

SANFORD

STATE OF MAINE
STATE HIGHWAY COMMISSION

PLAN AND PROFILE
STATE HIGHWAY "A-2"
SANFORD

YORK COUNTY
FEDERAL AID PROJECT NO. 294-D

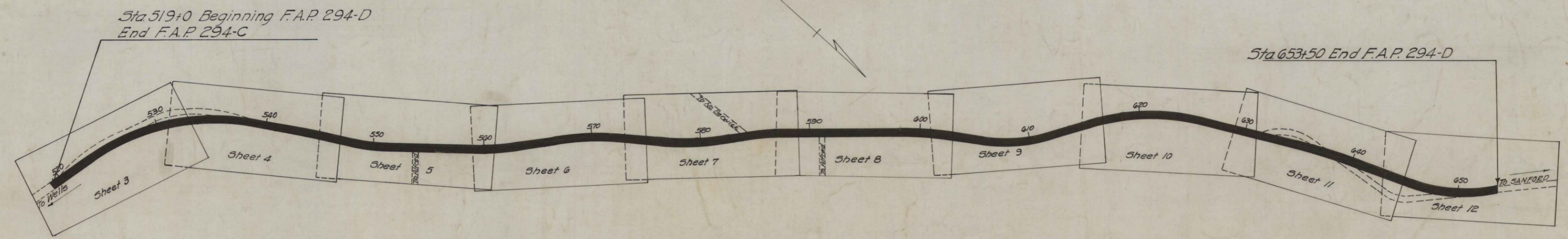
CONVENTIONAL SIGNS

STATE OR NATIONAL LINE	-----	SURVEY LINE	-----
COUNTY LINE	-----	CULVERT	-----
TOWN LINE	-----	DROP INLET	-----
UNFENCED PROPERTY	-----	TROLLEY POLE	-----
FENCE	-----	POWER POLE	-----
RIGHT OF WAY LINE	-----	TEL. POLE	-----
TRAVELED WAY	-----	MARSH	-----
RAILROAD	-----	TREES	-----
RETAINING WALL	-----	STONE WALL	-----

INDEX OF SHEETS

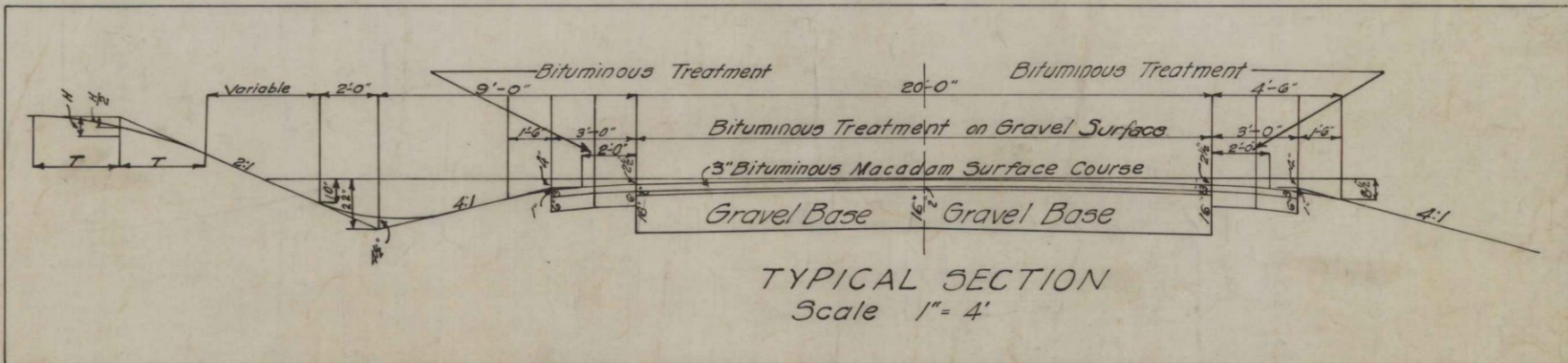
SHEET NO. 1	TITLE PAGE	STA. 519+00 to 653+50
SHEET NO. 2	TYPICAL SECTIONS	
SHEET NO. 3 to 12	PLAN AND PROFILE	STA. 519+00 to 653+50
SHEET NO. 13 to 30	CROSS-SECTIONS	STA. 519+00 to 653+50
SHEET NO.	BRIDGES	STA.
SHEET NO.	SPECIAL DETAILS	

TOTAL LENGTH 2.547 MILES
 PLAN 1 IN. = 50 FT.
 PROFILE HOR. 1 IN. = 50 FT.
 VER. 1 IN. = 5 FT.
 CROSS SECTIONS 1 IN. = 5 FT.

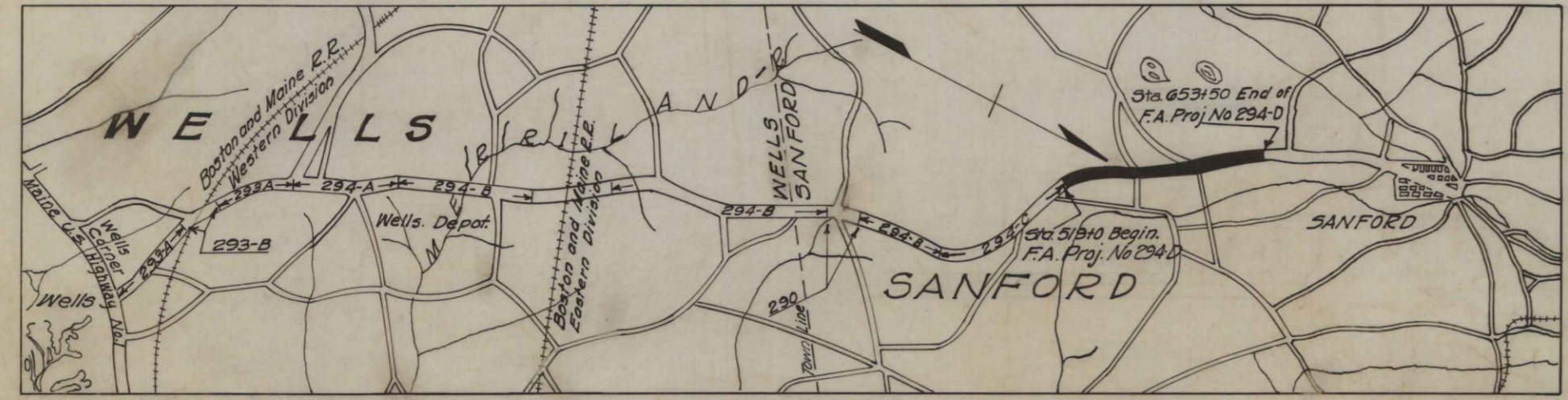


All work contemplated under this contract to be governed by and in conformity with the Specifications, Approved Oct. 26, 1937 except as modified on these plans.

LAYOUT SHEET
Scale 1 inch = 500 feet



TYPICAL SECTION
Scale 1" = 4'



A PORTION OF YORK COUNTY
Scale 1 inch = 1 mile

APPROVED:
MAINE STATE HIGHWAY COMMISSION

Paul C. Ruston
CHAIRMAN

[Signature]

[Signature]

[Signature]

[Signature]
CHIEF ENGINEER

APPROVED:
U. S. BUREAU OF PUBLIC ROADS

[Signature]
DISTRICT ENGINEER

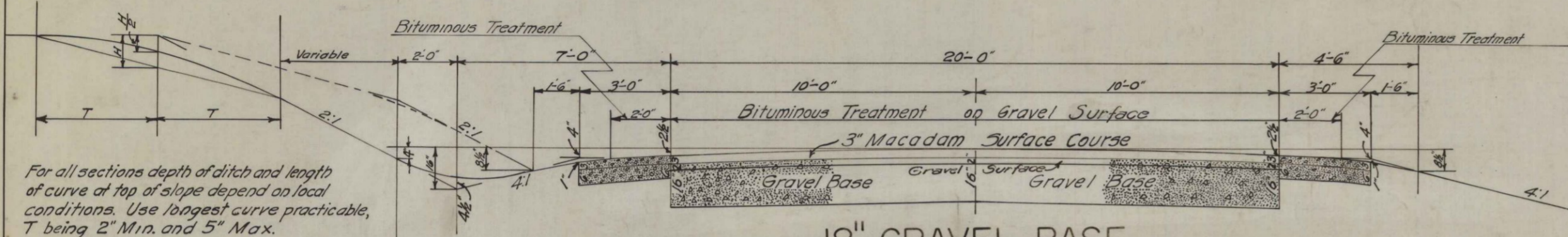
[Signature]
CHIEF ENGINEER

[Signature]
DIRECTOR

AA 29

BITUMINOUS MACADAM SURFACE COURSE

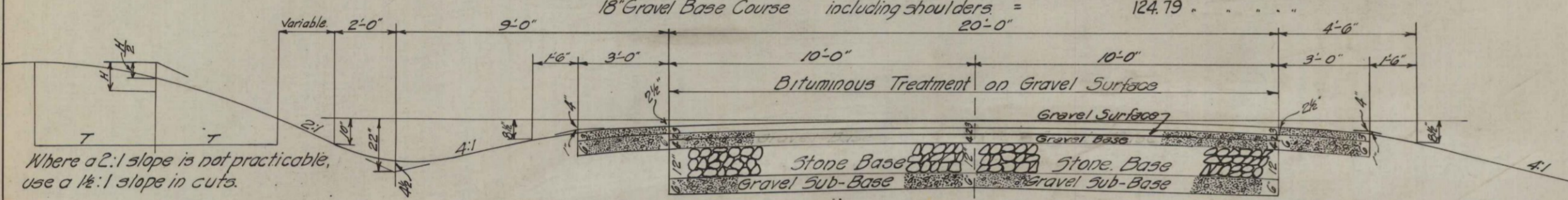
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
29A-D	MAINE	29A-D	2	30



For all sections depth of ditch and length of curve at top of slope depend on local conditions. Use longest curve practicable, T being 2" Min. and 5" Max.

