

COLORADO STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 149-G R2 STATE HIGHWAY NO. 8 ARAPAHOE COUNTY

INDEX OF SHEETS

ORIG. PROJECT (F.A.P. NO. 149-G)	SHEET No. 1	Title Page
	2	Summary of Quantities and Typical Cross Section
	3 to 8	Major Bridge Details
	9	Standard Wire Fences and Marker Posts M-24 E.
	10	Picket Snow Fence Std M-25 A.
	11	Guard Fence " M-20 E.
	12	Concrete Box Culverts " M-104 B.
	13	Double Concrete Box Culverts " M-106 A.
	14	Concrete Box Culverts " M-103 C.
	15 to 32	Plan and Profile
	33 to 115	Cross Sections

EMER. RELIEF PROJECT NO. 2	Sheet No. 1	Title Page
	2	Plan, Profile & Summary of Quantities
	3	Details of Structure, Br. No. F-20-G
	4	Standard Structure Number Lettering M-10-A

FAP 149-GR2	Sheet No. 1	Title Sheet
	2	Typical Section and Summary of Quantities
	3	Standard Wire Cable and Metal Plate Guard Fence M-20 G
	4	Standard Wire Fence (Tread Wood Posts) and Marker Posts M-24 F
	5	Typical side approach roads Roadway construction Traffic signs M-2 B
	6	Plan and Profile

NOTE

It is recommended that bidders on this project go over the plan details with one of the following field representatives of this Department:

E.E. Montgomery... Div. Engr. Denver, Colo.
B.T. Miller... Res. Engr. Denver, Colo.

SCALES

ON PLAN, 1 IN. = 100 FT.

ON PROFILE, 1 IN. = 100 FT. HORIZONTAL

ON PROFILE, 1 IN. = 10 FT. VERTICAL

GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

ORIG. GROSS LENGTH OF PROJECT 51,627.8 FT. = 9.778 MI.

NET LENGTH OF PROJECT 51,627.8 FT. = 9.778 MI.

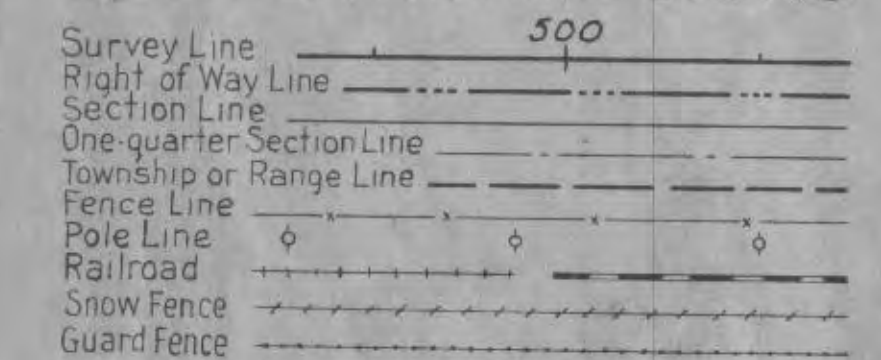
E.R.P. No. 2 GROSS LENGTH OF PROJECT 663.5 FT. = 0.125 MI.

NET LENGTH OF PROJECT 663.5 FT. = 0.125 MI.

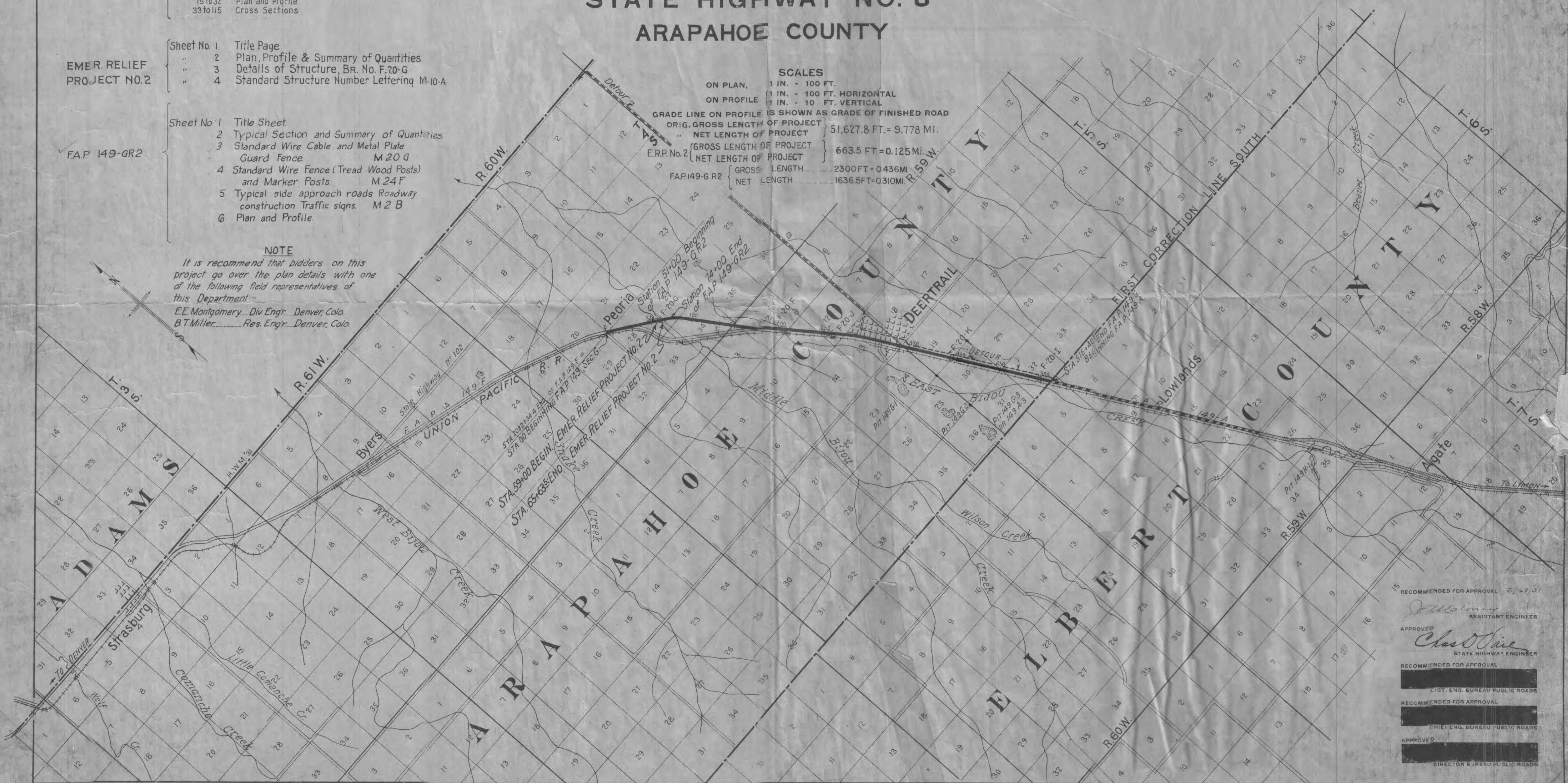
FAP 149-G R2 GROSS LENGTH 2300 FT. = 0.436 MI.

