

343 (9)

ENGINEER'S & STREET DIARY

1976

R ENGINEERS  
DIARY

343 (37)

2<sup>nd</sup> N to 10<sup>th</sup> N

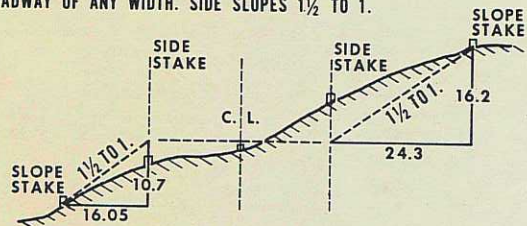
ENGINEER'S

STREET DIARY





**DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING**  
ROADWAY OF ANY WIDTH. SIDE SLOPES 1/2 TO 1.



Cut or Fill	Distance out from Side or Shoulder Stake.										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40

Property of Cache County  
Engineer  
 Address 179 North Main  
Logan Utah  
 Telephone 752 3327

This Book is manufactured of a High Grade 50% Rag Paper having a Water Resisting Surface, and is sewed with Nylon Water-proof Thread.



Supt. Chuck Larson

Property of  
Address  
Telephone

This book is manufactured of a high grade  
50% rag paper having a water resistant  
surface and is covered with light weight  
proof thread.



Oct 2, 1974 - Fair & warm  
meeting in my office with  
Shrader & Griffin of Highway Dept.  
and Larson and \_\_\_\_\_ of  
Reed Const. Co.  
Discussed

1. Testing requirements
2. Monthly payments
3. Testing put as soon as possible
4. Adjusted on fancy

Contractor began moving in equipment

GLR



Oct. 3, 1974 - cloudy

Site men picked up pit  
samples / told them rest.

Contractor murray in equipment  
some ditching to protect  
sub grade.

GJM

Oct 4, 1974 Light rain  
during night.

Contractor clearing and  
grubbing. Mistaken drill at  
180 ft. will have to pay for  
extra work Exc.

GJM

3

Oct. 7, 1974

Frost but warm day.  
Talked to Light Co. Foreman about poles  
on scabland's N.W. Said they had to  
do it to prevent guy poles.  
They will deal with scabland.

James wants parallel ditches at  
sta 200 +. which I agreed to.

Hauling a little bit borrow - 3 loads  
from pit, we will keep count.

GJM

Oct. 8, 1974 -

Frost but warm day.  
Compacting original ground down  
to 160 ft.

Electric Co. Finished up on  
poles and wire.

Jack roughly asked that we raise  
grade at 6th west to get out  
of water. I agreed.

GJM



Oct. 9, 1974 Rain last night  
but clear today.

Grade work.

Pipe arrived on job.

Laying pipe at 183±.

Setting up scales. I mounted  
ranging grade at root to  
Chuck. He said ok.

Uncovered spring in sewer grade  
at pipe 187±.

GJK

Oct. 10, 1974 Clear + Cool.

Decided to put short piece  
of perforated pipe to fill crevices  
of spring + fill trench with  
gravel. Pipe was staked 1' below  
in inlet.

Discussed extra work with Jack.

He said to do it with extra  
items on exchange basis.

Discussed later with Chuck and  
we agreed to tally up at Estimate  
Time Each Month and Bill us.

Finished pipe at 187 and dug

4

pit on at 169±. It is in water  
also. They are hauling in 2" rock from  
Johnsons for 1' below pipe and backfill  
half way up.

GJK

Oct. 11, 1974 Cold + Clear.

Laying pipes and excavating  
ditches. Contractor will work  
Monday. Layed pipe at 169 - it  
floated and had to cover before  
compacting. Removed big willow tree  
at 180±.

Got ok. for pit to be from slender  
Told Chuck. He says he will  
haul borrow in two weeks.

GJK



Oct. 14, 1974 Fair - frost at night  
Laying pipes at 6th North and  
Clearing at 156 E. Excavating  
ditch north from 180 E.  
Had to lower pipe 09 at 6th N  
due to staking error - 1 hr. backhoe  
2 men. I shooed for exact angles  
on 36" pipe. I gave them  
to him.

Checked with Rysthugi about  
raising sewer man-hole at 167 E.  
He said ok. to raise it with rings  
1. <sup>3</sup>

GJK

Oct 16 1974 Fair  
Cleared canal at 156.  
Set Bench marks on pum poles.  
Grading ditches & laying pipes.

