

COLORADO DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. S0002(12) STATE HIGHWAY NO. 100 BACA COUNTY

INDEX OF SHEETS

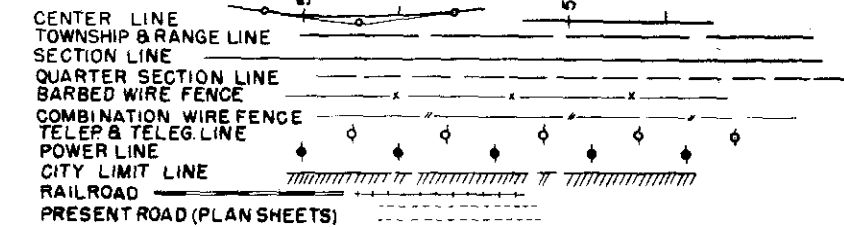
SHEET NO.	DESCRIPTION	REFERENCE
1	SKETCH MAP, TITLE PAGE & TABULATION OF LENGTH AND DESIGN.	
2	TYPICAL SECTION, SURFACING PLAN, SUB-BASE MATERIAL PLAN, TABULATION OF UNCLASSIFIED EXCAVATION AND TIMBER GUARD POSTS.	
3	SUMMARY OF APPROXIMATE QUANTITIES.	
4	PIT LOCATION SHEET	
5	LIST OF STRUCTURES.	
6	STANDARD MARKER POSTS	M-7-B
7	STANDARD TIMBER GUARD POSTS	M-19-C
8	STANDARD METHODS FOR SUPERELEVATION & WIDENING OF CURVES	M-1-B
9	STANDARD SIDE APPROACH ROADS, FLARING, CUT SLOPE TREATMENT & WIDENING AT BRIDGES & AT CREST OF GRADES	M-2-DM
10	STANDARD ROADWAY CONSTRUCTION TRAFFIC SIGNS	M-29-A
11	STANDARD TYPES OF DITCHES AND CONSTRUCTION METHODS	M-107-C
12-18	ALIGNMENT PLAN & PROFILE	
19-20	CROSS SECTIONS	

SCALES OF ORIGINAL TRACINGS

ON PLAN 1 IN. = 100 FT.
ON PROFILE 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL

GROSS LENGTH OF PROJECT } 2,227.7 FEET = 0.422 MILES
NET LENGTH OF PROJECT } 15,578.0 FEET = 2.969 MILES
PROJECT TOTALS 17,805.7 FEET = 3.391 MILES

