Sht. 17

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

PLAN AND PROFILE OF
STATE HIGHWAY

In Los Angeles County, between Piru Creek and Gorman

Scales { Plan: 1 In. = 100 Ft.
Profile: Hor. 1 In. = 100 Ft. Vert. 1 In. = 20 Ft.

being the detail plans of a portion of the route for the State highway adopted by the California Highway Commission Dec. 19, 1929)

INDEX OF SHEETS

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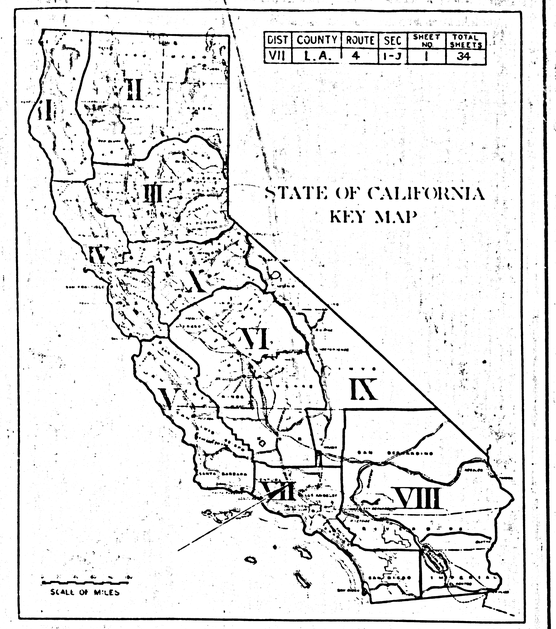
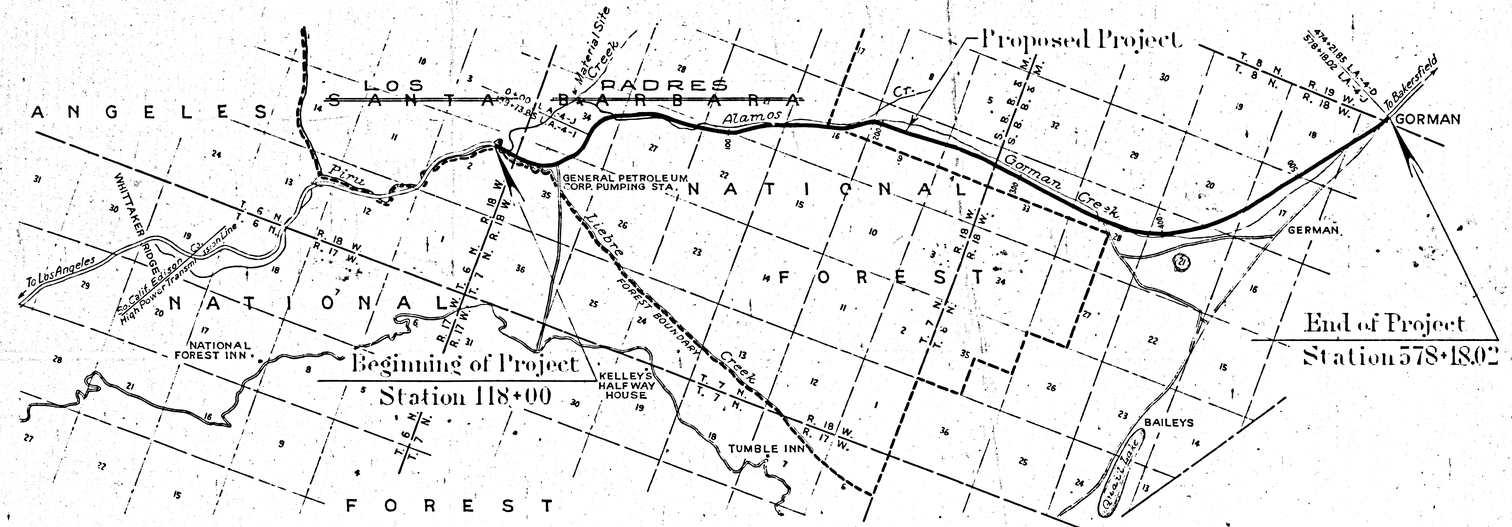
1-102 " " L.A.-4-J
1-8 Mass Diagram

DIST	COUNTY	ROUTE	SEC	SHEET NO	TOTAL SHEETS
VII	L.A.	4	1-J	1	34





CONVENTIONAL SIGNS

County Line		Culverts	
City or Town Limits		Drop Inlet	
Township Line		Trolley Pole	
Section Line		Power Pole	
Grant Line	Rancho	Power Tower	
Fence or Guard Rail		Telephone or Telegraph Pole	
Defenced Property		Marsh	
Right of Way Line			
Base or Survey Line		Ledge	
Traveled Way		Hedge	
Railway Tracks			
Bank or Retaining Wall			
Rainbow Wall			
Levee			

Scale 0 5 10000'

Net length of Project = 65,999 feet = 12.50 miles

May 23, 1931
D. S. Cortelyou
District Engineer

Approved May 25, 1931
State Highway Engineer

Walter H. Jamison
Director of Public Works

F.M. 10561
A1 OF A28

2	CAL.	13-D	1931	3	3

DIST.	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
VII	L.A.	4	I	3	34

D.W. Whitelegge
Dist. Eng. Dist. VII

Approved May 25, 1931.

Fred Gumm
Engineer, Surveys and Plans.

T. 6 N. R. 18 W. S.B.B.&M.

SEC. 2

~~SANTA BARBARA~~ NATIONAL FOREST

~~LOS PADRES~~

Sta. 120+18 to 123+08 Bridge not a part of this Contract.

BEGINNING OF PROJECT STA. 118+00.00

F.M. 10238

N 57°09'W 36500'

Piru Creek

120+05.79 B.C.

Sta. 126+82 to 129+50
CONSTRUCT SLOPE PAVING
P.C.C. = 611 C.Y. STEEL = 18,330#

Sta. 128+61 to 132+21 Bridge not a part of this Contract.

130+26.81 E.C.

Δ = 58°30'
R = 1000
T = 560.03
L = 1021.02
E = 146.14

Sta. 131+30 to 133+63
CONSTRUCT SLOPE PAVING
P.C.C. = 512 C.Y. STEEL = 15,360#

Sta. 134+30 to 141+70
CONSTRUCT SLOPE PAVING ON RT.
P.C.C. = 1258 C.Y. STEEL = 37,740#

N 1° 21' E 603.16'

GOLDEN STATE HIGHWAY

SLOPE PAVING

CHANNEL CHANGE

136+29.78 B.C.

Sta 137+50 PLACE 24"x170' C.M.P.
AZ. 90° BUILD 1-L H.W.
S-69, C-170, E.&B.-251 C.Y.

Δ = 6° 43'
R = 10,000
T = 586.81
L = 1172.28'
E = 17.20

So. Calif. Edison Tower

Sta. 142+40 to 144+15
Construct Slope Paving
P.C.C. = 364 C.Y. Steel = 10920#

Power Line

TOWNSHIP LINE

SLOPE PAVING

APPROX 66' C.M.P.

Sta. 120+18 to 123+08 Bridge not a part of this Contract but approaches to be graded.

Sta. 128+61 to 132+21 Bridge not a part of this Contract but approaches and slope paving to be constructed.

B.M. No. 17
Elev. 2208.38
Knob on Small Boulder
155' Rt. Sta. 118+10

B.M. No. 18
Elev. 2212.37
Knob on Large Boulder
240' Lt. Sta. 123+10

B.M. No. 19
Elev. 2226.93
Cut Spike in 12" Sycamore
116' Rt. Sta. 131+10

B.M. No. 20
Elev. 2239.87
Cut Spike in 24" Cottonwood
52' Lt. Sta. 139+40

Width of Roadbed = 38' (Variable)
All Fill Slopes 1.3:1
Profile Grade is 2" Above Finished Crown

Cut Slopes ½:1

Cut Slopes ½:1

Beginning of Project Sta. 118+00

+1.76 %

BRIDGE

APPROX HIGH WATER

HIGH WATER MARK

+0.16%

Grade of Channel Change on Lt.

Sta. on ℄ C.C.

+1.67 %

Grade of Channel Change on Rt.

1000' V.C.

		118	9	120	1	2	3	4	5	6	7	8	9	130	1	2	3	4	5	6	7	8	9	140	1	2	143
Sta		2242.65	2244.61	2246.37	2248.13	2249.89	2251.65	2253.41	2255.17	2256.93	2258.69	2260.45	2262.22	2263.97	2265.73	2267.49	2269.25	2271.01	2272.77	2274.53	2276.29	2277.19	2278.15	2279.15	2280.20	2281.30	2282.45	2283.65	2284.90	2286.19	2287.54	2288.93	2290.38
Cu Yds	Exc	1					37	21,388	104,878	79,009	19,427	806	3,079	3,598	667					5,105	12,643	18,852	1,757	88	3,153	12,566	12,234	785			1,912	2,326	
	Emb.	8951	14,521	8,980	1,180		15	7			69	6,468	12,203	730		+3,356	10,282	2,233	620	3,267	11,966	18,865	20,143	19,005	14,952				5,000	4,859		

Channel Change Exc.

F.M.	10561
A2	OF A28

DIST.	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
VII	L.A.	4	I	4	34

D. H. Markley
Dist. Eng. Dist. VII
Approved May 25, 1931
Fred Grunsky
Engineer, Surveys and Plans.

T. 7 N. R. 18 W. S.B.B.&M.

SEC. 2

~~SANTA BARBARA~~ LOS PADRES NATIONAL FOREST

SEC. 35

ANGELES NATIONAL FOREST

STA. 148+15 PLACE 24"x62" CMP
AZ 90° BUILD I-STD H.W.
S 5.62, C 1.52, E & B 7.5 CY

STA 151+46 PLACE 24"x62" CMP
AZ 90° BUILD I-STD H.W.
S 6.21 LBS, C 1.52 CY, E & B 7.8 CY

STA 156+50 PLACE 24"x160" CMP AZ 90° BUILD I-STD H.W.
S 6.21 LBS, C 1.52 CY, E & B 7.35 CY

Δ = 54° 46
R = 2500
T = 1294.95
L = 2389.65
E = 315.48

STA 167+71 PLACE 24"x164" CMP
AZ 90° BUILD I-STD H.W.
S 3.71 LBS, C 0.98 CY, E & B 2.23 CY.

Piru Creek

SLOPE PAVING

Δ = 6° 43'
R = 10,000
T = 586.81'
L = 1172.28'
E = 17.20'

N 8° 04' E
798.24'

CHANNEL CHANGE
Topcut

Liebre Creek

STA 142+40 TO 144+15
CONSTRUCT SLOPE PAVING
PCC - 364 CY STEEL - 10920 #

Sta. 143+32 to 146+12 Bridge
Not a part of this Contract

B.M. No. 21
Elev. 2245.48
Large Spike in Root 36 Cottonwood
48' Rt. Sta. 143+60

B.M. No. 22
Elev. 2283.52
½" Iron Pipe on Shale Ridge
20' Rt. Sta. 145+50

B.M. No. 23
Elev. 2315.07
½" Iron Pipe on Shale Ridge
20' Rt. Sta. 149+35

B.M. No. 24
Elev. 2301.77
Cut Spike in Crack of Shale Rock
77' Rt. Sta. 156+80

B.M. No. 25
Elev. 2322.10
¾" Iron Pipe on Shale Ridge
205' Rt. Sta. 163+60

Width of Roadbed = 38' (Variable)
All Fill Slopes 1.3:1
Profile Grade is 2' Above Finished Crown
Cut Slopes ½:1

24"x62" CMP
24"x160" CMP
24"x164" CMP

+3.72%
+3.85%
+2.9%
±10%
Grade of Channel Change
℄ Grade of Channel Change
Sta. on ℄ C.C.

BRIDGE
1000 Vc.
Approx. High Water

Sta	143	4	5	6	7	8	9	150	1	2	3	4	5	6	7	8	9	160	1	2	3	4	5	6	7	168
Elev.	2290.36	2291.87	2293.34	2295.00	2296.64	2298.33	2300.07	2301.85	2303.69	2307.41	2311.13	2314.85	2318.57	2322.29	2326.01	2329.73	2333.45	2337.17	2340.89	2344.61	2348.33	2352.05	2355.77	2359.49	2363.21	2366.93	2370.65	2374.37	2378.09	2381.81
Cu. Yds. Exc.								8,851	15,430	4,336	6,135	8,255	8,837	3,644	2,025	588		446	4,049	8,106	5,913	2,001	1,364			3,947				6457
Cu. Yds. Emb.		11,844								2,138	4,493	1,740	1,293	6,800	6,670	7,549	21,753	23,465	21,805	22,910	17,430	4,742	10,869	23,061	20,268	19,377	25,710	22,209	19

Channel Change Exc.

F.M. 10561

A3 OF A28

DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
VII	LA.	4	1	5	34

Approved May 25, 1931
D. C. Hotchkiss, Dist. Eng. Dist. VII.
Fred Grunsky
Engineer, Surveys and Plans.

T. 7 N. R. 18 W. S.B.B.&M.
SEC. 35

LOS ~~SANTA~~ PADRES ~~BARBARA~~ NATIONAL FOREST
SEC. 34

STA. 169+50 PLACE 24"×110' CMP
AZ. 90° BUILD 1-STD. HW
S. 37 LBS., C. 0.98 CY., E&B. 151 CY.

Δ = 54°45'
R = 2500
T = 1294.95
L = 2389.65
E = 315.48

Sta. 176+00 Sec. I to Sta. 578+18 Sec. J
Construct prop. fence (11.5 mi. left + 11.5 mi. right)

STA. 180+50 PLACE 24"×52' CMP
AZ. 90° BUILD 1-STD. HW
S. 62 LBS., C. 1.52 CY., E&B. 66 CY.

STA. 184+00 PLACE 24"×140' CMP
AZ. 90° BUILD 1-STD. HW
S. 37 LBS., C. 0.98 CY., E&B. 190 CY.

STA. 191+50 PLACE 24"×98' CMP
AZ. 90° BUILD 1-STD. HW
S. 37 LBS., C. 0.98 CY., E&B. 130 CY.

D: 85-33, O.R. 10844-242
H. E. Barneson & Rea Edwards Maynard
(R. F. Monroe, Purchase Option)

Δ = 36°34'
R = 1500
T = 495.59
L = 957.31
E = 79.75

Property Line
Approx. 1/16th Sec. Line

Liebre Cr.
Earth Dyke
5' CHANNEL CHANGE
Top Cut
Barn
Forest Supervisor's Special Use Permit 12-15-11
Liebre Pump Sta.
Gen'l Pipe Line Co. of Calif.
Approx. Property Line
West Branch Liebre
5' CHANNEL CHANGE
G.P. Water Line
G.P. Oil Line
G.P. Telephone Line
So. Calif. Gas Co. 22" Gas Line
G.P. Pumping Plant
Hs.

N 46° 42' W Cr
938.97'

179+90.14 EC.
189+29.11 BC.
168+07.66
192+04
192+04

BM. No. 26
Elev. 2368.44
Cut Spike in 6" Oak
240' Rt. Sta. 170+00

BM. No. 27
Elev. 2458.38
Cut Spike in 8" Oak Stump
65' Rt. Sta. 177+90

BM. No. 28
Elev. 2434.10
Cut Spike in 5" Oak
85' Lt. Sta. 185+25

BM. No. 29
Elev. 2444.55
Cut Spike in 5" Oak
64' Rt. Sta. 192+75

Width of Roadbed = 38'
All Fill Slopes = 1.3:1
Profile Grade is 2" Above Finished Crown

Cut Slopes ½:1
Cut Slopes 3/4:1
Cut Slopes 1:1

24"×110' CMP
24"×52' CMP
24"×140' CMP
24"×98' CMP

+3.12%
500' VC
+2.73%
1000' VC
-2.4%
-2%
Grade of Channel Change

Sta. on ℄ C.C.

