

MSI Separator Sheet



MSI2010

00015(3)

SH 43

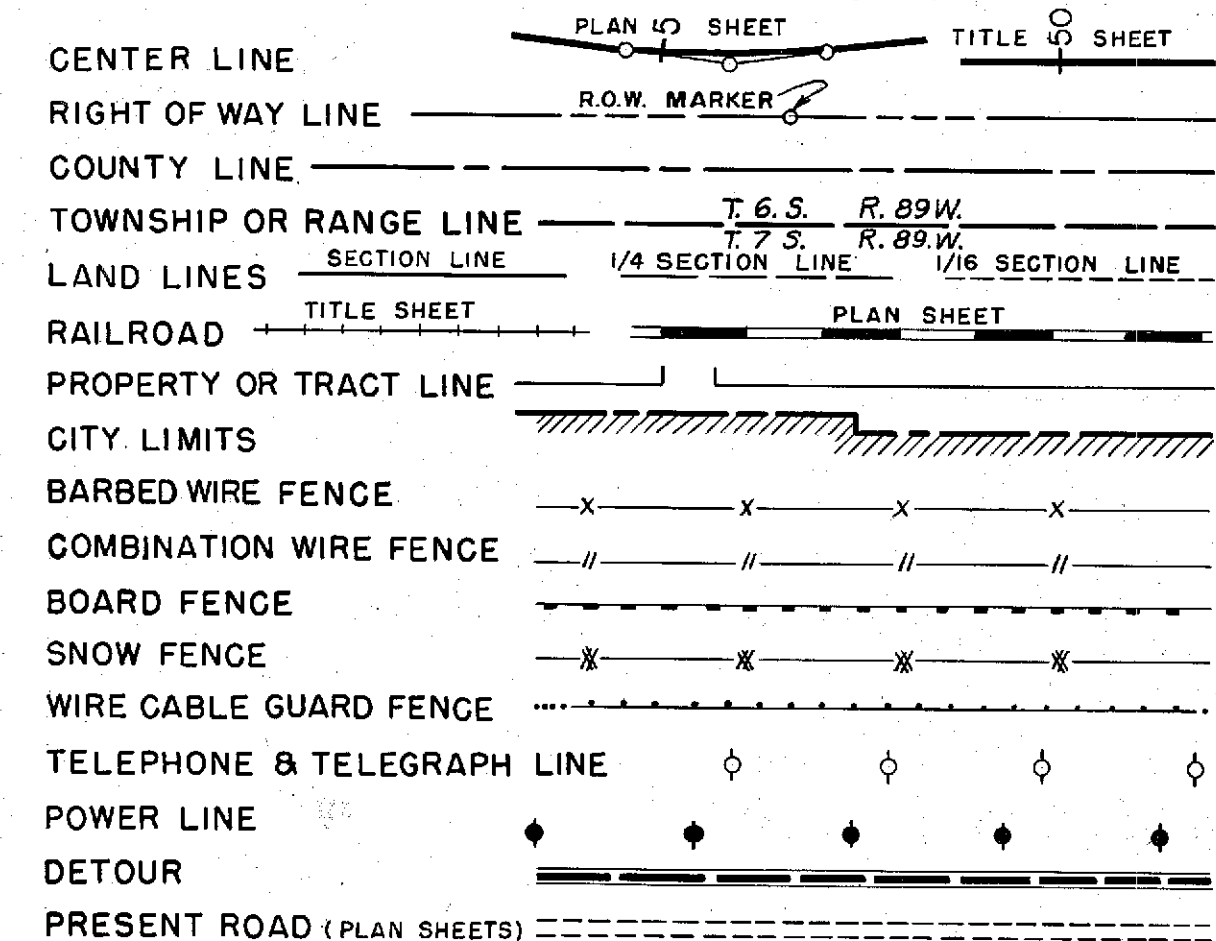
8/12/54

(H)

COLORADO
DEPARTMENT OF HIGHWAYS
PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. S0015 (3)
STATE HIGHWAY NO. 63
LOGAN COUNTY

FEDERAL ROAD DIVISION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	S0015 (3)	1	

CONVENTIONAL SIGNS



- INDEX OF SHEETS
- SHEET NO. 1. SKETCH MAP, TITLE PAGE & TABULATION OF LENGTH & DESIGN
2. TYPICAL SECTION, GENERAL NOTES & SUMMARY OF APPROX. QUANTITIES
3. SURFACING PLAN, SUB-BASE PLAN & TIMBER GUARD POSTS
4. PIT LOCATIONS
5. LIST OF STRUCTURES
6. STANDARD METHODS FOR SUPERELEVATION & WIDENING OF CURVES
7. STANDARD SIDE APPROACH ROADS, FLARING, CUT SLOPE TREATMENT & WIDENING AT BRIDGES & AT CREST OF GRADES
8. STANDARD MARKER POSTS
9. STANDARD TIMBER GUARD POSTS
10. STANDARD WIRE FENCE WITH METAL POSTS
11. STANDARD ROADWAY CONSTRUCTION TRAFFIC SIGNS
12-23. ALIGNMENT PLAN & PROFILE
24-43. CROSS SECTIONS
44. SUMMARY OF EARTHWORK QUANTITIES

M-1-C
M-2-EM
M-7-C
M-19-D
M-27-C
M-29-A

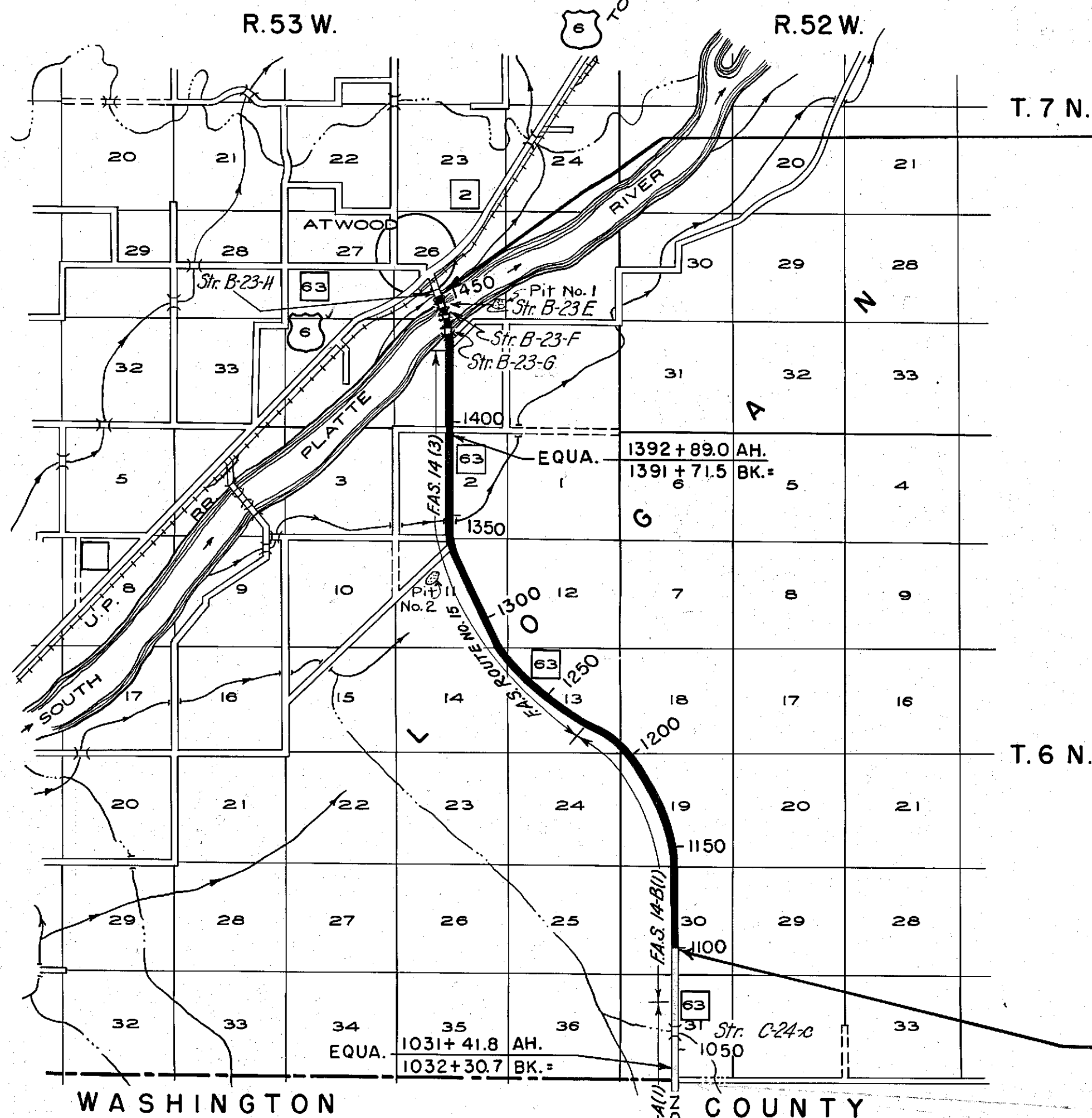
SCALES OF ORIGINAL DRAWINGS

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 35,930.5 FT. = 6.805 MI.
NET LENGTH OF PROJECT 34,915.0 FT. = 6.613 MI.

TABULATION OF LENGTH AND DESIGN DATA

STATION	ROADWAY	NO WORK SECTION	
	LIN. FT.	LIN. FT.	
1030+36.0 BEGIN S0015 (3) = Sta. 100+00 on F.A.S. 14-B (1) = 100+00 on F.A.S. 14-B (1)	1947		
1032+130.7 BK. = 1031+41.8 AH. EQUA. 1032+00	2,143.2		
1032+00		27.5	
1100+00 BEGIN S0015 (3) = Sta. 1100+00 on F.A.S. 14-B (1) = 1100+00 on F.A.S. 14-B (1)	12,500.0		
1225+00 END F.A.S. 14-B (1) = BEG. F.A.S. 14 (3)	16,671.5		
1391+71.5 BK. EQUA. 1392+89.0 AH. EQUA. 1431+87.0 END F.A.S. 14 (3) = Str. No. B-23-G BRIDGE	3,898.0	438.5	
1436+25.5	7428		
1443+68.3 Str. No. B-23-F BRIDGE	213.7	368.7	
1447+37 1449+50.7 Str. No. B-23-E BRIDGE	208.3		
1451+59.0	889.0		
1460+48.0 END S0015 (3) = South Abut. of Bridge (Str. No. B-23-H) = 260' ± So. of Beginning of Fed. Aid Secondary Route No. 15			
TOTALS	34,915.0	1,015.5	
SUMMARY	LIN. FT.	MILES	
	34,915.0	6.613	
	1,015.5	0.192	
	34,915.0	6.613	
ROADWAY S0015 (3)	34,915.0	6.613	
NO WORK SECTION	1,015.5	0.192	
NET LENGTH	34,915.0	6.613	
GROSS LENGTH	35,930.5	6.805	
DESIGN DATA	Maximum Degree of Curve	3°30'	
	Maximum Grade	3.15 %	
	Minimum MPSD - Horizontal	1000'	
	Minimum MPSD - Vertical	565'	
	Maximum Design Speed	65 M.P.H.	



