

COLORADO DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. S0028 (10) STATE HIGHWAY NO. 86 ELBERT COUNTY

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	S 0028 (10)	1	

RIGHT OF WAY
KIOWA-EAST

REVISIONS

INDEX OF SHEETS
SHEET NO.

- 1 Title Sheet
- 2 Tabulation of Properties
- 3-12 Plan and Profile Sheets
- 13-16 Ownership Maps

This project calculated and checked by field.

CONVENTIONAL SIGNS

CENTER LINE	PLAN SHEET	TITLE SHEET
RIGHT OF WAY LINE	ROW MARKER	
COUNTY LINE		
TOWNSHIP OR RANGE LINE		
LAND LINES	SECTION LINE	1/4 SECTION LINE
RAILROAD	TITLE SHEET	PLAN SHEET
BARBED WIRE FENCE		
COMBINATION WIRE FENCE		
SNOW FENCE		
TELEPHONE & TELEGRAPH LINES		
POWER LINE		
DETOUR		
PRESENT ROAD (Plan Sheets)		

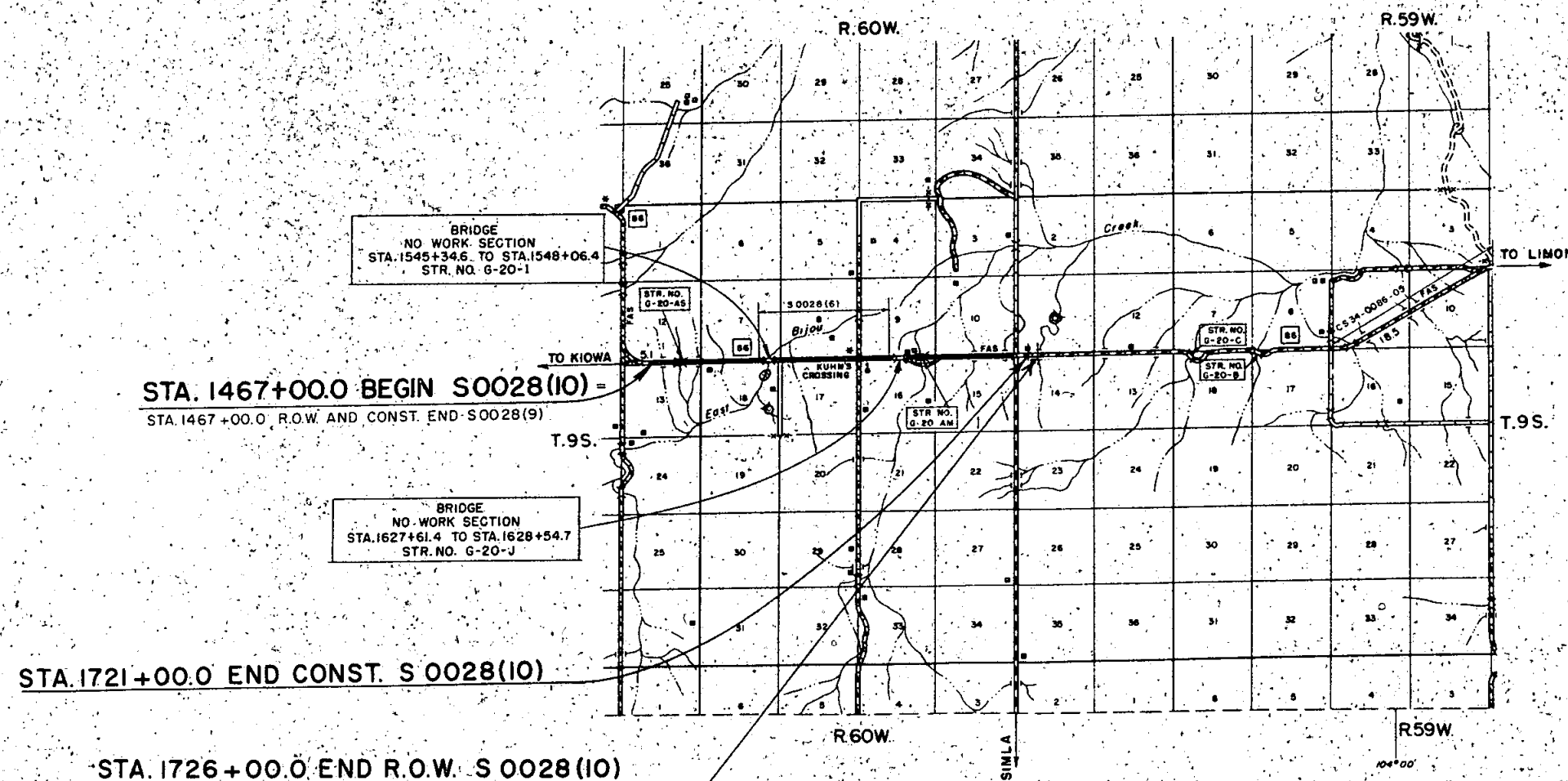
SCALES OF ORIGINAL DRAWINGS

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

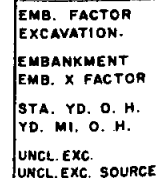
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

NET LENGTH OF PROJECT IN R.O.W. = 4.91 MILES

RIGHT OF WAY

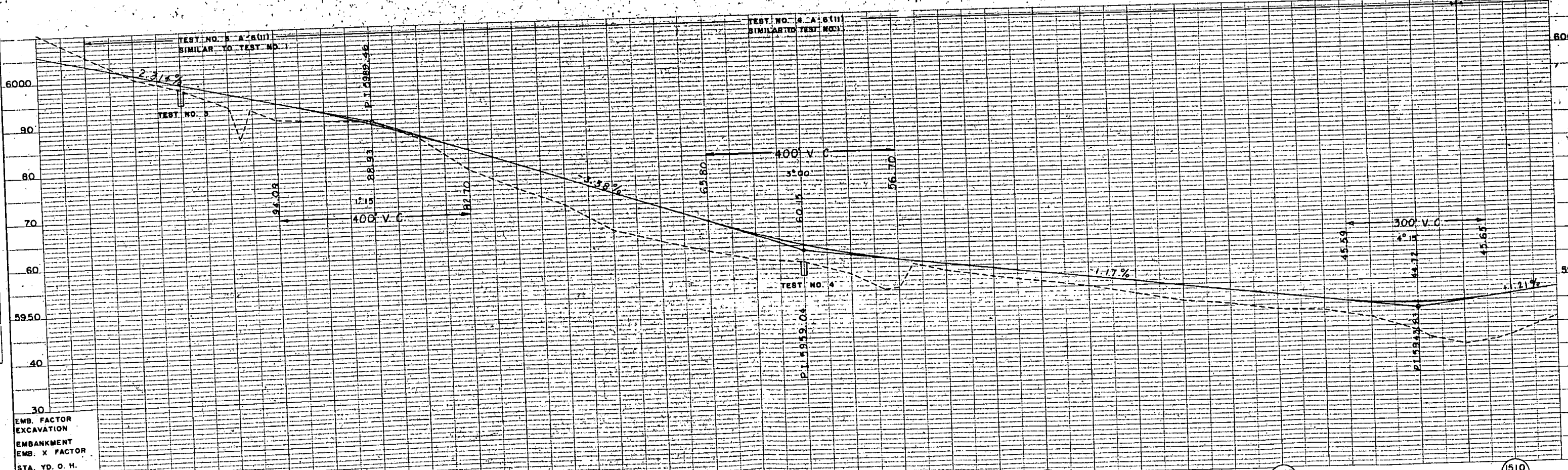
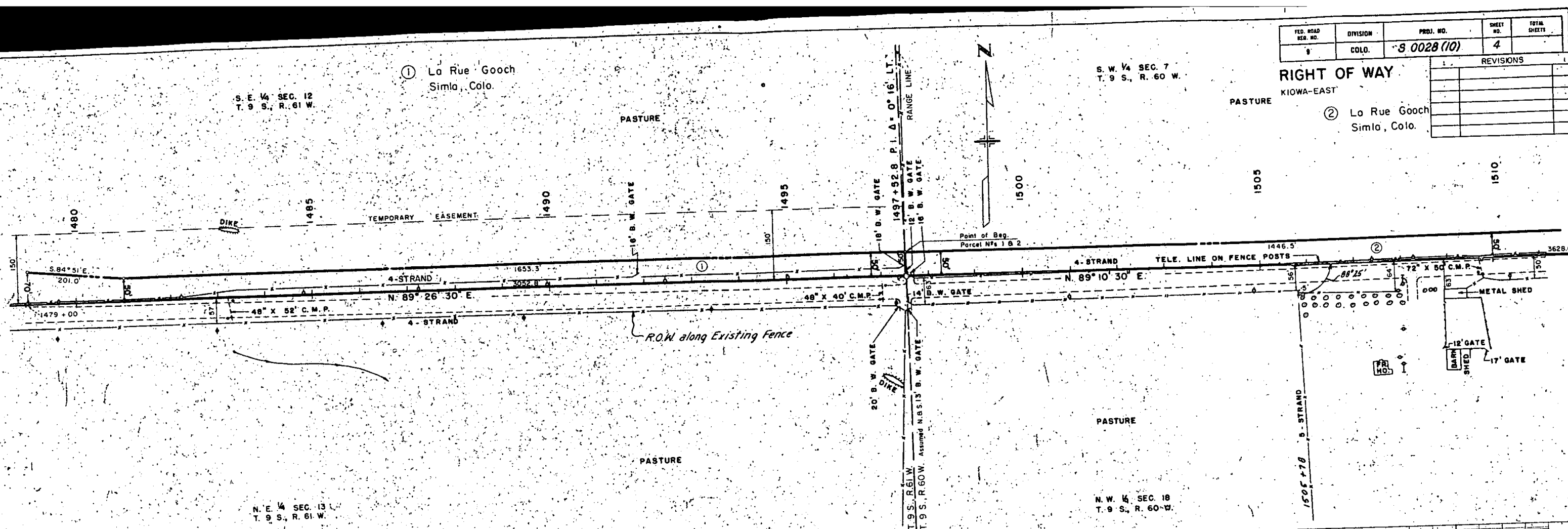


