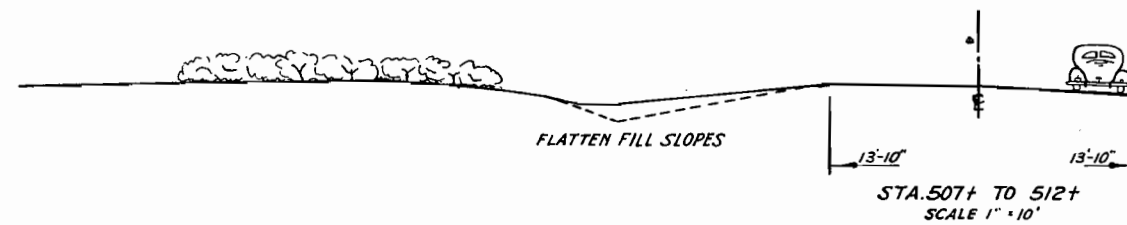


FED. ROAD DIST. NO.	STATE	COMB. F.A.P. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A (3) 194-C (1) 151-D (2) LANDSCAPING	2	

Note:
Slope rounding shall be variable as required by
ground conditions and as shown on cross-section
sheets.



Technical drawing of a log rail fence showing side and end views with dimensions and construction notes.

Side View Dimensions:

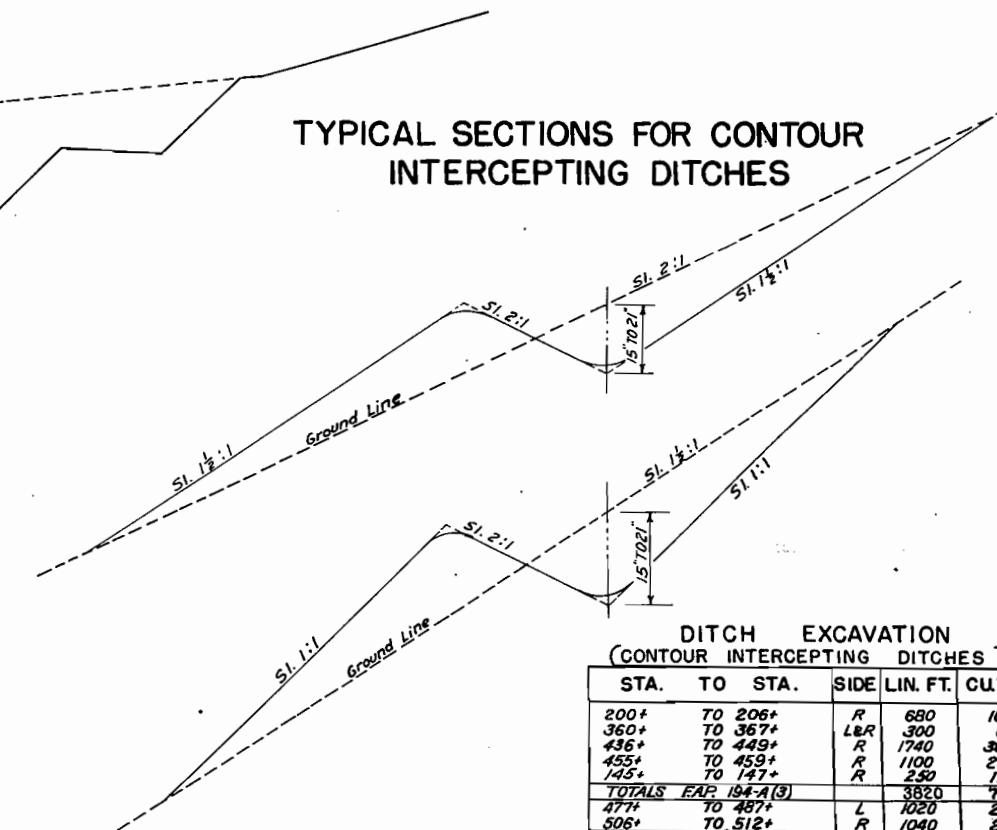
- Top rail segments: 3'-0", 3'-0", 3'-0", 10'-0", 3'-0"
- Post spacing: 17"
- Ground Line
- Post and Rails 9" to 10" Peeled Logs

End View Dimensions:

- Post diameter: 4 1/2"
- Post notch depth: 6 1/2"
- Post notch width: 3"
- Post notch height: 18"

Notes:

- Post notched for Rail
- 18" x 3" Galvanized iron bolt, malleable washer each side.
- Countersink bolt head and washer.
- NOTE: Timber shall be Lodgepole Pine treated as specified under Item 42 of the Standard Specifications. Timbers are to be cut and framed and ends of timbers rounded with an ax as indicated, before timbers are treated.



FENCING

STATION TO STATION	SIDE	REMOVE & REBUILD LIN. FT.	REMOVE LIN. FT.	NEW B.W. FENCE LIN. FT.
F.A.P. 194-A(3)				
90+00 - 95+00	R	500		10
141+00 - 148+00	R	720		20
427+00 - 437+00	L	1,010		30
465+00 - 446+10	R	1,200	90	
TOTAL F.A.P. 194-A(3)		3430	90	60
F.A.P. 194-C(1)				
477+00 - 525+00	L	4930		60
479+90 - 524+00	R	4560		30
534+00 - 552+00	L	1,810		10
534+00 - 538+85	R	460		60
545+00 - 555+00	R	980		10
700+60 - 701+49E	L	90	20	
TOTAL F.A.P. 194-C(1)		12830	20	170
F.A.P. 151-D(2)				
519+00 - 533+00	R	1,400	170	
TOTAL F.A.P. 151-D(2)		1400	170	
COMBINED TOTALS		17660	280	230

GENERAL NOTES

This Project is to be Constructed in Conformity with the Standard Specifications of the Colorado State Highway Department, adopted June 1, 1940.

All quantities on Preliminary Plans are to be considered approximate only. All Plant Materials furnished for this Project shall be in conformity with requirements of "Standard Rules and Tables for Growing and Grading Ornamental and Fruit Nursery Stock," issued by the American Association of Nurserymen. All planting is to be mulched with two (2) inches of "duff" consisting of partly decayed pine needles and other vegetable matter naturally found on the forest floor, approved by the Engineer.

Throughout this entire project where flattening back or cut slopes is required available topsoil, to a depth of approximately six (6) inches, shall be bladed back away from grading operations, as directed by the Engineer. After grading operations are completed, the topsoil shall be replaced and evenly spread over the graded area. The cost of these requirements shall be included in the unit bid price for "Unclassified Excavation," topsoil listed as a separate item (Item 13t) shall be furnished and paid for as provided in the Special Provisions.

Grading quantities, topsoil, fertilizer and plant material quantities indicated on plans, are subject to modification by the Engineer in the field to meet actual construction requirements.

All Wire Fences, including Line Posts, shall be placed approximately six (6) inches inside the boundary line of the Highway Right of Way as shown on the plans. All Poles encroaching on Construction are to be moved by Owners.

The present traveled roadway will be used for traffic during construction of this project. At all places on the project where construction encroaches on the present traveled roadway, traffic shall be adequately provided for at the Contractor's expense.

Throughout this project the present traveled highway is oil surfaced and the Contractor shall prosecute his work in such a manner that the present oil surface is not injured or damaged. Any damage to the present oil surfacing, due to construction operations, shall be repaired by Contractor at his expense.

Different types of Slope Treatment are in general covered by four different treatments as follows:

Type 1. Flatten slopes without topsoil.

Type 2. Flatten slopes and add topsoil.

Type 3. Flatten slopes, add topsoil and seed with native grasses.

Type 4. Flatten slopes and plant seed packets.

At locations designated by Engineer, there shall be erected suitable posts and signs designating the type of treatment used at that location. This work shall be done by Force Account under Construction Division No. 2.

Slope rounding shall be variable as required by ground conditions and as shown on cross-section sheets.

R.O.W. MARKERS - NEW

STATION	SIDE	NO.
F.A.P. 194-A(3)		
90+00	R	1
90+65E	R	1
141+00	R	1
142+21Z	R	1
147+00	R	1
148+00	R	1
465+00	R	1
467+25E	R	1
445+75	R	1
TOTAL F.A.P. 194-A(3)		9
F.A.P. 194-C(1)		
499+14E	L&R	2
524+00	L&R	2
525+00	L	1
534+00	L&R	2
536+00	L&R	2
545+00	L&R	2
546+81Z	L&R	2
551+00	L	1
TOTAL F.A.P. 194-C(1)		14
COMBINED TOTALS		23

R.O.W. MARKERS - REMOVE & RESET

FROM STATION	SIDE	AT STATION	SIDE	NO.
F.A.P. 194-A(3)				
91+00	R	94+24	R	1
92+00	R	95+00	R	1
433+00	L	427+00	L	1
434+00	L	429+00	L	1
436+00	L	436+00	L	1
TOTAL F.A.P. 194-A(3)				5
F.A.P. 194-C(1)				
479+90	R	477+00	L	1
479+90	R	478+97Z	L	1
483+60	L	483+00	L	1
483+60	L	486+00	L	1
504+13E	L&R	504+13E	L&R	2
506+50	R	505+13	R	1
506+50	R	510+00	R	1
511+50	R	514+00	R	1
511+50	R	523+00	R	1
538+08E	L&R	538+08E	L&R	2
700+60	L	552+00	L	1
700+60	L	701+49E - Ea	L	1
530+00 (151-D)	R	554+00 (194-C)	R	1
524+00 (151-D)	R	553+00 (194-C)	R	1
TOTAL F.A.P. 194-C(1)				16
F.A.P. 151-D(2)				
524+00	R	519+00	R	1
533+00	R	533+00	R	1
TOTAL F.A.P. 151-D(2)				2
COMBINED TOTALS				23

SUMMARY OF APPROXIMATE QUANTITIES
CONST'R. DIV. NO. 1. INCIDENTAL WORK

ITEM NO.	DESCRIPTION	UNIT	QUANTITIES			
			194-A(3)	194-C(1)	151-D(2)	TOTAL
10a,b,c	Clear and Grub Entire Project	L.S.	a •	b •	c •	•
11b	Removal of Dead Trees	Each	52			52
11c	Rem. and Reset Guard Posts	Each	4			4
11d	Rem. and Reset R.O.W. Markers	Each	5	16	2	23
12a	Removing Fence	Lin.Ft.	100	100	200	400
12b	Removing and Rebuilding Fence	Lin.Ft.	3,500	12,900	1,400	17,800
12c	Treated Timber Line Posts	Each	20	80	10	110
13c	Unclassified Excavation	Cu.Yd.	16,700	25,000	2,600	44,300
13d	Unclassified Ditch Excavation	Cu.Yd.	800	500		1,300
13t	Topsoil	Cu.Yd.	3,250	1,050		4,300
14b	Dry Common Excavation (Struct.)	Cu.Yd.	50			50
14d	Wet Common Excavation (Struct.)	Cu.Yd.	10			10
18a	Station Yard Overhaul	Sta.Yd.	87,300	177,000		264,300
18b	Yard Mile Overhaul	Yd.Mi.	2,275	16,100		18,375
53b	18" Corr. Metal Culvert Pipe	Lin.Ft.	60			60
53c	24" Corr. Metal Culvert Pipe	Lin.Ft.	80			80
76a	Barbed Wire Fence (Trt. Wd Post)	Lin.Ft.	100	200		300
81b	R.O.W. Markers	Each	9	14		23
92	Timber Guard Posts	Each	38			38
151	Rustic Timber Carstops	Each	133			133
157	Native Stone Curb	Lin.Ft.	460			460
FORCE ACCOUNT ITEMS						
Obliterating Old Road		L.S.	•			•
Sta. 168-176 Lt., 457+ - 459+ Lt. and 462+ - 472 Rt.						

SUMMARY OF APPROXIMATE QUANTITIES
CONST'R. DIV. NO. 2. PLANT MATERIALS

ITEM NO.	UNIT	TOTAL	COMMON NAME	BOTANICAL NAME	SIZE	QUANTITIES			
						194-A(3)	194-C(1)	151-D(2)	TOTAL
EVERGREENS									
201	Each	187	Prostrate Juniper "B&B"	Juniperus communis montana	1 1/2'-2 1/2'	187			187
202	"	12	Lodgepole Pine "B&B"	Pinus contorta	4'-5'	12			12
DECIDUOUS TREES									
211	"	170	Aspen	Populus tremuloides	6'-8'	170			170
212	"	1,870	Willow Cuttings	Salix sp.	8"-10"	470	1,400		1,870
SHRUBS & VINES									
231	"	25	Chokecherry	Prunus melanocarpus	3'-4'	25			25
232	"	100	Native Rose	Rosa arkansana et al	1 1/2'-2'	100			100
281	"	1,100	Woodbine	Ampelopsis quinquefolia	5m. Cl.	1,100			1,100
MISCELLANEOUS									
162b	Acre	2.6	Seeding Native Grasses			1.1	1.5		2.6
162c	"	2.8	Seeding Sagebrush			2.8			2.8
162d	"	0.5	Seeding Fireweed			0.5			0.5
161	Each	4,700	Seedpockets			3,700	1,000		4,700
160	Cu.Yd.	50	Fertilizer			25	20	5	50
13t	Cu.Yd.	25	Topsoil			10	10	5	25
FORCE ACCOUNT (WORK BY STATE FORCES)									
Spray Rock Cut Rt. Sta.									
L.S.	•		289+ to 295+ with 5C-1 Road Oil.			•			•
Furnish and place posts with signs									
L.S.	•		showing Types of Slope Treatment.			•		•	•

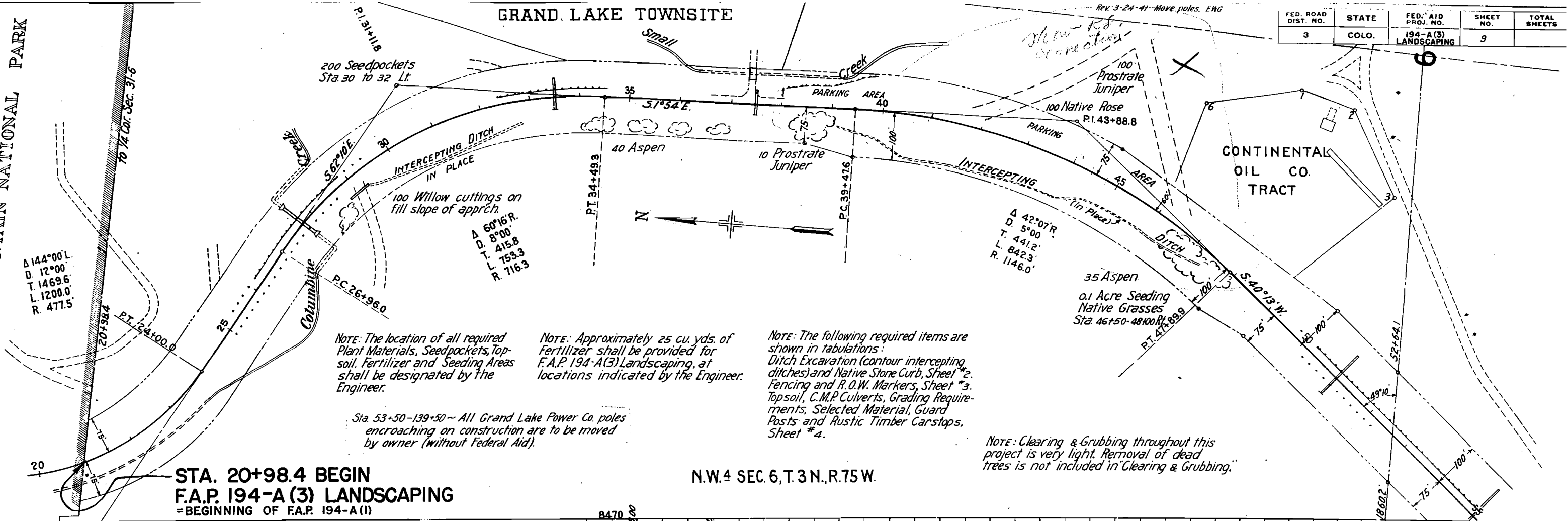
NOTE: All plant materials except grass seed are to be collected. All evergreens are to be balled and burlapped, (B&B).

SEC. 31, T. 4 N., R. 75 W.