STA. 1460+48.0 END S0015 (3) =

So. Abut. of Bridge (Str. No. B-23-H) =
260' ± So. of Beginning of Fed. Aid Secondary Route No. 15

STA. 1100+00 BEGIN S0015 (3) =

Sta. 1100+00 on F.A.S. 14-B (1)

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:

E.W. Oviatt, Constr. Engineer, Greeley, Colo.
J.M. Bay, Resident Engineer, Sterling, Colo.
Home Phone - Sterling 1774

COLORADO DEPARTMENT OF HIGHWAYS	
APPROVED:	DATE
CHIEF ENGINEER	
8-12-54	
DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS RECOMMENDED FOR APPROVAL	
APPROVED:	DATE
DISTRICT ENGINEER	
APPROVED:	DATE
DIVISION ENGINEER	

MICROFILMED

FEDERAL ROAD DIVISION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	S 0015 (3)	2	

TYPICAL CROSS SECTION OF IMPROVEMENT

NOTE:

See Standard M-2-EM for Details of Cut Slope Treatment, Flaring and Widening for Guard Fence and/or Guard Posts.

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.

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

* Where Profile Grade is not shown the following operations will determine the finished grade:

Sta. 1100+00 to 1123+00 Unsuitable material, (shown as A-7-6 (19)), shall be removed and underlying material stabilized with Sub-Base Material plus Surfacing

Sta. 1123+00 to 1133+00 Unsuitable material, (shown as A-7-6 (19)), shall not be removed, but shall be stabilized with 13" Sub-Base Material plus Surfacing.

Sta. 1249+00 to 1339+00 Present road bed to be stabilized with Sub-Base Material plus Surfacing.

Sta. 1339+00 to 1412+00 Present road bed to be stabilized with Surfacing only. (Sub-Base Material if needed to reestablish Superelevations.)

1/2 CUT SECTION

1/2 FILL SECTION

GENERAL NOTES

This project is to be constructed in conformity with the Standard Specifications of the Colorado Department of Highways, adopted June 1, 1952.

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

All curves are to be superelevated and widened as provided by the Standard Superelevation sheet included with the plans.

It is estimated that old road is to be obliterated at the following locations: Sta. 1333+ to Sta. 1337+ Lt.

All side approach roads to the project designated by the Engineer shall be primed and fog coated to approximately 50 feet out from edge of the Asphaltic Surfacing or to the Right of Way line, whichever is less. The following listed approaches shall be primed, asphaltic processed and fog coated: Sta. 1426+ Rt., 1332+ Lt., 1333+ Lt., 1382+ Rt. & Lt.

It is estimated that rolling of the Asphaltic Surfacing with Flat Wheeled Roller (Tandem) will be necessary after any rolling with Rubber Tired Rollers in order to provide a firm smooth surface.

For preliminary plan quantities of Asphaltic Road Materials, the following rates of application were used:

PRIME COAT MC ----- @ 0.40 Gal. per Sq. Yd.
PROCESS ----- @ 0.61 Gal. per Sq. Yd. per inch
FOG COAT ----- @ 0.10 Gal. per Sq. Yd.

Rate of application and grade of Asphaltic Material shall be as determined by the Engineer at time of application.

At Bridge Approaches, the Asphaltic Surfacing shall be widened to meet the curbed width of the bridge and shall take place gradually over a distance of 300 ft. from the Bridge end. The Prime Coat and Fog Coat shall be widened beyond Mat as indicated on Typical Section.

FILL SLOPES:

On Tangent
Slope 4:1 where "H" is 3' or less
Slope 2:1 where "H" is over 5'
On Curves
Slope 4:1 where "H" is 5' or less
Slope 2:1 where "H" is over 5'

SUMMARY OF APPROXIMATE QUANTITIES

ITEM NO.	ITEM	UNIT	PROJECT TOTALS
11a	Removing and Resetting Mail Boxes	Lump Sum	•
11b	Removing Guard Posts	Each	11
12b	Removing and Rebuilding Fence	Lin. Ft.	300
12c	Line Posts (Metal)	Each	4
13c	Unclassified Excavation	Cu. Yd.	16,000
13s	Stripping	Cu. Yd.	2,500
17a	Rolling with Tamping Roller (Two (2) Unit)	Hour	70
17b	Rolling with Tamping Roller (Four (4) Unit)	Hour	10
17c	Rolling with Flat Wheeled Roller (Tandem)	Hour	30
17d	Rolling with Flat Wheeled Roller (Three (3) Wheel)	Hour	140
17e	Rolling with Rubber Tired Roller	Hour	110
17f	Furnishing Tamping Roller (Two (2) Unit)	Each	1
17g	Furnishing Tamping Roller (Four (4) Unit)	Each	1
17h	Furnishing Flat Wheeled Roller (Tandem)	Each	1
17i	Furnishing Flat Wheeled Roller (Three (3) Wheel)	Each	1
17j	Furnishing Rubber Tired Roller	Each	1
17k	Wetting	M Gal.	1,230
18a	Station Yard Overhaul	Sta. Yd.	63,000
18b	Yard Mile Overhaul	Yd. Mi.	1,200
18c	Ton Mile Overhaul	Ton Mi.	175,300
23c	Sub-Base Material (Class 3)	Ton	15,800
23z	Placing Sub-Base Material	Ton	7,700
26d	Gravel or Crushed Rock Surfacing (Grading D)	Ton	9,000
26dx	Gravel or Crushed Rock Surfacing (Grading D) (Bottom & Shoulder)	Ton	21,200
26z	Placing Surfacing Material	Ton	2,900
30x	Asphaltic Road Material MC (Prime)	Gal.	42,300
30y	Asphaltic Road Material RC (Fog)	Gal.	9,200
30z	Asphaltic Road Material MC (Process)	Gal.	116,400
31a	Road Mix Asphaltic Processing	Sq. Yd.	87,500
51c	Relaying 24" Pipe	Lin. Ft.	68
92	Timber Guard Posts	Each	90
20a	FORCE ACCOUNT Obliterating Old Road	Lump Sum	•
81a	STATE FORCES Project Markers	Each	2
11c	NON FEDERAL AID Clean Culverts	Each	9
	FORCE ACCOUNT Remove Rubbish, Lt. of Sta. 1448+	Lump Sum	•
	STATE FORCES Signing and Striping Entire Project	Lump Sum	•
	STATE FURNISHED MATERIALS Pit Royalties	Cu. Yd.	4,000
	Pit Royalties	Ton	40,600
	RIGHT OF WAY Land, Damages, Fees and Appraisals	Lump Sum	•

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SURFACING PLAN

SUB-BASE PLAN

✓ It is estimated that material for Gravel Surfacing and Sub-base Material is available in the vicinity of the pits indicated in the following tabulations. Estimated quantities involved in these operations are shown below.
✓ Alteration of the Surfacing Plan and Sub-base Plan as here outlined will be allowed only on written permission from the Department.

MATERIAL TO BE PLACED	SOURCE	AVAILABLE	QUANTITY							TON MILE OVERHAUL				
			TOP COURSE	TONS USED -- GRADING D			SHLDER. COURSE		TON MILES					
				BINDER MATERIAL	*WINDROW AGGREGATE	AGGREGATE FROM PIT	BNDR. MAT'L	PIT AGGR.	TOP COURSE	BINDER MATERIAL	AGGREGATE FROM PIT	SHOULDER COURSE		
												BNDR. MAT'L	PIT AGGR.	
Est. for Appr. to Proj. - 1100+00	Pit #1 ✓ Haul 0.5 Mi. to Sta. 1426+50	35,000 ✓ Cu. Yds.	25 ✓	6 ✓		22 ✓	2 ✓	6 ✓	167 ✓	28 ✓	147 ✓	9 ✓	40 ✓	
1100+00 to 1332+00	Pit #2 ✓ (Bindr. Mtl.) Haul 0.3 Mi. to Sta. 1332+00	8,000 ✓ Cu. Yds.	5800 ✓	2552 ✓		10208 ✓	371 ✓	1485 ✓	25891 ✓	6372 ✓	45569 ✓	926 ✓	6629 ✓	
1332+00 to 1339+00			175 ✓	77 ✓		308 ✓	11 ✓	45 ✓	385 ✓	28 ✓	678 ✓	4 ✓	99 ✓	
1339+00 to 1391+71.5 Bk.			1318 ✓	580 ✓	1687 ✓	633 ✓	84 ✓	338 ✓	2156 ✓	541 ✓	1036 ✓	78 ✓	553 ✓	
1392+89.0 Ah. to 1426+50			840 ✓	370 ✓	1076 ✓	403 ✓	54 ✓	215 ✓	687 ✓	647 ✓	330 ✓	94 ✓	176 ✓	
1426+50 to 1428+00	to Sta. 1332+00		38 ✓	17 ✓	48 ✓	18 ✓	2 ✓	10 ✓	20 ✓	35 ✓	9 ✓	4 ✓	5 ✓	
1428+00 to 1431+87.0	Windrow Mtl. Sta. 1339+00 to Sta. 1428+00	Estimated 32 Tons per Station	97 ✓	43 ✓		170 ✓	6 ✓	25 ✓	55 ✓	92 ✓	96 ✓	13 ✓	14 ✓	
1436+25.5 to 1443+68.3			186 ✓	82 ✓		327 ✓	12 ✓	47 ✓	140 ✓	191 ✓	247 ✓	28 ✓	35 ✓	
1447+37.0 to 1449+50.7			53 ✓	24 ✓		94 ✓	3 ✓	14 ✓	49 ✓	60 ✓	86 ✓	7 ✓	13 ✓	
1451+59.0 to 1460+48.0			222 ✓	98 ✓		391 ✓	14 ✓	57 ✓	235 ✓	257 ✓	414 ✓	37 ✓	60 ✓	
Est. for Irregularities in Subgrade (1339+00-1460+48)	R=80 (After mixing and adding Mineral filler)			121 ✓		485 ✓				182 ✓	528 ✓			
Est. for Road Approaches not on List of Structures				54 ✓		216 ✓				116 ✓	786 ✓			
Est. for Bridge Widening From List of Structures			41 ✓	17 ✓		68 ✓			149 ✓	36 ✓	247 ✓			
			155 ✓	62 ✓		250 ✓			564 ✓	133 ✓	909 ✓			
Est. for Mineral Filler				634										
TOTALS			8,950 ✓	4,737 ✓	2,811 ✓	13,593 ✓	559 ✓	2,242 ✓	30,498 ✓	8,718 ✓	51,082 ✓	1,200 ✓	7,624 ✓	

