-Buttress 1-26-53

+ ∇ - Elev

L-1030

1928.0

1956.0

L-1020

L-1014

L-1010

L-1005

382 50%

West

East

46

(1928.0)

5.5	5	4.8	2	0	2	4.3	5.2
8.2	0.6	4.2	3.5	4.7	5.9	5.5	8.2
47.8	27.4	23.8	24.5	23.3	22.1	22.5	47.8

(1928.0)

7.7	4.3	0	4.4	5	7.6
8.2	5.5	5.5	4.5	2.3	8.2
47.8	22.5	22.5	23.5	25.7	47.8

(1928.0)

5.4	4.2	0	4.7	10.1
8.5	4.9	5.9	4.8	8.5
47.5	23.1	22.1	23.2	47.5

(1928.0)

5.6	4	3.7	0	2.4	3.9	4.7	9.7
8.5	4.9	5.7	5.4	5.2	5.0	1.0	8.5
47.5	23.1	22.3	22.6	22.8	23.0	27.0	47.5

(1928.0)

9	4.4	0	1.5	4.2	10
7.9	6.3	6.8	6.3	3.0	7.9
48.1	21.7	21.2	21.7	25.0	48.1

✓

47

1-27-53

FROM L1016 - L1068

+ 1934 → + 1940

DIST	LINES <small>SAME 1020</small>	AREA	OVER <u>2</u>	FORM X DIST	
4	L1016	77	77	308	
10	L1020	77	71	710	
10	L1030	65	74	740	
6	L1040	83	85	510	
4	L1046	88	87	348	
	L1050	87	102		
3	L1050	116	116	348	
2.8	L1053	116	111	311	659 CF
	L1055 ⁸	106	98		
14.2	L1055 ⁸	91	90	378	
8	L1060	89	84	672	
	L1068	79			3666 CF

(TOTAL ROCK-ROCK)

PILASTER = 24.4 cys

BUT = 135.8 cys

} 160.2 cys

DEDUCT FORMED BUT FROM 1940-1934

6^{45.96}(7.66)(52.0) = 2389.912^{43.72}(5.31)(4.54) = 289.292679.21 = 92.4 cys

27

OVER BREAK = 67.8 cys

6

47

1-29-30

DEDUCTING CONCRETE FROM +1940 → +1938
FROM L1016 → L1075

L1016	12.0	12	4	48
L1020	12	11	10	110
L1030	10	11	10	110
L1040	13	14	6	84
L1046	14	14	4	56
L1050	14			
L1050	19	19	3.0	57
L1053	19	18	2.8	50
L1055 ^B	18			
L1055 ^A	16	16	4.2	67
L1060	16	15	8.0	120
L1068	14	13	7.0	91
L1075	13			
				<u>793 CF</u>

$$\frac{793}{27} = 29.37 \text{ cys}$$

TOTAL OVER ALL YARDAGE

$$\begin{array}{r}
 339.67 \\
 384.70 \\
 20.66 \\
 \hline
 745.03 \\
 - 29.37 \\
 \hline
 715.66 \text{ cys} - 26.11 = \underline{689.55 \text{ cys}}
 \end{array}$$

48

201 507

1-27-53

48

CONC TO 1940 FROM L961 L1016
CORRECTION 1-30-53

AREA	CONC	DIST			CORRECTION	1-30-53
L960	10	24	1.0	24.0	6	7 7.0
L961	38	47	1.2	56.4	8	8 9.6
L962 ²	56	30	7.8	265.2	9	10 78
L970	83	102	10.0	1020.0	11	11 110
L980	121	124	7.5	930.0	11	11 87.5
L987 ⁵	128	161	2.5	402.5	10	11 27.5
L990	195	187	2.3	430.1	13	13 29.9
L992 ³	179	405	2.4	972.0	13	13 31.2
L9947	226				15	
L9947	328	337	5.3	1786.1	18	18 95.4
L1000	346				19	
L1000	254	232	5.0	1160.0	17	17 85
L1005	210	195	5.0	975.0	15	14 70
L1010	181	189	4.0	756.0	13	13 52
L1014	197	197	2.0	394.0	13	11 22
L1016	197				10	705.1 CF
				9171.2 CF		

$\frac{9171.2}{27} = \underline{339.67 \text{ cy's LEVEL}}$

FROM CHANGE GRADE STAIR
 $\frac{705.1}{27} = 26.11 \text{ cy's}$

$\frac{339.67}{26.11} = 313.56 \text{ BATTERED}$

49

1-29-30

	CONC AREA	To	+1940 ±	FROM DIST	21016 - 21068
L1016	197		199	4.0	796
L1020	201		185	10.0	1850
L1030	169		192	10.0	1920
L1040	215		213	6.0	1278
L1046	212		205	4.0	820
L1050	197				

L1050	288		279	3.0	837
L1053	270		257	2.8	719.6
L1055	245				

L1055	195		190	4.2	798.0
L1060	185		171	8.0	1368
L1068	156				

$$\underline{10387 \text{ CF}}$$

$$\frac{10387}{27} = 384.7 \text{ cys}$$

BATTERED BULK HEAD 0-7.15

L1068	156		78	7.15	557.7 CF
-------	-----	--	----	------	----------

$$\frac{557.7}{27} = 20.66 \text{ cys}$$

EXCAVATION

0-10 1.45 cy

10-20 97.55 cy

20-30 364.90 cy

30- 115.71 cy

} BY CITY

FINALS ON HEAD END

X-SECTIONS ON #7

TO 1952 3-2-53

1928 F

Plotted
F.C.

~~S~~-Section # 7 Buttress 2-March '53

Sta. + - Elev

□ 6.32 1922.88 1916.56

1110.8 ✓

1123 ✓

1124.5 ✓

1126.7 ✓

1126.8 ✓

1130 ✓

Dallas, Ben & Curley

JO (2)

East 0 West

(1922.88)

✓
4.25 0 4.25
2.14 2.14 2.15
1920.74 1920.74 1920.73

✓
4.3 0 4.3
1.89 1.91 1.97
1920.99 1920.97 1920.91

✓
4.3 0 4.3
2.12 2.15 2.24
1920.76 1920.73 1920.64

✓
4.3 0 4.3
2.12 2.15 2.19
1920.76 1920.73 1920.69

✓
4.3 0 4.3 4.3 4.3
2.79 3.63 4.63 4.64 4.42
1920.09 1919.25 1918.25 1918.24 1918.46

4.3 1.6 0 1.3 3.5 4.3
2.79 3.64 3.55 3.57 4.50 4.21
1920.09 1919.24 1919.33 1919.31 1918.38 1918.67

✓

87 ③ # 7 Buttress 2-March '53

Sta.	+	⌈	-	Elev
1132	✓			1922.88

1135 ✓

1136.5 ✓

~~1143~~

~~1145~~

~~1149~~

East	6.5	2.0	2.0	0
	5.94	5.95	5.89	5.43
	1916.94	1916.93	1917.49	1917.45

1149

East			West		
4.4	2	0	2.4	3	4.2
5.49	4.15	4.90	4.93	4.21	3.94
1919.49	1918.73	1917.98	1917.95	1918.67	1918.94

4.4	0	2	3.8	4.4
4.49	4.85	5.14	5.62	4.64
1918.39	1918.03	1917.74	1917.26	1918.24

4.4	0	4.4
5.68	5.64	5.62
1917.20	1917.24	1917.26

4.6	0	4.6
5.88	5.69	5.77
1917.00	1917.19	1917.11

6.4	0	0.9	1.0	1.1	6.5
5.89	5.85	5.85	5.35	5.87	5.87
1916.99	1917.03	1917.03	1917.53	1917.01	1917.01

1.1	1.1	1.1	3.0	3.0	6.5
5.41	5.82	5.41	5.39	5.89	5.93
1917.47	1917.06	1917.47	1917.49	1916.99	1916.96



52 (5) # 7 Buttress 2-March '53

Sta. + ∇ - Elev.

