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COLORADO
DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. F 013-1(4)
STATE HIGHWAY NO. 102
YUMA COUNTY

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 } 35,503.5 FT. = 6.724 MI.
NET LENGTH OF PROJECT }

CONVENTIONAL SIGNS

CENTER LINE _____ TITLE 8 SHEET

RIGHT OF WAY LINE _____

COUNTY LINE _____

TOWNSHIP OR RANGE LINE _____

LAND LINES _____

BARBED WIRE FENCE _____

COMBINATION WIRE FENCE _____

SNOW FENCE _____

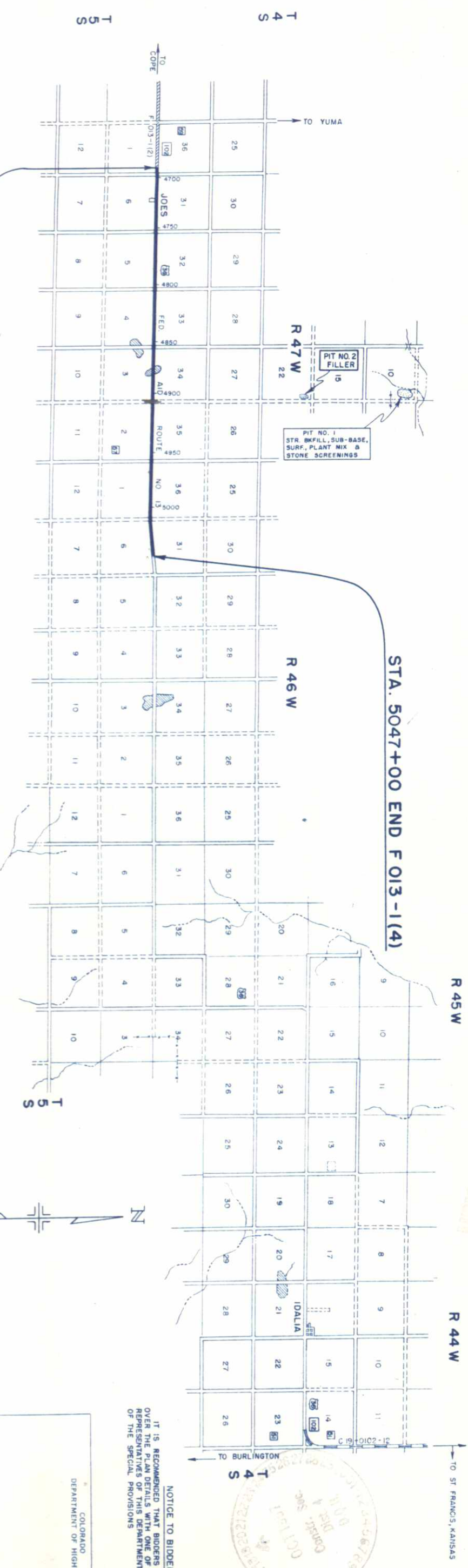
TELEPHONE & TELEGRAPH LINES _____

POWER LINE _____

PRESENT ROAD (From Sheets) _____

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 013-1(4)	1	

Rev. Index of Sheets, 10-11-57, D.H.H.



NOTICE TO BIDDERS

IT IS RECOMMENDED THAT BIDDERS ON THIS PROJECT GO OVER THE PLAN DETAILS WITH ONE OF THE FIELD REPRESENTATIVES OF THIS DEPARTMENT LISTED ON PAGE 10 OF THE SPECIAL PROVISIONS