JAK



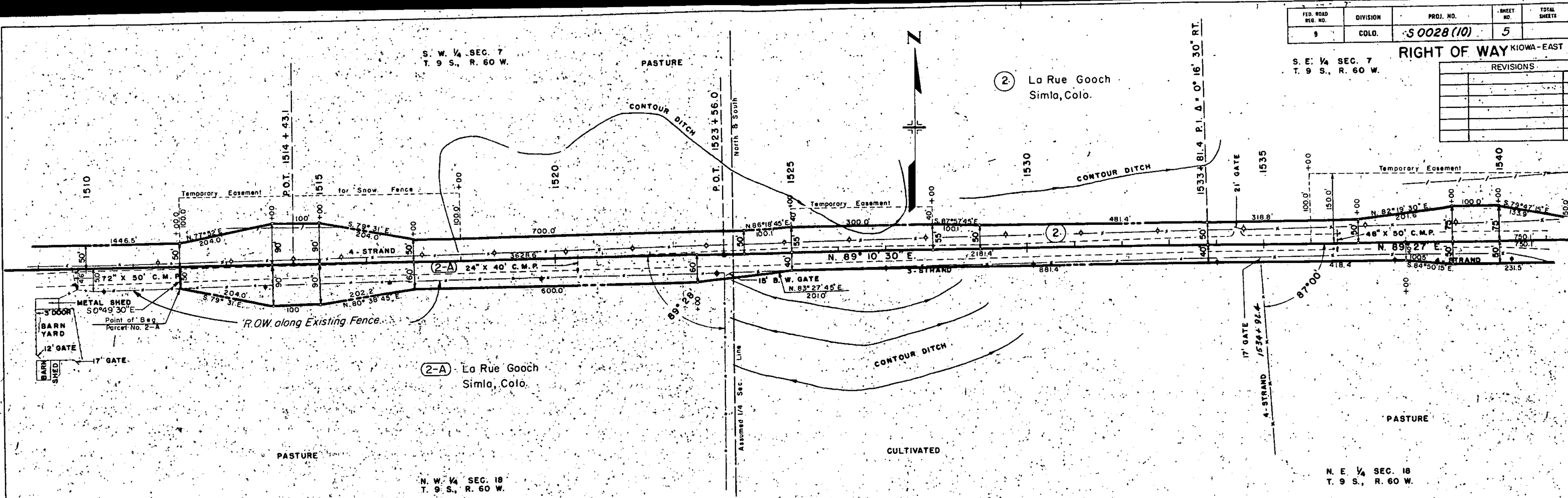
PLAN	DATE	
	BY	D.R.E.
	SURVEYED	
	NOTED	

PROFILE	DATE	
	BY	D.R.E.
	SURVEYED	
	NOTED	



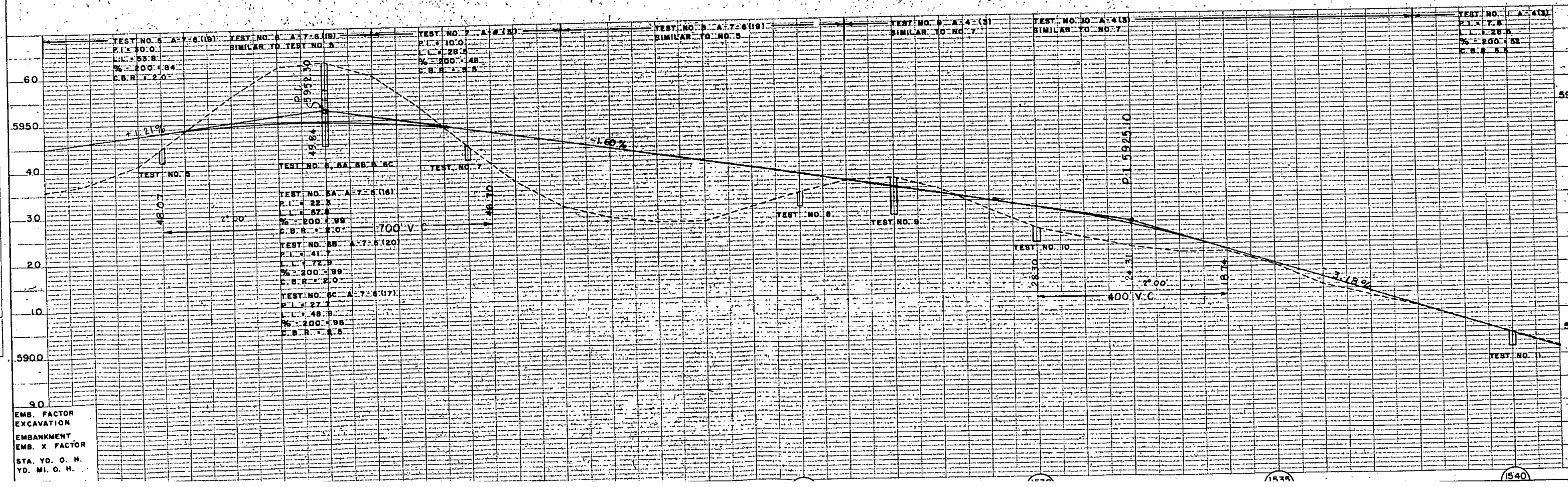
DATE	BY	CHKD.
	D.R.F.	
SURVEYED PLOTTED CHECKED NO. 1459 RI OF WAY CHECKED		
PLAN		

DATE	BY	CHKD.
	D.R.F.	
SURVEYED PLOTTED CHECKED NO. 1460 STRUCTURE NOTED (VS. CHD)		
PROFILE		



FED. ROAD NO. 9	DIVISION COLO.	PROJ. NO. S 0028 (10)	SHEET NO. 5	TOTAL SHEETS
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REVISIONS	
NO.	DESCRIPTION



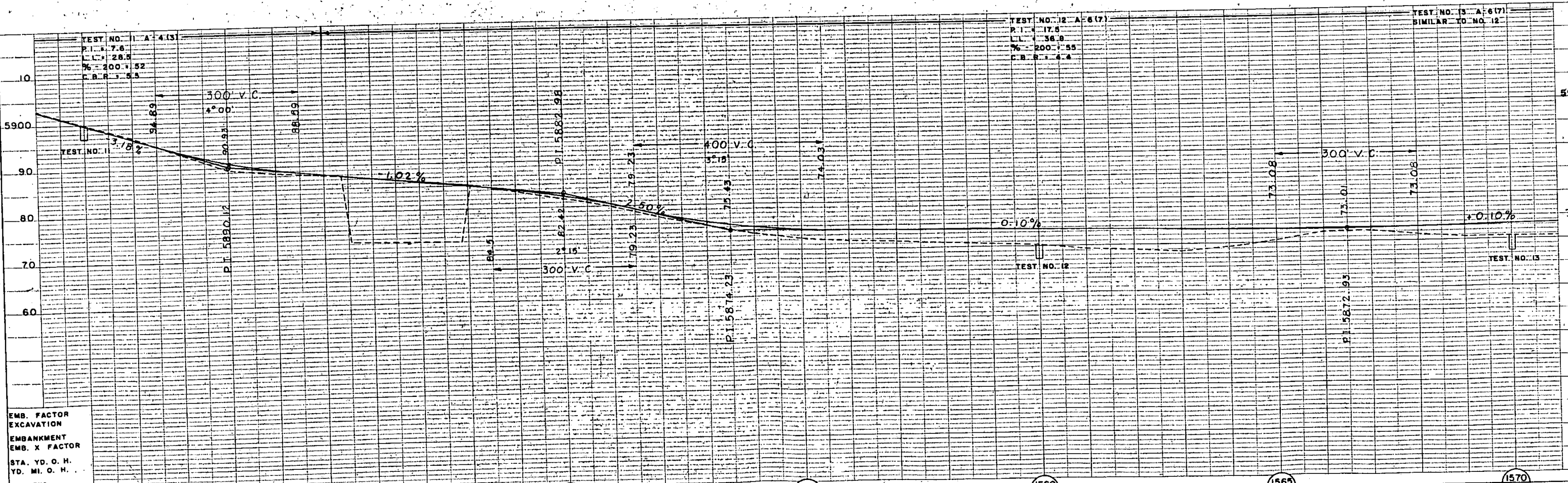
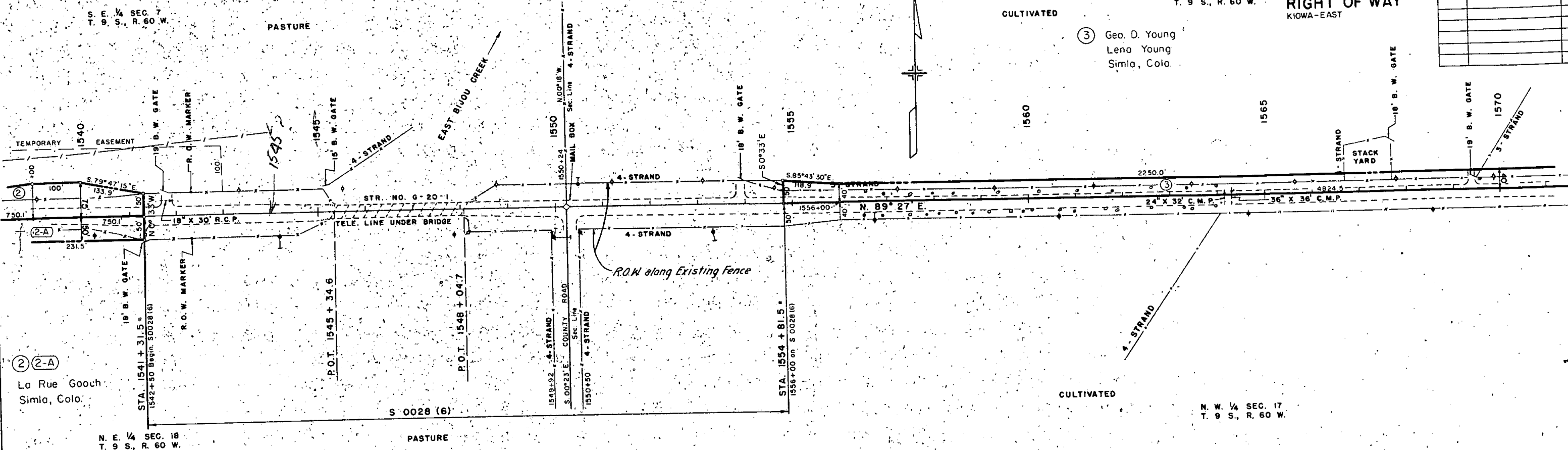
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9	COLO.	5 0028(10)	6	

