

TITLE SHEET

CONVENTIONAL SIGNS

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

COLORADO DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. S 0028 (13) STATE HIGHWAY NO. 86 ELBERT COUNTY RIGHT OF WAY

Information Obtained From Available County Records

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. = 2.384 MILES

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	S 0028 (13)	1	

RIGHT OF WAY
Kiowa - East

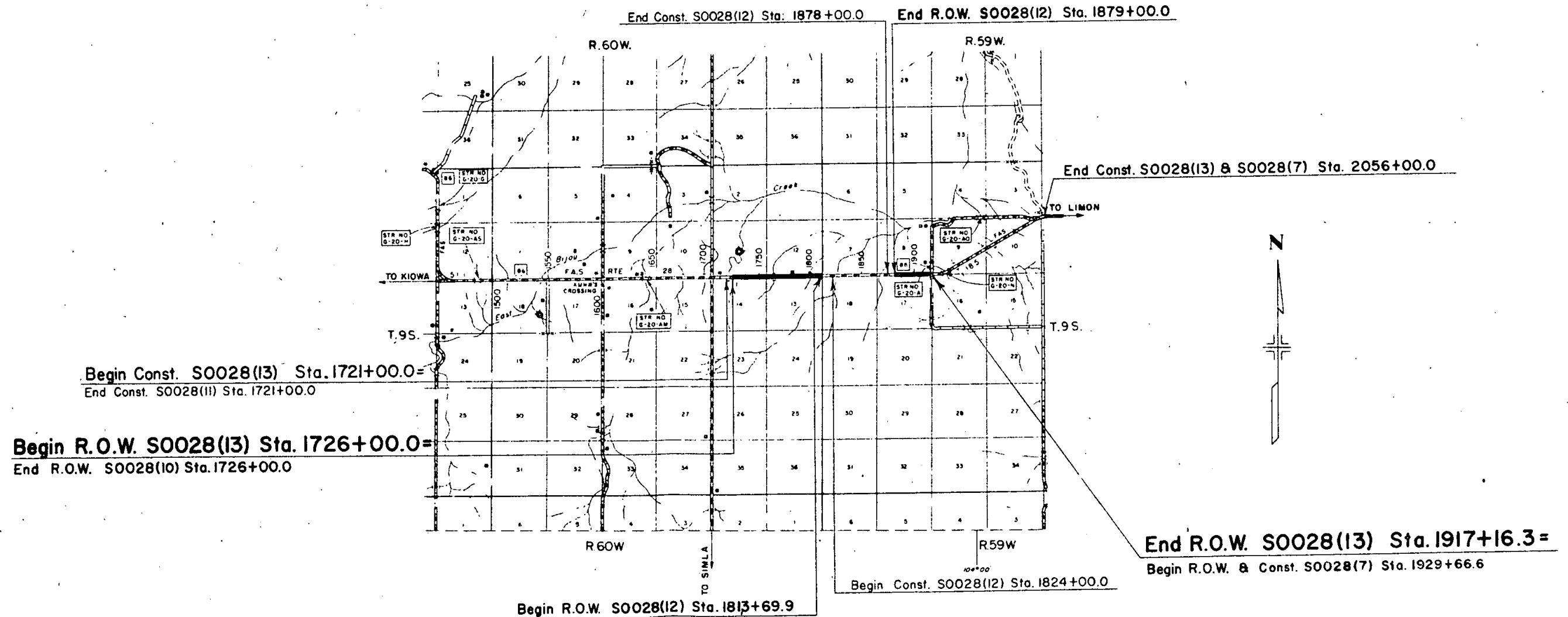
REVISIONS

NO.	DESCRIPTION

INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE PAGE & SKETCH MAP
2	TABULATION OF PROPERTIES
3-10	PLAN & PROFILE SHEETS

Note: Plans and descriptions on this project
calculated and checked by field forces.



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

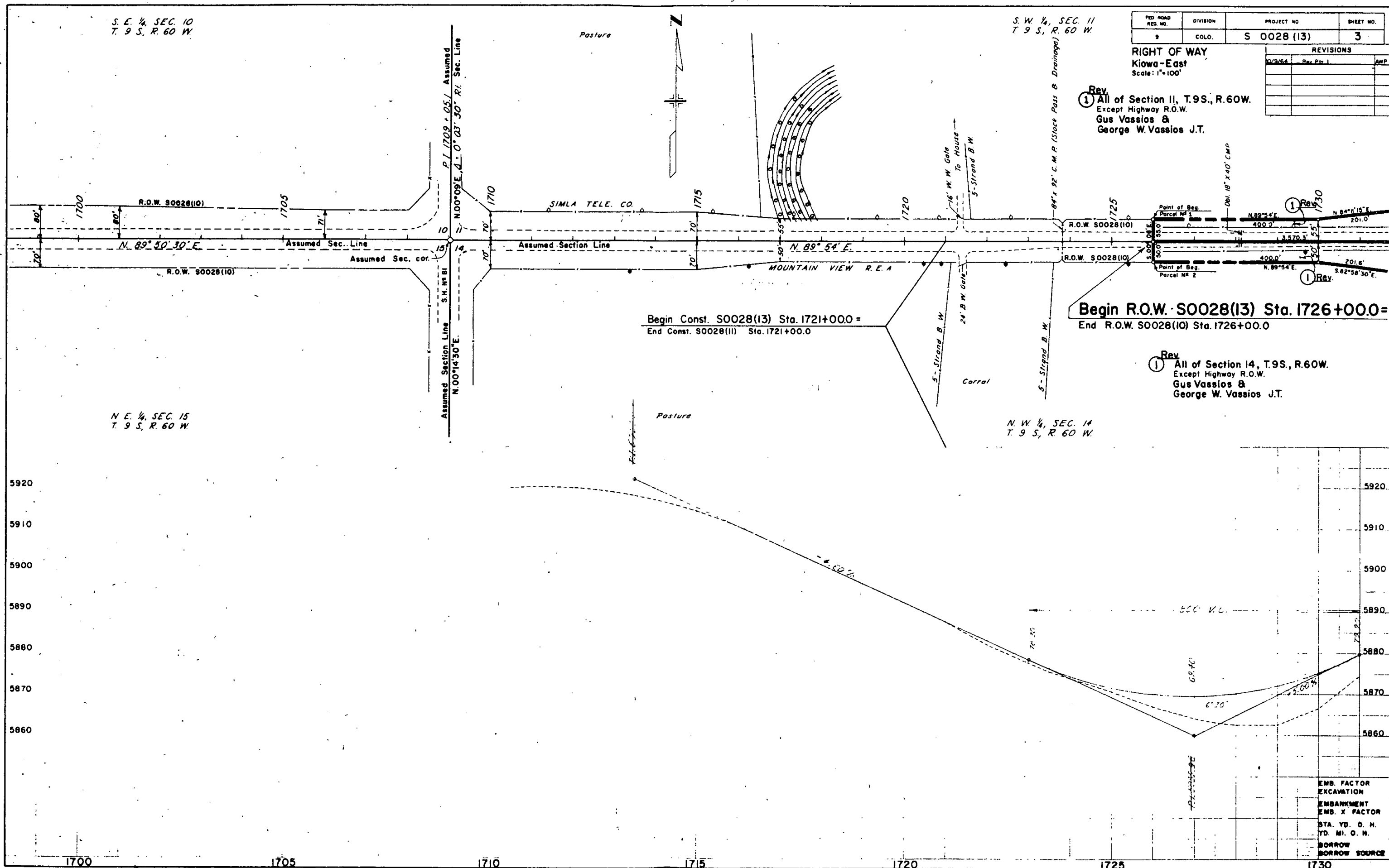
S. W. 1/4, SEC. 11
T. 9 S., R. 60 W.