NET LENGTH 1636.5 FT. = 0.310 MI.

CONVENTIONAL SIGNS



STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
COLO.	149-G	1	1
Revised Apr. 10, 1931 H.W.M.			
Revised as Const. 3-3-32 M.S.D.-N.B.			
" For Flood Relief 7-8-35 H.W.M.			
REVISED 8-2-35 REL.			
" 8-14-35 H.W.M.			
Revised for FAP 149-G R2 Dec. 17, 1935 E.A.A.			



RECOMMENDED FOR APPROVAL 5/27/31
Assistant Engineer
APPROVED
State Highway Engineer
RECOMMENDED FOR APPROVAL
Chief Eng. Bureau Public Roads
RECOMMENDED FOR APPROVAL
Chief Eng. Bureau Public Roads
APPROVED
Director Bureau Public Roads



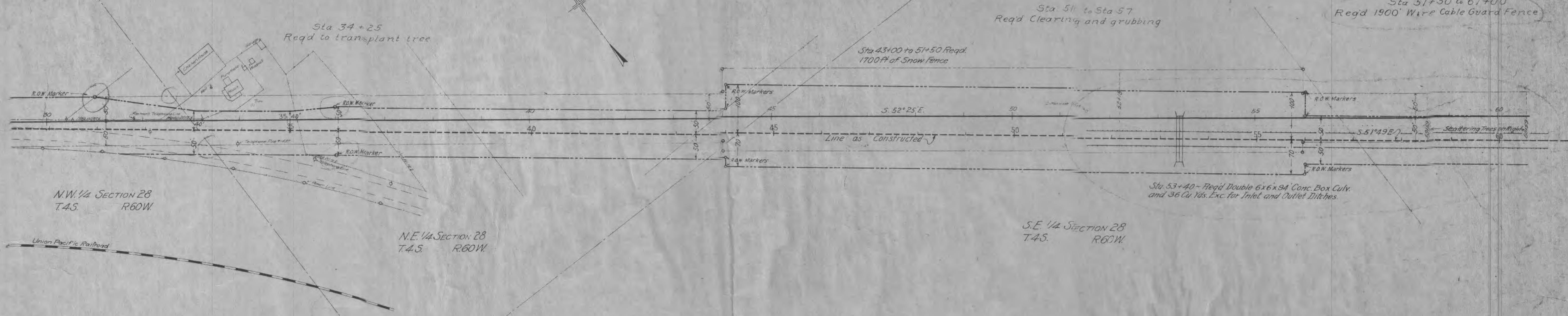
PLAN	DATE
NO.	
BY	
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DATE	
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DATE	
BY	
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DATE	

MICROFILMED

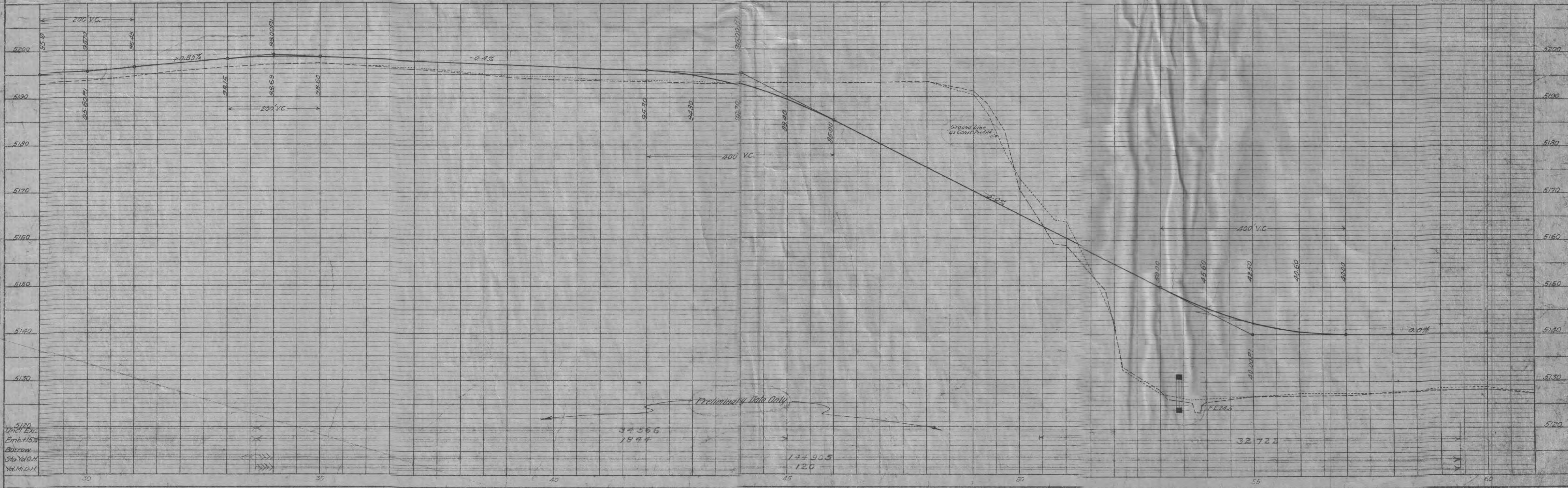
PROFILE	DATE
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BY	
CHECKED	
DATE	
NOTED	
DATE	
BY	
CHECKED	
DATE	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLORADO	149-G	16	

Revised April, 28, 1931 - R.L.
Revised as Constructed 3-3-32 H.S.D.



- Combination Wire Fencing with Wooden Posts Req'd:-
Sta 35+20 - Cross - Remove 105 ft.
Sta 36+75 - Cross - Remove 130 ft.
Sta 35+12 to 44+81 - Build - Left 1019 ft.
Barbed Wire Fencing Req'd:-
Sta 38+67 - Cross - Remove 130 ft.
Sta 43+91 - Cross - Remove 245 ft.
Sta 56+73 - Cross - Remove 130 ft.
Sta 44+81 to 178+84 Left Side - Build 13,150 ft.
Sta 35+44 to 146+27 Right Side - Build 10,707 ft.