RIGHT OF WAY
KIOWA-EAST

REVISIONS

S. W. 1/4 SEC. 8
T. 9 S., R. 60 W.

3 Geo. D. Young
Leno Young
Simla, Colo.



PLAN
DATE
BY
D.F.E.
NOTED
NO. 1459

PROFILE
DATE
BY
D.F.E.
NOTED
NO. 1460

EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. X FACTOR
STA. YD. O. H.
YD. MI. O. H.

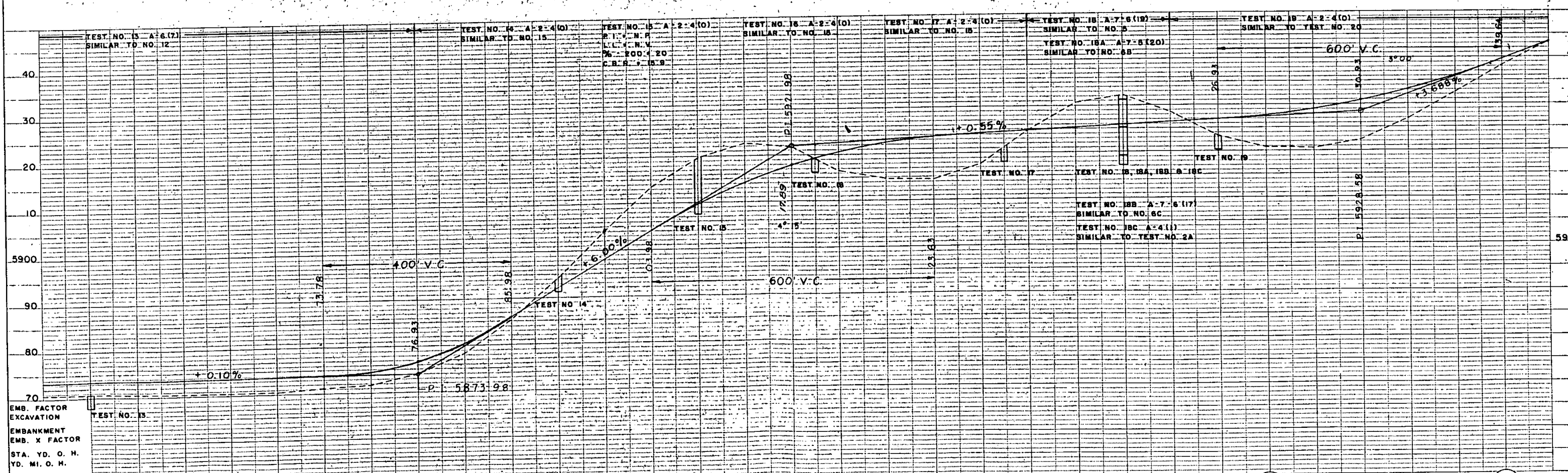
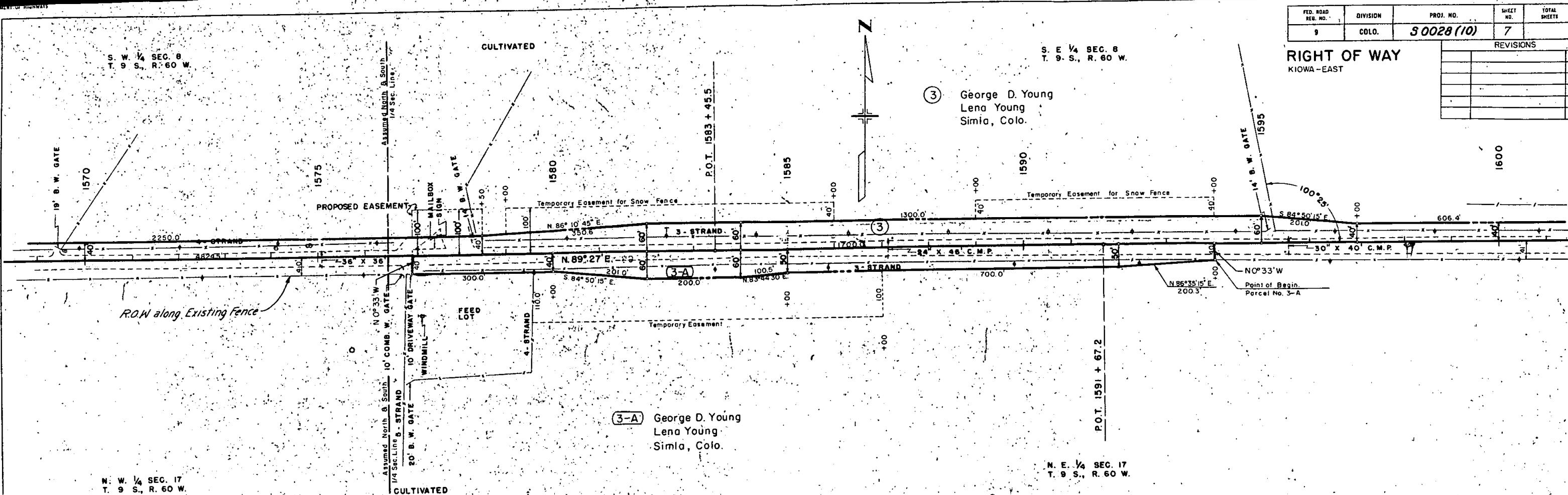
FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	50028 (10)	7	