ROCKY MOUNTAIN NATIONAL PARK

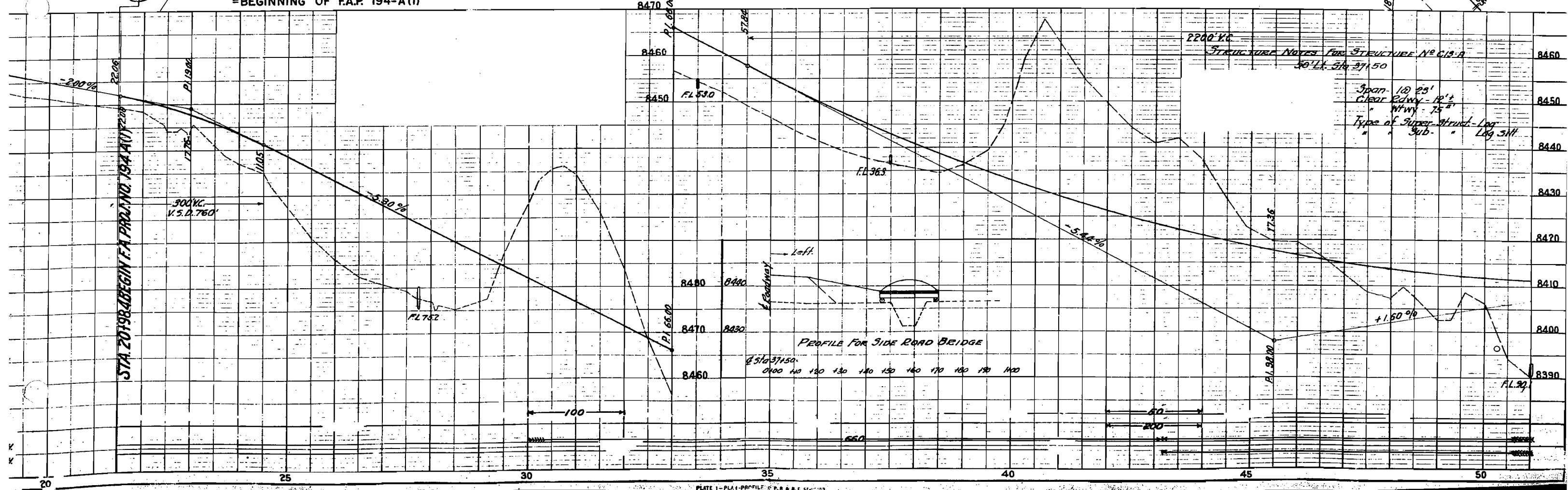
GRAND LAKE TOWNSITE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A(3) LANDSCAPING	9	



STA. 20+98.4 BEGIN
F.A.P. 194-A(3) LANDSCAPING
=BEGINNING OF F.A.P. 194-A(1)

N.W. 4 SEC. 6, T. 3 N., R. 75 W.

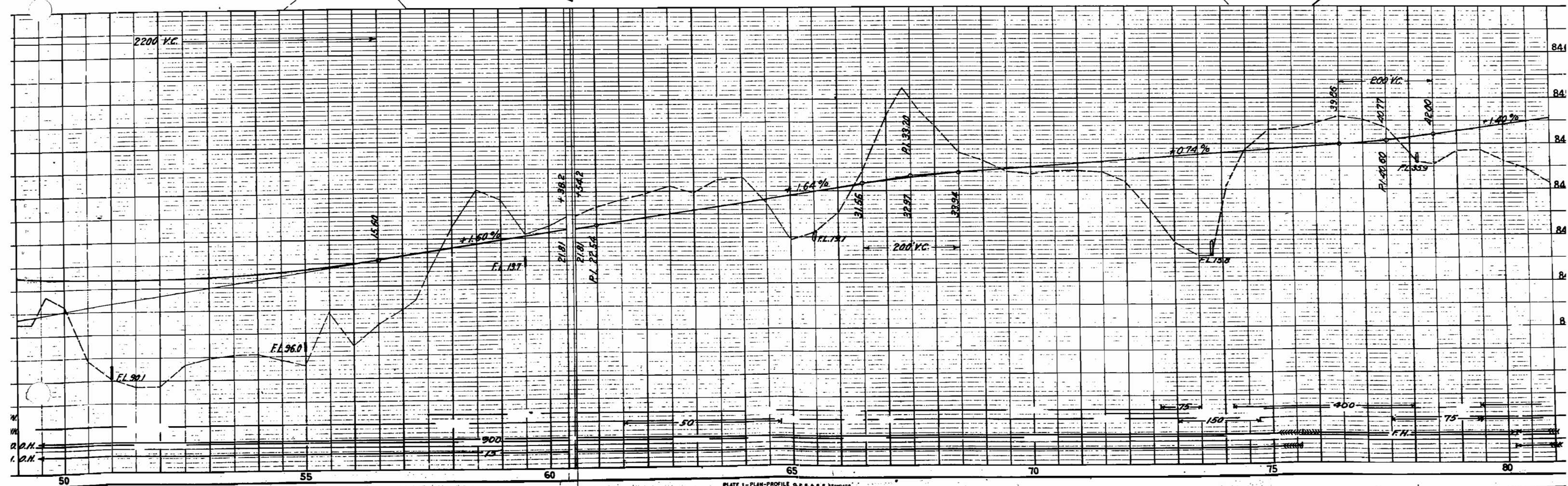


LOT 13, S.W.4 SEC. 6

N.W. 4 SEC. 6

LOT 12, S.W.4 SEC.6

EQUATION

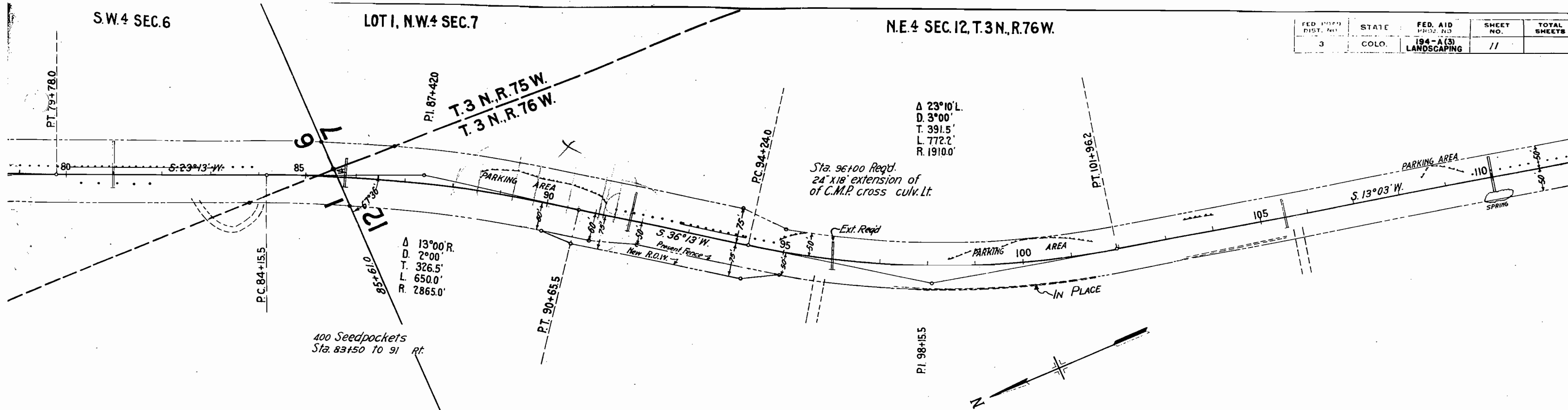


S.W.4 SEC.6

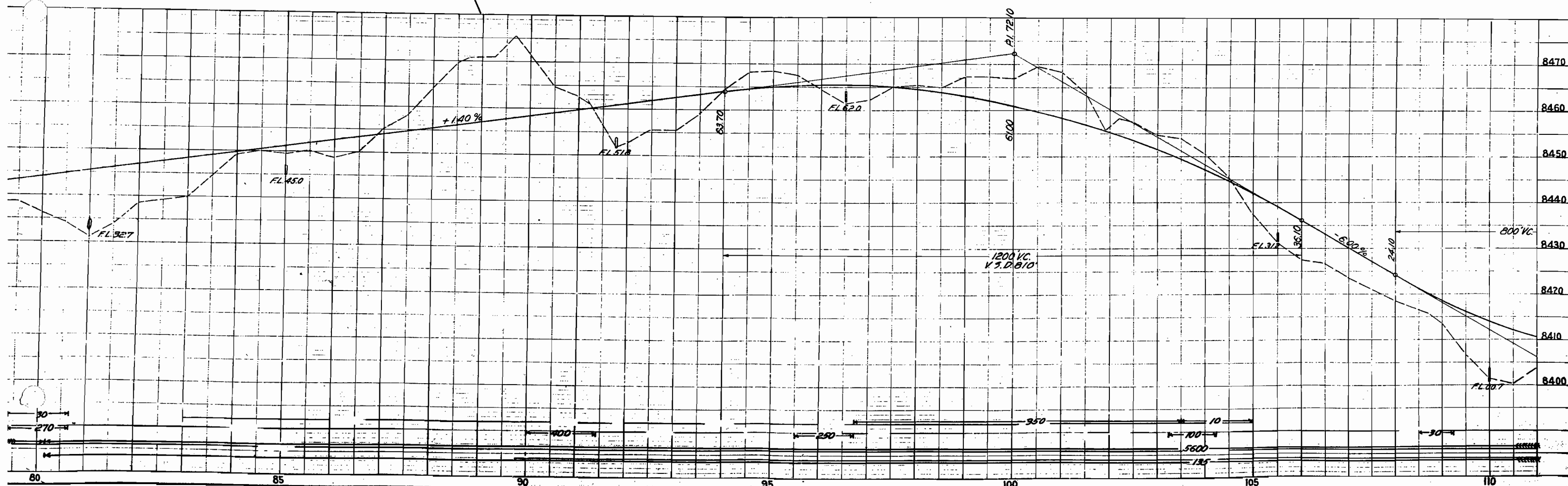
LOT 1, N.W.4 SEC.7

N.E.4 SEC.12, T.3N., R.76W.

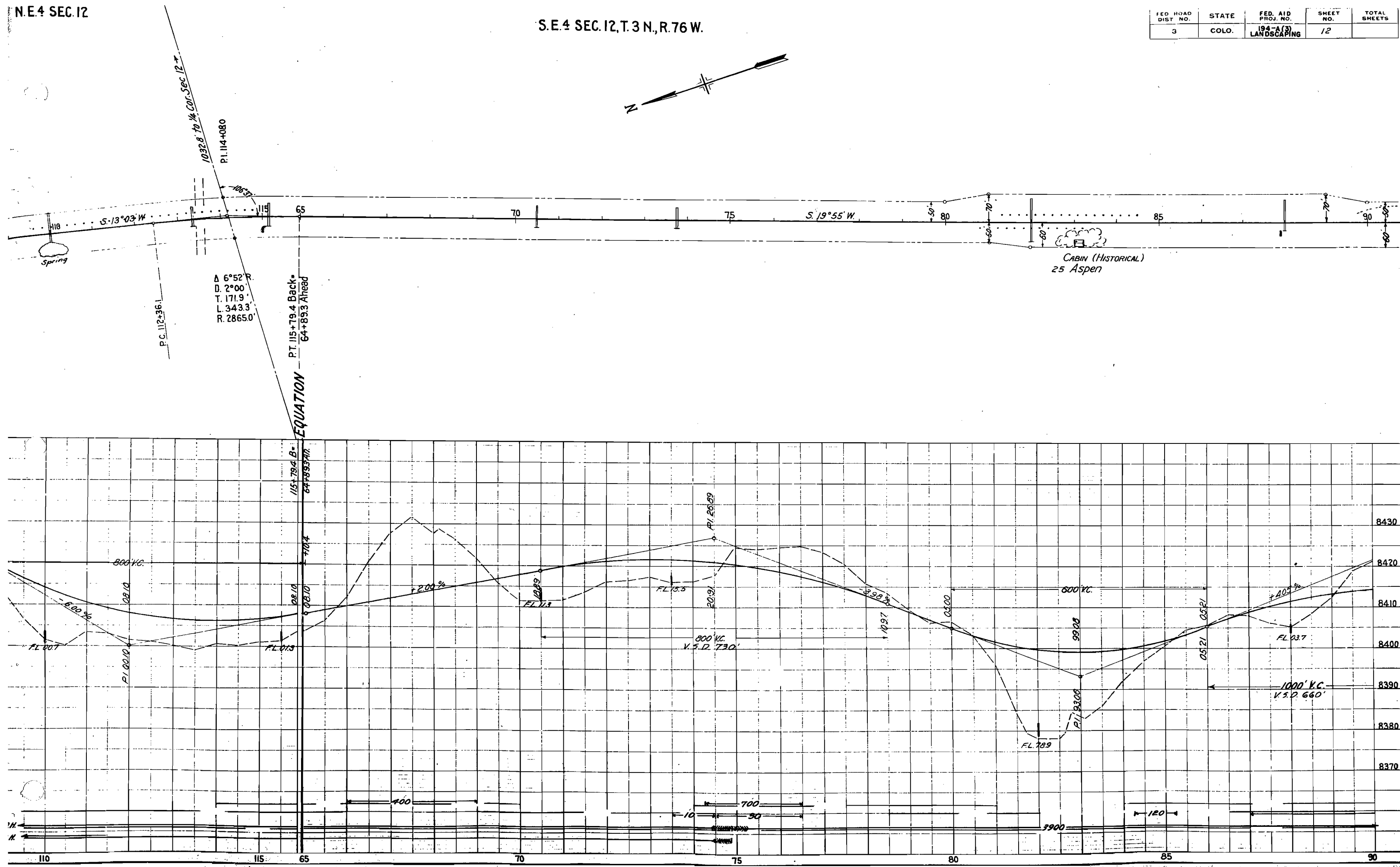
FED. AID DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A(3) LANDSCAPING	11	



S.E.4 SEC.1



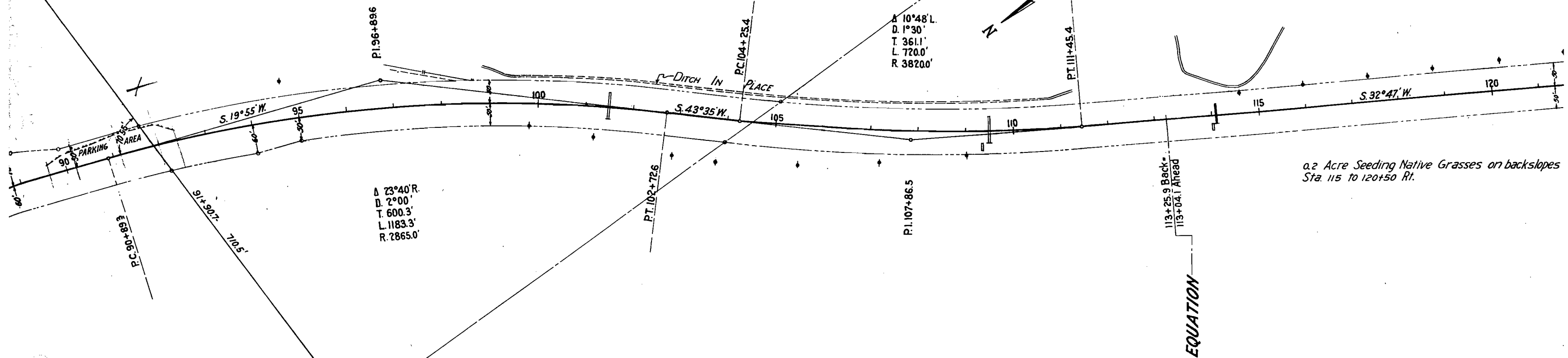
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3	COLO.	194-A(3) LANDSCAPING	12	



