

FED. ROAD DIST. NO.	STATE	F. A. S. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	S 0002 (3)	1	

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- 5 STANDARD TIMBER GUARD POSTS.
- 6 STANDARD SIDE APPROACH ROADS, FLARING, CUT SLOPE TREATMENT AND WIDENING AT BRIDGES. M-2-C
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- 5A STANDARD WIRE FENCES ( TREATED WOODEN POSTS ) M-24-G

# COLORADO STATE HIGHWAY DEPARTMENT

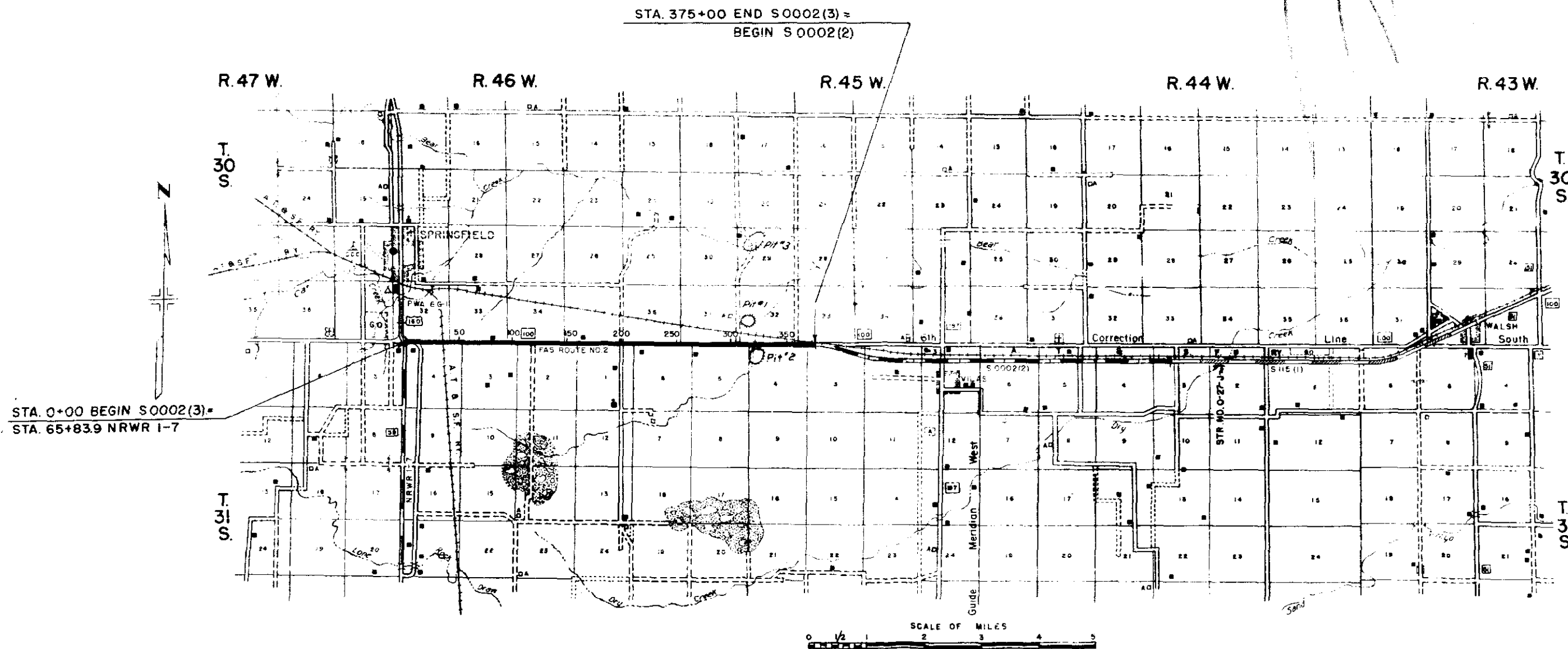
## PLAN AND PROFILE OF PROPOSED FEDERAL AID SECONDARY PROJECT NO. S 0002(3) STATE HIGHWAY NO. 100 BACA COUNTY

**SCALES OF ORIGINAL TRACINGS**  
 ON PLAN, 1 IN. = 100 FT.  
 ON PROFILE 1 IN. = 100 FT. HORIZONTAL  
 1 IN. = 10 FT. VERTICAL  
 GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD  
 GROSS LENGTH OF PROJECT 37,500 FEET = 71.02 MILES  
 NET LENGTH OF PROJECT

### CONVENTIONAL SIGNS

- CENTER LINE OF SURVEY
- RIGHT OF WAY LINES
- COUNTY LINE
- TOWNSHIP LINES
- SECTION LINES
- ONE QUARTER SECTION LINES
- BARBED WIRE FENCE
- TELEPH & TELEG. LINE
- POWER LINE
- RAILROAD

NOTE:  
 It is recommended that bidders on this Project  
 go over the plan details with the following field  
 representatives of this Department.  
 J.A. Solimonsen, Division Engineer, Pueblo, Colo.  
 I.A. Rose, Resident Engineer, Lamar, Colo.



RECOMMENDED FOR APPROVAL

*Jason Bell*  
 DISTRICT ENGINEER  
 4-3-48

APPROVED

*Mark G. Westman*  
 4-5-48

RECOMMENDED FOR APPROVAL DATE

APPROVED DATE

DIVISION ENGINEER  
 PUBLIC ROADS ADMINISTRATION  
 FEDERAL WORKS ADMINISTRATION

# SURFACING PLAN

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
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## LIST OF STRUCTURES

STATION	DESCRIPTION	EXCAVATION			GR. OR CRUSHED ROCK SURFACING TON	MISCELLANEOUS
		CU. YD.				
		UNCL.	EMBANK.	UNCL. DITCH		
0+00 1+62 9+44 13+50	Approach to Project Project Marker Road Appr. Rt. Road Appr. Rt.		100		102	1- Proj. Marker (Work by State Forces.)
			10		17	
			5		54	
35+30 37+85 40+10 79+13	Road Appr. Rt. Road Appr. Lt. Road Appr. Rt. Road Appr. Rt.		5		17	
			100		39	
			5		17	
			5		39	
87+05 118+90 146+85 165+15	Road Appr. Lt. Road Appr. Rt. Road Appr. Lt. Road Appr. Lt.		5		17	
			15		17	
			15		17	
			15		17	
196+60 200+25 217+90 254+24	Road Appr. Rt. Road Appr. Lt. Road Appr. Rt. Road Appr. Lt.		15		54	
			15		54	
			15		17	
			10		17	
262+35 306+00 316+35 324+40	Road Appr. Rt. Road Appr. Lt. Road Appr. Lt. Road Appr. Lt.		10		17	
			5		17	
		20	20		17	
			17		17	
328+30 375+00	Road Appr. Rt. Approach to Project		5		39	
			50		54	
TOTALS		20	425		716	

MATERIAL TO BE PLACED	SOURCE	AVAILABLE	QUANTITY		OVERHAUL TON MI.
			TONS USED		
			TOP COURSE	BOTTOM COURSE	
0+00 to 301+70	PIT No. 2 PIT 3000 FT. LT. OF Sta. 324+50, S.W. 1/4 Sec. 32, T. 30 S., R. 45 W.		6,940	16,292	66,371
301+70 to 324+50		525	1,232	FREE	
324+50 to 347+30		525	1,232	FREE	
347+30 to 375+00		638	1,496	560	
Approaches				716	1,660
TOTALS			8,628	20,968	68,591

## SELECTED BORROW MATERIAL PLAN

It is estimated that Selected Borrow for the project is available in the vicinity of the pit indicated in the following tabulation. Estimated quantities involved in this operation are shown below.

