

COLORADO

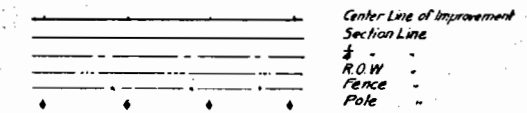
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 242-D STATE HIGHWAY NO. 4. MESA COUNTY

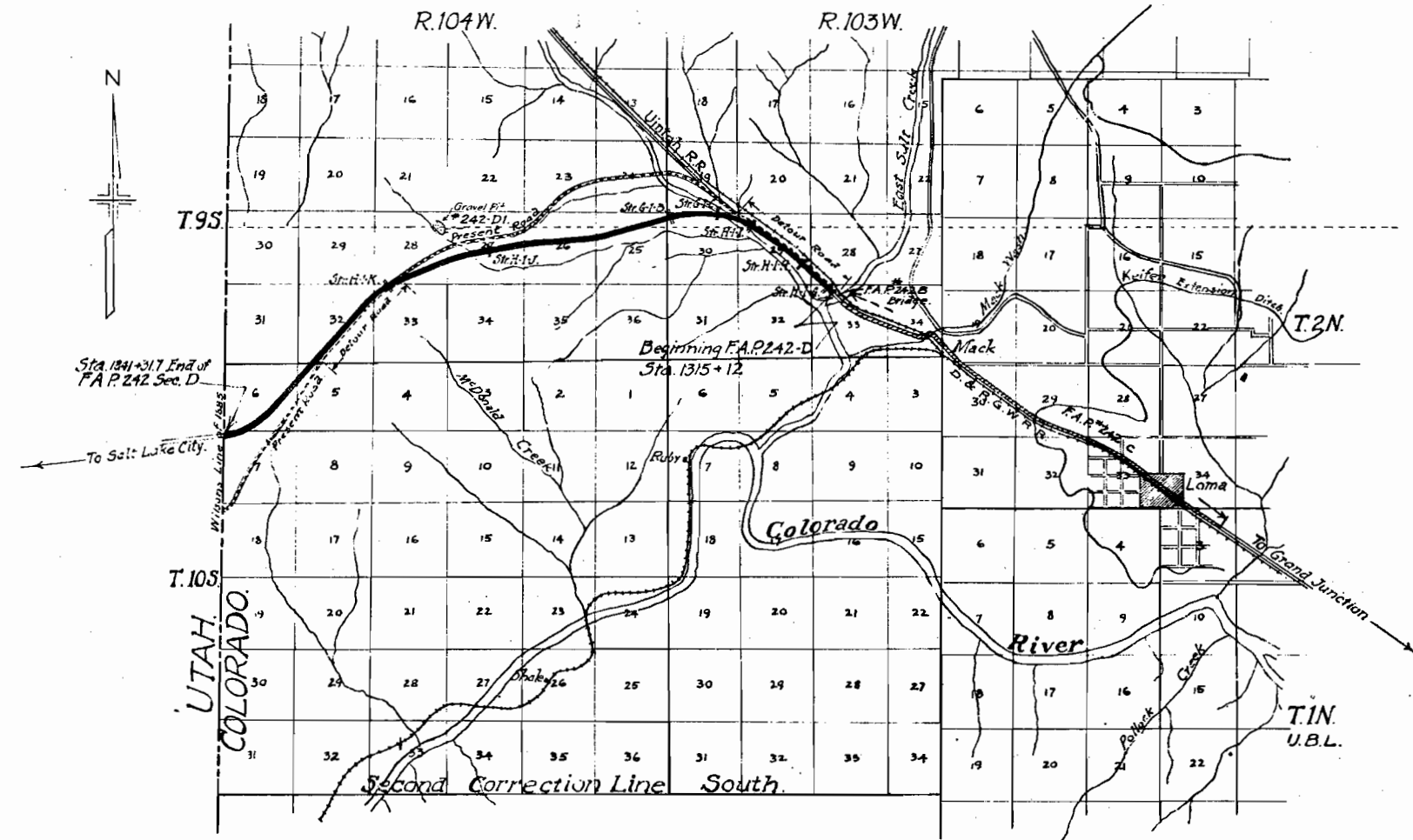
INDEX OF SHEETS

- 1 Title Sheet and Sketch Map.
- 2 Typical Cross Section of Improvement and Summary of Quantities.
- 3 Timber Pile Trestle, 1@27'-2@19' Str. H-1-G.
- 4 " " " 2@19' Str. H-1-H.
- 5 " " " 1@19' Str. H-1-I.
- 6-6a 60' I-Beam Span Bridge. Str. G-1-C.
- 7 Timber Pile Trestle, 1@23' Str. G-1-D.
- 8 " " " 1@23' Str. H-1-J.
- 9 Timber Trestle, Framed Bents, 1-@23' Str. H-1-K.
- 10 Standard Concrete Box Culvert M-103-C.
- 11 Standard Headwalls for Culverts M-102-D.
- 12 Standard Guard Fence M-20-E.
- 13 Standard Wire Fence and Marker Posts M-24-E.
- 14-31 Plan and Profile Sheets.
- 32-106 Cross Section Sheets.

CONVENTIONAL SIGNS



SCALES
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 } 52,183.0 FT. = 9.883 MI.
NET LENGTH OF PROJECT }



Scale - 1 in. = 1 mi.

RECOMMENDED FOR APPROVAL 2/19/34
APPROVED
RECOMMENDED FOR APPROVAL
RECOMMENDED FOR APPROVAL
APPROVED

PET. ROAD DIST. NO.	STATE	PET. AND ROAD NO.	DATE
2	COLD.	242-D	1964

TYPICAL CROSS SECTION



Surfacing for Detour, 3556 Tons
Overhaul on Surfacing for Detour, 11,124 Ton Miles.

SUMMARY OF CONSTR. QUANTITIES

R.O.W Markers	Notes
3 at 1315+12	1 at 1623+50
2 = 1330+84	
2 = 1360+45	1 = Right = 1651+00
2 = 1383+85	2 = 1665+00
4 = 1400+08	
2 = 1458+30	
2 = 1471+85	
2 = 1513+45	
2 = 1540+10	
2 = 1566+77	
2 = 1593+60	
2 = 1620+35	
2 = 1652+00	
2 = 1682+43	
2 = 1722+15	
2 = 1744+58	
2 = 1765+70	
2 = 1805+90	
2 = 1841+31.7	
41 Total	4 Total

LIST OF STRUCTURES

Station	Description	Remove Structures	Reinforcing Steel Lbs.	Unclassified Excavation Cu. Yds.	Embankment Cu. Yds.	Concrete Cu. Yds.		Str. Excav. Cu. Yds.	Corrugated Metal Pipe Lins.	15"	18"	24"	30"	36"	48"	60"	72"	96"	120"	144"	168"	192"	216"	240"	264"	288"	312"	336"	360"	384"	408"	432"	456"	480"	504"	528"	552"	576"	600"	624"	648"	672"	696"	720"	744"	768"	792"	816"	840"	864"	888"	912"	936"	960"	984"	1008"	1032"	1056"	1080"	1104"	1128"	1152"	1176"	1200"	1224"	1248"	1272"	1296"	1320"	1344"	1368"	1392"	1416"	1440"	1464"	1488"	1512"	1536"	1560"	1584"	1608"	1632"	1656"	1680"	1704"	1728"	1752"	1776"	1800"	1824"	1848"	1872"	1896"	1920"	1944"	1968"	1992"	2016"	2040"	2064"	2088"	2112"	2136"	2160"	2184"	2208"	2232"	2256"	2280"	2304"	2328"	2352"	2376"	2400"	2424"	2448"	2472"	2496"	2520"	2544"	2568"	2592"	2616"	2640"	2664"	2688"	2712"	2736"	2760"	2784"	2808"	2832"	2856"	2880"	2904"	2928"	2952"	2976"	3000"	3024"	3048"	3072"	3096"	3120"	3144"	3168"	3192"	3216"	3240"	3264"	3288"	3312"	3336"	3360"	3384"	3408"	3432"	3456"	3480"	3504"	3528"	3552"	3576"	3600"	3624"	3648"	3672"	3696"	3720"	3744"	3768"	3792"	3816"	3840"	3864"	3888"	3912"	3936"	3960"	3984"	4008"	4032"	4056"	4080"	4104"	4128"	4152"	4176"	4200"	4224"	4248"	4272"	4296"	4320"	4344"	4368"	4392"	4416"	4440"	4464"	4488"	4512"	4536"	4560"	4584"	4608"	4632"	4656"	4680"	4704"	4728"	4752"	4776"	4800"	4824"	4848"	4872"	4896"	4920"	4944"	4968"	4992"	5016"	5040"	5064"	5088"	5112"	5136"	5160"	5184"	5208"	5232"	5256"	5280"	5304"	5328"	5352"	5376"	5400"	5424"	5448"	5472"	5496"	5520"	5544"	5568"	5592"	5616"	5640"	5664"	5688"	5712"	5736"	5760"	5784"	5808"	5832"	5856"	5880"	5904"	5928"	5952"	5976"	6000"	6024"	6048"	6072"	6096"	6120"	6144"	6168"	6192"	6216"	6240"	6264"	6288"	6312"	6336"	6360"	6384"	6408"	6432"	6456"	6480"	6504"	6528"	6552"	6576"	6600"	6624"	6648"	6672"	6696"	6720"	6744"	6768"	6792"	6816"	6840"	6864"	6888"	6912"	6936"	6960"	6984"	7008"	7032"	7056"	7080"	7104"	7128"	7152"	7176"	7200"	7224"	7248"	7
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TOTAL TREATED TIMBER		2204	Dg Ft
UNTREATED TIMBER			
HAIL MAIL POSTS		4	Dg Ft
TOTAL UNTREATED TIMBER		4	Dg Ft
ASPHALT PAVEMENT SURFACE (sq. Yards)		125	Sq Yd

ONE - BENT		Loss	14.0	Length
SPILING-TREATED	5	Pc1 = 2.0	1.0	5.0
STRINGER BRACING	1	Pc1 = 1.0	1.0	5.0
CAP	1	Pc1 = 1.0	1.0	5.0
SWAY BRACES	2	Pc1 = 1.0	1.0	5.0
STRINGER SPLICES (SIZE)	2	Pc1 = 2.0	4.0	5.0
TOTAL TREATED			7.0	5.0

ONE WING	
DESCRIPTION	LENGTH OF WINGS
FLYING-TREATED	30 20 10 FT. 50 10 FT.

TREATED TIMBER			
CURB PLANING	4	6	1 @ 10' = 10' 0 ft.
SACKING PLANING	Number	8	
Size	4	12' x 10' = 120' 0 ft.	
TOTAL TREATED TIMBER			340
UNTREATED TIMBER			
Number	1		
Size	2	8' x 10' = 20' 0 ft.	
HANDRAILS	343	Number	5
Size	2	8' x 10' = 14' 0 ft.	
HANDRAIL POSTS	3	Number	3
Size	6	6' x 4' = 24' 0 ft.	
TOTAL UNTREATED TIMBER			58' 0 ft.

BOLTS WASHERS FOR ONE SPAN OF SUPERSTRUCTURE					
DESCRIPTION	SIZE	101.5' SPAN		241.5' SPAN	
		N ^o	WEIGHT, LBS	N ^o	WEIGHT, LBS
Posts to Rails	" 6 "	10	1.0	1	1.0
Posts to Wheel Guards	" 8 12 "	11	1.1	1	1.1
Posts to Stringers	" 6 "	10	1.0	1	1.0
Posts to Stringers	" 8 12 "	11	1.1	1	1.1
Posts to Caps	" 6 "	2	.25	2	.25
Wheel Guards to Stringers	" 10 16 "	34	3.4	14	3.6
Stringer Splices	" 12 "	15	1.5	15	1.5
Washers and Caps	" 1 1/2 "	8	.8	15	1.5
TOTAL WEIGHT			24.4		24.4

BOLTS & WASHERS FOR ONE BENT						
DESCRIPTION	SIZE	NO. PER	LENGTH	WEIGHT EACH	WEIGHT	
Caps to Piles	1/2" Dia. Bolt	5	24"	3 lbs.	15	
Connectors to Piles	1/2" Bolt	5	24"	3 lbs.	15	
Swivelbrackets to Caps	1/2" Bolt	1	18"	2 lbs.	2	
Washer	1/2" Dia.	1	18"	1 lb.	1	
Cap to Bolt	1/2" Dia.	1	18"	1 lb.	1	
SPACER CHAINS	1/2" Dia.	1	18"	1 lb.	1	

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BOLTS & WASHERS FOR ONE WING					
Plats to Rails	Bolts	3/8"	10"	114 Lbs	411
Plats to Piles	do	3/8"	7 1/2"	218 Lbs	131
Piles to Curb Plank	do	3/8"	3"	218 Lbs	71
100 Cast Iron O.G.	Washers	3/8"	2 1/4"	0.15 Lbs	18
TOTAL WEIGHT					640

DESCRIPTION	ITEM	QNTY	UNIT
One Spd of Superstructure	100 Common	2	lbs
	400 Common	135	lbs
One Bent	7 Wire Spikes	6	lbs
One Abutment	400 Common	6	lbs
	7 Wire Spikes	27	lbs
	7 Wire Spikes	7	lbs

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ONE SPAN OF SUPERSTRUCTURE				
UNTREATED TIMBER		19% SPAN		27% SPAN
DESCRIPTION				
HANDRAILS	345	11.5	3.5-20.0	3.5-20.0
		SIZE		
			1.5-20.0	1.5-20.0
HANDRAIL POSTS	345	11.5	6.0-10.0	4.0-10.0
		SIZE		
			1.5-10.0	1.5-10.0
TOTAL UNTREATED TIMBER			178.5	126.5

TREATED TIMBER			
DOORING	223	Number	91
		Size	3 x 6
BRIDGING		Number	24
		Size	2 x 6
WHEEL GUARDS		Number	1
		Size	6 x 6
5" RINGERS		Number	2
		Size	4 x 20 x 20
STRINGERS	Two Multis	Number	1
	Great One	Size	8 x 20 x 20
TOTAL TREATED TIMBER (Single Size)			
TOTAL TREATED TIMBER (Double Size)			
ASPHALT PLANT W/REINFORCED SLAB			

SUMMARY OF QUANTITIES				
UNTREATED TIMBER				
1	SPANS	②	12' x 6" Each	4.54
2	BENTS	③	24' x 6" Each	4.54
3	ABUTMENTS	④	36' x 6" Each	4.54
4	WINGS	⑤	24' x 6" Each	2.32
				TOTAL
				15.94
TREATED TIMBER				
1	SPANS	②	12' x 6" Each	10.56
2	BENTS	③	24' x 6" Each	1.56
3	ABUTMENTS	④	36' x 6" Each	4.98
4	WINGS	⑤	36' x 6" Each	3.60
				TOTAL
				20.70
PILEING - TREATED				
1	BENTS	②	12' x 6" Each	2.88
2	ABUTMENTS	③	24' x 6" Each	2.88
3	WINGS	④	36' x 6" Each	2.70
				TOTAL
				8.46

STRUCTURAL EXCAVATION
DRY COMMON
WET COMMON

ASPHALT PAVEMENT		WEARING SURFACE			
1/1	SPANS	• 16.25	Sol. Ft. Each	16.25	Sol. Ft.
2	ABUTMENTS	• 16.25	Sol. Ft. Each	16.25	Sol. Ft.
				TOTAL	32.50

ASPHALT FELT 32" wide		TOTAL	
2 ABUTMENTS	e 1	28	So. Ft.
4 SPANS	e 17 1/2	17 35	So. Ft.