16" Gravel Base Course - 2" Gravel Surface Course
Sta. 522+75 to 523+50
523+0 to 523+50

22" Gravel Base Course - 2" Gravel Surface Course
Sta. 519+0 to 520+50



Where a 2:1 slope is not practicable, use a 1 1/2:1 slope in cuts.

12" Stone Base Course
Sta. 519+0 to 522+75
520+50 to 523+0

Curves of 1° or more shall be super-elevated. B' the full bank for 20' width equals 3 times the degree of curve, with a minimum of 5' super-elevation. Maximum bank shall not exceed 1' per foot of width of pavement.

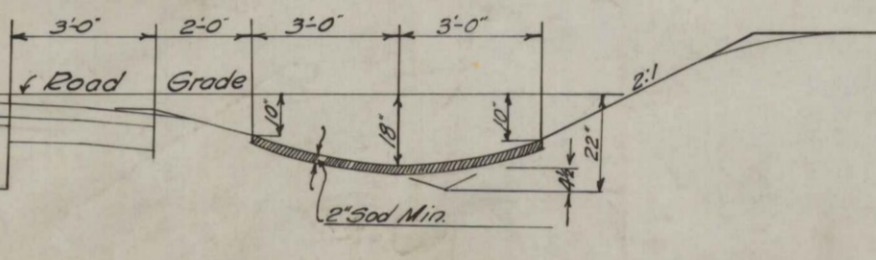
All curves shall have a full super-elevation at approximately the P.C. and P.T. of the curve with a transition of 150' unless otherwise specified.

Super-elevating may be limited by unusual conditions.

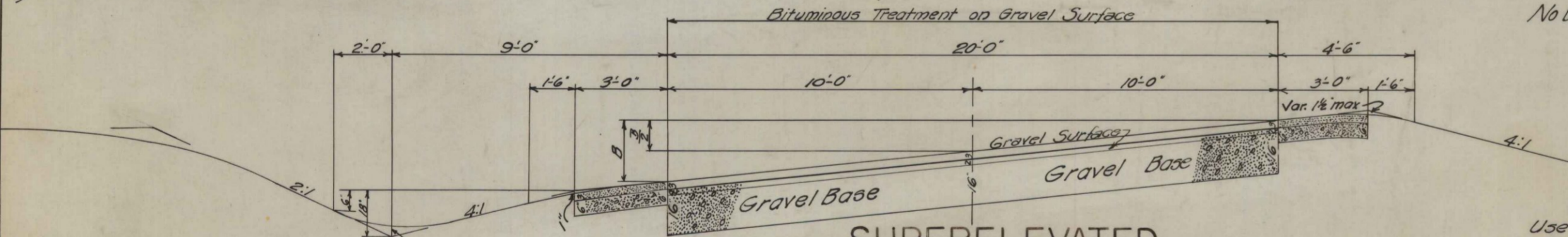


LEDGE & GUARD RAIL

12" Gravel Base Course including shoulders = 87.76 c.y. per 100 L.F.
16" Gravel Base Course including shoulders = 112.44



SODDED GUTTER
area 5Y per lin.ft.

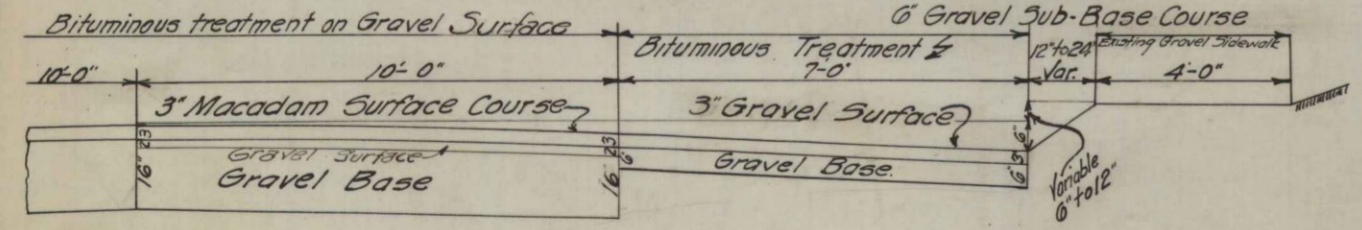


SUPERELEVATED

4" Gravel Base Course including shoulders = 35.81 c.y. per 100 L.F.
12" Gravel Base Course including shoulders = 85.19
15" Gravel Base Course including shoulders = 103.70
16" Gravel Base Course including shoulders = 109.87
12" Stone Base Course = 74.07
6" Gravel Sub-Base Course = 37.04

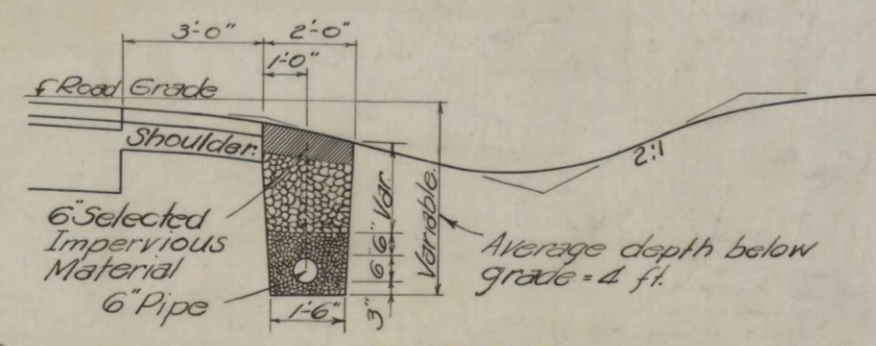
Use only 4:1 slope or Guard Rail on outside of super-elevated curve.

Construct berm ditch where needed.



7" GRAVEL PARKWAY

Sta. 551+50 to 553+50 Right
3" Gravel Surface Course = 6.48 c.y. per 100 L.F.
6" Gravel Base Course = 12.96