Alteration of the Selected Borrow Material Plan as here outlined will be allowed only on written permission from the Department.

MATERIAL TO BE PLACED	SOURCE	QUANTITY		OVERHAUL	
		THICKNESS INCHES	CU. YDS. USED	STA. YD.	YD. MI.
0+00 to 108+00	Roadway Excavation Pit & Lt. of Sta. 322+ to 327+ Pit 3000 ft. Lt. of Sta. 324+50, S.W. 1/4 Sec. 32, T. 30 S., R. 45 W. and Pit Rt. Sta. 324+50 N.W. 1/4, Sec. 4, T. 31 S., R. 45 W.	4	4,396	48,356	21,147
108+00 to 118+35		16	1,879	20,669	6,933
118+35 to 228+00		16	19,901	218,911	62,313
228+00 to 288+00		10	6,402	70,422	9,761
288+00 to 317+00		4	1,180	12,980	805
317+00 to 324+50		6	462	5,082	155
324+50 to 327+00		6	154	1,654	44
327+00 to 375+00		10	5,122	56,342	3,929
SUB TOTAL			39,496	436,456	105,087
* From Roadway Quantities			- 5189		
TOTALS			34,307	436,456	105,087

## FENCING REQUIREMENTS

STATION	SIDE	REMOVE FENCE	REMOVE & REBUILD FENCE
		LIN. FT.	LIN. FT.
0+55 to 1+56	Rt&Lt	120	280
TOTAL		120	280

## R.O.W. MARKERS

STATION	SIDE	NO.
0+54	Rt&Lt	2
1+54	Rt&Lt	2
TOTAL		4

## TIMBER GUARD POSTS

STATION	SIDE	SPACING	NO.
11+14	Rt&Lt	Bridge	20
80+97	Rt		1
81+52	Rt&Lt	Culvert	2
82+07	Lt		1
297+05	Rt		1
297+63	Rt&Lt	Culvert	2
298+18	Lt		1
315+38	Rt&Lt	Bridge	20
TOTAL			48

\* To be classified and paid for as "Unclassified Excavation."  
\* Included in Roadway Excavation quantities. (5708 ÷ 1.10 = 5189)

**PROJECT MARKER POST**  
ITEM NO 818

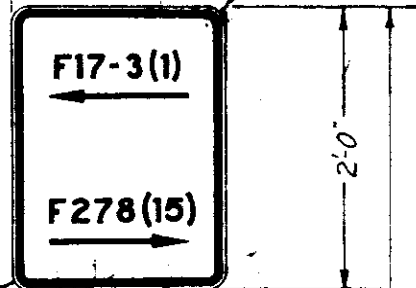
**RIGHT OF WAY MARKER POST**  
ITEM NO 816

REVISIONS

Rev. 6-28-40, A.Z. 1940 Specs  
 Rev. 1-2-46, C.S.D. Item 816  
**STANDARD M-7-B**  
 Rev. 8 Jan. 46 P.S.D. 1/2" to 1/2"  
 Rev. June 10 '46, W.E.M. Bronze Tablet  
 Rev. Mar. 21-1947, W.H.M. - Project Marker Post  
 Rev. Nov. 20-1947, J.P.K. - Metal Project Marker  
 Rev. Dec. 13-1947, J.P.K. - Concrete Base for Metal Project Marker

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3	COLO.	S-0002(6)	4	

Metal Sign conforming to Sec. 141 A.S.H.D. Manual on Uniform Traffic Control Devices.  
 White Background  
 Black Letters & Symbols



**NOTES FOR PROJECT MARKER POSTS**

All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department, adopted January 1<sup>st</sup> 1948

Numbers and arrows shall show the proper numbers and directions of the projects each way from where the post is placed. Post to be set with sign facing the road at the end of the project, two feet inside the R.O.W. line or at a point amply protected from traffic in such a position that the sign will indicate properly the projects to which it refers.

**NOTES FOR R.O.W. MARKER POSTS**

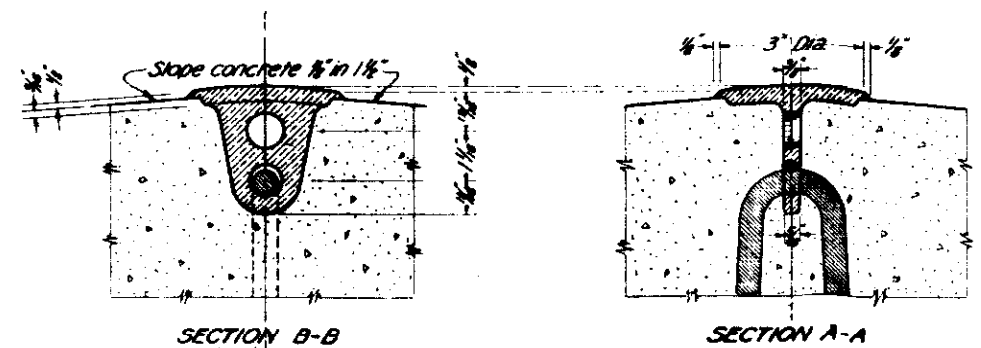
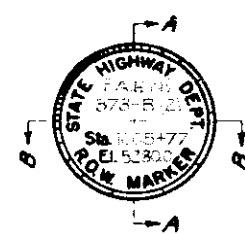
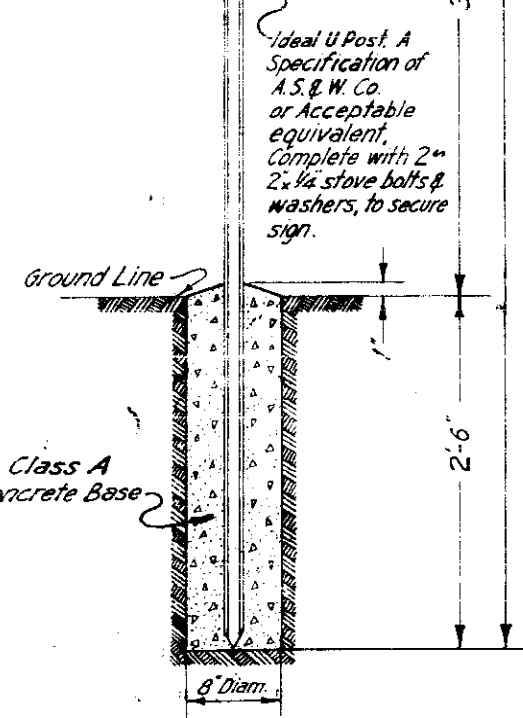
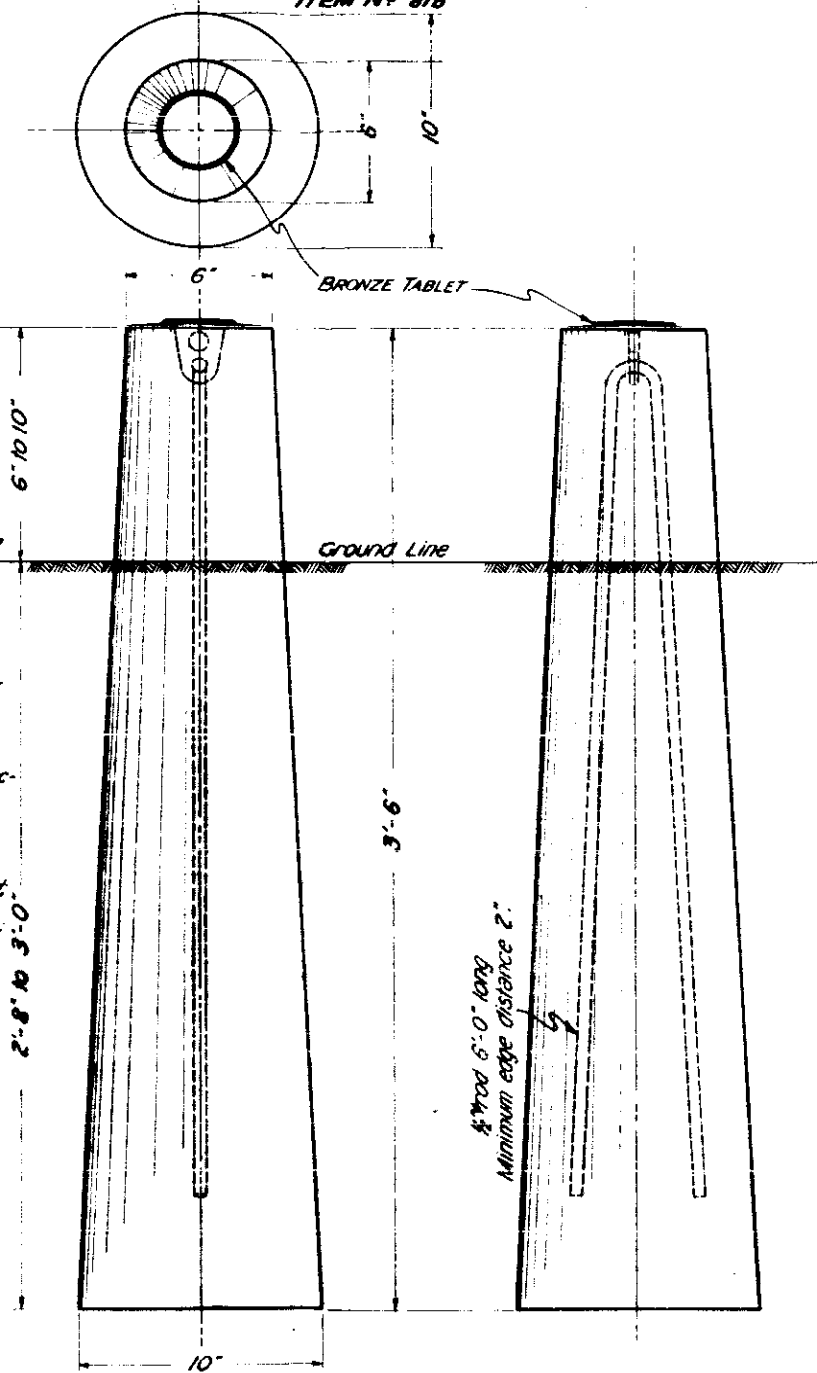
All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department, adopted January 1<sup>st</sup> 1948.