APPROVED _____

CHIEF ENGINEER

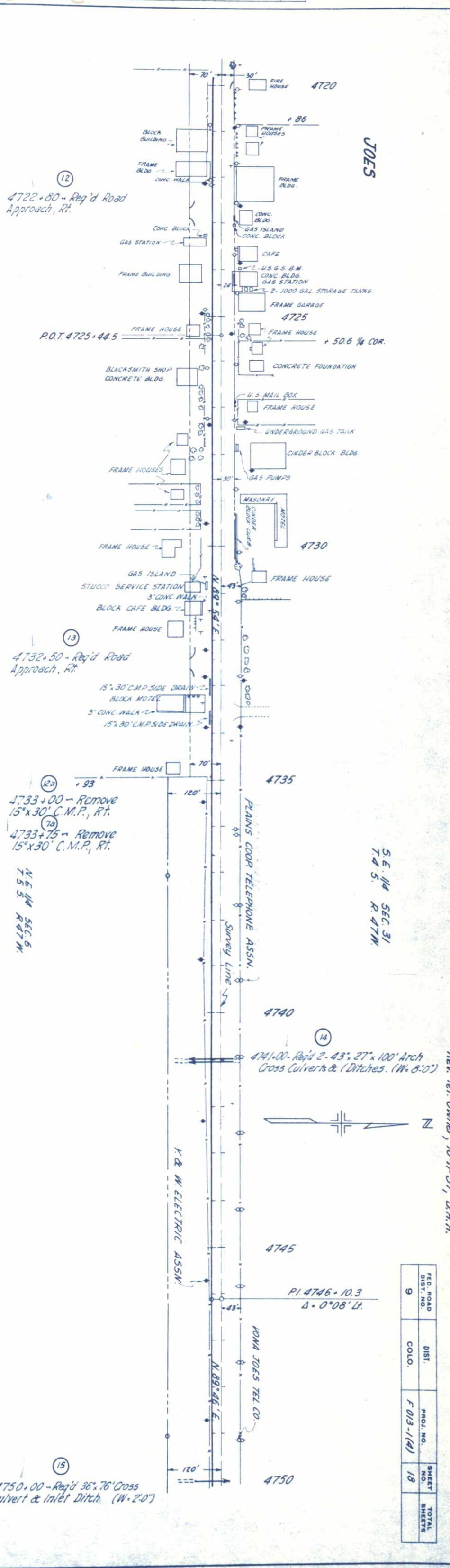
DATE 9-23-57

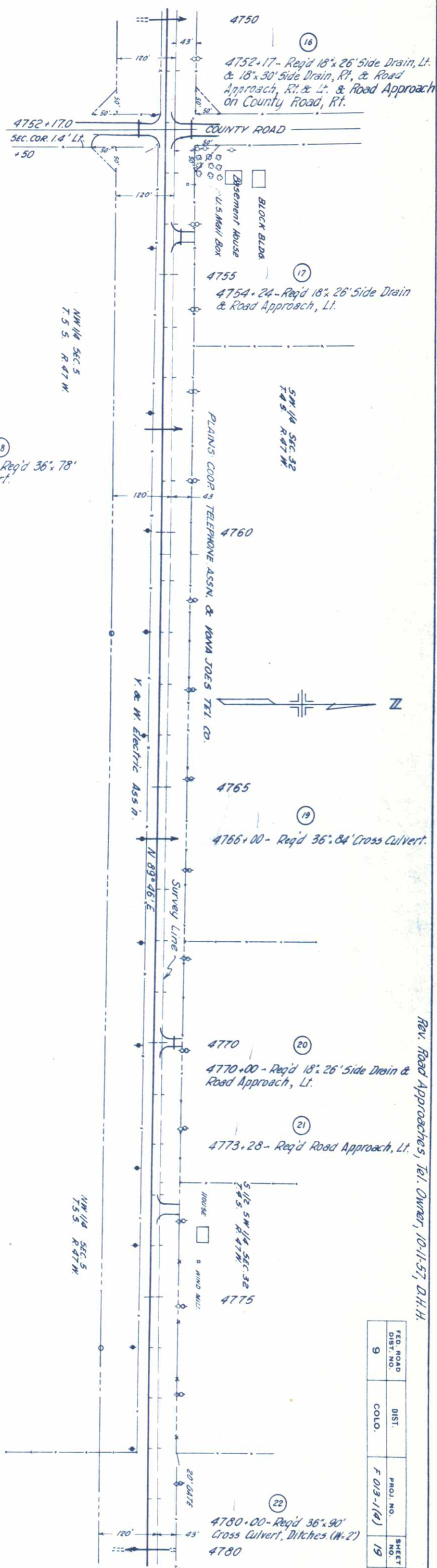
APPROVED _____

DIVISION ENGINEER

DATE _____

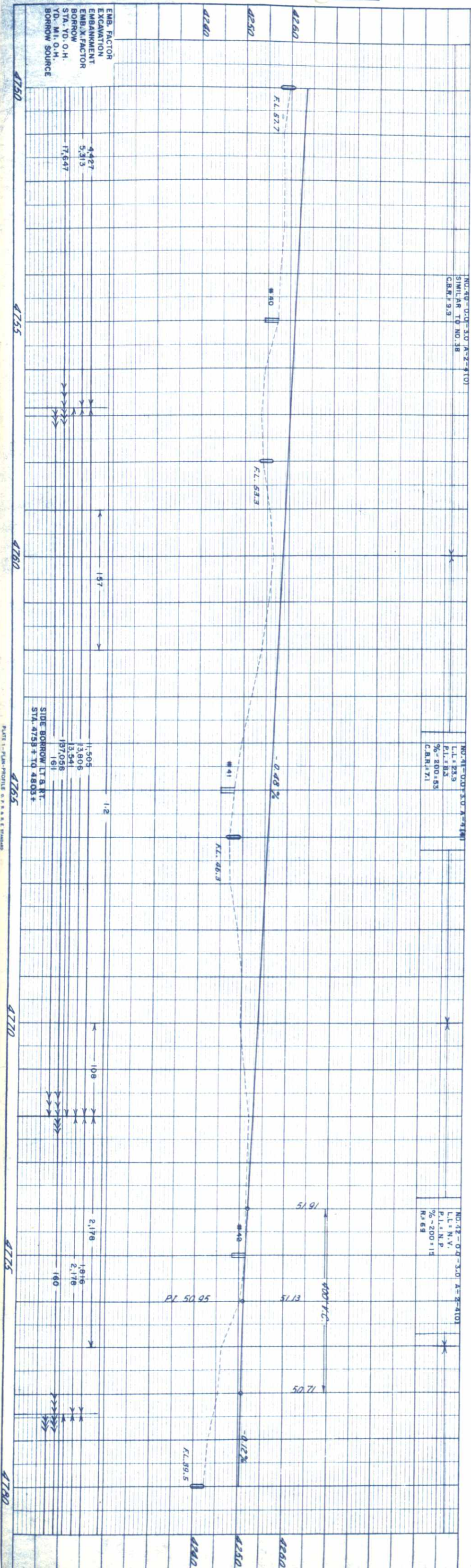
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS





Rev. Road Approaches, Tel. Owner, 10-11-57, D.H.H.

FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F 013-1(4)	19	





FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F 013-1(4)	20	

4805+57- Reg'd 18" 28' Side