UNDERDRAIN

ESTIMATED QUANTITIES

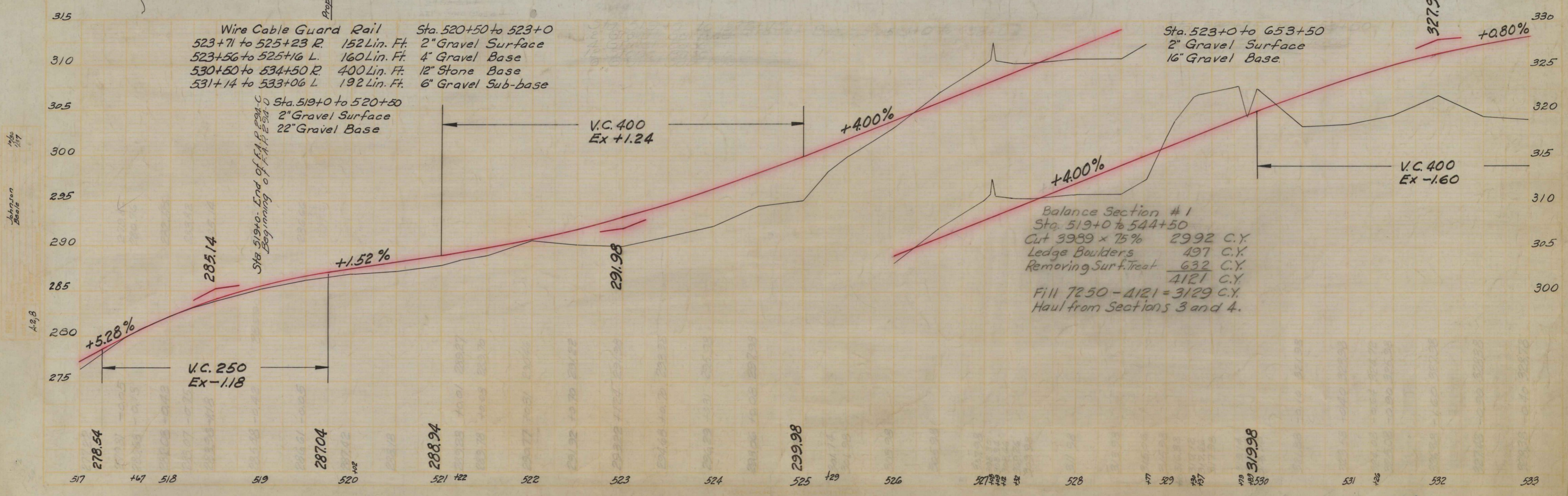
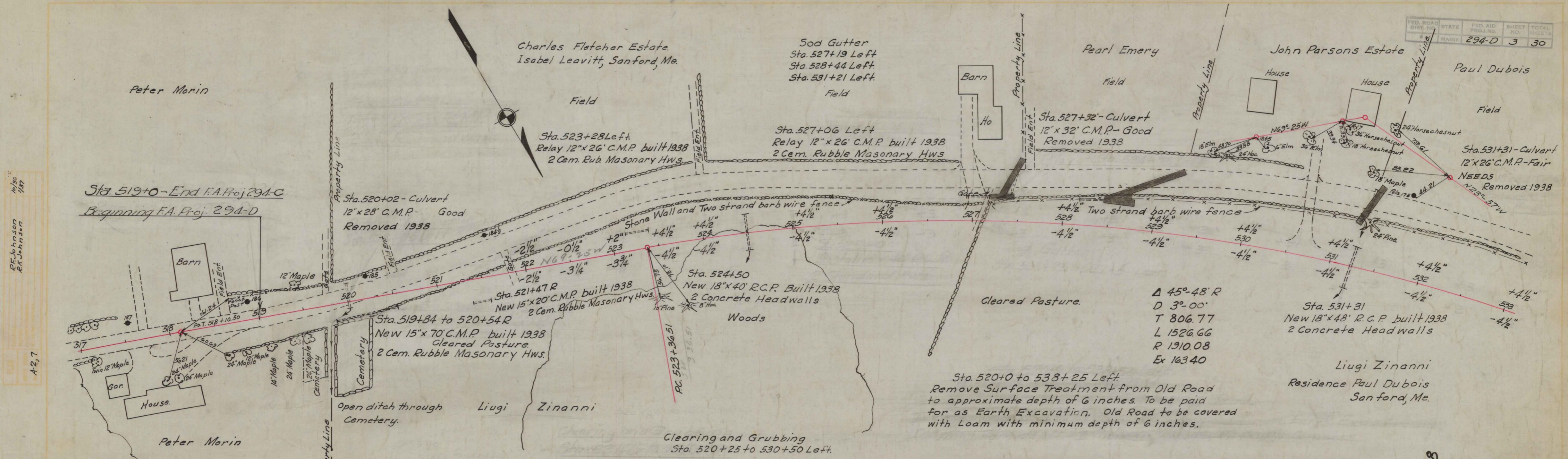
ITEM	DESCRIPTION	QUANT.	UNIT
11	Clearing and Grubbing	2.26	Acres
12-A	Earth Excavation	236.38	C.Y.
12-B	Rock Excavation	49	C.Y.
12-C	Trees Removed	10	Each
13	Excavation for Structures	1005	C.Y.
17-A	Common Borrow	236	C.Y.
20	Gravel Sub-base	99	C.Y.
23	Gravel Base	15,899	C.Y.
24	Stone Base	185	C.Y.
27	Gravel Surface	2,716	C.Y.
29-A	Bituminous Macadam Surface	2,499	C.Y.
29-B	Emul. Asphalt furnished and applied	81,370	Gals.
35-B	Class "B" Concrete	24.2	C.Y.
36	Steel reinf. for Concrete structures	80	Lbs.
38	Cement Rubble Masonry	27	C.Y.
40-A	12" Corrugated Metal Pipe	1,464	Lin. Ft.
40-B	15" Corrugated Metal Pipe	90	Lin. Ft.
40-C	18" Corrugated Metal Pipe	186	Lin. Ft.
40-J	Relaying 12" Cor. Metal Pipe	64	Lin. Ft.
41-E	24" Asphalt Coated Cor. Metal Pipe	60	Lin. Ft.
43-B	15" Reinforced Concrete Pipe	56	Lin. Ft.
43-C	18" Reinforced Concrete Pipe	300	Lin. Ft.
45-A	Drop Inlet - Type A.	5	Each
45-B	Drop Inlet - Type B.	3	Each
48-A	Underdrain - Type A.	300	Lin. Ft.
51-A	Wire Cable Guard Rail	3,418	Lin. Ft.
51-B	Anchorage for Wire Cable Guard Rail	36	Each
52	Loam	1,108	C.Y.
54	Sodding	1,821	Sq. Yds.
55	Bituminous Treatment	25,897	Gals.
57	Dynamite for Swamp	336	Lbs.

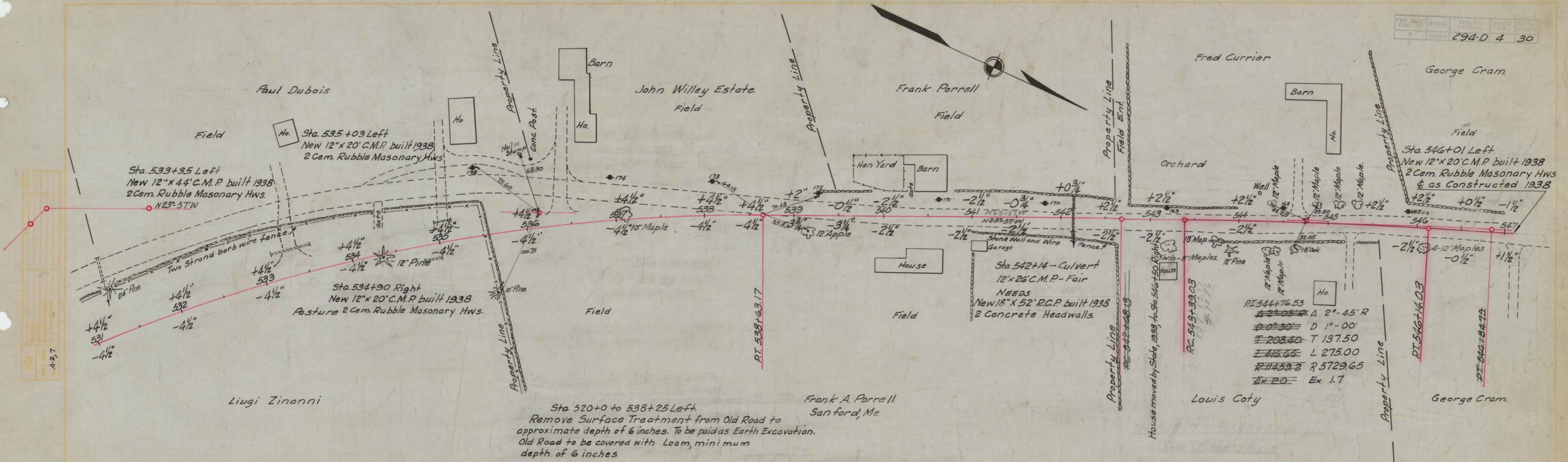
ROADWAY CULVERTS

STATION	DIMENSIONS	KIND	REMARKS
524+50	18" x 40'	R.C.P.	Conc. Headwalls R and L
531+31	18" x 48'	R.C.P.	Conc. Headwalls R and L
542+14	18" x 52'	R.C.P.	Conc. Headwalls R and L
559+00	18" x 40'	R.C.P.	Special Hw Left Drop Inlet Right
574+15	18" x 36'	R.C.P.	Special Hw Left Drop Inlet Right
584+00	15" x 56'	R.C.P.	Drop Inlets R and L
603+19	18" x 40'	R.C.P.	Conc. Headwalls R and L
608+22	18" x 44'	R.C.P.	Conc. Hw R, Drop Inlet L
636+79	24" x 60'	A.C.C.M.P.	No Headwalls

DRIVEWAY CULVERTS

STATION	SIDE	DIMENSIONS	REMARKS
519+84 to 520+54	Right	15" x 70"	2 C.R.M. Headwalls
521+47	Right	15" x 20'	2 C.R.M. Headwalls
523+28	Left	12" x 26'	2 C.R.M. Headwalls
527+06	Left	12" x 26'	2 C.R.M. Headwalls
528+30	Left	12" x 28'	2 C.R.M. Headwalls
533+35	Left	12" x 44'	2 C.R.M. Headwalls
535+03	Left	12" x 20'	2 C.R.M. Headwalls
534+90	Right	12" x 20'	2 C.R.M. Headwalls
546+01	Left	12" x 20'	2 C.R.M. Headwalls
547+50	Left	12" x 12'	No Headwalls
548+75 to 549+65	Left	12" x 90'	2 C.R.M. Headwalls
565+42	Right	12" x 24'	2 C.R.M. Headwalls
565+21 to 565+75	Left	12" x 54'	2 C.R.M. Headwalls
568+50	Right	12" x 20'	2 C.R.M. Headwalls
575+12	Right	12" x 24'	2 C.R.M. Headwalls
578+84 to 579+32	Right	12" x 48'	2 C.R.M. Headwalls
580+90	Right	12" x 20'	2 C.R.M. Headwalls
582+82	Left	18" x 20'	No Headwalls
583+25 to 584+0	Left	18" x 100'	1 Concrete Headwall
584+0 to 586+64	Left	12" x 264'	1 Drop Inlet
585+12	Right	12" x 20'	2 C.R.M. Headwalls
587+44	Right	12" x 20'	2 C.R.M. Headwalls
587+82	Left	12" x 20'	2 C.R.M. Headwalls
602+35	Right	12" x 20'	2 C.R.M. Headwalls
606+71	Left	12" x 20'	2 C.R.M. Headwalls
618+31	Left	12" x 20'	2 C.R.M. Headwalls
618+68	Right	12" x 20'	2 C.R.M. Headwalls
621+60	Right	12" x 20'	2 C.R.M. Headwalls
621+42 to 624+76	Left	12" x 334'	1 C.R.M. Headwall
624+0 to 626+0	Right	12" x 200'	1 C.R.M. Headwall
627+32	Left	12" x 24'	2 C.R.M. Headwalls
628+42	Right	12" x 30'	2 C.R.M. Headwalls
638+39	Right	18" x 66'	1 C.R.M. Headwall
645+12	Right	12" x 20'	2 C.R.M. Headwalls
645+04	Left	12" x 20'	2 C.R.M. Headwalls