GJK

Oct. 16 1974 Fair  
Jack complains about wet  
spots but turned out OK.  
Under drain too low at

180 E. Said ok to put in connection  
on end and leave under road.  
Stake tasker on job.  
Plan to start Gravel Monday.

GJK

Oct 17, 1974 Fair.  
Graded ditch each side of 6th in  
wet hole. Got backhoe fixed and  
laid pipe at 167 E. Grading  
Sub grade full length of job.  
Talked to Chuck about borrow for  
pipes. He said they expect it to  
pay extra for it in their bid price  
we are to pay as borrow.

GJK

Oct. 18 1974 Fair

Everyone went deer hunting

G. J. K.



Oct. 21, 1974 Rain + sleet.

No work -

Review of ~~Estimate~~ Estimate with client

36" aluminum delivered  
to Job -

G.L.M.

Oct 22 1974 Clearing

Grade for road

Cleared off and loaded brush  
of 157 ±.

Staked pit + road approach of  
10th north.

G.L.M.

Commission signed contract.  
+ returned. 10 days from  
to day start working days

G.L.M.

Oct 23, 1974 Light rain during  
night.

Decided too much mud would track  
on road to haul.

Rigging for 36" pipe.

Contract rings + cone delivered to  
Job. Otto Sharden called and  
said they were ok without  
a release.

G.L.M.



Oct 24 1974 Rain during  
night but clearing today.  
only work laying 36" pipe 153ft.  
Jones complained about his fence.  
I told Chuck.

GJK

Oct 25, 1974

Laying 36" pipe and waiting  
for grade to dry out.  
Thought grading.

GJK

Oct 28, 1974 - Light showers in P.M.

Grade ok - Hauled about 2200 tons  
between 10:00 & 4:00 p.m. along road.

GJK

Oct. 29 - Showers.

Hauled borras all day.  
May & Ned both sick.  
I weighed.  
Commissioners visited Sub.

GJK

10-30-74 - Rain  
Too wet to work.

10-31-74 - rain

Nov. 1 - rain  
Chuck called about dwarfism  
boxes. I told him all square.  
Scablar came in about his cow.  
& told Chuck also.

GJK



Nov 4-1974 Fair-cold.

Chuck called at 6:00 AM and  
said they would go to work.  
Grade was fairly dry.

Mix up on sewer manholes. More  
cast in place than anticipated.  
I told Chuck ok - to get ones  
for the higher ones and other  
rings for the others.

GJK

Nov. 5, 1974 Fair-cold

Hauling gravel 2nd lift between  
6th + 10th.

Chuck talked about filling at  
Scoble's property and eliminating  
rip rap. I said ok.

Also discussed Scoble's 100' pipe.  
I said put it in as planned and  
let him start it.

8

Nov. 6 1974 Fair + Cool

Hauling as usual. Met with Mrs  
Jenkins and discussed her property  
and where pipes are going. She  
evidently is having a problem with  
Raymond.

Loader broken down at Mont.

GJK

Nov. 7, 1974 Fair

Spreading South to 157 ± by  
pipe ring.

Earl worked while we staked  
other jobs.

Mr Jenkins called and wanted  
us to salvage pipe.

GJK



Nov. 8, 1974. Fair.

Hauling between Utah + Sta 157.  
Laying 30" + 36" pipe.  
Loader broke down at pit.  
Discussed washed material  
on scablands properly with  
Chuck. He says most of it  
was from Utah so would  
not expect extra pay.

GJK

Nov 11, 1974 Fair.

Hauling Gravel to south  
end. 36" pipe was hooked  
up Friday.  
Fence Co. on job, but not  
working.

GJK

9

Nov. 12 1974 Fair

Hauling Gravel + loading.  
Got hard road to 2nd S.  
Called Otto and asked for  
testing.  
Keeb got next job

Nov. 13 - 1974 Fair

I went to Salt Lake for Env. Conf.  
and was not on job.  
Hauled as usual, Jonas concerned  
about fence.

GJK

Nov 14 1974 Fair.

Fence men working on fence +  
scabland, Jonas was mad because  
he didn't get gates; I couldn't get  
hold of Chuck so, told fence crew  
to build as planned.  
Raining as usual.