FED. ROAD RES. NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLD.	S 0028 (13)	3

RIGHT OF WAY
Kiowa-East
Scale: 1"=100'

REVISIONS		
02/25/64	Rev. Per. I	AWP

Rev.
1 All of Section 11, T.9S., R.60W.
Except Highway R.O.W.
Gus Vassios &
George W. Vassios J.T.



Begin Const. S0028(13) Sta. 1721+00.0 =
End Const. S0028(11) Sta. 1721+00.0

Begin R.O.W. S0028(13) Sta. 1726+00.0 =
End R.O.W. S0028(10) Sta. 1726+00.0

Rev.
1 All of Section 14, T.9S., R.60W.
Except Highway R.O.W.
Gus Vassios &
George W. Vassios J.T.

EMB. FACTOR
EXCAVATION
EMB. X FACTOR
STA. YD. O. N.
YD. MI. O. N.
BORROW
BORROW SOURCE

S. W. 1/4, SEC. 11
T. 9 S., R. 60 W.

S. E. 1/4, SEC. 11
T. 9 S., R. 60 W.

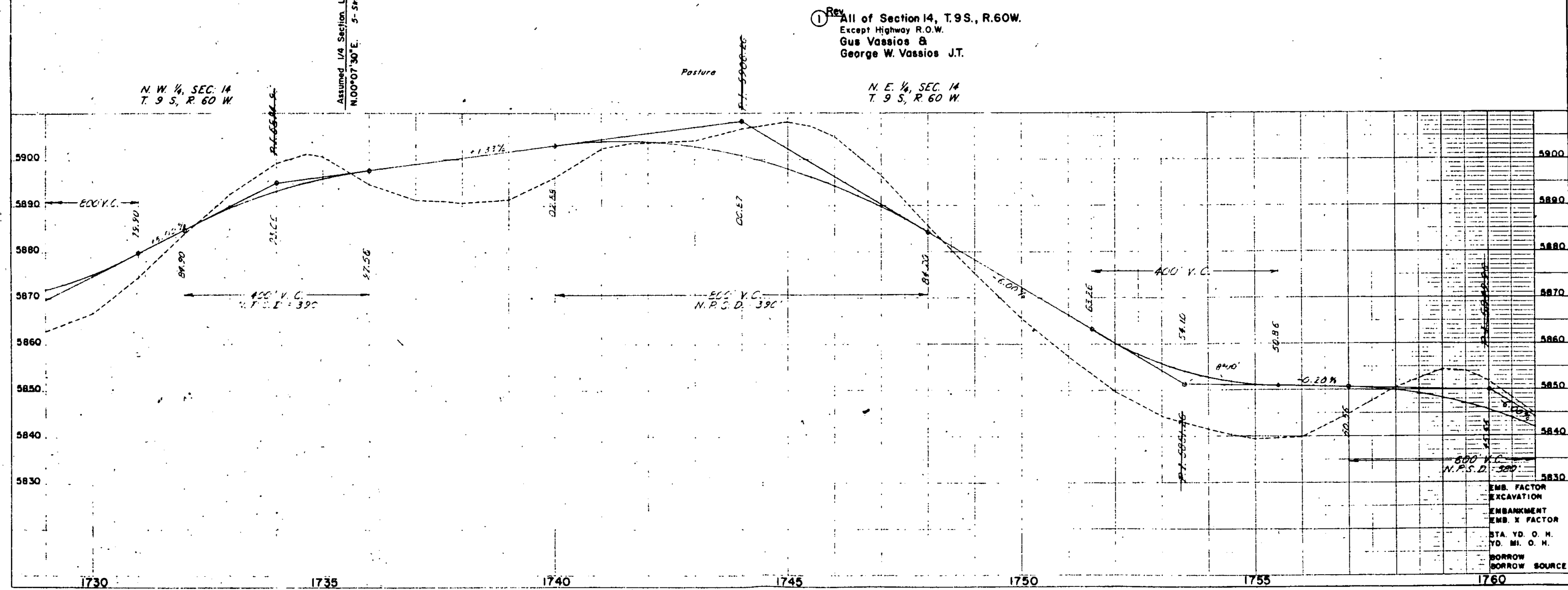
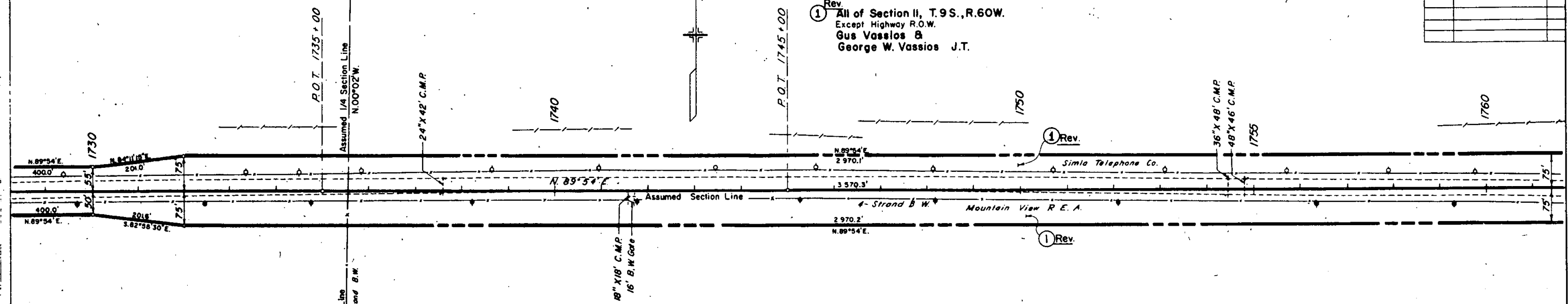
110-1040 REG. NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLO.	S 0028 (13)	4