MATERIAL TO BE PLACED	SOURCE	QUANTITY AND THICKNESS						TON MILE OVERHAUL	
		AVAILABLE	CLASS 3				TON MILES		
			# TOTAL THICKNESS REQUIRED INCHES	FROM WINDROW		FROM PIT			
				▲ RATE PER STATION	*TONS	RATE PER STATION			TONS
<i>Est. for Appr. to Proj. - 1100+00</i>	<i>Pit #1 ✓ Haul 0.5 Mi. to Sta. 1426+50 R=66 ✓</i>	<i>35,000 ✓ Cu. Yds.</i>					<i>26 ✓</i>	<i>173 ✓</i>	
<i>1100+00 to 1123+00</i>			<i>3 ✓</i>	<i>32 ✓</i>	<i>736 ✓</i>	<i>20 ✓</i>	<i>460 ✓</i>	<i>2964 ✓</i>	
<i>1123+00 to 1133+00</i>			<i>13 ✓</i>	<i>32 ✓</i>	<i>320 ✓</i>	<i>216 ✓</i>	<i>2160 ✓</i>	<i>13243 ✓</i>	
<i>1133+00 to 1159+00</i>			<i>3 ✓</i>	<i>32 ✓</i>	<i>832 ✓</i>	<i>20 ✓</i>	<i>520 ✓</i>	<i>3011 ✓</i>	
<i>1159+00 to 1168+00</i>			<i>13 ✓</i>	<i>32 ✓</i>	<i>288 ✓</i>	<i>216 ✓</i>	<i>1944 ✓</i>	<i>10612 ✓</i>	
<i>1168+00 to 1202+00</i>	<i>Windrow Mtl.</i>	<i>Estimated</i>	<i>3 ✓</i>	<i>32 ✓</i>	<i>1088 ✓</i>	<i>20 ✓</i>	<i>680 ✓</i>	<i>3435 ✓</i>	
<i>1202+00 to 1220+00</i>	<i>Sta. 1100+00</i>	<i>32 Tons per</i>	<i>13 ✓</i>	<i>32 ✓</i>	<i>576 ✓</i>	<i>216 ✓</i>	<i>3888 ✓</i>	<i>17725 ✓</i>	
<i>1220+00 to 1249+00</i>	<i>to Sta. 1339+00</i>	<i>Station</i>	<i>3 ✓</i>	<i>32 ✓</i>	<i>928 ✓</i>	<i>20 ✓</i>	<i>580 ✓</i>	<i>2386 ✓</i>	
<i>1249+00 to 1339+00</i>	<i>R=64</i>		<i>3 ✓</i>	<i>32 ✓</i>	<i>2880 ✓</i>	<i>20 ✓</i>	<i>1800 ✓</i>	<i>5377 ✓</i>	
<i>Estimated for Irregularities in Subgrade</i>							<i>1971 ✓</i>	<i>9256 ✓</i>	
<i>Estimated for Restoring Superelevation on Curves</i>							<i>1755 ✓</i>	<i>7962 ✓</i>	
TOTALS					<i>7,648 ✓</i>		<i>15,784 ✓</i>	<i>76,144 ✓</i>	

- * No Overhaul is estimated on Material in Windrow - Sta. 1100+00 to 1428+00.
- ◊ Shoulder Surfacing is not to be placed across Road Approaches.
- ▲ If material in Windrow does not meet the estimated rate per station, the total thickness required is to be obtained by increasing or decreasing material obtained from the Pit.
- ‡ Based on Curve "C".
- No Overhaul allowed on Mineral Filler.

TIMBER GUARD POSTS

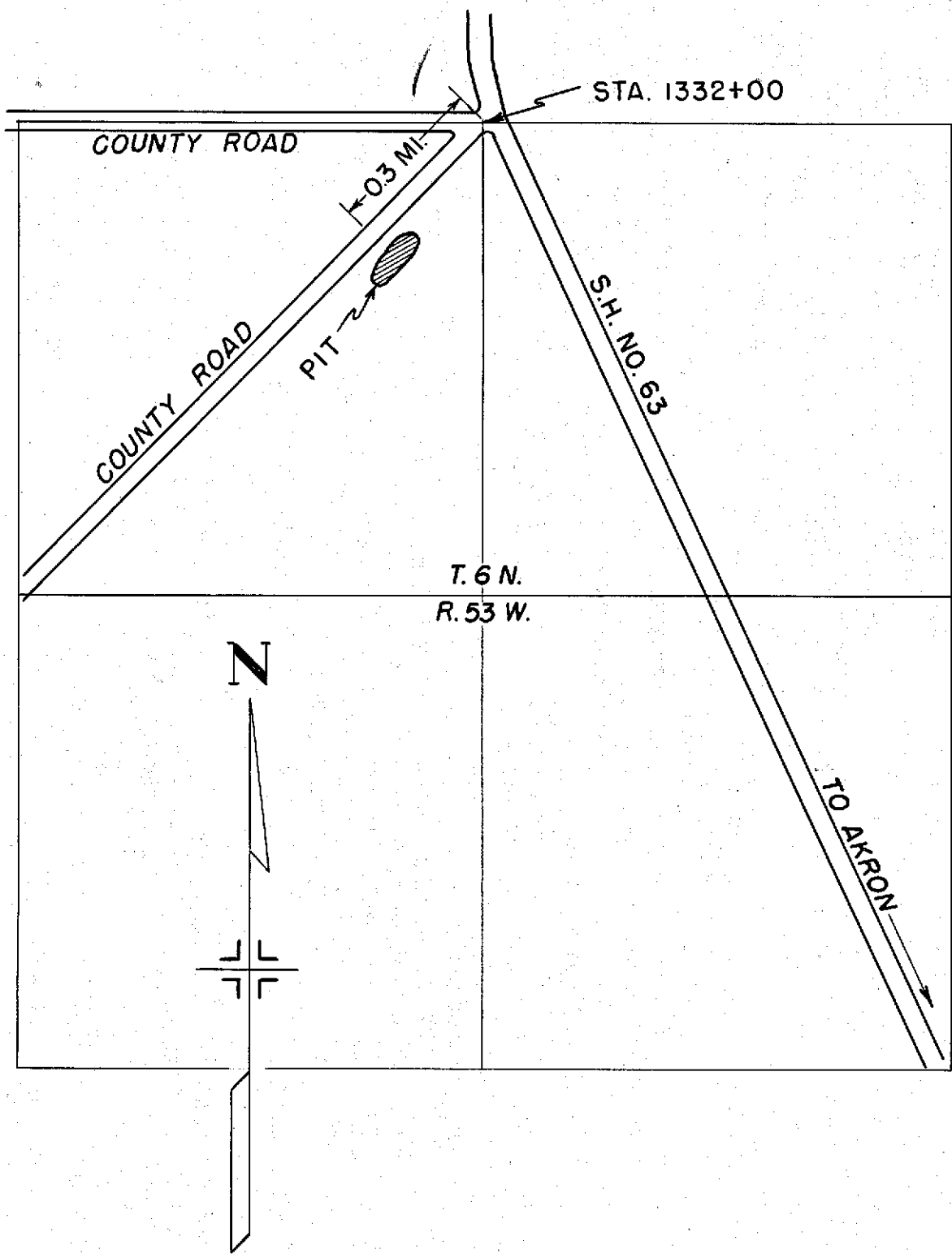
STATION	SPACING	SIDE	NEW GUARD POST	REMOVE GUARD POST
			EACH	EACH
1148+00	C.B.C.	Rt. & Lt.	2	2
1202+00 to 1207+00	50'	Rt. & Lt.	22	6
1212+73	C.B.C.	Rt. & Lt.	2	1
1246+64	C.M.P.	Rt. & Lt.	2	2
1382+72	C.M.P.	Rt. & Lt.	2	
1436+26 to 1436+87	BRIDGE	Rt. & Lt.	10	
1443+04 to 1443+65	BRIDGE	Rt. & Lt.	10	
1447+40 to 1448+01	BRIDGE	Rt. & Lt.	10	
1448+87 to 1449+48	BRIDGE	Rt. & Lt.	10	
1451+62 to 1452+23	BRIDGE	Rt. & Lt.	10	
1459+84 to 1460+45	BRIDGE	Rt. & Lt.	10	
TOTALS			90 ✓	11 ✓

PIT LOCATIONS

FEDERAL ROAD DIVISION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	S 0015 (3)	4	

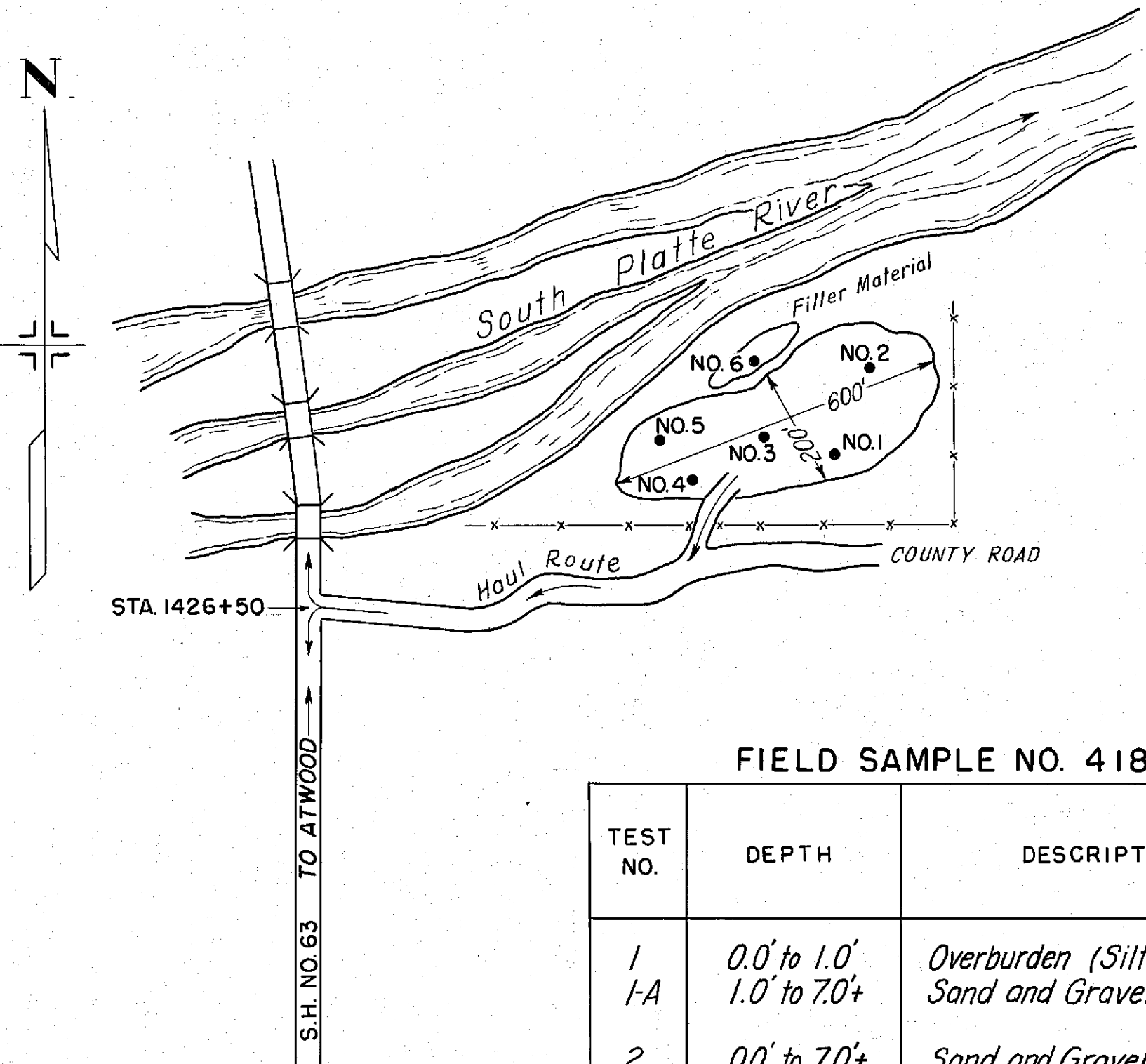
PIT NO. 2

Location: N.W. 1/4 Sec. 11, T.6 N., R. 53 W. ✓
Owner: T. A. Propst, Atwood, Logan County ✓
Quantity Available: 8,000 Cu. Yds.
Proposed Use: Binder Material
Haul Distance: 0.3 Mile to Sta. 1332+00
Sample No. 17249
Estimated- No Stripping Required.