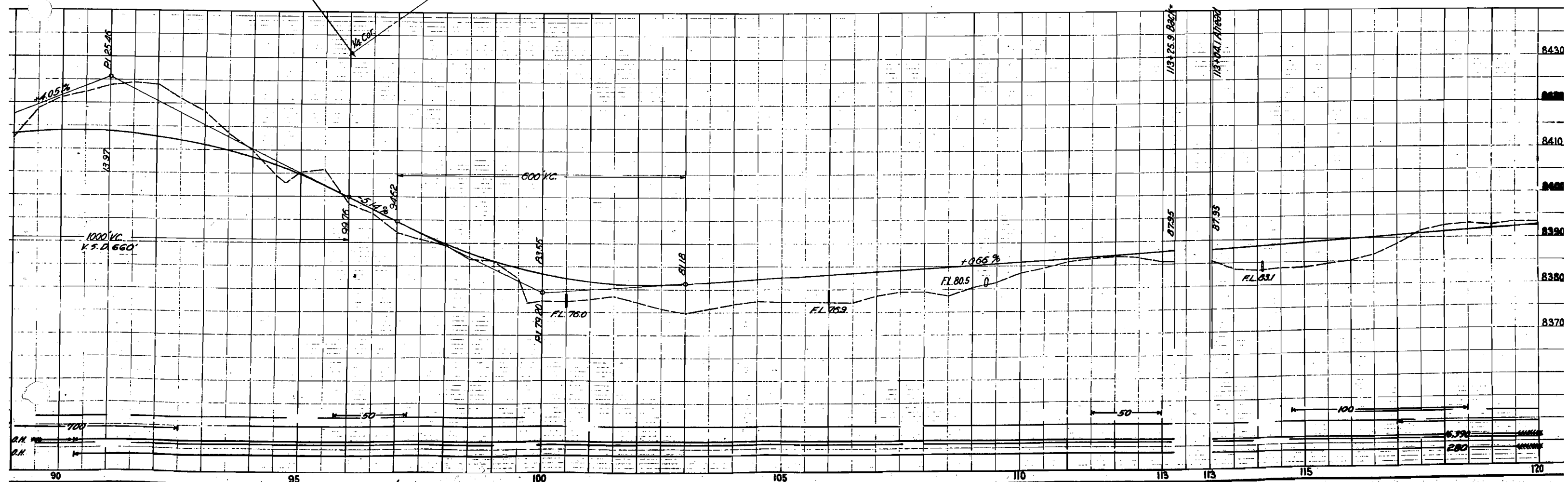
N.E.4 SEC. 13.T.3N.R.76W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A(3) LANDSCAPING	13	

N.W.4 SEC. 13



0.2 Acre Seeding Native Grasses on backslopes Sta. 115 to 120+50 Rt.

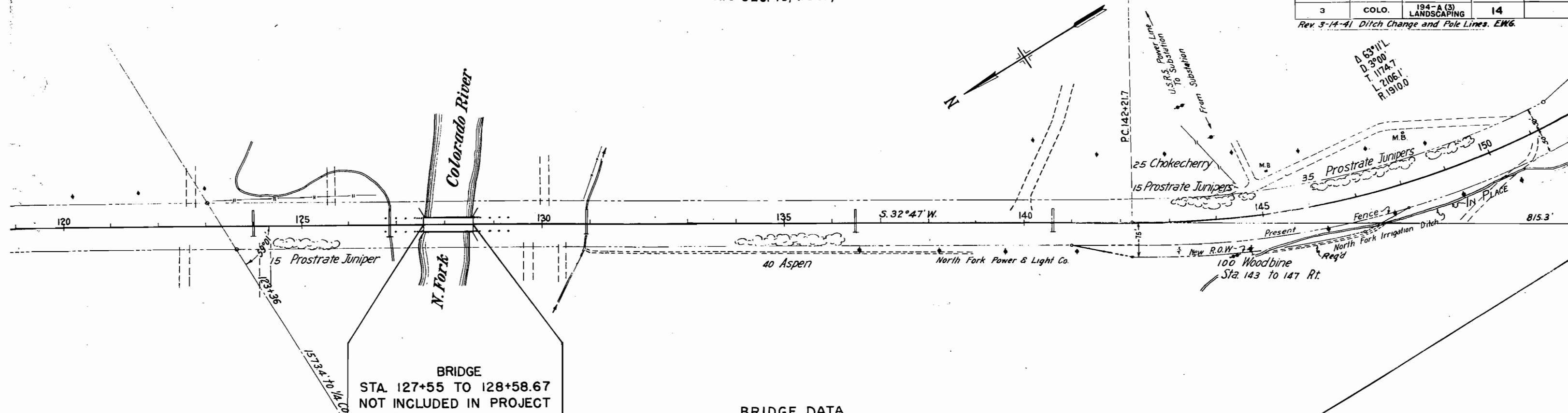


S.W.4 SEC. 13, T.3 N., R.76 W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A (3) LANDSCAPING	14	

Rev. 3-14-41 Ditch Change and Pole Lines. EW6.

Δ 63°11' L
D 3°00'
T 1174.7
L 2106.1
R 1910.0



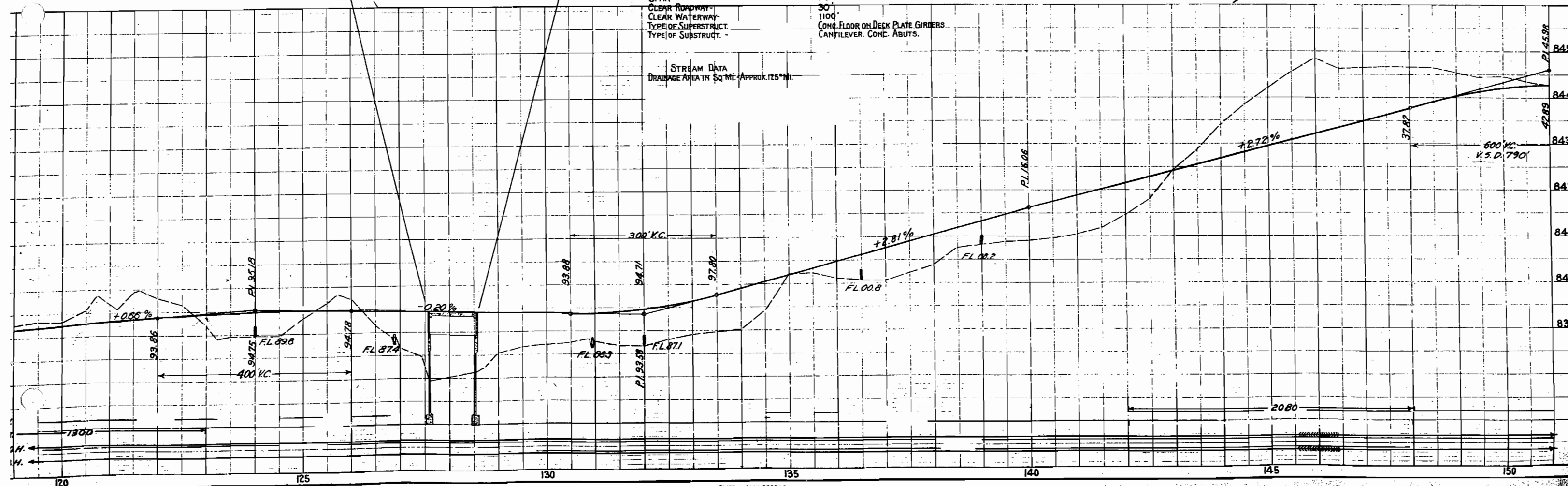
BRIDGE DATA

STRUCTURE No. D-13-A STATION - 127+55.0 - 128+58.67
STREAM - NO. FORK COLORADO RIV. COUNTY - GRANT
SKEW ANGLE - 90°

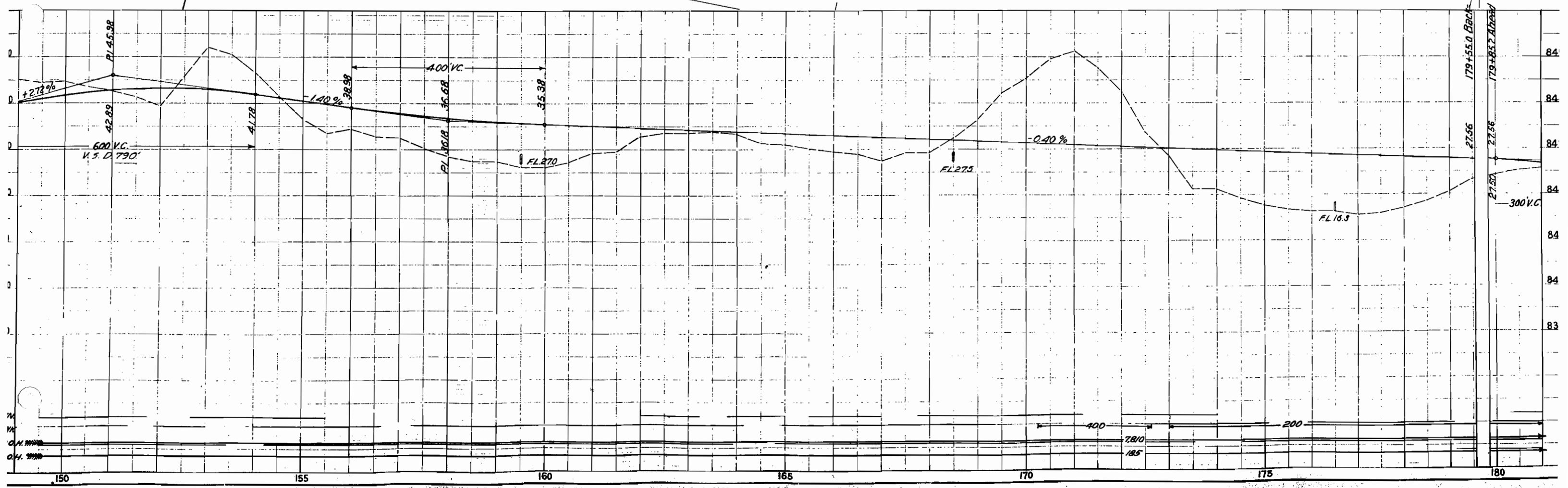
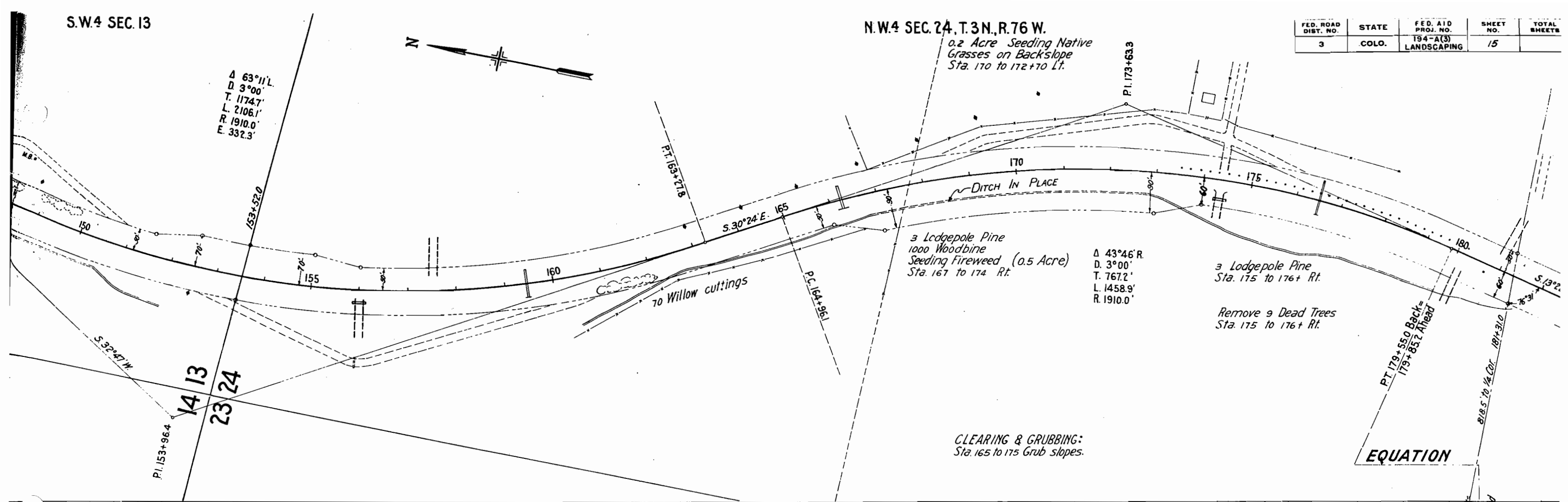
SPAN - 30'-0"
CLEAR ROADWAY - 30'-0"
CLEAR WATERWAY - 1100'-0"
TYPE OF SUPERSTRUCT. - CONC. FLOOR ON DECK PLATE GIRDERS
TYPE OF SUBSTRUCT. - CANTILEVER CONC. ABUTS.

STREAM DATA
DRAINAGE AREA IN SQ. MI. - APPROX. 125 MI.

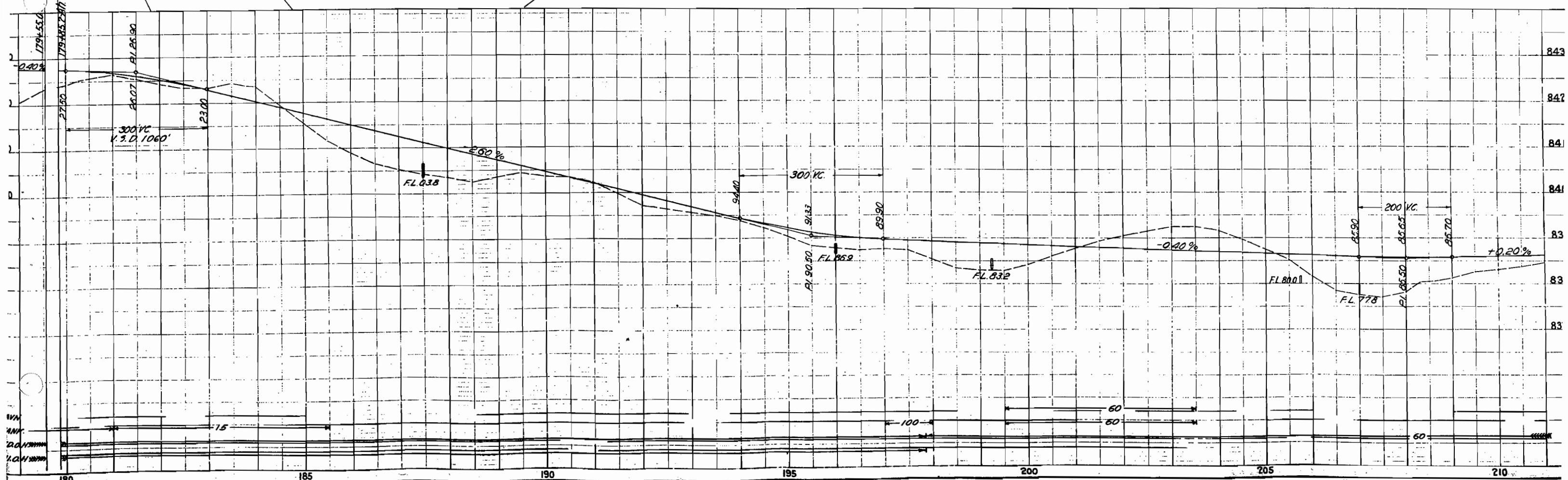
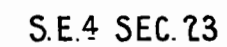
N.W.4 SEC. 13



