

FED. ROAD DIST. NO.	STATE	U.S.W.P.H. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	WPMH 226-C*2	1	

Rev. for APPROVAL 2/3/36 L.A.F.
Rev. 5/15/36

INDEX OF SHEETS

1. SKETCH MAP AND TITLE
2. TYPICAL SECTIONS AND SUMMARY OF QUANTITIES
3. TABULATION OF STRUCTURES
- 4 TO 9. DETAILS OF BRIDGE STA. 75+
- 10 " 11. " " " 88+
12. " " TILE DRAIN LINE STA. 87+ TO STA. 110+
13. " CONCRETE MANHOLES AND REINFORCED CONCRETE PIPE SIPHON
14. STANDARD CONCRETE BOX CULVERT (8'x4')
15. REINFORCED CONCRETE CULVERT PIPE
16. STANDARD HEADWALLS FOR C.M.P. CULVERTS
17. " FLEXIBLE METAL PLATE GUARD FENCE
18. " WIRE FENCES WITH STEEL POSTS AND MARKER POSTS
19. " STRUCTURE NUMBER LETTERING
20. " METHODS FOR SUPERELEVATION OF CURVES
21. TYPICAL SIDE APPROACH ROADS / ROADWAY CONSTRUCTION TRAFFIC SIGNS
- 22 & 23. PLAN AND PROFILE
- 24 TO 35. CROSS SECTIONS

- M-104-D
- M-112-A
- M-102-E
- M-22-A
- M-27-A
- M-10-A
- M-1-A
- M-2-B

COLORADO STATE HIGHWAY DEPARTMENT

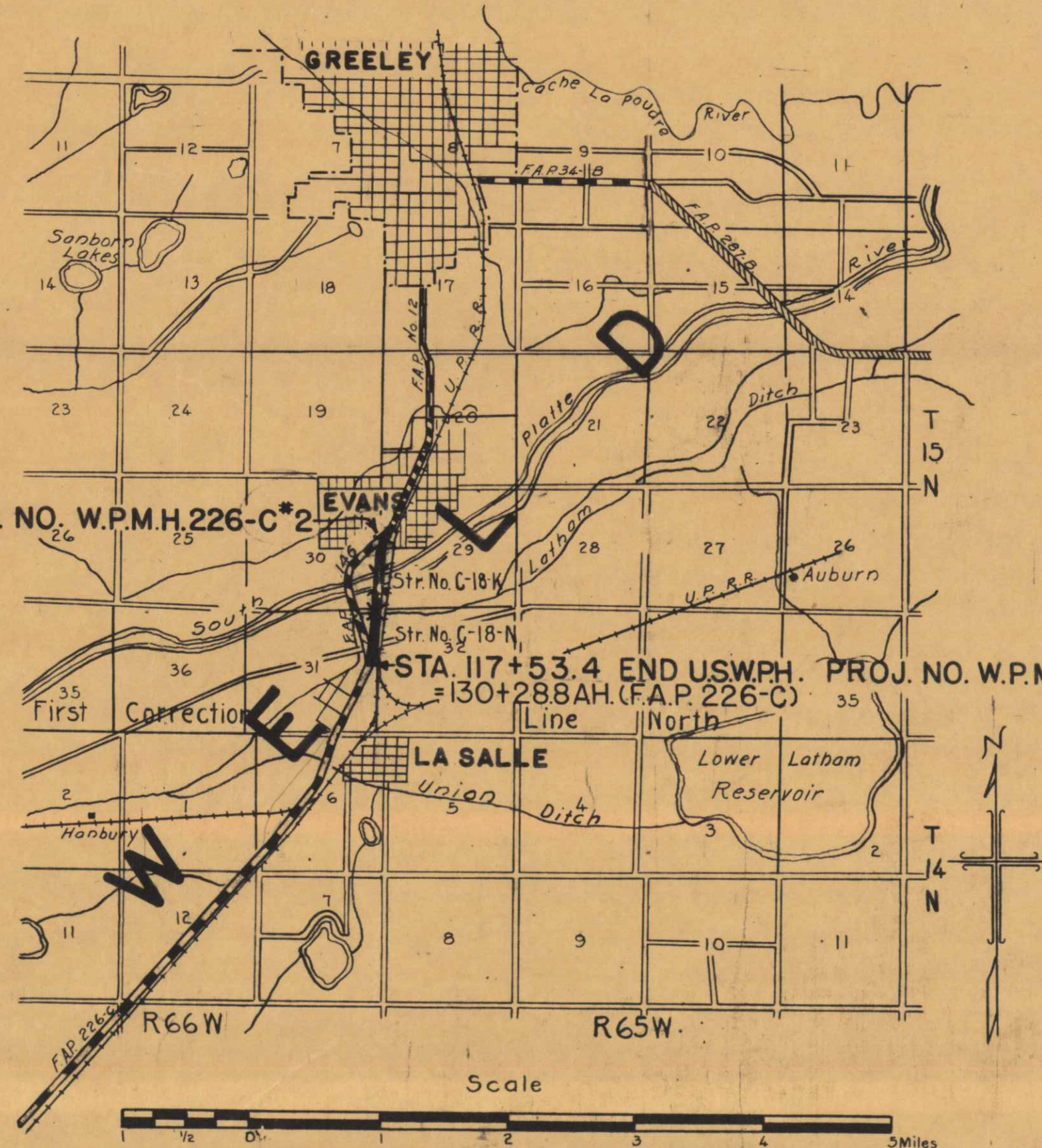
PLAN AND PROFILE OF PROPOSED U.S. WORKS PROGRAM HIGHWAY PROJECT NO. W.P.M.H. 226-C*2 STATE HIGHWAY NO. 2 3 WELD COUNTY

SCALES ON 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 } 5054.1 FEET = 0.957 MILES
NET LENGTH OF PROJECT }

CONVENTIONAL SIGNS

Center Line of survey $\frac{85}{1}$
Right of Way Line $\frac{85}{1}$
Section Line $\frac{85}{1}$
One Quarter Section Line $\frac{85}{1}$
Railroad $\frac{85}{1}$
Telegraph Line ϕ ϕ ϕ ϕ
Fence $\times$ $\times$ $\times$ $\times$
Present road $\frac{85}{1}$

STA. 66+93.74H. BEGIN U.S.W.P.H. PROJ. NO. W.P.M.H. 226-C*2



NOTE

It is recommended that bidders on this project go over the plan details with one of the following field representatives of this department.
R.J. Randall, Acting Div. Engineer, Greeley, Colo.