Drain, Lt. & 18" 30' Side Drain, Rt.
& Road Approach, Rt. & Lt.



- 0.12%

F.L. 30.5

4250			
4240			
4230			

025		024		023
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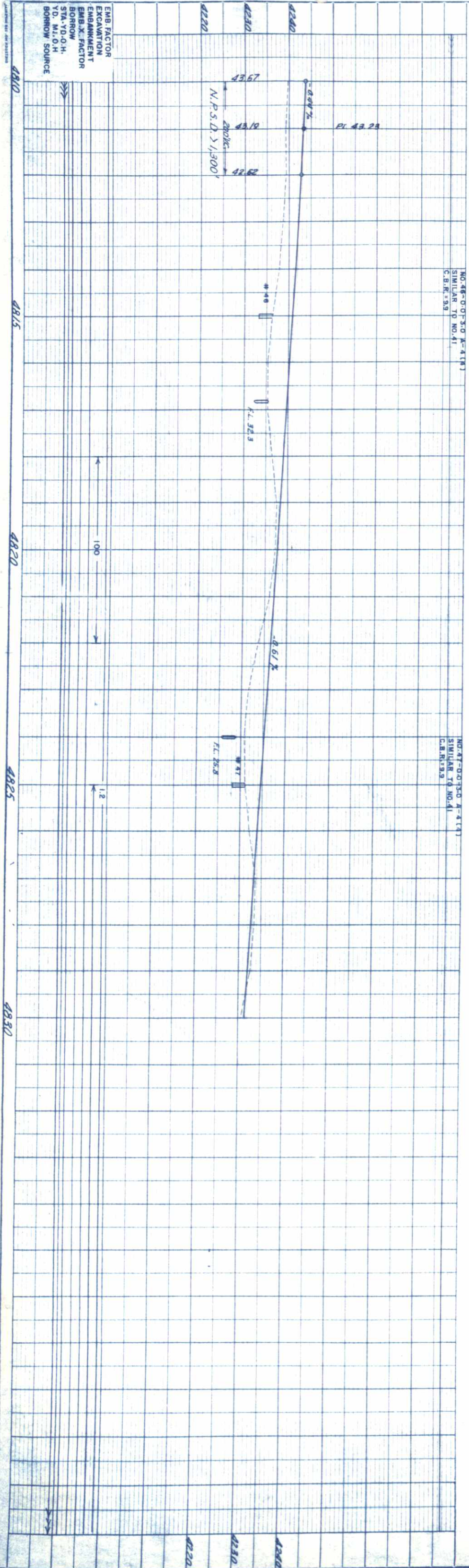
1.2

N.P.S.D. > 1,300

425	424	423
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EMB.FACTOR
EXCAVATION
EMBANKMENT
EMB.X.FACTOR
BORROW
STA.YD.O.H.
YD.MI.O.H.
BORROW SOURCE

17,775	
21,330	
21,303	
75,69	
113	



19A
4811+50 - Req'd 20' Road Approach, Lt.

