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473

# KEUFFEL & ESSER CO.

DRAWING MATERIALS

SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

## TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.

FOR SINGLE TRACK EXCAVATION.

"Copyright, 1895, by Keuffel & Esser Co."

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

Calculated by Julian A. Hall, M. Am. Soc. C. E.

473

SPILLWAY-EXTENSION

R. E. BRACHMANN

EXCAVATION-INSPECTOR

5-8-1934 - 11/20/34

EXCAVATION  
AND  
CONCRETE

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5-8-1934-

SHIFT-NO 1- 1 PM TO 4 PM - 3 HRS

EQUIPMENT	LABOR
1-75-CAT-3HRS	1-CAT-OPERATOR
1-ROOTER-3HRS	EXCAVATING-BETWEEN STATIONS
	1100-1250

5-9-1934-SHIFT-NO 1

EQUIPMENT	LABOR
1-CARRIAL	1-FOREMAN
1-75-CAT	3-CAT-OPR = 7-21-HRS
1-70-CAT	2- " " "
1-ROOTER	1-WELDER
	700 YDS
	EXCAVATING-BET 1100-1250

RODENHAMER-AROUND-CAMP

LABOR -  
1-TRUCK-DRIVER  
1-MAN  
SPILLWAY-EXTENSION-EXCAVATION  
SHIFT-NO 1- 5-10-1934- 4-11 AM

EQUIPMENT	LABOR
1-75-CAT	3-CAT-OPERATOR
1-CARRIAL	2-MEN-7-HRS
1-BULLDOZER-1-HR	1-FOREMAN

SHIFT-NO 2- 5-10-1934- 12-7 PM

EQUIPMENT	LABOR
1-75-CAT	2-CAT-OPR
1-CARRIAL	1-MECHANIC
	1-HELPER

SPILLWAY-EXTENSION-  
BET-STA-11-14+00

SHIFT-NO1-5-11-34-KNAPP-4-11AM

1-75-CAT 1-FOREMAN  
1-70-CAT 2-CAT-OPERATORS  
1-BULLDOZER 1-LABORER  
1-CARRYALL (500YDS) 1-MECHANIC  
1-ROOTER 1-HELPER  
WORKING-FOR-BODENHAMER  
1-LABORER-8  
1-LABORER-4  
1-TRUCK-DRIVER

FINISHING-SOUTH-SLOPE-BET-STA-11+40-12+25

SHIFT-NO.2-5-11-34 STA-11+0-12+50

1-75-CAT 1-FOREMAN  
1-CARRYALL (500YDS)  
1-BULLDOZER 2-CAT-OPRS  
1-ROOTER

KNAPP-STA-10+014  
SHIFT-NO1-5-12-34-4<sup>30</sup>AM to 11<sup>30</sup>AM

1-75-CAT 1-FOREMAN  
1-70-CAT 3-CAT-OPERATORS  
1-CARRYALL (500YDS) 1-LAB-ON-SLOPE  
1-ROOTER 1-LAB-AT-CAMP-4H

5-12-34  
SHIFT NO-1-BODENHAMER  
2-LABORERS-8HRS  
SLOPING STA-11-12  
1-TRUCK-DRIVER 8-HRS  
1-MECHANIC 8-HRS

SHIFT-NO2-5-12-34-KNAPP  
12<sup>30</sup>AM to 7 P.M.

EXCAVATION-BET-10-15

1-75-CAT 1-CAT-OPERATOR-7-H  
1-CAT-4 4-H  
1-70-CAT-4-H 1-FOREMAN  
1-CARRYALL (500YDS)  
1-ROOTER-4-HRS

4<sup>30</sup>AM-11<sup>30</sup>AM

SHIFT-NO1-MAY-14<sup>TH</sup> 1934-KNAPP

2-75-CATS 4-CAT-DRIVERS  
1-CARRYALLS-6  
1-CARRYALL-6HRS NORTH-SL-11+20  
(500YDS) 1-LAB-HAND-SLOPE-11+60  
(400YDS) 1-LAB-ON-LIGHT-POLES

MAY-14-34-SHIFT-NO1-

SHIFT-NO1 BODENHAMER  
2-LABORERS-HAND-SLOPING-BET-12-12+50  
3-LAB-AROUND-CAMP NORTH SLOPE  
BET-12-12+50-3-HR  
8AM-3<sup>30</sup> P.M.

5-14-34

KNAPP SHIFT NO2-12<sup>30</sup>AM to 7 P.M.  
1-FOREMAN

2-75-CATS 2-CAT-OPR  
1-ROOTER-3.5  
1-CARRYALL-7-H (740YDS)  
1-CARRYALL-3.0-HRS

5-15-34 2-75-CATS 1-FOREMAN  
SHIFT  
NO 1 - 1-CARRYALLS - 3-CAT-OPERATORS  
KNAPP 1-CARRYALL - OFF - 5 HRS  
1-ROOTER - 2-HO  
2-LABORERS - ON - ELECTRIC-LIGHTS  
1-LABORERS - SLOPING - BET - STA. 11-12  
NORTH-SLOPE (800 YDS) ✓

BODENHAMER  
5-15-34  
SHIFT-1 2-LABORERS - WORKING-AROUND-CAMP  
2-LABORER - SLOPING-NORTH-SIDE 11-12  
1-MAN-IN-OFFICE ✓

KNAPP  
SHIFT  
NO-2  
5-15-34 2-75-CATS 1-FOREMAN  
3-CAT-OPERATORS  
1-CARRYALL 2-LABORER S-REP  
1-ROOTER - 1.5-HRS  
1-CARRYALL - 4.5 HRS.  
1-BULLDOZER - 1-HRS. (800 YDS) ✓

3  
KNAPP 2-75-CATS 3-CAT-OPERATORS  
SHIFT-1 1-BULLDOZER 1-FOREMAN  
5-16-34 1-ROOTER - 3.5 HRS - LAB-ON-LIGHT-POLES 2-H  
3- " " NORTH-SLOPE - 5-H  
4<sup>30</sup> a.m. 2-CARRYALLS 1-LAB-ON-SLOPE 7-HRS.  
TO  
11<sup>30</sup> a.m. (12-15) 1-BLACK-SMITH - 4-DAYS.

BODENHAMER 2-LABORERS-IN-CAMP  
SHIFT-NO 1 2-LAB-SLOPING-BET-STA 11-12  
1-MAN-IN-OFFICE  
1-ELECTRICIAN ✓

KNAPP 3-CATS 1-FOREMAN  
SHIFT-2 2-CARRYALL 3-CAT-OPERATORS  
5-16-34 1-BULLDOZER 12-16 STA.  
11-M. 1-ROOTER - 3-HRS.  
TO  
7.P.M. (1008 YDS)  
STA-13725-NORTH-SIDE-CHECK ✓

KNAPP 2-75-CATS. 1-FOREMAN  
SHIFT 2-CARRYALLS 3-CAT-OPERATORS.  
NO 1  
5-17-34 1-BULLDOZER-2-1-LABORER-SLOPING  
4<sup>30</sup> TO 11<sup>30</sup> 1-ROOTER-IN-9<sup>AM</sup> 2-LAB-IN-ELECT-LIGHTS  
STA-10-15 1-ELECTRICIAN

980 CU. YDS ✓

BODENHAMER 1-FORD-TRUCK-2-LAB-IN-CAMP  
SHIFT NO 1  
5-17-34 2-LAB-SLOPING  
7<sup>AM</sup> TO 2<sup>30</sup> PM

KNAPP 2-75-CATS 1-FOREMAN  
SHIFT 2-CARRYALLS 3-CAT-OPERATORS  
NO 2  
5-17-34 1-BULLDOZER  
12M-7PM 1-ROOTER

980 XDS ✓

KNAPP 1-BULLDOZER-1-OPERATOR  
SHIFT ON-WASTE-DUMP.  
NO. 3- 1-FOREMAN ✓  
5-17-34  
8-PM-3AM STA-9+50. ELEV. CONCRETE 7623.4  
GROUND = 695.4  
623  
12.0

53-LOADS-4 HRS

4

KNAPP 2-75-CATS 1-FOREMAN  
SHIFT 1-BULLDOZER 1-ELECTRICIAN  
NO 1 3-CAT-OPERATORS  
2-CARRYALLS 3-LABORERS-ON-LIGHTS  
5-18-34 1-ROOTER 1-LABORER-SLOPING  
4AM-11AM EXCAVATING-BET-STA-9+00-12+00

980 CU. YDS. ✓

BODENHAMER  
SHIFT-NO 1 1-LAB-SLOPING  
5-18-34 3-LAB-IN-CAMP  
7AM-2<sup>30</sup> PM 1-MAN-IN-OFFICE

KNAPP 2-75-CATS 1-FOREMAN  
SHIFT-NO 2 2-CARRYALLS 3-CAT-OPERATORS  
5-18-34 1-BULLDOZER  
12M-7PM 1-ROOTER

1000 CU. YDS ✓

KNAPP 5-26-34- 2800 CU. YDS.  
402-LOADS  
SHIFT 1ST-126-LOADS  
NO-3 2ND 134 " " " " " "  
5-18-34 3<sup>RD</sup> 143 " " " " " "  
8AM-3AM 402-LOADS  
REPORTED-BY-HILL. ✓

KNAPP 2-75-CATS 1-FOREMAN.  
SHIFT  
NO 1 2-CARRYALLS 3-CAT-OPERATORS  
5-28-34  
4 TO 11 AM 1-BULLDOZER 1-LAB. HAND-SLOPING  
1-ROOTER 140-LOADS. 980 CU. YDS  
WORKING-BET-STA-8+40-10+00 ✓

BODENHAMER. - 2-MEN-HAND-SLOPING  
SHIFT - 3-LAB-IN-CAMP  
NO 1  
7 AM - 3 PM.

KNAPP  
5-27-34-12 HRS  
1-WATCHMAN ✓

KNAPP 2-75-CATS 1-FOREMAN  
SHIFT- 2-CARRYALLS 3-CAT-OPERATORS  
NO 2  
5-28-34 1-BULLDOZER  
12-7 PM. 1-ROOTER 114-LOADS 795 CU. YDS  
BET-8+40-10+00 ✓

KNAPP 2-75-CATS 1-FOREMAN  
SHIFT  
NO-3- 2-CARRYALLS 3-CAT-OPERATORS  
5-28-34  
8 PM-3 AM  
1-BULLDOZER 182-LOADS-1100 CU. YDS.  
1-ROOTER  
STA- 11+60-10+25 ✓

KNAPP 2-75-CATS 1-FOREMAN  
SHIFT- 2-CARRYALLS 3-CAT OPERATORS.  
NO 1- 1-BULLDOZER 1-LAB-SLOPING  
1-LAB-ON-LIGHTS.  
5-29-34 1-ROOTER  
4-11 AM. STATIONS- 8+40-15+25  
175-LOADS 1000 CU. YDS. ✓

BODENHAMER- 2-LAB-SLOPING  
5-29-34 3-LAB-IN-CAMP.  
7 AM-3 PM. ✓

KNAPP 2-75-CATS. 1-FOREMAN  
SHIFT-2  
5-29-34 2-CARRYALLS. 3-CAT-OPERATORS.  
12M-TO 7 PM. 1-BULLDOZER 146-LOADS-880 CU. YDS  
1-ROOTER. ✓

KNAPP 2-75-CATS 1-FOREMAN  
SHIFT-3  
5-29-34 2-CARRYALLS 3-CAT OPERATORS.  
8 PM-3 AM.  
1-BULLDOZER 130-LOADS-780 CU. YDS. ✓  
1-ROOTER  
5-30-34 1-WATCHMAN-9 H.R.S. DAY  
5-30-34 1- " 7-H.R.S. NIGHT

TOTAL-2660 CU. YDS

KNAPP 2-75-CATS 1-FOREMAN  
 SHIFT  
 NO 1 2-CARRYALLS 3-CAT-OPERATORS  
 5-31-34  
 4-TO-11AM 1-BULLDOZER 1-LAB-SLOPING - 2-HRS  
 1-DRILLER  
 1-DRILLER - 5-HRS.  
 1-LAB-ON-REPAIR 3-HR.  
 STA-8+40-15+00  
 1-AIR-COMPR-5.HR. (150 LOADS 900 CU.YDS.)

BODENHAMER-2-LAB-SLOPING  
 SHIFT-1  
 5-31-34 3-LAB. IN-CAMP ✓  
 7<sup>30</sup> TO 3PM.

KNAPP 2-75-CATS 1-FOREMAN  
 SHIFT  
 NO 2 2-CARRYALLS 3-CAT-OPERATORS  
 5-31-34  
 12M TO 7PM 1-BULLDOZER (186 LOADS-1116 CU.YDS)  
 1-ROOTER ✓  
 BETWEEN-11+00-15+25

KNAPP 2-75-CATS 1-FOREMAN  
 SHIFT  
 NO 3 2-CARRYALLS 3-CAT-OPERATORS  
 5-31-34  
 8PM-3AM 1-BULLDOZER 1-DRILLER.  
 1-AIR-COMPR  
 1-ROOTER (148-LOADS-988-CU.YDS.)  
 POWDER-ON-HAN-100 LBS-40%  
 100 LBS-60%  
 500'-FUSE 2904-CU.YDS. ✓

KNAPP 1-75-CAT-3HRS 1-FOREMAN  
 SHIFT 1-75-CAT  
 NO 1 1-CARRYALL-3HR. 3-CAT-OPERATORS.  
 6-1-34 1-CARRYALL  
 4AM-11AM 1-BULLDOZER 1-LABORER-  
 1-DRILLER.  
 1-AIR-COMPR, 1-LAB-SLOPING  
 STATIONS-8+40-10+00  
 (114-LOADS-684 CU.YDS.)

BODENHAMER-2-LAB-SLOPING  
 6-1-34  
 7<sup>30</sup> TO 3PM. 3-LAB-IN-CAMP ✓

KNAPP 1-75-CAT 1-FOREMAN  
 SHIFT  
 NO 2 1-CARRYALL 3-CAT OPERATORS  
 6-1-34  
 12-7PM 1-BULLDOZER 1-WELDER.  
 (81-LOADS 486-CU.YDS.)  
 BETWEEN-STA-11+40-15+00

KNAPP 2-75-CATS 1-FOREMAN  
 SHIFT  
 NO 3 2-CARRYALLS 3-CAT-OPERATORS  
 6-1-34  
 8PM-3AM 1-BULLDOZER 1-DRILLER 684  
 1-ROOTER 1-HELPER 486  
 (134-LOADS-804 CU.YDS) 804  
 (1974 TOTAL CU.YDS.)



KNAPP 2-75-CATS 1-FOREMAN  
SHIFT  
NO 1 2-CARRYALLS 3-CAT-OPERATORS-5HR  
6-2-34  
4 TO 9 A.M. 1-BULLDOZER 1-DRILLER - 5 HRS.  
1-ROOTER 1-LAB-SLOPING 5 HRS.  
1-HELPER 7 HRS.  
WORKING-BETWEEN-STA-12400-15400  
126 LOADS 736 CU. YDS.

BODENHAMER 2-LABORERS-SLOPING - 7 HRS.  
6-2-34  
7<sup>30</sup> TO 3 P.M. 3-LABORERS-IN-CAMP

KNAPP 2-75-CATS 1-FOREMAN  
SHIFT  
NO 2 2-CARRYALLS 3-CAT-OPERATORS  
6-2-34  
9-2 P.M. 1-BULLDOZER 122-LOADS 732 CU. YDS.

KNAPP 2-75-CATS 1-FOREMAN  
SHIFT  
NO 3 2-CARRYALLS 3-CAT-OPERATORS  
6-2-34 1-DRILLER  
2<sup>30</sup> TO 7<sup>30</sup> P.M. 1-BULLDOZER 1-HELPER  
745  
730  
750  
1208  
120 LOADS 720 CU. YDS.  
2208-TOTAL

138713 KNAPP-2-CAT-OPERATORS 6-3-34=5 HRS-EACH REPAIRS. 7  
KNAPP 2-75-CATS 1-FOREMAN  
SHIFT  
NO 1 2-CARRYALLS 3-CAT OPERATORS  
6-4-34  
4 TO 11 A.M. 1-BULLDOZER 1-DRILLER  
1-HELPER  
1-ROOTER 1-LAB-SLOPING  
1-AIR-COMPR  
BET-STATIONS 8740 & 15750

148-LOADS=888 CU. YDS.

BODENHAMER - 1-LAB-SLOPING  
- 3-LAB-IN-CAMP.

KNAPP 2-75-CATS 1-FOREMAN  
SHIFT  
NO 2 2-CARRYALL 3-CAT-OPERATORS  
6-4-34  
12-TO 7 P.M. 1-BULLDOZER  
1-ROOTER 118-LOADS-708 CU. YDS.

KNAPP 2-75-CATS 1-FOREMAN  
SHIFT  
NO 3 2-CARRYALL 3-CAT OPERATORS  
6-4-34  
8 TO 3 A.M. 1-BULLDOZER-1-DRILLER  
1-HELPER  
705  
640  
1030  
106 LOADS 640 CU. YDS  
2236-TOTAL

STATIONS-11400-15750  
KNAPP 2-75-CATS 1-FOREMAN  
SHIFT  
NO 1 2-CARRYALLS 3-CAT-OPERATORS  
6-5-34  
4 TO 11 A.M. 1-BULLDOZER 1-DRILLER

1-ROOTER 1-POWDER-MAN

1-AIR-COMPR 1-LAB-SLOPING

153-LOADS 900 CU. YDS. 1-DRILLER-3.5 HRS ✓

BODENHAMER 2-LAB-SLOPING  
6-5-34

7<sup>30</sup> TO 3 P.M. 3-LAB-IN-CAMP. 3 HRS. ✓

KNAPP 2-75-CATS 1-FOREMAN  
SHIFT  
NO 2 2-CARRYALLS 3-CAT-OPERATORS  
6-5-34  
12-7 P.M. 1-BULLDOZER

1-ROOTER 157-LOADS-900 CU. YDS ✓

~~KNAPP 2-75-CATS 1-FOREMAN  
SHIFT  
NO 3 2-CARRYALLS 3-CAT-OPERATORS  
6-5-34  
9 P.M.-3 A.M. 1-BULLDOZER 1-DRILLER~~

~~1-ROOTER 1-HELPER~~

~~1-AIR-COMPR~~

~~NO-WORK~~

1800 CU. YDS

8  
STATIONS-8440-15725  
KNAPP 2-75-CATS 1-FOREMAN  
SHIFT  
NO 1 2-CARRYALLS 3-CAT-OPERATORS  
6-6-34  
4 TO 11 A.M. 1-BULLDOZER 2-DRILLERS

1-ROOTER 1-POWDER-MAN

1-AIR-COMPR 4-LAB-SLOPING

168 LOADS-1008 CU. YDS. ✓

BODENHAMER 1-LAB-IN-CAMP  
1-LAB-3-HRS.  
2-LAB-SLOPING ✓

KNAPP 2-75-CATS 1-FOREMAN  
SHIFT  
NO 2 2-CARRYALLS 3-CAT-OPERATORS  
6-6-34  
12-7 P.M. 1-BULLDOZER 146 LOADS 876 CU. YDS

1-ROOTER ✓

KNAPP 2-75-CATS 1-FOREMAN  
NO-3  
6-6-34 2-CARRYALLS 3-CAT-OPERATORS  
9 P.M.-3 A.M. 1-BULLDOZER 1-LAB-SLOPING

1-ROOTER 125-LOADS 750 CU. YDS ✓

2634 CU. YDS ✓

## STATIONS 8+40-1500

KNAPP 2-75-CATS 1-FOREMAN  
SHIFTNO 1 2-CARRYALLS 3-CAT-OPERATORS  
6-7-34

4 TO 11 AM. 1-BULLDOZER 1-POWDER-MAN

1-ROOTER 2-DRILLERS

1-AIR-COMPR 3-LAB-SLOPING  
1-LAB-HELPING

BLACKSMITH

(140-LOADS 95<sup>2</sup>) ✓

BODENHAMER 1-LAB-IN-CAMP

6-7-34

7<sup>30</sup> TO 3 PM. 2-LAB-SLOPING ✓

KNAPP

SHIFT 1-75-CAT-5.5 1-FOREMAN

NO 2  
6-7-34 1-70-CAT-4.0H 3-CAT-OPERATORS

12 TO 7 PM. 1-CARRYALL 3.5 1-MECHANIC

1-CARRYALL-4.0H. (105-LOADS 71.5<sup>2</sup>) ✓

KNAPP 2-75-CATS 1-FOREMAN

SHIFT  
NO 3 2-CARRYALLS 3-CAT-OPERATORS6-7-34  
8 PM TO 3 AM. 1-ROOTER 1-LAB-SLOPING

1-BULLDOZER (119-LOADS 809 CU. YDS)

2476 CU. YDS. ✓

## STATIONS 8+40-1500

9

KNAPP 1-75-CAT 1-FOREMAN

1-75-CAT-8-H

NO 1 1-CARRYALL 3-CAT OPERATORS

1-CARRYALL-5H

6-8-34 1-BULLDOZER 2-DRILLERS

4-11 AM. 1-ROOTER 1-POWDER-MAN

1-AIR-COMPR 2-LAB-SLOPING

1-MECHANIC

(132-LOADS - 897 CU. YDS) ✓

BODENHAMER 2-LAB-SLOPING

6-8-34

7<sup>30</sup> TO 3<sup>30</sup> 1-LAB-IN-CAMP.

KNAPP 2-75-CATS 1-FOREMAN

NO 2 1-CARRYALL-2H 3-CAT OPERATORS

6-8-34 1-CARRYALL " 1-WELDER

12-7 PM. 1-BULLDOZER (90-LOADS-612 CU. YDS) ✓

1-ROOTER

KNAPP 1-75-CAT 1-FOREMAN

1-75-CAT-5

NO 3 1-CARRYALLS 3-CAT OPERATORS

1-CARRYALL-5

6-8-34 1-BULLDOZER 2-DRILLERS

1-AIR-COMPR

8 PM - 3 AM. 1-ROOTER 1-LAB-SLOPING

(101-LOADS 687 CU. YDS) ✓

(2196 CU. YDS) ✓

STA-9+00-15750

KNAPP 1-75-CAT 1-FOREMAN

NO 1 3-CAT-OPERATORS

6-9-34 1-AIR-COMPRESSOR 1-POWDER-MAN

4 TO 9 AM 1-CARRYALL 2-DRILLERS

1-BULLDOZER 1-WELDER

1-ROOTER 2-LAB-SLOPING

58 LOADS 394 CU. YDS ✓

BODENHAMER - 2 LAB-SLOPING

6-9-34

7:30 TO 3 PM 2-LAB-IN-CAMP ✓

KNAPP 1-75-CAT 1-FOREMAN

NO 2 1-CARRYALL 3-CAT-OPERATORS

6-9-34 1-BULLDOZER-OF 1-WELDER

9 TO 2 PM 1-ROOTER

1-CARRYALL-3-H 90-LOADS-612 CU. YDS ✓

KNAPP 2-75-CAT 1-FOREMAN

NO 3 2-CARRYALLS 3-CAT-OPERATORS

6-9-34 1-BULLDOZER 2-DRILLERS

1 TO 10 PM 1-AIR-COMPR 1-LAB-SLOPING

2080 CU. YDS 158 LOADS 1074 YDS ✓

1589713

6-9-34-1-NIGHT-WATCH-8-HRS

6-10-34-1 " " 8-HRS.

KNAPP 2-75-CATS 1-FOREMAN

NO 1 2-CARRYALLS 3-CAT-OPERATORS

6-11-34 1-BULLDOZER 1-POWDER-MAN

4 TO 11 AM 1-ROOTER 2-DRILLERS

1-AIR-COMPR 1-LAB-SLOPING

160-LOADS-1088 CU. YDS ✓

STA-8+40-11+00 +

BODENHAMER - 2 LAB-SLOPING

7:30 TO 3:30 PM 3-LAB-REP-EQUIPMENT ✓

KNAPP 2-75-CATS 1-FOREMAN

NO 2 1-CARRYALL 3-CAT-OPERATORS

1-CARRYALL-6

6-11-34 1-BULLDOZER-6H

1:30 TO 7 PM 1-ROOTER

132-LOADS-897 CU. YDS ✓

KNAPP 2-75-CATS 1-FOREMAN

NO 3 1-CARRYALLS 2-CAT-OPERATORS

6-11-34 1-CARRYALL-2 2-DRILLERS

8 PM TO 3 AM 1-ROOTER 1-LAB-SLOPING

1-CAT-OPERATOR-REP-6H

1-AIR-COMPR. 90-LOADS 612 CU. YDS

2597 CU. YDS

STA-8440-15725

KNAPP 2-75-CATS 1-FOREMAN  
 NO 1 1-CARRYALL 2-CAT-OPERATORS  
 6-12-34 1-AIR-COMPR 1-POWDER MAN  
 4-11AM 1-CARRYALL 1-DRILLERS  
 1-LAB-SLOPING

130 LOADS 884 CU YDS ✓

BODENHAMER 2-LAB-SLOPING  
 6-12-34  
 7<sup>30</sup>-03<sup>30</sup> 2-LAB-IN-CAMP ✓

KNAPP 2-75-CATS 1-FOREMAN  
 NO 2 1-CARRYALL 4-CAT OPERATORS  
 6-12-34 1-CARRYALL 3.HRS. 2-LAB-IN-REPAIRS  
 12-7PM. ROOTER 4 HRS

105 LOADS 714 CU YDS ✓

KNAPP 2-75-CATS 1-FOREMAN  
 NO 3 2-CARRYALL 3-CAT-OPERATORS  
 6-12-34 1-BULLDOZER  
 8PM TO 3AM 1-ROOTER 3-LAB-SLOPING

130 LOADS 884 CU YDS ✓

2492 CU YDS

STA 8440-15725

POWDER REED 11

KNAPP 2-75-CATS 1-FOREMAN  
 NO 1 2-CARRYALLS 3-CAT OPERATORS  
 6-13-34 1-BULLDOZER 1-POWDER MAN  
 4-11AM 1-AIR-COMPR 2-DRILLERS  
 2-LAB-SLOPING

170 LOADS 1156 CU YDS ✓

BODENHAMER 2-LAB-SLOPING  
 7<sup>30</sup>-3<sup>30</sup> 2-LAB-IN-CAMP ✓

KNAPP 2-75-CATS 1-FOREMAN  
 NO 2 1-CARRYALLS 3-CAT OPERATORS  
 1-CARRYALL 2.5H.  
 6-13-34 1-BULLDOZER-2.5 HRS.  
 12-7PM 1-ROOTER

125 LOADS 830 CU YDS ✓

KNAPP 2-75-CATS 1-FOREMAN  
 NO 3 2-CARRYALLS 3-CAT OPERATORS  
 6-13-34 1-AIR-COMPR 2-DRILLERS  
 8-3AM 1 1-LAB-SLOPING

2890 CU YDS ✓

130 LOADS 884 CU YDS ✓

DRILLING AT 8+00

STA 8+00-15-25

KNAPP 1-75-CAT 1-FOREMAN  
 1-75-CAT 2.5  
 NO 1 1-CARRYALL 3-CAT OPERATORS  
 1-CARRYALL-2.5H  
 6-14-34 1-BULLDOZER 1-POWDER MAN  
 4 TO 11 A.M. 1-AIR-COMPR 2-DRILLERS  
 2-LAB-SLOPING ✓

100 LOADS 680 CU. YDS

3 BODENHAMER 2-LAB-SLOPING  
 6-14-34 2-LAB IN-CAMP.

7<sup>30</sup> TO 3<sup>30</sup>

KNAPP 1-75-CAT 1-FOREMAN  
 NO 2 1-70-CAT 2-CAT-OPERATORS  
 6-14-34 1-CARRYALL 3-H 1-4 4 2HR  
 1-CARRYALL 90-LOADS-612 CU. YDS

KNAPP 1-75-CAT 1-FOREMAN  
 3-CAT-OPR  
 NO 3 1-75-CAT 6 HRS 2-DRILLERS  
 6-14-34 1-CARRYALL 1-LAB-SLOPING

8 8 P.M. TO 3 A.M. 1-CARRYALL 6-HRS 130-LOADS-884 CU. YDS  
 1-BULLDOZER  
 1-ROOTER  
 1-AIR-COMPR 2176 CU. YDS

STA-8+00+15+25

KNAPP 2-75-CATS 1-FOREMAN  
 NO 1 2-CARRYALLS 3-CAT OPERATORS  
 6-15-34 1-BULLDOZER 1-POWDER MAN  
 4 AM-11 AM 1-ROOTER 2-DRILLERS  
 1-AIR-COMPR 3-LAB-SLOPING

180-LOADS 1224 CU. YDS

BODENHAMER 2-LAB-SLOPING  
 7<sup>30</sup> TO 3<sup>30</sup> 1-LAB IN CAMP. ✓

KNAPP 2-75-CATS 1-FOREMAN  
 NO 2 2-CARRYALLS 3-CAT OPERATORS  
 6-15-34 1-BULLDOZER 140 LOADS 962 CU. YDS

12 M TO 7 P.M.

KNAPP 1-75-CATS 1-FOREMAN  
 1-75-CAT-2  
 NO 3 2-CARRYALLS 3-CAT-OPERATORS  
 6-15-34 1-BULLDOZER 2-DRILLERS

8 P.M.-3 A.M. 1-AIR-COMPR 1-LABORER  
 130 LOADS-884 CU. YDS  
 306 CU. YDS

STA-7+40-15725-

KNAPP 1-75-CAT 1-FOREMAN

6-16-34 1-BULLDOZER 3-CAT-OPERATORS

6 NO1- 1-CARRYALL 2-LAB-SLOPING

1-CARRYALL-4-H

4 4 TO 9 A.M. 1-AIR-COMPR 1-LAB-ON-REPAIRS

1-ROOTER

2-DRILLERS

1-POWDER-MAN

90 LOADS 612 CU. YDS

3 6 BODENHAMER 2-LAB-SLOPING

6-16-34 2-LAB-IN-CAMP

30 30  
7-12 M.

