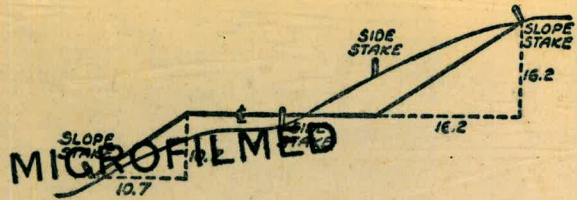


740

W.D. # 24-6-9



JAN 1 1900

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

	0	1	2	3	4	5	6	7	8	9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

343567
343581
986
343581
343581
986
343581

986

98
29.58
119.58

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1.

INDEXED CON 1-30-51

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CONTROL MONUMENT'S.

2" C.I. PIPE & TARGET N. SIDE OF MONUMENT
APPROX 5' FT.
CONC. MON.



Handwritten scribble

CONC. MON. N 238.57, 1 FT. BELOW BERTY TOP.



N-S

2" X 2" REDWOOD HUB & T. LINE ONLY
ON HILL IN FRONT ENG'S HOUSE.

IRON PIPE, WOOD PLUG & TACK,
LINE ONLY - EDGE OF ROAD TO
MR. BROWN'S HOUSE.

CONC. MON. E 5+92.06
(STA. QUESTIONABLE)

CONC. MON. E 4+19.85 P

E-W
AXIS

CONC. MON. W 3+85.78

DESTROYED, MARCH 1950, BY
GRADER.

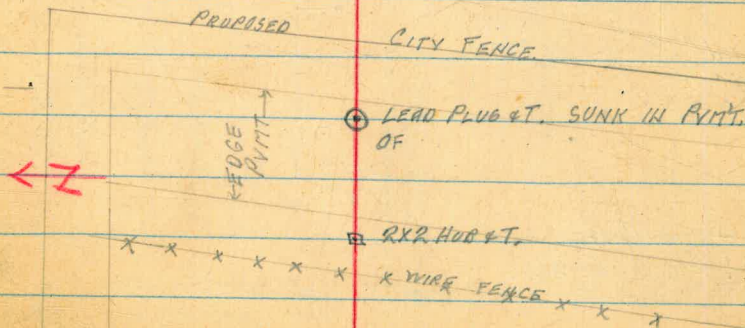
E-W
AXIS

P.

CONC. MON. S-SIDE LANE MONUMENT 12 V.D.



L.H. 12 V.D.



JULY 21, 1949.

ELEVATIONS OF FIRE PLUG BASES:

POSITION OF HYD.	BASE GRADE:	PIPE INV. GRADE:
#1. N125 W281	538.15	534.00
#2. S85.5 W260	535.00	532.00
#3. S92.67 W103	538.39	534.70
#4. S181 E218.58	529.50	525.40
#5. S185 E590	528.90	526.00
#6. N93 E590	542.50	539.30
#7. N148.5 E144.2	546.00	543.00

SET BLUE TOPS TO BASE GRADE:

JUNE 14, '49.

LEONARD
PAYNE
CARYER

5.

8" HYDRANT SUPPLY, CUT STAKES. NORTH PORTION.

C.M. + S.36	550.02	546.66	SALT STG. TANK.
STATION.	INV. GRADE	-	HURFLEV. CUT.
N142 W250.7	536.00	-10.96	539.07 3.07
" W200	538.10	-9.03	540.99 2.90
" W150	540.18	-6.89	543.57 2.95
" W100	542.15	-5.11	545.04 2.76
" W74	543.0	-4.67	545.45 2.35
" W50	"	-4.59	545.58 2.58
" N-S AXIS	"	-4.55	545.57 2.57
" E50	"	-4.40	545.72 2.72
" E88.8	"	-4.50	545.62 2.62
" E134.0	"	-4.65	545.47 2.47
" E144.2 FIRE HYD.	"	-4.67	545.45 2.45
N113 E134.0	"	-4.55	545.57 2.57
" E167	"	-4.46	545.67 2.67
" E200	"	-4.59	545.58 2.58
" E250	"	-4.58	545.74 2.74
" E300	"	-4.55	545.57 2.57

	GRADE		HOB. ELEV.	CUT.
H. d.	550. ⁰² 12			
N113 E 350	543.0	-4.58	545. ⁴⁹ 59	2. ⁴⁹ 59
" E 382	"	-4.80	545. ²² 82	2. ²² 82
N181 E 382	"	-4.47	545. ⁵⁵ 65	2. ⁵⁵ 65
N181 E 412.6	"	-4.60	545. ⁴² 52	2. ⁴² 52
T.P. CORNER TRUCK SCALE		-3.97	546. ⁰⁵ 15	
+0.24	546. ²⁹ 39			
N93 E 382	543.0	-0.91	545. ³⁸ 48	2. ³⁸ 48
" E 400	16+61	-0.45	545. ³⁴ 44	2. ³⁴ 44
" E 450	16+11	-0.51	545. ⁷⁸ 88	2. ⁷⁸ 88
" E 500	15+61	-0.47	545. ⁸² 92	2. ⁸² 92
" E 550	15+11	-0.59	545. ⁷⁰ 80	2. ⁷⁰ 80
" E 568	"	-0.86	546. ⁴³ 53	2. ⁴³ 53
" E 586 "I"		-3.82	542. ⁴⁷ 57	
CHECK R.M. 5488E		-7.84	539. ¹⁵ 25	RECORD 538.47

PROFILE OF 8" HYDRANT SUPPLY LINE AT TRUCK SCALES.

R.M.	+7.45	545.92	-	538.47
N93 E 550	15+11	-0.2	545.7	
" E 568	14+93	-0.4	545.5	
" E 580	14+81	-3.5	542.6	
" E 586 (Cross)	14+75	-3.5	542.4	
" E 590 FIRE PUG		-3.6	542.3	
H60 E 586	14+22	-4.8	541.1	
O-O E 586 AXIS	13+12	-7.0	538.9	
CHECK R.M.		-7.45	538.47	

4" LINE TO SALT STG. TANK:

TOP SALT STG. BASIN	546.67		
N142.0 E 88.8'	543.08		C 3.6
N169.0 E 88.8'	543.44		C 3.25
N196.0 E 88.8'	543.80		C 2.87
N196.0 E 111.0	544.07		C 2.60
N196.0 E 132.67	544.33		C 2.33

JUNE 15, '49. LEONARD
PAYNE
CARRER.

7.

PROFILE OF SOUTH PORTION OF 8" HYDRANT SUPPLY LINE.

Bend down from line out of tank. On cement support.

45° Bend in alignment.

Fire Plug outlet.

Top of roadway.

Fire Plug location.

R.M.	+6.86	543.25		536.39	ON CHAN.
N160.5	WR59.5	0+00	-5.70	537.52	ON SUPPORT
N143	WR77	0+24.75	-6.3	536.9	
N125	"	0+43	-6.1	537.1	
N122	"	0+46	-6.1	537.1	
N117	"	0+51	-5.3	537.9	
N100	"	0+69	-5.4	537.8	
N69	"	0+99	-6.1	537.1	
N50	"	1+18	-6.0	537.2	
0-0	"	1+68	-6.2	537.0	
S50	"	2+18	-7.7	535.5	
S85.5	"	2+53.25	-8.8	534.4	
"	WR260		-8.4	534.8	
S100	WR277	2+68	-8.6	534.6	
S117	"	2+85	-8.5	534.7	
CHECK R.M.			-8.87	534.38=	
S117	WR250	3+12	-8.0	535.2	
"	WR200	3+62	-7.3	535.9	
"	WR150	4+12	-6.4	536.8	

90° "T"
Pile Plug location

90° Bend.

Tops of fill for roadway.

Bottom of slope on east edge roadway fill.

		543.25		
S117	W105	A+59	-5.6	537.6
S96	"		-5.7	" .5
S145	"	A+87	-5.5	" .7
S173	"	5+15	-5.4	" .8
S173	W86	5+32	-5.6	" .6
"	W65	5+52	-12.0	531.2
"	W50	5+67	-12.6	530.6
T.P.	Rock.		-10.18	533.07

+1.15. 534.22

90° Bend.

Top M.H. N-S Axis, S179, ON JUNCTION BOX.

S173	W8.0	6+09	-3.3	530.9
S185	W8.0	6+21	-4.1	530.1
CHECK R.I.		E96+29.75B = 6+00 A	-3.85	530.0 530.37 = 530.39
S185	E50	6+50	-4.7	529.5
"	E100	7+00	-5.0	" .2
"	E150	7+50	-5.0	" .2
"	E200	8+00	-5.8	528.9
"	E250	8+50	-5.8	" .9
"	E300	9+00	-5.8	" .9

Begin wooden platform on line.
 End of platform on line
 90° Bend.

Top of bank.

On top of dirt roadway, S. edge

" " " " " N. Edge

Butter at edge of roadway.

		534.22		
S185	E350	9+50	-4.8	529.4
"	E400	10+00	-4.9	" .3
"	E450	10+50	-5.0	" .2
"	E500	11+00	-5.4	528.8
"	E545	11+45	-4.5	529.7
"	E578	11+75	-5.4	528.8
"	E586	11+86	-5.0	529.2
T.P.	Rock		-5.25	528.97
	+12.97	541.94		
S150	E586	12+21	-11.0	530.9
S100	"	12+71	-8.9	533.0
S50	"	13+21	-6.1	535.8
S47	"	13+25	-5.9	536.0
S48	"	13+29	-4.9	537.0
S12	"	13+60	-4.5	" .4
S10	"	13+62	-4.9	" .0
S2	"	13+70	-3.9	538.6
Comp. Min.	E583			
CHECK	R.M.		-3.49	538.45 = 538.47

SEE ALSO PAGE 6.

JUNES, '49.

LEONARD
PAYNE
CARVER.

10.

CUT STAKES, 8" HYDRANT		SUPPLY LINE, S. PORTION.		
				RIM H.H. SILL W305
R.M. + 6.15	540.55		534.40	
	GRADE			
N160.5 W259.5	533.9	-3.0	537.5	C 3.6
N143 W277	534.0	-3.4	537.1	C 3.1
	FIRE HYD.			
N125 W277	534.1	-3.0	537.5	C 3.4
N100 "	534.0	-2.7	537.8	C 3.8
N50 "	533.9	-3.2	537.3	C 3.4
N00 "	533.8	-3.5	537.0	C 3.2
550 "	532.4	-5.0	535.5	C 3.1
585.5 "	531.9	-6.0	534.5	C 2.6
585.5 W260 F.P.	532.0	-5.5	535.0	C 3.0
5117 W277	531.9	-6.0	534.5	C 2.6
" W250	532.2	-5.3	535.2	C 3.0
" W200	533.1	-4.6	535.9	C 2.8
" W150	534.0	-3.6	536.9	C 2.9
" W103	534.6	-2.9	537.6	C 3.0
395 W103 F.P.	534.7	-2.3	538.2	C 3.5
5145 "	534.4	-2.7	537.8	C 3.4
5173 "	534.2	-2.5	538.0	C 3.8
" W70.0	527.7	-8.2	532.3	C 4.6
T.P. + 1.66	534.01	-8.20	532.35	on Hub.

8" HYDRANT SUPPLY, CONT'D.

H.S.	534.01			
S173 W50	527.7	-3.0	531.0	C 3.3
" W8.0 ² 9.7	527.6	-3.4	530.6	C 3.1
S125 W8.0 ² 9.7	529.67	-1.9	532.1	C 2.4
S185 W8.0	527.1	-5.8	530.2	C 3.1
" E50	526.7	-4.4	529.6	C 2.9
" E100	526.3	-4.6	529.4	C 3.1
" E150	525.9	-4.6	529.4	C 3.5
" E200	525.5	-4.8	529.2	C 3.7
" E218	525.4	-4.8	529.2	C 3.8
" E250	525.5	-5.0	529.0	C 3.5
" E300	525.5	-5.1	528.9	C 3.4
" E350	525.6	-4.4	529.6	C 4.0
" E400	525.6	-4.3	529.7	C 4.1
" E450	525.7	-4.5	529.5	C 3.8
" E500	525.8	-5.0	529.0	C 3.2
" E550	525.9	-5.1	528.9	C 3.0
" E586	526.0	-5.1	528.9	C 2.9
T.P. +13.01	541.92	-5.10	528.91	ON H20

9" HYDRANT SUPPLY, CONT'D.

	N.S.	541.92			
E586	S150	527.72	-11.0	530.9	C 3.2
"	S100	530.1	-8.7	539.2	C 3.1
"	S50	532.5	-5.8	536.1	C 3.6
	CHECK R.M.		-3.44	538.48 =	538.47
	+10.94	549.41			
E586	AXIS	534.9	-10.62	538.8	C 3.9
"	N50	537.3	-8.30	541.1	C 3.8
"	N93	539.3	-7.12	542.3	C 3.0
E568	"	540.2	-3.94	545.5	C 5.3
⁵⁴⁸ E550	"	541.2	-3.71	545.7	C 4.5
E530	"	542.0	-3.54	545.87	C 3.9
	CHECK R.M.		-10.94	538.47	

NOTE: THE GRADE FOR THE SOUTH PORTION OF
THE 9" HYDRANT SUPPLY LINE WAS DETERMINED
BY MR. NELSON, IN THE CITY FIELD OFFICE.

JUNE 27, 1949.

LEONARD
PAYNE
CARVER.

6" SANITARY SEWER #125.

R.M. +2.85	549.51		546.66	SALT TANK
N165 W85 M.H. FLOOR	530.62		531.29	
" " RISER	538.22	-4.09	545.42	C 7.20
N205 W 75	538.40	-4.31	545.20	C 6.80
" W 25	538.65	-4.21	545.30	C 6.65
" E 25	538.90	-4.27	545.24	C 6.34
" E 75	539.15	-4.15	545.36	C 6.21
" E 125	539.40	-4.21	545.30	C 5.90
" E 175	539.65	-4.22	545.29	C 5.64
" E 225	539.90	-4.24	545.27	C 5.37
" E 275	540.15	-4.21	545.30	C 5.15
" E 325	540.40	-4.30	545.21	C 4.81
" E 375 T.P.	540.65	-4.86	544.65	C 4.00
N.d. +5.09	549.74			
N205, E 425	540.90	-4.23	545.51	C 4.61
" E 475	541.15	-4.48	545.31	C 4.16
" E 525	541.40	-4.97	544.77	C 3.37
" E 575 M.H.	541.65	-4.62	545.12	C 3.47

CHECK R.M. -11.27 538.47 = 538.47

NOTE: LINE MOVED N 30' TO MISS TREES, E 375 AND E 400

JUNE 28, '49.

LEONARD
PAYNE
CARVER

13.

6" SANITARY SEWER #125. CUT STAKES FOR

R.M. +3.01	549.67		546.66	SALT TANK.
FLOOR IN M.H. N165 W85 RISER	531.30		531.29	
" " PIPE	538.22	-18.38	545.42	C 7.20
N204 W 75	538.40	-4.25	545.22	C 6.82
" W 25	538.65	-4.27	545.40	C 6.75
" E 25	538.90	-4.35	545.24	C 6.42
" E 75	539.15	-4.26	545.21	C 6.26
" E 125	539.40	-4.28	545.39	C 5.99
" E 175	539.65	-4.26	545.41	C 5.76
" E 225	539.90	-4.28	545.39	C 5.49
" E 275	540.16	-4.32	545.35	C 5.20
" E 325	540.40	-4.44	545.23	C 4.95
T.P. E 375 HUB	540.65	-4.96	544.21	C 4.06
N.d. +5.04	549.75			
N204 E 425	540.90	-4.23	545.60	C 4.70
" E 475	541.15	-4.51	545.24	C 4.09
" E 525	541.40	-4.48	544.95	C 3.45
" E 575 M.H.	541.65	-4.50	545.25	C 3.60

CHECK R.M. -11.28 538.47 = 538.47

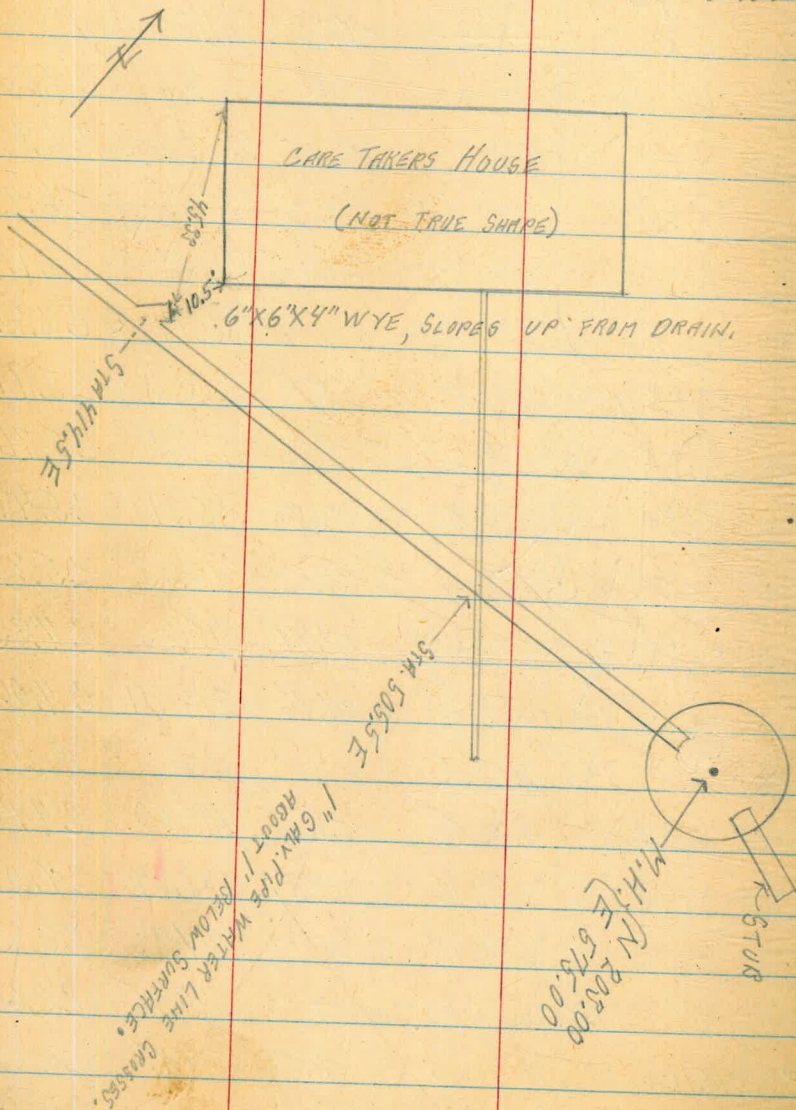
SEE OPP. PAGE FOR FINAL LOCATION.

Handwritten in red:
N 30' moved to N 20'

JULY 18, 1949.

"WYE" IN 6" SANITARY SEWER:

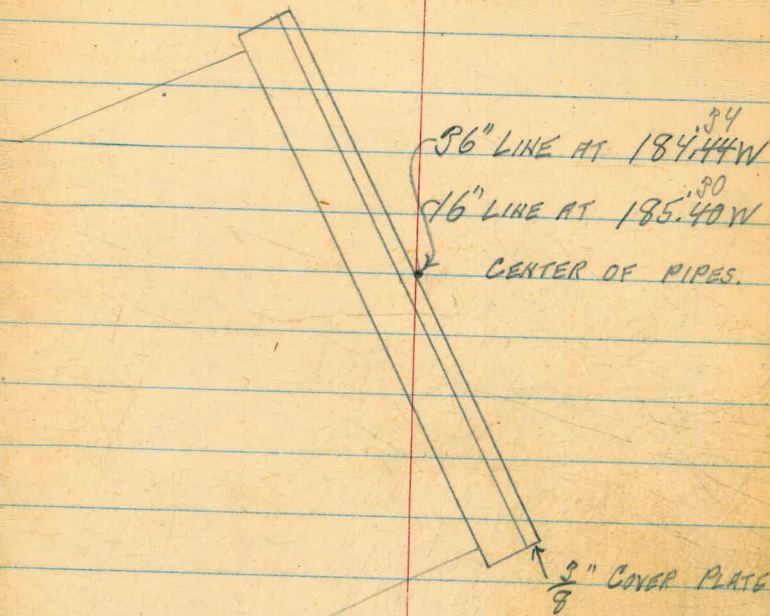
NOTE: SEE PAGE 47 FOR HOOK-UP TO KEEPERS HOUSE.



JULY 11, 1949 LEONARD, PAYNE
BARBER, CARYER.

14.

FILTER PIPING, WEST END OF FILTER GALLERY.
LOCATION OF ENDS OF EXISTING 16" AND 36" PIPES.



ELEV. TO CENTER:

36" LINE: 530.79

16" LINE: 530.87

192.00 = 191.90

JUN 15, '99.

LEONARD
PAYNE
CARVER

15.

6" x 4" UNDERDRAIN IN SETTLING BASIN. CUT STAKES:

LOCATION	GRADE	-	HUR. ELEV.	CUT.
B. M. 1915	539.48 H.d.		530.33	RIM 5178± M.H. E 60
4" OPEN-JOINT DRAIN TILE				
<u>N 63.08</u>				
E 60.08	532.92	-5.09	534.39	C 1.47
E 101.33	533.12	-4.95	34.53	1.41
E 142.58	533.33	-5.25	34.23	0.90
E 145.58	533.33	-5.20	34.28	0.95
E 175.83	533.18	-4.99	34.49	1.31
E 206.08	533.03	-4.89	34.59	1.56
E 231.08	533.03	-5.02	34.46	1.43
E 261.33	533.18	-5.05	34.43	1.25
E 291.58	533.33	-4.91	34.57	1.24
E 294.58	533.33	-4.94	34.54	1.21
E 335.83	533.12	-5.00	34.48	1.36
E 377.08	532.92	-4.96	34.52	1.60
<u>N 38.8</u>				
E 60.08	532.79	-4.96	34.52	1.73
E 206.08	532.90	-4.87	34.61	1.71
E 231.08	532.90	-4.85	34.63	1.73
E 377.08	532.79	OMITTED.		

4" OPEN JOINT DRAIN TILE, CONT'D.

LOCATION	GRADE		HUR ELEV.	CUT.
H.d.:	539.48			
N14.46 E 60.08	532.92	-4.76	534.73	0.81
E 101.33	533.12	-4.91	34.57	1.85
E 142.58	533.33	-4.95	34.53	1.20
E 145.58	533.33	-5.05	34.43	1.10
E 175.83	533.18	-4.81	34.67	1.49
E 206.08	533.03	-4.95	34.53	1.50
E 231.08	533.03	-4.89	34.59	1.56
E 261.33	533.18	-4.90	34.58	1.40
E 291.58	533.33	-4.96	34.52	1.19
E 294.58	533.33	-5.01	34.47	1.14
E 335.83	533.12	-4.89	34.59	1.47
E 377.08	532.92	-4.89	34.59	1.67
50.04' E 60.08	532.92	-4.80	34.68	1.76
E 101.33	533.12	-4.86	34.62	1.50
E 142.58	533.33	-4.85	34.63	1.30
E 145.58	533.33	-4.84	34.64	1.31
E 175.83	533.18	-4.83	34.65	1.47
E 206.08	533.03	-4.84	34.64	1.61

LOCATION	GRADE		HUR ELEV.	CUT.
H.d.:	539.48			
50.04' E 231.08	533.03	-4.83	534.65	0.62
E 261.33	533.18	-4.85	34.53	1.35
E 291.58	533.33	-4.92	34.56	1.23
E 294.58	533.33	-4.95	34.53	1.20
E 335.83	533.12	-4.96	34.52	1.40
E 377.08	532.92	-4.99	34.49	1.57

6" OPEN-JOINT DRAIN TILE:

E 60.08 N14.46	532.67	-4.75	534.73	2.06
50.04'	532.60	-4.80	34.68	2.08
S 35.0	532.43	-4.65	34.83	2.40
S 70.0	532.26	-4.72	34.76	2.50
S 105.0	532.09	-4.75	34.73	2.64
S 139.17	531.91	-7.34	532.14	0.23
"	526.12	"	32.14	6.02
S 172 ⁺	525.93	-9.50	529.98	4.05
E 206.08 N14.46	532.78	-4.95	534.53	1.75
50.04	532.71	-4.84	34.64	1.93
S 35.0	532.54	-4.91	34.57	2.03

6" OPEN-JOINT DRAIN TILE, CONT'D.