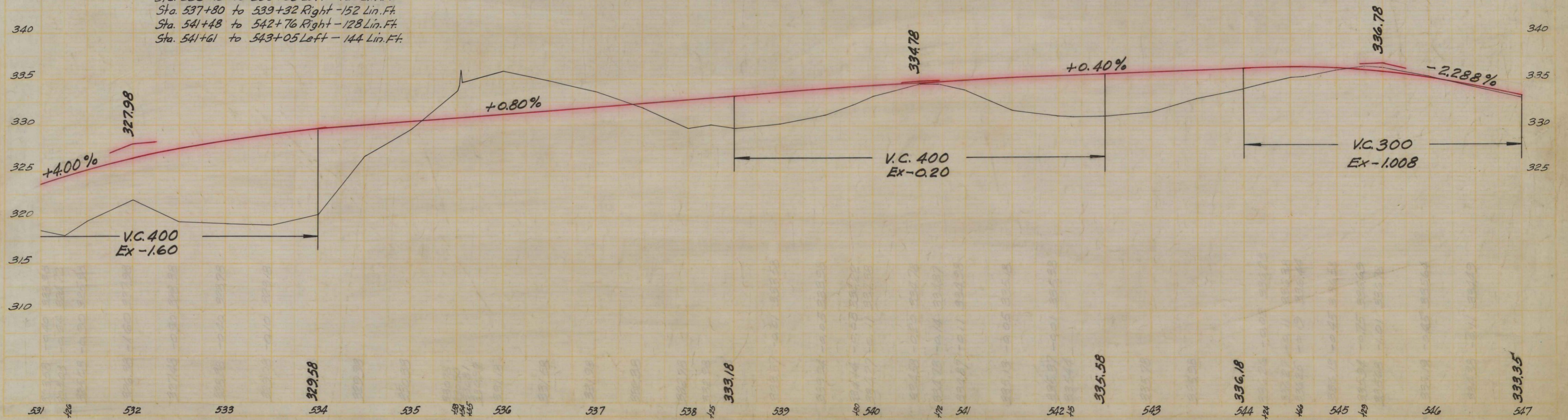


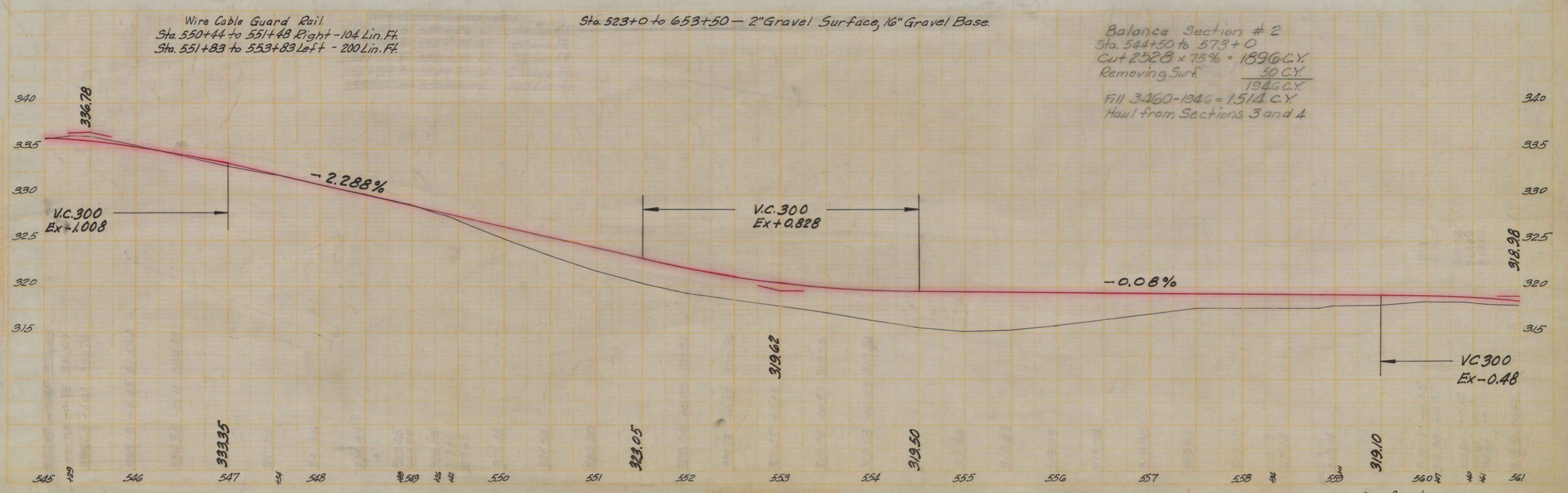
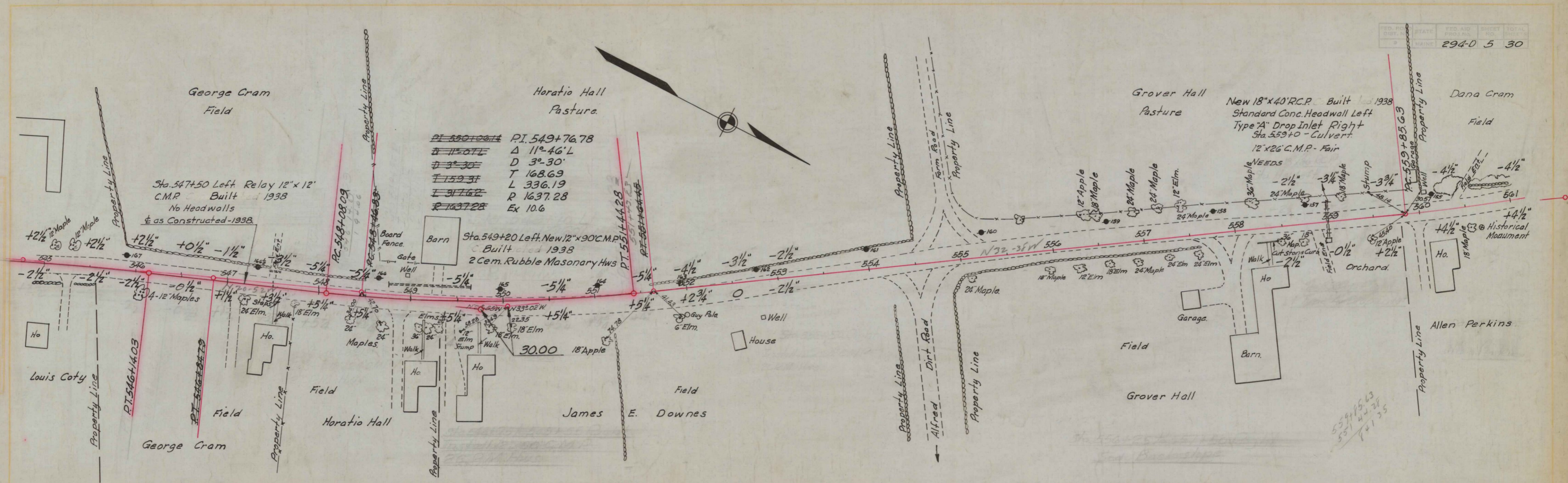