RECOMMENDED FOR APPROVAL 1/30/36

J. J. Maloney
ASSISTANT ENGINEER

APPROVED
Chas. O. Fair
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL

DIST. ENG. BUREAU PUBLIC ROADS

RECOMMENDED FOR APPROVAL

CHIEF ENG. BUREAU PUBLIC ROADS

APPROVED

DIRECTOR BUREAU PUBLIC ROADS

DATE	3-23-53
BY	C. J. JOHNSON L. H. JOHNSON
SURVEYED	
PLOTTED	
NOTE BOOK	
GRADES CHECKED	
B. M. NOTED	
STRUCTURE NOTATIONS CH. 40	
NO. 5	
PROFILE	

SW $\frac{1}{4}$ Sec 5, T3N, R66W

PO.T Orig Line 617+988
618+515 BK = orig 8
618+493 Ab-PC Lili

6/9/15-24/425206 Siphon
Wdr. Maintenance Perillman Says
Siphon overflows on Easternd.
Frame Outflow-Conc Vault
Frame Garage-w/bricks
Cr. 19. LIME Rt. 6/19/982
Frame Outflow-Conc Vault
Frame
Grease Station
Tile Filling Station Conc found. Basement
3 Under-ground Tanks.

"J" Line
 $\Delta = 5^{\circ}06'Lt$
 $D = 1^{\circ}$
 $T = 255^{\circ}$
 $L = 510^{\circ}$
 $E = 57$
 $R = 5730$

621 + 90 = 719 A.H. P.C.

Orig Line
 $\Delta = 14^{\circ} 54'$
 $D = 5^{\circ} \text{ Rt.}$
 $T = 149^{\circ} 9'$
 $L = 298^{\circ}$
 $E = 98$
 $R = 1146$

Orig P.T. 624+959

ec 6
66W.

Shody Lane
Farmsite

"U" Line
 $\Delta = 5^{\circ}06' \text{ At}$
 $D = 1^{\circ}$
 $T = 255^{\circ}$
 $L = 510^{\circ}$
 $E = 5^{\circ}$
 $R = 5730$