	168	9	170	1	2	3	4	5	6	7	8	9	180	1	2	3	4	5	6	7	8	9	190	1	2	193
Channel Change Exc.		532															84	566	493	229						
Cu. Yds. Exc.		2,057			420	11,424	26,380	17,119	12,079	11,993	15,591	10,796	4,590	706	218	31					1,077	9,802	7,087	1,138	13	4,390	
Cu. Yds. Emb.		4,752	13,532	9,514	3,373									363	2,028	5,128	15,594	19,840	16,130	12,487	3,148			661	3,859	935	

F.C. CHP
A.D.G.

F.M. 10561
A 4 OF A 28

DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
VII	L.A.	4	I&J	6	34

D. W. Monteleon
Dist. Eng. Dist. VII
Approved May 25, 1931
Fred Grunsky
Engineer, Surveys and Plans.

T.7N.,R.18W.,S.B.B.&M.

Sec. 34

H. E. Barneson & Rea Edwards Maynard
(R. F. Monroe, Purchase Option)
D:85-33, O.R. 10844-242

Δ = 36°34'
R = 1500'
T = 495.59'
L = 957.31'

198+86.42 E.C.

199+73.85 LA-4-I = EQUATION
0+00.00 LA-4-J

Sta. 7+85-Place 30"x 106' C.M. Pipe
Build 1 Std. H.W.-S=43, C=1.27, E.&B.=148 C.Y.

Approx. ¼ Sec. Line

Sta. 12+50-Place 24"x72' C.M. Pipe
Build 1 Std. H.W.-S=37, C=0.98, E.&B=95 Cy.

Sta. 18+00-Place 24"x44' C.M.P.
Build 1 L H.W.-S=62, C=1.32, E.&B=62 C.Y.

Approx. Sta. 195+70
(Property Line

GOLDEN STATE HIGHWAY

Los Alamos Ct.

22" Gas Line

Road

50'

edge of slope

N. 83°20' W. 865.64'

87.43

95.3.07

66'

N. 83°16' W-Sec. I — EQUATION
N. 83°20' W-Sec. J

(General Pipe Line Co. of Calif.

Water Line
G P Oil Line
Telephone Line

Sta 197+00-Place 24"x76' C.M.P. Pipe
Build 1 Std. H.W.-S=37, C=0.98 E&B=110 C.Y.

8+65.64 B.C.

Δ = 60°12'
R = 2000'
T = 1159.36'
L = 2101.38'

LOS ~~SANTA~~ PADRES ~~BARBARA~~ NATIONAL FOREST

B.M. No. 1
Elev. 2478.19
Ford Axle (Driven Flush)
100' Rt. Sta. 0+00

B.M. No. 2
Elev. 2438.86
Cut Spike in small pipe
88' Rt. Sta. 4+85

B.M. No. 3
Elev. 2417.32
Ford Axle
75' Rt. Sta. 11+50

Width of Roadbed 38 feet
Profile Grade is 2" above Finished Crown
Cut Slopes 1:1
Fill Slopes 1½:1

Fill Slopes 1.3:1

2500 2480 2460 2440 2420 2400 2380

1000' V.C.

24"x76' C.M.P.

199+73.85 LA-4-I = Equation = 0+00.00 LA-4-J

-73.85

+0.15' 2446.49

-3.76%

30"x106' C.M.P.

24"x72' C.M.P.

24"x44' C.M.P.

2388.45

1000' V.C.

Sta	193	4	5	6	7	8	199	0	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	18
Elev.	2456.34	2456.89	2457.28	2457.52	2457.57	2457.48	2457.22	2456.80	2456.23	2455.48	2454.57	2453.51	2452.28	2450.88	2450.16	2448.52	2446.73	2442.97	2439.21	2435.45	2431.69	2427.93	2424.17	2420.41	2416.65	2412.89	2409.13	2405.37	2401.61	2397.85	2394.09	2390.33	2388.45	2386.67	2386.08	2383.68
Cu Yds Exc.	5319	1440	46	0	0	2390	2089	3458	4459	3065	3410	1120	0	0	0	0	0	65	316	3	521	1646	2998	4914	7150	
Cu Yds Emb.	0	149	1235	3531	1892	40	0	0	0	0	0	181	1709	3368	6048	5396	1523	499	94	1365	172	0	0	0	0	

Channel Change Exc.

F.M. 10561

A5 OF A28

DIST.	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
VII	LA	4	J	7	34

D. P. Corteleyou
Dist. Eng. Dist. VII
Approved May 25, 1931
Fred Grunsky
Engineer, Surveys and Plans.

T. 7 N., R. 18 W., S.B.B.&M.

Sec. 34

Sec. 27

Los Alamos Creek

Tower #498

Tower #497

Tower #496

Tower #495

Sou. Calif. Edison Co. Power Transmission Line

Pipe Line Bridge

Wagon Road

Telephone Line

Gen'l Pipe Line Co. of Calif. Oil Line

Top of Cut

Channel Change

Edge of Water

Water Line

Oil Line

Sta. 26+63 - Place 24"x94' C.M.P.
Build 1 Std. H.W.-S=3.7, C=0.98, E&B=130 C.Y.

Sta. 35+50 - Place 30"x78' C.M.P.
Build 1 Std. H.W.-S=4.3, C=1.27, E&B=108 C.Y.

Sta. 40+80 - Place 24"x86' C.M.P.
Build 1 Std. H.W.-S=3.7, C=0.98, E&B=112 C.Y.

N. 23° 08' W. 2564.09'

Sta. 23+27 to 24+55 Bridge
not a part of this Contract.

Sta. 20+00 - Place 24"x102' C.M.P.
Build 1 Std. H.W.-S=3.7, C=0.98, E&B=137 C.Y.

Δ = 60° 12'
R = 2000'
T = 1159.36'
L = 2101.38'

(Approx. Section Line)

29+67.02 E.C.

LOS PADRES
SANTA BARBARA NATIONAL FOREST

B.M. No. 4
Elev. 2351.48
Cut Spike in 10" Willow
140' Lt. Sta. 18+60

B.M. No. 5
Elev. 2392.12
Ford Axle center of Edison Tower
100' Lt. Sta. 25+45

B.M. No. 6
Elev. 2443.19
Red-head in 4" Oak Stump
145' Lt. Sta. 33+15

B.M. No. 7
Elev. 2451.89
Cut Spike in 4" Oak Stump
86' Lt. Sta. 41+00

Width of Roadbed 38 feet
Profile Grade is 2" above Finished Crown
Cut Slopes 1:1
Fill Slopes 1½:1

Sta. 23+27 to 24+55 Bridge
not a part of this Contract
but Approaches to be
Constructed.

+0.6% Grade of Chan'l Chg. on Lt

1000' V.C.

BRIDGE

-3.70% Grade of Channel Change on Rt

+4.00%

-1.20% Grade of Channel Change on Rt

1000' V.C.

24"x102" C.M.P.
24"x52" C.M.P.
24"x94" C.M.P.
30"x78" C.M.P.
24"x86" C.M.P.

	2383.68	2382.48	2381.48	2380.65	2380.03	2379.60	2379.35	2379.35	2379.47	2379.84	2380.39	2381.13	2382.08	2383.20	2384.52	2386.04	2387.75	2389.65	2391.65	2395.65	2399.65	2403.65	2407.65	2411.65
	354	1738	1515	Channel Change Exc.														48	2783	2459	2			
Cu. Yds. Exc.	6661	488	668	1943	3428	381	0	293	193	0	0	5	214	2293	3276	884	8	0	0	0	167	452	0	0
Cu. Yds. Emb.	4288	7848	5729	17	0	913	1037	59	3052	3314	5469	1504	192	0	11	5295	5438	2833	510	564	184	647	2734	3607	2545

	2415.65	2419.65	2423.65	2427.65	2431.65	2435.65	2439.65	2443.65	2445.61	2447.48	2449.26	2450.95	2452.56	2454.08										
	863	749	12																					
Cu. Yds. Exc.	1563	8	0	0	0	0	167	452	0	0	0													
Cu. Yds. Emb.	5295	5438	2833	510	564	184	647	2734	3607	2545														

	18	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40	1	2	43

RGY. CHF. ASS.

F.M. 10561

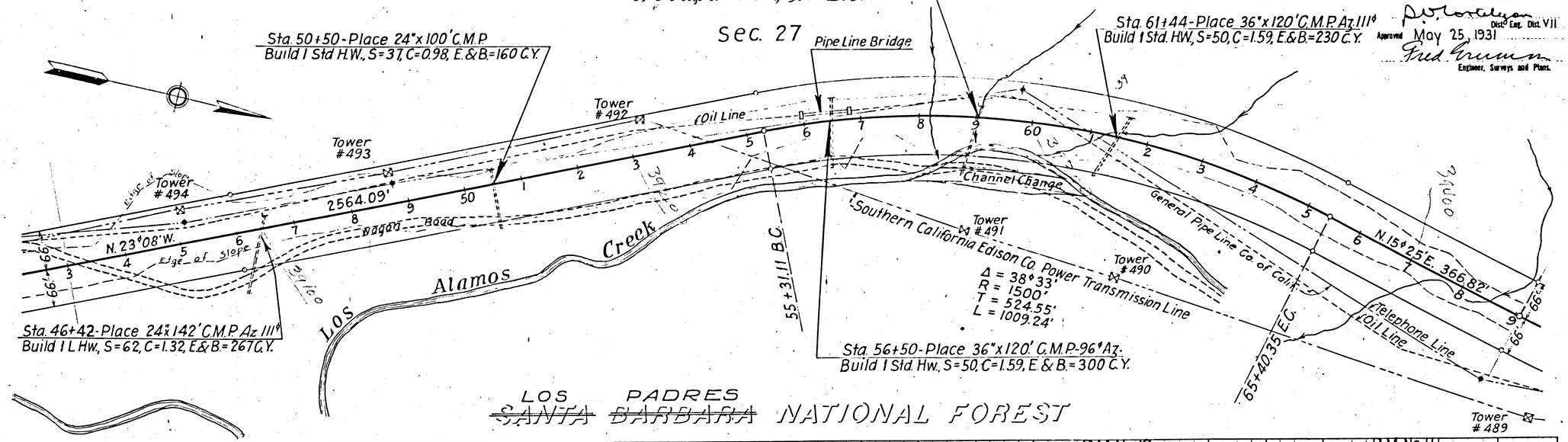
A 6 OF A 28

DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
VII	L.A.	4	J	8	34

D.W. Lovelace
Dist. Eng. Dist. VII
Approved May 25, 1931
Fred Grunsky
Engineer, Surveys and Plans.

T. 7 N., R. 18 W., S.B.B.&M.

Sec. 27



LOS PADRES ~~SANTA BARBARA~~ NATIONAL FOREST

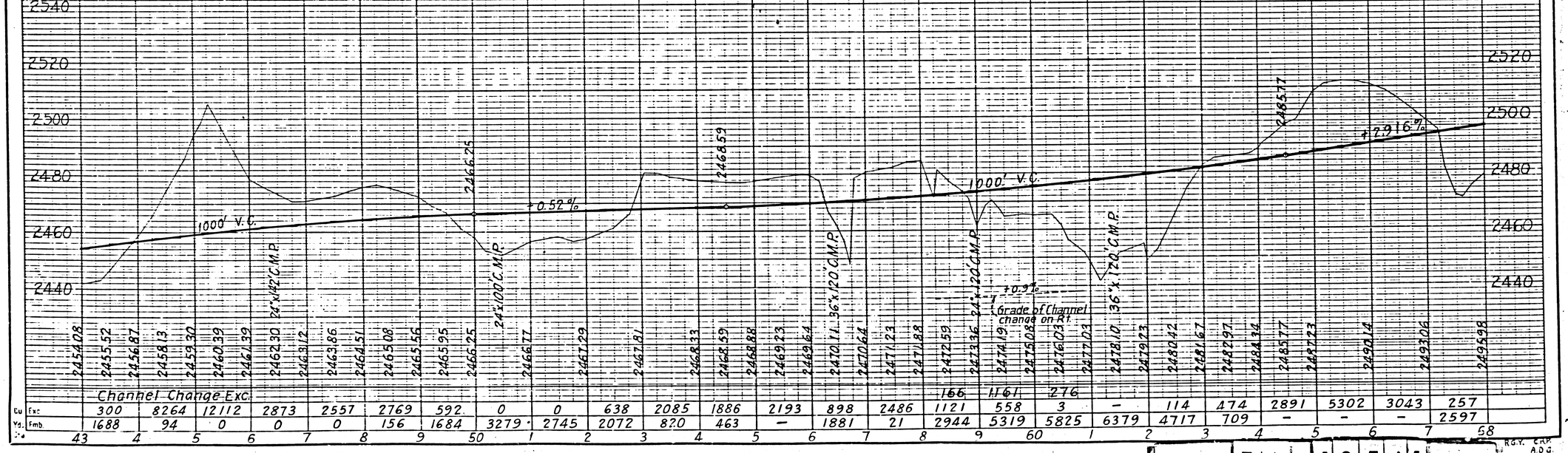
B.M. No. 8
Elev. 2465.19
Cut Spike in Manzanita
145' Rt. Sta. 46+75

B.M. No. 9
Elev. 2486.12
Truck Axle (on Power Line)
68' Lt. Sta. 52+55

B.M. No. 10
Elev. 2454.59
Cut Spike - 6" Oak
75' Rt. Sta. 61+25

B.M. No. 11
Elev. 2489.39
60d Spike in 10" forked Oak
61' Rt. Sta. 66+80

Width of Roadbed 38 feet
Profile Grade is 2' above Finished Crown
Cut Slopes 1:1
Fill Slopes 1½:1



Channel Change Exc.

Cu. Yd.	Exc.	300	8264	12112	2873	2557	2769	592	0	0	638	2085	1886	2193	898	2486	1121	558	3	–	114	474	2891	5302	3043	257
	Emb.	1688	94	0	0	0	156	1684	3279	2745	2072	820	463	–	1881	21	2944	5319	5825	6379	4717	709	–	–	–	2597

43 4 5 6 7 8 9 50 1 2 3 4 5 6 7 8 9 60 1 2 3 4 5 6 7 58

R.G.Y. CHIEF ADG.

F.M. 10561

A7 OF A28

CAL 113-D 1931 9 34

T.7N.,R.18W.,S.B.B.&M.

DIST.	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
VII	L.A.	4	J	9	34

D. W. Lotteryon
Dist. Eng. Dist. VII
Approved May 25, 1931
Fred Rummel
Engineer, Surveys and Plans.

Witness Cor.
359 358 889
51 27 720
West 476.78
Tie to Witness Cor.
Sec. 22
Sec. 27
Δ = 23°58'
R = 2500'
T = 530.63'
L = 1045.74'
N 15°25' E-366.82
62+01.1 B.C.
79+52.91 E.C.
88+14.02
Creek
Sta. 82+00 to 84+16 Bridge not a part of this Contract.
Conc. Slope Pav. 67 Cu Yd Conc. 4625 Lbs. Steel
Pipe Line Bridge
Telephone Line
N. 8°33' W. 2026.76'
66'
Edge of Slope
Edge of Slope
Oil Line
General Pipe Line Co. of Calif.
GOLDEN STATE HIGHWAY
Tower #489
Tower #488
Tower #487
Tower #486
Tower #485
Southern California Edison Co. Power Transmission Line
Sta. 74+00-Place 24"x98' C.M.P. Build 1 L Hw, S=62, C=1.32, E.&B.=160 C.Y.
Sta. 68+30-Place 30"x196' C.M. Pipe Az. 130° Build 1 Std. H.W., S=43, C=1.27, E.&B.=330 C.Y.
Los Alamos Cr.
Wagon Road
Los Alamos
Conc. Slope Pav. 96 Cu Yds. Conc. 6510 Lbs. Steel
Approx Section Line
LOS SANTA BARBARA PADRES NATIONAL FOREST

B.M. No. 12
Elev. 2509.94
¾" Iron Pipe (Flush with ground)
94' Rt. Sta. 72+15

B.M. No. 13
Elev. 2536.85
Red-head in 12" Oak
110' Rt. Sta. 82+22

B.M. No. 14
Elev. 2559.07
1" Pipe (Driven Flush)
100' Lt. Sta. 89+50

Width of Roadbed 38 feet
Profile Grade is 2" above Finished Crown

Cut Slopes 1:1
Cut Slopes ¾:1
Fill Slopes 1½:1
Fill Slopes 1.3:1
Fill Slopes 1½:1

Sta. 82+00 to 84+16 Bridge not a part of this Contract but approaches & slope paving to be constructed.