PIT NO. 1

Location: S.E. 1/4 of S.W. 1/4 & S.W. 1/4 of S.E. 1/4 Sec. 26, T. 7 N., R. 53 W.
Owner: State Land, Leased by Ben Fish
Quantity Available: 35,000 Cu. Yds.
Proposed Use: Sub-Base Material, Top Course & Aggregate for Shoulder Surfacing & Bottom Course
Haul Distance: 0.5 Mile to Sta. 1426+50
Sample No. 418
Estimated for Stripping Overburden 2,500 Cu. Yds.



FIELD SAMPLE NO. 418 ✓

TEST NO.	DEPTH	DESCRIPTION
1	0.0' to 1.0'	Overburden (Silty Sand)
1-A	1.0' to 7.0'	Sand and Gravel-Water at 4'
2	0.0' to 7.0'	Sand and Gravel-Water at 4'
3	0.0' to 0.5'	Overburden (Silty Sand)
3-A	0.5' to 7.0'	Sand and Gravel Sim. #1-A
4	0.0' to 7.0'	Sand and Gravel Sim. #1-A
5	0.0' to 7.0'	Sand and Gravel
6	0.0' to 3.0'	Filler Material

Note: Gravel is coarser below water table.

FED. ROAD DIVISION NO.	DISTRICT	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9.	COLO.	50015 (3)	5	

[illegible]

- Included in Profile Quantities.
- * Estimated 4 New Line Posts required.

RECEIVED

COLORADO DEPARTMENT OF HIGHWAYS
Form C.O.R. 134
April 1927

SW 1/4 Sec 30 T6N R52W

NW 1/4 Sec 30 T6N R52W

FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0015 (3)	12	

NOTE:

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

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.

Guard Posts are tabulated on sheet No. 3

Sta 1099+00
524 x 90 chip Cross Drain
(Leave in Place)

Sta 1108+47.9
20' W. Gate

Sta 1120+00
24 x 18 chip Cross Drain
(Leave in Place)

PC 1129+74.9

R.O.W. Along Present Fence

R.O.W. Along Present Fence

N 0° 52' W

SE 1/4 Sec 30 T6N R52W

NE 1/4 Sec 30 T6N R52W

STA. 1100+00
BEG. S0015 (3) =
STA. 1100+00 on F.A.S. 14-B (1)

1100+00 ~ Reg'd.
Approach to Project
1100+00 ~ Reg'd. Project
Marker, Rt. (State Forces)

Test #1A
A-7-6(10)
LL = 60.8
PI = 32.0
%100 = 69.0
CBR = 2.6

Test #1B
A-2-4(0)
LL = NV
PI = NP
%100 = 16.0
CBR = 9.5

Test #8
0.0-0.1
Surfacing

Test #8A
0.1-0.4
Similar to Test #1A

Test #8B
0.4-3.0
Similar to Test #1B

Test #9
0.0-0.1
Surfacing

Test #9A
0.1-0.4
Similar to Test #1A

Test #9B
0.4-3.0
Similar to Test #1B

Test #10
0.0-0.1
Surfacing

Test #10A
0.1-0.4
Similar to Test #1A

Test #10B
0.4-3.0
Similar to Test #1B

Top of Subgrade, not Profile grade

+0.50%

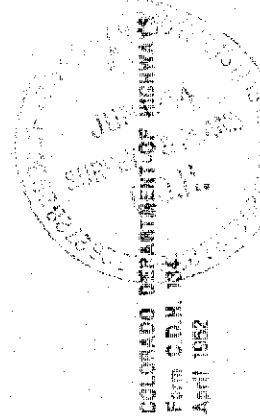
-0.50%

400' V.C.
N.P.S.D. = 930'

NOTE:
Sta. 1101+ to 1106+ ~ Material
to be removed to elevations shown
to improve sight distance.
Included in Unsuitable Material.

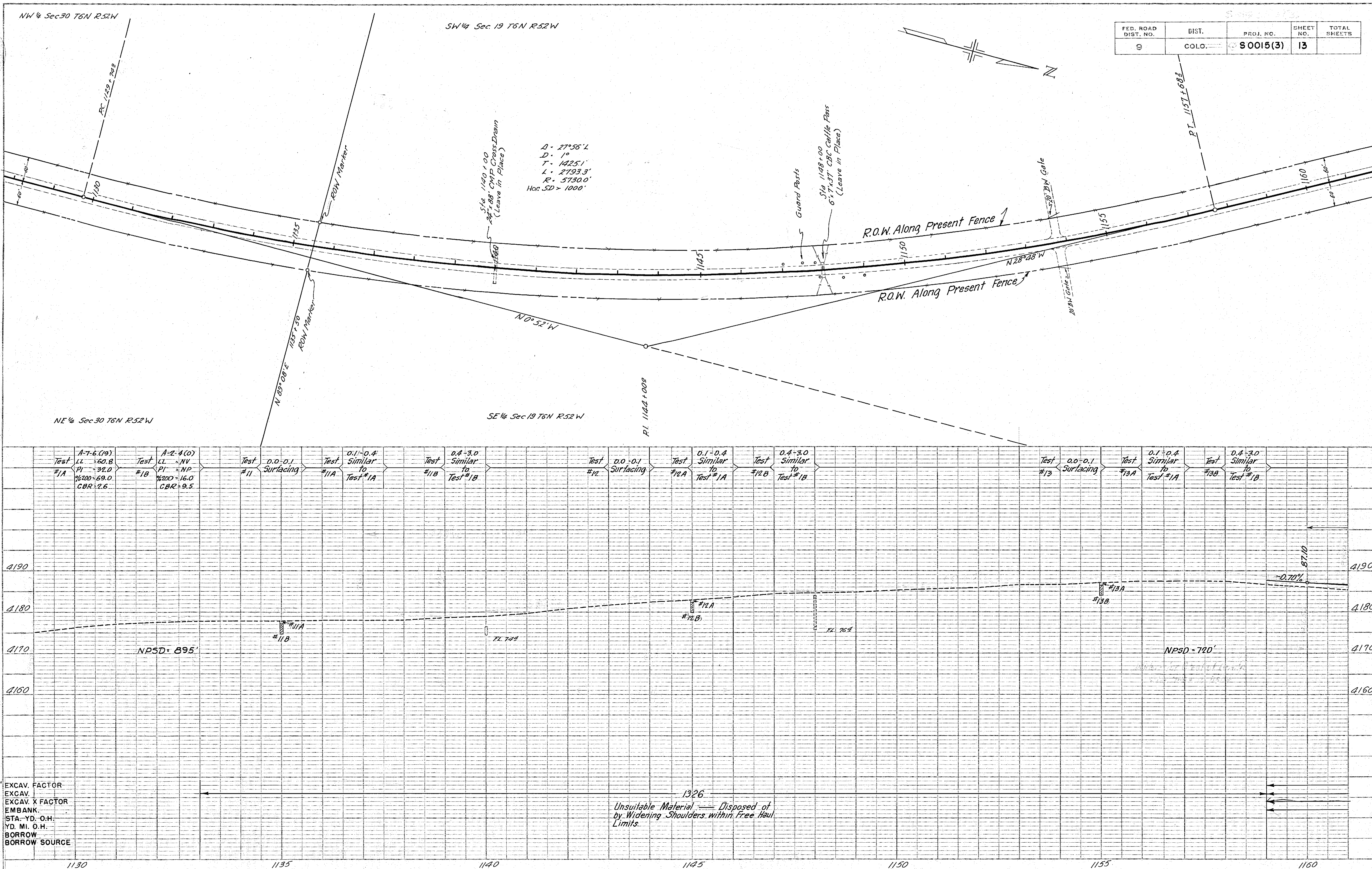
EXCAV. FACTOR
EXCAV.
EXCAV X FACTOR
EMBANK.
STA-YD O.H.
YD. MI. O.H.
BORROW
BORROW SOURCE

13.98
Unsuitable Material - Disposed of by
Widening Shoulders within Free Haul
Limits. (Includes Approach to Project)



DATE	BY	PL	NO
3-23-34	DAQ	18014	13
NOTE: BOOK ALIGNED CHECKED RT. OF WAY CHECKED			

DATE	BY	PL	NO
3-23-34	DAQ	18014	13
NOTE: BOOK ALIGNED CHECKED RT. OF WAY CHECKED			



FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S0015(3)	13	

NW 1/4 Sec 19 T6N R52W

RECEIVED
COLORADO DEPARTMENT OF HIGHWAYS
FROM C.B.M. 134
APR 1952

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO 1804	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED	DAQ	5-26-53
NO. 18014	SPADES CHECKED		
	8. M.S. NOTED		
	STRUCTURE NOTATIONS CHANGED		