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A(3) LANDSCAPING	15	

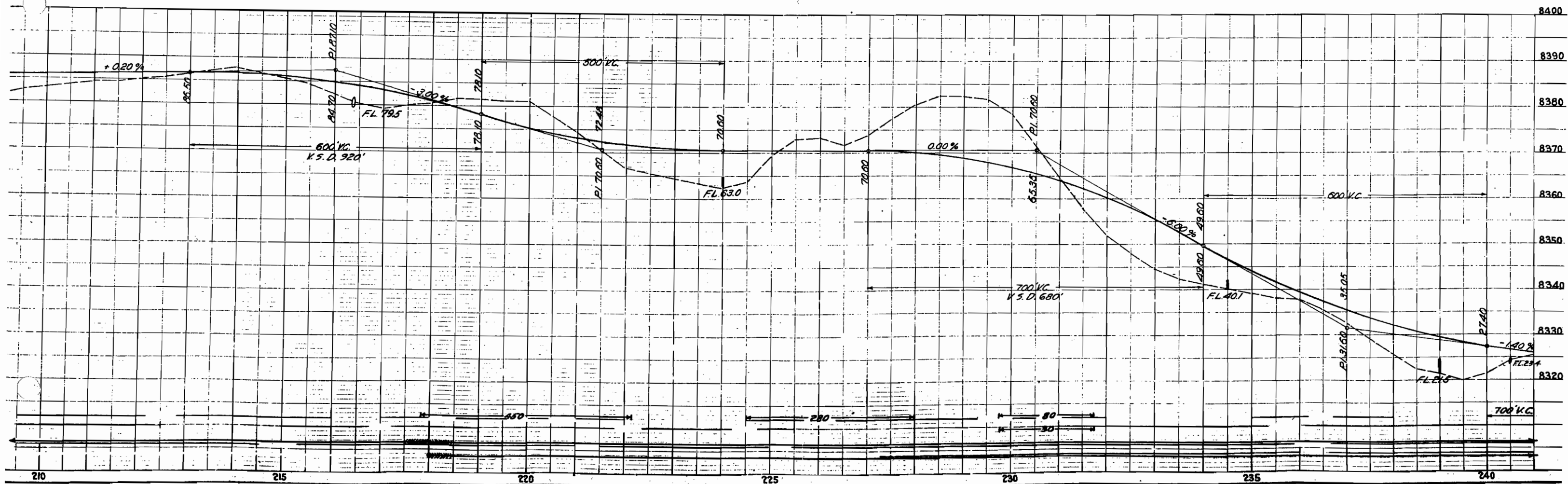
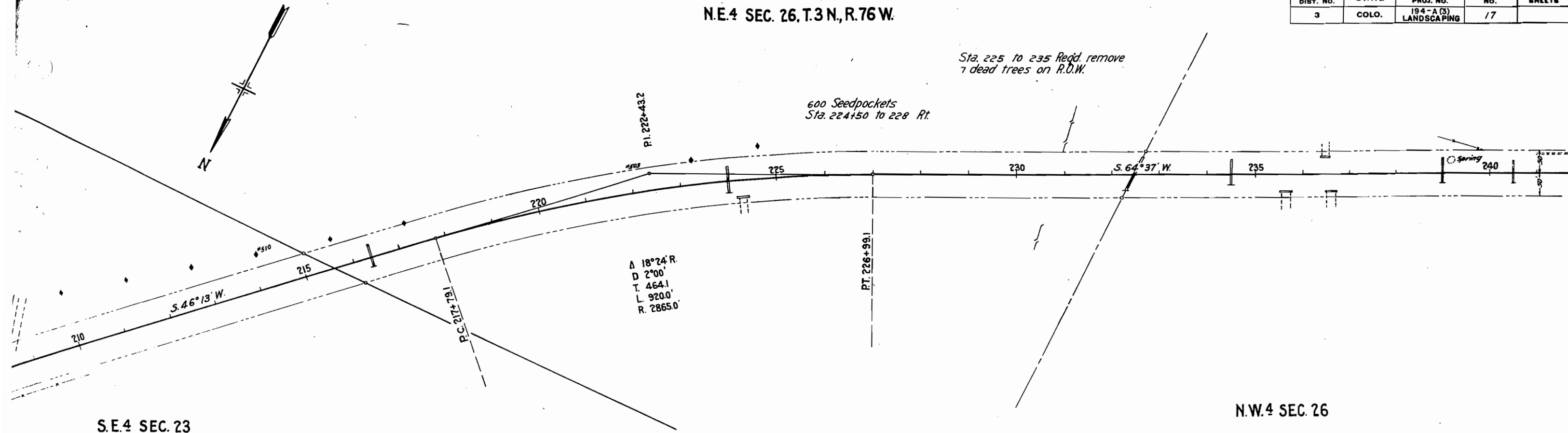


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A(3) LANDSCAPING	16	



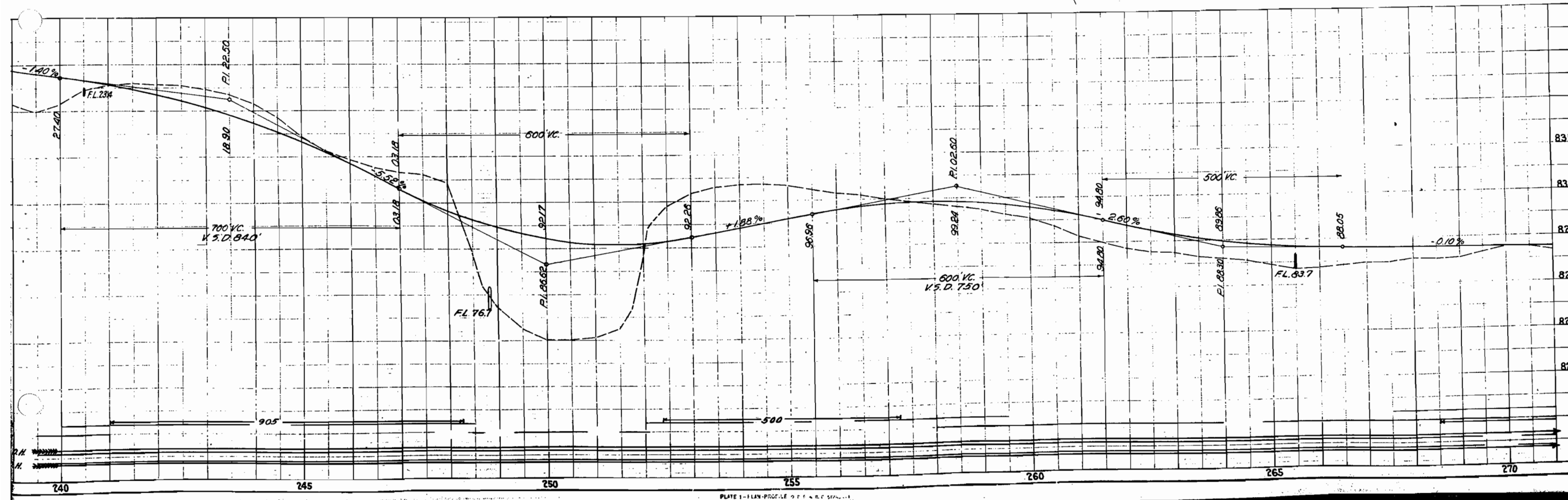
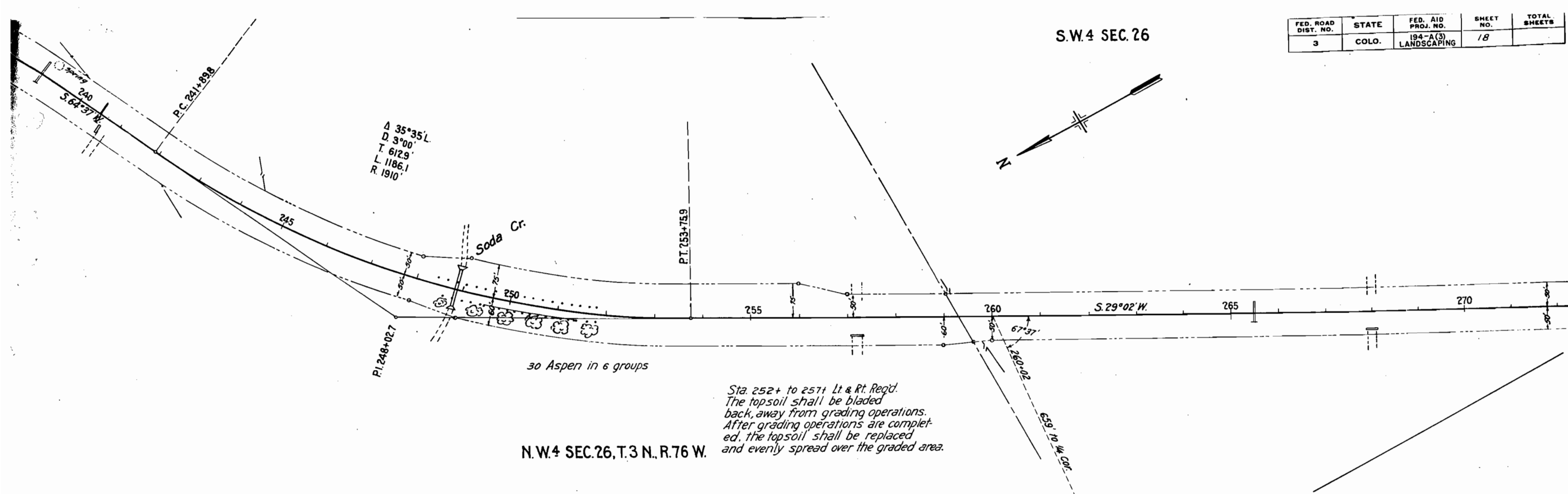
N.E.4 SEC. 26, T.3 N., R.76 W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A(3) LANDSCAPING	17	



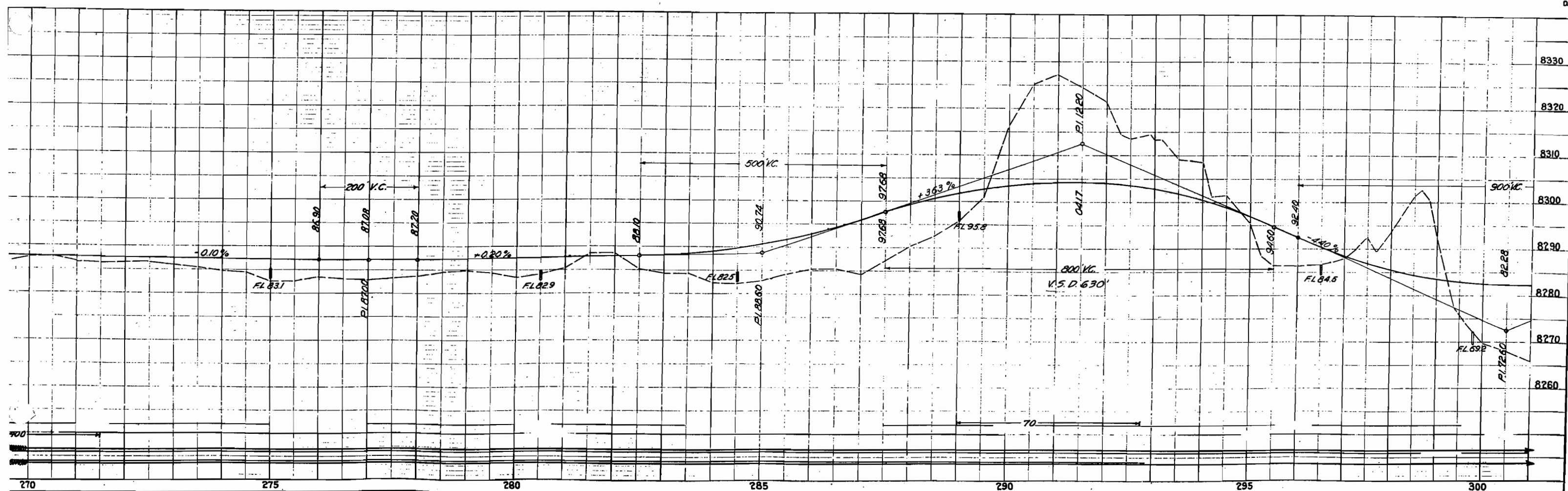
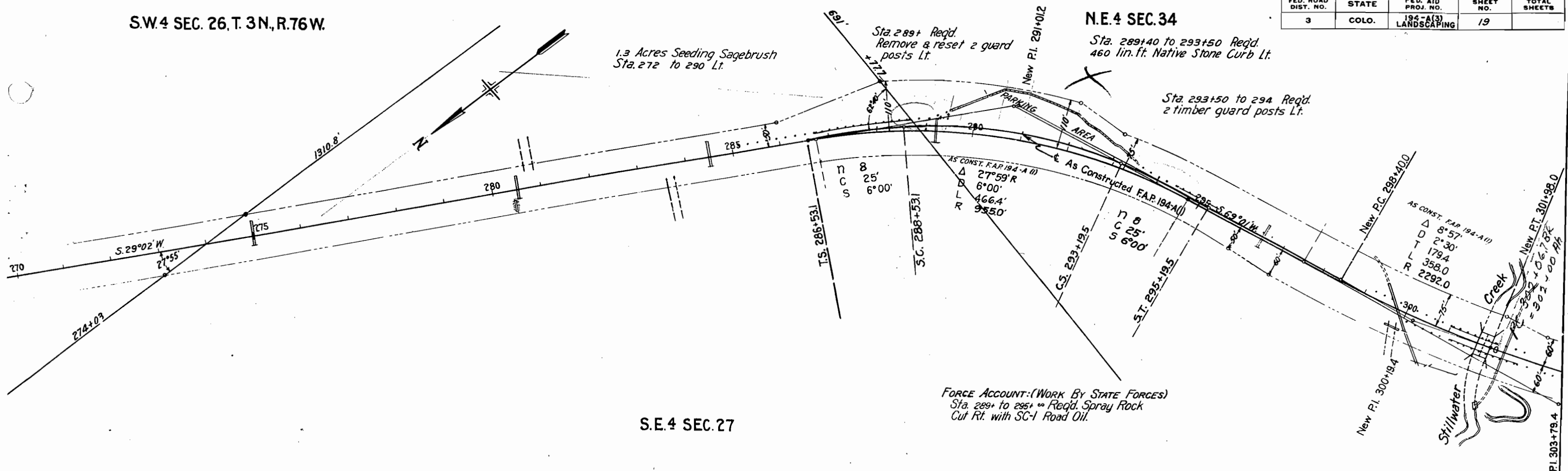
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A(3) LANDSCAPING	18	

S.W.4 SEC.26



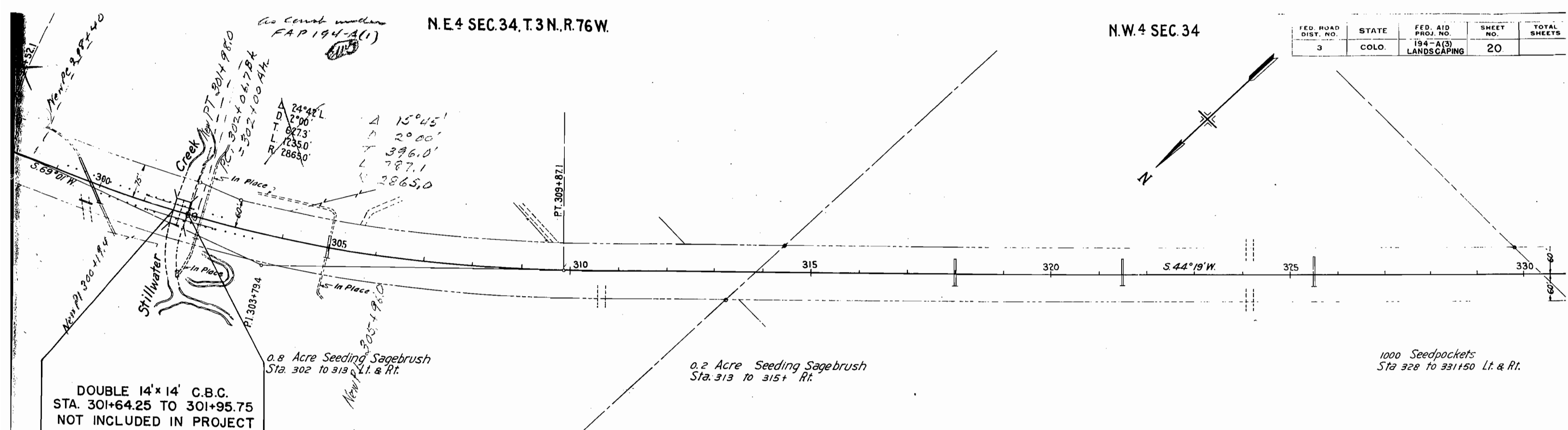
S.W.4 SEC. 26, T. 3N, R. 76W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A(3) LANDSCAPING	19	