+2.916%
1000' V.C.
BRIDGE
24"x98' C.M.P.
30"x196' C.M.P.

2600 / 80 / 60 / 40 / 20 / 2500

Sta.	68	9	70	1	2	3	4	5	6	7	8	9	80	1	2	3	4	5	6	7	8	9	90	1	2	93
Elev.	2495.98	2498.89	2501.81	2504.72	2507.64	2510.56	2513.47	2516.39	2519.30	2522.22	2525.14	2528.05	2530.97	2533.88	2536.80	2539.72	2542.63	2545.55	2548.47	2551.38	2554.30	2555.76	2557.20	2558.62	2560.01	2561.38	2562.72	2564.02	2565.31	2566.58	2567.81
Channel Change Exc. Cu Yds. Exc.		319	2719	2241	2139	1657	188	57	31	6	4332	9289	8699	4630	1658	–	47	–	–	–	–	266	1593	3736	8583	16819	
Emb.		1471	–	–	–	61	2097	3546	9609	8736	1335	–	–	–	407	–	4468	10513	2920	2519	1389	142	–	–	–	–	

F.M. 10561
A8 OF A28

DIST.	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
VII	LA	4	J	10	34

Approved May 25, 1931
Dist. Eng. Dist. VII.
Engineer, Surveys and Plans.

T. 7 N. R. 18 W. S.B.B. & M.

Sec. 22

Sec. 21

H. E. Barneson & Rea Edwards Maynard
(R. F. Monroe, Purchase Option)

Pan-American Pet. Co. Oil Line
22" Gas Line

99+79.7 B.C.

Approx. Sec. Line
Property Line

For Tie To Section Line See C.S. Bk. 1939

Δ = 30° 23'
R = 3000'
T = 814.61'
L = 1590.87'

Sta. 115+50-Place 24"x 58' C.M. Pipe
Build 1 L.H.W.-Place 18"x60' C.M. Pipe
Build 1 Clean Out Box-S=1.97, C=2.44, E.&B.=6.8 C.Y.

115+10.54 E.C.

N. 38° 56' W. 760.68'

N. 8° 33' W. 2026.76'

Los Alamos Creek

1/4 Sec. Cor. (Rk. Md.)

237 Cu. Yd. Conc.
16350 Lbs. Steel

Conc. Slope Pav.

3'x9' Rect. Standard

Sou. Calif. Edison Co. Transmission Line

Road

Tower #484

Tower #483

Tower #482

Tower No. 481

Sta. 96+00-Place 24"x 72' C.M.P.
Build 1 Std. H.W. S=.37, C=0.98, E.&B.=9.4 C.Y.

Sta. 104+00-Place 24"x 70' C.M.P.
Build 1 Std. H.W. S=.37, C=0.98, E.&B.=9.2 C.Y.

Sta. 110+40-Place 24"x 120' C.M.P.
Build 1 Std. H.W.-S=.37, C=0.98, E.&B.=17.0 C.Y.

General Pipe Line Co. of Calif.

Sta. 115+62.10
Approx. 1/4 Sec. Line

Sta. 117+21.69

LOS PADRES NATIONAL FOREST
~~SANTA BARBARA~~

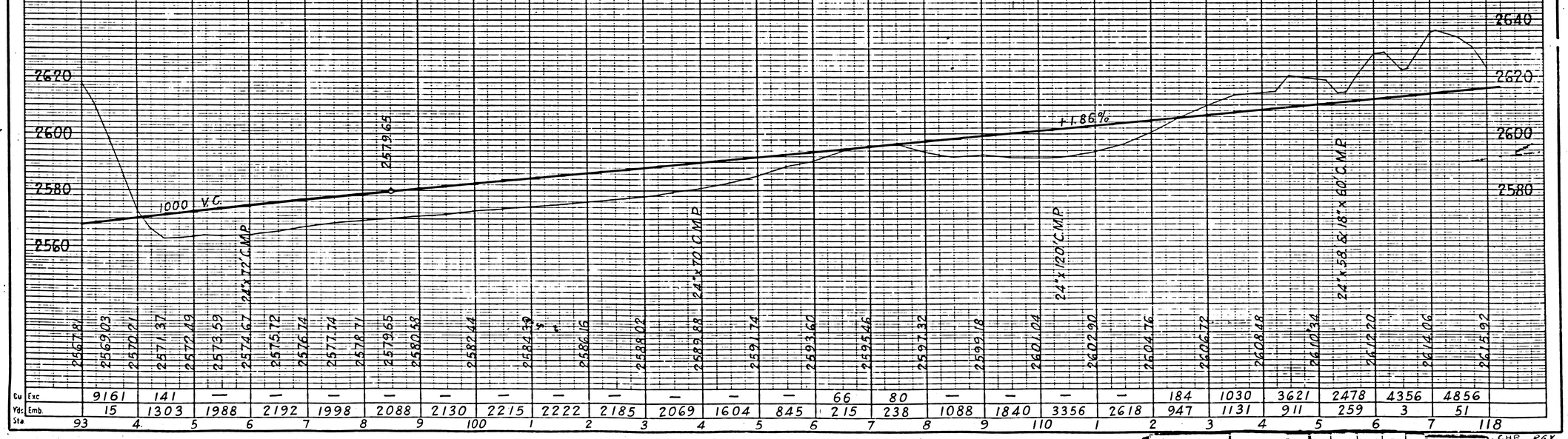
B.M. No. 15
Elev. 2573.90
U.S.G.S. (Set in Conc. Base with Brass Cap) 55' Rt. Sta. 100+70

B.M. No. 16
Elev. 2588.48
Redhead in 5" Oak
106' Lt. Sta. 106+80

B.M. No. 17
Elev. 2605.45
1" Iron Pipe on Bank Creek
77' Lt. Sta. 116+50

Width of Roadbed 38 feet
Profile Grade is .2' above Finished Crown

All Cut Slopes 3/4:1
All Fill Slopes 1 1/2:1



Sta	Elev.	Cu Yds Exc	Cu Yds Emb.
93	2567.81	9161	15
4	2569.03		1303
5	2570.21	141	1988
6	2571.37		2192
7	2572.49		1998
8	2573.59		2088
9	2574.67		2130
100	2575.72		2215
1	2576.74		2222
2	2577.74		2185
3	2578.71		2069
4	2579.65		1604
5	2580.58		845
6	2582.44		215
7	2584.39	66	238
8	2586.16	80	1088
9	2588.02		1840
110	2589.88		3356
1	2591.74		2618
2	2593.60		947
3	2595.46	184	1131
4	2597.32	1030	911
5	2599.18	3621	259
6	2601.04	2478	3
7	2602.90	4356	51
8	2604.76	4856	
9	2606.72		
118	2608.48		

C.H.P. R&V

F.M. 10561

A 9 OF A 28

DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
VII	L A	4	J	11	34

Dist. Eng. Dist. VII.
Approved May 25, 1931
Engineer, Surveys and Plans.

Sta. 120+50-Place 8'x6'x116' R.C. Box Culvert
Az. 62° S=20,000 C=165 E.&B=500 C.Y.

T. 7 N. R. 18 W. S.B.B. & M.

Sec. 21

Los Alamos

Conc. Slope Pav.

Conc. 54 Yds. 3725 lbs. Steel

Ditch

Road

Creek

Approx. Sta. 131+85

Approx 1/16 Sec. Line
Property Line

E 25-277, O.R. 15960-265

D. 85-33, O.R. 10844-242
H. E. Barneson & Rea Edwards Maynard
(R. F. Monroe, Purchase Option)

Pipe & Wire T.T.

Channel Change

Approx Sta. 143+20

N. 38° 56' W. 760.68'

N. 21° 44' W. 2620.51'

620' Pipe & Wire

Telephone Line

Oil Line

Tower No. 481

Approx. Sec. Line
Prop. Line

Sec. 22

Sou. Calif. Edison Co. Trans. Line

123+31.22 B.C.

FOR WIDENING

Δ = 17° 22'
R = 3,000'
T = 453.71'
L = 900.59'

REALIGNMENT

132+37.81 E.C.

SEE F.M. 12010-13
C.S. B-2013-13

General Pipe Line Co. of Calif.

Sta. 124+50-Place 24"x 108' C.M.P.
Build 1 Std. H.W.-S.=37, C.=0.98, E.&B.=106 C.Y.

D. 85-33, O.R. 10844-242
H. E. Barneson & Rea Edwards Maynard
(R. F. Monroe, Purchase Option)

Approx 1/16 Sec. Line
Property Line

Sta. 133+10-Place 24"x 182' C.M.P.-Az. 44°
Build 1 Std. H.W.-S.=37, C.=0.98, E.&B.=220 C.Y.

United States Government

LOS PADRES NATIONAL FOREST

SANTA BARBARA

United States Government

B.M. No. 18
Elev. 2606.18
Redhead in 7" Willow
80' L. Sta. 125+30

B.M. No. 19
Elev. 2640.53
½" Pipe (Driven Flush)
97' L. Sta. 134+90

Width of Roadbed 38 feet
Profile Grade is 2' above Finished Crown
All Cut Slopes 3/4:1

Fill Slopes 1½:1

Fill Slopes 1.3:1

+1.86%

1000' V.C.

Channel Change on Left Grade +1.42%

8'x6'x116' R.C. Box Culv.

24" x 108' C.M.P.

24" x 182' C.M.P.

	118	9	120	1	2	3	4	5	6	7	8	9	130	1	2	3	4	5	6	7	8	9	140	1	2	143
Channel Change Exc.			3102														110	4240	6435	7407	8596	9102	8898	7722	1272	37
		453	–	–	–	–	–	–	222	1463	3181	5274	9525	10469	8342	502	–	–	–	–	20	108	2	–	–	–
		2728	3671	4516	639	759	2552	2472	250	14	–	–	–	–	1	3238	9663	6643	1130	931	625	176	190	6729	13618	14343

	2615.92	2617.78	2619.64	2621.50	2623.36	2625.22	2627.08	2628.94	2630.80	2632.66	2634.52	2636.38	2638.24	2640.10	2641.96	2643.82	2645.68	2647.54	2649.40	2651.26	2653.12	2654.05	2655.01	2656.01	2657.07	2658.18	2659.34	2660.55	2661.81	2663.12	2664.48

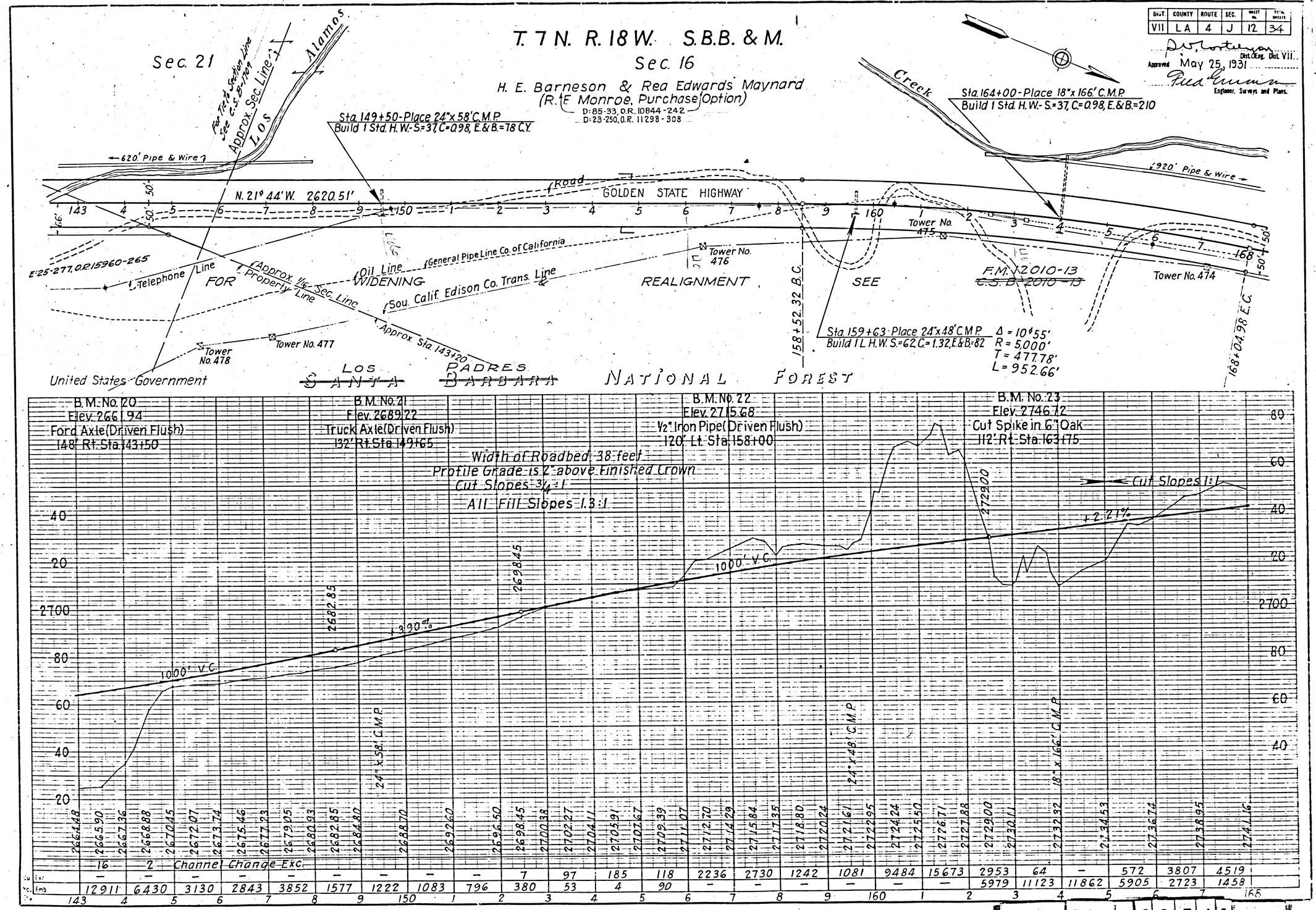
F.M. 10561

A10 OF A28

2 | CAL. 113-D | 1931 | 12 | 34

DIST.	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
VII	L A	4	J	12	34

Dist. Eng. Dist. VII.
Approved May 25, 1931
Engineer, Surveys and Plans.



Station	Elevation	Cu Yds Exc	Cu Yds Emb
143	2664.48	—	12911
4	2665.90	—	6430
5	2667.36	—	3130
6	2668.88	—	2843
7	2670.45	—	3852
8	2672.07	—	1577
9	2673.74	—	1222
150	2675.46	—	1083
1	2677.23	—	796
2	2679.05	16	380
3	2680.93	2	53
4	2682.85	—	4
5	2684.80	—	90
6	2688.70	—	—
7	2692.60	—	—
8	2696.50	—	—
9	2698.45	7	—
160	2700.38	97	—
1	2702.27	185	—
2	2704.11	118	—
3	2705.91	2236	—
4	2707.67	2730	—
5	2709.39	1242	—
6	2711.07	1081	—
7	2712.70	9484	—
8	2714.29	15673	—
9	2715.84	2953	5979
170	2717.35	64	11123
1	2718.80	—	11862
2	2720.24	572	5905
3	2721.61	3807	2723
4	2722.95	4519	1458
5	2724.24		
6	2725.50		
7	2726.71		
8	2727.88		
9	2729.00		
180	2730.11		
1	2732.32		
2	2734.53		
3	2736.74		
4	2738.95		
5	2741.16		
6			
7			
8			

F.M. 10561

A 11 OF A 28

2	CAL.	13-D	1931	13	34

DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
VII	LA	4	J	13	34

D. O. Loveland
Dist. Eng. Dist. VII
Approved May 25, 1931
Fred Grunsky
Engineer, Surveys and Plans.

T. 7 N. R. 18 W. S.B.B. & M.

Sec. 16

H. E. Barneson & Rea Edwards Maynard
[R. F. (Monroe - Purchase Option]
D-85-33 b.R. 10844-242

Los Alamos Creek

1920' Pipe & Wire

Sta. 176+00-Place 24"x56' C.M.P
Build 1 Std. H.W.-S.=37, C.=0.98, E.&B.=60 C.Y.

