

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.
3	COLO.	F 005-3 (5)	1

RIGHT OF WAY Rev. 2-21-51 J.D.M.

COLORADO STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. F 005-3(5) STATE HIGHWAY NO. 182 (b) JEFFERSON COUNTY

CONVENTIONAL SIGNS

	TITLE PAGE	PLAN SHEET
CENTER LINE	---	---
RIGHT-OF-WAY LINE	---	---
TOWNSHIP OR RANGE LINE	T. 6 S. R. 89 W.	---
SECTION LINE	T. 7 S. R. 89 W.	---
QUARTER SECTION LINE	---	---
CITY LIMITS	---	---
RAILROAD	---	---
BARBED WIRE FENCE	---	---
WOVEN WIRE-COMBINATION FENCE	---	---
TELEPHONE & TELEGRAPH LINE	---	---
POWER LINE	---	---
PRESENT ROAD (PLAN SHEETS)	---	---
WATER LINE	---	---

INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
2	TABULATION OF PROPERTIES
3-13	PLAN & PROFILE SHEETS
	SHOWING RIGHT OF WAY
14-15	OWNERSHIP MAP

TABULATION OF ACCESS RIGHTS

	FROM	TO
LEFT OR SOUTHERLY SIDE	STA. 36+81	STA. 30+70.1
	30+24.3	15+23.2
	41+76.3	95+22.8
	111+06.7	123+50.1
	124+02.8	130+20
	140+00	159+50
RIGHT OR NORTHERLY SIDE	36+81	32+08.3
	31+62.5	21+60
	45+24	93+57.2
	109+53.3	130+20
	135+20	157+90

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 } 21,484.6 FT. = 4.069 MILES
NET LENGTH OF PROJECT }

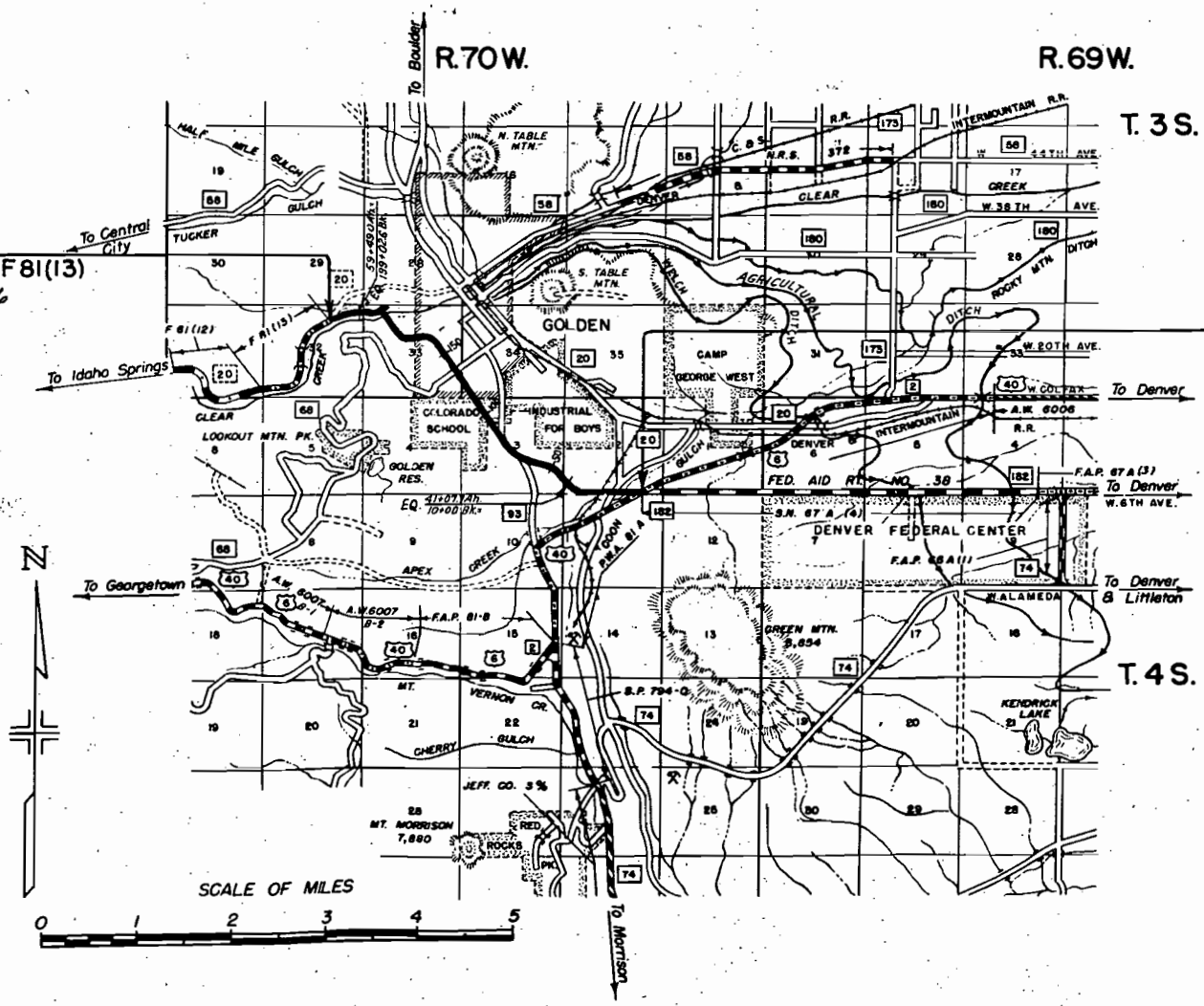
RIGHT OF WAY

OPENINGS

	STATION	SIDE	WIDTH
R.R. CROSSING	30+70.1 TO 30+24.3	SOUTH	
R.R. CROSSING	32+08.3 TO 31+62.5	NORTH	
PUBLIC ROAD	63+80 TO 64+70	SOUTH	
PRIVATE ROAD	92+70		
PUBLIC ROAD	134+29	NORTH & SOUTH	

STA. 76+300 =
END F003-3(5) = BEG. F81(13)
M.P. 270.8 SH#6

STA. 50+14 BEG. F005-3(5) =
END FAP SN 67-A(4)
M.P. 275.1 SH#6



R.O.W. TABULATION OF PROPERTIES IN JEFFERSON

COUNTY S.H. No. 182 PROJ. F005-3(5)

Rev. 9-18-50 T.L.K.	FED. ROAD DIV. NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
Rev. 11-14-50 T.L.K.	9	COLO.	F 005-3(5)	2	
Rev. 1-28-55 R.E.C.					
Rev. 9-8-59 CEB.					

RIGHT OF WAY

Rev. 5-9-50 T.L.K.
 Rev. 5-12-50 T.L.K.
 Rev. 6-6-50 JDM
 Rev. 7-10-50 T.L.K.
 Rev. 7-27-50 T.L.K.