P.T. "J" Line 633+71.2 Bk =
P.O.T. Orig Line 633+75.4h

Continental Oil Co. 8" Pipe Line

2

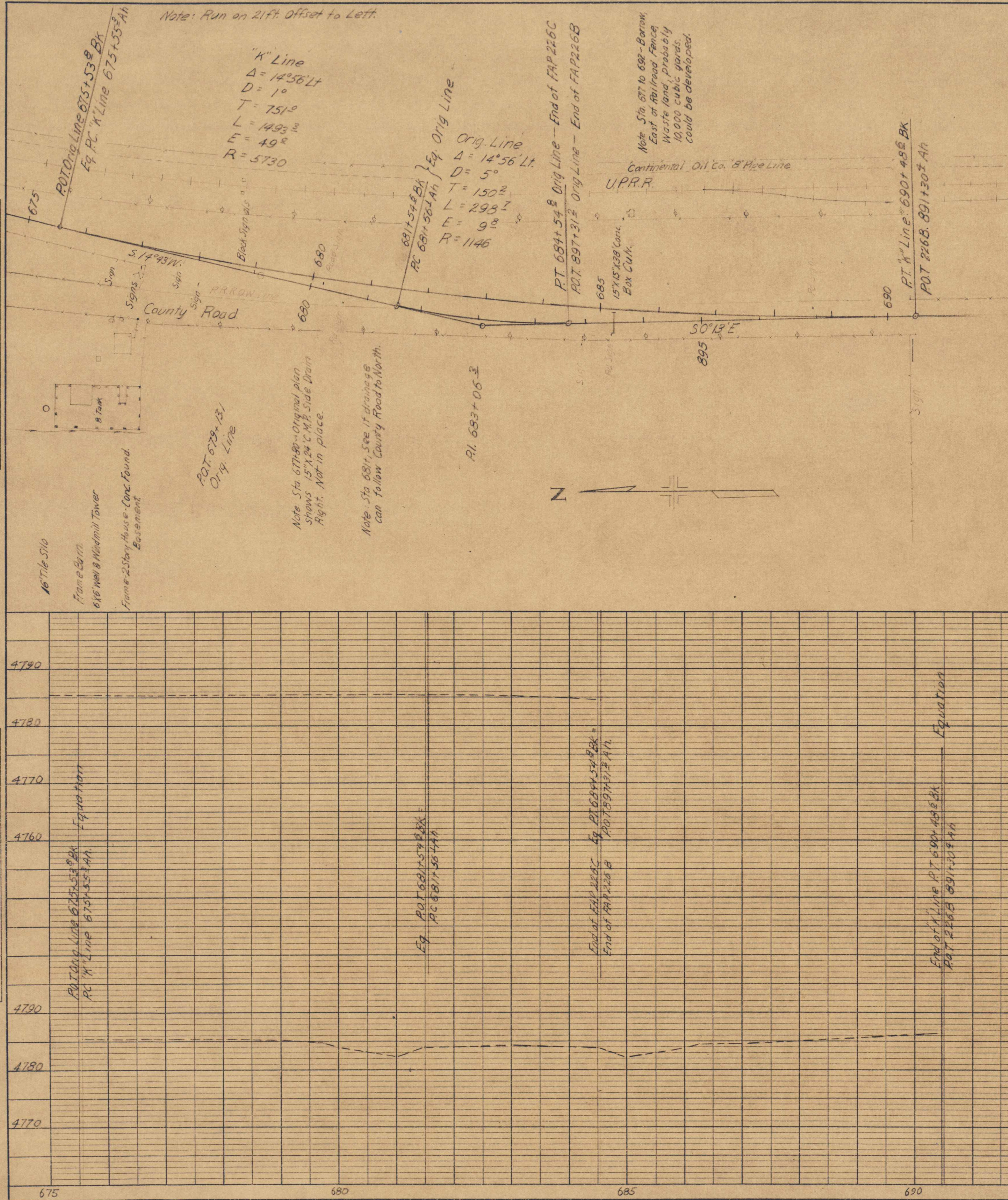
Eq. HOT 643-21-154 =
DT 643-20713

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F.A.P.226-C	15	206

695

PLAN	DATE	BY	CHECKED
NO. 1	7-13-27	W. C. C.	W. C. C.
NO. 2	7-13-27	W. C. C.	W. C. C.
NO. 3	7-13-27	W. C. C.	W. C. C.
NO. 4	7-13-27	W. C. C.	W. C. C.
NO. 5	7-13-27	W. C. C.	W. C. C.
NO. 6	7-13-27	W. C. C.	W. C. C.
NO. 7	7-13-27	W. C. C.	W. C. C.
NO. 8	7-13-27	W. C. C.	W. C. C.
NO. 9	7-13-27	W. C. C.	W. C. C.
NO. 10	7-13-27	W. C. C.	W. C. C.

PROFILE	DATE	BY	CHECKED
NO. 1	7-13-27	W. C. C.	W. C. C.
NO. 2	7-13-27	W. C. C.	W. C. C.
NO. 3	7-13-27	W. C. C.	W. C. C.
NO. 4	7-13-27	W. C. C.	W. C. C.
NO. 5	7-13-27	W. C. C.	W. C. C.
NO. 6	7-13-27	W. C. C.	W. C. C.
NO. 7	7-13-27	W. C. C.	W. C. C.
NO. 8	7-13-27	W. C. C.	W. C. C.
NO. 9	7-13-27	W. C. C.	W. C. C.
NO. 10	7-13-27	W. C. C.	W. C. C.



FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F.A.P. 226-C	17	206

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.

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 100-ft. on 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, C. L. and other features affected. Establish bench marks and give location of same. Reference C. L. and water path 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. 7 County Weld Route 3 Sec. Sta. 372+25
 Date of survey June 16, 1939 To be built by

1. Bridge Site

Location *In Peckham*
Sec. 23 Twp. 4 N Range 66 W Local name *Western Ditch*
Over *Western Mutual Ditch* River Creek
Distance from nearest shipping point *200 ft*

2. Source of materials

	Length of haul to site				miles
Sand					
Gravel	"	"	"	"	"
Stone	"	"	"	"	"
Falsework Timber	"	"	"	"	"
Piling	"	"	"	"	"

3. Cost Data.

Cost of following materials at site	
Portland Cement	Per Bbl.
Sand, coarse and clean	" Cu. Yd.
Gravel	" " "
Stone	" " "
Falsework Timber	" Ft. B. M.
Piling	" Lin. Ft.
Cost per ton-mile for hauling	

4. Waterway.—

Drainage area in Sq. Miles (approximate) *Letter from Secretary (5-18-39) says*
Character of watershed *bridge is large enough for present appropriation*
Elevation of Highest water *4718.4* Date _____
Source of information on water elevation _____
Elevation of ordinary high water *4717.7*
Elevation of low water *4715.6 (Dry)*
Elevation of permanent ground-water _____
Is stream ever dry? *Yes* During what months? *Oct. to May*
Will all flood water pass through recommended structure? *Yes*
Can channel be cleaned to afford more waterway? *Not necessary*
Is stream-bed cutting or silting up? *Neither*
Is stream stable in its banks? *Yes* Depth of scour? *None*
Does stream carry light, medium, or heavy drift? *None*
What clearance above high water should be allowed? *0.1 Ft*
Is channel change necessary? *No*
If channel change is necessary, illustrate location on sketch map.

5. Foundation Data.

Character of material Well drill to be used later
 Distance from stream-bed to solid foundation _____
 Recommended depth of footings _____
 Should piles be used? _____ What length? _____ Pile Shoes? _____

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. Photographs if available.

Type Concrete Slab Roadway Width 19 Ft. Number and length of spans 1-12 ft.

Area of waterway provided under old structure 35 Sq. Ft., Elev. of Underclearance 478.7

Has this area proved sufficient at flood times? Yes Skew Angle 90°

Is it too large? No Disposition of Existing Structure To be extended

7. Give foundat

Sketch profile of Rail Road Crossing if within 1000 ft. of Highway. (Show X-section of entire waterway.)