KNAPP 1-75-CAT 1-FOREMAN

NO 2 1-BULLDOZER 3-CAT OPERATORS

6 6-16-34 1-CARRYALL 50 LOADS 340 CU. YDS

18 9 TO 2 P.M. 1-ROOTER

KNAPP 1-75-CAT 1-FOREMAN

NO 3 1-CAT-OPERATORS

6 6-16-34 1-BULLDOZER 2-DRILLERS

8 9<sup>30</sup> TO 7<sup>30</sup> P.M. 1-ROOTER 1-LABORER

1-AIR-COMPR

952 CU. YDS

1889718

WATCHMAN

6-16-34-12 HRS

6-17-34-8 HRS

KNAPP 2-75-CATS 1-FOREMAN

NO 1 2-CARRYALLS 3-CAT-OPERATORS

6-18-34 1-BULLDOZER 1-WELDER-KNAPP-CAR

2-LAB-SLOPING

4 TO 11 A.M. 1-AIR-COMPR

ON-ROAD-7 TO 11<sup>20</sup> 4H

" SPILLWAY-3-H

2-DRILLERS 4-HRS-ON-ROAD

3-HRS-ON-SPILLWAY

1-POWDER-MAN 5-H-ON-ROAD

2-H-SPILLWAY

160 LOADS 1088 CU. YDS

BODENHAMER 2-LAB-SLOPING

NO 1

6-18-34 1-LAB-IN-CAMP

KNAPP 1-75-CAT 1-FOREMAN

NO 2 1-75-CAT 3-CAT-OPERATORS

6-18-34 1-CARRYALL 140 LOADS 952 CU. YDS

10 M-7 P.M. 1-CARRYALL

1-BULLDOZER

1-ROOTER

KNAPP 2-75-CATS 1-FOREMAN

NO 3 2-CARRYALLS 3-CAT OPERATORS

6-18-34 1-BULLDOZER 2-DRILLERS

1-AIR-COMPR.

8 P.M. TO 3 A.M. 1-ROOTER 1-LABORER

2924 CU. YDS

130 LOADS 884 CU. YDS

STA-7+40-15+25

KNAPP 2-75-CATS 1-FOREMAN  
 NO 1 2-CARRYALLS 3-CAT OPERATORS  
 1-WELDER-KNAPP-CAR  
 1-HELPER  
 6-19-34 1-BULLDOZER 1-POWDER-MAN  
 4 TO 11 A.M. 1-ROOTER 2-DRILLERS  
 1-AIR-COMPR 2-LAB-SLOPING

160-LOADS-1088 CU. YDS. ✓

3 6 BODENHAMER 2-LAB-SLOPING ✓

6-19-34 1-LAB-IN-CAMP

7<sup>30</sup> TO 3<sup>30</sup>

KNAPP 2-75-CATS 1-FOREMAN  
 NO 2 2-CARRYALLS 3-CAT OPERATORS  
 6-19-34 1-BULLDOZER 130-LOADS-884 CU. YDS. ✓  
 12 MT TO 7 P.M. 1-ROOTER

KNAPP 2-75-CATS 1-FOREMAN  
 NO 3 2-CARRYALLS 3-CAT OPERATORS  
 6-19-34 1-BULLDOZER 2-DRILLERS  
 1-ROOTER  
 8 P.M. TO 3 A.M. 1-AIR-COMPR. 1-LABORER.

2822 CU. YDS

135-LOADS-950 CU. YDS. ✓

STA-7+40-15+25

14

KNAPP 2-75-CATS 1-FOREMAN  
 NO 1 2-CARRYALLS 3-CAT OPERATORS  
 6-20-34 1-BULLDOZER 1-POWDER-MAN  
 4 TO 11 A.M. 1-ROOTER 2-DRILLERS  
 1-AIR-COMPR 2-LAB-SLOPING

150-LOADS-1000 CU. YDS. ✓

BODENHAMER 2-LAB-SLOPING

2-LAB-IN-CAMP.

KNAPP 2-75-CATS 1-FOREMAN  
 NO 2 2-CARRYALLS 3-CAT OPERATORS  
 6-20-34 1-BULLDOZER 1-SHOVEL OPERATOR  
 12 MT TO 7 P.M. 1-ROOTER 1-OILER ON SHOVEL  
 1-SHOVEL 130-LOADS-884 CU. YDS. ✓

KNAPP 2-75-CATS 1-FOREMAN  
 NO 3 2-CARRYALLS 3-CAT OPERATORS  
 6-20-34 1-BULLDOZER 2-DRILLERS  
 1-AIR-COMPR  
 8 P.M. - 3 A.M. 1-ROOTER 1-LABORER

2700 CU. YDS

120-LOADS-816 CU. YDS. ✓



STA-7+40-15750

KNAPP 2-75-CATS 1-FOREMAN  
 No 1 2-CARRYALLS 3-CAT-OPERATORS  
 3-TRUCKS 3-TRUCK-DRIVERS  
 6-21-34 1-BULLDOZER 1-POWDER-MAN  
 1-ROOTER 2-DRILLERS  
 4 TO 11 A.M. 1-AIR-COMPR 1-SHOVEL-OPERATOR  
 1-SHOVEL-8 A.M. 1-OILER-ON-SHOVEL  
 7:00-10:30  
 1-TRUCK-OFF-9 A.M. 2-LAB-SLOPING  
 1- " " 10:20 A.M. 1-LAB-ON-DUMP  
 29-LOADS-ON-TRUCKS 140-LOADS 952 CU.YDS  
 90-CU.YDS 90  
 1042 CU.YDS ✓

BOENHAMER 2-LAB-SLOPING  
 6-21-34  
 7:30-3:30 2-LAB-IN-CAMP ✓

KNAPP 2-75-CATS 1-FOREMAN  
 1-70-CAT  
 No 2 2-CARRYALLS 4-CAT OPERATORS  
 6-21-34 1-ROOTER 130-LOADS-880 CU.YDS ✓  
 12M-7PM

KNAPP 2-75-CATS 1-FOREMAN  
 1-70-CAT  
 No 3 1-ROOTER 3-CAT OPERATORS  
 1-AIR-COMPR  
 6-21-34 2-CARRYALLS 2-DRILLERS  
 8PM-3AM 1042 1-LABORER  
 890  
 880  
 2800 130-LOADS 880 CU.YDS ✓  
 CU.YDS

STA 7+40-15750

15

KNAPP 2-75-CATS 1-FOREMAN  
 2-CARRYALLS 3-CAT-OPERATORS  
 No 1 1-BULLDOZER 1-SHOVEL-OPERATOR  
 1-OILER  
 6-22-34 1-SHOVEL 3-TRUCK-DRIVERS  
 3-TRUCKS 1-POWDER-MAN  
 4 TO 11 A.M. 1-AIR-COMPR 2-DRILLERS  
 1-WELDER  
 1-LAB-ON-DUMP  
 TRUCK LOADS 180 = 450 CU.YDS 140 LOADS 950 CU.YDS  
 1400 CU.YDS ✓

BOENHAMER 2-LAB-SLOPING  
 6-22-34 3-LAB-IN-CAMP ✓  
 7:30-3:30

KNAPP 2-75-CATS 1-FOREMAN  
 2-CARRYALLS  
 No 1 1-BULLDOZER 3-CAT OPERATORS  
 1-SHOVEL 1-SHOVEL-OPERATOR  
 OFF 1-HR- 1-OILER  
 3-TRUCKS 1-LAB-ON-DUMP  
 12M TO 7PM 1-ROOTER 3-TRUCK-DRIVERS  
 TRUCK LOADS 1-LAB-SLOPING  
 77- = 193 CU.YDS 120 LOADS 816 CU.YDS  
 1009 CU.YDS ✓

KNAPP 2-75-CATS 1-FOREMAN  
 No 3 2-CARRYALLS 3-CAT OPERATORS  
 6-22-34 1-BULLDOZER 2-DRILLERS  
 8PM-3AM 1-AIR-COMPR 1-LABORER  
 3290 CU.YDS ✓ 130-LOADS 884 CU.YDS ✓

STA 7+40-15775

KNAPP 2-75-CATS 1-FOREMAN  
 1-SHOVEL 1-SHOVEL-OPERATOR  
 NO 1 2-CARRYALLS 3-CAT-OPERATORS  
 1-ROOTER 1-OILER  
 1-POWDER-MAN  
 6-23-34 1-BULLDOZER 1-WELDER  
 3-TRUCKS 2-DRILLERS  
 1-AIR-COMPR 2-LAB-SLOPING-7-HRS  
 4 TO 9 A.M. 1-LAB-ON-DUMP

TRUCK  
 LOADS  
 98 = 245 CU.YDS

100-LOADS 680 CU.YDS

92 CU.YDS  
 TOTAL

BODENHAMER 3-LAB-IN-CAMP

6-23-34 2-LAB-SLOPING

1 TRUCK-2-HRS.

KNAPP 2-75-CATS 1-FOREMAN  
 NO 2 2-CARRYALLS 3-CAT-OPERATORS  
 6-23-34 1-BULLDOZER 1-SHOVEL-OPERATOR  
 1-SHOVEL-4-HRS 1-OILER  
 9 TO 2 P.M. 3-TRUCKS 1-LAB-ON-DUMP  
 3-TRUCK-DRIVERS

TRUCK  
 LOADS  
 50 = 125 CU.YDS

90 LOADS = 612 CU.YDS

737 CU.YDS

KNAPP 2-75-CATS 1-FOREMAN  
 NO 3 2-CARRYALLS 3-CAT-OPERATORS

6-23-34 1-BULLDOZER 2-DRILLERS  
 1-AIR-COMPR

9<sup>30</sup> TO 7<sup>30</sup> 1-ROOTER 1-LABORER

2274 CU.YDS  
 TOTAL

90 LOADS = 612 CU.YDS

STA - 10+00-19+00

16

KNAPP 2-75-CATS 1-FOREMAN  
 2-CARRYALLS 3-CAT-OPERATORS  
 NO 1 1-BULLDOZER 1-SHOVEL-OPERATOR  
 1-ROOTER 1-OILER  
 6-25-34 1-SHOVEL-OPERATOR 2-TRUCK-DRIVERS  
 1-AIR-COMPR 1-POWDER-MAN  
 4 TO 11 A.M. 3-TRUCKS 2-DRILLERS  
 TRUCK LOADS 2-LAB-SLOPING  
 153.382 CU.YDS 1-WELDER  
 1-LAB-ON-DUMP

884  
 382

130-LOADS 884 CU.YDS

1266 CU.YDS  
 TOTAL

BODENHAMER 2-LAB-SLOPING

1-TRUCK

6-25-34 2-LAB-ASSEMBLING-BUNKERS

KNAPP 2-75-CATS 1-FOREMAN  
 2-CARRYALLS 3-CAT-OPERATORS  
 NO 2 1-BULLDOZER 1-SHOVEL-OPERATOR  
 1-ROOTER 1-OILER  
 6-25-34 1-SHOVEL 1-LAB-ON-DUMP  
 3-TRUCKS 3-TRUCK-DRIVERS  
 10 TO 7 P.M. TRUCK LOADS  
 200-LOADS 130-LOADS 884 CU.YDS  
 500-CU.YDS

1384 CU.YDS  
 TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
 1-70-CAT 3-CAT-OPERATORS  
 NO 3 2-CARRYALLS

6-25-34 1-ROOTER 2-DRILLERS

8 P.M. TO 3 A.M. 1-AIR-COMPR 1-LABORER

3166 CU.YDS  
 TOTAL

120-LOADS 816 CU.YDS

STA 7740 & 1900

KNAPP 2-75-CATS 1-FOREMAN  
 NO-1 1-70-CAT 3-CAT-OPERATORS  
 6-26-34 2-CARRYALLS 1-SHOVEL-OPERATOR  
 1-ROOTER 1-OILER  
 4-11-AM. 1-SHOVEL 1-WELDER  
 1-AIR-COMP 1-LAB-ON-DUMP  
 2-TRUCKS 2-LAB-SLOPING  
 1-TRUCK 1-POWDER-MAN  
 2-DRILLERS  
 3-TRUCK-DRIVERS  
 180-LOADS 918 CU.YDS

1368 CU.YDS  
 TOTAL

BODENHAMER 2-LAB-SLOPING

6-26-34

5-12<sup>30</sup>

KNAPP 2-75-CATS 1-FOREMAN  
 1-70-CAT 3-CAT-OPERATORS  
 6-26-34 2-CARRYALLS 1-SHOVEL-OPERATOR  
 1-ROOTER 1-OILER  
 NO. 3 1-SHOVEL 2-LABORERS  
 3-TRUCKS 2-DRILLERS  
 8 PM TO 3 AM. 1-AIR-COMPR 3-TRUCK-DRIVERS  
 TRUCK LOADS 176=440 CU.YDS

130 LOADS=884 CU.YDS

884  
 440  
 1324  
 TOTAL

6-26-34

8-TO 3 AM.

2692 CU.YDS  
 TOTAL

STA-10-16700

17

KNAPP 2-75-CATS 1-FOREMAN  
 2-CARRYALLS 3-CAT-OPERATORS  
 NO. 1 1-BULLDOZER 1-SHOVEL-OPERATOR  
 1-ROOTER 1-OILER  
 1-27-34 1-SHOVEL 3-TRUCK-DRIVERS  
 3-TRUCKS 1-WELDER  
 4 TO 11 AM. 1-AIR-COMPR. 1-POWDER-MAN  
 2-DRILLERS  
 2-LAB-SLOPING  
 1-LAB-ON-DUMP  
 102-LOADS 693 CU.YDS

TRUCK  
 LOADS  
 214-535 CU.YDS

BODENHAMER 2-LAB-SLOPING

NO. 1 2-LAB-ON-BUNKERS

6-27-34 1-TRUCK

7<sup>30</sup> TO 3<sup>30</sup>

KNAPP 2-75-CATS 1-FOREMAN  
 2-CARRYALLS 3-CAT-OPERATORS  
 NO. 2 1-70-CAT 1-SHOVEL-OPERATOR  
 1-ROOTER 1-OILER  
 1-SHOVEL 3-TRUCK-DRIVERS  
 6-27-34 3-TRUCKS 1-LAB-ON-DUMP  
 TRUCK LOADS 196=490 CU.YDS

130-LOADS 884 CU.YDS

KNAPP 2-75-CATS 1-FOREMAN  
 NO. 3 1-BULLDOZER 3-CAT-OPERATORS  
 2-CARRYALLS

6-27-34 1-ROOTER 2-DRILLERS

8 PM TO 3 AM. 1-AIR-COMPR 1-LABORER

TOTAL  
 3458 CU.YDS

126-LOADS 856 CU.YDS

JUNE-TO-DATE

57887 CU.YDS

STA 10+00+16+50

STA 10+59-17+50

18

KNAPP 2-75-CATS 1-FOREMAN  
 NO1 2-CARRYALLS 3-CAT-OPERATORS  
 1-BULLDOZER 1-SHOVEL-OPERATOR  
 6-28-34 1-ROOTER 1-OILER  
 1-SHOVEL 3-TRUCK DRIVERS  
 HAMTOLLAM 2-DRILLERS 2-LAB-SLOPING  
 3-TRUCKS 1-POWDER-MAN  
 1-AIR-COMPR 1-LAB-ON-DUMP  
 1-WELDER  
 TRUCK LOADS  
 229-458 CU.YDS (458 + 856 = 1314 TOTAL)  
 126-LOADS 856 CU.YDS

KNAPP 2-75-CATS 1-FOREMAN  
 2-CARRYALLS 3-CAT-OPERATORS  
 NO1 1-BULLDOZER 1-SHOVEL-OPERATOR  
 1-ROOTER 1-OILER  
 6-29-34 1-SHOVEL 3-TRUCK-DRIVERS  
 1-AIR-COMPR 2-DRILLERS  
 HAMTOLLAM 1-POWDER-MAN  
 3-TRUCKS 1-WELDER  
 TRUCK LOADS 1-LAB-ON-DUMP  
 188-414 CU.YDS 1-LAB-SLOPING  
 884 130-LOADS-884-CU.YDS  
 414  
 1298

BODENHAMER 2-LAB-SLOPING  
 6-28-34 3-LAB-ERECTING-BUNKERS.  
 7<sup>30</sup> TO 3<sup>30</sup> 1-TRUCK

BODENHAMER 2-LAB-SLOPING 7-H  
 NO1 1- " " 4-HRS.  
 6-28-34 2-LAB-ON-BUNKERS.

KNAPP 2-75-CATS 1-FOREMAN  
 NO2 2-CARRYALLS 3-CAT-OPERATORS  
 1-BULLDOZER 1-SHOVEL-OPERATOR  
 6-28-34 1-ROOTER 1-OILER  
 1-SHOVEL 3-TRUCK-DRIVERS  
 3-TRUCKS 1-LAB-ON-DUMP  
 12M TO 7PM TRUCK LOADS  
 183-403 CU.YDS (800 + 403 = 1203 TOTAL)  
 120-800 CU.YDS

KNAPP 2-75-CATS 1-FOREMAN  
 NO2 2-CARRYALLS 3-CAT-OPERATORS  
 1-BULLDOZER 1-SHOVEL-OPERATOR  
 1-ROOTER 1-OILER  
 6-29-34 1-SHOVEL 3-TRUCK-DRIVERS  
 3-TRUCKS 2-DRILLERS  
 12 TO 7PM 1-AIR-COMPR 1-LAB-ON-DUMP  
 TRUCK LOADS 130-LOADS 875-CU.YDS  
 265-583 CU.YDS 1458 CU.YDS

KNAPP 2-75-CATS 1-FOREMAN  
 NO3 2-CARRYALLS 3-CAT OPERATORS  
 1-BULLDOZER 1-SHOVEL-OPERATOR  
 6-28-34 1-ROOTER 1-OILER  
 1-AIR-COMPR 2-DRILLERS  
 8 P.M. TO 3AM 1-LABORER  
 1314  
 1203  
 630  
 3147 TOTAL  
 57887  
 3147  
 61034 TOTAL  
 93LOADS 630 CU.YDS

KNAPP 2-75-CATS 1-FOREMAN  
 NO3 2-CARRYALLS 3-CAT OPERATORS  
 1-BULLDOZER 1-SHOVEL-OPERATOR  
 1-ROOTER 1-OILER  
 6-29-34 1-AIR-COMPR 2-DRILLERS  
 1-LABORER  
 8 P.M. TO 3AM  
 108-734 CU.YDS  
 3490 CU.YDS TOTAL  
 64524 GR. TOTAL

STA 10400-19400

KNAPP 2-75-CATS 1-FOREMAN  
 NO 1 2-CARRYALLS 3-CAT-OPR.  
 1-BULLDOZER 1-SHOVEL-OPR  
 1-OILER  
 6-30-34 1-SHOVEL 3-TRUCK-DRIVERS  
 3-TRUCKS 1-POWDER-MAN  
 4 TO 9 AM. 1-AIR-COMPR 2-DRILLERS  
 TRUCK LOADS 1-LAB-SLOPING  
 211-465 CU.YDS 1-LAB-ON-DUMP  
 1-WELDER  
 90-LOADS 612 CU.YDS

BODENHAMER 1-LAB-SLOPING 5-H 1077 CU.YDS  
 1- " " 8-H TOTAL  
 6-30-34 2-LAB-ON-BUNKERS

6 TO 11 AM.

KNAPP 2-75-CATS 1-FOREMAN  
 NO 2 2-CARRYALLS 3-CAT-OPR.  
 1-BULLDOZER 1-SHOVEL-OPR  
 1-ROOTER 3-TRUCK-DRIVERS  
 6-30-34 1-SHOVEL 2.5 HRS. 1-OILER  
 3-TRUCKS 2.5 HRS. 1-POWDER-MAN  
 9 AM TO 2 PM. 1-AIR-COMPR 1-BLACKSMITH-HELPER  
 TRUCK LOADS 2-DRILLERS  
 72-180-CU.YDS 1-LAB-ON-DUMP  
 86-LOADS 578 CU.YDS

758 CU.YDS  
 TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
 NO 3- 2-CARRYALLS 3-CAT-OPERATOR  
 1-BULLDOZER 2-DRILLERS  
 1-ROOTER 1-LABORER  
 6-30-34 1-AIR-COMPR

2<sup>30</sup> TO 7<sup>30</sup>

1077  
 758  
 178  
 2413  
 TOTAL

64524  
 2413

66937 GRAND  
 TOTAL

85-LOADS-578 CU.YDS

NIGHT  
 WATCHMAN

STA-10400-19400

7-1-34-8 HRS.  
 6-30-34-12 HRS.

19

KNAPP 2-75-CATS 1-FOREMAN  
 NO 1 2-CARRYALLS 3-CAT-OPERATORS  
 1-BULLDOZER 1-SHOVEL-OPR  
 1-SHOVEL 1-OILER  
 7-2-34 3-TRUCKS 1-POWDER-MAN  
 3-TRUCK-DRIVERS  
 1-AIR-COMPR. 2-DRILLERS  
 4 TO 11 AM. 2-LABORERS  
 TRUCK LOADS 1-WELDER  
 225-500 CU.YDS 1-BLACKSMITH-HELPER  
 126-LOADS 856 CU.YDS  
 1356 CU.YDS  
 TOTAL

BODENHAMER 2-LAB-SLOPING  
 1-TRUCK  
 7-2-34 3-LAB-ON-BUNKERS  
 1-TRUCK-DRIVER  
 7<sup>30</sup> TO 8<sup>30</sup> 1-OFFICE-MAN  
 1-LAB-3.5 HRS-

KNAPP 2-75-CATS 1-FOREMAN  
 NO 2 2-CARRYALLS 3-CAT-OPR.  
 7-2-34 1-BULLDOZER 1-SHOVEL-OPR  
 1-ROOTER 1-OILER  
 12 TO 7 PM. 1-SHOVEL 4-TRUCK-DRIVERS  
 4-TRUCKS 1-POWDER-MAN  
 1-AIR-COMPR. 2-DRILLERS  
 TRUCK LOADS 2-LAB-ON-DUMP  
 230-575 CU.YDS 130-LOADS-884 CU.YDS

1459 CU.YDS  
 TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
 NO 3 2-CARRYALLS 3-CAT OPERATORS  
 7-2-34 1-BULLDOZER 2-DRILLERS  
 1-ROOTER 1-LABORER.  
 8 PM TO 3 AM. 1-AIR-COMPR. 126-LOADS 856 CU.YDS

3671 CU.YDS  
 TOTAL

1000-185-40% MECP

BODENHAMER-BLACKSMITH  
 6-34-29.5 HRS

STA-10-15450

KNAPP	2-75-CATS	1-FOREMAN
NO-1	2-CARRYALLS	3-CAT-OPR.
7-3-34	1-BULLDOZER	1-SHOVEL-OPR
	1-ROOTER	1-OILER
H TOHAM,	1-SHOVEL	2-DRILLERS
	4-TRUCKS	8+LABORERS-1-4HR
	1-AIR-COMPR	4-TRUCK-DRIVERS
	TRUCK LOADS	1-WELDER
	(221-532 CU.YDS)	1-POWDER-MAN
		(106-LOADS=720 CU.YDS)

BODENHAGER	2-LAB-SLOPING	(1072 CU.YDS)
	1-MAN-IN-OFFICE	TOTAL
	3-LAB-ON-BUNKERS	
	1-TRUCK	
	1-TRUCK-DRIVER	

KNAPP	2-75-CATS	1-FOREMAN
NO 2	2-CARRYALLS	3-CAT-OPR.
7-3-34	1-BULLDOZER	1-SHOVEL-OPR.
	1-ROOTER	1-OILER
	1-SHOVEL	4-TRUCK-DRIVERS
	4 TRUCKS	2-DRILLERS
	1-AIR-COMPR.	1-LAB-ON-DUMP
	TRUCK LOADS	(130-LOADS=884 CU.YDS)
	(226-566 CU.YDS)	(1450 CU.YDS)
		TOTAL

KNAPP	2-75-CATS	1-FOREMAN
NO 3	2-CARRYALLS	3-CAT-OPERATORS
7-3-34	1-ROOTER	2-DRILLERS
	1-BULLDOZER	
8PM TO 3AM.	1-AIR-COMPR	1-LABORER.
		(126-LOADS=856 CU.YDS)
		(3578 CU.YDS)
		TOTAL

(3578 CU.YDS)  
TOTAL

STA-9-100-15450

20

WATCHMAN-7-4-34-10 HRS.

KNAPP	2-75-CATS	1-FOREMAN
NO-1	2-CARRYALLS	3-CAT-OPR.
7-3-34	1-BULLDOZER	1-SHOVEL-OPR
	1-ROOTER	1-OILER
H TOHAM,	1-SHOVEL	1-WELDER
	4-TRUCKS	4-TRUCK-DRIVERS
	1-AIR-COMPR	2-DRILLERS.
	TRUCK LOADS	1-POWDER-MAN.
	(182-452 CU.YDS)	4-LABORERS
		(130-LOADS 884 CU.YDS)

BODENHAGER	2-LAB-SLOPING	(1339 CU.YDS)
7-5-34	2-LAB-ON-BUNKERS	TOTAL
20-3 <sup>20</sup>	1-TRUCK	
	1-TRUCK-DRIVER	
	1-MAN-IN-OFFICE	

KNAPP	2-75-CATS	1-FOREMAN
NO 2	2-CARRYALLS	3-CAT-OPERATORS
7-3-34	1-BULLDOZER	1-SHOVEL-OPR-1-5.5H
	1-ROOTER	2-OILERS-1-5.5H
7-5-34	2-SHOVEL-1-5.5H	4-TRUCK-DRIVERS
	4-TRUCKS	2-DRILLERS
H TO 7PM.	1-AIR-COMPR.	1-LAB-ON-DUMP
	TRUCK LOADS	(130 LOADS 884 CU.YDS)
	(722-710 CU.YDS)	(1594 CU.YDS)
		TOTAL

KNAPP	2-75-CATS	1-FOREMAN
NO 3	2-CARRYALLS	3-CAT-OPR.
7-5-34	1-BULLDOZER	2-DRILLERS.
	1-ROOTER	1-LABORER
8PM-3AM.	1-AIR-COMPR	(126-LOADS-856 CU.YDS)
		(3789 CU.YDS)
		TOTAL

(3789 CU.YDS)  
TOTAL

STA-10400-18400

KNAPP 2-75-CATS 1-FOREMAN  
 NO1 2-CARRYALLS 3-CAT-OPR  
 7-6-34 1-70-CAT 2-SHOVEL-OPR  
 1-ROOTER 2-OILERS  
 4 TO 9 AM 2-SHOVELS 4-LABORERS  
 7-TRUCKS 2-DRILLERS  
 1-AIR-COMPR 1-WELDER  
 TRUCK LOADS 7-TRUCK DRIVERS

526-1400 CU.YDS

130-LOADS-884 CU.YDS

2200 CU.YDS  
TOTAL

BODENHAMER 2-LAB-SLOPING  
 NO1  
 7-6-34 4-LAB-ON-EQUIPMENT  
 1-MAN-IN-OFFICE

KNAPP 2-75-CATS 1-FOREMAN  
 NO2- 2-CARRYALLS 3-CAT-OPR  
 7-6-34 1-70-CAT 2-SHOVEL-OPR  
 1-ROOTER 2-OILERS  
 12 T 7 PM 2-SHOVELS 7-TRUCK-DRIVERS  
 7-TRUCKS 2-DRILLERS  
 1-AIR-COMPR 1-POWDER-MAN  
 TRUCK LOADS 1-LABORER-ON-DUMP

400-1080 CU.YDS

120-LOADS-816 CU.YDS

1896 CU.YDS  
TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
 NO.3 1-70-CAT 3-CAT-OPR  
 7-6-34 2-CARRYALLS 2-DRILLERS  
 1-ROOTER  
 1-AIR-COMPR 1-LABORER

125-850 CU.YDS

4945 CU.YDS  
TOTAL

10400-15750

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KNAPP 1-75-CAT 1-FOREMAN  
 1-75-CAT-3.5 3-CAT-OPR  
 NO-1 1-BULLDOZER 2-SHOVEL-OPR-7-H  
 1-CARRYALL 2-OILERS-7-H  
 1-ROOTER 6-LAB  
 7-7-34 2-SHOVELS-7-H 3-DRILLERS  
 7-TRUCKS-7-H  
 4 TO 9 AM 1-AIR-COMPR 1-WELDER  
 TRUCK LOADS 7-TRUCK-DRIVERS-7-H

482-1430 CU.YDS

85-LOADS-578 CU.YDS

2000 CU.YDS  
TOTAL

BODENHAMER 2-LAB-SLOPING  
 NO1 1-TRUCK  
 7-7-34 4-LAB-ON-EQUIPMENT  
 1-TRUCK-DRIVER  
 1-MAN-IN-OFFICE

KNAPP 1-75-CAT 1-FOREMAN  
 1-BULLDOZER 3-CAT-OPR  
 NO2 1-CARRYALL 2-SHOVEL-OPR-7-H  
 1-ROOTER 2-OILERS-7-H  
 7-7-34 2-SHOVELS-1.5 2-DRILLERS  
 7-TRUCKS 1-POWDER-MAN  
 9 TO 12 PM 1-AIR-COMPR 1-LABORER-7-H  
 TRUCK LOADS

177-530 CU.YDS

40-LOADS-280 CU.YDS

810 CU.YDS  
TOTAL

KNAPP 1-75-CAT 1-FOREMAN  
 1-BULLDOZER 3-CAT-OPR  
 NO3- 1-CARRYALL 2-DRILLERS  
 1-ROOTER 1-LABORER  
 7-7-34 1-AIR-COMPR

30  
7-107 P.M.

