

Loma - W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	242C	1	
Rev. 8-14-28 C.E.L. Rev. 9-1-28 A.L.P.				

INDEX OF SHEETS

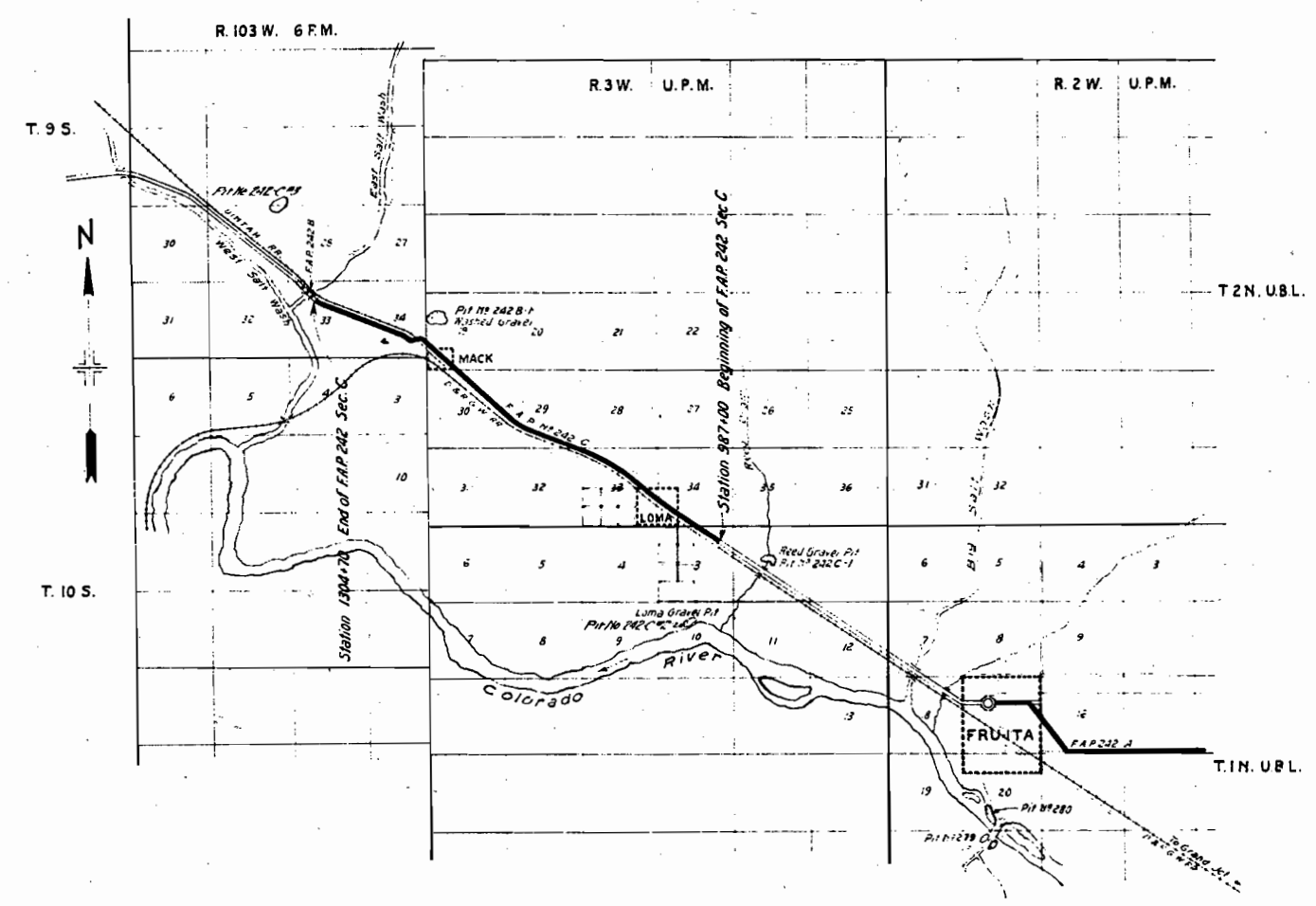
1. Sketch Map and Title.
2. Typical Cross Section of Improvement and Summary of Quantities.
3. Timber Trestle Bridge with Concrete Floor - Sta. 1049+00 to 1049+24
4. do do do 1136+48 - 1136+73
5. do do do 1233+30 - 1234+00
6. do do do 1248+00 - 1248+77
7. Standard Concrete Headwalls M-102C.
8. Standard Guard Fence M-20 D.
9. Standard Barbed Wire Fence and Concrete Project Marker Post.
- 10-20 Plan and Profile Sheets
- 21-54 Cross Section Sheets

COLORADO
STATE HIGHWAY DEPARTMENT
PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. 242 C
STATE HIGHWAY NO. 4
MESA COUNTY

CONVENTIONAL SIGNS

- Center Line of Improvement.
- Right of Way Line.
- Railroad Track.
- Fence.
- Section Line.
- 1/4 Section Line.

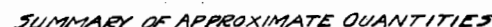
SCALES
ON PLAN, 1 IN. = 100 FT.
ON PROFILE 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT 31753.2 FEET = 6.014 MILES.
NET LENGTH OF PROJECT 31736.2 FEET = 6.011 MILES.



RECOMMENDED FOR APPROVAL
[Signature]
ASSISTANT ENGINEER
APPROVED
[Signature]
DISTRICT ENGINEER
RECOMMENDED FOR APPROVAL
DIST. ENG. BUREAU PUBLIC ROADS
RECOMMENDED FOR APPROVAL
CHIEF ENG. BUREAU PUBLIC ROADS
APPROVED
DIRECTOR BUREAU PUBLIC ROADS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	MAINT. NO.
3	COLD	242-6	8

Revised Aug. 31, 1928. P.L.
 Rev. 9-21-28 - R.E.L.
 Rev. 11-12-28 - R.E.L.
 " 1-17-29 - R.E.L.