RIGHT OF WAY
Klona - East
Scale: 1" = 100'

REVISIONS		
NO.	Rev.	Par.
1		
2		
3		
4		

1 Rev.
All of Section 11, T.9S., R.60W.
Except Highway R.O.W.
Gus Vassios &
George W. Vassios J.T.

1 Rev.
All of Section 14, T.9S., R.60W.
Except Highway R.O.W.
Gus Vassios &
George W. Vassios J.T.



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

S.E. 1/4, SEC. 11
T. 9 S., R. 60 W.

S.W. 1/4, SEC. 12
T. 9 S., R. 60 W.

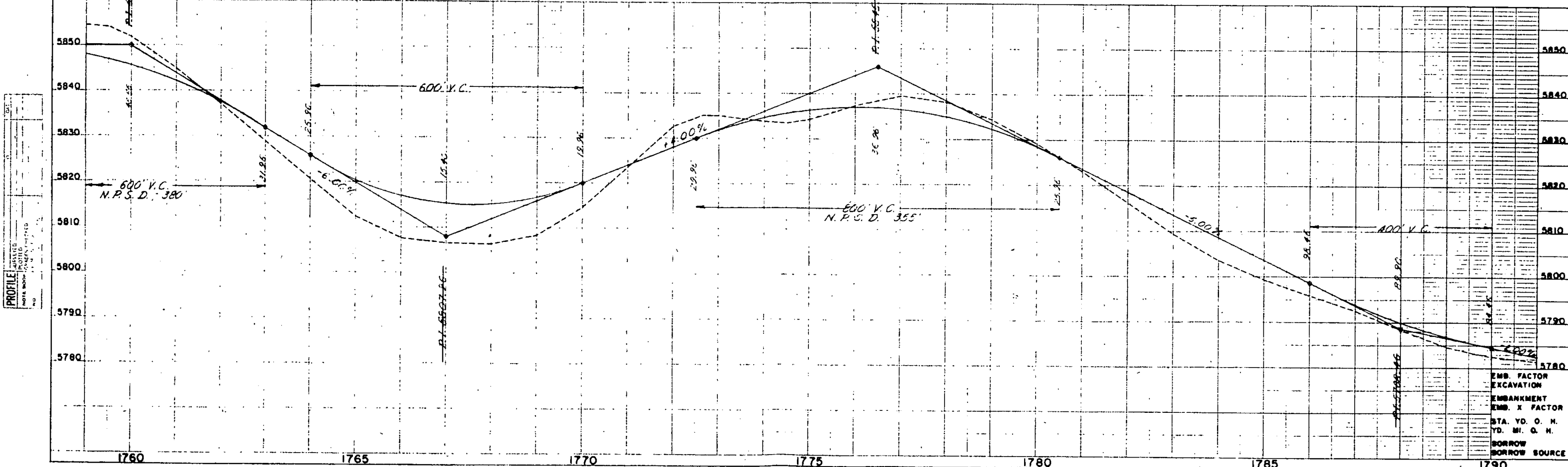
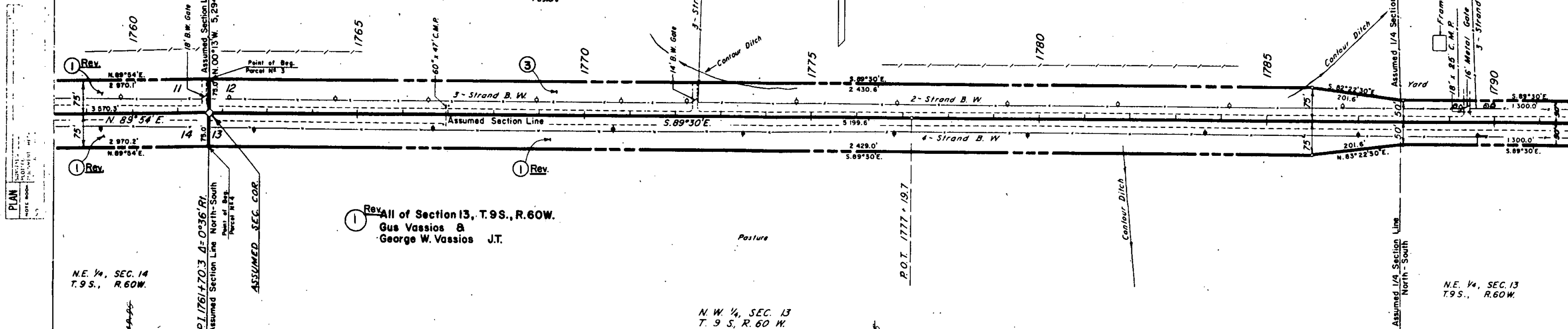
③ S. 1/2 of the S. 1/2, Section 12, T. 9 S., R. 60 W.
Hazel M. Hasenbalg

