

COLORADO DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. S0027(7) STATE HIGHWAY NO. 71 LINCOLN COUNTY RIGHT - OF - WAY

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
GROSS LENGTH OF PROJECT
NET LENGTH OF PROJECT



FEDERAL ROAD DIVISION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TO SHEET
9	COLORADO	S 0027 (7)	1	

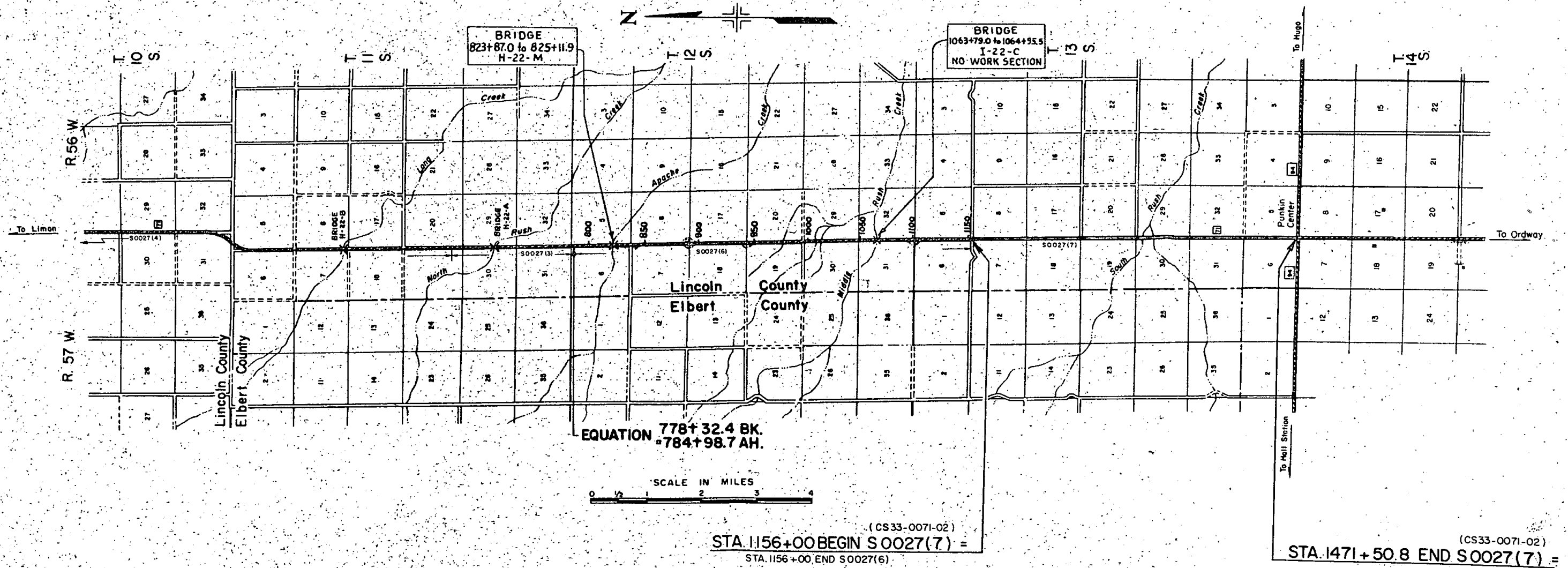
RIGHT OF WAY (CS 33-0071-02)

REVISIONS	

CONVENTIONAL SIGNS

CENTER LINE
RIGHT OF WAY LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
LAND LINES
RAILROAD
BARBED WIRE FENCE
COMBINATION WIRE FENCE
SNOW FENCE
TELEPHONE & TELEGRAPH LINES
POWER LINE
DETOUR
PRESENT ROAD (Plan Sheets)

Survey Project No. CS 33-0071-02

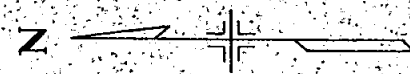


PROJ. S 0027 (7)

[illegible]

FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	COLD.	S 0027 (7)	3	

RIGHT OF WAY



S.W. 1/4 Sec. 5
T. 13 S. R. 56 W.

N.W. 1/4 Sec. 8
T. 13 S. R. 56 W.

N.W. 1/4 of Sec. 8
T. 13 S. R. 56 W.
Walter Hass and
Erno Hass

S.E. 1/4 Sec. 6
T. 13 S. R. 56 W.

N.E. 1/4 Sec. 7
T. 13 S. R. 56 W.

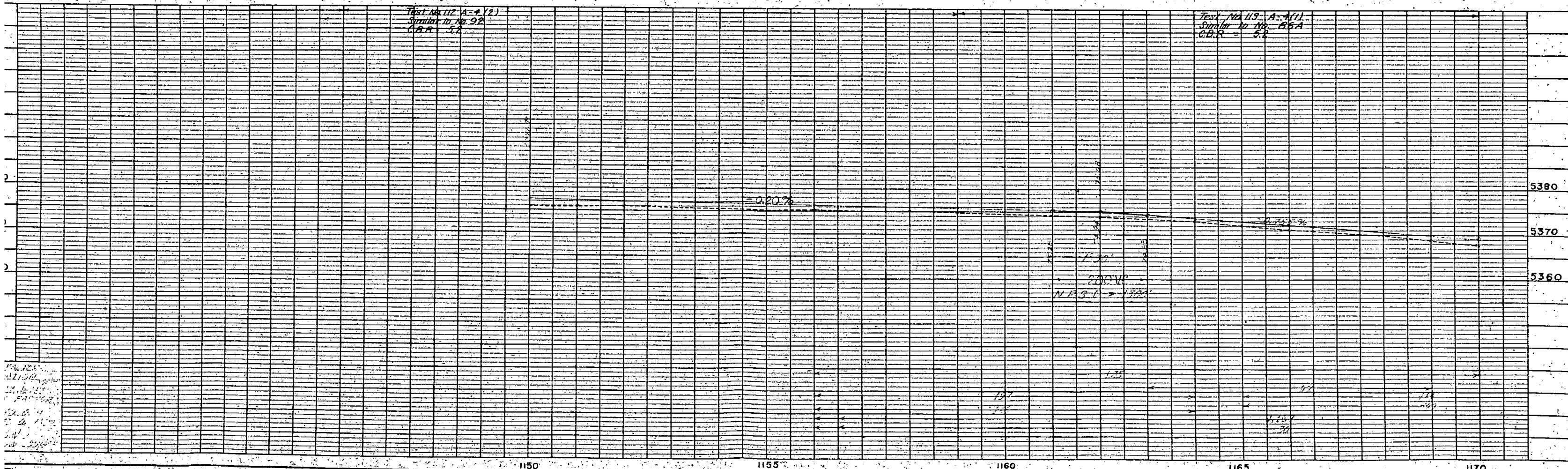
N. 1/2 of Sec. 7
T. 13 S. R. 56 W.
Walter Hass

Test No. 112 A-4(2)
Similar to No. 92
C.B.R. = 5.2

Test No. 113 A-4(1)
Similar to No. 86A
C.B.R. = 3.2

STA. 1156+00 BEGIN S 0027(7) =
STA. 1156+00 END PROJ. S 0027(6)

S 0027(6)
S 0027(7)



1150

1155

1160

1165

1170

FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.
8	COLD.	S 0027 (7)	3

RIGHT OF WAY

N.W. 1/4 of Sec. 8
T. 13 S., R. 56 W.
Walter Hass and
Erna Hass

N.W. 1/4 Sec. 8
T. 13 S. R. 56 W.

S.W. 1/4 Sec. 5
T.13 S. R.56 W.

S.E. 1/4 Sec. 6
T. 13 S. R. 56 W.

N.E. 1/4 Sec. 7
T. 13 S. R. 56 W.

N. 1/2 of Sec. 7
T. 13 S., R. 56 W.
Walter Hass

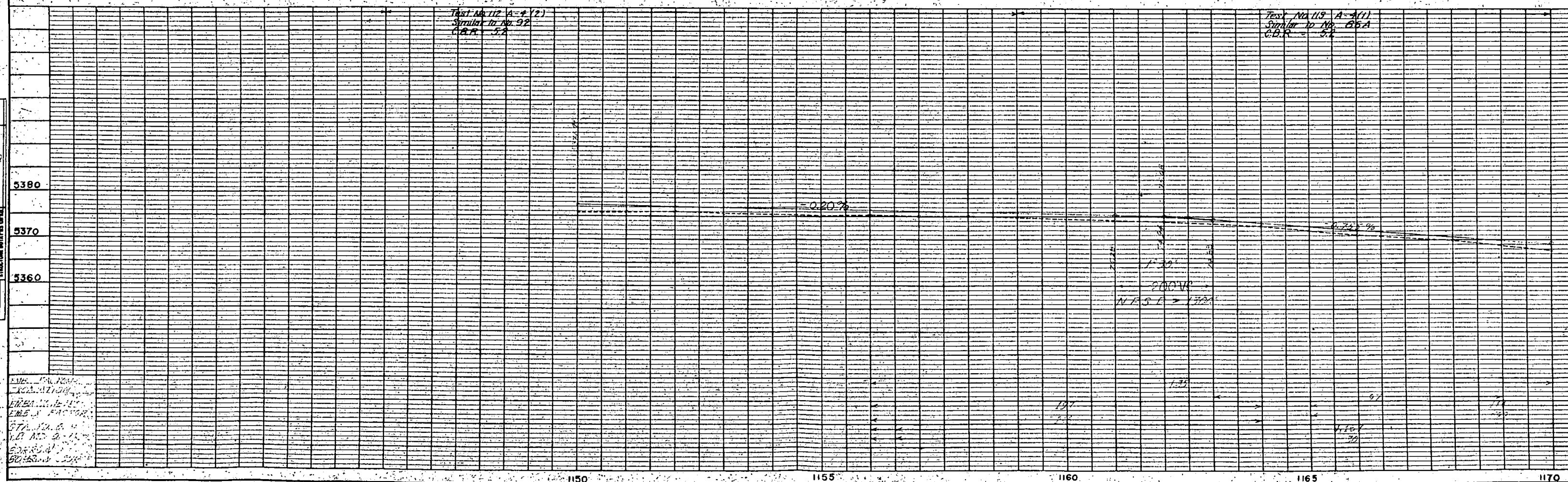
STA. 1156+00 BEGIN S 0027(7) =
STA. 1156+00 END PROJ. S0027(6)

S 0027(6)

S 0027(7)

Test No 112 A-4 12
Similar to No. 92
CAR 58

Test No.	119	A-411
Similar to No.	86	
C.B.R.	52	



S.W. 1/4 Sec. 8
T. 13 S., R. 56 W.

N.W. 1/4 Sec. 17
T. 13 S., R. 56 W.