PARCEL NO.	OWNER	ADDRESS	LOCATION	AREA IN ACRES			REMARKS	NO.
				TOTAL LAND IN TRACT	PARCEL	TO BE ACQUIRED		
			T. 4 S., R. 70 W.					
1-A	OMITTED							
1-B	OMITTED							
2-A	ALBERT & KATHERINE BACHMAN	ROUTE 3, GOLDEN, COLO.	N.E. 1/4 OF N.W. 1/4 SEC. 11	79.21	3.109	2.689		
2-B	ALBERT & KATHERINE BACHMAN	ROUTE 3, GOLDEN, COLO.	N. 1/2 OF N.W. 1/4 SEC. 11	79.21	7.735	7.735		
3	STATE OF COLORADO	DENVER, COLO.	S.W. 1/4 OF S.W. 1/4 SEC. 2	240.0	5.764	5.764		
4	STANDARD FIRE BRICK CO.	% FIRST NATIONAL BANK, PUEBLO, COLO.	E. 1/2 SEC. 3	340.0	27.030	23.013		
5	STATE OF COLORADO	DENVER, COLO.	N. 1/2 OF N.W. 1/4 SEC. 3 T. 3 S., R. 70 W.	260.0	9.088	9.088		
5 Rev. 2	JEFFERSON CLAY & INV. CO.	% W. G. PARFET, GOLDEN, COLO.	W. 1/2 OF SW. 1/4 SEC. 34	160.0	7.975	7.975		
6A	JEFFERSON CLAY & INV. CO.	% W. G. PARFET, GOLDEN, COLO.	S.W. 1/4 SEC. 34		8.212	8.212		
Rev. 2	COLORADO SCHOOL OF MINES	GOLDEN, COLO.	E. 1/2 OF SE. 1/4 SEC. 33	47.4	0.022	0.022		
8A	DELETED							
Rev. 2	NILS & CHARLENE CHRISTIANSEN	ROUTE 3, GOLDEN, COLO.	E. 1/2 OF S.E. 1/4 SEC. 33	9.5	3.220	3.220		
8B	NILS & CHARLENE CHRISTIANSEN	ROUTE 3, GOLDEN, COLO.	S.E. 1/4 SEC. 33		0.047	0.047		
Rev. 2	NELLIE E. JONES	ROUTE 3, GOLDEN, COLO.	N.E. 1/4 OF S.E. 1/4 SEC. 33	0.5	0.235	0.235		
10A	COLORADO SCHOOL OF MINES	GOLDEN, COLO.	S.E. 1/4 SEC. 33		0.921	0.921		
Rev. 2	COLORADO SCHOOL OF MINES	GOLDEN, COLO.	N.E. 1/4 OF S.E. 1/4 SEC. 33	5.6	2.219	1.632		
10B	COLORADO SCHOOL OF MINES	GOLDEN, COLO.	S.E. 1/4 SEC. 33		0.815	0.815		
11 Rev.	JEFFERSON CLAY & INV. CO.	% W. G. PARFET GOLDEN, COLO.	N.W. 1/4 OF S.W. 1/4 SEC. 34	160.0	1.034	0.338		
11A Rev.	JEFFERSON CLAY & INV. CO.	% W. G. PARFET GOLDEN, COLO.	N.W. 1/4 OF S.W. 1/4 SEC. 34		1.361	1.361		
12 Rev.	THE RUBY CLAY CO.	GOLDEN, COLO.	E. 1/2, SEC. 33	80.0	14.858	14.346		
12A Rev.	DELETED - COURT SUIT DISMISSED							
13 Rev. 2	COLORADO SCHOOL OF MINES	GOLDEN, COLO.	N.W. 1/4 SEC. 33	77.0	8.279	8.279		
2 B Rev.	COLORADO SCHOOL OF MINES	GOLDEN, COLO.	N.E. 1/4 SEC. 33		2.620	2.620		
14A Rev.	FRANCES TOWNSEND BARBES	1391 ADAMS ST., CHEHALIS, WASH.	N.W. 1/4, SEC. 33	80.0	10.878	10.878		
14-B	FRANCES TOWNSEND BARBES	1391 ADAMS ST., CHEHALIS, WASH.	N.W. 1/4, SEC. 33	80.0	0.180	0.180		
15 Rev.	JOHN BERTRAND	4295 YORK ST., DENVER, COLO.	N.E. 1/4 OF N.E. 1/4, SEC. 32	14.4	3.545	3.545		
16 Rev.	ERNEST A. RAMSTETTER	ROUTE 1, BOX 147, GOLDEN, COLO.	N.E. 1/4 SEC. 32	625.6	4.050	4.050		
17	THE RUBY CLAY CO.	GOLDEN, COLO.	S. 1/2 OF S.W. 1/4 SEC. 28	79.0	7.048	7.048		
17A	THE RUBY CLAY CO.	GOLDEN, COLO.	N.E. 1/4 N.W. 1/4 SEC. 33		0.910	0.910		

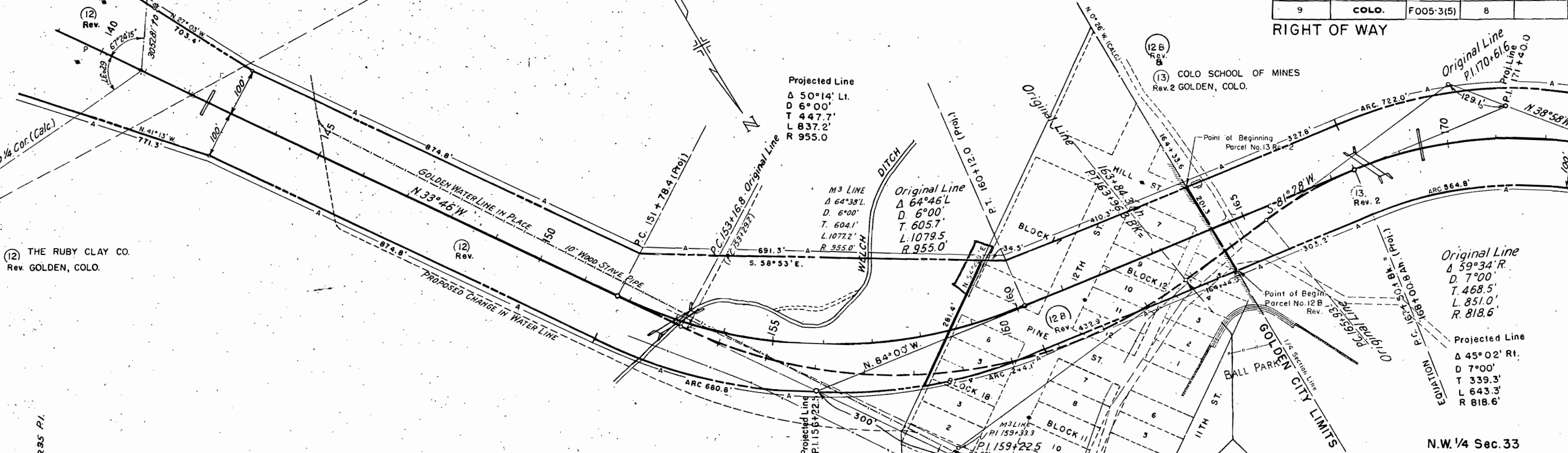
S.E. 1/4 Sec. 33

N.E. 1/4 Sec. 33
T. 3 S., R. 70 W.

REV. 5-9-50 T.L.K.
REV. 9-18-50 T.L.K.

REV. 9-9-59 ACCESS C.E.B.				
PED. ROAD DIV. NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F005-3(5)	8	

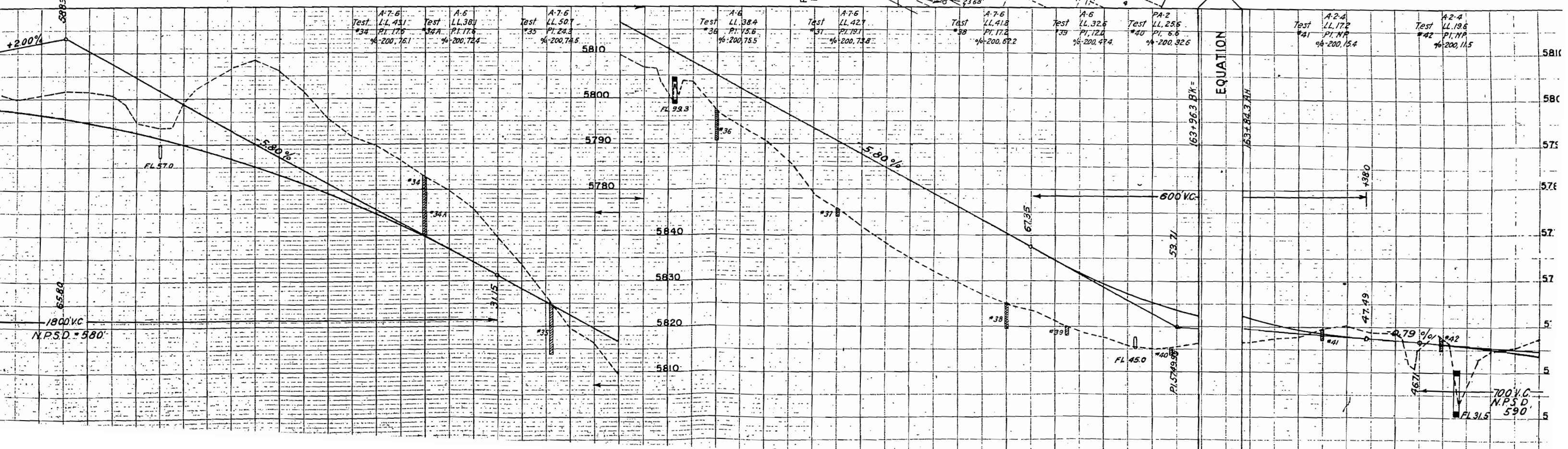
RIGHT OF WAY



(12) THE RUBY CLAY CO.
REV. GOLDEN, COLO.