Posts shall be made of Class A Concrete. Posts under 12 inches of marker posts shall be rubbed free of form marks, and the top surface of the post must be constructed to drain thoroughly.

All exposed surfaces of the bronze tablet are to be ground to a smooth surface.

All letters are to be depressed a minimum of 1/16 inch. Information on the bronze tablet indicated by thin lines is to be stamped in the field by the engineering party after post is placed. 1/16 inch letters and figures to be used.

Project designations on tablets shall be properly shown. Thus: F.A.P. No. for Federal Aid Projects, "S.P. No." for State Projects, P.W.A. No. for P.W.A. Projects, etc.



**DETAIL OF BRONZE TABLET FOR RIGHT OF WAY MARKER POST**

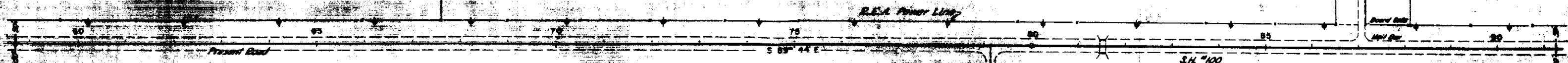
**COLORADO STATE HIGHWAY DEPARTMENT**  
**STANDARD MARKER POSTS**

Designed by REL  
 Made by FFS  
 Checked by REL

Approved by J. H. Marshall  
 Date: January 1<sup>st</sup> 1948







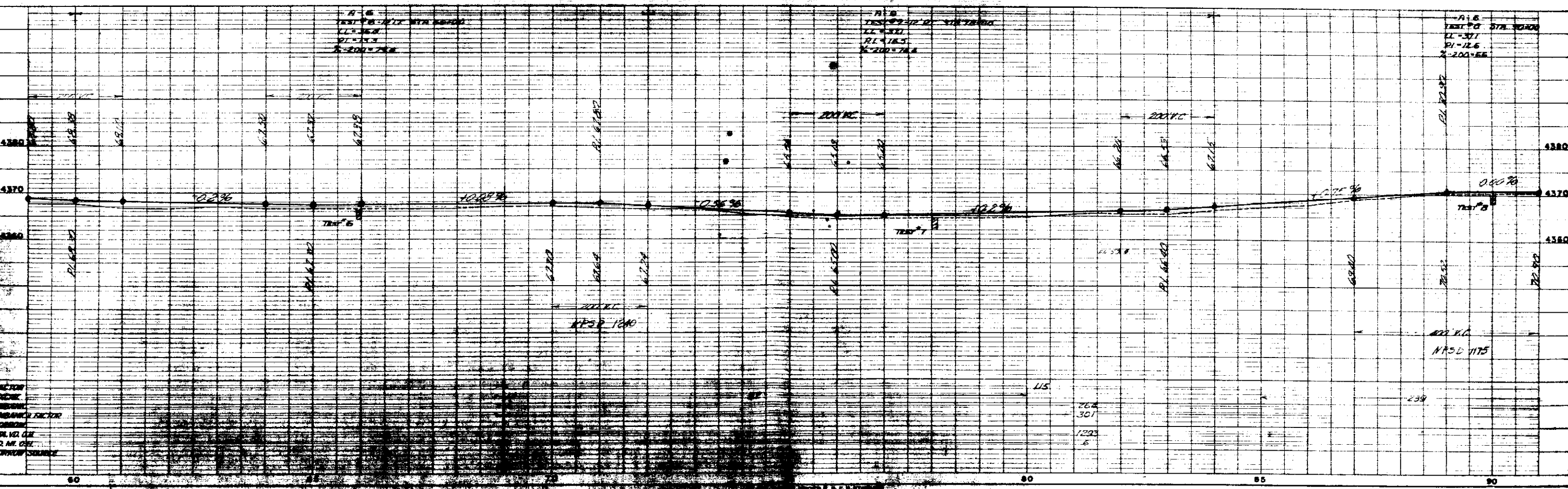
NW 1/4 SEC 3  
T 31 S R 46 W

NE 1/4 SEC 3  
T 31 S R 46 W

PI = 12.6  
R = 200.00  
L = 100.00

PI = 12.6  
R = 200.00  
L = 100.00

PI = 12.6  
R = 200.00  
L = 100.00



SCALE  
1" = 40'  
1" = 20'