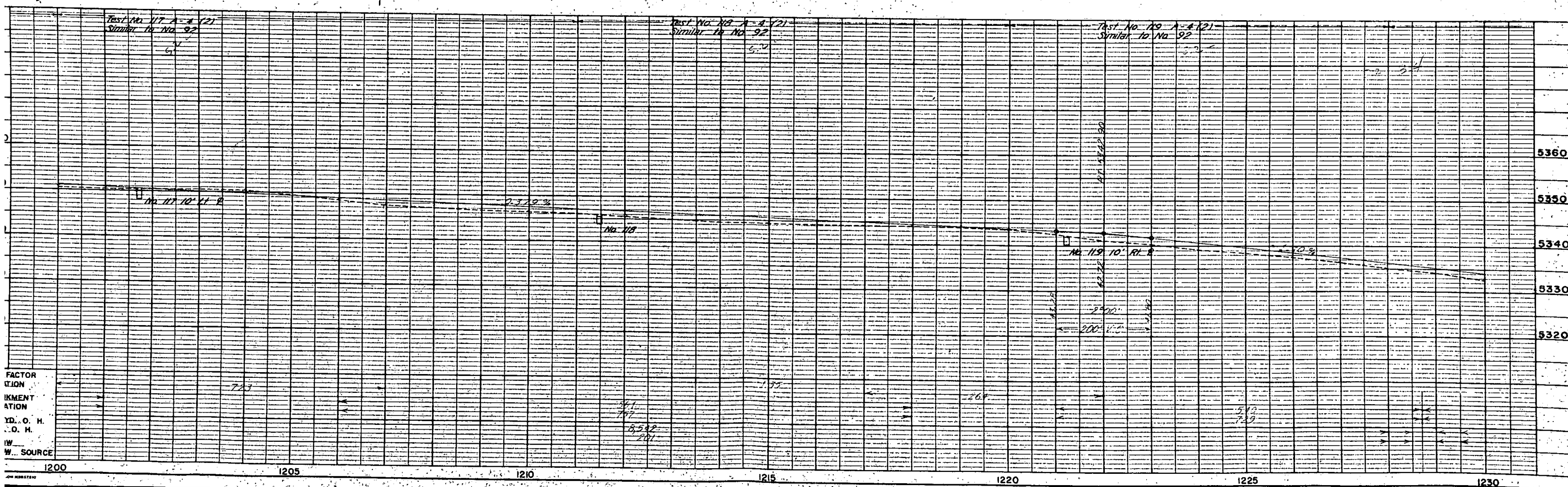
FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLD.	S 0027 (7)	5	

RIGHT OF WAY

All of Sec. 17
Dennis L. Osburn
Erlene R. Osburn
Except
2 Acres in the S.E. Cor. of Sec. 17,

N. 1/2 of Sec. 18
J. W. Minor
Violet A. Minor

N.E. 1/4 Sec. 18
T. 13 S., R. 56 W.



S.W. 1/4 Sec. 8
T. 13 S., R. 56 W.

N.W. 1/4 Sec. 17
T. 13 S., R. 56 W.

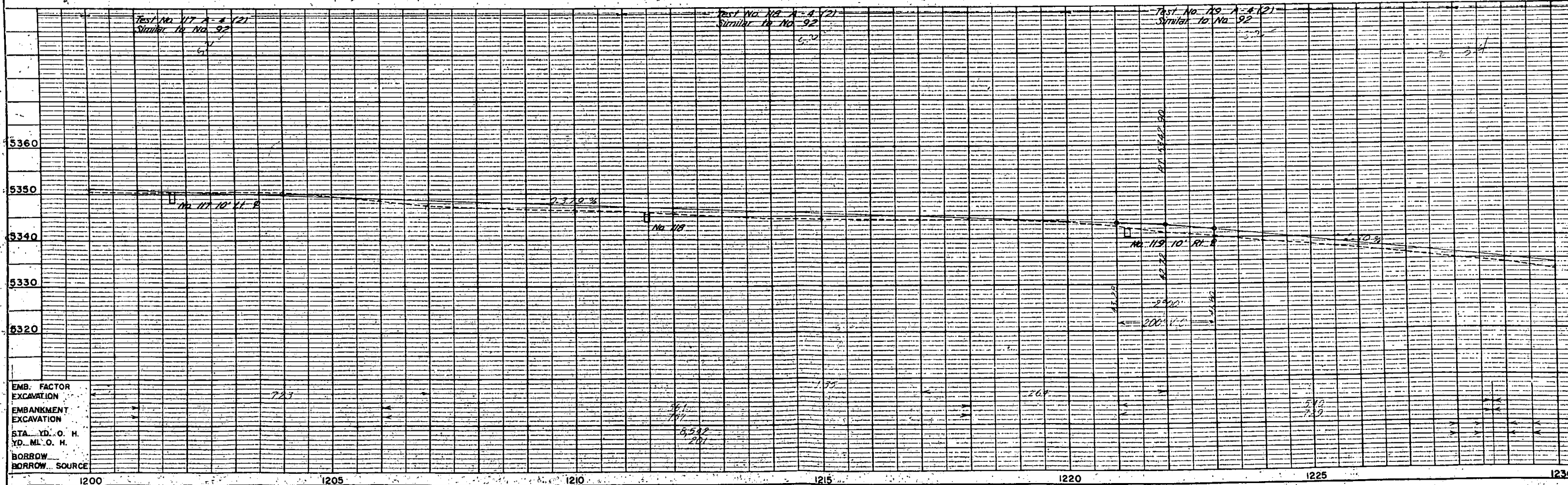
FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	1
9	COLD.	S 0027(7)	5	3

RIGHT OF WAY

All of Sec. 17
Dennis L. Osburn
Erlene R. Osburn
Except:
2 Acres in the S.E. Cor. of Sec. 17.

N. 1/2 of Sec. 18
J. W. Minor
Violet A. Minor

N.E. 1/4 Sec. 18
T. 13 S., R. 56 W.



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

N.E. 1/4 Sec. 18
T. 13S., R. 56W.

REVISIONS		
8-4-59	Owner Change on	1 Rev. DW
8-11-59	DELETE PARCEL 2	JL

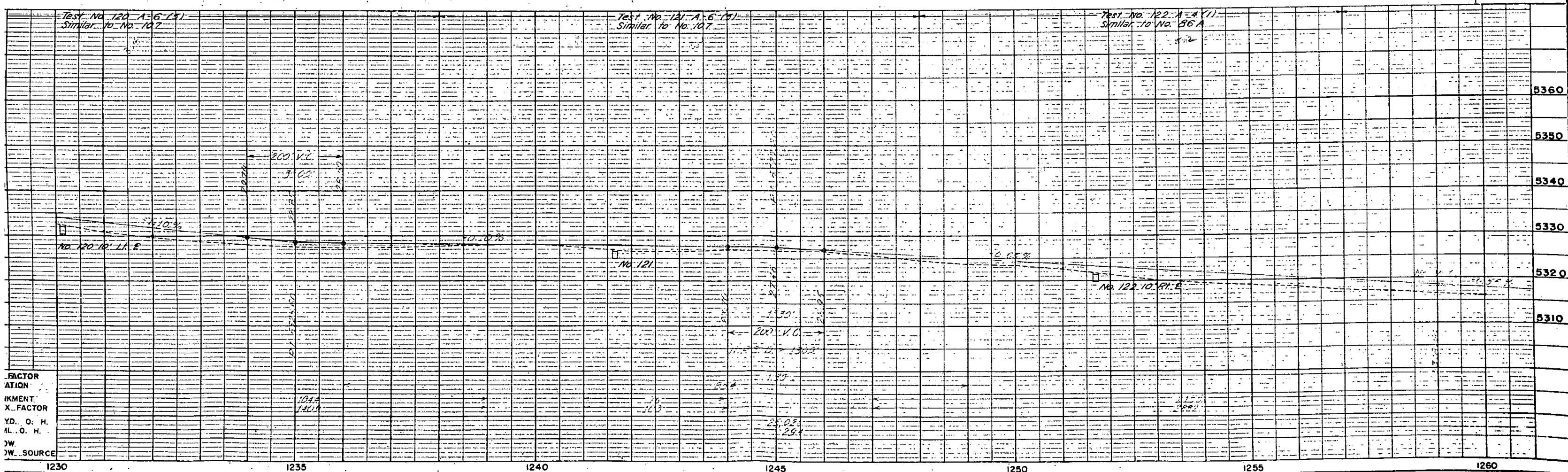
FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0027 (7)	6	6

RIGHT OF WAY

S.W. 1/4 Sec. 17
T. 13 S. R. 56 W.

S. E. 1/4 Sec. 18
T. 13 S. R. 56 W.

S. 1/2 of Sec. 18
Carl White



REVISIONS			
B-4-59	Owner Change on	1 Rev.	DL
B-11-59	DELETE PARCEL 2		JD

FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.
9	COLO.	S 0027 (7)	6

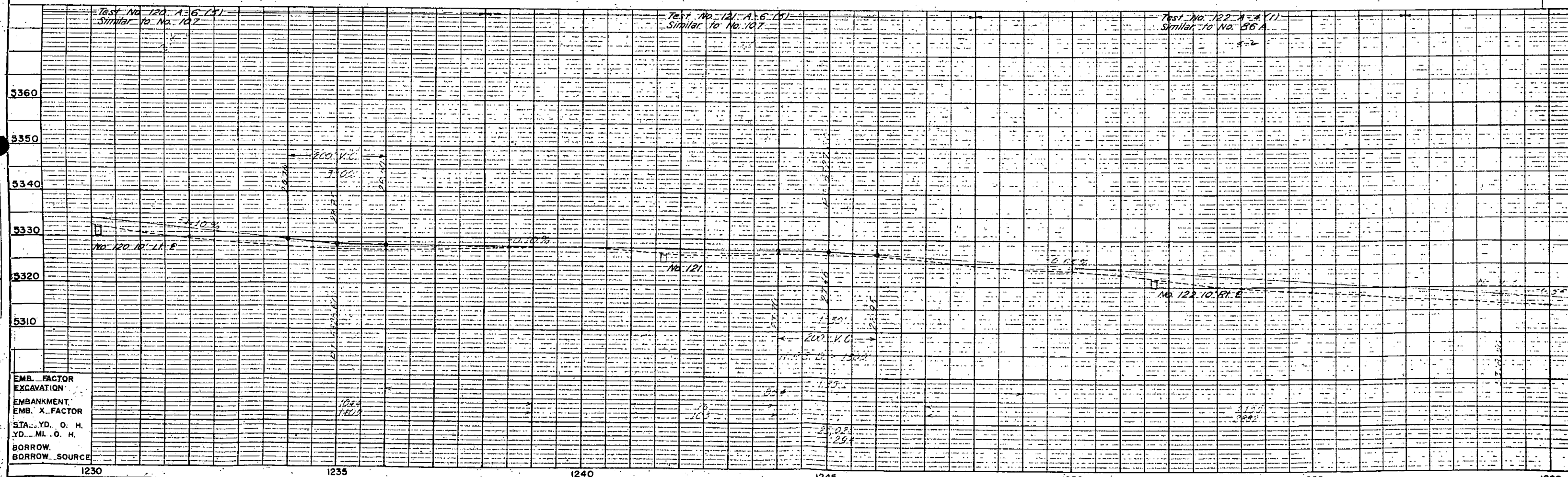
RIGHT OF WAY

N.E. 1/4 Sec. 18
T. 13S., R. 56W.

S.W. 1/4 Sec. 17
T. 13 S. R. 56 W.