LOCATION:	GRADE:		HIRELEV.	CUT.
N.S.:	539.48			
E206.08 S 70.0	532.37	-4.99	534.49	2.12
5105.0	532.20	-4.94	34.54	2.34
5139.17	532.02	-6.81	532.67	0.65
"	525.45	"	"	7.22
5172.0±	525.26	10.19	529.30	4.04
E231.08 N 14.46'	532.78	-4.89	534.59	1.81
5 0.04'	532.71	-4.83	34.65	1.94
535.0	532.54	-4.84	34.64	2.10
570.0	532.37	-4.87	34.61	2.24
5105.0	532.20	-4.94	34.54	2.34
5139.17	532.02	-6.87	532.61	0.59
"	525.45	"	"	7.16
5172.0±	525.26	-10.10	529.38	4.12
E377.08 N 14.46'	532.67	-4.89	534.59	1.92
5 0.04'	532.60	-4.91	34.57	1.97
535.0	532.43	-4.90	34.58	2.15
570.0	532.26	-4.88	34.60	2.34
5105.0	532.09	-4.97	34.51	2.42

LOCATION:	GRADE:		HIRELEV.	CUT.
N.S.	539.48			
E377.08 S 139.17	531.91	-6.75	532.73	0.82
"	526.12	-6.75	32.75	6.61
5172.0	525.93	-9.35	530.13	4.20
CHECK R.M.		-9.15	530.33	RM.M.H.

July 5th, 49

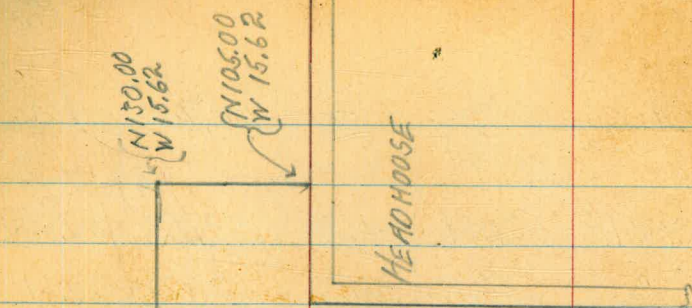
LEONARD
BAKER - K.
PAYNE - H.C.
CARVER - R.C.

18.

6" GENERAL SERVICE WATERLINE:

LOCATION:	Inv. GRADE:		HUR ELEV.	CUT.
ON DAM R.M. CITY DAT.	+9.43	545.82	536.39	
N 105.0 W 15.62	543.17	-0.35	545.47	C-2.30
N 130.00 W 50	543.17	-0.39	545.43	C-2:26
" W 74	543.17	-0.37	545.45	C-2.28
W 100	542.32	-0.94	544.88	C-2.56
W 150	540.35	-2.62	543.20	C-2.85
W 200	538.27	-4.95	540.87	C-2.60
W 250	536.17	-6.59	539.23	C-3.06
W 267.33	536.17	-8.07	537.75	C-1.58
INV. GRADE OF PIPE AT VENTURI BOX		-10.98	534.94	
CHECK B.M.		-9.44	536.39	

NOTE: PIPE FOR 4" LINE TO EAST LAID IN SAME DITCH
WITH 8" HYDRANT SUPPLY LINE.



HEAD HOUSE

DEF. \angle 11° 28'

6" WATER SERVICE.

N 130.00
W 15.62

N 105.00
W 15.62

(N 130.00
W 50.00)

(N 130.00
W 267.33)

Δ 16° 49' DEF.

36.00

84.00'

VENTURI
METER

July 29, 1949.

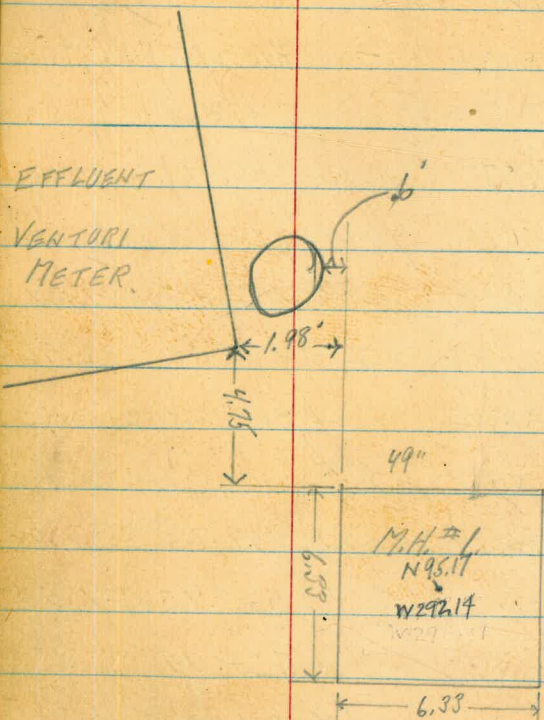
NOTE: BEND CHANGED TO W 250.00 TO AVOID FIRE
HYDRANT AT W 125, W 88. LINE WILL PASS SOUTH OF
HYDRANT.

Leonard.

SECTION 1 - 200 FT. X 200 FT.

JULY 25, 1949.

LEONARD
BAKER
RYNE
CARVER



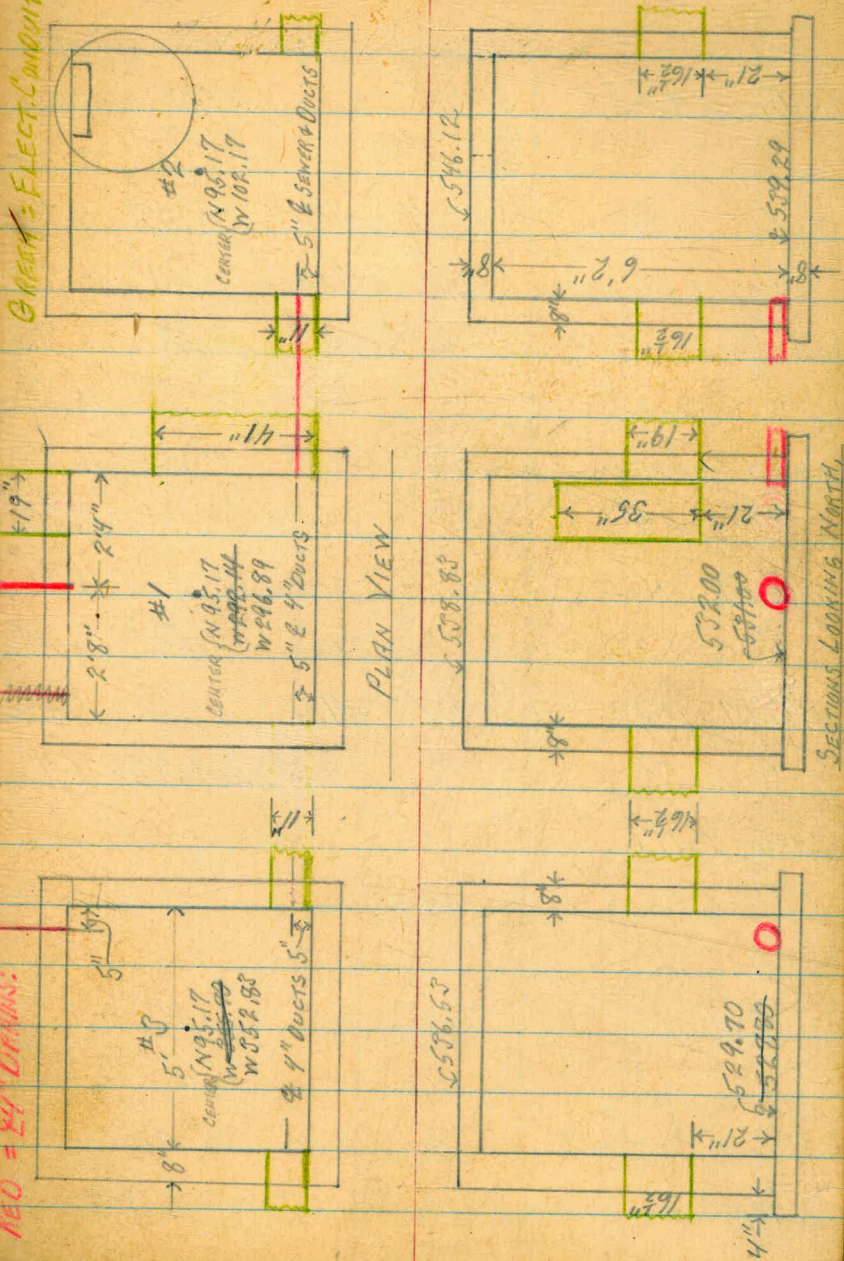
TIES TO METER BOX AND LAMP HOLE BEFORE
RELOCATING ELECT. M.H. #1.

NOTE: ELECT. M.H. #1 MOVED 4.75' WEST TO
CENTER AT N 95.17 W 296.89, IN ORDER TO
KEEP M.H. OUT OF FUTURE ROADWAY.

NOTE: E. EDGE POWER POLE # 297.146 IS AT W 360.12
AT BASE, BUT LEANS WEST.

JULY 8, 1949. LEONARD. 19.

ELECT. M.H.'S, OPENINGS.



JUNE 21, 1949

LEONARD
FRYHE
CARRIER

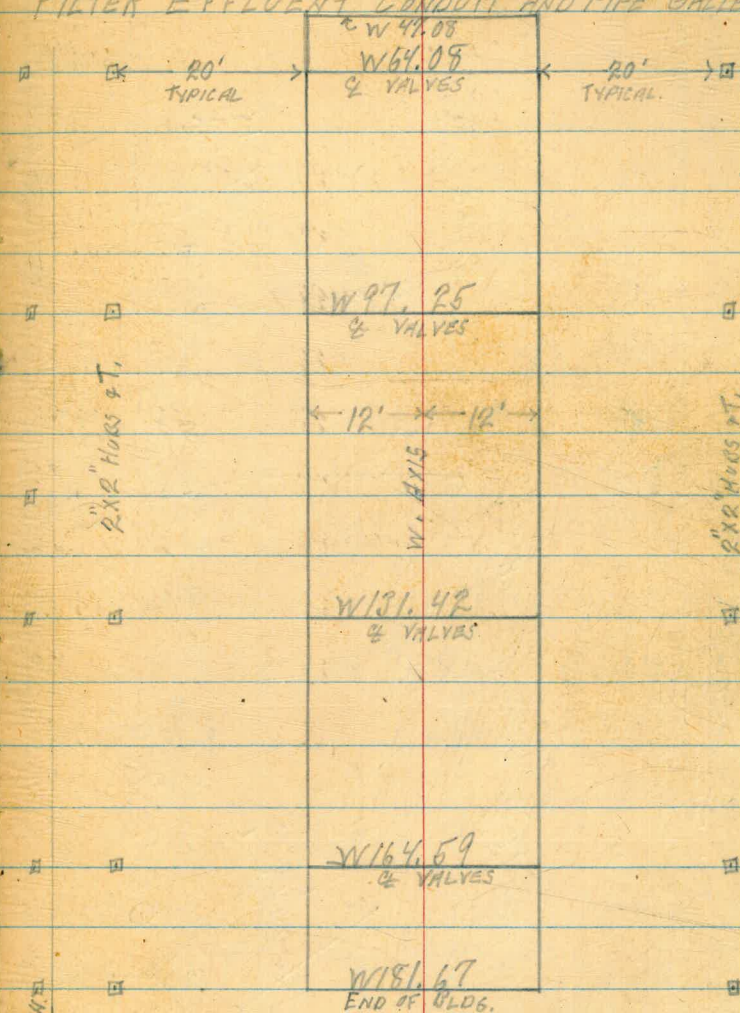
20.

R.P.'s FOR

FILTER EFFLUENT CONDUIT AND PIPE GALLERY

B.M.	+8.95	549.59		534.40	111 W.S.05
		BOTTOM SLAB GRADE:		HUB ELEV.	CUT.
W64.08	NSR	522.17	-4.76	538.57	16.40
"	SSR	"	-4.72	" .61	16.44
W97.25	NSR	522.00	-4.94	" .39	16.39
"	SSR	"	-4.74	" .59	16.59
W131.42	NSR	521.85	-4.78	" .55	16.72
"	SSR	"	-4.74	" .59	16.76
W164.59	NSR	521.66	-4.85	" .49	16.72
"	SSR	"	-4.68	" .65	16.99
W181.67	NSR	521.58	-4.83	" .50	16.92
"	SSR	"	-6.33	537.00	15.42

CHECK B.M.



ON RECORD AT 208.074

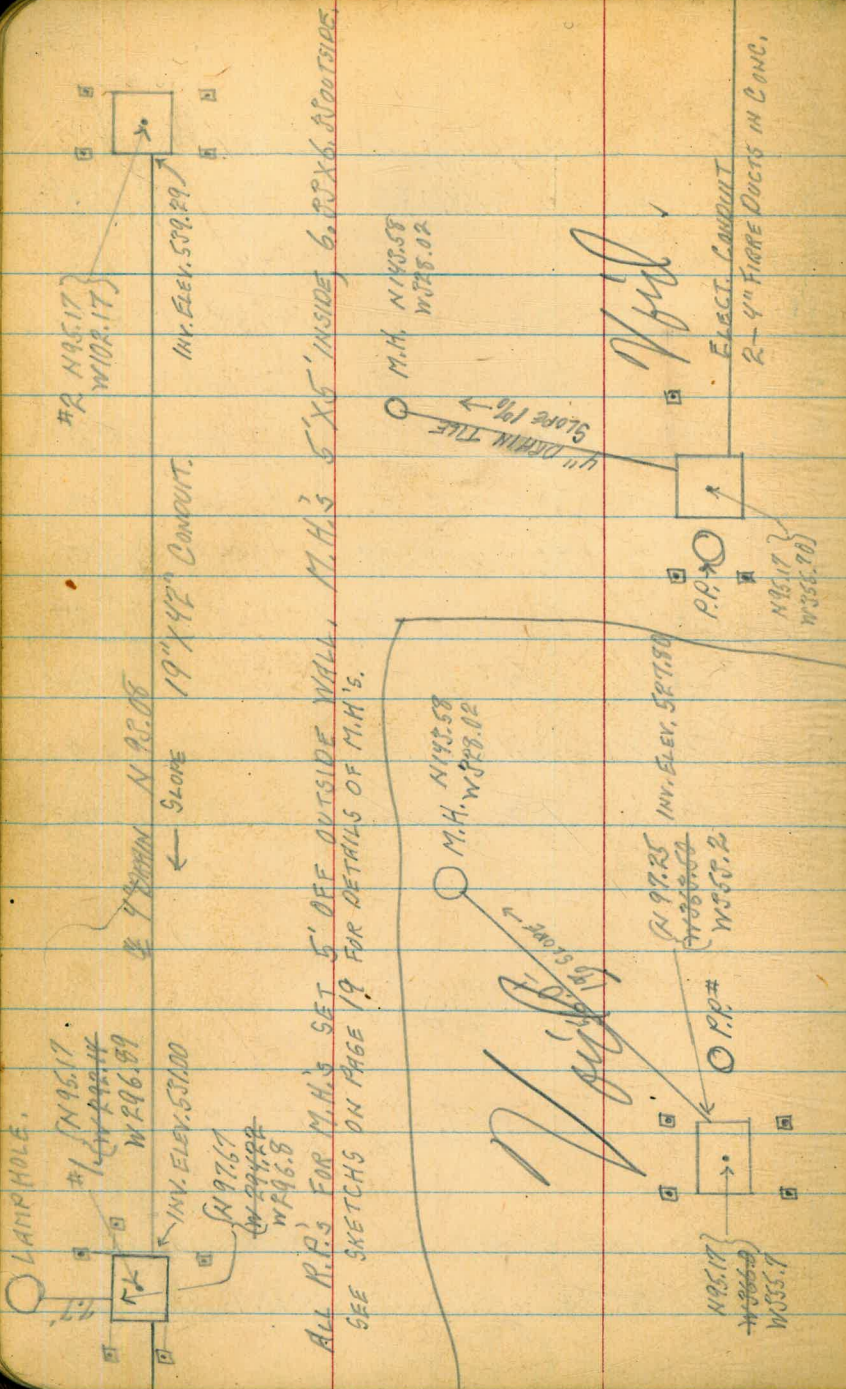
JULY 5, 1949

NOTE: ALL POINTS TO BE MOVED 1" WEST
IN ACCORDANCE WITH SUPPLEMENT TO G-6.

JUNE 22, 1949 LEONARD
PAYNE
CARVER 21.

ELECT. MANHOLE DRAINING; CUT STAKES FOR

COORDINATES	INVERT GRADE		HUB ELEV.	CUT
R.M. +9.47	543.87		534.40	RIM M.H. 5'11" WIDE
N 93.08 W 101.67	539.29	-3.38	540.49	C 1.20
" W 146.85	538.11	-3.34	540.58	C 2.42
" W 189.00	536.25	-4.42	539.45	C 2.52
" W 231.15	535.25	-4.91	538.96	C 3.21
" W 273.25	534.57	-6.13	537.74	C 3.17
" W 289.64	531.00	-6.34	537.53	C 6.58
SEE LEFT SIDE PAGE 22 FOR REVISED GRADE.				
N 97.67 W 294.22	531.00	-6.57	537.30	C 6.30
LAMP HOLE	530.85	-7.51	536.36	C 5.51
CHECK R.M.		-9.47	534.40	
N.D. +6.89	541.29			
N 97.25 W 363.50	527.80	-5.59	535.70	
N 120.4 W 345.8	527.52	-6.17	535.12	
N 143.6 W 328 M.H.	527.24	-6.89	534.40	



ALL R.P.'S FOR M.H.'S SET 5' OFF OUTSIDE WALL. M.H.'S 5' X 6' INSIDE, 6' EX X 6' OUTSIDE.

JULY 8, 1949

LEONARD
BAKER - ROD
PAYNE - T
CARVER

REVISED GRADE, ELEC. M.H. DRAIN LINE.

LOCATION:	INVERT GRADE:	-	HUB ELEV.	CUT.
B.M.	+8.05	544.44	536.39	ON DAM
N 93.08 W 104.67	539.79	-3.82	540.62	C 1.83
" W 146.85	538.27	-3.65	540.79	C 2.52
" W 189.00	537.26	-4.75	539.69	C 2.43
" W 231.15	536.25	-5.36	539.08	C 2.83
" W 273.25	535.24	-6.72	537.72	C 2.48
" W 289.64	532.00 531.00	-6.81	537.63	C 6.63

Rim of M.H.
SET B.M. N 79.5 W 262.0
CHECK B.M. IN DAM.
NOTE: GRADE REVISED TO CLEAR TOP OF 48" WASTE

WASH WATER LINE AT W 273.25

SUB-GRADE FOR ELECT. CONDUIT, SEC. K-K,
(H. EOSE)

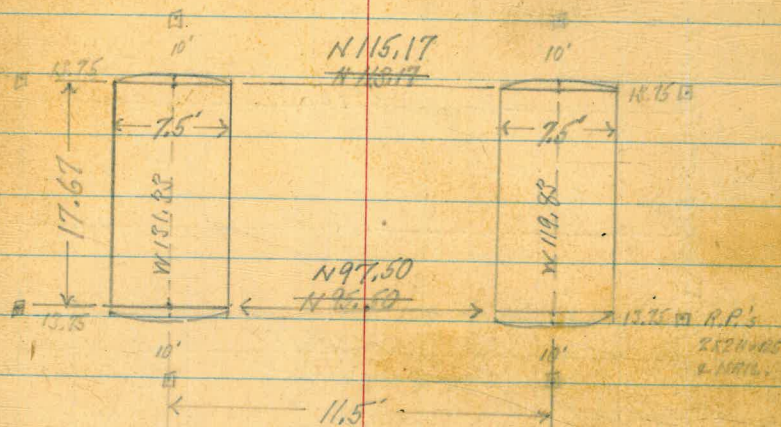
N 96.08 W 104.67	541.00	} SLOPE .0311
" W 146.85	539.69	
" W 189.00	538.38	
" W 231.15	537.07	
" W 273.25	535.75	
" W 289.64	535.24	

JUNE 28, '49

LEONARD T
PAYNE HC.
CARVER C.

P.P.

FUEL OIL STORAGE TANKS: R.P.'s & CUTS



N-S R.P.'s 10' OFF E-W R.P.'s 13.75' OFF FROM 2 TANKS.
TOP OF TANKS: ELEV. 541.97
BOTTOM OF TANKS: ELEV. 534.42

B.M.	+8.96	545.85	536.39	ON DAM	
N.E. COR.		534.42	-4.55	540.50	C 6.38
S.E. COR.		"	-4.94	540.41	C 6.0
N.W. COR.		"	-4.19	541.16	C 6.74
S.W. COR.		"	-4.81	540.54	C 6.12
CHECK B.M.			-8.96	536.39	

JULY 28, 1949

NOTE: TANKS MOVED NORTH 2 FT. TO CLEAR
ELECTRICAL DUCTS, PER ORDERS REG. ENG.
D. Leonard.

← Z →

MIXING & SETTLING BASIN CONSTRUCTION POINTS.

SETTLING BASIN FOOTINGS:

Point	Value	Point	Value
			372.08
			356.08
			338.08
			321.08
			304.08
			287.08
			270.08
			253.08
			236.08
			201.08
			184.08
			167.08
			150.08
			133.08
			116.08
			99.08
			82.08
			65.08

N 1/2" EDGE OF FOOTING.

← S 156.6' OUT-SIDE OF FOOTING UNDER SOUTH WALL.

INSD. S. WALL OF EXST. CHANNEL

E 78.17

N 61.09

N 29.80

315.17

358.17

SCENT

3148.92

N 4.92

S 4.92

525.92

S 47.92

S 68.92

S 90.92

S 112.92

S 134.92

E 346.58

E 312.58

E 270.58

E 246.58

E 192.58

E 158.58

E 124.58

E 90.58

JUNE 28, 1949

LEONARD
RAYNE
CARVER,

24

CHECK ELEV. IN FOOTING HOLES, SETTLING BASINS.

B.M. + I.O.R.	539.49	538.47	MON. 588E.
LOCATION:	-	ELEV. BOTTOM HOLE	
S133.42 E372.08		-10.34	529.15
" E355.08		-9.24	530.25
" E338.08		-9.27	530.12
" E221.08		-9.50	529.99
" E304.08		-10.59	528.90
" E287.08		-10.60	528.80
" E270.08		-10.13	529.36
S111.92 E372.08		-9.28	530.21
" E355.08		-8.50	530.99
" E338.08		-8.56	530.93
" E 99.08		-8.80	530.69
" E 82.08		-9.24	530.25
" E 65.08		-9.80	529.69
CHECK B.M.		-1.02	538.47

JUNE 30, '49

LEONARD
PAYNE
CARVER

25.

ELEV. IN FOOTING HOLES UNDER BASINS, CONT'D.

R.M. ^{RIM M.H.} 5178 E60	+9.18	539.49	530.31
S 155.42 E 253.08		-10.85	528.66
" E 286.08		-10.42	529.06
" E 206.08		-10.15	529.34
" E 184.08		-10.48	529.01
" E 167.08		-11.00	528.49
" E 150.08		-10.30	529.19
" E 133.08		-10.75	528.74
S 90.42 E 355.08		-7.30	532.19
" E 338.08		-7.25	532.24
CHECK R.M.		-9.18	530.31
R.M. ^{RIM M.H.} 5178 E60	+8.90	539.21	530.31
S 133.42 E 65.08		-10.22	528.99
" E 82.08		-11.13	528.08
" E 99.08		-10.69	528.52
S 90.42 E 65.08		-7.19	532.02
" E 99.08		-7.19	532.02
" E 372.08		-7.18	532.03
" E 355.08 DUPLICATE		-7.00	532.21

July 1st, 49

LEONARD
BAKER, J.
PAYNE, H.C.
CARVER, R.C.