N.W. 4 SEC. 34

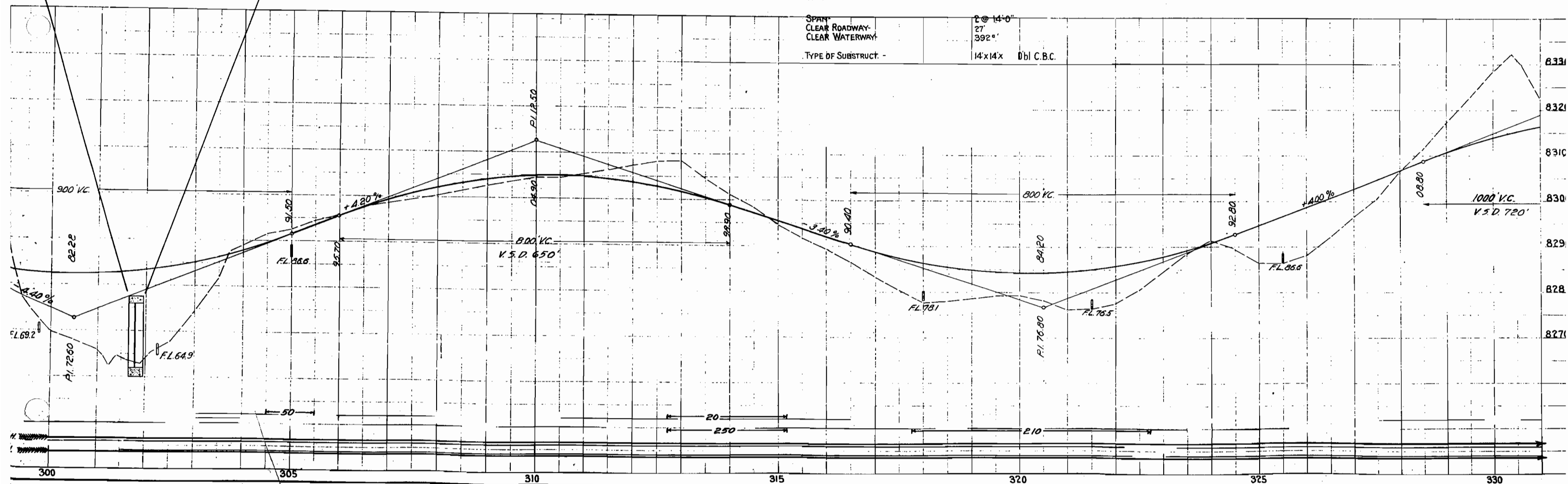
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A(3) LANDSCAPING	20	



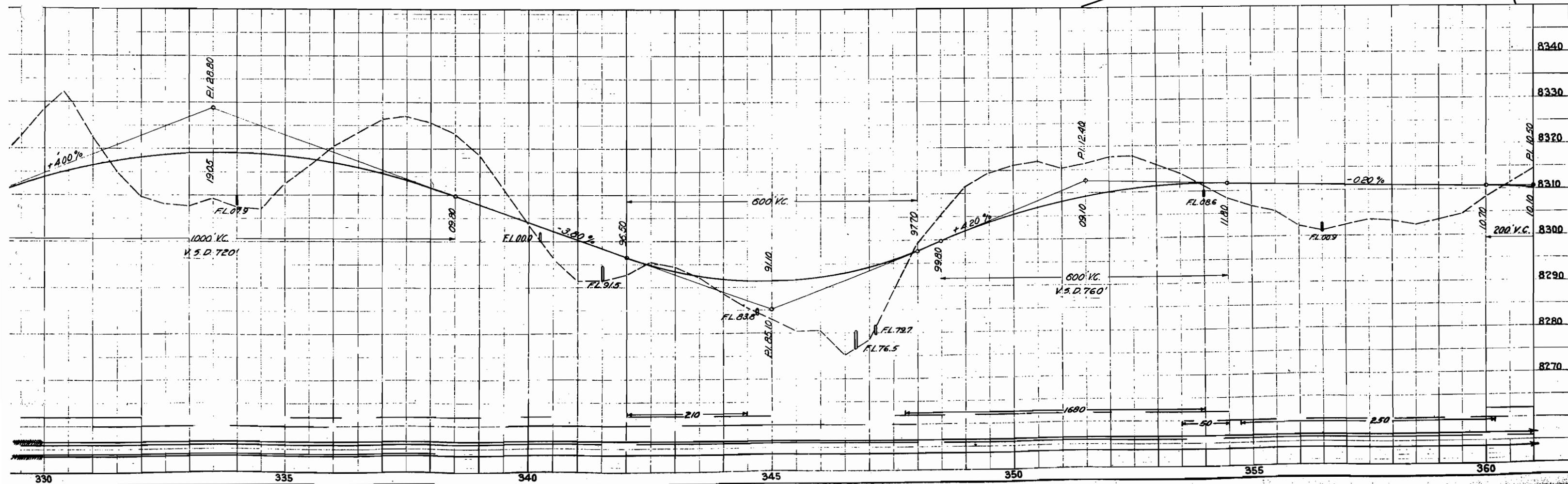
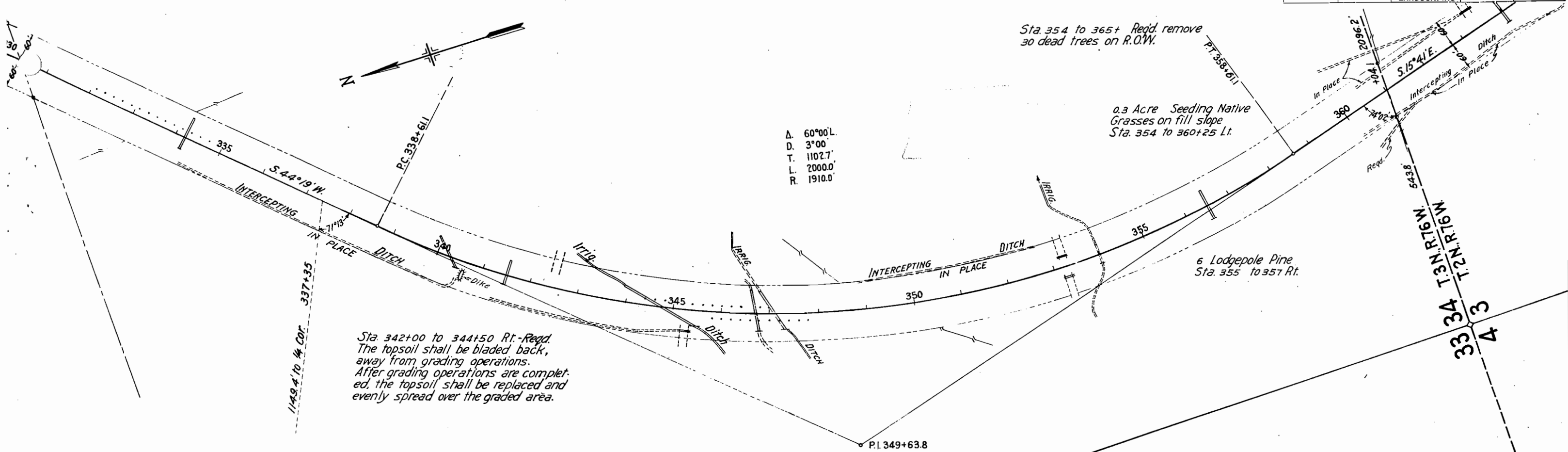
BRIDGE DATA

STRUCTURE NO.- D-13-V STATION- 301+64.25-301+95.75
STREAM- STILLWATER CR. COUNTY- GRAND
SKEW ANGLE-

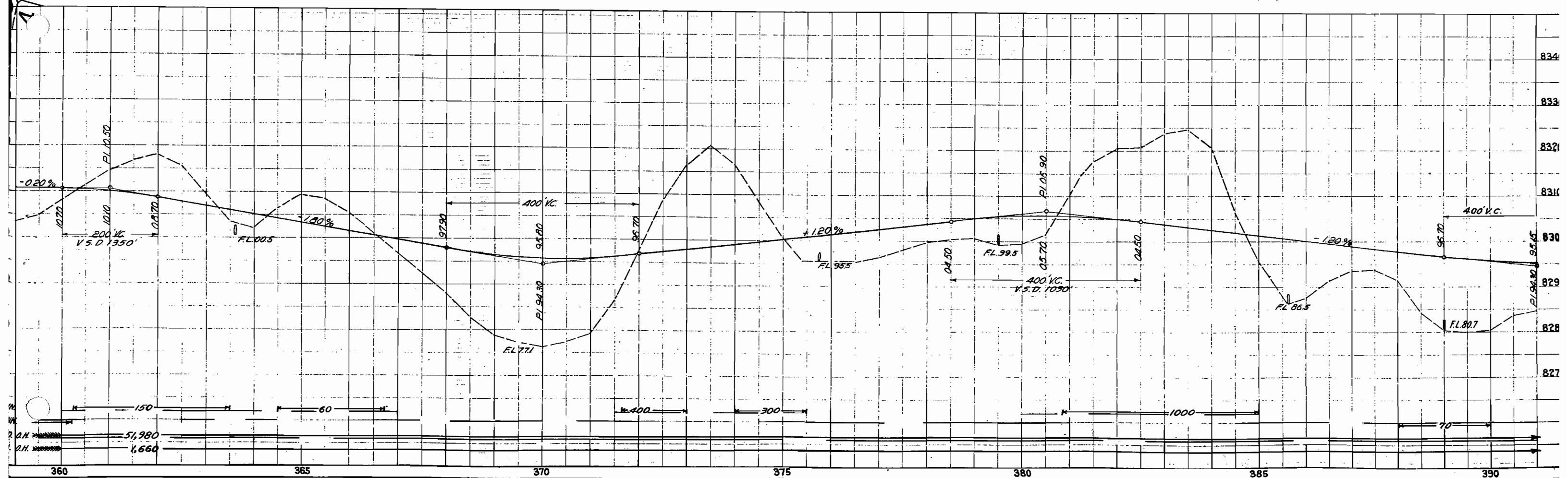
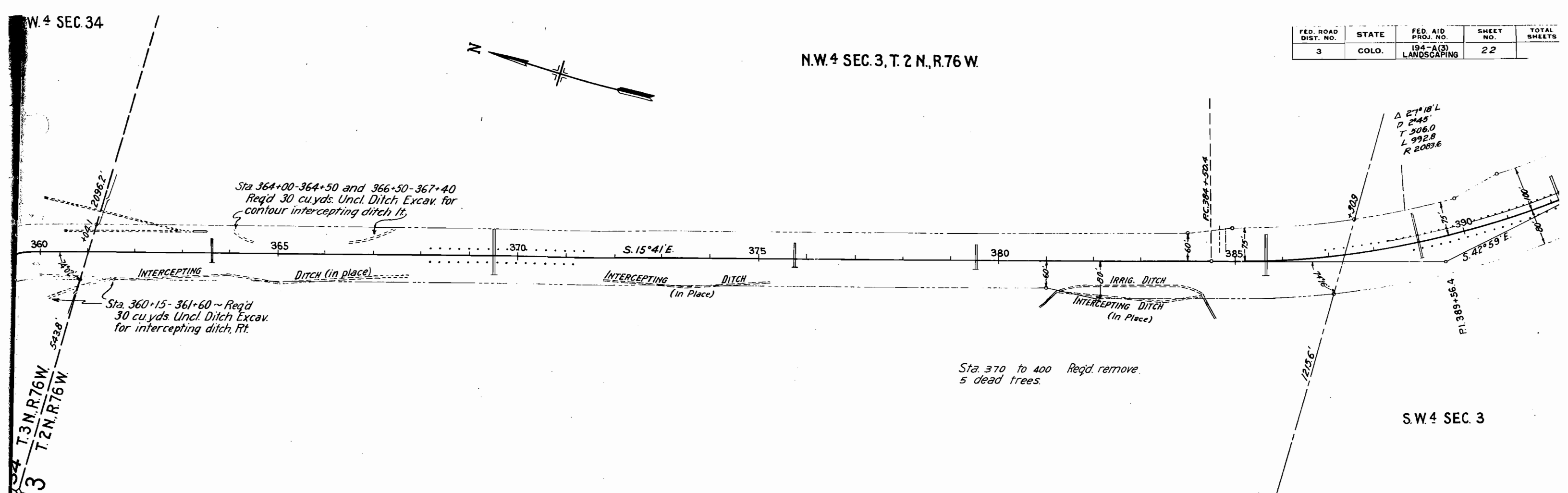
SPAN	2 @ 14'-0"
CLEAR ROADWAY	27'
CLEAR WATERWAY	39'-2"
TYPE OF SUBSTRUCT.	14'x14' D/b C.B.C.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A (3) LANDSCAPING	21	



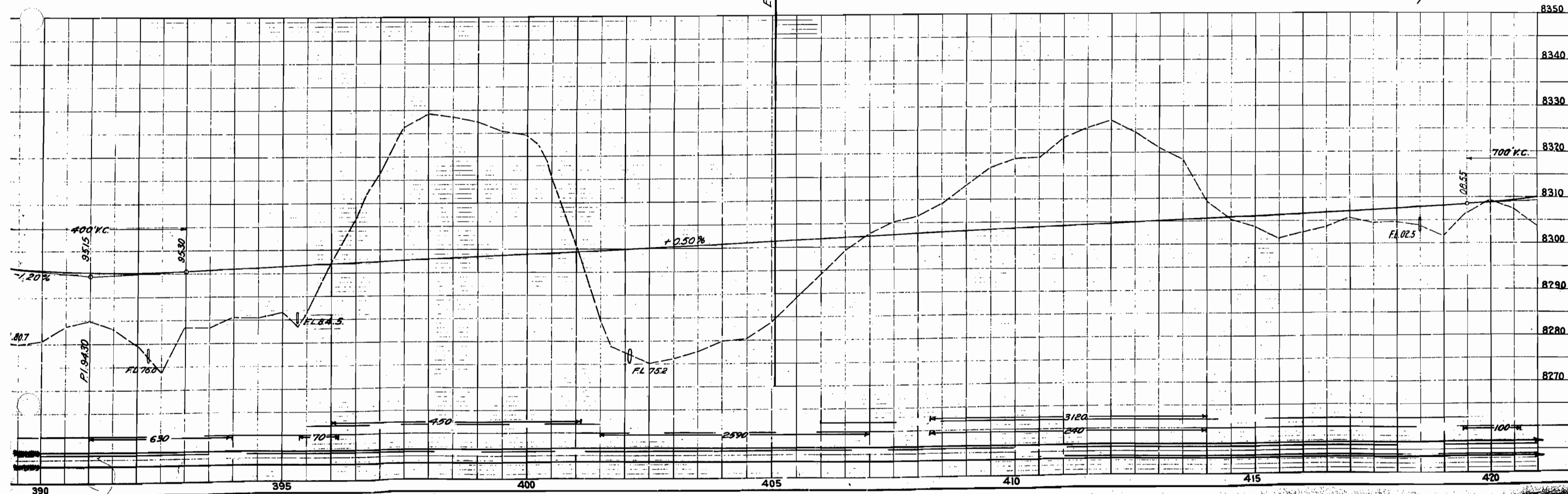
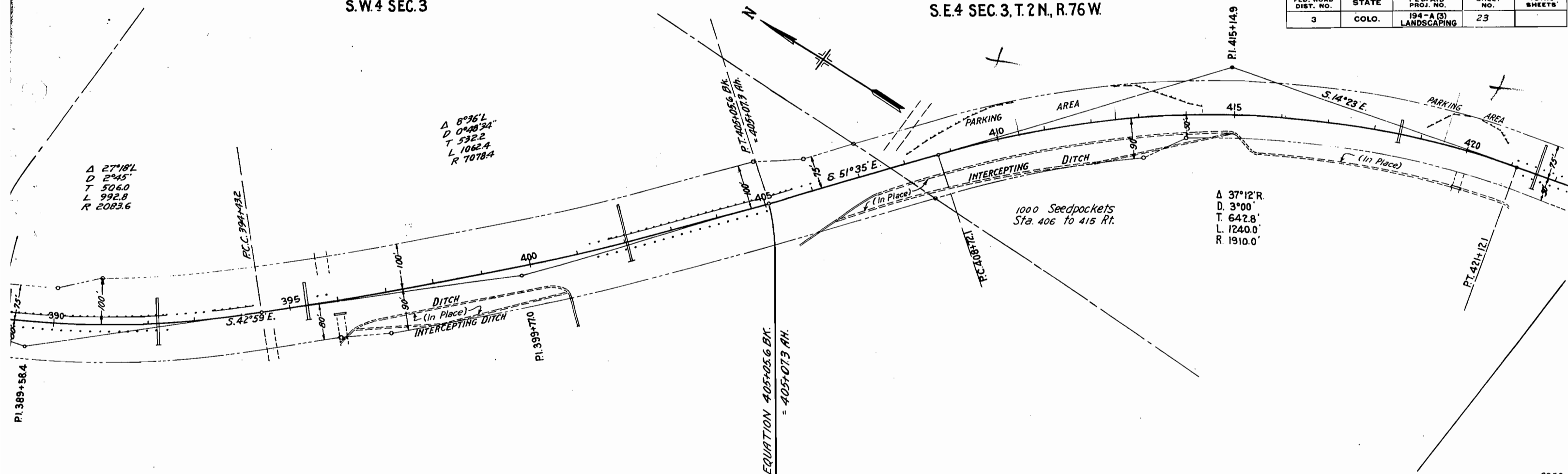
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A(3) LANDSCAPING	22	