Elevation of base of Rail 4720.0 Elevation of Rail Road Underclearance 4718.4

Remarks Area of waterway 33 sq ft

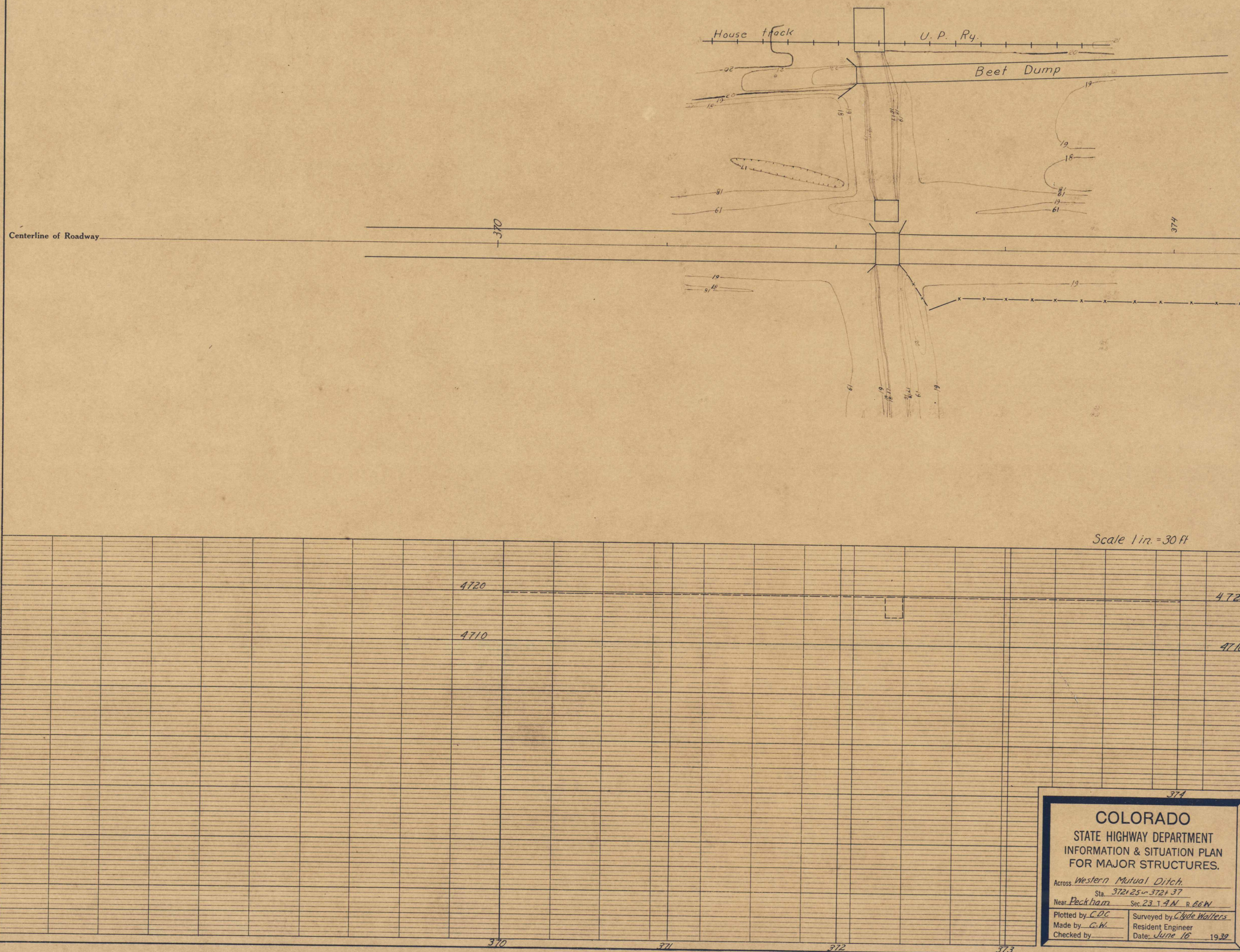
8. Recommendations for New Structure

Recommendations for New Structure. — *Extend present structure*
 Type _____ Width curb to curb _____ Number and length of spans *1*
 What is the least clear span permissible? *12 ft*
 Are sidewalks desired? *E. side* Lighting conduit? *No* Light standards? *No*
 Angle of Skew recommended *90°*
 Will approaches be desired, or will same be filled?
 Approximate cost per Cu. Yd. of approach-filling at bridge site?
 Is it necessary to maintain traffic alongside old structure?

If so, how shall it be done?		
R. R. Siding	Peckham	Haul to Bridge Site
Remarks	Present bridge constructed on original FAP 226-G	Submitted by Clyde Walters, Res. Engineer.
		Mi.

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 SHEET
3	COLO.	2269	19	20



Scale 1 in. = 30 ft

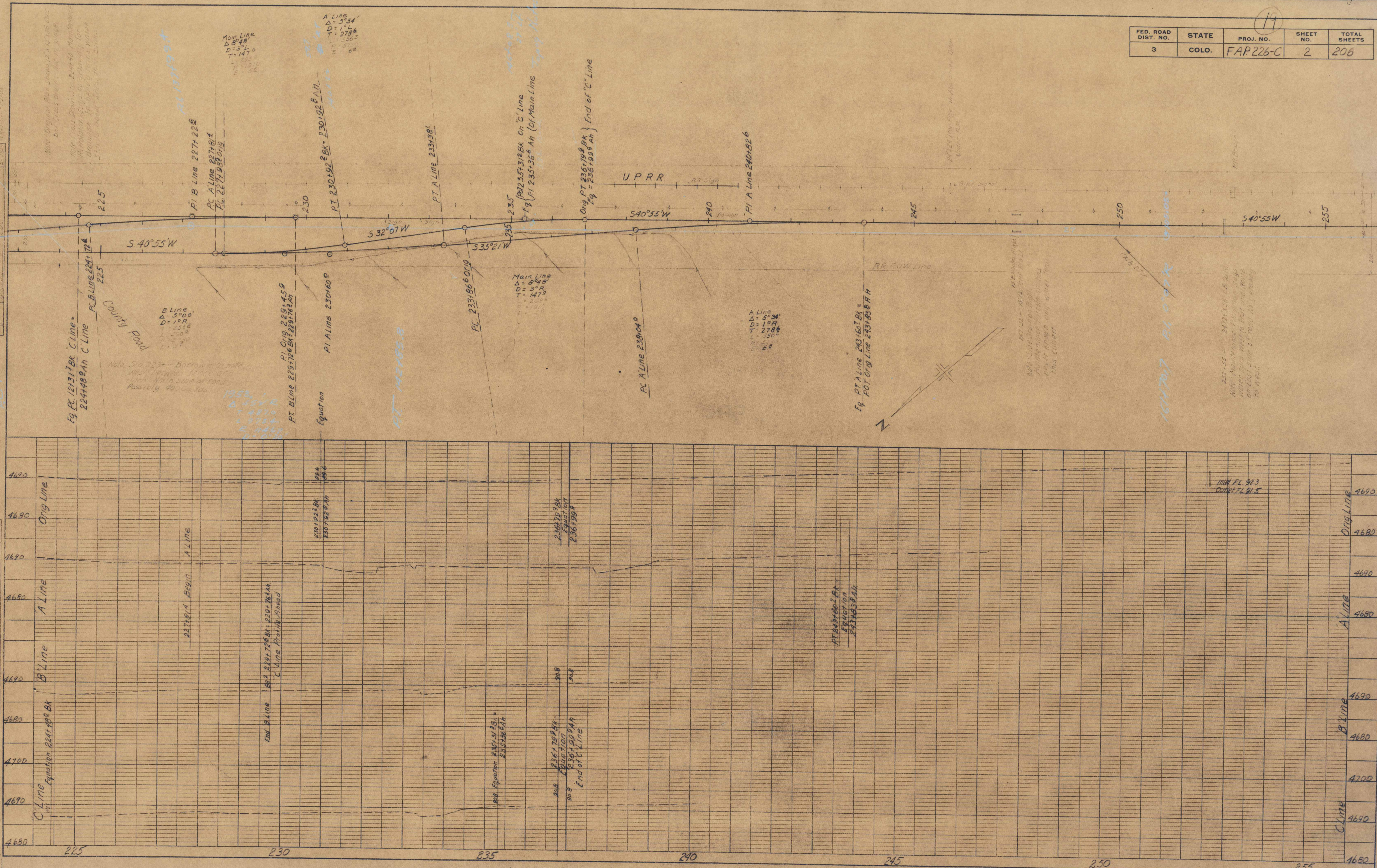
COLORADO
STATE HIGHWAY DEPARTMENT
INFORMATION & SITUATION PLAN
FOR MAJOR STRUCTURES.