CONVENTIONAL SIGNS



TABULATION OF LENGTH AND DESIGN

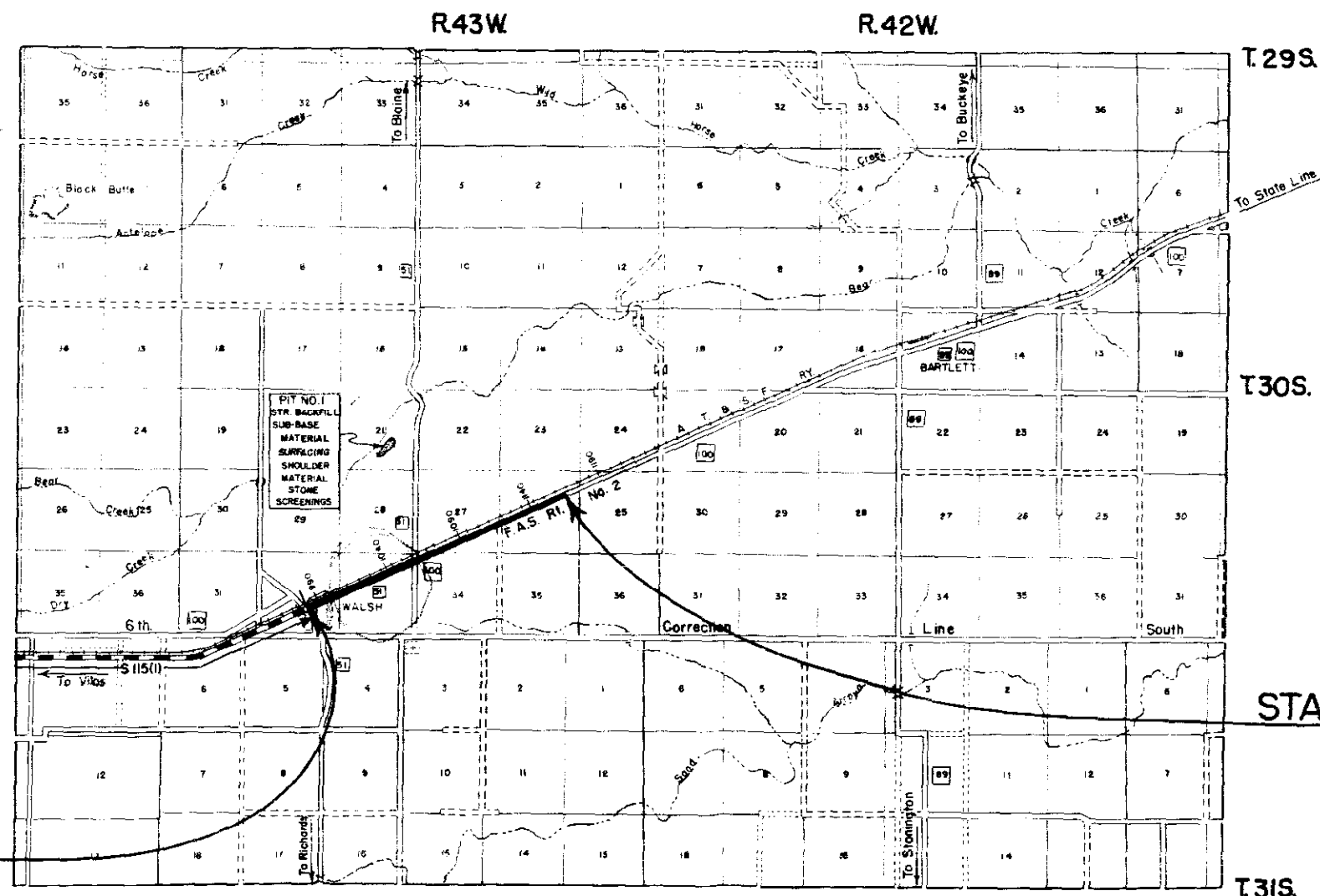
STATION	ROADWAY LIN. FT.	
	INSIDE WALSH	OUTSIDE WALSH
980+96.3 Begin S 0002(12) = Sta. 980+96.3 End S 115(1)	2227.7	
1003+24 Walsh City Limits		6618.4
1069+42.4 Bk. =		9059.6
1160+00 End S 0002(12)		
TOTALS	2227.7	15678.0

SUMMARY

	LINE FT.	MILES
Total S 0002(12) Roadway (Inside Walsh)	2227.7	0.422
Total Net & Gross (Inside Walsh)	2227.7	0.422
Total S 0002(12) Roadway (Outside Walsh)	15678.0	2.969
Total Net & Gross (Outside Walsh)	15678.0	2.969
Net Length S 0002(12) (Inside & Outside of Walsh)	17905.7	3.391
Gross Length S 0002(12) (Inside & Outside of Walsh)	17905.7	3.391

DESIGN DATA

Maximum Grade	1.80%
Maximum Degree of Curve	2°00'
Minimum N.P.S.D. - Horizontal	> 1300'
Minimum N.P.S.D. - Vertical	660'
Maximum Design Speed	60 M.P.H.



NOTICE TO BIDDERS

It is recommended that bidders on this Project go over the plan details with one of the following field representatives of this Department:

J. A. Salmanson, Construction Engineer, Pueblo
L. A. Rose, Resident Engineer, Lamar

COLORADO
DEPARTMENT OF HIGHWAYS

APPROVED: *[Signature]* CHIEF ENGINEER
DATE: *[Blank]*

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
RECOMMENDED FOR APPROVAL:

DISTRICT ENGINEER
APPROVED: *[Blank]*

STA. 980+96.3 BEGIN S 0002(12) =
STA. 980+96.3 END F.A.S. S 115(1)

STA. 1160+00.0 END S 0002(12)

Note:
Soil data shown on the plans is obtained from best available testing laboratory information. This information is shown for convenience of the Contractor and the Department does not guarantee the accuracy of these tests. If materials not conforming to the data on plans are encountered during construction the grading plan shown on plans will be modified where necessary to secure dense, stable embankments.

Alignment and grades as shown are subject to modification during construction after approval by the Denver Office.

Timber Guard Posts are tabulated on sheet No. 2.