FENCING REQUIREMENTS

<u>Starts</u>		<u>More Lin. Ft.</u>	<u>Build. Lin. Ft.</u>
987100-1030100	R	4,300	4,300
1040100-1082100	R	4,200	4,200
1082100-1205100	R		12,300
1170100-1205100	L		3,900
1220100-1504170	R&L		16,940
1205100-1217100	L	260	
<u>Totals</u>		8,760	41,240

GENERAL NOTES

All curves are to be super-elevated to a maximum of 1/8" per ft. width of roadway. The inside ditch and shoulder to remain as per typical Section the outside shoulder is the high point of section. This shoulder is to have place within 60' half occurure, and half on approaching tangent. All excavation outside of ditch and cut slope is shown on plat. See except Ditch Exc. is to be cleared and paid for as borrow Excavation. Unless otherwise noted, all borrow is available on the right of way or immediately adjacent thereto within 300' of where needed.

Grading data shown on the plans is to be considered approximately only. The entire Project is to be cleared for the full width of the right of way. This to be issued on the left side of the Clearing & Grading. All cross cuttings are to be provided with one headwall at inlet and one at outlet where noted on plans.

Utility excavation for inlet and outlet of culverts is listed in Structure List & Common Excavation.

The Down-slope excavation that governs pricing material for the Project can be obtained from Plat #12-242-C-2 and plat #2-2-2 indicated on the Title Sheet. It is planned to use 75,000 cu yds from Plat #2-2-2 to be placed between the 950' and 1000' and 1000' and 1050' cu yds from Plat #12-242-C-2. This excavation is estimated that 10,000 cu yds of Material is available from Plat #2-2-2 and that 15,000 cu yds of Material is available from Plat #2-2-2. This plan involves approximately 28,000 yds. of overhead on Surfaceing Material. If the contractor for his own convenience elects to use a plan other than the above, overhead in excess of the Department's plan will not be allowed.

Track piles of Gravel Surfaceing Material each to contain approximately 100 cu yds, the approximate 1/2 cu yd. of gravel at disposal by the contractor. This material is for use in maintenance operations after completion of the Project.

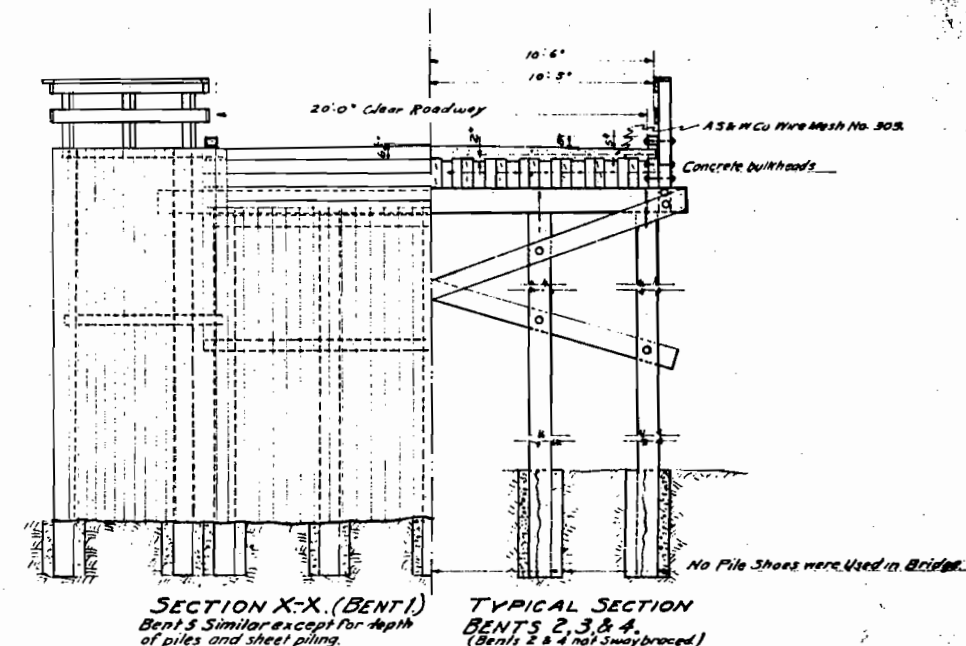
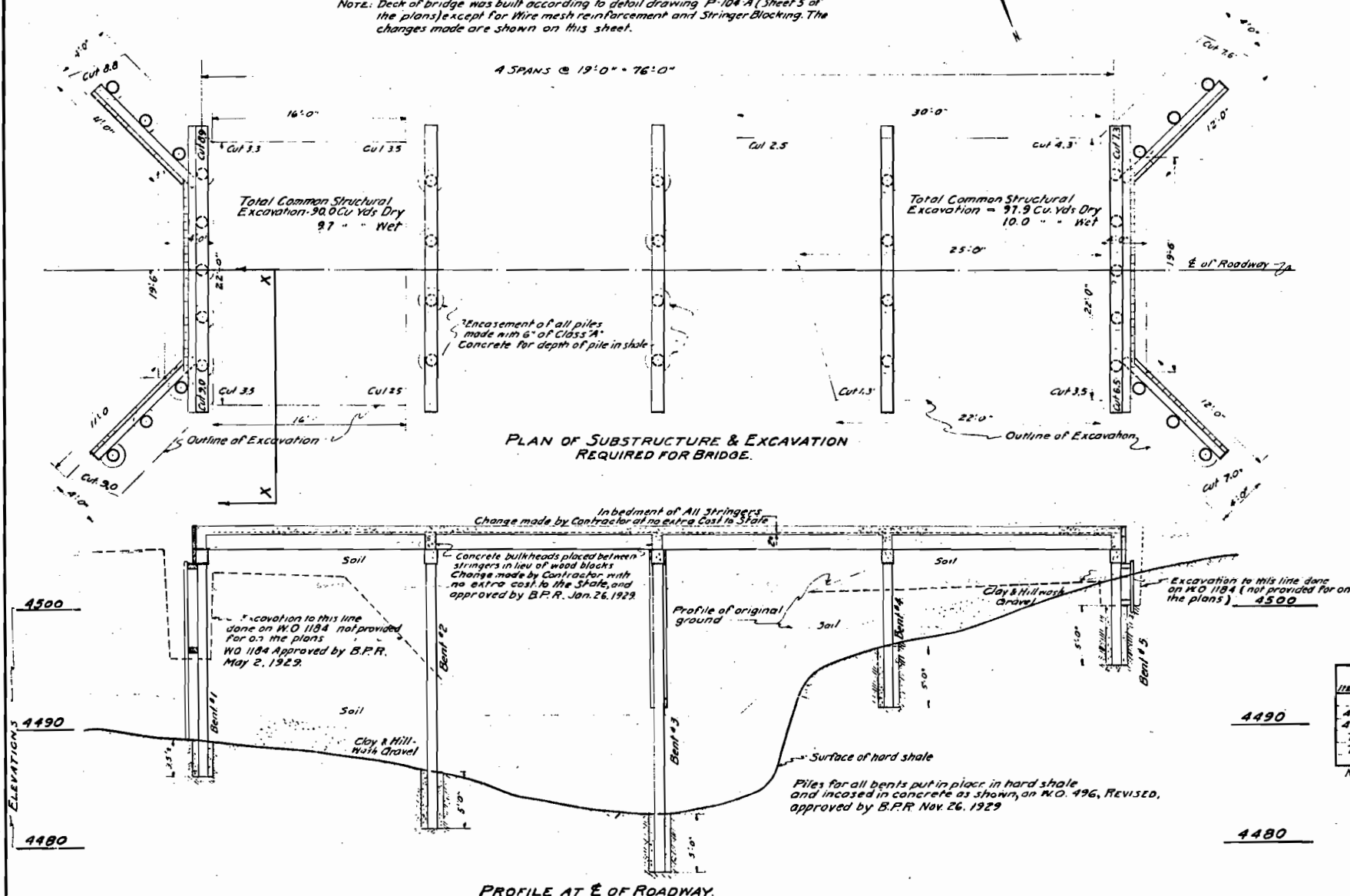
Debris is to be constructed adjacent to Project by State Forces. All quantities on preliminary plans are to be considered approximately only.