Sta 64+79 to 70+99
Req'd 1240' Wire Cable Guard Fence

Sta. 69+55
Req'd 5' x 7' x 38" Conc. box culvert

Sta 85+28 Regd ~ 2 Gates, 18" x 52 CMR
Side Drain, left and Embankment
for Road Approach.

Sta. 84+53 ~ Reg'd 2 Gates, 18" x 52 C.M.P. Side Drain,
right, and Embankment for Road Approach.

OLD
 $\Delta 24^{\circ} 06' R.$
 $D = 1^{\circ} 00'$
 $R = 5730.9$
 $T = 1223.2'$
 $L = 24100'$

NEW (As Constructed)

$\Delta = 23^\circ 30' R.$
 $D = 1^\circ 00'$
 $R = 5730$
 $T = 1191.8$
 $L = 2350.0$

N.W. 1/4 SECTION 34
T.4S R.60W.

Barbed Wire Fencing Required.
Sta. 85+27.5 - Cross - Remove 150 ft

S.E. 1/4 SECTION 28
T.4S. R.60W.

SW 1/4 SECTION 27
T.4S. R.60W.

~~28~~
~~23~~
~~27~~
~~3~~

CONTROLLED

PLAN	SURVIVED	BY	DATE
NOTE BOOK	PILOTED		
NO	ALIGNMENT CHECKED RT. OF WAY CHECKED		

PROFILE	SURVIVED
NOTE BOOK	PLOTTED
NO.	GRAPHS CHECKED
	D. W. NOTED
	STRUCTURE NOTATIONS CHECKED

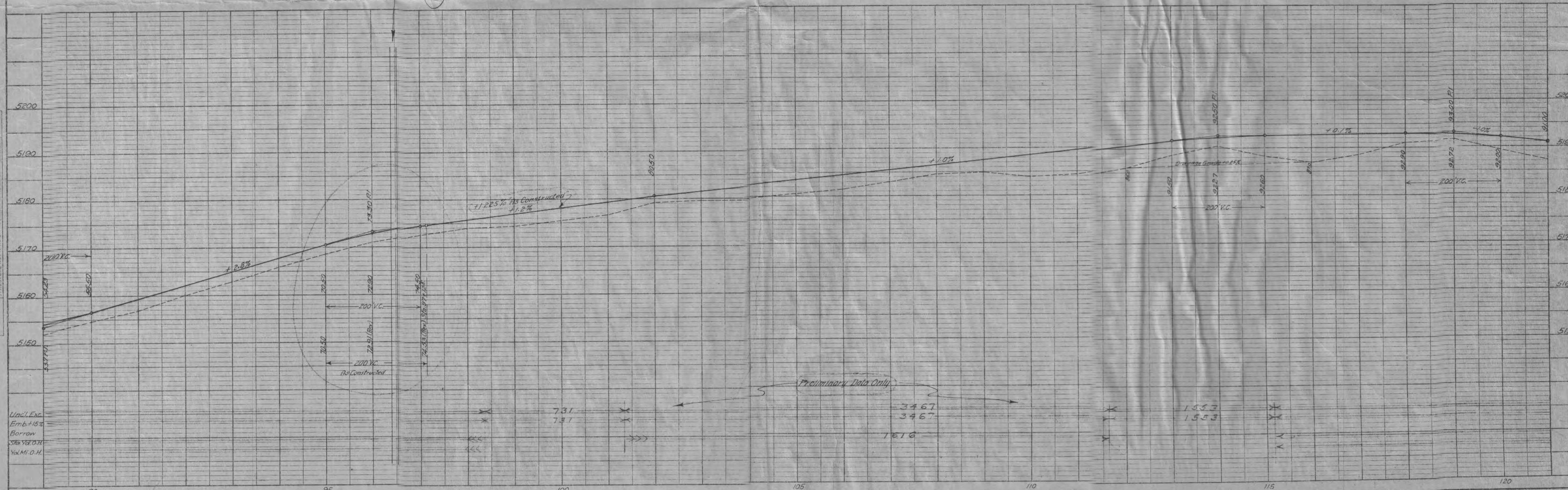
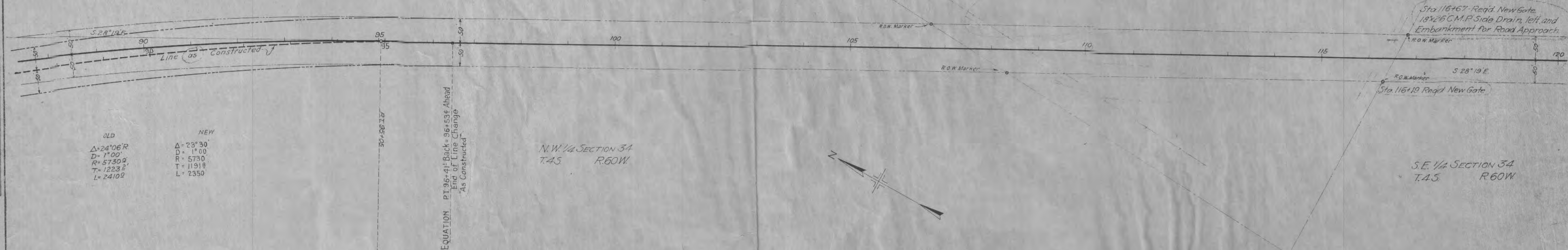
Preliminary Data Only

PLATE 1-PLAN-PROFILE O. R. B. & E. STATION
 100' 14' 5" E. OF N. 100' 14' 5" E. OF N. 100' 14' 5" E. OF N.