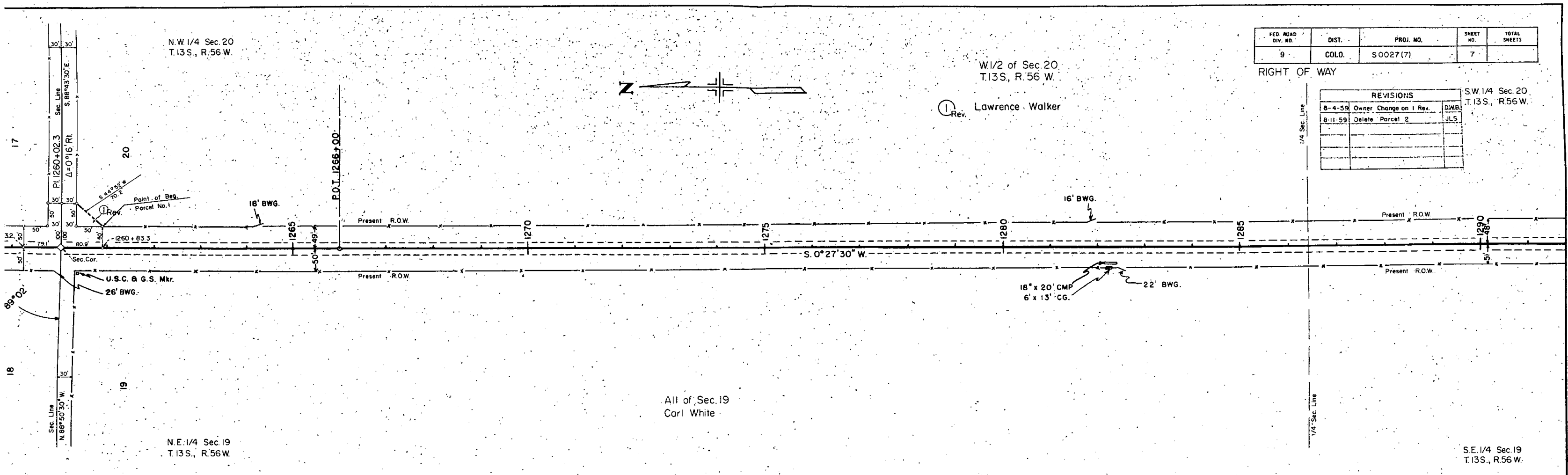
S. E. 1/4 Sec. 18
T. 13 S. R. 56 W.

S. 1/2 of Sec. 18
Carl White



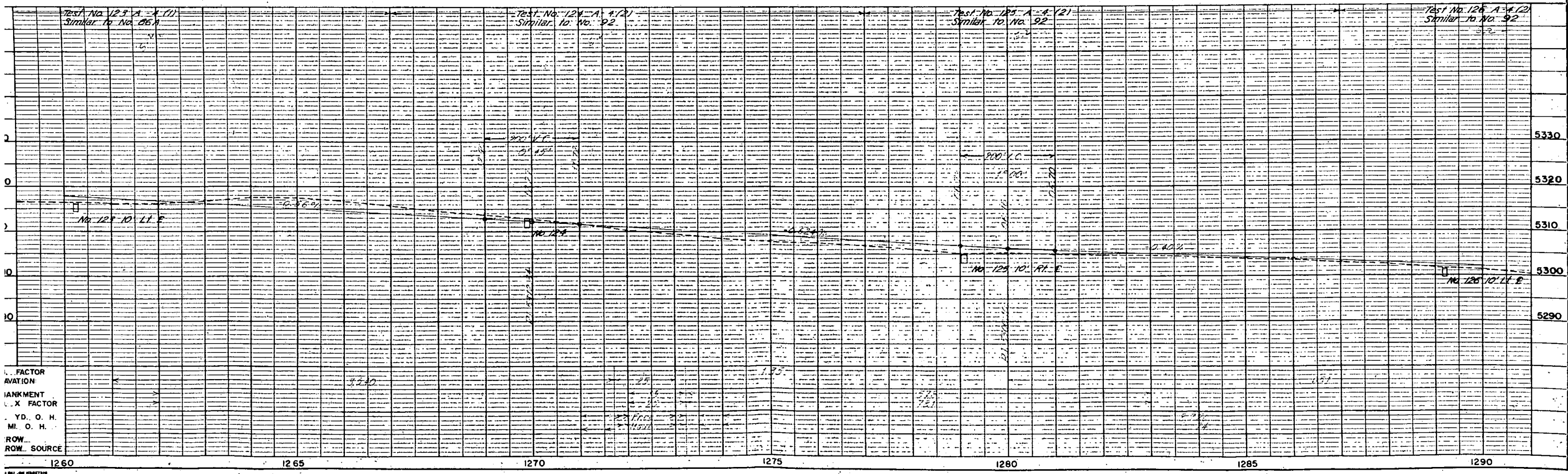
EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. X_FACTOR
STA. YD. O. H.
YD. ML. O. H.
BORROW.
BORROW_SOURCE

1230



FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S0027(7)	7	

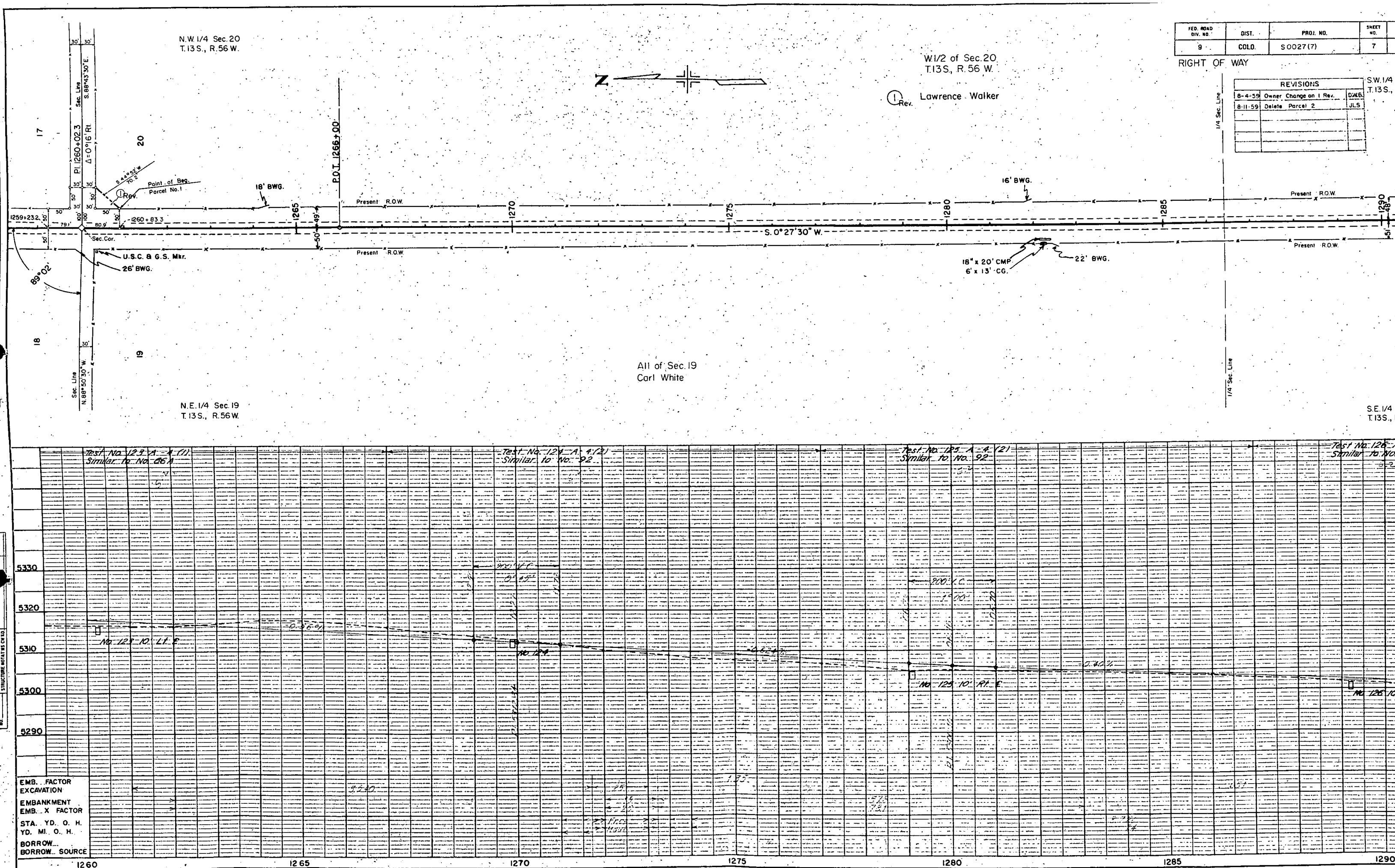
REVISIONS		
8-4-59	Owner Change on 1 Rev.	D.W.E.
8-11-59	Delete Parcel 2	JLS



RIGHT OF WAY

...the fact that the *in vitro* and *in vivo* results are in good agreement.

S.W. 1/4
T. 13 S.,



FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0027 (7)	9	

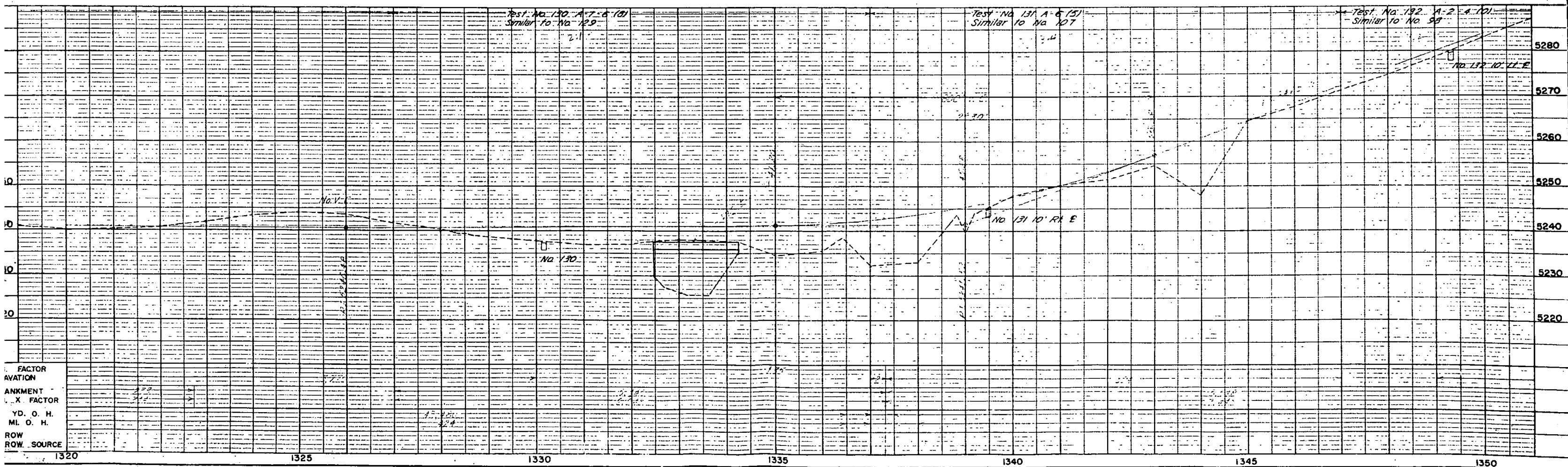
RIGHT OF WAY	REVISIONS		
	11-16-59	Added TE-4	FCM

ec.29

N. 1/2 of N.E. 1/4 Sec. 30
T. 13 S., R. 56 W.
Carl White

⑤ S.1/2 of N.E.1/4 Sec. 30
W.1/2 of Sec. 30
S.E.1/4 of Sec. 30
Carl White

S.E. 1/4 Sec. 30
T. 13 S., R. 56 W.



FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.
9	COLO.	S 0027 (7)	9

REVISIONS	
11-16-59	Added TE-4

RIGHT OF WAY

N.W. 1/4 Sec. 29
T. 13 S., R. 56 W.

S.W. 1/4 Sec. 29
T. 13 S., R. 56 W.