LIST OF STRUCTURES

[illegible]

² Structural Excavation is estimated to be 90% Common and 10% Rock, each of which is estimated to be 80% Dry and 20% Wet.

NOTE: Deck of bridge was built according to detail drawing P-104-A (Sheet 5 of the plans) except for Wire mesh reinforcement and Stringer Blocking. The changes made are shown on this sheet.



ITEMS AFFECTED BY CHANGES MADE IN PLANS AS SHOWN ON DRAWING P-104-A, SHEET 5.

ITEM NO.	WO NO.	DESCRIPTION	UNIT	AMOUNT
41-b	496 Revised	6" Shell around 5' of base of piles in Wings and Bents See note below.	Cu Yd.	9.0
42	"	Treated Timber Piling	Lin. Ft.	860
7-a	1184	Shoes for Piles (Absorbed by State)	Each	38
7-b	1184	Dry Common Structural Excavation not included in plans.	Cu Yd.	187.9
7-c	1184	Wet " " " "	"	19.7

NOTE: Piles were transferred to the State @ cost to Contractor and were put in place with incasement shown on plans by force account for labor and material

BILL OF MATERIAL FOR BRIDGE AS CONSTRUCTED.

ITEM NO.	DESCRIPTION	UNIT	AMOUNT
7-a	Dry Common Structural Excavation	Cu Yd.	187.9
7-b	Wet " " "	"	19.7
2-a	Remove old structures	L. S.	Lump Sum
33-a	Concrete Class "A"	Cu Yd.	31.0
35	Reinforcement	Lbs	1800
40-a	Timber Untreated	MFT. BM.	3.9
40-b	" Treated	"	16.6
41-b	Treated Timber Piling	Lin. Ft.	860
41-c	Sheet Piling	"	2016
41-d	Driving Piles, etc. by State Forces	L. S.	Lump Sum

COLORADO
STATE HIGHWAY DEPARTMENT
DETAILS OF MACK WASH
BRIDGE AS CONSTRUCTED

Across Mack Wash
Sta. 1248+00 to 1248+77
Near MACK Sec. 34T.2N R. 103W.

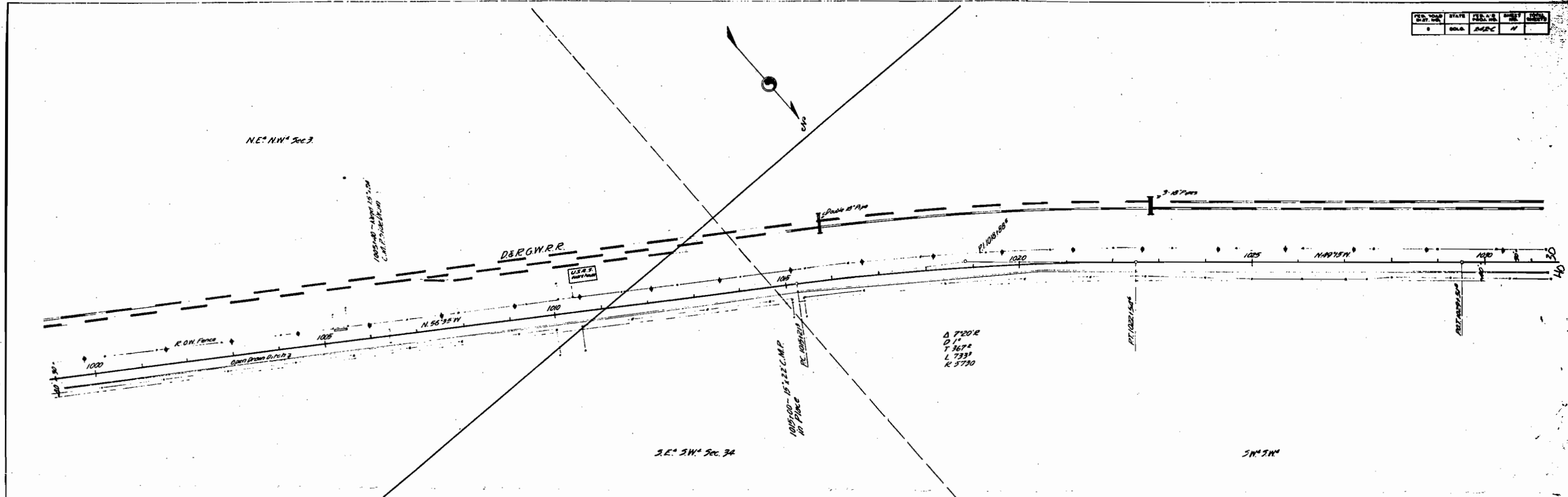
Designed by
Made by R.M.A.
Checked by P.S.B.