PLAN	DATE
	BY
	REVISIONS
	NO.
NOTE BOOK	
ALIGNED CHECKED	
BY	
DATE	

PROFILE	DATE
	BY
	REVISIONS
	NO.
NOTE BOOK	
GRADES CHECKED	
BY	
DATE	





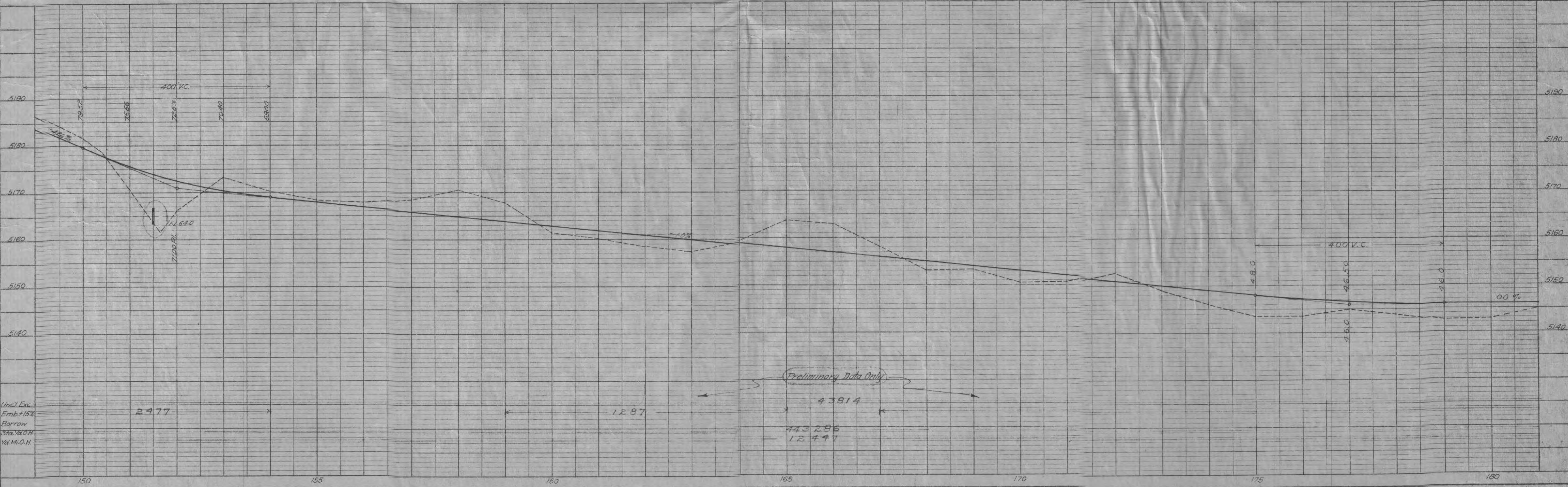
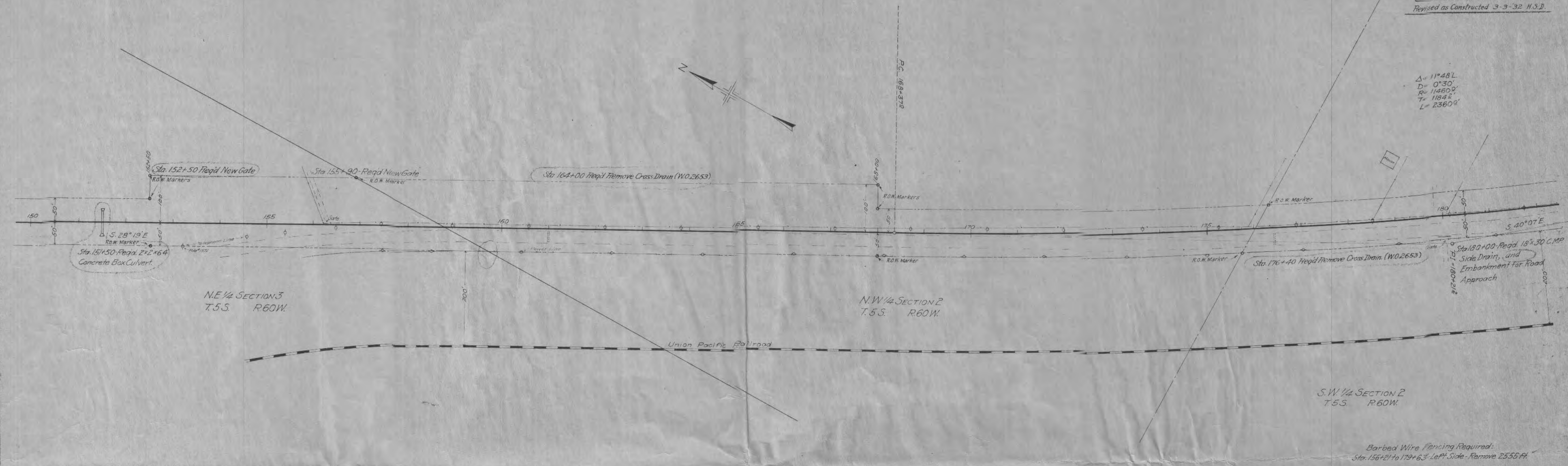
PLAN	DATE	BY	CHKD.
	NO.	NO.	NO.
PROFILE	DATE	BY	CHKD.
	NO.	NO.	NO.

NOTE: EOGA GRADINGS CHECKED BY M.L. NOTED. SPECIFICATIONS C-110.

MICROFILMED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	149-G	20	

Revised as Constructed 3-3-32 H.S.D.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	149-G	21	

Revised as Constructed 3-3-32 H.S.D.

$\Delta = 11^\circ 45'$
 $D = 0^\circ 30'$
 $R = 114600'$
 $T = 11842'$
 $L = 23600'$

Sta 187+00
 Req'd 2'x2'x52' Conc Box Culvert

Sta 192+00
 Req'd 4'x4'x52' Conc Box Culvert
 and 180 Cu Yds. Excav for Inlet Ditch

Sta 204+00 to 209+41
 Req'd Timber trestle Bridge with concrete floor
 20 spans @ 7' as per sheet No. 5
 Stream data shown on sheet No. 3
 Remove portions of concrete ford which
 interfere with new structure and maintain
 traffic over concrete ford

SW 1/4 SECTION 2
 T.5S. R.60W.

Sta 198+00
 Remove 4' Cottonwood tree

Sta 202+70
 Remove 3' Cottonwood tree

East Bijou Creek

SE 1/4 SECTION 2
 T.5S. R.60W.

NE 1/4 SECTION 11
 T.5S. R.60W.