OIL MAT
983+07 TO 997+00
(VERY POOR QUALITY WILL BREAK UP WHEN GRADED)

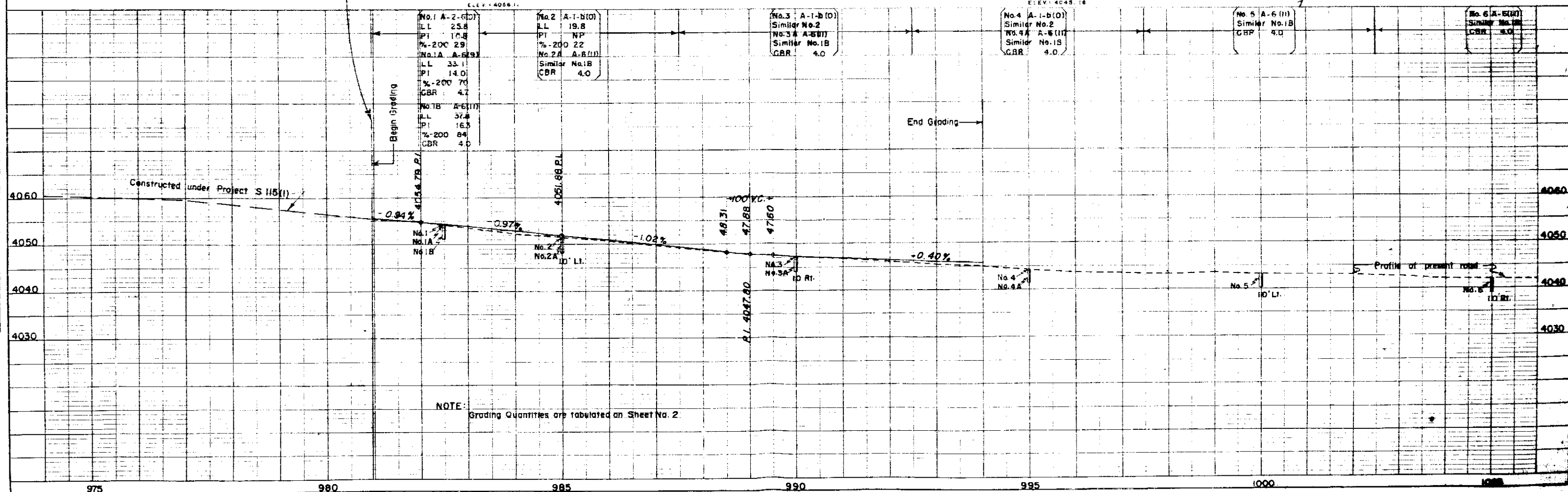
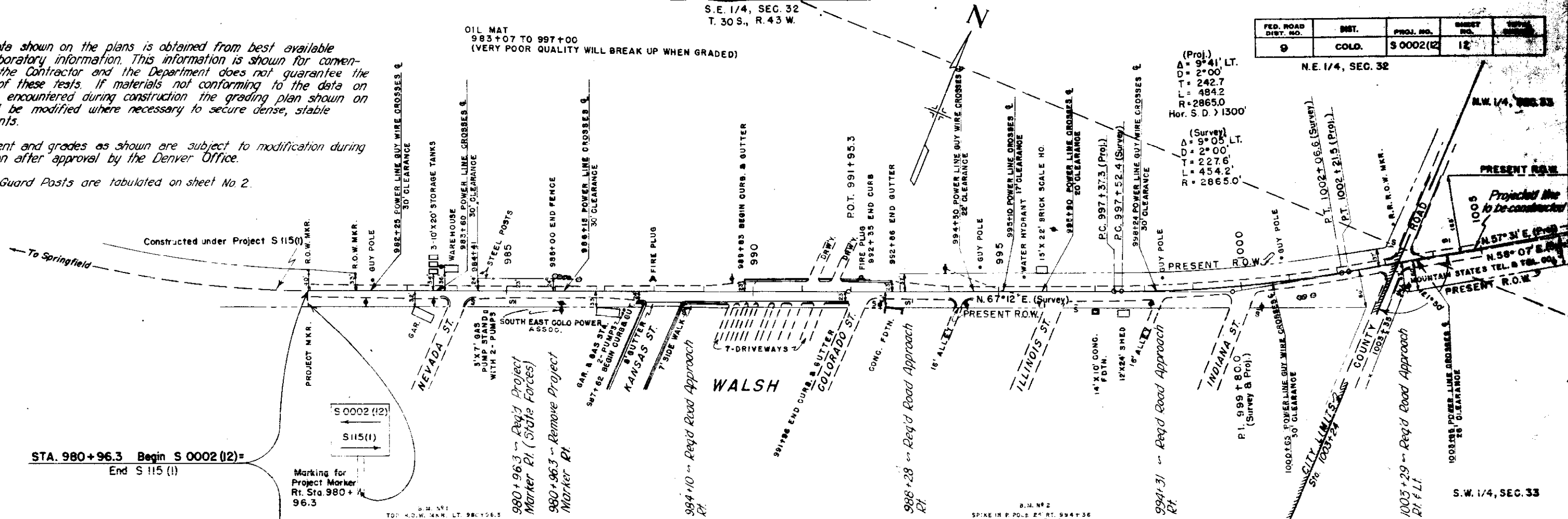
S.E. 1/4, SEC. 32
T. 30 S., R. 43 W.

FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLD.	S 0002(12)	12	

N.E. 1/4, SEC. 32

(Proj.)
Δ = 9°41' LT.
D = 2°00'
T = 242.7
L = 484.2
R = 2865.0
Hor. S. D. > 1300'

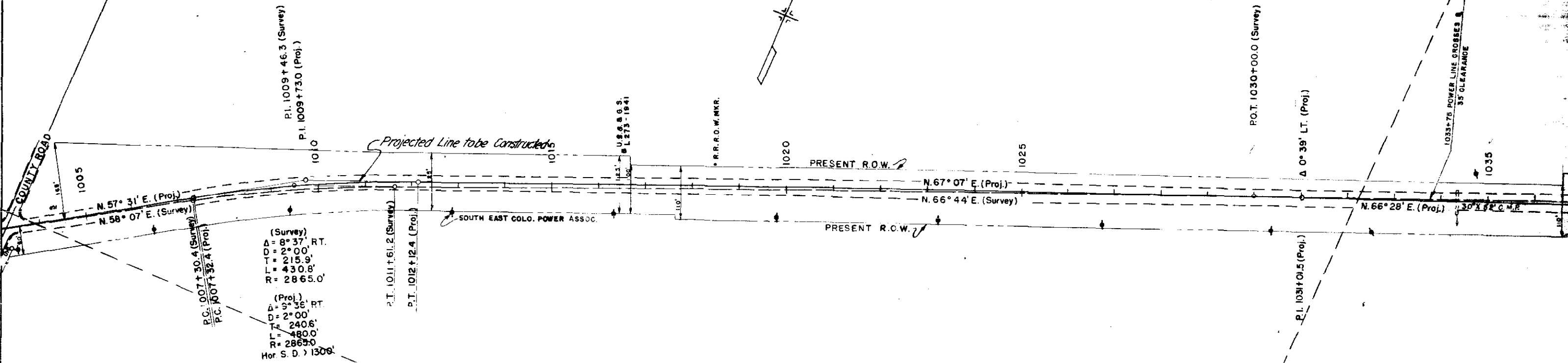
(Survey)
Δ = 9°05' LT.
D = 2°00'
T = 227.6
L = 454.2
R = 2865.0



N.E. 1/4, SEC. 32

N.W. 1/4, SEC. 33
T.30 S., R. 43 W.

FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S0002 (12)	13	

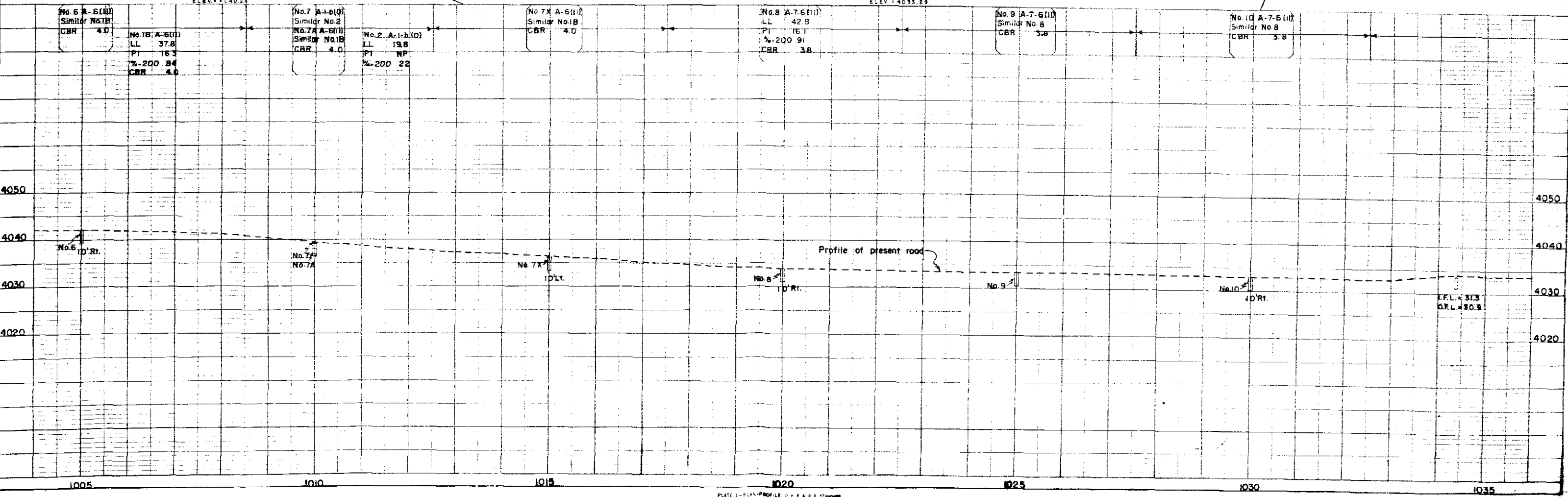


S.W. 1/4, SEC. 33

B.M. N.P. 3
SPIKE IN P. POLE 45' RT. 1009+80
ELEV. 4040.25

B.M. N.P. 4
SPIKE IN P. POLE 65' RT. 1023+36
ELEV. 4033.29

N.E. 1/4, SEC. 33



N.E. 1/4, SEC. 33
T.30 S., R.43 W.

FED. ROAD DIST. NO.	ST.	FILE NO.	DATE
9	COLO.	5000222	1951

S.W. 1/4, SEC. 34

P.O.T. 1040+00.0 (Survey)

P.I. 1048+78.9 (Survey)

P.I. 1052+01.9 (Proj.)

P.O.T. 1060+00.0 (Survey)

SOUTH EAST COLO.
POWER ASSOC.

1035

1045

1050

1055

1065

Projected line
to be constructed.

PRESENT R.O.W.

PRESENT R.O.W.

P.C. 1048+22.2 (Survey)
(Survey)
 $\Delta = 1^{\circ} 08'$ RT
 $D = 1^{\circ} 00'$
 $T = 56.7'$
 $L = 113.5'$
 $R = 5730.0'$

(Proj.)
 $\Delta = 2^{\circ} 05'$ RT
 $D = 0^{\circ} 30'$
 $T = 208.4'$
 $L = 416.7'$
 $R = 11460'$
Hor. S.D. > 1300'

P.T. 1054+10.2 (Proj.)

1061+13 ~ Reqd 24"x44" Side Drain
Lt., Road Approach Lt. & Rt.

N.W. 1/4, SEC. 34

B.M. No. 5
SPIKE IN W.U. POLE 65' LT. 1040+72
ELEV. 4034.75

B.M. No. 6
SPIKE IN W.U. POLE 65' LT. 1054+22
ELEV. 4034.51

No. 11 A-7-6(II)
Similar No. 8
CBR 3.8

No. 8 A-7-8(III)
LL 42.8
PI 16.1
%20D 91
CBR 3.8

No. 12 A-7-6(II)
Similar No. 8
CBR 3.8

No. 13 A-7-6(II)
Similar No. 8
CBR 3.8

Profile of present road

NPSD 660'