Approved by
Bridge Engineer
Date: 1929

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	OHIO	2025	10	

PER. ROAD	STATE	PER. A.S.	SHEET	DATE
1	GA.	1000	10	1919

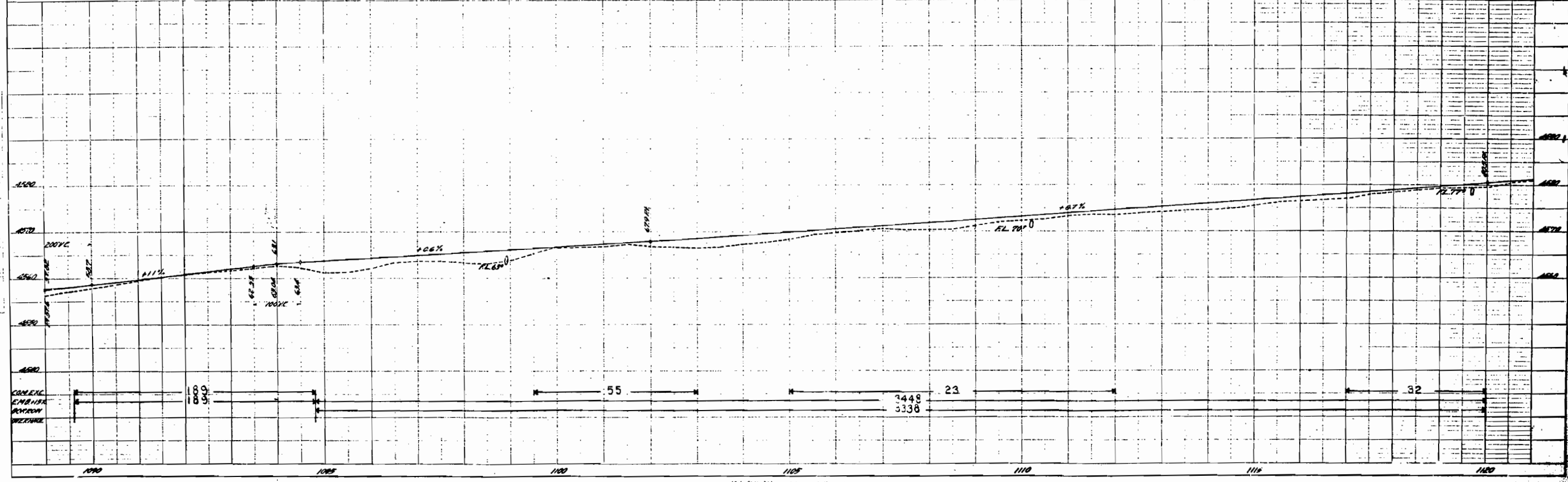
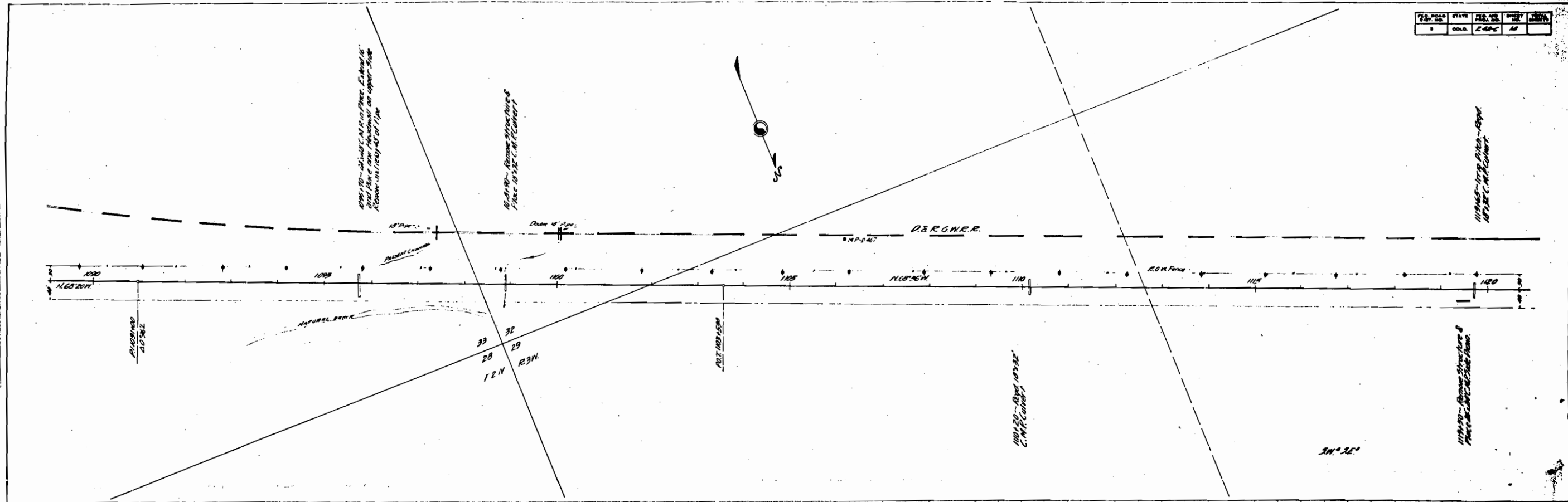
PLAN
NOTE: SEE ALSO SHEET 10
1000