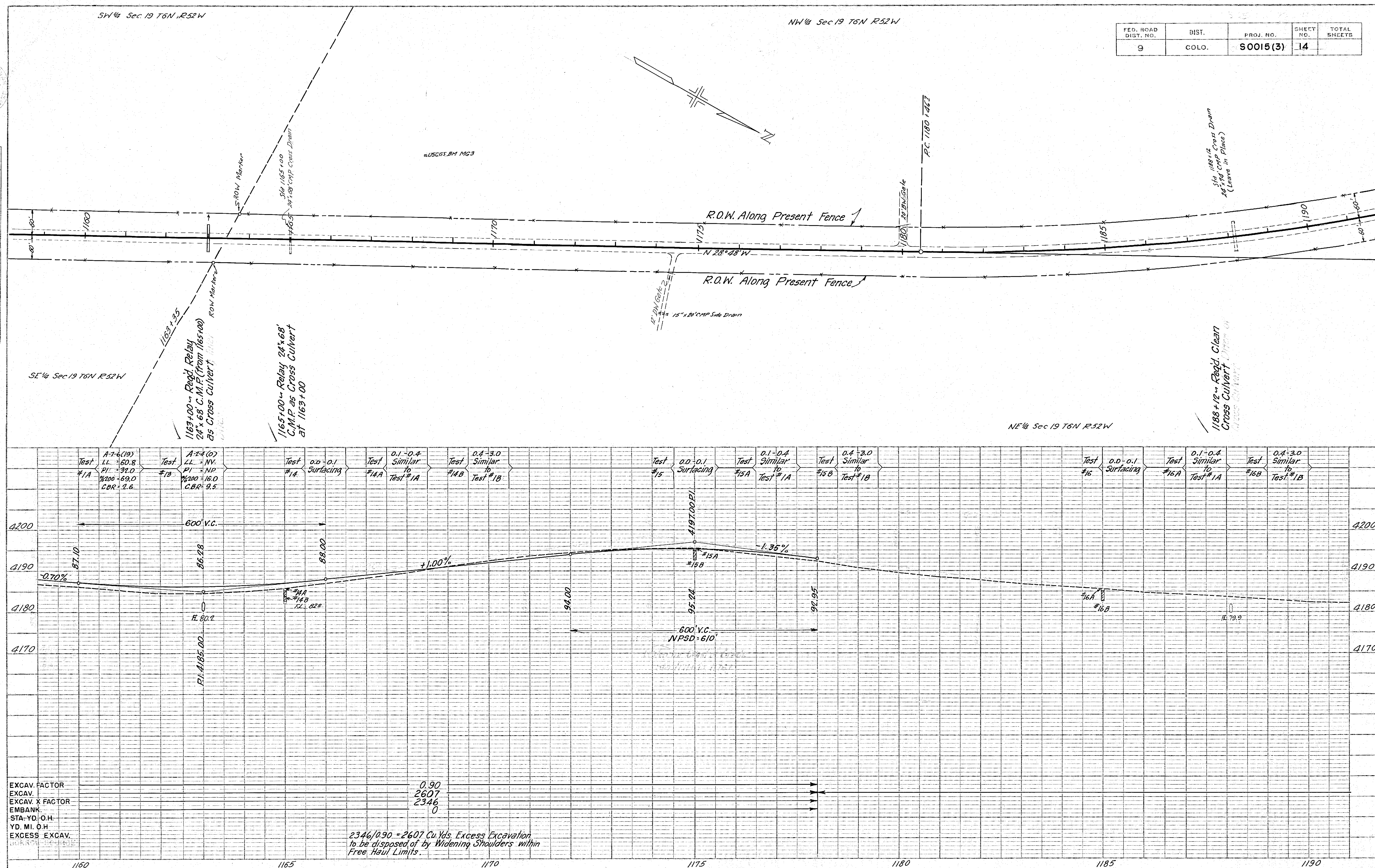


PLATE 1 - PLAN - PROFILE O. P. R. & R. E. STANDARD
NEUFEL & ESSER CO. NEW YORK

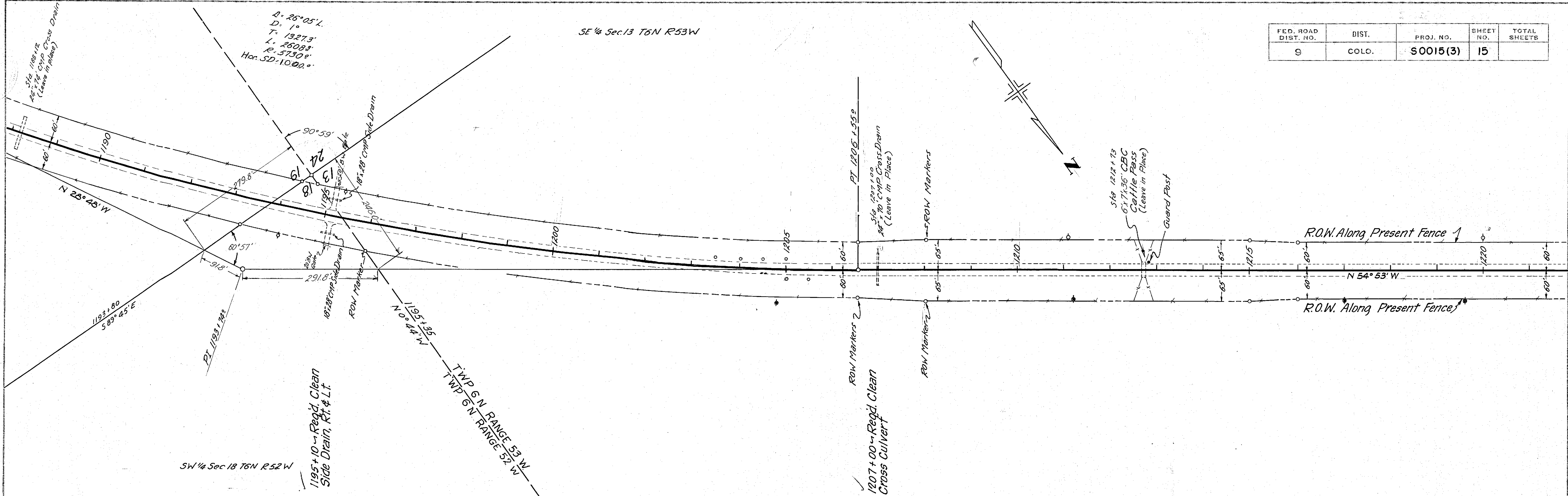
K & E Co. No. 348-10

MICROFILMED

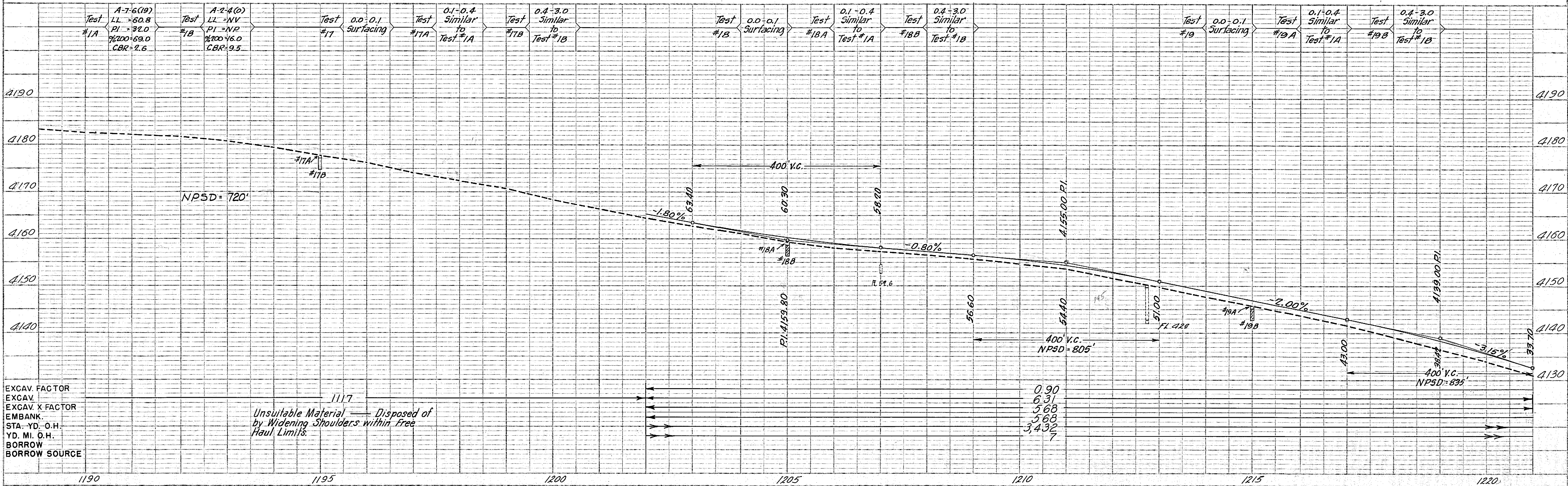
PLAN	SUPERVISOR	DATE
NOTE BOOK	PLOTTED	
NO 18014	NOTE BOOK	

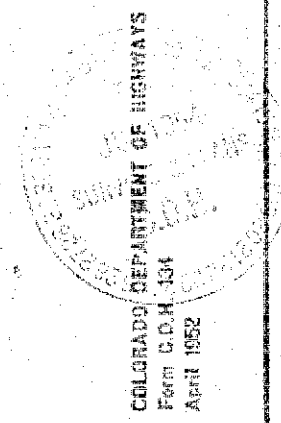
PROFILE	SUPERVISOR	DATE
NOTE BOOK	PLOTTED	
NO 18014	NOTE BOOK	

COLORADO DEPARTMENT OF HIGHWAYS
Form C.D.R. 131
April 1952



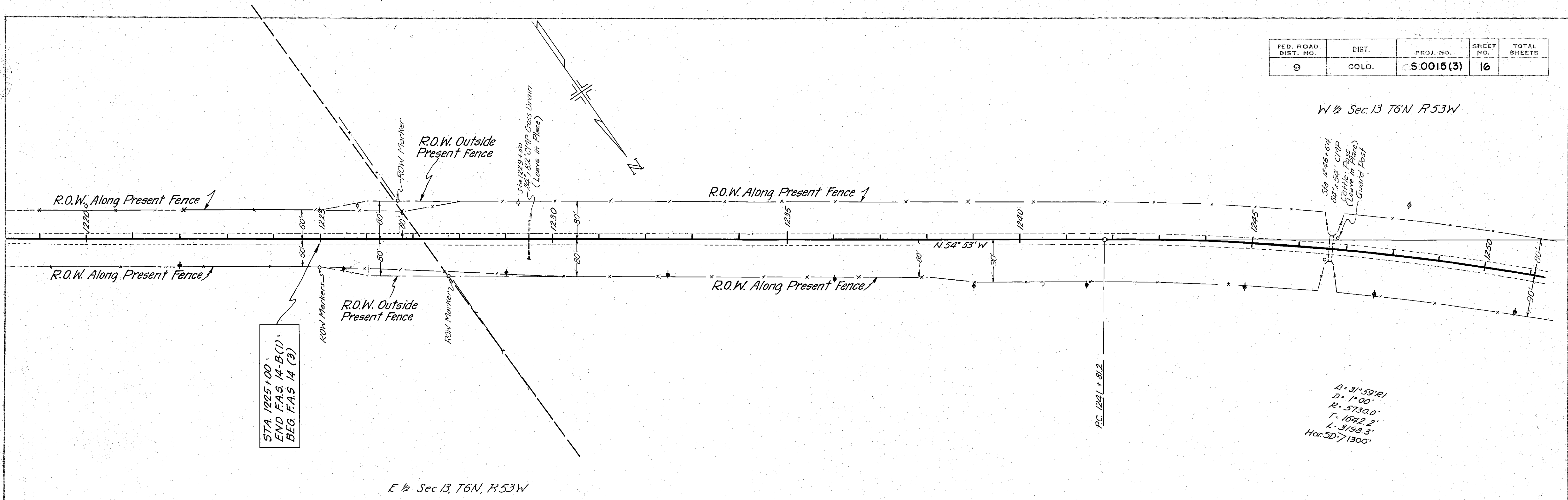
FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S0015(3)	15	