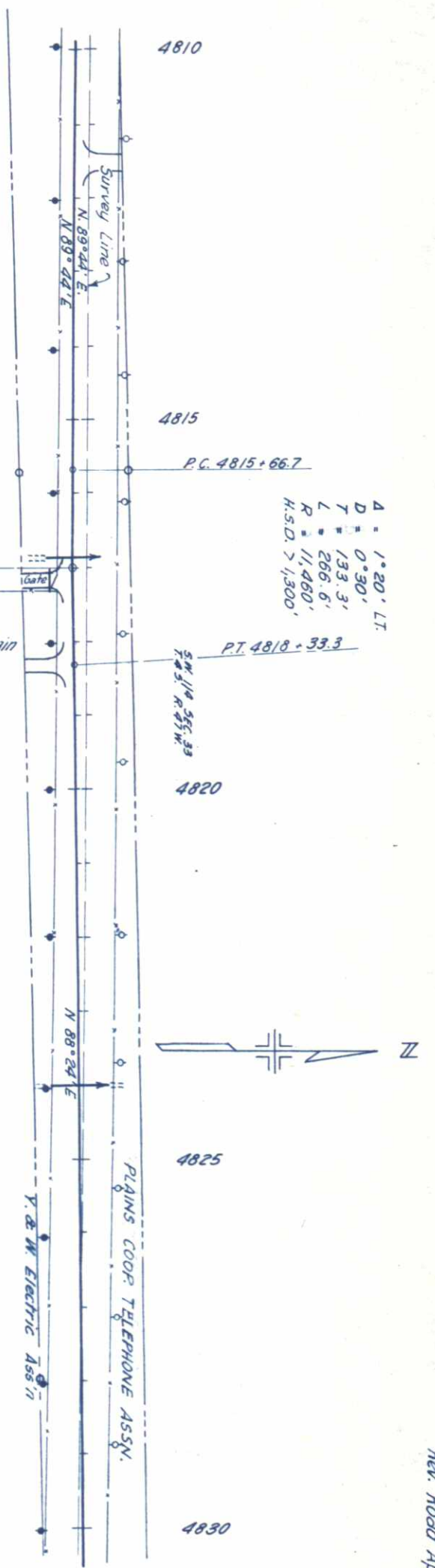
27
4816+85 - Req'd 36"x76' Cross Culvert, Inlet Ditch (W=2')

PI 4817+00

28
4817+19 - Req'd 18"x30' Side Drain & Road Approach, Rt.

28A
4818+30 - Req'd 20' Road Approach, Rt.

29
4824+00 - Req'd 36"x84' Cross Culvert, Ditches (W=2'-0")



Δ = 1°20' LT.
D = 0°30'
T = 133.3'
L = 266.6'
R = 11,460'
H.S.D. > 1,300'

FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F 013-1(4)	21	

Rev. Road Approaches, Tel. Owner, 10-11-57, D.H.H.