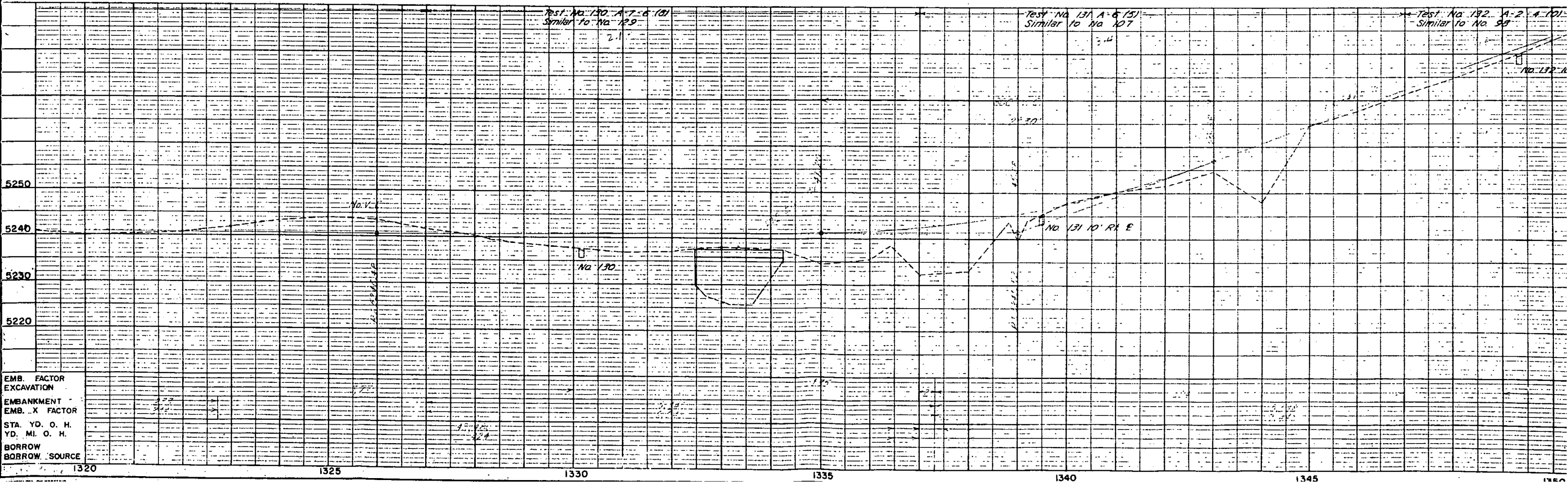
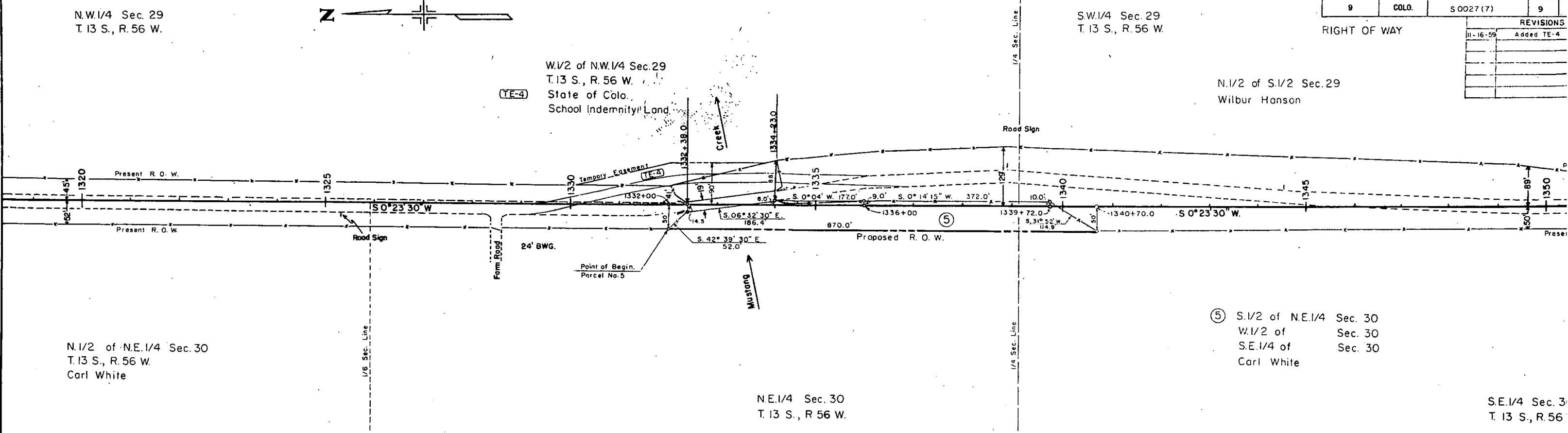
N. 1/2 of S. 1/2 Sec. 29
Wilbur Hanson

W. 1/2 of N.W. 1/4 Sec. 29
T. 13 S., R. 56 W.
State of Colo.
School Indemnity Land

N. 1/2 of N.E. 1/4 Sec. 30
T. 13 S., R. 56 W.
Carl White

N.E. 1/4 Sec. 30
T. 13 S., R. 56 W.

S.E. 1/4 Sec. 30
T. 13 S., R. 56 W.



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

1320 1325 1330 1335 1340 1345 1350

W 1/2 of Sec. 20
T. 13 S., R. 56 W.

③ Rev. Lawrence Walker

S.W. 1/4 Sec. 20
T. 13 S. R. 56 W.

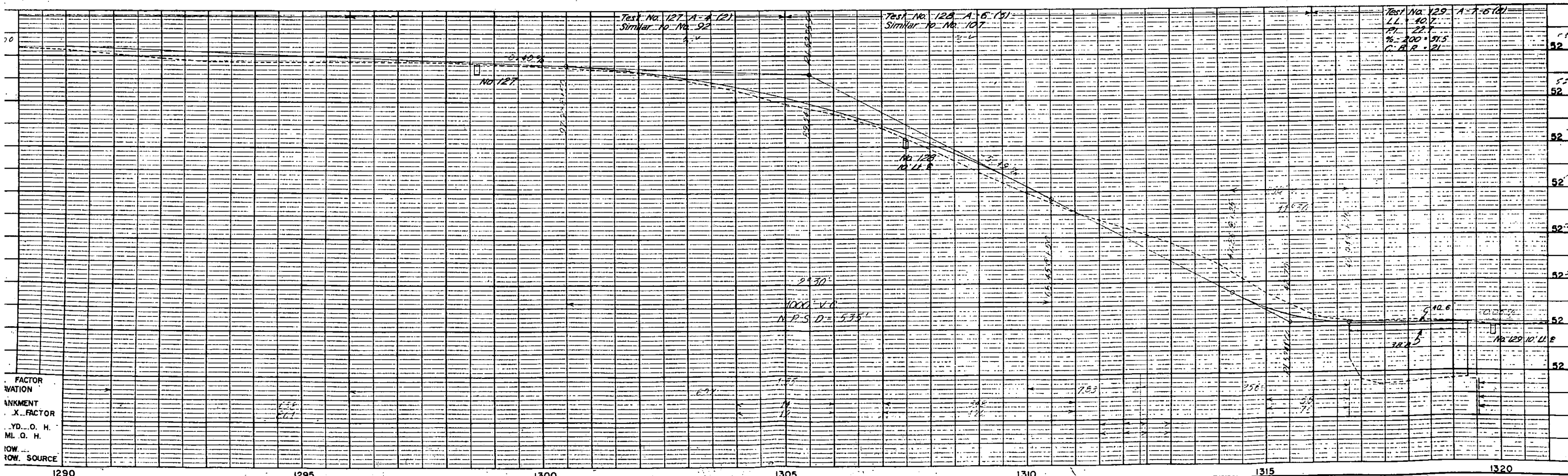
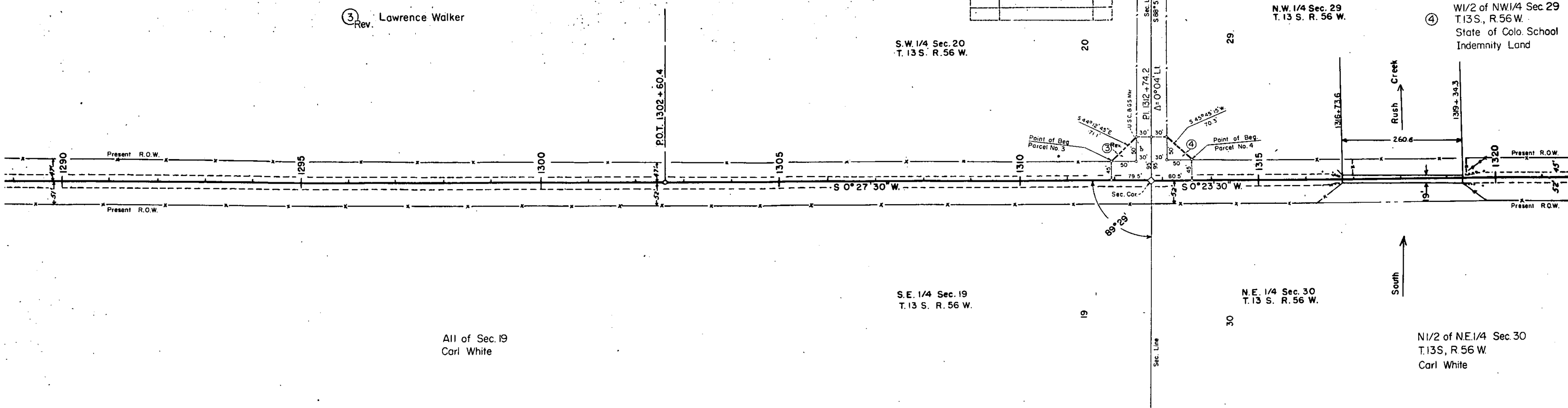
REVISIONS		
8-4-59	Owner Change on 3 Rev. D.W.B.	

RIGHT OF WAY

FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S0027 (7)	8	

N.W. 1/4 Sec. 29
T. 13 S. R. 56 W.

④ W 1/2 of NW 1/4 Sec. 29
T. 13 S., R. 56 W.
State of Colo. School
Indemnity Land