DRAIN PIPE & FLANGE	TOTAL	1763.50
1-Pc 3" Std Pipe 26" long with 1- 3" C Flange		6 Pieces
PILE SHOES-CAST IRON @ 35 Lbs. each	TOTAL	22 Shoes

GENERAL NOTES

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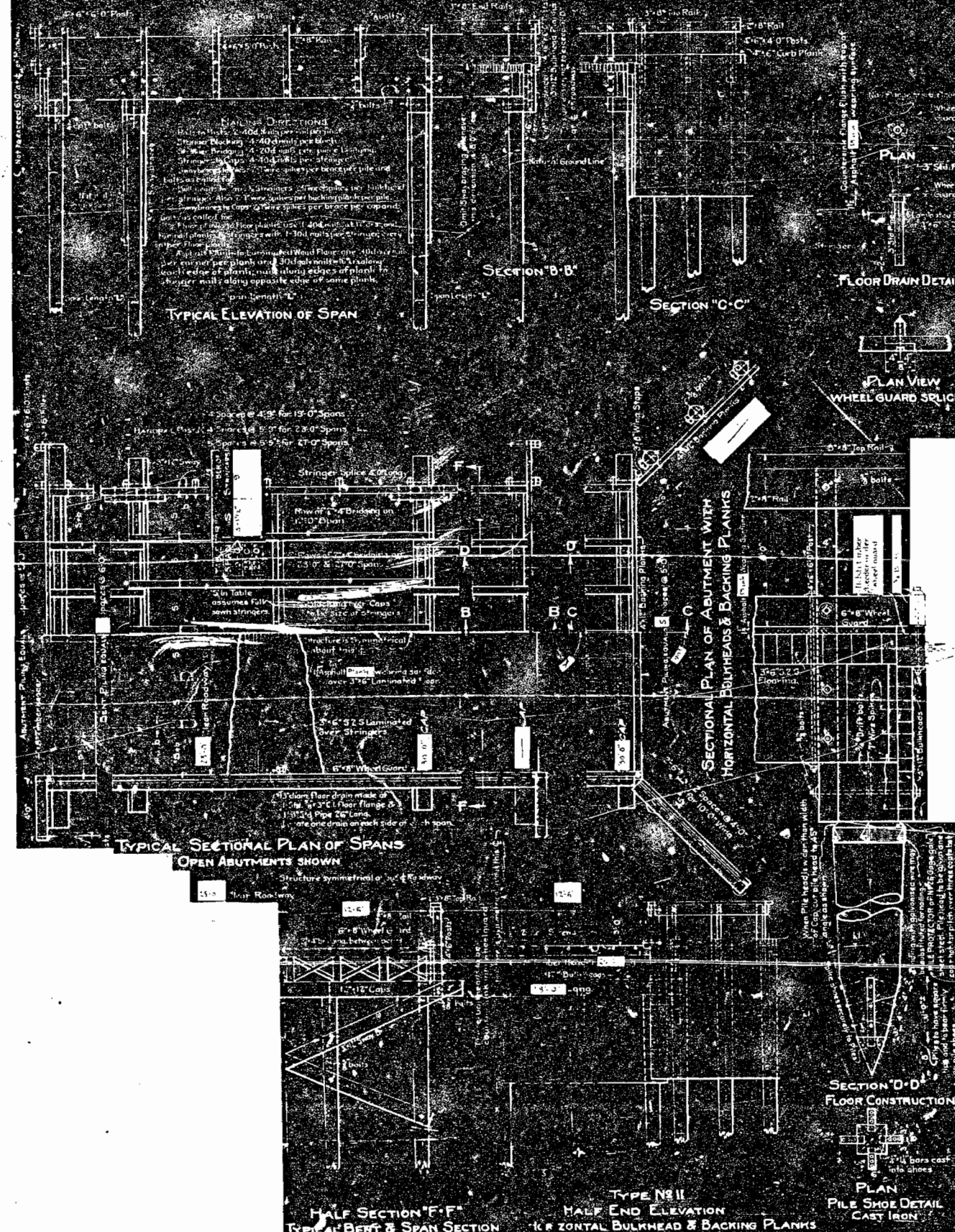
STRUCTURE REQUIRED

4. SPAN 145 FT. TYPE OF ABUTMENT 1
 5. FEAT N END 2 FEAT S END
 10 FEAT N END 10 FEAT S END

COLORADO

STATE HIGHWAY DEPARTMENT
TIMBER TRESTDLE WITH
6" LAMINATED FLOOR

Address _____ Sta. 0320+41 E. 32+34
Near _____ Sec. 33 T. 19 S. R. 03 W
Designed by CEW Approved by E. J. Barber
Made by FEW Bridge Engineer
Checked by FEW Date: May 22, 1929



ONE ABUTMENT

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
TREATED TIMBER	15.0	cu ft	1.20	18.00
UNTREATED TIMBER	1.0	cu ft	0.10	0.10
TOTAL	16.0	cu ft		18.10

ONE SPAN OF SUPERSTRUCTURE

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
UNTREATED TIMBER	1.0	cu ft	0.10	0.10
TREATED TIMBER	1.0	cu ft	1.20	1.20
TOTAL	2.0	cu ft		1.30

ONE BENT

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
TREATED TIMBER	1.0	cu ft	1.20	1.20
UNTREATED TIMBER	1.0	cu ft	0.10	0.10
TOTAL	2.0	cu ft		1.30

ONE WING

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
TREATED TIMBER	1.0	cu ft	1.20	1.20
UNTREATED TIMBER	1.0	cu ft	0.10	0.10
TOTAL	2.0	cu ft		1.30

BOLTS & WASHERS FOR ONE SPAN OF SUPERSTRUCTURE

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
Bolts	1.0	lb	0.05	0.05
Washers	1.0	lb	0.05	0.05
TOTAL	2.0	lb		0.10

BOLTS & WASHERS FOR ONE BENT

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
Bolts	1.0	lb	0.05	0.05
Washers	1.0	lb	0.05	0.05
TOTAL	2.0	lb		0.10

BOLTS & WASHERS FOR ONE ABUTMENT

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
Bolts	1.0	lb	0.05	0.05
Washers	1.0	lb	0.05	0.05
TOTAL	2.0	lb		0.10

BOLTS & WASHERS FOR ONE WING

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
Bolts	1.0	lb	0.05	0.05
Washers	1.0	lb	0.05	0.05
TOTAL	2.0	lb		0.10

SUMMARY FOR HARDWARE

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
Bolts	1.0	lb	0.05	0.05
Washers	1.0	lb	0.05	0.05
TOTAL	2.0	lb		0.10

SUMMARY OF QUANTITIES

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
SPANS	1.0	cu ft	1.20	1.20
BENTS	1.0	cu ft	1.20	1.20
ABUTMENTS	1.0	cu ft	1.20	1.20
WINGS	1.0	cu ft	1.20	1.20
TOTAL	4.0	cu ft		4.80

STRUCTURAL EXCAVATION

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
Excavation	1.0	cu yd	2.00	2.00
TOTAL	1.0	cu yd		2.00

ASPHALT PLANK WEARING SURFACE

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
Asphalt Plank	1.0	sq ft	0.10	0.10
TOTAL	1.0	sq ft		0.10

DRAIN PIPE & FLANGE

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
Drain Pipe	1.0	ft	0.10	0.10
TOTAL	1.0	ft		0.10

PILE SHOES-CAST IRON

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
Pile Shoes	1.0	each	0.10	0.10
TOTAL	1.0	each		0.10

GENERAL NOTES

1. All work shall be done in accordance with the specifications of the Colorado State Highway Department.
2. All timber shall be treated with preservative.
3. All bolts and washers shall be galvanized.
4. All steel shall be A36.
5. All concrete shall be 2800 psi.
6. All masonry shall be 2800 psi.
7. All foundations shall be on bedrock.
8. All foundations shall be on bedrock.
9. All foundations shall be on bedrock.
10. All foundations shall be on bedrock.

STRUCTURE REQUIRED

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
Structure	1.0	each	1.00	1.00
TOTAL	1.0	each		1.00

LOADING DATA

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
Loading	1.0	each	0.10	0.10
TOTAL	1.0	each		0.10

COLORADO STATE HIGHWAY DEPARTMENT
TIMBER TRELLIS WITH 6" LAMINATED FLOOR
 Across: WASTEWAY
 Sta. 334+71 to 345+11
 Near: MACH. S. 211 33 109 W
 Designed by: R.S.M. Approved by: R.S.M.
 Made by: E.S. Bridge Engineer
 Checked by: E.S. Date: May 22, 1929



NOTE: -institute	1	Birds	-	-	-	-	-	-	-
	2	Abutments	--	--	--	--	--	6	-
	3	Wings	--	--	--	--	--	1	-
		TOTAL WEIGHT		2			95		10

* This includes 6 3" x 10 1/2" pipes plus 2" Pipe.

STRUCTURAL EXCAVATION			
DRY COMMON		C-745	
NET COMMON		C-746	
ASPHALT FLANK		WEARING SURFACE	
1 SPANS	4.15 Sq Ft Each	4.74	Sq Ft
2 ADJUSTMENTS	4.15 Sq Ft Each	8.30	Sq Ft
		TOTAL	5.00
ASPHALT FLEET 32" WIDE			
2 ADJUSTMENTS	14.50 Sq Ft ea	28.00	Sq Ft
1 SPANS	5.00 Sq Ft ea	5.00	Sq Ft
		TOTAL	5.00
DRAIN PIPE & FLANGE			
4" 3/4" DIA PIPE 1' x 3' 11" long		2	Pieces
PILE SHOES CASTIRON @ 35 Lbs each		2	Shoes

LOADING DATA
LIVE LOAD - AASHO JULY 1927 CLASS "B"
DEADLOAD - Assumes 15 lbs per sq ft MAINT. SURFACE
 This includes 1/2" ASPHALT FLOOR 1" CONCRETE

STATE OF COLORADO BY W. STANLEY P. LANE, SECRETARY

COLORADO

STATE HIGHWAY DEPARTMENT

**TIMBER TREESTLE WITH
6" LAMINATED FLOOR**

Across _____

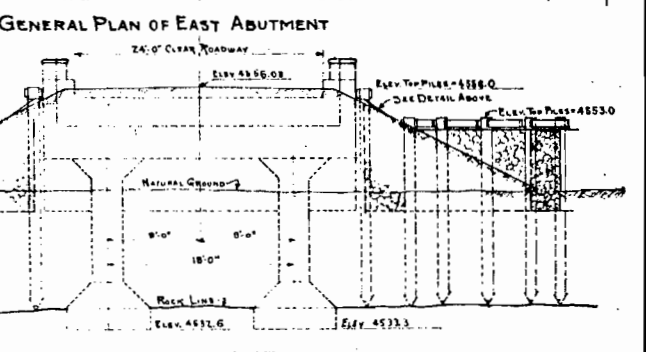
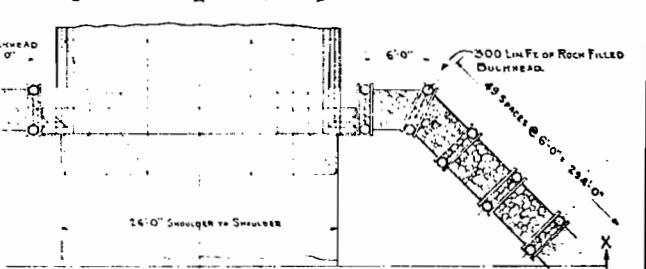
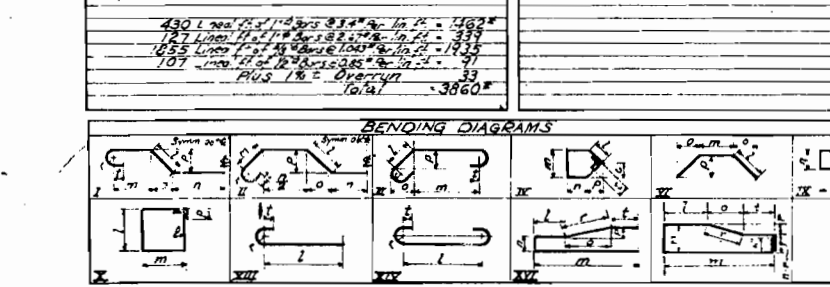
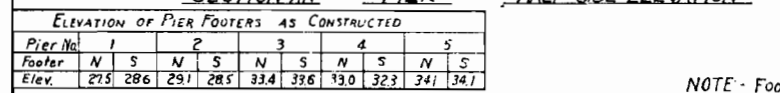
Sta. 331112.7 to 331493

near Match Sec. 13 T. 33 S. R. 68 W

Designed by ESSE Approved by J. J. Banks

Made by ESSE Bridge Engineer _____

Checked by RESA Date May 22, 1929



SECTIONAL ELEVATION "X-X"
SEE SHEET NO 6 FOR SUMMARY OF QUANTITIES FOR ENTIRE BRIDGE
& DETAILS OF ROCK FILLED BULKHEAD.