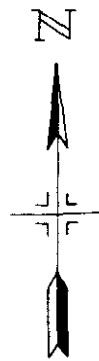
115  
26.4  
307  
1223  
5

239



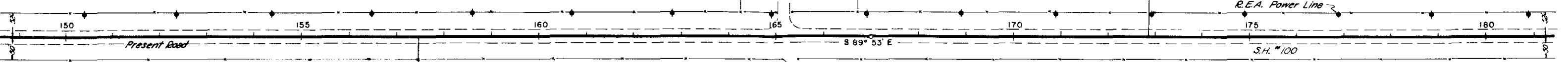


SW 1/4 SEC. 35  
T 30 S R 46 W



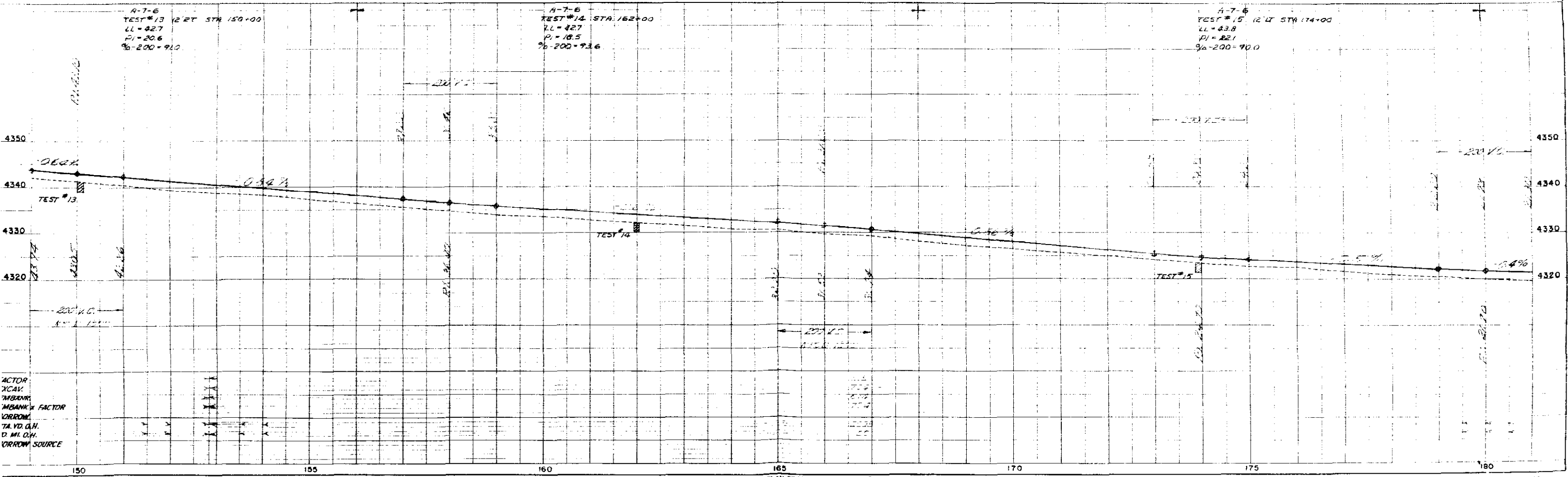
FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	S0002(3)	14	