1922.88
1153 (East) 5.93 5.87 5.42 5.44 5.92

1917.01 11.42 11.44 1919.6

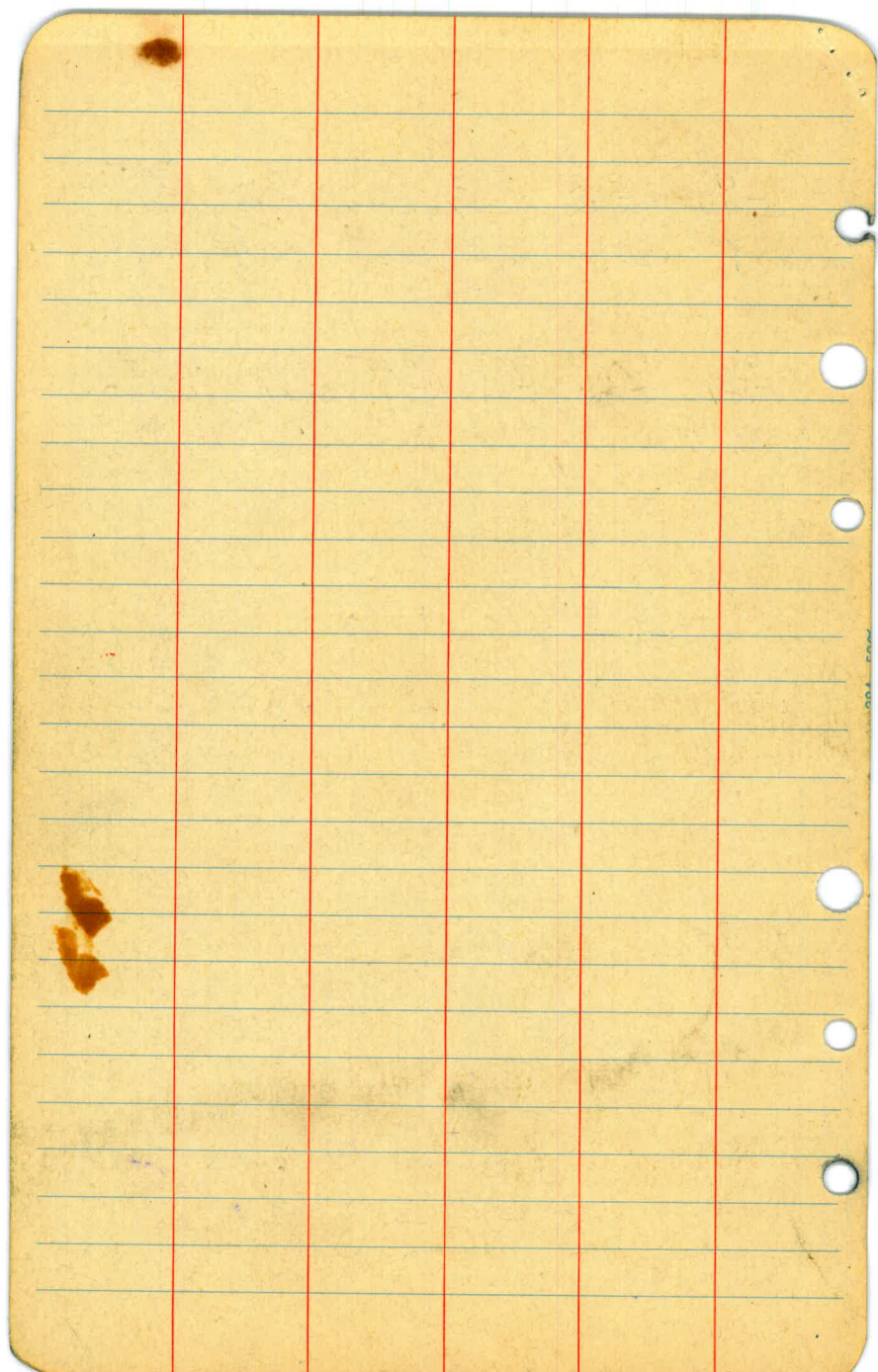
1160 East 5.87 5.87 5.26 5.29 5.78

1916.56 1916.56

(west)

0	2.2	3.2	5.2	5.2	7
5.90	5.92	5.97	5.36	5.90	5.91
1916.98	1916.86	1917.51	1917.52	1916.98	1916.97

0	7.1	7.1	9.4	9.4	12.5
5.89	5.85	5.31	5.41	5.99	6.04



FINALS
#7 X-Section
2-12-53

Plotted
F.C.



53 X-Sections on #7 Buttruss

12-Feb 1953

①

Sta.	+	π	-	Elev.
L 1140 X	0	1915.3		1915.3
L 1142.7 X			9.0	1906.3
L 1146.7 X				
L 1151.5 X				

Ug1145 - Notes
 Ben - Tapet P
 Cutley - Tapet P

(2)
 53

East.

West

9.6	7.2	6.3	3	0	3.5	4.9	7.4	8.8
+ 2.4	+ 2.6	+ 0.8	- 0.3	1915.3	+ 0.7	+ 2.0	+ 6.2	6.3
1917.7	1917.9	1916.1	1915.0		1916.0	1917.3	1921.5	1921.6
12.0	12.0							10.4
+ 3.5	+ 6.6							1920.8
1918.8	1921.9							

8.6	7.8	6	0	3	6
+ 9.7	+ 5.7	+ 0.7	1906.3	0.0	+ 7.3
1916.0	1912.0	1907.0		1906.3	1913.8
10.3	13.6	13.6			10.4
+ 10.2	+ 11.8	+ 13.8			1920.9
1916.5	1918.1	1920.1			7.5
					+ 15.3
					1921.6

10.7	7.3	1	0.5	0	5.4	6.1	10.4
+ 7.0	+ 1.8	+ 2.0	0.0	1903.7	+ 0.1	1919.2	1919.8
1910.7	1905.5	1905.7	1903.7		1903.8		

11.1	18	17
+ 9.5	+ 13.8	+ 16.3
1913.2	1917.5	1920.0

9.7	3.2	2.6	0	1.5	4.8	7.3
+ 0.7	+ 0.1	+ 1.4	1905.5	- 2.0	- 2.9	- 2.8
1906.2	1905.6	1906.9		1903.5	1902.6	1902.7

12	14.4	15.5	← Biked	6.8	6.8	8.7
+ 2.3	+ 6.0	+ 6.4		1914.3	+ 7.4	+ 3.7
1907.8	1911.5	1911.9			1912.9	1909.2

7.8	10
1919.2	1919.2

✓

X Sections of #7 Buttress
54 Continued 12-Feb 1953

Same
Party

③

L
1156 X

L
1158 X

L
1159.5 X

L
1162.3 X

384 5062

East

West

(4)

Blkhd	11.5	9.4	3.9	0	3	3.8	6.2	7.8
	+ 2.3	0.0	- 0.8	1906.2	- 2.1	- 4.7	- 6.5	- 6.5
	1908.5	1906.2	1905.4		1904.1	1901.5	1899.7	1899.7

10.5
- 5.8
1900.4

1	3	2	0	3.7	4.5	5.4	11.1
- 2.5	- 1.1	+ 0.4	1914.4	- 1.1	- 7.4	- 15.0	- 14.4
1911.9	1913.3	1914.8		1913.3	1907.0	1899.4	1900.0