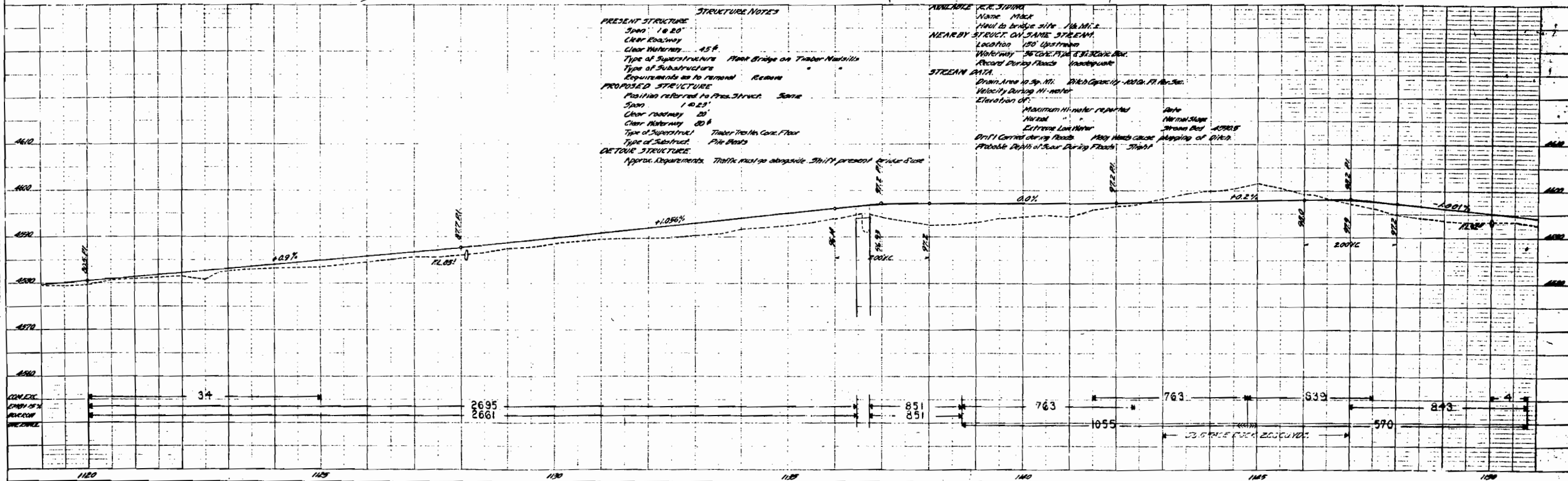
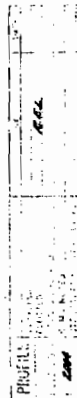


F.D. ROAD DIST. NO.	STATE	F.D. NO.	DATE	BY
1	COLO.	2-48-C	AS	

PLAN
DATE 1954
NO. 2002

PLAN
DATE 1954
NO. 2002



[illegible]

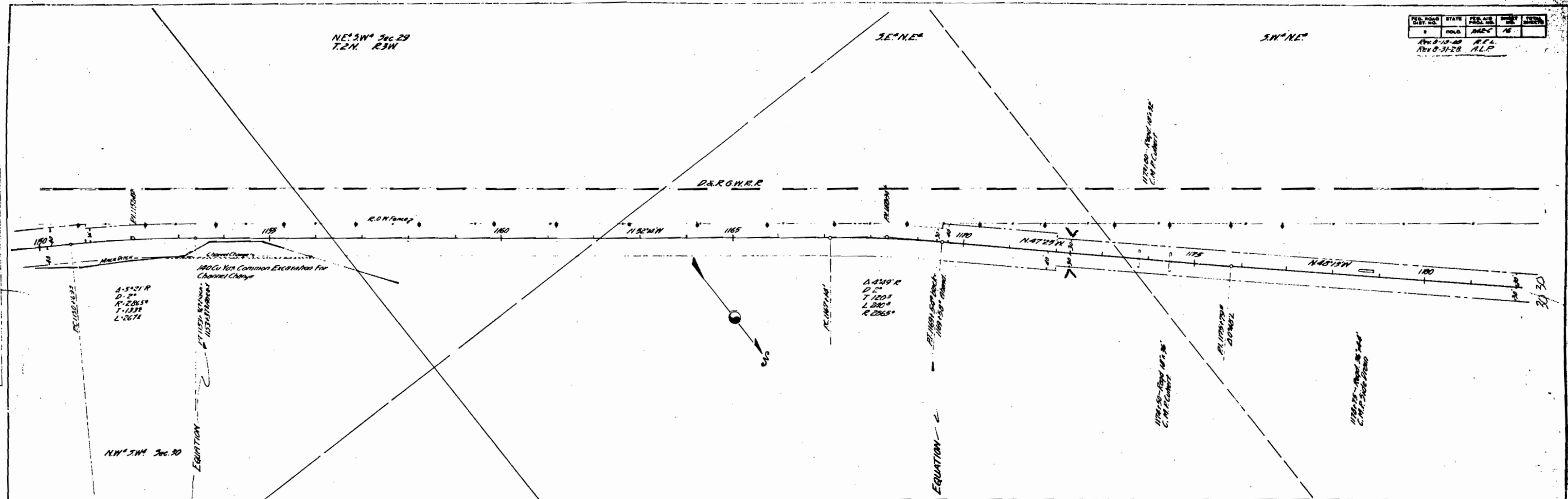
FED. ROAD DIST. NO.	STATE	FILE NO.	DATE	BY
2	COLA	242	1/6	
Rev 8-15-68 RFL				
Rev 8-31-68 ALP				