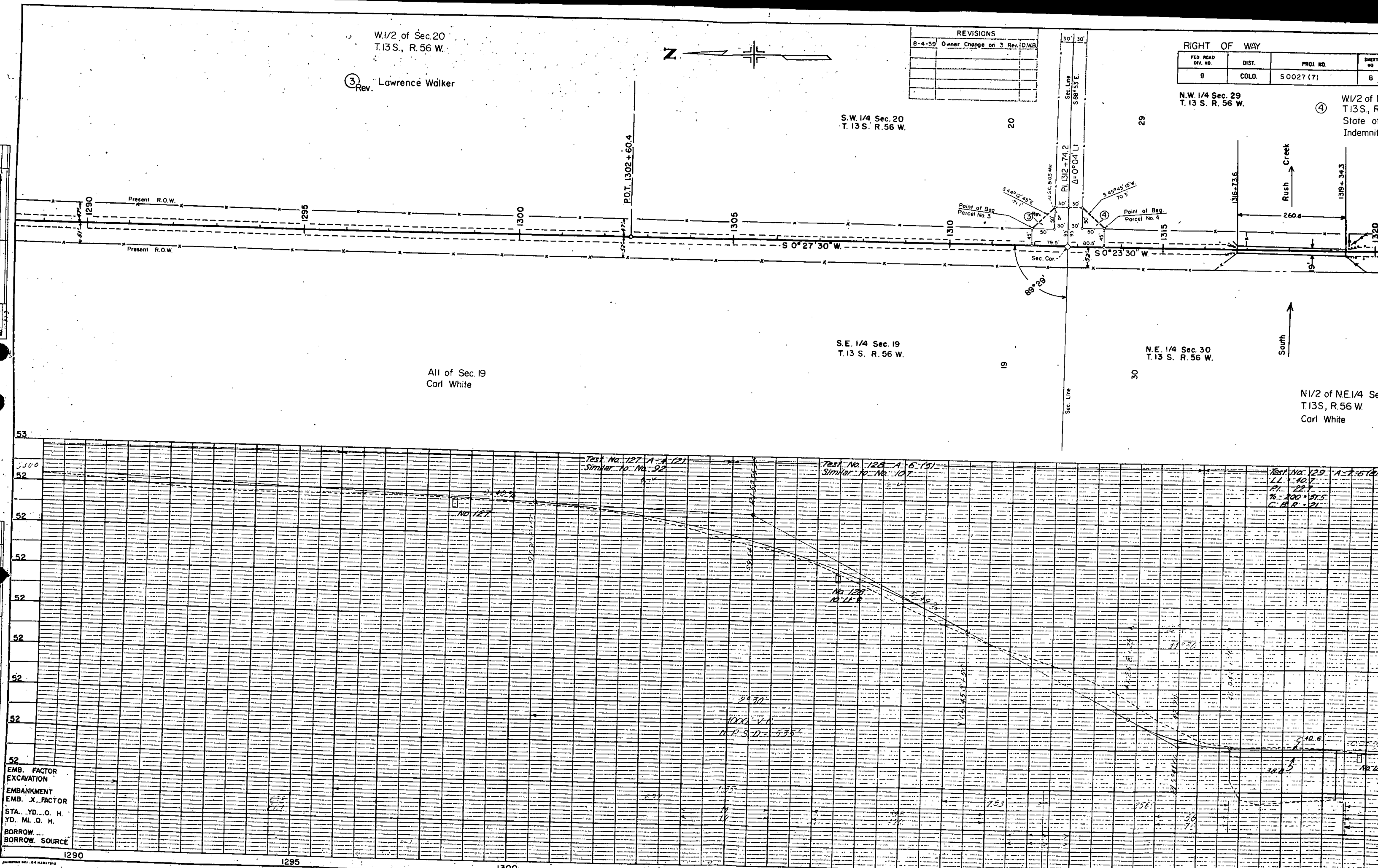
FACTOR
AVATION
ANKMENT
X FACTOR
YD...O. H.
ML. Q. H.
LOW...
LOW SOURCE

PLAN

DATE	
UNIT	
NOTES	
REVISIONS	
OWNER CHANGE ON 3 Rev. D.W.B.	
8-4-59	

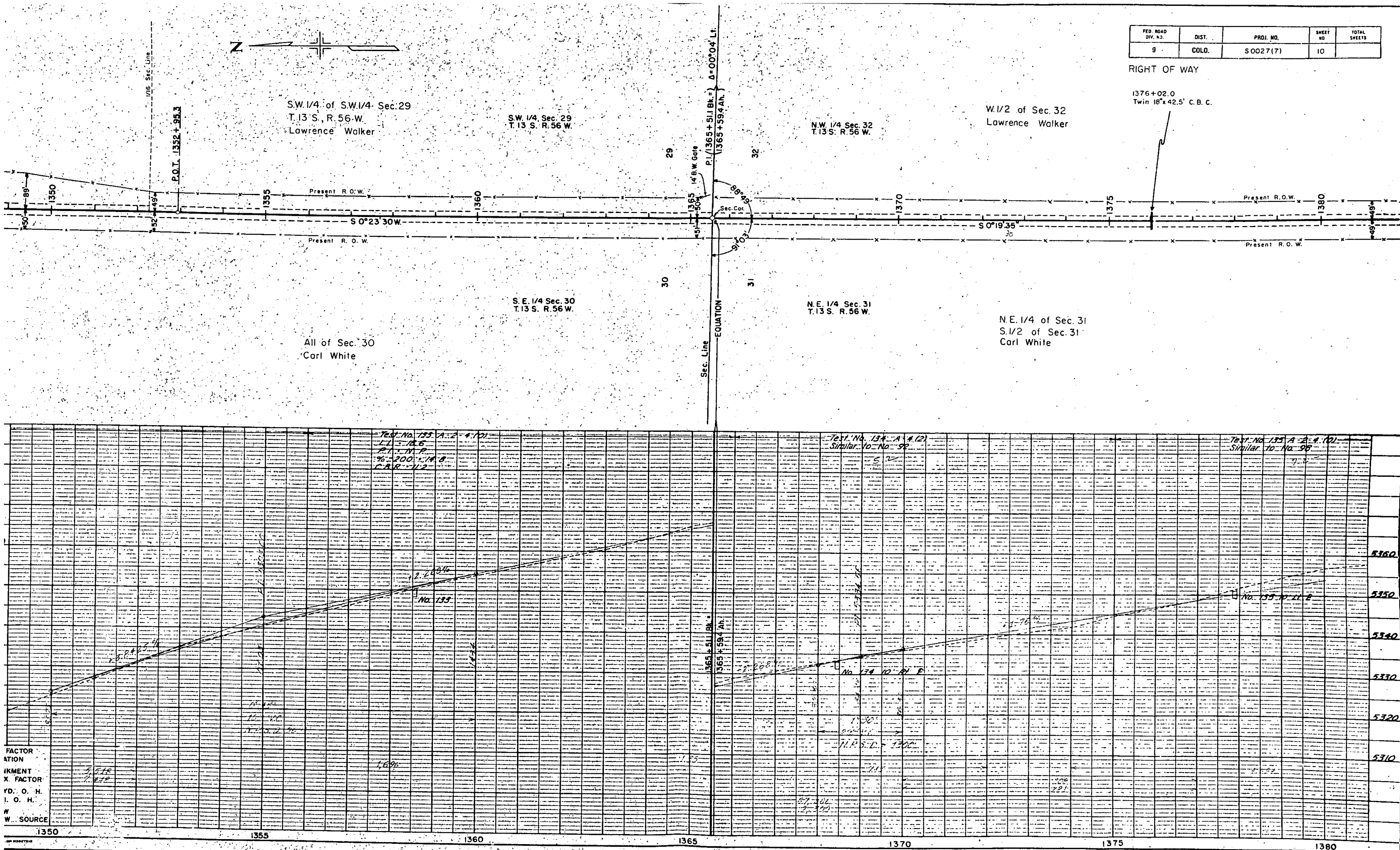
PROFILE

DATE	
UNIT	
NOTES	
REVISIONS	
OWNER CHANGE ON 3 Rev. D.W.B.	
8-4-59	



FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLD.	S0027(7)	10	

RIGHT OF WAY



Test No. 133 A-2-4 (2)
 L.L. = 10.6
 P.I. = 11.6
 % = 200 x 11.6
 C.B.C. = 11.2

Test No. 134 A-2-4 (2)
 Similar to No. 98
 5.2

Test No. 135 A-2-4 (2)
 Similar to No. 98
 7.2

FACTOR
 ATION
 IKMENT
 X FACTOR
 YD. O. H.
 I. O. H.
 W. SOURCE

5360
 5350
 5340
 5330
 5320
 5310

SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	

PLAN
NOTE BOOK



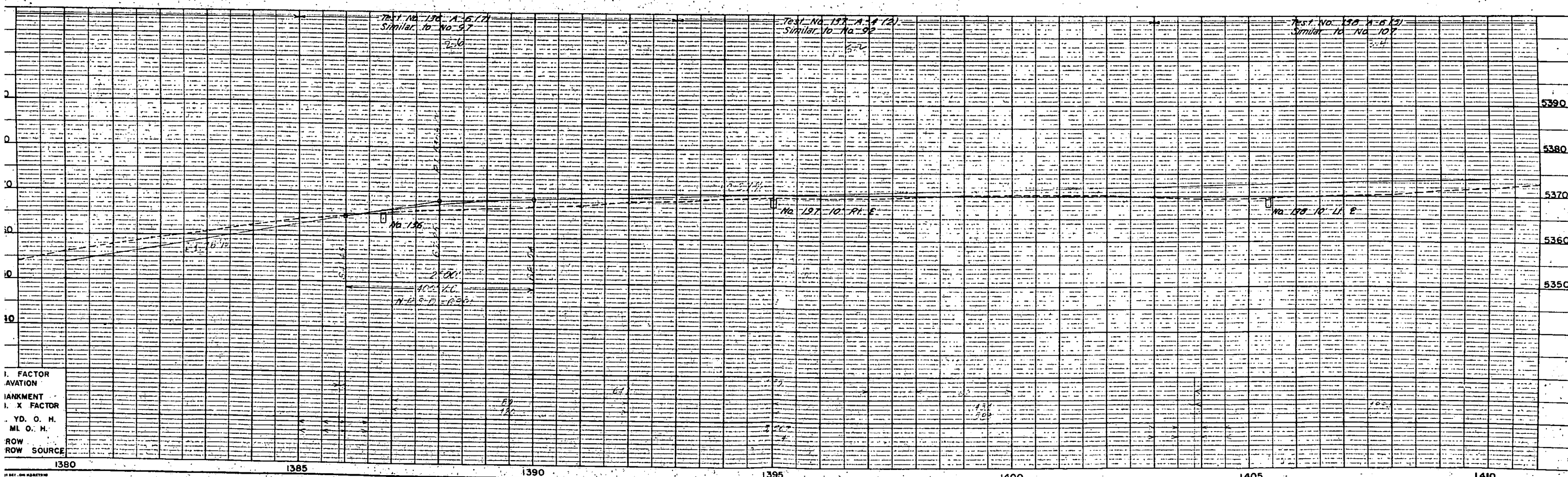
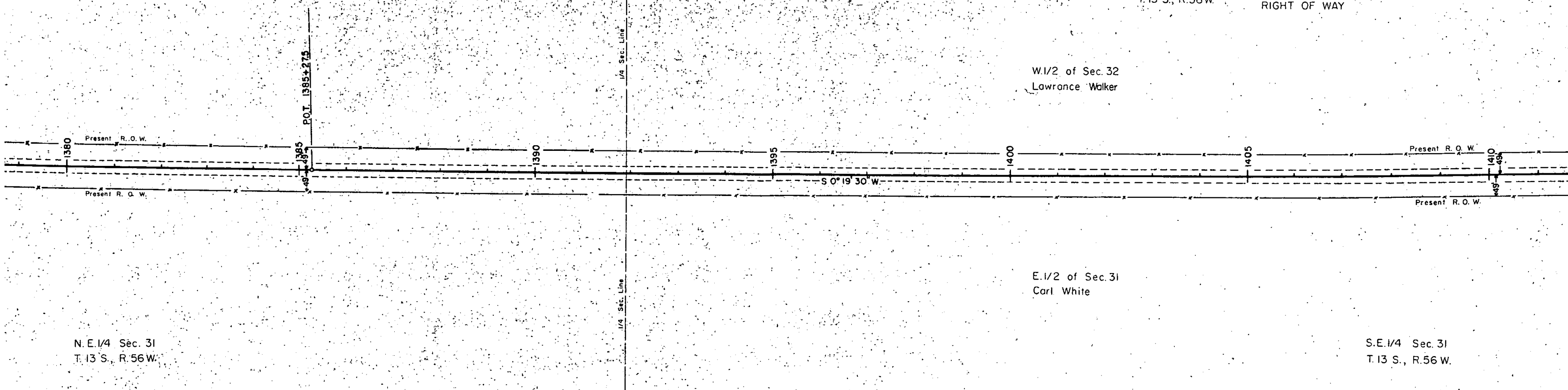
EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. X FACTOR
STA. YD. O. H.
YD. MI. O. H.
BORROW
BORROW SOURCE

N.W. 1/4 Sec. 32
T.13 S., R.56 W.

S.W. 1/4 Sec. 32
T.13 S., R.56 W.

FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S0027(7)	11	

RIGHT OF WAY



1. FACTOR
AVATION
IANKMENT
1. X FACTOR
YD. O. H.
ML O. H.
ROW
ROW SOURCE

N.W. 1/4 Sec. 32
T.13 S., R.56 W.

S.W. 1/4 Sec. 32
T.13 S., R.56 W.

FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.
9	COLO.	S 0027 (7)	11

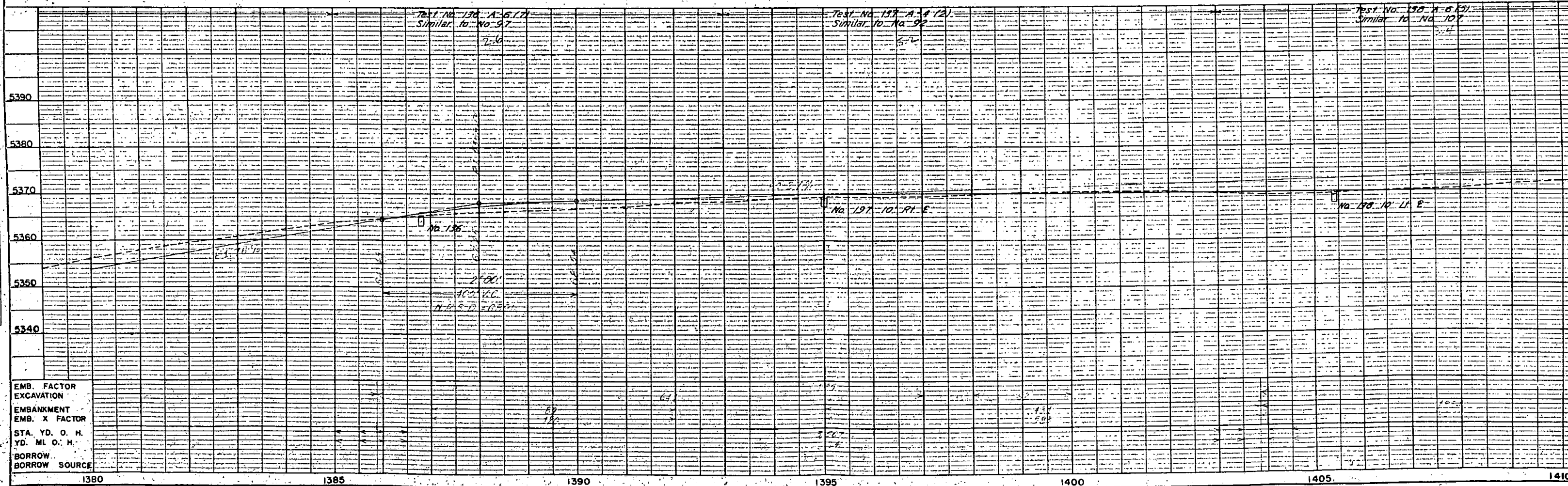
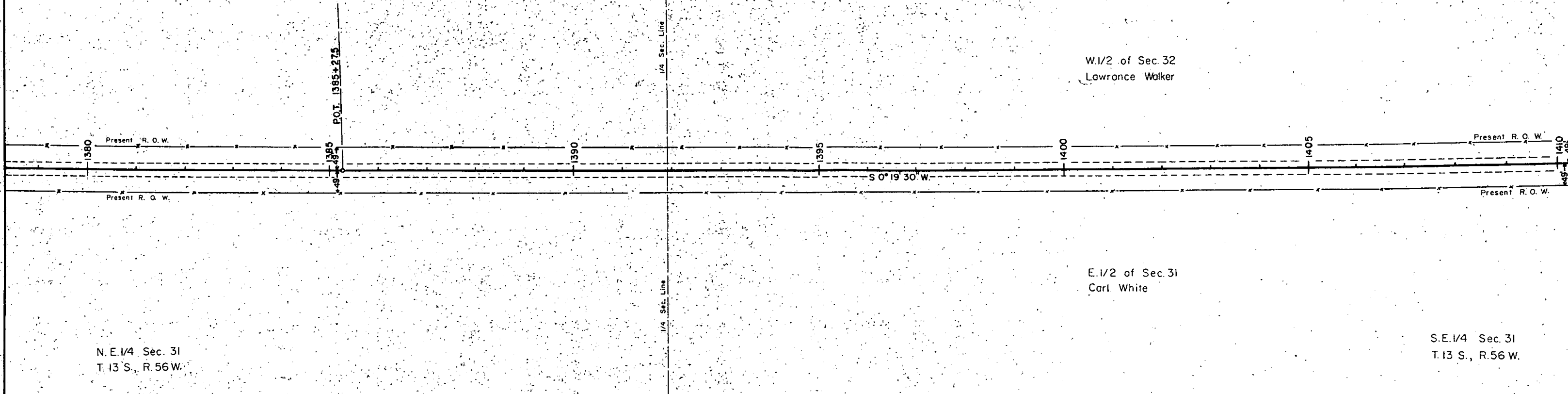
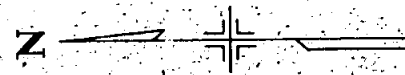
RIGHT OF WAY

W. 1/2 of Sec. 32
Lawrence Walker

E. 1/2 of Sec. 31
Carl White

N. E. 1/4 Sec. 31
T.13 S., R.56 W.

S.E. 1/4 Sec. 31
T.13 S., R.56 W.



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

⑥ W. 1/2 of Sec. 32
Lawrence Walker

S.W. 1/4 Sec. 32
T.13 S. R. 56 W.

N.W. 1/4 Sec. 5
T.14 S. R. 56 W.

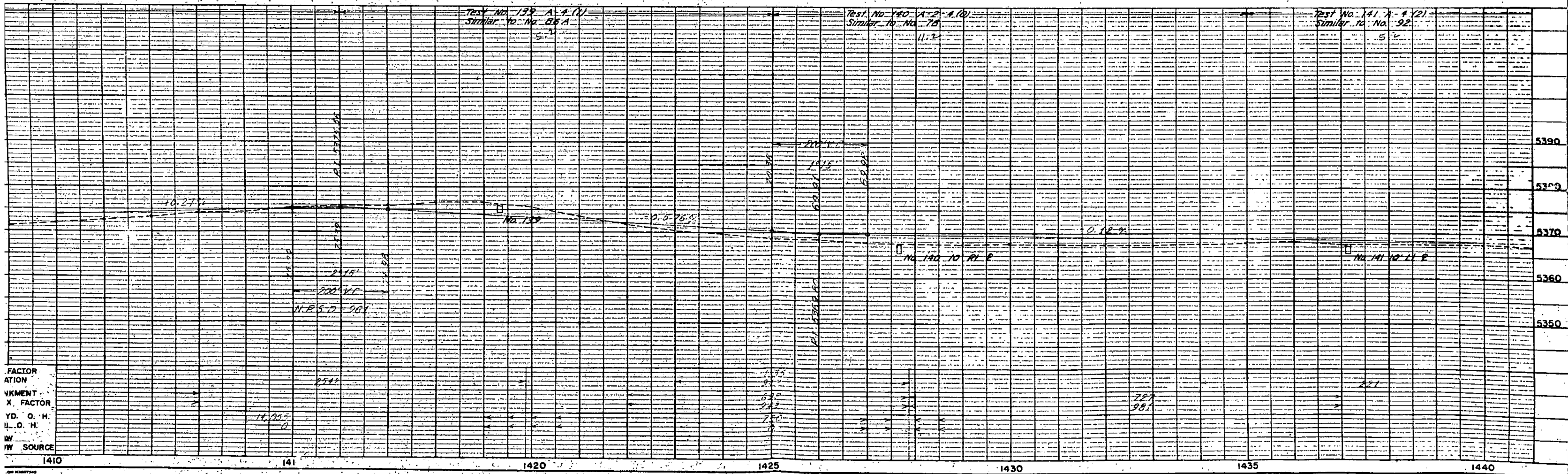
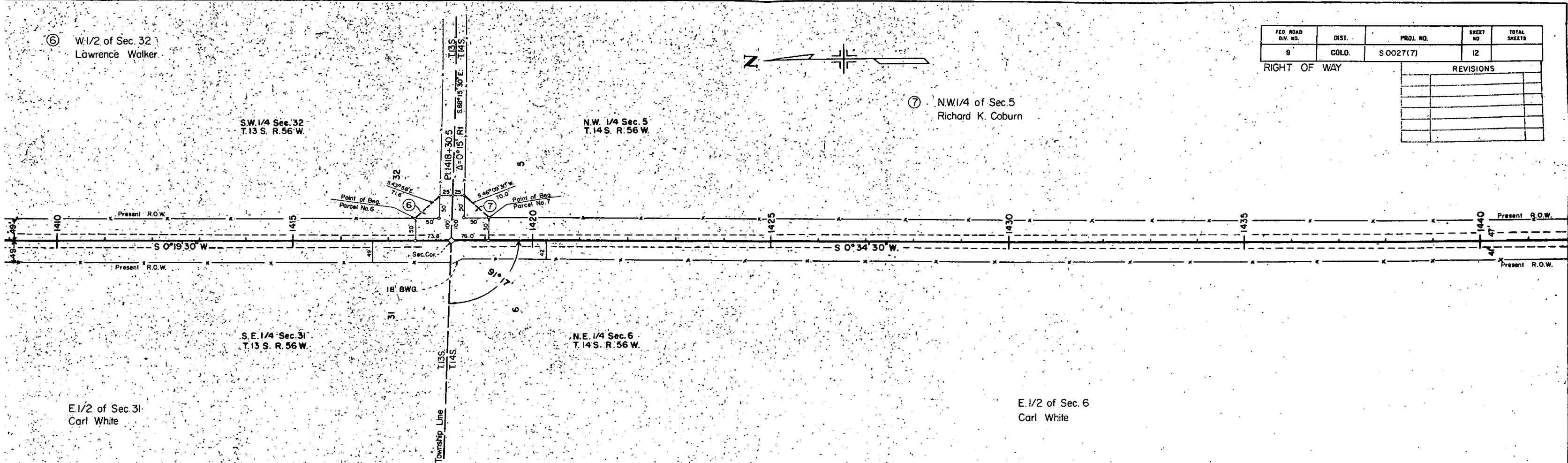
⑦ NW 1/4 of Sec. 5
Richard K. Coburn

FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0027(7)	12	

RIGHT OF WAY

REVISIONS

NO.	DESCRIPTION	DATE



⑥ W.1/2 of Sec. 32
Lawrence Walker

S.W. 1/4 Sec. 32
T.13 S. R.56 W.

N.W. 1/4 Sec. 5
T.14 S. R.56 W.