			Blkhd
3	5	7	9.5
- 9.0	- 9.3	- 7.4	- 7.0
1905.4	1905.1	1907.0	1907.4

2.4		0	4.8	6	12
+ 0.5		1915.2	- 1.7	- 16.0	- 15.5
1915.7			1913.5	1899.2	1899.7

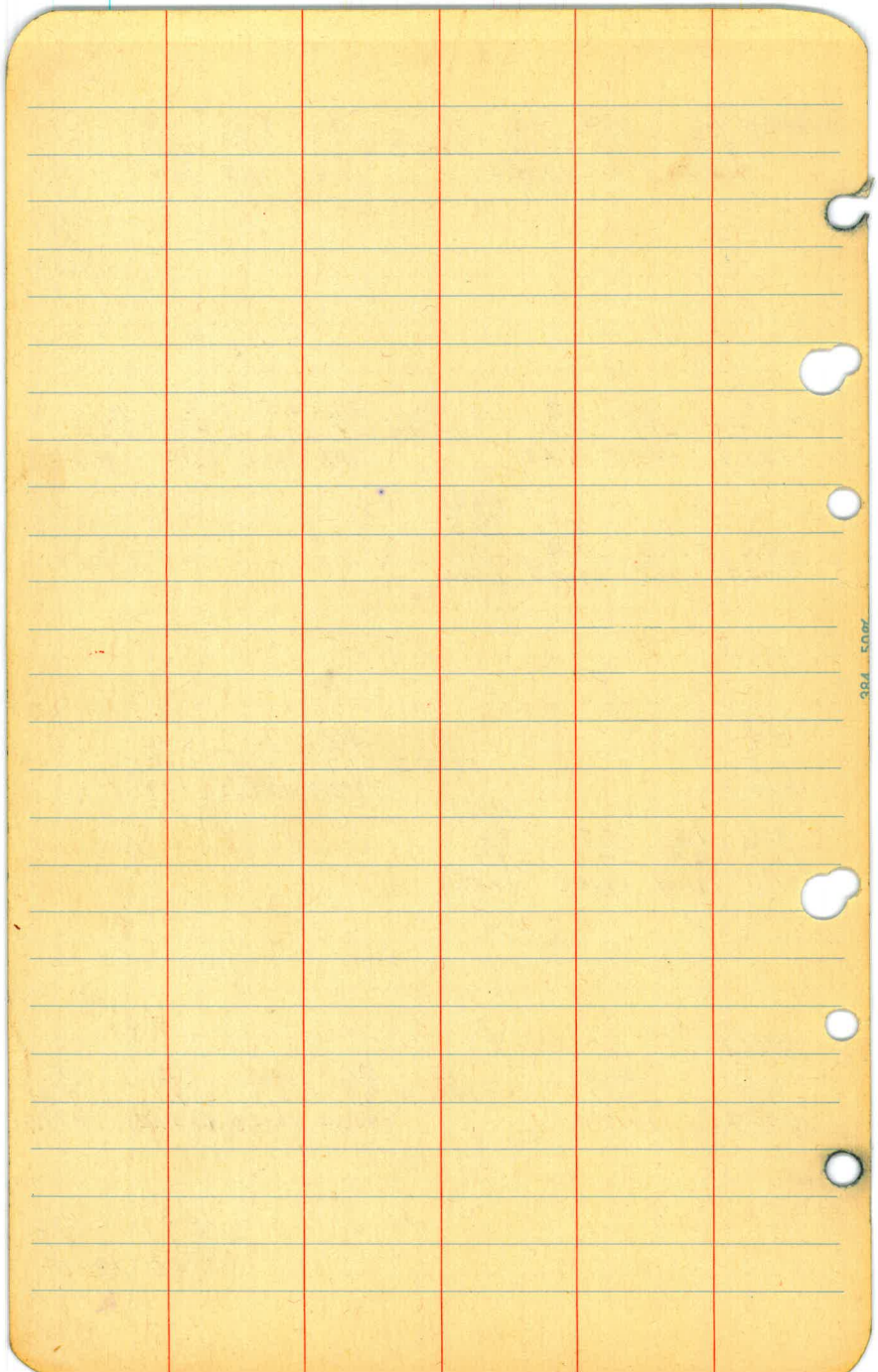
			Blkhd
5.8	1.6	5.5	8.6
- 1.1	- 4.4	- 7.0	- 7.7
1914.1	1910.8	1908.2	1907.5

Blkhd			0	5.1	6.6	8.4	10
6.5	6.3		1916.3	- 0.9	- 2.3	- 17.1	- 17.4
- 9.9	+ 0.7			1915.4	1914.0	1899.2	1898.9
1906.4	1917.0						

14.3
- 18.1
1898.2

11
- 18.9
1897.4

✓



FINAL
X Sections
Arch 7-8
2-6-53

S.D.
Not loose leaves
Last name

Plotted 2-18
W.S.K.

55 X-Sections over # 7-8
Arch Ring

①

Sta.	+	∩	-	Elev.
17	9.33	1918.35		1909.02
T.P.	3.35	1919.91	1.79	1916.56

D1430

D1440				0	7.2
				0.5	2.3
				1919.4	1917.6

D1441	0.0	1907.4	12.5	1907.4
-------	-----	--------	------	--------

(1919.9)					
D-1450	0	13.5	17.2	23	25
	1.1	3.7	8.5	10.3	13.6
	1918.8	1916.2	1911.4	1909.6	1906.3

	4.2	1913.9	10.2	1919.7
--	-----	--------	------	--------

Base line = L-1150 = Zero
 2-6-53 South → Dick-Dallas-Bea ②

(1919.9)		(1907.4)		(1919.9)
0 6	}}	8.5 13 15.4 17.9	}}	20.3 23.7
0.9 1.6	}}	7.2 7.8 10.0 10.1	}}	6.6 6.2
1919.0 1918.3	}}	1900.2 1899.8 1897.4 1897.3	}}	1913.3 1913.7

	(1919.9)
44	34 26.6
2.6	3.2 2.8
1917.3	1916.7 1917.1

(1919.9)		(1907.4)		(1919.9)
10.6 14.5 15.3 17.4 19.5	}}	20.7 25.8 27.2	}}	29 30.8
5.1 6.4 8.1 8.6 12.5	}}	11.3 10.2 7.3	}}	7.7 7.2
1914.8 1913.5 1911.8 1911.3 1907.4	}}	1896.1 1897.2 1900.1	}}	1912.2 1912.7

Ditto ↗

Ditto ↘

20.7	-	27.2
1901.1		1900.1

	(1919.9)
44	38.6 34
3.4	2.2 3.6
1916.5	1917.7 1916.3

(1913.9)		(1919.9)
25.8 30 31.6	}}	33.5 39 44
12.3 12.2 8.4	}}	9.0 6.9 4.5
1901.6 1901.7 1905.5	}}	1910.9 1913.0 1915.4

56

- Cont. -

(3)

D	+	π	-	Elev.
1460		(1919.91)		
	0	5	12.8	14
	0.7	2.4	5.8	8.7
	1919.2	1917.5	1914.1	1911.2
				16.5
				8.5
				10.3
				17.5
				1909.6

		(1919.91)			(1914.7)
D1470	0	10	11	18	18
	4.2	5.3	8.2	7.98	16.0
	1915.7	1914.6	1911.71	1911.93	1903.9
					21.4
					13.0
					1901.7

