

- L.O.D. -

- C. H. Bryson. -

AUG 21 1919 -

FIELD BOOK

361S

W113

KEUFFEL & ESSER CO.

DRAWING MATERIALS

AND

SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

Tables for Excavations and Embankments.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 14 FEET WIDE. SIDE SLOPES 1 TO 1.
FOR SINGLE TRACK EXCAVATION.

Copyright, 1895, by Keuffel & Esser Co."

	.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
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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 Julien A. Hall, M. Am. Soc. C. E.

FOR KEITH'S RAILROAD CURVE TABLES SEE END OF BOOK

Night, 8/21

Excavation - None.

Quarry - Operated only to supply mass rock to dam and to fill empty skips for day shift.

Mass Rock - good.

Masonry Placing -

Proportions - Good.

Duration - Good

Wetness - good

Liftence - Not objectionable

Mass Rock - good.

Placing - Separation of fine & coarse aggregate in skips at bottom of trough from mixer.

Sand Washing - No sand washed or hauled.

AUG 21 1919

Excavation - None

Sand Washing & Hauling - Progress to keep sand bin at concrete mixing plant, filled.

Quality - good.

Quarry - Mill rock - fair

Mass rock plenty but small.

Overburden - Bad. Being shoveled into skips & wasted. Satisfactorily clean rock being sent to crushers.

Masonry Placing -

Proportions - good.

Wetness - Slightly too wet.

Liftence - Not bad. Some collecting at downstream end of stall which foreman was carrying 1-2' lower than upstream end. Supt. instructed to have foreman carry up section level.

Mass Rock - Small in size.

Duration in mixer - good.

Grout Washing - Progress but slow on final grout washing of D.S. face - should have more crews on this work.

Placing - Concrete separating badly at end of wooden trough where being dumped from mixer into skips. Fine aggregate going to back of skips & coarse to front. Supt. attention called to this fact.

AUG 22 1919

Night.

Entire crew in Quarry producing & delivering rock for crushers which run until supper - after supper loading empty mill rock skips for day shift. When night shift went on crushed rock bins were empty.

Mill rock - fair

Mass rock - no requirement

Overburden - Bad - Satisfactorily clean rock being sent to crushers.

AUG 22 1919

Day.

Sand Washing & Hauling - Progress to keep sand bin at concrete mixing plant filled. Quality - good.

Quarry - Mill rock - fair

Mass " - good.

Overburden - Bad - being shoveled into skips & wasted. Satisfactorily clean rock being sent to crushers.

Masonry Placing -

Proportions - good

Duration - good

Wetness - "

Consistence - Not objectionable

Mass rock - good.

Bonding - "

Placing - "

Groot washing - Progress.

AUG 23 1919

Night-

Entire crew put in quarry producing & delivering Mill rock for crushers which run 1/2 shift. Last half shift masonry being placed - No inspection.

Mill rock - fair.

AUG 23 1919

Excavation - None

Sand Washing & Hauling - Progress to meet masonry requirements.

Quality - good.

Quarry - Mill rock - fair.

Mass rock - good.

Overburden - Better. Satisfactorily. clean rock being sent to crushers.

Masonry Placing -

Proportions - good.

Duration - "

Latence - Not objectionable.

Wetness - OK.

Placing - Still separation in skips.

Grout Washing - Progress on Ind. Spillway & on U.S. & D.S. faces of Dam.

AUG 24 1919

AUG 24 1919

AUG 25 1919

AUG 25 1919

Excavation - None.

Sand Washing & Hauling - good progress
to keep bin at concrete mixing
plant filled. Quality - good.

Quarry - Mill rock - good.

Mass " - good.

Overburden - Not bad Satis-
factorily clean rock being sent
to crushers.

Masonry Placing -

Proportions - good.

Duration in Mixer - good.

Wetness - good.

Aggregate - Not objectionable.

Maw rock - good.

Placing - Some separation in
skips under mixer.

Bonding - good.

Grout Washing - Progress on Inp.
Spillway & US & DS faces of dam.

AUG 26 1919

Quarry-

Mill rock - fair.

Mass " - good.