REVISIONS		
10/9/64	Revised Per I	AWP

FILE NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLO.	S 0028 (13)	5

RIGHT OF WAY
Kiowa-East
Scale: 1"=100'

S.E. 1/4, SEC. 12
T. 9 S., R. 60 W.



K-E

S. E. 1/4, SEC. 12
T. 9 S., R. 60 W.

③ S. 1/2 of the S. 1/2, Section 12, T. 9S., R. 60W.
Hazel M. Hasenbalg

D = 1°45' L1
D = 0°30'
T = 175.0'
L = 350.0'
R = 11,460.0'

FILED ROAD FILE NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLO.	S 0028 (13)	6

RIGHT OF WAY
Kiowa-East
Scale: 1"=100'

REVISIONS		
10-2-54	Rev. Par. 1	AWP

S.W. 1/4, SEC. 7
T. 9S., R. 59W.

Pasture

N. 1/2 & S.W. 1/4, Section 7, T. 9S., R. 59W.
Except Highway R.O.W.
Richard D. Young &
Marjorie R. Young J.T.

R.O.W. S0028(82)

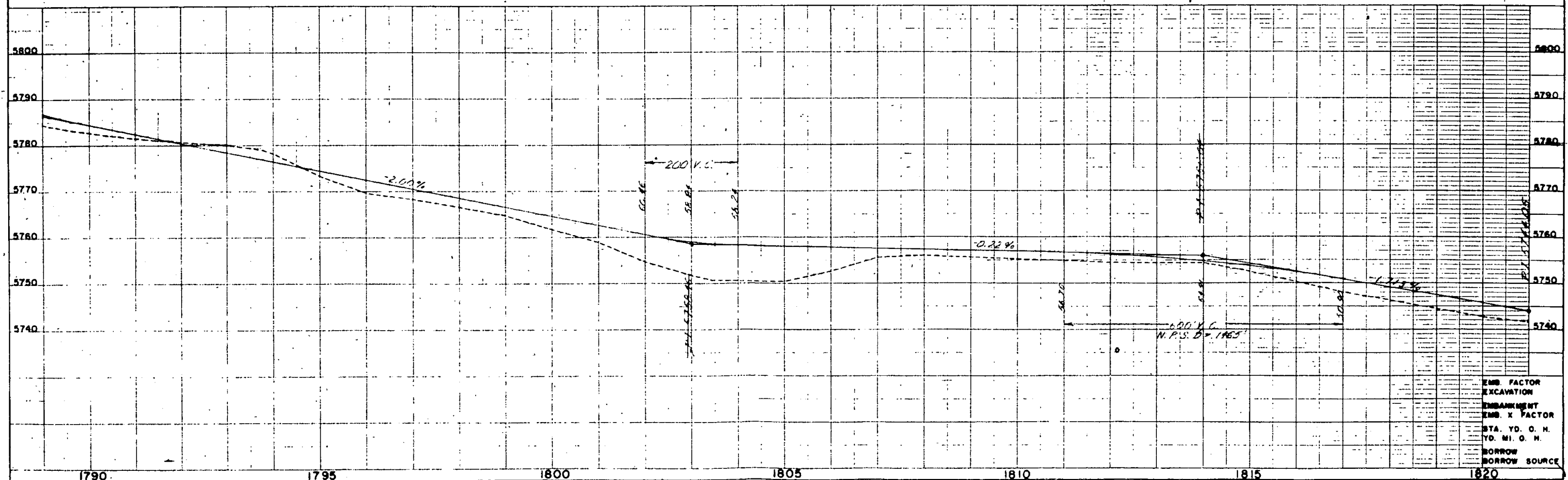
R.O.W. S0028(12)

All of Section 18, T. 9S., R. 59W.
Except Highway R.O.W.
Gus Vassios &
George W. Vassios J.T.

N.W. 1/4, SEC. 18
T. 9 S., R. 59 W.

N. E. 1/4, SEC. 13
T. 9 S., R. 60 W.

Rev.
① All of Section 13, T. 9S., R. 60W.
Gus Vassios &
George W. Vassios J.T.



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

S.W. 1/4 SEC. 7
T. 9 S., R. 59 W.

S.E. 1/4, SEC. 7
T. 9 S., R. 59 W.

RIGHT OF WAY
Kiowa-East
Scale: 1" = 100'

S 0028 (13)

7

REVISIONS

All of the N. 1/2 & S.W. 1/4,
Section 7, T. 9 S., R. 59 W.
Except Highway R.O.W.
Richard D. Young &
Marjorie R. Young J.T.