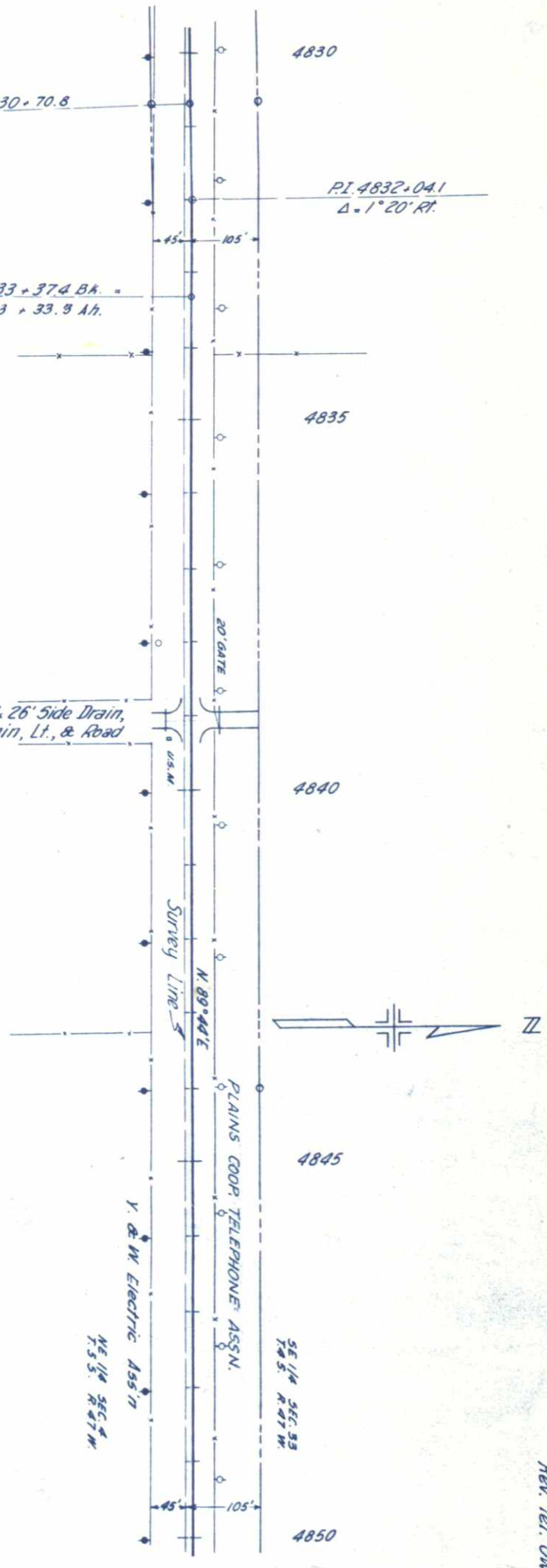
PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO. 8528	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO. 8531	GRADES CHECKED		
	8 ft. NOTED		
	STRUCTURE NOTATIONS ON RD		

$\Delta = 1^{\circ}20' \text{ Rt.}$
 $D = 0^{\circ}30'$
 $T = 133.3'$
 $L = 266.6'$
 $R = 11,460'$
 $H.S.D. > 1,300'$

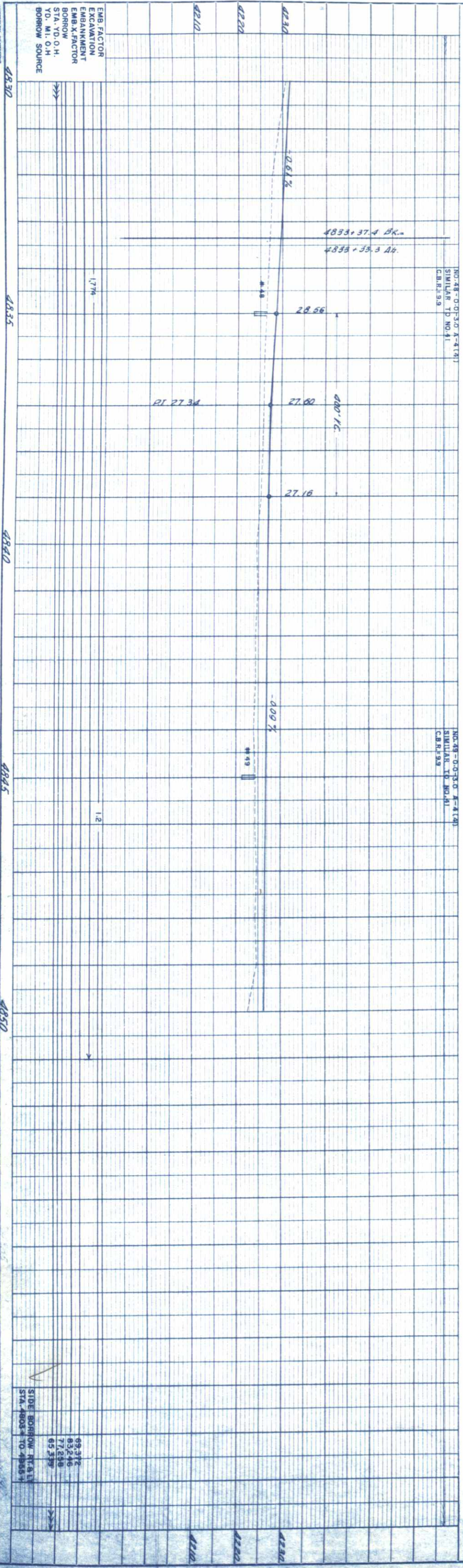
EQUATION $P.T. 4833 + 37.4 Bk. = 4833 + 33.9 Aft.$

4839+08 - Req'd 18" 26' Side Drain,
 Rt. & 18" 30' Side Drain, Lt., & Road
 Approach, Rt. & Lt.