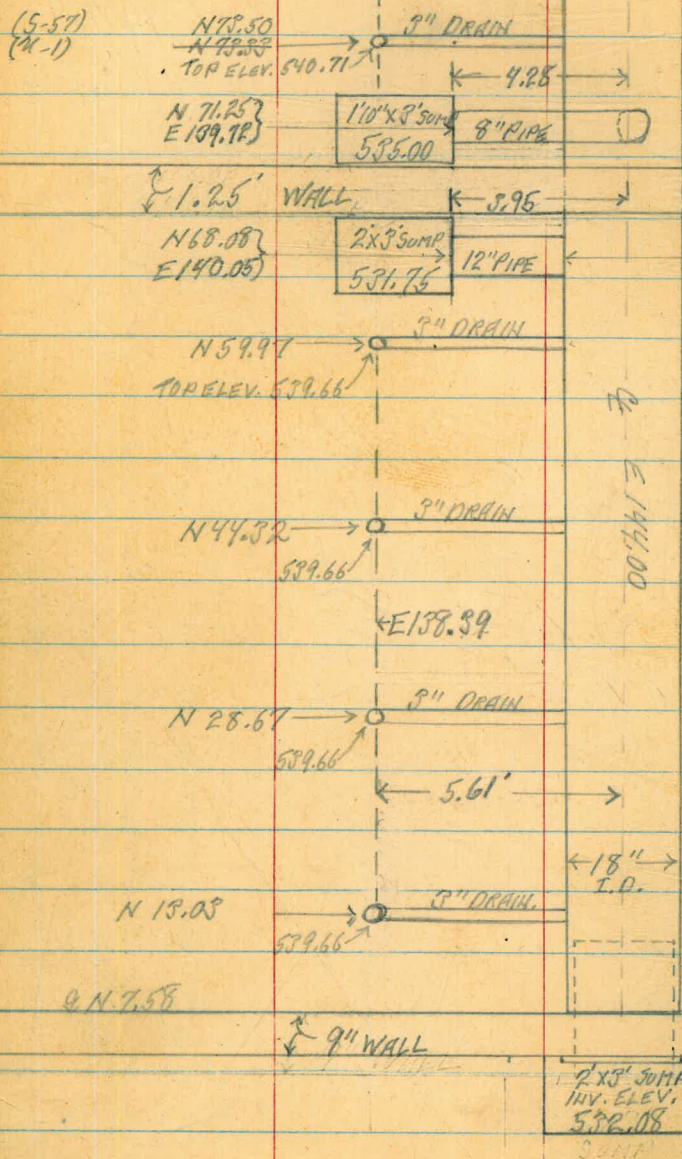
P. 6.

ELEV'S IN FOOTING HOLES, CONT'D.

		539.21		
S 90.42	E 338.08		-7.01	532.20
"	E 321.08		-9.73	529.48
"	E 304.08		-8.63	530.58
"	E 287.08		-7.47	531.74
"	E 270.08		-7.34	531.87
"	E 253.08		-7.30	531.91
"	E 236.08		-7.28	531.93
CHECK B.M.			-8.90	530.31
+	8.69	539.00		
S 90.42	E 116.08		-7.14	531.96
"	E 138.08		-8.35	530.65
"	E 160.08		-7.70	531.80
"	E 167.08		-7.05	531.95
"	E 184.08		-7.42	531.58
"	E 201.08		-7.29	531.71
"	E 88.08		-7.14	531.96
B.M.	R.M. M.H. S 178 E 60	8.86	July 5th, 49 539.17	530.31
S 90.42	E 65.08		-7.17	532.00
check B.M.			8.86	530.31

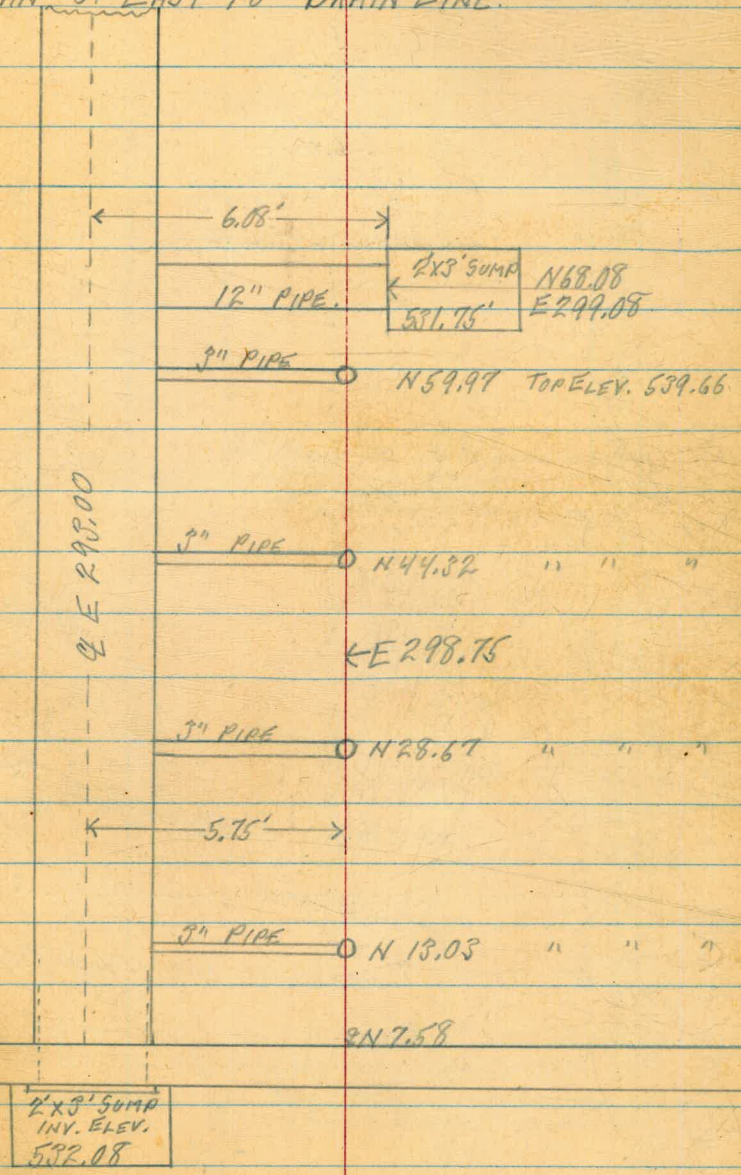
MIXING BASINS:

PLAN OF WEST 18" DRAIN LINE



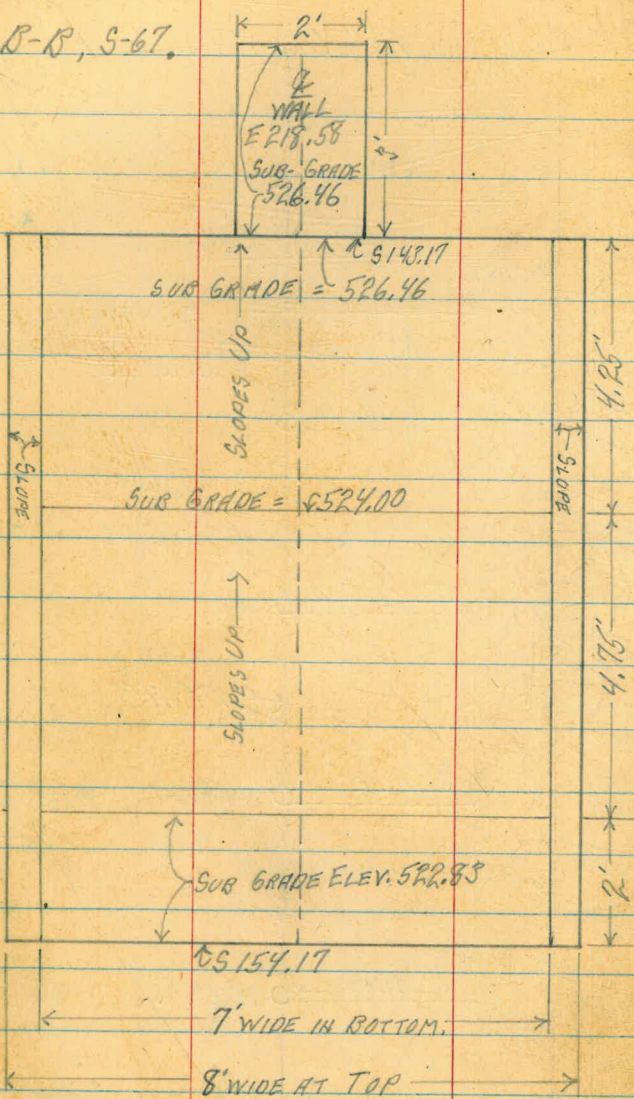
NOTE: CENTER LINE AT N. 68.26, 17' OFF

PLAN OF EAST 18" DRAIN LINE

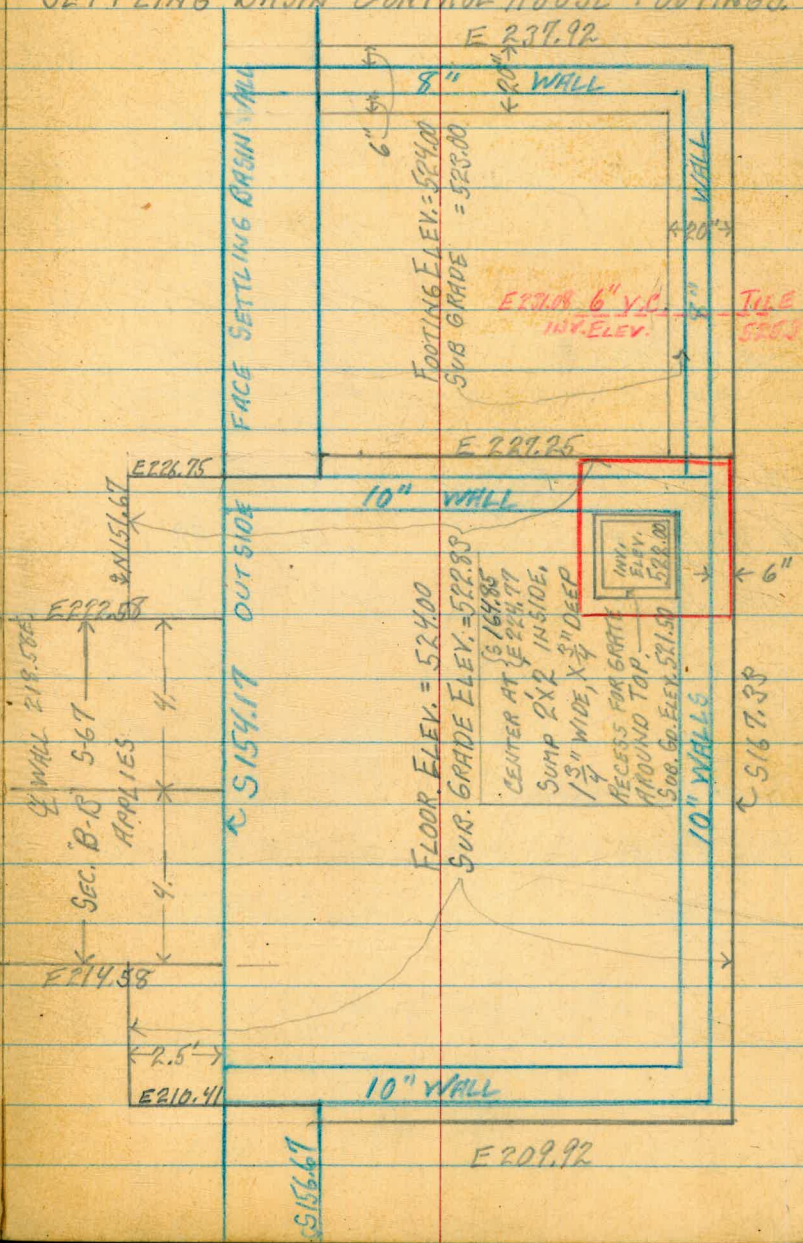


2' X 3' SUMP
INV. ELEV.
532.08

SEC. B-B, S-67.



SETTLING BASIN CONTROL HOUSE FOOTINGS.



JULY 20, 1949 LEONARD
 BAKER 29.
 PAYNE
 CARVER

JULY 27, 1949.

B.M. + 1.97	532.28		530.31
TOP OF FLANGE	520.32	11.96	520.32
T.P. + 6.64	526.96		520.32
N. END 20" PIPE		-11.89	515.57
TOP FLANGE DRAIN		-9.77	517.19
S. END 20" PIPE		-11.52	515.44

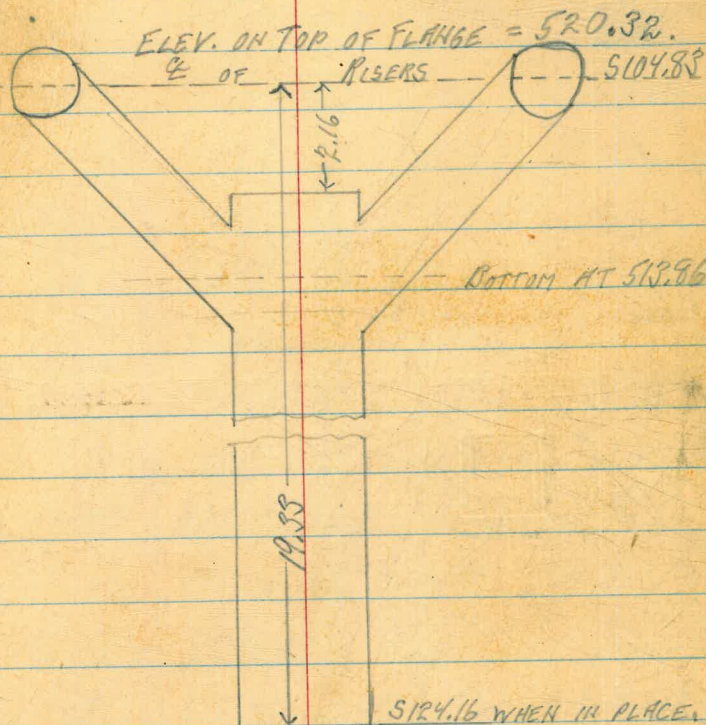
B.M. + 2.25	532.56		530.31
TOP W. RISER		-12.24	520.32
" E. RISER		-12.24	520.32

JULY 28, 1949.

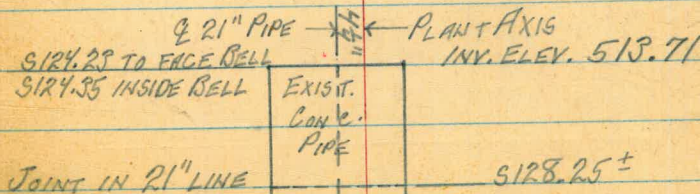
B.M. + 2.59	532.90		530.31
TOP W. RISER		-12.58	520.32
" E. RISER		-12.59	520.31

JULY 21, 1949 LEONARD
BAKER 29.
PAYNE
CARVER

21" BRINE LINE AND STEEL EXTENSION.



LENGTH OF 20" STEEL PIPE EXTENSION TO
21" SALT BRINE LINE.



JUNE 29, 1949

LEONARD
PAYNE
CARVER

80.

DRAIN LINES UNDER FILTER BEDS.

B.M.	7.34	541.74		534.40	RIM M.H.
LOCATION.		GRADE		HOELEY.	SUB WROG CUT.
N52	W51.08	537.48	-3.33	538.41	C 0.93
N79.5	W51.08	537.24	-3.77	537.97	C 0.78
N52	W76.75 ² W54.75	537.48	-3.25	538.49	C 1.01
N79.5	"	537.24	-3.29	538.45	C 1.21
N52	W110.42 ² W118.42	537.48	-3.37	538.37	C 0.89
N79.5	"	537.24	-3.16	538.59	C 1.34
N52	W144.08 ² W152.08	537.48	-3.31	538.43	C 0.95
N79.5	"	537.24	-3.26	538.48	C 1.24
N52	W-177.75	537.48	-3.10	538.64	C 1.16
N79.5	"	537.24	-3.13	538.61	C 1.37

6" V.C. PIPE HEADER: NORTH SIDE.

N79.5	W51.08	535.30	-3.49	538.25	C 2.95
"	W76.75	535.17	-3.25	538.49	C 3.32
"	W84.75	535.13	-3.29	538.45	C 3.32
"	W110.42	535.00	-3.12	538.62	C 3.62
"	W118.42	534.96	-3.07	538.67	C 3.71
"	W144.08	534.84	-3.19	538.65	C 3.71
"	W152.08	534.80	-3.12	538.62	C 3.82

LEONARD,
CARVER.

JUNE 29, 1949

31.

DRAIN TILE UNDER FILTERS:

TILE DRAINS UNDER FILTERS, CONT'D.

STATION:	GRADE:	-	HUB ELEV.	CUT	H.L.						
B.M.	+4.52	548.51	538.99	ZEOLITE DOORSILL.	541.74	179.5	W177.75	534.67 IN	-3.07	538.67	C 4.00
S13.00 W51.08	537.58	-5.27	538.24	C 0.66	"	"	531.00 OUT	"	538.67	C 7.67	
S33.00 "	537.48	-5.05	538.48	C 1.00	"	W185.75	530.96	-2.85	538.89	C 7.93	
S53.00 "	537.38	-5.42	538.09	C 0.71	"	W211.42	530.83	-2.55	538.19	C 7.36	
CHECK B.M.		-4.52	538.99		"	W219.42	530.79	-2.58	538.16	C 7.37	
"					"	W246.08	530.66	-3.20	538.54	C 7.88	
					"	W260 ⁺	530.58	-3.54	538.20	C 7.62	
DRAIN TILE UNDER FILTERS - LAST SECTION.											
B.M.	+5.28	548.48	538.20	P.M.M.H. S181.33 W100.17	TILE DRAINS - S. SIDE:						
S53 W51.08	537.38	-5.06	538.42	C 1.04	S32	W51.08	537.48	-3.50	538.24	C 0.76	
S73 "	537.27	-5.65	537.83	C 0.56	"	W76.75	537.48	-3.18	538.56	C 1.08	
S75.5 "	535.30	-5.65	537.83	C 2.59	"	W84.75	537.48	-3.17	538.57	C 1.09	
S75.5 W76.75	535.17	-5.13	538.35	C 3.18	"	W110.42	537.48	-3.10	538.64	C 0.16	
SUB GRADE IN FILTERS	538.50	-4.98	538.50	BEV. TIPS.	"	W118.42	537.48	-3.49	538.25	C 0.77	
CHECK B.M.		-5.28	538.20		"	W144.08	537.48	-3.10	538.64	C 0.16	
					"	W158.08	537.48	-3.10	538.64	C 0.16	
					"	W177.75	537.48	-3.49	538.25	C 0.77	
					S75.5	W51.08	537.24	-4.70	537.04	F 0.20	
					"	W76.75	537.24	-3.12	538.62	C 1.38	
					"	W84.75	537.24	-2.97	538.77	C 1.53	
					"	W110.42	537.24	-2.97	538.77	C 1.53	
					"	W118.42	537.24	-2.97	538.77	C 1.53	
					"	W144.08	537.24	-3.08	538.66	C 1.42	
					"	W158.08	537.24	-3.08	538.66	C 1.42	
					"	W177.75	537.24	-4.69	537.05	F 0.19	
					CHECK B.M.			-7.34	534.40		

Aug 26, 1949

LEONARD
PAYNE
CARVER

6" DRAIN, S. SIDE; RESET CUT STAKES

R.M. + 6.38	540.78		534.40		
W51.08	535.30	OMIT - OPEN SPACE			
W76.75 375.5	535.17	-2.30	538.48	3.51	CUT
W84.75	35.13	-2.39	38.39	3.26	
W110.42	35.00	-2.77	38.51	3.51	
W118.42	34.96	-2.35	38.43	3.47	
W144.08	34.84	-2.30	38.48	3.64	
W152.08	34.80	-2.22	38.56	3.76	
W177.75	34.67 IN	-4.25	36.53	1.86	
"	^{29.50} 29.00 OUT	-4.25	36.53	7.63	
W186.75	^{29.42} 28.96	-4.59	36.19	7.23	
W211.42	^{29.17} 28.83	-5.00	35.78	6.95	
W219.42	^{29.10} 28.79	-5.11	35.67	6.88	
W245.08	^{28.85} 28.66	-5.45	35.33	6.67	
W262.7 EXIST. PIPE END	528.68 AS LAID.				
W265 ON M.H. LIM.	28.65	6.01	34.77	6.22	
CHECK R.M.		-6.38	534.40		

SEPT. 1, 1949.

NOTE:

TO COMPENSATE FOR AN ERROR

MADE IN BACKFILLING THE DITCH BETWEEN

W177.75 AND W262.7 WITH SAND, THE GRADE
WAS RAISED 1/2 FT. AT W177.75 AND GIVEN A UNIFORM

6-30-49

LEONARD
PAYNE
CARVER

32.

DRAINS UNDER FILTERS, CONT'D.
6" V.C. PIPE HEADER - S. SIDE:

R.M. + 9.90	H.d. 540.30		534.40	M.H.	
975.5 W51.08	INV. GRADE: 535.30	-7.87	535.43	S.M. W305.	C 0.13
" W76.75	535.17	-5.10	538.20		C 3.03
" W84.75	535.13	-5.55	537.75		C 2.62
" W110.42	535.00	-4.76	538.54		C 3.54
" W118.42	534.96	-4.74	538.56		C 3.60
" W144.08	534.84	-4.78	538.52		C 3.68
" W152.08	534.80	-4.73	538.57		C 3.77
" W177.75	534.67 IN	-6.96	536.34		C 1.67
"	529.00 OUT	"	536.34		C 7.34
" W186.75	528.96	-7.29	536.01		C 7.05
" W211.42	528.83	-7.71	535.59		C 6.76
" W219.42	528.79	-7.75	535.55		C 6.76
" W245.08	528.66	-8.04	535.26 534.26		C 6.60 5.60
" W265±	528.55	-8.49	534.81		C 6.26
CHECK R.M.		-8.90	534.40		

SLOPE TO THE EXISTING LINE AT W262.7
19, Leonard.

JUNE 30, '49.

LEONARD
PAYNE
CARVER.

53

FOOTINGS UNDER HEADHOUSE & BASIN WALLS

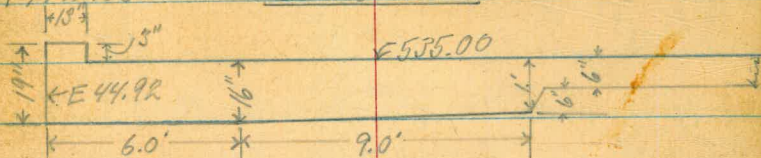
B.M. +5.89 536.20

GRADE
ROD

530.81 M.H. E605178

FROM N12.00

LOOKING NORTH



512 TO -529.50
TOP FOOTING E. SIDE

12.87 523.83 Low 1'

" " W. SIDE

-12.58 523.67 Low .04'

529.58 TO
TOP FOOTING E. SIDE

12.57 523.63 Low .04'

" " W. SIDE

12.70 523.50 Low .04'

FROM N 8.0 TO N 12.0

GROUND ELEV. 531.67

FROM N 8.0 TO S 4.0

GROUND ELEV. 529.67

FROM S 4.0 TO S 8.0

GROUND ELEV. 527.33

FROM S 8.0 TO S 11.75

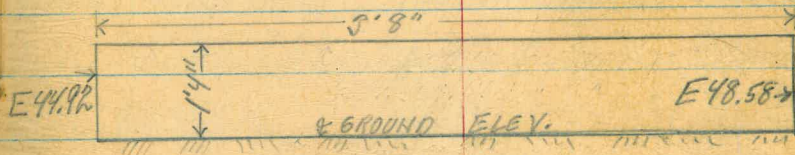
GROUND ELEV. 525.00

GROUND ELEV. N 8 TO 12, 531.64 -4.66 531.64

" " N 8 TO S 4.0 529.67 -6.66 529.54

" " S 4.0 TO S 8.0 527.33 -9.02 527.18

" " S 8.0 TO S 12.0 525.00 -11.20 525.00



S-3 SEC. 17-17

APPLIES TO ALL STEPS FROM S 12.00 TO N 12.00

FROM: 527.75 TO 512.58

528.50

E 45.5

GROUND

ELEV. 522.50

S-48

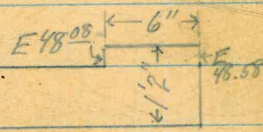
SEC. 2-2



E 45.5

GROUND ELEV. 522.67

S-3
SEC. 16-16 FROM S 12.00 TO S 27.75

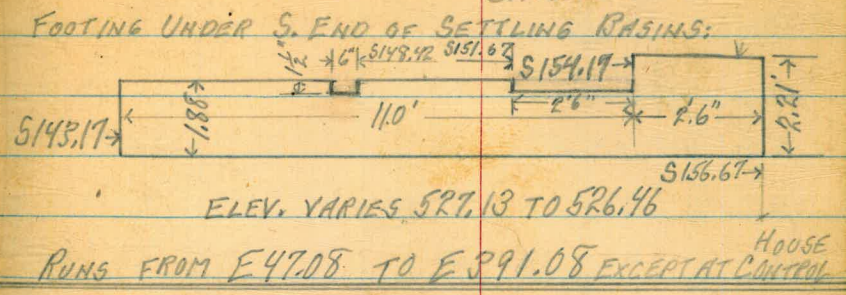


July 15, 49
 LEONARD
 BAKER &
 PAULINE M.
 CARVER, RC. 34.