140' Lt. Sta 183+00-Place 30"x140' C.M.P
Build 1 Std. H.W.-30" to 48"x6' Flare-S.=66, C.=2.42, E.&B.=80 C.Y.

D-23-250, O.R. 11298-308

176+52.66 B.C.

Approx. 1/4 Sec. Line

For Tie to 1/4 Section Line see C.S. & Tree

℄ Santa Barbara Nat'l. Forest Boundary

Δ = 26°52'
R = 3000'
T = 716.54'
L = 1406.74'

Gorman Creek

190+59.40 E.C.

℄ 350' Pipe & Wire

Sta. 189+00-Place 24"x114' C.M.P-Build 1 Std. H.W.
Place 18"x112' C.M.P-Build 1 Clean Out Box
S.=172, C.=2.10, E.&B.=342 C.Y.

168+04.98

N. 10° 29' W. 847.68'

Tower No. 473

FOR WIDENING & REALIGNMENT

Road

℄ Soul Calif. Edison Co. Trans. Line

Sta. 169+50-Place 18"x162' C.M.P
Build 1 L.H.W.-S.=53, C.=1.00, E.&B.=245 C.Y.

Tower No. 472

SEE C.S.B. 2010-13 F.M. 12010-13

Approx. Sta. 184+22

Sta. 184+60-Place 5'x5'x68' Conc. Box Culvert. Az.=84°-S.=3970, C.=43.0, E.&B.=280 C.Y.

N. 37° 41' W. 464.72

℄ General Pipe Line Co. of California

℄ Oil Line

Sta. 192+50-Place 24"x94' C.M.P
Build 1 Std. H.W.-S.=37, C.=0.98, E.&B.=123 C.Y.

~~SANTA BARBARA~~ LOS PADRES NATIONAL FOREST

B.M. No. 24
Elev. 2758.73
Ford Axle (Driven Flush)
80' Rt. Sta. 169+90

B.M. No. 25
Elev. 2770.12
Cut Spike in 6" Oak
57' Rt. Sta. 176+20

B.M. No. 26
Elev. 2765.98
Ford Axle (Driven Flush)
62' Rt. Sta. 181+77

B.M. No. 27
Elev. 2786.07
60° Spike in 6" Oak Tree
113' Rt. Sta. 188+08

Fill Slopes 1.3:1

All Cut Slopes 1:1

Fill Slopes 1½:1

Width of Roadbed 38 feet
Profile Grade is 2" above Finished Crown

+4.21%

-3.40%

1000' V.C.

2753.31

2781.36

18"x162' C.M.P

24"x56' C.M.P

30"x140' C.M.P
140' Lt. Sta 183+00

5'x5'x68' Conc. Box Culv.

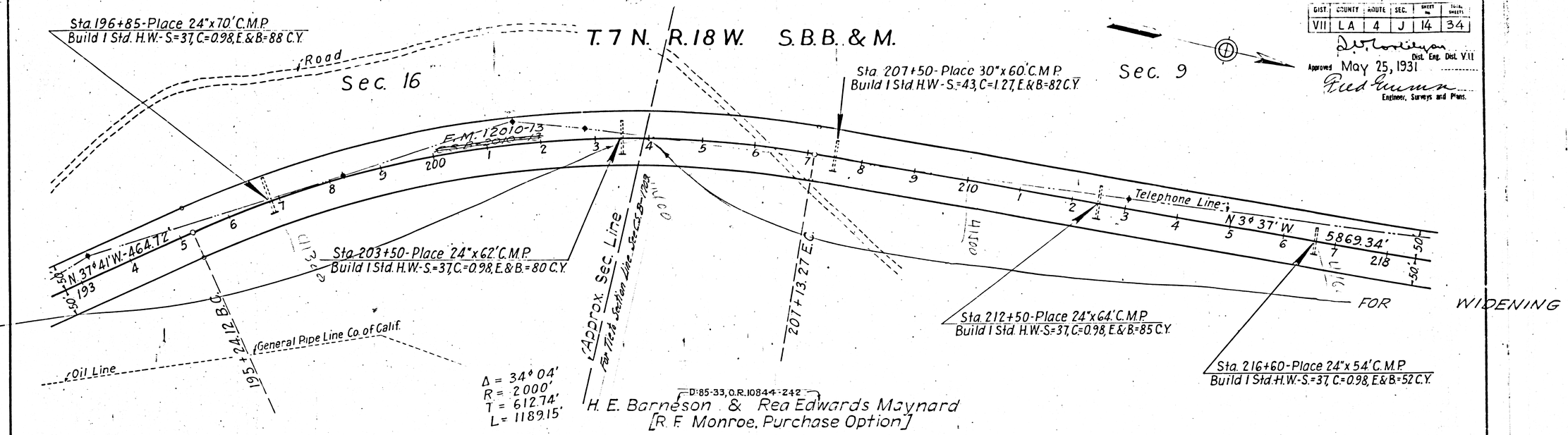
24"x114' & 18"x112' C.M.P.

24"x94' C.M.P.

| | | |

DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
VII	LA	4	J	14	34

Dist. Eng. Dist. VII
Approved May 25, 1931
Engineer, Surveys and Plans.



F.M. 10561

A13 OF A28

DIST.	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
VII	LA	4	J	15	34

Approved May 25, 1931
Dist. Eng. Dist. VII.
Engineer, Surveys and Plans.

T. 7 N. R. 18 W. S.B.B. & M.

1/4 Sec. Cor. 2½"x3½" Hewed Stake 4' Long (Mound of Rock around Base) Inscriptions unreadable.

Sec. 9

Sta. 223+00 - Place 30"x52' C.M.P. Build 1 Std. H.W.-S=43, C=1.27, E & B=64 C.Y.

East 1295.36 (Calc.) Sta. 230+20.09

Telephone Line

Fence

Tower No. 463

N. 3° 37' W. 5869.34'

50' 218 9 220 1 2 3 4 5 6 7 8 9 230 1 2 3 4 5 6 7 8 9 240 1 2 243 50'

FOR WIDENING AND REALIGNMENT SEE F.M. 12010-14 ~~C.S. B-2010-14~~

General Pipe Line Co. of Calif. Oil Line

Tower No. 465

Sou. Calif. Edison Co. Trans. Line

Tower No. 464

Approx. 1/4 Sec. Line & Prop. Line

Sta. 236+50 - Place 24"x60' C.M.P. Build 1 Std. H.W.-S=3.7, C=0.98, E & B=80 C.Y.

FOR WIDENING AND REALIGNMENT SEE

D:23-250, O.R. 11298-308
D:85-33, O.R. 10844-242
H. E. Barneson & Rea Edwards Maynard
[R. E. Monroe, Purchase Option]

D:23-250, O.R. 11298-308
D:23-262, O.R. 11371-323
Estate of Jesse Orwin
(Burton L. Smith, Administrator)

B.M. No. 32
Elev. 2865.90
Cut Spike in 6" Oak
68' Rt. Sta. 218+60

B.M. No. 33
Elev. 2888.10
Ford Axle (Driven Flush)
117' Lt. Sta. 229+67

B.M. No. 34
Elev. 2902.79
Large Spike in 18" Cottonwood
222' Lt. Sta. 137+85

Width of Roadbed 38 feet
Profile Grade is 2" above Finished Crown
All Cut Slopes 1:1
All Fill Slopes 1½:1

2860.31 2877.99 2896.23 2926.47

600' V.C. +2.72% 600' V.C. +3.36% 600' V.C.

30"x52' C.M.P. 24"x60' C.M.P.

	218	9	220	1	2	3	4	5	6	7	8	9	230	1	2	3	4	5	6	7	8	9	240	1	2	243
Elev.	2854.49	2855.50	2856.58	2857.75	2858.99	2860.31	2861.67	2864.39	2867.11	2869.83	2872.55	2875.27	2877.99	2879.36	2880.76	2882.19	2883.64	2885.12	2886.63	2888.16	2889.72	2891.31	2892.92	2894.56	2896.23	2899.59	2902.95	2906.31	2909.67	2913.03	2916.39	2919.75	2923.11	2926.47	2928.09	2929.59
Cu. Yds.	–	203	1644	1681	–	–	–	–	–	–	–	215	2420	2012	394	268	58	–	–	–	–	7	1157	3662											
Sta.	482	90	16	61	482	630	722	815	954	861	574	713	307	–	19	324	54	495	1162	1440	1708	1683	1239	622	1										

F.M. 10561

A 14 OF A 28

DIST	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
VII	LA	4	J	16	34

D. W. Lordelyon
Dist. Eng. Dist. VII
Approved May 25, 1931
Fred Grunsky
Engineer, Surveys and Plans.

T. 7 N. R. 18 W. S.B.B. & M.

Sec. 9 | Sec. 4

Fence
Telephone Line
Sou. Calif. Edison Co. Trans. Line
Tower No. 467
Tower No. 463
Oil Line
Tower No. 461
General Pipe Line Co. of Calif.
Tower No. 460
Barn
GOLDEN STATE HIGHWAY
N. 3° 37' W 5869.34'
Sta 257+50 Place 24"x54' C.M.P.
Build 1 Std H.W.-S=37, C=0.98, E&B=157 C.Y.
Sta 266+00 - Place 24"x56' C.M. Pipe
Build 1 Std H.W.-S.=37, C=0.98, E&B=50 C.Y.
243 4 5 6 7 8 9 250 1 2 3 4 5 6 7 8 9 260 1 2 3 4 5 6 7 268
50' 50' 50'

CAL 113-D (1931) 17 34

DIST	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
VII	LA	4	J	17	34

D. W. Lorraine
Dist. Eng. Dist. VII

Approved May 25, 1931
Fred Grunsky
Engineer, Surveys and Plans.

"Sec Cor 2½" Brass Capped Pipe Set in Conc. Base (Co Surv'y) Mound of Rock. Data Stamped on Cap showing Sec, Range & Twnp.

R. Wallace
(Thomas L B Kennedy, et al)

T. 7 N. R. 18 W. S.B.B. & M.

Sec. 4

Harry Arthur & Elizabeth Martin Thompson
D: 85-47, O.R. 10821-336

Lot No. 4 | Lot No. 1

T. 8 N. R. 18 W.
Sec. 33

Road

Tower No. 459 | Tower No. 458 | Tower No. 457

General Pipe Line Co of Calif.
Oil Line
Telephone Line
Sou Calif. Edison Co. Trans. Line

E. C. S. B. 1749 - East 1111.49 (Calc.) - Sta 287+73.90

N. 8° 27' E. 5849.05

Approx. ¼ Sec. Line
Property & Lot Line

Approx. Township Line

286+88.64 E.C.

Lot No. 3 | Lot No. 2

Approx. Lot Line & Property Line

D: 23-263, O.R. 11482-22

Sta. 272+00 - Place 24" x 48' C.M.P.
Build 1 L H W-S=65, C=1.58, E.&B.=65 C.Y.

Δ = 12° 04'
R = 10,000'
T = 1056.92'
L = 2106.03'

Sta 279+10 - Place 24" x 68' C.M.P.
Build 1 Std. H.W.-S=37, C=0.98, E.&B.=84 C.Y.

Sta. 292+00 - Place 24" x 48' C.M.P.
Build 2 Std. H.W.-S=74, C=1.96, E.&B.=62 C.Y.

Sta. 286+80 - Place 36" x 56' C.M.P.
Build 1 Std. H.W.-S=50, C=1.59, E.&B.=62 C.Y.

F. M. 12010-14
~~E. S. B 2010-14~~

...NG AND REALIGNMENT SEE ...

FOR WIDEN...

Superior Court Case No. 325661
Suit for Condemnation
Filed July 31st 1931
People of State of Calif., Plff.
Vs
Thomas L. B. Kennedy et al., Def.

Order authorizing Plaintiff to take immediate possession rendered July 31, 1931. Jud. Bk. 789-376.

Case dismissed May 16th 1932.

B.M. No. 38
Elev. 2977.94
Cut Spike in 12" Juniper
86' Rt. Sta. 271+12

B.M. No. 39
Elev. 2968.54
Large Spike in 8" Willow
220' Lt. Sta. 277+60

B.M. No. 40
Elev. 2983.24
Large Spike in 12" Willow
261' Lt. Sta. 286+30

All Cut Slopes 1:1

Fill Slopes 1½:1
Width of Roadbed 38 feet
Profile Grade is 2" above Finished Crown

Fill Slopes 6:1
Width of Roadbed 41 feet
Profile Grade is 3" above Finished Crown

600' V.C. | +4.72% | 600' V.C. | +1.00% | 600' V.C. | +1.92%

Sta	268	9	270	1	2	3	4	5	6	7	8	9	280	1	2	3	4	5	6	7	8	9	290	1	2	293
Elev.	2967.87	2968.97	2971.06	2972.12	2973.18	2974.18	2975.16	2976.12	2977.05	2977.97	2978.86	2979.73	2980.57	2981.39	2982.17	2982.93	2983.65	2984.35	2985.01	2985.65	2986.26	2986.83	2987.37	2987.89	2988.89	2989.89	2990.89	2991.89	2992.89	2993.89	2994.89	2995.41	2995.97	2996.56	2997.20	2997.87	2998.58	2999.33	3000.12	3000.94	3001.81	3002.71	3003.65
Cu. Yds. Exc.	–	85	729	79	65	74	37	7121	6168	1780	1295	–	–	–	–	1165	6683	2622	176	2	44	107	70	97	167	
Yds. Emb.	436	320	42	74	46	28	120	–	17	188	745	1546	1287	1310	1282	539	–	135	667	704	616	491	514	389	315	

24" x 48' C.M.P. | 24" x 68' C.M.P. | 36" x 56' C.M.P. | 24" x 48' C.M.P.

F.M. 10561
A 16 OF A 28

DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
VII	L A	4	J	18	34

Approved May 25, 1931
Dist. Eng. Dist. VII
Engineer, Surveys and Plans.

T. 8 N. R. 18 W. S.B.B. & M.

Lot No. 1 — Sec. 33

Harry Arthur & Elizabeth Martin Thompson
D:85-47, O.R. 10821-336
C.S. 6970

Tower No 455 — Road — Tower No 454 — Sou Calif Edison Co Trans Line — Tower No 453 — Tower No. 452
General Pipe Line Co of Calif — Oil Line — Telephone Line

50' + 50' — N. 8° 27' E. 5849.05' — 50' + 50'

293 4 5 6 7 8 9 300 1 2 3 4 5 6 F.M. 12010-158 C.S. B-2010-158 9 310 1 2 3 4 5 6 7 318

Ditch 3' wide

Approx. 1/16 Sec. Line — Property Line & Lot Line

FOR WIDENING AND REALIGNMENT SEE ~~F.M. 12010-14 C.S. B-2010-14~~

Sta 298+50-Place 24"x48' C.M.P.
Build 2 Std H.W-S.=74, C=1.96, E.&B=62 C.Y.

Albert E. Dunning

Sta 305+00-Place 24"x48' C.M.P.
Build 2 Std H.W-S=74, C=1.96, E.&B=62 C.Y.

D:85-63, O.R. 10778-190
Clyde E. Holland

Sta 314+65-Place 36"x60' C.M.P.-Az. 59°
Build 1 Std. H.W-S.=50, C=1.59, E.&B.=105 C.Y.

Lot No. 2

Approx. 1/16 Sec. Line

B.M. No. 41
Elev. 3008.95
Ford Axle (Driven Flush)
154' Rt. Sta. 295+38

B.M. No. 42
Elev. 3022.17
Ford Axle (Driven Flush)
153' Lt. Sta. 304+00

B.M. No. 43
Elev. 3054.06
Large Bent Spike in Juniper Root
130' Rt. Sta. 311+10

All Cut Slopes 1:1

Width of Roadbed 41 feet
Profile Grade is 3" above Finished Crown
Fill Slopes 6:1

Width of Roadbed 38 feet
Profile Grade is 2" above Finished Grade
Fill Slopes 1½:1

+1.92% — 600' V.C. — +2.81% — 600' V.C. — +2.50%

60 / 40 / 20 / 3000

	293	4	5	6	7	8	9	300	1	2	3	4	5	6	7	8	9	310	1	2	3	4	5	6	7	318					
Elev.	3003.65	3005.57	3007.49	3009.41	3011.33	3013.25	3015.17	3017.09	3019.01	3020.93	3021.91	3022.92	3023.98	3025.07	3026.19	3027.36	3028.56	3029.80	3031.08	3032.38	3033.74	3035.12	3037.93	3040.74	3043.55	3046.36	3047.76	3049.15	3050.82	3051.88	3053.23	3054.56	3055.88	3057.19	3058.48	3059.76	3061.03	3062.29
Cut	181	181	148	292	343	333	296	320	278	292	218	183	169	167	148	134	139	167	273	454	6295	1766	–	–	–	–						
Fill	218	287	319	264	157	144	190	167	176	204	245	273	324	333	324	361	366	310	167	152	–	82	320	611	769							

24"x48' C.M.P. — 24"x48' C.M.P. — 36"x60' C.M.P.