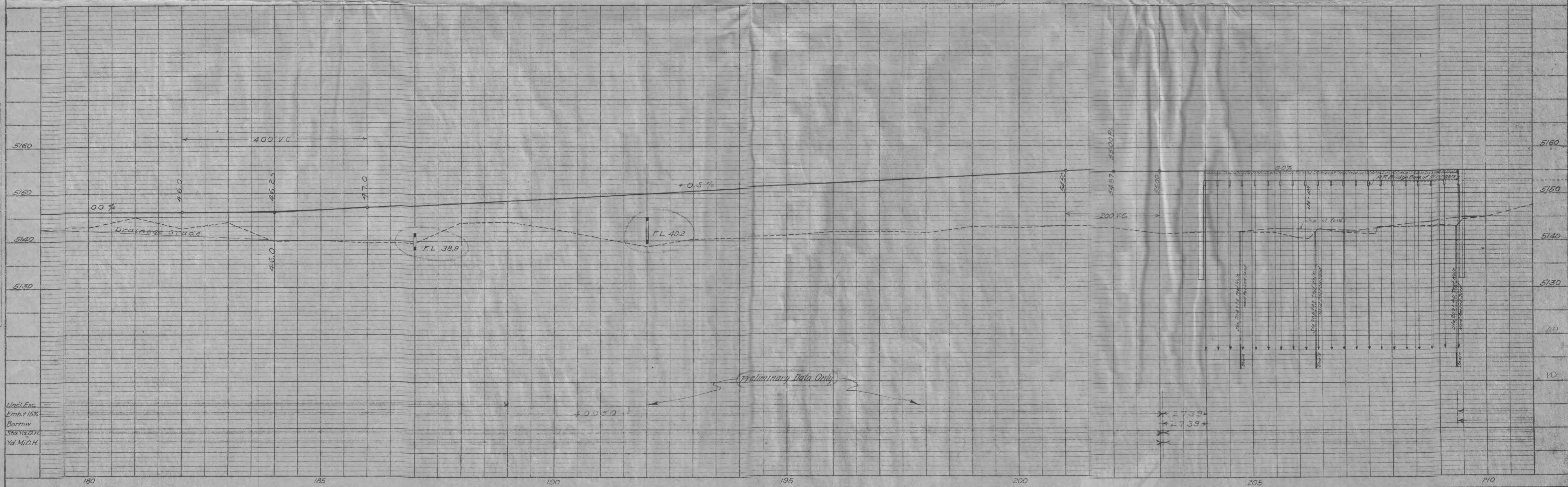
Union Pacific Railroad

Barbed Wire Fencing Required:
 Sta 180+00 to 291+69 Left Side - Remove 10,410 Ft.
 Sta 180+00 to 291+69 " " Build 9748 Ft.

DATE	BY
ENGINEER	PLANNED
ALIGNED CHECKED	PT. OF WAY CHECKED
NOTE BOOK	NO

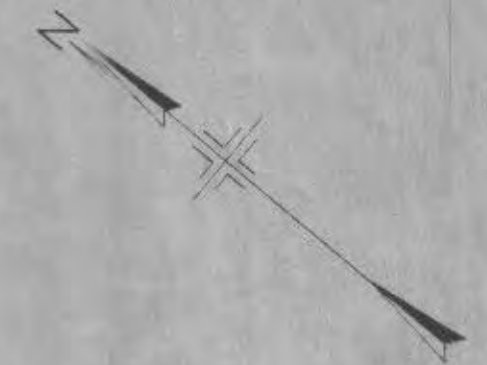
MICROFILMED

DATE	BY
PROFILE	PLANNED
NOTE BOOK	GRADES CHECKED
NO	NO



Sta. 201 to Sta. 204
Req'd 600' Wire Cable Guard Fence

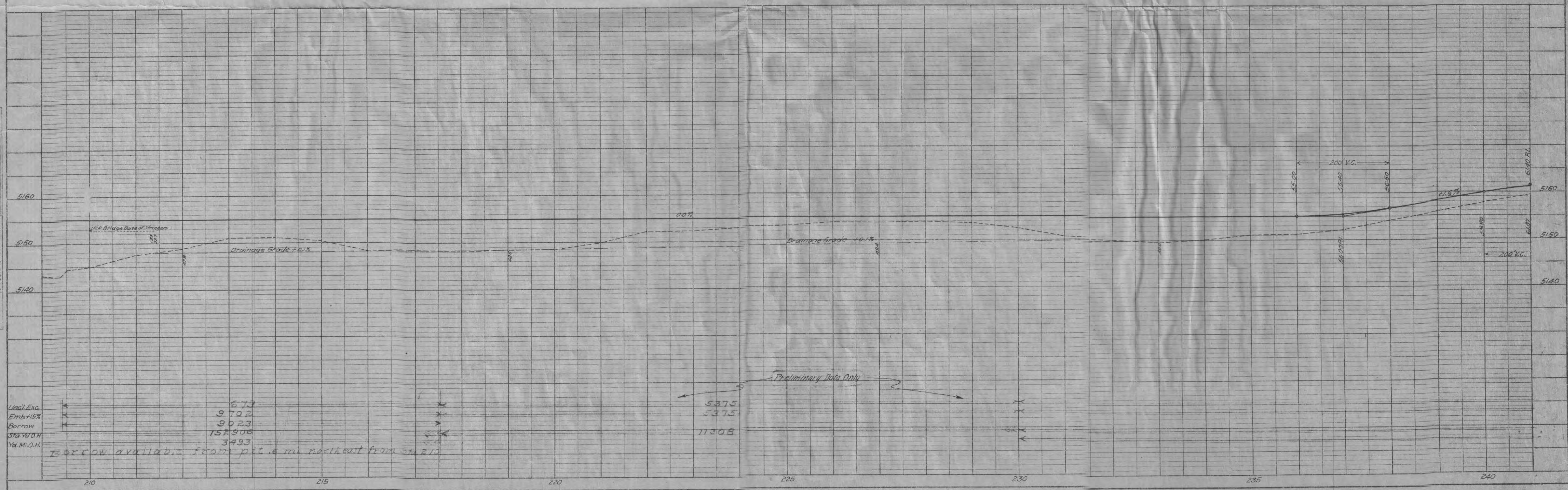
Sta. 209+41 to Sta. 211+41
Req'd 400' Wire Cable Guard Fence



DATE	
BY	
PLAN	
NO.	

MICROFILMED

PROFILE	
NO.	



Uncl. Exc. 673
Emb. 15% 970.2
Borrow 90.23
Sta. 180.00 157.900
Vol. M.O.H. 3493

Borrow available from pit 1/2 mi. northwest from Sta. 210

Preliminary Data Only

5375
5375
11305

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	COLO.	149-6	23	

Revised as Constructed 3-3-32 H.S.B.

Sta. 261+73 to 262+31
 Req'd timber trestle bridge with concrete floor.
 3 spans @ 19' as per sheet No. 6
 Also required 50 feet of wire cable guard fence at each wing.
 Stream data shown on sheet No. 3
 2483 cu yds required for channel change

N.E. 1/4 SECTION 11
 T.5S. R.60W.

Sta. 247+48 Req'd 18"x30" C.M.P. Side Drain and Embankment for Road Approach, left.