ELEV. OF SLAB FOOTING UNDER S. END SETTLING BASINS
 STATION: FLOOR ELEV. 2'6" LIP ELEV.

E 47.08	529.00	529.84
72.08	28.90	29.24
97.08	28.80	29.14
122.08	28.70	29.04
147.08	28.60	28.94
172.08	28.50	28.84
192.58 JOINT.	28.42	28.76
244.58 "	28.42	28.76
265.08	28.50	28.84
290.08	28.60	28.94
315.08	28.70	29.04
340.08	28.80	29.14
365.08	28.90	29.24
390.58	29.00	29.34

2 OF TROUGH AT 5150.05



LOCATION	SUB. GRADE	-	HUR ELEV.	CUT
B.M.	+3.71	HI. 534.02	530.31	
E 47.08	527.13	3.15	530.87	C 3.74
E 72.08	527.03	3.95	530.07	C 3.04
E 97.08	526.93	4.13	529.89	C 2.96
E 122.08	526.83	4.14	529.88	C 3.05
E 147.08	526.73	3.95	530.07	C 3.34
E 172.08	526.63	4.06	529.96	C 3.33
E 197.08	526.53	4.19	529.83	C 3.30
E 215.08	526.46	4.23	529.79	C 3.33
E 222.08	526.46	4.27	529.75	C 3.29
E 240.08	526.53	4.32	529.70	C 3.17
E 265.08	526.63	4.23	529.79	C 3.16
E 290.08	526.73	4.17	529.85	C 3.12
E 315.08	526.83	3.85	530.17	C 3.34

B5

STATION.	SUR. GRADE	-	HUR ELEV.	CUT.
H.L.			534.02	
E340.08	526.98	3.86	530.16	C 3.23
E365.08	527.08	3.79	530.23	C 3.20
E390.08	527.18	3.58	530.44	C 3.31
CHECK B.M.		3.71	= 530.31	

SEE BOOK 741, PAGE 8, FOR GRADES AS RESET
ON JULY 12.

FOOTINGS UNDER MIXING BASINS; GRADES

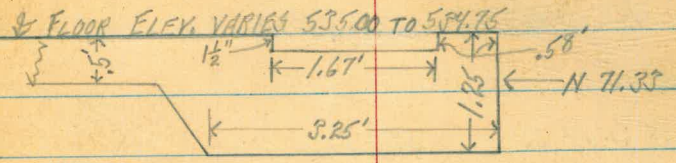
SUB-GRADE UNDER WALL FOOTINGS:

N 71.33 E 50.92'	533.74	N 71.33	E 236.93	533.69
N 74.33 E 93.42'	533.62	"	E 267.03	533.59
" E 140.05'	533.50	"	E 297.11	533.50
" E 171.80	533.60	"	E 327.	533.58
N 74.33		"	E 357.	533.66
N 71.33 E 203.50	533.70	"	E 388.83	533.75
CL OF WALL TO SOUTH N 71.33 E 218.58	533.75	"		

SUB-GRADE UNDER CHANNEL FLOOR ON N. SIDE OF WALL.

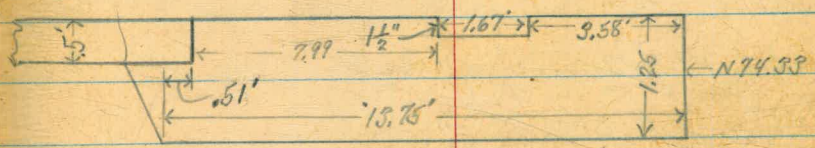
N 71.33 E 50.92	537.49
N 74.33 E 93.42	537.37
" E 140.05	537.25
" E 171.80	537.33
" E 203.50	537.41
N 71.33 E 236.93	537.50

FOOTINGS UNDER MIXING BASINS:



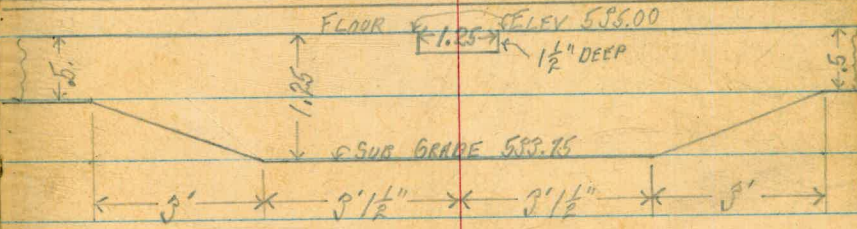
SEC. 12-12. SHEET 5-62.

FROM: 50.92E TO: 93.42E AND FROM: 203.50 TO 236.93E



SEC. 16-16 SHEET 5-63.

FROM 236.93E TO: 396.08E LOW POINT AT E 297.11
FROM: 93.42E TO: 203.50E. LOW POINT AT 140.05E.



SEC. 7-7 SHEET 61

CENTERED AT E 18.58
FROM N 7.58 TO N 69.08.

SUB-GRADE UNDER FOOTINGS:

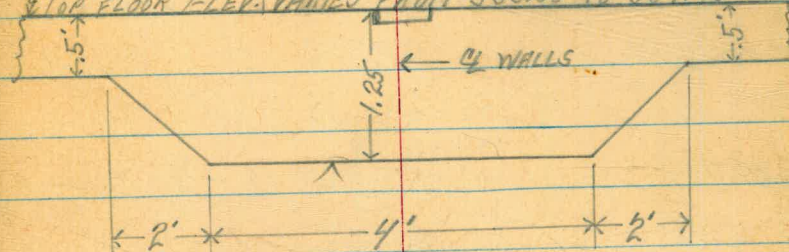
SAME AS GIVEN FOR N6.83 ON PAGE 38, WITH EXTRA

GRADES AT:

N 22.68	E 68.33	533.74
N 53.98	"	"
N 22.68	E 197.96	533.56
N 53.98	"	"
N 22.68	E 388.83	533.74
N 53.98	"	"

FOOTINGS UNDER MIXING BASINS, CONT'D.

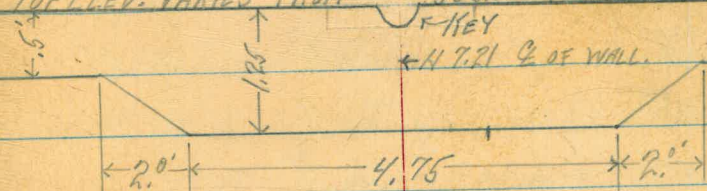
TOP FLOOR ELEV. VARIES FROM 535.00 TO 534.75



SEC. 8-8, SHEET S-61 TYPICAL FOR:

WALL Q'S AT: N 22.68 E 68.33 TO E 388.83
 E 239.21 TO 388.83 E
 N 38.53 E 48.33 TO E 197.96 AND
 N 53.98 E 68.33 TO E 388.83

TOP FLEV. VARIES FROM 535.00 TO 534.75



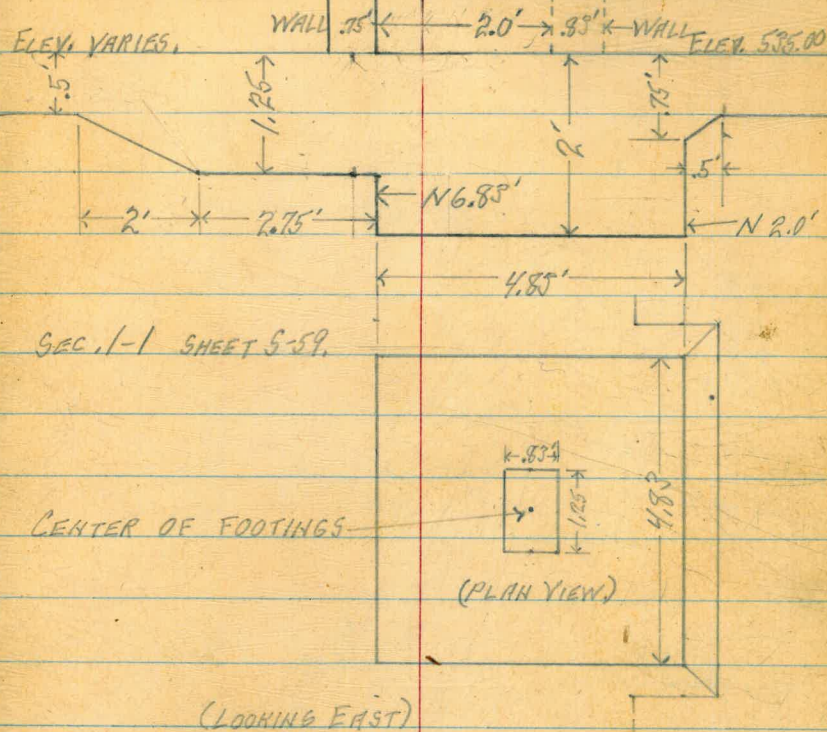
SEC. 1-1, SHEET S-5. FROM E 50.92 TO E 388.58

EXCEPT IN FOOTING AREAS UNDER COLUMNS,
 FOR WHICH USE FOOTING SHOWN ON PAGE 38.

SUB GRADE UNDER FOOTINGS:

E. COORDINATES OF CENTER OF 4.83' SQUARES	N 6.83 TO N 9.58	IN 4.83' SQUARES N 6.83 TO N 2.0
E 65.08	533.70	533.00
E 82.08	533.66	"
E 99.08	533.61	"
E 116.08	533.57	"
E 133.08	533.52	"
E 140.08 LOW POINT	533.50	"
E 150.08	533.53	"
E 167.08	533.59	"
E 184.08	533.64	"
E 201.08	533.70	"
E 218.58 $\frac{1}{2}$ N-S WALL	533.75	533.75
E 236.08	533.70	533.00
E 253.08	533.64	"
E 270.08	533.59	"
E 287.08	533.53	"
E 297.11 LOW POINT	533.50	"
E 304.08	533.52	"
E 321.08	533.57	"
E 338.08	533.61	"
E 355.08	533.66	"
E 372.08	533.70	"

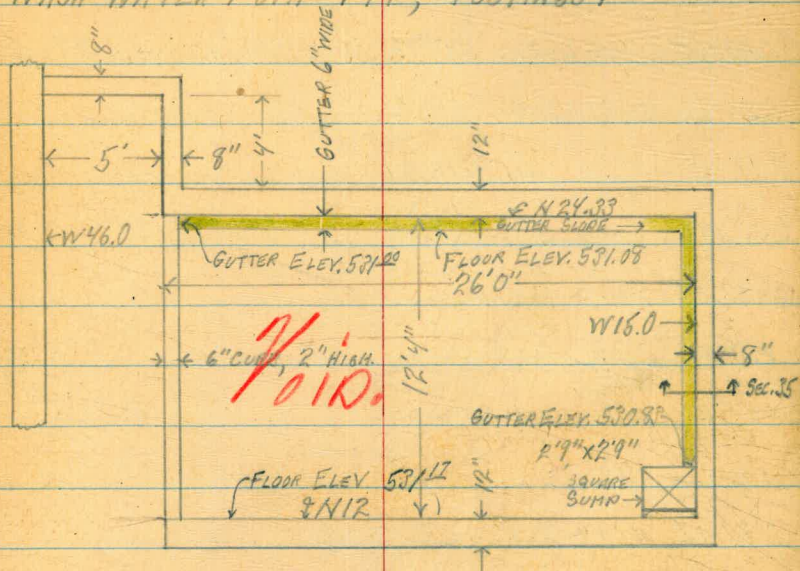
FOOTINGS UNDER COLUMNS IN SETTLING BASINS.



CENTERS AT: N 4.42; E 65.08, E 82.08, E 99.08, E 116.08, E 133.08, E 150.08, E 167.08, E 184.08, E 201.08, E 236.08, E 253.08, E 270.08, E 287.08, E 304.08, E 321.08, E 338.08, E 355.08, E 372.08.

SET MARKS ON $\frac{1}{2}$ OF WALL AT N 7.21

WASH WATER PUMP PIT, FOOTINGS:



REVISED 3 TIMES.

SUMP IS 2'9" SQUARE

2'5" DEEP

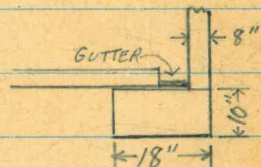
HAS 6" WALLS ON SOUTH, WEST, & NORTH SIDES SEC. 35-35.

" 8" WALL ON EAST SIDE, WITH 3" DRAIN INLET.

BOTTOM IS 10" THICK. SUB GRADE OF SUMP = 527.92

A RECESS GOES AROUND THE TOP FOR GRATING.

SEE F.R. 742, PAGE 6, FOR PUMP BASES.



FOOTING BLOCKS UNDER COLUMNS, TOP ELEV.

CENTER LINE ELEV: 519.25 5' E. AND 5' W. ELEV: 519.15

526.66 GUTTER ELEV. 519.00

529.60 " " 518.94

533.00 " " 518.88

547.08 GUTTER ELEV.

552.08 " "

557.08 " "

571.08 GUTTER ELEV. 518.92

574.58 GUTTER ELEV. 519.00

578.08 GUTTER ELEV. 518.98

596.70 TO 5103.45 TOP OF FOOTING "A" = 517.27

596.70 GUTTER ELEV. 518.93

5100.08 " " 519.00

5103.45 " " 518.92

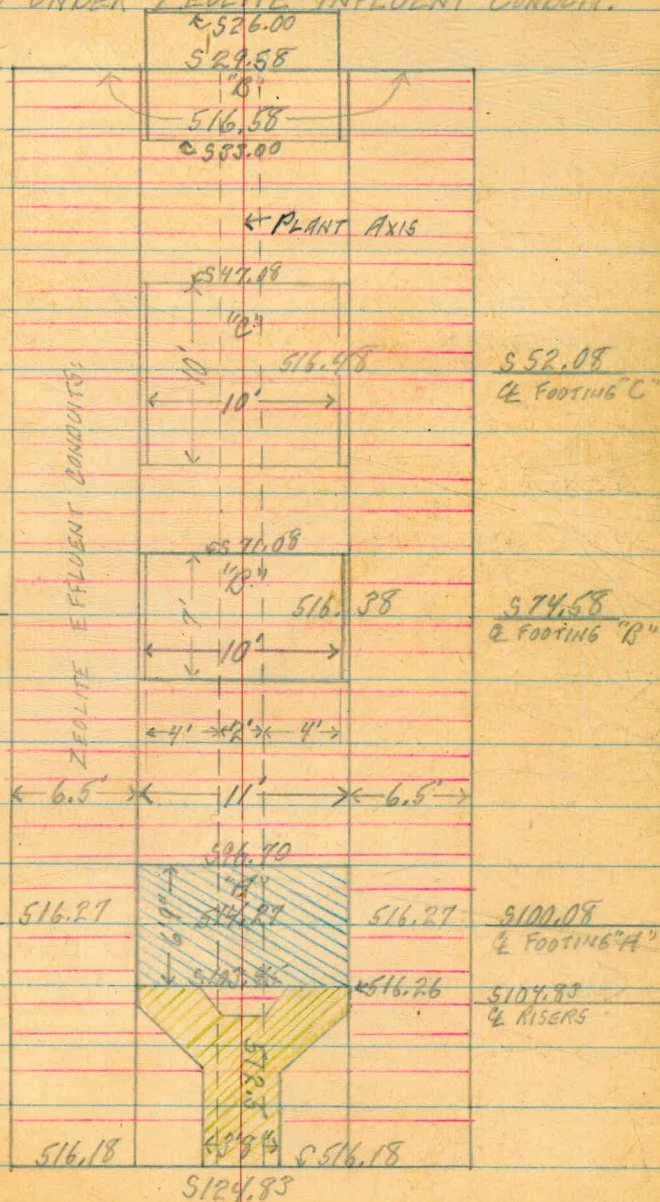
SUR-GRADE FOR FOOTINGS UNDER ZEOLITE INFLUENT CONDUIT.

SEC. C-C
5-51.

SEC. D-D
5-51.

SEC. C-C
3-51.

SEC. R-R
5-51



JULY 29, 1949 LEONARD
BAKER
PAYNE
CARVER

MIXING BASINS:
CENTERS OF DRY WELL WALLS:

E 126.42 TO E 139.75

E 297.42 TO E 310.75

N 78.17

N 72.50

N 64.64

N 58.97

N 48.99

N 43.32

N 33.34

N 27.68

N 17.70

N 12.03

N 64.64

N 58.97

N 48.99

N 43.32

N 33.34

N 27.68

N 17.70

N 12.03

JULY 26, 1949 LEONARD 41.
BAKER
PAYNE
CARVER

MIXING BASINS.
CENTERS OF MIXING PADDLE SUPPORTS:

N 75.33

N 61.80; 46.16; 30.51; 14.86

E 16.98

E 48.78

E 372.96

E 32.54

E 64.21

E 388.88

E 48.10

E 79.64

E 63.67

E 95.06 TOP ELEV. = 541.39

E 79.23

E 110.49

E 94.79

E 155.68

E 110.36

E 171.10

E 155.81

E 186.53

E 171.37

E 201.96

E 186.94

E 217.39

E 202.50

E 219.78

E 218.06

E 235.21

E 233.62

E 250.63

E 266.06

TOP ELEV. = 542.43

E 281.49

E 326.68

E 342.10

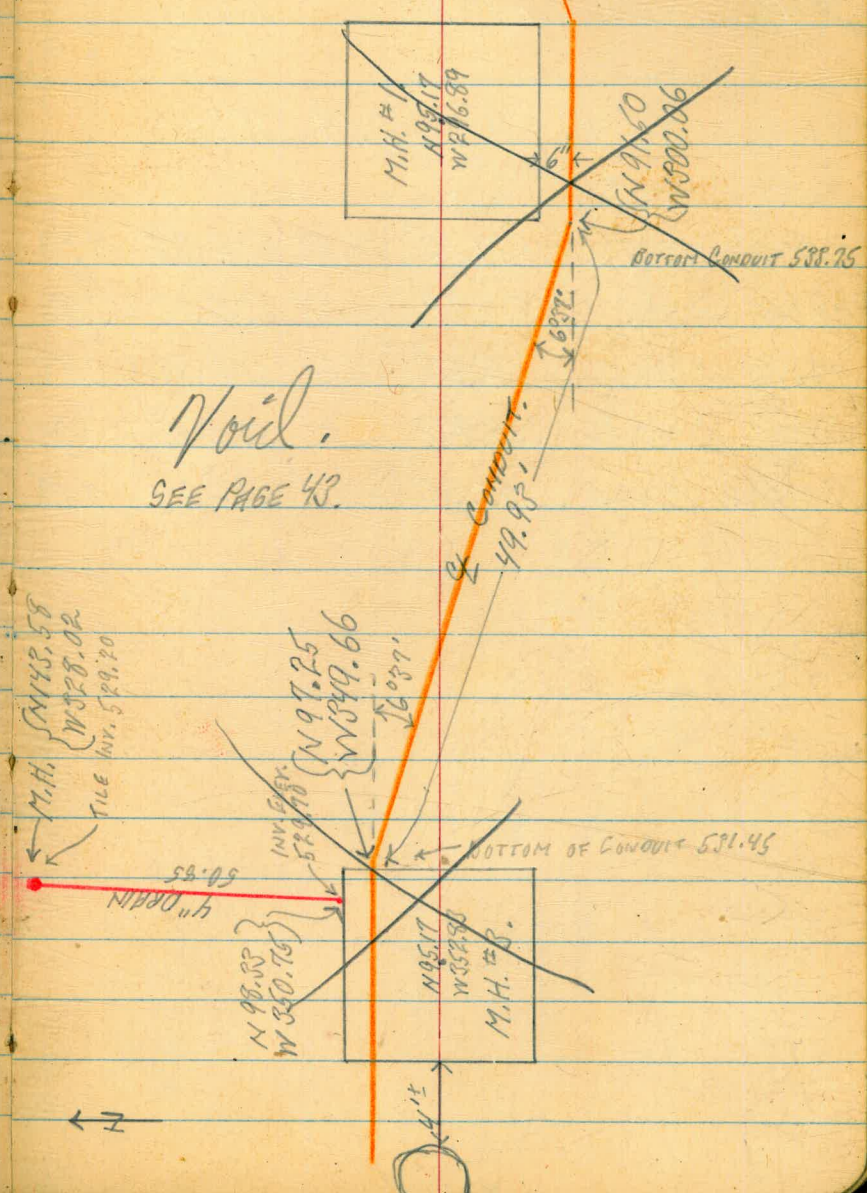
E 357.53

JULY 28, 1949.

LEONARD
BAKER
PAYNE
CARVER.

42.

ELECT. CONDUIT FOR 2 4" FIBRE DUCTS.



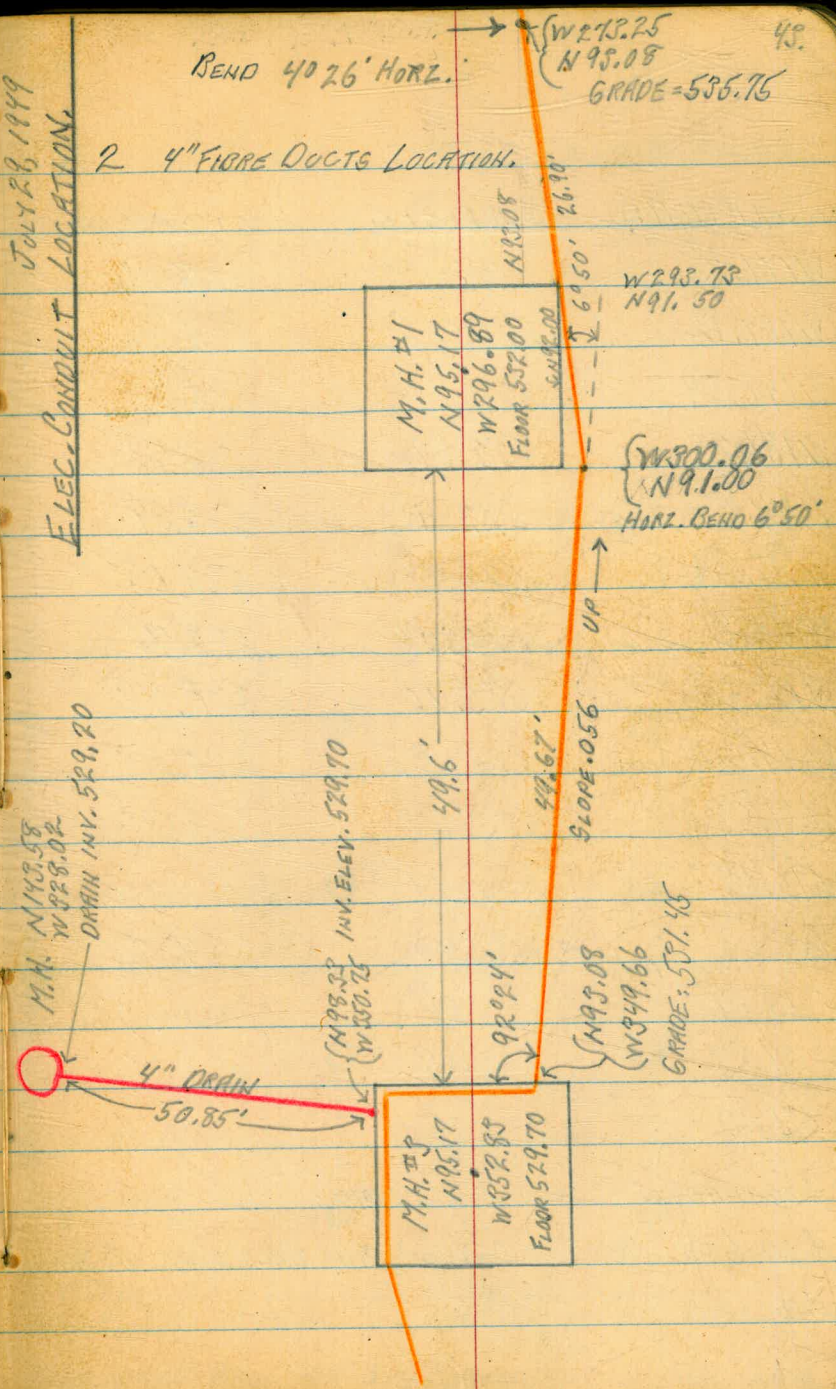
R.M. 4.27 542.82 538.55

SUB GRADE M.H. #1 11.49 531.33

ELECT. CONDUIT;		CUT			
N 93.08	W 849.66	531.45	-6.49	536.39	4.94
N 92.00	W 325.	532.83	-6.49	536.39	3.50
N 91.00	W 300.06	534.23	-6.11	536.171	2.48
N 92.00	W 287.00	534.97	-4.85	537.87	3.0
N 93.08	W 273.25	535.75	-4.85	537.87	2.12

JULY 28, 1949
ELEC. CONDUIT LOCATION.