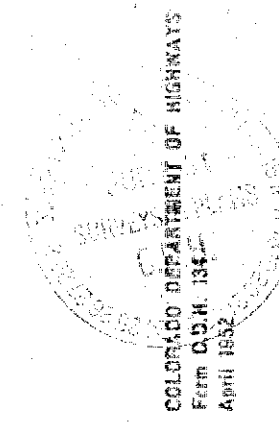




PLAN	DATE	BY	CHKD
NO. 16014	12/25	DAQ	WLS
NO. 16014	12/25	DAQ	WLS
NO. 16014	12/25	DAQ	WLS
NO. 16014	12/25	DAQ	WLS

FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0015(3)	16	

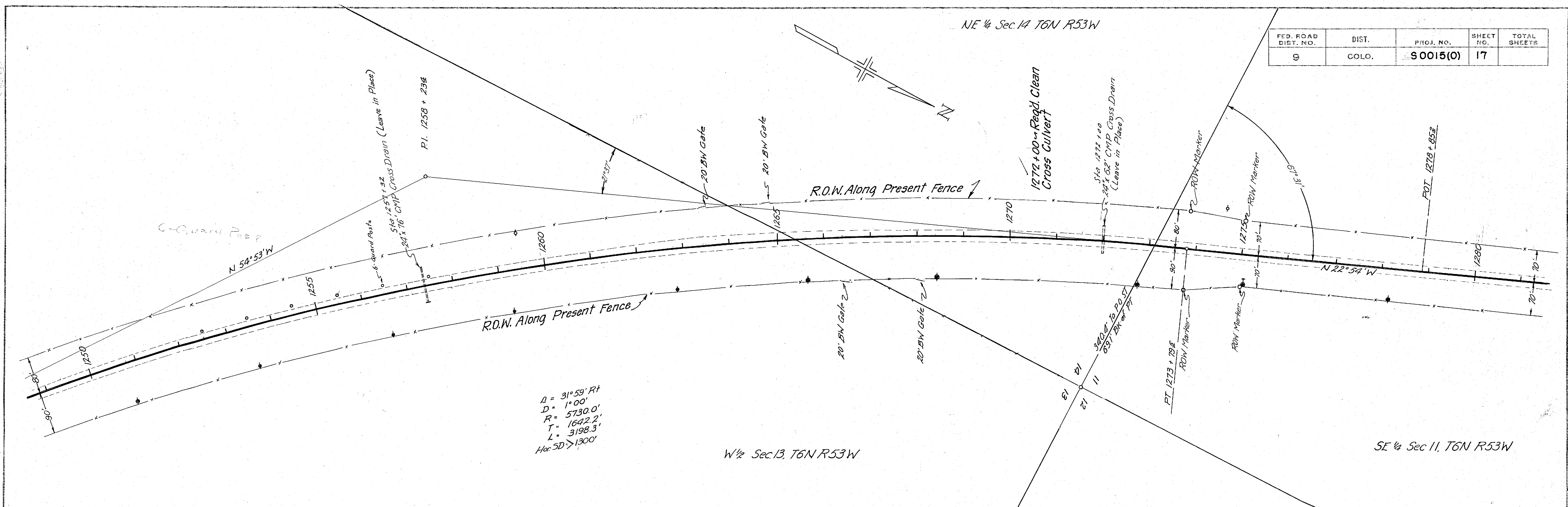




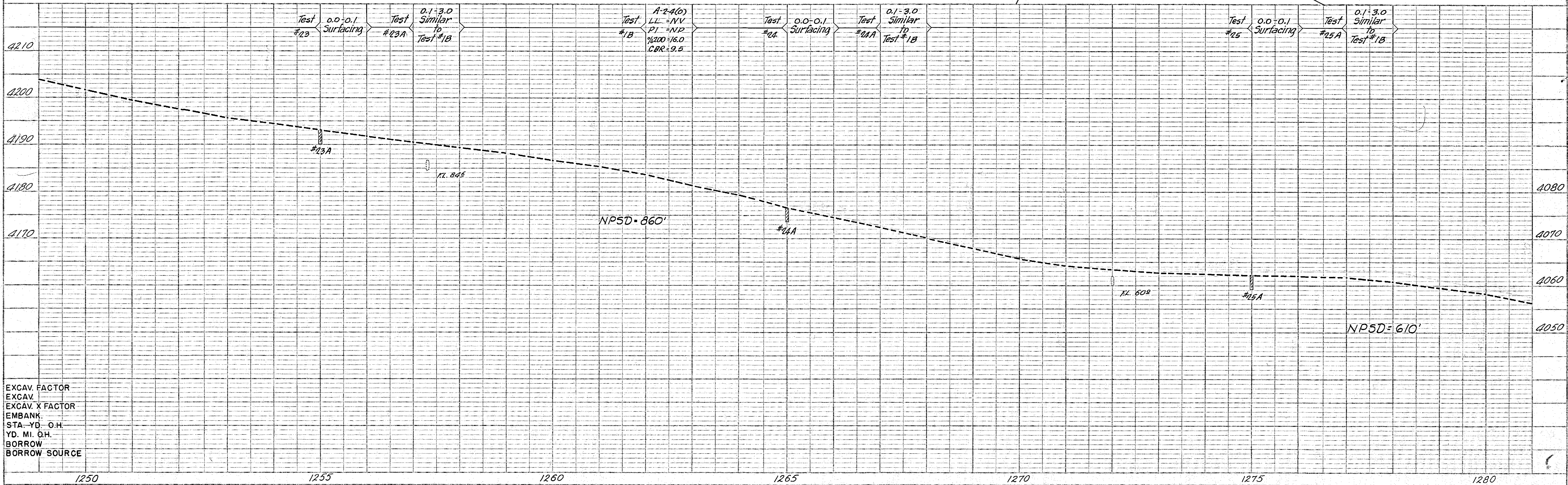
COLORADO DEPARTMENT OF HIGHWAYS
Form C.D.H. 131
April 1952

PLAN	SURVEYED	DATE
NO. 18014	BY	5-26-54
NOTE: BOOK, ALIGNMENT CHECKED, RT. OF WAY CHECKED.		

PROFILE	SURVEYED	DATE
NO. 18014	BY	5-26-54
NOTE: BOOK, GRADES CHECKED, STRUCTURE NOTING CHECKED.		



FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S0015(0)	17	

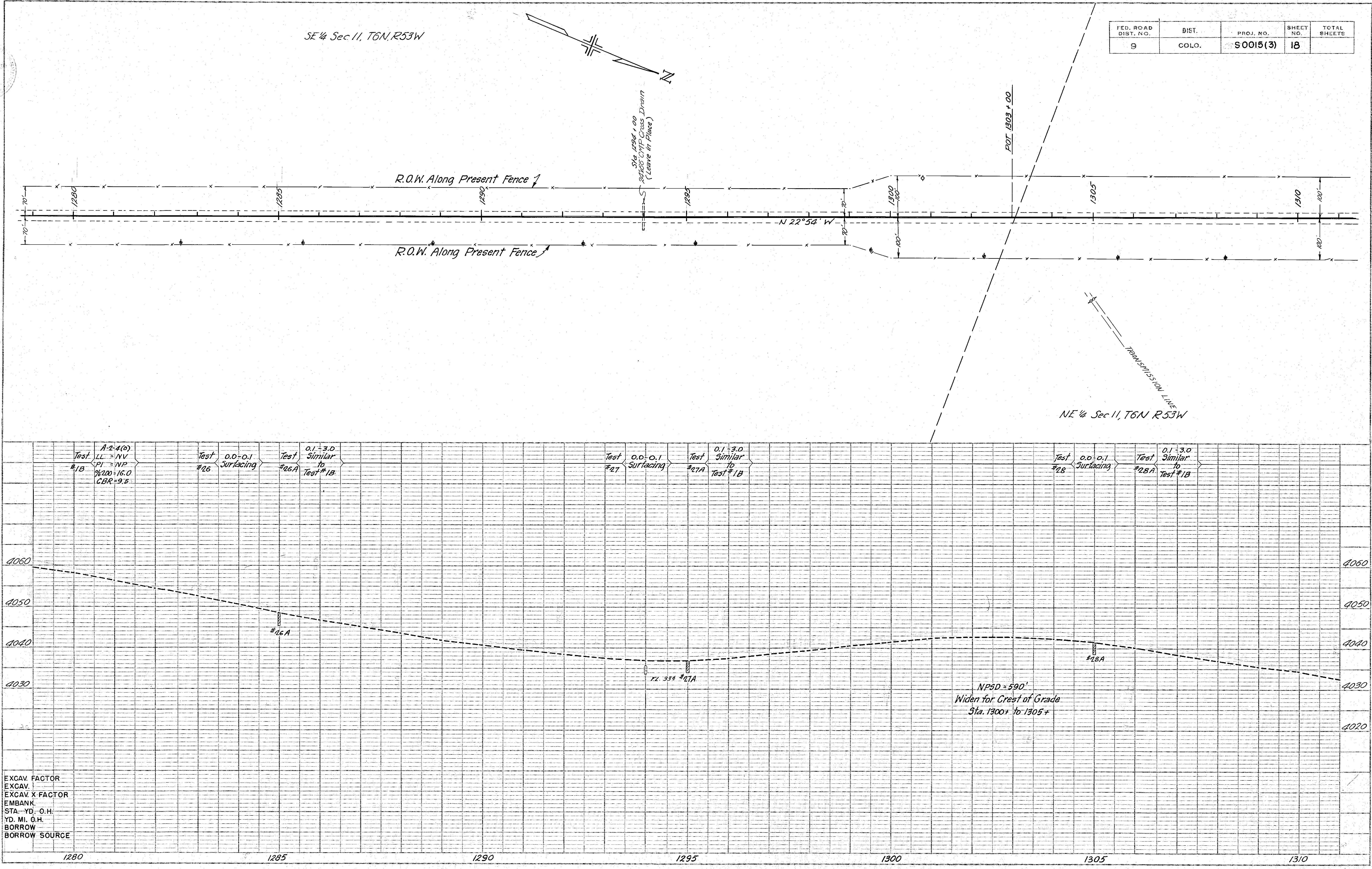


EXCAV. FACTOR
EXCAV. X FACTOR
EMBANK.
STA. - YD. - O.H.
YD. MI. O.H.
BORROW
BORROW SOURCE

CHICAGO DEPARTMENT OF HIGHWAYS
Form C.D.M.-3A
April 1934

PLAN	SURVEYED	DATE
NOTE BOOK ALPHABETICALLY CHECKED	BY	1225 5/24/34
NO. 18014		

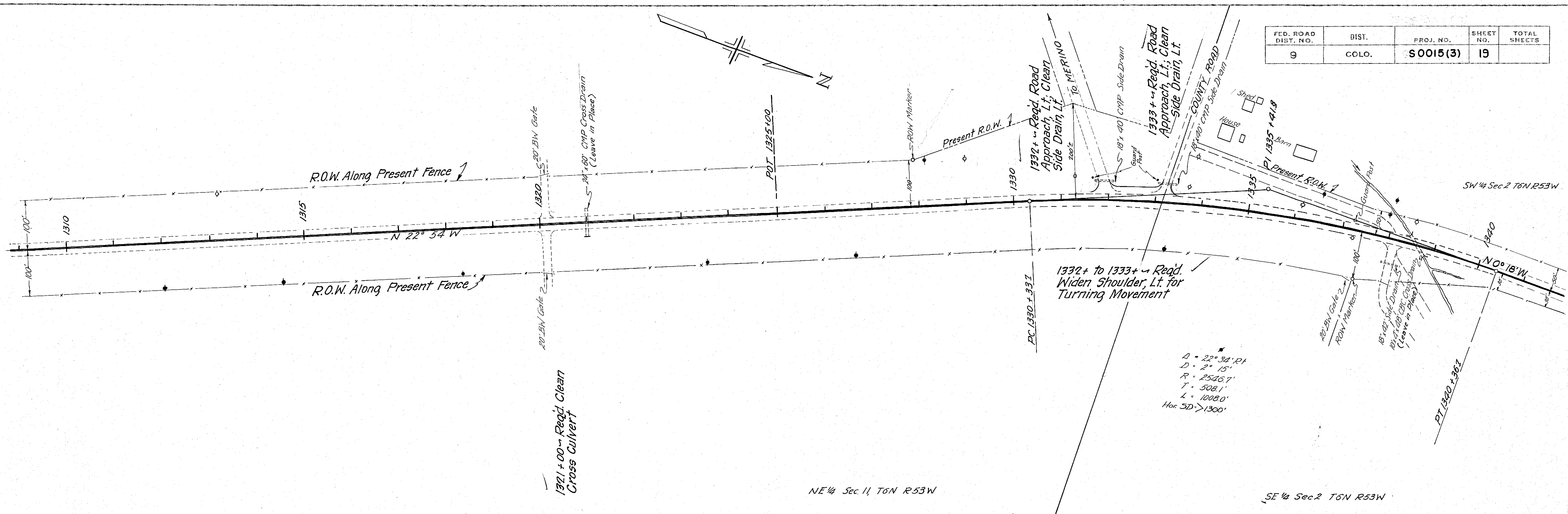
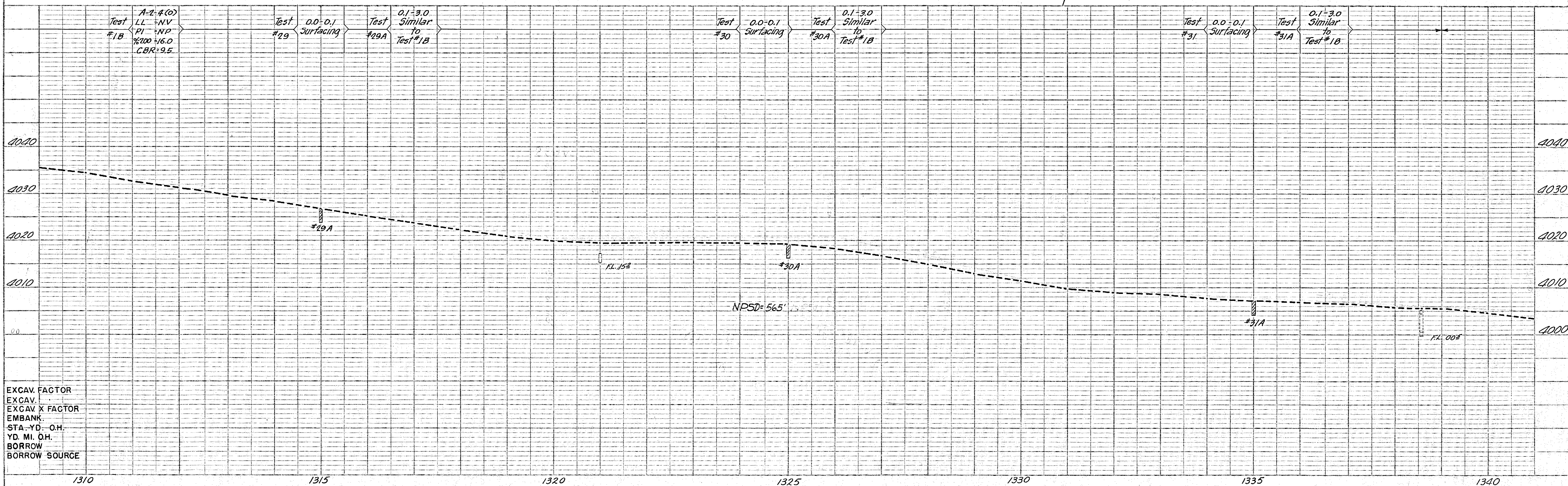
PROFILE	SURVEYED	DATE
NOTE BOOK ALPHABETICALLY CHECKED	BY	5/24/34
NO. 18015		



FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S0015(3)	18	

NOTE BOOK	GRADES CHECKED	PLANTED
NO 18015	E. M. S. NOTED	
	STRUCTURE NOTATIONS CH. K.C.	

EXCAV. FACTOR	
EXCAV.	
EXCAV X FACTOR	
EMBANK.	
STA-YD. O.H.	
YD. MI. O.H.	
BORROW	
BORROW SOURCE	



FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S0015(3)	19	

$\Delta = 22^\circ 34' Rt$
 $D = 2^\circ 15'$
 $R = 2546.7'$
 $T = 508.1'$
 $L = 1008.0'$
 Hor. $SD > 1300'$

PLATE I-PLAN-PROFILE OF F. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

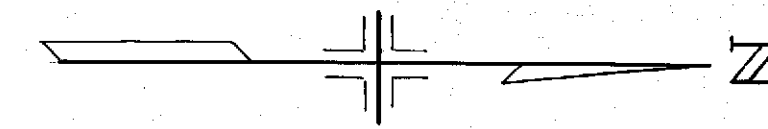
K & E Co. No. 34-B-10
"INVENTOR" LEAVING NO. 214 228

COLORADO DEPARTMENT OF HIGHWAYS
Form C.D.R. 104
April 1952

PLAN	DATE
NO. 16014	12/25/52
NOTE BOOK	
ALIGNED CHECKED	
RT. OF WAY CHECKED	

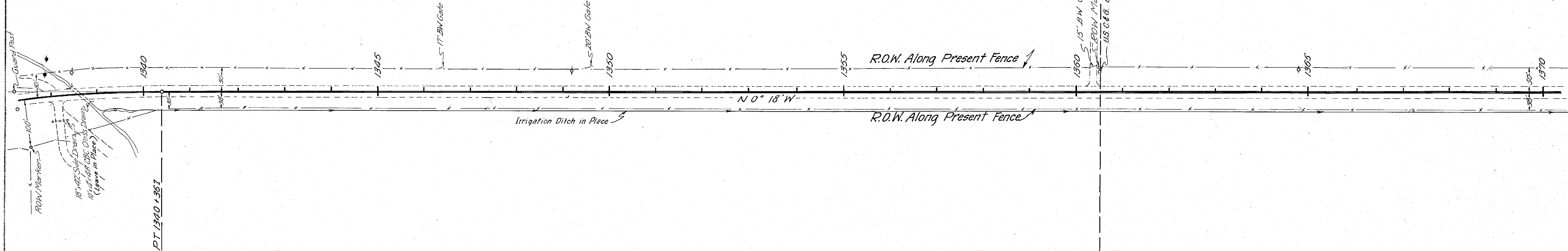
PROFILE	DATE
NO. 16015	12/25/52
NOTE BOOK	
ALIGNED CHECKED	
RT. OF WAY CHECKED	

SW 1/4, Sec. 2 T6N, R53W



FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0015 (3)	20	

NW 1/4, Sec. 2 T6N R53W



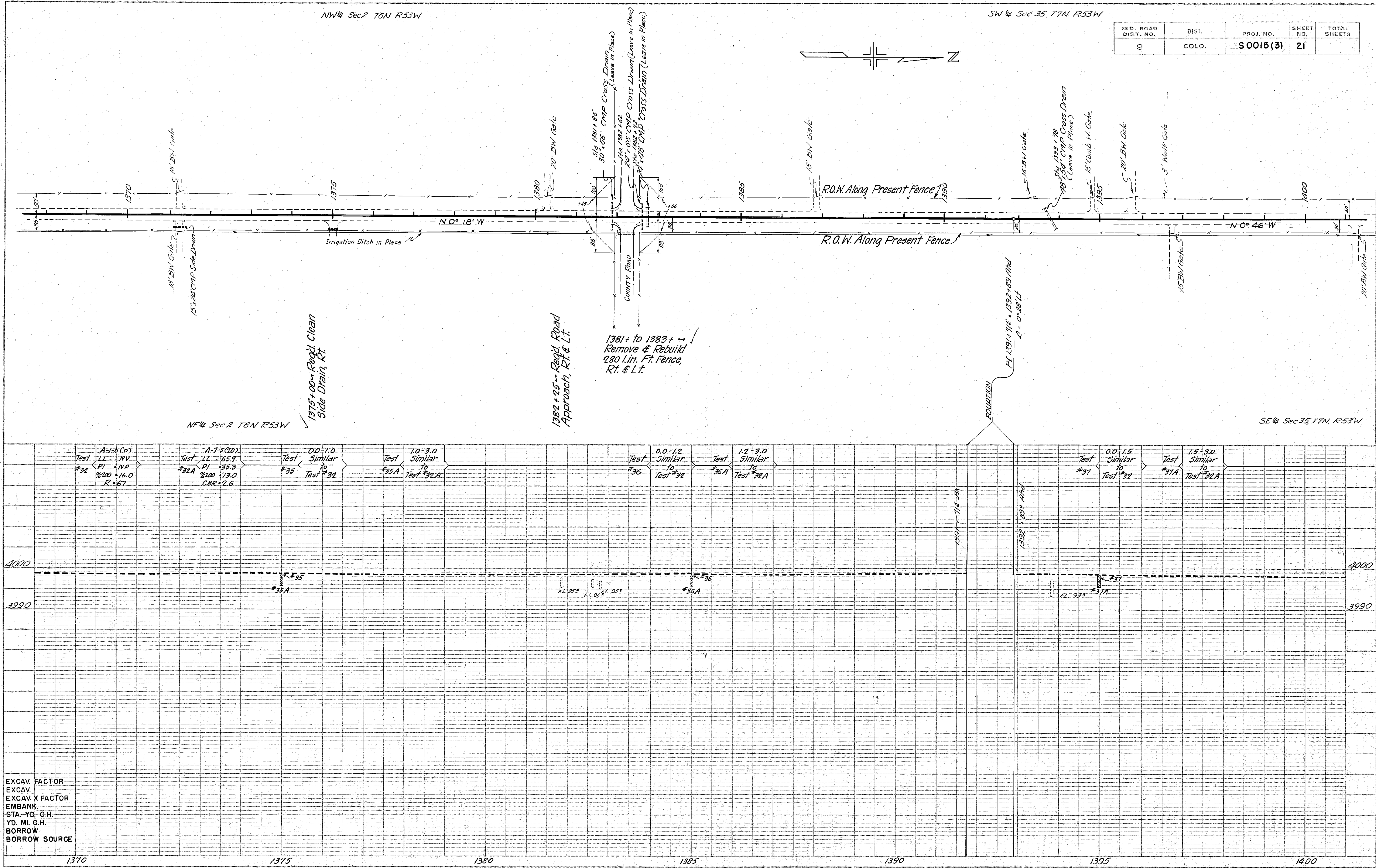
NE 1/4, Sec. 2, T6N R53W

SE 1/4, Sec. 2, T6N, R53W.