Sta. 263+24 Req'd Remove 24"x9" C.M.P. Side Drain

Sta. 266+92 Req'd Remove 2'x12'x22' Wood Box Culvert

Union Pacific Railroad

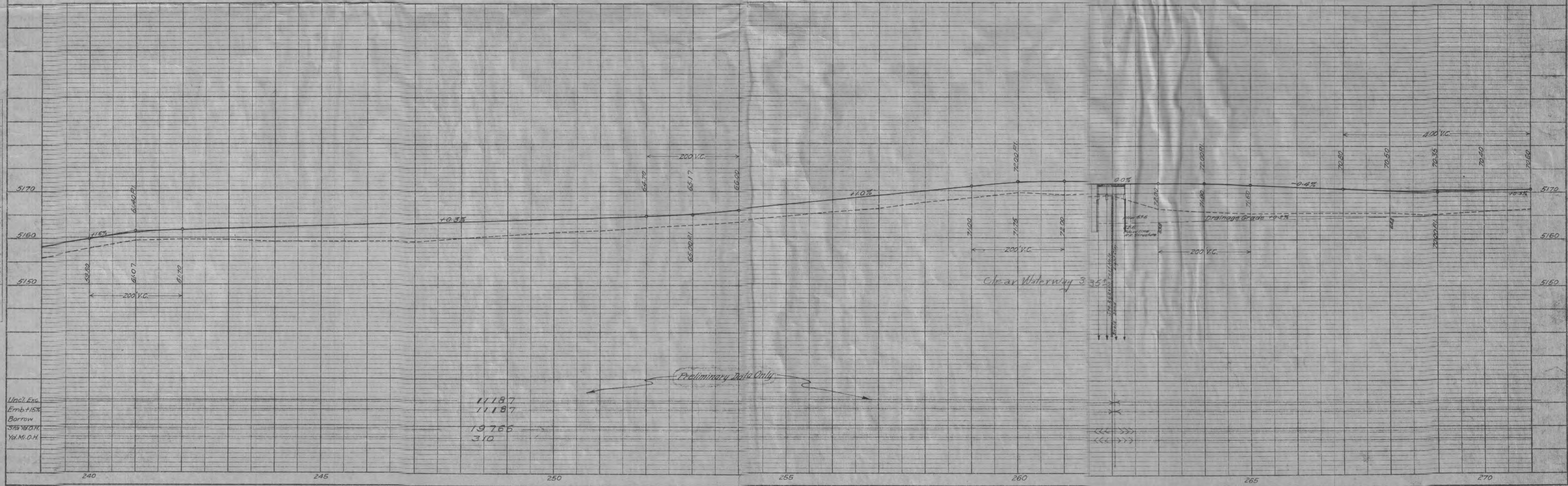
S.E. 1/4 SECTION 11
 T.5S. R.60W.

SW 1/4 SECTION 12
 T.5S. R.60W.

MICROFILMED

PLAN	DATE
SUBMITTED	
PLOTTED	
ALIGNED CHECKED	
PL. OF WAY CHECKED	
NO.	

PROFILE	DATE
SUBMITTED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATION CHNG.	
NO.	



Uncl. Exp.
 Emb + 15%
 Borrow
 Sta. 180+00
 Yd. M. O. H.

11187
 11187
 19766
 310

DEER TRAIL

S.W. 1/4 SECTION 12
T.5S. R.60W.

Sta. 276+74 Regd 18"x52" C.M.P. Side Drain left,
New Gate, and Emb. for Road Approach.

Sta. 275+55 - Req'd
as MP Side Drain

Union Pacific Railroad

SECTION 13 T.5S. R.60W.

$$\begin{aligned}\Delta &= 12^{\circ} 29' R \\ D &= 1^{\circ} 00' \\ R &= 5730^{\circ} \\ T &= 626^{\circ} \\ L &= 1248^{\circ}\end{aligned}$$

Sta 292+14-Reg'd. Remove 1x1x12
Board Box Side Drain, Place
18'x40' CMP, Side D.

429.8

WE CROFT LIVED

PLAN	SURVEILED	BY	DATE
NOTE BOOK	PLOTTED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