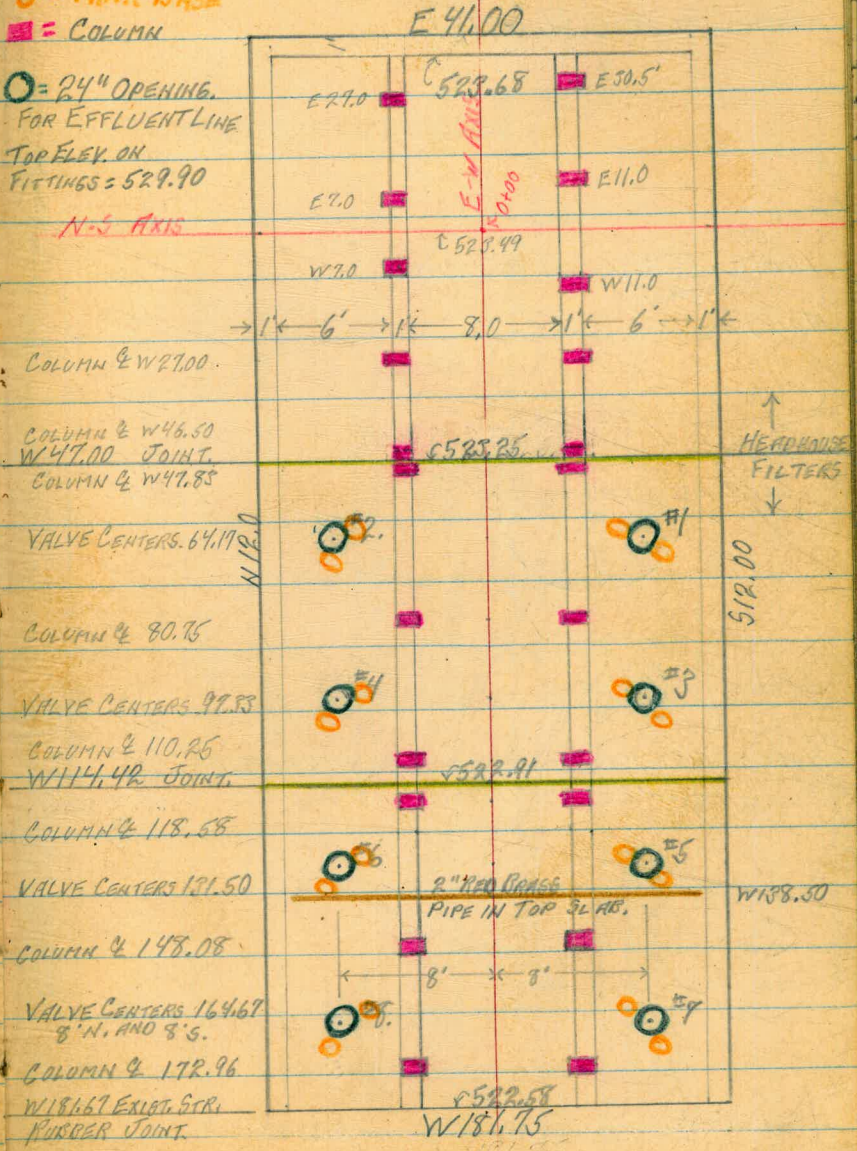
2 4" FLOOR DUCTS LOCATION.



STATION:	FLOOR GRADE	GUTTER GRADE:
W181.75	522.58	528.21
W164.92	522.66	528.29
W148.09	522.74	528.37
W131.26	522.82	528.45
W114.42 JOINT.	522.91	528.54
W 97.57	522.99	528.62
W 80.71	523.08	528.71
W 63.86	523.16	528.79
W 47.00 JOINT.	523.25	528.88
W 31.33	523.33	
W 15.67	523.41	
AXIS	523.49	
E 15.67	523.56	
E 31.33	523.64	
E 41.00	523.68	
SUBTRACT 1 FT. FOR SUB-GRADE:		
ADD 6 FT. FOR TOP CENTER AND WALL HORIZ. JOINT.		
ADJ. + 7.40	546.80	524.40
	529.90	
Under Pad:	11.90	

EFFLUENT CONDUIT, GRADES, COLUMNS, VALVES.

O = TANK BASE
 □ = COLUMN
 ○ = 24" OPENING FOR EFFLUENT LINE TOP ELEV. OR FITTINGS = 529.90



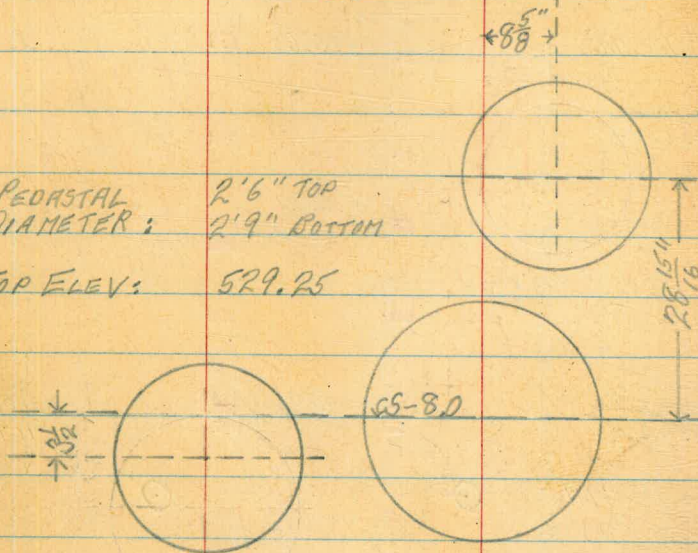
SEE NEXT PAGE FOR TANK PEDASTALS.

EFFLUENT CONDUIT:

POSITION OF PEDASTALS FOR CONSTANT LEVEL TANKS.

(SHOWN ON PAGE 44 AS ○)

PEDASTAL
DIAMETER: 2'6" TOP
 2'9" BOTTOM
TOP ELEV: 529.25



NOTE: SKETCH IS TYPICAL FOR SOUTH SIDE,
NORTH SIDE IS OPPOSITE.

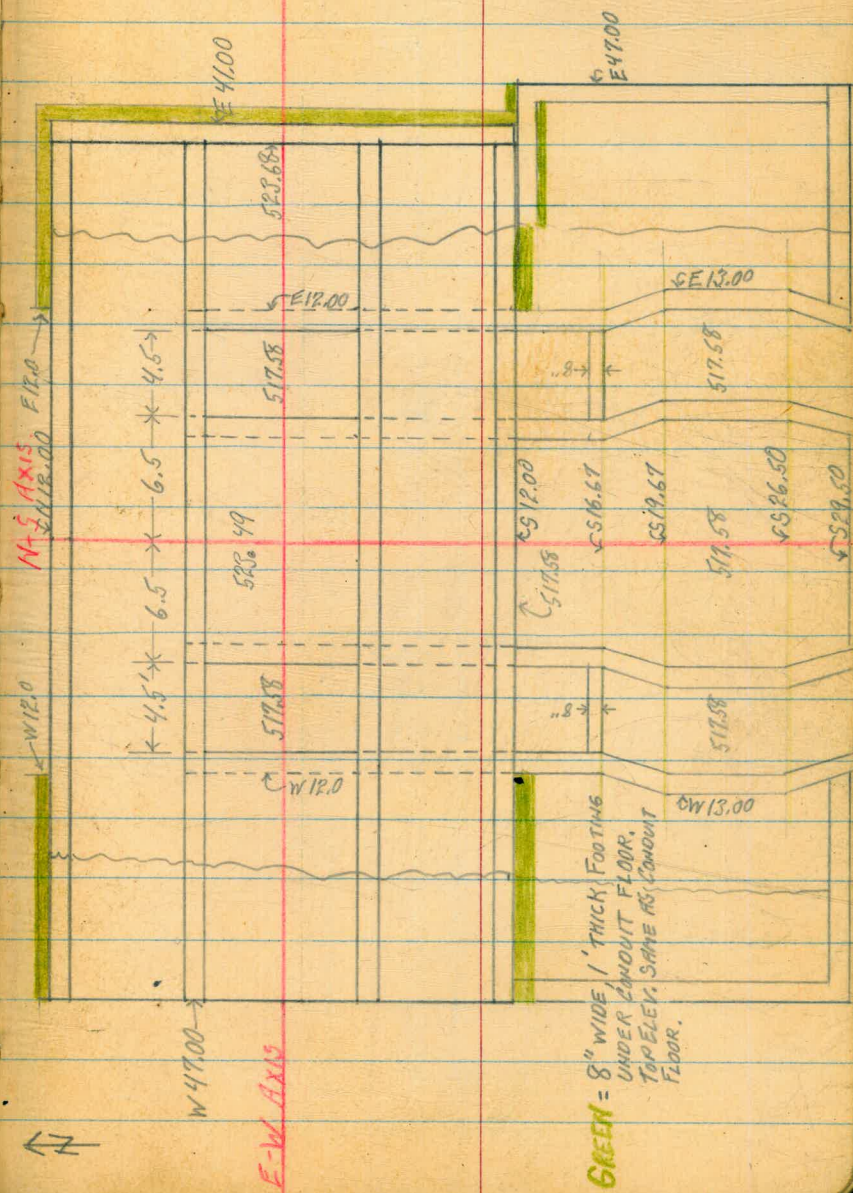
VALVES

AUG. 8, 1949

LEONARD
RAUER,
PAINE
CARVER

45.

HEADHOUSE BASEMENT. EFFLUENT CONDUIT AND ZEOLITE INFLUENT



SETTLING BASIN - WEST WALL, SEC. 10-10 ON 5-6R

550.5
6" 3" 550.00
6"

APPLIES:

FROM 515.17 TO 570.35

545.88 1/2" KEY

CONSTRUCTION

JOINT 558.17

6 1/2" 546.17 1/2" KEY

6 1/2"

554.50

5" 2" 552.50



AUG. 8, 1949 LEONARD RAYNER PAYNE CARVER 46.

SETTLING BASIN - WEST WALL, SEC. 5-5 ON 5-6I.

6" 550.50 6" 550.00
30" 6"

APPLIES FROM:

570.35'

TO: 5143.42

CONSTRUCTION

JOINT AT 5101.17

6 1/2" 546.17 1/2" KEY

E 47.08

6 1/2"

554.50

5" 2" 552.50



LEVELS ON SEWER TO DAM KEEPERS HOUSE.

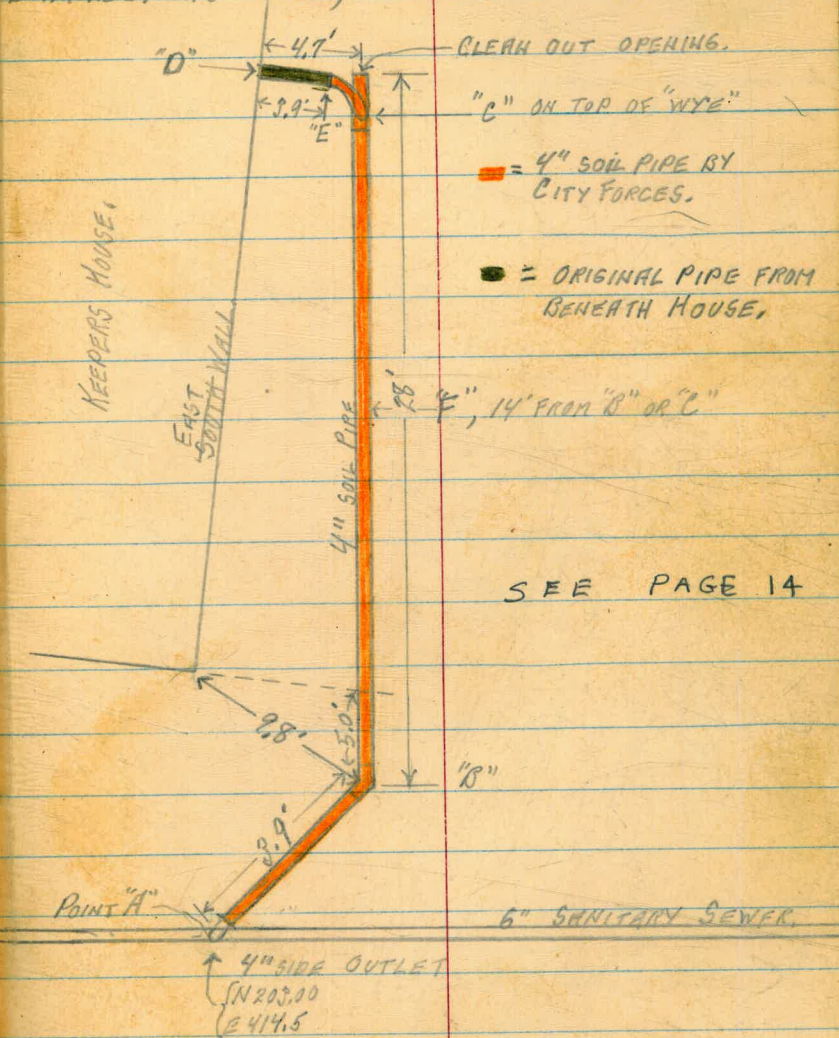
R.M.	+3.89	550.55	546.66	SALT BASIN
Pt. "A"	TOP OF 6" V.C. TILE.	-9.14	541.41	
"B"	" " 4" SOIL PIPE	-6.42	544.13	
"C"	" " " " " "	-5.05	545.50	
"D"	" " " " " "	4.85	546.70	
"F"	" " " " " "	-5.77	544.78	
"E"	" " " " " "	-5.00	545.55	

NOTE: SEE SKETCH OPPOSITE PAGE FOR POINTS OF ELEV'S.

AUG. 4, 1949. LEONARD MAYNE.

47.

DAM KEEPERS HOUSE, 4" SANITARY SEWER CONNECTION.

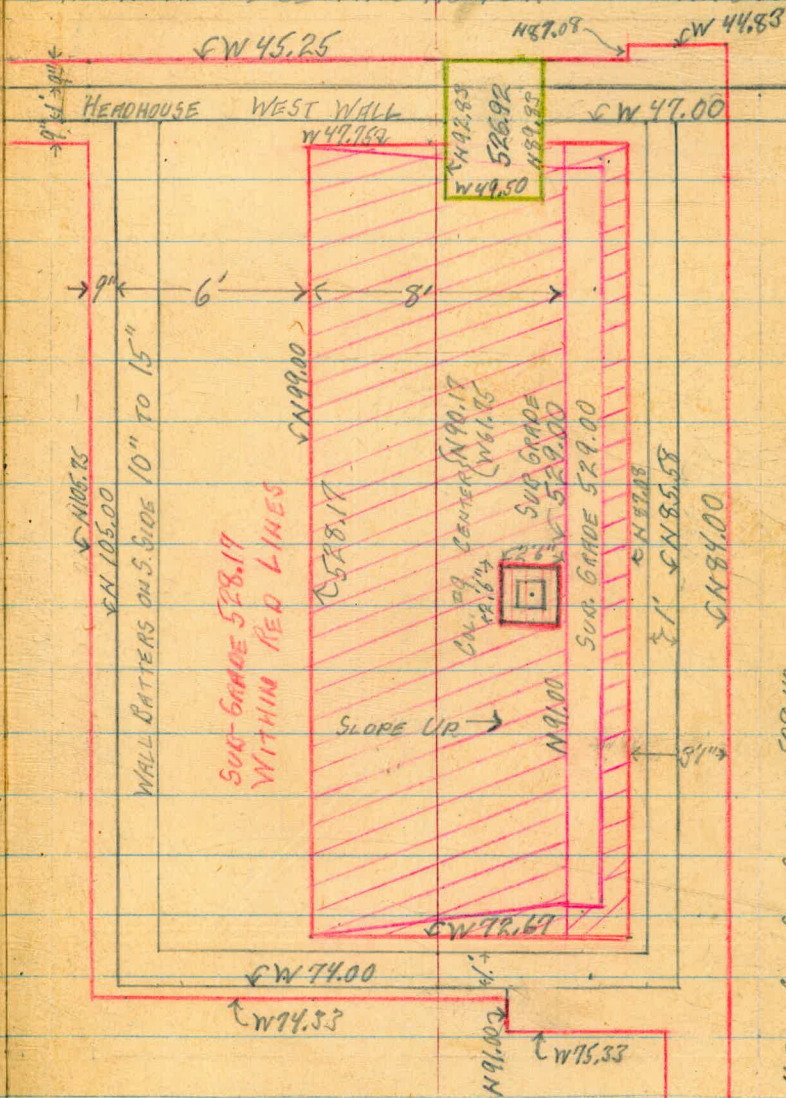


AUG. 15 '49

LEONARD
BAKER
PAINE
CARTER

48.

SUR-GRADE FOR CHEMICAL RECEIVING HOPPER - FOOTINGS.



103.75
86.58
17.17

NOTE: COL. SUR-GRADE = 528.42

Aug. 9, 1949

LEONARD
BAKER
PAYNE
CARVER

49.

STEEL IN E. WALL MIXING BASIN, OFF CENTER

10" TO 20" WALL EN 69.08

Aug. 15. Note: It was decided by Mr. Brown and Mr. Menzies to center the east wall of the mixing basins on Sta. 389.58 E. This will make the steel cover here fall within its 2" minimum coverage in the wall.

1" STEEL BARS ON 5" CENTERS

	DISTANCE FROM STEEL TO WALL
○	.07'
○	.06'
○	.06'
○	.06'
○	.07'
○	.07'
○	.06'
○	.06'
○	.07'
○	.07'
○	.06'
○	.06'
○	.06'
○	.06'
○	.06'
○	.05'
○	.05'
○	.04'

CONSTRUCTION JOINT 461.09

E 390.08 TOE OF WALL

E47.33

CORR.

AS SET

S 18.17

S 18.30

S 24.9.6

S 25.05

Aug. 26, 1949.

LEONARD
PAYNE
CARVER

50.

SETTLING BASIN:

CENTERS OF PILING INSERTS, WEST WALL

E 47.33

CORRECT:

AS SET:

S 29.75

S

S 31.75

S 31.83

S 38.54

S 38.65

S 45.33

S 45.43

S 52.12

S 52.21

S 58.92

S 58.94

S 65.71

S 65.73

S 72.50

S 72.51

4" L.S.
S 79.29

S 79.31

S 86.58

S 86.08

S 93.37

S 92.89

S 100.16

S 99.66

S 106.95

S 106.46

S 113.75

113.33

S 120.54

S 120.05

S 127.33

126.83

S 134.12

S 133.54

S 140.91

S 140.42

S 147.21

S 153.92 L.S.

E 50.83

CORRECT:

AS SET:

S 18.17

S 18.31

S 24.96

S 25.10

S 31.75

S 31.90

S 38.54

S 38.62

S 45.33

S 45.43

S 52.12

S 52.20

S 58.92

S 58.87

S 65.71

S 65.69

S 72.50

S 72.49

S 79.29

S 79.29

S 86.58

S 86.06

S 93.37

S 92.85

S 100.16

S 99.65

S 106.95

S 106.46

S 113.75

113.25
S 113.33

S 120.54

S 120.05

S 127.33

S 126.87

S 134.12

S 133.54

S 140.91

S 140.42

S 147.21

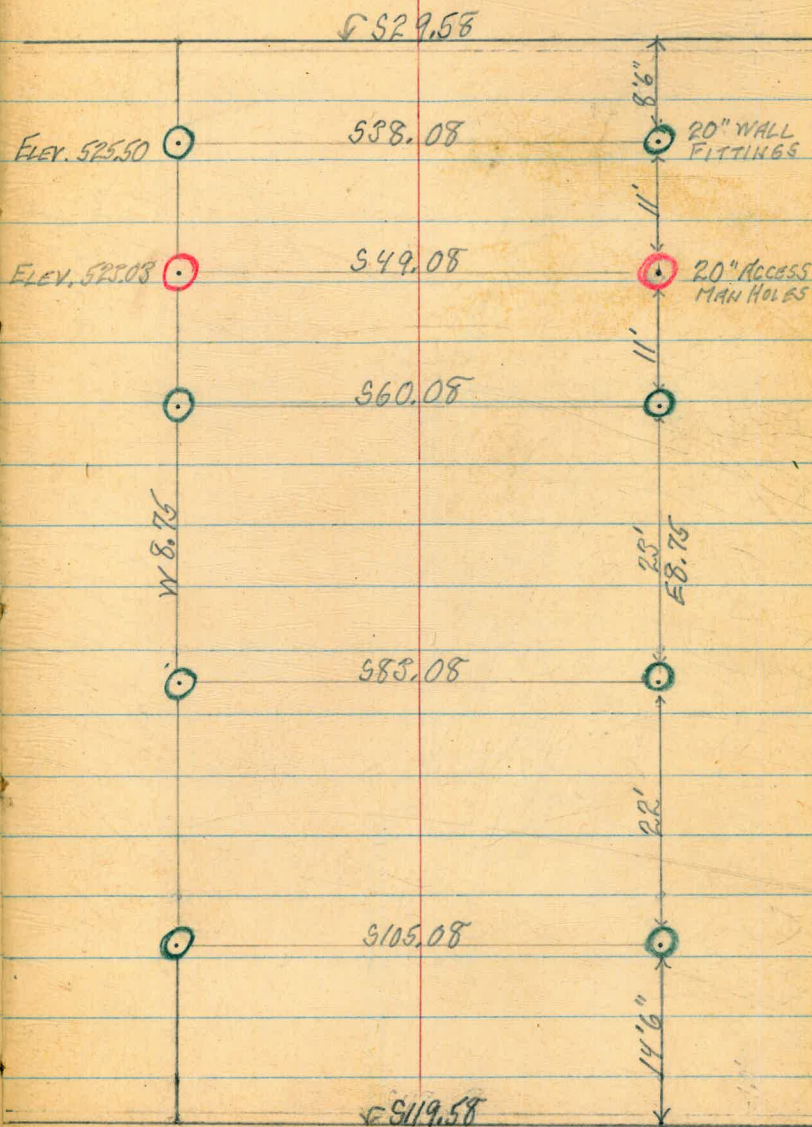
S 150.42

AUG. 25, 1949

LEONARD,
PAYNE
CARVER

51.

FITTINGS IN TOP OF ZEOLITE EFFLUENT.