D
1476

6.8 1914.7 12.0 1907.9

2-6-53

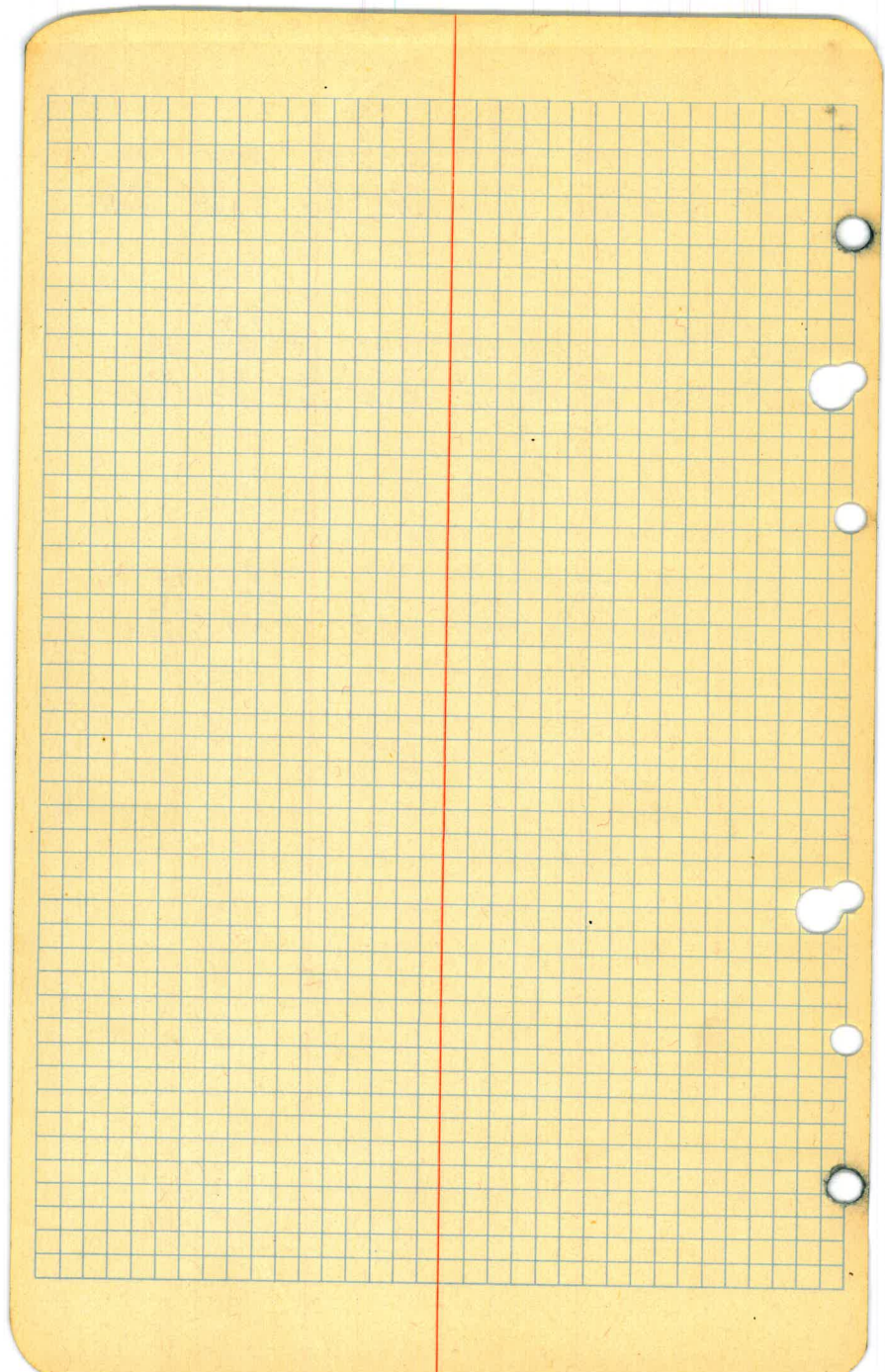
CONT. # 1-8 King

④
5-6

(1919.9)							
20.6	23	24	29.3	31.5	34	36.6	44
12.0	14.1	18.1	18.1	7.4	8.0	5.2	4.1
1907.9	1905.8	1901.8	1901.8	1910.5	1911.9	1914.7	1915.8

(1914.7)				(1919.9)			
23.4	26.2	28	29.7	34.4	37	40	44
13.0	7.5	5.5	8.4	6.5	4.4	4.6	3.3
1901.7	1907.2	1908.2	1911.5	1913.4	1913.5	1915.3	1916.6

9.9	17.4	17.4	20.6	21.9	39.0	44
7.97	7.91	16.7	11.0	7.1	5.2	3.5
1911.94	1912.00	1903.2	1908.9	1912.8	1914.7	1916.4



FINALS

SOYSTER

LOCKER

WELL

HARSTED

TRASH RACK

X-SECTIONS

2-19-53

① 19-Feb. 1953 Dallas, Ben & Corley

Sta. + \wedge - Elev.
 3.50 1943.78 1940.28

D	16.5	18.0	18.5	20	22
1620	9.60 con.	9.60 con.	6.8	6.5	4.9
	1934.18	1934.18	1937.0	1937.3	1938.9

D	16.5	18	21	26	33
1621 $\frac{5}{2}$	8.32 con.	8.20 con.	7.1	6.0	5.5
	35.46	35.58	36.68	37.78	38.28

D	16.5	18.5	19	23	29	33
1630	6.89 con.	6.70 con.	7.9	8.0	8.7	8.0
		37.08	35.88	35.78	35.08	37.78

D	15	15	23	28	31.5
1638 $\frac{5}{2}$	5.40 con.	8.0	7.7	7.1	5.7
	38.38	35.78	36.08	36.68	38.08