Overburden - Not bad. Satisfactorily
clean rock being sent to crushers.

Masonry Placing -

Proportions - 2-3 cuft. excess
of $\frac{3}{4}$ " rock being used until
corrected.

Duration - All batches observed
being mixed well over minimum
requirement.

Wetness - Slightly too wet. Supt
instructed to use less water.

Laitence - Not objectionable.

Mass. Rock - good.

Placing - Some separation in
skips under mixer.

Bonding - good.

AUG 26 1919

AUG 27 1919

AUG 27 1919

AUG 28 1919

AUG 28 1919

The right page of the notebook features a grid of graph paper. A vertical red margin line is positioned on the left side of the grid. The grid consists of approximately 20 columns and 30 rows of small squares. There are some very faint, illegible markings or ghosting of text visible within the grid, particularly in the lower half of the page.

AUG 29 1919

Grouting completed in Independent Spillway about 9 A.M.

Crew 5 men cleaning up

Work started cleaning concrete

preparatory to placing Masonry in opening left in Right Abut. for Road way. forms started 8 A.M.

Henry K. began placing railing top downstream side gravity Sect. Right Abut.

Sand Hauling discontinued Sufficient sand now being stored in bin for completion of Work 8 A.M.

Walker and gang on Roadway approach to Right end of dam

Steel door put in place at Entrance to Inspection Gallery Left Abutment.

Quarry -

Mill Rock good

Mass " "

Overburden No waste - day shift

Masonry Placing

Batches observed mixed over minimum time required.

AUG 29 1919

Continual Separation of Coarse and fine Material in chute under Mixer

Wetness good

Mass Rock good

Laitence Not objectionable

Crusher shut down for 3 hours due to Babbit breaking out between Mantel + head on # 4.

AUG 30 1919

Misce. Operations

Henry + helper on Hand Rail
Gravity Section Right Abut also Stair way
Concrete Pouring began to fill
opening in Rt Abut left for Roadway
finished at noon. Poured parapet on 8/31

Rain began at 2-30 - quit about 3 PM

Quarry Mill Rock good

Mass Rock good.

Overburden - No waste satisfactorily
clean rock being sent to crushers.

Masonry placing

Duration all batches observed
mixed over minimum requirement
Placing Still separation in skips under
chute from Mixer of large + small
aggregate

Witness good.

Laitence Not objectionable

Bonding good.

GROUT washing continued on down stream
face

Night Crew completed lower portion

Mass Rock Recess

Steel door Rt Abut hung in place

AUG 30 1919

AUG 31 1919

Quarry - Mill Rock good.

Mass Rock good.

Overburden - No Waste - fairly
clean rock ^{being} sent to crusher.

1 hr. delay to ~~one~~ stiff leg
derrick acct burnt out cable

Concrete Placing

Parapet poured about 10 A.M. 3 skips

completes parapet +

Placing - Still separation of large
and small aggregate in skips under

Mixer chute

Wetness - good

Laitence Not Objectionable

Grout washing completed final
washing downstream face and

Piers over Spillway Section 9 AM.

Began final grout washing upstream
face overflow section

Henry + 1 helper on Rail Stairway
left Abutment.

~~Went~~ crew

AUG 31 1919

Sept 1

Aug 31

No work - Water wagon
on sprinkling

Dam Dedicated - 11-30

Large crowd attended

September 2, 1919

Carpenters began stripping
forms - 2 on Parapet - 2 on

Mass Rock - 9 8 AM - continued all day

John + Walker on Roadway Approach
Right Abutment all day

D.O. - Henry - helper - Winter - 3 laborers
began moving hoist for Mass Rock
track

Griffith left camp this A.M.

Progress on upstream face of dam O.S.

" Final Wash Parapet - Left Abutment
Parapet Right Abutment over Roadway.
1st coat

Mike and five laborers Progress on
cleaning + oiling of steel forms to
be returned to Blaw Firm Co.

Case - 3 lab - transporting lumber
from Spillway at Shovel to Storage
across dam

D.O. Robinson - Dismantled + stored at
Store house hoist used in operating
Mass Rock car. 7 AM to 9 AM

D.O. Robinson Dismantled + stored at
head tower guy Derrick used
in taking concrete from mixer to
pour Mass Rock Recess. 9 AM to 2-30

Sept 2.