NOTES
STANDARD SPECIFICATIONS OF THE

IE OF FORM MARKS.
SHALL BE REVEALED TO A 2 FACE
RED MONOLITHICALLY
ONLY CLEANED BEFORE FRESH CON

THE ROCK AND NOT FORMED WEARING SURFACE
SQUARE, PLAIN OR DEFORMED AS
THE STATION NUMBER AND LETTER

COLORADO
STATE HIGHWAY DEPARTMENT

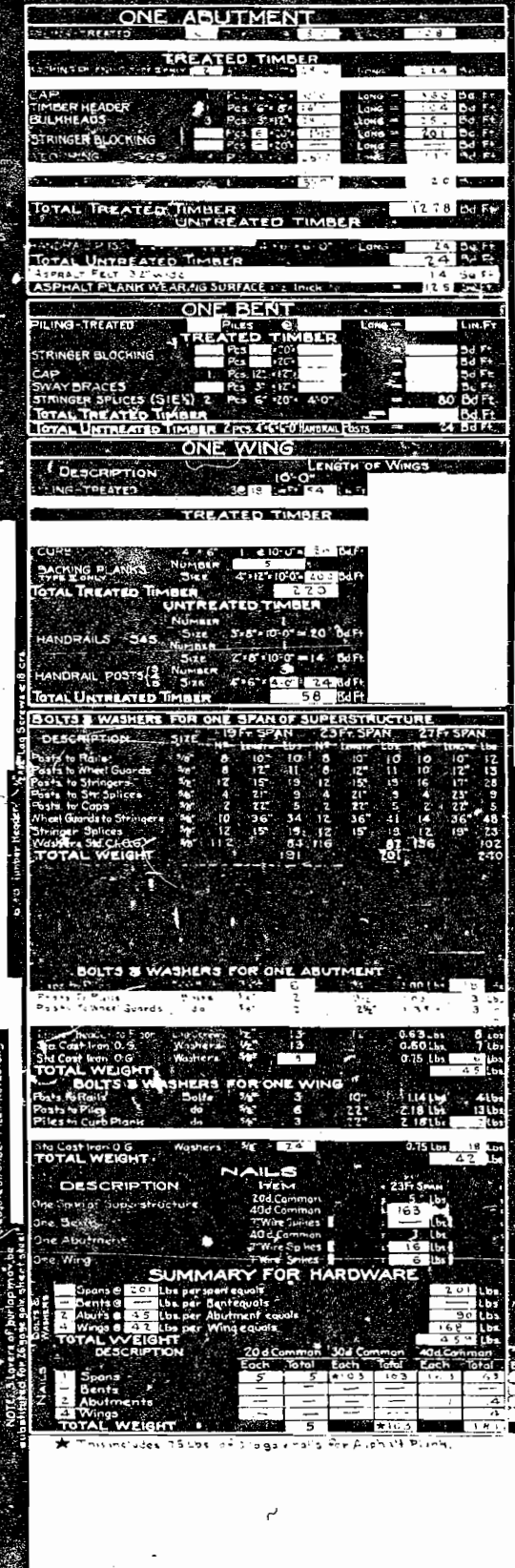
ABUTMENT & PIER DETAILS
FOR 6 SPANS @ 60'-0" BEAM BRIDGE
CONCRETE FLOOR 24'-0" CLEAR ROADWAY
ACROSS WEST SALT CREEK

Sta 1414 + 1392 TO 1417 + 7608
Near MACK Sec. 30 T. 9S R. 103 W

Designed by <i>W.F.W.</i>	Approved by <i>E.H. Bailey</i>
Made by <i>W.F.W.</i>	Bridge Engineer
Checked by <i>W.F.W.</i>	Date: <i>Feb 20 1931</i>

STRUCTURE NO. G-1-G

NOTE - Footers poured to shale.



SUMMARY OF QUANTITIES				
UNTREATED TIMBER				
1	SPANS	• 220	Sd Ft Each	220
2	BENTS	• 2	Sd Ft Each	2
2	ABUTMENTS	• 2	Sd Ft Each	4
4	WINGS	• 36	Sd Ft Each	144
TOTAL				500
TREATED TIMBER				
1	SPANS	• 738	Sd Ft Each	738
2	BENTS	• 2	Sd Ft Each	2
2	ABUTMENTS	• 2	Sd Ft Each	4
4	WINGS	• 210	Sd Ft Each	840
TOTAL				1584
PILING-TREATED				
1	BENTS	• 1	Lt Ft Each	1
2	ABUTMENTS	• 108	Lt Ft Each	108
2	WINGS	• 72	Lt Ft Each	72
TOTAL				181
STRUCTURAL EXCAVATION				
Dw Common				32 Cu
				6 Cu
WEARING SURFACE				
1	SPANS	• 175	Sq Ft Each	175
2	ABUTMENTS	• 116	Sq Ft Each	232
TOTAL				407
ASPHALT FELT 32" wide				
1	ABUTMENTS	• 14	Sq Ft ea	28
1	SPANS	• 670	Sq Ft ea	670
TOTAL				698
DRAIN PIPE & FLANGE				
1PC 3" Sd Pli & 25" long with 1" 3" F. Flange				2
TOTAL				2
PILE SHOES-CAST IRON				
TOTAL				24

[illegible]

STRUCTURE REQUIRED

1 SPAN	25	FT. TYPE OF ABUTMENT	11
2 OF ROADWAY TO GROUND	10	3 FEAT. END	10
4 LENGTH OF WINGS	10	5 FEAT. END	10

LOADING DATA
LIVE LOAD - A.A.S.H.O. JULY 1927 CLASS "B"
DEADLOAD - Assuming 5 lbs per sq ft wearing surface.
 This includes 1 1/2" Asphalt Pave - 1" concrete

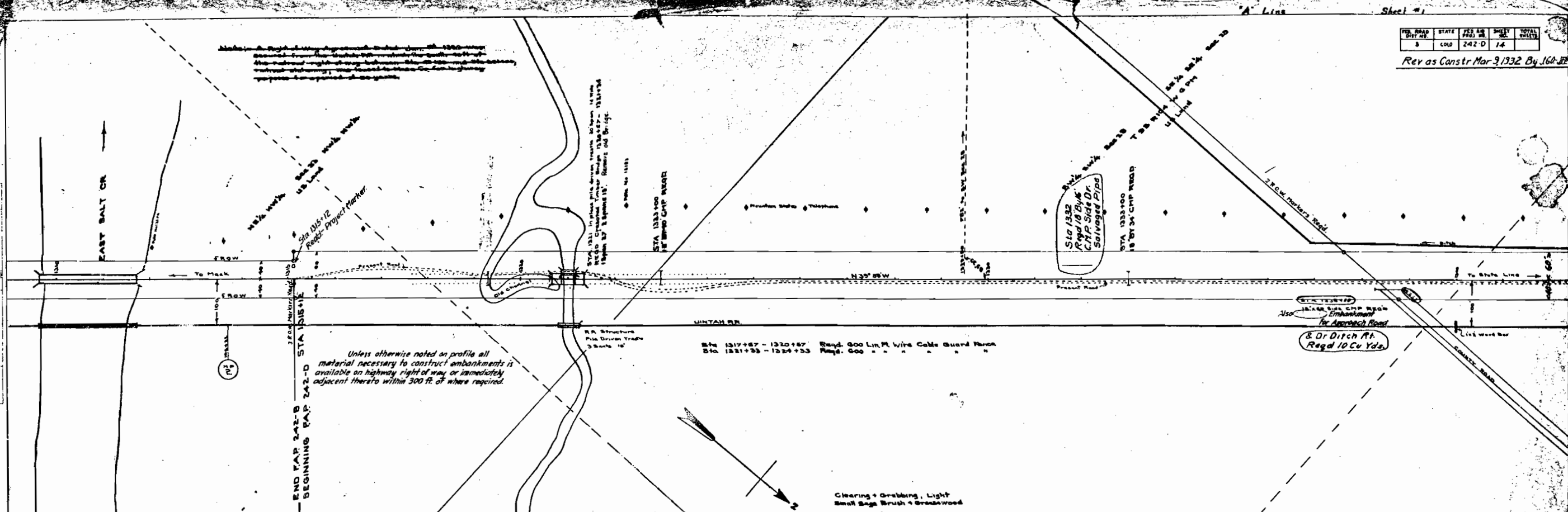
COLORADO
STATE HIGHWAY DEPARTMENT
TIMBER TRESTLE WITH
6" LAMINATED FLOOR

Across DR - WASH
Sta. 4422' - 4452' - 95
Near W Sec 20 T 13 S R 103 W

Designed by <u>LEW</u>	Approved by <u>W. B. Bailey</u>
Made by <u>LEW</u>	Bridge Engineer
Checked by <u>LEW - P. G.</u>	Date: <u>May 22, 1929.</u>

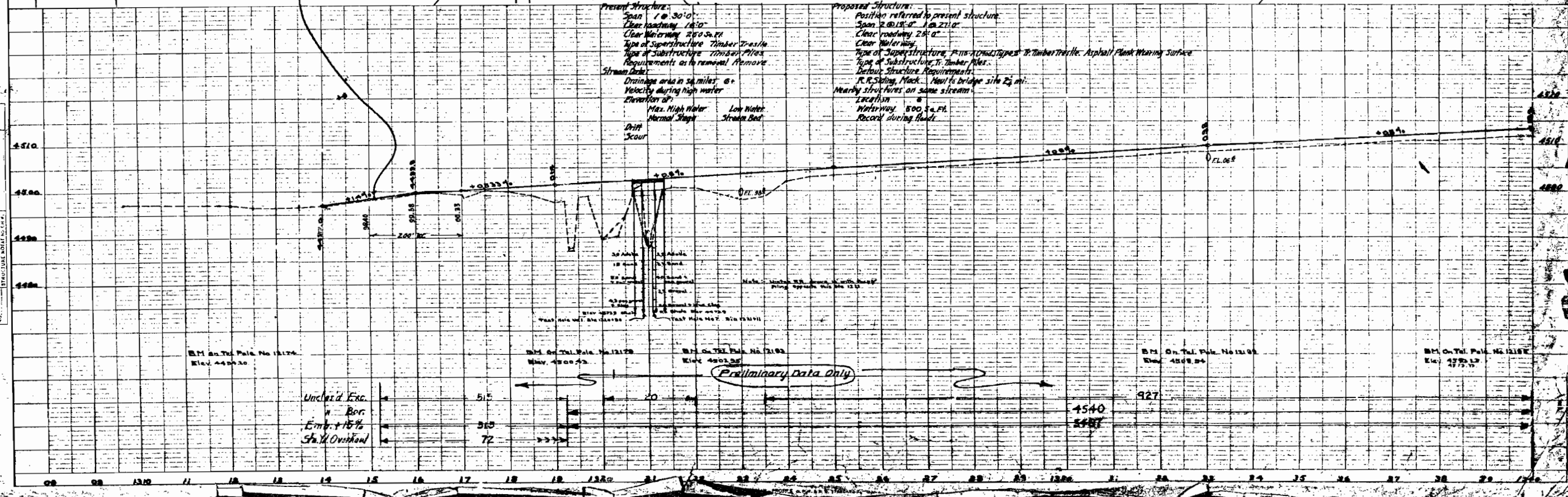


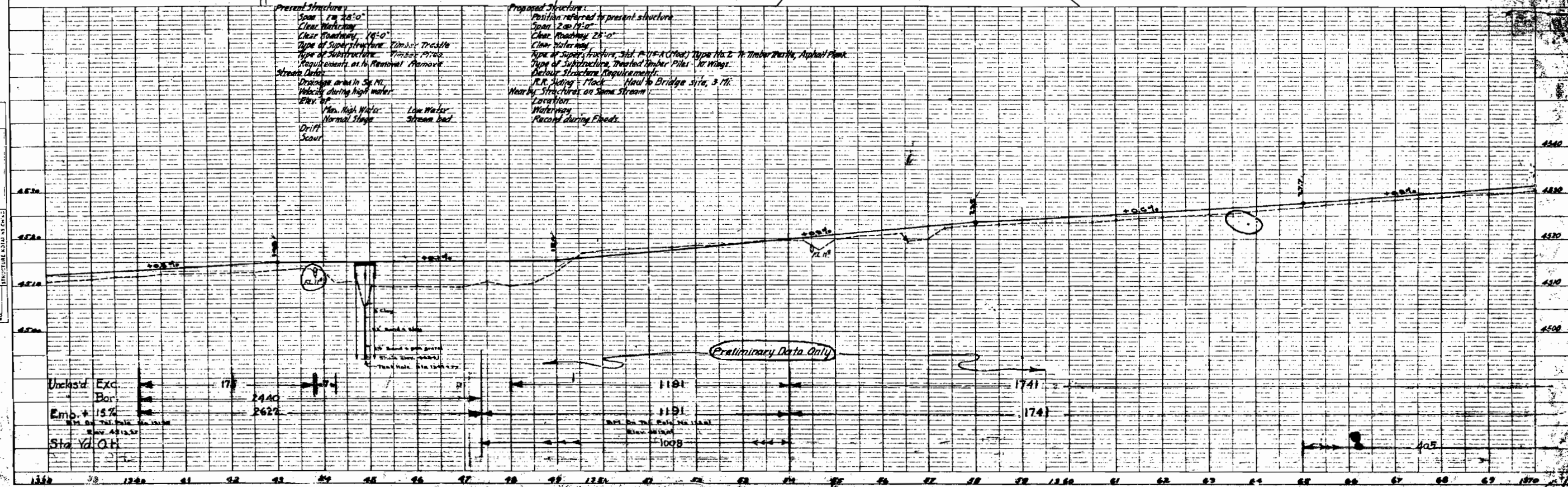
PLAN	DATE	BY	CHECKED
PLAN	11.13.31	A. M. G. H. G.	A. M. G. H. G.
NOTE: 1. 1/2" = 100'			
2. 1/4" = 100'			

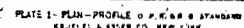


Unless otherwise noted on profile all material necessary to construct embankments is available on highway right of way or immediately adjacent thereto within 300 ft. of where required.