Rev. Tel. Owner, 10-11-57, D.H.H.

REG. ROAD	DIST.	PROJ. NO.	SHEET	TOTAL
NO. 9	COLO.	F 013-1(4)	22	SHEETS



EMB. FACTOR
 EXCAVATION
 EMBANKMENT
 EMB. X. FACTOR
 BORROW
 STA. TO O.H.
 TO. MI. O.H.
 BORROW SOURCE

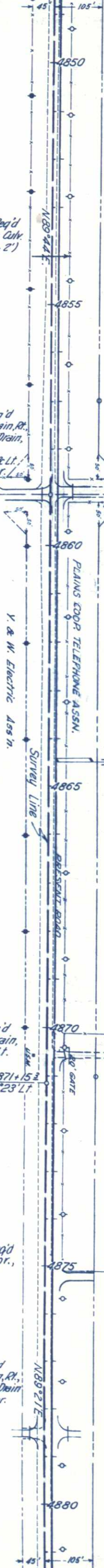
SIDE BORROW RT. ALT.
 STA. 4803+ TO 4805+
 63.312
 63.246
 77.558
 65.539

SE 1/4, Sec. 33, T.4S, R.47W.

SW 1/4, Sec. 34, T.4S, R.47W.

FED. ROAD DIST. NO.	STATE	COLO.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3			FOI3-1(4)	23	

Rev. Road Approaches, Tol. Owner, 10-11-57, D.H.H.



NE 1/4, Sec. 4, T.5S, R.47W.

NW 1/4, Sec. 3, T.5S, R.47W.

EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. X. FACTOR
BORROW
STA. VD. O.H.
VD. M.I. O.H.
BORROW SOURCE

SW 1/4, Sec. 34, T.4S, R.47W.

SE 1/4, Sec. 34, T.4S, R.47W.

NW 1/4, Sec. 3, T.5S, R.47W.

NE 1/4, Sec. 3, T.4S, R.47W.

NE 1/4, Sec. 3, T.4S, R.47W.

Ang. Point = 4910 + 263
 $\Delta = 0^{\circ}30' \text{ Lt.}$

4886 + 20 - Req'd
18' x 30' Side
Drain and Road
Approach, Lt.

4886 + 62 - Req'd
18' x 26' Side Drain &
Road Approach, Rt.

4883 + 40 - Req'd
20' Road Appr.,
Lt.

4892 + 00 - Req'd
36' x 84' Cross
Culvert & Outlet
Ditch (M=2')

4854 + 00 - Req'd
36' x 88' Cross Culv.
& Ditches (M=2')

4858 + 96 - Req'd
18' x 26' Side Drain, Rt.
& 18' x 30' Side Drain,
Lt., & Road
Approach, Rt. & Lt.
& 20' Road Appr.,
to Road, Rt.

4870 + 58 - Req'd
18' x 34' Side Drain,
& Road Appr., Lt.

Ang. Point = 4871 + 153
 $\Delta = 0^{\circ}23' \text{ Lt.}$

4875 + 20 - Req'd
20' Road Appr.,
Lt.

4878 + 50 - Req'd
18' x 26' Side Drain, Rt.,
& 18' x 30' Side Drain
Lt., & Road Appr.,
Rt. & Lt.