(13) COLO SCHOOL OF MINES
REV. 2 GOLDEN, COLO.

N.W. 1/4 Sec. 33

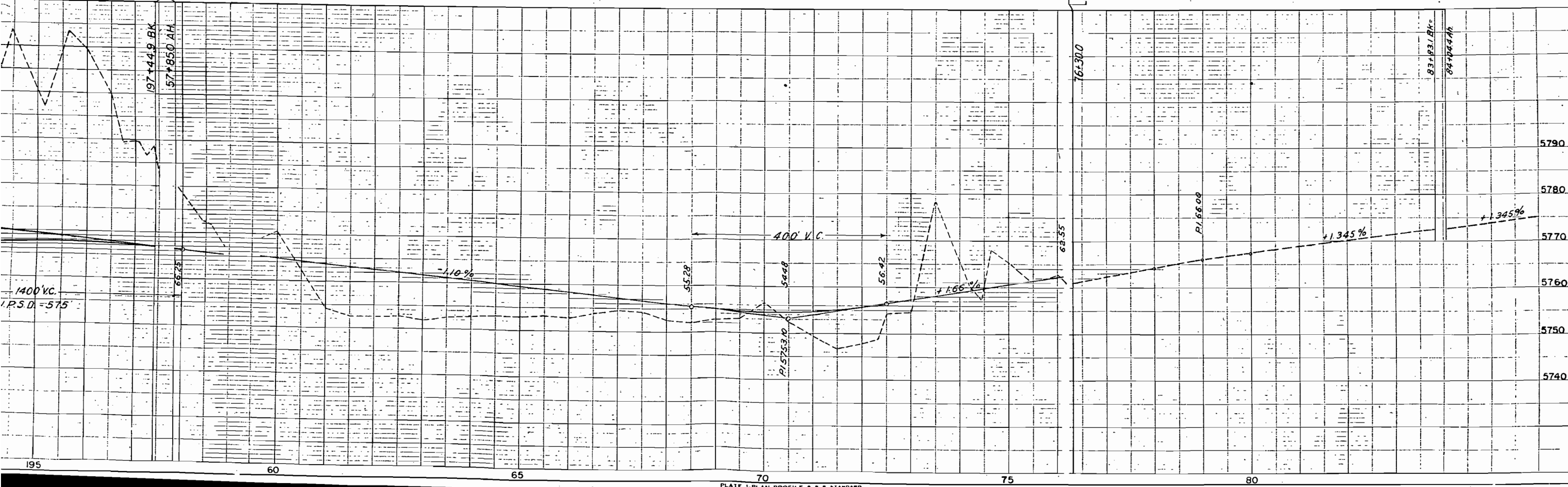
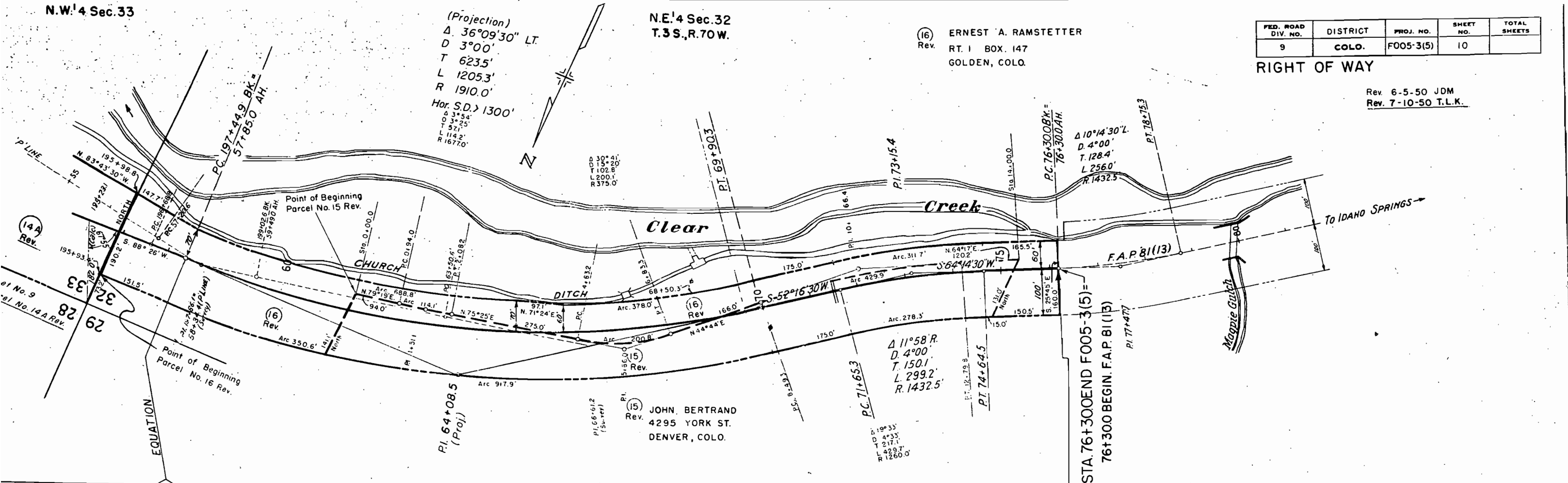


(16) Rev. ERNEST A. RAMSTETTER
RT. 1 BOX. 147
GOLDEN, COLO.

FED. ROAD DIV. NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	FO05-3(5)	10	

RIGHT OF WAY

Rev. 6-5-50 JDM
Rev. 7-10-50 T.L.K.