SE 1/4 SEC. 35  
T 30 S R 46 W

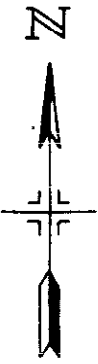


NE 1/4 SEC. 2  
T 31 S R 46 W

NW 1/4 SEC. 1  
T 31 S R 46 W

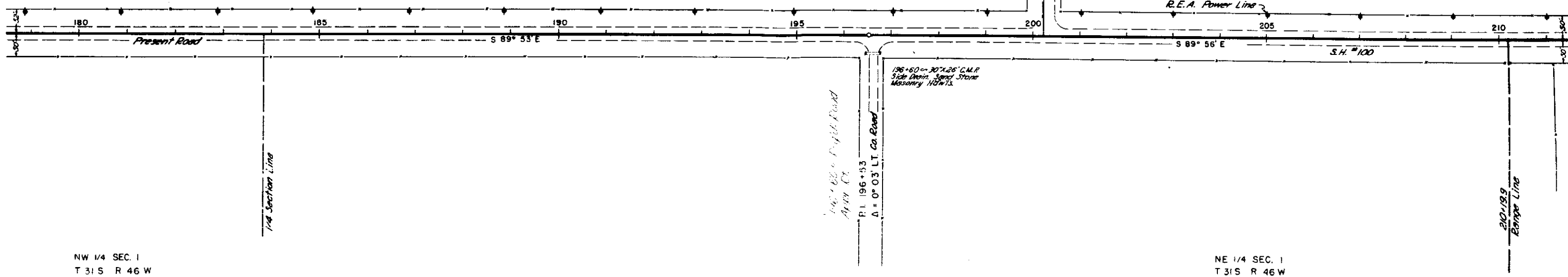


SE 1/4 SEC. 36  
T 30 S R 46 W



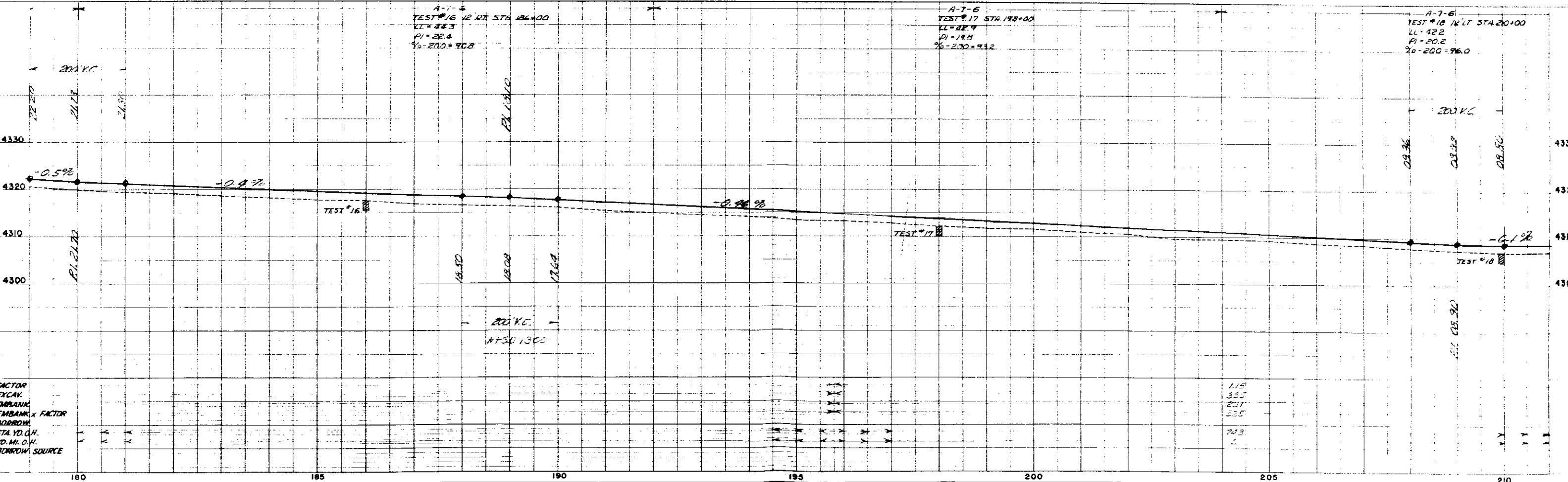
SW 1/4 SEC. 36  
T 30 S R 46 W

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	S0002(3)	15	



NW 1/4 SEC. 1  
T 31 S R 46 W

NE 1/4 SEC. 1  
T 31 S R 46 W



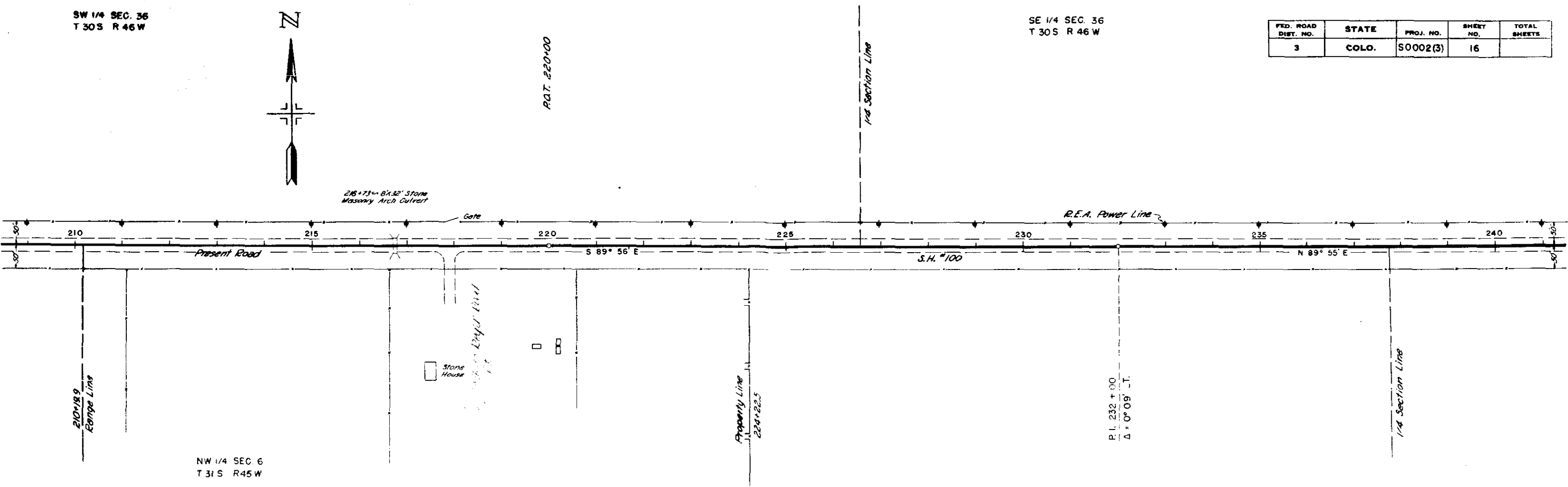
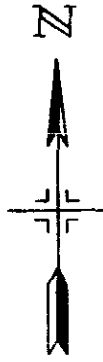
FACTOR EXCAV.  
EMBANK. FACTOR  
BORROW.  
STA. YD. O.H.  
YD. MI. O.H.  
BORROW. SOURCE

1.15  
3.55  
2.57  
5.35  
7.23  
L

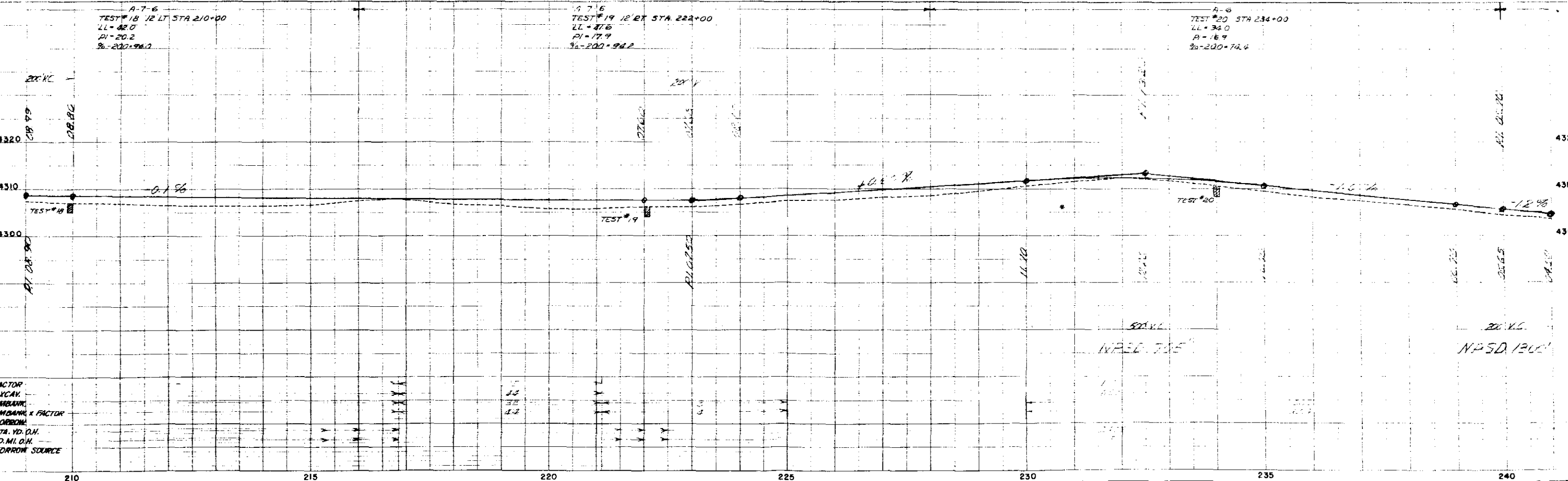
SW 1/4 SEC. 36  
T 30 S R 46 W

SE 1/4 SEC. 36  
T 30 S R 46 W

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	S0002(3)	16	



NW 1/4 SEC. 6  
T 31 S R 45 W



NE 1/4 SEC. 6  
T 31 S R 45 W

NW 1/4 SEC. 5  
T 31 S R 45 W

254+84 - Right of Way  
Appr. Lt.

R.R. Right of Way

R.E.A. Power Line

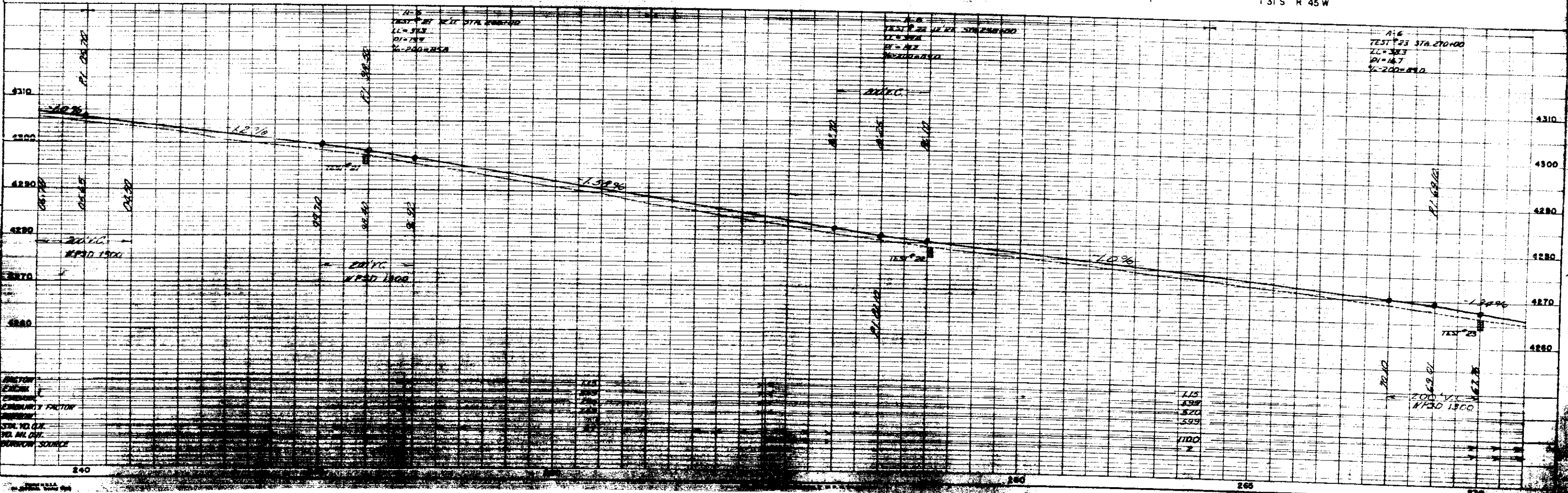
258+75 to 262+10 - Cedar  
Paved - No Wires

S.H. #100

Form  
Holes

262+35 - Right of Way  
Appr. Lt.