F.M.	10561
A17	OF A28

DIST	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
VII	LA	4	J	19	34

D. V. Loveless
Dist. Eng. Dist. VII
Approved May 25, 1931
Fred Grunsky
Engineer, Surveys and Plans.

T. 8 N. R. 18 W. S.B.B. & M.

Sec 33

3

Harry Arthur & Elizabeth Martin Thompson

Property Line

Approx. 1/4 Sec. Line

Albert E. Dunning

Walter Eugene Thompson
D: 85-30, O.R. 10790-369

German Creek

C. S. 6970

Tower No 451

Sou. Calif. Edison Co. Trans. Line

Tower No 450

Tower No 449

Tower No 448

General Pipe Line Co of Calif.

Oil Line

Road

Telephone Line

N. 8° 27' E.

584.905'

F.M. 12010-15

~~C.S. B-2010-15~~

FOR WIDENING & REALIGNMENT SEE F.M. 12010-15 ~~C.S. B-2010-15~~

Sta 320+50 - Place 24"x58' C.M.P.
Build 1 Std H.W.-S=37, C=0.98, E&B=82 C.Y.

Sta 326+00 - Place 30"x48' C.M.P.
Build 2 Std H.W.s S=86, C=2.54, E&B=110 C.Y.

Sta 330+50 - Place 36"x48' C.M.P.
Build 2 Std H.W.s-S=100, C=3.18, E.&B=80 C.Y.

Sta 338+00 - Place 24"x48' C.M.P.
Build 2 Std H.W.s- S=74, C=1.96, E.&B=68 C.Y.

Sta 342+50 - Place 24"x48' C.M.P.
Build 2 Std. H.W.s-S=74, C=1.96, E.&B=64 C.Y.

B.M. No. 44
Elev. 3061.27
Ford Axle (Driven Flush)
170' Rt. Sta. 318+95

B.M. No. 45
Elev. 3088.19
Large Spike in 8" Oak
168' Rt. Sta. 326+27

B.M. No. 46
Elev. 3090.15
½" Iron Pipe (Driven Flush)
186' Rt. Sta. 335+95

B.M. No. 47
Elev. 3112.12
Large Spike (12" Forked Oak)
195' Rt. Sta. 341+35

All Cut Slopes 1:1

Width of Roadbed 38 feet
Profile Grade is 2" above Finished Crown
Fill Slopes 1½:1

Width of Roadbed 41 feet
Profile Grade is 3" above Finished Crown
Fill Slope 6:1

+2.50%

600' V.C.

+0.43%

1000' V.C.

3062.29 | 3077.29 | 3086.08 | 3087.80

24"x58' C.M.P. | 30"x48' C.M.P. | 36"x48' C.M.P. | 24"x48' C.M.P. | 24"x48' C.M.P.

	318	9	320	1	2	3	4	5	6	7	8	9	330	1	2	3	4	5	6	7	8	9	340	1	2	343
Cu Yds Exc	–	–	–	–	–	–	726	1847	741	546	313	164	133	42	–	–	–	12	656	759	190	499	201	208	148	
Cu Yds Emb	847	861	912	958	972	917	411	–	–	58	245	526	708	579	1258	1157	1009	806	363	292	435	406	347	333	398	

F.M. 10561

A 18 OF A 28

DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
VII	LA	4	J	20	34

D.W. Lowrey
Dist. Eng. Dist. VII
Approved May 25, 1931
Fred Lumm
Engineer, Surveys and Plans.

T. 8 N. R. 18 W. S.B.B. & M.

Sec. 33 | Sec. 28

Sec Cor - 2½" Brass Capped Pipe Set in 6" Conc. Cylinder (Mound of Rock)

Walter Eugene Thompson D:85-30, O.R. 10790-369

Margaret Mary Ridgley & Addie Jean Cole D:85-101, O.R. 10995-78

East 1796.04 (Calc) Approx. Sec Line

345 + 37.69 B.C.

Sta 347+00 - Place 24"x 56' C.M.P. Build 1 Std. H.W.-S=37, C=0.98, E.&B.=10 C.Y.

German

Δ = 8°26'
R = 10,000'
T = 737.27'
L = 1471.89'

Sta. 355+15 to Sta. 356+50 Bridge not a part of this Contract

C.S. 6970

360 + 09.58 B.C.

Sta. 364+80 - Place 36"x 56' C.M.P. - Az = 118° Build 2 Std. H.W.-S.-S=100, C=3.18, E.&B.=96 C.Y.

Nly 1000' of S.W. 1/4 of Section 28, W'ly of State Hwy. deeded to State - E:52-16, O.R. 16802-79

N. 8°27' E. 5849.05'

N. 0°-01' E. = North

2591.11

F.M. 12010-15 ~~C.S. B-2010-15~~

FOR WIDENING & REALIGNMENT SEE F.M. 12010-15 ~~C.S. B-2010-15~~

Tower #447 | Tower No. 446 | Tower #445 | Tower #444

Roadway | Telephone Line | Oil Line | Property Line | Creek | Sou. Calif. Edison Co. Trans. Line | General Pipe Line Co. of Calif.

Sta. 345+22.66

B.M. No. 48
Elev. 3110.10
Cut Spike in 12" Cottonwood
255' Lt. Sta. 351+95

B.M. No. 49
Elev. 3130.06
Large Spike in 10" Cottonwood
175' Rt. Sta. 359+58

B.M. No. 50
Elev. 3146.00
Large Spike in 12" Cottonwood
330' Rt. Sta. 367+85

Width of Roadbed 41 feet
Profile Grade is 3" above Finished Crown
Fill Slopes 6:1

All Cut Slopes 1:1
Width of Roadbed 38 feet
Profile Grade is 2" above Finished Crown
Fill Slopes 1½:1

Width of Roadbed 41 feet
Profile Grade is 3" above Finished Crown
Fill Slopes 6:1

Sta 355+15 to Sta 356+50 Bridge not a part of this Contract

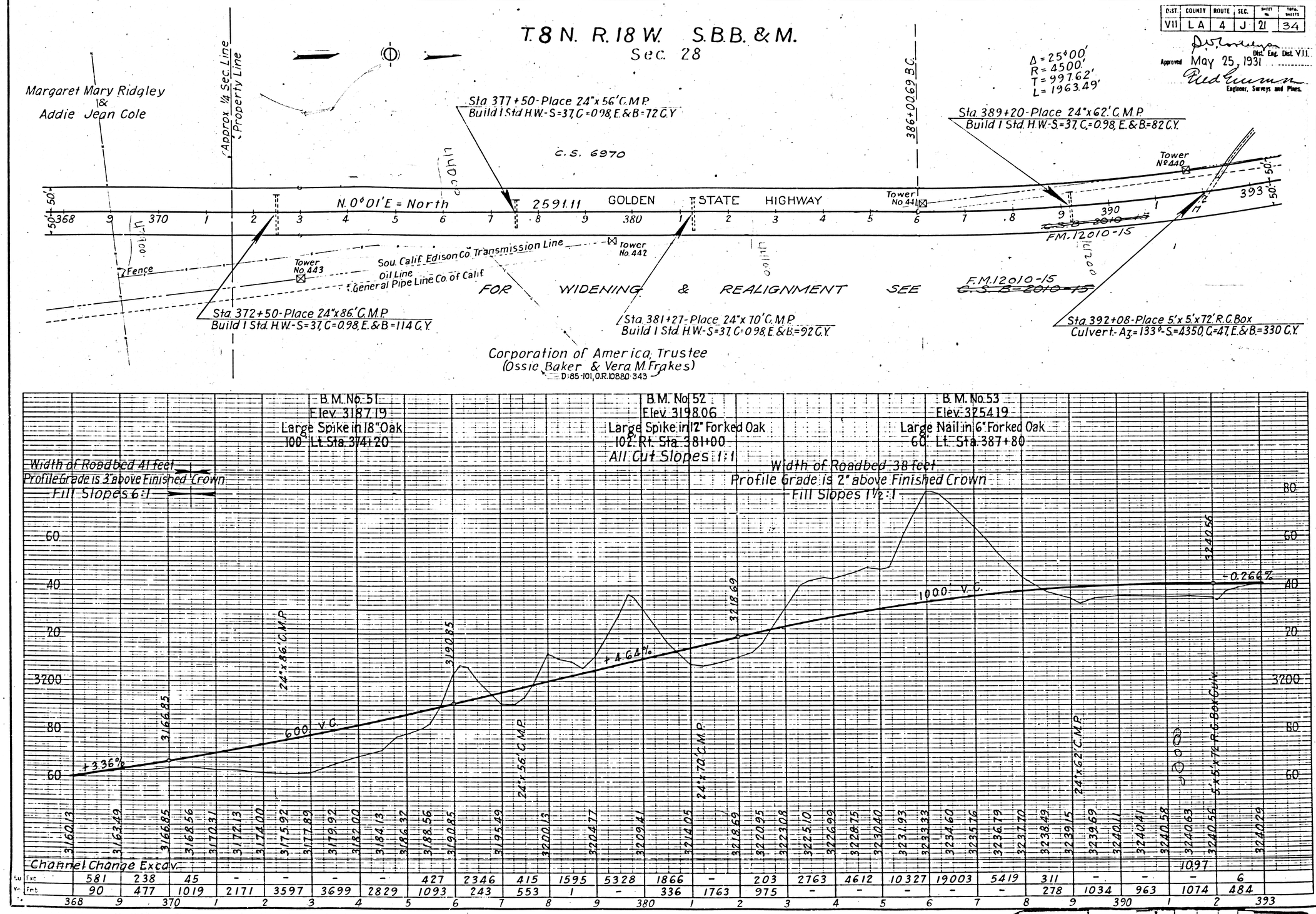
+2.20% | 1000' V.C. | 600' V.C. | +3.36%

Elev.	3098.84	3099.87	3100.95	3103.15	3106.35	3107.55	24"x56' C.M.P.	3109.75	3111.95	3114.15	3116.35	3118.55	3120.75	3122.95	3125.15	3127.35	3129.55	3131.75	3133.95	3135.05	3136.17	3137.35	3138.57	3139.84	3141.16	3142.52	3143.94	3145.40	3146.91	36"x56' C.M.P.	3150.07	3151.73	3153.41	3156.77	3160.13
Cu Exc	208	296	256	291	107	102	60	9	9	–	–	–	–	–	–	–	–	–	–	–	–	242	732	1107	653	462	516	574						
Yds Emb	407	287	398	430	1582	1685	1628	1315	1042	690	639	574	414	984	1082	886	799	764	310	12	–	191	126	134	53									
Sta	343	4	5	6	7	8	9	350	1	2	3	4	5	6	7	8	9	360	1	2	3	4	5	6	7	368									

F.M.	10561
A19	OF A28

DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
VII	LA	4	J	21	34

Dist. Eng. Dist. VII.
Approved May 25, 1931
Engineer, Surveys and Plans.



F.M. 10561

A20 OF A28

DIST.	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
VII	L A	4	J	22	34

D. V. Loutzenhiser
Dist. Eng. Dist. VII.
Approved May 25, 1931
Fred Grunsky
Engineer, Surveys and Plans.

T. 8 N. R. 18 W. S.B.B. & M.

Sec. 28 | Sec. 21

Construct Channel Change
Construct Dyke
Creek
Fence
Sec. Cor. 2½" Brass Capped Pipe. Co. Sur Mon.
S. 89°34'30" W. 1798.08'
Sta. 398+13.08 Section Line
Δ=25°00'
R=4500'
T=997.62'
L=1963.49'
405+64.18 E.C.
Property Line Approx. W/6 Sec Line
Albert B. & Martha E. Young
D:85-208, O.R. 11118-104
Sta. 418+00 - Place 24"x48' C.M.P.
Build 2 Std. H.W's.-S=74, C=1.96, E.&B.=62 C.Y.
C.S. 6970
Tower No. 439
Tower No. 438
Tower No. 437
Tower No. 436
Oil Line
General Pipe Line Co. of California
Sou. Calif. Edison Co. Trans. Line
Telephone Line
N. 25°00' W. - 1413.98'
F.M. 12010-16
C.B.B-2010-16
Corporation of America, Trustee (Ossie Baker & Vera M. Frakes)
D:85-101, O.R. 10880-343
Property Line
N. 89°34'30" E. 871.80'
Sta. 411+34.90
Fence
FOR WIDENING & REALIGNMENT SEE F.M. 12010-16 C.B.B-2010-16
Sta. 402+81 - Place 36"x56' C.M.P.
Build 1 Std. H.W.-S=50, C=1.59, E.&B.=98 C.Y.
Sta. 408+00 - Place 24"x48' C.M.P.
Build 2 Std. H.W's.- S=74, C=1.96, E.&B.=62 C.Y.
Sta. 413+00 - Place 24"x48' C.M.P.
Build 2 Std. H.W's.-S=74, C=1.96, E.&B.=62 C.Y.
W. E. Larson
D:85-46, O.R. 10843-282
2½" Brass Capped Pipe Co. Surveyor's Mon.
¼ Sec. Cor.

B.M. No. 54
Elev. 3256.29
Ford Axle (Driven Flush)
49' Rt. Sta. 397+20
Width of Roadbed 38 feet
Profile Grade is 2" above Finished Crown
Fill Slopes 1½:1

All Cut Slopes 1:1

B.M. No. 55
Elev. 3250.96
Ford Axle (Driven Flush)
70' Lt. Sta. 411+50
Width of Roadbed 41 feet
Profile Grade is 3" above Finished Crown
Fill Slopes 6:1

-0.266%
600' V.C.
+2.12%
+3.84%
Channel Change Grade on Left

Sta.	393	4	5	6	7	8	9	400	1	2	3	4	5	6	7	8	9	410	1	2	3	4	5	6	7	418
Elev.	3240.29	3240.03	3239.76	3239.50	3239.23	3238.96	3238.70	3238.43	3238.17	3238.08	3238.10	3238.22	3238.43	3238.74	3239.16	3239.67	3240.29	3241.00	3241.81	3242.72	3243.73	3244.85	3244.97	3250.09	3252.21	3254.33	3256.45	3258.57	3260.69	3262.81	3264.93	3267.05
Cu Exc	324	926	1620	1806	2002	54	–	–	–	–	–	65	153	194	245	259	218	153	102	125	139	176	188	225	236	239	
Yds Emb	1	–	–	–	9	244	630	699	569	687	546	417	287	195	204	282	329	394	398	412	296	273	280	285	278	

36"x56' C.M.P. | 24"x48' C.M.P. | 24"x48' C.M.P. | 24"x48' C.M.P.

F.M. 10561

A 21 OF A 28

DIST.	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
VII	LA	4	J	23	34

Dist. Eng. Dist. VII
Approved May 25, 1931
Engineer, Surveys and Plans.

T. 8 N. R. 18 W. S.B.B. & M.

Sec. 21

Sec. 20

Albert B. & Martha A. Young
D:85-20C, O.R. 11118-104

Sec Corner
2½" Brass Capped Pipe
Co. Surveyor's Monument

N 0°14' 43" E. 3585.19' (Calc)
Sec Line

419 + 78.16 B.C.

N. 25°00' W.
1413.98'

Sta. 428+00-Place 30"x 48' C.M.P.
Build 2 Std. H.W.s.-S=86, C=2.54, E.&B.=72 C.Y.