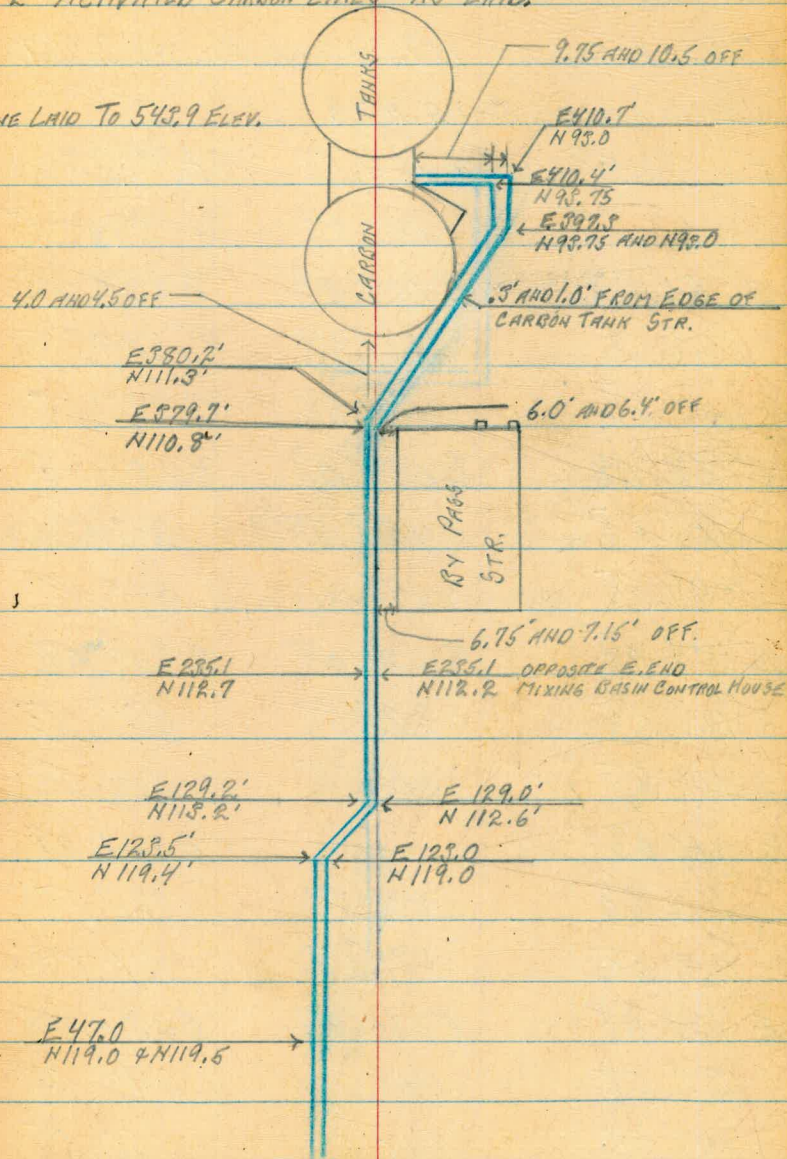
Aug. 24, 1949

LEONARD
PAYNE
CARYER

52.

1/2" ACTIVATED CARBON LINES AS LAID.

LINE LAID TO 543.9 ELEV.



SETTLING BASINS, ANGLE IRON RAILS:

RAILS START AT N4.00 AND END AT S145.42

CENTERS OF RAILS AT:

E 52.58	E 154.58	E 257.58	E 359.58
60.58	+162.58	265.58	367.58
E 65.08	E 167.08	E 270.08	E 372.08
69.58	171.58	274.58	376.58
77.58	179.58	282.58	384.58
E 82.08	E 184.08	E 287.08	
86.58	+188.58	291.58	E 65.08, ETC. = 1/2 OF SUPPORT COLUMNS & STUB WALL.
94.58	196.58	299.58	E 218.58 = 1/2 DIVIDING 12" WALL.
E 99.08	E 201.08	E 304.08	
103.58	205.58	308.58	
111.58	213.58	316.58	
E 116.08	E 218.58	E 321.08	
120.58	223.58	325.58	
128.58	231.58	333.58	
E 133.08	E 236.08	E 338.08	
137.58	240.58	342.58	
145.58	248.58	350.58	
E 150.08	E 253.08	E 355.08	

Aug. 31, 1949

LEONARD
PAYNE H.C.
CARVER, R.C.

GRADE STAKES FOR 6" SANITARY SEWER

B.M. +4.21 542.24 538.03

N 118	W 38.00	535.96		535.96	ACTUAL
SE 21.5'		536.17	-4.75	537.49	C 1.32
SE 43.0'		536.38	-5.48	536.76	C 0.38
SE 64.5'		536.59	-4.68	537.56	C 0.97
N 57.58 E 24.50		536.80	-4.94	537.90	C 0.50
CHECK B.M.			-4.21	538.03	

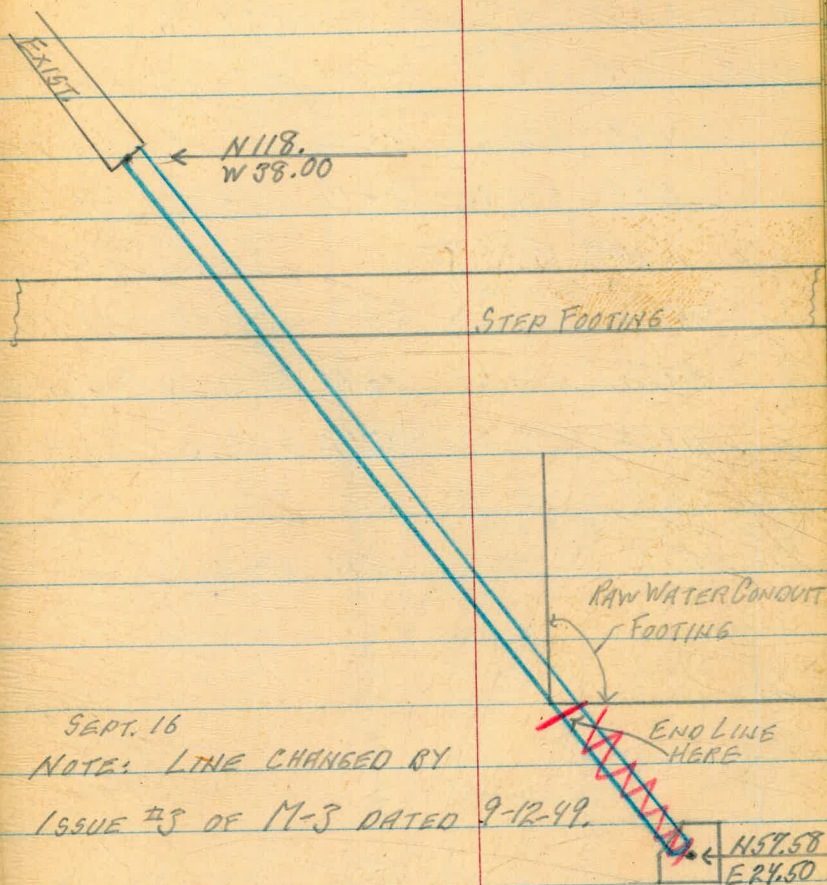
NOTE: LINE IS 86' 3" LONG FROM Q. SUMP TO
END OF EXIST. 8" TILE DRAIN.

Aug. 31, 1949

LEONARD
PAYNE H.C.
CARVER, R.C.

54

SANITARY SEWER UNDER HEADHOUSE



SEPT. 16
NOTE: LINE CHANGED BY
ISSUE #3 OF M-3 DATED 9-12-49.

N 57.58
E 24.50

SEPT. 6, 1949.

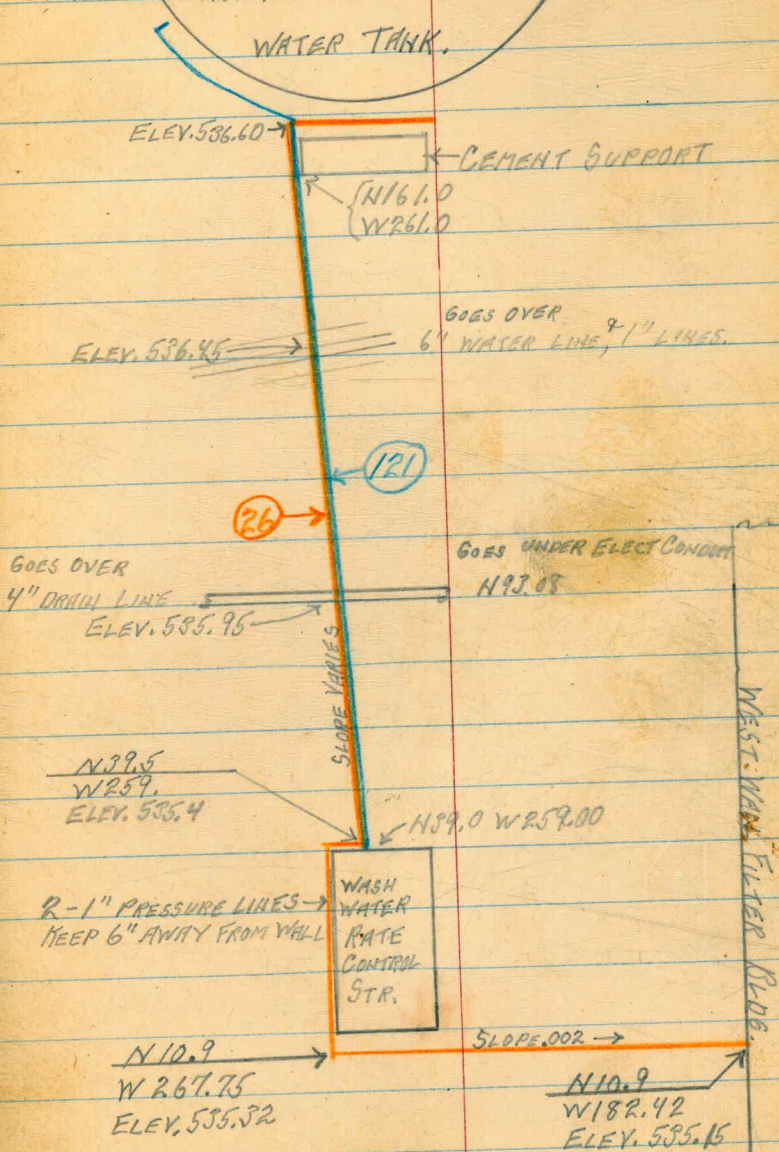
LEONARD, NOTES
DAYER &
PAYNE INC.
CARYER P.C.

56.

CUT STAKES FOR 1" WASH WATER PRESSURE LINE #121,
RIM M.H.

R.M.	+4.17	542.78		538.56		INV. GRADE		INV. ELEV.	EXIST. PIPE
W259	N39	535.40	-7.38	535.40					
	N64	535.65	-4.06	538.67				C 3.02	
	N89	535.90	-4.74	537.99				C 2.09	
	N93 ⁰⁸	535.95						LAYS ON TOP OF 4" DRAIN TILE.	
	N114	536.25	-3.58	539.15				C 2.96	
	N128	536.45	-6.31	536.42				Top 6" WATER LINE	
	N139	536.50	-4.80	537.93				C 1.43	
	N162	536.60	-3.82	538.91				C 2.31	
CHECK R.M.			-4.17	538.56					

POSITION 1" WASH WATER PRESSURE LINE, S.



SEPT. 12, 1949

LEONARD
DAVEY &
PAYNE H.C.
CARVER, P.C.

56.

JAN. 16, 1950

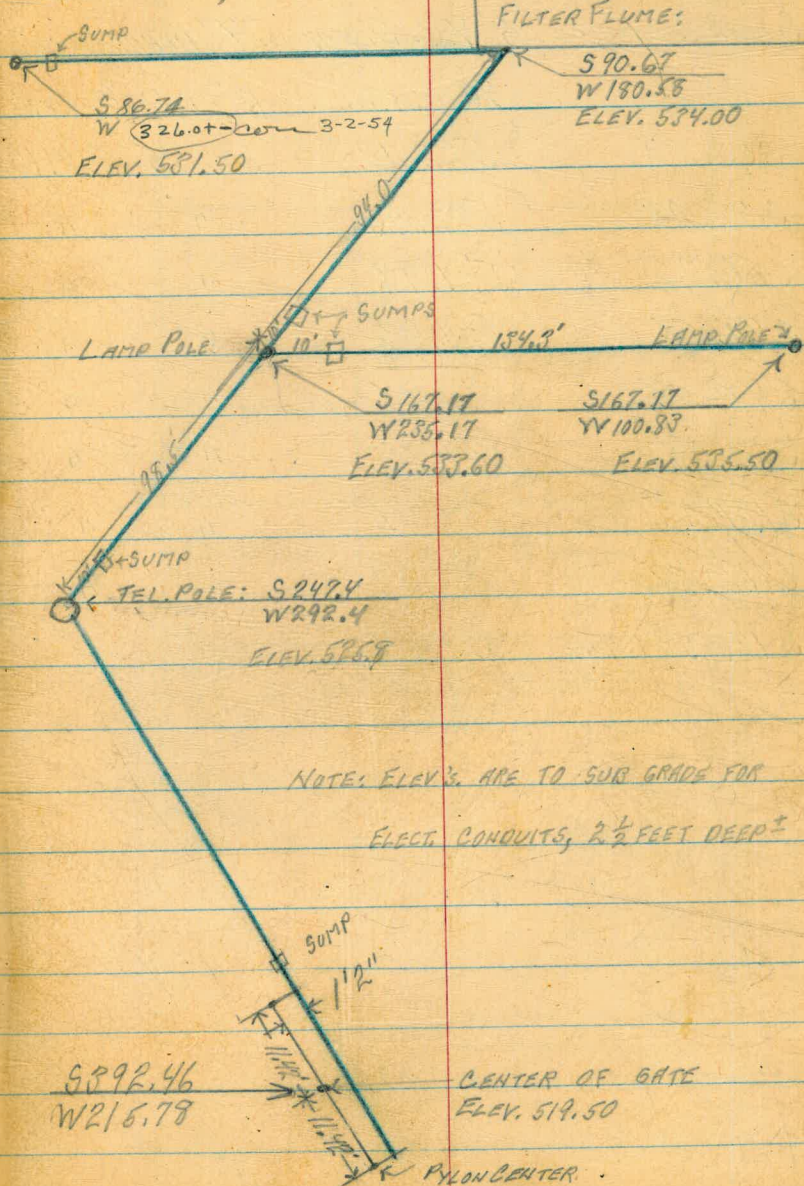
NOTE: FOUR INCH GALVANIZED PIPE, 32 INCHES LONG, SET IN CONCRETE BLOCK 2 FEET SQUARE AND 32 INCHES ± DEEP, WITH TOP AT ELEV. 536.0±, AS A BASE FOR LAMP STANDARD CENTERED AT S167.17, W236.17. BOX WAS CENTERED AROUND POST. *L.P. Road.*

FEB. 3, 1950:

FIRST LAMP STANDARD SET IN 2.0' X 2.0' X 2.5' DEEP CONCRETE BLOCK CENTERED AT S167.17, W100.83, WITH TOP ELEV. AT 538.00. A 6" FINISH SLAB WILL BE ADDED TO BOTH POLE SUPPORTS AFTER CURB IS IN, TO MAKE STANDARDS FLUSH WITH ADJACENT CURB, *L.P. Road.*

NOTE: SEE TIES TO FENCE LINE FOR CONDUITS AS LAID, IN F.B. 742, PAGE 10.

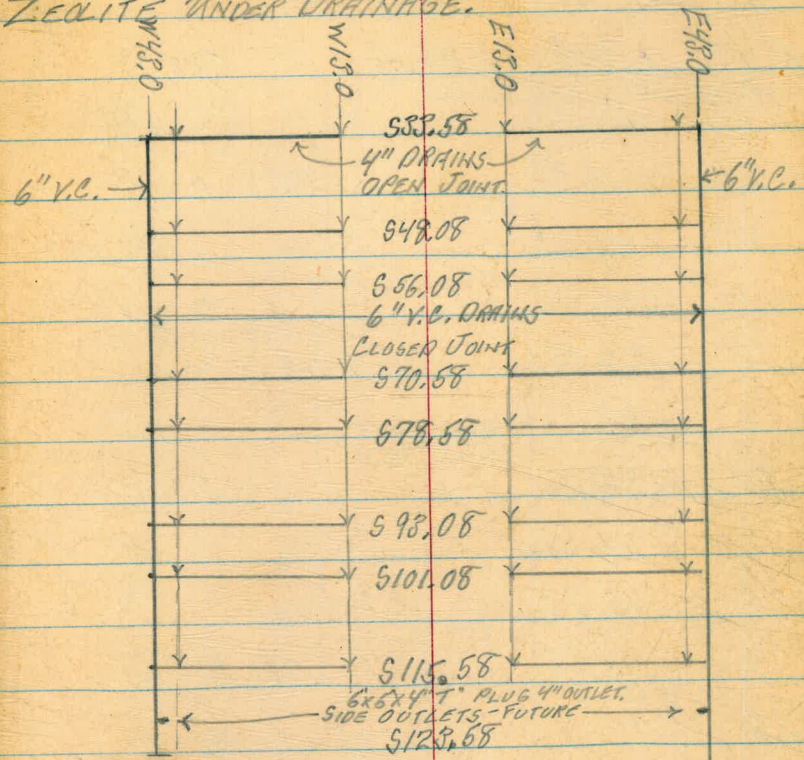
ELEC. CONDUIT, FILTER OLDS TO GATES:



INVERT ELEV.'s FOR DRAINS UNDER ZEOLITE BEDS.

SOUTH STATION:	6" V.C. DRAIN	4" DRAIN-OPEN JOINT	
	45' E. & W.	13' E. & W.	42' E. & W.
533.58	522.10	522.25	522.10
548.08	522.03	"	"
556.08	521.99	"	"
570.58	521.92	"	"
578.58	521.87	"	"
593.08	521.80	"	"
5101.08	521.76	"	"
5115.58	521.69	"	"
5123.58 FUTURE	521.64		

ZEOLITE UNDER DRAINAGE.



5125.8[±] CONNECT TO
EXIST. TILE.
INV. ELEV.

5133.08

5146.08

5160.58

5176.8[±] CONNECT TO
EXIST. 6" V.C. PIPE.
INV. ELEV. 521.46 AS LAID.

OCT. 5, 1949 LEONARD,
PAYNE &

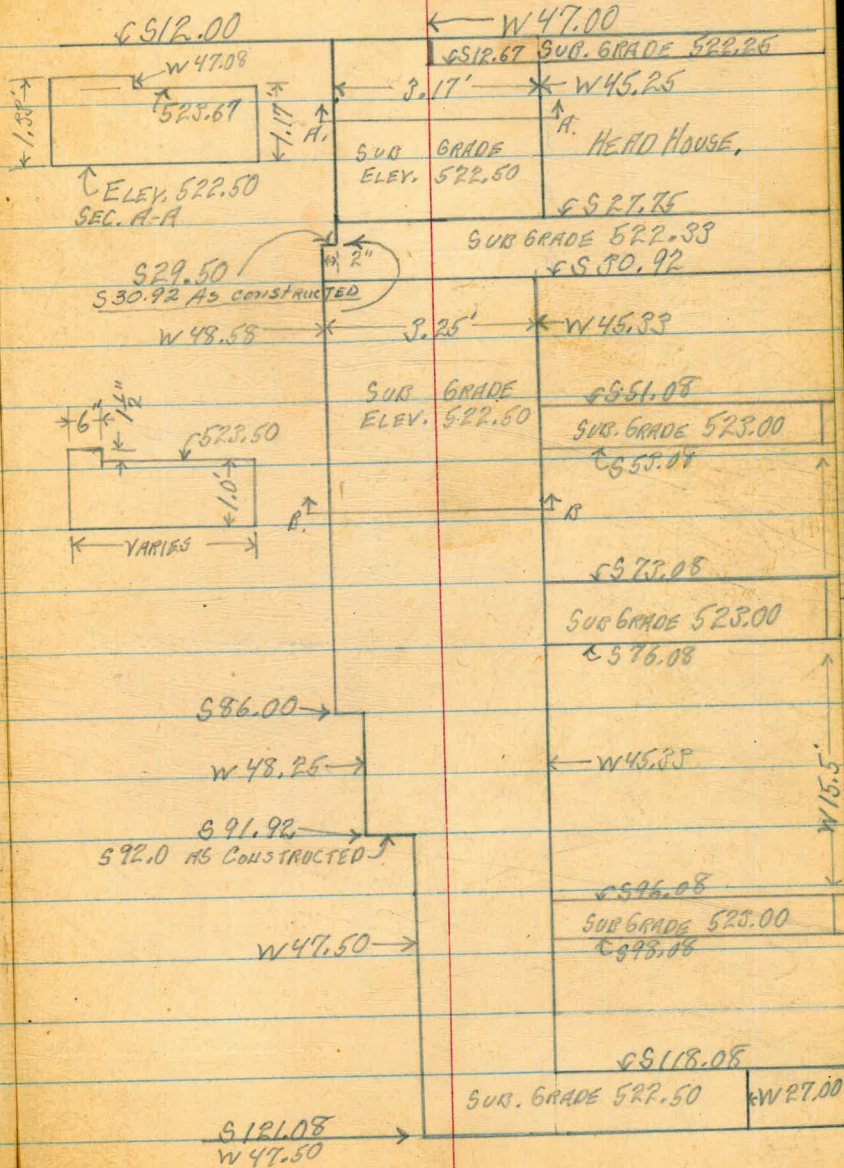
SEPT. 14, 1949.

LEONARD, NOTES
BAKER, T.
PAYNE, H.C.
CARVER, P.C. 58.

CHECK LEVELS ON FOOTING FORMS

FOOTING UNDER WEST WALL ZEO-LITE STR.

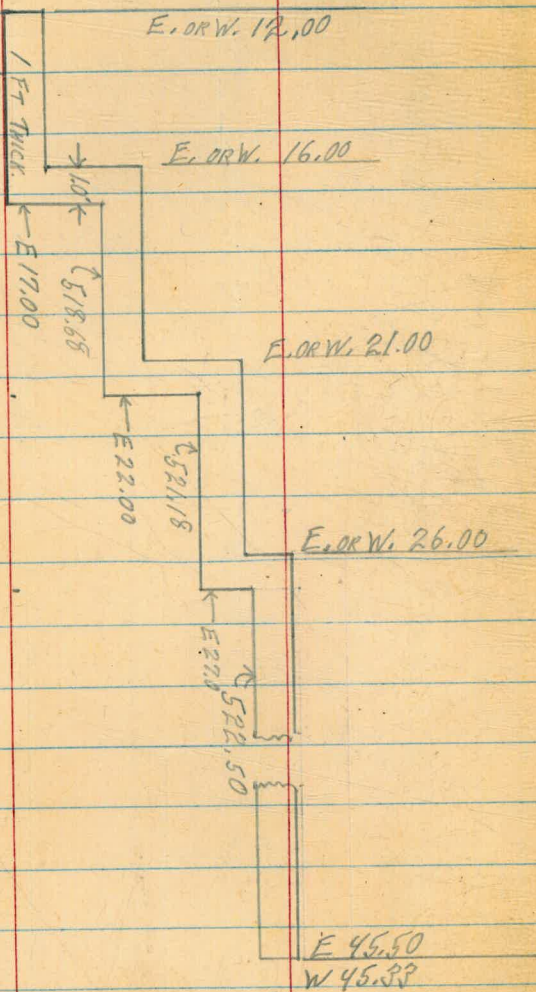
B. 17.	+5.76	528.66	522.90
S 31.0	W45.33	-5.16	523.50
"	W48.58	-5.03	" .63
S 40	W45.33	-5.15	" .61
"	W48.58	-5.02	" .64
S 50	W45.33	-5.16	" .50
"	W48.58	-5.04	" .62
S 60	W45.33	-5.15	" .51
"	W48.58	-5.03	" .63
S 70	W45.33	-5.16	" .50
"	W48.58	-5.04	" .62
S 86	W45.33	-5.17	" .49
"	W48.50	-5.04	" .62
S 92	W45.33	-5.16	" .50
"	W48.25	-5.03	" .63
S 110	W45.33	-5.17	" .49
"	W47.50	-5.04	" .62
S 121.08	W45.33	-5.16	" .50
"	W47.50	-5.03	" .63



SEPT. 14, '49. LEONARD.

FOOTING UNDER SOUTH WALL OF ZEOLITE BLDG.