NE 3/4 Sec 29
T.2N. R.3W

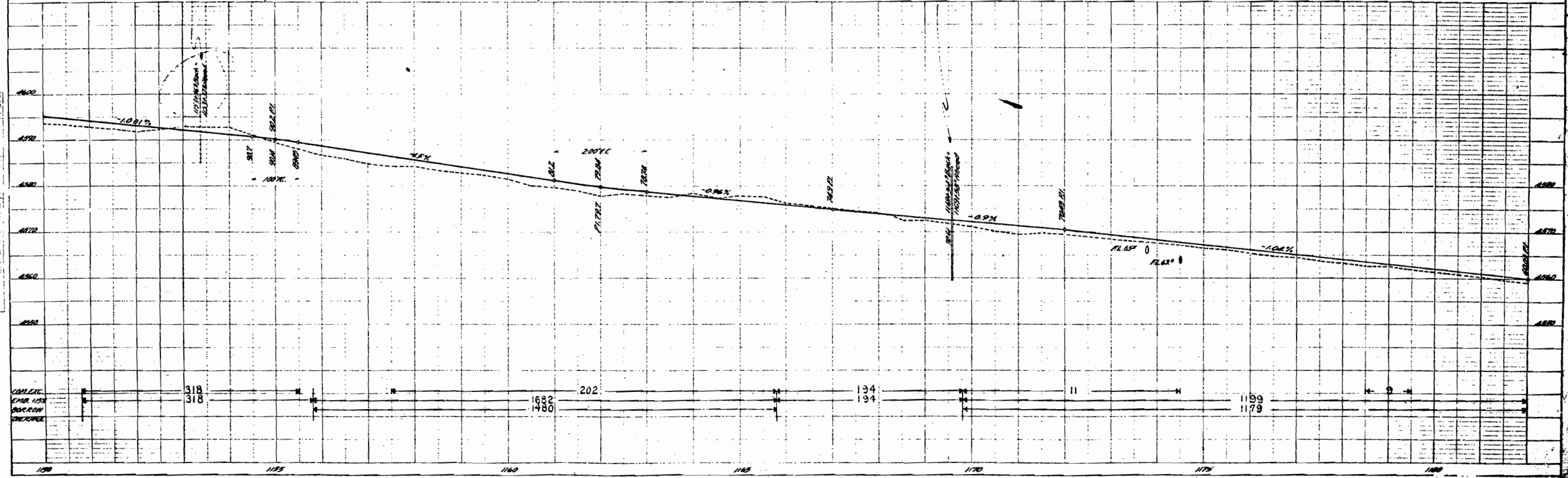
3E NE 4

SW NE 4

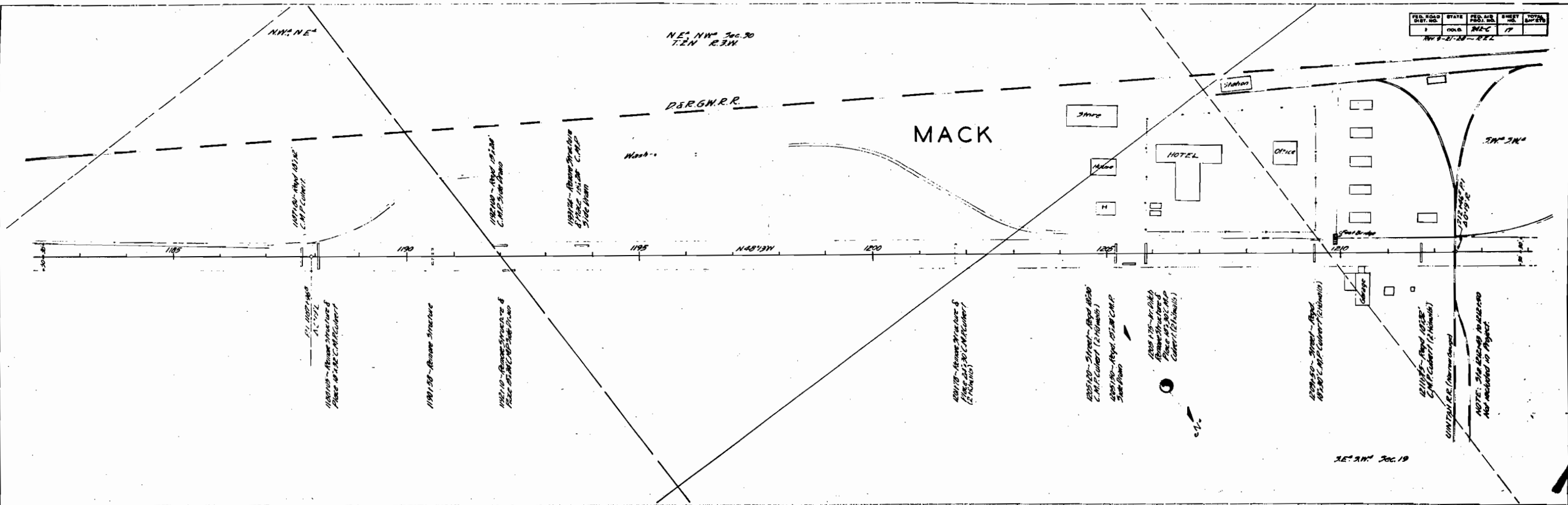
PLAN	DATE	BY
PLAN	1/2	ALP



PROFILE	DATE	BY
PROFILE	1/2	ALP