Across Western Mutual Ditch.
Sta. 3721.25 ~ 3721.37
Near Peckham Sec. 23 T. 4 N. R. 66 W.
Plotted by CDC Surveyed by Clyde Walters
Made by C.W. Resident Engineer
Checked by _____ Date: June 16 1938

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

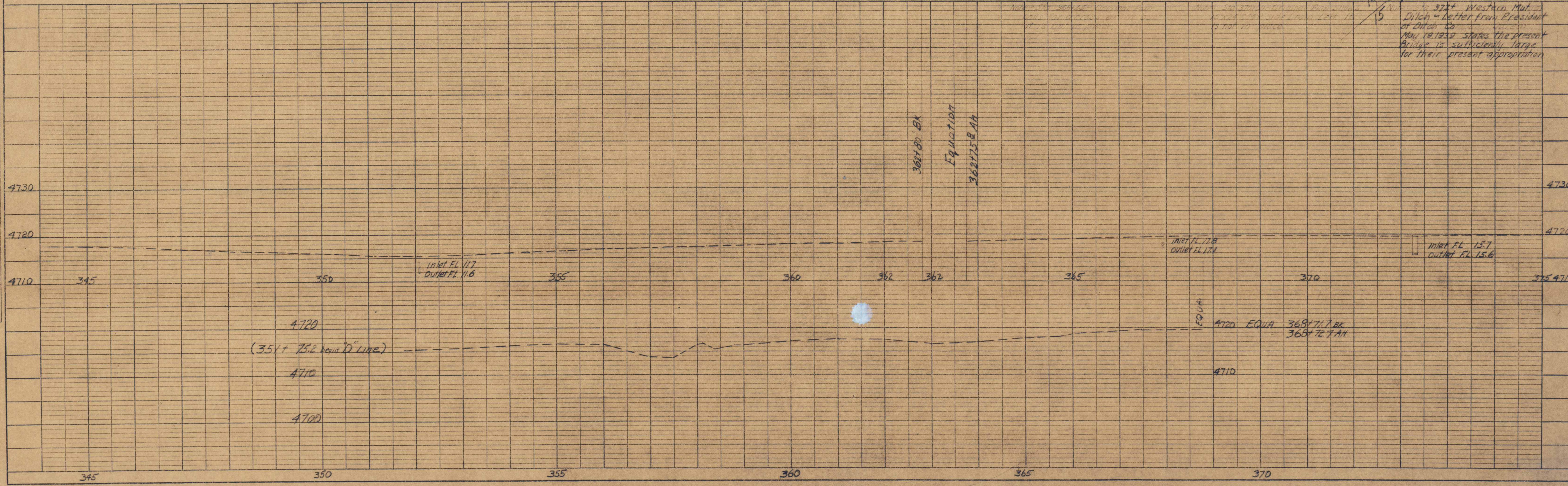
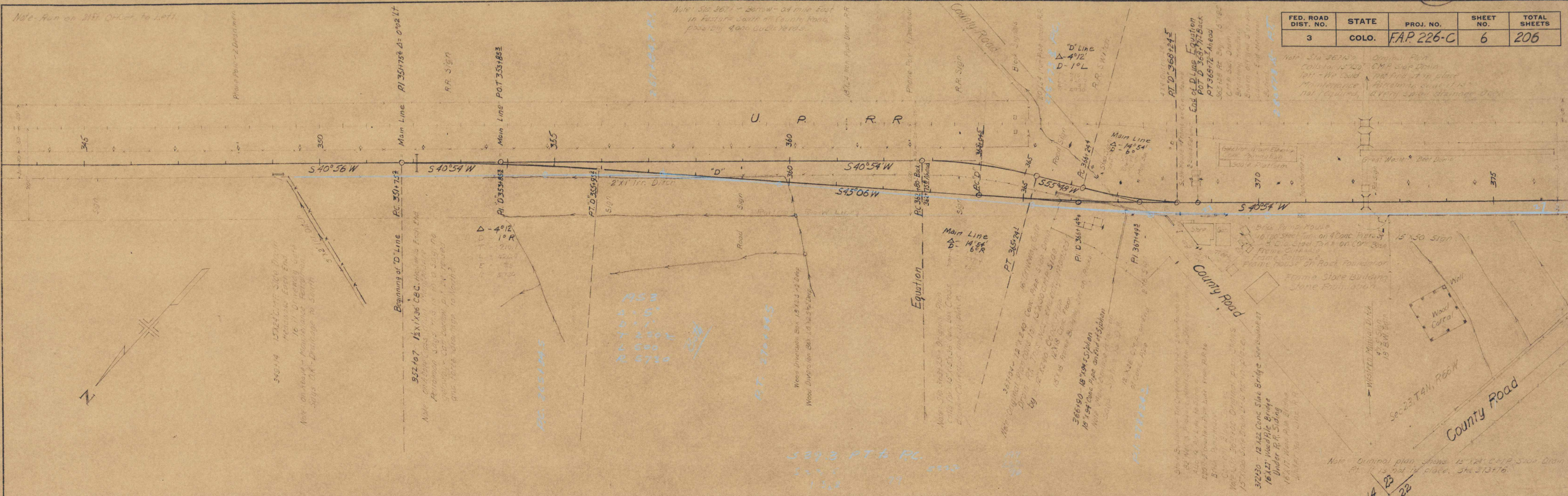
PROFILE	DATE	BY
	NO.	DATE
PLAN	DATE	BY
	NO.	DATE