PROFILE	DATE	BY	CHECKED
PROFILE	11.13.31	A. M. G. H. G.	A. M. G. H. G.
NOTE: 1. 1/2" = 100'			
2. 1/4" = 100'			



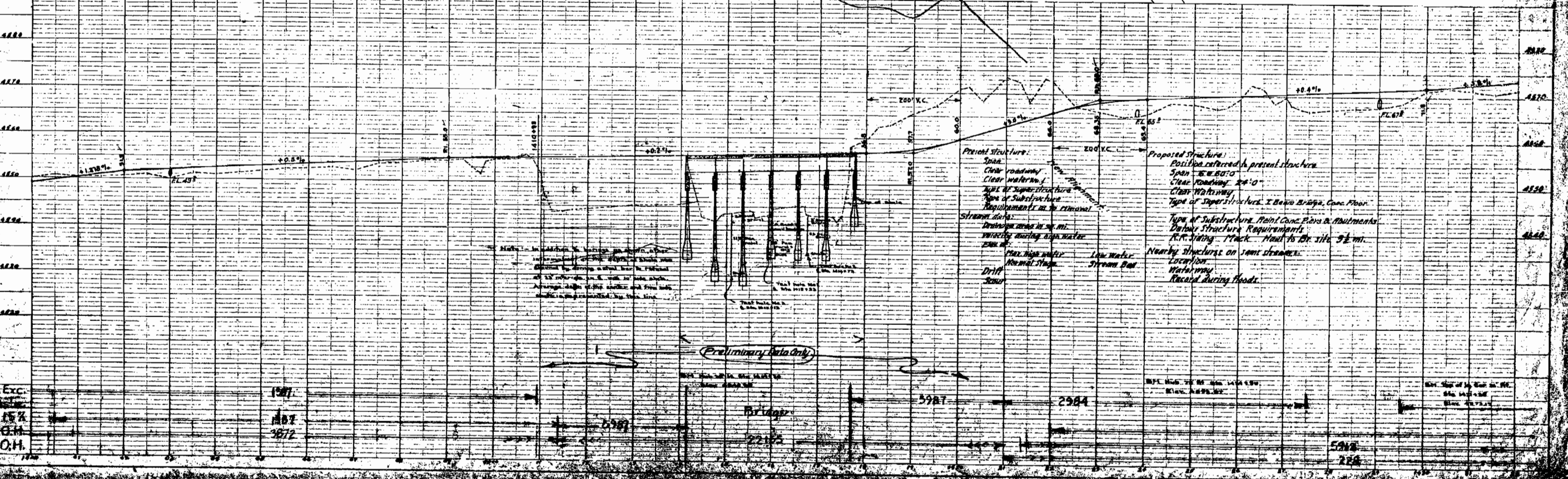
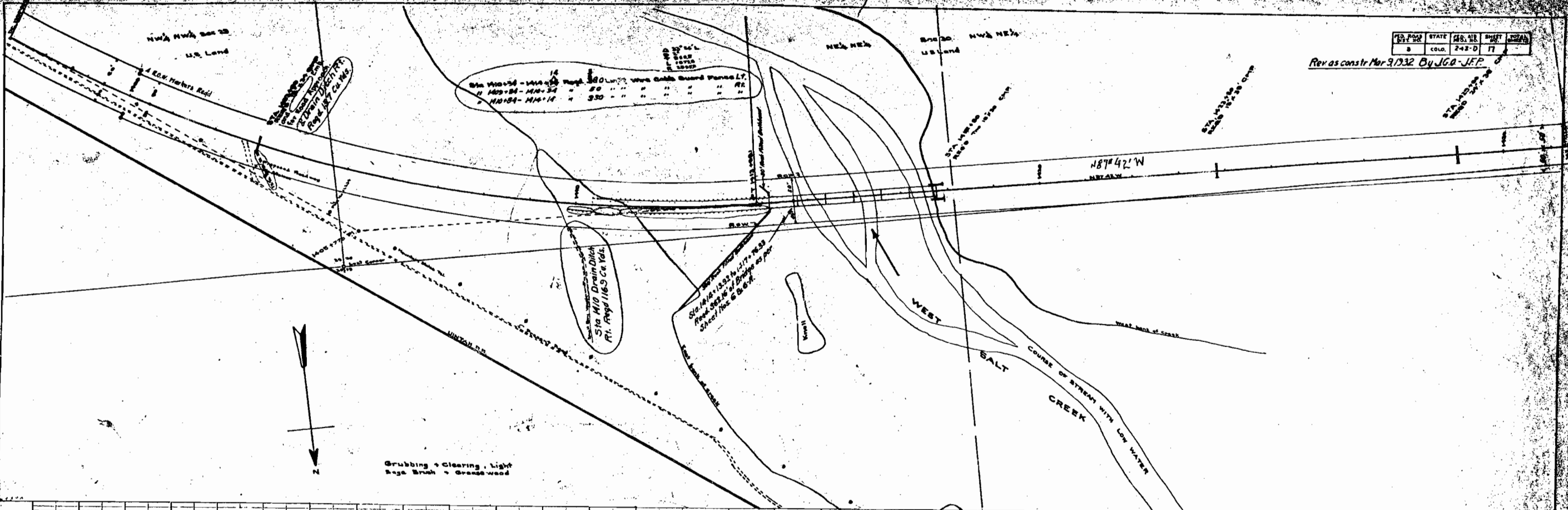




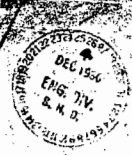


PLAN	DATE	BY
PLOTTED	12/1/32	J.G.P.
NOTED		
NO.		

PROFILE	DATE	BY
PLOTTED	12/1/32	J.G.P.
NOTED		
NO.		



Exc. 15%
Fmb. 15%
Bl. 3%
Id. 1%
O.H.



PLAN	DATE
NOTE BOOK	11/11/36
NO.	

NE 1/4 NW 1/4 Sec 30
T 92 R 103 W GPM
U.S. Land

D 12° 41' L
T 891.2
L 1770.0
R 8730.0

Sta. 1452+00 C&G
2 Drain Open Left
Regd 2.1 Cu Yds.

Sta. 1452+00 C&G
2 Drain Open Left
Regd 33 Cu Yds.

Sta. 1452+00 C&G
2 Drain Open Left
Regd 33 Cu Yds.

Sta. 1452+20 - 1452+70 Regd. 100 Lin. Ft. Wire Cable Guard Fence
Sta. 1452+96 - 1453+46 Regd. 100 Lin. Ft. Wire Cable Guard Fence

Sta. 1492 to 1499, Regd.
1479.6 Cu Yds. Exc. for Ditch

NE 1/4 NW 1/4 Sec 30
T 92 R 103 W GPM

NE 1/4 NW 1/4 Sec 28
T 92 R 104 W GPM

PROJ. NO.	STATE	FILE NO.	SHEET	TOTAL
3	COLO.	2452	18	

Revised Constr. Mar. 9, 1932 By J.G.O.-J.F.P.

Clearing + Grubbing, Light
Small Grasses Wood

PROFILE	DATE
NOTE BOOK	11/11/36
NO.	

B.M. Top of Mon. Pipe 24' 30" N. of Sta. 1452+00
Elev. 4575.5

B.M. 24' 30" N. of Sta. 1452+00
Elev. 4575.5

Present Structure
Span
Clear Roadway
Clear Waterway
Type of Superstructure
Type of Substructure
Requirements as to removal
Stream Data:
Drainage area in sq. mi.
Velocity during high water
Elevation of
Max. high water
Normal Slope
Drift
Scour

Proposed Structure
Position referred
to present structure
Span 1 @ 23'
Clear Roadway 25'
Clear Waterway
Type of Superstructure, Std. R-15-A (Mod.) Type II, 11' Timber Truss, Asphalt Plank
Type of Substructure, 11' Timber Piers, 10' Wings
Detail Structure Requirements
R.R. Siding, 11' 6" Haul in Bridge Side 4 mi.
Nearby Structures on same stream:
Location
Waterway
Record During Floods

PROFILE OF PROPOSED DITCH

(Preliminary Data Only)

Unclass. Exc.
Unclass. Bar
Emb. + 15%
Sta. Yd. O.H.
Yd. Mt. O.H.

763
3/6

14

422

5948

6511

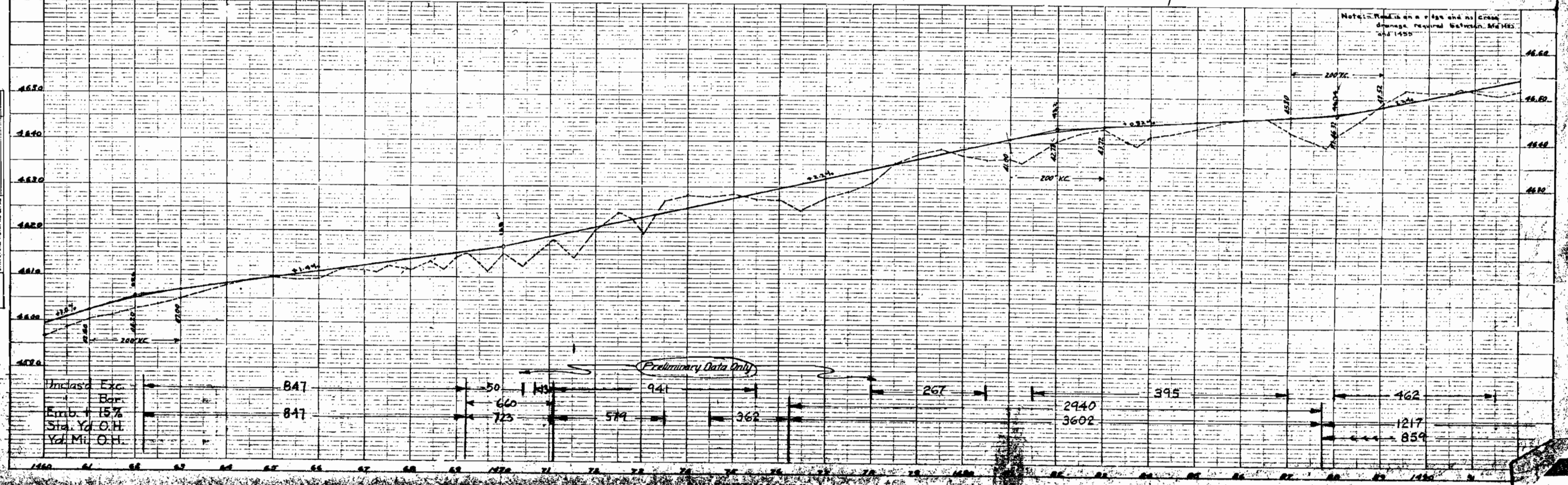
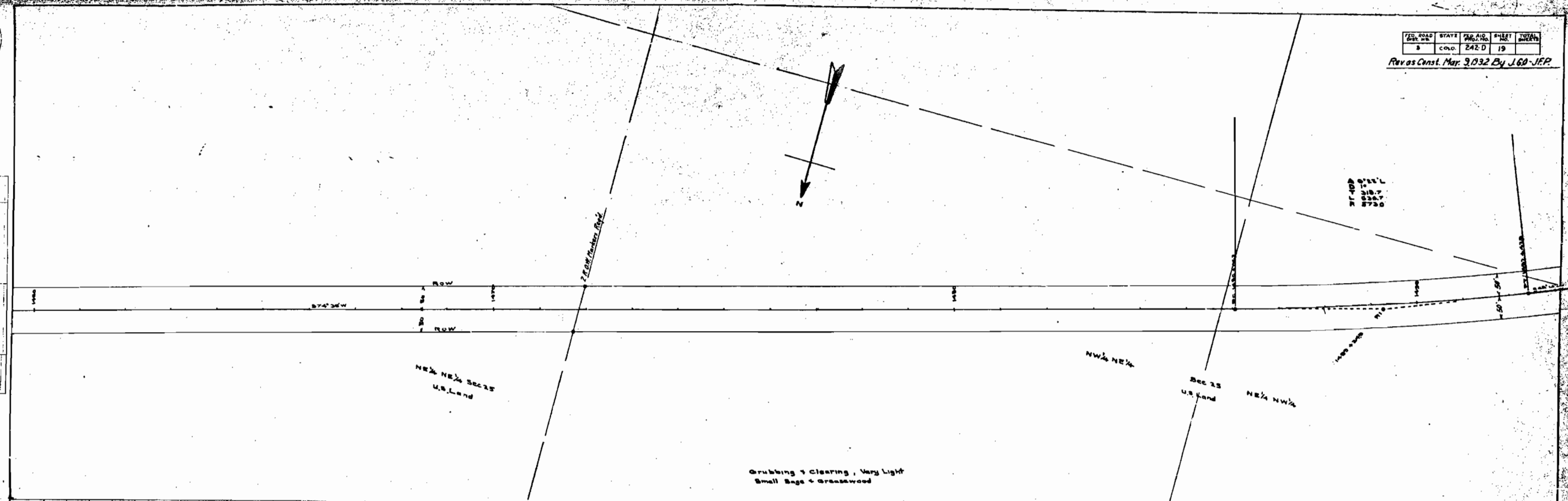
Ditch Section



PLAN	DATE	BY	CHKD
	10/1/50	W. J. L.	W. J. L.
PROFILE	DATE	BY	CHKD
	10/1/50	W. J. L.	W. J. L.
NOTE BOOK	DATE	BY	CHKD
	10/1/50	W. J. L.	W. J. L.

