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CONSTRUCTION
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
SN FEDERAL AID PROJECT NO. F.A.P. 44-A (I)
STATE HIGHWAY NO. 185
LARIMER & WELD COUNTIES

SCALES OF 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 28,780.2 FT. = 5.445 MI.
NET LENGTH OF PROJECT 1,712.0 FT. = 0.324 MI.
APPROACHES

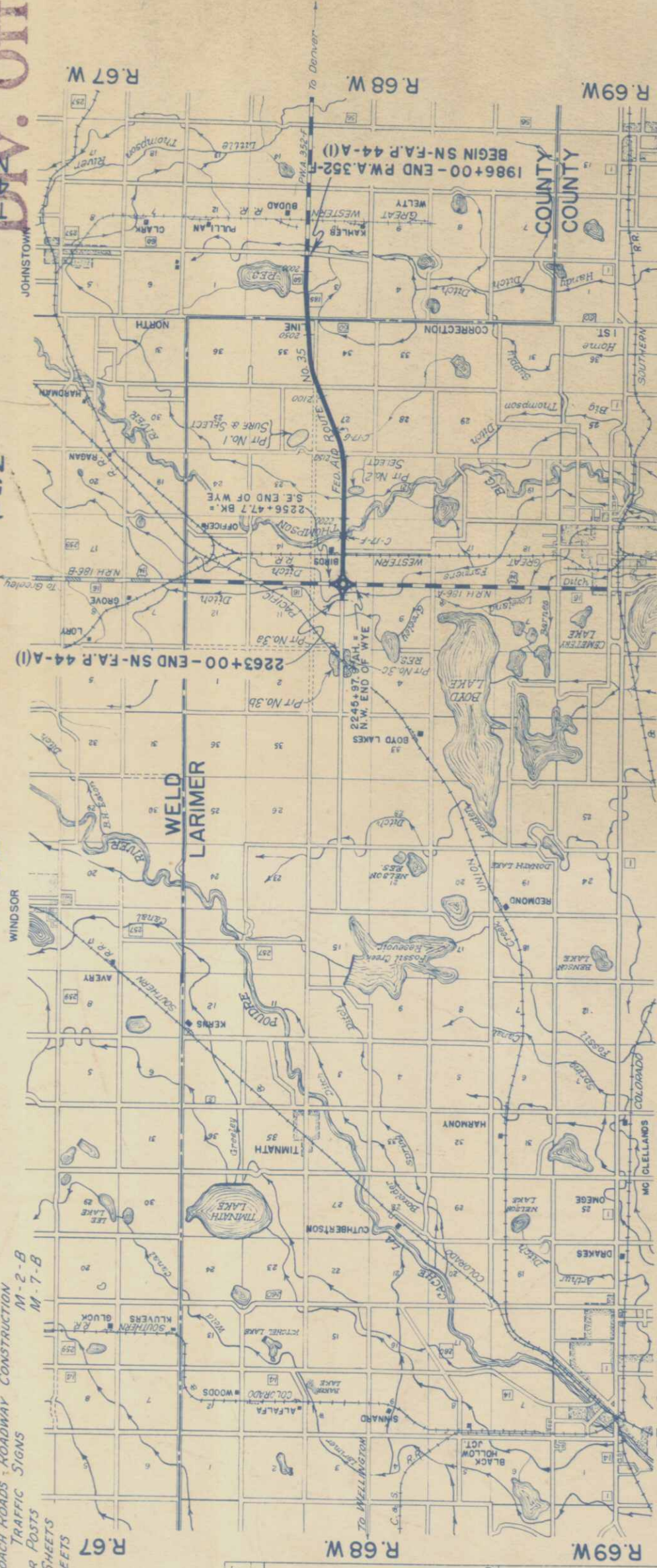
NOTE: It is recommended that bidders on this Project go over the plan details with one of the following field representatives of this Department.
R.J. Randall
Division Engineer
H.J. Winter
Resident

CONVENTIONAL SIGNS

CENTER LINE
RIGHT OF WAY LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER SECTION LINE
BARBED WIRE FENCE
COMBINATION WIRE FENCE
TELEPHONE LINE

1" = 6" N

1" = 6" N



LENGTH OF PROJECT

STATIONS	ROADWAY BRIDGES	LINE FT.	LINE FT.
1986+00 - END OF P.W.A. 352-F		2874.3	
2014+74.3 BK. EQUATION		10778.2	95.8
2122+32.1 BRIDGE END		9291.1	121.0
2123+47.9 BRIDGE END		3687.7	
2216+39.0 BRIDGE END		1702.1	
2217+60.0 BRIDGE END		28533.4	216.8
2256+47.7 BK. SE END OF WYE		5404 MI. (0.041 MI.)	
2245+97.9 BK. NW END OF WYE			
2263+00 END SN-F.A.P. 44-A (I)			
TOTALS PROJECT PROPER			
APPROACHES			
S.W. LEG OF WYE		887.0	
2246+60.0 12' from E. of S.H. 185			
2255+47.7 11' from E. of S.H. 185			
N.E. LEG OF WYE		825.0	
2247+30.0 11' from E. of S.H. 185			
2255+63.0 12' from E. of S.H. 185			
TOTALS APPROACHES		1712.0	
		(0.324 MI.)	