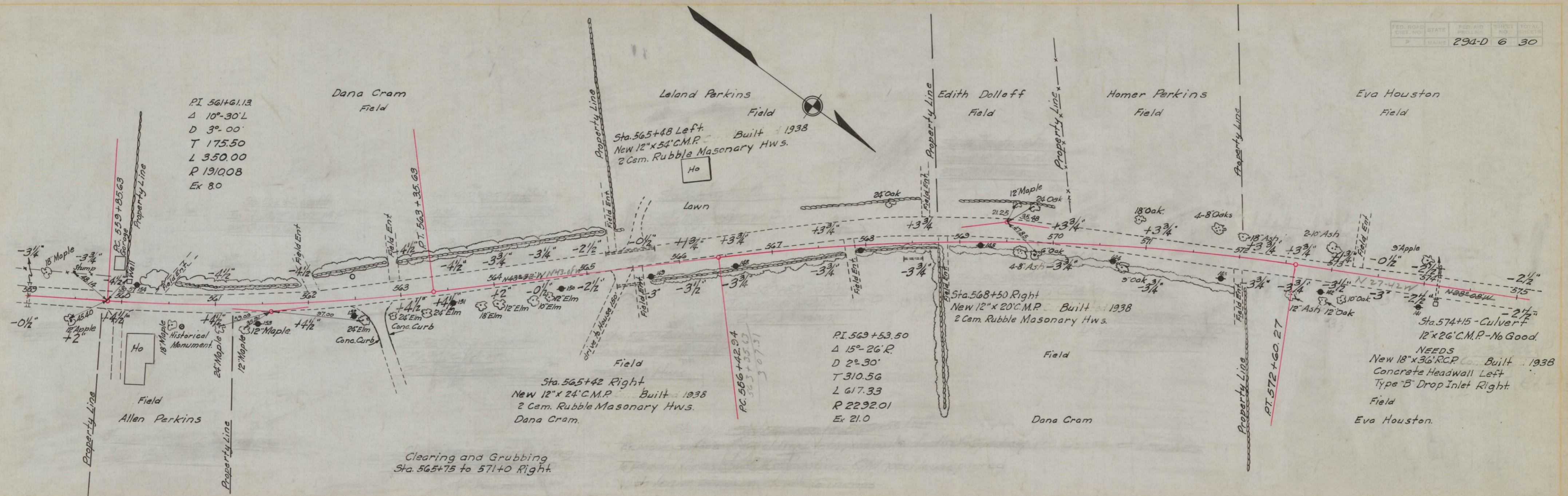
Sta. 520+0 to 538+25 Left.
Remove Surface Treatment from Old Road to approximate depth of 6 inches. To be paid as Earth Excavation. Old Road to be covered with Loam, minimum depth of 6 inches.

Sta. 523+0 to 653+50 - 2" Gravel Surface, 16" Gravel Base.

Wire Cable Guard Rail.
Sta. 533+35 Left - 15 Single Posts - 45 Lin. Ft.
Sta. 533+66 to 534+30 Left - 64 Lin. Ft.
Sta. 538+13 to 539+33 Left - 120 Lin. Ft.
Sta. 537+80 to 539+32 Right - 152 Lin. Ft.
Sta. 541+48 to 542+76 Right - 128 Lin. Ft.
Sta. 541+61 to 543+05 Left - 144 Lin. Ft.







PI 561+61.13
 $\Delta 10^{\circ}30' L$
 $D 3^{\circ}00'$
 $T 175.50$
 $L 350.00$
 $R 1910.08$
 $Ex 8.0$

Sta. 565+42 Right
 New 12'x24' C.M.P. Built 1938
 2 Cem. Rubble Masonary Hws.
 Dana Cram.

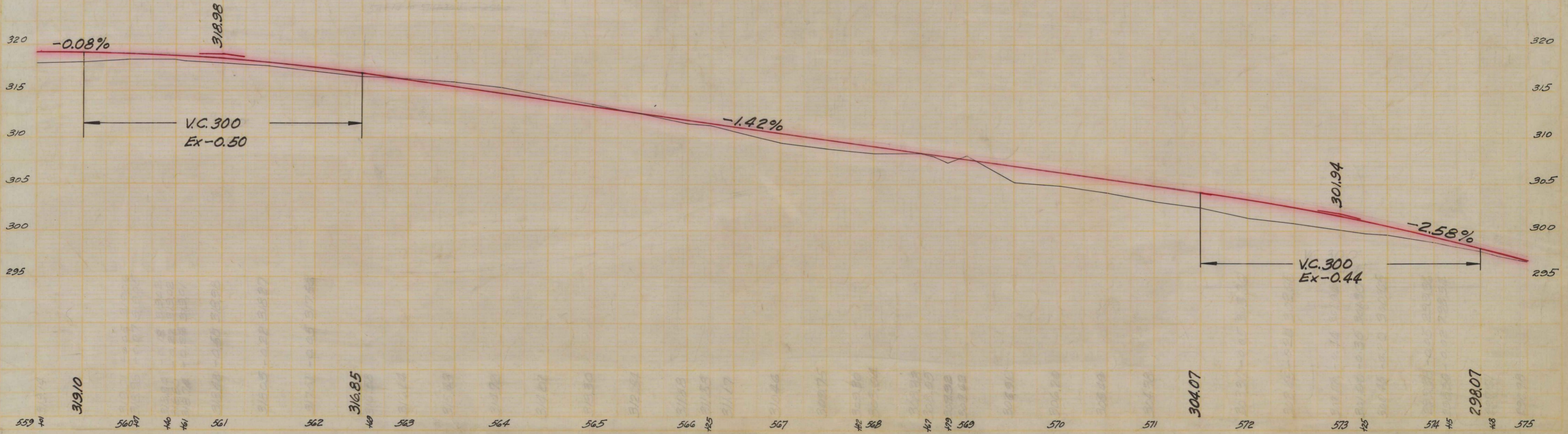
PI 563+53.50
 $\Delta 15^{\circ}26' R$
 $D 2^{\circ}30'$
 $T 310.56$
 $L 617.33$
 $R 2292.01$
 $Ex 21.0$

Sta. 574+15 - Culvert
 12'x26' C.M.P. - No Good.
 NEEDS
 New 18'x36' R.C.P. Co. Built 1938
 Concrete Headwall Left
 Type 'B' Drop Inlet Right
 Field
 Eva Houston.

Clearing and Grubbing
 Sta. 565+75 to 571+0 Right

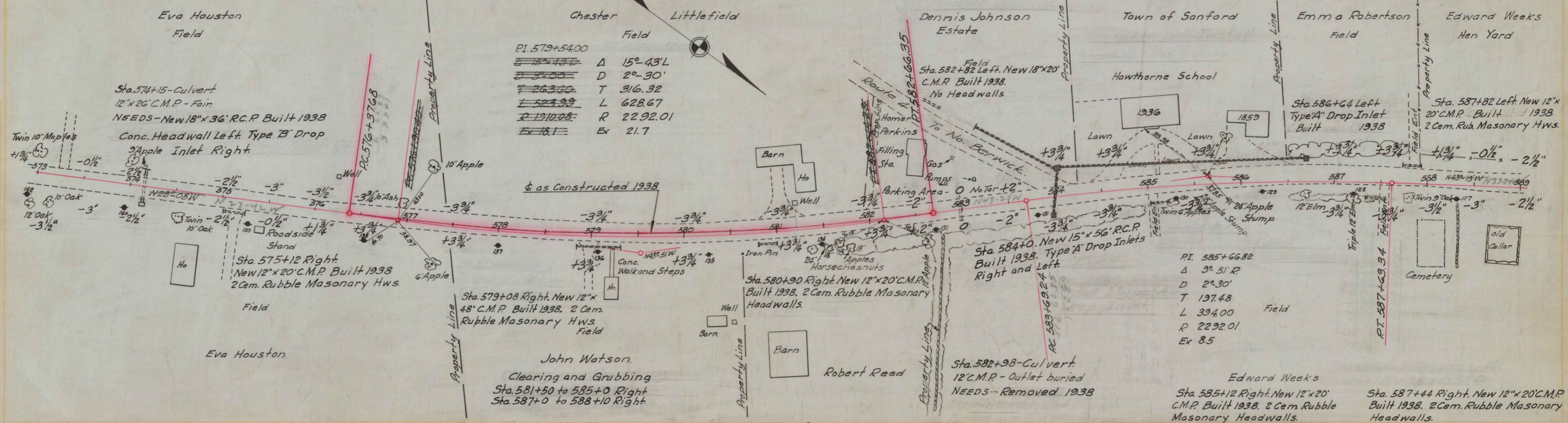
Sta. 523+0 to 653+50 - 2" Gravel Surface, 16" Gravel Base.

Wire Cable Guard Rail.
 Sta. 571+74 to 574+30 Left - 256 Lin. Ft.



Sta. 583+25 to 584+0 Left. New 18"x100' C.M.P. Built 1938. 1 Concrete Headwall.

Sta. 584+0 to 586+64 Left. New 12"x264' C.M.P. Built 1938



PI. 579+54.00

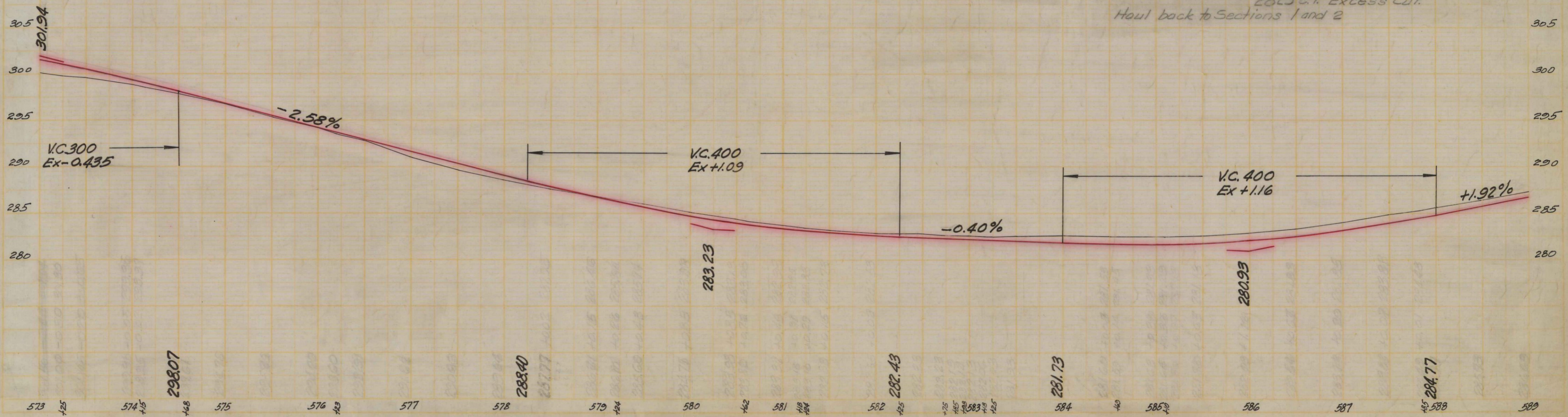
15° 43'	Δ	15° 43' L
3° 30'	D	2° 30'
263.30	T	316.32
523.99	L	628.67
1910.08	R	2292.01
18.1	Ex	21.7

PI. 585+66.82

9° 51'	Δ
2° 30'	D
197.48	T
394.00	L
2292.01	R
8.5	Ex

Sta. 523+0 to 653+50 - 2" Gravel Surface, 16" Gravel Base.