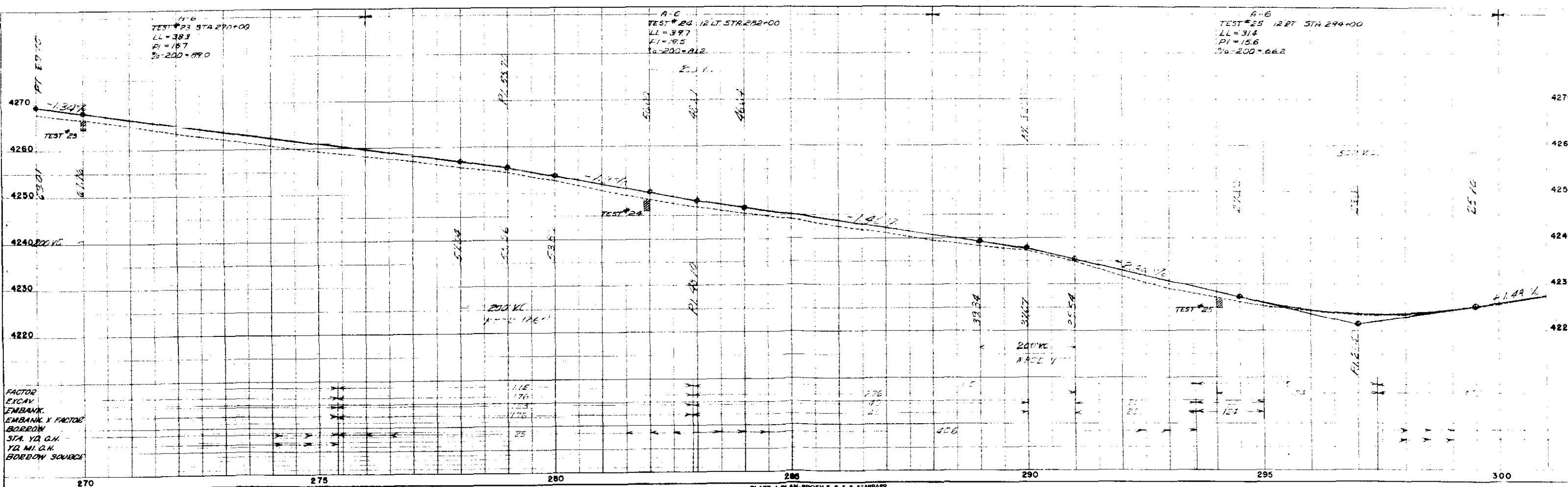
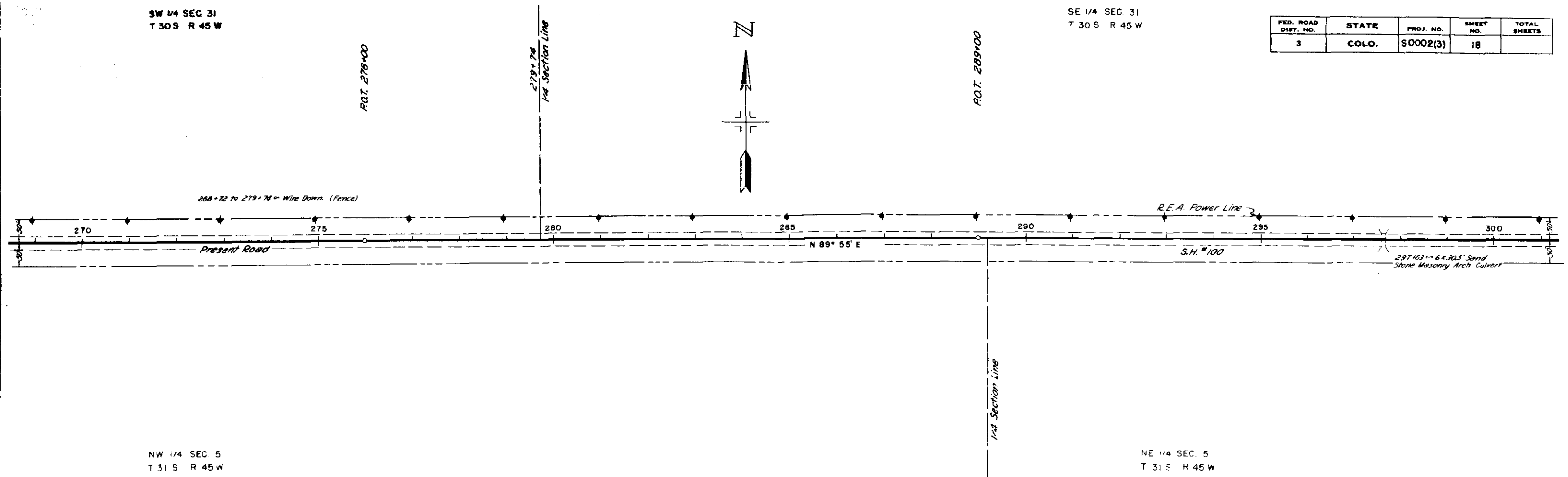
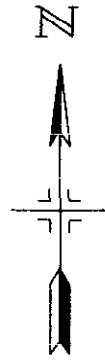
Section Line



SW 1/4 SEC. 31  
T 30 S R 45 W

SE 1/4 SEC. 31  
T 30 S R 45 W

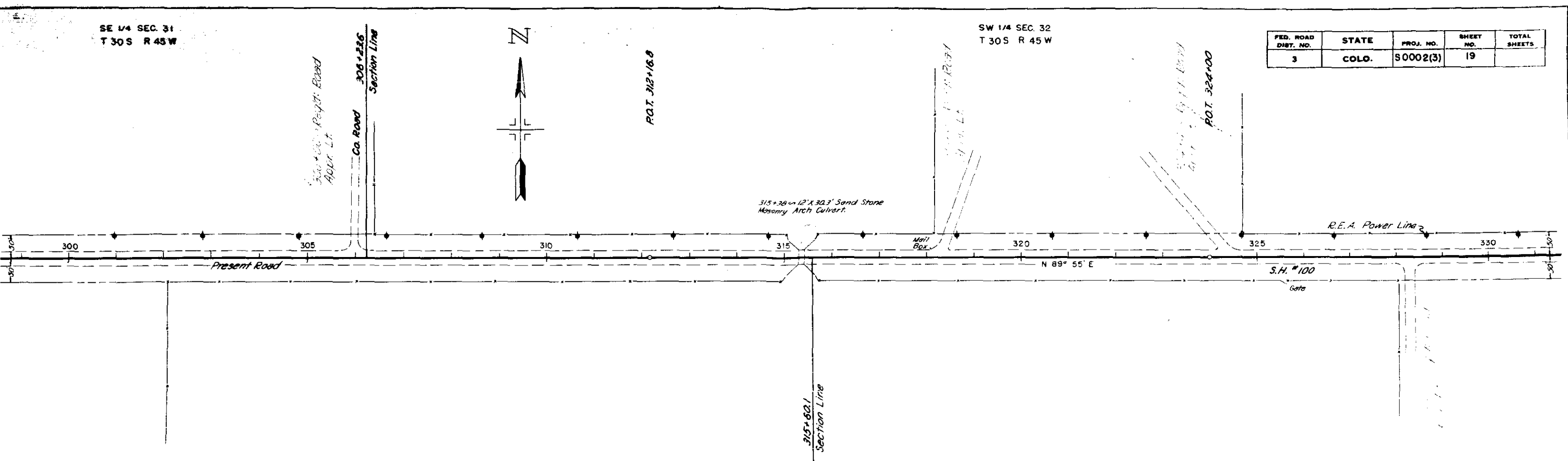
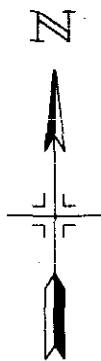
FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	S0002(3)	18	