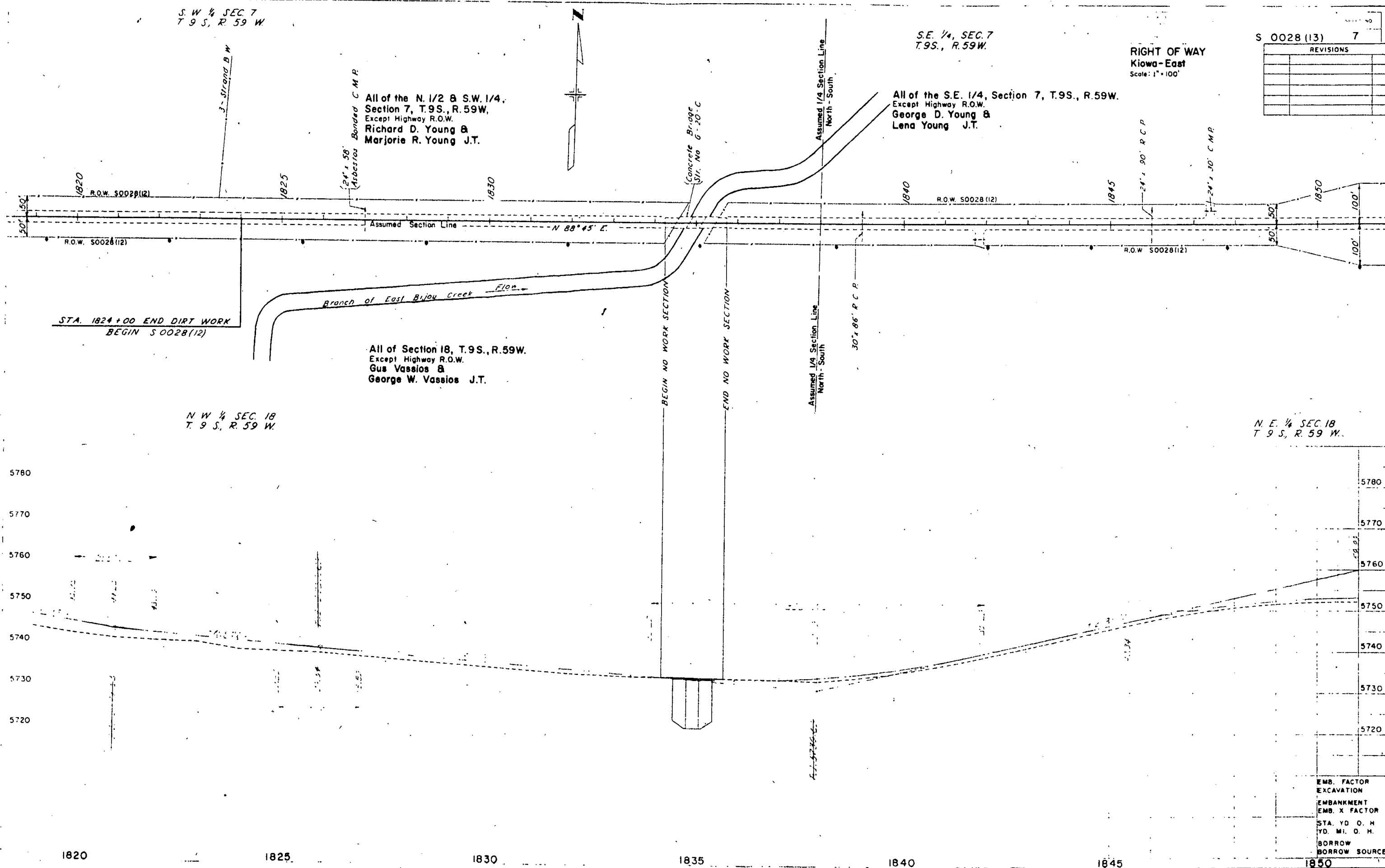
All of the S.E. 1/4, Section 7, T. 9 S., R. 59 W.
Except Highway R.O.W.
George D. Young &
Lena Young J.T.

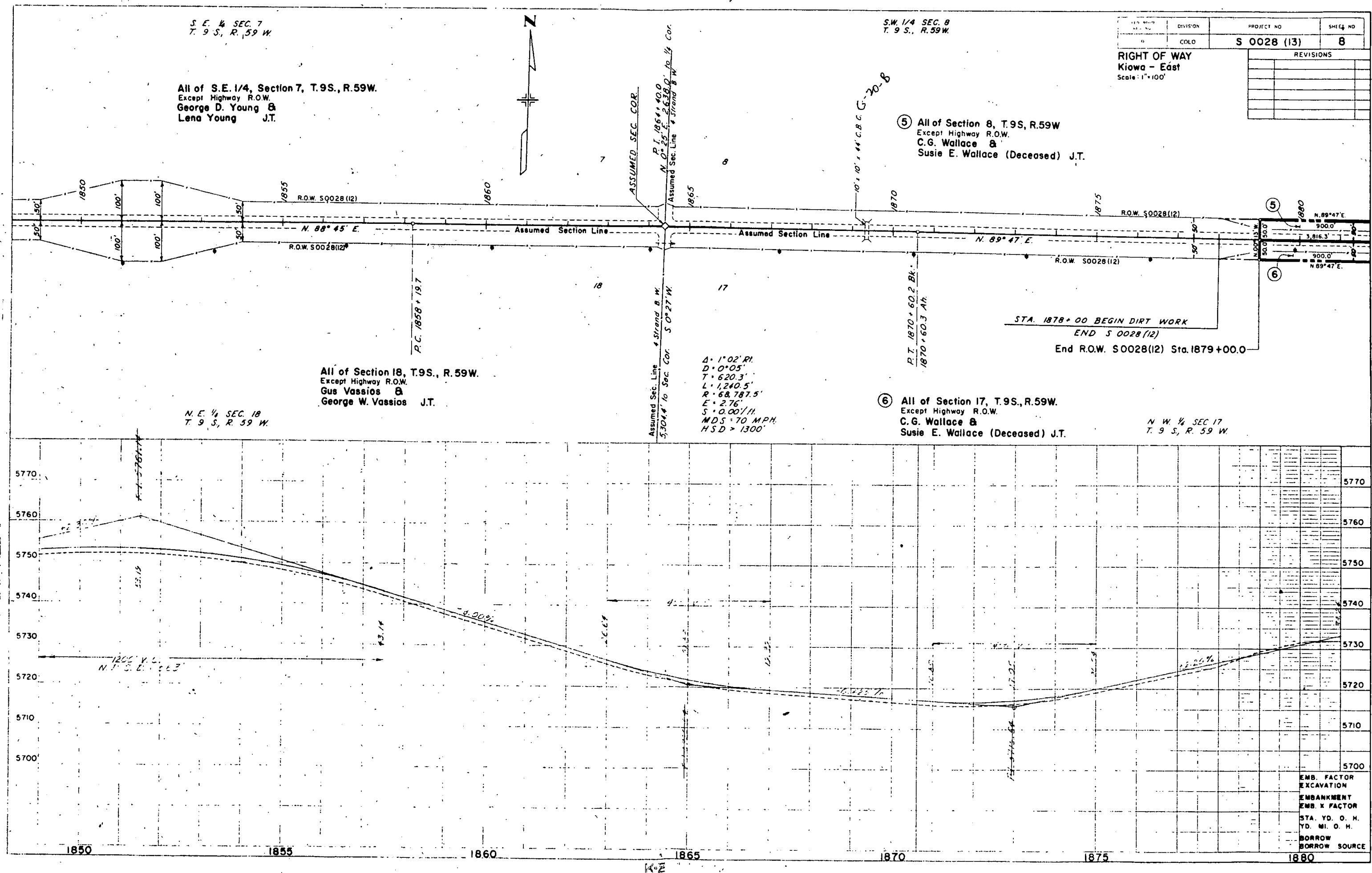
All of Section 18, T. 9 S., R. 59 W.
Except Highway R.O.W.
Gus Vassios &
George W. Vassios J.T.