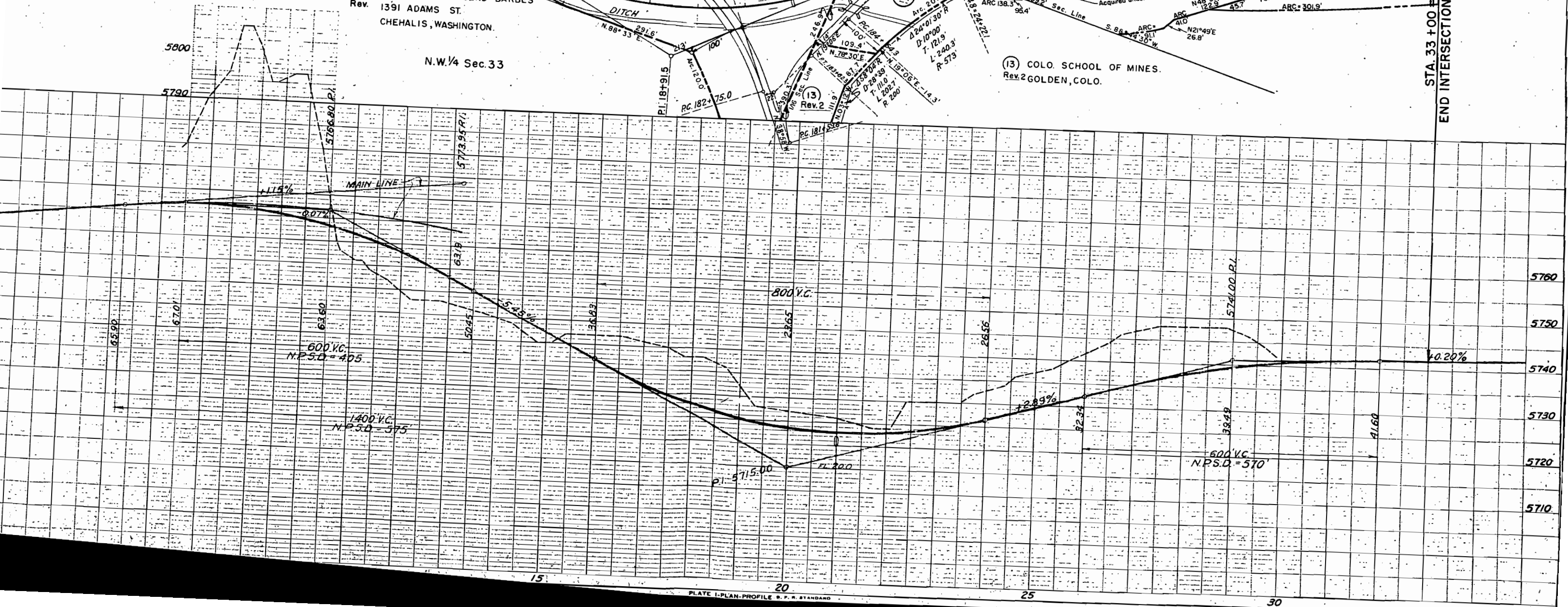
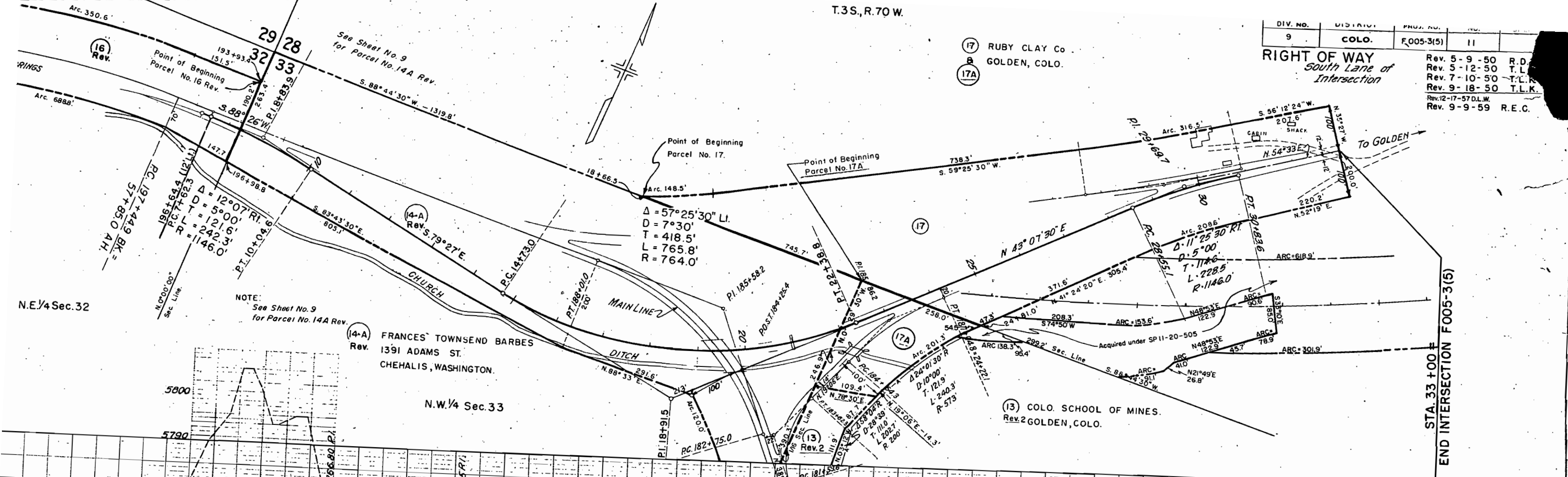


T.3S., R.70 W.

DIV. NO.	DISTRICT	PROJ. NO.	NO.
9	COLO.	F.005-3(5)	11

RIGHT OF WAY
South Lane of
Intersection

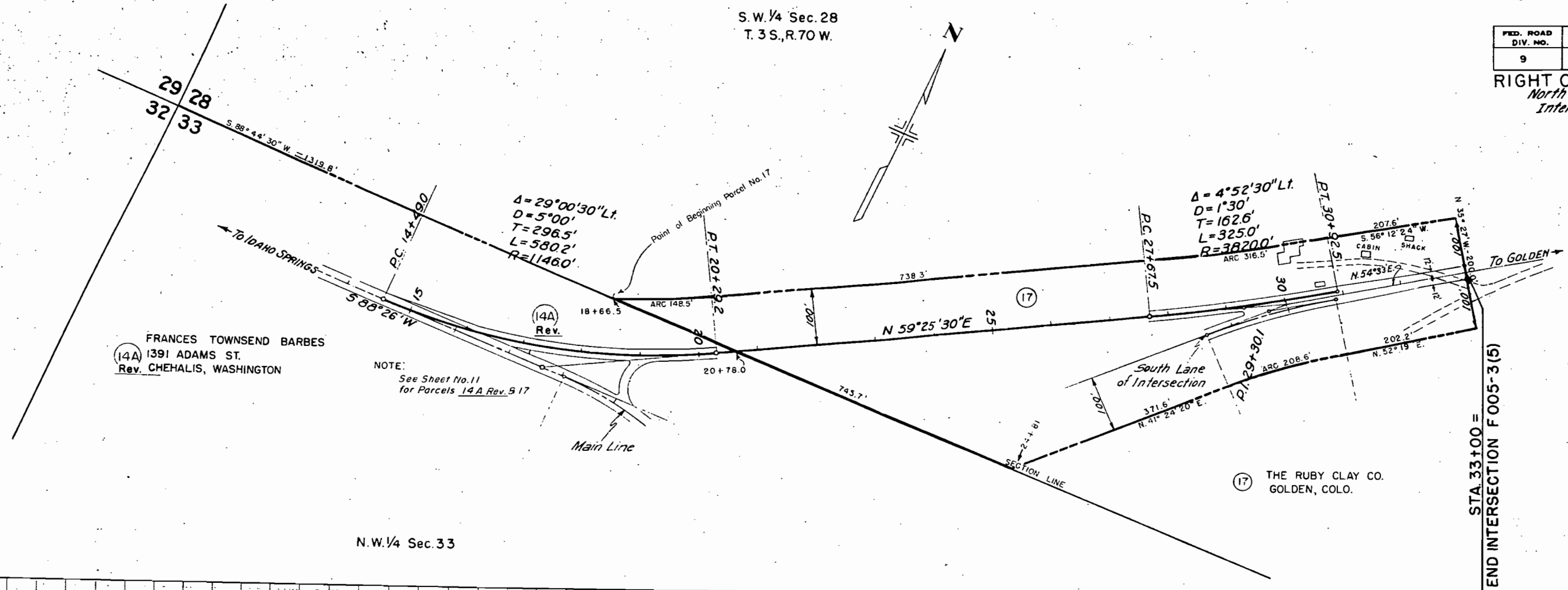
Rev. 5-9-50 R.D.
Rev. 5-12-50 T.L.
Rev. 7-10-50 T.L.
Rev. 9-18-50 T.L.K.
Rev. 12-17-57 D.L.W.
Rev. 9-9-59 R.E.C.



S.W. 1/4 Sec. 28
T. 3 S., R. 70 W.

FED. ROAD DIV. NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F005-3(5)	12	

RIGHT OF WAY
North Lane of
Intersection
Rev. 5-12-50 T.L.K.
Rev. 7-10-50 T.L.K.