RIGHT OF WAY
KIOWA - EAST

REVISIONS

PLAN	DATE
SURVEYED BY D.R.E.	
NOTED BY	
NO. 1452	

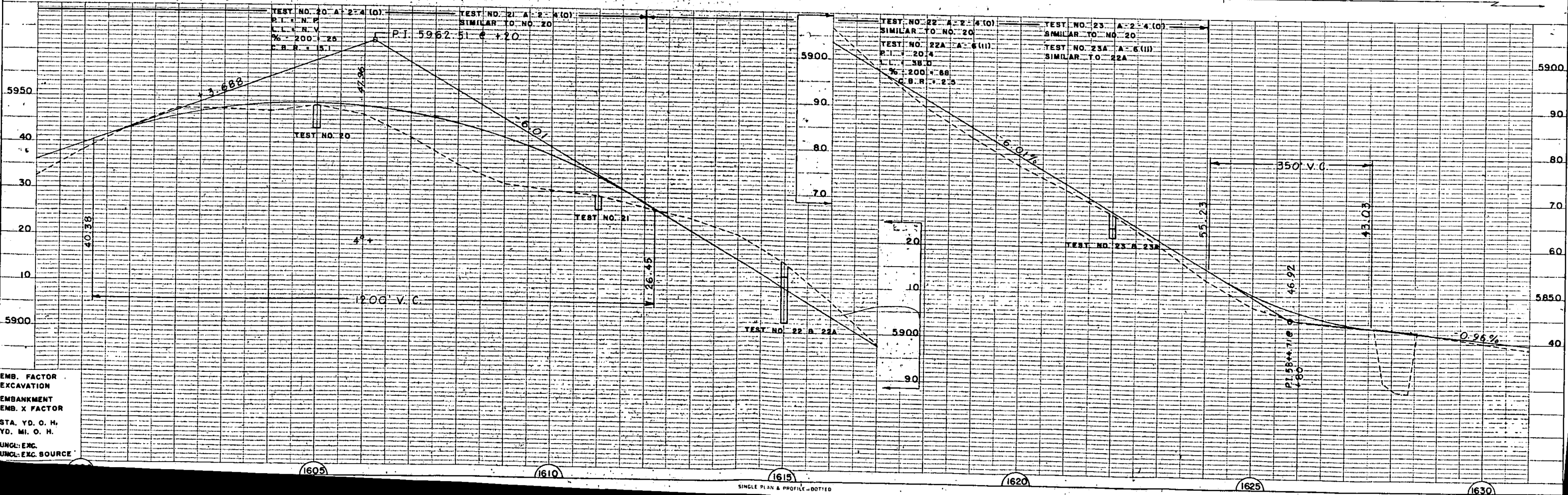
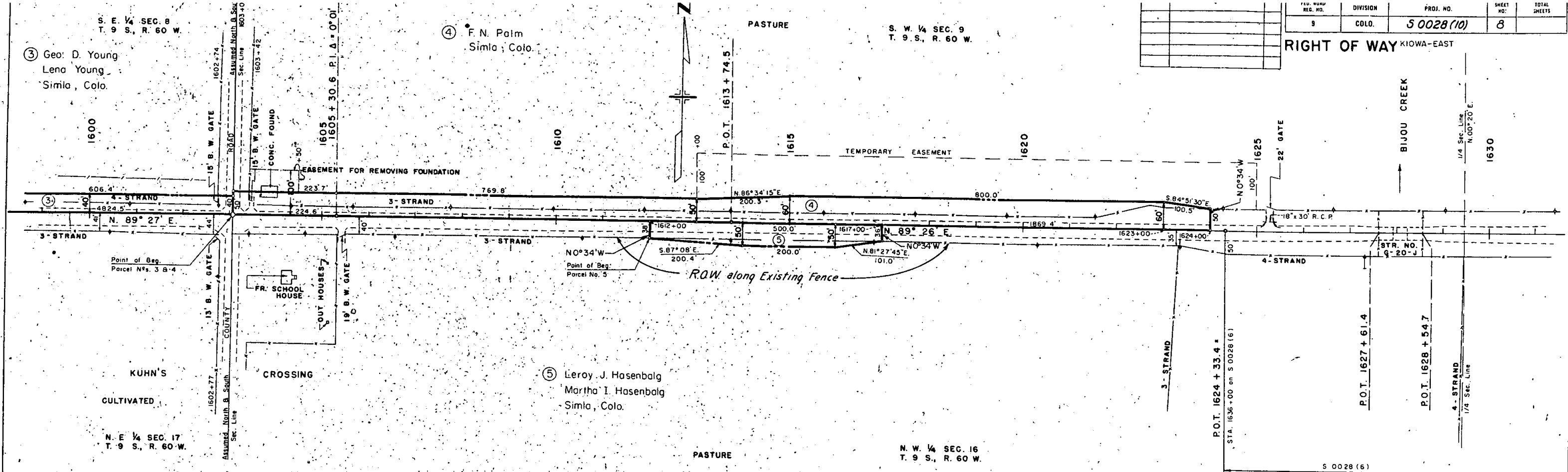
PROFILE	DATE
SURVEYED BY D.R.E.	
NOTED BY	
NO. 1452	



EMB. FACTOR EXCAVATION
EMBANKMENT EMB. X FACTOR
STA. YD. O. H.
YD. MI. O. H.

PLAN
SURVEYED BY DATE
NOTED BY DATE
NOTES: NO. 1452
RIGHT OF WAY CHECKED
NO. 1452

PROFILE
NOTED BY DATE
NOTES: NO. 1452
RIGHT OF WAY CHECKED
NO. 1452



EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. X FACTOR
STA. YD. O. H.
YD. MI. O. H.
UNCL. EXC.
UNCL. EXC. SOURCE

FED. HIGHWAY DIST. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	5 0028 (10)	8	

RIGHT OF WAY KIOWA-EAST

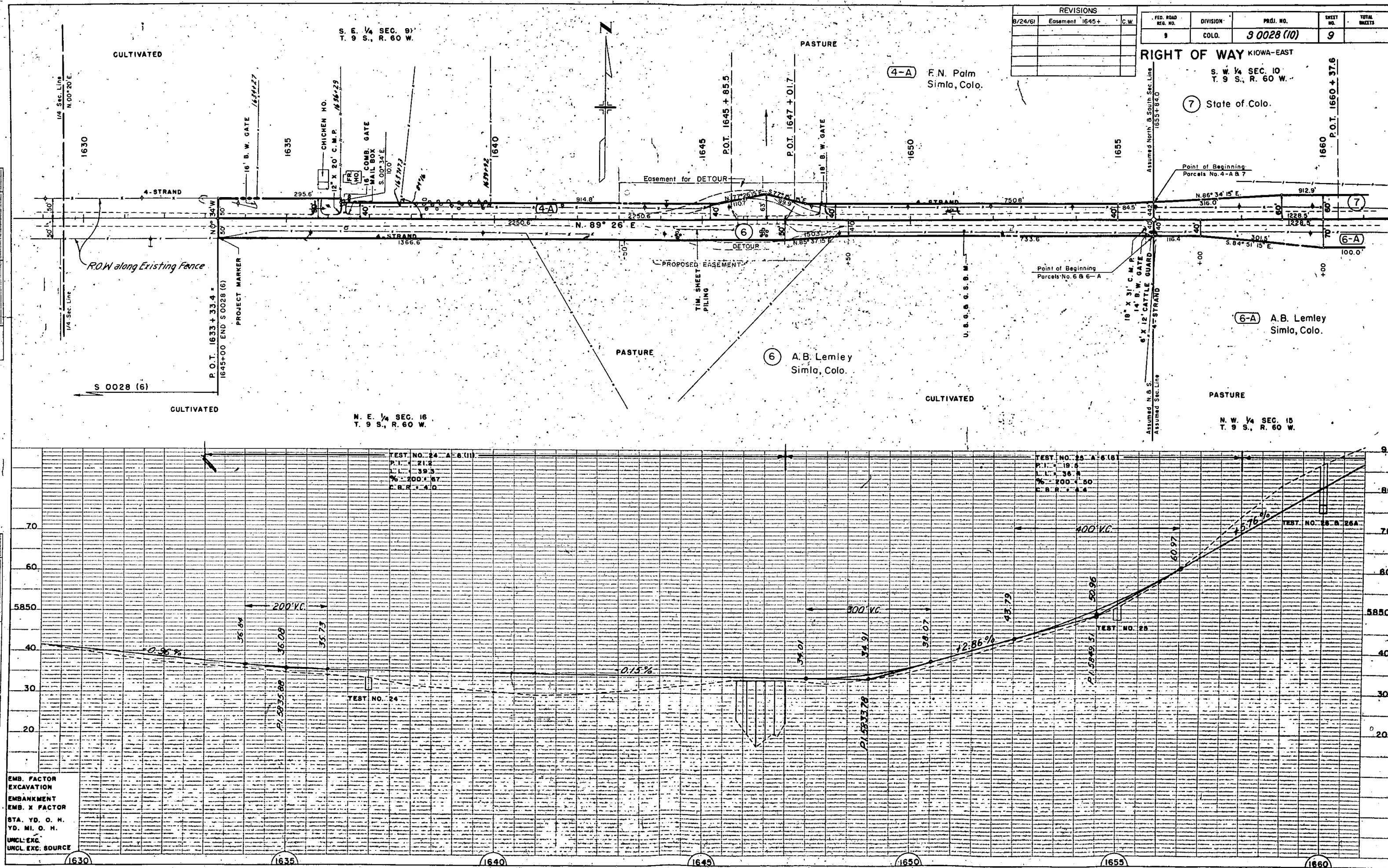
FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	3 0028 (10)	9	

S. W. 1/4 SEC. 10
T. 9 S., R. 60 W.

⑦ State of Colo.

6-A A.B. Lemley
Simla, Colo.