PROFILE OF EAST SIDE LOOKING NORTH, WEST SIDE OPPOSITE.
 FOOTING IS 3.0' WIDE, CENTERED ON S119.58

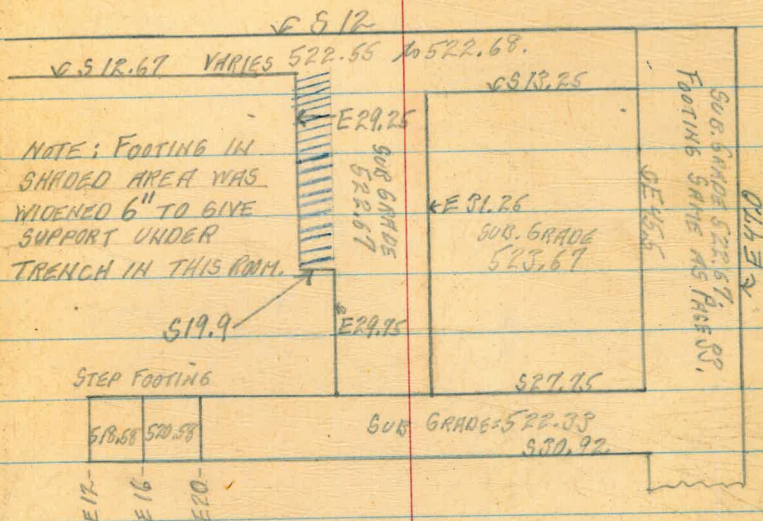


SEPT. 16, 1949.

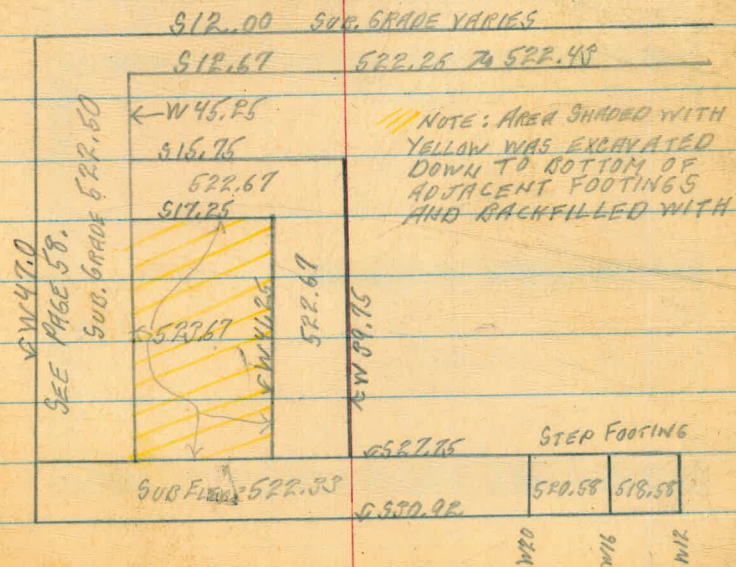
LEONARD - BAKER
 MAYNE AC
 CARVER, P.C.

59.

HEAD HOUSE;
 FOOTINGS - URINE STORAGE ROOMS:

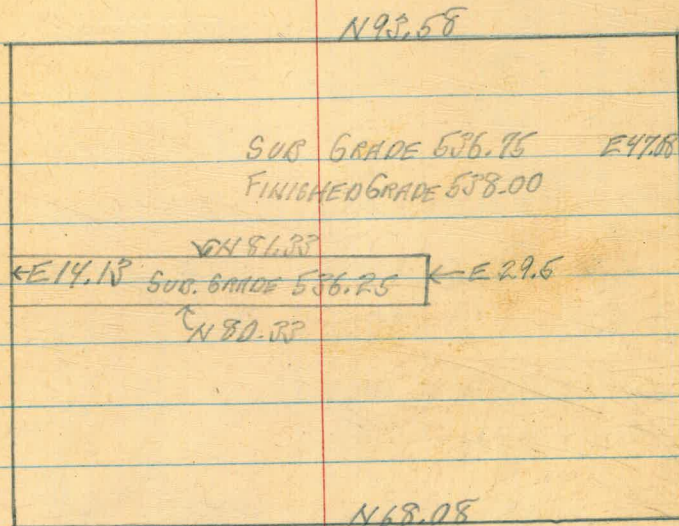


URINE STORAGE EAST SIDE OF BASEMENT.

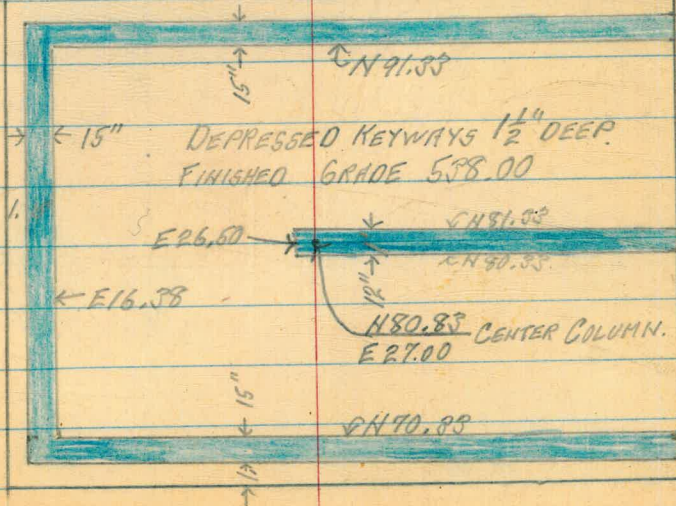


HEAD-HOUSE,
FOOTING UNDER RAW-WATER CONDUIT.

EXCAVATION :



WALL KEYWAY IN RAW WATER CONDUIT SLAB.



70.33
2.25
68.08

WARM
CLEAR

Sept. 19, 1949

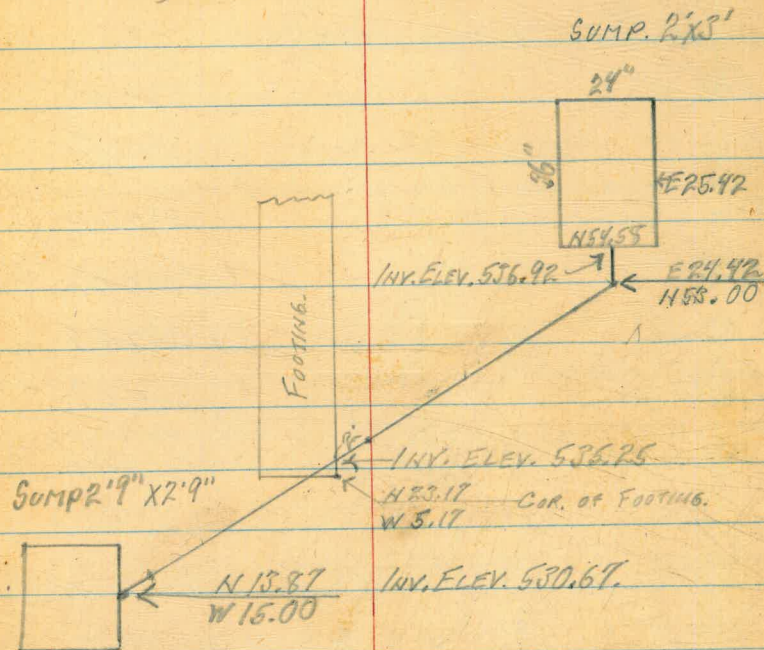
LEONARD
BAKER, TX NOTES
PAYNE, H.C.
CARVER, RC

61

HEADHOUSE, 4" DRAIN

	GRADE	ROD	ELEV. CUT,	
B.M. on Con. Slab + 4.48	542.56		538.03	
0+00 (4)	536.92	-4.94	537.57	00.65
0+18 (5)	536.09	-4.83	537.68	01.59
0+37 (3)	535.25	-5.12	537.39	02.14
0+49 (3)	534.69	-5.23	537.28	02.59
0+49 (3)	530.82 ^{.67}	-5.23	537.28	06.46 ^{.61}
OK on B.M.		-4.48	538.03	OK

HEADHOUSE, 4" DRAIN



NOTE:-: NOT AS BUILT
SEE CHANGE #3 DRWG
M-3 SPEC #11

com
3-31-1954

Sept. 26, 1949

LEONARD
BAKER
PAYNE
CARVER

WEEP HOLE OPENINGS WEST WALL

OF SETTLING BASIN: E 47.08

S 14.08

S 33.87

S 53.71

S 73.50

S 93.35

S 112.63

ELEV.

524.69

524.69

524.67

524.72

524.69

524.67

ZEOLITE INFLUENT CONDUIT, 6" DRAIN, LOCATED
AT E 3.5, S 49.08, WITH $\frac{1}{2}$ " ELEV. AT 528.42(Z-10) IN ZEOLITE BEDS E 15.00 W 15.00
SLUICE GATES, 12" X 12" SQUARE. BOTTOM ELEV. 531.44
E: S 46.33, S 68.33, S 91.33 and S 113.33(C-2) IN CARBONATION CHAMBER
SLUICE GATES, 12" X 12" SQUARE. BOTTOM ELEV. 531.42.S 11.00: $\frac{1}{2}$ " AT: E 4.67 AND W 4.67.

(Z-9) 4-WAY VALVE, FLOAT MECH., SLEEVE FOR. Nov. 28, 1949

S 37.08; S 59.08; S 82.08; $\frac{1}{2}$ " S 104.08 $\frac{1}{2}$ " ELEV. 535.67

SEPT. 27 '49

LEONARD
BAKER
PAYNE
CARVER.

62.

ZEOLITE PIPE GALLERY;
PIPE OPENINGS IN WALLS AT 11.0'E. & 11.0"W.

NAME & SOUTH STATIONS:

 $\frac{1}{2}$ " ELEV.

14" WASTE BRINE LINE

524.67

S 43.08; 65.08; 88.08; 110.08

20" INFLUENT.

529.25

S 35.08; 57.08; 80.08; 102.08.

DILUTE BRINE INFLUENT
14" BRINE & RINSE WATER INFLUENT. 532.00

S 41.08; 63.08; 86.08; 108.08.

24" EFFLUENT.

532.25

S 38.08; 60.08; 83.08; 105.08.

PROTRUDES 6" OUTSIDE OF WALL.
4" C.I. EJECTOR PIPE, 5' LONG, CAPPED. 535.00

✓ S 47.58; 69.58; 92.58; 114.58

✓ 2 $\frac{1}{2}$ " HOSE CONNECTION LINE.

537.75

S 46.08; 68.08; 91.08; 113.08

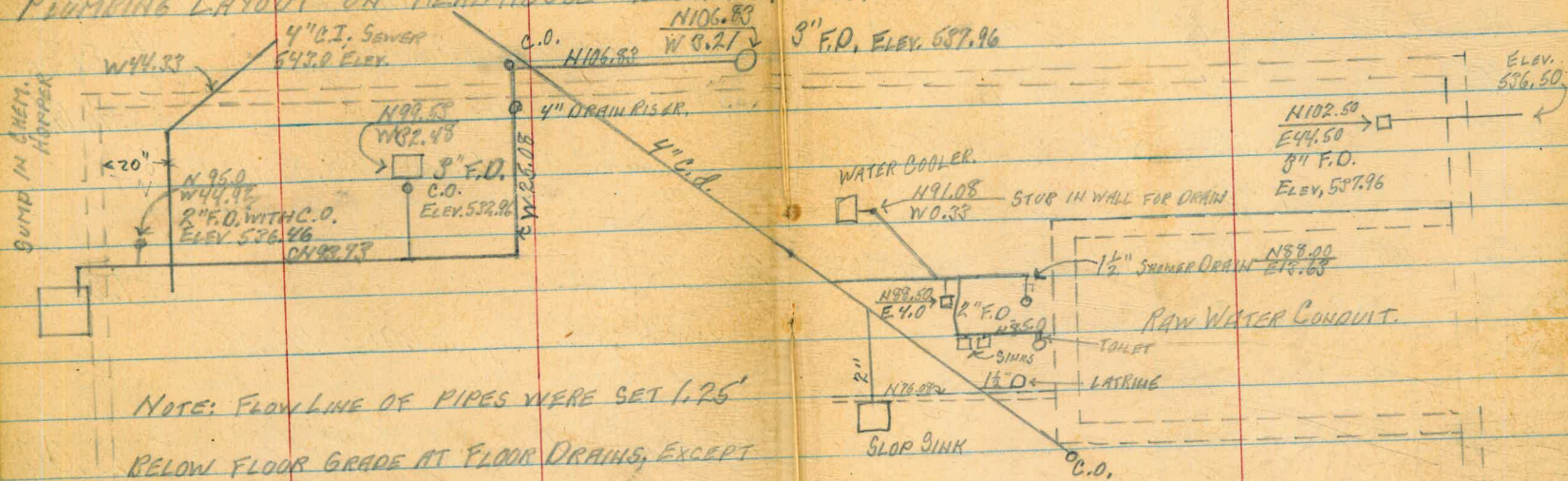
~~4-WAY VALVE, FLOAT MECH., SLEEVE. 535.67~~~~S 44.08; 66.08; 89.08; 111.08~~~~* 1/2" BRINE LINE, OCT. 19, 1949. 47~~

SEPT. 29, 1949.

LEONARD
BAKER
PAYING
CARVER

63.

PUMPING LAYOUT ON HEAD HOUSE BASEMENT FLOOR.

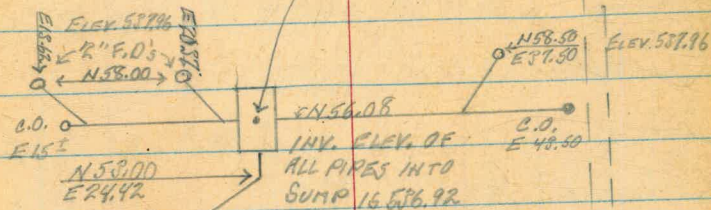


NOTE: FLOW LINE OF PIPES WERE SET 1.25'
BELOW FLOOR GRADE AT FLOOR DRAINS, EXCEPT

AS NOTED BELOW.

- N 56.08
- E 15.00 INV. ELEV. 537.10
- N 56.08
- E 43.60 INV. ELEV. 537.29

CENTER OF 2' X 3' SUMP N 56.08
E 24.42



ELEV. 634.69 AT TOP OF VERT. SECTION.

N 13.87
W 15.00 ELEV. 530.67 INTO SUMP

Oct. 6 '49.

LEONARD
CARVER

DRAINAGE DITCH, W. END REG. RES. - CONTD.

R.M.	+3.81	520.91	517.10	HUR. AT D+83
		INV. 60.	HUR. ELEV.	CUT
0+45		512.74	515.79	3.05
0+57		512.26	515.67	3.41
0+69		511.78	515.56	3.78
0+83.5 END.		511.22	508.50	FILL 2.72

SEPT. 30 '49.

LEONARD
PAYNE.

64.

REGULATING RESERVOIR:
CATCH BASIN AND DRAIN - WEST END.

R.M.	+2.02	534.47	532.45	TOP CUT-RESS ROCK S.W. COR.
		INVERT GRADE	HUR. ELEV.	CUT.
EAST R.P. CATCH BASIN		526.83	530.00	3.20
WEST R.P. CATCH BASIN.		"	529.78	2.95
0+00 PIPE		526.70	529.50	2.80
0+9 "		525.22	529.82	4.60
0+17 "		521.22	526.12	4.90
T.P.			521.51	ROCK
Hid. +3.79		525.30		
0+25		517.22	520.59	3.37
0+33 PIPE	END OF	513.22	517.10	3.88
T.P.			520.91	ROCK
Hid. +12.75		533.66		
CHECK R.M.			532.45 = 532.45	

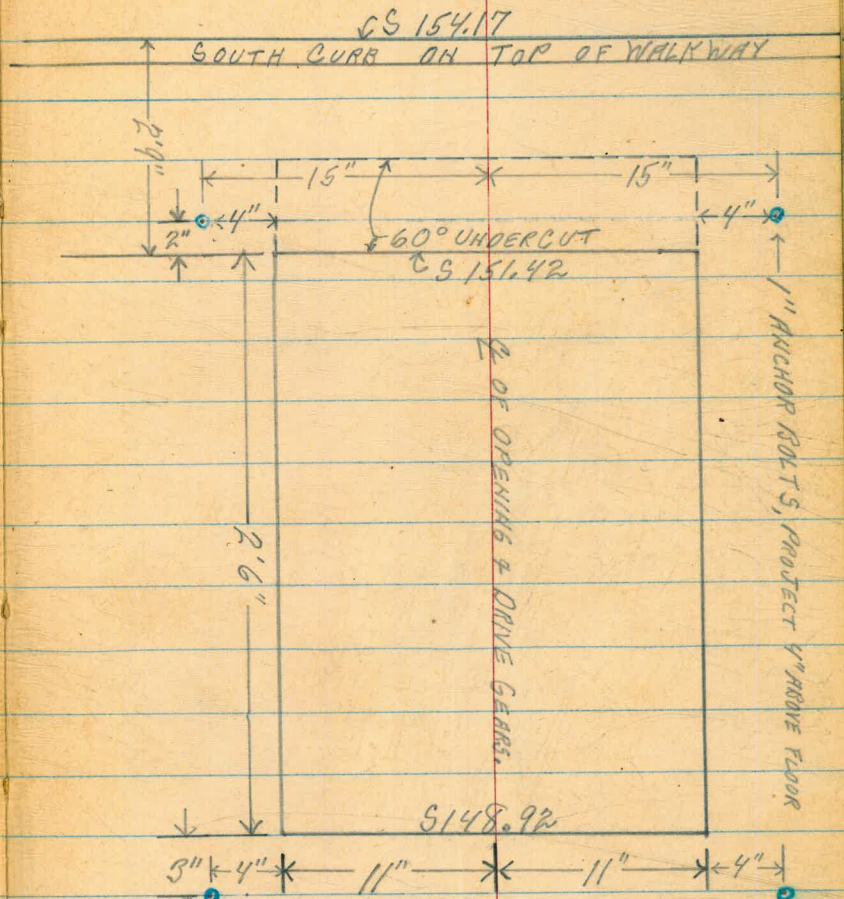
NOTE: BASIN AND DRAIN STAKED OUT IN
ACCORDANCE WITH SUPPLEMENT TO W.O. 773
DATED JULY 26, 1949.

SEPT. 30 '49. LEONARD

65.

SETTLING BASINGS

OPENINGS IN CATWALK FOR DRIVE CHAINS.



Q OF
OPENINGS AT: E 65.08; 99.08; 133.08;
167.08; 201.08; 236.08; 270.08;
304.08; 338.08; AND 372.08.

NOTE SEE F.B. 742, PAGE 5 FOR ADDITIONAL BOLT PATTERN.

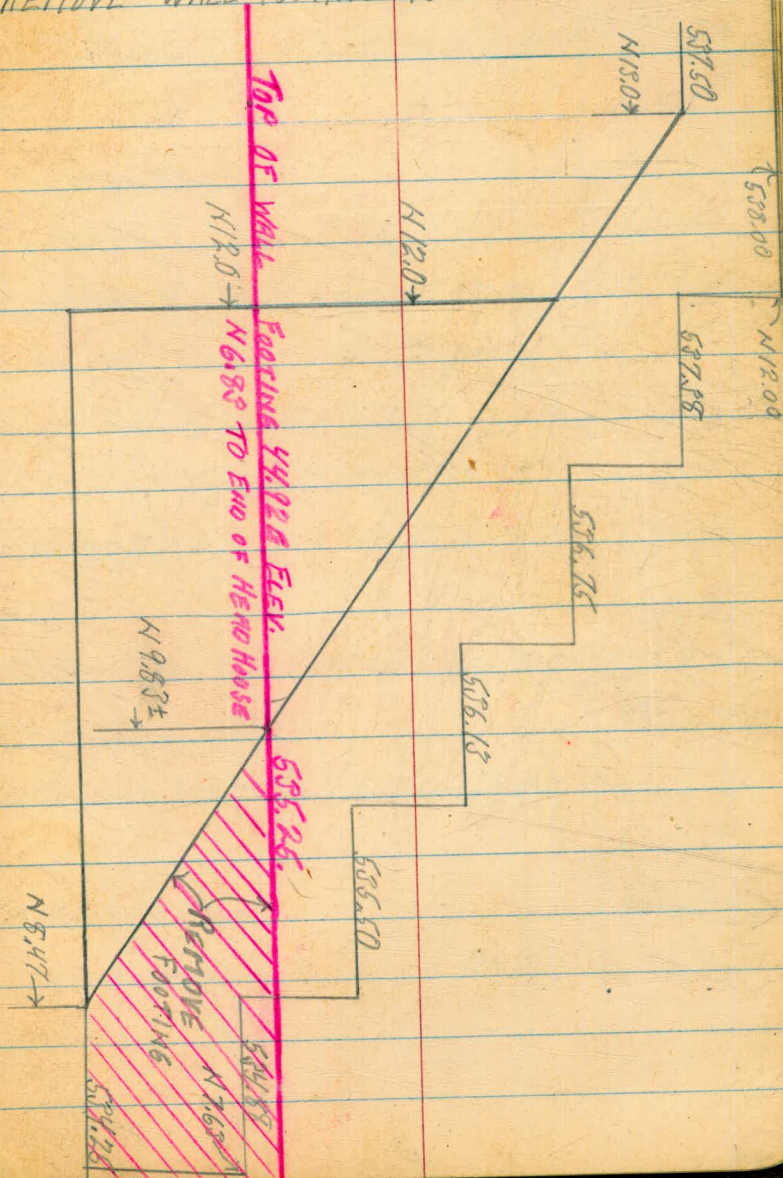
SEPT. 30 '49.

LEONARD
RAKER
PAYNE
CARVER

65.

HEAD HOUSE: STAIRS #10.

REMOVE WALL FOOTING TO PLACE STAIRS.



FILTERS:

PIPING IN N. AND S. WALLS OF PIPE GALLERY:

NAME AND WEST. STATIONS:	ELEV.
36" WASH WATER; 64.17; 97.33; 131.50; 164.67	539.65
30" INFLUENT; " " " "	544.67
16" SURFACE WASH; " " " "	548.08
4" DRAIN; 62.30; 95.46; 129.63; 162.80	537.00
2 1/2" WASH WATER; 78.33; 111.50; 145.67; 150.50	548.08
SLEEVES FOR 1" COPPER TUBES TO SLUICE	549.0 ±
GATES: 69.75 x 69.98; 102.91 x 103.14;	
137.05 x 137.31; 170.25 x 170.48	
STRAINER, 3/4" PIPE; 71.25; 104.71; 139.08; 172.25	546.00

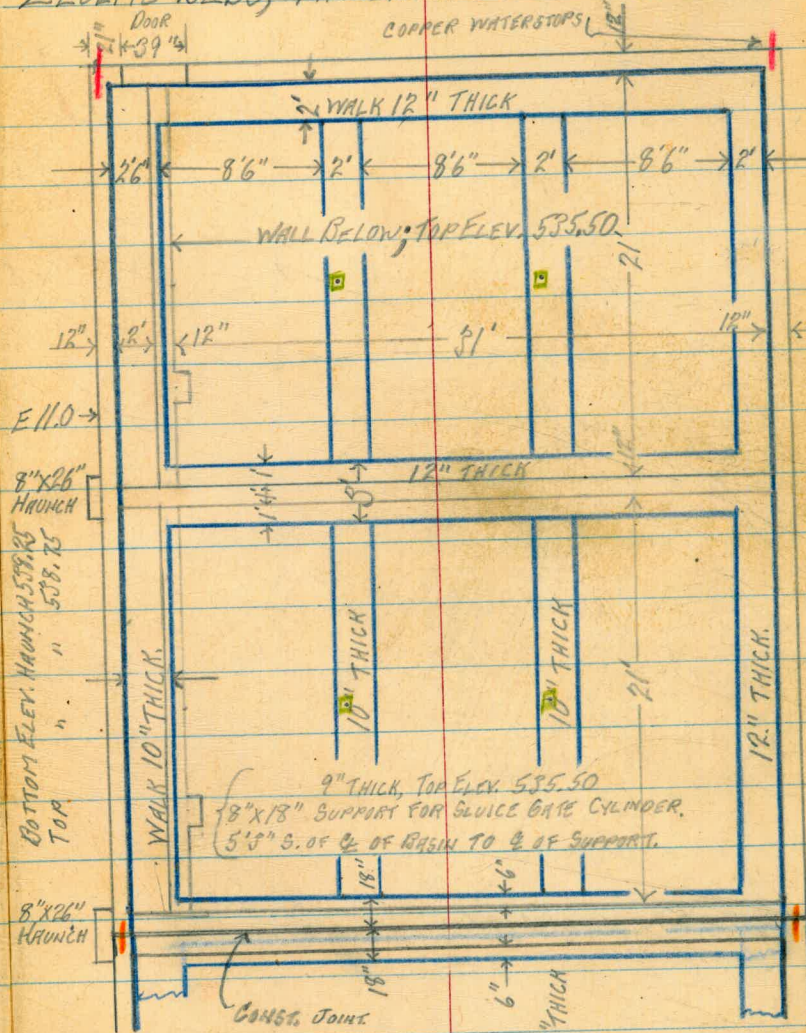
BRACKETS FOR FLOAT VALVES: BED #6 ONLY.