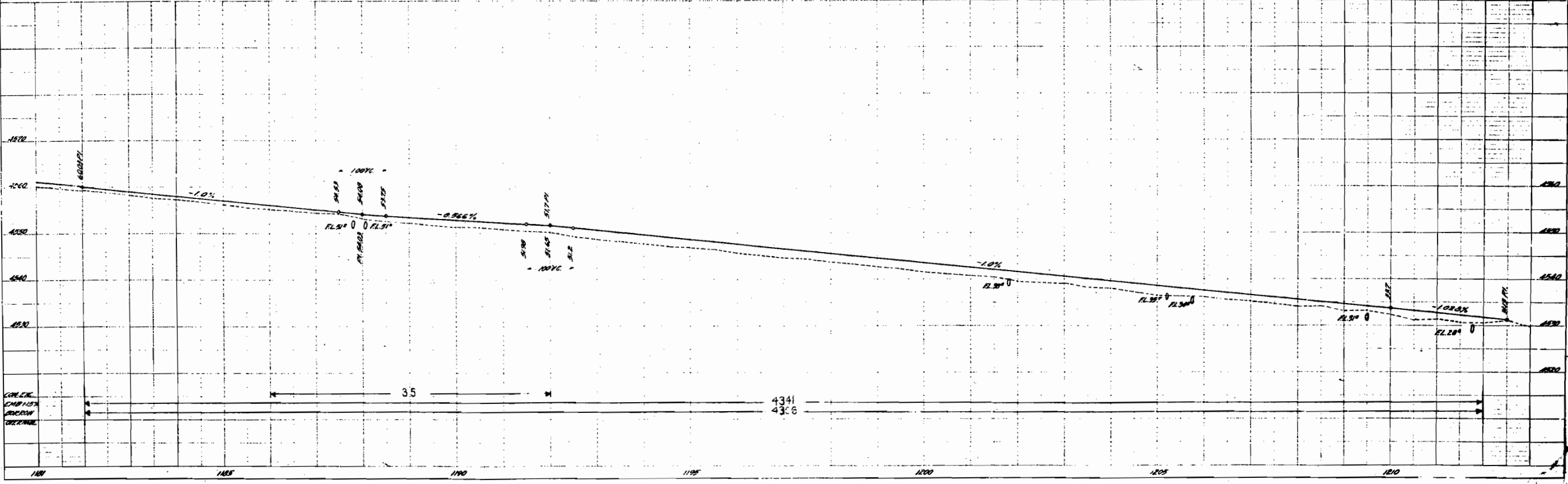


PLAN
 11/20/50
 11/20/50
 11/20/50



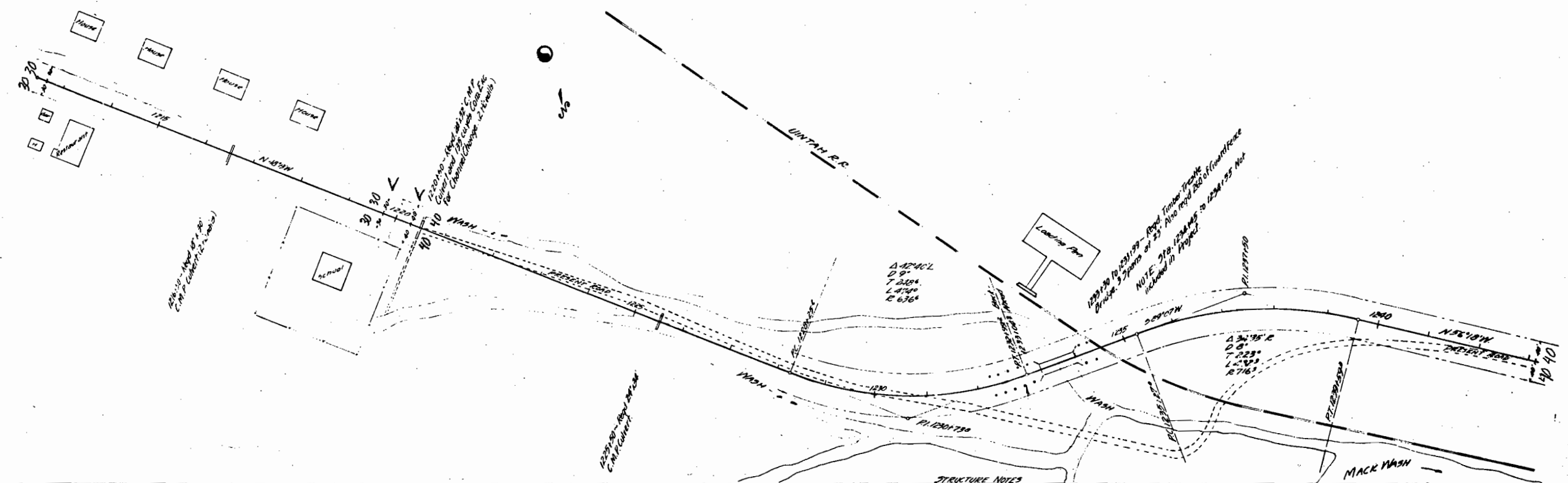
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MINN.	NEC	17	17