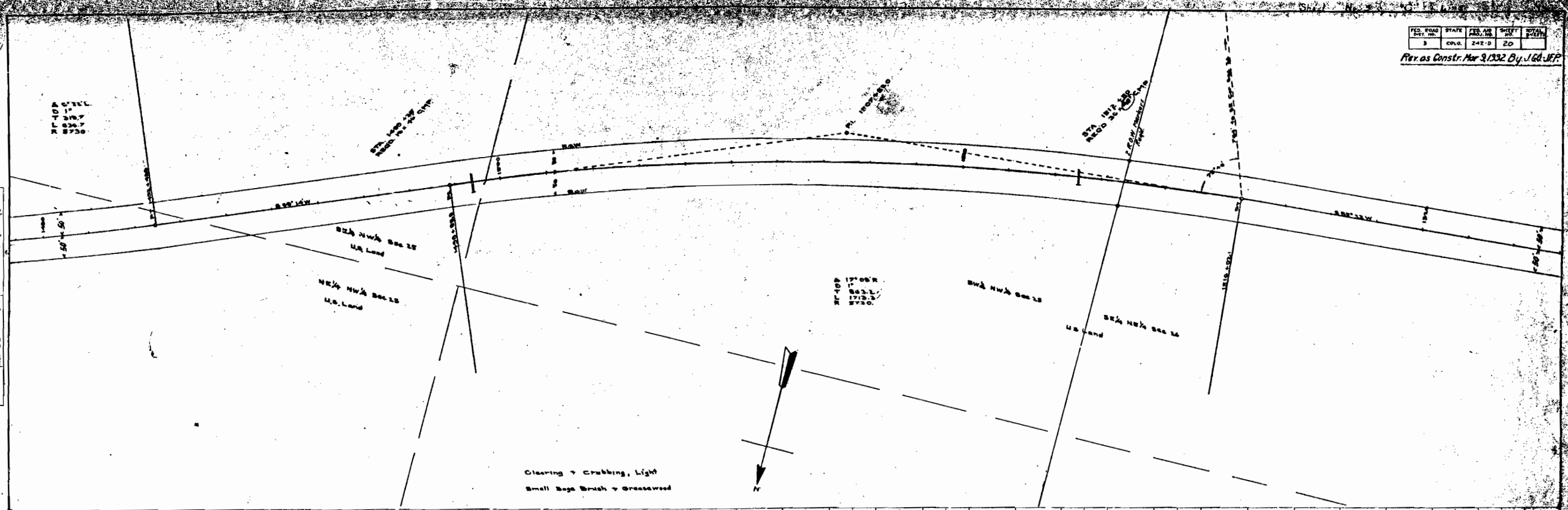
FED. ROAD DIST. NO.	STATE	SEC. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	242 D	19	20

Revised Const. Map 9, 1932 By J. 60 JEP

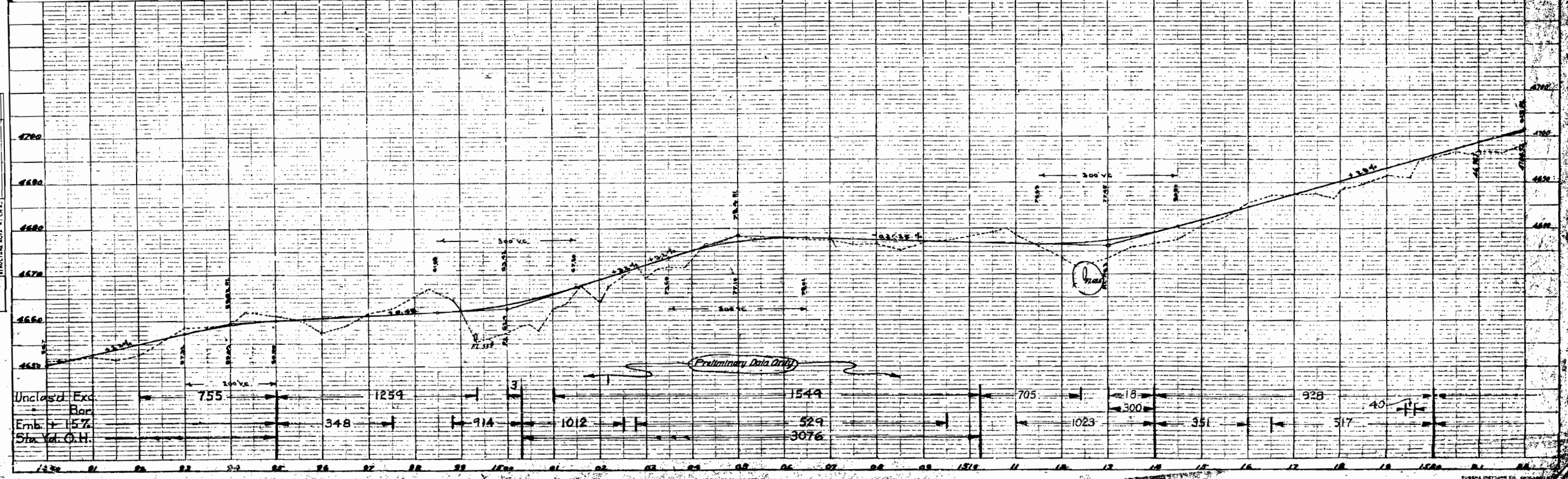


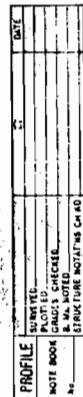


PLAN	DATE	BY	CHKD.
PLANNED	11/1/31	J. M. D.	
PLOTTED	11/1/31	J. M. D.	
NOTE BOOK			
NO.			

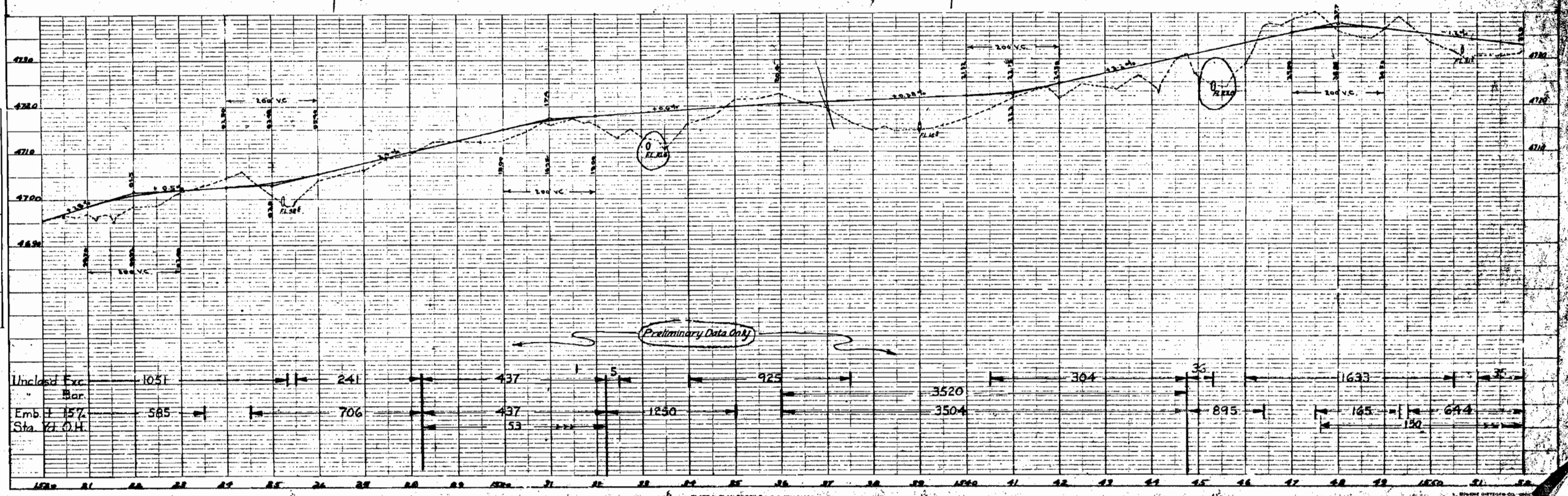


PROFILE	DATE	BY	CHKD.
PLANNED	11/1/31	J. M. D.	
PLOTTED	11/1/31	J. M. D.	
NOTE BOOK			
NO.			





Rev. as Constr. Mar. 9, 1932 By JGO-JFP

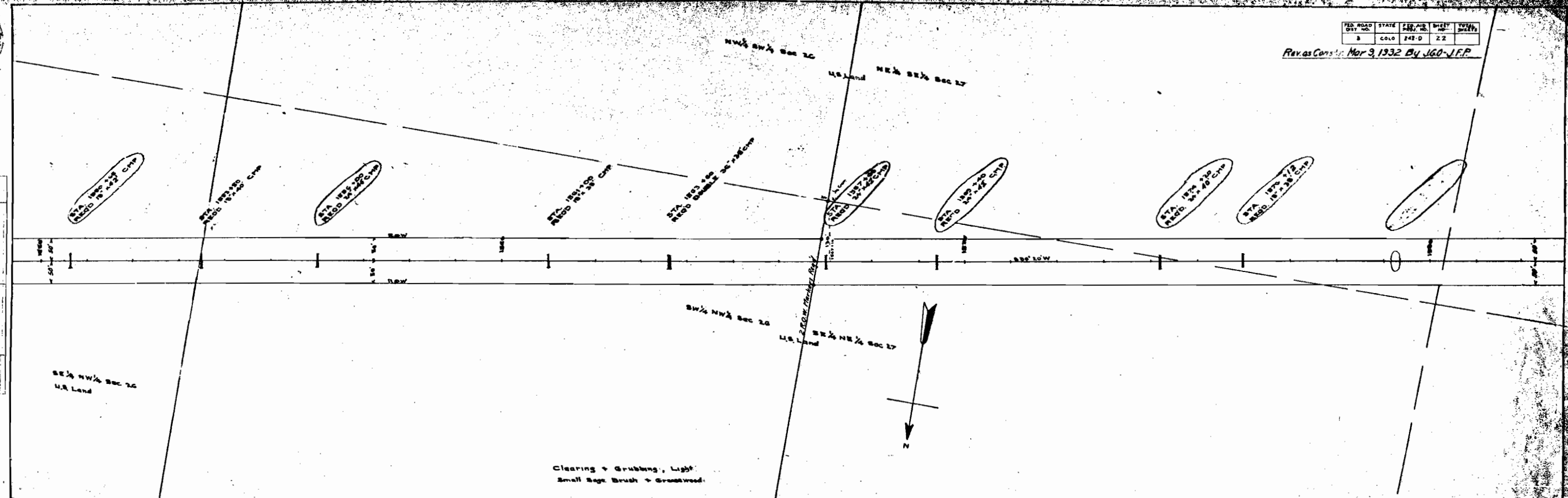




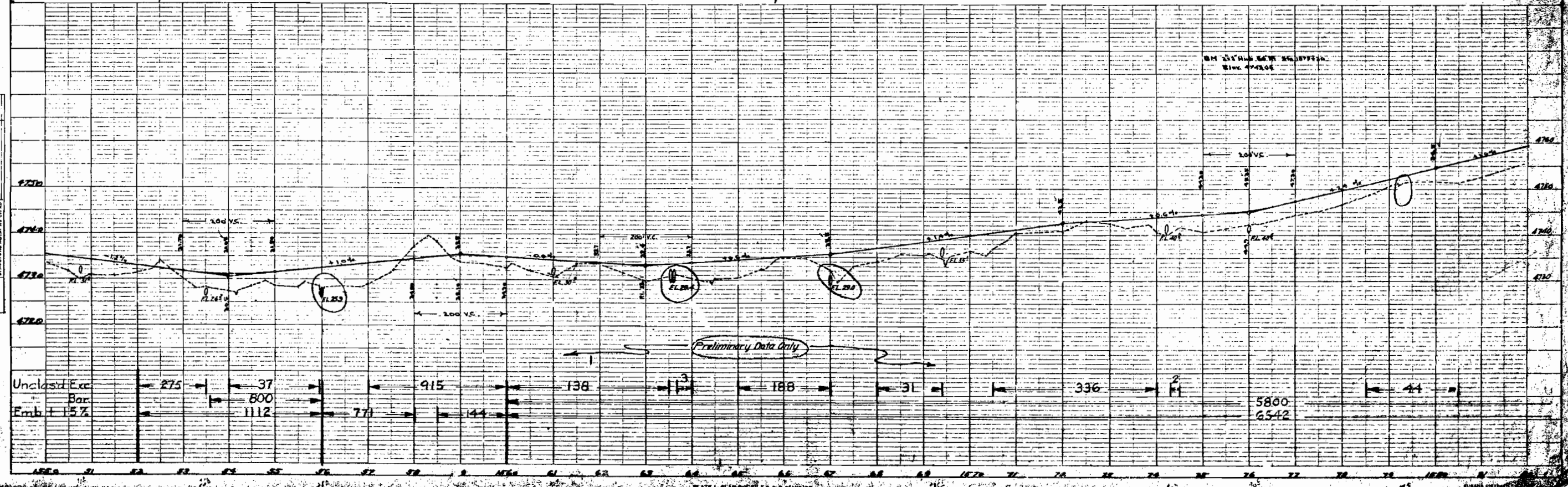
FED. ROAD DIST. NO.	STATE	SER. NO.	SHEET NO.	TOTAL SHEETS
8	COLO.	248-D	22	248

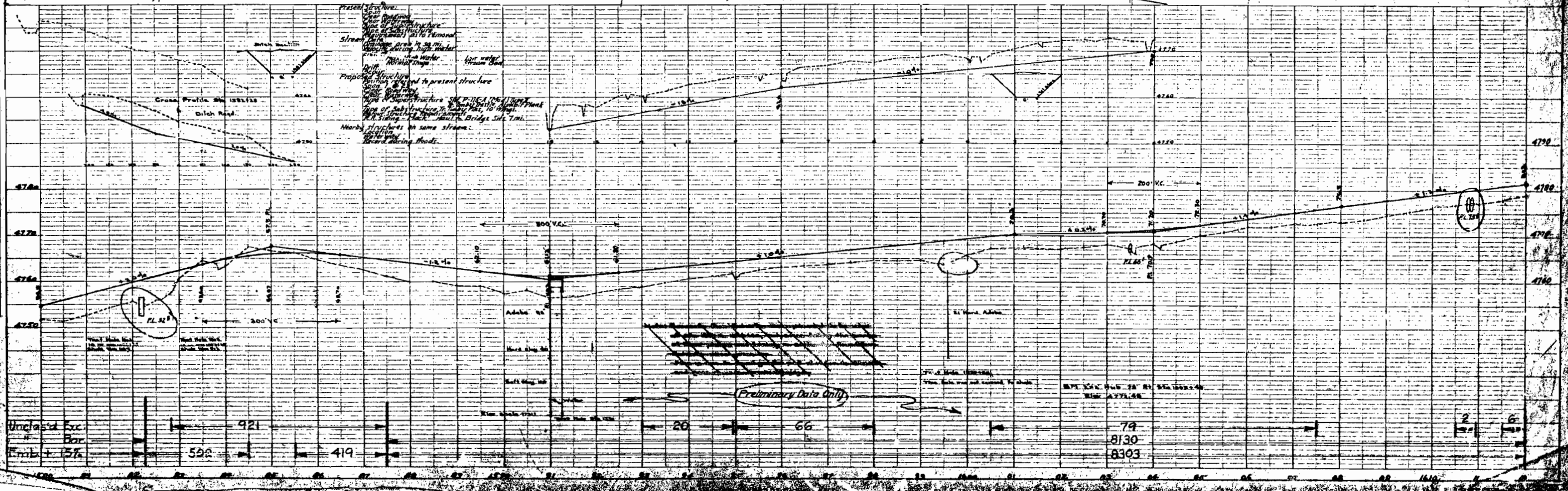
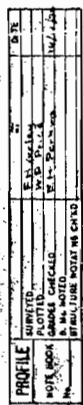
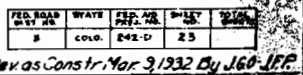
Revised Const. Mar 9, 1932 By J.G.O.-J.F.P.