Δ=28°55' Δ = 27°34'
R=10000' R = 10,000'
T=2579.37' T = 2453.15'
L=5049.82' L = 4811.29'

C.S. 6970

Tower No. 435
Oil Line
General Pipe Line Co of California
Sou. Calif Edison Co. Trans. Line
Tower No 433
Tower No. 432
Tower No 434
Telephone Line
Fence
2' Ditch
Property Line
1/16 Sec. Line (Approx.)
(Calc) S. 0°14'43" W. 1713.01'
Sta. 438+17.49'
H.E. Barneson & Rea Edwards Maynard.
(R.F. Monroe)

3585.19
1713.01
5298.20

418 9 420 1 2 3 4 5 6 7 8 9 430 1 2 3 4 5 6 7 8 9 440 1 2 443

50' Lt.
50' Lt.

FOR WIDENING & REALIGNMENT SEE ~~C.S.B. 2010-16~~ F.M. 12010-16 (12010).

Sta. 423+00-Place 24"x 48' C.M.P.
Build 2 Std. H.W.S.-S=74, C=1.96, E.&B.=62 C.Y.

Sta. 431+00-Place 24"x 48' C.M.P.
Build 2 Std. H.W.S.-S=74, C=1.96, E.&B.=62 C.Y.

Sta. 436+50-Place 24"x 54' C.M.P.
Build 1 Std. H.W.-S=37, C=0.98, E.&B.=50 C.Y.

D:85-20B, O.R. 11118-104
Albert B. & Martha E. Young

Sec. Cor.
1"x 2" in Md. of Rock

17 H.E. Barneson & Rea Edwards Maynard. (R.F. Monroe)

B.M. No. 56
Elev. 3269.98
Ford Axle in 10" Cottonwood
98' Lt. Sta. 419+93

B.M. No. 57
Elev. 3296.59
1" Iron Pipe in Md. of Rock
50' Lt. Sta. 427+75

B.M. No. 58
Elev. 3312.96
Ford Axle in Md. of Rock
50' Lt. Sta. 436+50

All Cut Slopes 1:1

Width of Roadbed 41 feet
Profile Grade is 3' above Finished Crown
Fill Slopes 6:1

Width of Roadbed 38 feet
Profile Grade is 2' above Finished Crown
Fill Slopes 1½:1

40
20
3300
80
60

+2.12% 600' V.C. +3.22% 600' V.C. +2.06% 200' V.C. +3.585% 200' V.C. +2.86%

3267.05 3268.13 3269.28 3270.44 3271.66 3272.92 3274.24 3275.59 3277.00 3278.45 3279.94 24"x48" C.M.P. 3281.48 3283.07 3286.29 3287.90 3289.49 3291.02 3292.51 3293.95 3295.34 30"x48" C.M.P. 3296.69 3298.00 3299.23 3300.43 3301.58 3302.69 24"x48" C.M.P. 3303.74 3304.77 3306.83 3308.89 3310.95 3312.08 3313.39 3314.90 24"x54" C.M.P. 3316.60 3320.18 3323.77 3327.35 3330.94 3333.68 3336.34 3335.90 3337.38

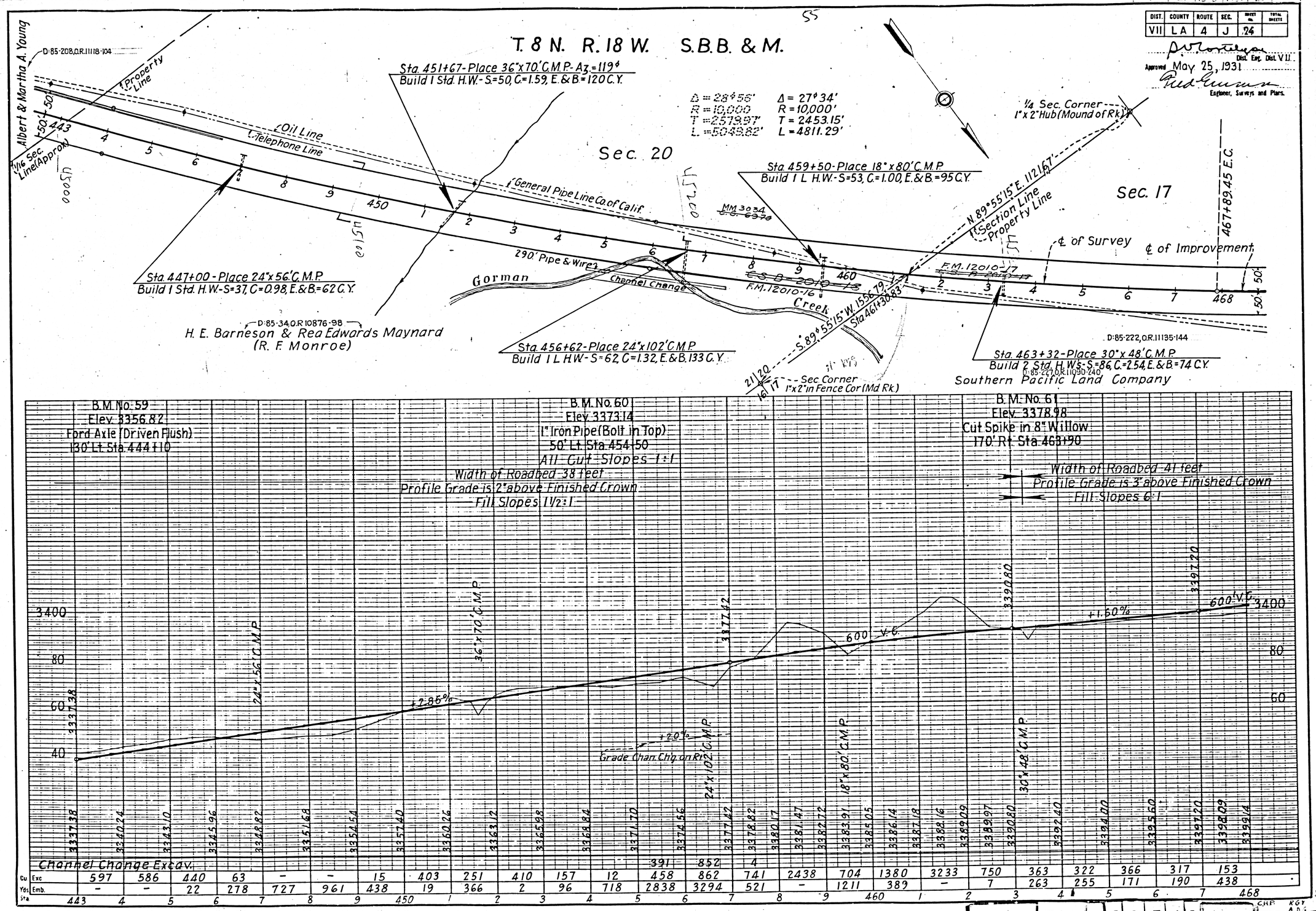
Cu. Yds. Exc	262	199	137	81	153	248	271	653	1039	611	245	315	326	428	398	336	229	9	–	–	3	176	532	727	950	
Cu. Yds. Emb.	213	301	449	500	431	313	259	23	–	68	264	336	271	199	280	384	454	398	732	843	445	48	–	–	–	
Sta.	418	9	420	1	2	3	4	5	6	7	8	9	430	1	2	3	4	5	6	7	8	9	440	1	2	443

CHF RGV A.D.9

F.M. 10561
A22 OF A28

DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
VII	LA	4	J	24	

Dist. Eng. Dist. VII
Approved May 25, 1931
Engineer, Surveys and Plans.



F.M. 10561

A23 OF A28

DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
VII	LA	4	J	25	34

Dist. Eng. Dist. VII.

Approved May 25, 1931.

Engineer, Surveys and Plans.

T. 8 N. R. 18 W. S.B.B. & M.

Sec. 17

Δ = 27°34' Δ = 28°56'
R = 10,000' R = 10000'
T = 2453.15' T = 2573.37'
L = 4811.29' L = 5049.62'

¼ Section Corner
1"x2" Hub in Md. of Rock

N.0°31'E. 862.64'
Approx. ¼ Sec. Line

467+89.45 E.C.

470+27.58 E.C.

D: 85-222, O.R. 11135-144

℄ of Improvement

Sta. 474+50-Place 24"x48' C.M.P.
Build 2 Std. H.Ws.-S=74, C=1.96, E.&B.=64 C.Y.

Sta. 480+16-Place 36"x60' C.M.P. Az. 125°
Build 2 Std. H.Ws.-S=100, C=3.18, E.&B.=104 C.Y.

Sta. 487+50-Place 24"x48' C.M.P.
Build 2 Std. H.Ws.-S=74, C=1.96, E.&B.=62 C.Y.

F.M. 12010-17
F.S. B-2019-17

N.53°56' W. 5274.35'

N.52° 34' W. 9364.65'

468 9 470 1 2 3 4 5 6 7 8 9 480 1 2 3 4 5 6 7 8 9 490 1 2 493

50'+ 50'+

U.S. 6970

℄ of Survey

Sta. 475+39.08 (Ca.)

General Pipe Line Co. of Calif.

Telephone Line

Oil Line

Property Line

Fence

Sta. 470+00-Place 24"x48' C.M.P.
Build 2 Std. H.Ws.-S=74, C=1.96, E.&B.=62 C.Y.

D: 85-227, O.R. 11090-240
Southern Pacific Land Company

Sta. 483+82-Place 24"x54' C.M.P.
Build 2 Std. H.Ws.-S=74, C=1.96, E.&B.=62 C.Y.

D: 23-180, O.R. 11751-301
Walter B. & Walter W. Ralphs, Trustees

Sta. 491+50-Place 36"x60' C.M.P.
Build 1 Std. H.W.-S=50, C=1.59, E.&B.=97 C.Y.

B.M. No. 62
Elev. 3425.62
Ford Axle on Fence Line
267' Lt. Sta. 473+55

B.M. No. 63
Elev. 3478.81
Ford Axle on Creek Bank
360' Lt. Sta. 481+65

All Cut Slopes 1:1

Width of Roadbed 41 feet
Profile Grade is 3" above Finished Crown
Fill Slopes 6:1

Width of Roadbed 38 feet
Profile grade is 2" above finish'd Crwn.
Fill Slopes 1½:1

3500

+5.74%

+3.36%

-0.30%

600' V.C.

600' V.C.

600' V.C.