S.W.4 SEC.3

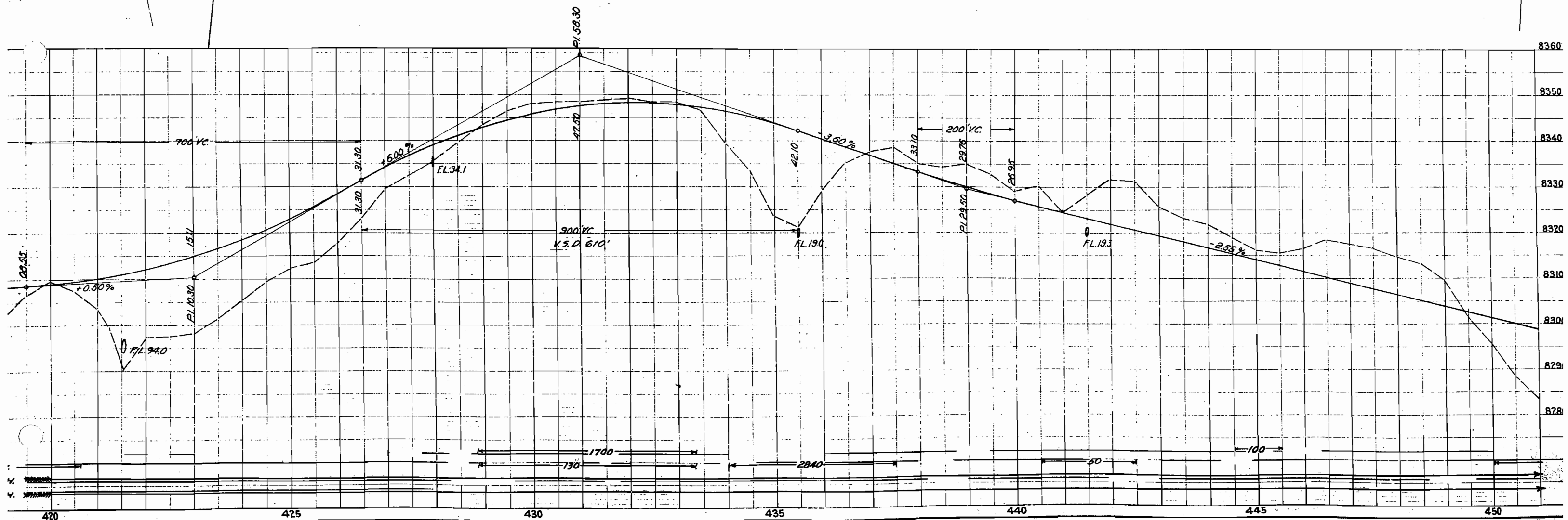
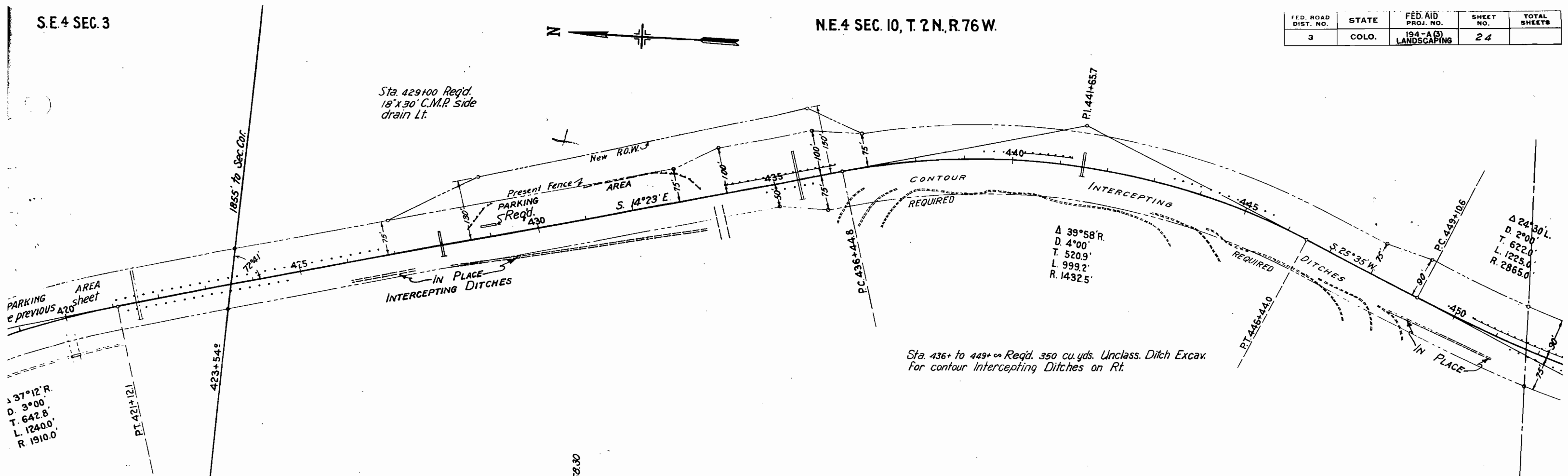
S.E.4 SEC.3, T.2N., R.76W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A(3) LANDSCAPING	23	



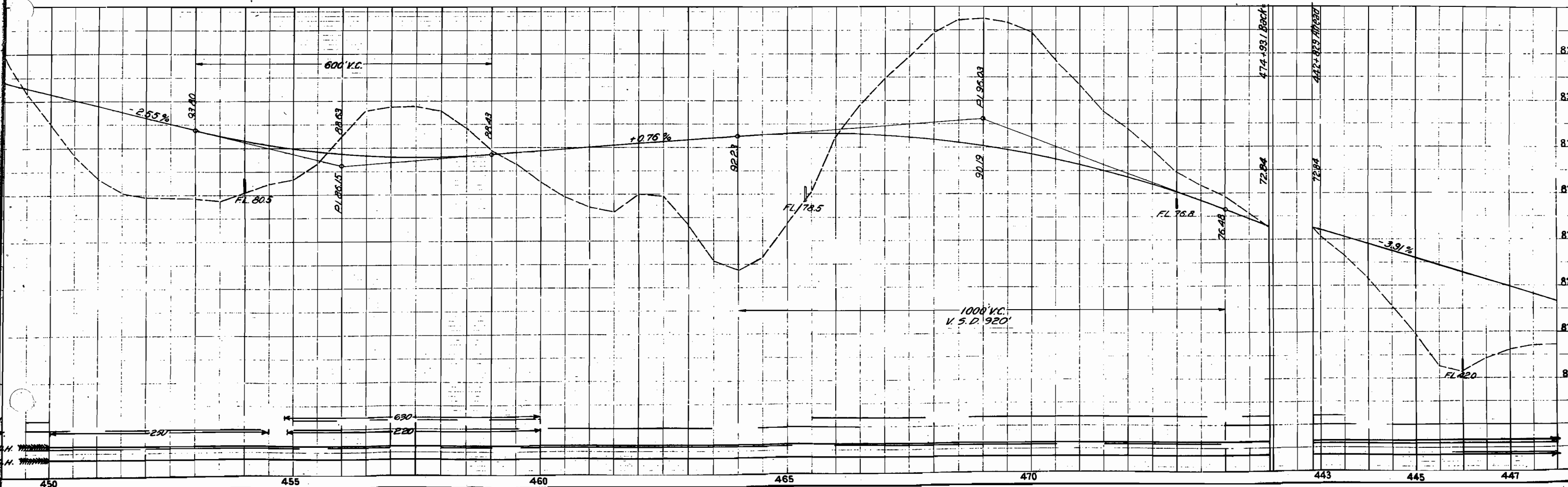
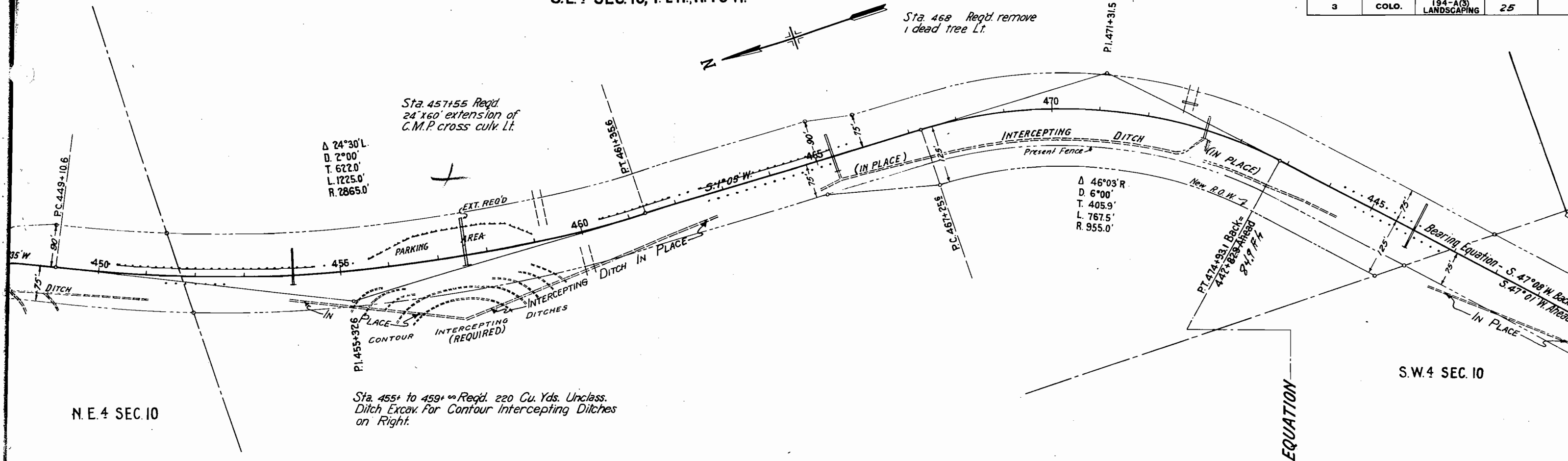
N.E. 4 SEC. 10, T. 2 N., R. 76 W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A(3) LANDSCAPING	24	

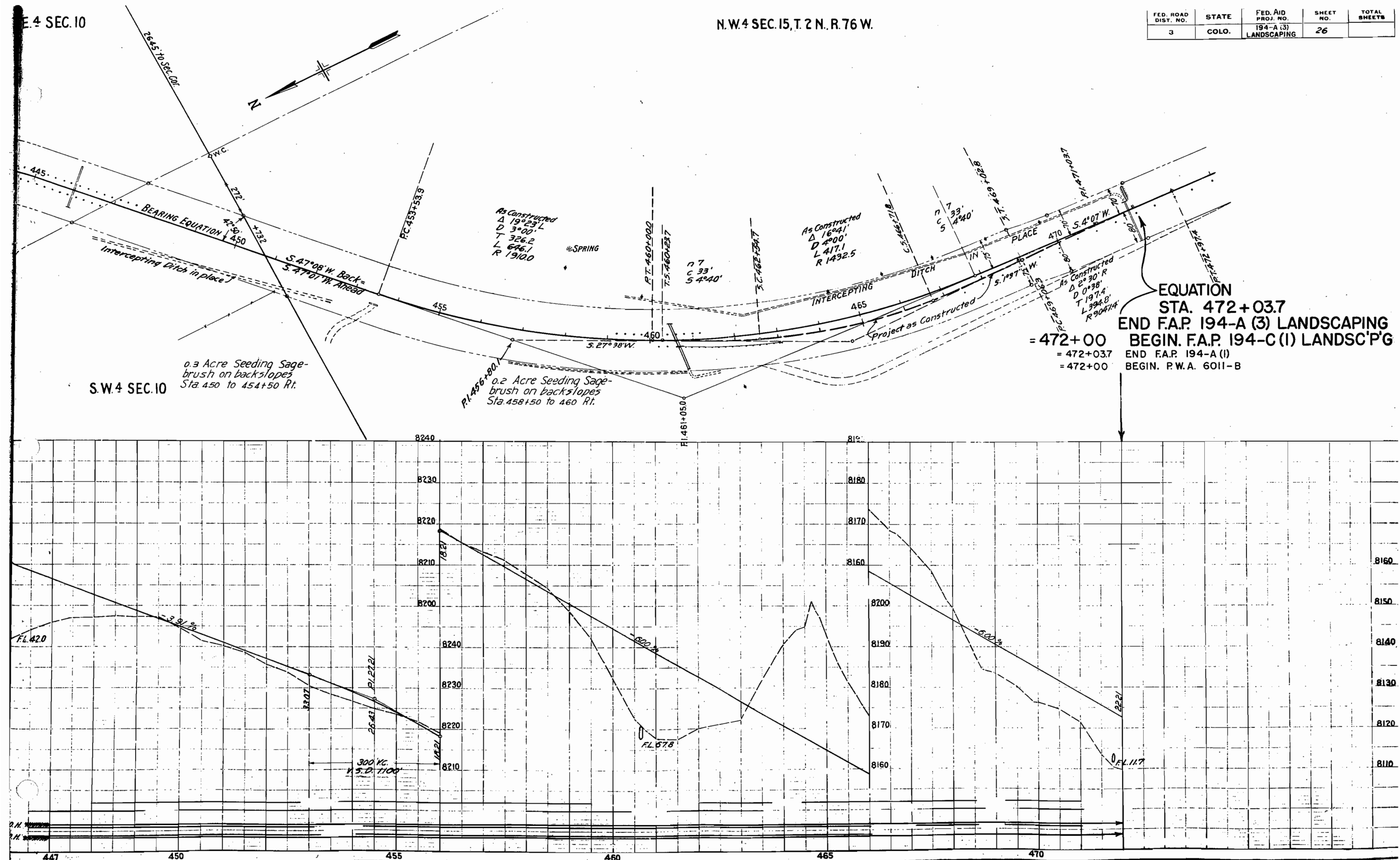


S.E.4 SEC.10,T.2N,R.76W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-A(3) LANDSCAPING	25	



EQUATION
 STA. 472+03.7
 END F.A.P. 194-A (3) LANDSCAPING
 BEGIN F.A.P. 194-C (1) LANDSC'P'G
 = 472+00
 = 472+03.7
 = 472+00