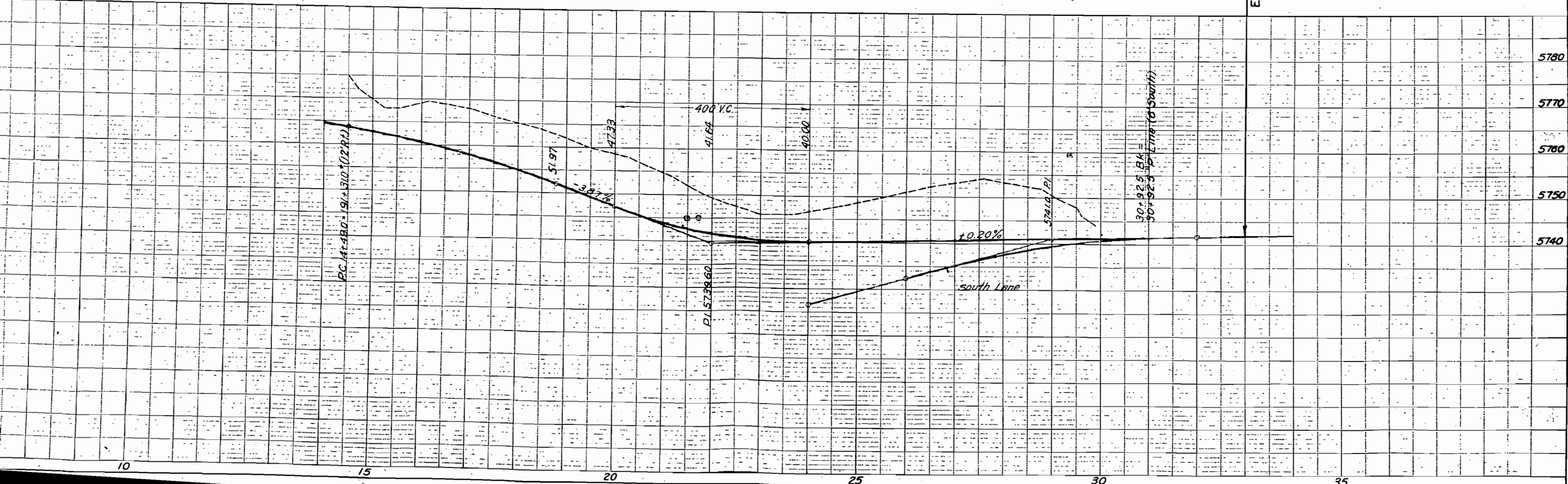


(14A) FRANCES TOWNSEND BARBES
1391 ADAMS ST.
Rev. CHEHALIS, WASHINGTON

NOTE:
See Sheet No. 11
for Parcels 14 A Rev. 5 17

(17) THE RUBY CLAY CO.
GOLDEN, COLO.

N.W. 1/4 Sec. 33



S.W. 1/4 SEC. 34

COLO SCHOOL OF MINES (10A) & (10B)
GOLDEN COLO.
Point of Beginning Parcel No. 11A-Rev

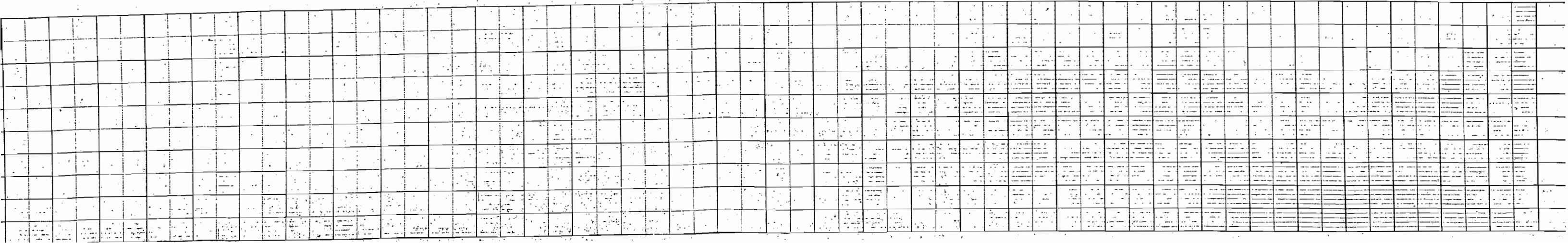
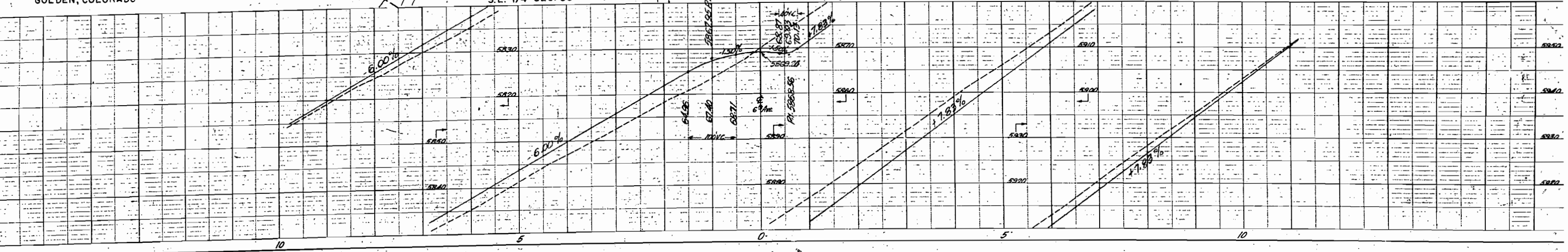
FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOT. SHEETS
3	COLO.	F 005-3 (5)	13	

RIGHT OF WAY
Rev. 5-9-50 T.L.K.
Rev. 6-2-50 J.D.M.
Rev. 1-28-55 R.E.C.

(11A) Rev.
JEFFERSON CLAY & INV. CO.
% W.J. PARFET
GOLDEN, COLORADO

(12) Rev.
RUBY CLAY Co.
GOLDEN COLO.
Point of Beginning
Parcels 11 Rev. & 12 Rev.
S.E. 1/4 SEC. 33

(12A) DELETED
Rev. COURT SUIT DISMISSED



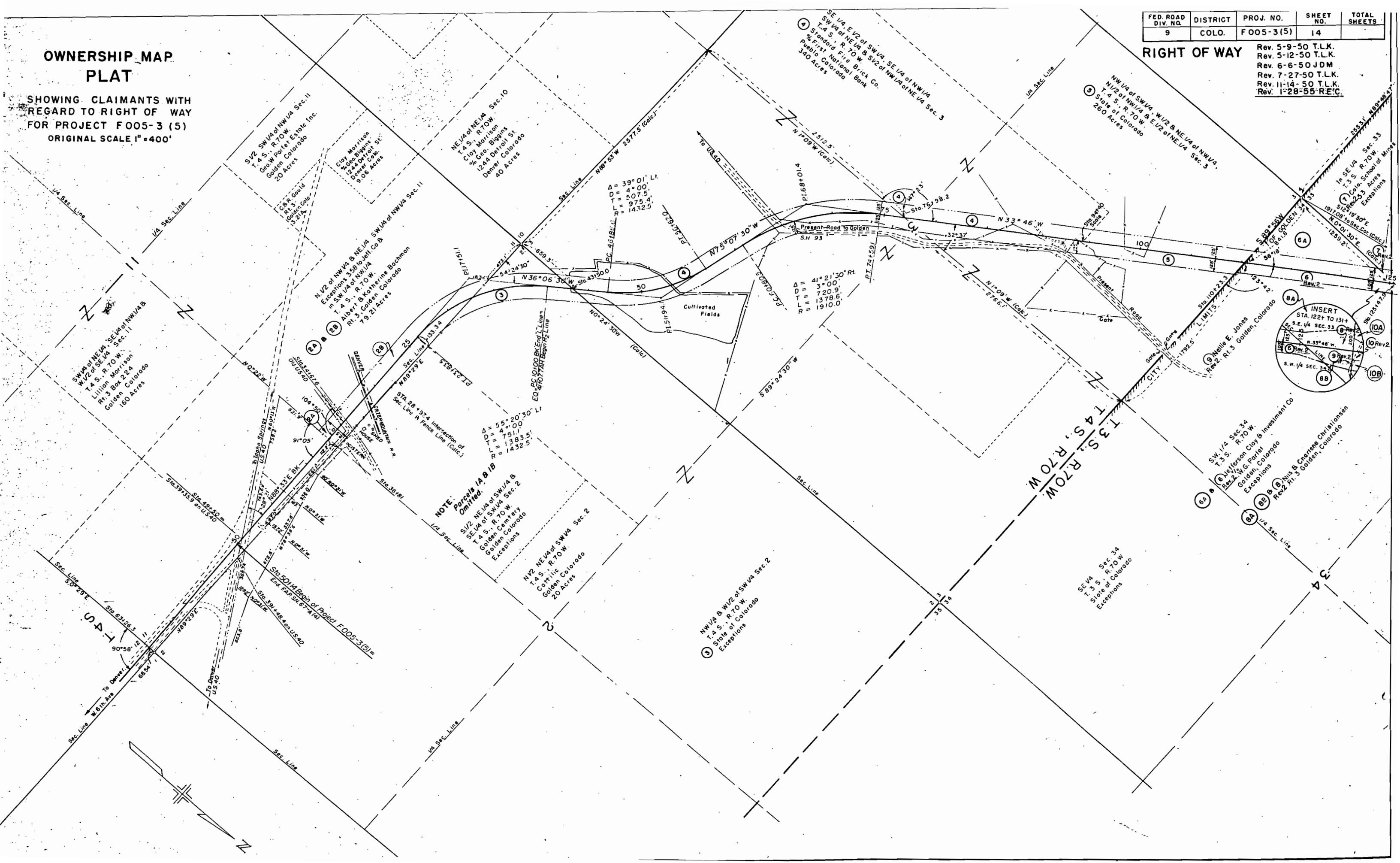
OWNERSHIP MAP PLAT

SHOWING CLAIMANTS WITH
REGARD TO RIGHT OF WAY
FOR PROJECT F005-3 (5)
ORIGINAL SCALE 1" = 400'