60-LOADS-410 CU.YDS

3220 CU.YDS  
TOTAL

NIGHT-WATCHMAN-12-HRS

STA 9450-18400 POWDER-RECD.  
NIGHT-WATCHMAN-7-8-34-8-HRS.

KNAPP 2-75-CATS 1-FOREMAN  
NO 1 2-CARRYALLS 3-CAT-OPR  
1-BULLDOZER 2-SHOVEL-OPR  
1-ROOTER 2-OILERS  
7-9-34 2-SHOVELS 7-TRUCK-DRIVERS  
7-TRUCKS 2-DRILLERS

4-11A.M. 1-AIR-COMPR  
TRUCK  
LOADS  
285-770 CU.YDS  
1-POWDER-MAN  
1-WELDER

130-LOADS-884 CU.YDS

1654 CU.YDS  
TOTAL

BODENHAGER 2-LAB-SLOPING  
N1- 1-OFFICE-MAN  
7-9-34 4-LAB-ON-BUNKERS  
730-330

MIRACLE CO 1-AIR-COMP-1-DRILL STA-14400-14450-SOUTH-SIDE  
DRILLING 1-30-CAT  
GROUT-HOLE 1-FOREMAN-2-LAB-2-DRILLERS  
7-9-34

8AM-

KNAPP 2-75-CATS 1-FOREMAN  
NO-2- 2-CARRYALLS 3-CAT-OPR  
7-9-34 1-BULLDOZER 2-SHOVEL-OPR  
2-SHOVELS-1-3HRS. 2-OILERS  
12M TO 7P.M. 7-TRUCKS-3-3.5 7-TRUCK-DRIVERS  
1-AIR-COMPR. 2-DRILLERS

260-LOADS  
700-CU.YDS

1584 CU.YDS  
TOTAL

130-LOADS-884 CU.YDS

KNAPP 2-75-CATS 1-FOREMAN  
NO 3 2-CARRYALLS 3-CAT-OPR  
7-9-34 1-BULLDOZER 2-DRILLERS  
1-ROOTER 1-LAB.  
8PM-3AM 1-AIR-COMP 130-LOADS-884 CU.YDS

4125 CU.YDS  
TOTAL

STA-10400-18400

22

KNAPP 2-75-CATS 1-FOREMAN  
NO 1 2-CARRYALLS 3-CAT-OPR  
7-10-34 1-BULLDOZER 2-SHOVEL-OPR  
1-ROOTER 2-OILERS  
4-11AM 2-SHOVELS 7-TRUCK-DRIVERS  
7-TRUCKS 2-DRILLERS

1-AIR-COMPR 5-LABORERS-1-3-HRS.  
TRUCK  
LOADS  
498-1340 CU.YDS 140-LOADS-950 CU.YDS

2290 CU.YDS  
TOTAL

BODENHAGER 2-LAB-SLOPING  
7-10-34 4-LAB-ON-EQUIPMENT  
NO-1 1-OFFICE-MAN

MIRACLE- 1-TRUCK-HAULING STEEL CEMENT  
7-10-34 1-TRUCK-DRIVER  
NO-1 1-LAB

KNAPP 2-75-CATS 1-FOREMAN  
NO 2 2-CARRYALLS 3-CAT-OPR  
7-10-34 1-BULLDOZER 2-SHOVEL-OPR  
2-SHOVELS 2-OILERS  
7-TRUCKS 7-TRUCK-DRIVERS  
1-AIR-COMPR 2-DRILLERS  
TRUCK  
LOADS 1-POWDER-MAN  
1-WELDER  
321-867 CU.YDS 2-LABORER

321-867 CU.YDS

1600 CU.YDS  
TOTAL

110-LOADS-735 CU.YDS

KNAPP 2-75-CATS 1-FOREMAN  
NO 3 2-CARRYALLS 3-CAT-OPR  
7-10-34 1-TRUCK 2-DRILLERS  
1-LAB.  
8PM TO 3AM 1-AIR-COMPR

133-900 CU.YDS

4790 CU.YDS CEMENT & STEEL-RECD.  
TOTAL



STA-10+00-18+00

KNAPP 2-75-CATS 1-FOREMAN  
 2-CARRYALLS 3-CAT-OPR  
 NO 1 1-BULLDOZER 2-SHOVEL-OPR  
 1-ROOTER 5-TRUCK-DRIVERS  
 7-11-34 1-SHOVEL-1-1/2H 2-OILER  
 5-TRUCKS 2-DRILLERS  
 4 TO 11AM 1-AIR-COMPR. 5-LABORERS  
 (253-683 CU.YDS) (130-LOADS 884 CU.YDS)  
 (1567 CU.YDS)  
 TOTAL  
 1-FOREMAN  
 BORENHAMER 2-LAB-SLOPING  
 4-LAB-ON-EQUIPMENT  
 1-MAN-IN-OFFICE

KNAPP 2-75-CATS, 1-2H 1-FOREMAN  
 2-CARRYALLS 3-CAT-OPR  
 NO 2 1-BULLDOZER 2-SHOVEL-OPR  
 2-SHOVEL 2-OILERS  
 7-11-34 5-TRUCKS 2-DRILLERS  
 1-AIR-COMPR. 5-TRUCK-DRIVERS  
 12M-7PM. TRUCK 1-POWDER-MAN.  
 LOADS 1-WELDER  
 2-LAB  
 (280-756 CU.YDS) (65-LOADS-442 CU.YDS)

KNAPP 2-75-CATS (1200 CU.YDS)  
 2-CARRYALLS TOTAL ✓  
 NO 3 1-BULLDOZER 1-FOREMAN  
 1-ROOTER 3-CAT-OPR  
 7-11-34 2-DRILLERS  
 8PM TO 3AM. 1-LAB  
 (126-LOADS-856 CU.YDS)  
 (3600 CU.YDS)  
 TOTAL

STA-10+00-23+00

23

KNAPP 2-75-CATS 1-FOREMAN  
 2-CARRYALLS 3-CAT-OPR  
 NO 1 1-ROOTER 2-SHOVEL-OPR  
 2-OILERS  
 7-12-34 2-SHOVELS 4-TRUCK-DRIVERS  
 4-TRUCKS 2-DRILLERS  
 4 TO 11AM. 1-AIR-COMPR 5-LAB-  
 TRUCK LOADS  
 (298-745 CU.YDS) (70-LOADS 460 CU.YDS)  
 1-FOREMAN  
 BORENHAMER 2-LAB-SLOPING (1360 CU.YDS) ✓  
 4-LAB-ON-EQUIPMENT TOTAL  
 1-MAN-IN-OFFICE

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO 2 1-ROOTER 2-SHOVEL-OPR  
 2-SHOVEL 2-OILER  
 7-12-34 4-TRUCKS 4-TRUCK-DRIVERS  
 1-AIR-COMP. 2-DRILLERS  
 12 TO 7PM. TRUCK 1-POWDER-MAN  
 LOADS 1-WELDER ✓  
 2-LAB  
 (126-340 CU.YDS) (90-LOADS 612 CU.YDS)

KNAPP 2-75-CATS (952 CU.YDS)  
 2-CARRYALLS TOTAL  
 NO 3 1-AIR-COMPR. 1-FOREMAN  
 2-DRILLERS 3-CAT-OPR  
 7-12-34 1-LABORER  
 8PM TO 3AM. (90-LOADS 585 CU.YDS)  
 (2900 CU.YDS)  
 TOTAL

STA-10 & 15+50

KNAPP	2-75-CATS	1-FOREMAN
	2-CARRYALLS	3-CAT-OPR
NO.1	2-SHOVELS	2-SHOVEL-OPR
	6-TRUCKS	2-OILERS
7-13-34	1-AIR-COMPR	5-LAB
	1-BULLDOZER	2-DRILLERS
4 TO 11 AM.	1-ROOTER	6-TRUCK-DRIVERS
	TRUCK LOADS	
	274-600 CU. YDS	125-LOADS = 825 CU. YDS
	1-FOREMAN	1425 CU. YDS ✓
BODENHAMER	2-LAB-SLOPING	TOTAL
	4-LAB-ON-EQUIPMENT	
	1-OFFICE-MAN.	

KNAPP	2-75-CATS	1-FOREMAN
	2-CARRYALLS	3-CAT-OPR
NO 2	1-BULLDOZER	2-SHOVEL-OPR
	1-ROOTER	2-OILERS
7-13-34	1-SHOVEL	2-DRILLERS
	4-TRUCKS	1-WELDER
12 M-7 PM.	1-AIR-COMPR	1-POWDER-MAN
	TRUCK LOADS	2-LAB
	171-427 CU. YDS	4-TRUCK-DRIVERS
		125-LOADS = 825
		1250-CU. YDS ✓
		TOTAL

KNAPP	2-75-CATS	1-FOREMAN
	2-CARRYALLS	3-CAT-OPR.
NO-3	1-BULLDOZER	2-DRILLERS
		1-LAB
7-13-34	1-AIR-COMPR	
8 PM-3 AM.		
		114-LOADS = 750 CU. YDS
	3425-CU. YDS	
	TOTAL	

STA-10+00 & 15+50

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KNAPP	2-75-CATS	1-FOREMAN
NO-1		3-CAT-OPR
7-14-34	1-CARRYALL	1-SHOVEL-OPR
	1-CARRYALL-3-H	1-OILER
4 TO 9 AM	1-BULLDOZER-2-H	4-TRUCK-DRIVERS
	1-SHOVEL	2-DRILLERS
	4 TRUCKS	1-POWDER-MAN
	1-AIR-COMPR	1-WELDER
	TRUCK LOADS	5-LAB
	126-340-CU. YDS	72-LOADS 490 CU. YDS
	1-FOREMAN	830-CU. YDS
BODENHAMER	2-LAB-SLOPING	TOTAL
	3-LAB-ON-EQUIP.	
	1-MAN-IN-OFFICE	
	1-TRUCK	
	1- " DRIVER	

KNAPP	2-75-CATS	1-FOREMAN
	1-CARRYALL	3-CAT-OPR
NO-2	1-CARRYALL	2-SHOVEL-OPR
	1-SHOVEL	2-OILERS
7-14-34	4-TRUCKS	2-DRILLERS
	1-AIR-COMPR.	2-LAB
	TRUCK LOADS	4-TRUCK-DRIVERS
9-2 PM.	117-316-CU. YDS	
	70.6 CU. YDS	59-LOADS = 390 CU. YDS
	TOTAL	

KNAPP	2-75-CATS	1-FOREMAN
	1-CARRYALL	3-CAT-OPR
NO-3	1-CARRYALL	2-DRILLERS
	1-ROOTER	1-LAB.
7-14-34	1-AIR-COMPR.	
		72-LOADS 490 CU. YDS
	2026 CU. YDS.	
	TOTAL	

NIGHT-WATCH  
7-14-34-12 HRS  
7-15-34-8 HRS.

1 STA-10&15750

KNAPP 2-75-CATS 1-FOREMAN  
 NO1 1-CARRYALL-2-H 3-CAT-OPR  
 7-16-34 1-CARRYALL 2-SHOVEL-OPR  
 1-ROOTER 2-OILERS  
 4 TO 11 AM. 2-SHOVELS 6-TRUCK-DRIVERS  
 6-TRUCKS 2-DRILLERS  
 1-AIR-COMPR 1-POWDER-MAN  
 TRUCK 1-WELDER  
 LOADS 5-LAB.  
 (270-730 CU.YDS)  
 (81-LOADS 550-CU.YDS)

BODENHAMER -1 FOREMAN 1280 CU.YDS TOTAL ✓  
 2-LAB-SLOPING  
 2-LAB-ON-EQUIP  
 1-TRUCK  
 1-TRUCK-DRIVER

KNAPP 2-75-CATS 1-FOREMAN  
 NO 2 1-CARRYALL 3-CAT-OPR  
 1-CARRYALL 2-SHOVEL-OPR  
 1-ROOTER 2-OILERS  
 7-16-34 2-SHOVEL 2-DRILLERS  
 6-TRUCKS 3-LAB  
 12 TO 7 PM. 1-AIR-COMPR 6-TRUCK-DRIVERS.  
 TRUCK  
 LOADS  
 (228-618 CU.YDS) (55-LOADS=375 CU.YDS)  
 (990 CU.YDS) ✓

KNAPP 2-75-CATS 1-FOREMAN  
 NO 3 1-CARRYALL 3-CAT-OPR  
 1-CARRYALL 2-DRILLERS  
 1-ROOTER 1-LABORER.  
 7-16-34 1-AIR-COMPR.  
 (56-LOADS=350 CU.YDS)

(2640 CU.YDS) TOTAL ✓

STA 7+408-15750

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KNAPP 2-75-CATS 1-FOREMAN  
 NO1 1-CARRYALLS 3-CAT-OPR  
 7-70-CAT 2-SHOVEL-OPR  
 1-ROOTER 2-OILERS  
 7-17-34 2-SHOVELS 6-TRUCK-DRIVERS  
 1-AIR-COMPR 2-DRILLERS  
 4 TO 11 AM. 6-TRUCKS. 1-POWDER-MAN  
 TRUCK 1-WELDER  
 LOADS. 3-LAB  
 (319-860 CU.YDS)  
 (90-LOADS 595 CU.YDS)

BODENHAMER 1-FOREMAN 1455 CU.YDS TOTAL ✓  
 2-LAB-SLOPING  
 3-LAB-ON-EQUIP.  
 1-OFFICE-MAN.

KNAPP 2-75-CATS 1-FOREMAN  
 NO 2 2-CARRYALLS 3-CAT-OPR.  
 1-BULLDOZER 2-SHOVEL-OPR  
 1-ROOTER 2-OILERS.  
 7-34 2-SHOVELS 6-TRUCKS.  
 6-TRUCKS 4-DRILLERS  
 8 TO 7 PM. 2-AIR-COMPR 1-POWDER-MAN  
 TRUCK 2-LAB.  
 LOADS  
 (204-570 CU.YDS) (50-LOADS 840 CU.YDS)

(850 CU.YDS) TOTAL ✓

KNAPP  
 NO-3 2-75-CATS 1-FOREMAN  
 7-17-34 2-CARRYALLS 3-CAT-OPR  
 1-BULLDOZER 2-DRILLERS  
 8 PM TO 3 AM. 1-ROOTER 1-LAB  
 1-AIR-COMPR (84-LOADS=571 CU.YDS)  
 (3876 CU.YDS) TOTAL ✓

STA 7740-18450

KNAPP	2-75-CATS	1-FOREMAN
	2-CARRYALLS	3-CAT-OPR.
NO-1-	1-BULLDOZER	2-SHOVEL-OPR
	1-ROOTER	2-OILERS
7-18-34	2-SHOVELS	4-DRILLERS
	2-AIR-COMPR.	1-POWDER-MAN
	6-TRUCKS	6-TRUCK-DRIVERS
	TRUCK LOADS	4-LABORERS
	210-567-CU.YDS	100-LOADS 68.0-CU.YDS.

1247 CU.YDS  
TOTAL ✓

BODENHAMER	1-FOREMAN
7-18-34	2-LAB-SLOPING
	4-LAB-ON-EQUIP.
	1-MAN-IN-OFFICE

KNAPP	2-75-CATS	1-FOREMAN
	2-CARRYALLS	3-CAT-OPR.
NO 2	1-BULLDOZER	2-SHOVEL-OPR
	2-SHOVELS	2-OILERS
7-18-34	6-TRUCKS	4-DRILLERS
	2-AIR-COMPR	1-POWDER-MAN
12 TO 7 P.M.	TRUCK LOADS	6-TRUCK-DRIVERS
	268-670 CU.YDS	1-WELDER
		3-LAB.

1145 CU.YDS  
TOTAL

70-LOADS 475 CU.YDS ✓

KNAPP	2-75-CATS	1-FOREMAN
	2-CARRYALLS	3-CAT-OPR
NO-3-	1-BULLDOZER	2-DRILLERS
	1-ROOTER	
7-18-34	1-AIR-COMPR	1-LAB.

78-LOADS=515 CU.YDS ✓

2900 CU.YDS  
TOTAL ✓

STA 7740-19450

26

KNAPP	2-75-CATS	1-FOREMAN
	2-CARRYALLS	3-CAT-OPR
NO1-	1-BULLDOZER	2-SHOVEL-OPR.
	1-ROOTER	2-OILERS
7-19-34	2-SHOVELS	6-TRUCK-DRIVERS
	6-TRUCKS	4-DRILLERS
	1-AIR-COMPR.	4-LABORERS
	TRUCK LOADS	
	414-1075-CU.YDS.	70-LOADS-462 CU.YDS

1537 CU.YDS  
TOTAL ✓

BODENHAMER	1-FOREMAN	2" PUMP-STARTED 3 <sup>30</sup> P.M.
	6-LAB	
	1-MAN-IN-OFFICE	

KNAPP	2-75-CATS	1-FOREMAN
	2-CARRYALLS	3-CAT-OPR
NO 2	1-BULLDOZER	2-SHOVEL-OPR.
	2-SHOVELS	2-OILERS
7-19-34	6-TRUCKS	6-TRUCK-DRIVERS
	2-AIR-COMPR	4-DRILLERS
	TRUCK LOADS	1-POWDER-MAN
	269-726 CU.YDS	1-WELDER
		6-LAB
		80-LOADS=508 CU.YDS

1254 CU.YDS  
TOTAL ✓

KNAPP	2-75-CATS	1-FOREMAN
	2-CARRYALLS	3-CAT-OPR
NO3	1-BULLDOZER	2-DRILLERS
	1-ROOTER	1-LAB.
7-19-34	1-AIR-COMPR	78-LOADS-515 CU.YDS

3300 CU.YDS  
TOTAL ✓

STA-7+40 15+50  
STEEL-REC'D

KNAPP 2-75-CATS 1-FOREMAN  
2-CARRYALLS 3-CAT-OPR  
NO-1 1-BULLDOZER 2-SHOVEL-OPR-5-H  
1-ROOTER 2-OILERS-5-H  
7-20-34 2-SHOVELS-5-H 6-TRUCK-DRIVERS-5-H  
6-TRUCKS-5-H 4-DRILLERS  
2-AIR-COMPR 1-POWDER-MAN  
TRUCK  
LOADS  
162=437 CU.YDS

90-LOADS-600-CU.YDS

BODENHAMER 1-FOREMAN  
6-LAB  
1-OFFICE-MAN

1037-CU.YDS  
TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
2-CARRYALLS 3-CAT-OPR  
NO-2 1-BULLDOZER 2-OILERS  
1-ROOTER 2-SHOVEL-OPR  
7-20-34 6-TRUCK-DRIVERS  
2-SHOVELS 4-DRILLERS  
6-TRUCKS 1-POWDER-MAN  
2-AIR-COMPR 2-LAB

TRUCK  
LOADS  
199=500 CU.YDS

84-LOADS 554 CU.YDS

1054 CU.YDS  
TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
2-CARRYALLS 3-CAT-OPR  
NO-3 1-BULLDOZER 2-DRILLERS  
1-ROOTER  
7-20-34 1-AIR-COMPR 1-LAB

2690-CU.YDS

100-LOADS 600 CU.YDS

STA 7+40-15+50

27

KNAPP 2-75  
2-CARRYALLS 3-CAT-OPR  
NO-1 1-BULLDOZER 2-SHOVEL-OPR  
1-ROOTER 2-OILERS  
7-21-34 2-SHOVELS 6-TRUCK-DRIVERS  
6-TRUCKS 4-DRILLERS  
4 TO 9 AM 2-AIR-COMPR 4-LAB  
TRUCK  
LOADS  
191=480 CU.YDS  
1-POWDER-MAN  
1-WELDER

70-LOADS 462 CU.YDS

942 CU.YDS  
TOTAL

BODENHAMER 1-FOREMAN  
6-LAB  
1-OFFICE-MAN  
7-21-34

7 TO 12 M

KNAPP 2-75-CATS 1-FOREMAN  
2-CARRYALLS 3-CAT-OPR  
NO-2 1-BULLDOZER 2-SHOVEL-OPR  
1-ROOTER 2-OILERS  
7-21-34 2-SHOVELS 6-TRUCK-DRIVERS  
6-TRUCKS 2-DRILLERS-2-3 HRS.  
9 TO 2 PM 1-AIR-COMPR 1-POWDER-MAN  
1-AIR-COMPR-3-H 4-LAB  
TRUCK  
LOADS  
169=422 CU.YDS

70-LOADS=460 CU.YDS

882 CU.YDS  
TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
2-CARRYALLS 3-CAT-OPR  
NO-3 1-BULLDOZER 2-DRILLERS  
1-ROOTER  
7-21-34 1-AIR-COMPR 1-LAB

9<sup>30</sup> TO 11<sup>30</sup>

70-LOADS=462 CU.YDS

2280 CU.YDS  
TOTAL

NIGHT-WATCH  
 7-21-34-8 HRS  
 7-22-34-10.5  
 STA 7+40 - 15+50  
 STEEL-REC'D  
 KNAPP 2-75-CATS 1-FOREMAN  
 NO1 2-CARRYALLS 3-CAT-OPR  
 1-BULLDOZER 2-SHOVEL-OPR  
 1-ROOTER  
 7-23-34 2-SHOVELS 2-OILERS  
 6-TRUCKS 4-DRILLERS  
 4-11AM 2-AIR-COMPR 1-POWDER-MAN  
 TRUCK LOADS 6-TRUCK-DRIVERS  
 191-377 CU.YDS 9-LAB-  
 1-WELDER  
 100-LOADS=650 CU.YDS

1027 CU.YDS  
TOTAL

BODENHAMER 1-FOREMAN  
 2-LAB-SLOPING  
 4-LAB  
 1-WELDER  
 1-OFFICE-MAN

KNAPP 2-75-CATS 1-FOREMAN  
 NO2- 2-CARRYALLS 3-CAT-OPR  
 1-BULLDOZER 2-SHOVEL-OPR  
 2-SHOVELS 2-OILERS  
 7-23-34 4-TRUCKS-3-5H 4-TRUCK-DRIVERS-3-5H  
 2-AIR-COMPR. 1-POWDER-MAN  
 TRUCK LOADS 3-LAB-  
 278-695 CU.YDS 100-LOADS=650 CU.YDS

1345=CU.YDS  
TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
 NO-3 2-CARRYALLS 3-CAT-OPR  
 1-BULLDOZER 2-DRILLERS  
 1-ROOTER  
 7-23-34 1-AIR-COMPR 1-LAB

90 LOADS=600 CU.YDS

2972 CU.YDS  
TOTAL

7+40-15+50 SOUTH-SLOPE-USED  
 SHOVEL-EXCAVATING-BET-STA-7+40-8+00-NO-POWDER  
 " " " " EL. 4.68 TO 6.90 STEEL-REC'D  
 KNAPP 2-75-CATS 1-FOREMAN  
 NO-1 2-CARRYALLS 3-CAT-OPR  
 1-BULLDOZER 2-SHOVEL-OPR  
 1-ROOTER 2-OILERS  
 7-24-34 2-SHOVELS 5-TRUCK-DRIVERS  
 5-TRUCKS 4-DRILLERS  
 2-AIR-COMPR. 1-POWDERMAN  
 TRUCK LOADS 1-WELDER  
 237-592 CU.YDS 10-LAB-  
 100-LOADS=650 CU.YDS

1242 CU.YDS  
TOTAL

BODENHAMER 1-FOREMAN  
 2-LAB-SLOPING  
 1-CARPENTER  
 2-LAB  
 1-WELDER  
 1-MAN-IN-OFFICE

KNAPP 2-75-CATS 1-FOREMAN  
 NO-2 2-CARRYALLS 3-CAT-OPR  
 1-BULLDOZER 2-SHOVEL-OPR  
 1-ROOTER 2-OILERS  
 7-24-34 2-SHOVELS 6-TRUCK-DRIVERS  
 2-AIR-COMPR 4-DRILLERS  
 6-TRUCKS 1-POWDER-MAN  
 TRUCK LOADS 3-LABORERS  
 259-645 CU.YDS 90-LOADS=590 CU.YDS

90-LOADS=590 CU.YDS

KNAPP 2-75-CATS 1-FOREMAN  
 NO-3 2-CARRYALLS 3-CAT-OPR  
 1-BULLDOZER 2-DRILLERS  
 1-ROOTER 1-LAB  
 7-24-34 1-AIR-COMPR 100-LOADS=650 CU.YDS

3127 CU.YDS  
TOTAL

STA: 7+40 & 15+50

KNAPP 2-75-CATS 1-FOREMAN  
 NO-1 2-CARRYALLS 3-CAT-OPR  
 1-BULLDOZER 2-SHOVEL-OPR  
 1-ROOTER 2-OILERS  
 7-25-34 2-SHOVELS 6-TRUCK-DRIVERS  
 6-TRUCKS 4-DRILLERS  
 2-AIR-COMPR. 1-POWDER-MAN  
 TRUCK-LOADS 1-WELDER  
 (291-552 CU.YDS) 1-LAB  
 125-LOADS-895-CU.YDS

BODENHAMER 1-FOREMAN  
 3-LAB-SLOPING  
 NO1 1-CARPENTER  
 2-LAB  
 7-25-34 1-WELDER  
 1-OFFICE-MAN

1377 CU.YDS  
TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
 NO-2 2-CARRYALLS 3-CAT-OPR  
 1-BULLDOZER 2-SHOVEL-OPR  
 1-ROOTER 2-OILERS  
 7-25-34 2-SHOVELS 5-TRUCK-DRIVERS  
 5-TRUCKS 4-DRILLERS 1147-CU.YDS  
 2-AIR-COMPR. 3-LAB TOTAL  
 TRUCK-LOADS  
 (243-60) CU.YDS 80-LOADS-540 CU.YDS

KNAPP 2-75-CATS 1-FOREMAN  
 NO-3 2-CARRYALLS 3-CAT-OPR  
 1-BULLDOZER 2-DRILLERS  
 1-ROOTER 1-LAB  
 7-25-34 1-AIR-COMPR 100-LOADS-680 CU.YDS

3200 CU.YDS  
TOTAL

45-SACKS-CEMENT-DAMAGED  
 BY-WATER-FROM-HUG-BOX

7+40 & 15+50 BELOW-GRADE, S. SLOPE

STA-12+40-1300

10'-STRIP-2.5' ELEV

KNAPP 2-75-CATS 1-FOREMAN  
 NO-1 2-CARRYALLS 3-CAT-OPR  
 1-BULLDOZER 2-SHOVEL-OPR  
 1-ROOTER 2-OILERS  
 7-26-34 2-SHOVELS 5-TRUCK-DRIVERS  
 5-TRUCKS 4-DRILLERS  
 2-AIR-COMPR 1-POWDER-MAN  
 TRUCK-LOADS 1-WELDER  
 (267-655 CU.YDS) 11-LABORERS

90-LOADS-590 CU.YDS

BODENHAMER 1-FOREMAN  
 4-LAB-SLOPING  
 1-CARPENTER  
 1-WELDER  
 1-TRUCK-DRIVER  
 1-MAN-IN-OFFICE

1245 CU.YDS  
TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
 NO-2 2-CARRYALLS 3-CAT-OPR  
 1-BULLDOZER 2-SHOVEL-OPR  
 1-ROOTER 2-OILERS  
 7-26-34 2-SHOVELS 5-TRUCK-DRIVERS  
 5-TRUCKS 4-DRILLERS  
 2-AIR-COMPR. 3-LAB-1-POWDER-MAN  
 TRUCK-LOADS 85-LOADS-560 CU.YDS  
 (197-492 CU.YDS) 1052 CU.YDS  
TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
 NO-3 2-CARRYALLS 3-CAT-OPR  
 1-BULLDOZER 2-DRILLERS  
 7-26-34 1-ROOTER 1-LAB  
 1-AIR-COMPR

90-LOADS-590 CU.YDS

1887 CU.YDS  
TOTAL

STA-7440-15+50 STA-10425  
10+00-N.SIDE-3 LOW. 16 below grade &

KNAPP 2-75-CATS 1-FOREMAN  
2-CARRYALLS 3-CAT-OPR  
NO1 1-BULLDOZER 2-SHOVEL-OPR  
1-ROOTER 2-OILERS  
7-27-34 2-SHOVELS 4-DRILLERS  
5-TRUCKS 1-POWDER-MAN  
2-AIR-COMPR. 1-WELDER  
TRUCK 5-TRUCK-DRIVERS  
LOADS 11-LAB  
232-580 CU.YDS 90-LOADS-590-CU.YDS  
1170 CU.YDS  
TOTAL

BODENHAMER 1-FOREMAN  
5-LAB. 2-H  
1-CARPENTER  
1-WELDER-5-H  
1-TRUCK-DRIVER  
1-OFFICE-MAN.