N. W. 1/4 SEC. 15
T. 9 S., R. 60 W.



S W 1/4 SEC 10
T 9 S R 60 W

(7) State of Colo

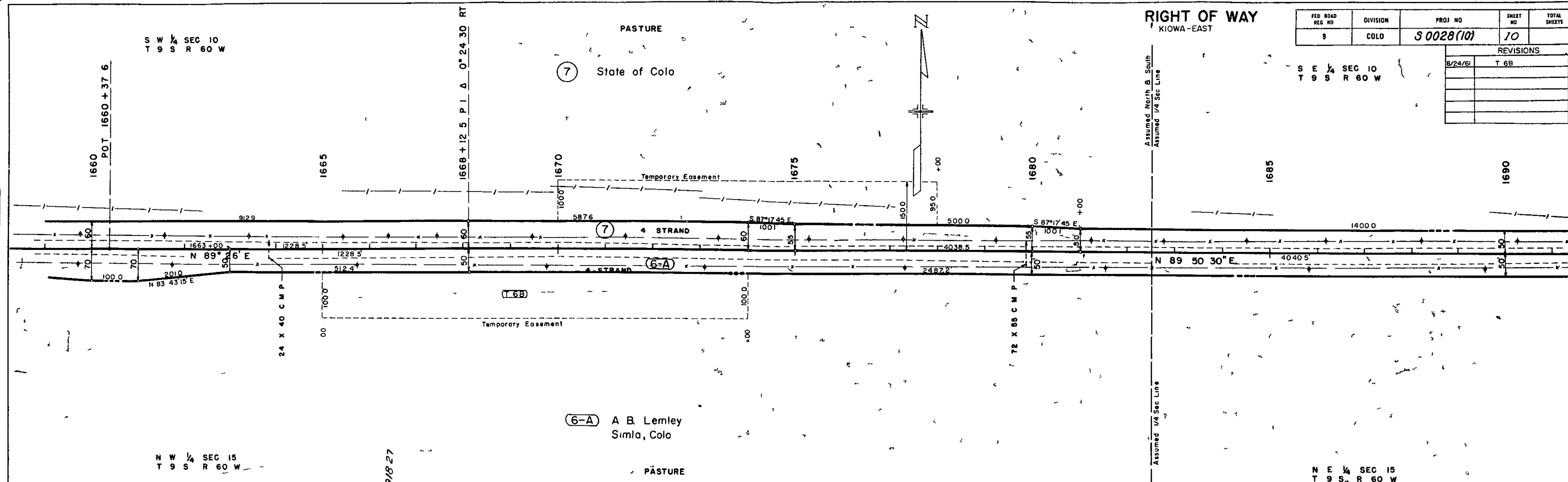
RIGHT OF WAY
KIOWA - EAST

FED. ROAD RES. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLD	3 0028(10)	10	

S E 1/4 SEC 10
T 9 S R 60 W

REVISIONS	
NO.	DESCRIPTION
1	T. 6B
2	
3	
4	
5	
6	
7	
8	
9	
10	

PLAN
DATE
BY
CHECKED
DATE
BY
NO. 1459

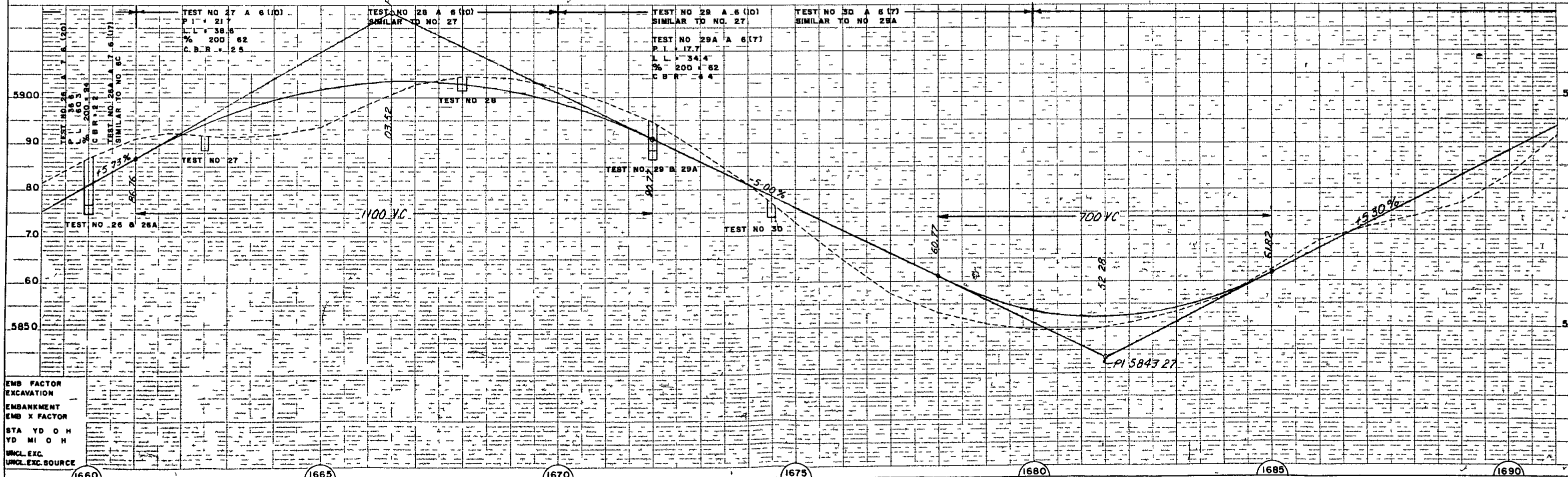


(6-A) A. B. Lemley
Simla, Colo

N W 1/4 SEC 15
T 9 S R 60 W

S E 1/4 SEC 15
T 9 S R 60 W

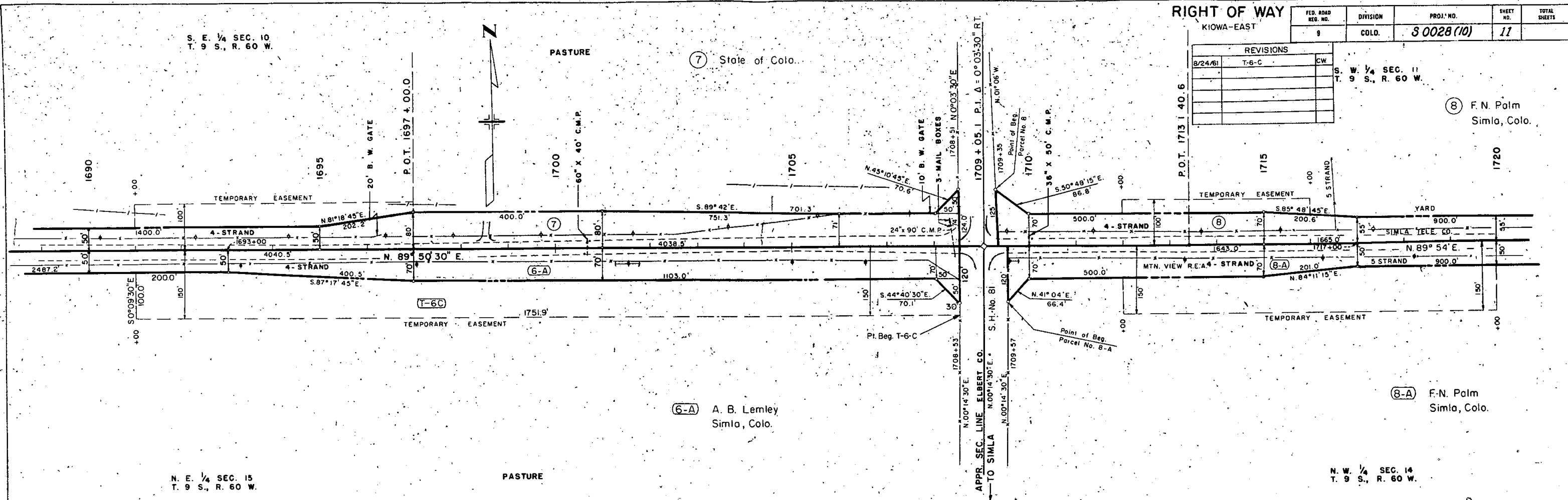
PROFILE
DATE
BY
CHECKED
DATE
BY
NO. 1460



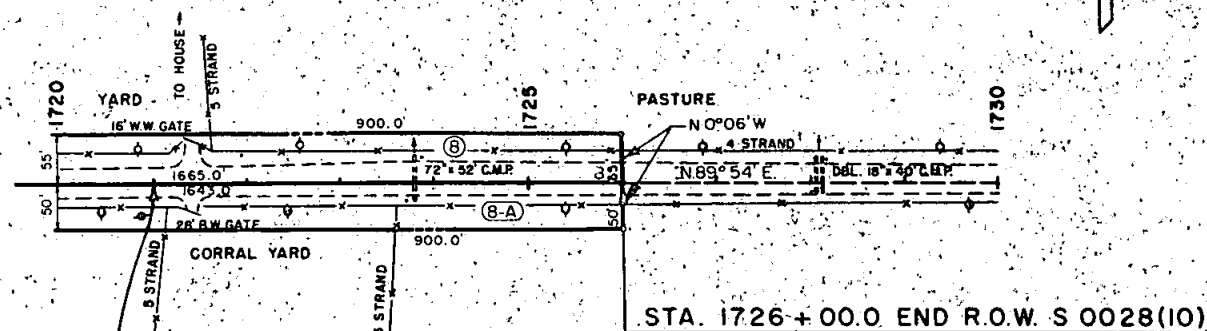
EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. X FACTOR
STA. YD. O. H.
YD. MI. O. H.
UNCL. EXC.
UNCL. EXC. SOURCE

DATE	BY	CHKD.	DATE
PLAN			
NOTE: SEE SHEET NO. 1462 FOR REVISIONS			

DATE	BY	CHKD.	DATE
PROFILE			
NOTE: SEE SHEET NO. 1462 FOR REVISIONS			



⑧ F. N. Palm
Simla, Colo.