Mast + boom #2 guy derrick
and all guy wires dismantled
and stored at road side at head
tower - Wait for #2 derrick remaining
~~to~~ in place at 3-30.

Final grout washing completed
on Parapet left Abutment

Progress on final washing of
upstream face.

Progress - Automatic Flashboard

Independent Spillway W.D. #71 - 1 Comp.

No progress on hand rail ~~no~~ material
only 4 bored Tees received today.

Work began getting up mixer used
in pouring concrete at in tunnel + tower

Sept 3

Mr. Savage here at noon. left at 2 PM
with one Guest Mr. —

Do. - Progress in setting up ^{and building plant forms} mixer +
^{previously} used in pouring Tunnel + tower

below head tower preparatory to
placing remaining concrete in dam
10 horsepower motor to furnish power ^{in place} for Mixer

Progress Stripping forms downstream
face gravity Section Right Abutment

Progress Cleaning + oiling steel
forms rented from Blaw-Ransome Co.

Positive automatic flashboard at
spillway completed

Progress in placing forms to receive
remaining concrete in dam.

Progress W.O.#15. stripping forms from
grooves Independent Spillway

Work began
~~Progress~~ cleaning + painting pipe hand
rail W.O.#19 Independent Spillway
+ Rail of Dam

4 Ymca Entertainers at dam

Sand Washer operated about 1 hour
to fill bin at ~~Pls~~ Washing
Plant.

September 4

Forms completed to receive
balance of concrete necessary
to complete dam - 10 AM

Stripping of forms completed
downstream face over Mass Rock Recess

Progress placing ^{pipe} hand rail on dam
Progress - cleaning + painting pipe
hand rail Independent Spillway W.O.#9

Progress Final finishing + grout washing
upstream face of dam

Progress in excavating for roadway
approach to dam Right Abutment

Progress in piling lumber along
roadway below Blacksmith shop

Progress Work began in P.M. painting
pipe hand rail on Dam W.O.#19

Concrete placing began about 11-30
100 Batches - 25 Bk delivered + placed
@ 2.0 = 50 c.y.s 2 sack cement to
batch 200 sas used

In A.M. Progress cleaning + oiling steel
forms - Mike + crew on concrete in P.M.

Sept 5

Progress on Concrete Placing
Completed 10-15 AM

$11\frac{3}{4}$ Buckets @ 2 = 23.50 c yds
4 batches or 1 Bucket Sand & Cement
to fill crack left at top of
Mass Rock Hole

Progress - Sand Haul as needed.

Progress Upstream finl grout washing
Downstream gravity section Right
Abut. 2 crews

Progress - Painting Hand rail Roadway
Left Abut. + top dam

Progress Placing pipe hand rail
top of overflow Section

Progress Cleaning steel forms
in P.M. Completed 4 P.M.

Progress Roadway Approach to
dam Right Abutment.

Sept 6

Progress Painting pipe hand rail
+ steel doors on dam.

Progress Painting pipe hand rail
Independent Spillway completed

Progress Placing pipe hand rail on dam.

Mike + 9 men - cleaning - bundling
+ storing for shipment - empty cement
sax 6 hours.

Progress - Storing steel forms along
road way below head tower completed
9-30.

Stripping forms completed
Progress storing form lumber.

Progress final finishing and grout
washing of down stream face
gravity section Right abutment
Roadway

Approach to End of dam right
abutment. completed excepting

107 cu yds to be excavated
when head tower is removed.

Forces released in Pm at
4 o'clock

Sept 7

Henry painting Rail on Dam.

4 men finishing

Final grout washing of dam completed

Van Layed off.

Sept 8.

Henry & Van Son in odd jobs
charges time to 70/100

Sept 9

Henry & Van painting pipe hand
rail on dam. wa. 19

Sept 10

Progress Placing hand paper
rail on dam.