1035

1040

1045

1050

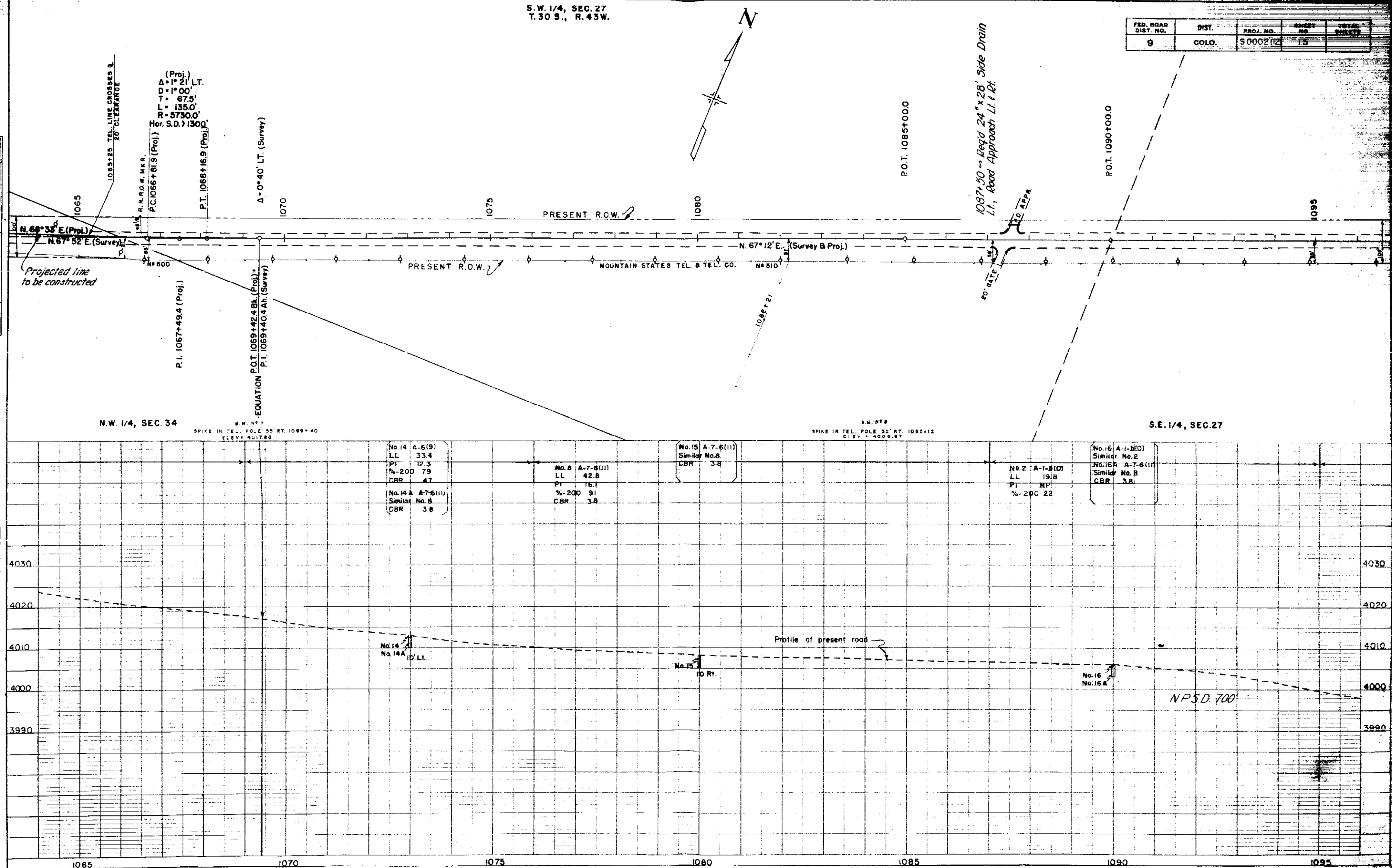
1055

1060

1065

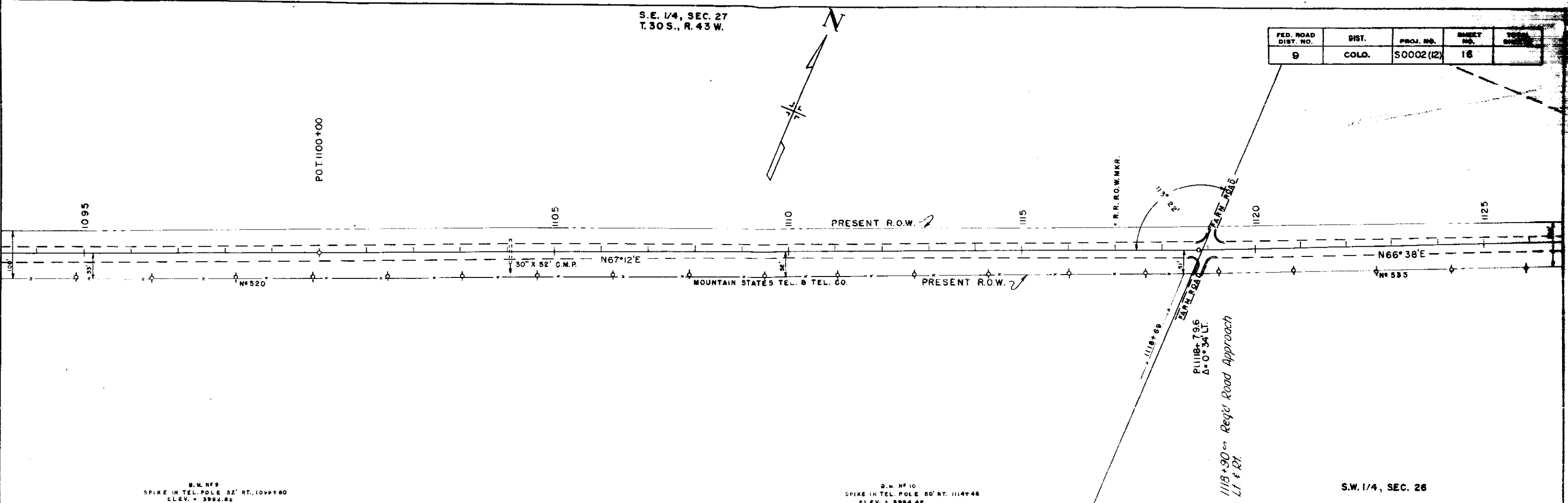
S.W. 1/4, SEC. 27
T. 30 S., R. 43 W.

FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	50002112	15	15

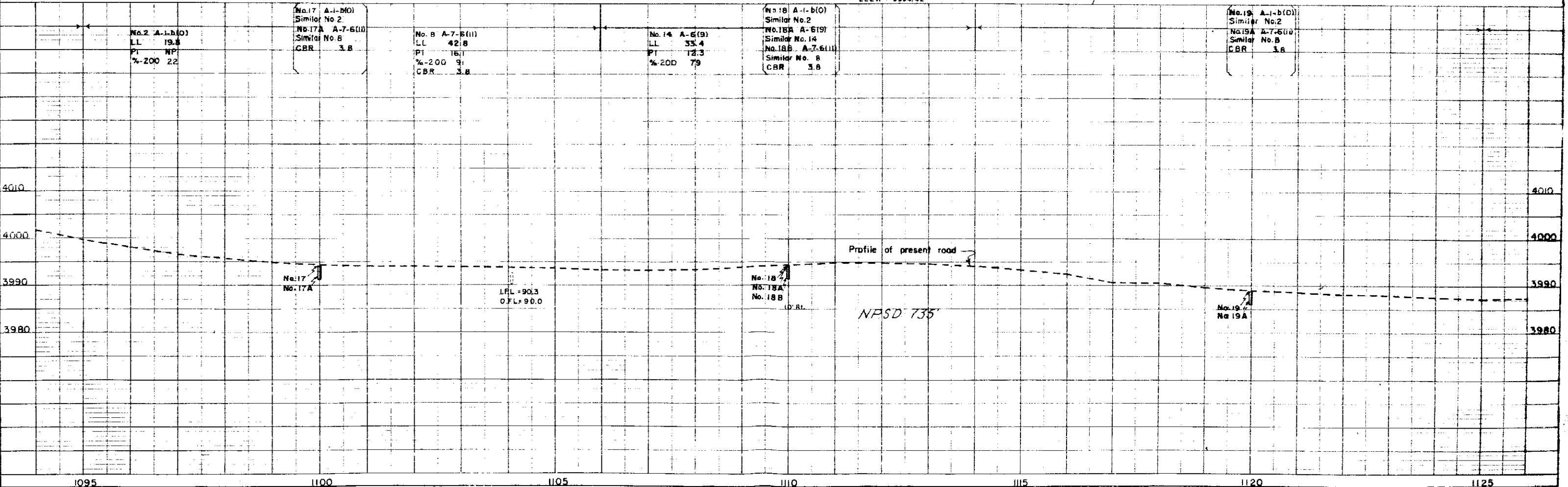


S.E. 1/4, SEC. 27
T.30 S., R. 43 W.

FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLD.	S0002(12)	18	



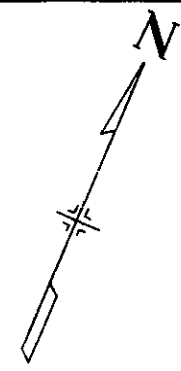
S.W. 1/4, SEC. 26



N.W. 1/4, SEC. 26
T. 30 S., R. 43 W.

FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0002 (12)	17	1

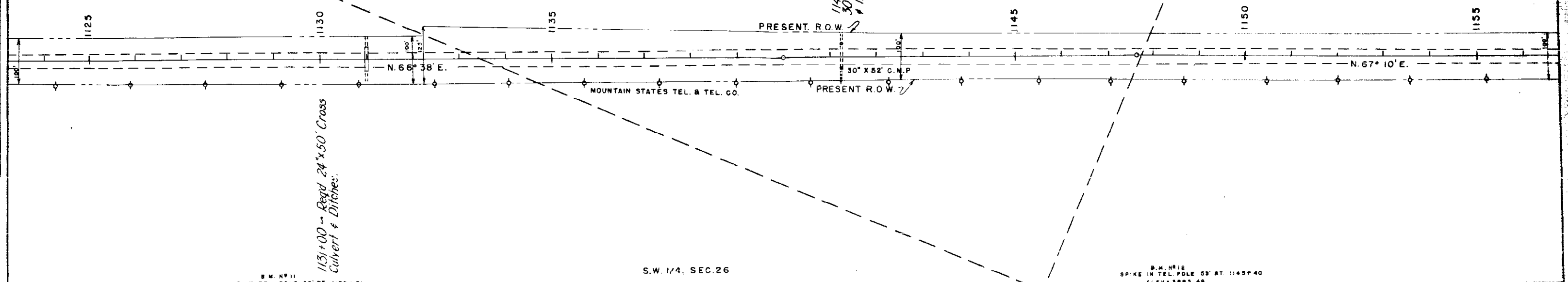
N.E. 1/4, SEC. 26



P.O.T. 1140+00.0

1141+26 ~ Remove 4' Lt. & 8' Rt. of
30' x 52' C.M.P. and extend 4' Lt.
& 12' Rt. Ditches.