SE 1/4 SEC. 31  
T 30S R 45W

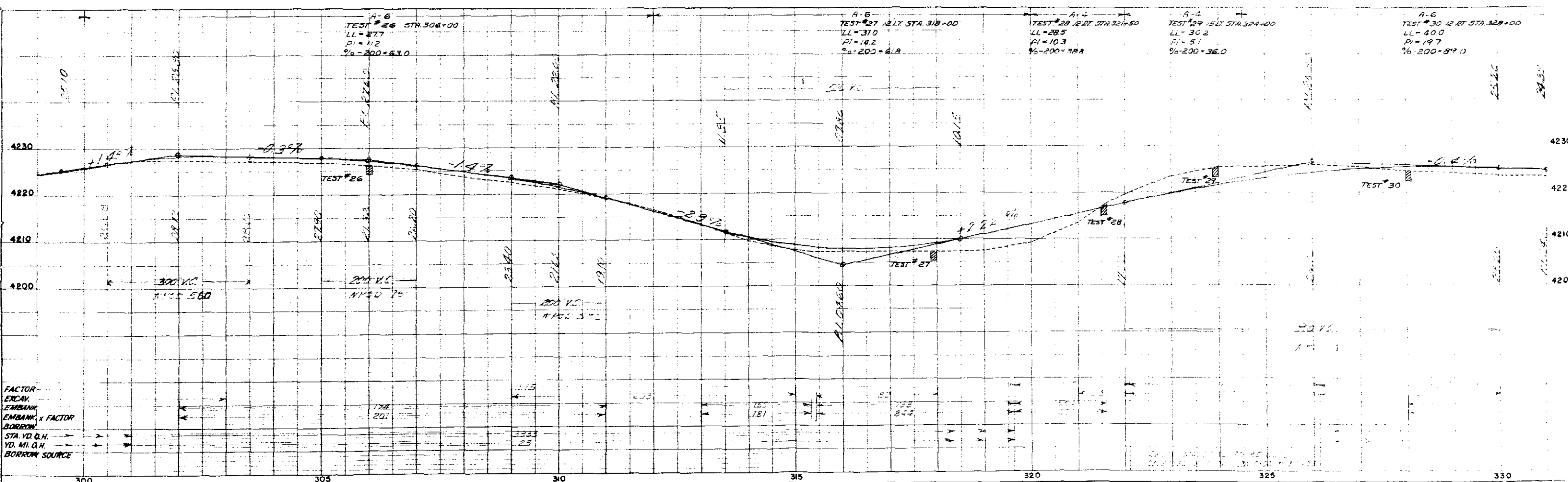
SW 1/4 SEC. 32  
T 30S R 45W

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
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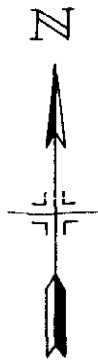