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	FAP226-C	2	206



PLAN	DATE	BY
SURVEYED	1922	CHAS. L. LITTLE
PLOTTED	1922	CHAS. L. LITTLE
NOTE BOOK	1922	CHAS. L. LITTLE
GRADES CHECKED	1922	CHAS. L. LITTLE
BY M.A. NOTED	1922	CHAS. L. LITTLE
NO. 1112	1922	CHAS. L. LITTLE

PROFILE	DATE	BY
SURVEYED	1922	CHAS. L. LITTLE
PLOTTED	1922	CHAS. L. LITTLE
NOTE BOOK	1922	CHAS. L. LITTLE
GRADES CHECKED	1922	CHAS. L. LITTLE
BY M.A. NOTED	1922	CHAS. L. LITTLE
NO. 1112	1922	CHAS. L. LITTLE



FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	FAP. 226-C	6	206

20

DATE	8-22
BY	W. J. H. H.
SURVEYED	
PLOTTED	
GRADES CHECKED	
B. M. NOTED	
STRUCTURE NOTATIONS CHECKED	
PROFILE	
NOTE BOOK	
NO. 416	

P.O.T. Orig. Line 376+312

790+95 ~ 18' x 12' x 15' C.B.C. Under
Road Approach

County Road

P.O.T Orig Line 392+72g

Main Line
 $\Delta = 14^{\circ}54'$
 $D = 6^{\circ}L$
 $T = 124^{\circ}2$
 $L = 248^{\circ}3$
 $R = 955^{\circ}2$
 $E = 84$

"E" Line
 Δ 5005'L
D 10
T 2542
L 5083
R 5730
E 57

P.T.E"Line 400+53.29k=

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F.A.P. 226-C	7	206

R.R. Block Signal
36" X 43' Iron
Pipe Siphon
Under R.R.
10" X 2 1/2' Conc.
Pipe in Ditch
Junction

Main Line
 Δ 14°55'
D 6° R
T 125°
L 248°
R 955°
E 82

pt. Orig. 401+410

402+36 ~ 36" x 36" x 40.5 Conc. Box Siphon

Note: Wing of *S. n. n.* is broken
 (Museum of Natural History, O.A.)

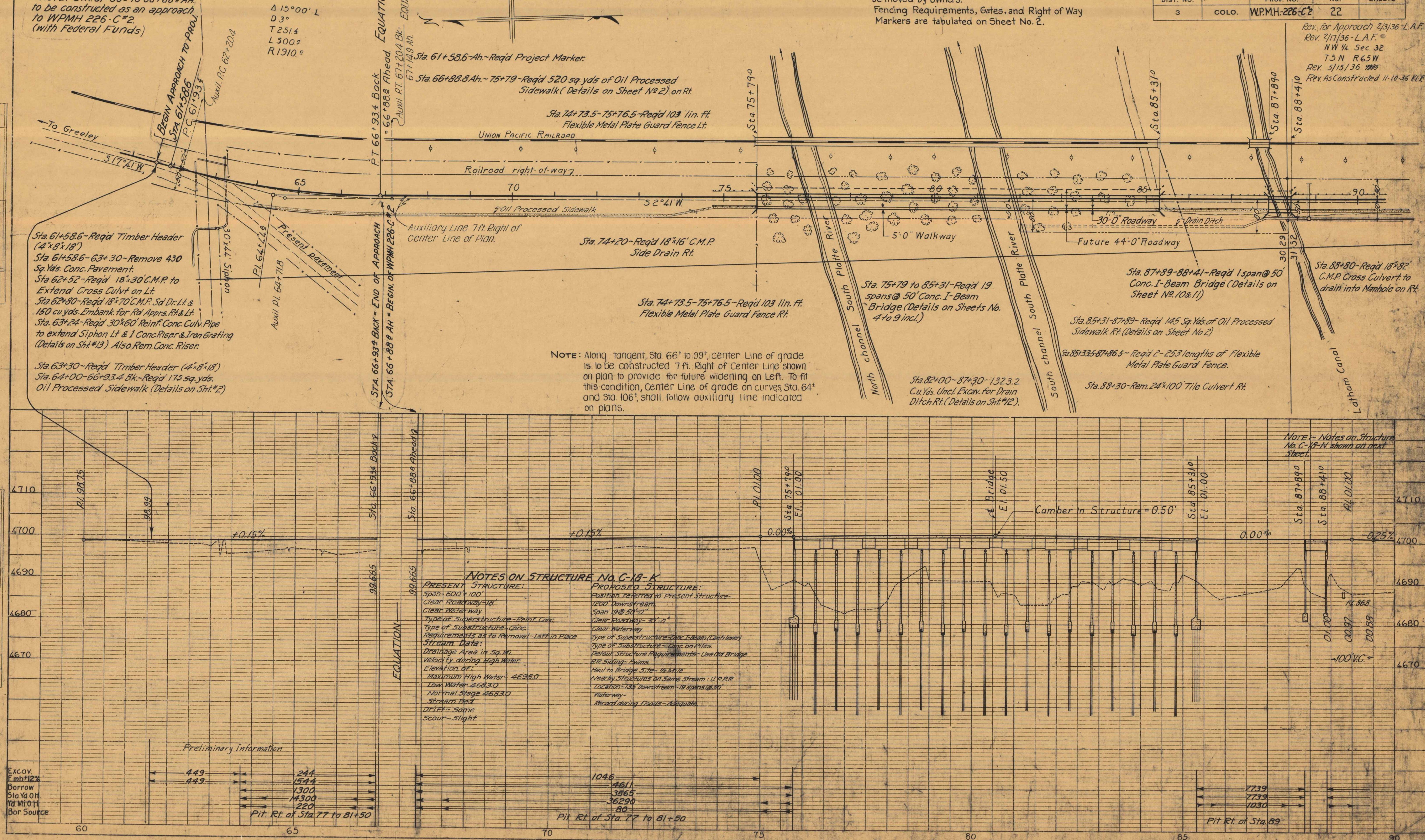
Equa $\begin{cases} 395 + 44^\circ BK = \\ 395 + 44^\circ Ah \end{cases}$ Begin "E" Line