3400 20 40 60 80

3399.14 3400.38 3401.78 3403.36 3405.10 3407.03 3409.12 3411.39 3413.82 3416.44 3419.22 3422.16 3425.29 3428.62 3432.18 3435.96 3439.97 3444.22 3448.70 3453.42 3458.37 3463.56 3468.99 3474.66 3480.57 3486.72 3493.11 3499.74 3506.61 3513.72 3521.07 3528.66 3536.49 3544.56 3552.87 3561.42 3570.21 3579.24 3588.51 3598.02 3607.77 3617.76 3627.99 3638.46 3649.17 3660.12 3671.31 3682.74 3694.41 3706.32 3718.47 3730.86 3743.49 3756.36 3769.47 3782.82 3796.41 3810.24 3824.31 3838.62 3853.17 3867.96 3882.99 3898.26 3913.77 3929.52 3945.51 3961.74 3978.21 3994.92 4011.87 4029.06 4046.49 4064.16 4082.07 4100.22 4118.61 4137.24 4156.11 4175.22 4194.57 4214.16 4233.99 4254.06 4274.37 4294.92 4315.71 4336.74 4358.01 4379.52 4401.27 4423.26 4445.49 4467.96 4490.67 4513.62 4536.81 4560.24 4583.91 4607.82 4631.97 4656.36 4680.99 4705.86 4730.97 4756.32 4781.91 4807.74 4833.81 4860.12 4886.67 4913.46 4940.49 4967.76 4995.27 5023.02 5051.01 5079.24 5107.71 5136.42 5165.37 5194.56 5223.99 5253.66 5283.57 5313.72 5344.11 5374.74 5405.61 5436.72 5468.07 5499.66 5531.49 5563.56 5595.87 5628.42 5661.21 5694.24 5727.51 5761.02 5794.77 5828.76 5862.99 5897.46 5932.17 5967.12 6002.31 6037.74 6073.41 6109.32 6145.47 6181.86 6218.49 6255.36 6292.47 6329.82 6367.41 6405.24 6443.31 6481.62 6520.17 6558.96 6597.99 6637.26 6676.77 6716.52 6756.51 6796.74 6837.21 6877.92 6918.87 6960.06 7001.49 7043.16 7085.07 7127.22 7169.61 7212.24 7255.11 7298.22 7341.57 7385.16 7428.99 7473.06 7517.37 7561.92 7606.71 7651.74 7697.01 7742.52 7788.27 7834.26 7880.49 7926.96 7973.67 8020.62 8067.81 8115.24 8162.91 8210.82 8258.97 8307.36 8355.99 8404.86 8453.97 8503.32 8552.91 8602.74 8652.81 8703.12 8753.67 8804.46 8855.49 8906.76 8958.27 9010.02 9062.01 9114.24 9166.71 9219.42 9272.37 9325.56 9378.99 9432.66 9486.57 9540.72 9595.11 9649.74 9704.61 9759.72 9815.07 9870.66 9926.49 9982.56 10038.87 10095.42 10152.21 10209.24 10266.51 10324.02 10381.77 10439.76 10497.99 10556.46 10615.17 10674.12 10733.31 10792.74 10852.41 10912.32 10972.47 11032.86 11093.49 11154.36 11215.47 11276.82 11338.41 11400.24 11462.31 11524.62 11587.17 11649.96 11712.99 11776.26 11839.77 11903.52 11967.51 12031.74 12096.21 12160.92 12225.87 12291.06 12356.49 12422.16 12488.07 12554.22 12620.61 12687.24 12754.11 12821.22 12888.57 12956.16 13023.99 13092.06 13160.37 13228.92 13297.71 13366.74 13436.01 13505.52 13575.27 13645.26 13715.49 13785.96 13856.67 13927.62 13998.81 14070.24 14141.91 14213.82 14285.97 14358.36 14430.99 14503.86 14576.97 14650.32 14723.91 14797.74 14871.81 14946.12 15020.67 15095.46 15170.49 15245.76 15321.27 15397.02 15473.01 15549.24 15625.71 15702.42 15779.37 15856.56 15933.99 16011.66 16089.57 16167.72 16246.11 16324.74 16403.61 16482.72 16562.07 16641.66 16721.49 16801.56 16881.87 16962.42 17043.21 17124.24 17205.51 17287.02 17368.77 17450.76 17532.99 17615.46 17698.17 17781.12 17864.31 17947.74 18031.41 18115.32 18199.47 18283.86 18368.49 18453.36 18538.47 18623.82 18709.41 18795.24 18881.31 18967.62 19054.17 19140.96 19227.99 19315.26 19402.77 19490.52 19578.51 19666.74 19755.21 19843.92 19932.87 20022.06 20111.49 20201.16 20291.07 20381.22 20471.61 20562.24 20653.11 20744.22 20835.57 20927.16 21018.99 21111.06 21203.37 21295.92 21388.71 21481.74 21575.01 21668.52 21762.27 21856.26 21950.49 22044.96 22139.67 22234.62 22329.81 22425.24 22520.91 22616.82 22712.97 22809.36 22905.99 23002.86 23099.97 23197.32 23294.91 23392.74 23490.81 23589.12 23687.67 23786.46 23885.49 23984.76 24084.27 24184.02 24284.01 24384.24 24484.71 24585.42 24686.37 24787.56 24888.99 24990.66 25092.57 25194.72 25297.11 25399.74 25502.61 25605.72 25709.07 25812.66 25916.49 26020.56 26124.87 26229.42 26334.21 26439.24 26544.51 26650.02 26755.77 26861.76 26967.99 27074.46 27181.17 27288.12 27395.31 27502.74 27610.41 27718.32 27826.47 27934.86 28043.49 28152.36 28261.47 28370.82 28480.41 28590.24 28700.31 28810.62 28921.17 29031.96 29142.99 29254.26 29365.77 29477.52 29589.51 29701.74 29814.21 29926.92 30039.87 30153.06 30266.49 30380.16 30494.07 30608.22 30722.61 30837.24 30952.11 31067.22 31182.57 31298.16 31413.99 31530.06 31646.37 31762.92 31879.71 31996.74 32114.01 32231.52 32349.27 32467.26 32585.49 32703.96 32822.67 32941.62 33060.81 33180.24 33299.91 33419.82 33539.97 33660.36 33780.99 33901.86 34022.97 34144.32 34265.91 34387.74 34509.81 34632.12 34754.67 34877.46 35000.49 35123.76 35247.27 35371.02 35495.01 35619.24 35743.71 35868.42 35993.37 36118.56 36243.99 36369.66 36495.57 36621.72 36748.11 36874.74 37001.61 37128.72 37256.07 37383.66 37511.49 37639.56 37767.87 37896.42 38025.21 38154.24 38283.51 38413.02 38542.77 38672.76 38802.99 38933.46 39064.17 39195.12 39326.31 39457.74 39589.41 39721.32 39853.47 39985.86 40118.49 40251.36 40384.47 40517.82 40651.41 40785.24 40919.31 41053.62 41188.17 41322.96 41457.99 41593.26 41728.77 41864.52 42000.51 42136.74 42273.21 42409.92 42546.87 42684.06 42821.49 42959.16 43097.07 43235.22 43373.61 43512.24 43651.11 43790.22 43929.57 44069.16 44208.99 44349.06 44489.37 44629.92 44770.71 44911.74 45053.01 45194.52 45336.27 45478.26 45620.49 45762.96 45905.67 46048.62 46191.81 46335.24 46478.91 46622.82 46766.97 46911.36 47055.99 47200.86 47345.97 47491.32 47636.91 47782.74 47928.81 48075.12 48221.67 48368.46 48515.49 48662.76 48810.27 48958.02 49106.01 49254.24 49402.71 49551.42 49700.37 49849.56 49998.99 50148.66 50298.57 50448.72 50599.11 50749.74 50900.61 51051.72 51203.07 51354.66 51506.49 51658.56 51810.87 51963.42 52116.21 52269.24 52422.51 52576.02 52729.77 52883.76 53037.99 53192.46 53347.17 53502.12 53657.31 53812.74 53968.41 54124.32 54280.47 54436.86 54593.49 54750.36 54907.47 55064.82 55222.41 55380.24 55538.31 55696.62 55855.17 56013.96 56172.99 56332.26 56491.77 56651.52 56811.51 56971.74 57132.21 57292.92 57453.87 57615.06 57776.49 57938.16 58100.07 58262.22 58424.61 58587.24 58750.11 58913.22 59076.57 59240.16 59403.99 59568.06 59732.37 59896.92 60061.71 60226.74 60392.01 60557.52 60723.27 60889.26 61055.49 61221.96 61388.67 61555.62 61722.81 61890.24 62057.91 62225.82 62393.97 62562.36 62730.99 62899.86 63068.97 63238.32 63407.91 63577.74 63747.81 63918.12 64088.67 64259.46 64430.49 64601.76 64773.27 64945.02 65117.01 65289.24 65461.71 65634.42 65807.37 65980.56 66153.99 66327.66 66501.57 66675.72 66850.11 67024.74 67199.61 67374.72 67550.07 67725.66 67901.49 68077.56 68253.87 68430.42 68607.21 68784.24 68961.51 69139.02 69316.77 69494.76 69672.99 69851.46 70030.17 70209.12 70388.31 70567.74 70747.41 70927.32 71107.47 71287.86 71468.49 71649.36 71830.47 72011.82 72193.41 72375.24 72557.31 72739.62 72922.17 73104.96 73287.99 73471.26 73654.77 73838.52 74022.51 74206.74 74391.21 74575.92 74760.87 74946.06 75131.49 75317.16 75503.07 75689.22 75875.61 76062.24 76249.11 76436.22 76623.57 76811.16 76998.99 77187.06 77375.37 77563.92 77752.71 77941.74 78131.01 78320.52 78510.27 78700.26 78890.49 79080.96 79271.67 79462.62 79653.81 79845.24 80036.91 80228.82 80420.97 80613.36 80805.99 80998.86 81191.97 81385.32 81578.91 81772.74 81966.81 82161.12 82355.67 82550.46 82745.49 82940.76 83136.27 83332.02 83528.01 83724.24 83920.71 84117.42 84314.37 84511.56 84708.99 84906.66 85104.57 85302.72 85501.11 85699.74 85898.61 86097.72 86297.07 86496.66 86696.49 86896.56 87096.87 87297.42 87498.21 87699.24 87900.51 88102.02 88303.77 88505.76 88707.99 88910.46 89113.17 89316.12 89519.31 89722.74 89926.41 90130.32 90334.47 90538.86 90743.49 90948.36 91153.47 91358.82 91564.41 91770.24 91976.31 92182.62 92389.17 92595.96 92802.99 93010.26 93217.77 93425.52 93633.51 93841.74 94050.21 94258.92 94467.87 94677.06 94886.49 95096.16 95306.07 95516.22 95726.61 95937.24 96148.11 96359.22 96570.57 96782.16 96993.99 97206.06 97418.37 97630.92 97843.71 98056.74 98270.01 98483.52 98697.27 98911.26 99125.49 99339.96 99554.67 99769.62 99984.81 100200.24 100415.91 100631.82 100847.97 101064.36 101280.99 101497.86 101714.97 101932.32 102149.91 102367.74 102585.81 102804.12 103022.67 103241.46 103460.49 103679.76 103899.27 104119.02 104339.01 104559.24 104779.71 105000.42 105221.37 105442.56 105663.99 105885.66 106107.57 106329.72 106552.11 106774.74 106997.61 107220.72 107444.07 107667.66 107891.49 108115.56 108339.87 108564.42 108789.21 109014.24 109239.51 109465.02 109690.77 109916.76 110142.99 110369.46 110596.17 110823.12 111050.31 111277.74 111505.41 111733.32 111961.47 112189.86 112418.49 112647.36 112876.47 113105.82 113335.41 113565.24 113795.31 114025.62 114256.17 114486.96 114717.99 114949.26 115180.77 115412.52 115644.51 115876.74 116109.21 116341.92 116574.87 116808.06 117041.49 117275.16 117509.07 117743.22 117977.61 118212.24 118447.11 118682.22 118917.57 119153.16 119388.99 119625.06 119861.37 120097.92 120334.71 120571.74 120809.01 121046.52 121284.27 121522.26 121760.49 121998.96 122237.67 122476.62 122715.81 122955.24 123194.91 123434.82 123674.97 123915.36 124155.99 124396.86 124637.97 124879.32 125120.91 125362.74 125604.81 125847.12 126089.67 126332.46 126575.49 126818.76 127062.27 127306.02 127550.01 127794.24 128038.71 128283.42 128528.37 128773.56 129018.99 129264.66 129510.57 129756.72 130003.11 130249.74 130496.61 130743.72 130991.07 131238.66 131486.49 131734.56 131982.87 132231.42 132480.21 132729.24 132978.51 133228.02 133477.77 133727.76 133977.99 134228.46 134479.17 134730.12 134981.31 135232.74 135484.41 135736.32 135988.47 136240.86 136493.49 136746.36 136999.47 137252.82 137506.41 137760.24 138014.31 138268.62 138523.17 138777.96 139032.99 139288.26 139543.77 139799.52 140055.51 140311.74 140568.21 140824.92 141081.87 141339.06 141596.49 141854.16 142112.07 142370.22 142628.61 142887.24 143146.11 143405.22 143664.57 143924.16 144183.99 144444.06 144704.37 144964.92 145225.71 145486.74 145748.01 146009.52 146271.27 146533.26 146795.49 147057.96 147320.67 147583.62 147846.81 148110.24 148373.91 148637.82 148901.97 149166.36 149430.99 149695.86 149960.97 150226.32 150491.91 150757.74 151023.81 151290.12 151556.67 151823.46 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180005.49 180296.76 180588.27 180880.02 181172.01 181464.24 181756.71 182049.42 182342.37 182635.56 182928.99 183222.66 183516.57 183810.72 184105.11 184399.74 184694.61 184989.72 185285.07 185580.66 185876.49 186172.56 186468.87 186765.42 187062.21 187359.24 187656.51 187954.02 188251.77 188549.76 188847.99 189146.46 189445.17 189744.12 190043.31 190342.74 190642.41 190942.32 191242.47 191542.86 191843.49 192144.36 192445.47 192746.82 193048.41 193350.24 193652.31 193954.62 194257.17 194559.96 194862.99 195166.26 195469.77 195773.52 196077.51 196381.74 196686.21 196990.92 197295.87 197601.06 197906.49 198212.16 198518.07 198824.22 199130.61 199437.24 199744.11 200051.22 200358.57 200666.16 200973.99 201282.06 201590.37 201898.92 202207.71 202516.74 202826.01 203135.52 203445.27 203755.26 204065.49 204375.96 204686.67 204997.62 205308.81 205620.24 205931.91 206243.82 206555.97 206868.36 207180.99 207493.86 207806.97 208120.32 208433.91 208747.74 209061.81 209376.12 209690.67 210005.46 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278150.49 278513.76 278877.27 279241.02 279605.01 279969.24 280333.71 280698.42 281063.37 281428.56 281793.99 282159.66 282525.57 282891.72 283258.11 283624.74 283991.61 284358.72 284726.07 285093.66 285461.49 285829.56 286197.87 286566.42 286935.21 287304.24 287673.51 288043.02 288412.77 288782.76 289152.99 289523.46 289894.17 290265.12 290636.31 291007.74 291379.41 291751.32 292123.47 292495.86 292868.49 293241.36 293614.47 293987.82 294361.41 294735.24 295109.31 295483.62 295858.17 296232.96 296607.99 296983.26 297358.77 297734.52 298110.51 298486.74 298863.21 299239.92 299616.87 299994.06 300371.49 300749.16 301127.07 301505.22 301883.61 302262.24 302641.11 303020.22 303399.57 303779.16 304158.99 304539.06 304919.37 305299.92 305680.71 306061.74 306443.01 306824.52 307206.27 307588.26 307970.49 308352.96 308735.67 309118.62 309501.81 309885.24 310268.91 310652.82 311036.97 311421.36 311805.99 312190.86 312575.97 312961.32 313346.91 313732.74 314118.81 314505.12 314891.67 315278.46 315665.49 316052.76 316440.27 316828.02 317216.01 317604.24 317992.71 318381.42 318770.37 319159.56 319548.99 319938.66 320328.57 320718.72 321109.11 321499.74 321890.61 322281.72 322673.07 323064.66 323456.49 323848.56 324240.87 324633.42 325026.21 325419.24 325812.51 326206.02 326599.77 326993.76 327387.99 327782.46 328177.17 328572.12 328967.31 329362.74 329758.41 330154.32 330550.47 330946.86 331343.49 331740.36 332137.47 332534.82 332932.41 333330.24 333728.31 334126.62 334525.17 334923.96 335322.99 335722.26 336121.77 336521.52 336921.51 337321.74 337722.21 338122.92 338523.87 338925.06 339326.49 339728.16 340130.07 340532.22 340934.61 341337.24 341740.11 342143.22 342546.57 342950.16 343353.99 343758.06 344162.37 344566.92 344971.71 345376.74 345782.01 346187.52 346593.27 346999.26 347405.49 347811.96 348218.67 348625.62 349032.81 349440.24 349847.91 350255.82 350663.97 351072.36 351480.99 351889.86 352298.97 352708.32 353117.91 353527.74 353937.81 354348.12 354758.67 355169.46 355580.49 355991.76 356403.27 356815.02 357227.01 357639.24 358051.71 358464.42 358877.37 359290.56 359703.99 360117.66 360531.57 360945.72 361360.11 361774.74 362189.61 362604.72 363020.07 363435.66 363851.49 364267.56 364683.87 365100.42 365517.21 365934.24 366351.51 366769.02 367186.77 367604.76 368022.99 368441.46 368860.17 369279.12 369698.31 370117.74 370537.41 370957.32 371377.47 371797.86 372218.49 372639.36 373060.47 373481.82 373903.41 374325.24 374747.31 375169.62 375592.17 376014.96 376437.99 376861.26 377284.77 377708.52 378132.51 378556.74 378981.21 379405.92 379830.87 380256.06 380681.49 381107.16 381533.07 381959.22 382385.61 382812.24 383239.11 383666.22 384093.57 384521.16 384948.99 385377.06 385805.37 386233.92 386662.71 387091.74 387521.01 387950.52 388380.27 388810.26 389240.49 389670.96 390101.67 390532.62 390963.81 391395.24 391826.91 392258.82 392690.97 393123.36 393555.99 393988.86 394421.97 394855.32 395288.91 395722.74 396156.81 396591.12 397025.67 397460.46 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539240.49 539747.76 540255.27 540763.02 541271.01 541779.24 542287.71 542796.42 543305.37 543814.56 544323.99 544833.66 545343.57 545853.72 546364.11 546874.74 547385.61 547896.72 548408.07 548919.66 549431.49 549943.56 550455.87 550968.42 551481.21 551994.24 552507.51 553021.02 553534.77 554048.76 554562.99 555077.46 555592.17 556107.12 556622.31 557137.74 557653.41 558169.32 558685.47 559201.86 559718.49 560235.36 560752.47 561269.82 561787.41 562305.24 562823.31 563341.62 563860.17 564378.96 564897.99 565417.26 565936.77 566456.52 566976.51 567496.74 568017.21 568537.92 569058.87 569580.06 570101.49 570623.16 571145.07 571667.22 572189.61 572712.24 573235.11 573758.22 574281.57 574805.16 575328.99 575853.06 576377.37 576901.92 577426.71 577951.74 578477.01 579002.52 579528.27 580054.26 580580.49 581106.96 581633.67 582160.62 582687.81 583215.24 583742.91 584270.82 584798.97 585327.36 585855.99 586384.86 586913.97 587443.32 587972.91 588502.74 589032.81 589563.12 590093.67 590624.46 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822815.49 823442.76 824070.27 824698.02 825326.01 825954.24 826582.71 827211.42 827840.37 828469.56 829098.99 829728.66 830358.57 830988.72 831619.11 832249.74 832880.61 833511.72 834143.07 834774.66 835406.49 836038.56 836670.87 837303.42 837936.21 838569.24 839202.51 839836.02 840469.77 841103.76 841737.99 842372.46 843007.17 843642.12 844277.31 844912.74 845548.41 846184.32 846820.47 847456.86 848093.49 848730.36 849367.47 850004.82 850642.41 851280.24 851918.31 852556.62 853195.17 853833.96 854472.99 855112.26 855751.77 856391.52 857031.51 857671.74 858312.21 858952.92 859593.87 860235.06 860876.49 861518.16 862160.07 862802.22 863444.61 864087.24 864730.11 865373.22 866016.57 866660.16 867303.99 867948.06 868592.37 869236.92 869881.71 870526.74 871172.01 871817.52 872463.27 873109.26 873755.49 874401.96 875048.67 875695.62 876342.81 876990.24 877637.91 878285.82 878933.97 879582.36 880230.99 880879.86 881528.97 882178.32 882827.91 883477.74 884127.81 884778.12 885428.67 886079.46 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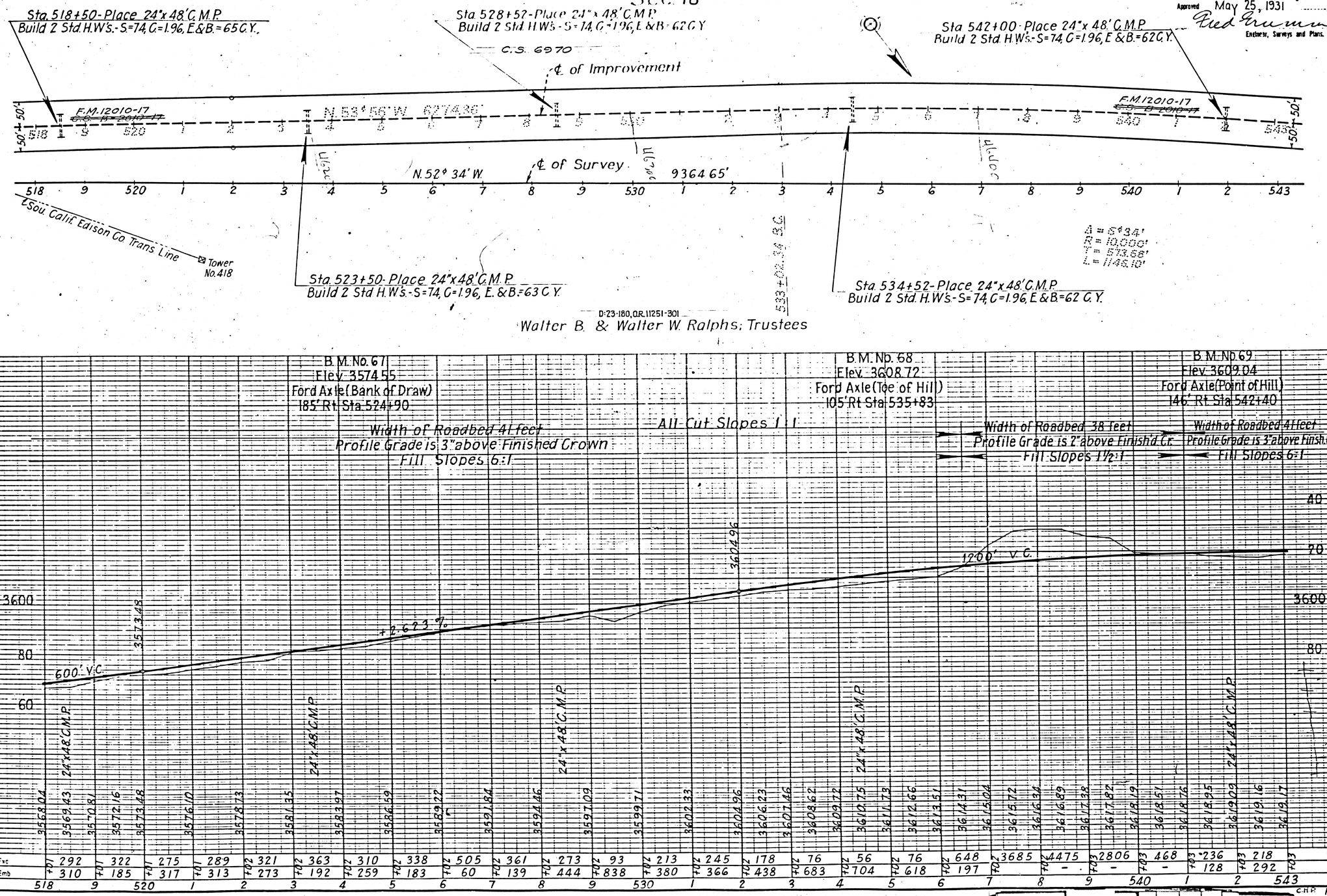
1019664.12 1020362.67 1021061.46 1021760.49 1022459.76 1023159.27 1023859.02 1024559.01 1025259.24 1025959.71 1026660.42 1027361.37 1028062.56 1028763.99 1029465.66 1030167.57 1030869.72 1031572.11 1032274.74 1032977.61 1033680.72 1034384.07 1035087.66 1035791.49 1036495.56 1037199.87 1037904.42 1038609.21