SCALE OF MILES

FT. COLLINS

LOVELAND

BERTHOUD

JOHNSTOWN

WELD

LARIMER

WINDSOR

TO DENVER

TO WELLSFORD

TO ALFALFA

TO SOUTHERN

TO KENTON

TO AVERY

TO LORRY

TO GROVE

TO NORTH

TO BUDAD

TO WESTERN

TO GREAT

TO WELTY

TO KAHLEB

TO PULLMAN

TO CLARK

TO THOMPSON

TO LITTLE

TO R. 67 W.

TO R. 68 W.

TO R. 69 W.

TO CORRECTION

TO HOME

TO BIG

TO THOMPSON

TO SOUTHERN

TO CENTURY

TO BOYD

TO BOYD LAKES

TO PIT NO. 30

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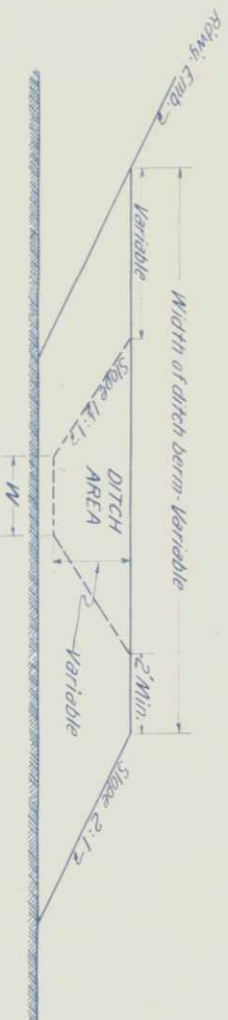
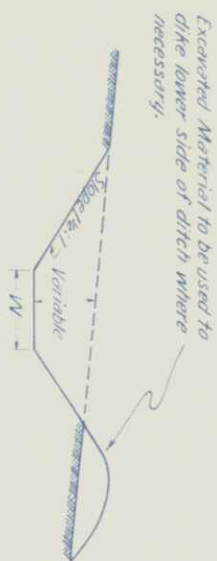
TO PIT NO. 239