N.E. 1/4 SEC. 18
T. 9 S., R. 59 W.

N.W. 1/4 SEC. 18
T. 9 S., R. 59 W.

EMB. FACTOR
EXCAVATION
EMB. X FACTOR
STA. YD. O. H.
YD. MI. O. H.
BORROW
BORROW SOURCE





S.W. 1/4 SEC. 8
T. 9 S., R. 59 W.

S.E. 1/4 SEC. 8
T. 9 S., R. 59 W.

S 0028 (13) 9

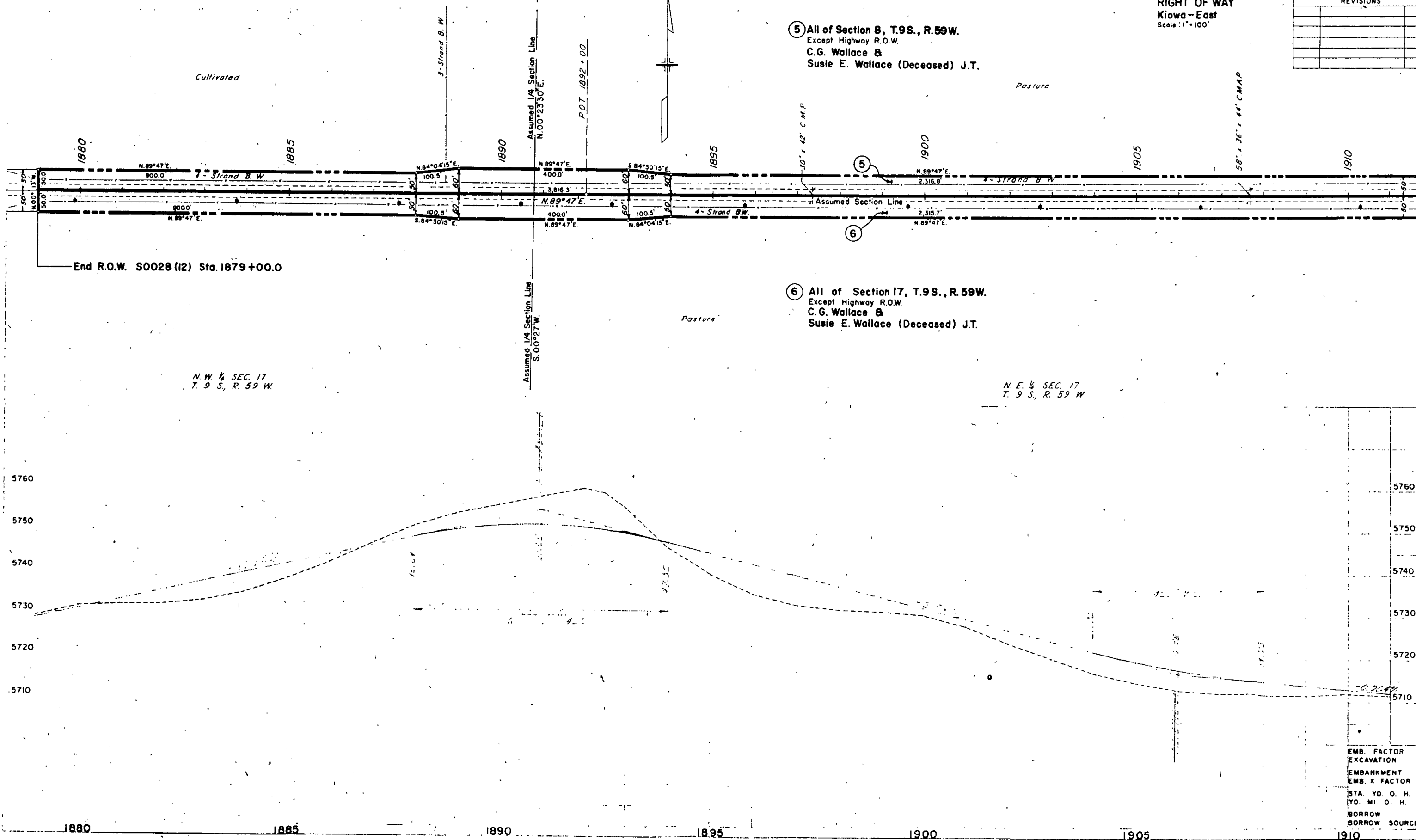
RIGHT OF WAY
Kiowa-East
Scale: 1"=100'

REVISIONS	

5 All of Section 8, T.9S., R.59W.
Except Highway R.O.W.
C.G. Wallace &
Susie E. Wallace (Deceased) J.T.

6 All of Section 17, T.9S., R.59W.
Except Highway R.O.W.
C.G. Wallace &
Susie E. Wallace (Deceased) J.T.

N.E. 1/4 SEC. 17
T. 9 S., R. 59 W.