2 CAL 13-D 1931 27 34

DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
VII	L.A.	4	J	27	34

Dist. Eng. Dist. VII
Approved May 25, 1931
Engineer, Surveys and Plans.

T. 8 N. R. 18 W. S.B.B. & M.
Sec. 18



C.H.P. R.G.Y. A.D.

F.M. 10561

A26 OF A28

DIST.	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
VII	LA	4	J	28	34

D.W. Whittelsey
Dist. Eng. Dist. VII
Approved: May 25, 1931
Fred Grunsky
Engineer, Surveys and Plans.

Sec. 18

Section Cor. Stake Mkd T 8 N R 18 W S 18 on S.E. S 7 on N.E. T 8 N R 19 W S 13 on N.W. S 12 on S.W.

T. 8 N. R. 18 W. S. B. B. & M.

Sec. 7

Sta 546+00 - Place 24" x 48' C.M.P.
Build 2 Std. H.W's. - S=74, C=1.96, E.&B.=62 C.Y.

(Calc.) N. 88°41'24" E. 2009.84
Sta. 548+12.90

℄ of Improvement

E.M. 12010-17

N. 41° 22' W. 805.10'

N. 52° 34' W. 9364.65'

543 4 5 6 7 8 9 550 1 2 3 4 5 6 7 8 9 560 1 2 3 4 5 6 7 568

E 100-239

(Calc.) S. 88°41'24" W. 3200.10'
Section Line

℄ of Survey

See new paper print

Δ = 6°34'
R = 10000
T = 573.68'
L = 1148.10'

E 44+48.44 B.C.

18 7 --Section Corner

Sta 551+50 - Place 24" x 48' C.M.P.
Build 2 Std. H.W's. - S=74, C=1.96, E.&B. 62 C.Y.

D:23-180, O.R. 11251-301
Walter B. & Walter W. Ralphs; Trustees.

Gorman Telephone Line (Sou Calif.)

Creek

Sta 556+00 - Place 24" x 56' C.M.P.
Build 1 Std. H.W - S=37, C=0.98, E.&B. 61 C.Y.

561+54 P.O.T. EQUATION

565+97.16 B.C.

Δ = 23°19'
R = 3000'
T = 619.00'
L = 1220.86'

N. 52° 34' W. 443.06'

E 100-239
See new paper print

General Pipe Line Co. of Calif.

Sta. 565+88 - Place 6' x 9' x 78' Box Culvert.
(Cattle Pass) Az. 16° S=10,000, #C=115, E.&B. 190 C.Y.

Sta 560+50 - Place 24" x 58' C.M.P.
Build 1 Std. H.W - S=37, C=0.98, E.&B.=77 C.Y.

B.M. No. 70
Elev. 362.054
1" Iron Pipe (Md. of Rock)
50' Lt. Sta. 552+70

All Cut Slopes 1:1

B.M. No. 71
Elev. 362.600
Spike in 36" Cottonwood
217' Rt. Sta. 561+50

Width of Roadbed 41 feet
Profile Grade is 3" above Finished Crown
Fill Slopes 6:1

Width of Roadbed 38 feet
Profile Grade is 2" above Finished Crown
Fill Slopes 1½:1

| | | |

DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
VII	LA	4	J	28	34

D.W. Trotsyon
Dist. Eng. Dist. VII
Approved: May 25, 1931
Fred Rummon
Engineer, Surveys and Plans.

Sec. 18

Section Cor. Stake Mkd "T 8 N R 18 W S 18" on SE, S 7 on N1, T 8 N R 19 W S 12" on NW, S 13" on SW

T. 8 N. R. 18 W. S. B. B. & M.

Sec. 7

Sta 546+00 - Place 24"x 48' C.M.P.
Build 2 Std. H.W's - S=.74 C=1.96, E.&B.=62 C.Y.

(Calc) N. 88°47'24" E. 2009.84
Sta 548+12.90

℄ of Improvement

F.M. 12010-17

N 47° 22' W. 805.76'

N. 52°34' W. 9364.65'

Sta 556+00 - Place 24"x 56' C.M.P.
Build 1 Std. H.W. - S=.37 C=.098, E.&B.=61 C.Y.

561+54.10 POT. EQUATION

565+97.16 B.C.

Δ = 23°19'
R = 3000'
T = 619.00'
L = 1220.86'

N 52° 34' W. 443.06'

F.M. 12010-17

50' + 50'

Δ = 6°34'
R = 10,000
T = 573.66'
L = 1148.10'

(Calc) S. 88°47'24" W. 3200.10

Section Line

℄ of Survey

See new paper print

Sta 551+50 - Place 24"x 48' C.M.P.
Build 2 Std. H.W's - S=.74 C=1.96, E.&B. 62 C.Y.

M.M. 3034

Telephone Line (Sou. Calif.)

Gorman Creek

See new paper print

General Pipe Line Co. of Calif.

Sta. 565+88 - Place 6'x 9'x 78' Box Culvert.
(Cattle Pass) Az. 16° S=10,000, C=115, E.&B. 190 C.Y.

Sta 560+50 - Place 24"x 58' C.M.P.
Build 1 Std. H.W. - S=.37 C=.098, E.&B.=77 C.Y.

D: 23-180, O.R. 11251-301
Walter B. & Walter W. Ralphs; Trustees.

Section Corner

B.M. No. 70
Elev. 3620.54
1" Iron Pipe (Md. of Rock)
50' Lt. Sta. 552+70

All Cut Slopes 1:1

B.M. No. 71
Elev. 3626.00
Spike in 36" Cottonwood
217' Rt. Sta. 561+50

Width of Roadbed 41 feet
Profile Grade is 3" above Finished Crown
Fill Slopes 6:1

Width of Roadbed 38 feet
Profile Grade is 2" above Finished Crown
Fill Slopes 1½:1

1200' V.C.

-0.28%

600' V.C.

+2.90%

+2.90%

24"x 48' C.M.P.

24"x 48' C.M.P.

24"x 56' C.M.P.

24"x 58' C.M.P.

6'x 9'x 78' R.C. Box Culv. (Cattle Pass)

	Sta.	543	4	5	6	7	8	9	550	1	2	3	4	5	6	7	8	9	560	1	2	3	4	5	6	7	568
Cu Yds.	Exc.	703 368	703 399	704 229	704 176	704 333	704 301	704 185	705 130	705 245	705 894	705 2329	706 912	706 5	706 8	706 35	707 47	707 74	707 –	707 746	3591	2095	255	58	–	37	
	Emb.	171	176	345	468	225	345	585	722	458	59	–	124	509	350	183	208	343	942	215	–	–	432	2946	2791	1059	

Elev.		3619.17	3619.12	3619.01	3618.73	3618.25	3618.17	3617.89	3617.76	3617.33	3617.05	3616.77	3616.49	3616.35	3616.28	3616.34	3616.53	3616.85	3617.30	3617.90	3618.61	3619.47	3620.46	3621.58	3622.83	3624.21	3625.66	3628.56	3630.36

Elev.		3631.68	3634.58	3637.48	3640.38	3643.28	3646.18	3649.08

561+54.10 POT. EQUATION = 107.61'

F.M. 10561

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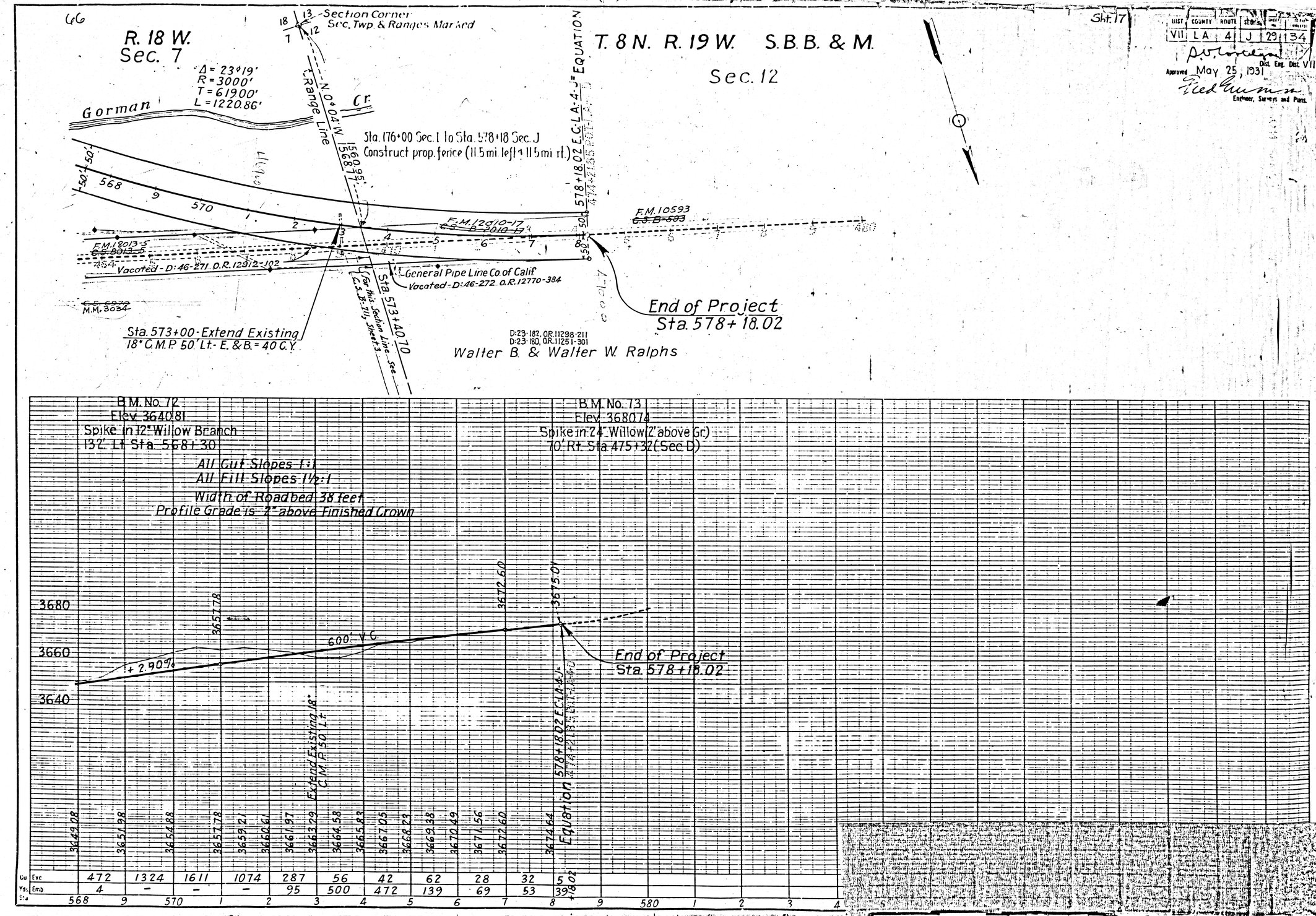
66
Sht. 17
DIST. VII
COUNTY LA
ROUTE 4
SEC. J
29
34
Approved May 25, 1931
Dist. Eng. Dist. VII
Engineer, Surveys and Plans
R. 18 W.
Sec. 7
Δ = 23°19'
R = 3000'
T = 619.00'
L = 1220.86'
Gorman
Cr.
Section Corner
Sec. Twp. & Ranges Marked
N. 0°04' W.
Range Line
Sta. 176+00 Sec. I to Sta. 578+18 Sec. J
Construct prop. fence (11.5 mi left & 11.5 mi rt.)
1560.95'
1568.77'
578+18.02 E.C. LA-4-J = EQUATION
T. 8 N. R. 19 W. S.B.B. & M.
Sec. 12
F.M. 10593
F.M. 12010-17
F.M. 18013-5
Vacated - D: 46-271 O.R. 12912-102
General Pipe Line Co. of Calif
Vacated - D: 46-272 O.R. 12770-384
Sta. 573+40.70
(For this Section Line See C.S.B. 711, Sheet 3)
M.M. 3034
Sta. 573+00 - Extend Existing
18" C.M.P. 50' Lt. - E. & B. = 40 C.Y.
End of Project
Sta. 578+18.02
D: 23-182, O.R. 11298-211
D: 23-180, O.R. 11251-301
Walter B. & Walter W. Ralphs
B.M. No. 72
Elev. 3640.81
Spike in 12" Willow Branch
132' Lt. Sta. 568+30
B.M. No. 73
Elev. 3680.74
Spike in 24" Willow (2' above Gr.)
70' Rt. Sta. 475+32 (Sec. D)
All Cut Slopes 1:1
All Fill Slopes 1½:1
Width of Roadbed 38 feet
Profile Grade is 2" above Finished Crown
3680
3660
3640
+2.90%
600' V.C.
3657.78
3672.60
3675.01
End of Project
Sta. 578+18.02
Extend Existing 18" C.M.P. 50' Lt.
Equation 578+18.02 E.C. LA-4-J
3649.08
3651.98
3654.88
3657.78
3659.21
3660.61
3661.97
3663.29
3664.58
3665.83
3667.05
3668.23
3669.38
3670.49
3671.56
3672.60
3674.64
Cu. Exc. 472 1324 1611 1074 287 56 42 62 28 32 5
Yds. Emb. 4 – – – 95 500 472 139 69 53 39
Sta. 568 9 570 1 2 3 4 5 6 7 8 9 580 1 2 3 4
F.M. 10561
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