NE 1/4 SEC. 5  
T 31S R 45W

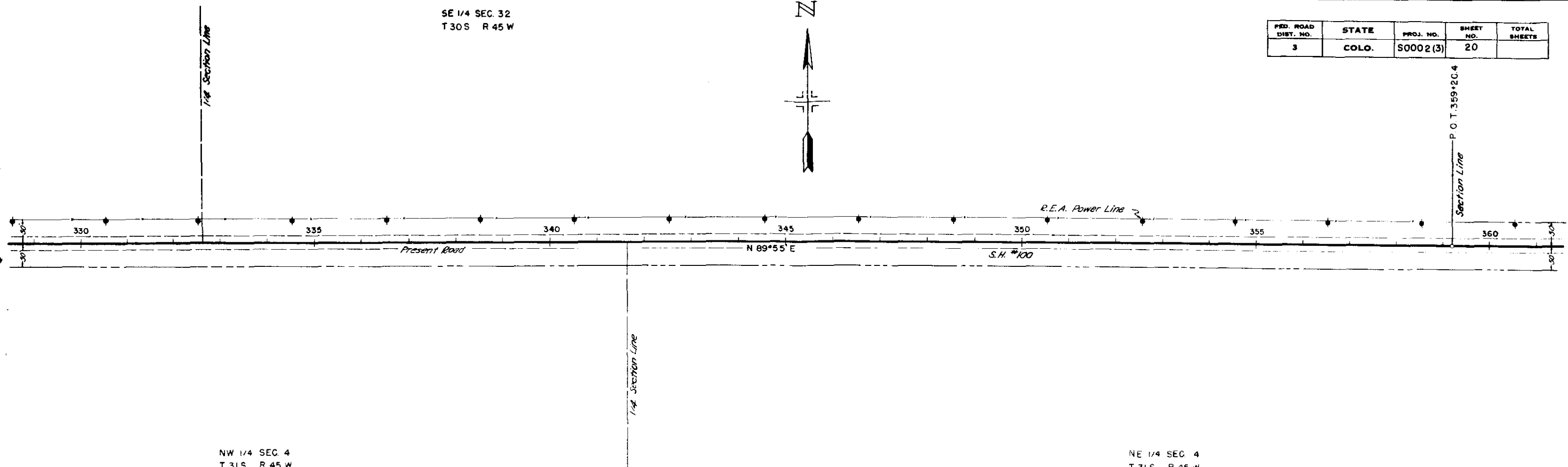
NW 1/4 SEC. 4  
T 31S R 45W



SE 1/4 SEC. 32  
T 30S R 45W

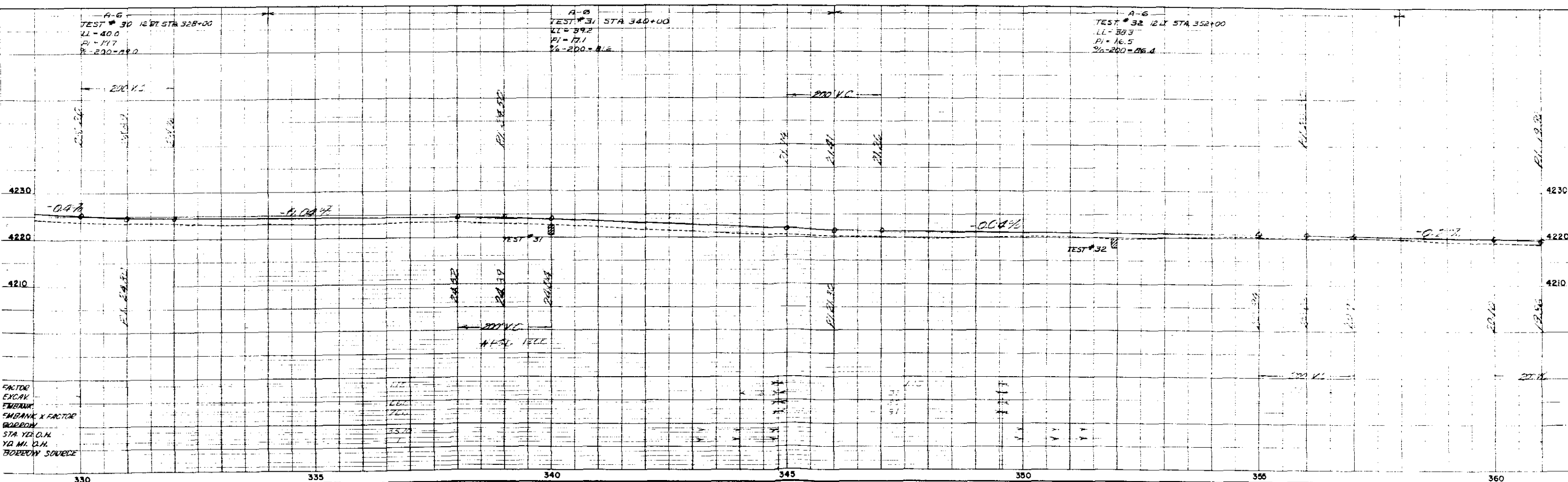


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3	COLO.	S0002(3)	20	



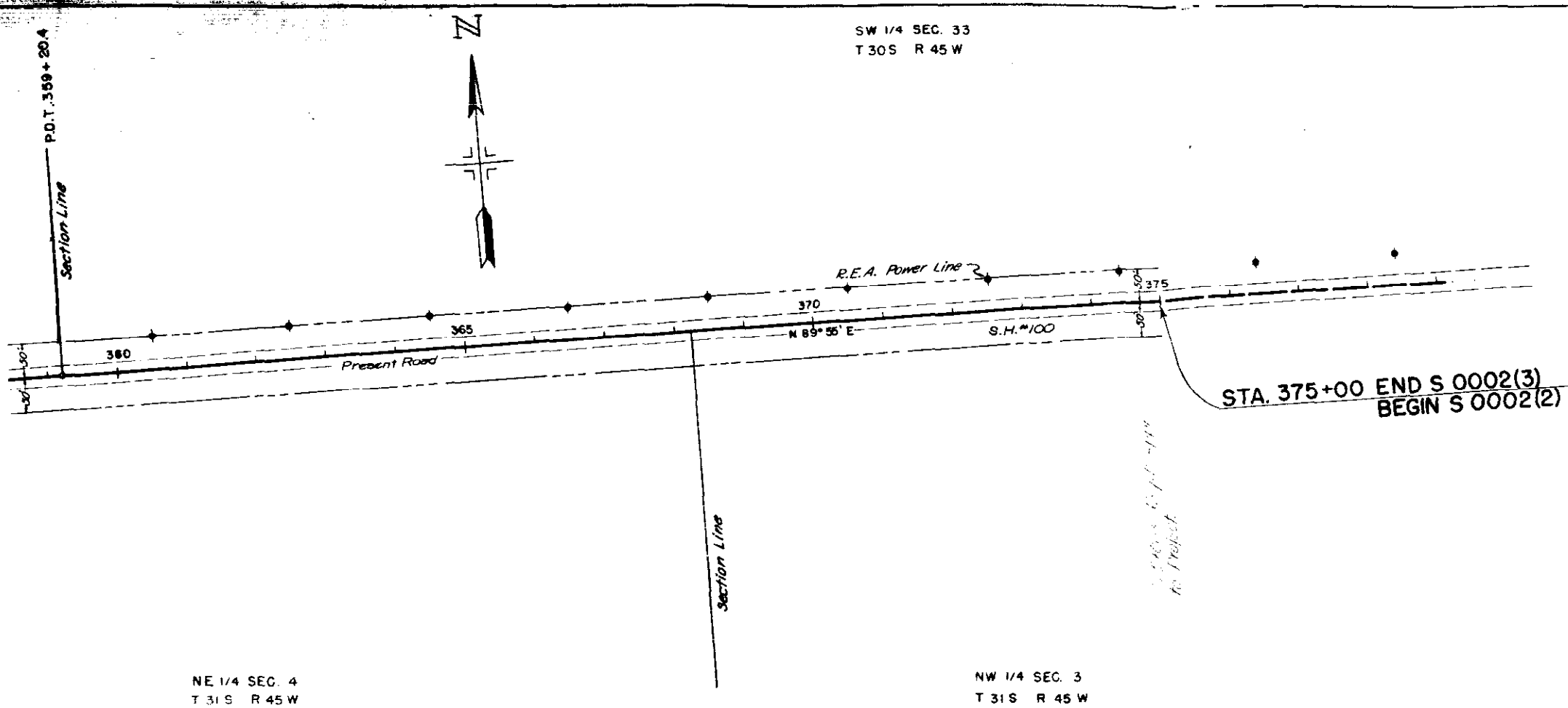
NW 1/4 SEC. 4  
T 31S R 45W

NE 1/4 SEC. 4  
T 31S R 45W



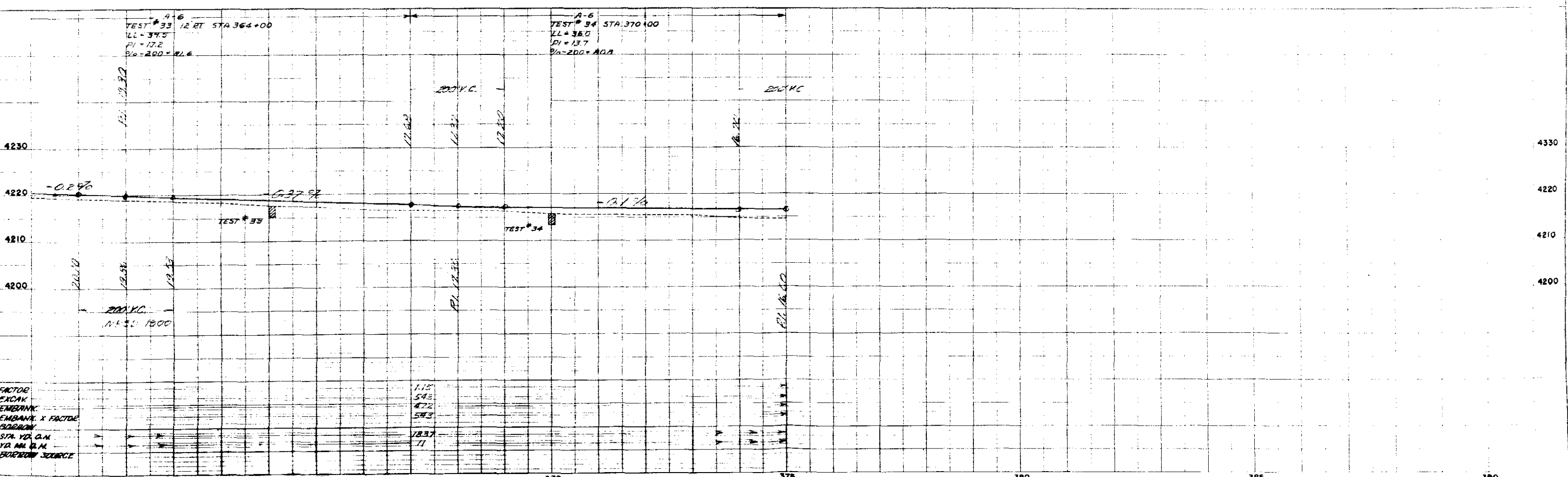
SW 1/4 SEC. 33  
T 30S R 45W

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
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NE 1/4 SEC. 4  
T 31S R 45W

NW 1/4 SEC. 3  
T 31S R 45W



FACTOR  
EXCAV  
EMBANK  
EMBANK X FACTOR  
BORROW  
STA. YD. C.M.  
YD. M. C.M.  
BORROW SOURCE

1.15  
543  
472  
583  
1837  
71