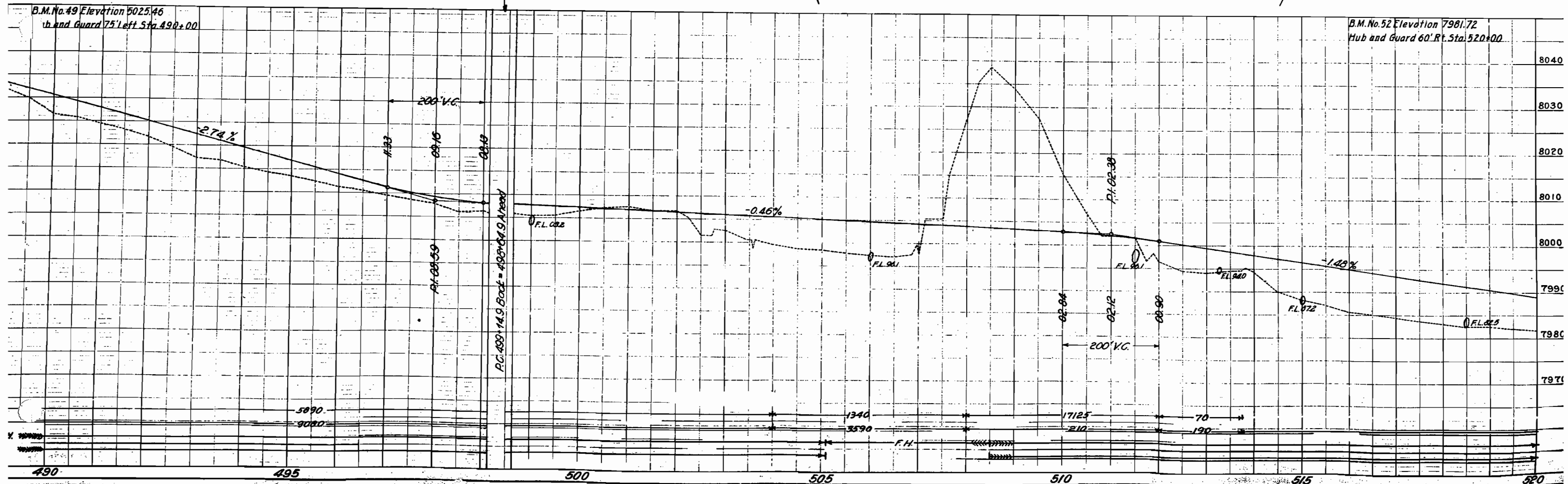
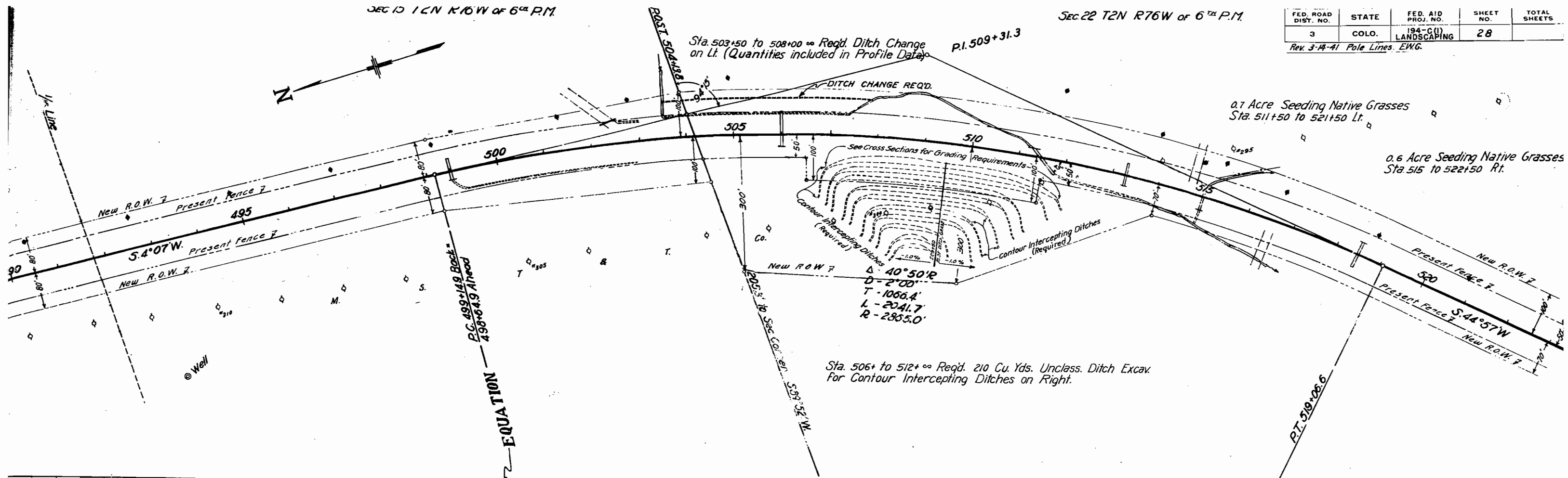


SEC 12 N R76W of 6th P.M.

SEC 22 T2N R76W of 6th P.M.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-C(1) LANDSCAPING	28	

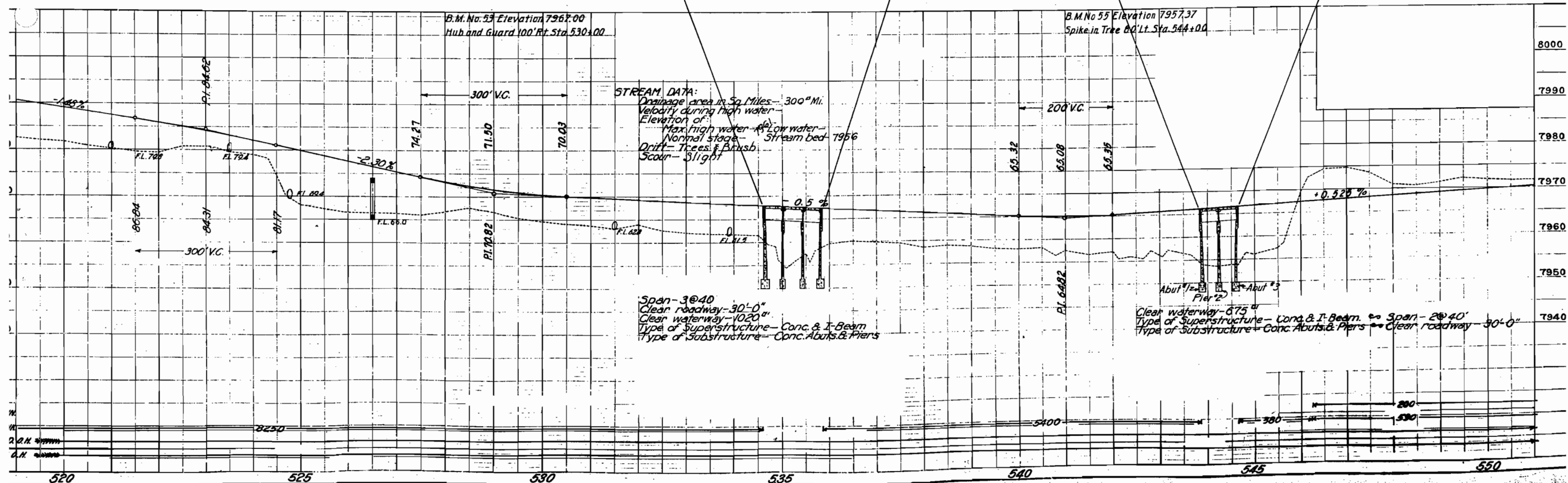
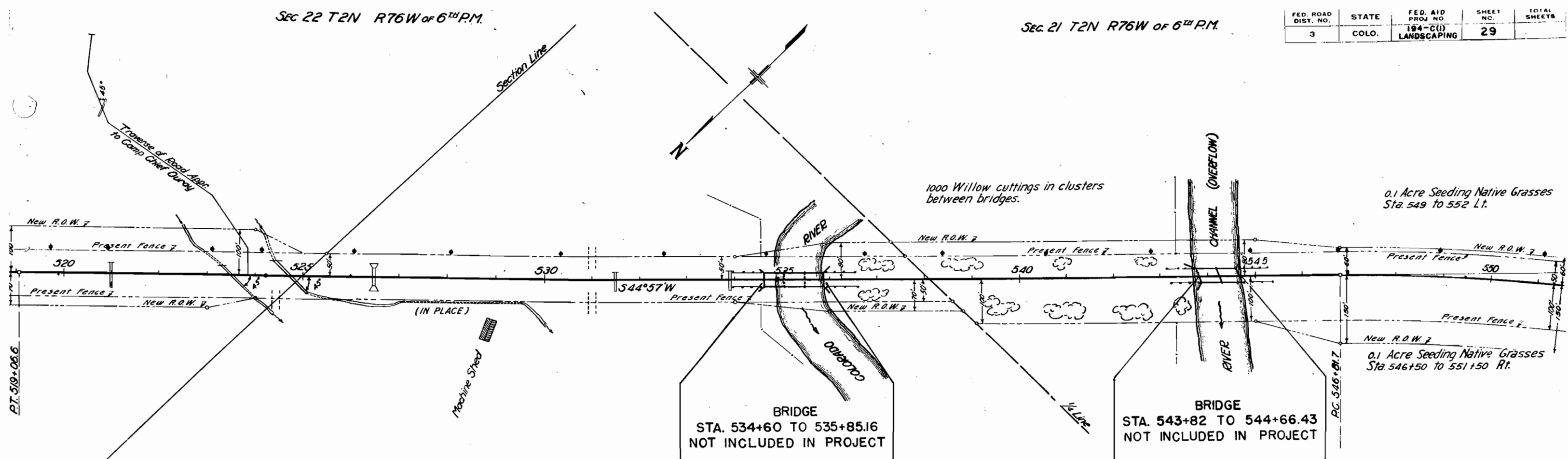
Rev. 3-14-41 Pole Lines. EWG.



Sec 22 T2N R76W of 6th P.M.

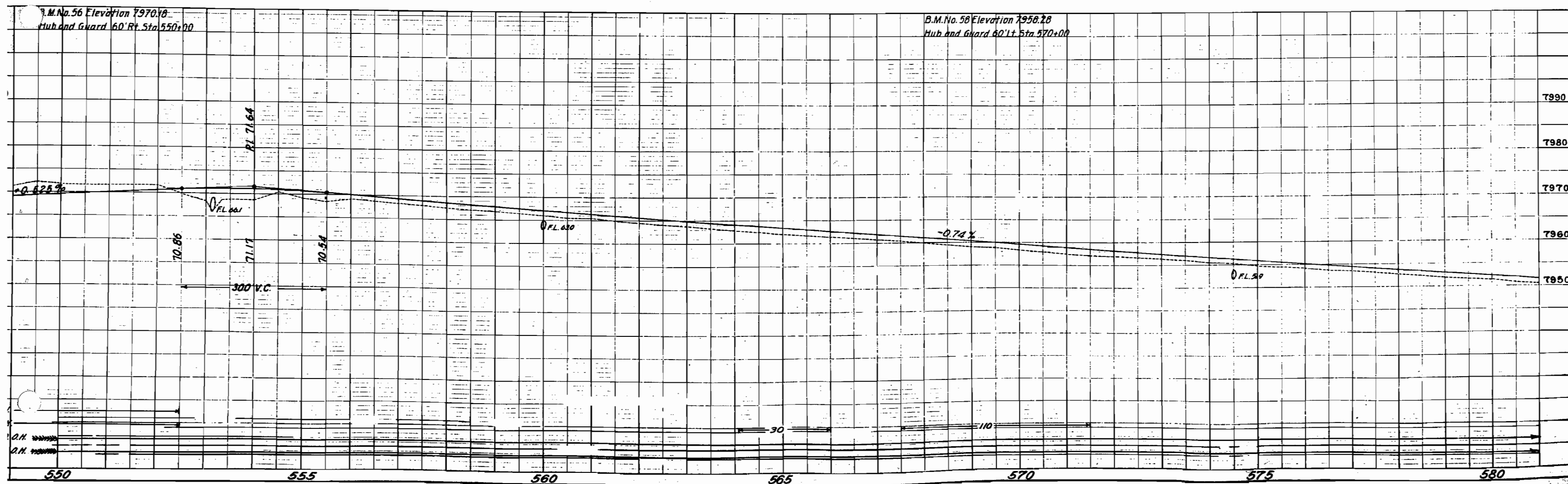
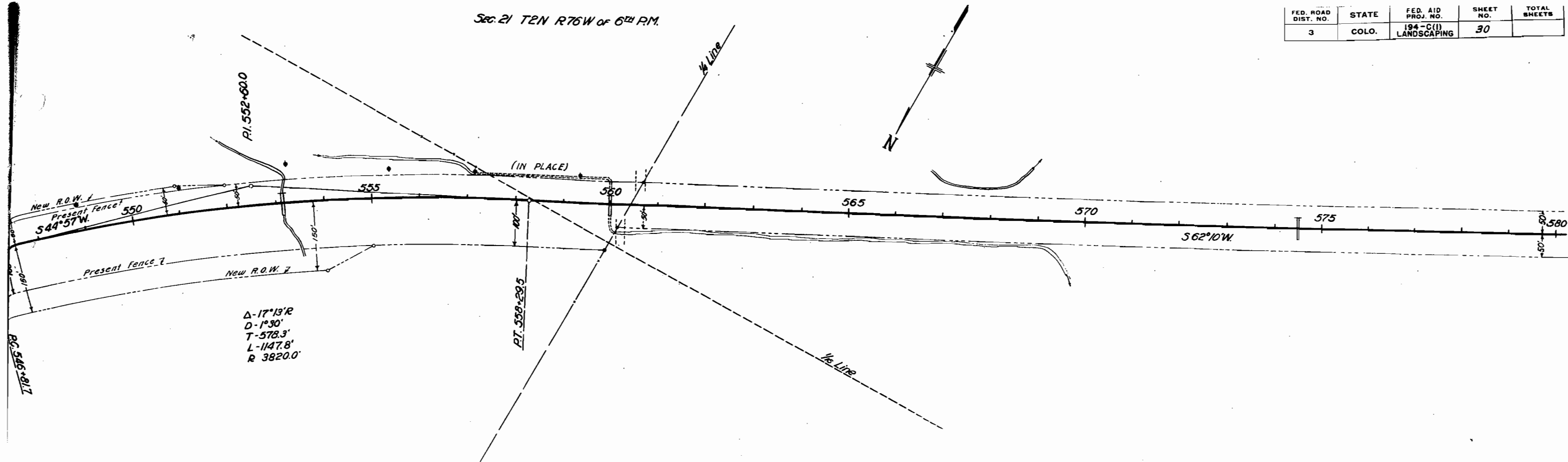
Sec 21 T2N R76W of 6th P.M.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-C(1) LANDSCAPING	29	



Sec. 21 T2N R76W of 6th P.M.

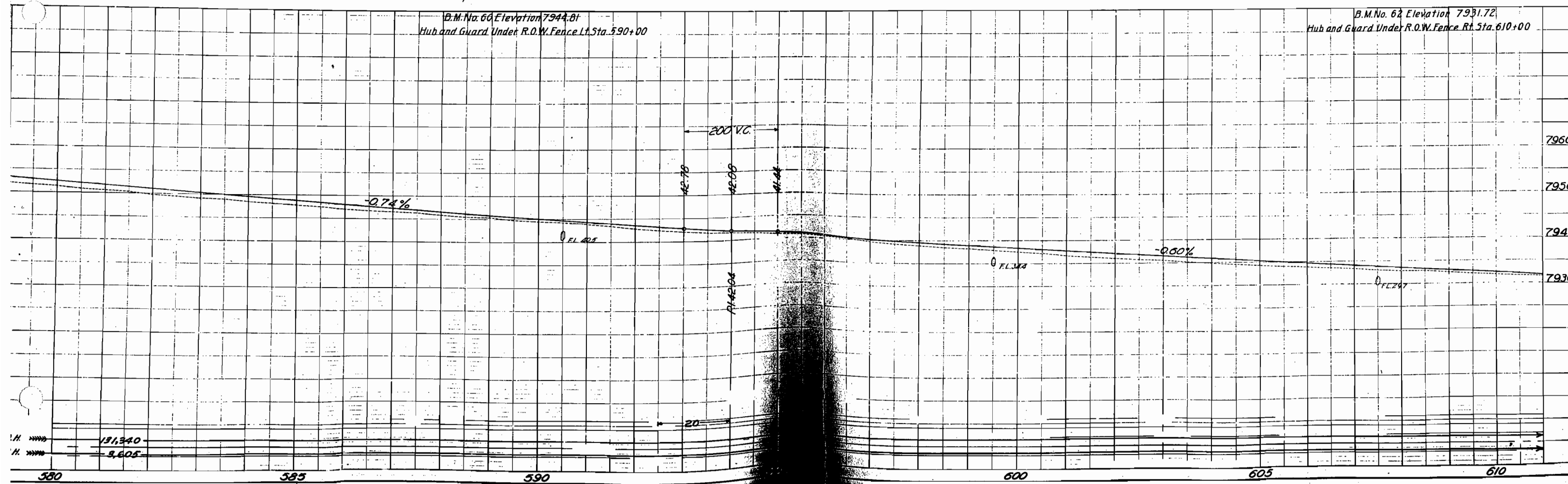
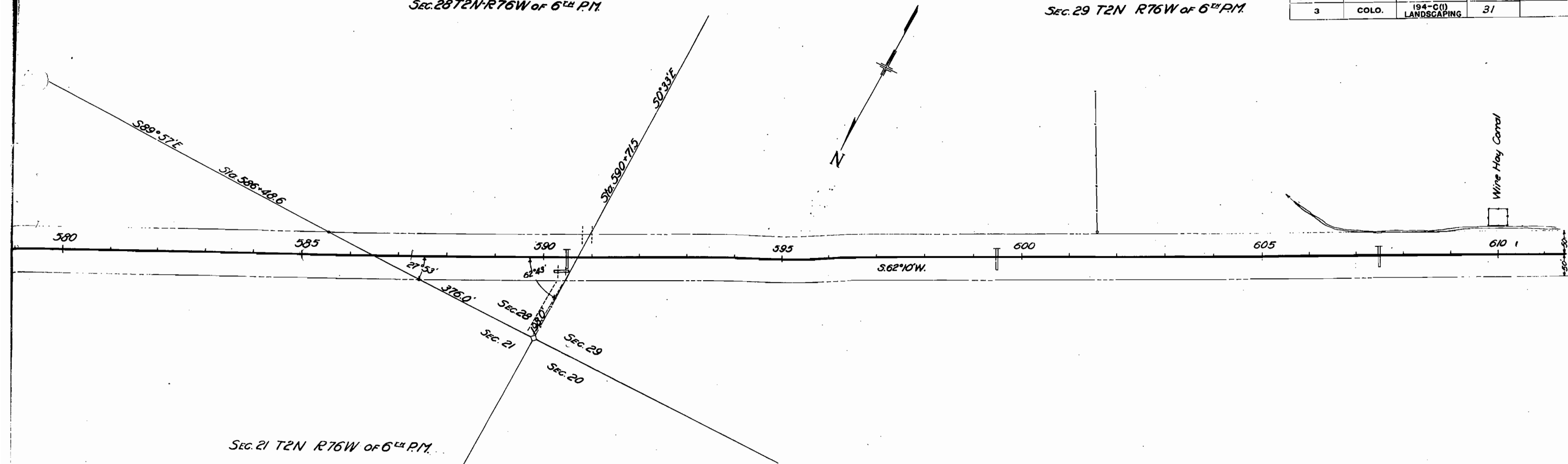
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-C(1) LANDSCAPING	30	



SEC. 28 T2N R76W of 6th PM.