PROFILE	SURVEYED	BY
NOTE BOOK	PLOTTED	
	GRADES CHECKED	
	U. M. S. NOTES	

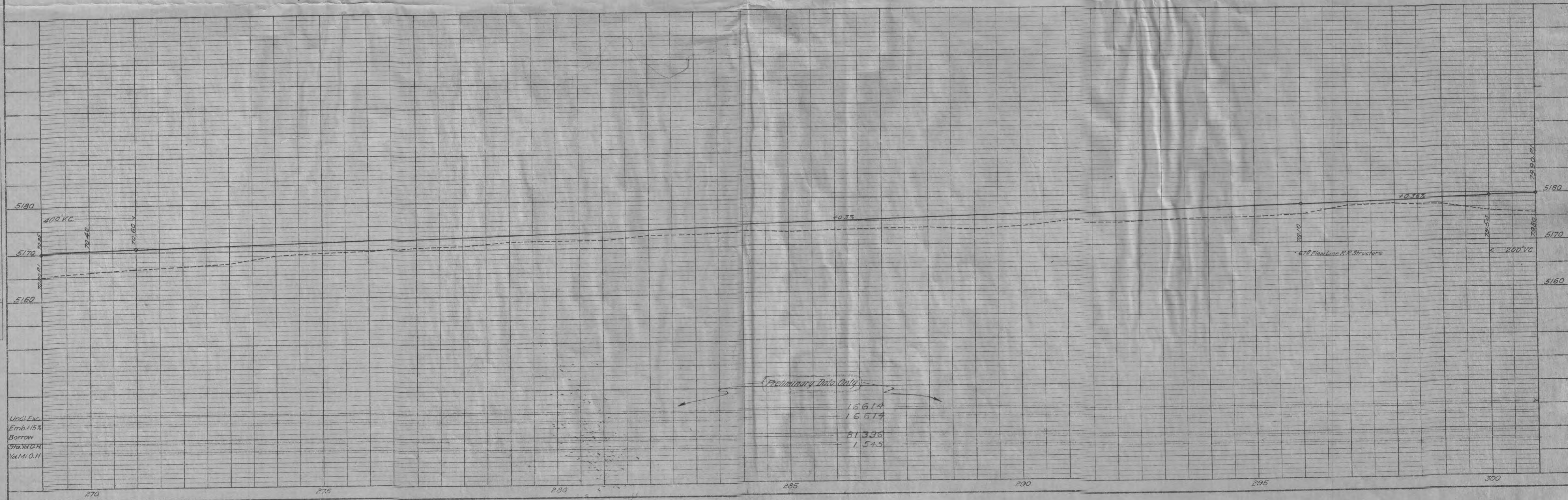
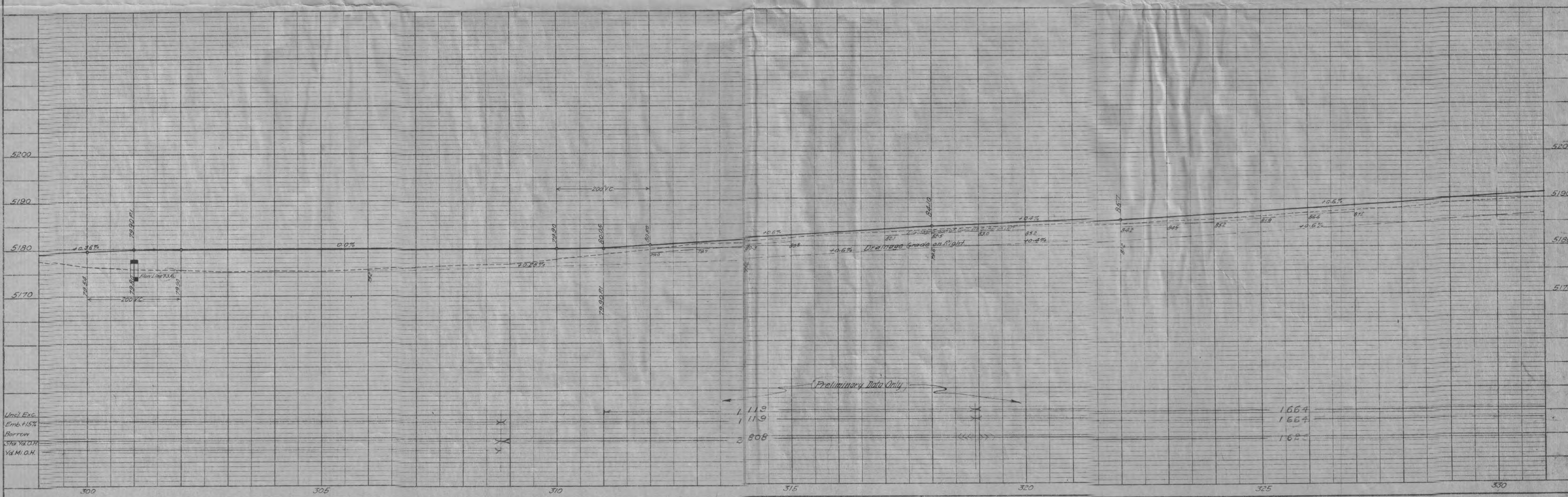
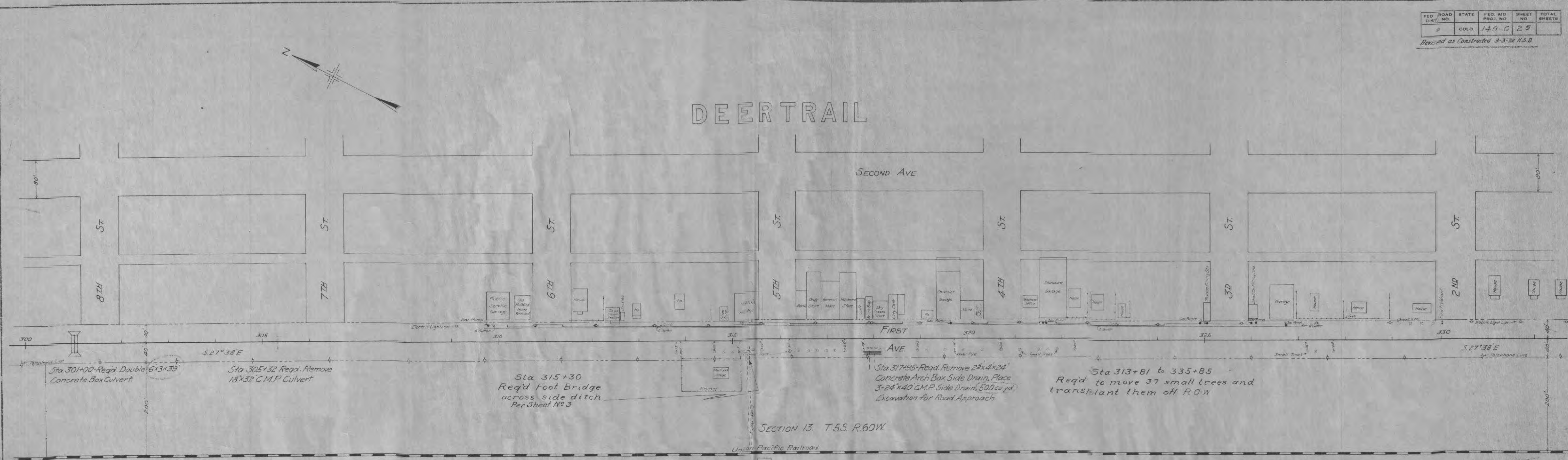