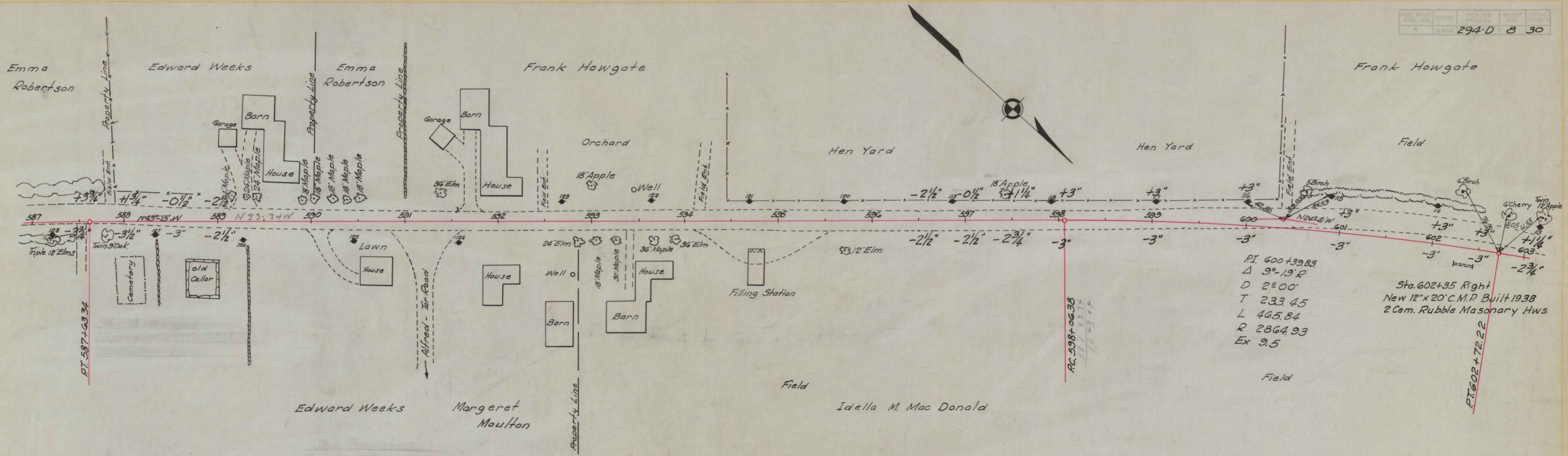
Balance Section #3
 Sta. 573+0 to 597+0
 Cut 4037 x 75% 3073 C.Y.
 Fill 250 C.Y.
 2823 C.Y. Excess Cut.
 Haul back to Sections 1 and 2



10/36
1/37
D.F. Johnson
E.F. Johnson
A-3.7

AD 29

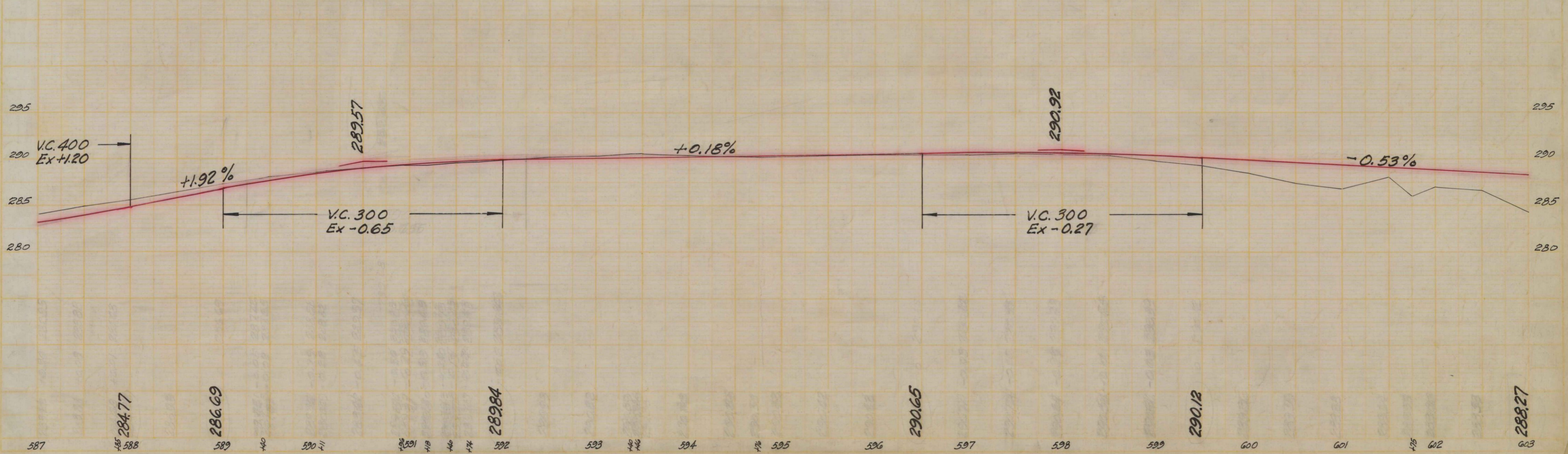
10/36
1/37
Johnson
Beane
A-3.8

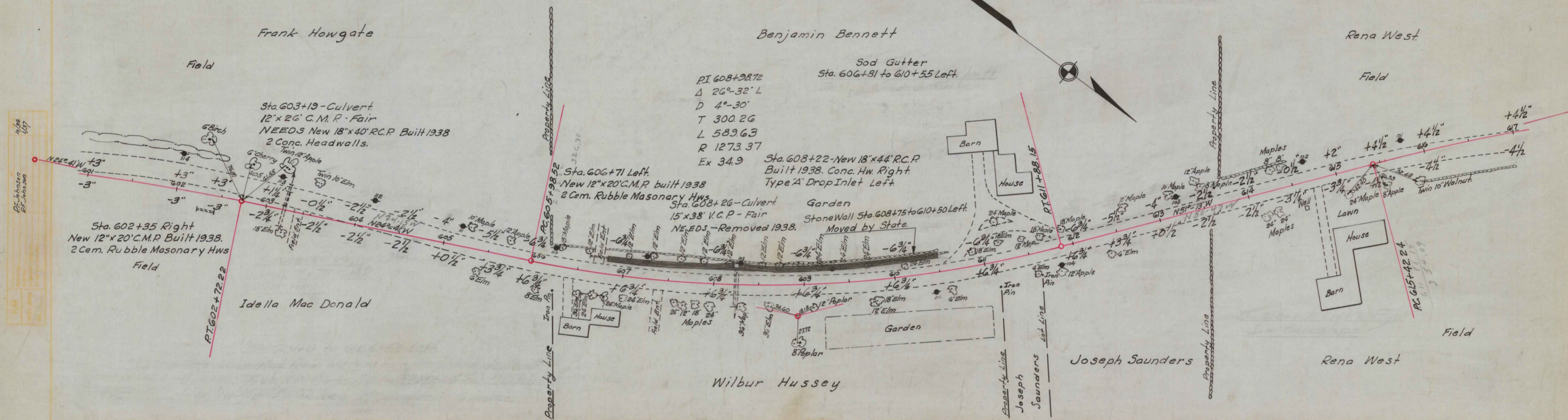


PI 600+39.83
 Δ 9°-13'R
 D 2°00'
 T 233.45
 L 465.84
 R 2864.93
 Ex 9.5

 Sta. 602+35 Right
 New 12" x 20" C.M.P. Built 1938
 2 Cem. Rubble Masonry Hws
 PI 602+72.22

Sta. 523+0 to 653+50 - 2" Gravel Surface, 16" Gravel Base.