D	13.5	15	23	24	28	30
1640	5.40 con.	3.4	4.8	6.8	6.4	5.0

3.50 1940.28 1940.28

X-Sections between D-1620 & D-1640 (2)
L-1141 = 0' & L-1180 = 39' 57

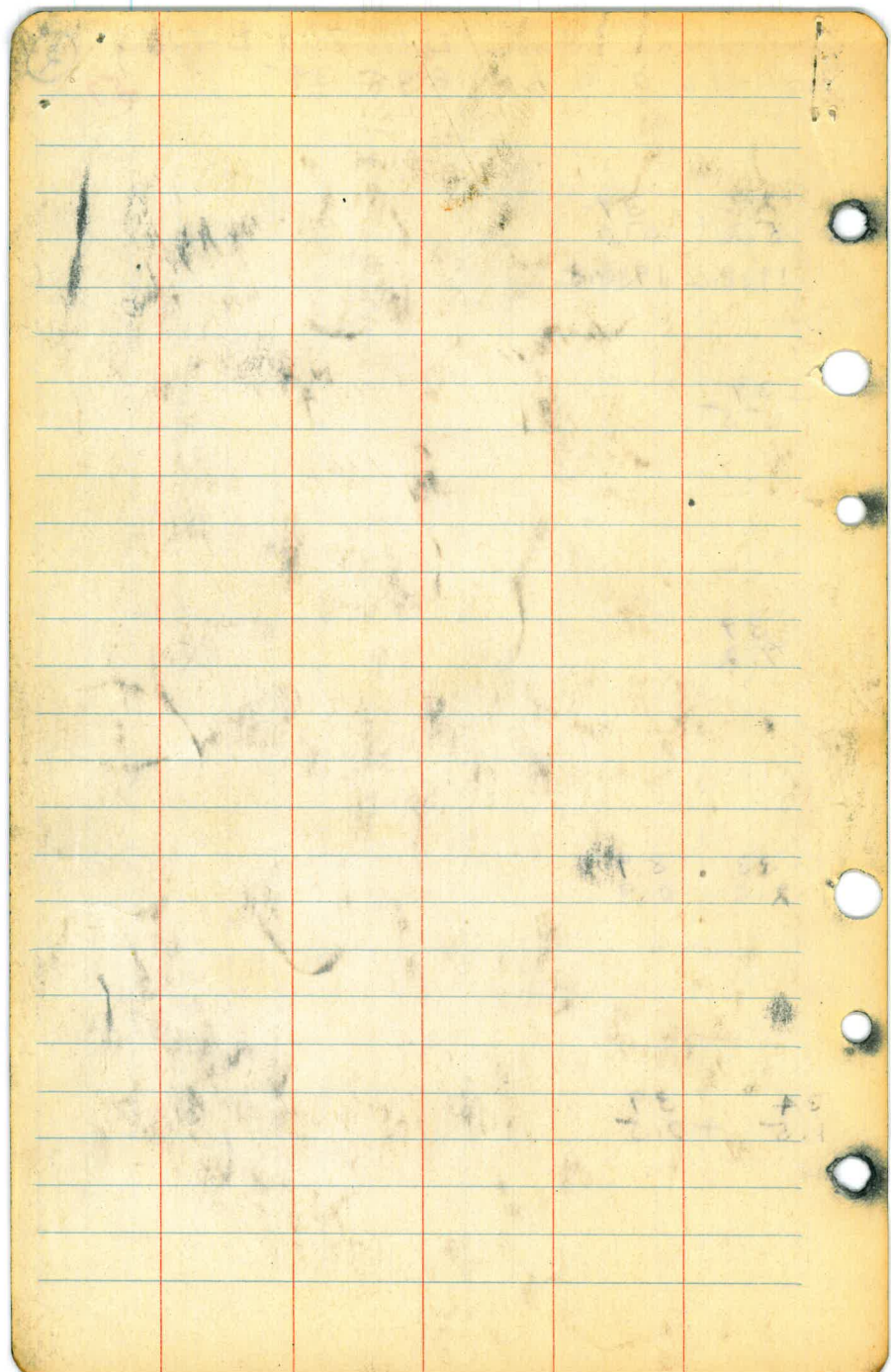
26 39
5.2 5.0
1938.6 1938.8

39
5.5

39
7.2

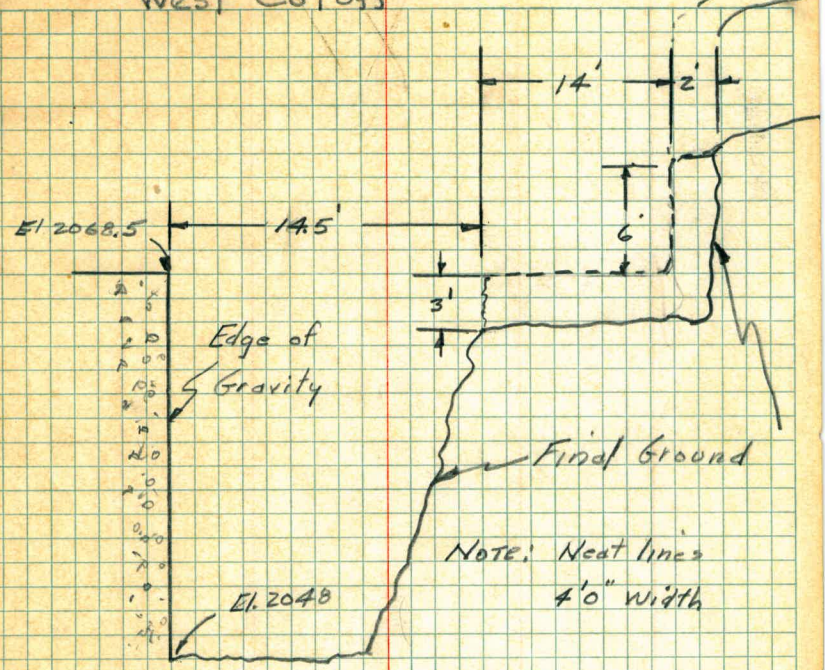
33 39
2.6 0.9

34 39
1.5 + 0.5



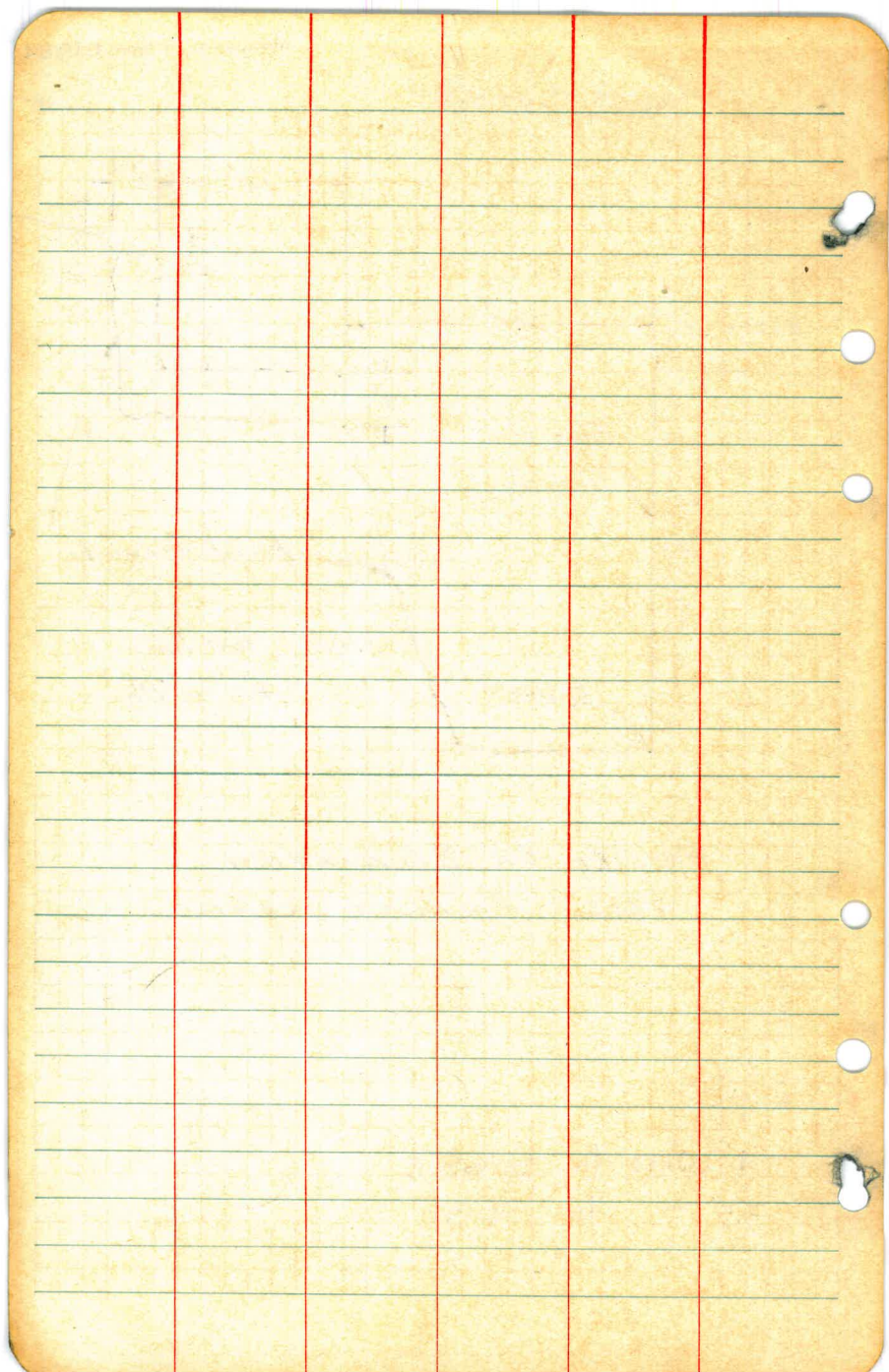
Meyers 7 April 1954

West Cutoff



PROFILE OF EXCAVATION
WEST GRAVITY SECTION

4' Wide to 2069.5'
 5.5' " to O.G.



Ave #26 5' x 5' L

144 SF

ITEM # 30 1293.7 LF

ITEM # 26 430.0 LF

EXTRA WORK 125.7 SF (10" ARM KEY)