GJK



Nov. 15 - 1974 Fair  
Hauling as usual. Grabs  
down about 3:30 PM.  
I told Chuck about fence  
and asked for all 16' gates  
if possible.  
GJM

Nov. 18, 1974 - Rain  
Hauled 1/2 day. Out for  
meeting. Had budget  
review.  
ok. from Otto Shaden to  
cancel other job and hold  
pre-construction answers.  
GJM

Nov. 19, 1974 - to meet to build  
but clearing  
5-10' fence gates already installed  
But Chuck said the rest will be  
16'. Will cost us \$20 per pole  
to chop gates. I said ok.  
GJM

Nov 20, 1974 Fair. 10  
Hauling with big loader, almost  
up to grade. Fence gang working  
also working on sewer manholes.  
Chuck says he plans to make  
his own base material on the  
pit.  
Recomputing new job 343(4)  
We changed pipe for Gomer at  
the first 50'. He gave permission  
to run drain pipe on his property  
if we need to.  
GJM

Nov. 21, 1974 Fair  
Just about finished borrow up to  
Grade. Fence people working.  
John Benders asked about his pipe  
across the road at 170'. We  
had unhooked it. I talked to Chuck  
and he said he would order it.  
GJM



Nov. 22, 1974 Rain.

No work.

Called electric Co. on job  
in front of Gasman's. They  
said they would come out.

GJM

Nov. 25, 1974 Fair

All trucks hauling to other  
job.

Blade shying and fence crew  
working.

I rounded check that we  
had no clearance in front.

GJM

Nov. 26, 1974 Fair.

Shaping gravel.

Start building box for Bob's  
box.

GJM

Nov. 27, 1974

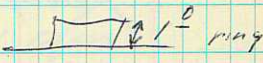
Cloudy Cold

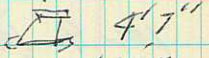
Buy staking &  
working on Culvert form.


GJM

Nov. 28 - Holiday

Nov. 29 - Cold clear  
placing pipe at 224±  
and pouring concrete around  
sewer manhole -

30'± North of 6 st.  10' ring  
and concrete rim.

Manhole - 180±  4'7" ring  
1 ring  
1 cone

170±  3' cone

160 - 3'3" cone  
Moving steel from hole at 215 -



Dec 2, 1974 Clear + Cold.  
Changed steel in box  
Scrapped said 3rd gate not  
needed.  
Mail + Preston staking  
150 to 164.

GJK

Dec 3, 1974 Cold + Snow  
Boys setting grade stakes for  
6th water.  
Found box on rubble.

GJK

Dec 4 1974 warm - showers.  
Setting Grade stakes.

GJK

Dec 5, 1974 Rain showers.

Hauling from 185 south to  
bring up to grade.  
Setting pipes but pushing levels  
down.

GJK

Dec 6, 1974 Fair cold.  
Hauling to bring up to grade, southeast.  
Kids filling manholes and placing  
odd records of pipes.

GJK

Dec 9, 1974. Cold + clear.  
2" of snow Friday night.  
Hauling on North mat.  
Laying side drains.

GJK

Dec 10, 1974 cold + fog  
Blowing and chipping.  
Plan to close down.

GJK



Dec 11, 1974 Cloudy + Snow

blasting sub grade and getting  
a few low places.

Shot down for weather.

Frost about 8" thick.

reminded Chuck of drainage at  
10th. to be fixed.

LJM

Thurs. Apr. 3, 1975

13

F. / acct

Sta. 169 ± 70

Lower 18" x 78' C. A. Pipe 1 ft.

Bk-hoe 6 hrs with operator

Laborer 6 "

Tamper 2 1/2 "

1 hr. Apr 2

9 AM to 2:30 PM Apr 3



Thurs. Apr 10, 1975 Fair - Windy PM  
Placed 22" x 13" x 120' Arch in Irrigation  
Ditch Sta 156441

Bk loc & Apr  
1- Laborer



Apr 11, 1975  
Sta 163+10

Fair

Placed:

22" x 16' x 100' Arch

Sta 186+35

Placing 18" x 102 CMP

15



Apr. 14, 1975 Cloudy - ~~Fair~~ Showers PM

Completed 18" x 102' CMP at  
Sta 186+30

Placed 12" x 18' CMP in East  
Side Borrow Ditch 186+30

200+55

Placed 18" x 100' CMP Irrigation  
Rt. to Lt.