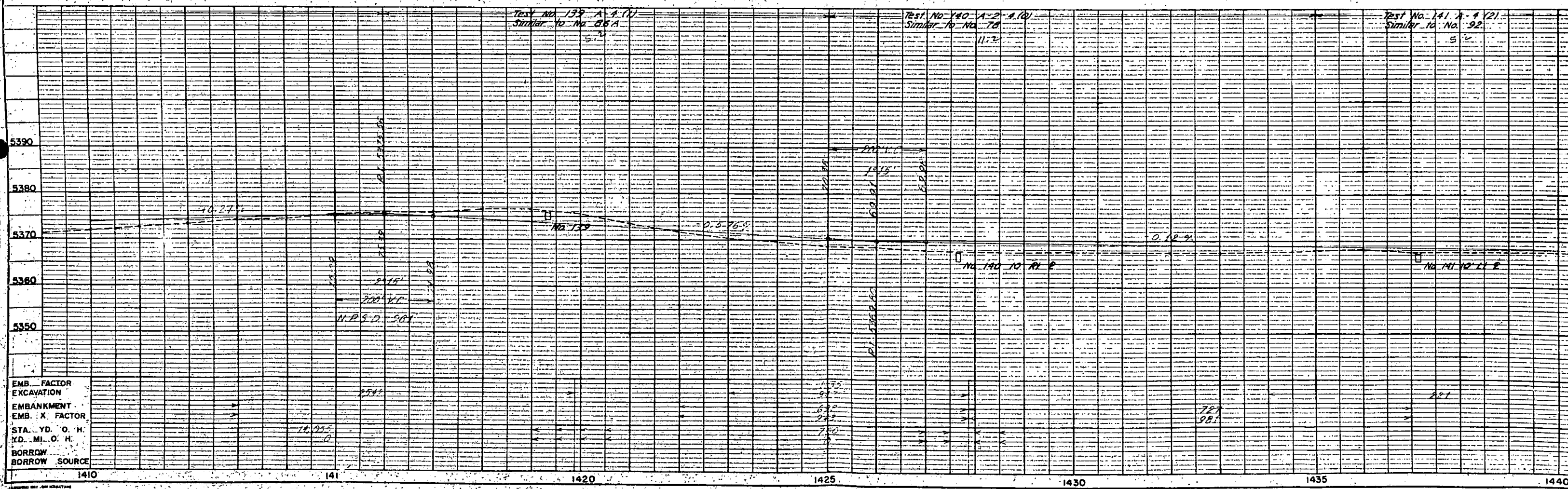
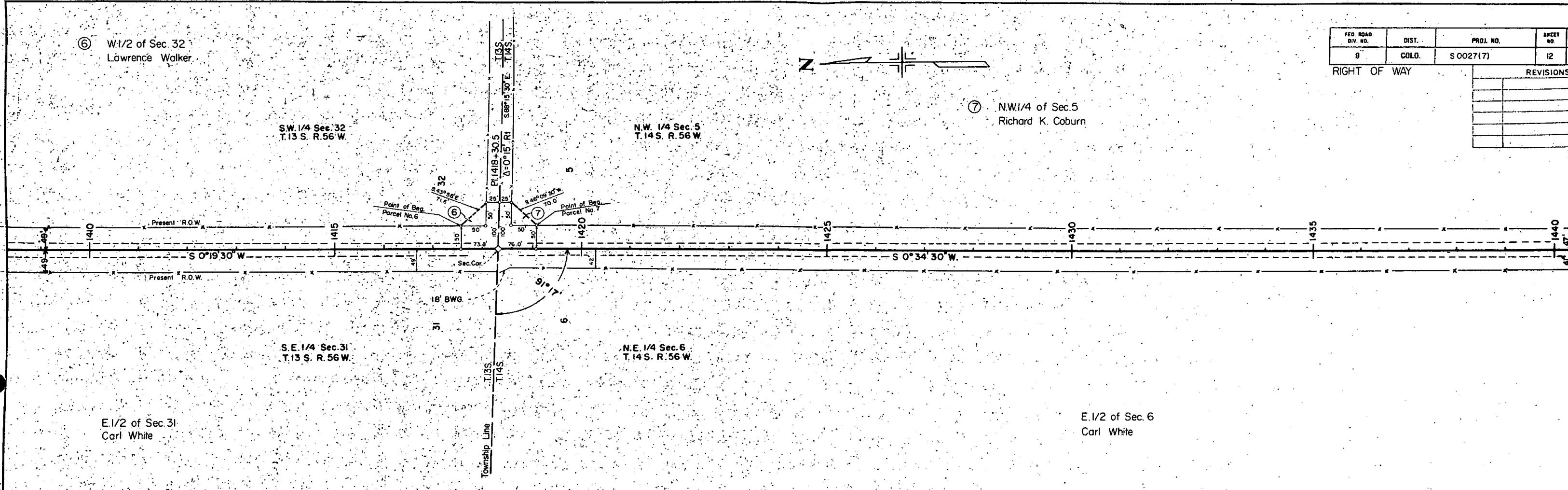
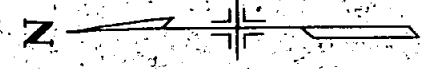
⑦ N.W.1/4 of Sec.5
Richard K. Coburn

FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.
9	COLD.	S 0027(7)	12

RIGHT OF WAY

REVISIONS

NO.	DESCRIPTION



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

FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLD.	S 0027(7)	13	

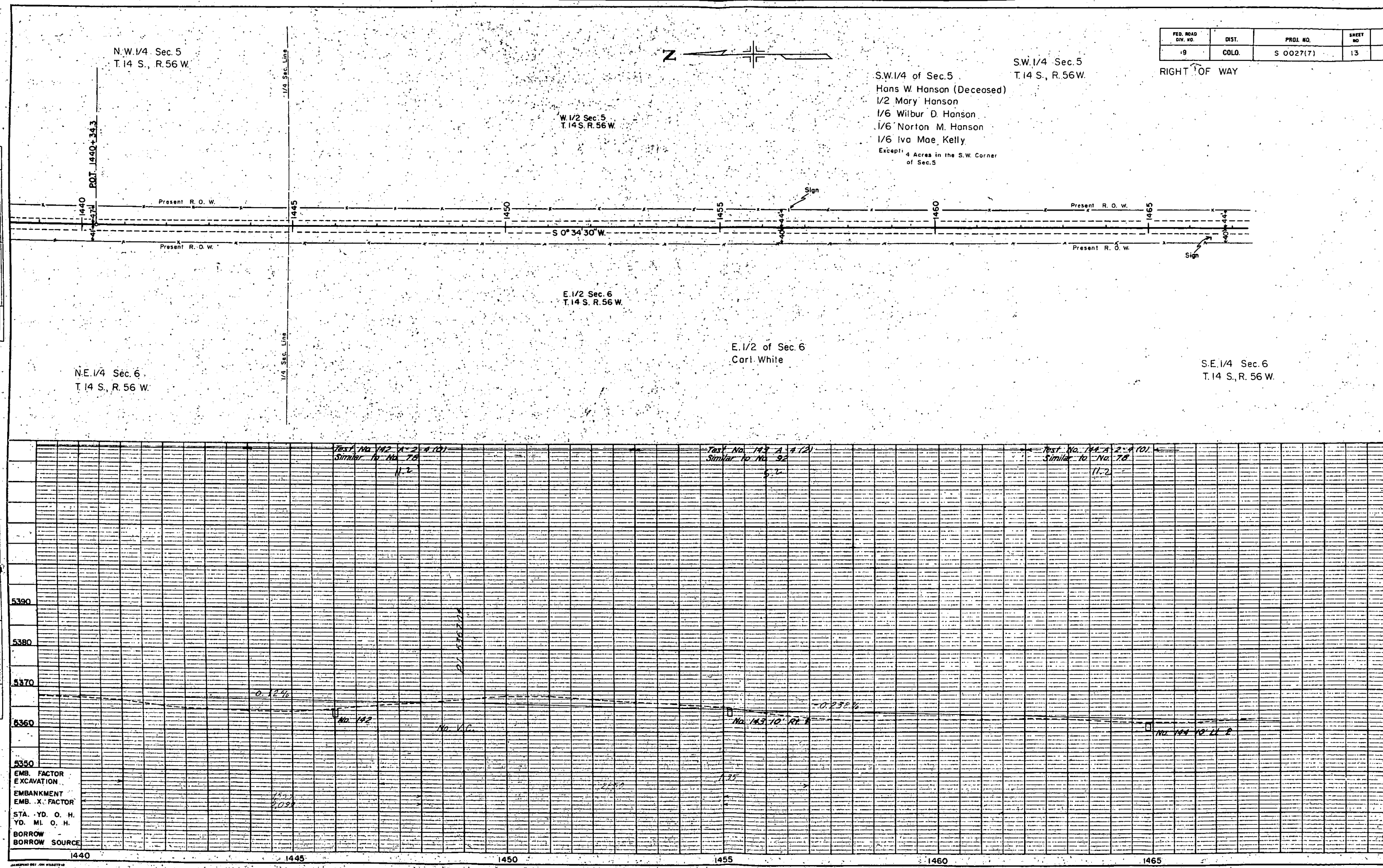
S.W. 1/4 of Sec. 5
Hans W. Hanson (Deceased)
1/2 Mary Hanson
1/6 Wilbur D. Hanson
1/6 Norton M. Hanson
1/6 Iva Mae Kelly
Except: 4 Acres in the S.W. Corner
of Sec. 5

E. 1/2 Sec. 6
T. 14 S. R. 56 W

S.E. 1/4 Sec. 6
T. 14 S., R. 56 W.

PLAN
SURVEYED
PLATTED
CHECKED
BY
DATE
NOTE BOOK
NO.

PROFILE
SURVEYED
PLATTED
CHECKED
BY
DATE
NOTE BOOK
NO.



FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.
9	COLO.	S 0027(7)	13

RIGHT OF WAY

SW 1/4 Sec. 5
T.14S., R.56W.

NW 1/4 Sec. 8
T.14S., R.56W.

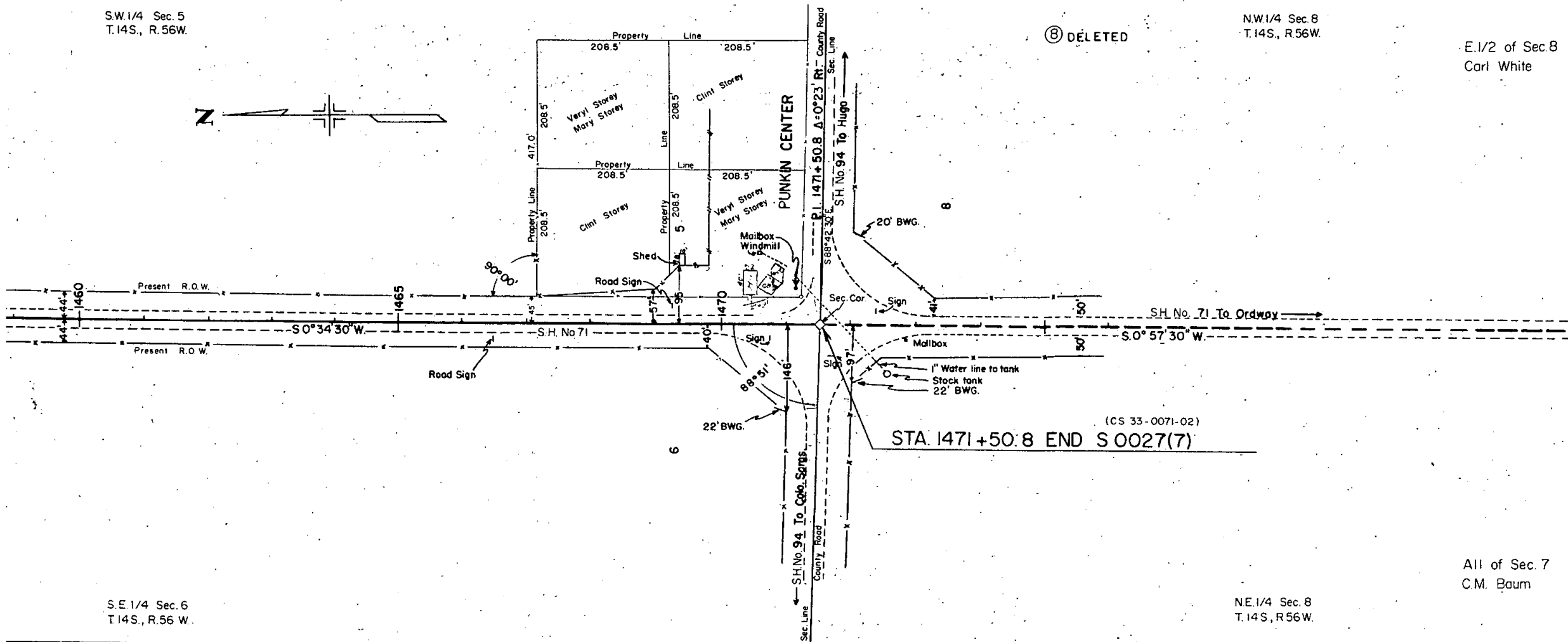
E. 1/2 of Sec. 8
Carl White

FCD. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET #3	TOTAL SHEETS
9	COLD.	S 0027 (7)	14	