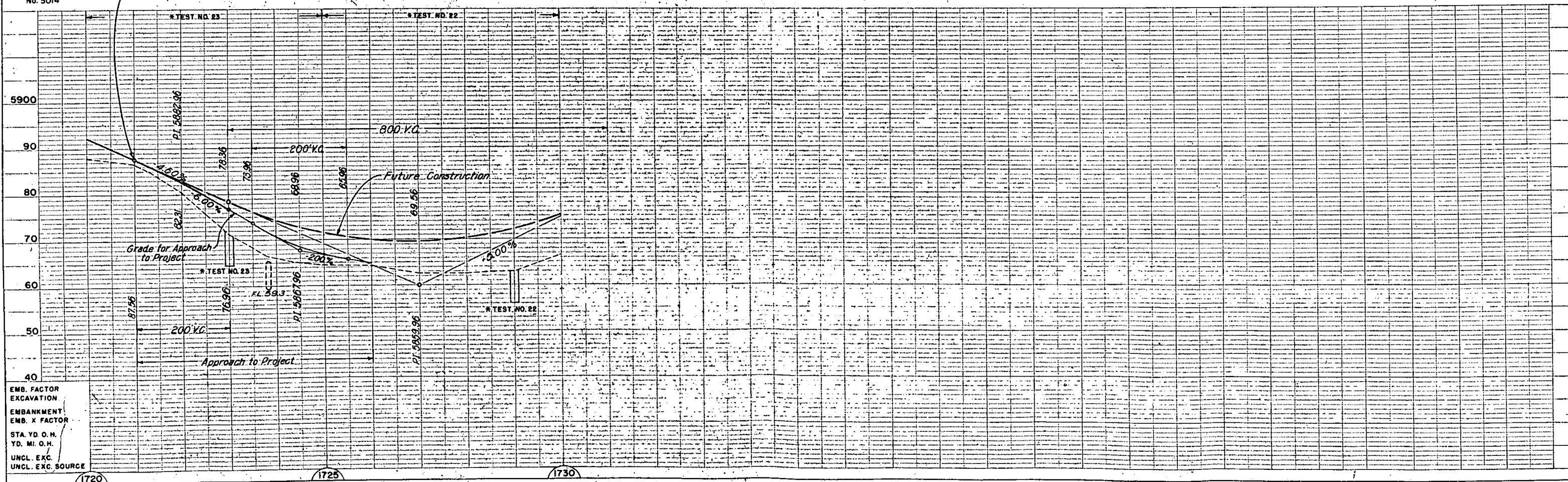
STA. 1726+00.0 END R.O.W. S 0028(10)

STA. 1721+00 ~ END S 0028 (10)
CONST.

(8-A) F. N. Palm
Simla, Colo.

* Tested Under Field Sample No. 5014

N.W. 1/4, SEC. 14
T. 9 S., R. 60 W.

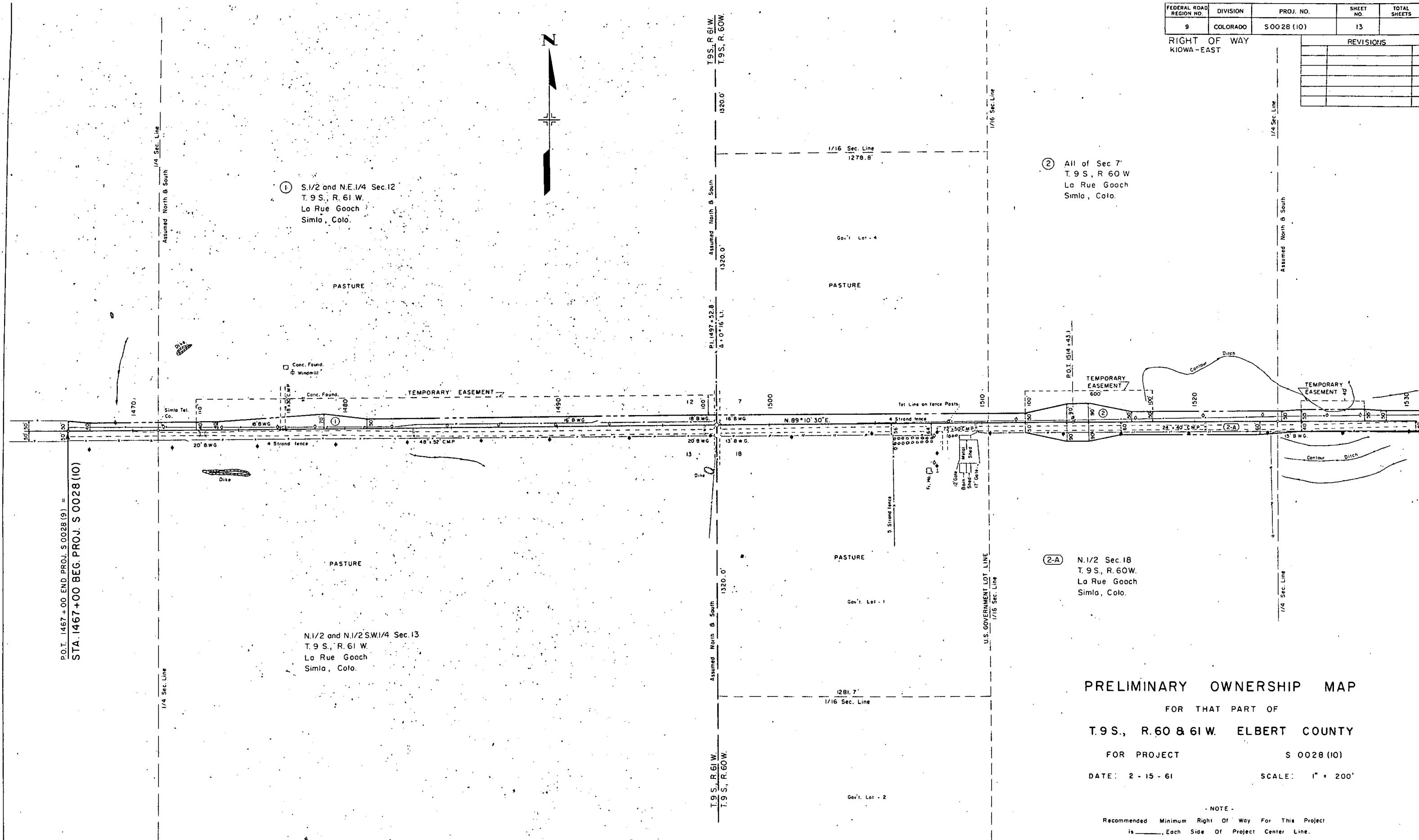


SINGLE P. 24 & PROFILE - DOTTED

[illegible]

RIGHT OF WAY KIOWA-EAST	REVISIONS					
*						

REVISIONS



FOR THAT PART OF

FOR PROJECT

S 0028 (10)

DATE: 2 - 15 - 61

SCALE: 1" = 200'

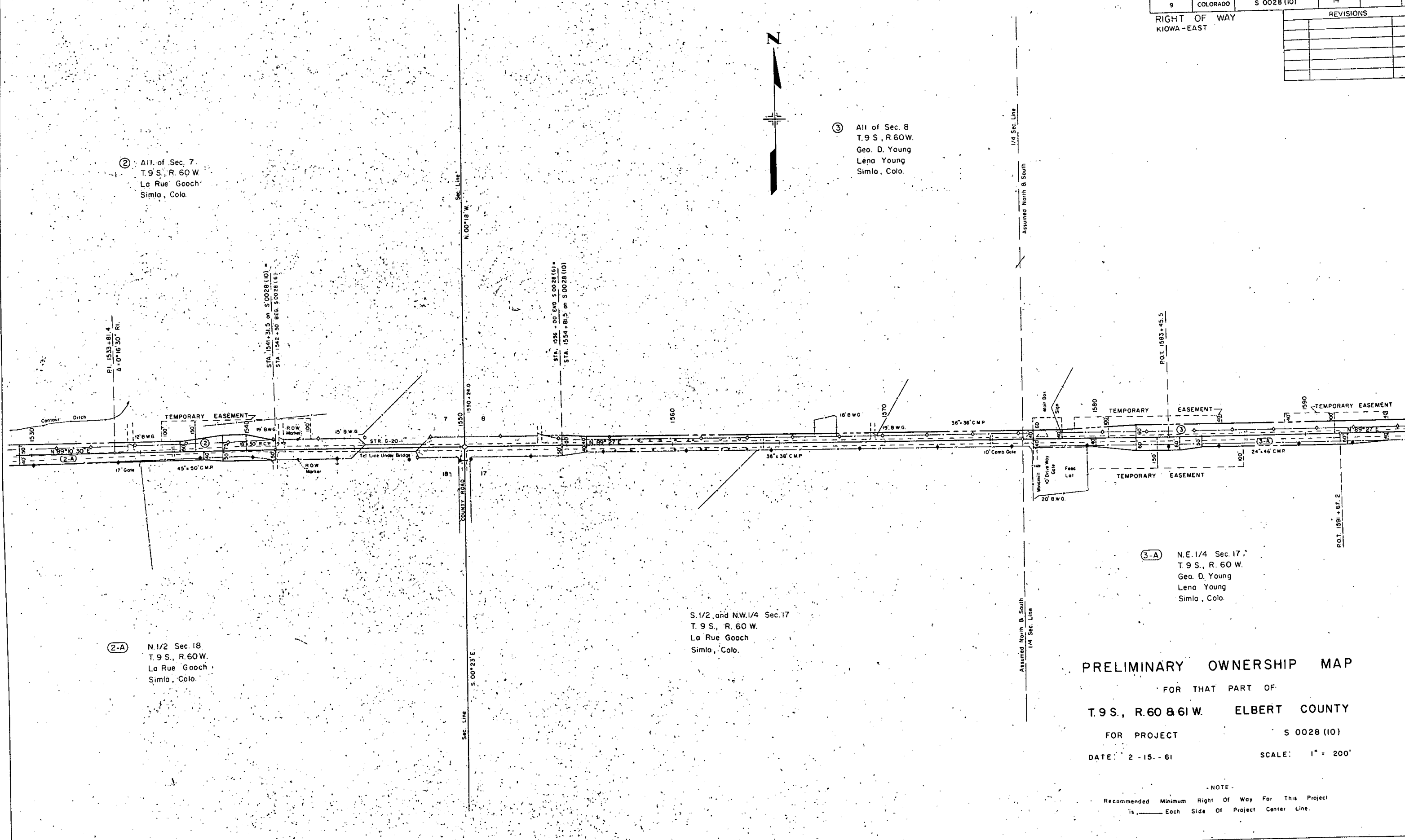
- NOTE -

Recommended Minimum Right Of Way For This Project
is _____, Each Side Of Project Center Line.