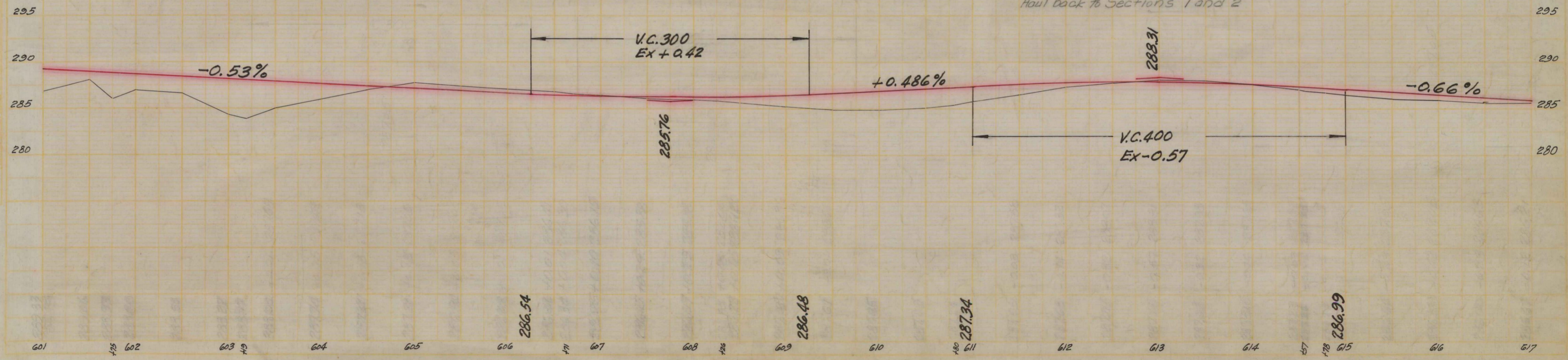


10/26
1/27
Johnston Beale

Wire Cable Guard Rail.
 Sta. 603+19 Left 2 Single Posts. 6 Lin. Ft.
 Sta. 608+07 Right 1 Single Post 3 Lin. Ft.
 Sta. 608+52 Right 1 Single Post 3 Lin. Ft.
 Sta. 609+05 to 611+05 Right 200 Lin. Ft.

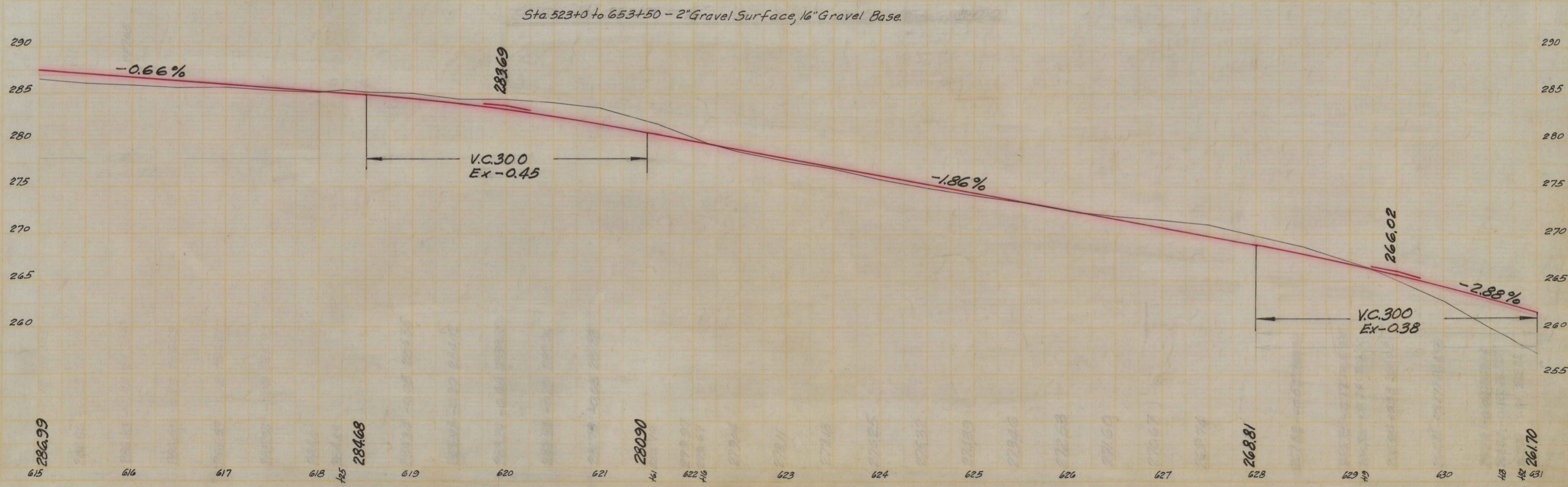
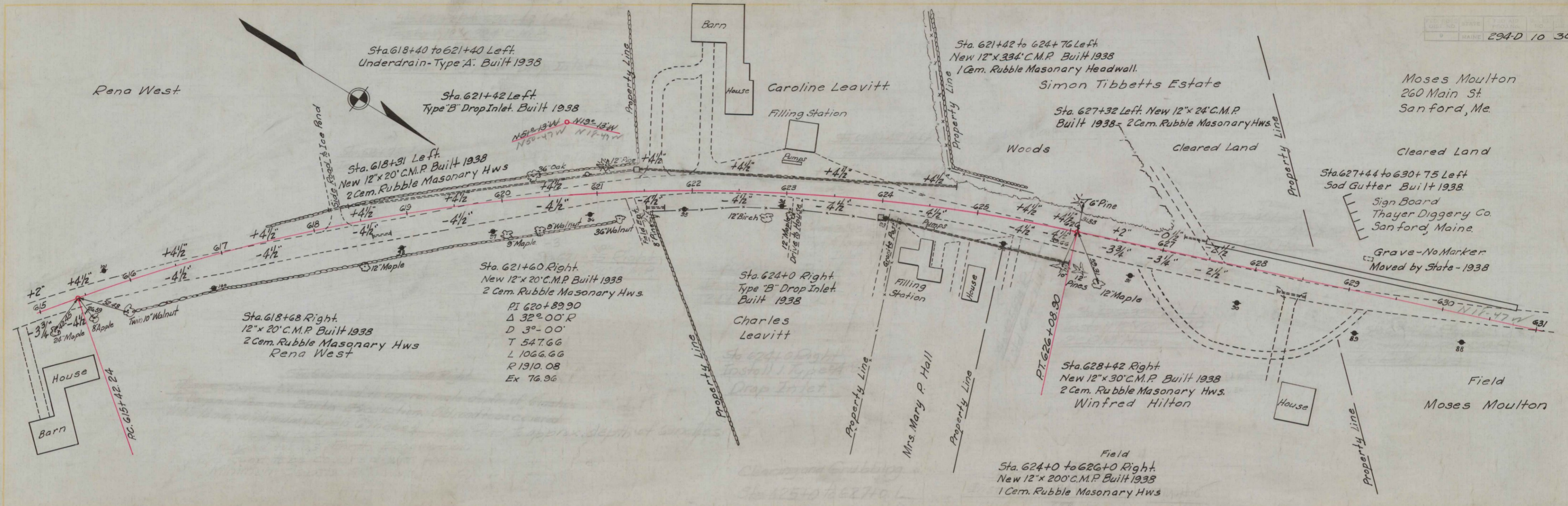
Sta. 523+0 to 653+50 - 2" Gravel Surface, 16" Gravel Base.