KNAPP 2-75-CATS 1-FOREMAN  
3-CARRYALLS 3-CAT-OPR  
NO-2 1-BULLDOZER 2-SHOVEL-OPR  
1-ROOTER 2-OILERS  
7-27-34 2-SHOVELS 4-DRILLERS  
5-TRUCKS 1-POWDER-MAN  
3-AIR-COMPR 4-LAB  
TRUCK  
LOADS  
260-620-CU.YDS 80-LOADS-530 CU.YDS  
1150 CU.YDS  
TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
2-CARRYALLS 3-CAT-OPR  
NO-3 1-BULLDOZER 2-DRILLERS  
1-ROOTER 1-LAB  
7-27-34 1-AIR-COMPR  
91-LOADS-600 CU.YDS  
2950-CU.YDS  
TOTAL

STA 7440-15+50

30

KNAPP 1-75-CAT 1-FOREMAN  
1-75-CAT-1HR. 1-SHOVEL-OPR-2  
1-SHOVEL-2-HRS 3-CAT-OPR  
NO-1 1-CARRYALL 1-OILER-2-HRS  
4-DRILLERS  
7-28-34 1-CARRYALL-1HR. 1-POWDER-MAN  
3-TRUCKS-2-H 3-TRUCK-DRIVERS-2-HRS.  
1-BULLDOZER 1-WELDER  
1-ROOTER 2-LAB-2-HRS,  
3-LABORERS  
4-9 AM 2-AIR-COMPR 45-LOADS-300 CU.YDS  
1-SHOVEL-1HR. TRUCK  
LOADS 380 CU.YDS  
31-80-CU.YDS TOTAL

BODENHAMER 1-FOREMAN = 20" 12"X12" FLUME-TAKING WATER  
1-CARPENTER FROM-HOG-BOX  
4-LAB  
1-MAN-IN-OFFICE  
1-WELDER

KNAPP 2-75-CATS 1-FOREMAN  
2-CARRYALLS 1-SHOVEL-OPR  
NO-2 1-BULLDOZER 3-CAT-OPR  
1-ROOTER 4-DRILLERS  
7-28-34 2-AIR-COMPR 1-POWDER-MAN  
1-OILER  
3-LAB  
9 AM TO 2 PM 65-LOADS-435 CU.YDS

KNAPP 2-75-CATS 1-FOREMAN  
2-CARRYALLS 3-CAT-OPR  
NO-3 1-BULLDOZER 2-DRILLERS  
1-ROOTER 1-LAB  
7-28-34 1-AIR-COMPR 70-LOADS-470 CU.YDS  
2<sup>30</sup> TO 7<sup>30</sup> PM 1285 CU.YDS  
TOTAL

WATCHMAN  
7-28-34 = 12.5 HRS  
7-29-34 8.0 HRS



7440-19750

1-WATCHMAN-8 HRS.

KNAPP 2-75-CATS

NO 1

2-CARRYALLS

1-BULLDOZER

1-ROOTER

7-30-34

2-SHOVELS

6-TRUCKS

HTO HAM.

1-AIR-COMPR

TRUCK

LOADS

(281-702 CU.YDS)

1-FOREMAN

3-CAT-OPERATORS

2-SHOVEL-OPR

2-OILERS

2-DRILLERS

1-POWDER-MAN

6-TRUCK-DRIVERS

1-WELDER

6-LAB

(75-LOADS=500 CU.YDS)

(1202 CU.YDS)  
TOTAL

BODENHAMER 1-FOREMAN

5-LAB

1-TRUCK-8DRIVER

1-CARPENTER

1-OFFICE-MAN

MIRACLE  
DRILLING  
ANCHOR  
HOLES

START 1:30 P.M.

1-FOREMAN

1-AIR-COMPR

1-CAT-

3-DRILLERS-4-HRS.

KNAPP

2-75-CATS

1-CARRYALL

NO-2

5-TRUCKS

1-BULLDOZER

7-30-34

1-ROOTER

2-SHOVELS

12-7 P.M.

1-AIR-COMPR

TRUCK

LOADS

159-400 CU.YDS

1-FOREMAN

3-CAT-OPR

2-SHOVEL-OPR

2-OILERS

2-DRILLERS

1-POWDER-MAN

5-LAB

5-TRUCK-DRIVERS.

(74-LOADS=496 CU.YDS)

(896 CU.YDS)

KNAPP

2-75-CATS

NO 3

2-CARRYALLS

1-ROOTER

1-AIR-COMPR

7-30-34

1-FOREMAN

3-CAT-OPR

2-DRILLERS

1-LAB.

(70-LOADS=462 CU.YDS)

8 P.M TO 3 A.M.

(2560 CU.YDS)  
TOTAL

STA 7440 &amp; 19750

31

KNAPP

2-75-CATS

NO-1

2-CARRYALLS

1-ROOTER

1-SHOVEL

7-31-34

3-TRUCKS

1-AIR-COMPR

TRUCK

LOADS

(87-225 CU.YDS)

1-FOREMAN

3-CAT-OPR.

1-SHOVEL-OPR.

1-OILER

3-TRUCK-DRIVERS

2-DRILLERS

1-POWDER-MAN

1-WELDER.

7-LAB-

(90-LOADS=600 CU.YDS)

(825 CU.YDS)  
TOTAL

BODENHAMER 1-FOREMAN

6-LAB.

1-TRUCK-1-DRIVER

2-CARPENTERS

1-OFFICE-MAN

MIRACLE

DRILLING

GROUT

HOLES

1-AIR-COMPR

1-FOREMAN

3-DRILLERS

KNAPP

NO-2

2-75-CATS

7-31-34

2-CARRYALLS

1-ROOTER

1-BULLDOZER-4-H

1-SHOVEL

5-TRUCKS

1-AIR-COMPR.

TRUCK

LOADS.

(84-220 CU.YDS)

1-FOREMAN

3-CAT-OPR

2-SHOVEL-OPR

1-OILER

3-TRUCK-DRIVERS

2-DRILLERS

1-POWDER-MAN

5-LAB

(84-LOADS=563 CU.YDS)

KNAPP

2-75-CATS

NO-3

2-CARRYALLS

1-BULLDOZER

1-ROOTER

7-31-34

1-AIR-COMPR

1-FOREMAN

3-CAT-OPR

2-DRILLERS

1-LAB-

(9100 CU.YDS)  
TOTAL

(75-LOADS=500 CU.YDS)

(283  
TOTAL)

STA-7440-15450

KNAPP 2-75-CATS 1-FOREMAN  
 2-CARRYALLS 3-CAT-OPR.  
 NO-1 1-BULLDOZER 1-SHOVEL-OPR  
 1-ROOTER 1-OILER  
 8-1-34 1-SHOVEL 2-TRUCK-DRIVERS  
 2-TRUCKS 2-DRILLERS  
 HAM-11AM 1-AIR-COMPR 1-POWDER-MAN  
 TRUCK LOADS 1-WELDER  
 111-280 CU.YDS 8-LAB  
 70-LOADS-462 CU.YDS

BODENHAMER 1-FOREMAN  
 1-OFFICE-MAN  
 2-CARPENTERS  
 1-TRUCK-DRIVER  
 6-LAB.

742 CU.YDS  
 TOTAL

MIRACLE Co. 1-FOREMAN 3.5 HRS  
 DRILLING 3-DRILLERS 3.5 "  
 GROUT HOLES 1-AIR-COMPR. 3.5 "

KNAPP 2-75-CATS 1-FOREMAN  
 2-CARRYALLS 3-CAT-OPR.  
 NO-2 1-BULLDOZER 1-SHOVEL-OPR  
 1-ROOTER 1-OILER  
 8-1-34 1-SHOVEL 2-TRUCK-DRIVERS  
 2-TRUCKS 2-DRILLERS  
 12-TO 7 P.M. 1-AIR-COMPR 1-POWDER-MAN  
 TRUCK LOADS 7-LAB.  
 115-288 CU.YDS 54-356 CU.YDS

644 CU.YDS  
 TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
 2-CARRYALLS 3-CAT-OPR  
 NO-3 1-BULLDOZER 2-DRILLERS  
 1-ROOTER  
 8-1-34 1-AIR-COMPR 1-LAB.

8 P.M.-3 A.M. 1848 CU.YDS  
 TOTAL

70-LOADS 462 CU.YDS

STA 7440-15450

32

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALLS 3-CAT-OPR  
 NO-1 1-BULLDOZER 1-SHOVEL-OPR  
 1-ROOTER 1-OILER  
 8-2-34 1-SHOVEL 2-DRILLERS  
 3-TRUCKS 1-POWDER-MAN  
 HT 11AM 1-AIR-COMPR 1-WELDER  
 TRUCK LOADS 3-TRUCK-DRIVERS  
 155-400 CU.YDS 8-LAB  
 45-LOADS-300 CU.YDS

BODENHAMER 1-FOREMAN  
 2-CARPENTERS  
 NO-1 1-OFFICE-MAN  
 1-TRUCK-DRIVER  
 6-LAB.

700 CU.YDS  
 TOTAL

MIRACLE Co. 1-FOREMAN  
 GROUT HOLES 3-DRILLERS  
 1-AIR-COMPR.

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR.  
 NO-2 1-BULLDOZER 1-SHOVEL-OPR  
 1-ROOTER 1-OILER  
 8-1-34 1-SHOVEL 2-DRILLERS  
 3-TRUCKS 1-POWDER-MAN  
 12M TO 7 P.M. 1-AIR-COMPR. 3-TRUCK-DRIVERS  
 TRUCK LOADS 7-LAB.  
 120-312 CU.YDS 50-LOADS-330 CU.YDS

642 CU.YDS  
 TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO-3 1-BULLDOZER 2-DRILLERS  
 1-ROOTER 1-LAB.  
 8-2-34 1-AIR-COMPR 30-LOADS-200 CU.YDS

1342 CU.YDS  
 TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO 1 1-BULLDOZER 2-SHOVEL-OPR  
 1-ROOTER 2-OILER  
 8-3-34 1-SHOVEL 3-TRUCK-DRIVERS  
 3-TRUCKS 2-DRILLERS  
 11-11 A.M. 1-AIR-COMPR 1-POWDER-MAN  
 TRUCK  
 LOADS  
 156-390 CU.YDS  
 1-WELDER  
 8-LAB  
 48-LOADS 317-CU.YDS

707 CU.YDS  
TOTAL

BODENHAMER 1-FOREMAN  
 2-CARPENTERS  
 NO-1- 1-OFFICE-MAN  
 1-TRUCK & DRIVER  
 6-LAB.

MIRACLE CO. 1-FOREMAN  
 3-DRILLERS  
 1-AIR-COMPR.

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALLS 3-CAT-OPR  
 NO-2 1-BULLDOZER 2-SHOVEL-OPR  
 1-ROOTER 2-OILER  
 8-3-34 1-SHOVEL 3-TRUCK-DRIVERS  
 3-TRUCKS 2-DRILLERS  
 12-7 P.M. 1-AIR-COMPR 1-POWDER-MAN  
 TRUCK  
 LOADS  
 346 CU.YDS  
 4-LAB  
 42-LOADS-280 CU.YDS

626  
TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO-3- 1-BULLDOZER 2-DRILLERS  
 1-ROOTER  
 8-3-34 1-AIR-COMPR 1-LAB  
 42-LOADS-280 CU.YDS  
 8-34.71. 1613 CU.YDS  
 TOTAL

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO 1 1-BULLDOZER 2-SHOVEL-OPR  
 2-SHOVELS 2-OILERS  
 8-4-34 5-TRUCKS 5-TRUCK-DRIVERS  
 1-AIR-COMPR 2-DRILLERS  
 11-9 A.M. 1-ROOTER 1-POWDER-MAN  
 TRUCK  
 LOADS  
 188-488 CU.YDS  
 1-WELDER  
 8-LAB.  
 42-280-CU.YDS

768 CU.YDS  
TOTAL

BODENHAMER 1-FOREMAN  
 3-CARPENTERS  
 1-OFFICE-MAN  
 1-TRUCK & DRIVER  
 6-LAB.

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO-2 1-BULLDOZER 2-SHOVEL-OPR 1-2.5-HRS  
 1-ROOTER 2-OILERS  
 8-4-34 2-SHOVELS 5-TRUCK-DRIVERS-2-2.5H  
 5-TRUCKS-2-2.5H. 2-DRILLERS  
 9 AM-2 PM 1-AIR-COMPR. 1-POWDER-MAN  
 TRUCK  
 LOADS  
 101-262 CU.YDS  
 4-LAB  
 12-LOADS-80 CU.YDS  
 342 CU.YDS  
 TOTAL

KNAPP 1-AIR-COMPR 1-FOREMAN  
 NO-3 3-CAT-OPR  
 REPAIRS- 2-DRILLERS  
 8-4-34 1-LAB

1110 CU.YDS  
TOTAL

1-PUMP-MAN STA-7+40-15+50  
WATCHMAN-- 8-5-34 7.5 HRS  
4-34 8.5 HRS  
11.5 HRS

KNAPP 2-75-CATS 1-FOREMAN  
NO-1 1-CARRYALL 3-CAT-OPR.  
8-6-34 1-BULLDOZER 2-SHOVEL-OPR  
1-ROOTER 2-OILERS  
4 TO 11 AM 2-SHOVELS 2-DRILLERS  
5-TRUCKS 1-POWDER-MAN  
1-AIR-COMPR 5-TRUCK-DRIVERS  
TRUCK 1-WELDER  
LOADS 8-LAB  
(217-564 CU.YDS) (LOADS-42-277 CU.YDS)

BODENHAMER 1-FOREMAN (84 CU.YDS)  
- 2-CARPENTERS  
NO-1 1-OFFICE-MAN  
1-TRUCK DRIVER  
8-6-34 5-LAB

MIRACLE 1-FOREMAN-7 TO-3<sup>30</sup> PM  
DRILLING 3-LAB  
GROUT 1-DRILLER-GROUTING ✓  
HOLES 1-AIR-COMPR.  
NO-1  
8-6-34

KNAPP 2-75-CATS 1-FOREMAN  
NO2 1-CARRYALL 3-CAT-OPR  
1-BULLDOZER 2-SHOVEL-OPR  
1-ROOTER 2-OILERS  
8-6-34 2-SHOVELS 5-TRUCK DRIVERS  
5-TRUCKS 1-DRILLERS  
1-AIR-COMPR 1-POWDER-MAN  
TRUCK 4-LAB  
LOADS (38-LOADS-250 CU.YDS)  
(211-570 CU.YDS) (461-0 CU.YDS TOTAL)

KNAPP 2-75-CATS- 1-FOREMAN  
NO-3 1-CARRYALL 3-CAT-OPR  
1-BULLDOZER 2-DRILLERS  
1-ROOTER 2-LAB  
8-6-34 1-AIR-COMPR 50-LOADS (330-CU.YDS TOTAL)  
8 PM-3 AM (1632 CU.YDS TOTAL)

STA 7+40 - 19+00

34

KNAPP 2-75-CATS 1-FOREMAN  
NO1 1-CARRYALL 3-CAT-OPR  
1-BULLDOZER 2-SHOVEL-OPR  
1-ROOTER 2-OILER  
8-7-34 2-SHOVEL 5-TRUCK-DRIVERS  
6-TRUCKS 2-DRILLERS  
1-AIR-COMPR 1-POWDER-MAN  
TRUCK 1-WELDER  
LOADS 8-LAB  
(256-666 CU.YDS) (48-LOADS-317 CU.YDS)

BODENHAMER 1-FOREMAN (983-CU.YDS TOTAL) ✓  
2-CARPENTERS  
NO-1 1-OFFICE-MAN  
1-TRUCK & DRIVER  
8-7-34 4-LAB

MIRACLE 1-FOREMAN (2 MEN CROUTING)  
2-LAB 1-DRILLER-FELL-FROM-SCAFFOLD  
1-DRILLER SLID-25'-NOT-INJURED  
1-AIR-COMPR.

KNAPP 2-75-CATS 1-FOREMAN  
NO-2 1-CARRYALL 3-CAT-OPR  
1-BULLDOZER 2-SHOVEL-OPR  
1-ROOTER 2-OILERS  
8-7-34 2-SHOVEL 3-TRUCK DRIVERS  
3-TRUCKS 2-DRILLERS  
1-AIR-COMPR 2-LAB  
TRUCK 1-POWDER-MAN  
LOADS (106-265 CU.YDS) (42-LOADS-252 CU.YDS)

KNAPP 1-AIR-COMPR 2-DRILLERS (517 CU.YDS TOTAL)  
NO-3 2-LAB  
8-7-34 (1500 CU.YDS TOTAL)  
8 PM-2 AM

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO-1 1-BULLDOZER 2-SHOVEL-OPR  
 1-ROOTER 2-OILERS  
 8-8-34 1-AIR-COMPR 2-DRILLERS  
 2-SHOVELS 1-POWDER-MAN  
 HTOHAM. 3-TRUCKS 1-WELDER  
 TRUCK LOADS 3-TRUCK-DRIVERS  
 100-250 CU.YDS 12-LAB  
 LOADS-36-200 CU.YDS

BODENHAMER 1-FOREMAN 600 CU.YDS  
 2-CARPENTERS TOTAL  
 1-OFFICE-MAN  
 1-TRUCK-DRIVER  
 6-LAB.

MIRACLE 1-FOREMAN (7 SACKS CEMENT)  
 1-AIR-COMPR  
 2-DRILLERS  
 2-LAB.

KNAPP 2-75-CATS 1-FOREMAN  
 1-BULLDOZER 3-CAT-OPR  
 NO-2 1-ROOTER 2-SHOVEL-OPR  
 2-SHOVEL 2-OILERS  
 8-8-34 4-TRUCKS 2-DRILLERS  
 1-AIR-COMPR 1-POWDER-MAN  
 TRUCK-LOADS 2-LAB  
 163-407 CU.YDS 4-TRUCK-DRIVERS  
 647 CU.YDS TOTAL 40-LOADS-946 CU.YDS  
 1247-CU.YDS TOTAL

KNAPP 1-AIR-COMPR-2-DRILLERS  
 NO-3 2-LAB  
 8-8-34

KNAPP 2-75-CATS 1-FOREMAN  
 2-CARRYALLS 3-CAT-OPR  
 NO-1 2-SHOVEL-OPR  
 2-SHOVELS 2-OILERS  
 8-9-34 4-TRUCKS 4-TRUCK-DRIVERS  
 1-AIR-COMPR 2-DRILLERS  
 HTOHAM. TRUCK LOADS 1-POWDER-MAN  
 143-360 CU.YDS 1-WELDER  
 12-LAB  
 66-LOADS=400 CU.YDS

BODENHAMER 1-FOREMAN  
 2-CARPENTERS 800-CU.YDS  
 1-9-34 11-LAB TOTAL  
 1-MECHANIC  
 1-TRUCK-DRIVER  
 1-OFFICE-MAN

MIRACLE 1-FOREMAN (6 SACKS-CEMENT)  
 1-AIR-COMPR  
 2-DRILLERS  
 2-LAB

KNAPP 2-75-CATS 1-FOREMAN  
 2-CARRYALLS 3-CAT-OPR  
 NO-2 1-BULLDOZER 2-SHOVEL-OPR  
 2-SHOVELS 2-OILERS  
 8-9-34 3-TRUCKS 3-TRUCK-DRIVERS  
 1-AIR-COMPR 2-DRILLERS  
 TRUCK LOADS 1-POWDER-MAN  
 129-322 CU.YDS 2-LAB  
 60=360 CU.YD SHOVEL  
 100 CU.YDS

KNAPP 1-AIR-COMPR 2-DRILLERS  
 NO-3 2-LAB

8-9-34 1582 CU.YDS TOTAL  
 8 AM TO 3 AM

KNAPP	2-26-CATS	1-FOREMAN
	2-CARRYALL	3-CAT-OPR
NO-1	1-BULLDOZER	2-SHOVEL-OPR
	1-ROOTER	2-OILERS
8-10-34	2-SHOVELS	3-TRUCK DRIVERS
	2-TRUCKS	2-DRILLERS
4 TO 11 AM	1-AIR-COMPR	1-POWDER-MAN
	TRUCK LOADS	1-WELDER
	63=260	12-LAB
	15 SHOVEL	
BODENHAMER	1-FOREMAN	48-LOADS-288-CU.YDS
	2-CARPENTERS	
NO1	12-LAB	
	1-MECHANIC	
8-10-34	1-TRUCK & DRIVER	
	1-OFFICE-MAN	
	1-TEAM & DRIVER	
MIRACLE	1-FOREMAN	
NO-1		
GRAUTING	2-2 LAB.	
ANCHORS	4-SACKS CEMENT	
KNAPP	2-26-CATS	1-FOREMAN
	1-CARRYALL	3-CAT-OPR
NO2	1-BULLDOZER	2-SHOVEL-OPR
	1-ROOTER	2-OILERS
8-10-34	2-SHOVELS	3-TRUCK-DRIVERS
	3-TRUCKS	2-DRILLERS
12-7 PM.	1-AIR-COMPR.	1-POWDER-MAN
	TRUCK SHOVEL LOADS	2-LAB.
	196-490 CU.YD	72-LOADS 432 CU.YDS
KNAPP	1-AIR-COMPR	2-DRILLERS
NO-3		2-LAB.
8-10-34		1560 CU.YDS TOTAL
8 TO 3 AM		

KNAPP	2-26-CATS	1-FOREMAN
	1-CARRYALL	3-CAT-OPR
NO-1	1-BULLDOZER	2-SHOVEL-OPR
	2-SHOVELS	2-OILERS
8-11-34	4-TRUCKS	4-TRUCK-DRIVERS
	1-AIR-COMPR	2-DRILLERS
4 TO 9 AM	1-ROOTER	1-POWDER-MAN
	TRUCK LOADS	1-WELDER
	180=450-CU.YDS	10-LAB.
		30-LOADS-180 CU.YDS
BODENHAMER	1-FOREMAN	630 CU.YDS TOTAL
	1-CARPENTERS	
NO-1	1-MECHANIC	
	10-LAB	
8-11-34	1-TRUCK & DRIVER	
	1-TEAM & DRIVER	
	1-OFFICE-MAN	
KNAPP	2-26-CATS	1-FOREMAN
	2-CARRYALL	3-CAT-OPR.
NO-2	1-BULLDOZER	2-SHOVEL-OPR
	1-ROOTER	2-OILERS
8-11-34	2-SHOVELS	5-TRUCK-DRIVERS
	5-TRUCKS	3-DRILLERS
9-2 PM.	1-AIR-COMPR.	1-POWDER-MAN
	TRUCK LOADS	2-LAB
	190=475-CU.YDS	LOADS-50=300 CU.YDS
KNAPP	1-AIR-COMPR	2-DRILLERS
NO-3		2-LAB.
8-11-34		1405-CU.YDS TOTAL
8 TO 7 <sup>30</sup>		
WATCHMAN	8-11-34-13 HRS	
"	8-12 34-8.5 HRS.	

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO-1 1-BULLDOZER 2-SHOVEL-OPR  
 1-ROOTER 2-OILERS  
 8-13-34 2-SHOVELS 5-TRUCK-DRIVERS  
 5-TRUCKS 2-DRILLERS  
 HAMTOLLAM 1-AIR-COMPR 1-POWDER-MAN  
 TRUCK LOADS 1-WELDER  
 208-520 CU.YDS 2-LAB

BODENHAMER 1-FOREMAN  
 1-CARPENTERS  
 NO-1 1-MECHANIC  
 1-TEAM-DRIVER  
 8-13-34 1-TRUCK-DRIVER  
 1-OFFICE-MAN  
 7<sup>30</sup> TO 3<sup>30</sup> 14-LAB.

CHAMBERS ~~FOREMAN~~  
 8-13-34 1-LAB  
 NO-1 ~~GRONING~~

KNAPP 2-75-CATS 1-FOREMAN  
 1-BULLDOZER 3-CAT-OPR  
 1-CARRYALL 2-SHOVEL-OPR  
 NO-2 1-ROOTER 2-OILERS  
 2-SHOVELS 5-TRUCK-DRIVERS  
 8-13-34 5-TRUCKS 2-DRILLERS  
 1-AIR-COMPR 1-POWDER-MAN  
 TRUCK LOADS 2-LAB  
 12MT TO 7PM 271-680 CU.YDS

KNAPP 1-AIR-COMPR 2-DRILLERS  
 NO-3  
 8-13-34 2-LAB

8PM-3AM. 1200-CU.YDS L  
 TOTAL

KNAPP 2-75-CATS. 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO-1 1-BULLDOZER 1-SHOVEL-OPR  
 1-ROOTER 1-OILER  
 8-14-34 1-SHOVEL 2-DRILLERS  
 1-AIR-COMPR 1-POWDER-MAN  
 HTOLLAM 4-TRUCK 1-WELDER  
 TRUCK LOADS 18-LAB  
 187-476 CU.YDS 4-TRUCK-DRIVERS  
 20-LOADS-125-CU.YDS

600 CU.YDS  
 TOTAL

BODENHAMER 1-FOREMAN - 1-AIR-COMPR  
 1-CARR  
 7<sup>30</sup> TO 3<sup>30</sup> 1-MECHANIC  
 1-TEAM-DRIVER  
 1-TRUCK-DRIVER  
 1-ELECTRICIAN  
 14-LAB  
 1-CRANE-OPR  
 1-OFFICE-MAN  
 1-OILER

KNAPP 2-75-CATS. 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO-2 1-BULLDOZER 2-SHOVEL-OPR  
 1-ROOTER 2-OILERS  
 8-14-34 1-SHOVEL 2-DRILLERS  
 4-TRUCKS 1-POWDER-MAN  
 4-TRUCK-DRIVERS  
 1-AIR-COMPR 2-LAB  
 TRUCK LOADS 12-LOADS-75 CU.YDS  
 181-452 CU.YDS 577 CU.YDS  
 TOTAL

KNAPP 1-AIR-COMPR 2-DRILLERS

NO-2 2-LAB

8-14-34

1127-CU.YDS L  
 TOTAL

7440-2300

KNAPP	2-75-CATS	1-FOREMAN
	1-CARRYALL	3-CAT-OPR
NO-1	1-BULLDOZER	2-SHOVEL-OPR
	1-ROOTER	2-OILERS
8-15-34	1-SHOVEL	4-TRUCK-DRIVERS
	4-TRUCKS	2-DRILLERS
HAM.TOLLAM	1-AIR-COMPR	1-POWDER-MAN
	TRUCK LOADS	1-WELDER
	230 x 625 CU.YDS	10-LAB
		30 LOADS 176 CU.YDS

800 CU.YDS  
TOTAL

BODENHAMER	1-TEAM	1-FOREMAN
		1-CARPENTER
NO-1	2-TRUCKS	1-TRUCK-DRIVER
		1-TEAMSTER
8-15-34	1-CRANE	1-MECHANIC
		1-CRANE-OPR
7 <sup>30</sup> -TO 3 <sup>30</sup>		1-OFFICE-MAN
		13-LAB
		2-DRILLERS

KNAPP	2-75-CATS	1-FOREMAN
	1-CARRYALL	3-CAT-OPR
NO-2	1-BULLDOZER	2-SHOVEL-OPR
	1-ROOTER	2-OILERS
8-15-34	1-SHOVEL	4-TRUCK-DRIVERS
	4-TRUCKS	2-DRILLERS
12M TO 7 P.M.	1-AIR-COMPR	1-POWDER-MAN
	TRUCK LOADS	2-LAB
	191-478 CU.YDS	4-LOADS-38 CU.YDS

503 CU.YDS

KNAPP		
NO-3	1-AIR-COMPR	2-DRILLERS
8-15-34		2-LAB

1300 CU.YDS  
TOTAL

7440-15450 POWDER-RECD.