PROFILE
 11/20/50
 11/20/50
 11/20/50

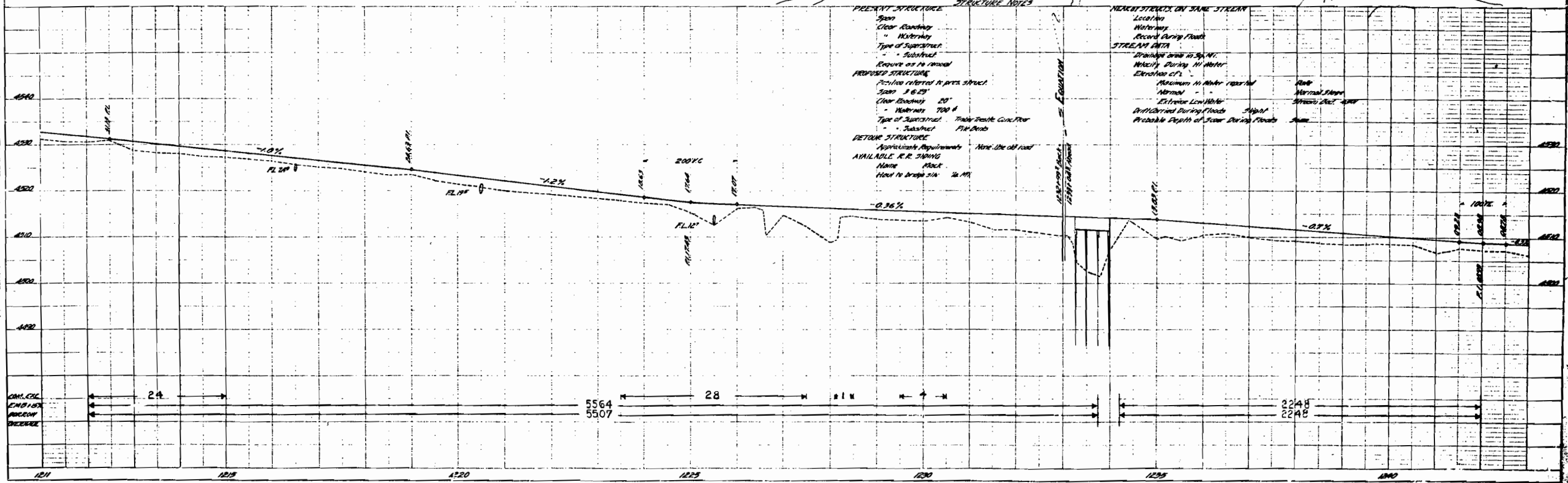


COMPLETION
 11/20/50
 11/20/50
 11/20/50

PLAN
SCALE
NOTE: BRIDGE PILES
ARE TO BE
LOCATED
AS SHOWN



PROFILE
SCALE
NOTE: BRIDGE PILES
ARE TO BE
LOCATED
AS SHOWN

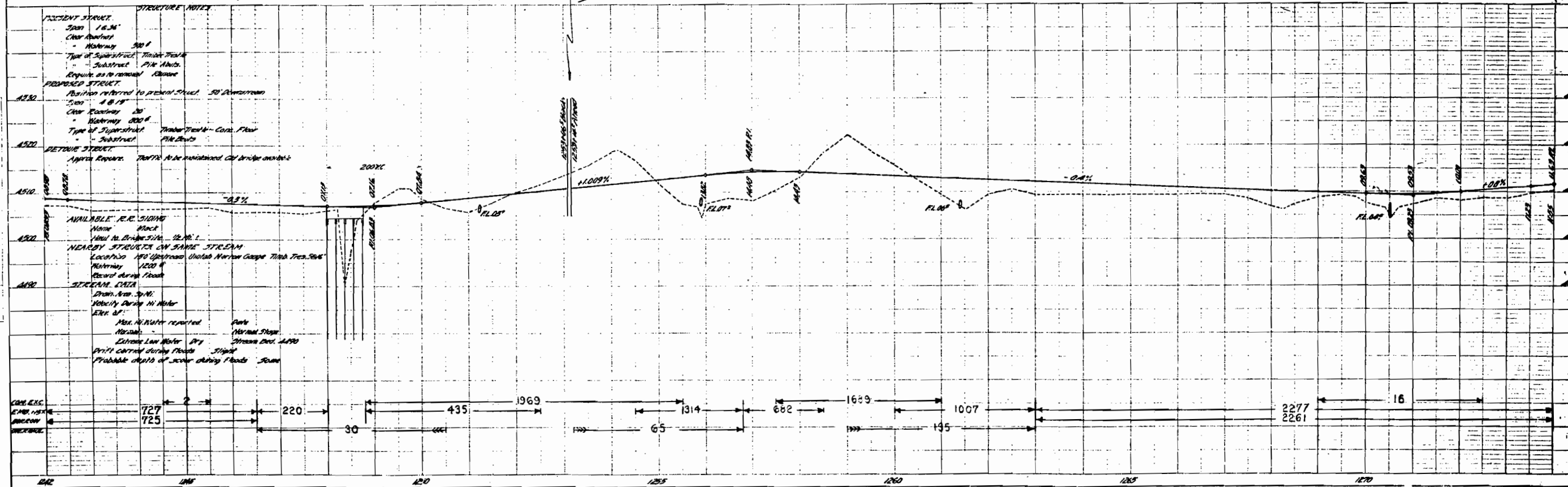
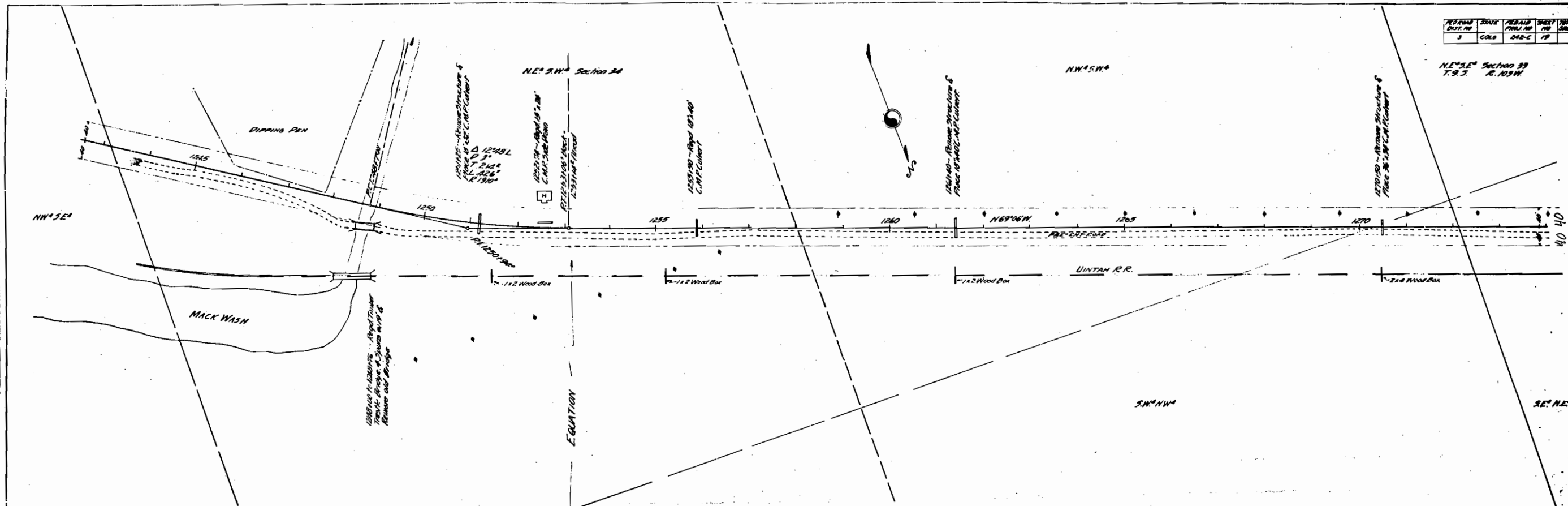


PLAN	DATE	BY	CHKD
NOTE: ELEVATION OF ALL POINTS IS IN FEET			
NO.			

PROFILE	DATE	BY	CHKD
NOTE: ELEVATION OF ALL POINTS IS IN FEET			
NO.			

PERMANENT DIST. NO.	DATE	PERMANENT PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	542-C	19	

NE 1/4 Section 33
T.9.S. R.10.W.



STRUCTURE NOTES

EXISTING STRUCT.
Span 16.36'
Clear Roadway 20'
Waterway 200'
Type of Superstructure Timber Trestle
Substructure Pile Drills
Requires as to removal of bridge

PROPOSED STRUCT.
Railroad referred to present structure 50' downstream
Span 48.19'
Clear Roadway 20'
Waterway 200'
Type of Superstructure Timber Trestle - Cast Steel
Substructure Pile Drills

DETOUR STRUCT.
Approach Report: Traffic to be maintained, old bridge removed

AVAILABLE R.R. SIDING
Name Mack
Haul to Bridge Site 12 mi. 1

NEARBY STRUCTURE ON SAME STREAM
Location 150' upstream of bridge
Waterway 1200'
Record during floods

STREAM DATA
Drain Area 50 mi.
Velocity during H. Water
Elev. of:
Max. H. Water reported
Normal
Extreme Low Water 87'
Depth carried during floods
Probable depth of scour during floods