P.I. 1147+62.5
Δ = 0°32' RT.



B.M. N°11
SPIKE IN TEL. POLE 55' RT. 1130+75
ELEV. = 3987.66

S.W. 1/4, SEC. 26

B.M. N°12
SPIKE IN TEL. POLE 55' RT. 1145+40
ELEV. = 3985.49

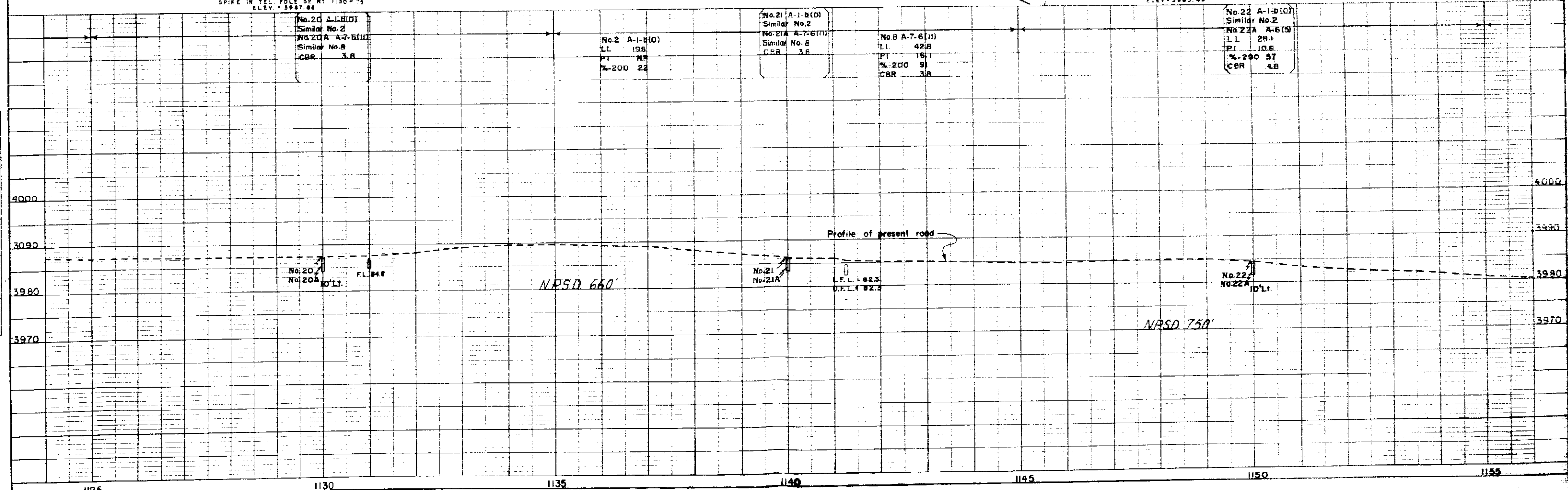
No. 20 A-1-B(10)
Similar No. 2
No. 20A A-7-6(11)
Similar No. 8
CBR 3.8

No. 2 A-1-B(10)
LL 198
PI NR
% -200 22

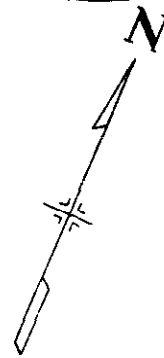
No. 21 A-1-B(10)
Similar No. 2
No. 21A A-7-6(11)
Similar No. 8
CBR 3.8

No. 8 A-7-6(11)
LL 42.8
PI 15.1
% -200 91
CBR 3.8

No. 22 A-1-B(10)
Similar No. 2
No. 22A A-6(5)
LL 28.1
PI 10.6
% -200 57
CBR 4.8



N.E. 1/4, SEC. 26
T. 20 S., R. 43 W.



FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	DATE
9	COLO.	S 0002 (12)	18	

N.W. 1/4, SEC. 25

1160+00 ~ Req'd Project Marker Rt. (State Forces)
1160+00 ~ Req'd Approach to Project