PLAN	DATE	BY	CHKD.
PLAN	12-13-32	J.F.P.	J.F.P.
NOTE BOOK			
NO.			



PROFILE	DATE	BY	CHKD.
PROFILE	12-13-32	J.F.P.	J.F.P.
NOTE BOOK			
NO.			

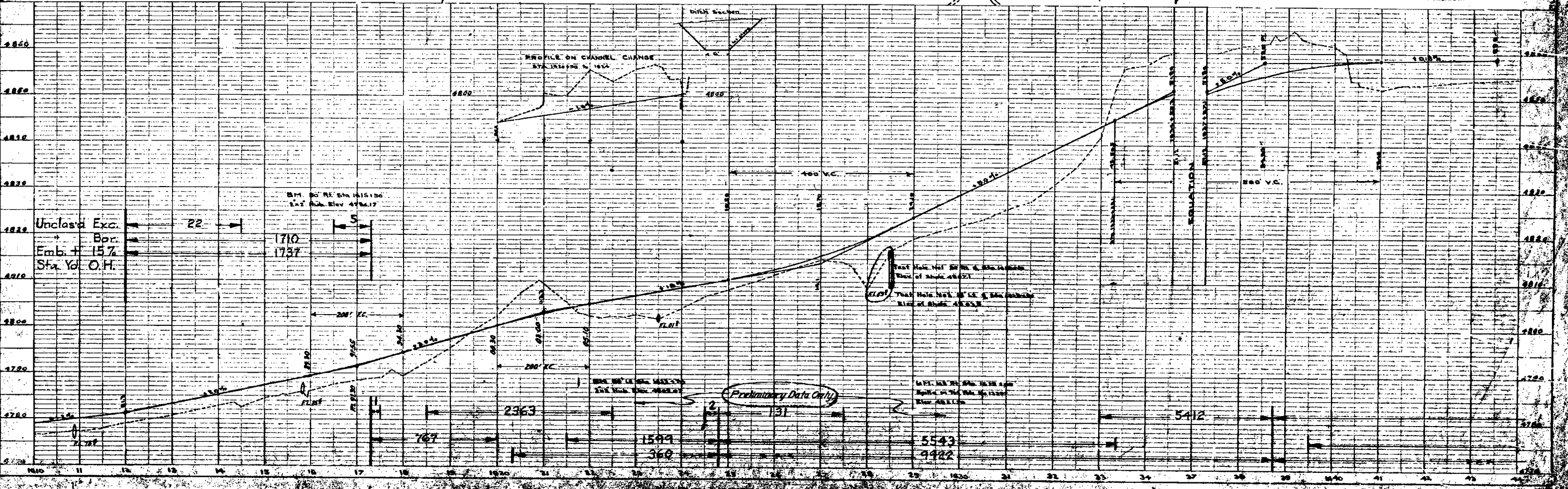
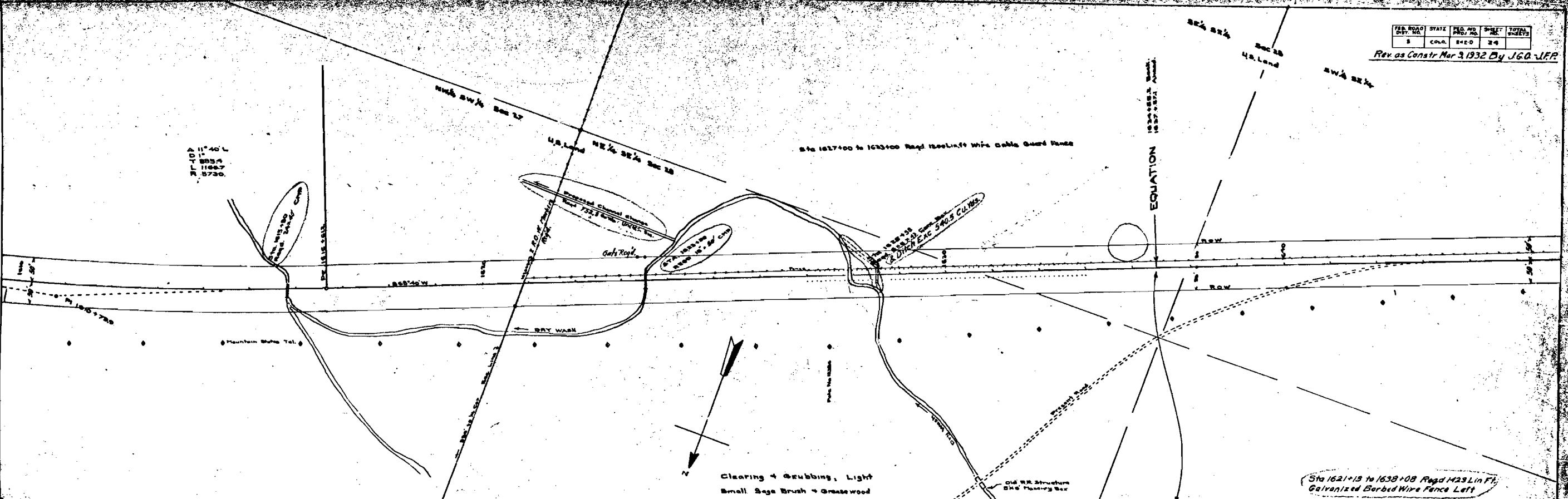






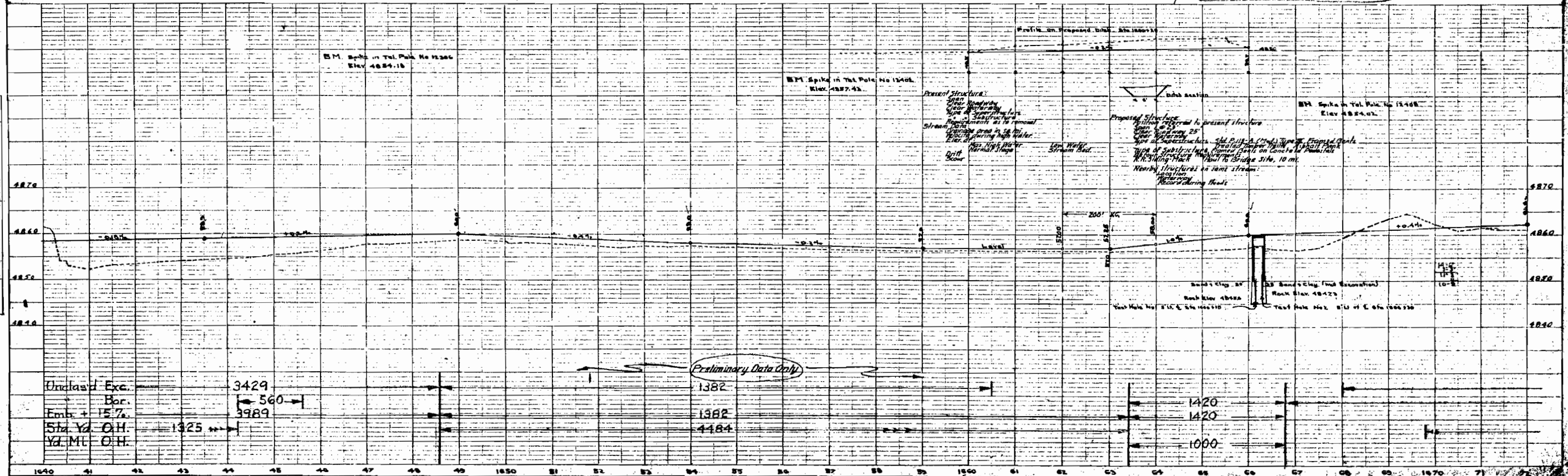
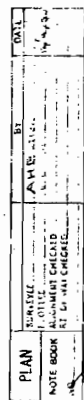
PLAN	DATE
UNITED STATES NOTED & CHECKED BY: J. H. B. J. H. B.	10/1/32
NOTE BOOK NO. 1000	

PROFILE	DATE
UNITED STATES NOTED & CHECKED BY: J. H. B. J. H. B.	10/1/32
NOTE BOOK NO. 1000	



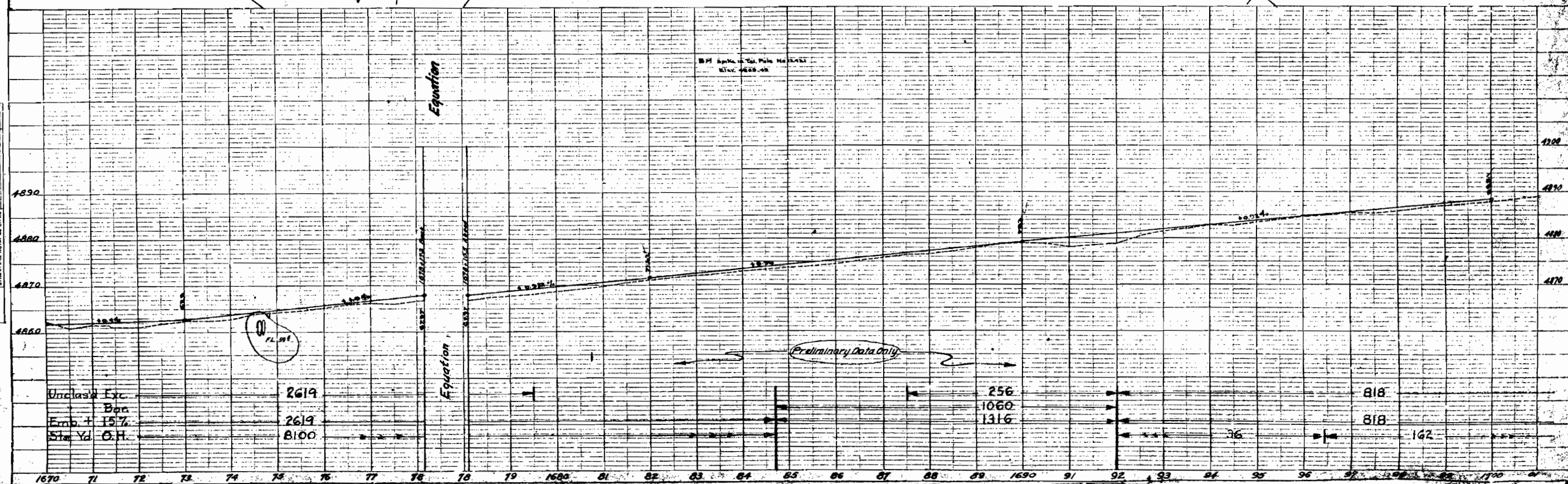
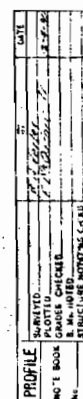
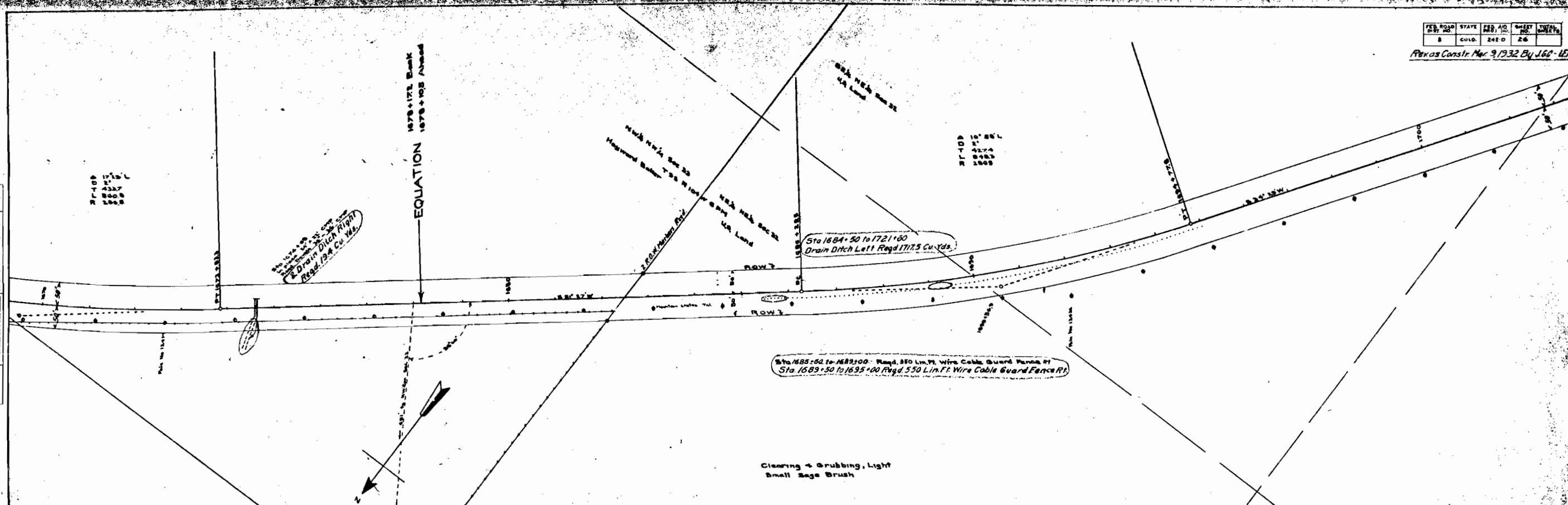
FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
5	COLO.	8420	24	

Rev. as Constr. Mar. 3, 1932 By J.G.D. J.F.P.