S.E. 1/4 SEC. 8
T. 9 S., R. 59 W.
⑤ All of Section 8, T.9S., R.59W.
Except Highway R.O.W.
C.G. Wallace &
Susie E. Wallace (Deceased) J.T.

⑥ All of Section 17, T.9S., R.59W.
Except Highway R.O.W.
C.G. Wallace &
Susie E. Wallace (Deceased) J.T.
N.E. 1/4 SEC. 17
T. 9 S., R. 59 W.

S.W. 1/4 SEC. 9
T. 9 S., R. 59 W.

PROJECT NO.	S 0028 (13)	SHEET NO.	10
REVISIONS			

RIGHT OF WAY
Kiowa - East
Scale: 1"=100'

S0028 (7)
Δ=29°26' L.I.
D=2°00'
T=752.5'
L=1,471.7'
R=2,865.0'

Channel Curve
Δ=25°00' L.I.
D=12°00'
T=105.9'
L=208.3'
R=477.5'

End R.O.W. S0028(13) Sta. 1917+16.3 N.89°47'E.=
Begin R.O.W. & Const. S0028 (7) Sta. 1929+66.6 S.89°44'E.

N.W. 1/4 SEC. 16
T. 9 S., R. 59 W.

5740
5730
5720
5710
5700

1910 1915 1930

EMB. FACTOR
EXCAVATION
EMB. X FACTOR
STA. YD. O. H.
YD. MI. O. H.
BORROW
BORROW SOURCE

PIT NO. 1

SUBBASE, BASE COURSE, & PLANT MIX (EXCEPT ROCK)

OWNER—C.G. WALLACE
QUANTITY AVAILABLE — 100,000 TONS

LOCATION — N.E. ¼ SEC. 8 T.9S. R. 59 W.
1.3 MILES FROM STATION 1929+66.6

ESTIMATED FOR STRIPPING — 6,000 CU. YDS.

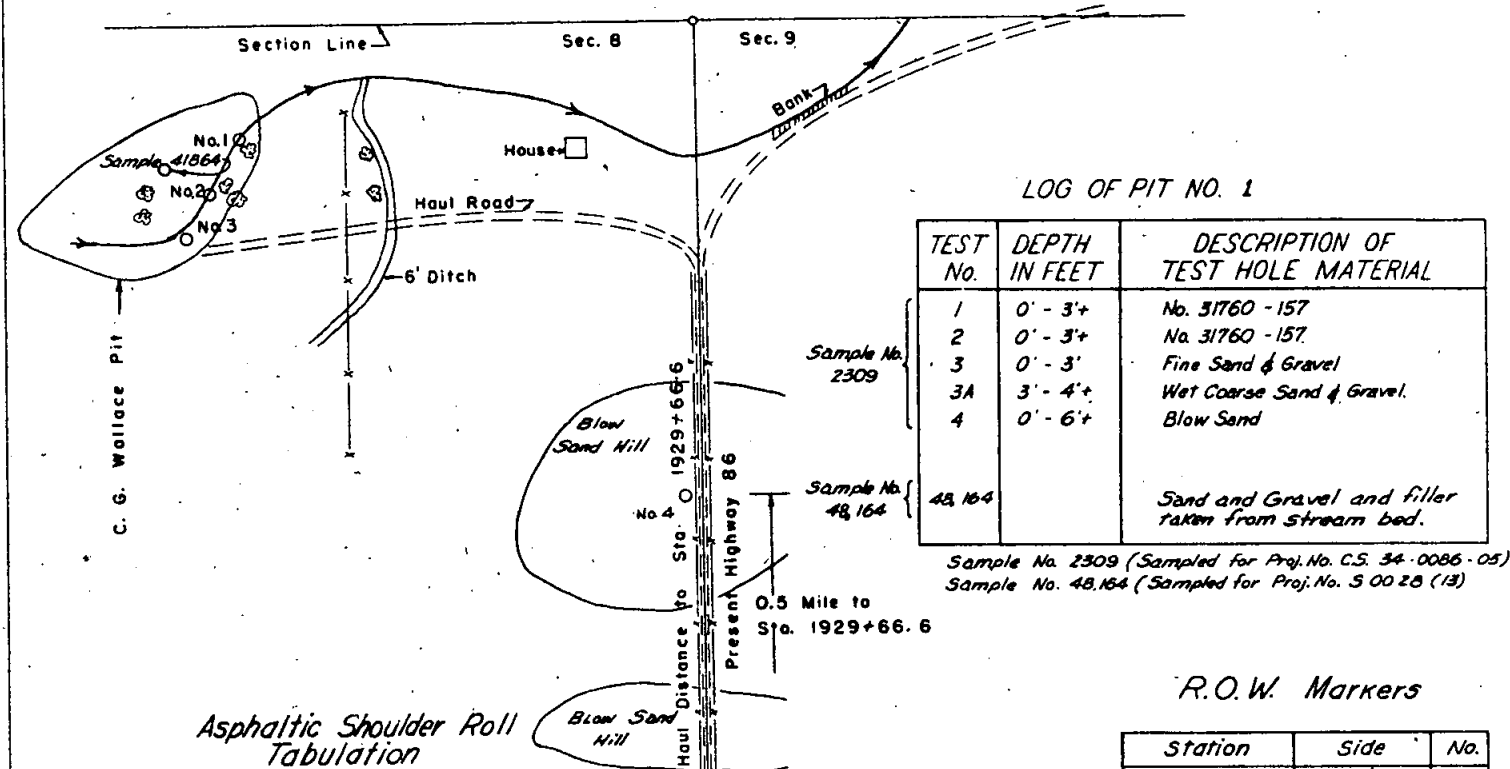
FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	S 0028 (13)	5	

Surfacing & Subbase Material Plans

Subbase

It is estimated that the Surfacing & Subbase Material for the project is available in the vicinity of the pit indicated in the following tabulations. Estimated Quantities involved in these operations are shown below.