TOP # 15

AVER BLEU = 2008.5

= 458 SF

ITEM # 26 = 50.9 SF

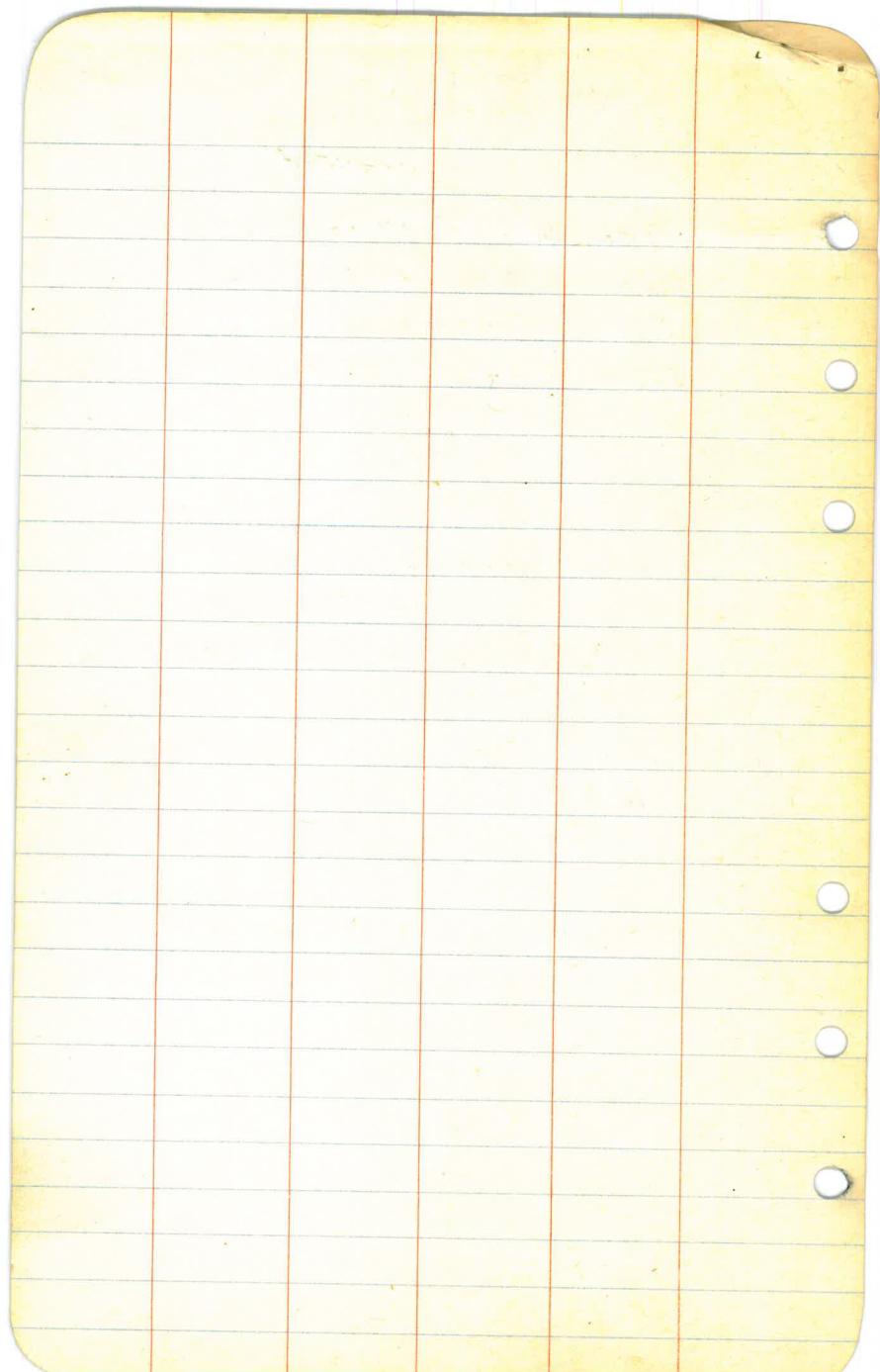
4

1033

1294

133

2



#8 BUTTRESS

CHIPPING OF DEFECTIVE JOINTS
AT BUTTRESS HEAD 1-6-53
FROM BOTTOM UP —

EAST	C	WEST
5.90	3.20	5.85
5.80	3.00	6.00
5.85	3.50	5.70
5.50	3.60	5.60
5.10	4.30	5.20
4.50	4.35	5.00
4.60	4.60	4.70
4.75	4.80	4.85
4.60	4.70	4.80
4.60	5.10	4.60
4.25	5.40	4.30
4.10	5.30	4.40
3.90	5.80	4.00
4.10	6.10	4.00
4.10	6.20	4.00
3.70	6.60	3.70
3.55		

ITEM#30 TOTAL 232.2 LF

TRACKS ON ϕ 11000 ϕ 11095 26

OVER

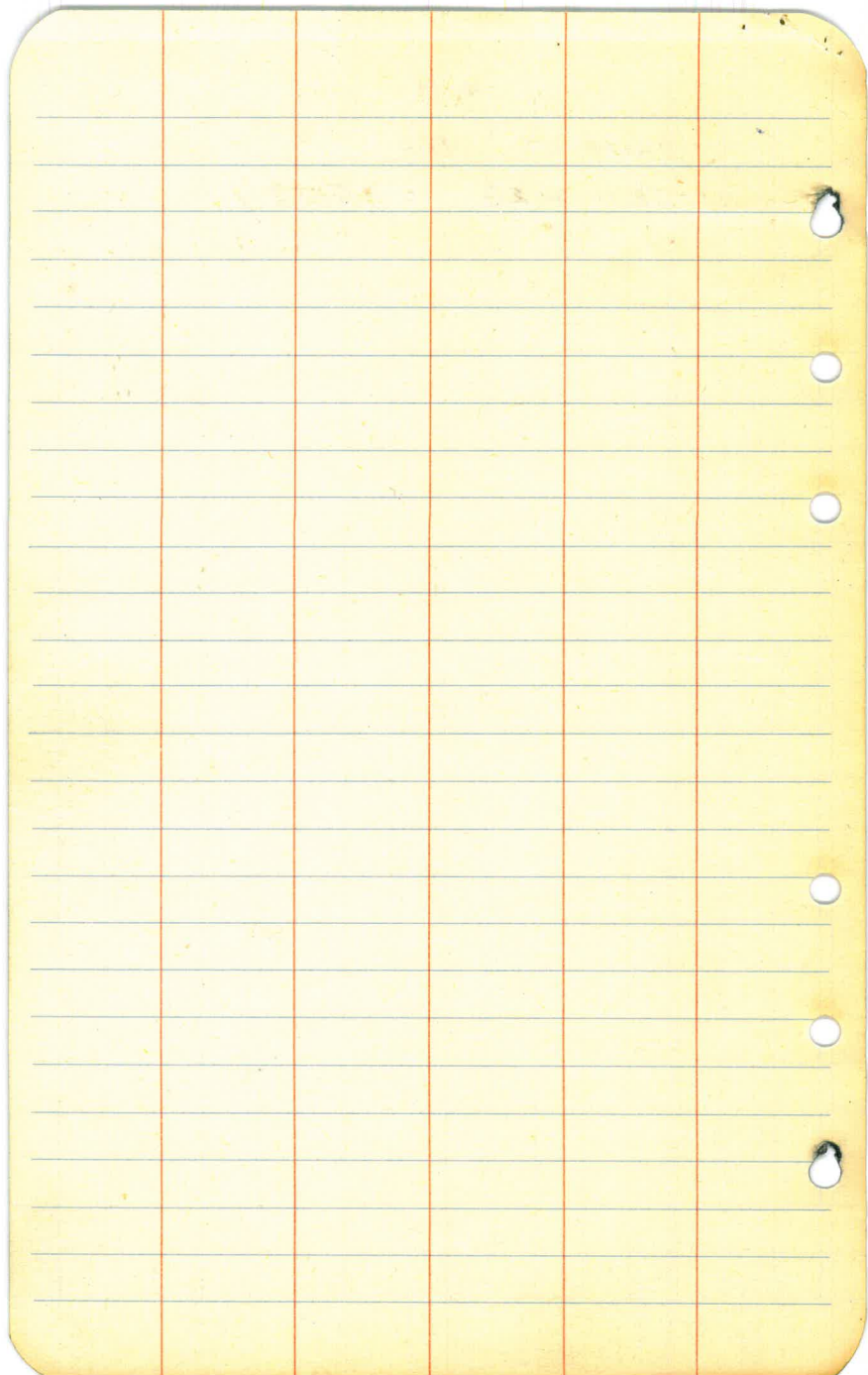
$$\text{CHIPPING } (0.21 \vee .25) = .053 = k$$

$$\begin{array}{r} 232.2 \\ .053 \\ \hline 6946 \\ 11610 \\ \hline 123066 \text{ CF} \end{array}$$