NO. 33-0-0-30 A-4(4)
SIMILAR TO NO. 41
C.B.R. 7.1

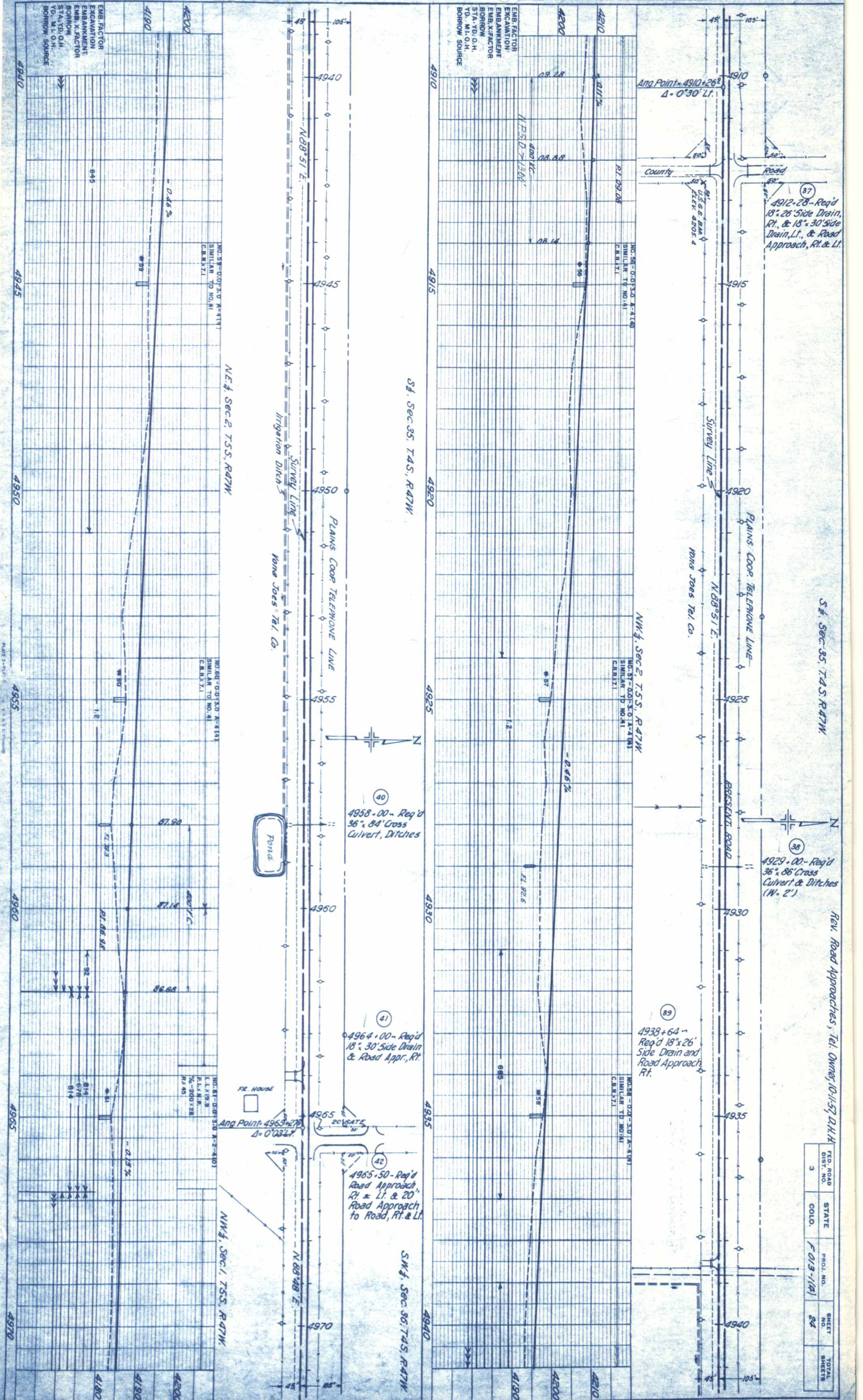
NO. 34-0-0-30 A-4(4)
SIMILAR TO NO. 41
C.B.R. 7.1

NO. 35-0-0-30 A-4(4)
SIMILAR TO NO. 41
C.B.R. 7.1

NO. 30-0-0-30 A-4(4)
SIMILAR TO NO. 41
C.B.R. 7.1

NO. 31-0-0-30 A-4(4)
SIMILAR TO NO. 41
C.B.R. 7.1

NO. 32-0-0-30 A-4(4)
SIMILAR TO NO. 41
C.B.R. 7.1



FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 013-1141	24	

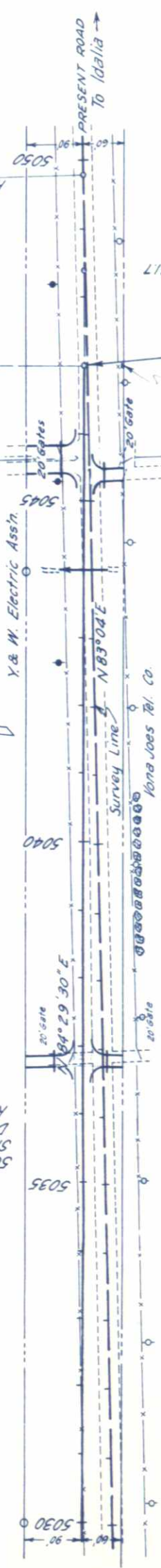
SW 1/4, Sec. 31, T. 4 S., R. 46 W.



5036+80 - Reg'd 18"x34" Side Drain Lt., 18"x26" Side Drain Rt., Road Approach Rt. & Lt.