38

KNAPP	1-75-CAT	1-FOREMAN
	1-BULLDOZER	3-CAT-OPR
NO-1	1-ROOTER	1-SHOVEL-OPR
	1-SHOVEL	1-OILER
8-16-34	3-TRUCKS	3-TRUCK-DRIVERS
		2-DRILLERS
H.TOLLAM	1-AIR-COMPR	1-POWDER-MAN
		1-WELDER
		16-LAB

BODENHAMER	1-TEAM	1-FOREMAN
		1-CARPENTER
NO-1	2-TRUCK	1-TRUCK-DRIVER
	1-CRANE	1-TEAMSTER
	1-AIR-COMPR	1-MECHANIC
		1-CRANE-OPR
	(2 CU.YDS)	1-OFFICE-MAN
		14-LAB
		2-DRILLERS

KNAPP	1-75-CAT	1-FOREMAN
	1-BULLDOZER	3-CAT-OPR
NO-2	1-ROOTER	2-SHOVEL-OPR
	1-SHOVEL	2-OILERS
8-16-34	3-TRUCKS	2-DRILLERS
	1-AIR-COMPR	1-POWDER-MAN
8 TO 7 P.M.		2-LAB
		3-TRUCK-DRIVERS

KNAPP	1-AIR-COMPR	1-DRILLERS
NO-3		2-LAB

8-16-34

8 P.M. - 3 A.M.

800 CU.YDS  
TOTAL



KNAPP 1-75-CAT 1-FOREMAN  
 1-BULLDOZER 3-CAT-OPR  
 NO-1 1-ROOTER 1-SHOVEL-OPR  
 1-SHOVEL 1-OILER  
 8-17-34 3-TRUCKS 3-TRUCK-DRIVERS  
 1-AIR-COMPR 2-DRILLERS  
 4 TO 11 A.M. 1-CARRYALL 1-POWDER-MAN  
 TRUCK LOADS 1-WELDER  
 (135-337 CU.YDS) 10-LAB

BODENHAMER 1-SHOVEL 1-FOREMAN  
 1-TRUCK 1-CARPENTER  
 1-TEAM-HORSES 1-TRUCK-DRIVER  
 1-AIR-COMPR 1-TEAMSTER  
 1-MECHANIC  
 1-SHOVEL-OPR  
 2-DRILLERS  
 1-OFFICE-MAN  
 12-LAB  
 1-OILER

KNAPP 1-75-CAT 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO-2 1-BULLDOZER 1-SHOVEL-OPR  
 1-SHOVEL 1-OILER  
 8-17-34 2-TRUCKS 2-DRILLERS  
 1-AIR-COMPR 1-POWDER-MAN  
 TRUCK LOADS 1-LAB  
 12 TO 7 P.M. (74-256 CU.YDS) 2-TRUCK-DRIVERS  
 1-MECHANIC

(95-LOADS = 200 CU.YDS)

KNAPP 1-PUMP-MAN  
 NO-3 1-LAB  
 8-17-34

8 P.M. TO 3 A.M. (822 CU.YDS TOTAL)

MR. WOOD NOTIFIED AS TO FACILITY DISTRIBUTION

KNAPP 1-75-CAT 1-FOREMAN  
 1-BULLDOZER 3-CAT-OPR  
 1-CARRYALL 1-SHOVEL-OPR  
 NO-1 1-SHOVEL 1-OILER  
 2-TRUCKS 2-DRILLERS  
 8-18-34 1-AIR-COMPR 1-POWDER-MAN  
 TRUCK LOADS 1-WELDER  
 4 TO 9 A.M. (87-217 CU.YDS) 9-LAB  
 1-MECHANIC

BODENHAMER 1-TEAM 1-FOREMAN  
 1-AIR-COMPR 1-CARPENTER  
 1-SHOVEL 1-SHOVEL-OPR  
 1-TRUCK 1-TRUCK-DRIVER  
 1-TEAMSTER  
 1-MECHANIC  
 1-OFFICE-MAN  
 2-DRILLERS  
 8-LAB

KNAPP 1-75-CAT 1-FOREMAN  
 1-BULLDOZER 3-CAT-OPR  
 NO-2 1-CARRYALL 1-SHOVEL-OPR  
 1-SHOVEL 1-OILER  
 8-18-34 3-TRUCKS 2-DRILLERS  
 1-AIR-COMPR 3-LAB  
 TRUCK LOADS 3-TRUCK-DRIVERS  
 9 TO 2 P.M. (143-357 CU.YDS) 1-POWDER-MAN

(50-LOADS = 300 CU.YDS)

KNAPP NO-3

8-18-34

(874 CU.YDS TOTAL)

NIGHT-WATCH-8-18-34-15-HRS  
 " 8-19-34-8.5-HRS  
 " "

STA-9400-2200

CONTRACTOR-SPOKE-TO- ABOUT

2.6% ROCK

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO1 1-BULLDOZER 1-SHOVEL-OPR  
 1-ROOTER 1-OILER  
 8-20-34 1-SHOVEL 2-TRUCK-DRIVERS  
 2-TRUCKS 2-DRILLERS  
 1-AIR-COMPR 1-POWDER-MAN  
 89-222-CU.YDS 1-WELDER (40-940 CU. YDS)  
 (SHIFT) 9-LAB

BODENHAMER NO-1-1-AIR-COMPR-2-DRILLERS-2-LAB

BODENHAMER 1-CRANE- 1-FOREMAN  
 2-TEAMS 1-CARPENTER  
 NO2 1- 2-TEAMSTER  
 1-MECHANIC  
 8-20-34 1-CRANE-OPR

1-OFFICEMAN  
 1-TRUCK-DRIVER  
 15-LAB

(SHIFT) BODENHAMER NO-3-1-AIR-COMPR-2-DRILLERS-2-LAB

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 1-3-CAT-OPERATORS  
 NO-2 1-SHOVEL-OPR  
 1-ROOTER 1-OILER  
 8-20-34 1-SHOVEL 2-TRUCK-DRIVER  
 2-TRUCKS 2-DRILLERS  
 1-AIR-COMPR 1-POWDER-MAN  
 90-LOADS 3-LAB  
 (225-CU.YDS) (200-CU.YDS)

425-

462

887

TOTAL

STA 9400-2200

40

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO-1 1-ROOTER 1-SHOVEL-OPR  
 1-SHOVEL 1-OILER  
 8-21-34 2-TRUCKS 2-TRUCK-DRIVERS  
 4 T.O.H.A.M. 1-AIR-COMPR. 2-DRILLERS  
 TRUCK 1-POWDER-MAN  
 LOADS 1-WELDER  
 (90-225 CU.YDS) 9-LAB

40-LOADS-240 CU.YDS

BODENHAMER 1-AIR-COMPR 2-DRILLERS (465 CU.YDS TOTAL)  
 2-LAB

NO-1  
 8-21-34  
 NO-2 1-CRANE 1-FOREMAN  
 8-21-34 2-TEAMS 1-CARPENTER  
 2-TRUCKS 2-TEAMSTERS  
 1-MECHANIC  
 1-CRANE-OPR  
 1-OFFICEMAN  
 2-TRUCK-DRIVERS  
 16-LAB

BODENHAMER

NO-3 1-AIR-COMPR 2-DRILLERS  
 1-LAB

8-21-34

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO-2 1-ROOTER 1-SHOVEL-OPR  
 1-SHOVEL 1-OILER  
 8-21-34 1-AIR-COMPR 2-TRUCK-DRIVERS  
 2-TRUCKS 2-DRILLERS  
 1-POWDER-MAN  
 14-7 P.M. 3-LAB  
 (50-LOADS=300 CU.YDS)

(765-CU.YDS TOTAL)

STA-9+00-21+00

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO-1 1-ROOTER 1-SHOVEL-OPR  
 - 1-OILER  
 8-22-34 1-AIR-COMPR 2-DRILLERS  
 1-POWDER-MAN  
 4-11 A.M. 1-WELDER  
 7-LAB

BODENHAMER 1-AIR-COMPR 2-DRILLERS  
 NO-1 2-LAB  
 8-22-34

BODENHAMER 1-AIR-COMPR 1-FOREMAN  
 NO-2 2-TEAMS 1-CARPENTER  
 8-22-34 1-CRANE 2-TEAMSTERS  
 1-TRUCK 1-MECHANIC  
 1-TRUCK-DRIVER  
 1-CRANE-OPR  
 1-OFFICE-MAN  
 16-LAB

BODENHAMER 1-AIR-COMPR 2-DRILLERS  
 NO-3 2-LAB  
 8-22-34

KNAPP 2-75-CATS 1-FOREMAN  
 NO-2 1-CARRYALL 3-CAT-OPR  
 8-22-34 1-ROOTER 1-SHOVEL-OPR  
 1-AIR-COMPR 1-OILER  
 12 M TO 7 P.M. 2-DRILLERS  
 1-POWDER-MAN  
 2-LAB

MIRACLE CO 2-DRILLERS-6-HRS-1-FOREMAN  
 NO-1  
 8-22-34 INSTALLING-AIR-LINE.

400 cu. yds  
 TOTAL

STA-9+50-21+00

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KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO-1 1-ROOTER 2-SHOVEL-OPR IN-REP.  
 1-AIR-COMPR. 2-OILERS " "  
 8-23-34 1-MECHANIC " "  
 2-DRILLERS  
 4 TO 11 A.M. 1-POWDER-MAN  
 1-WELDER  
 7-LAB. (250-CU.YDS)

BODENHAMER 1-AIR-COMPR 2-DRILLERS  
 NO-1 2-LAB  
 8-23-34

NO-2 1-AIR-COMPR 1-FOREMAN  
 2-TEAMS 1-CARPENTER  
 8-23-34 1-CRANE 1-CRANE-OPR  
 2-TRUCKS. 1-MECHANIC  
 1-WELDER  
 2-TRUCK-DRIVERS  
 1-OFFICE-MAN  
 24-LAB  
 2-TEAMSTERS  
 NO-3 1-AIR-COMPR 2-DRILLERS  
 8-23-34 4-LAB

MIRACLE CO 1-AIR-COMPR 1-FOREMAN  
 NO-1 2-DRILLERS  
 8-23-34 2-LAB

KNAPP 2-75-CATS 1-FOREMAN  
 1-CARRYALL 3-CAT-OPR  
 NO-2 1-ROOTER 1-SHOVEL-OPR  
 1-AIR-COMPR 1-OILER  
 8-23-34 2-DRILLERS  
 1-POWDER-MAN  
 2-LAB

400 cu. yds  
 TOTAL

8740-2200 POWDER-REC'D

KNAPP	2-75-CATS 1-CARRYALL	1-FOREMAN 3-CAT-OPR
NO-1	1-ROOTER 1-SHOVEL	1-SHOVEL-OPR 1-OILER
8-24-34	2-TRUCKS 1-AIR-COMPR TRUCK LOADS	2-TRUCK-DRIVERS 2-DRILLERS 1-POWDER-MAN 1-WELDER
	110-275-CU.YDS	6-LAB 40-LOADS-260-CU.YDS
	540-CU.YDS TOTAL	

BODENHAMER	1-AIR-COMPR	2-DRILLERS
NO-1		2-LAB.
8-24-34		

BODENHAMER	1-AIR-COMPR	1-FOREMAN
NO-2	2-TEAMS	1-CARPENTER
8-24-34	1-TRUCKS 1-CRANE	1-CRANE-OPR 1-MECHANIC 1-WELDER 2-TRUCK-DRIVERS 2-TEAMSTERS 1-OFFICE-MAN 2-LAB

BODENHAMER	1-AIR-COMPR	2-DRILLERS
NO-3		2-LAB
8-24-34		

MIRACLE GO	1-AIR-COMPR	1-FOREMAN
NO-1	3-SACKS-CEMENT	2-DRILLERS 1-STEEL-MAN
8-24-34		
8-AM-4 <sup>30</sup> -PM		

KNAPP	2-75-CATS 2-CARRYALL	1-FOREMAN 3-CAT-OPR
NO-3	1-ROOTER 1-SHOVEL	1-SHOVEL-OPR 1-OILER
8-24-34	2-TRUCKS 1-AIR-COMPR	2-DRILLERS 1-POWDER-MAN 3-LAB
	95-LOADS-260-CU.YDS	500-CU.YDS

1300-CU.YDS  
TOTAL

760

8740-2200  
1-NICHT-WATCH-8-HRS.-

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KNAPP	2-75-CATS 1-ROOTER	1-FOREMAN 3-CAT-OPR
NO-1	2-CARRYALLS 1-SHOVEL	1-SHOVEL-OPR 1-OILER
8-25-34	2-TRUCKS 1-AIR-COMPR TRUCK LOADS	2-DRILLERS 1-POWDER-MAN 1-WELDER
4 TO 9 AM	(80-200 CU.YDS)	4-LAB 42-252 CU.YDS
	452-CU.YDS TOTAL	

BODENHAMER	1-AIR-COMPR	2-DRILLER
NO-1		2-LAB
8-25-34		

BODENHAMER	1-AIR-COMPR	1-FOREMAN
NO-2	2-TEAMS	1-MECHANIC
8-25-34	2-TRUCKS 1-CRANE	1-CARPENTER 1-CRANE-OPR 2-TEAMSTERS 1-OFFICE-MAN 2-TRUCK-DRIVERS 2-LAB

BODENHAMER	1-AIR-COMPR	2-DRILLERS
NO-3		2-LAB
8-25-34		

MIRACLE	1-AIR-COMPR	1-FOREMAN
NO-1	2-SACKS-CEMENT	2-DRILLERS
8-25-34		

KNAPP	2-75-CATS 2-CARRYALLS	1-FOREMAN 3-CAT-OPR
NO-2	1-SHOVEL	1-SHOVEL-OPR
8-25-34	1-AIR-COMPR	1-OILER
9 TO 2 PM	2-TRUCKS TRUCK LOADS	2-DRILLERS 1-POWDER-MAN 2-TRUCK-DRIVERS 3-LAB
	89-222-CU.YDS	402-CU.YDS 452 854 CU.YDS TOTAL
		30-180-CU.YDS

STA 9+00 - 22+50

KNAPP 2-75-CATS 1-FOREMAN  
 NO-1 1-CARRYALL 3-CAT-OPR  
 8-27-1984 1-ROOTER 1-SHOVEL-OPR  
 1-SHOVEL 1-OILER  
 4-11 A.M. 2-TRUCK-DRIVERS  
 2-TRUCKS 2-DRILLERS  
 1-AIR-COMPR 1-POWDER-MAN  
 1-BULLDOZER TRUCK 1-WELDER  
 LOADS 4-LAB  
 136 = 340 cu. yds

BODENHAMER 2-AIR-COMPR 8-LAB  
 NO-1  
 8-27-34  
 5-TO-12:30

BODENHAMER 1-CRANE 1-FOREMAN  
 NO-2 2-TEAMS 1-CARPENTER  
 8-27-34 2-TRUCKS 1-CRANE-OPR  
 7:30 TO 3:30 PM 1-MECHANIC  
 2-TEAMSTERS  
 1-OFFICE MAN  
 2-TRUCK DRIVERS  
 24-LAB

BODENHAMER 2-AIR-COMPR 8-LAB  
 NO-3  
 8-27-34  
 1:15 TO 7:30

BODENHAMER 2-AIR-COMPR 8-LAB  
 NO-4  
 8-27-34  
 8 PM TO 3:30 AM

MIRACLE Co. 1-AIR-COMPR 1-FOREMAN  
 3-SACKS CEMENT 2-DRILLERS  
 1-STEEL-MAN-4-HRS

KNAPP 2-75-CATS 1-FOREMAN  
 NO2- 1-CARRYALL 3-CAT-OPR  
 8-27-34 1-BULLDOZER 1-SHOVEL-OPR  
 1-ROOTER 1-OILER  
 1-SHOVEL 3-TRUCK-DRIVERS  
 3-TRUCKS 2-DRILLERS  
 1-AIR-COMPR 1-POWDER-MAN  
 TRUCK LOADS 3-LAB  
 116 = 390  
 1220 cu. yds  
 630 cu. yds

STA 9+00 - 23+00

KNAPP 2-75-CATS 1-FOREMAN  
 NO-1 1-CARRYALL 3-CAT-OPR  
 8-29-34 1-BULLDOZER 1-SHOVEL-OPR  
 4-11 A.M. 1-SHOVEL 1-OILER  
 2-TRUCKS 2-TRUCK DRIVERS  
 1-AIR-COMPR 2-DRILLERS  
 TRUCK LOADS 1-POWDER-MAN  
 148 = 370 cu. yds 1-WELDER  
 5-LAB  
 2-AIR-COMPR 8-LAB  
 670 cu. yds TOTAL

BODENHAMER 1-CRANE 1-FOREMAN  
 NO-2 2-TEAMS 1-CARPENTER  
 8-26-34 2-TRUCKS 1-CRANE-OPR  
 7:30 TO 3:30 1-MECHANIC  
 1-MIXER-MAN  
 2-TEAMSTERS  
 1-OFFICE-MAN  
 2-TRUCK-DRIVER  
 20-LAB  
 1-ELECTRICIAN

BODENHAMER 2-AIR-COMPR 8-LAB  
 NO-3  
 8-27-34  
 12:30 TO 7:30

BODENHAMER 2-AIR-COMPR 8-LAB  
 NO-4  
 8-28-34  
 9 TO 3:00 AM

MIRACLE Co. 1-AIR-COMPR 1-FOREMAN  
 NO-1 2-DRILLERS  
 8-28-34 3-SACKS CEMENT 1-STEEL-MAN-3 HRS.

KNAPP 2-75-CATS 1-FOREMAN  
 NO2- 2-CARRYALLS 3-CATOPR  
 8-29-34 1-BULLDOZER 1-SHOVEL-OPR  
 1-SHOVEL 1-OILER  
 2-TRUCKS 2-TRUCK-DRIVERS  
 1-AIR-COMPR 2-DRILLERS  
 TRUCK LOADS 1-POWDER-MAN  
 116 = 287 cu. yds 3-LAB  
 707 cu. yds LOADS = 702 = 420 cu. yds

1377 cu. yds TOTAL

STA 9+00-2300

KNAPP 2-75-CATS 1-FOREMAN  
 NO-1 1-CARRYALL 3-CAT-OPR  
 8-30-34 1-BULLDOZER 1-SHOVEL-OPR  
 H TO 11A.M. 1-ROOTER 1-OILER  
 1-SHOVEL 2-TRUCK-DRIVERS  
 2-TRUCKS 2-DRILLERS  
 1-AIR-COMPR. 1-POWDER-MAN  
 1-WELDER  
 6-LAB  
 TRUCK LOADS=71-177 CU.YDS  
 50-LOADS=4200

602 CU.YDS  
 TOTAL

BODENHAMER 2-AIR-COMPR 6-LAB.  
 NO-1  
 8-30-34  
 5 TO 12<sup>15</sup>

BODENHAMER 2-TEAMS. 1-FOREMAN 16-LAB-SLOP  
 NO. 2 1-CARPENTER  
 8-30-34 2-TRUCKS 1-MECHANIC  
 1-MIXER-MAN  
 1-ELECTRICIAN  
 2-TEAMSTERS  
 1-OFFICE-MAN  
 2-TRUCK DRIVERS  
 20-LAB.

BODENHAMER 2-AIR-COMPR. 7-LAB  
 NO-3  
 10<sup>20</sup> TO 7<sup>30</sup>  
 8-30-34

KNAPP 1-AIR-COMP  
 NO-3 2-DRILLERS  
 8-30-34 1-LAB  
 8 P.M. 3 A.M.

BODENHAMER 2-AIR-COMPR. 8-LAB  
 NO-4  
 8-30-34  
 8 P.M. - 3 A.M.

MIRACLE Co 1-AIR-COMPR 1-FOREMAN  
 NO-1 3-SACKS 2-DRILLERS  
 8-30-34 1-STEEL-MAN - 1-HR.  
 8 TO 4<sup>30</sup>

KNAPP 2-75-CATS 1-FOREMAN  
 NO-2 1-CARRYALL 3-CAT-OPR  
 8-30-34 1-BULLDOZER 1-SHOVEL-OPR  
 12-7 P.M. 1-SHOVEL 1-OILER  
 2-TRUCKS 2-TRUCK-DRIVERS  
 1-AIR-COMPR 2-DRILLERS  
 TRUCK LOADS 137x342 CU.YDS 1-POWDER-MAN  
 2-LAB

1194 CU.YDS  
 TOTAL

50-LOADS  
 592  
 TOTAL

STA 9+00-23400

AA

KNAPP 2-75-CATS 1-FOREMAN  
 NO-1 2-CARRYALL 3-CAT-OPR  
 8-31-34 1-BULLDOZER 1-SHOVEL-OPR  
 H TO 11A.M. 1-SHOVEL 1-OILER  
 2-TRUCKS 2-TRUCK-DRIVERS  
 1-AIR-COMPR 2-DRILLERS  
 TRUCK LOADS 1-POWDER-MAN  
 1-WELDER  
 8-LAB  
 136-340 CU.YDS  
 LOADS=50=300 CU.YDS

640 CU.YDS  
 TOTAL

BODENHAMER 2-AIR-COMPR 6-LAB.  
 NO-1  
 8-31-34  
 5 TO 12<sup>15</sup>

BODENHAMER 2-TEAMS 1-FOREMAN  
 NO-2 1-CARPENTER  
 8-31-34 2-TRUCKS 1-MECHANIC  
 7<sup>20</sup> TO 3<sup>30</sup> 1-CRANE 1-MIXER-MAN  
 2-TEAMSTERS  
 1-OFFICE-MAN  
 2-TRUCK-DRIVERS  
 1-CRANE-OPR  
 20-LAB  
 1-ELECTRICIAN  
 7-LAB

BODENHAMER 2-AIR-COMPR 7-LAB  
 NO-3  
 8-31-34  
 10<sup>15</sup> TO 7<sup>50</sup>

BODENHAMER 2-AIR-COMPR 8-LAB KNAPP 1-AIR-COMPR  
 8-31-34 1-LAB  
 11 A.M. 8 P.M. 3 A.M. 8-31-34 2-DRILLERS  
 8 P.M. - 3 A.M.

MIRACLE 1-AIR-COMPR. 1-FOREMAN  
 TOTAL 2-SACKS-CEMENT 2-DRILLERS  
 34 1-STEEL-MAN 1.5 HRS

KNAPP 2-75-CATS 1-FOREMAN 500 CU.YDS  
 NO-2 1-BULLDOZER 3-CAT-OPR 640  
 8-31-34 2-CARRYALL 1-SHOVEL-OPR 1100 CU.YDS  
 1-SHOVEL 1-OILER TOTAL  
 2-TRUCKS 2-TRUCK-DRIVERS  
 1-AIR-COMP 2-DRILLERS  
 12 TO 7 P.M. 1-POWDER-MAN 210 CU.YDS  
 84-LOADS=910 CU.YDS 1-LAB

30699 CU.YDS. EXCAVATION  
 AUGUST-1934

STA 9+00 & 23+00 2ND S.P. (15-135)  
8-30-34  
CAR-CEMENT  
1-3 P. 20495-84131

KNAPP 2-75-CATS, 1-FOREMAN  
NO-1 1-CARRYALL 3-CAT-OPR  
9-1-34 1-BULLDOZER 1-SHOVEL-OPR  
4:11 A.M. 1-SHOVEL 1-OILER  
2-TRUCKS 2-TRUCK-DRIVERS  
1-AIR-COMPR 2-DRILLERS  
1-ROOTER 1-POWDER-MAN,  
TRUCK 1-WELDER  
LOADS- (153-306 CU.YDS) 6-LAB (LOADS= 200 CUNDS)  
(306 CU.YDS TOTAL)

BODENHAMER 2-AIR-COMPR. 6-LAB  
NO-1  
9-1-34  
5-TO 12:15 AM  
BODENHAMER  
NO-2 1-CRANE  
9-1-34 2-TEAMS  
7-TO 3:30 1-CRANE  
1-FOREMAN  
1-CARPENTER  
1-MECHANIC  
1-MIXER-MAN  
1-ELECTRICIAN  
3-TEAMSTERS  
1-OFFICE-MAN  
18-LAB  
1-CRANE-OPR.

BODENHAMER 2-AIR-COMPR. 7-LAB  
NO-3  
12:15 TO 7:30  
9-1-34

BODENHAMER  
NO-4  
9-1-34  
8 P.M. TO 3 A.M. 2-AIR-COMPR 8-LAB

MIRACLE CO. 1-AIR-COMPR 1-FOREMAN  
NO-1 2-DRILLERS  
9-1-1934  
8:30 TO 4:30

KNAPP 2-75-CATS 1-FOREMAN  
NO-2 1-CARRYALL 3-CAT-OPR  
9-1-34 1-ROOTER 1-SHOVEL-OPR.  
1-BULLDOZER 1-OILER  
1-SHOVEL 2-TRUCK DRIVERS  
1-AIR-COMPR. 2-DRILLERS  
2-TRUCKS 1-POWDER-MAN  
2-75-CATS 1-LAB

KNAPP  
NO-3 1-AIR-COMPR 2-DRILLERS  
9-1-34 2-CARRYALLS  
8 TO 3 A.M. 1-LAB  
1-CAT-OPR

(850 CU.YDS TOTAL)

(200 CU.YDS)

STA- 9+00-23-00 NIGHT WATCH 45

KNAPP 2-75-CATS 1-FOREMAN  
NO-1 1-CARRYALL 3-CAT-OPR  
9-4-34 1-BULLDOZER 1-SHOVEL-OPR  
4:11 A.M. 1-ROOTER 1-OILER  
1-SHOVELS 2-TRUCK-DRIVERS  
2-TRUCKS 2-DRILLERS  
1-AIR-COMPR 1-POWDER-MAN  
1-WELDER  
7-LAB  
(87-LOADS 175 CU.YDS) (50-LOADS=300 CU.YDS)

BODENHAMER 2-AIR-COMPR 6-LAB (475 CU.YDS TOTAL)  
NO-1  
9-4-34  
5-12:15

BODENHAMER 2-TEAMS 1-FOREMAN  
NO-2 2-TRUCKS 1-CARPENTER  
9-4-34 1-MECHANIC  
7:30-2:30 1-CRANE 1-MIXER-MAN  
2-TEAMSTERS  
1-OFFICE-MAN  
6-LAB  
1-CRANE-OPR-1  
2-TRUCK-DRIVERS  
7-LAB

BODENHAMER 2-AIR-COMPR 7-LAB  
NO-3 1-CRANE-OPR-4 HRS.  
9-4-34  
12:15-7:30 1-CRANE-4-HRS

BODENHAMER 2-AIR-COMP. 8-LAB  
NO-4  
9-4-34  
2 P.M. - 3 A.M.

MIRACLE CO. 1-AIR-COMP. 1-FOREMAN  
NO-1 2-DRILLERS  
9-4-34 (3 1/2 loads CEMENT) 1-STEEL-MAN-4.4 HRS.  
8:30-4:30

KNAPP 2-75-CATS 1-FOREMAN  
NO-2 3-CAT-OPR  
9-4-34 1-SHOVEL-OPR  
11-7 P.M. 1-SHOVEL 1-OILER  
2-TRUCKS 2-TRUCK-DRIVERS  
1-AIR-COMPR 2-DRILLERS  
1-POWDER-MAN  
(99-LOADS=200 CUNDS) 1-LAB (300 CU.YDS)

KNAPP 2-75-CATS 2-CAT-OPR  
NO-3 2-DRILLERS  
9-4-34 1-LAB (200 CU.YDS)  
8-TO-3 A.M.

(1200 CU.YDS TOTAL)

STA 10478-2300

STEEL-REC'D

5/8

9400-23400

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KNAPP 2-75-CATS  
NO-1  
9-5-34  
4-11 A.M.  
1-CARRYALL  
1-ROOTER  
1-SHOVEL  
2-TRUCKS  
1-AIR-COMPR

180-CU.YDS

125-CU.YDS

1-FOREMAN  
2-CAT-OPR  
1-SHOVEL-OPR  
1-OILER  
2-TRUCK-DRIVERS  
2-DRILLERS  
1-POWDER-MAN  
1-WELDER  
7-LAB

BODENHAMER 2-AIR-COMPR  
NO-1  
9-5-34  
0-12:15 P.M.