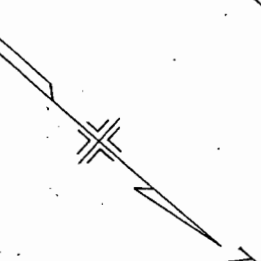
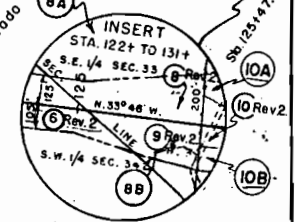
FED. ROAD DIV. NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F005-3 (5)	14	

RIGHT OF WAY

Rev. 5-9-50 T.L.K.
Rev. 5-12-50 T.L.K.
Rev. 6-6-50 JDM
Rev. 7-27-50 T.L.K.
Rev. 11-14-50 T.L.K.
Rev. 1-28-55 R.E.C.



NOTE:
Parcels 1A & 1B
Omitted.
SW 1/4 of SW 1/4 &
SE 1/4 of SW 1/4 Sec. 2
T. 4 S., R. 70 W.
Golden Cemetery
Golden Colorado
Exceptions

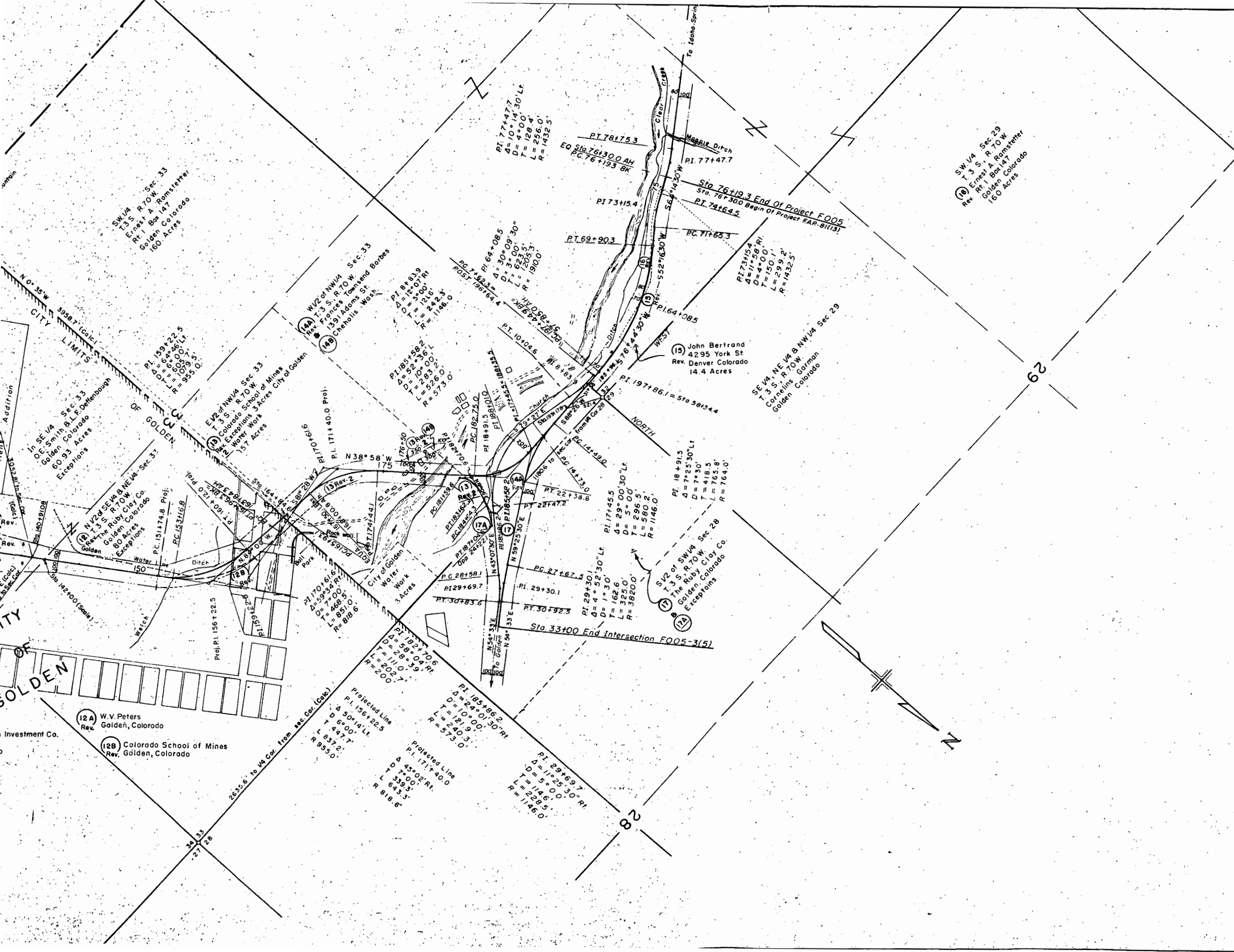


FED. ROAD DIV. NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F 005-3(5)	15	

RIGHT OF WAY Rev. 5-9-50 T.L.K.
 Rev. 6-6-50 JDM
 Rev. 7-10-50 T.L.K.
 Rev. 9-18-50 T.L.K.
 Rev. 1-28-55 R.E.C.

OWNERSHIP MAP PLAT

SHOWING CLAIMANTS WITH REGARD TO RIGHT OF WAY FOR PROJECT F005-3(5)
 ORIGINAL SCALE 1" = 400'



FED. ROAD DIV. NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F 005-3(5)	2	

Rev. 5-19-50 E.A.R. Typ. Sec. for Underdrain
 Rev. 9-12-50 E.A.R. Cure Details
 Rev. Slope 1st Typ. Sect. JAN-9-44-50
 Rev. Typical Section - JKW-9-21-50

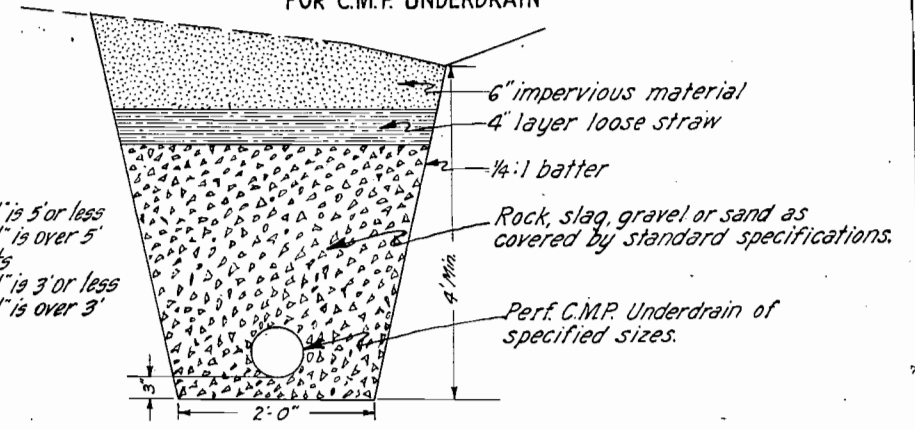
TYPICAL SECTIONS OF IMPROVEMENT

NOTE:
 See Standard M-2 DM for details of cut slope treatment flaring and widening for guard fence and/or marker posts.