PLAN	SURVEYED	DATE
NO. 18014	PLOTTED	5-25-54
NOTE: BOOK, ALIGNMENT CHECKED, RT. OF WAY CHECKED.		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED	DAG	5-25-54
NO. 18015	R. M. J. CHECKED STRUCTURE NOTATIONS CH'D.		



FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0015 (3)	21	

COLORED DEPARTMENT OF HIGHWAYS
Form C.D.M. 134
April 1922

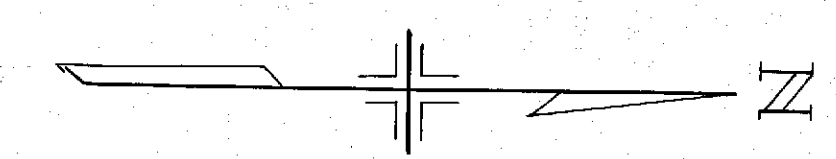
PLAN	SURVEYED	DATE
NOTE BOOK ALPHABETICALLY CHECKED NO. 18014	BY	DATE

PROFILE	SURVEYED	DATE
NOTE BOOK ALPHABETICALLY CHECKED NO. 18015	BY	DATE

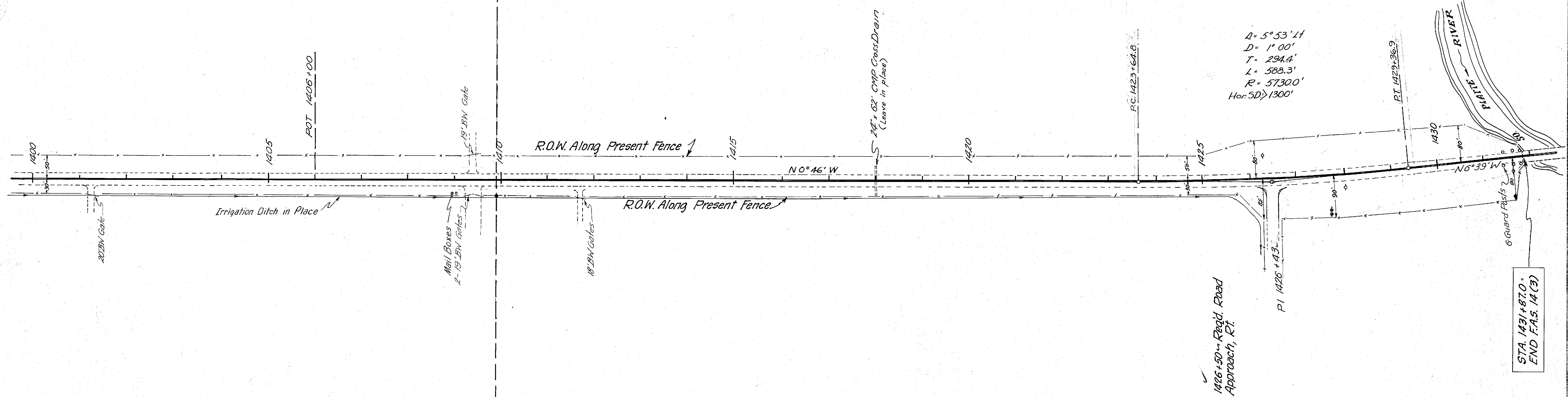
SW 1/4 Sec 35 T1N R53W

NW 1/4 Sec 35 T1N R53W

FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	00015 (3)	22	

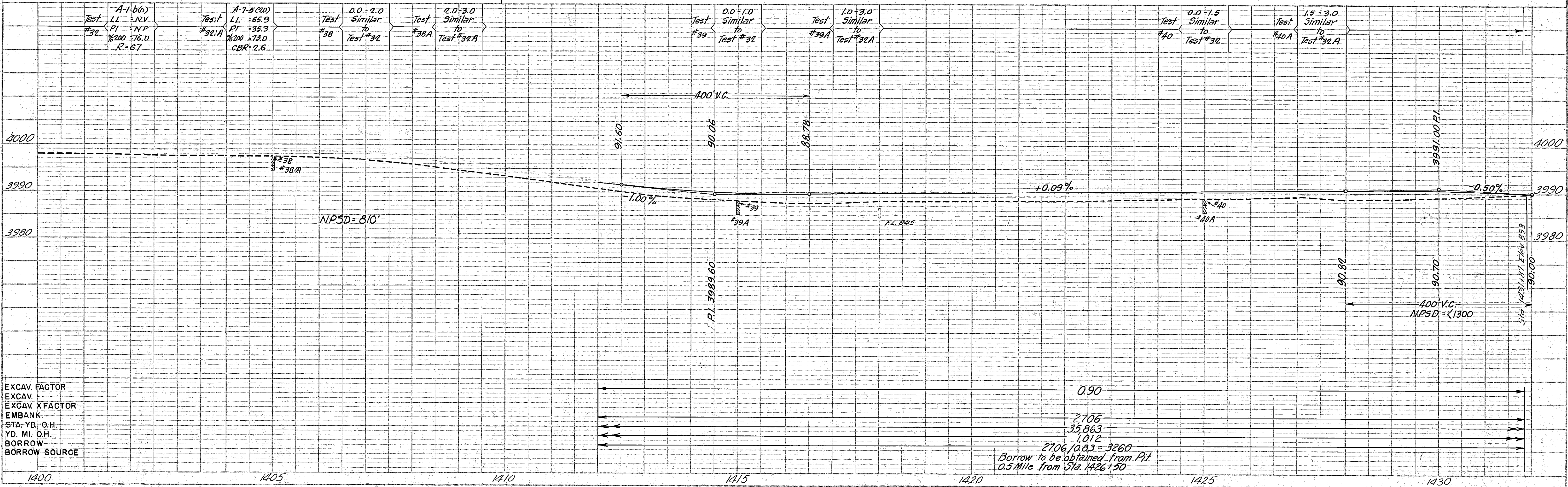


$\Delta = 5^{\circ} 53' 14''$
 $D = 1^{\circ} 00'$
 $T = 294.4'$
 $L = 588.3'$
 $R = 57300'$
 $\text{Hor. SD} > 1300'$



SE 1/4 Sec 35 T1N R53W

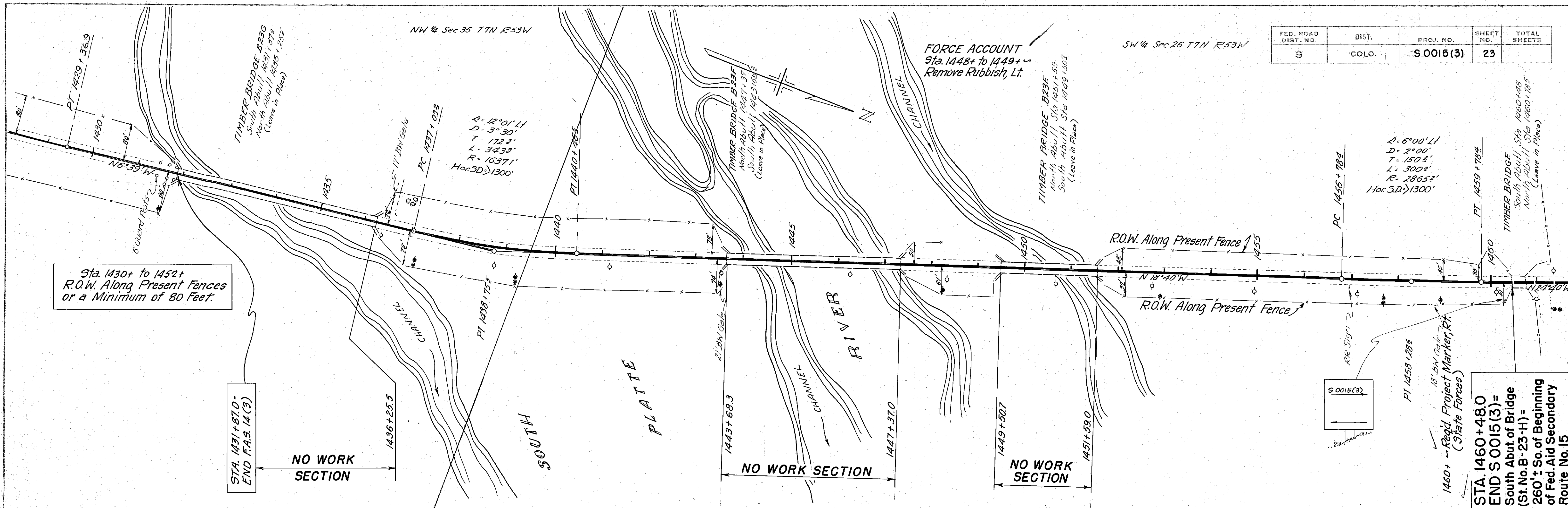
NE 1/4 Sec 35 T1N R53W



EXCAV. FACTOR
EXCAV.
EXCAV. X FACTOR
EMBANK.
STA. YD. O.H.
YD. MI. O.H.
BORROW
BORROW SOURCE

PLAN	SURVEYED	DATE
NOTE BOOK ALIGNED CHECKED NO. 16014	PLOTTED BY	DATE

PROFILE	SURVEYED	DATE
NOTE BOOK ALIGNED CHECKED NO. 16015	PLOTTED BY	DATE



FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0015(3)	23	