6-LAB

NO-2  
9-5-34  
7:30 TO 3:30 P.M.  
2-TEAMS  
1-CRANE  
1-TRUCK

1-FOREMAN  
1-CARPENTER  
1-MECHANIC  
1-MIXER-MAN  
2-TEAMSTERS  
1-OFFICE-MAN  
1-CRANE-OPR  
19-LAB  
1-TRUCK-DRIVER

NO-3  
9-5-34  
12:15 TO 7:30 P.M.  
2-AIR-COMPR.

8-LAB

NO-4  
9-5-34  
8 AM-3 A.M.  
2-AIR-COMPR.

8-LAB

MIRACLE Co. 1-AIR-COMPR.  
NO-1  
9-5-34  
7:30 TO 4:30  
10-SACKS-CEMENT

1-FOREMAN  
2-DRILLERS  
1-STEEL-MAN

KNAPP 2-75-CATS  
NO-2  
9-5-34  
12 TO 7 P.M.  
1-CARRYALL  
1-ROOTER  
1-SHOVEL  
2-TRUCKS  
1-AIR-COMPR

180-CU.YDS

200

685 CU.YDS  
TOTAL

1-FOREMAN  
2-CAT-OPR  
1-SHOVEL-OPR  
1-OILER  
2-TRUCK-DRIVERS  
2-DRILLERS  
1-POWDER-MAN  
1-LAB

KNAPP 2-75-CATS  
NO-2  
9-5-34  
8-3 A.M.  
1-AIR-COMPR  
1-CARRYALLS

2-CAT-OPR.  
2-DRILLERS  
1-LAB

KNAPP 2-75-CATS  
NO-3  
9-6-34  
10 MT 3 A.M.  
1-CARRYALL  
1-ROOTER

1-FOREMAN  
2-CAT-OPR.  
1-SHOVEL-OPR  
1-OILER  
2-TRUCK-DRIVERS  
2-DRILLERS  
1-POWDER-MAN  
1-WELDER  
5-LAB

200-CU.YDS

225-CU.YDS

425-CU.YDS  
TOTAL

BODENHAMER 2-AIR-COMPR.  
NO-1  
9-6-34  
5:00 P.M.

7-LAB

NO-2  
9-6-34  
7:30 TO 3:30 P.M.  
2-TEAMS  
1-CRANE  
1-TRUCK

1-FOREMAN  
1-CARPENTER  
1-MECHANIC  
1-MIXER-MAN  
2-TEAMSTERS  
1-OFFICE-MAN  
2-CRANE-OPR.  
1-TRUCK DRIVER?  
19-LAB

NO-3  
9-6-34  
12:15 TO 7:30 P.M.  
2-AIR-COMPR.

8-LAB

NO-4  
9-6-34  
8 PM TO 3 A.M.  
2-AIR-COMPR.

9-LAB

MIRACLE Co. 1-AIR-COMPR.  
NO-1  
9-6-34  
7:30 TO 4:30 P.M.  
3-SACK-CEMENT

1-FOREMAN  
2-DRILLERS  
1-STEEL-MAN - 3.5 H.R.S.

KNAPP 2-75-CATS  
NO-2  
9-6-34  
12 TO 7 P.M.  
1-CARRYALL  
1-ROOTER  
1-SHOVEL  
2-TRUCKS  
1-AIR-COMPR

1-FOREMAN  
2-CAT-OPR  
1-SHOVEL-OPR  
1-OILER  
2-TRUCK-DRIVERS  
2-DRILLERS  
1-POWDER-MAN  
1-LAB

175-CU.YDS

135-CU.YDS

325-CU.YDS  
TOTAL

KNAPP 2-75-CATS  
NO-3  
9-6-34  
10 MT 3 A.M.  
1-CARRYALL  
1-ROOTER

2-CAT-OPR  
3-DRILLERS  
1-LAB

800 CU.YDS

TOTAL



KNAPP 1-75-CAT 1-FOREMAN 210-CUYOS  
 NO-1 1-70-CAT 2-CAT-OPR  
 9-7-34 1-CARRYALL 2-DRILLERS  
 4 TO 11 A.M. 1-ROOTER 1-WELDER  
 1-AIR-COMPR 5-LAB.

BOENHAMER 2-AIR-COMPR 2-LAB  
 NO-1  
 9-7-34  
 9 TO 12 10

NO-2 2-TEAMS 1-FOREMAN  
 9-7-34 1-CRANE 1-CARPENTER  
 7:30-3:30 P.M. 1-MECHANIC  
 1-MIXER-MAN  
 2-TEAMSTERS  
 1-OFFICE-MAN  
 1-CRANE-OPR  
 1-TRUCK-DRIVERS  
 18-LAB

NO-3 2-AIR-COMPR 8-LAB  
 9-7-34  
 12<sup>15</sup> TO 7<sup>30</sup>

NO-4 2-AIR-COMPR 8-LAB  
 9-7-34  
 8 P.M. TO 3 A.M.

MIRACLE CO 1-AIR-COMPR 1-FOREMAN  
 NO-1 2-DRILLERS  
 9-7-34 (2-SACKS-CEMENT)  
 7:30 TO 4:30

KNAPP 2-CATS 1-FOREMAN 175  
 NO-2 1-CARRYALL 2-CAT-OPR  
 9-7-34 2-DRILLERS 385-CUYOS  
 12-7 P.M. 1-ROOTER 1-POWDER-MAN  
 1-AIR-COMPR 0-LAB  
 TOTAL

KNAPP 2-CATS 2-CAT-OPR  
 NO-3 1-CARRYALL 2-DRILLERS  
 8 TO 3 A.M. 1-ROOTER 1-LAB  
 1-AIR-COMPR

KNAPP 9-CATS 1-FOREMAN  
 NO-1 1-CARRYALL 1-CAT-OPR  
 9-8-34 1-ROOTER 5-DRILLERS  
 4 TO 9 A.M. 1-AIR-COMPR 1-POWDER-MAN  
 5-17R. 1-WELDER  
 1-LAB.

BOENHAMER 2-AIR-COMPR 7-LAB  
 NO-1  
 9-8-34  
 5-12 15 P.M.

BOENHAMER 2-TEAMS 1-FOREMAN  
 NO-1 1-CRANE 1-CARPENTER  
 9-8-34 1-MECHANIC  
 7:30 TO 7:30 P.M. 1-LOGO-MAN  
 1-MIXER-MAN  
 2-TEAMSTERS  
 1-OFFICE-MAN  
 1-CRANE-OPR  
 11-LAB

NO-3 2-AIR-COMPR 3-LAB  
 9-8-34  
 12<sup>15</sup> TO 7<sup>30</sup>

NO-4 2-AIR-COMPR -LAB  
 9-8-34  
 8 TO 3 A.M.

MIRACLE 1-AIR-COMPR 1-FOREMAN 23-SACKS-CEMENT  
 NO-1 2-DRILLERS  
 9-8-34 (4 SACKS-CEMENT) 1-STEEL-MAN  
 7:30 TO 4:30 TO-DATE SEPT-10-34

KNAPP 1-CATS 1-FOREMAN  
 NO-2 1-CARRYALL 1-CAT-OPR  
 9-8-34 1-ROOTER 2-DRILLERS  
 7 P.M. 1-AIR-COMPR 1-LAB

KNAPP 2-CATS 2-CAT-OPR 50-CUYOS  
 NO-3 1-CARRYALL 2-DRILLERS  
 8 P.M. TO 3 A.M. 1-ROOTER 1-LAB  
 1-AIR-COMPR

KNAPP 1-SHOVEL 1-FOREMAN  
NO-1 2-TRUCKS 1-SHOVEL-OPR  
9-10-34 2-TRUCK-DRIVERS  
4-11-AM 1-LAB  
1-OILER

KNAPP 1-SHOVEL 1-FOREMAN  
NO-2 2-TRUCKS 1-SHOVEL-OPR  
12-7 P.M. 1-OILER  
2-TRUCK-DRIVERS  
1-LAB

171-LOADS  
342-CU.YDS.

1078-2300

48

KNAPP 1-CAT 1-FOREMAN  
NO-1 1-BULLDOZER 1-CAT-OPR  
9-11-34 1-SHOVEL 1-SHOVEL-OPR  
4 TO 11 AM. 2-TRUCKS 1-OILER  
1-AIR-COMPR 2-TRUCK-DRIVERS  
1-WELDER

BODENHAMER 2-AIR-COMP.

NO-1  
9-11-1934  
5-12-15

NO-2 2-TEAMS  
7<sup>30</sup> 5<sup>30</sup> 1-CRANE  
9-11-34

NO-3 2-AIR-COMP 7-LAB  
9-11-34  
12<sup>15</sup> 7

NO-4 2-AIR-CAMPR 10-LAB  
9-11-34  
8-10-3<sup>30</sup>

MIRACLE Co 1-AIR-COMPR. 1-FOREMAN  
9-11-34 (4-SACKS-CEMENT) 2-DRILLERS  
7<sup>30</sup> TO 9<sup>30</sup> 1-STEEL-MAN-5 HRS.

KNAPP 1-BULLDOZER 1-FOREMAN  
NO-2 1-SHOVEL 1-CAT-OPR  
9-11-34 2-TRUCKS. 1-SHOVEL-OPR  
12-7 P.M. 1-CAT- 2-TRUCK-DRIVERS  
1-CARRY ALL

MIRACLE 1-AIR-COMPR - 2-DRILLERS  
NO-2  
9-11-34  
4<sup>30</sup> TO 10<sup>30</sup>

2-LAB  
1-PAVING-MAN  
1-DRILLER  
8-LAB.

200 cu. yds

1-FOREMAN  
20-LAB,  
2-TEAMSTERS  
2-CRANE-OPR

7-LAB

10-LAB

KNAPP 1-AIR-COMPR. 1-POWDER-MAN  
1-BULLDOZER 1-DRILLER  
1-CAT-OPR.

BODENHAMER 2-AIR-COMPR 7-LAB  
NO-1  
9-12-34  
5-12<sup>15</sup>

NO-2 2-TEAMS 1-FOREMAN (REED)  
9-12-34 2-TEAMSTERS (18 MEN)  
7<sup>30</sup> TO 3<sup>30</sup> 2-OFFICE-MAN  
1-CRANE-OPR  
23-LAB.

NO-3- 2-AIR-COMPR 7-LAB  
9-12-34  
12<sup>15</sup> 7

NO-4- 2-AIR-COMPR 8-LAB  
9-12-34  
8 TO 3 AM,

MIRACLE CO 1-AIR-COMPR  
NO-1 2-DRILLERS-6 HRS  
9-12-34 1-BLACKSMITH-3 HRS.  
7<sup>30</sup> TO 4<sup>50</sup> 1-STEEL-MAN

NO-2 1-AIR-COMPR 3-DRILLERS-  
4<sup>30</sup> - 12<sup>30</sup> (9-SACKS CEMENT) (8 HRS.) ✓

KNAPP 1-BULLDOZER 1-CAT-OPR.  
NO-1

BODENHAMER 2-AIR-COMPR 7-LAB REEDHO  
NO-1  
9-13-34  
5-12<sup>15</sup>

BODENHAMER 2-TEAMS 1-FOREMAN  
NO-2 1-CRANE 1-CRANE-OPR  
9-13-34 1-TRUCK-DRIVER  
7<sup>30</sup> TO 3<sup>30</sup> 1-TRUCK 2-TEAMSTERS  
20-LAB  
2-OFFICE-MEN

NO-3 2-AIR-COMPR 7-LAB  
12<sup>15</sup> 7

NO-4 2-AIR-COMPR 10-LAB  
6 TO 3

MIRACLE CO 1-AIR-COMPR 2-DRILLERS  
9-13-34 1-BLACKSMITH  
NO-1 (4-SACKS CEMENT) 1-STEEL-MAN-2 HRS.  
7<sup>30</sup> TO 4<sup>30</sup>

MIRACLE 1-AIR-COMPR 2-DRILLERS  
9-13-34 1-LAB  
NO-2  
4<sup>30</sup> TO 1 AM.

KNAPP 1-SHOVEL-2 HRS - 1 SHOVEL-OPR  
 NO-2 2-TRUCKS 1-OILER  
 2-TRUCK-DRIVERS  
 1-LAB

BODENHAMER 1-AIR-COMPR 7-LAB (75-cu yds)  
 9-14-34  
 NO-1 REED  
 370 12<sup>15</sup> (22-MEN)

BODENHAMER 2-TEAMS 1-FOREMAN  
 9-14-34 1-CRANE 2-TEAMSTERS  
 NO-2 1-AIR-COMPR, 1-CRANE-OPR  
 720 TO 3<sup>30</sup> 2-OFFICE-MEN  
 1-LAB  
 1-DRILLER  
 1-POWDER-MAN

BODENHAMER 1-AIR-COMPR 7-LAB  
 9-14-34  
 NO-3  
 12<sup>15</sup> TO 7

BODENHAMER 1-AIR-COMPR 10-LAB (52)  
 9-14-34 1-FOREMAN  
 NO-4  
 8 TO 3 AM

MIRACLE 1-AIR-COMPR 2-DRILLERS  
 9-14-34 1-BLACKSMITH  
 NO-1 (9-SACKS-CEMENT) 1-FOREMAN  
 730 TO 4<sup>30</sup> 1-STEEL-MAN

MIRACLE 1-AIR-COMPR, 2-DRILLERS  
 9-14-34  
 NO-2  
 4<sup>30</sup> TO 1 AM

KNAPP 1-SHOVEL #2 1-FOREMAN  
 NO-1 1-SHOVEL-OPR #2  
 9-15-34 2-TRUCKS #2 1-OILER #2  
 4-11-AM 1-PULLDOZER 2-TRUCK-DRIVERS #2

BODENHAMER 1-AIR-COMPR 2-LAB 300 cu yds  
 9-15-34  
 NO-1  
 9-TO 12<sup>15</sup>

BODENHAMER 2-TEAMS 1-FOREMAN  
 9-15-34 1-CRANE 2-TEAMSTERS  
 NO-2 1-AIR-COMPR, 1-CRANE-OPR  
 730 TO 3<sup>30</sup> 1-OFFICE-MEN  
 1-LAB  
 1-DRILLER  
 1-POWDER-MAN

BODENHAMER 1-AIR-COMPR 7-LAB  
 9-15-34  
 NO-3  
 12<sup>15</sup> TO 7 PM

BODENHAMER 1-AIR-COMPR 1-FOREMAN  
 9-15-34 10-LAB  
 NO-4  
 8 TO 3 AM

MIRACLE 1-AIR-COMPR 3-DRILLERS  
 9-15-34 1-BLACKSMITH  
 730 TO 4<sup>30</sup> 1-FOREMAN

MIRACLE 1-AIR-COMPR 2-DRILLER  
 9-15-34  
 NO-2  
 4 TO 1 AM

TOTAL  
 LABS  
 49

REED  
 10

10478 & 2300  
6 HRS & 40-MINUTE-SHIFTS.

K KNAPP 1-SHOVEL 1-FOREMAN  
NO-1 1-SHOVEL-OPR  
9-17-34 2-TRUCKS 1-OILER  
470-HAM 1-BULLDOZER 2-TRUCK-DRIVERS  
1-CAT-OPR  
1-POWDER-MAN

B  
9

N BODENHAMER 1-AIR-COMPR  
NO-1 4-LAB  
9-17-34 200 (250-CU.YDS)  
5-TO 12 P.M.

B  
9

N BODENHAMER 2-TEAMS  
NO-2 1-CRANE  
9-17-34  
730 TO 3:00

B  
9

N BODENHAMER 1-AIR-COMPR  
NO-3 7-LAB  
12 TO 7 P.M.

B BODENHAMER 1-AIR-COMPR  
NO-4 10-LAB  
9-17-34 1-FOREMAN  
8-TO 1 P.M.

MIRACLE 1-AIR-COMPR. 2-DRILLERS  
1-BLACKSMITH

NO-1 (3-SACKS-CEMENT)

MIRACLE 1-AIR-COMPR 2-DRILLERS

NO-2 1-SHOVEL 1-FOREMAN  
2-TRUCKS 1-SHOVEL-OPR  
1-OILER  
9-TRUCK-DRIVERS  
1-LAB

KNAPP  
NO-2  
9-17-34  
7-HRS

300 CU.YDS  
TOTAL

10478-2300

51

KNAPP 1-SHOVEL 1-FOREMAN  
9-18-34 2-TRUCKS 1-SHOVEL-OPR  
NO-1 1-BULLDOZER 1-OILER  
2-TRUCK-DRIVERS  
1-CAT-OPR  
1-LAB

BODENHAMER 1-AIR-COMPR 4-LAB  
NO-1  
9-18-34

BODENHAMER 1-FOREMAN  
NO-2  
9-18-34 1-OFFICE-MAN  
15-LAB  
1-CRANE-OPR.

BODENHAMER 1-AIR-COMPR 5-LAB  
NO-3  
9-18-34

BODENHAMER 1-AIR-COMPR 1-FOREMAN  
NO-4 6-LAB  
9-18-34

MIRACLE 1-AIR-COMPR 3-DRILLERS  
NO-1 1-BLACKSMITH  
9-18-34 1-LAB-4 HRS.

MIRACLE 1-AIR-COMPR 2-DRILLERS  
NO-2  
9-18-34 (10-SACKS-CEMENT)

KNAPP 1-SHOVEL 1-FOREMAN  
NO-2 2-TRUCKS 1-SHOVEL-OPR  
1-OILER 107  
2-TRUCK-DRIVERS 260-CU.YD  
1-LAB

460 CU.YDS  
TOTAL

54-LOADS  
200 CU.YDS

(REED)  
20

LABOR  
TOTAL  
58

27  
(REED)

32

LOADS  
107

260-CU.YD

10478-2300

K KNAPP 1-SHOVEL  
NO-1 2-TRUCKS  
9-19-34

1-FOREMAN  
1-SHOVEL-OPR  
1- OILER  
2-TRUCK-DRIVERS  
1-LAB

54-LBS

125-CUB

BODENHAMER  
NO-1  
9-19-34

1-AIR-COMP

4-LAB

BODENHAMER  
NO-2  
9-19-34

1-FOREMAN  
1-OFFICE-MAN  
1-CRANE-OPR  
11-LAB  
1-WELDER

REED  
(26)

TOTAL

66-

BODENHAMER  
NO-3  
9-19-34

1-AIR-COMP

5-LAB

BODENHAMER  
NO-4  
9-19-34

1-AIR-COMP

1-FOREMAN  
4-LAB  
1-WELDER

MIRACLE  
NO-1  
9-19-34

1-AIR-COMP

1-FOREMAN  
3-DRILLERS  
1-BLACKSMITH  
1-STEEL-MAN  
1-LAB

(8-SACKS-CEMENT)

MIRACLE  
NO-2  
9-19-34

1-AIR-COMP

2-DRILLERS

KNAPP  
NO-2  
9-19-34

1-SHOVEL

3-TRUCKS

1-FOREMAN  
1-SHOVEL-OPR  
1-OILER  
2-TRUCK-DRIVERS  
1-LAB

1-LAB-INJURED  
2:30 P.M.

13435.7 TO 13411.7

CEMENT = 6 SACK-MIX

5-64-LBS

SAND = 1300-LBS

ROCK 2320-LBS

BATCH METER NO BATCH

65664

65553

111

14479.7 TO 15403.7

CONCRETE

METER-READING-65861

1-CRANE

1-MIX-PLANT

SAND 1300

ROCK 2320

6-SACK-

METER  
READING

65965

65861

104

664 SACKS

NO BATCHES

104

WATER

41

GALS

STA-15+03.7 TO 15+27.2

METER

66209

66119

85

(38 GAL)

WATER

BATCHES

85

1-CRANE

1-MIX-PLANT

1-DINKY

2-TRUCKS

1-CRANE-OPR

1- OILER

1 MIXER-MAN

1-BATCHER-M

1-CEMENT-MAN

1-DINKY-OPR

1- " HELPER

1-FOREMAN

1-FINISHER

5-LAB-SPREADING

2-STEEL-MEN

1-LAB

5:30 P.M.

METER-READING-65861

1-CRANE-OPR

1-MIX-MAN

1-BATCH-MAN

1-CEMENT-MAN

1-DINKY-OPR

1- " HELPER

1-FOREMAN

1-FINISHER

5-LAB-SPREADING

3-STEEL-MEN

1-FOREMAN

3-CARPENTER

1-HELPER

1-CRANE-OPR

1-MIXER-MAN

1-BATCH-MAN

1-CEMENT-MAN

1-DINKY-OPR

1- " HELPER

4-LAB-SPREADING

1-STEEL FOREMAN

3- " MEN

1-FINISHER

1-MECHANIC

2-TRUCK-DRIVERS

1-CARPENTER

1- " HELPER

5:30 P.M.

52

SHIFT

NO-2

CONCRETE

FLOOR

SPILLWAY

EXT.

9-19-1934

SHIFT

NO-2

9-20-34

SPILLWAY

FLOOR

CONCRETE

7-20-1934

7-21-34

SHIFT

NO-2

CONCRETE

FLOOR

EXCAVATION

KI  
1

BODENHAMER 1-AIR-COMPR 4-LAB,  
NO-1  
9-20-34

Bo  
9-  
N  
37

BoD  
NO-2  
9-20-34  
9-LAB  
1-CRANE-OPR-  
1-FOREMAN  
1-WELDER

Bo  
9-  
N  
21

BoD- 1-AIR-COMPR 7-LAB  
NO-3  
9-20-34

Bo  
9-  
N  
11

BoD- 1-AIR-COMPR 1-FOREMAN  
NO-4 5-LAB  
9-20-34

Bo  
9-  
N  
8

MIRACLE 1-AIR-COMPR 2-DRILLERS  
9-20-34 (1-SACK-CEMENT) 3-LAB  
NO-1 1-BLACK-SMITH

M  
9-  
N  
7

MIRACLE 1-AIR-COMP. 2-DRILLERS  
NO-2

M  
9-  
N  
4

LIBRARY

KNAPP 1-SHOVEL  
NO-1 2-TRUCKS

9-21-34

BODENHAMER 1-AIR  
NO-1  
9-21-34

BoD  
NO-2  
9-21-34

BoD-3 1-AIR-COMPR. 4-LAB  
9-21-34  
NO-3

BoD 1-AIR-COMPR 1-FOREMAN  
NO-4 5-LAB.  
9-21-34 1-MECHANIC.

MIRACLE 1-AIR-COMPR 2-DRILLERS  
NO-1 1-BLACKSMITH  
9-21-34 (10-SACKS-CEMENT) 2-LAB.

MIRACLE 1-AIR-COMPR 2-DRILLERS  
NO-2  
9-21-34

KNAPP 1-SHOVEL  
NO-2 2-TRUCKS  
9-21-34

1-FOREMAN  
1-SHOVEL-OPR  
1-OILER  
2-TRUCK-DRIVERS

LOADS  
NO. 64  
180-CU.YDS

(REED)  
27 MEN  
(TOTAL)  
66

8-LAB  
1-FOREMAN  
1-MECHANIC

4-LAB

1-FOREMAN  
5-LAB.  
1-MECHANIC.

2-DRILLERS  
1-BLACKSMITH  
2-LAB.

2-DRILLERS

1-FOREMAN  
1-SHOVEL-OPR  
1-OILER  
2-TRUCK-DRIV  
1-LAB

LOADS  
72  
180-CU.YD

360  
TOTAL  
CU.YDS

KNAPP 1-SHOVEL  
NO-1 2-TRUCKS  
9-22-34

1-FOREMAN  
1-SHOVEL-OPR  
1-OILER  
1-LAB  
2-TRUCK-DRIV

LOADS  
34  
80-CU.YD

SPILLYWAY EXT-CONCRETE-FLOOR

STA-15+27.7 TO 15+60

9-22-34

BODENHAMER 1-AIR-COMPR  
NO-1  
9-22-34

3-LAB.

NO-2  
9-22-34

1-FOREMAN  
7-LAB  
1-WELDER

NO-3 1-AIR-COMPR  
9-22-34

4-LAB

NO-4 1-AIR-COMPR  
9-22-34

1-FOREMAN  
5-LAB  
1-MECHANIC

MIRACLE 1-AIR-COMPR  
NO-1  
9-22-34

2-DRILLERS  
1-FOREMAN

MIRACLE  
NO-2  
9-22-34

KNAPP 1-SHOVEL  
NO-2 2-TRUCKS  
9-22-34

1-FOREMAN  
1-SHOVEL-OPR  
1-OILER  
1-LAB  
2-TRUCK-DRIV

330-CU.YDS  
TOTAL

90-LOADS  
250-CU.YD

METER-EQUIPMENT.

6634) 1-CRANE  
66243 1-MIX-PLANT  
104 1-DINKEY

BATCHES

104 WATER

CEMENT 38 GALS

624

3:30 P.M.

LABOR

1-CRANE-OPR

1-MIXER-MAN

1-BATCH-MAN

1-CEMENT-MAN

1-DINKEY-OPR

1 " HELPER

1-FOREMAN

1-FINISHER

4-LAB-SPREADING

1-CARPENTER

2 " HELPERS

1-PUMP-MAN. 9-22-34

SPILLWAY-EXTENSION-CONCRETE  
FLOOR.

STATION-12+87.7-12+69

1 STEEL-FOREMAN 9-24-34

4-STEEL-MEN

METER 1-CRANE

LABOR

66496 1-MIXER-PLANT

1-FOREMAN

66461 1-DINKEY

1-CRANE-OPR

35

1-MIXER-MAN

BATCHES WATER

1-BATCH-MAN

35

1-CEMENT-MAN

910 36 GALS

1-DINKEY-OPR

1 " HELPER

1-FINISHER

4-LAB-SPREADING

1-PUMP-MAN



KNAPP 1-SHOVEL#2 1-FOREMAN  
 NO-1 2-TRUCKS#2 2-TRUCK-DRIVERS  
 9-24-34 1-SHOVEL-OPR 105-  
 BOILER - 2000  
 1-LAB. 225-00  
 1-FOREMAN 30000  
 BIDENHAMER 1-AIR-COMPR. 14-LAB TOTAL  
 NO-1  
 9-24-34  
 BOD 1-FOREMAN  
 NO-2 3-LAB,  
 9-24-34 1-CRANE-OPR  
 BOD 1-AIR-COMPR 1-FOREMAN  
 NO-3 10-LAB  
 9-24-34 12-TOT  
 BOD 1-FOREMAN  
 NO-4 10-LAB  
 9-24-34  
 MIRACLE 1-AIR-COMPR 9-DRILLERS  
 NO-1 1-BLACKSMITH  
 9-24-34 (3 SACKS-CEMENT) 2-LAB.  
 1-STEEL-FOREMAN  
 4-STEEL-MEN  
 MIRACLE 1-AIR-COMPR - 2-DRILLERS  
 NO-2  
 9-24-34  
 MIRACLE 1-AIR-COMPR - 2-DRILLERS  
 NO-3

BOD 1-AIR-COMP - 1-FOREMAN  
 NO-1 8-LAB  
 9-25-34  
 NO-2 1-AIR-COMPR. 1-FOREMAN  
 7-LAB  
 NO-3 1-FOREMAN  
 10-LAB.  
 1-SERVICEMAN  
 MIRACLE 1-AIR-COMPR. 1-STEEL-FOREMAN  
 9-25-34 1-BLACKSMITH  
 NO-1 4-STEEL-MEN  
 (4-SACKS-CEMENT) 2-DRILLERS  
 2-LAB - 4-HRS-EACH  
 MIRACLE 1-AIR-COMPR - 2-DRILLERS  
 NO-2  
 NO-3 1-AIR-COMPR 9-DRILLERS

CONCRETE-FLOOR WALL-NORTH  
SPILLWAY EXT (STA-15+50)

9-26-34 4' WALL STA 15+50 NORTH-END  
 METER 2-CRANES 1-FOREMAN  
 66769 1-MIX-PLANT 2-CRANE-OPR  
 66702 1-DINKEY 1-MIXER-MAN  
 67 (412) 1-BATCH-MAN  
 BATCH SACKS 1-CEMENT-MAN  
 38-GALS 1-DINKEY-OPR  
 STA-12+59 TO 12+69 1- " -HELPER  
 3-CARPENTERS & HELPER  
 6-LAB-SPREADING ✓  
 1-MECHANIC

BODENHAMER  
 NO-1 1-FOREMAN  
 9-26-34 2-TRUCK DRIVERS  
 NO-2 4-LAB

9-26-34  
 9-26-34

MIRACLE 1-AIR-COMPR, 1-STEEL-FOREMAN  
 NO-1 2-DRILLERS-3H  
 9-26-34 (6-SACKS-CEMENT) 1-BLACKSMITH  
 4-STEEL-MEN 4H  
 3-LAB-4H

NO-2 1-AIR-COMP 2-DRILLERS-36HRS

NO-3 1-AIR-COMPR 2-DRILLERS ✓

BODENHAMER SOUTH-SLOPE

NO-1 1-AIR-COMPR 1-FOREMAN  
 9-27-34 12-LAB  
 1-CARP  
 7-HELPER  
 1-CRANE-OPR  
 1-WELDER

MIRACLE 1-AIR-COMPR 1-STEEL-FOREMAN  
 NO-1 2-DRILLERS ✓  
 NO-2 1-AIR-COMP-2DRIL 1-BLACKSMITH  
 NO-3 1-AIR-COMP-2DRIL 4-STEEL-MEN- 4-HRS  
 (4 SACKS CEMENT) 3- " LAB 4-HRS

STA-11+80 TO 11+90-S.S. SHIFT  
 NO-2  
 9-27-34  
 METER CONCRETE-FLOOR-24" SLAB

66847 1-CRANE 1-FOREMAN  
 66812 1-MIX-PLANT 1-CRANE-OPR  
 35 1-DINKEY 1-BATCH-MAN  
 210 1-MIX-MAN  
 1-CEMENT-MAN  
 1-DINKEY-OPR  
 1- " HELPER  
 1-FINISHER ✓  
 3-LAB-SPREADING ✓

BOD- 1-CARPENTER

NO-2 3- " HELPERS

9-27-34 1-SERVICE-MAN (ON TRUCKS) ✓

GRADING

BODENHAMER

1-FOREMAN

NO-1

8 LAB

9-28-34

1-WELDER

1-MECHANIC

NO-2

1-CARPENTER

1-SERVICE-MAN (TRUCK)

4 " HELPERS

MIRACLE 1-AIR-COMPR.