★ TRANSITIONS BETWEEN SECTIONS
 ✓ Sta. 135+00 to Sta. 143+00: Sec. A to B
 ✓ Sta. 162+00 to Sta. 164+98.0: Sec. B to C
 ✓ Sta. 57+85.0 Alt. to Sta. 60+85.0: Sec. C to D

▲ FUTURE CONSTRUCTION

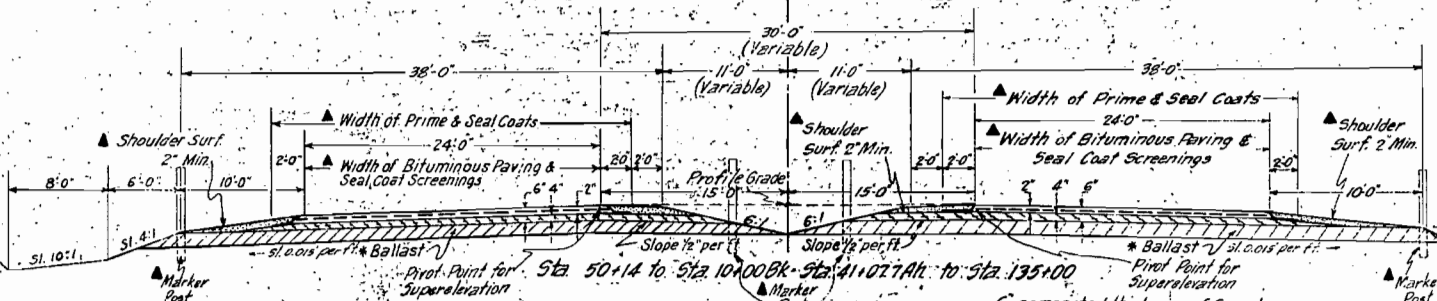
TYPICAL SECTION OF TRENCH FOR C.M.P. UNDERDRAIN



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'

TYPICAL SECTION FOR DIVIDED HIGHWAY

★ SECTION A

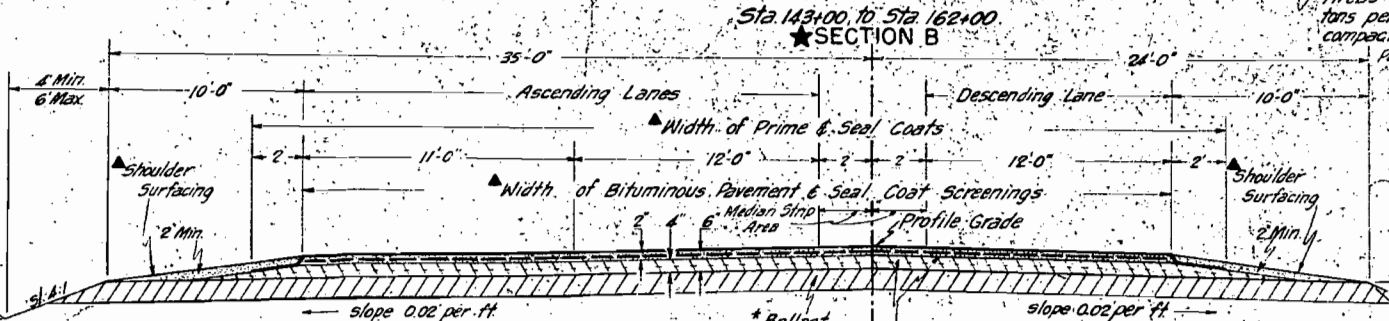


Excavation or Borrow below 4:1 and/or 10:1 will not be permitted.
 The depth and width of the side ditch may be varied where necessary in order to provide proper drainage and/or entrance to drainage structures.

* The upper portion of subgrade is to be constructed of Ballast Material at locations designated in Ballast material tabulation. Estimated quantities involved in this operation and thickness of material required are tabulated on sheet No. 5.

6" compacted thickness of Gravel or Crushed Rock Surfacing to be placed in two (2) courses:
 Approximate 2" top course to be placed at the rate of 54 tons per 100 lin. ft. of roadway.
 Approximate 4" bottom course surfacing to be placed at the rate of 19 tons per 100 lin. ft. of roadway.
 Approximate 2" bottom course surfacing for shoulder Areas to be placed at the rate of 29 tons per 100 lin. ft. of roadway and compacted after placement of Bituminous Pavement.

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'

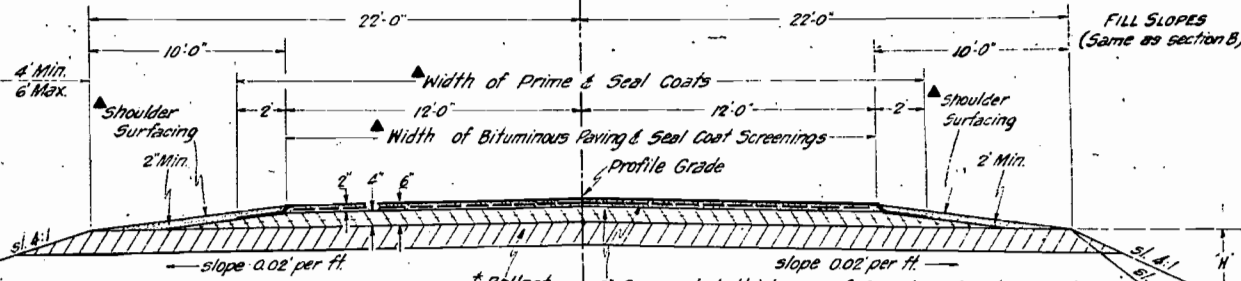


Excavation or Borrow below 4:1 and/or 10:1 will not be permitted.
 The depth and width of the side ditch may be varied where necessary in order to provide proper drainage and/or entrance to drainage structures.

6" Compacted thickness of Gravel or Crushed Rock Surfacing to be placed in two (2) courses:
 Approximate 2" top course to be placed at the rate of 44 tons per 100 lin. ft. of roadway.
 Approximate 4" bottom course to be placed at the rate of 101 tons per 100 lin. ft. of roadway.
 Approximate 2" bottom course surfacing for Shoulder Areas to be placed at the rate of 19 tons per 100 lin. ft. of roadway and compacted after placement of Bituminous Pavement.

TYPICAL SECTION FOR DIVIDED HIGHWAY

★ SECTION C

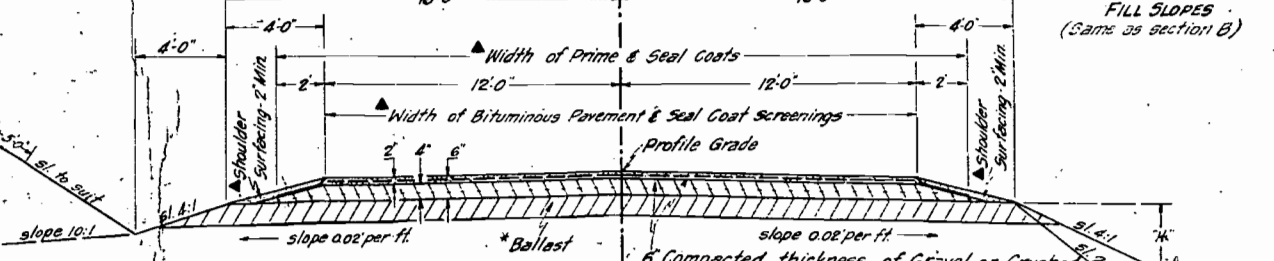


Excavation or Borrow below 4:1 and/or 10:1 will not be permitted.
 The depth and width of the side ditch may be varied where necessary in order to provide proper drainage and/or entrance to drainage structures.

6" Compacted thickness of Gravel or Crushed Rock Surfacing to be placed in two (2) courses:
 Approximate 2" top course to be placed at the rate of 27 tons per 100 lin. ft. of roadway.
 Approximate 4" bottom course to be placed at the rate of 68 tons per 100 lin. ft. of roadway.
 Approximate 2" bottom course surfacing for Shoulder Areas to be placed at the rate of 19 tons per 100 lin. ft. of roadway and compacted after placement of Bituminous Pavement.

TYPICAL SECTION FOR DIVIDED HIGHWAY

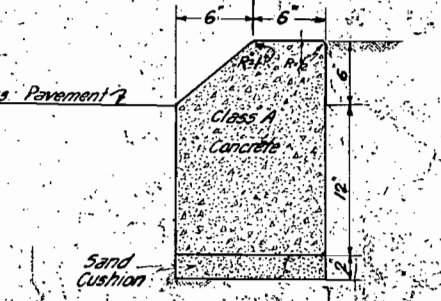
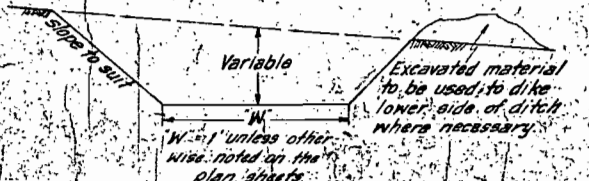
★ SECTION D



Excavation or Borrow below 4:1 and/or 10:1 will not be permitted.
 The depth and width of the side ditch may be varied where necessary in order to provide proper drainage and/or entrance to drainage structures.