8

CHIPPING TOP

ITEM # 26 = 35.2 SY



9

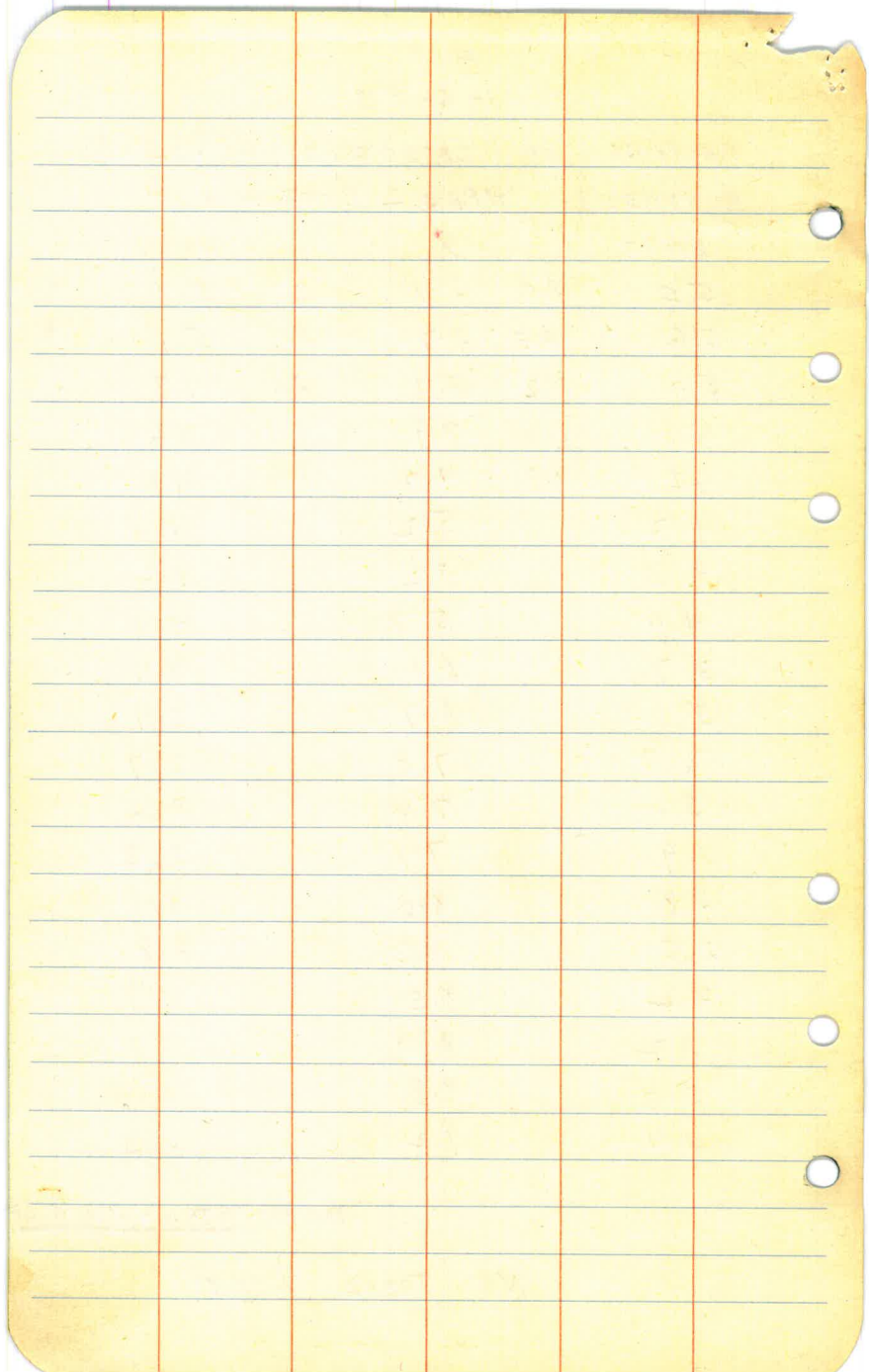
1-6-53

CHIPPING OF DEFECTIVE JOINTS @
BUTTRESS HEAD - BOTTOM → UP

EAST		WEST		WEST
5.5	2.0	2.4	2.0	5.4
5.6	2.5	2.7	2.1	5.4
5.0	2.2	3.4	2.1	4.8
4.6	1.5	3.9	1.9	4.6
4.6	1.7	4.2	1.6	4.6
4.2		5.2		4.6
4.3		5.2		4.6
4.0		5.7		4.4
3.7		6.1		4.4
3.3		6.7		3.9
3.3		7.0		3.7
3.1		7.4		3.6
2.9		7.7		3.3
2.8		8.0		3.1
2.5		8.3		2.8
2.2		8.5		2.8
2.2		8.9		2.7
2.0		8.8		2.4
2.4		9.2		2.3

ITEM #30 TOTAL = 280.5 LF

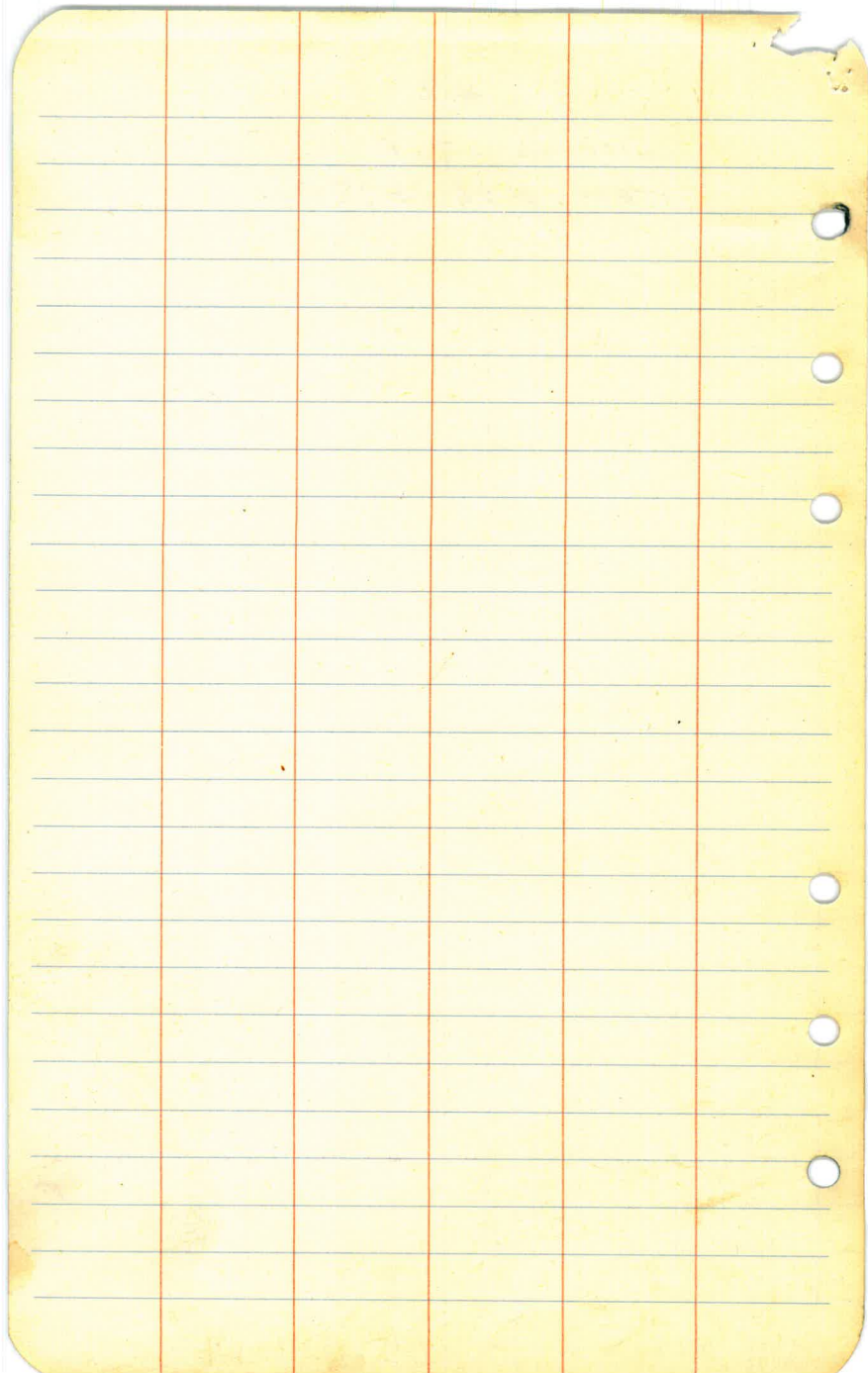
NO TACKS LEFT



#9

CHIPPING TOP

ITEM # 26 = 35.2



1-9-53

#10

CHIPPING OF DEFECTIVE

JOINTS		IN HEAD OF #10		
FROM	APPROX	ELEV	1933	(BOTTOM ON UP)
WEST		¢		EAST
5.45 ↓	1.90	3.65	1.80	3.90
5.80		4.75		4.45
4.85		4.85		4.20
4.30		5.50		4.25
4.40		5.85		4.10
4.30		6.10		3.80
4.00		6.40		3.45
3.70		7.00		3.30
3.55		7.35		3.05
3.50		7.25		3.05
3.20		7.85		2.85
3.00		8.35		2.60
2.75		8.50		2.50
2.60		9.05		2.10
2.45		9.15		2.15
2.45		9.25		2.05

TOTAL 226.65 LF

ITEM #30

CHIPPING TIP ITEM 26 = 35.2 SY

1-27-53

CHIPPING 10" ARCH KEYWAY

$$2(69.3) \cdot 83 = \underline{115 \text{ SF}}$$

#11

CHIPPING TOP

ITEM # 26 = 35.2 SY

CHIPPING JOINTS ON BUTTRESS W.