PLATE 1 - PLAN - PROFILE OF P.R. & T.E. STANDAR
WELFARE BUREAU CO. NEW YORK

MICROFILMED

PLAN	DATE
NO.	
BY	
DATE	
BY	
DATE	
BY	
DATE	



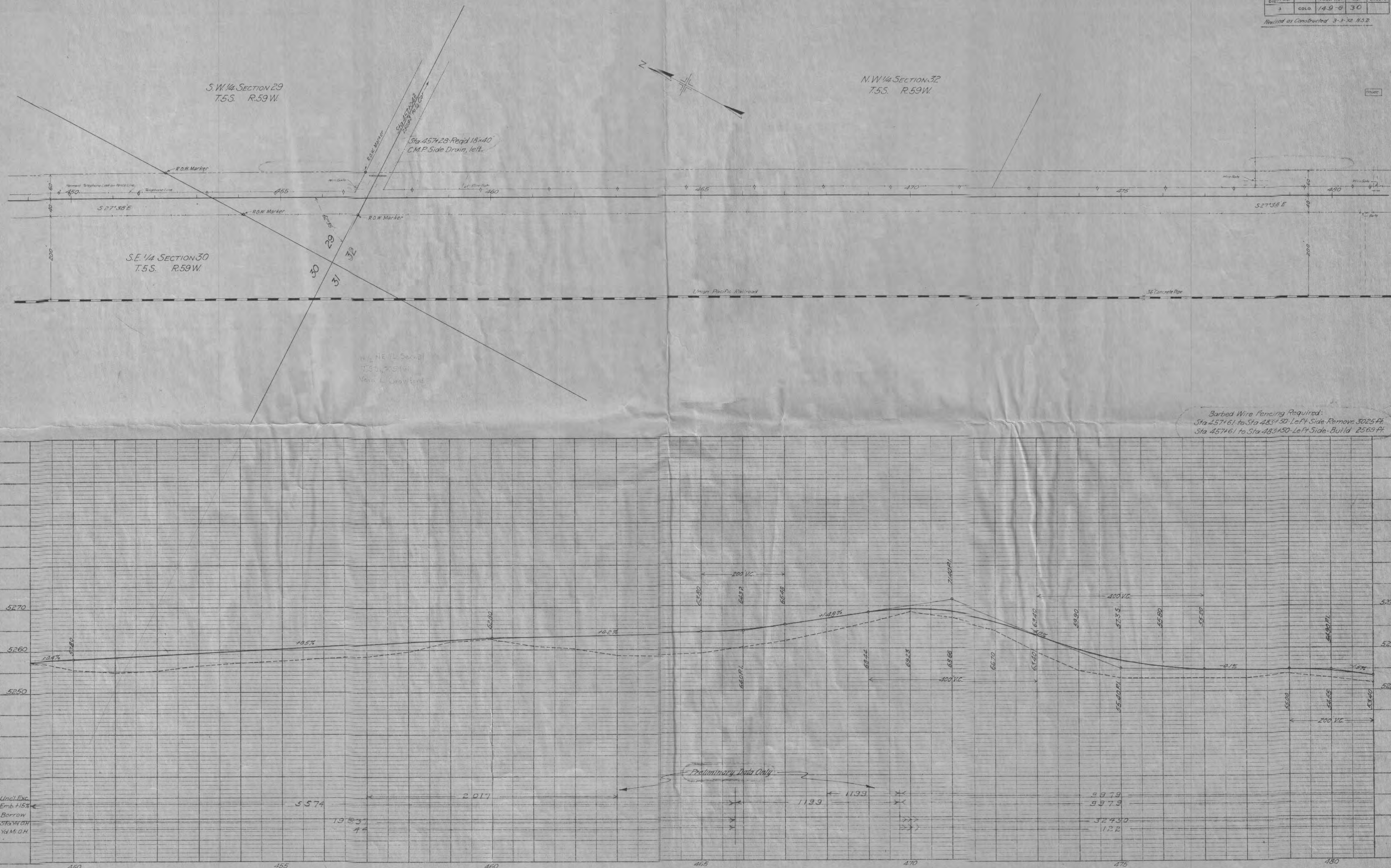
MICROFILMED

PLAN	DATE
STARTED	
PLOTTED	
NOTED	
NO	

PROFILE	DATE
STARTED	
PLOTTED	
NOTED	
NO	

FED. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	149-6	30	

Revised as Constructed 3-3-32 H.S.D.



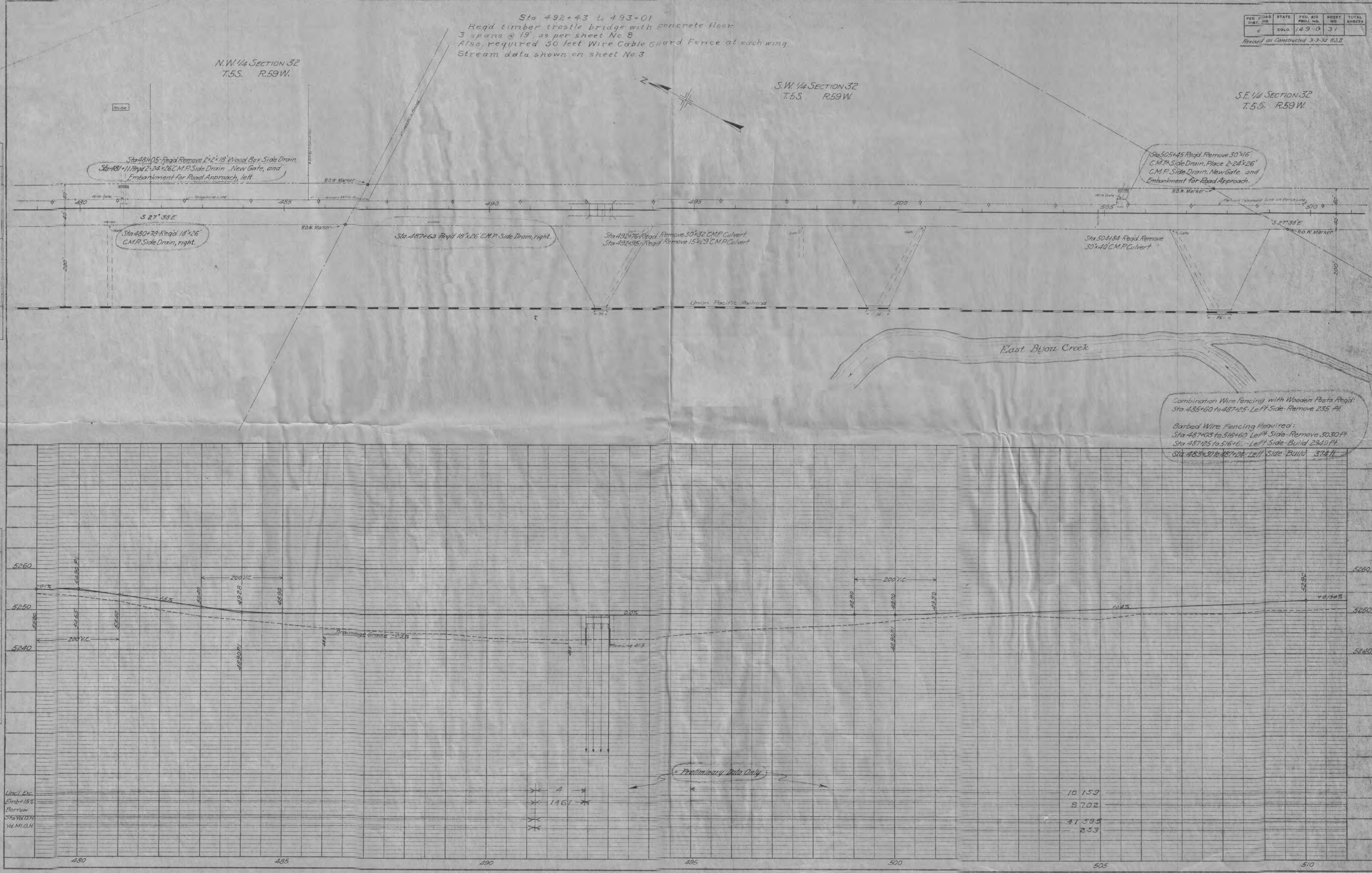
MICROFILMED

PLAN	DATE
SURVEYED	
ALIGNED	
CHECKED	
BY	

PROFILE	DATE
SURVEYED	
ALIGNED	
CHECKED	
BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	149-8	31	

Revised as Constructed 3-3-32 H.S.D.



PROFILE	BY	DATE
NOTED		
SKETCHED		
GRASS CHECKED		
9 MEANOTED		
STRUCTURE NOTATING CHD		
NO		

Revised as Constructed 3-3-32 H.S.D.

STATION 1400 OF F&E ADSECTION C
AND BEGINNING OF F&E SECTION A

Preliminary Data Only