6" Compacted thickness of Gravel or Crushed Rock Surfacing to be placed in two (2) courses:
 Approximate 2" top course to be placed at the rate of 27 tons per 100 lin. ft. of roadway.
 Approximate 4" bottom course to be placed at the rate of 59 tons per 100 lin. ft. of roadway.
 Approximate 2" bottom course surfacing for Shoulder Areas to be placed at the rate of 8 tons per 100 lin. ft. of roadway and compacted after placement of Bituminous Pavement.

TYPICAL SECTION FOR DITCHES & CHANNEL IMPROVEMENTS



DETAILS OF CONCRETE CURB

GENERAL NOTES

✓ This Project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department adopted January 1, 1948.

✓ All quantities on preliminary plans are to be considered approximate only.

✓ All roadway excavation required to construct this Project is to be obtained and used as indicated on the plans. Quantities involved beyond the limits of the ditches shown on the Typical Cross Section, either noted as "Borrow" on the Plans or as "Embankments" in the List of Structures, are to be classified and paid for as "Unclassified Excavation". These quantities are to be stated as part of the original excavation at locations indicated on the Plans. Any slope stakes beyond the limits of the Typical Section as shown, are subject to change by the Engineer to fit conditions actually met in construction.

✓ All poles encroaching on construction are to be moved by the owners.

✓ All corrugated Metal Pipe Cross Culverts shall be laid with Metal Aprons on each end unless otherwise noted on the plans.

✓ All concrete used on this project shall be "Air-Entrained Concrete".

✓ Culverts projecting from embankments shall be covered with approximately 6 inches of embankment material in such a manner that a minimum of pipe shall be exposed in the completed work. This shall be accomplished by warping embankment slopes around and adjacent to the culvert.

✓ Except as otherwise noted on the plans, payment for overhaul will be based on the measurement along the centerline of the project.

✓ Right of Way fences, including line posts, shall be constructed approximately six (6) inches inside the boundary of the Highway Right of Way as shown on the plans.

✓ Approximate location and quantities involved in construction of intercepting ditches are tabulated on summary of earthwork quantities sheet.

✓ All curves are to be superelevated and widened as provided by the Standard Superelevation sheets included with the plans, except as otherwise noted on the plans.

✓ Curves on this project over 6 degrees shall be provided with the superelevation shown on the Standard Superelevation sheet for a 6 degree curve.

✓ The force-account item, "Clearing of Building Sites, including Removal of Foundations 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 stations; 131+ to 136+; 176+ to 178+ & 164+

✓ The Detour for this project lies along the present traveled road. At all places on the project where the new work lies along the present traveled road, the Contractor shall, at his own expense, prosecute construction in such manner that traffic may readily pass over the road. Also the Contractor shall maintain in safe condition and at his own expense, all temporary approaches to and crossings of intersecting roads.

✓ It is estimated that the old road is to be obliterated at the following stations; 35+ to 47+; 66+ to 91+

✓ If excavation operations develop material that will stand on slopes steeper than slope stake lines, the Department reserves the right to change cut slopes during the progress of such excavations.

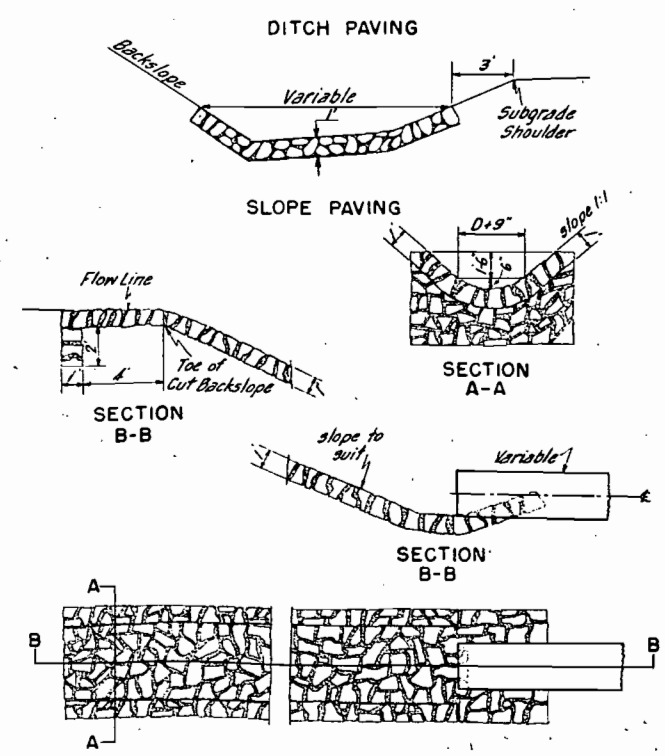
R.O.W. MARKERS

	STATION	SIDE	NUMBER	
EAST SURVEY	36+00	Lt. & Rt.	2	
	10+00 Bk = 41+07.7 Ah	Lt. & Rt.	2	
	66+00	Lt. & Rt.	2	
	90+00	Lt. & Rt.	2	
TOTAL OUTSIDE GOLDEN 76' RDWY.			8	
WEST SURVEY	115+00	Lt. & Rt.	2	
	TOTAL INSIDE GOLDEN 76' RDWY.			2
	143+00	Lt. & Rt.	2	
	TOTAL INSIDE GOLDEN 59' RDWY.			2
	167+50	Lt. & Rt.	2	
	197+44.9 Bk =	Lt. & Rt.	2	
TOTAL OUTSIDE GOLDEN 44' RDWY.			4	

TABULATION OF LENGTH AND DESIGN DATA

STATION	DESCRIPTION	ROADWAY		MAJOR STRUCTURES
		WIDTH	LIN. FT.	
OUTSIDE GOLDEN				
✓ 50+14	Beg. F005-3(5) = Beg. F 67 (7)	✓ 76'	1402.5	
✓ 36+11.5	Double 10'x10' C.B.C.			23.0
✓ 35+88.5		✓ 76'	2588.5	
✓ 10+00 Bk =	Equation			
✓ 41+07.7 Ah.		✓ 76'	4786.0	
✓ 88+93.7	Double 10'x8' C.B.C.			32.5
✓ 89+26.2		✓ 76'	2097.1	
✓ 110+23.2	City Limits	✓ 76'	2476.7	
INSIDE GOLDEN				
✓ 135+00		✓ 59'	2700.0	
✓ 162+00		✓ 44'	233.6	
✓ 164+33.6	City Limits			
OUTSIDE GOLDEN				
✓ 167+50.1 Bk =	Equation	✓ 44'	316.5	
✓ 168+00.8 Ah		✓ 44'	1099.2	
✓ 179+00	Bridge			204.5
✓ 181+04.5		✓ 44'	265.8	
✓ 183+70.3	Overpass			202.3
✓ 185+72.6		✓ 44'	1172.3	
✓ 197+44.9 Bk =	Equation			
✓ 57+85.0 Ah.		✓ 32'	1845.0	
✓ 76+30.0	End F005-3(5) = Beg. F 81 (13)			
TOTALS			20983.2	462.3

DETAILS OF GROUTED RUBBLE SLOPE AND DITCH PAVING



	LIN. FT.	MILES
SUMMARY		
F 005-3(5) OUTSIDE GOLDEN		
76' Roadway	10874.1	2.060
44' Roadway	2853.8	0.540
32' Roadway	1845.0	0.350
4 Major Structures	462.3	0.088
F 005-3(5) INSIDE GOLDEN		
76' Roadway	2476.7	0.469
59' Roadway	2700.0	0.511
44' Roadway	233.6	0.044
TOTAL F 005-3(5)	21445.5	4.062
DESIGN DATA		
Maximum Degree of Curve		10°00'
Maximum Grade		5.83%
Minimum N.P.S.D. - horizontal		430
Minimum N.P.S.D. - vertical		570'
Maximum Design Speed		50 MPH