Rekos Constr. Mar. 9, 1932 By J60-4E

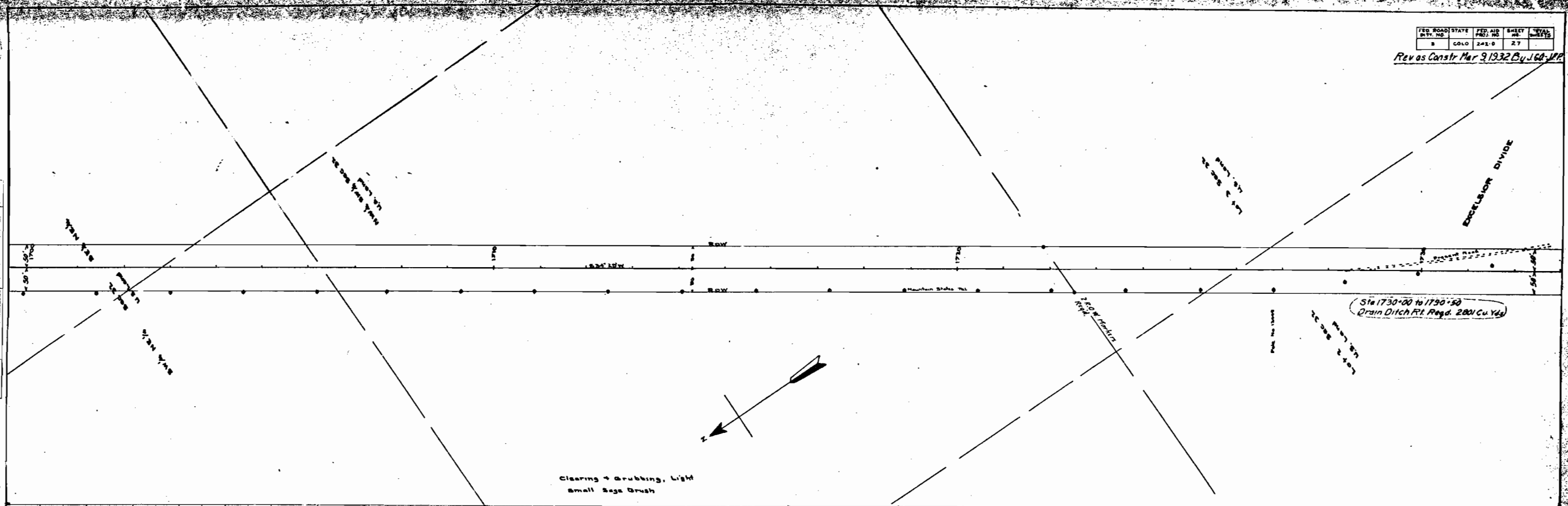




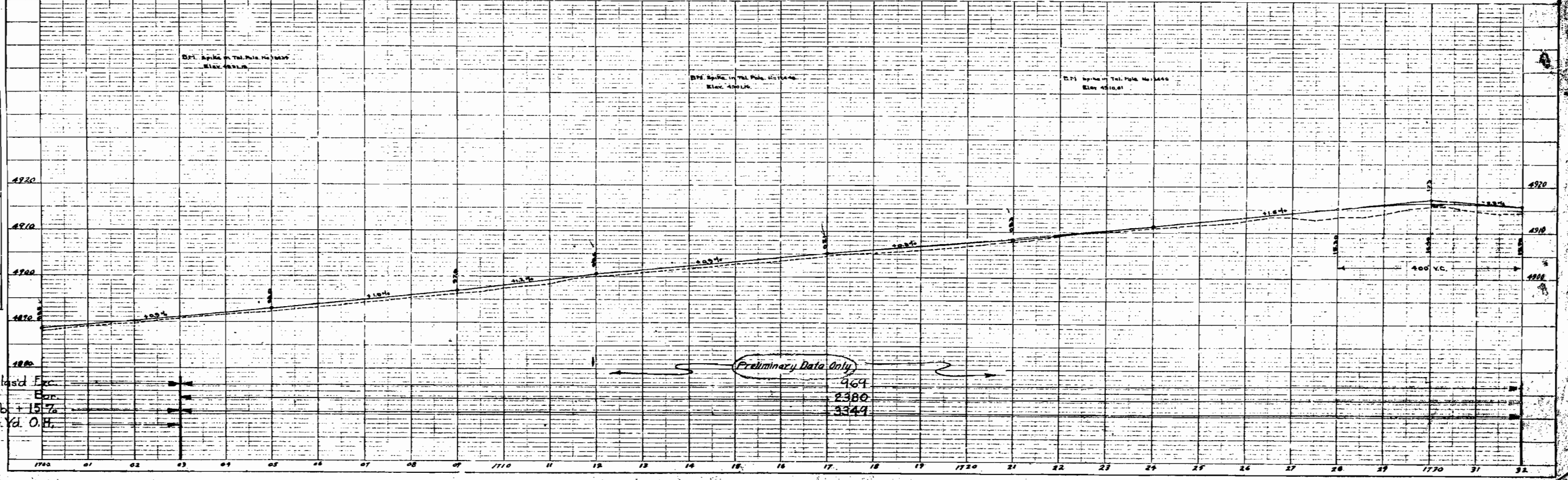
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	COLORADO	241-0	27	

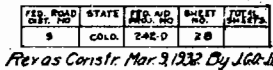
Revised Constr Mar 9 1932 By J. G. J. P.

PLAN	DATE
LEVEL	
NOTE BOOK ALPHABETICALLY	
NO.	

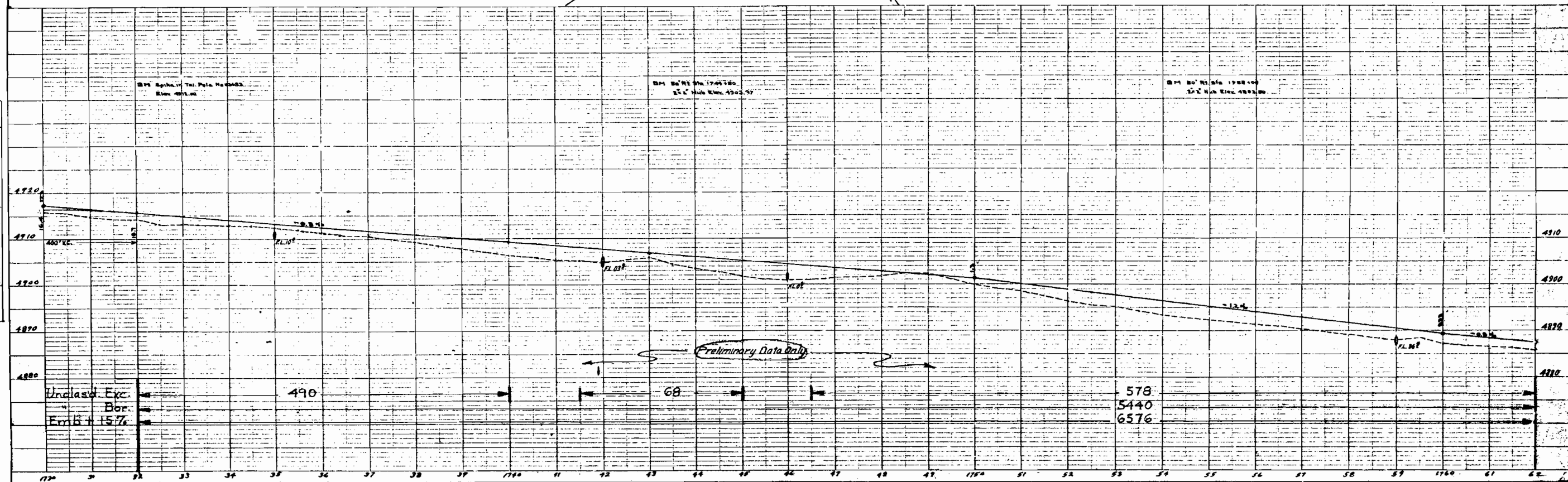
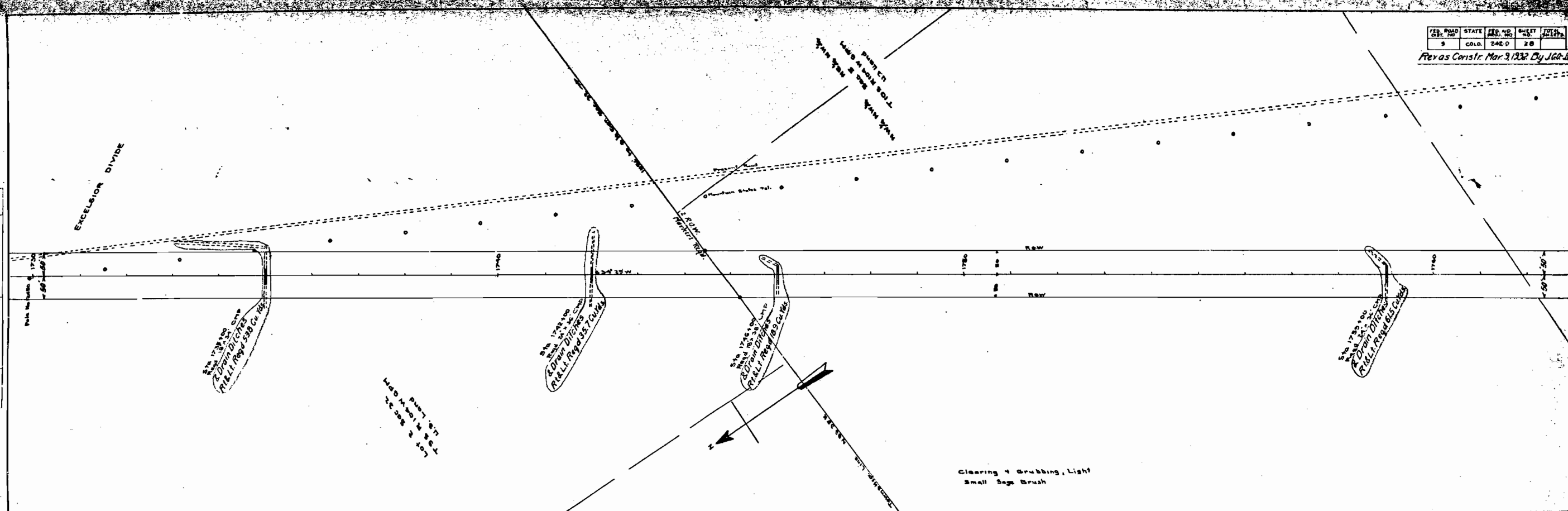
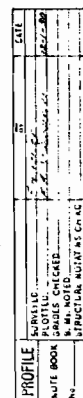
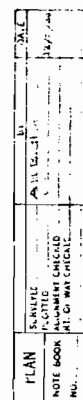


PROFILE	DATE
NOTE BOOK ALPHABETICALLY	
NO.	





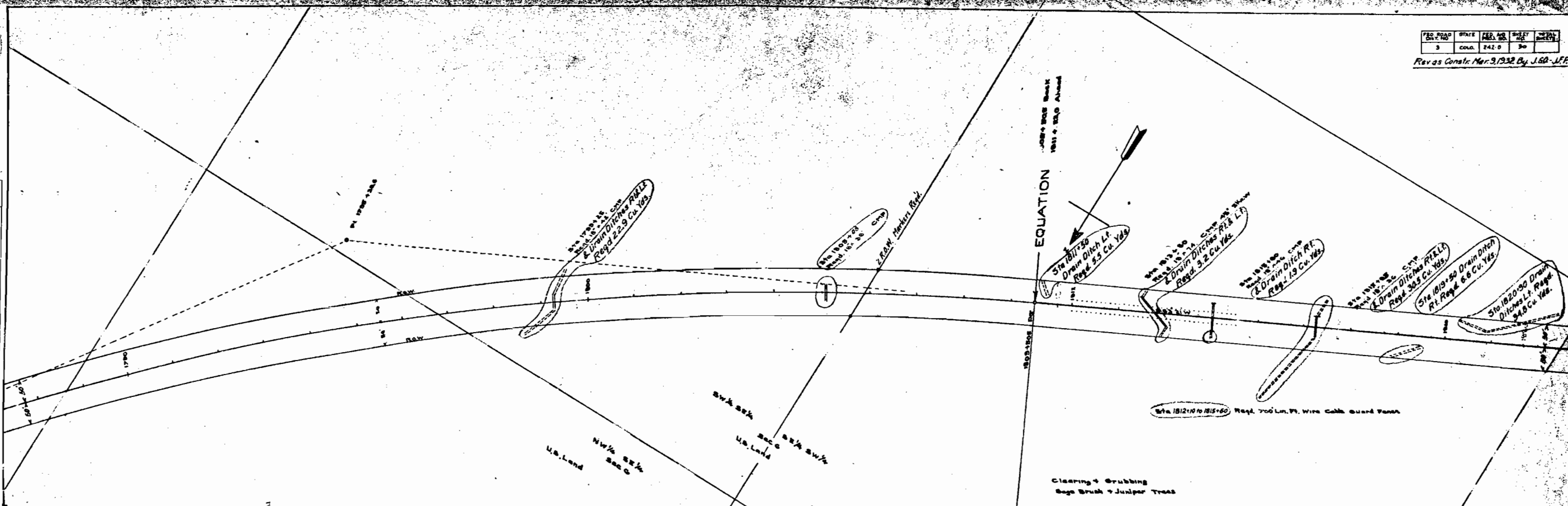
Revas Constr. Mar. 2, 1932. By J.G.A.J.