1-FOREMAN

NO-1

9-28-34

(3-SACKS CEMENT)

2-DRILLERS

1-BLACKSMITH

3-LAB - 4 HRS

4-STEEL-MEN - 4 HRS

9-28-34

MIRACLE 1-AIR-COMP.

2-DRILLERS

NO-2

MIRACLE 1-AIR-COMP

2-DRILLERS

6 P.M.

CONCRETE-FLOOR-

9-28-34 SHIFT-NO-2

CONCRETE

METER (12+40.7 TO 12+16.7)

67065

66920

1-CRANE

1-FOREMAN

145

1-MIX-PLANT

1-CRANE-OPR

1-DINKEY

1-BATCH-MAN

BATCHES

1-MIXER-MAN

1-bat

1-CEMENT-MAN

(144)

1-DINKEY-OPR

1- " HELPER

(38)

1-FINISHER

GALS.

6-LAB-SPREADING

12 30

30 TO

7 P.M.

(864 SACKS)

NO CEMENT- IN-LOST-BATCH

MIRACLE-00 COMPRESSOR-DOWN

NO-2

1-AIR-COMPR. 2-DRILLERS

NO-3

1- " " 2-DRILLERS

9-29-34 CONCRETE-FLOOR

11+90-TO 12+04. - NORTH- (11+60- 11+80 SOUTH)

STATION- 1-CARPENTER

4- " HELPERS

METER 1-CRANE

4-LAB

17358

1-MIX-PLANT

1-STEEL-FOREMAN-3

17120

1-DINKEY

4-STEEL-MEN-BH

(268)

3-LAB-9-H (ON STEEL)

BATCH

1-CRANE-OPR

1-FOREMAN

1-BATCH-MAN

1-MIXER-MAN

1-CEMENT-MAN

1-DINKEY-OPR

1- " -HELPER

1-FINISHER

3-LAB-SPREADING

(38)

WATER

9 P.M.

BATCHES? 234

MIRACLE 1-AIR-COMPR 2-DRILLERS

NO-1

1-FOREMAN  
1-BLACKSMITH

NO-2

2-AIR-COMPR 2-DRILLERS ✓

10-1-34

CONCRETE-SPILLWAY-FLOOR  
10-1-1934

10-1-34 STATION=11+30 TO 11+40 - 11+50 TO 11+60

METER EQUIPMENT

LABOR 10 AM

67641 1-MIX-PLANT

1-WELDER

67527 1-CRANE

1-MECHANIC  
2-CARPENTERS 2-<sup>30</sup> PM

114 1-DINKEY

4-HELPERS TO  
2-LAB 1 AM.

BATCHES

38 GAL

684  
SACKS1-FOREMAN  
1-CRANE-OPR  
1-BATCH-MAN  
1-MIX-MAN  
1-CEMENT-MAN  
1-DINKEY-OPR  
1- " HELPER  
3 LAB-SPREADING  
1-FINISHER ✓

10-2-34

400-CU. YDS.

1-CRANE

1-CRANE-OPR

1-TRUCK

1-TRUCK-DRIVER

300

1-CARP-FOREMAN

NO-1

7- " HELP

10-2-34

(SUB)

CHAMBERS GROUTING-ANCHORS 1-FOREMAN

NO-1

2- LAB

10-2-34

(5-SACKS-CEMENT)

MIRACLE 2-AIR-COMPR

1-FOREMAN

NO-1

3-DRILLERS

10-2-34

2-DRILLERS

NO-2

2-WELDERS-ON-PIPE-LINE

10-2-1934

10-2-34 CONCRETE-SPILLWAY-FLOOR

STATION-11+20 TO 11+30 - 140'

METER 1-CRANE

1-CARPENTER

67833 1-MIX-PLANT

4- " HELPRS

67741 1-DINKEY

1-WELDER  
1-MECHANIC

92

1-FOREMAN 8 A.M.

BATCHES

1-CRANE-OPR TO

1-BATCH-MAN 3-P.M.

1-MIXER-MAN TO

1-CEMENT-MAN 11 P.M.

1-DINKEY-OPR HELPER

4-LAB

1-FINISHER

552

SACKS

CEMENT

30 L. 4" DRAIN-

10-3-34  
MIRACLE 2-AIR-COMPR. 1-FOREMAN  
No-1 3-DRILLERS

MIRACLE 2-AIR-COMPR 1-FOREMAN  
No-2 3-DRILLERS  
10-3-34

CHAMBERS - GROUTING-ANCHORS  
(18 sacks CEMENT) 1-FOREMAN  
2-LAB.

CONCRETE - FLOOR 24"

10-3-34 STA-11+60 TO 11+70-45' LONG  
2-TRUCKS  
METER 1-CRANE 1-FOREMAN  
67949 1-MIX-PLANT 1-CRANE-OPR  
67913 1-DINKY 1-BATCH-MAN  
36 1-AIR-COMPR 1-MIX-MAN  
SIDE-WALL-SOUTH 1-CEMENT-MAN  
7-BATCHES STA-14+28 TO 14+32 1-DINKY-OPR 67921  
1-BATCHES 4" HIGH 1- " 1-HELPER  
1-FINISHER  
10-LAB  
2-TRUCK-DRIVERS  
2-MECHANICS  
1-CARPENTER  
3- " 1-HELP

BATCH  
29 FLOOR

38  
GALS

8 P.M.

10-4-34  
MIRACLE 2-AIR-COMPR 1-FOREMAN  
No-1 3-DRILLERS  
10-4-34 1-BLACKSMITH

MIRACLE 2-AIR-COMPR 1-FOREMAN  
No-2 3-DRILLERS  
10-4-34  
No-3 - 1-AIR 2-DRILLERS  
CHAMBERS & GROUTING-ANCHORS 1-LAB-1-HOUR  
10-4-34  
No-1 1-SACK-CEMENT.

ROSENTHAL 1-CARPENTER FOREMAN  
No-2 2 "

10-4-34 10-LAB  
1-MECHANIC  
CONCRETE - SIDE-WALL

10-4-34 4' LIFT-STA-13+80 TO 1404 ✓

METER 4' LIFT-STA 13+32 TO 13+56 ✓

68032  
68012 6' LIFT-STA 14+28 TO 14+52  
20  
BATCHES

2-CRANES 2-CRANE-OPR  
1-MIX-PLANT 1-BATCH-MAN  
1-MIXER-MAN  
1-CEMENT-MAN  
1-FINISHER  
2-FOREMAN  
2-CARPENTERS  
11-LAB

39 GAL

230-4" TILE (13+20 TO 15+50)  
170-4" TILE NORTH-FOOTING

REPORTED-FROM 13+80 TO 15+50 ✓

8 a.m.

8 P.M.

600-001705-EX-01

10-5-34 2-AIR-COMP 1-FOREMAN ✓  
 No-1 3-DRILLERS  
 MIRACLE 1-BLACKSMITH

MIRACLE 1-AIR-COMP 2-FOREMAN ✓  
 No-2 2-DRILLERS

MIRACLE 1-AIR-COMP 2-DRILLERS ✓  
 No-3  
 10-5-34

CHAMBERS GROUTING-ANCHORS-FLOOR ✓  
 No-1  
 10-5-34 1-FOREMAN-4-HRS  
 2-STEEL-MEN-4-HRS  
 3-LAB, 4-HRS  
 (12-SACKS-CEMENT) ✓

CONCRETE-SOUTH-SIDE-WALL  
 10-5-34 6'-LIFT-STA-13+32 TO 13+56-SOUTH-WALL ✓  
 METER 6'-LIFT-STA-13+80 TO 14+04 " " ✓  
 68072  
 68032 6'-LIFT-STA-14+28 TO 14+52 " " ✓  
 40 1-TRUCK  
 BATCHES 2-CRANES 2-FOREMAN  
 240 1-MIXER-PLANT 2-CRANE-OPR  
 NORTH WALL 1-BATCHMAN  
 STA- 1-MIXER-MAN  
 1-CEMENT-MAN  
 1-FINISHER  
 14-LAB  
 4'-LIFT-15+26 TO 15+50 1-CARP-HELPRS  
 4'-LIFT-14+78 TO 15+02 1-WELDER  
 4'-LIFT-14+30 TO 14+54 1-MECHANIC ✓

10 P.M.

MIRACLE 2-AIR-COMP 1-FOREMAN  
 No-1 3-DRILLERS  
 10-6-34

MIRACLE 1-AIR-COMP 1-FOREMAN ✓  
 No-2 2-DRILLERS ✓  
 10-6-34

MIRACLE 1-AIR-COMP 2-DRILLERS ✓  
 No-3  
 10-6-34

CHAMBERS GROUTING-ANCHORS  
 No-1 1-FOREMAN (11-SACKS CEMENT) ✓  
 10-6-34 1-STEEL-MAN  
 4-LAB.  
 10-6-34

METER CONCRETE-SIDE-WALL 1-AIR-COMP.  
 68145 4-TRUCK  
 68082 4'-LIFT-14+28 TO 14+52 4'-SOUTH 2-CRANES  
 63 1-TRUCK  
 BATCH 1ST LIFT-14+04 TO 14+28 4-SOUTH 1-MIX-PLANT  
 WATER 3RD LIFT-13+80 TO 14+04 = 6'-SOUTH-S 2-FOREMAN  
 40 GAL. 1ST LIFT 13+06 TO 13+80 = 4'-SOUTH-S 2-CRANE-OPR  
 3RD LIFT 13+32 TO 13+56 = 6'-SOUTH-S 1-BATCH-MAN  
 1-MIX-MAN  
 1-CEMENT-MAN  
 1-FINISHER  
 14-LAB  
 3-CARPENTERS  
 3- " 1-HELP  
 FLOOR 7'-WIDE-SS FOOT-OR-SLOPE  
 6-BATCHES = FLOOR-14+28 TO 14+02 NORTH-SIDE-WALL  
 1ST LIFT-14+78 TO 15+02 = 6'-NORTH-S  
 2ND LIFT-14+30 TO 14+54 = 6'-NORTH-S  
 1ST LIFT-13+80 TO 14+04 = 4'-NORTH-S  
 1ST LIFT-13+32 TO 13+56 = 4'-NORTH-S ✓  
 END-CUT-OFF-WALL-15+50-SOUTH-SIDE  
 " " " " " " TOP = 17-BATCHES

378

10 P.M.

MIRACLE CO  
 10-8-34 2-AIR-COMPR 1-FOREMAN  
 3-DRILLERS  
 1-BLACKSMITH

MIRACLE NO-2  
 10-8-34 2-AIR-COMPR 1-FOREMAN  
 3-DRILLERS

NO-3 2-AIR-COMPR 3-DRILLERS

CHAMBERS 1-FOREMAN-4-HRS  
 ANCHOR 4-STEEL-MEN-4-HRS  
 GROUTING 3-LAB-4-HRS.

(12-SACKS-CEMENT)

METER 1-AIR-COMPR 1-STEEL-FOREMAN 4-H  
 68298 1-CRANE 4-H  
 68201 1-MIX-PLANT 4-H  
 97 2-TRUCKS

BATCHES  
 45 WATER  
 1-STEEL-FOREMAN  
 4-MEN  
 2-LAB  
 2-TRUCK-DRIV  
 1-CRANE-OPR  
 1-BATCH-MAN  
 1-MIX-MAN  
 1-CEMENT-MAN  
 1-FINISHER  
 2-FOREMAN  
 6-CARPENTERS  
 1-WELDER  
 1-MECHANIC  
 17-LAB

584 SACKS

12:30 a.m.  
 FINISH

65

MIRACLE NO-1  
 10-9-34 2-AIR-COMPR 1-FOREMAN  
 3-DRILLERS  
 1-BLACKSMITH

NO-2 2-AIR-COMPR 1-FOREMAN  
 3-DRILLERS

NO-3 2-AIR-COMPR 3-DRILLERS

10-9-34 CONCRETE- 68428  
 METER FLOOR 10+70 TO 10+80 = 16-BATCHES

68428 FLOOR 10+50 TO 10+60 2-40 P.M.  
 68339 2-CRANE 2-FOREMAN  
 89 2-TRUCKS 2-CRANE-OPR  
 1-MIXER-PLANT 1-BATCH-MAN  
 1-MIXER-MAN 1-MECHANIC  
 1-CEMENT-MAN  
 2-FINISHER  
 5-CARPENTERS

WATER 38  
 COAL FLOOR- 13+80 TO 14+04 = SOUTHSIDE 7' WIDE  
 13+32 TO 13+56 = S.S. 7' WIDE

TOTAL BATCHES 103 SOUTH-SIDE WALL  
 2ND LIFT = 6' 13+56 TO 13+80 = 7 BATCHES

619 2ND LIFT = 6' 14+04 TO 14+28 = 7 BATCHES

584 SACKS CEMENT  
 2:40 P.M.  
 TO  
 12-P.M.

74

10-10-34 — 8 A.M TO

MIRACLE 2-AIR-COMPR - 1-FOREMAN  
 NO-1 3-DRILLERS  
 10-10-34 1-BLACKSMITH

NO-2 2-AIR-COMP. 1-FOREMAN  
 3-DRILLERS

NO-3 2-AIR-COMP. - 3-DRILLERS

CHAMBERS 1-FOREMAN  
 4-STEEL-MEN  
 3-LAB,

10-10-34 SIDE-WALL 29-BATCH-CONCR - 6-BATCH GROUP  
 10+80 - TO 10+90 8-AM TO  
 METER 2-CRANES 2-FOREMAN  
 68700 3-TRUCKS 2-CRANE-OPR  
 68551 1-MIX-PLANT 1-BATCH-MAN  
 149 1-AIR-COMPR 1-MIX-MAN  
 BATCHES 1-CEMENT-MAN  
 2-FINISHERS  
 6-CARPENTERS  
 24-LAB,

4'-LIFT-1ST-13+08 TO 13+32 - S-S ✓  
 6'-LIFT-3RD-14+04 TO 14+28 - S-S ✓  
 WATER 6'-LIFT-3RD 13+56 TO 13+80 - S-S ✓  
 38 GALS 4'-LIFT-1ST 15+00 TO 15+24 - S-S ✓  
 4'-LIFT-1ST 14+52 TO 14+76 SOUTH-WALL  
 FLOOR-10+80 TO 10+90-136' AND CUT OFF WALL  
 FLOOR-13+82 TO 14+06 6'-WIDE - NORTH  
 FLOOR-14+30 TO 14+54 6'-WIDE  
 894 FLOOR-14+78 TO 15+02 6'-WIDE ✓  
 SACKS FLOOR-15+26 TO 15+50 6'-WIDE ✓  
 FLOOR-13+84 TO 13+58 6'-WIDE ✓

SOUTH-WALL-30-BATCHES  
 1-A-M.

MIRACLE 2-AIR-COMPR 1-FOREMAN  
 10-11-34 3-DRILLERS  
 NO-1 1-BLACKSMITH

NO-2 2-AIR-COMPR 1-FOREMAN  
 3-DRILLERS

NO-3 2-AIR-COMPR 3-DRILLERS

CHAMBERS 1-STEEL-FOREMAN  
 4- " MEN  
 10-11-34 3 " LAB.

10-11-34-CONCRETE  
 FLOOR-10+40 TO 10+50 - 136' long.  
 68940 2-CRANES 2-FOREMAN  
 68800 3-TRUCKS 2-CRANE-OPR  
 142 1-MIX-PLANT 1-BATCH-MAN  
 1-AIR-COMPR 1-MIXER-MAN  
 1-CEMENT-MAN  
 2-FINISHERS  
 8-CARPENTERS  
 26-LAB  
 1-MECHANIC  
 1-WELDER.

FLOOR FLOOR-10+40-10+50 - 136'  
 87 10+20-10+30 - NORTH 70'  
 BATCHES WALL 15'-LIFT-4'-13+58 TO 13+82 - NORTH-WALL  
 15 15'-LIFT-4'-15+02 TO 15+26 - NORTH-W  
 BATCHES 15'-LIFT-4'-14+54 TO 14+78 - NORTH-W  
 WATER 15'-LIFT-4'-14+06 TO 14+30 - NORTH-W  
 41 4TH-LIFT-6'-14+30 TO 14+54 - NORTH-WALL  
 4TH-LIFT-6'-14+78 TO 15+02 - NORTH-WALL  
 4TH-LIFT-6'-15+26 TO 15+50 - NORTH-WALL  
 2ND-LIFT-6'-15+00 TO 15+24 - SOUTH-WALL  
 4TH-LIFT-6'-13+84 TO 13+58 - NORTH-W



10-12-34 2-AIR-COMPR 1-FOREMAN  
3-DRILLERS  
MIRACLE  
NO-1 1-BLACKSMITH

MIRACLE 2-AIR-COMPR 1-FOREMAN  
NO-2 3-DRILLERS

MIRACLE 2-AIR-COMPR 3-DRILLERS  
NO-3

C BODENHAMER 2-CARPENTERS

2-LAB.  
1-WELDER  
1-MECHANIC

10-13-34 1-AIR-COMPR 1-FOREMAN  
MIRACLE 2-DRILLERS  
NO-1 1-BLACKSMITH

NO-2 1-AIR-COMPR 1-FOREMAN  
3-DRILLERS

NO-3 1-AIR-COMPR 2-DRILLERS

CHAMBERS 1-FOREMAN 8-SACKS-10-11-24  
4-STEEL-MEN 5-SACKS  
3-LAB 13-TOTAL

FLOOR-9+66 to 9+78 -136'

10-13-34 1-CRANE 2-FOREMAN  
1-MIX-PLANT 1-CRANE-OPR  
METER 2-TRUCKS 1-BATCH-MAN  
64202 1-MIX-MAN  
69107 1-CEMENT-MAN  
100 2-TRUCK-DRIVERS  
BATCHES 5-CARPENTERS  
22-LAB  
1-MECHANIC  
1-WELDER  
1-FINISHER

40 GALS

600  
SACKS

FLOOR - SOUTH-SIDE	FLOOR - NORTH-SIDE
15+00 TO 15+24-6'	13+58 - 13+82-6'
14+52 TO 14+76-6'	14+06 - 14+30-6'
13+08 - 13+32-6'	14+54 - 14+78-6'
	15+02 - 15+26-6'

1-BATCH - DUMPED - LOST

10-15-34 2-AIR-COMPR 1-FOREMAN  
 NO-1 3-DRILLERS  
 MIRACLE 1-BLACKSMITH

NO-2 2-AIR-COMPR 3-DRILLERS

NO-2 1-AIR-COMPR 2-DRILLERS

CHAMBER 1-FOREMAN  
 NO-1 4-STEEL-MEN  
 10-15-34 2-LAB.  
 (9-SACKS-CEMENT)

10-15-34 CONCRETE-FLOOR  
 9+76 TO 9+90-NORTH-86' 12-M

METER 69543  
 69368 9+54 TO 9+66 -136' TO  
 175' 9+30 TO 9+42 -136' ✓

BATCHES 1-CRANE 2-FOREMAN 11 P.M.  
 1-MIX-PLANT 1-CRANE-OPR  
 3-TRUCKS 1-BATCH-MAN  
 1-MIX-MAN  
 1-CEMENT-MAN

WATER 1-FINISHER  
 40- 3-CARPENTERS  
 26-LAB  
 2-TRUCK-DRY  
 1-WELDER  
 2-MECHANICS ✓

MIRACLE 1-FOREMAN ✓  
 10-16-34 2-AIR-COMPR 9-DRILLERS  
 NO-1 1-BLACKSMITH ✓

NO-2 2-AIR-COMP 1-FOREMAN  
 3-DRILLERS

NO-3 2-AIR-COMP 3-DRILLERS ✓

CHAMBERS - GROUTING ANCHORS 1-FOREMAN  
 PLACING-STEEL 4-STEELMEN  
 10-16-34 9+07 TO 9+19 - SOUTH-65' 3-LAB.  
 9+42 TO 9+54 - 136' 7-SACKS-CEMENT

8+83 TO 8+90 - NORTH-65' 2:30 P.M.  
 130 A.M.

69784 1-CRANE 2-FOREMAN  
 69615 1-MIX-PLANT 1-CRANE-OPR  
 169' 1-AIR-COMPR 3-TRUCK-DRIVERS  
 BATCHES 1-BATCH-MAN  
 1-MIX-MAN  
 1-CEMENT-MAN  
 2-FINISHER

SACKS 26-LAB  
 CEMENT 1-WELDER  
 1614 2-MECHANICS ✓  
 39 6-CARPENTERS  
 98ALS

MIRACLE  
10-17-34 1-AIR-COMPR 1-FOREMAN  
NO-1 5-H-RS 2-DRILLERS

NO-2 1-AIR-COMP 1-FOREMAN  
3-DRILLERS

CHAMBERS 1-FOREMAN } GRUUTING-ANCHORS  
4-STEEL-MEN }  
NO1 4-LAB } PLACING-STEEL

10-17-34 (10-SACKS-CEMENT)

BODENHAMER 1-TRUCK - 1-FOREMAN  
1-AIR-COMP. 4-LAB  
1-CRANE 1-CRANE-OPR  
1-WELDER.

12-30  
TO  
5-PM

MIRACLE 1-AIR-COMP 1-FOREMAN  
10-18-34 1-BLACKSMITH  
NO- 3-DRILLERS

NO-2 2-AIR-COMPR 1-FOREMAN  
2-DRILLERS  
NO-3 2-AIR 2-DRILLERS

A.M  
9 TO  
8<sup>30</sup> P.M.

CHAMBERS GRUUTING + PLACING-STEEL

1-STEEL-FOREMAN (10 SACKS-CEMENT)  
4- " MEN  
3- " LAB.

10-18-34 CONCRETE-FLOOR  
8+62 TO 8+74 - SOUTH-END  
8+95 TO 9+07 - NORTH-60'

3-TRUCKS 2-FOREMAN  
1-CRANE 1-CRANE-OPR  
1-MIX-PLANT 1-BATCH-MAN  
1-CEMENT-MAN

8#  
BATCHES 2-FINISHERS  
6-CARPENTERS  
25-LAB. 8<sup>30</sup> P.M.  
2-MECHANICS  
1-WELDER  
3-TRUCK-DRIVERS

WATER  
37 GAL

SOUTH-WALL  
1511 FT-4: 11+64 TO 11+88

76  
SACKS

FLOOR  
76  
BATCHES

SOUTH  
WALL  
7  
BATCHES

MIRACLE 2-AIR-COMPR 1-FOREMAN  
 NO-1 3-DRILLERS ✓  
 10-19-34 1-BLACKSMITH ✓

NO-2 1-AIR-COMPR 2-DRILLERS ✓

NO-3 1-AIR-COMPR 2-DRILLERS ✓

CHAMBER GROUTING + PLACING - STEEL  
 1-STEEL-FOREMAN  
 4- " MEN  
 3-LAB ✓  
 (2 SACKS-CEMENT)  
 10-19-34

METER CONCRETE-FLOOR -  
 70258  
 70094 FLOOR, 8+95 TO 9+07 SOUTH-76' ✓  
 163 8+74 TO 8+86 - 136'

BATCHES 1-CRANE 2-FOREMAN  
 1-MIX-PLANT 1-CRANE-OPR  
 3-TRUCKS 1-BATCH-MAN  
 1-MIX-MAN  
 1-CEMENT-MAN  
 2-FINISHERS  
 3-CARPENTERS  
 2-LAB  
 3-TRUCK-DRIVERS ✓  
 1-WELDER

WALL 49 BATCHES  
 FLOOR 115 "  
 TOTAL 164 "

WATER  
 36

690  
 SACKS

94

49.0

10<sup>30</sup>  
 A.M.

10  
 HRS

60.4 BATCHES = 136' X 12" X 12' 66

MIRACLE 1-AIR-COMP 1-FOREMAN  
 NO-2 2-DRILLERS  
 10-20-34 1-BLACKSMITH - 4 HRS ✓

NO-2 1-AIR-COMPR. 1-FOREMAN  
 2-DRILLERS

2-HRS.

CHAMBERS GROUTING-ANCHORS ✓

10-20-34 1-LAB 4-HRS  
 1-STEEL-MAN-4 HRS. ✓  
 (2 SACKS-CEMENT)

10-20-34 CONCRETE-FLOOR 4 P.M.  
 FLOOR-8+38 TO 8+50 - 25' long TO

METER 1-CRANE 1-FOREMAN  
 1-MIX-PLANT 1-CRANE-OPR 6 P.M.  
 70316 1-TRUCK 1-BATCH-MAN  
 1-CEMENT-MAN  
 1-TRUCK-DRIVER  
 15-LAB  
 1-MECHANIC  
 1-WELDER  
 2-FINISHERS.

WATER  
 38

140157 - OUT-OF-ORDER ✓

11.5  
 BATCHES

69  
 SACKS

MIRACLE  
HO-1  
10-22-34

2-AIR-COMPR

1-FOREMAN

2-DRILLERS

1-LAB

1-BLACKSMITH

No-2

2-AIR-COMP

1-FOREMAN

2-DRILLERS

No-3

CHAMBERS

1-FOREMAN

1-STEEL-MAN

3-LAB

CROUTING

(8-SACKS-CEMENT)

10-22-34

FLOOR-12+87.7 TO-12+63.7-34'

METER

"

8+15 TO 8+27

70617

70477

140

BATCHES

2-TRUCK

1-CRANE

1-STEAM-HOIST

1-BOILER

2-FOREMAN

15-LAB

2-FINISHERS

8-CARPENTERS

1-CRANE-OPR

2-TRUCK-DRIVER

1-HOIST-OPR

1-FIREMAN

2 P.M.

TO

2 A.M.

720  
SACKS

37  
WATER

FLOOR

120-  
BATCHES

67

MIRACLE

10-22-34

No-1

2-AIR-COMPR

1-FOREMAN

2-DRILLERS

1-LAB

No-2

1-AIR-COMP

1-FOREMAN

2-DRILLERS

CHAMBERS-GROUTING + PLACING-STEEL

3-SACKS-CEMENT

1-FOREMAN

METER

8+27 TO 8+38 - NORTH-120'

70927

7+91 TO 8+03 - NORTH-35'

70786

12+15 TO 12+39-32 - LONG-NORTH-S

141

BATCHES

1-CRANE

2-TRUCKS

1-HOIST

2-FOREMAN

1-MIX-MAN

1-BATCH-MAN

2-CRANE-OPR

1-CEMENT-MAN

13-CARPENTERS

2-FINISHERS

2-TRUCK-DRIVERS

1-MECHANIC

1-WELDER

15-LAB

2 P.M.

FLOOR

131

BATCHES

WATER

36

786

SACKS

TO

11:30

MIRACLE 2-AIR-COMPR 1-FOREMAN  
NO-1 3-DRILLERS  
10-24-34

NO-2 2-AIR-COMPR 1-FOREMAN  
3-DRILLERS

CHAMBERS GROUTING-ANCHORS-PLACING-STEEL  
NO-1  
10-24-34 1-FOREMAN  
1-STEEL-MAN  
3-LAB.