Eq. 23 398 916.94
398 916.94

$$400 \times 53.5\% =$$

inlet FL 26.5
outlet FL 26.0

PLATE 1—PLAN—PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK



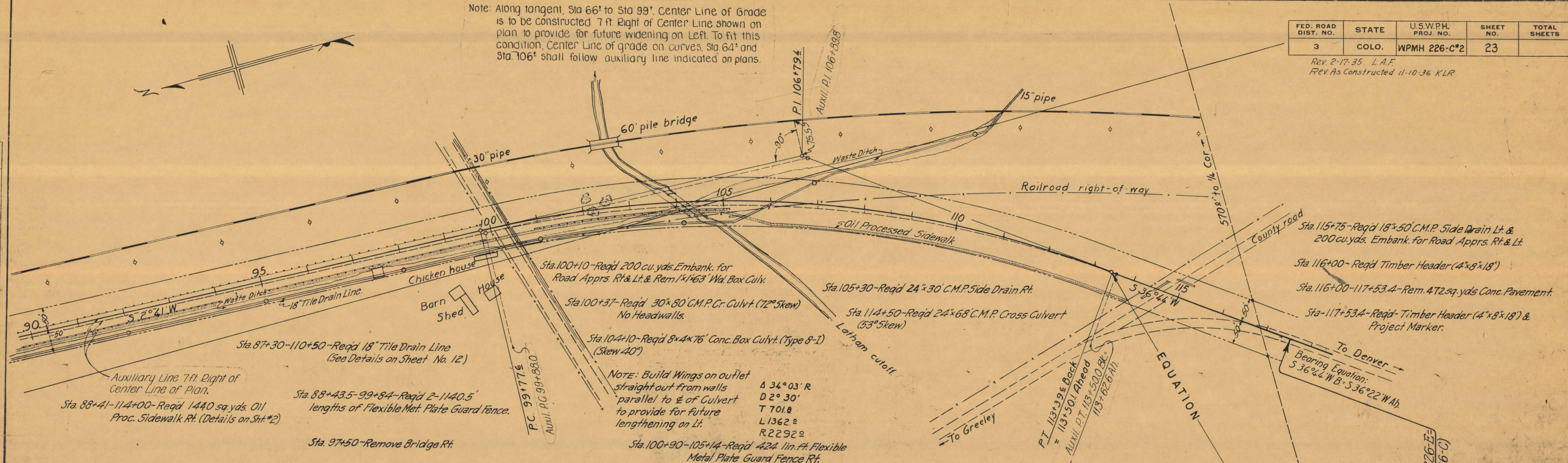
PLAN	DATE
BY	
DATE	
NOTED	
NOTE BOOK ALIGNMENT CHECKED	
NO. 5840	

PROFILE	DATE
BY	
DATE	
NOTED	
NOTE BOOK CALLS CHECKED	
NO. 5840	
STRUCTURE MEASUREMENTS CHKD.	

FED. ROAD DIST. NO.	STATE	U.S.W.P.H. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	WPMH 226-C*2	23	

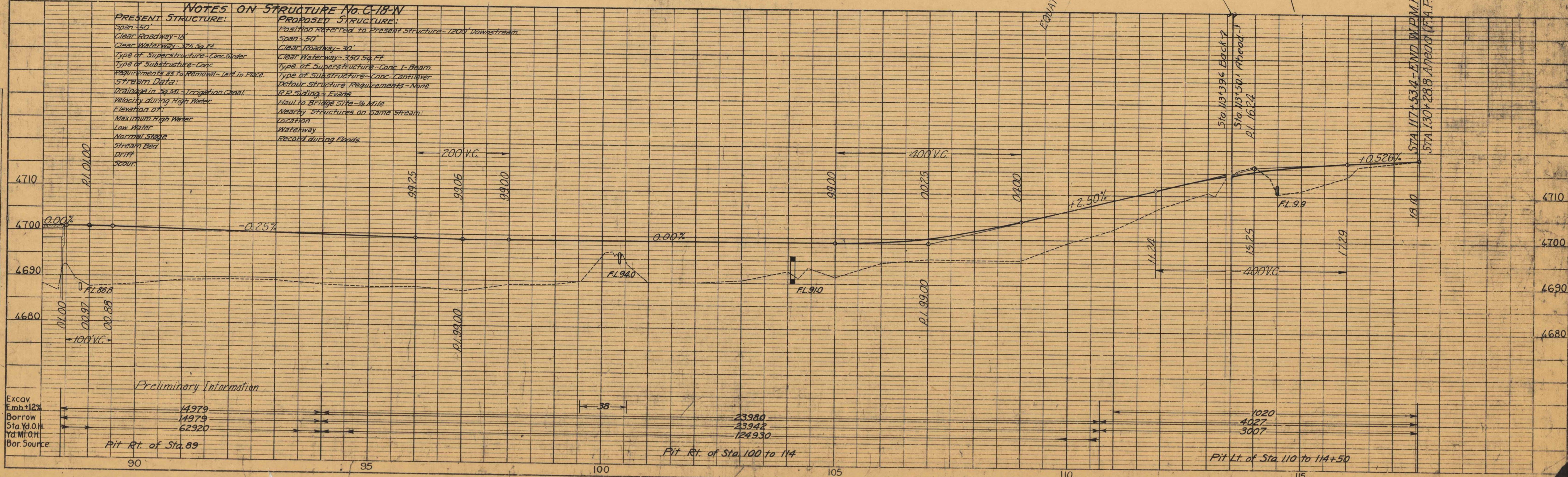
Rev. 2-17-35 L.A.F.
REV As Constructed 11-10-36 KLR

Note: Along tangent, Sta 66+ to Sta 99+ Center Line of Grade is to be constructed 7 ft Right of Center Line shown on plan to provide for future widening on Left. To fit this condition, Center Line of grade on curves, Sta 64+ and Sta 106+ shall follow auxiliary line indicated on plans.