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	S 0028 (10)	14	

RIGHT OF WAY
KIOWA - EAST

REVISIONS	



② All of Sec. 7,
T.9 S., R. 60 W.
La Rue Gooch
Simla, Colo.

③ All of Sec. 8
T.9 S., R.60W.
Geo. D. Young
Lena Young
Simla, Colo.

(2-A) N.1/2 Sec.18
T.9 S., R.60W.
La Rue Gooch
Simla, Colo.

S.1/2 and N.W.1/4 Sec.17
T.9 S., R.60 W.
La Rue Gooch
Simla, Colo.

(3-A) N.E.1/4 Sec.17,
T.9 S., R.60 W.
Geo. D. Young
Lena Young
Simla, Colo.

PRELIMINARY OWNERSHIP MAP

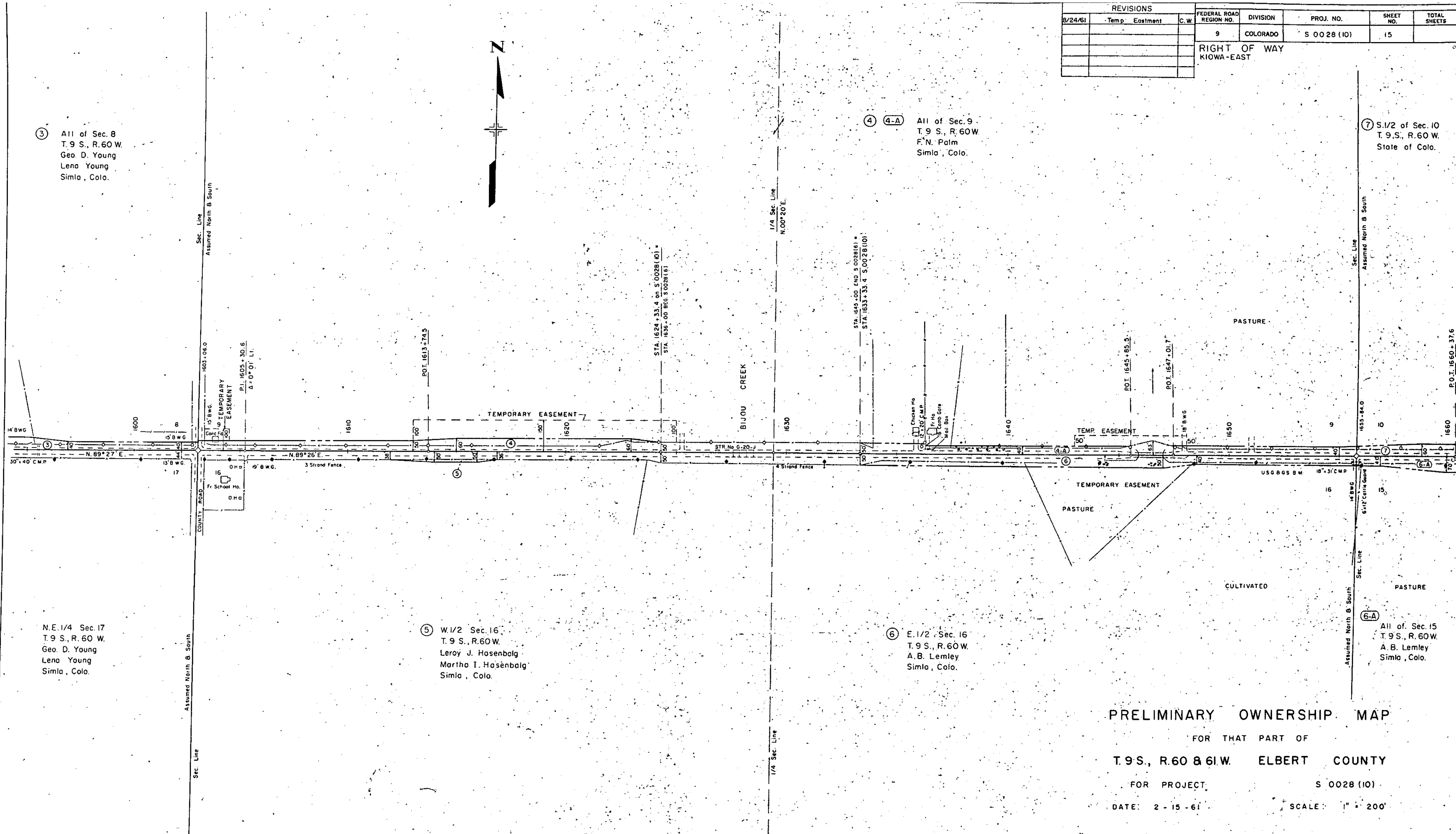
FOR THAT PART OF
T.9 S., R.60 & 61 W. ELBERT COUNTY

FOR PROJECT S 0028 (10)

DATE 2 - 15 - 61 SCALE: 1" = 200'

NOTE
Recommended Minimum Right Of Way For This Project
is _____ Each Side Of Project Center Line.