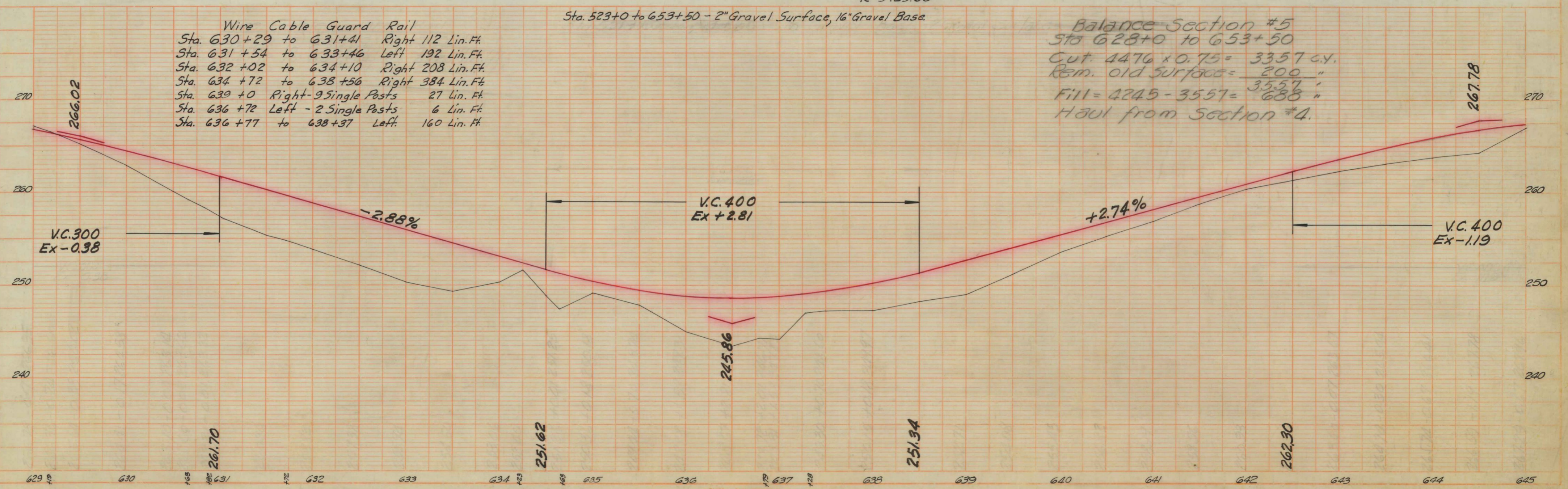
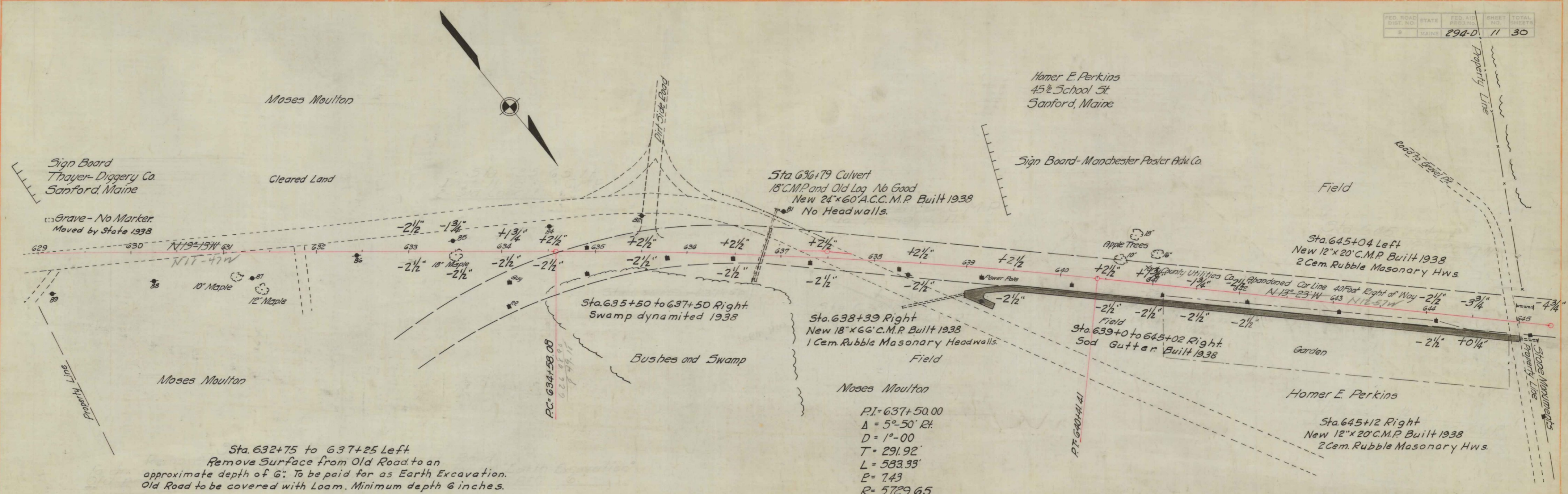
Balance Section # 4.
 Sta. 597+0 to 628+0.
 Cut 5335 x 75% 4001 C.Y.
 Ledge Boulders 125 C.Y.
 Removing Surf. 100 C.Y.
 4226 C.Y.
 Fill 1182 C.Y.
 3044 C.Y. Excess Cut.
 Haul back to Sections 1 and 2



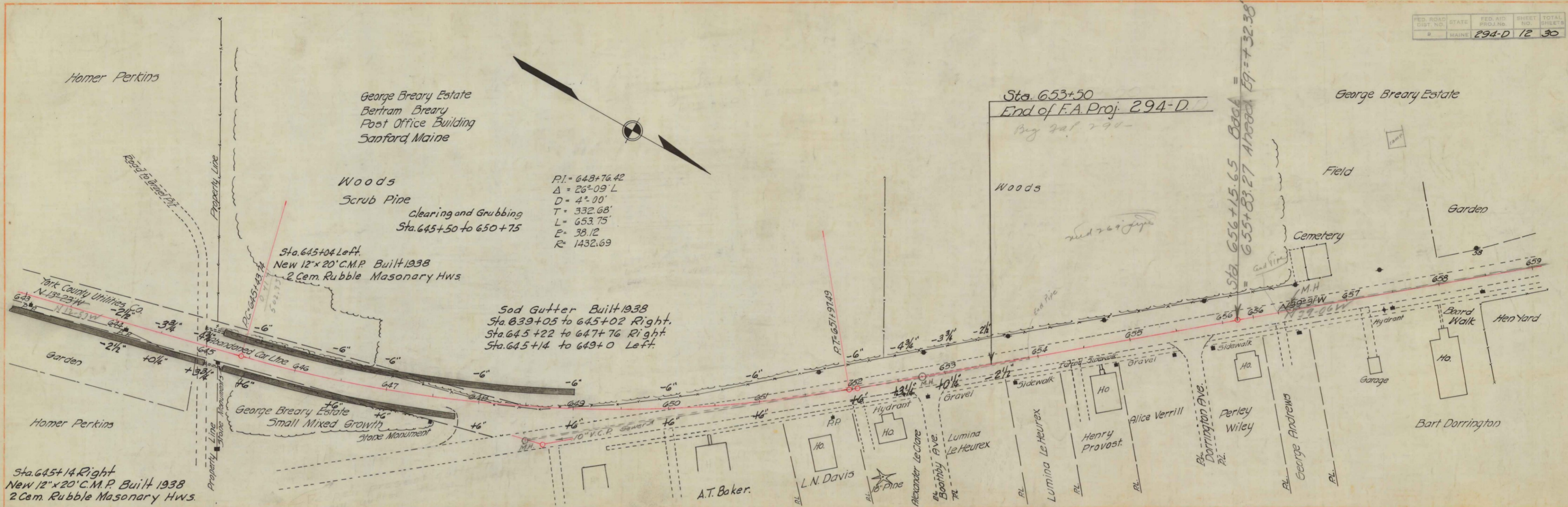
R.F. Johnson
10/26/37

R.F. Johnson
10/26/37

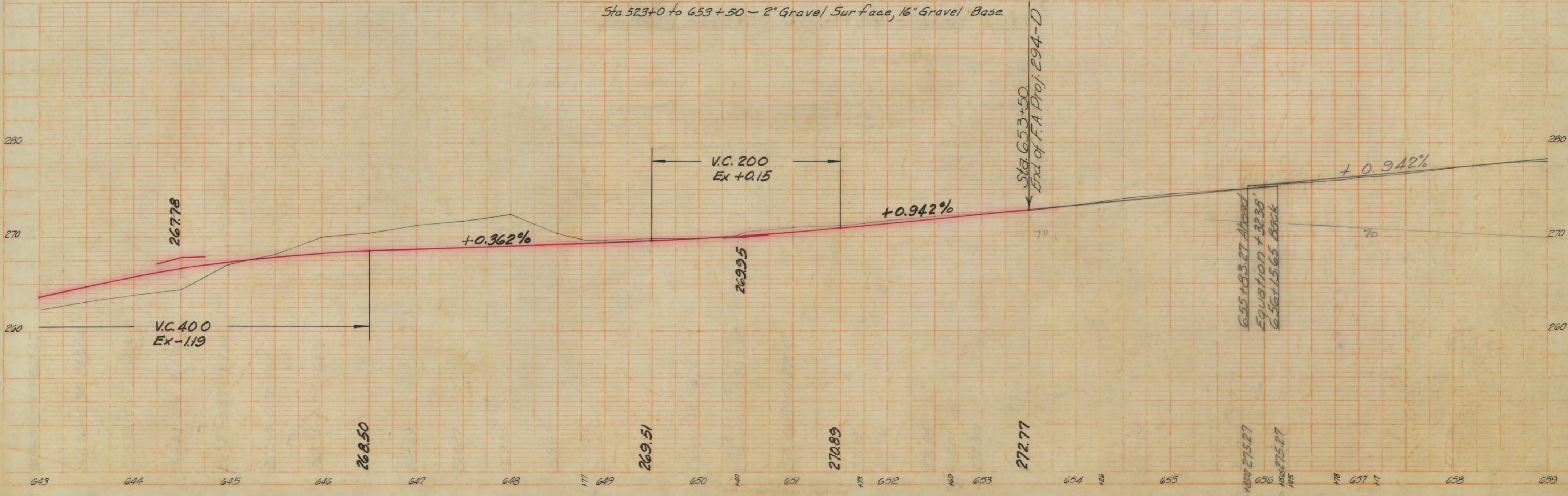




FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MAINE	294-D	12	30



Sta. 523+0 to 653+50 - 2" Gravel Surface, 16" Gravel Base.



NOTES:
 1. ALL WORK TO BE ACCORDING TO STANDARD SPECIFICATIONS FOR MAINE HIGHWAYS.
 2. ALL DISTANCES TO BE MEASURED ALONG THE CENTERLINE OF THE ROAD.
 3. ALL GRADES TO BE IN PERCENTS.
 4. ALL CURVES TO BE PARABOLIC.
 5. ALL GRADES TO BE CHECKED BY AN INSTRUMENT CHECKER.
 6. ALL WORK TO BE COMPLETED BY 10/1/38.

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