NOTES ON STRUCTURE No. C-18-N

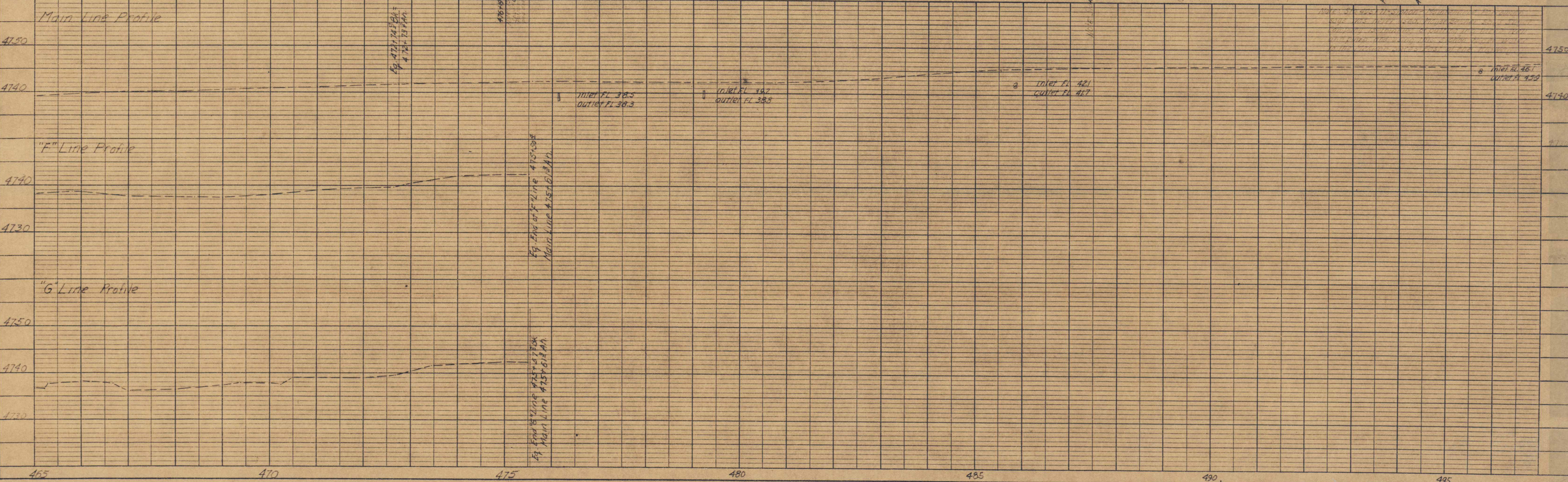
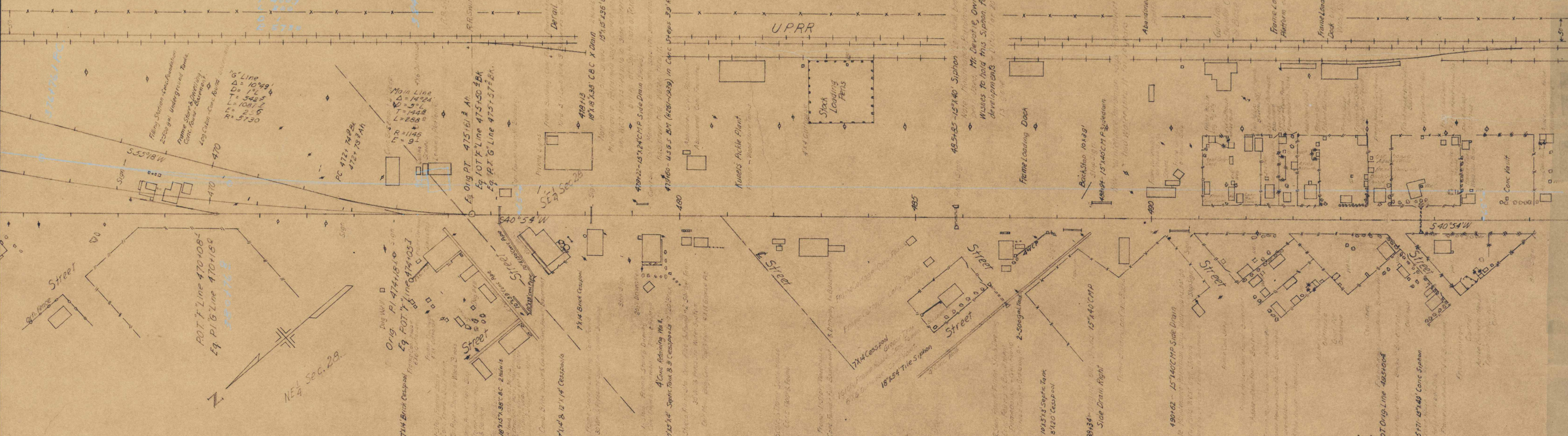
PRESENT STRUCTURE:	PROPOSED STRUCTURE:
Span - 50'	Position referred to Present Structure - 1200' Downstream
Clear Roadway - 18'	Span - 50'
Clear Waterway - 37.5 Sq. Ft.	Clear Roadway - 30'
Type of Superstructure - Conc. Girder	Clear Waterway - 350 Sq. Ft.
Type of Substructure - Conc.	Type of Superstructure - Conc. I-Beam
Requirements as to Removal - Left in Place	Type of Substructure - Conc. Cantilever
Stream Data:	Defour Structure Requirements - None
Drainage in Sq. Mi. - Irrigation Canal	R.R. Siding - Evans
Velocity during High Water	Haul to Bridge Site - 1/2 Mile
Elevation of:	Nearby Structures on Same Stream:
Maximum High Water	Location
Low Water	Waterway
Normal Stage	Record during Floods
Stream Bed	
Drift	
Scour	



PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED	CHAS. H. HARRIS	10-1-28
NO. 117	ALIGNED CHECKED		
8-2-28	WAY CHECKED		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED	CHAS. H. HARRIS	3-3-28
NO. 4	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

Note: Run on 2 ft Offset to Left
 Note: Sta 469+ - Borrow 0.3 mile East, South Side County Road. About 1 Acre pasture land East of Small Lake



FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	FAP 226-C	10	208

DATE	3-30-75
BY	CLIFF WILSON CW 3-30-75
SURVEYED	
PLOTTED	
GRADES CHECKED	
B. M.'S. NOTED	
STRUCTURE NOTATIONS CHANGED	
NO. 445	
PROFILE	