5047+00 - Reg'd Approach to Project
5047+00 - Reg'd Project Marker Rt. (State Forces)

Approach to Project
 $\Delta = 1^\circ 25' 14''$
 $D = 0^\circ 30'$
 $T = 141.7'$
 $L = 283.3'$
 $R = 11,460'$
 $H.S.D. > 1,300'$



5044+00 - Reg'd 36"x76" Cross Culvert, Ditches (W=2')
5045+57 - Reg'd 18"x26" Side Drain & Road Approach Rt., 18"x50" Side Drain & Double Road Approach, Lt.

STA. 5047+00 END F 013-1(4)

NW 1/4, Sec. 6, T. 5 S., R. 46 W.

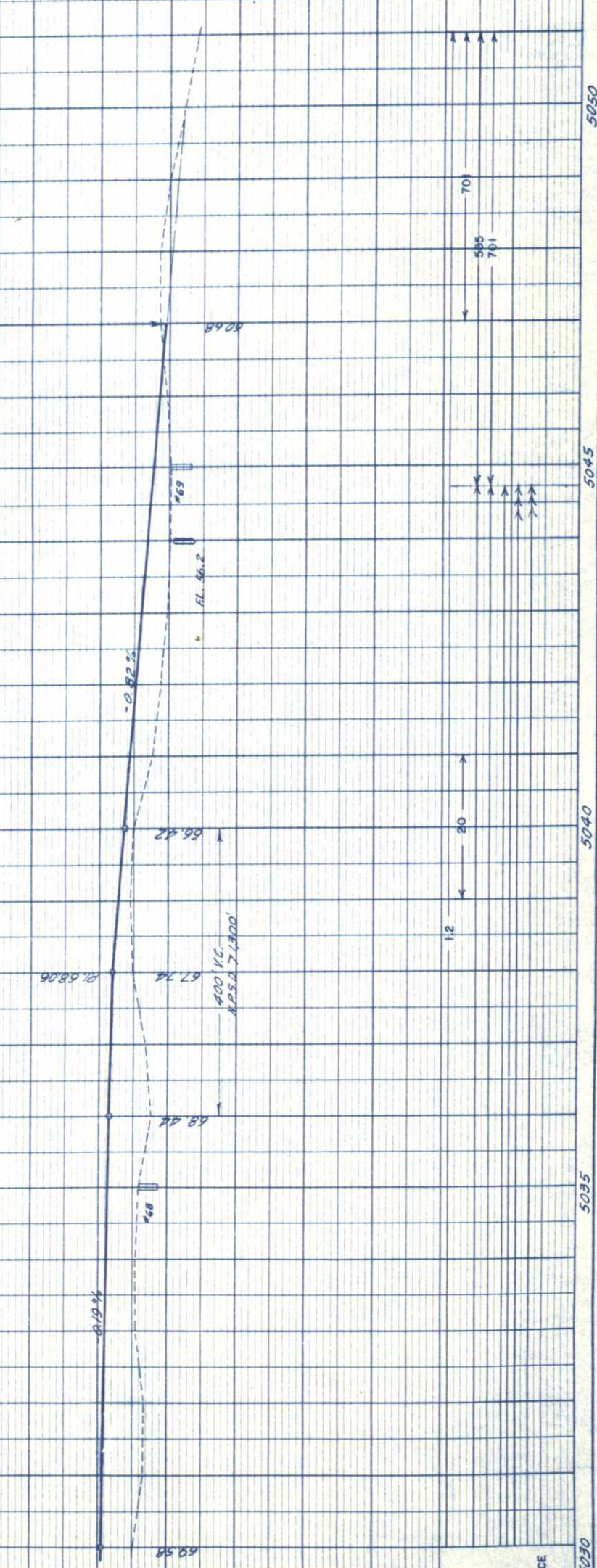
NO. 68 00' 30" A-2-4(2) SIMILAR TO NO. 61 R=45

NO. 69 00' 30" A-2-4(2) SIMILAR TO NO. 61 R=45

DATE	BY
SURVEYOR	
CHECKED	
NOTED	
STRUCTURE NOTATION CARD	
NO. 8532	
NOTE BOOK	

DATE	BY
SURVEYOR	
CHECKED	
NOTED	
STRUCTURE NOTATION CARD	
NO. 8528	
NOTE BOOK	

EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. X. FACTOR
BORROW
STA. YD. O.H.
YD. M.I. O.H.
BORROW SOURCE



5030

5035

5040

5045

5050