REVISIONS			FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
8/24/61	Temp. Easement	C.W.	9	COLORADO	S 0028 (10)	15	
RIGHT OF WAY KIOWA-EAST							



``` PRELIMINARY OWNERSHIP MAP ```

FOR THAT PART OF

T.9 S., R.60 & 61 W. ELBERT COUNTY

FOR PROJECT S 0028 (10)

DATE: 2-15-61

SCALE: 1" = 200'

NOTE:
Recommended Minimum Right Of Way For This Project
is _____ Each Side Of Project Center Line.

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	S 0028 (10)	16	

RIGHT OF WAY KIOWA-EAST		
REVISIONS		
8/24/61	T6B, T6C	C.W.

⑦ S. 1/2 Sec. 10
T. 9 S., R. 60 W.
State of Colo.

⑧ All of Sec. 11
T. 9 S., R. 60 W.
F. N. Palm
Simla, Colo.

⑥-A All of Sec. 15
T. 9 S., R. 60 W.
A. B. Lemley
Simla, Colo.

⑧-A All of Sec. 14
T. 9 S., R. 60 W.
F. N. Palm
Simla, Colo.

PRELIMINARY OWNERSHIP MAP
FOR THAT PART OF
T. 9 S., R. 60 & 61 W. ELBERT COUNTY
FOR PROJECT S 0028 (10)
DATE: 2 - 15 - 61 SCALE: 1" = 200'

- NOTE -
Recommended Minimum Right Of Way For This Project
is _____ Each Side Of Project Center Line.

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	S 0028(10)	2	

REV. 8-18-61 ~ J.M.K. ~ ADDED NOTE FOR TRAFFIC

TYPICAL CROSS SECTION OF IMPROVEMENT

NOTE:
See Standards for details of Cut
Slope Treatment Flaring and Widening.

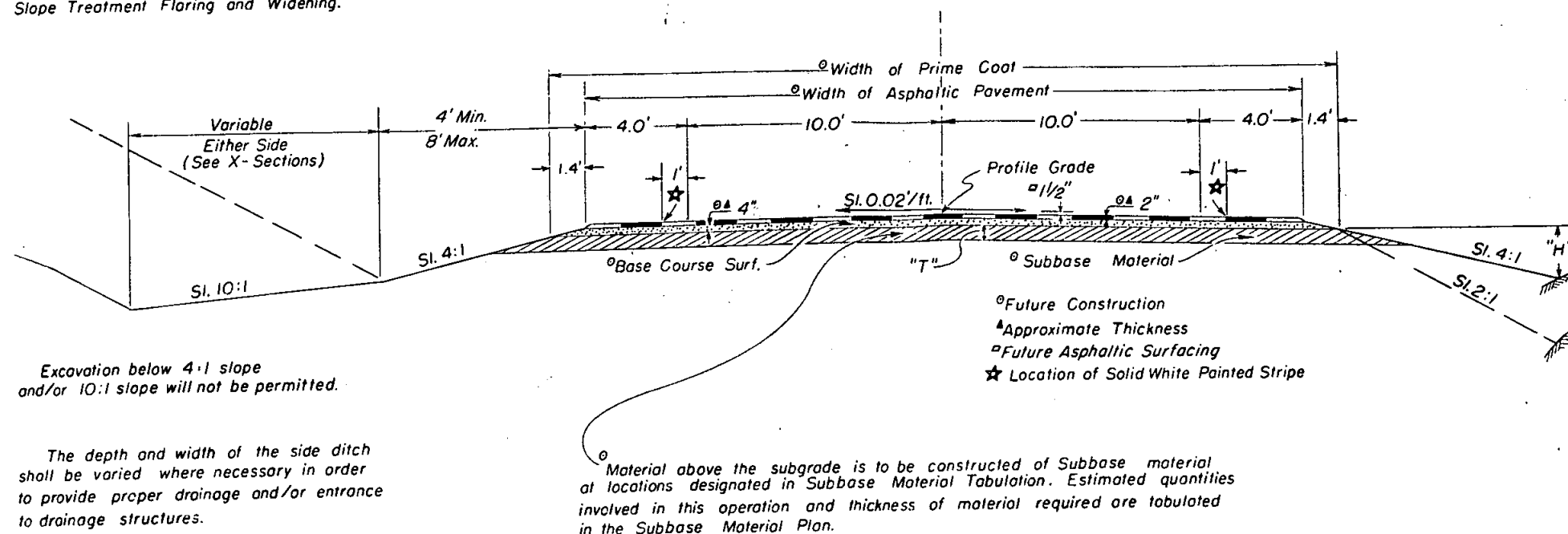
FILL SLOPES
ON CURVES
Slope 4:1 where "H" is 5' or less.
Slope 2:1 where "H" is over 5'.
ON TANGENTS
Slope 4:1 where "H" is 3' or less.
Slope 2:1 where "H" is over 3'.

TABULATION OF LENGTH AND DESIGN

SUBBASE THICKNESS (Future Construction)	
STATION	THICKNESS "T" INCHES
1467+00 to 1471+00	0
1471+00 to 1491+00	14
1491+00 to 1525+00	16
1525+00 to 1532+00	7
1532+00 to 1537+00	16
1537+00 to 1542+00	7
1542+00 to 1549+00	Variable
1549+00 to 1555+00	7
1555+00 to 1587+00	0
1587+00 to 1599+00	16
1599+00 to 1606+00	0
1606+00 to 1627+00	14
1627+00 to 1633+00	Variable
1633+00 to 1647+00	14
1647+00 to 1658+00	9
1658+00 to 1680+00	14
1680+00 to 1688+00	0
1688+00 to 1694+00	6
1694+00 to 1700+00	0
1700+00 to 1726+00	16

Excavation below 4:1 slope
and/or 10:1 slope will not be permitted.

The depth and width of the side ditch
shall be varied where necessary in order
to provide proper drainage and/or entrance
to drainage structures.



Material above the subgrade is to be constructed of Subbase material
at locations designated in Subbase Material Tabulation. Estimated quantities
involved in this operation and thickness of material required are tabulated
in the Subbase Material Plan.

α Based on Design Curve "D".

GENERAL NOTES

THIS PROJECT IS TO BE CONSTRUCTED IN CONFORMITY WITH THE STANDARD SPECIFICATIONS OF THE
COLORADO DEPARTMENT OF HIGHWAYS, ADOPTED JAN. 1, 1958.

ALL QUANTITIES ON PRELIMINARY PLANS ARE TO BE CONSIDERED APPROXIMATE ONLY.

ALL POLES ENCRDACHING ON CONSTRUCTION ARE TO BE MOVED BY THE OWNERS.

APPROXIMATE LOCATION AND QUANTITIES INVOLVED IN CONSTRUCTION OF INTERCEPTING DITCHES ARE
TABULATED IN SUMMARY OF EARTHWORK QUANTITIES TABULATION.

CLASS "AX" CONCRETE MAY BE USED ON THIS PROJECT.

"THE FORCE ACCOUNT ITEM, 'CLEARING OF BUILDING SITES, INCLUDING REMOVAL OF FOUNDATION
AND APPURTENANCES,' SHALL INCLUDE REMOVAL OF ALL FOUNDATIONS, WELLS, outhouses AND OTHER
APPURTENANCES NOT REMOVED BY THE OWNER, AND ANY NECESSARY BACKFILLING OF CELLARS, CESS
POOLS, WELLS, ETC., TO PROVIDE NEAT ROAD-SIDE CONDITIONS. IT IS ESTIMATED THAT THIS ITEM
APPLIES AT THE FOLLOWING LOCATIONS - STA. 1603+ LT."

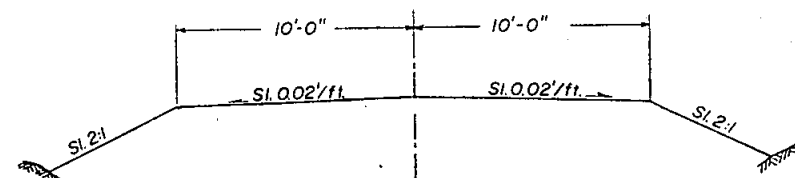
DURING CONSTRUCTION OF THIS PROJECT, TRAFFIC WILL USE THE
PRESENT TRAVELED ROADWAY EXCEPT WHERE DETOUR IS SHOWN
ON PLANS.

R.O.W. MARKERS

STATION	SIDE	NO.
1481+00	Lt.	1
1500+00	Lt.	1
1515+00	Lt. & Rt.	2
1566+00	Lt.	1
1584+00	Lt. & Rt.	2
1605+30.6	Lt.	1
1650+00	Lt. & Rt.	2
1668+12.5	Lt. & Rt.	2
1687+00	Lt. & Rt.	2
1704+50	Lt. & Rt.	2
1721+00	Lt. & Rt.	2
TOTAL		18

DETOUR SECTION

STA. 1643+ to 1648+



REMOVING GUARD POSTS

STATION	SIDE	NO.
1463+90	Lt. & Rt.	2
1473+30	Lt. & Rt.	2
1483+22	Lt. & Rt.	2
1497+10	Lt. & Rt.	2
1509+70	Lt. & Rt.	2
1536+35	Lt. & Rt.	2
1564+30	Lt. & Rt.	2
1575+09	Lt. & Rt.	2
1587+13	Lt. & Rt.	2
1595+26	Lt. & Rt.	2
1628+	Lt. & Rt.	4
1663+85	Lt. & Rt.	2
1679+88	Lt. & Rt.	2
1700+68	Lt. & Rt.	2
1710+00	Lt. & Rt.	2
1723+	Lt. & Rt.	2
TOTAL		34

TIMBER GUARD POSTS

STATION	SIDE	SPACING	NO.
1467+00 to 1475+00	Lt. & Rt.	100'	18
1463+90	Lt. & Rt.	Culvert	2
1497+10	Lt. & Rt.	Culvert	2
1532+00	Lt. & Rt.	Culvert	2
1555+50	Lt. & Rt.	Culvert	2
1564+30	Lt. & Rt.	Culvert	2
1575+09	Lt. & Rt.	Culvert	2
1620+00	Lt. & Rt.	Culvert	2
1626+97.4	Lt. & Rt.	Bridge	2
1629+18.7	Lt. & Rt.	Bridge	2
1645+42.0	Lt. & Rt.	Bridge	2
1647+39.0	Lt. & Rt.	Bridge	2
1708+40	Lt. & Rt.	Culvert	2
TOTAL			42

STATION	ROADWAY LIN. FT.	MAJOR STRUCTURES LIN. FT.	LCADING	NO WORK SECTION LIN. FT.
1467+00 ~ Begin S 0028(10) = 1467+00 ~ End S 0028(9)	7,431.5			
1541+31.5 = 1542+50 ~ Begin S 0028(6)	68.5			
1542+00 ~ Begin No Work Section				334.6
1545+34.6 = 1546+53.1 on S 0028(6) Bridge ~ East Bijou Creek			H20-S16-44	271.8
1548+06.4 = 1549+24.9 on S 0028(6)				93.6
1549+00 ~ End No Work Section	581.5			
1554+81.5 = 1556+00 ~ Begin No Work Section on S 0028(6)	6951.9			
1624+33.4 = 1636+00 ~ End No Work Section on S 0028(6)	266.6			
1627+00 ~ Begin No Work Section				61.4
1627+61.4 = 1639+28.0 on S 0028(6) Bridge ~ Branch of East Bijou Creek			H20-S16-44	93.3
1628+54.7 = 1640+21.3 on S 0028(6)				445.3
1633+00 ~ End No Work Section	33.4			
1633+33.4 = 1645+00 ~ End S 0028(6)	1272.6			
1646+06.0 Bridge ~ Tributary of East Bijou Creek 1646+75.7	7,424.3		69.7 H20-S16-44	
1721+00 ~ End S 0028(10)				
TOTALS	24,030.3	69.7		1,300.0
SUMMARY				
				LIN. FT. MILES
Roadway				24,030.3 4.551
Major Structure				69.7 0.013
Total Net Length				24,100.0 4.564
No Work Section				1,300.0 0.247
Total Gross Length				25,400.0 4.811
DESIGN DATA				
Maximum Degree of Curve				No Curves
Maximum Grade				6.01 %
Minimum N.P.S.D. ~ Horizontal				> 1300'
Minimum N.P.S.D. ~ Vertical				385'
Maximum Design Speed				50 M.P.H.