Tues. Apr. 15, 1975 Cloudy Wind

Sta. 203+27

Installed 18" x 70' Alum. Pipe



Apr 18, 1975 Fair Shovel PM  
Placed 12" x 18' C. Alum Pipe in  
Dr. Way Rt at Sta 197+00

18



Apr. 21, 1975 Fair

Placed 12" x 20' CA Pipe 197+30 Lt.  
Dr. Way Lt.

Placed C.A. Pipe  
193+65 12" x 20' Under Irrig Pipe  
Rt.

Placed C.A. Pipe  
193+70 & 12" x 20' Under Dr. Way  
& Irrig. Pipe on Lt Side.

Placed  
178+00 & 12" x 18' CA Pipe  
Driveway Lt.

Placed  
160+00 & 12" x 22' CA Pipe  
Driveway Lt.

Apr. 22-23-24

19

No work on this project



Apr 25, 1975

Rain & Snow

Motor Patrol

Lab.

Foremen

Finishing to Grade Str.

Rained out at 10:30 AM



Apr. 28, 1975 Cloudy - Fair

Patrol & Scraper Finishing  
Sub-grade ~~to~~ ~~to~~

Scraper hauling gravel from 343(4)  
to 343(3)

Apr. 29, 1975 Cloudy - Fair

21

Patrol & Scraper Finishing Grade

Scraper Hauling gravel from 343(4)  
to 343(3)



April 30, 1975 Fair

No work on this Project

May 7, 1975 Fair

22

Repaired arch Pipe at Sta. 156+



May 6, 1975 Cloudy Fair

Bk-Hoe Placed 12"x16" C APIp. Rt.  
Sta 163±12

Excavating Side Dr. Ditch Rt  
163±20 to 166±

5-7-75

Rain

23

Bk-hoe Excavating Side Dr Ditch  
on Rt 163± to sta. 166±



5-8-75 Rain

ABC Forming Dev. H. of Sta

156±80

Poured Concrete 4:30 PM

1

5-9-75 Fair

24

ABC.

150+

Formed & Poured Cleanout

Box on 36" Pipe

Patrols Cutting Slopes & Finishing  
Sub-Grade

Bk. hoe grading Side Drains



5-12-75 Cloudy - Fair  
Patrols Finishing Slopes 2<sup>nd</sup> No.  
to 6<sup>th</sup> No

5-13-75 Fair Warm

25

Patrols & Loader Finishing Slopes  
& Sub-grade



5-14-75 Fair

Back filling Cleanout Box  
Near 2<sup>nd</sup> No.

Finishing Sub-Grade So. end.

5-15-75 Fair

26

Watering Sub-Grade



5-22-75 Showers in AM

Started placing Base Gravel  
at Noon at 10<sup>th</sup> North.

5-23-75 Cloudy-Showers 27

Placing Crushed Gravel Base  
10<sup>th</sup> No. to 6<sup>th</sup> No.



5-27-75

Fair - Light showers  
in P.M.

Finished 1st lift to 2nd with  
shopping + watering.  
ordered sawed rings.

5-28-75

Fair, windy 28

Hauling base 10th to 6th -  
Completed except for drives.  
Started 6th to 2nd.

Using two winches today  
instead of 3.



5-29-75 Fair and warm

Finished base to 2nd North  
placing some on Drives  
and laying down.

5-30-75 Fair + warm

29

1 truck heading base to drives  
and patch up.  
Finishing + polishing up.  
Asked Commissioners + Otto to  
review next week.



6-2-75 Cloudy - warm

Grading and shaping from  
2nd to 10th.

Talked to Chuck about Gates.

Fono crew showed up but  
didn't work.

6-3-75 warm Intermittent<sup>30</sup>  
showers.

Grading driveway and  
shaping ditches.

Commission reviewed the  
job.



6-4-75 - Clear and warm

Final grading and rolling  
driveways.

placed 9 cu. yd. of rip Rap  
out end of 36" pipe.

6-5-75 Clear + warm

31

Back hoe smoothing ditches ect.  
blade left job.

Staked delimitors

Truck rolling drivas.

State taking samples.