(2-SACKS-CEMENT)

10-24-34 CONCRETE

SOUTH-30' FLOOR - 7+67 TO 7+74 +79  
NORTH-39' - 8+03 TO 8+10

71122 1-MIX-PLANT 2-FOREMAN  
71075 1-CRANE 1-CRANE-OPR  
47 2-TRUCKS 1-BATCH-MAN  
1-MIX-MAN  
1-CEMENT-MAN  
2-FINISHERS  
1-WELDER  
1-MECHANIC  
2-TRUCK-DRIV  
8-CARPENTERS  
10-LAB.

34-BATCH  
FLOOR

WATER  
37

20  
SACKS

675-1-BATCHES 64532  
3:15 P.M. - 10-25-34

68

MIRACLE 1-AIR-COMPR 1-FOREMAN  
NO-1 2-DRILLERS  
10-25-34

JOB  
6-HRS-FINISHED

CHAMBERS 1-STEEL-FOREMAN  
2-STEEL-MEN  
4-LAB

7:44  
7:40  
7:44

2 P.M.  
TO  
2:30  
A.M.

10-25-34 CONCRETE-FLOOR-

7+79 TO 7+91-NORTH-100'-LONG

METER- 7+51.6 TO 7+59.4

71401  
71283

138 1-CRANE  
50 1-MIX-PLANT  
88 2-TRUCKS  
1-HOIST

86  
FLOOR  
BATCH

WATER  
37

528  
SACKS

DUCT-SIDE-WALL-60-BATCHES  
REPORTED BY VAN S. EGGERS

CHAMBERS - PLACING-STEEL

10-26-34

1-FOREMAN

3-STEEL-MEN

NO-1

3-LAB

10-26-34 CONCRETE SHIFT NO. 2.

METER- FLOOR- 7+59.4 TO 7+71- FINISHED

71601

71519

82

BATCHES

SIDE WALLS  
5  
BATCHES

1-MIX-PLANT

3-TRUCKS

1-CRANE

1-HOIST

1-FOREMAN

1-CRANE-OPR

1-BATCH-MAN

1-MIX-MAN

1-CEMENT-MAN

3-TRUCK-DRIVERS

16-LAB

5-CARPENTERS

1-FINISHER

1-MECHANIC

1-WELDER

77-BATCHES-IN-FLOOR

WATER

(462-SACKS-CEMENT)

38

CHAMBERS - GROUTING-ANCHORS

10-27-34

NO-1

1-STEEL-FOREMAN

2-LAB. (7-SACKS-CEMENT)

MOENHAMER - 3-LAB-ON-EXCAVATION

10-27-34-CONCRETE

1-CRANE

1-MIX-PLANT

1-TRUCK

1-FOREMAN

2-WELDERS

1-CRANE-OPR

1-BATCH-MAN

1-MIX-MAN

1-CEMENT-MAN

9-CARPENTERS

20-LAB.

FLOOR- 9+96 TO 10+20 SOUTH-SIDE

WALL- 10+20 TO 10+44-2ND LIFT-6'

" 11+16 TO 11+40-7TH LIFT 6'

" 9+24 TO 9+48-2ND LIFT 6'

FLOOR 10+44 TO 10+68-SOUTH-SIDE-7'

192  
SACKS

WATER

42

WALLS

18-BATCHES

FLOOR-12

BATCHES

No-1 - CONCRETE

10-29-34 WALL-SOUTH-6<sup>TH</sup> LIFT-11+88 TO 12+12

METER 1-CRANE  
 71750 1-MIX-PLANT  
 71703 1-TRUCK  
 47

1-WELDER  
 2-MECHANICS  
 2-FOREMAN  
 1-CRANE-OPR  
 1-BATCH-MAN  
 1-MIX-MAN  
 1-CEMENT-MAN  
~~1-TRUCK-DRIVER~~  
 8-CARPENTERS  
 20-LAB  
 3-TRUCK-DRIVERS

282- SACKS / WALL-SOUTH-2<sup>ND</sup> LIFT-10+20 TO 11+4

CEMENT WALL-SOUTH-6<sup>TH</sup> LIFT-12+36 TO 12+60

WATER // SOUTH 6<sup>TH</sup> LIFT-11+88 TO 12+12

WALL NORTH TOP-LIFT-14+06 TO 14+30

WALL NORTH 5<sup>TH</sup> LIFT

41 WALL SOUTH 2<sup>ND</sup> LIFT-6'-9+72 TO 7+96

SOUTH-SIDE FLOOR-10+92 TO 11+16

WALLS-5-BATCHES-GROUT

" 32 " CONCRETE

FLOOR 10 " "

47-BATCHES

CHAMBERS 1-FOREMAN - PLACING-STEEL

10-29-34 1-STEEL-MAN - CROUTING-ANCHORS

3-LAB

MIRACLE 1-AIR-COMPR 1-FOREMAN

10-29-34 1-DRILLER

NO-1

CONCRETE-10-30-34  
 SPILLWAY-EXTENSION

SHIFT-NO-1

METER 1-CRANE 2-FOREMAN  
 1864 1-CRANE-OPR  
 1816 1-MIX-PLANT 1-BATCH-MAN  
 48 1-TRUCK 1-MIX-MAN  
 1-AIR-COMPR 1-CEMENT-MAN  
 1-HOIST 20-LAB-9  
 8-CARPENTERS  
 2-FINISHERS  
 2-TRUCK-DRIVER  
 2-WELDERS

SOUTH-WALL 12+36 TO 12+60-7<sup>TH</sup> LIFT 6'

SOUTH-WALL 11+88 TO 12+12-7<sup>TH</sup> LIFT 6'

SOUTH-WALL 10+92 TO 11+16-3<sup>RD</sup> 6'

SOUTH-WALL 9+72 TO 9+96-3<sup>RD</sup> 6'

SOUTH-WALL 10+20 TO 10+44-3<sup>RD</sup> 6'

SOUTH-WALL 10+68 TO 10+92-3<sup>RD</sup> 6'

SOUTH-WALL 11+40 TO 11+64-3<sup>RD</sup> 6'

NORTH-WALL 13+58 TO 13+82 TOP 5'

43-BATCHES-CONCRETE

7-GROUT

48-TOTAL

288 SACKS

1/2 WATER

4-CROUT  
 48-CONCRET

CHAMBERS - GROUTING + PLACING-STEEL

1-STEEL-FOREMAN (1/2 SACKS-CEMENT)

4-MEN

3-LAB



CONCRETE-  
SPILLWAY-EXTENSION

10-3134 SHIFT-NO-1 7 AM, TO 2<sup>30</sup> PM.

2-CRANE	2-FOREMAN
1-MIX-PLANT	2-CRANE-OPR
3-TRUCKS	1-BATCH-MAN
1-HOIST-	1-MIX-MAN
1-AIR-COMPR	1-CEMENT-MAN
3-BATCH	3-TRUCK-DRIVERS
WALLS 374-24	1-HOIST-MAN
FLOOR 6	1-MECHANIC
TOTAL 46	1-WELDER
	8-CARPENTERS
	20-LAB
	2-FINISHERS

3-BATCHES  
GROUT

WATER  
40  
GALS

276  
SACKS  
CEMENT

FLOOR NORTH-SIDE

8+85 TO 9+09 - 7' WIDE (6-B)

SOUTH-WALL	12+36 TO 12+60 - 8 <sup>TH</sup> LIFT
"	" 11+88 TO 12+12 - 8 <sup>TH</sup> LIFT
"	" 11+64 TO 11+88 - 6 <sup>TH</sup>
"	" 11+16 TO 11+40 - TOP
"	" 11+40 TO 11+64 - 5 <sup>TH</sup> LIFT
"	" 10+68 TO 10+92 - 4 <sup>TH</sup> LIFT

CHAMBERS - GROUTING & PLACING - STEEL

1-FOREMAN  
3-STEEL-MEN  
1-LAB

(1-SACK-CEMENT) ✓

NOVEMBER-1-1934 - RAIN  
SPILLWAY-EXTENSION 11  
CONCRETE

METER

72144

72099

45-

BATCHES

NORTH-WALL

12+57 TO 12+81 - 1<sup>ST</sup> LIFT,  
3-GROUT 10+77 TO 11+01 - 1<sup>ST</sup> LIFT

42-1-2-4

3-GROUT

45-TOTAL

2-CRANES-  
1-MIX-PLANT  
2-TRUCK

2-FOREMAN  
2-CRANE-OPR  
1-BATCH-MAN  
1-MIX-MAN  
1-CEMENT-MAN  
2-FINISHERS  
2-TRUCK-DRY  
10-CARP  
16-LAB  
1-MECHANIC  
1-WELDER

WATER:  
41

270  
SACKS-  
CEMENT

(TOO-MUCH-CONCRETE-WASTED)

SOUTH-WALL

12+56 TO 12+60 - TOP-LIFT  
12+12 TO 12+36 - 8<sup>TH</sup> LIFT,  
11+88 TO 12+12 - 10<sup>TH</sup> LIFT,  
11+64 TO 11+88 - 8<sup>TH</sup> LIFT.

CHAMBERS PLACING-STEEL

1-FOREMAN  
1-STEEL-MAN  
1-LAB

11-2-34  
SPILLWAY-EXTENSION  
CONCRETE  
7 A.M. - 2<sup>30</sup> P.M.

METER	-1-CRANE	2-FOREMAN
72326	1-MIX-PLANT	1-CRANE-OPR
72274	2-TRUCKS	1-BATCH-MAN
<u>5-2</u>	1-AIR-COMP	1-MIX-MAN
	3-GROUT	1-CEMENT-MAN
	49-1-2-4	1-FINISHER
02		11-CARPENTERS
		18-LAB-149
		1-DRILLER
		1-WELDER

SOUTH-SIDE-FLOOR

5.5 BATCH = FLOOR - 8+80 TO 9+04 - SOUTH SIDE  
 NORTH-SIDE-FLOOR  
 5.5 BATCH = 8+37 TO 8+61 -  
 WATER 11+97 - 12+21 - NORTH SIDE  
 8-0-BAT SIDE-WALL 29  
 40 FLOOR - 20  
 CROFT - 3  
5-2-TOTAL

312  
SACKS  
CEMENT

SOUTH-WALL

+ 8+60 TO 8+84 - 1<sup>ST</sup> LIFT - FOOTING  
 + 11+88 TO 12+12 - TOP  
 NORTH-WALL  
 + 9+81 TO 10+05 - 2<sup>ND</sup> LIFT  
 + 10+05 TO 10+29 - TOP 1/2 - 1<sup>ST</sup>  
 + 10+53 TO 10+77 - 1<sup>ST</sup> LIFT  
 + 8+37 TO 8+61 - TOP 1/2 FIRST-LIFT

MIRACLE PACING-STEEL  
 1-STEEL-FOREMAN  
 1-STEEL-MAN  
 3-LAB-

11-3-34  
SPILLWAY-EXTENSION  
7 A.M. - 12-M. CONCRETE

72

METER	1-CRANE	2-FOREMAN
72504	2-TRUCK	1-CRANE-OPR
72463	1-MIX-PLANT	1-BATCH-MAN
<u>39</u>	1-AIR-COMPR	1-MIX-MAN
	4-GROUT	1-CEMENT-MAN
	35-1-2-4	2-TRUCK-DRIV
<u>39-TOTAL</u>		1-WELDER
		1-FINISHER
		16-LAB-
		11-CARPENTERS
		1-DRILLER

WATER  
39

SOUTH-WALL  
 11+64 TO 11+88 - 9<sup>TH</sup> LIFT  
 10+68 TO 10+92 - 6<sup>TH</sup> LIFT - 6'  
 12+12 TO 12+36 - 9<sup>TH</sup> LIFT - 6'  
 10+44 TO 10+68 - 2<sup>ND</sup> LIFT - 6'  
 9+48 TO 9+72 - 5<sup>TH</sup> LIFT - 6'  
 9+96 TO 10+20 - 1<sup>ST</sup> LIFT

234  
SACKS

(1-SACK-CEMENT)  
 (GROUTING-ANCHORS)

11-6-34-  
SPILLWAY-EXTENSION  
CONCRETE

METER SHIFT-NO. 2 - 2:30 P.M. TO 10:30 P.M.

72696

72648

48

1-CRANE  
3-TRUCKS  
1-MIX-PLANT  
1-AIR-COMPR  
1-HOIST

43-1-2-4

5-CROUT

48-TOTAL SOUTH-WALL

10+44 TO 10+68 - 3RD LIFT  
12+12 TO 12+36 - TOP-FINISHED  
10+92 TO 11+16 - 6TH LIFT.

42

WATER

NORTH-WALL

10+53 TO 10+77 - 2ND LIFT  
10+77 TO 11+01 - 2ND LIFT  
12+45 TO 12+57 - 2ND LIFT  
12+81 TO 13+05 - 2ND LIFT

288

SACKS

11-7-34- SHIFT-NO 2 73  
SPILLWAY-EXTENSION  
CONCRETE

METER

72864

72822

42

1-CRANE  
1-MIX-PLANT  
1-AIR-COMPR  
1-HOIST

3-GROUT

1-BULLDOZER  
2-TRUCKS

39-1-2-4

3-GROUT

42

2-FOREMAN  
2-CRANE-OPR  
1-BATCH-MAN  
1-MIX-MAN  
1-CEMENT-MAN  
2-TRUCK-DRIVERS  
12-CARPENTERS  
20-LAB  
1-DRILLER  
1-FINISHER  
1-HOIST-OPR  
1-WEIDER

NORTH-WALL

42

WATER

9+39 TO 9+57 - 3RD LIFT  
8+19 TO 8+37 - 3RD LIFT  
8+37 TO 8+61 - 3RD LIFT  
8+61 TO 8+85 - 2ND LIFT  
11+25 TO 11+49 - 3RD LIFT  
7+86 TO 7+90 - 1ST LIFT, TOP 1/2  
7+40 TO 7+48 - 1ST LIFT

252

SACKS

S. PILLWAY-EXTENSION  
CONCRETE

METER 11-8-1934-SHIFT-NO 2

72985  
72954  
31

1-CRANE  
1-MIX-PLANT  
2-TRUCK-DRIV  
1-HOIST  
1-AIR-COMPR.  
1-2-4  
29-BATCHES  
2-CROUT  
31-TOTAL

1-FOREMAN  
11-CARPENTERS  
16-LAB  
1-CRANE-OPR  
1-BATCH-MAN  
1-MIX-MAN  
16-LAB  
1-DRILLER  
1-FINISHER  
2-TRUCK-DRV  
1-WELDER  
1-HOIST-OPR  
1-CEMENT-MAN

FLOOR-NORTH-SIDE

7+66 TO 7+90- 6 BAT  
7+40 TO 7+48- 2 1/2 " 8. FLOOR

NORTH WALL

7+66 TO 7+90-TOP 1/2 1ST LIFT  
7+48 TO 7+66-1ST LIFT  
7+90 TO 8+13-1ST LIFT  
8+61 TO 8+85-3RD LIFT

39

WATER

186  
SACKS

S. PILLWAY-EXTENSION  
CONCRETE

74

METER 11-9-34 SHIFT NO 2 - 3 TO 11 AM.

73121  
73077  
44  
BATCHES

1-CRANE  
1-MIX-PLANT  
1-HOIST  
1-AIR-COMP.  
1-TRUCKS.

2-FOREMAN  
12-CARP  
19-LAB  
1-DRILLER  
1-TRUCK-DRIV  
1-WELDER  
1-FINISHER  
1-HOIST-OPR  
1-HELPER  
2-CRANE-OPR  
1-BATCHMAN  
1-MIX-MAN  
1-CEMENT-MAN

39-1-2-4  
5-GROUT

44-TOTAL

WALLS-36  
FLOOR-3  
GROUT-5  
TOTAL-44

FLOOR-3-BATCHES.

1/2 BATCH-GROUT-WASTED

WATER  
40

SOUTH-WALL

11+40 TO 11+64-9TH LIFT. 6

10+92 TO 11+16-7TH LIFT. 6

10+44 TO 10+68-4TH LIFT. 6

8+80 TO 9+04-2ND LIFT

9+04 TO 9+24-2ND LIFT

NORTH-WALL

7+48 TO 7+66-TOP 1/2 1ST LIFT

7+90 TO 8+13-TOP 1/2 1ST LIFT

11+97 TO 12+21-5TH LIFT.

12+45 TO 12+57-6TH LIFT.

264  
SACKS

SPILLWAY-EXTENSION  
NOV-10<sup>TH</sup> 1934

CONCRETE

METER

73244

73211

33

BATCHES

1-CRANE

1-MIX-PLANT

2-TRUCK

1-BULLDOZER

1-AIR-COMPR

1-HOIST

30-1-2-4

3 CROUT

WATER

40

NORTH-WALL

7+48-7+66-2<sup>ND</sup>LIFT

7+66-7+90-2<sup>ND</sup>LIFT

8+37-8+61-TOP-FINISH

11+73-11+97-8<sup>TH</sup>LIFT

198  
SACKS

2-FOREMAN  
1-CRANE-OPR  
1-BATCH-MAN  
1-MIX-MAN  
1-CEMENT-MAN  
1-WELDER  
1-HOIST-OPR  
2-TRUCK-DRIV  
1-DRILLER  
12-CARPENTERS  
16-LAB.  
1-BULLDOZER-OPR

SPILLWAY-EXT  
NOV-13<sup>TH</sup> 1934

CONCRETE SHIFT-NO-3

75

METER

73384

73364

20

1-CRANE

1-BULLDOZER

1-AIR-COMPR

1-HOIST

2-TRUCKS

18-BATCHES-1-24

2-CROUT-

20-TOTAL

1-FOREMAN

16-LAB

1-CARPENTER

1-CRANE-OPR

1-BULLDOZER-OPR

1-BATCH-MAN

1-MIX-MAN

1-CEMENT-MAN

7-TRUCK-DRIVERS

1-HOIST-MAN

NORTH-WALL

10+77-10+91-6<sup>TH</sup>LIFT

12+81-12+100-TOP-FINISH

12+21-12+45-TOP-FINISH

120  
SACKS

SPILLWAY-EXTENSION  
NOV-14<sup>TH</sup> 1934-SHIFT-N<sup>o</sup>3

METER		1-FOREMAN
73433	1-MIX-PLANT	1-BATCH-MAN
73427	1-BULLDOZER	1-MIX-MAN
6	2-TRUCKS	1-HOIST-MAN
	1-HOIST	1-CARPENTER
	1-AIR-COMPR	1-TRUCK-DRIVER
		12-LAB

5-BATCHES-1-2-4

1-GROUT

6-TOTAL

NORTH-WALL

11+73-11+97-TOP

WATER

40

36  
SACKS  
CEMENT

73433

64532 METER-READING-FINAL

8901 = TOTAL-METER-BATCHES

METER-

64532-READING-SEPT-8<sup>TH</sup>-1934

SPILLWAY-EXTENSION  
CONCRETE

76

NOVEMBER-16-1934-SHIFT-N<sup>o</sup>3

1-MIXER	1-FOREMAN
1-HOIST	1-MIX-MAN
1-TRUCKS	1-HOIST-MAN
1-BULLDOZER	1-TRUCK-DRIVERS
1-AIR-COMPR	1-BULLDOZER-OPR.
	12-LAB.
	1-DRILLER

NORTH-WALL

12+45 TO 12+57-TOP-FINISH

11+97 TO 12+21-9<sup>TH</sup> LIFT.

BATCHES-

42-1-1-4

5-2-SACK-BATCH

47-TOTAL

PANELS-# 3, 5, 7.

94 sacks cement

SPILLWAY-EXTENSION  
NOV-16-1934-SHIFT-NO-3

MIX-CEMENT-2-SACKS=188 lbs.

SAND 466 #

1 1/2" 574 #

3/4" PEA 150 #

1-MIXER-	1-FOREMAN
<del>1-TRUCK</del>	<del>1-MIX-MAN</del>
<del>1-AIR-COMPR.</del>	<del>1-TRUCK-DRIVER</del>
<del>1-AIR-COMPR</del>	<del>1-HOIST-MAN</del>
	9-LAB
	1-DRILLER
	EXCAVATING

SPILLWAY-EXTENSION

NOV-17-1934

1-MIXER	1-FOREMAN
1-HOIST	1-HOIST-OPR
1-BULLDOZER	1-BULLDOZER-OPR
1-AIR-COMPR	1-DRILLER
2-TRUCKS-	2-TRUCK-DRIVERS
	10-LAB

6-BATCHES-1-2-4

12-SACKS-CEMENT

14-GALS-WATER

SPILLWAY-EXTENSION  
NOV-19-1934-RAIN-

1-FOREMAN  
1-CARP-FOREMAN  
16-LAB.  
1-MIX-MAN.

78

SPILLWAY-EXTENSION

NOV-20-1934-SHIFT-NO-1

77

2-TRUCKS	1-CARPENTER-FOREMAN
1-CRANE	1-FOREMAN-CONCRETE
1-AIR-COMPR	1-STEEL-FOREMAN
1-BULLDOZER	1-STEEL-MAN
	1-MIX-MAN
	1-WELDER
	21-LAB
	1-GRADE-FOREMAN
	3-CARPENTERS
	1-CRANE-OPR.
	1-BULLDOZER-OPR.

SPILLWAY-EXTENSION

CONCRETE-NOV-21-1934

1-HOIST	1-GRADE-FOREMAN
1-AIR-COMPR.	1-CARPENTER-FOREMAN
1-TRUCKS	1-CONCRETE - "
1-BULLDOZER	1-CRANE-OPR.
1-SHovel-2 HRS	1-STEEL - "
	1-STEEL-MAN
	1-HOIST-MAN
	1-DRILLER
	2-FINISHER
	16-LABPENTERS
	5-CARPENTERS
	1-CAT-OPR-
	1-SHovel-OPR-
	SOUTH-WALL
	876 0 TO 8+80-3/32 LIFT-

9+04 TO 9+24-TOP FINISH

~~10+60 TO 10+80 3/32 LIFT.~~

34-2-SACK-BATCHES-1-2-4

4-SACKS-CEMENT-GROUT

5-2-SACK-BATCHES-ON LOWER PART

11-17-34-3RD SHIFT

3RD LIFT STA 7+40 TO 7+48.

82-SACKS

By MIRACLE Co.

CEMENT - DELIVERED - FOR BODENHAM

NO	SACKS	BRAND	REMARKS
7-10-34	215	MONOLITH	39-SACKS - WET
	215	"	7-25-34 FROM
	210	"	WATER-HOG-BOX 627-SACKS-MOVED-

trial mix for 1-2-4 concrete

1-cu. yd. PATCH

6-SACKS-CEMENT

SEPT-4-1934

1300# SAND

74% =

1720# 1 1/2" + 1" ROCK

26% =

600# 3/4" PEA

100% =

2320#

ROCK

3620#

ROCK + SAND

}	860# 1 1/2" Run Rock	50%
	860# 1" - " "	50%
	400# 3/4" CRUSH-R	67%
	200# PEA " "	33%



8-15-34 HUNT-PROCESS-PAVING-COAT-15 lfl.

	STEEL ANCHOR	STEEL DELIVER	REQ	7-7-34-10 <sup>45</sup>	AM
			NO. RS	WT.	FROM H.G. FENTON BY MIRACLE
1" 7-10-34	4'-LONG HOOKED		1690	22640	"
1 1/4"	8'-LONG HOOKED		529	22670	"
1"	4'-6" HOOKED		1500	22660	7-20-34
1 1/4"	8'- HOOK		497	21050	7-23-34
1"	4'-6" HOOKED		1300	19740	7-24-34

FLOOR-STEEL

change from 5/8" to 5/8" at  
 anchor no 65, 5/8" - 16" center  
 5/8" center at 23" center  
 east + west. 10-10-34

11+12-

BODENHAMER-EQUIPMENT-5-9-1934

1-WHITE-DUMP-TRUCK-NO 10

1- " " " # 11

1-BOTTOM-DUMP-CONCRETE-BUCKET

4-CONCRETE-BUGGIES

1-SINGLE-DRUM-STEAM-HOISTING-ENGINE

1-PORTABLE-BARNES-HIGH-PRESSURE-FACT-PUMP

1-4-H FRESNO.

1-FEDERAL-TRUCK-5-17-34

1-FORD " " -5-16-34

1-WHITE-DUMP-TRUCK NO 11-5-28-34

1-CONCRETE-MIXER-7-SACK 5-28-34

1-STEEL-BUNKERS-6-20-34

1-NORTH-WEST-CRANE 8-13-34

1-AIR-COMPR-8-13-34-

1-TEAM-HORSES-8-20-34-A.M.

1-AIR-COMPR-8-21-34

1-P & H-CRANE-9-6-34

80  
KNAPP-EQUIPMENT-5-9-1934

1-75-CATERPILLAR-TRACTOR

1-70 "

1-CARRYALL

1-ROOTER

1-DIESEL-75-CAT-5-11-34

1-CARRYALL -5-11-34

1-AIR-COMPRESSOR-5-30-34

1-KNAPP-16 YD. CARRIER-6-4-34-7-30-34  
TAKEN-OFF  
WORK

H.G. FENTON.  
1-NORTH-WEST-SHOVEL-6-20-34-11 A.M.

3-CB GROVE-TRUCKS-6-21-34-7 A.M.

1-SHOVEL-NORTHWEST-7-5-34-11 A.M.

MIRACLE CO-SULLIVAN.  
1-AIR-COMPRESSOR-7-5-34-3<sup>20</sup> P.M.

1-30-CAT-7-6-34-10 A.M.

1-TEAM-HORSES-FRESNO-8-10-34-A.M.

4-27-34 OFF  
JOB.  
1-NORTH-WEST-SHOVEL-8-16-34

1-75-CAT-OFF-JOB } 9-6-34  
1-CARRYALL-OFF-JOB

1-75-CAT OFF-JOB }  
1-CARRYALL 9-11-34

POWDER - REC'D,  
KNAPP.

6-4-34

300 LBS. 40% POWDER

6-13-34

500 - 40%

500 - Granular

6-16-1934

1000-LBS. GRANULAR

6-25-34

300 LBS-40%

6-27-34

300 LBS-40%

7-2-34

1000 LBS.-40%

7-3-34

1000-LBS. GRANULATED

7-9-34-2000 LBS. 40%

7-25-34-2000 LBS. 40%

8-6-34-300-LBS-40%

8-9-34-500 LBS. GRANULATED

8-9-34-200 LBS-40%

8-16-34-200 LBS-40%

8-24-34-800 LBS-GRAN  
200 " 40%

cut off walls

1-9+10

2-10+78 - START-24" action

3-12+28 - END-24" "

4-13+93 -

TRIAL MIX-FOR-1:2:4 CONCRETE

6-SACKS-CEMENT

1400-SAND

74% = 1720 - 1/2" & 1" ROCK

26% = 600 - 3/4" PEA

6 sacks (CEMENT-TOTAL 895.5) 564 cement

sand 13.7 cu. ft.

Rock 1/2 + 1 = 18.4 " "

Gravel 3/4 + P. 66-33 6.3 " "

2-SACKS-CEMENT

466-SAND- 3,141.6

458-1 + 1/2" ROCK 12,566.4

236-3/4 CRUSHER 12.5 63

36 " PEA 10 20

11,99 126 1260

24 458-1 + 1/2" 125

11,99 266-3/4" PEA 63

750

7875

NO-WORK-BET-7+40 TO 8+40

ROCK-TO-BE-DEPOSITED-BETWEEN-STA 10+00 AND -23+00  
NO-MATERIAL-WASTED-ABOVE-EL. 576  
NO-WORK-BEYOND-15+50

PERMISSION-GIVEN-5-17-34 BY-MR. WOOD TO-CUT-THROUGH-SOUTH-SLOPE

AT-STA-9+50-KEEPING-ABOVE  
TOP-OF-CONCRETE-LINING  
24" FLOOR-10+78 TO 12+28  
9.5 x 6 x 3 1/4"

10+50-15+50 VERTICAL CURVE  
10+98-11+78  
3-7 HR-SHIFTS

4.6 m to 11 a.m.  
12 m to 4 p.m.  
8 p.m. to 3 a.m.  
5 day 7 HR  
1-11 5 HR

11+75-END VERTICAL CURVE  
#1 SAT -4-9-AM  
9 AM - 2 PM  
2:30 PM - 7:30 P.M.

10+78-CUT-OFF-WALL  
BEGINNING 24" SLAB  
TO  
12+28-CUT-OFF  
WALL  
4" FLOOR

1859 cu. yds  
1228  
1078  
150  
RADIUS 270'

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.  
ROADWAY 14 FEET WIDE. SIDE SLOPES 1 1/2 TO 1.  
FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

MADE IN GERMANY.

vertical curve begins at 10+98 to 11+78