RIGHT OF WAY

REVISIONS

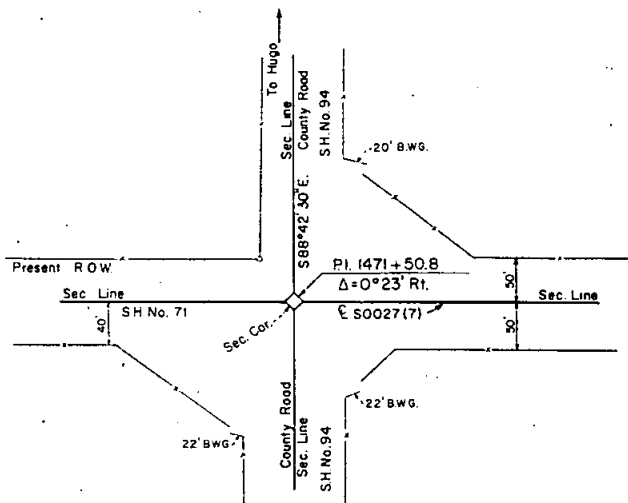
DATE	DESCRIPTION	BY
8-11-59	Delete Parcel 8	JLS



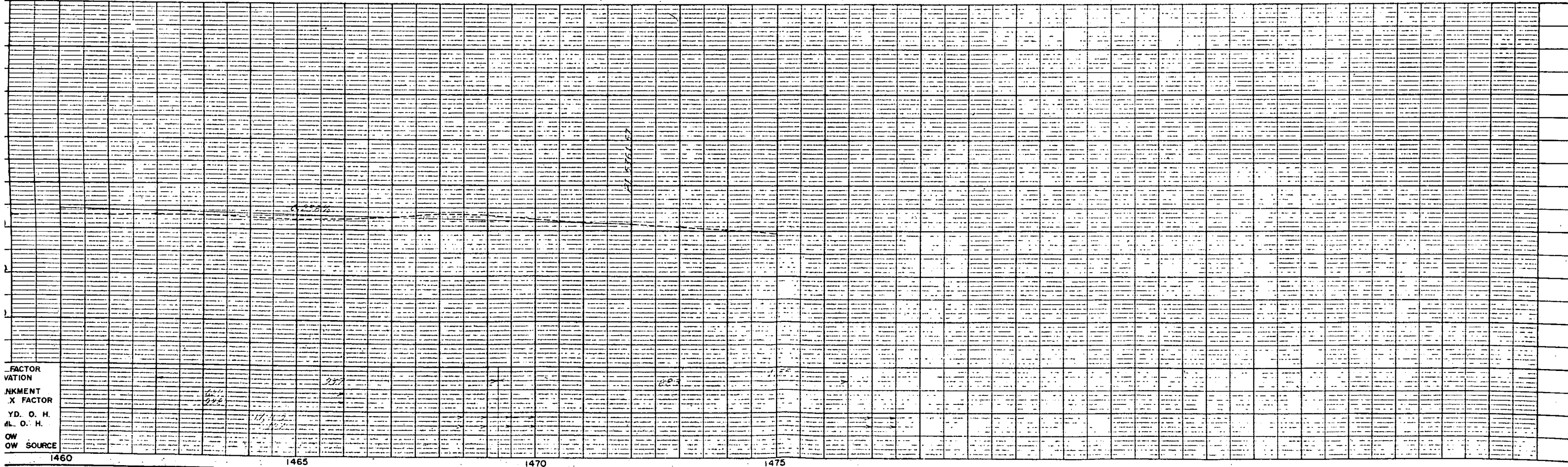
SE 1/4 Sec. 6
T.14S., R.56 W.

NE 1/4 Sec. 8
T.14S., R.56W.

All of Sec. 7
C.M. Baum



Detail Showing
Intersection



FACTOR
VARIATION
X FACTOR
YD. O. H.
AL. O. H.
SOURCE

1460

1465

1470

1475

SUB-BASE PLAN

It is estimated that Sub-Base Material for this project is available in the vicinity of the pits indicated in the following tabulation.
Estimated quantities involved in this operation are shown below. Alteration of the plan as herein outlined will be allowed only on written permission from the Department.

MATERIAL TO BE PLACED	SOURCE	AVAILABLE	THICKNESS ★ T INCHES	QUANTITY	TON MILE OVERHAUL
				CLASS 2 TONS	
1156+00 to 1232+00 1232+00 to 1248+00 1248+00 to 1292+00 1292+00 to 1294+00	Pit No. 1	Ample	7	7,220	19,691
			9	2,368	4,395
			7	4,180	5,383
			9	296	252
1294+00 to 1305+00 1305+00 to 1309+00 1309+00 to 1316+73.7 1316+73.7 to 1319+53	W 1/2 NW 1/4 Sec. 29, T. 13S, R. 56W.	Ample	7	1,045	762
			9	592	348
			14	1,911	910
			Bridge		
1319+53 to 1330+00 1330+00 to 1332+20 1332+20 to 1334+06.6 1334+06.6 to 1340+00	Route of Haul 800' to Sta. 1330+00	Ample	14	2,586	648
			14	543	94
			Bridge		
			14	1,466	417
1340+00 to 1343+00 1343+00 to 1365+51.1 Bk. 1365+59.4 Ah. to 1375+00	R= 66 without treatment	Ample	9	444	164
			7	2,139	1,307
			7	894	816
Estimated for: Correcting Irregularities Bridge Widening List of Structures				2,568 344 260	3,519 101 270
FROM PIT NO. 1 ~ SUB TOTALS ~				28,856'	39,077'
1375+00 to 1385+00 1385+00 to 1393+00 1393+00 to 1402+00 1402+00 to 1406+00	Pit No. 2	Ample	7	950	864
			12	1,800	1,330
			7	855	494
			12	900	409
1406+00 to 1416+00 1416+00 to 1418+00 1418+00 to 1441+00 1441+00 to 1471+50.8	S.W. 1/4, Sec. 32 T. 13S, R. 56W.	Ample	9	1,480	477
			7	190	40
			7	2,185	890
			7	2,900	2,690
Estimated for: Correcting Irregularities From List of Structures Appr. to Project				1,140 505 235	733 226 250
FROM PIT NO. 2 ~ SUB TOTALS ~				13,140'	8,403'
~ TOTALS ~				41,996'	47,480'

T Thickness based on Design Curve "C".

SURFACING PLAN

It is estimated that material for Gravel Surfacing for this project is available in the vicinity of the pits indicated in the following tabulation. Material for Plant Mix Asphaltic Paving is available from the Mustang Creek Pit as indicated below.
Estimated quantities involved in this operation are shown below. Alteration of the plan as herein outlined will be allowed only on written permission from the Department.

MATERIAL TO BE PLACED	SOURCE	AVAILABLE	TONS REQUIRED		TON MILE OVERHAUL	
			BASE COURSE Grading D.	PLANT MIX	BASE COURSE	PLANT MIX
1156+00 to 1316+73.7 1316+73.7 to 1319+53 1319+53 to 1330+00 1330+00 to 1332+20	Pit No. 1 W 1/2 NW 1/4 Sec. 29 T. 13S, R. 56W. R= 83 after treatment with 2% cement. Route of Haul 800' to Sta. 1330+00	Ample	10,448 Bridge 681 143	5,144 335 70	20,111 171 25	9,901 84 12
1332+20 to 1334+06.6 1334+06.6 to 1365+51.1 Bk. 1365+59.4 Ah. to 1375+00			Bridge 2,044 611	1,006	1,076 558	529
1365+59.4 Ah. to 1471+50.8				3,390		6,241
Estimated for: Bridge Widening From List of Structures Appr's. to Project Overhaul for Shoulder Roll & Ditch Paving			40 264	21 204 131	24 338	73 485 340 75
FROM PIT NO. 1 ~ SUB TOTALS ~			14,231	10,301	22,303	17,680
1375+00 to 1418+00 1418+00 to 1471+50.8 Estimated for: From List of Structures Appr. to Project	Pit No. 2 Route of Haul, 1000' to Sta. 1418+00 R= 83 after treatment v. with 2% cement.	Ample	2,795 3,480 346 225	 258 231	1,667 2,471	
FROM PIT NO. 2 ~ SUB TOTALS ~			6,846		4,627	
2% Cement to All Base Course Surfacing			422			
TOTALS (INCL. WT. OF CEMENT)			21,499	10,301	26,930	17,680

FENCING REQUIREMENTS

STATION	SIDE	REMOVE FENCE	REMOVE & REBUILD FENCE	BUILD B.W. FENCE	B.W. GATES
		LIN. FT.	LIN. FT.	LIN. FT.	EACH
1207+ 1222+	Rt. Rt.				2 1
1259+20 to 1259+70	Lt.	30	75		
1260+30 to 1260+80	Lt.	30	75		
1311+90 to 1312+40	Lt.	30	75		
1313+00 to 1313+50	Lt.	30	75		
1316+25 to 1316+74	Rt.	70			
1316+25 to 1319+90	Rt.			365	
1316+98	Lt.	35			
1319+34 to 1319+85	Rt.	65			
1319+40	Lt.				
1330+ to 1334+ (Detour)	Lt.	80			
1332+00 to 1340+70	Rt.		820		
1332+00 to 1332+30	Rt.	50		870	
1332+05 to 1332+35	Lt.	50			
1334+25	Lt.	60			
1334+40 to 1339+90	Lt.	550			
1339+90 to 1340+75	Rt.	95			
1417+56 to 1418+06	Lt.	30	75		
1418+56 to 1419+06	Lt.	30	75		
1445+00	Lt.				
TOTALS		1,235'	1,270'	1,235'	2 5

*These fences are to be built before any construction is started in this area.

TIMBER GUARD POSTS

* See Standard M-19-E for Spacing

LOCATION	SIDE	PURPOSE	SPACING FEET	NO. TO BE REMOVED	NO. RECD.
1175+00 1200+00 1235+00 1259+50	Lt.&Rt. Lt.&Rt. Lt.&Rt. Lt.&Rt.	Culvert Culvert Culvert Culvert	* * * *		2 2 2 2
1316+ 1316+06.7 to 1316+70.7	Lt.&Rt. Lt.&Rt.			10	
		Bridge	*		10
1319+ 1319+56 to 1320+20	Lt.&Rt. Lt.&Rt.			10	
		Bridge	*		10
1320+70 to 1322+20	Lt.	High Fill	50		4
1332+ 1331+56 to 1332+20	Lt.&Rt. Lt.&Rt.			10	
		Bridge	*		12
1334+ 1334+70.6 to 1334+70.6	Lt.&Rt. Lt.&Rt.			10	
		Bridge	*		2
1335+20.6 to 1339+70.6	Rt.	High Fill	50		10
1376+02 1444+00 1460+00	Lt.&Rt. Lt.&Rt. Lt.&Rt.	Culvert Culvert Culvert	* * *		2 2 2
~ TOTALS ~				40	52

R.O.W. MARKERS

LOCATION	SIDE	NO.
1259+23.2	Lt.	1
1260+33.3	Lt.	1
1260+83.3	Lt.	1
1311+94.7	Lt.	1
1312+44.7	Lt.	1
1313+74.7	Lt.	1
1313+54.7	Lt.	1
1332+00.0	Rt.	1
1340+70.0	Rt.	1
1417+56.7	Lt.	1
1418+06.6	Lt.	1
1418+56.6	Lt.	1
1419+06.5	Lt.	1
~ TOTAL ~		18