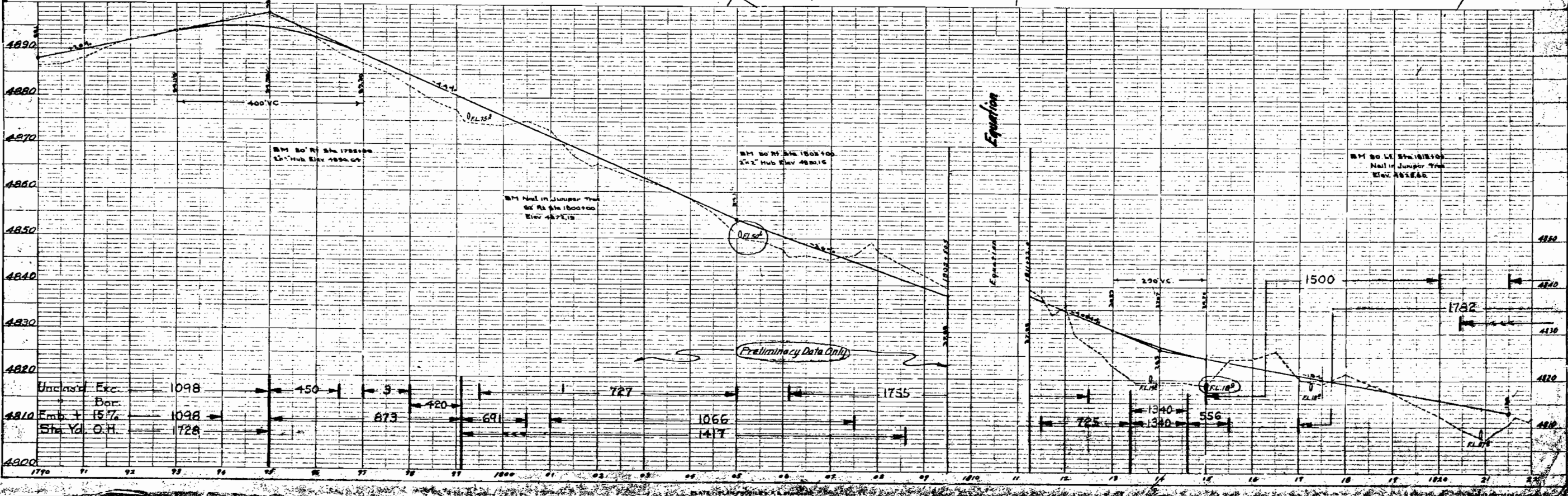
DEC 1930
E.H. F. W.
S. H. G.

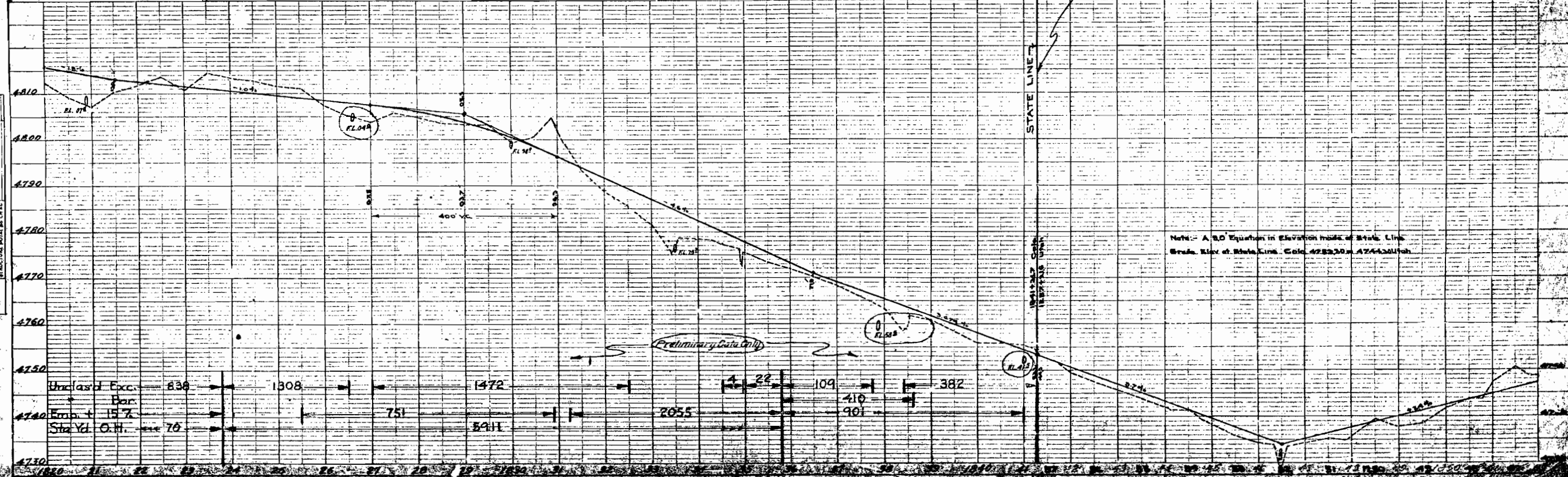
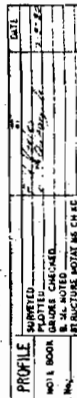
REV. ROAD DIST. STATE REP. NO. SHEET NO. TOTAL SHEETS
3 CONG. 242.0 30
Rev as Const. Mar. 9, 1932 By J.G.D.-J.F.P.

PLAN
DATE
BY
SHEET
SHEET NO.
NOTE BOOK
NO.



PROFILE
DATE
BY
SHEET
SHEET NO.
NOTE BOOK
NO.







DATA REQUIRED TO ACCOMPANY SITUATION PLAN.

I. GENERAL REMARKS.

Fill out all blanks with care, giving information on all points listed, and supplementary remarks on features not listed. High water and foundation conditions are especially important and should be thoroughly investigated.

II. PROFILE.

Plot profile of centerline of roadway. Use natural scale, preferably 1" = 10'.

At proper locations show section of test pits, noting material encountered, if available at time of survey.

Show present, and if possible, proposed finished grade noting elevations and gradients.

III. MAP.

Show present and proposed alignment of bridge and all approaches, as far as affected. Extend cross sections at least 50-ft. each side of C.L., giving location and elevation of points so that at least 2-foot contours may be accurately plotted. Show edge of water, islands, shoals, other obstructions, and direction of current at high water and at low water. Plot location of test pits, position and pointing of camera for each photo, all buildings, fences, and other features affected. Establish bench marks and give location of same. Reference C.L. and show North point. Give a C.L.-profile of stream-bed for 500 feet up-stream and 500 feet down-stream from center line of survey. Plot proposed structure in soft pencil only. Do not ink.

IV. REPORT OF EXAMINATION OF BRIDGE-SITE.

Div. 1 County 11250 State Colorado Route No. 4 Sec. 1 Sta. 1418

Date of survey Nov 10 1938 To be built by Federal Aid

1. Bridge Site

Location On West Salt Creek 4 miles west of Mack
Sec. 20 Twp. 2 S Range 10 W Local name West Salt Creek Bridge
Over West Salt Creek River Creek
Distance from nearest shipping point 4 miles

2. Source of materials

Sand Commercial at Length of haul to site Grand Junction 20 miles
Gravel at south of Loma " " " " About 2 miles " "
Stones at 1 1/2 mi. S 70 " " " " " " "
Falsework Timber " " " " Grand Junction 20 " "
Piling " " " " West Coast " "

3. Cost Data

Cost of following materials at site.
Portland Cement 2.25 Per Bbl.
Sand, coarse and clean 5.00 " Cu. Yd.
Gravel 5.00 " " " "
Stones 2.25 " " " "
Falsework Timber 4.25 " Ft. B. M.
Piling 30.00 " Lin. Ft.

Cost per ton-mile for hauling 13.50

4. Waterway

Drainage area in Sq. Miles (approximate) 40
Character of watershed Shales part adobe hills
Elevation of highest water 4242.0 Date Aug 1937
Source of information on water elevation Maintenance Patrolman
Elevation of ordinary high water 4243.0
Elevation of low water 4241.0
Elevation of permanent ground-water 4230 to 4242
Is stream ever dry? No During what months? "
Will all flood water pass through recommended structure? Yes
Can channel be cleaned to afford more waterway? No
Is stream cutting or silting up? cutting
Is stream stable in its banks? Stable on west bank, unstable on east Depth of scour? 2 to 10 ft
Does stream carry light, medium, or heavy silt? Heavy silt & gravel
What clearance above high water should be allowed? 10 ft
Is channel change necessary? No but east bank above proposed structure requires protection
If channel change is necessary, illustrate location on sketch map.

5. Foundation Data

Character of material Adobe, fine sand, sand, gravel & small rock (washed material on top of shale)
Distance from stream-bed to solid foundation Average 2.5 ft. to shale
Recommended depth of footings Two ft. into shale
Should piles be used? No What length? "

6. Old Bridge

If there is no bridge at the present location include here data on nearest bridge over same stream. If possible show location of such bridge or bridges on the map.
Type Timber Number and length of spans 2 spans 20-22 ft
Area of waterway provided under old structure 0.00 Sq. Ft.
Has this area proved sufficient at flood times? No Reason rapids natural times
Is it too large? No

Give foundation data on bridges in vicinity. When possible, get pile driving data, logs of borings, etc., for adjoining structures, and where considered advantageous procure plans.

Elevation of under-clearance 10 ft
Disposition of existing structure Turn over to Maintenance Dept.
Remarks A tributary (Badger Cr.) flows into West Salt Cr. below present bridge. A 60' span bridge over Badger Cr. has a waterway of 600 sq. ft. and is safe. has never been taxed for capacity. This flows into West Salt Cr. from the south above proposed structure.

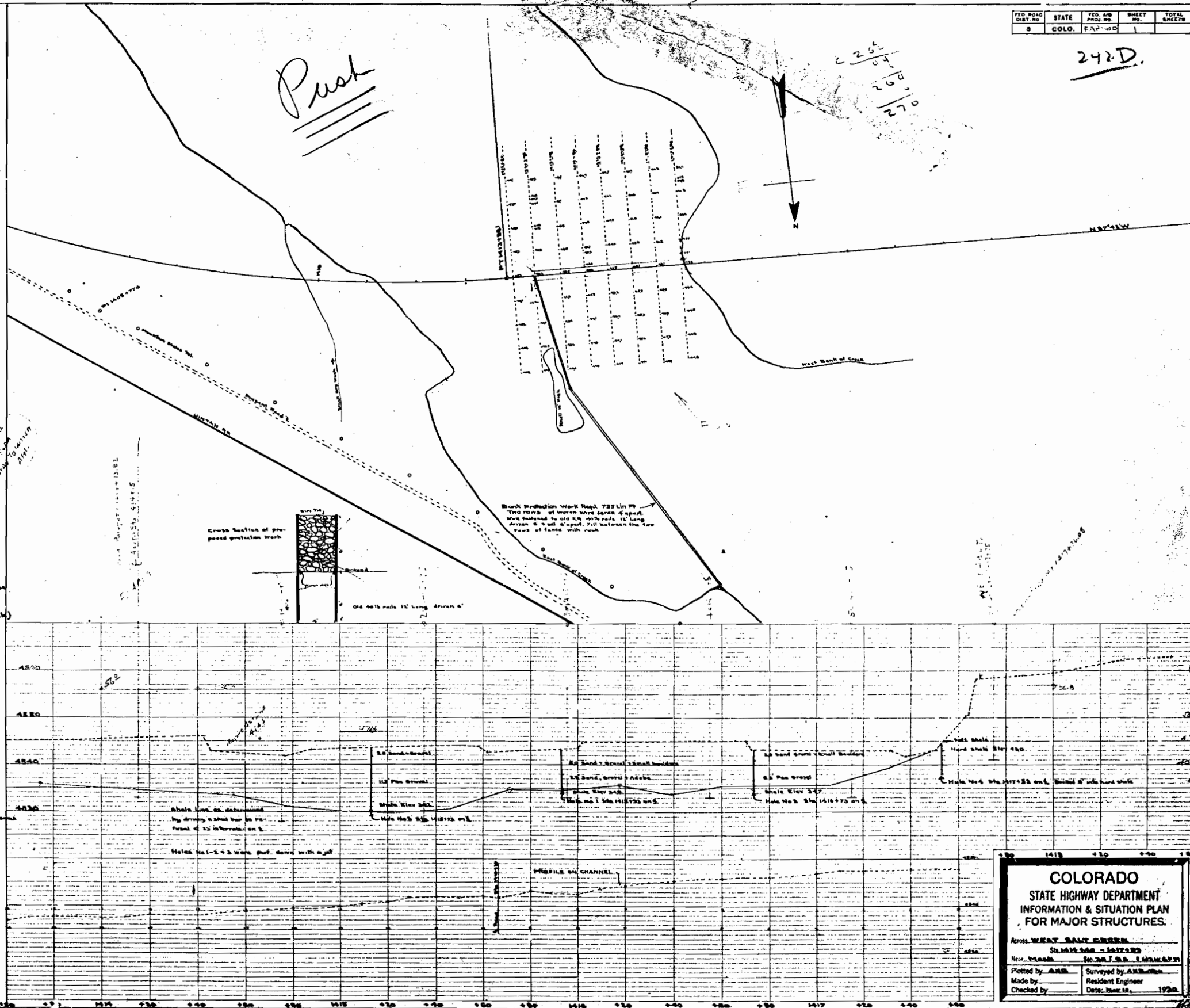
7. Recommendations for New Structure

Type Timber Number and length of spans 11 @ 25 Timber
What is the least clear span permissible? 200
Width of roadway 20 Are sidewalks desired? No
Angle of Skew recommended 90 deg. to road
Will approaches be desired, or will same be filled? Filled - yes on East side. Rip Rapped
Approximate cost per Cu. Yd. of approach-filling at bridge site? 20¢
Is it necessary to maintain traffic alongside old structure? No

If so, how shall it be done?

Submitted by CHC
Engineer.

NOTE.—When bridge is recommended to be left in place, complete structural details shall be procured from the bridge itself or from existing plans of the structure. When possible these plans shall be forwarded with the plans of the project.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	FAP-100	1	

242.D.

COLORADO STATE HIGHWAY DEPARTMENT INFORMATION & SITUATION PLAN FOR MAJOR STRUCTURES.	
Across <u>WEST SALT CREEK</u> Sta. <u>1418.000 - 1417.250</u>	
New <u>bridge</u> <u>on</u> <u>the</u> <u>road</u> <u>to</u> <u>the</u> <u>west</u>	
Plotted by <u>CHC</u>	Surveyed by <u>CHC</u>
Made by <u>CHC</u>	Resident Engineer
Checked by <u>CHC</u>	Date <u>Nov 10, 1938</u>

STRUCTURE NO. G-1-A