No delving on fittings

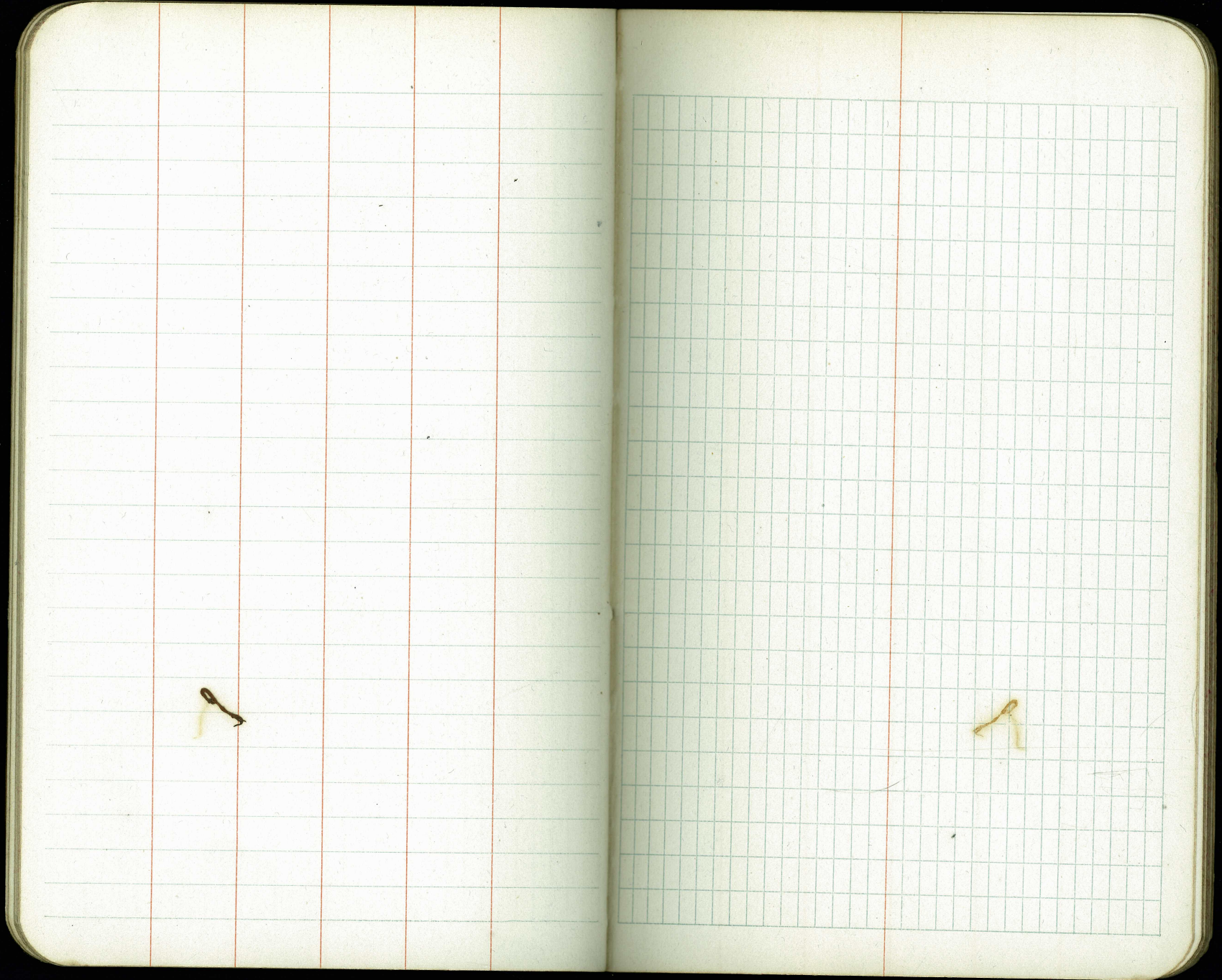
Sept 11

Progress Balance of fittings
arrived - some had to be rebored.
all day on placing paper rail

Sept 12

Progress on placing hand
pipe rail.

Progress on boring fittings.



9

9

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ 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
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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
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18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
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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 Jullen A. Hall, M. Am. Soc. C. E.