TOP OF BRACKET #1:	546.60
CENTER LINE BRACKET #1: N 11.0; W 134.83	57.07
TOP OF BRACKET #2:	530.33
CENTER LINE BRACKET #2: N 11.0; W 136.17	55.73

OCT. 10, '49 LEONARD.

68.

ZEOLITE BEDS, PATTERN AT 539.00 ELEV.



- = COPPER WATERSTOPS
- = RUBBER
- = WALKWAYS, TOP ELEV. 539.00
SEE S-41 FOR RAILING INSERTS.
- PIPE HANGER SUPPORTS, SEE M-31

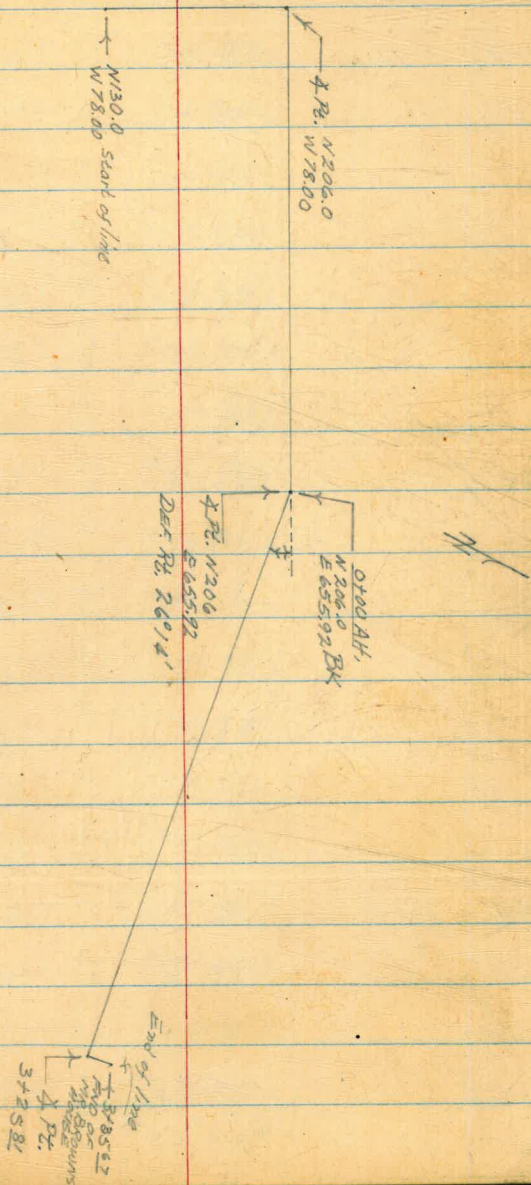
Clear
warm

Oct. 11, 1949

LEONARD
BAKER T + NOTES
DAUNE H.C.
CARVER, R.C.

69.

GAS LINE FROM FILTER PLANT TO HOUSE



OCT 16 1949

BAKER
PAYNE
CARVER,BULGE IN WEST WALL OF CONDUIT IN
HEAD HOUSE

AT ELEV. OF

W41 N12	541.75	1.01
" "	539.75	1.00
" "	537.75	1.00
" "	535.75	0.99
" "	533.75	0.99
	531.75	0.99
	529.75	1.01
W41 N10	541.75	1.01
	539.75	1.00
	37.75	0.98
	35.75	0.97
	33.75	0.96
	31.75	0.97
	29.75	1.01
W41 N8	541.75	1.01
	39.75	0.99
	37.75	0.96
	35.75	0.95
	33.75	0.95

70.

W41 N8	531.75	0.96
	29.75	1.00
W41 N6	541.75	1.01
	39.75	0.99
	37.75	0.96
	35.75	0.95
	33.75	0.94
	31.75	0.95
	29.75	0.98
W41 N4	541.75	1.00
	39.75	0.97
	37.75	0.95
	35.75	0.94
	33.75	0.93
	31.75	0.93
	29.75	0.97
W41 N2	541.75	1.00
	39.75	0.97
	37.75	0.96
	35.75	0.94

W41 H2

533.75

0.94

32.75

0.95

29.75

0.98

W41 N00

541.75

0.99

39.75

HOLE IN WALL

37.75

0.96

35.75

0.96

33.75

0.95

31.75

0.96

29.75

0.99

W41 S2

541.75

0.99

39.75

0.99

37.75

0.96

35.75

0.96

33.75

0.95

31.75

0.96

29.75

0.99

W41 S4

541.75

0.99

37.75

0.97

37.75

0.96

W41 84

535.75

.95

33.75

0.95

31.75

0.96

29.75

0.98

W41 S6

541.75

0.99

39.75

0.98

37.75

0.97

35.75

0.96

33.75

0.96

32.75

0.98

29.75

1.00

W41 S8

541.75

1.00

39.75

0.99

37.75

0.97

35.75

0.97

33.75

0.97

31.75

0.98

29.75

1.01

W41 810

541.75

1.01

Clear
Cool

Oct. 14, 1949

LEONARD
BAKER, T & NOTES
PAYNE, H.O.
CARVER, R.O.

77.

ELEVS. OF Q. FOOTING BETWEEN

BASINS 1 & 2, E 218.58

H.I

B.M. + 5.75

539.10

533.35

ROD

ELEV.

W 91.510

539.75

0.99

5143.0

NATURAL GROUND

10.06

529.04

537.75

0.98

"

FOOTING GRADE

13.11

525.99

35.75

0.98

5140.00

NATURAL GROUND

9.96

529.14

33.75

0.98

FOOTING GRADE

12.87

526.23

31.75

1.00

5135.00

NATURAL GRADE

9.71

529.39

29.75

1.02

FOOTING GRADE

11.95

527.15

W 41.512

541.75

1.02

5130.00

NATURAL GROUND

9.05

530.05

39.75

1.01

FOOTING GRADE

11.19

527.91

37.75

1.00

5125.00

NATURAL GROUND

8.70

530.40

35.75

1.00

FOOTING GRADE

10.73

528.37

33.75

0.99

5120.00

NATURAL GROUND

8.25

530.85

31.75

1.00

FOOTING GRADE

10.23

528.87

29.75

1.01

5115.00

NATURAL GROUND

8.06

531.04

NOTE: TRANSIT AT W 42, PARALLEL TO

N-S AXIS, READING OFFSETS TO

FACE OF WALL.

L.R.

FOOTING GRADE

10.06

529.04

5110.00

NATURAL GROUND

8.09

530.01

FOOTING GRADE

10.02

538.08

5105.00

NATURAL GROUND

8.12

530.98

FOOTING GRADE

10.00

529.10

BAKER
TRAINING
CARVER

78

ELEV'S OF FOOTING BETWEEN

BASINS 142, E 218.58

B.M. +3.93

H.I.
538.94

535.01

3100	T 539.10	NATURAL GROUND	7.91	531.19
		FOOTING GRADE	9.95	529.15
CHECK BM			5.75	533.35

5100	NATURAL GR.	-7.84	531.10
	FOOTING GR.	-9.55	529.39
595	NATURAL GR.	-7.73	531.21

NOTE: FOOTING GRADE IS SubGrade
NATURAL GROUND IS THE
THE POINT WHERE THE
FILL MEETS ORIGINAL GROUND.

590	NATURAL GR.	-7.42	531.52
	FOOTING GR.	-9.44	529.50
585	NATURAL GR.	-7.16	531.78

Sept. 17, 49

ELEV'S OF CLASS "A" CEMENT: TOP OF

B.M. on Conc. +5.89 H.I. 539.24

E 218.58 S100 Rod ELEV. 533.35

" S110 AVERAGE ELY. -7.84 531.40

" S120 OF POUR: -7.85 531.39

" S130 531.32 -8.01 531.23

" S140 -7.94 531.30

" S143 -8.02 531.22

CK-B.M. -5.89 533.35

580	NATURAL GR.	-6.89	532.05
	FOOTING GR.	-8.58	530.30
575	NATURAL GR.	-6.74	532.20

570	NATURAL GR.	-4.17	532.77
	FOOTING GR.	-8.14	530.78
565	NATURAL GR.	-6.22	532.72

560	NATURAL GR.	-7.43	531.31
556.80	NATURAL GR.	4.04	532.90

Elevs of FOOTINGS CONT.

	H.I. = 538.94	ROD	ELEV.
S56.80	FOOTING GR	-7.20	531.74
CK. B.M.	ADJ. CK.	-1.34	537.60 = 537.59

SEE NOTE ON PAGE 73.

CK. B.M.

OCT. 17, 1949.

BAKER
PAYNE
CARVER

74

FILTER GALLERY

SET GRADES FOR 30" & 16" PIPE

FILTER #J - ALSO CHECK ELEV. OF 36" PIPE

B.M. ON DAM +7.25 543.64 536.39

SET B.M. ON BOX -2.17 541.47

+8.71 H.I. 550.18

	GRADE	ROD	
30" PIPE #7	544.67	-5.51	544.67
16" PIPE #7	548.08	-2.10	548.08
CHECK ELEV. TOP ELEV.			541.08
36" PIPE #7		-9.105	541.07
30" PIPE #5	544.67	-5.51	544.67
16" PIPE #5	548.08	-2.10	548.08
CHECK ELEV. TOP ELEV.			541.11
36" PIPE #5		-9.07	541.11
30" #3	544.67	5.51	544.67
16" #3	548.08	2.10	548.08
CHECK ELEV. TOP ELEV.			541.14
36" #3		-9.04	541.14
30" #1	544.67	-5.51	544.67
16" #1	548.08	-2.10	548.08
CHECK ELEV. TOP ELEV.			541.10
36" #1		-9.08	541.10
36" PIPE #2	544.67	-5.51	544.67
16" PIPE #2	548.08	-2.10	548.08
CHECK ELEV. TOP ELEV.			541.12
36" PIPE #2		-9.065	541.11

OCT. 31, 1949.

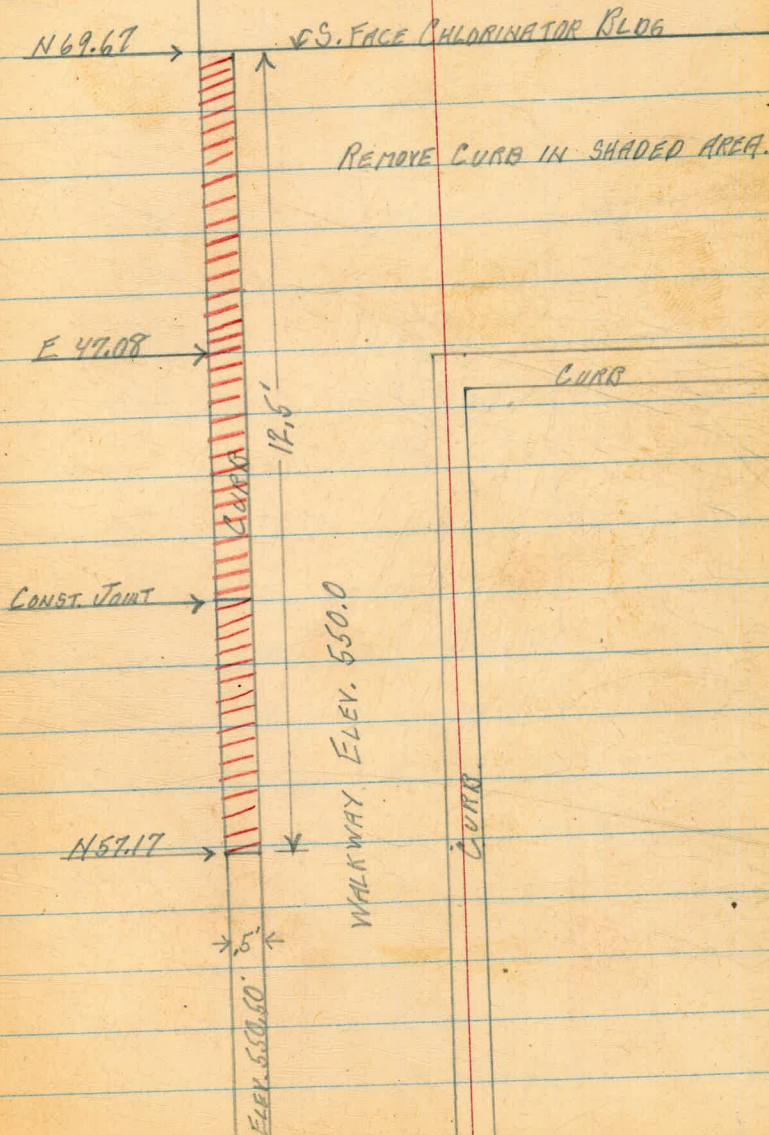
LEONARD
BAKER
PAYNE
CARRIER

75

Cont 30" 16" & 36" PIPE

MIXING BASINS, REMOVE CURB.

	H.I. 550.18		
	GRADE	ROD	ELEV.
30" PIPE #4	544.67	-5.51	544.67
16" PIPE #4	548.06	-2.10	548.08
CHECK ELEV.	TOP ELEV.		
36" PIPE #4		-9.07	541.11
30" PIPE #4	544.67	-5.51	544.67
16" PIPE #4	548.08	-2.10	548.08
CHECK ELEV.	TOP ELEV.		
36" PIPE #4		-9.04	541.14
30" PIPE #8	544.67	-5.51	544.67
16" PIPE #8	548.08	-2.10	548.08
CHECK ELEV.	TOP ELEV.		
36" PIPE #8		-9.07	541.11
CK. B.M.		-8.71	541.47



Nov. 17, 1949

LEONARD A
CARVER, Rod.

76.

SETTLING BASINS
ADDITIONAL EXCAVATION UNDER E. WALL FOOTINGS.

R.M. +1.90	539.49		537.59
E390	S18 TO S20 [±] POCKET	-6.5	533.0
"	S37 START CUT	-6.1	533.4
	S40	-6.2	533.3
	S45	-6.1	533.4
	S50	-6.3	533.2
	S55	-6.6	532.9
	S60 END OF CUT	-6.2	533.3

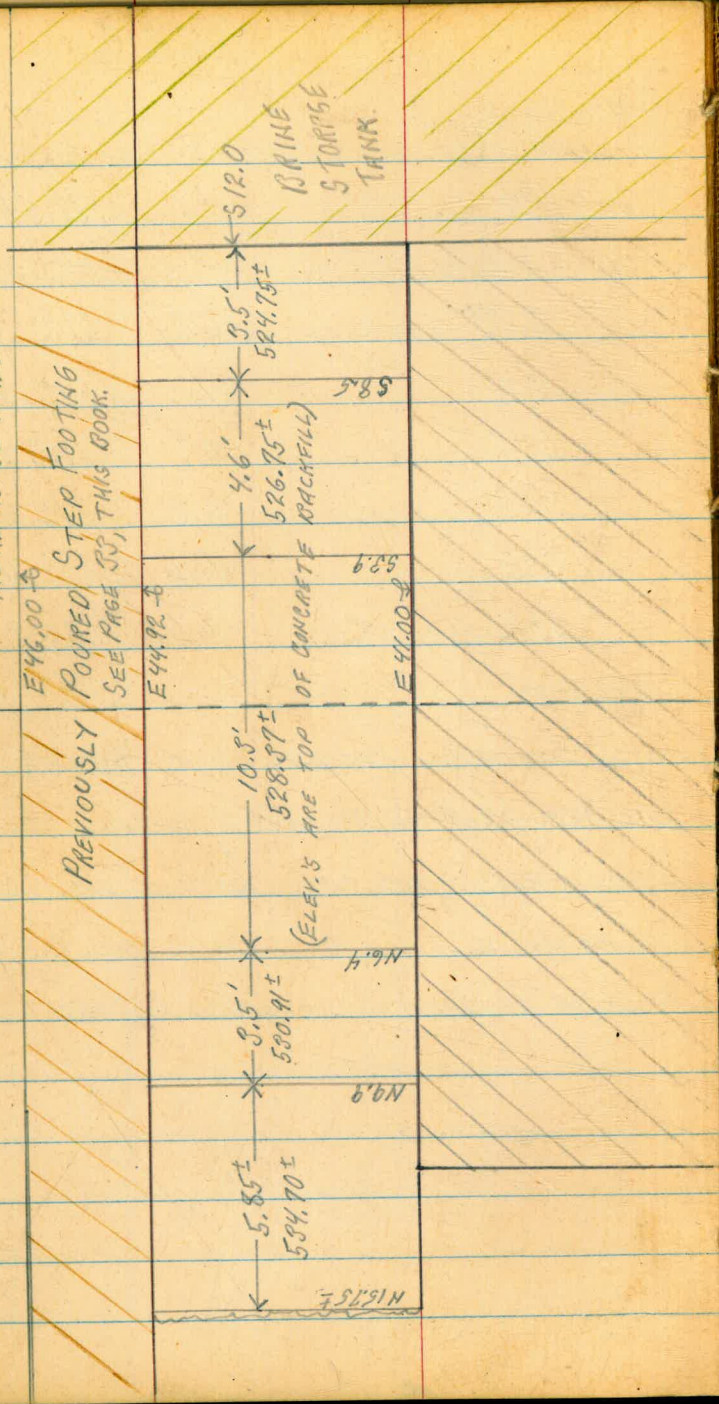
CHECK R.M.

NOTE: ELEVATIONS DETERMINED BY DRIVING STEEL
BAR THRU EDGE OF CONCRETE BACKFILL TO HARDPAN
BELOW BACKFILL AND TAKING SHOTS ON BAR. SPOT AT
S18 TO S20 IS CIRCULAR IN SHAPE AND 2.5' DIA. [±]
REMAINDER OF BACKFILL IS APPROX 3.0' WIDE.

NOV. 29, 1949
DANER - PAYNE.

BACKFILL AT EAST END OF CONDUIT AS POURED,
E-W AXIS

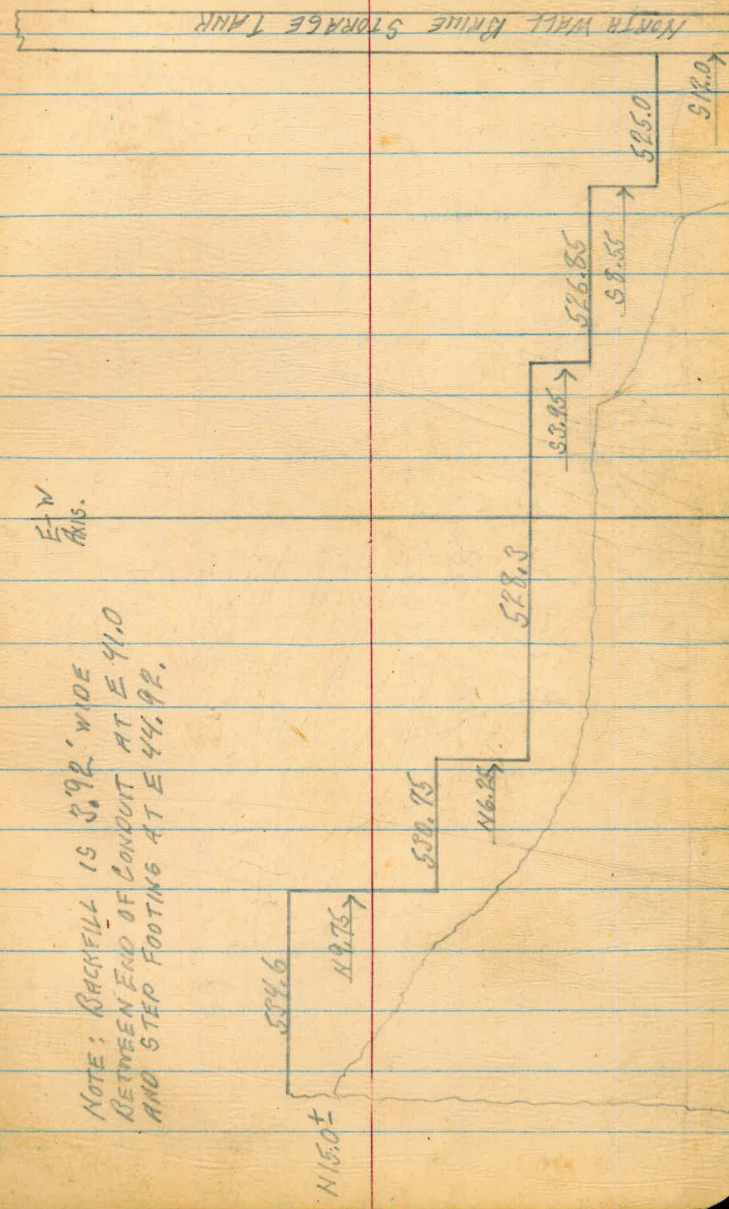
HEAD HOUSE WALL



PREVIOUSLY
POURED STEP FOOTING
SEE PAGE 33, THIS BOOK.

NOV. 21, 1949 LEONARD A. CARYER, Rod. 77.

HEADHOUSE, PROPOSED
CONCRETE BACKFILL AT E. END CONDUIT



NOTE: BACKFILL IS 3.92' WIDE
BETWEEN END OF CONDUIT AT E. 41.0
AND STEP FOOTING AT E. 44.92.

Nov. 28, 1948

BAKER - MAYNE.

BACKFILL AT EAST END OF CONDUIT AS POURED.

E-W
AXIS

HEAD HOUSE WELL

37	38.08		
40	19.78		
39	<u>18.30</u>	121.58	
23		21.93	
36		<u>99.65</u>	
22	38.08	121.58	
6 191	7.35	28.73	
121.56	<u>15.93</u>	<u>92.85</u>	
100	38.08	121.58	
21 59	19.13	<u>35.52</u>	
7.42	<u>42.21</u>	86.06	
7.29	38.08	121.58	
14.71	20.86	<u>42.29</u>	
	<u>58.94</u>	79.29	
	38.08	121.58	
	27.65	<u>49.09</u>	
	<u>65.73</u>	72.99	
	38.08	121.58	
	39.93	<u>55.89</u>	
	<u>72.51</u>	65.69	
	38.08	38.08	121.58
	41.23	41.59	62.71
	<u>79.31</u>	<u>99.66</u>	<u>58.87</u>
	38.08	38.08	
49	59.71		
86	<u>92.89</u>		

NOV. 28, 1948
DANKER - PAYNE.

BACKFILL AT EAST END OF CONDUIT AS POURED.

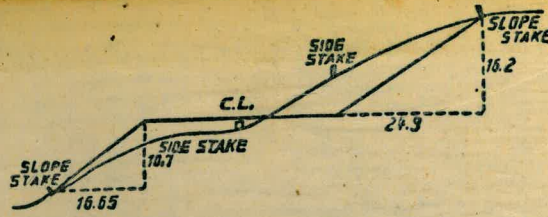
E-W
S-N

Wagon House - West

538.03 + 4.194 <hr/> 542.224 - 4.21 <hr/> 538.014	538.03 4.067 <hr/> 542.097 - 4.090 <hr/> 538.007
---	--

538.03 + 4.197 <hr/> 542.227 - 4.212 <hr/> 538.015	538.03 + 4.196 <hr/> 542.226 - 4.212 <hr/> 538.014
--	--

549.82 <hr/> 541.35 <hr/> 8.07 68.33 <hr/> 46.16 <hr/> 22.17 15.65 <hr/> 37.82 <hr/> 15.65 <hr/> 53.47	147.93 <hr/> 100.83 <hr/> 91.07 46.16 <hr/> 30.51 <hr/> 15.65 30.51 <hr/> 14.86 <hr/> 15.65
---	---



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

	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
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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