Alteration of the surfacing & subbase material plans as here outlined will be allowed only on written permission from the department.



LOG OF PIT NO. 1

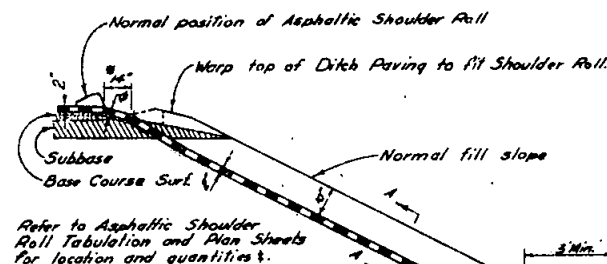
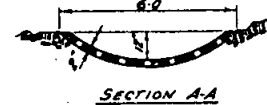
TEST No.	DEPTH IN FEET	DESCRIPTION OF TEST HOLE MATERIAL
1	0' - 3'	No. 31760 - 157
2	0' - 3'	No. 31760 - 157
3	0' - 3'	Fine Sand & Gravel
3A	3' - 4'	Wet Coarse Sand & Gravel
4	0' - 6'	Blow Sand
48, 164		Sand and Gravel and filler taken from stream bed.

Sample No. 2309 (Sampled for Proj. No. C.S. 34-0086-05)
Sample No. 48, 164 (Sampled for Proj. No. S 0028 (13))

R.O.W. Markers

Station	Side	No.
1748+00	Lt. & Rt.	2
1774+00	Lt. & Rt.	2
1800+00	Lt. & Rt.	2
1897+00	Lt. & Rt.	2
1923+00	Lt. & Rt.	2
Total		10'

DETAIL OF ASPHALTIC DITCH PAVING (FOR DRAINING ASPHALTIC SHOULDER ROLL)



Refer to Asphaltic Shoulder Roll Tabulation and Plan Sheets for location and quantities.

Quantities of Asphaltic Ditch Paving based on a rate of 0.08 Tons per Lin. Ft.

* For transition see Standard M-93-A.
* Same thickness as shoulder pavement.

SECTIONAL VIEW

Asphaltic Shoulder Roll Tabulation

Station	Side	Struct. Excess Cu. Yds.	Asph. Ditch Paving Tons	Class 'A' Conc. Cu. Yds.	12" C.M.P. Lin. Ft.	Type III Conc. Paving Each	Asph. Shoulder Roll Lin. Ft.
1722+00 to 1726+00	Rt. & Lt.		2				800
1726+00	"						
1727+00 to 1731+00	"		2				800
1727+00	"						
1736+00 to 1740+50	"		2				900
1736+00	"						
1750+00 to 1757+00	"		2				1,400
1757+00	"						
1764+00 to 1770+00	"		2				1,200
1764+00	"						
1767+60	Rt.	4		0.4	28	1	
1767+60	Lt.	4		0.4	34	1	
1801+00 to 1807+00	Rt. & Lt.		2				1,200
1807+00	"						
1836+00 to 1841+00	"		2				1,000
1836+00	"						
1894+00 to 1899+00	"		2				1,000
1899+00	"						
1930+50 to 1934+00	"		2				600
1930+50	"						
1944+00 to 1948+00	"		2				800
1944+00	"						
Total		8	18	0.8	62	2	9,700

It is estimated that 9,700 Lin. Ft. = 168 Tons

Station to Station	Source & R Value	T Thickness in inches	Tons Subbase Class 2	Overhaul Ton Miles
1721+00 to 1728+00		14	1,631	8,072
1728+00 to 1756+00		11	4,984	23,013
1756+00 to 1767+00		4	660	2,804
1767+00 to 1780+00		13	2,782	11,186
1780+00 to 1800+00		4	1,200	4,450
1800+00 to 1825+50		13	5,457	17,885
1825+50 to 1834+26.1		10	1,402	4,140
1835+73.9 to 1870+59.9 Bk.	Wallace Pit R Value = 70	10	5,578	14,012
1870+60.1 Ah. to 1878+00		10	1,184	2,500
1878+00 to 1883+00		12	980	1,954
1883+00 to 1907+00		7	2,616	4,499
1907+00 to 1917+16.3 Bk.		14	2,368	3,306
1929+66.6 Ah. to 1937+80.4		Leveling Course	1,806	2,698
1938+89.2 to 1950+00				
Correcting Irregularities			3,350	10,340
Est. for Crest Widening ~			664	2,282
From List of Structures			160	496
Approach to Project			27	100
Totals			36,849	113,737

Surfacing

Station to Station	Source & R Value	Tons Used Plant Mix	* Base Course	Overhaul Ton Miles
1721+00 to 1834+26.1		3511	6,230	24,563
1835+73.9 to 1870+60.2 Bk.		1,081	1,917	4,815
1870+60.3 Ah. to 1917+16.3 Bk.	Wallace Pit R Value = 70	1,444	2,561	4,458
1929+66.6 to 1937+80.4		253	448	617
1938+89.2 to 1948+24.7 Bk.		290	515	805
1948+24.9 Ah. to 1950+00		55	97	162
Finishing Shoulders From List of Structures Appr. to Proj.		58	1,284	3,875
		15	290	870
			60	165
Totals		6,707	13,392	40,330

* All Base Course material is to be cement treated.

* Based on design curve C approx. thickness.