1-22-53

FROM (BOTT) TO TOP
(+1952)

↓ 3.4 W	3.3	3.8
5.8 c	7.7	2.8
3.9 E	2.4	2.9
3.7 W	2.6	8.2
5.7 c	7.7	2.8
3.7 E	2.5	3.0
6.2	3.0	8.1
3.8	8.1	2.9
4.0	2.9	2.9
6.3	2.9	8.0
3.5	8.1	2.9
6.6	2.8	
3.4	2.9	
3.3	7.9	
6.9	3.0	
3.4	3.1	
3.5	8.3	
7.3	2.8	
3.0	3.1	

ITEM #30 227.8 LF

1-27-53

CHIPPING 10" ARCH KEYWAY

$$2(69.3) \cdot 83 = \underline{115.0 SF}$$

12

CHIPPING TOP

ITEM #26 = 35.2 SF

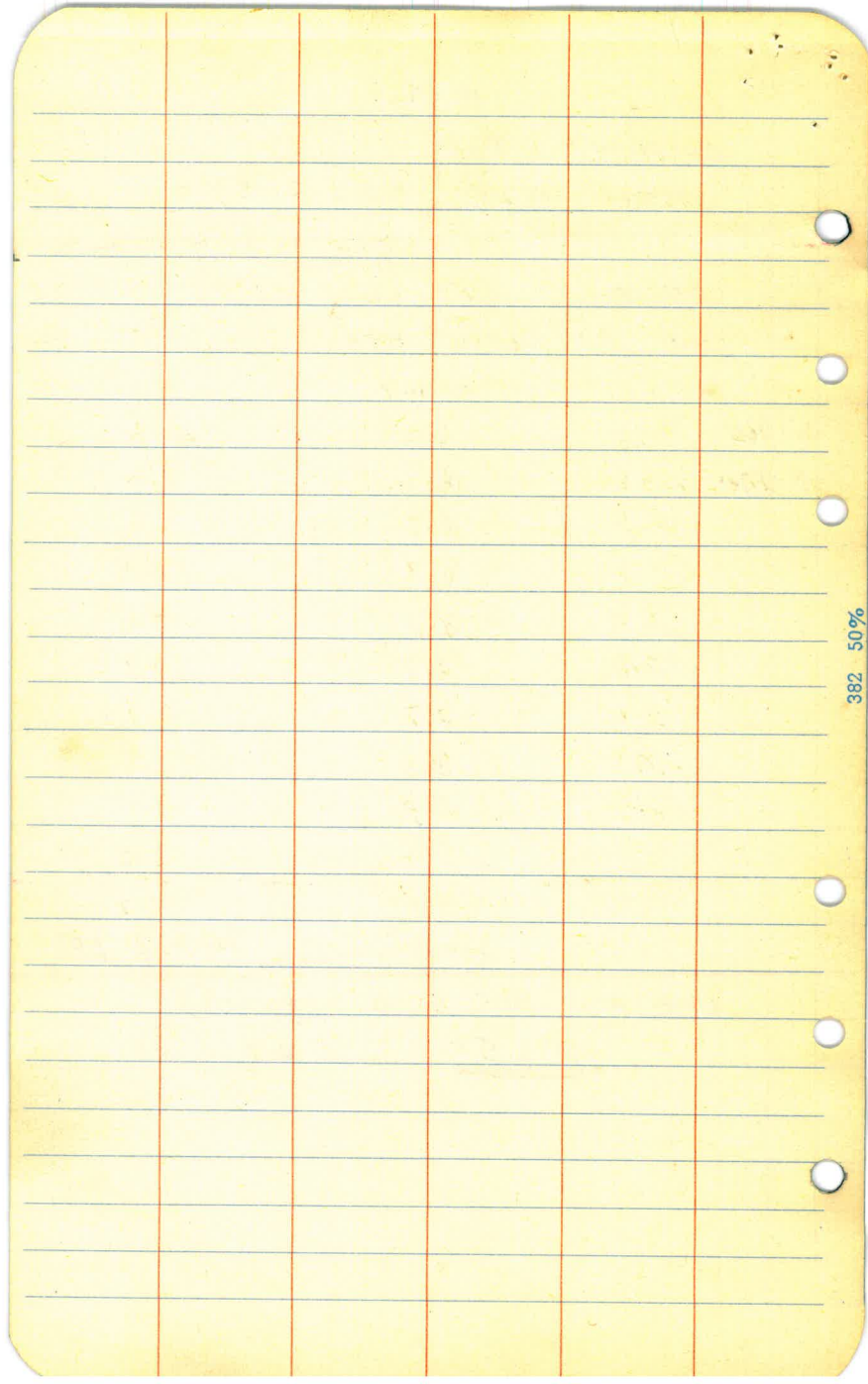
CHIPPING OUT DEFECTIVE JOINTS
IN BUTTRESS HEAD 1-13-52 RMS

	W	FRONT	E
+1964	4.5	6.2	3.6
+1970	3.2	6.3	4.0
	3.5	6.9	3.5
	3.2	6.3	2.5
	3.0	4.7	3.0
	2.8	7.3	2.8
	2.6	7.7	2.7
	2.5	8.5	2.8
	2.7	5.3	2.8
	2.5	5.3	3.5
	3.5	8.9	2.2

ITEM #30 TOTAL 140.8 LF

CHIPPING 10" ARCH KEYWAY

115.0 SF 1-27-53



382 50%

13

CHIPPING TOP

ITEM # 26 = 35.2 SY

CHIPPING OUT DEFECTIVE JOINTS IN
HEADS 1-13-53 HRS

	W	FRONT	E
+1982	3.3	6.9	3.3
+1988	3.5	6.4	3.0
	3.0	5.5	3.1
	2.8	7.9	2.9
	2.8	7.9	2.8
	2.2	8.2	2.8
	2.4	6.6	2.8
	2.4	8.8	2.3
+2024	2.3	9.1	1.4

ITEM #30 TOTAL

116.4 LF

1-25-53
#13

#24 + 1976 → 2030 = 76'

OVER ALL CHIPPINGS

E @ 2030 = 2.80 WIDE

1976 = 3.40 WIDE

AVG $\frac{6.20}{2} = 3.1$

W @ 2030 = 2.80 WIDE

1976 = 3.00 "

$\frac{5.80}{2} = 2.90$ AVER

$(76) \overset{23.56}{3.1} + 76 \overset{20.4}{(2.9)} = 456.0$ SF

10" KEYWAY 1981-2030 = 69.3'

EXTRA $2(69.3)(.83) = \underline{115.0}$ SF 10"

ITEM 24 $456.0 - 115.0 = \underline{341.0}$ SF (37.934)

#14
CHIPPING

ARCH KEYWAY

EAST

WEST

48 LF

48 LF

Vol PER FT = $(1.0 \times 4.2 \times 0.23) = .097 \text{ CF/LF}$

$(96 \times .097) = 9.31 \text{ CF}$ 1-13-53

OR AREA PER FT = $(1.0 \times .83) = .83 \text{ SF/LF}$

$(.83 \times 96) = 79.7 \text{ SF}$

10.84 LF = 1.59 YARD

EXTRA 79.7 SF

CHIPPING OUT DEFECTIVE JOINTS IN
EXISTING BUTTRESS HEAD 1-13-53
KRS

	W	FRONT	E
+1994	—	0.7	—
+2000	3.7	7.7	3.3
	2.8	7.9	3.0
	2.9	8.1	2.8
	2.8	7.4	2.9
	2.6	8.0	2.9

TOTAL
69.3 LF

ITEM #30

CHIPPING TOP #26

= 35.2 SF

69.3 LF

TOTAL

1-26-53
#14
CHIPPING SURFACE

(OVER ALL SURFACE)

+1996 + 2030

$$= 273.09 \text{ SF}$$

$$273.09 - 79.7 \text{ SF} = 193.4 \text{ SF}$$

ITEM #24 = 193.4 SF (21.5 SY)