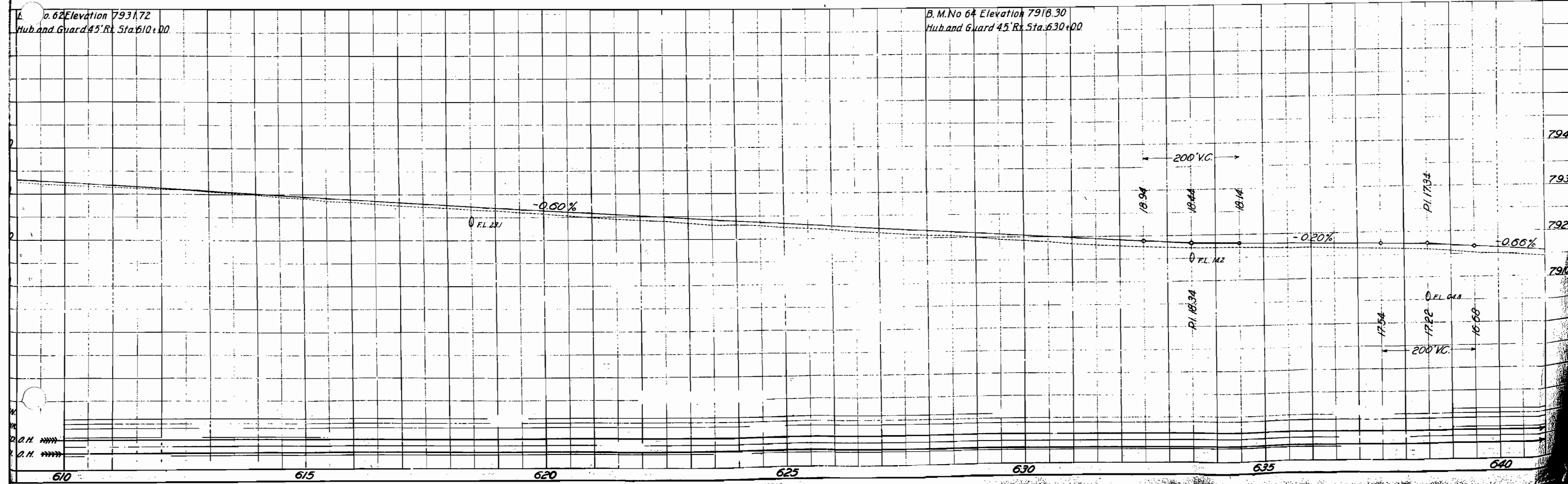
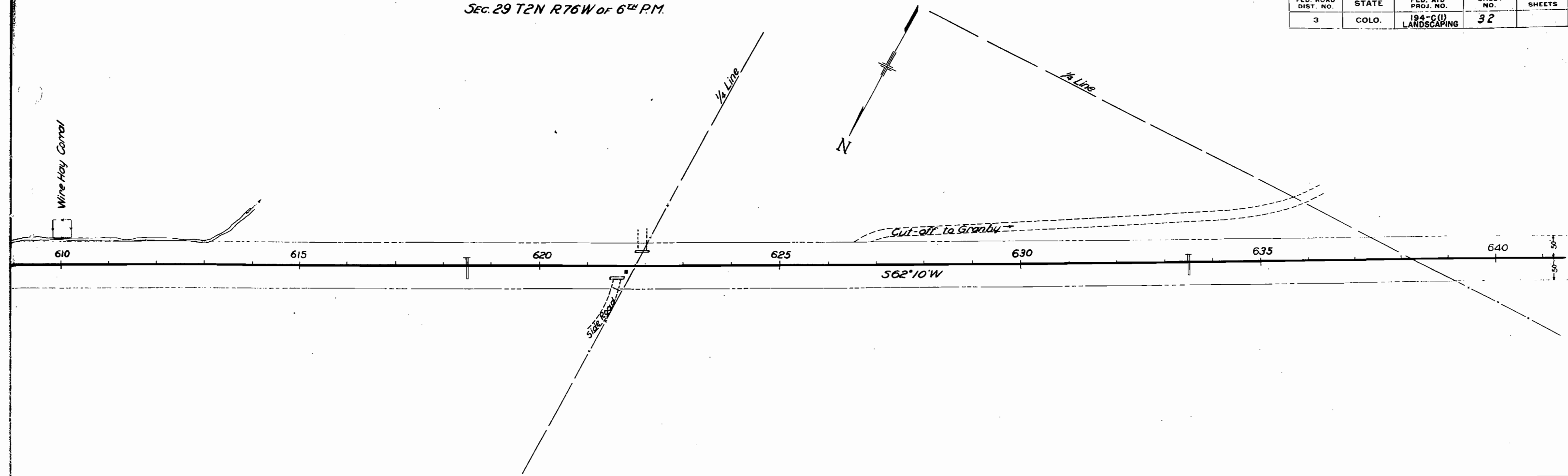
SEC. 29 T2N R76W of 6th PM.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-C(1) LANDSCAPING	31	



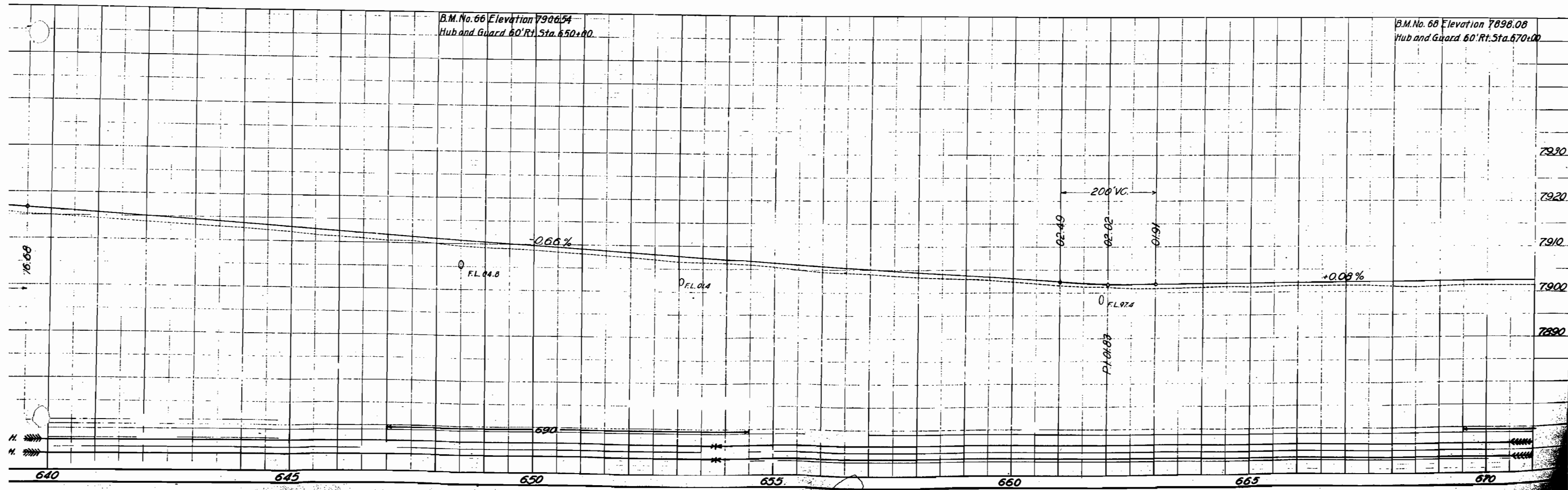
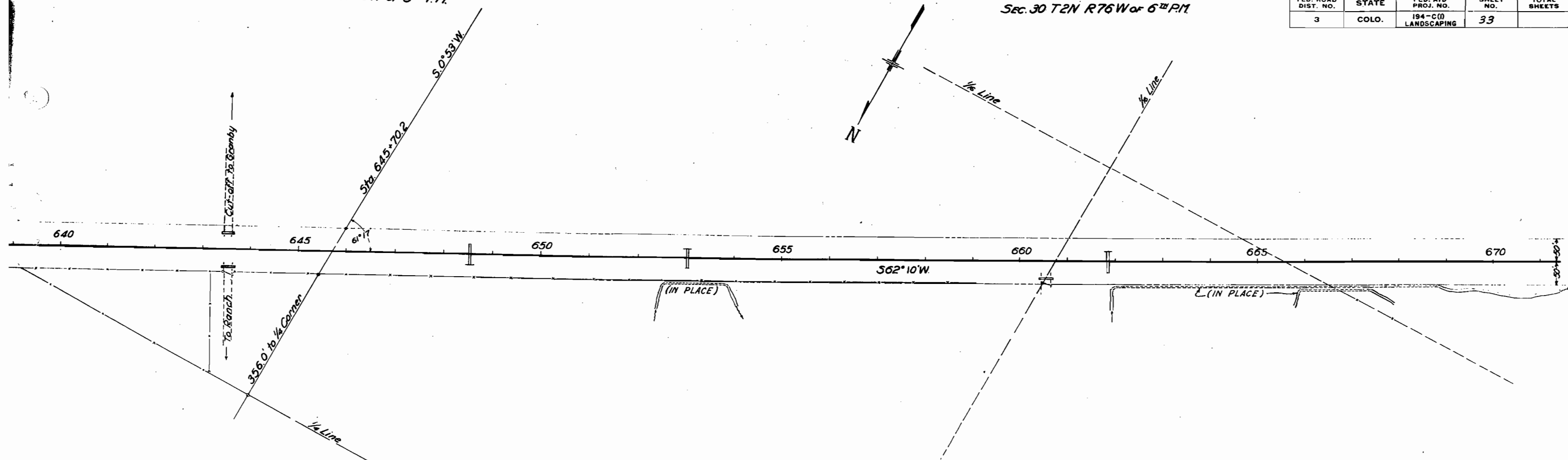
SEC. 29 T2N R76W of 6th PM.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-C(U) LANDSCAPING	32	



SEC. 30 T2N R76W or 6th PM

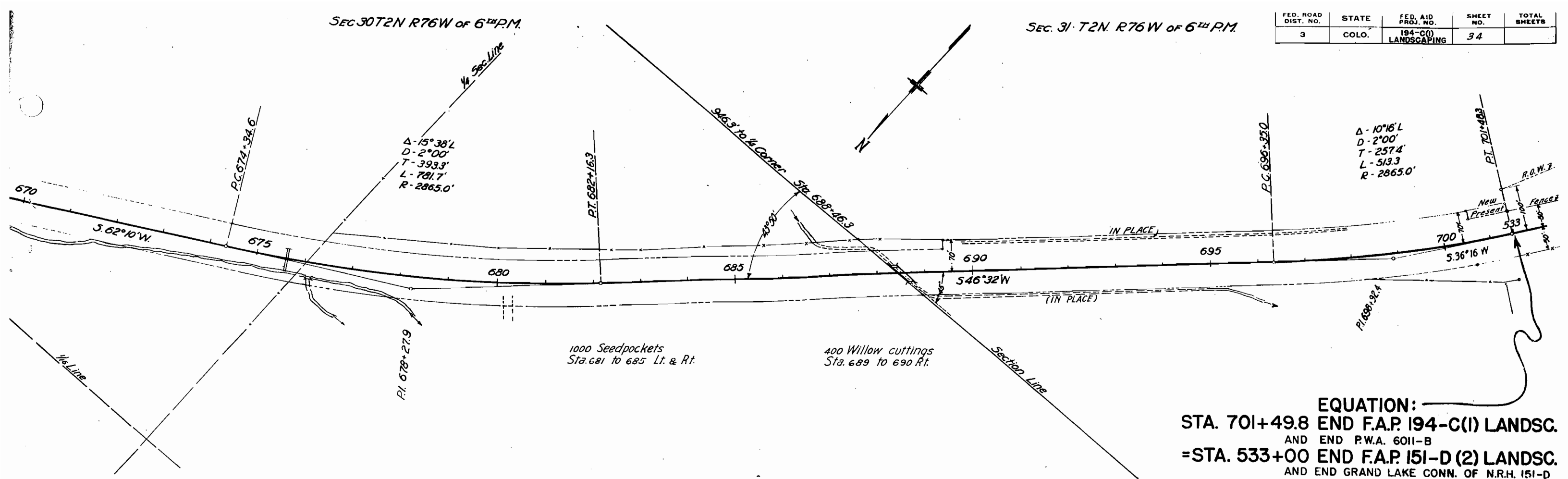
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-C(1) LANDSCAPING	33	



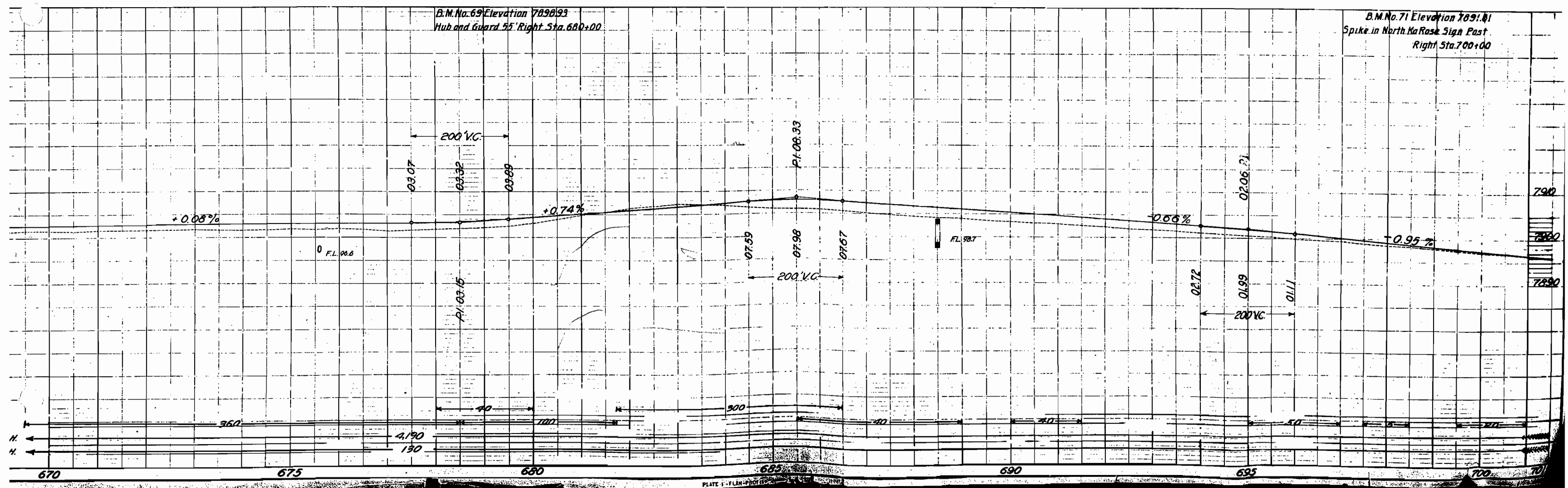
SEC 30 T2N R76W of 6TH PM.

SEC. 31 T2N R76W of 6TH PM.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	194-C(1) LANDSCAPING	34	



EQUATION:
 STA. 701+49.8 END F.A.P. 194-C(1) LANDSC.
 AND END P.W.A. 6011-B
 = STA. 533+00 END F.A.P. 151-D (2) LANDSC.
 AND END GRAND LAKE CONN. OF N.R.H. 151-D



[illegible]