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TO PIT NO. 242

TYPICAL SECTIONS OF DITCH CHANGES
FOR ENTIRE PROJECT

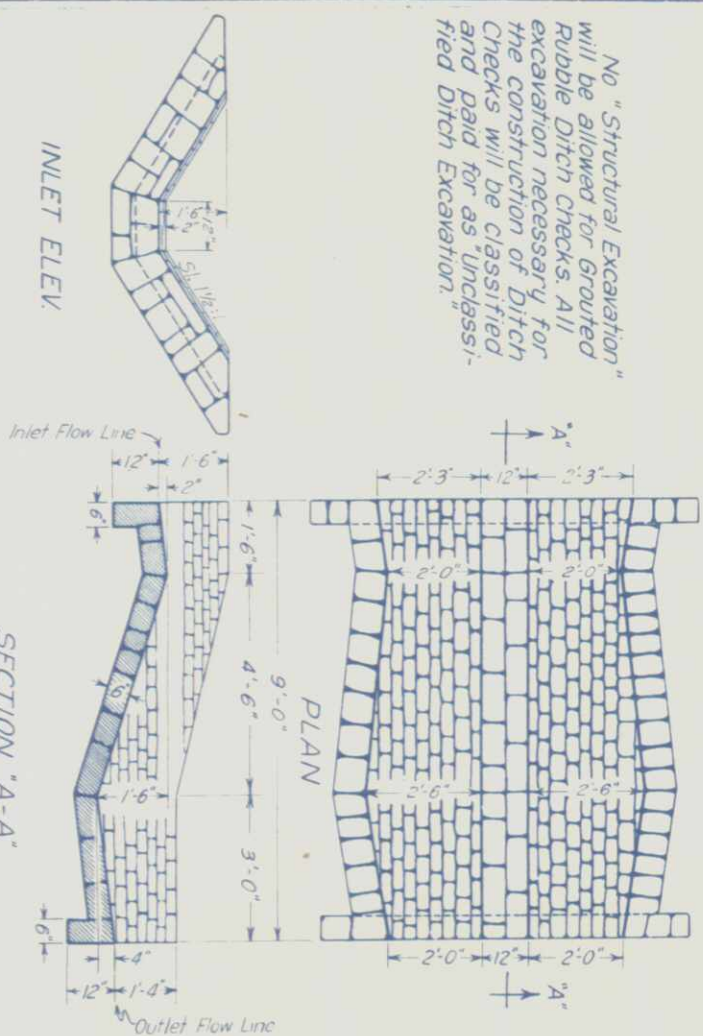


DETAIL FOR GROUTED RUBBLE DITCH CHECKS
RT. OF STA. 1990+ TO STA. 2003+

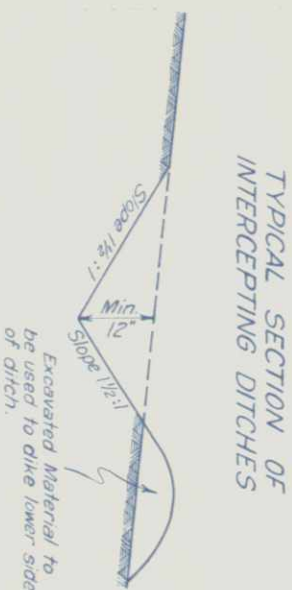
Embankment to be placed to the top and over the full width of the ditch berm. After the embankment is thoroughly compacted, the material within the "Ditch Area" is to be excavated. Excav is to be paid for as "Unclassified Ditch Excavation".



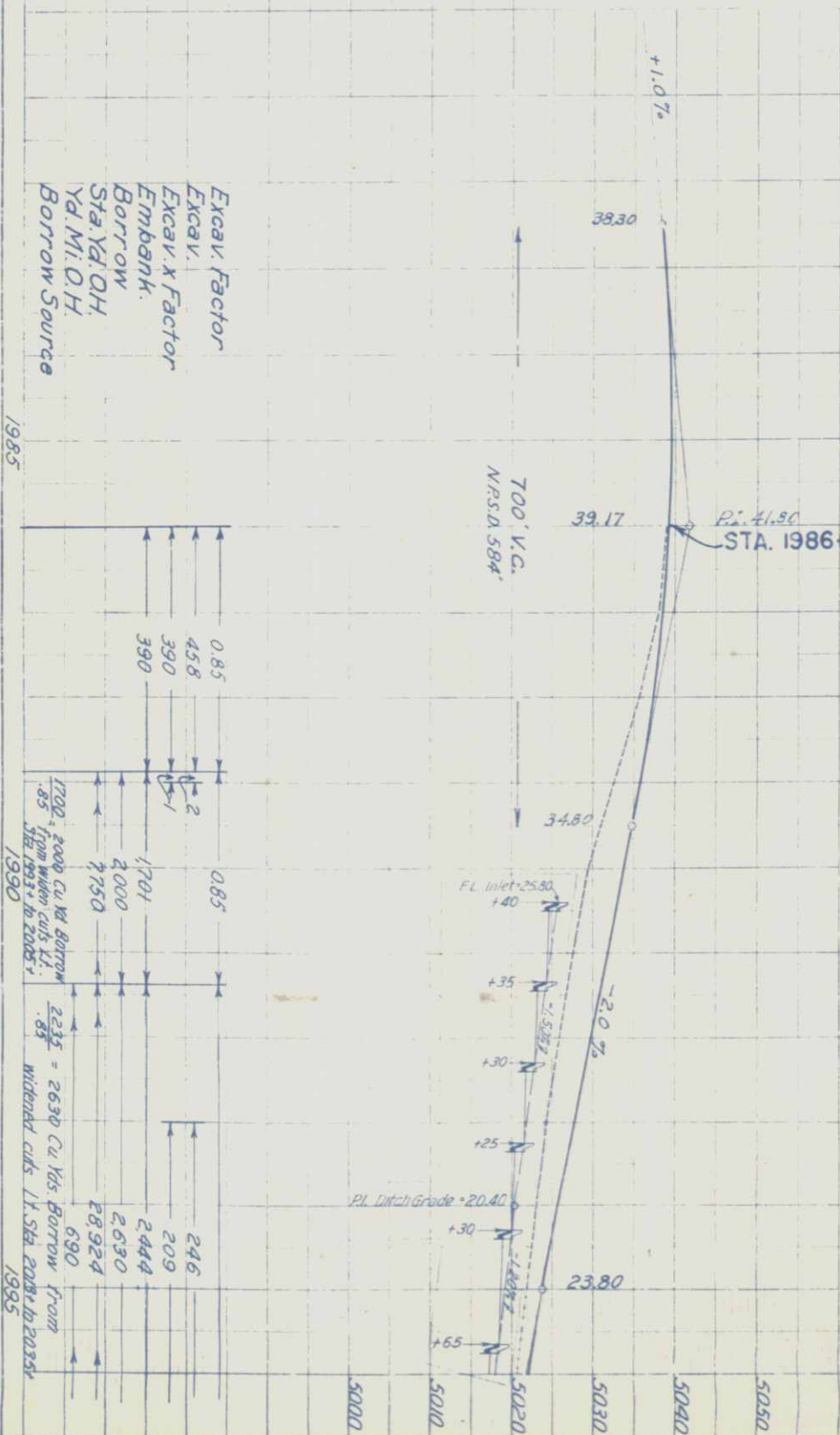
No "Structural Excavation will be allowed for Grouted Rubble Ditch Checks. All excavation necessary for the construction of Ditch Checks will be classified and paid for as "unclassified Ditch Excavation."



6.4 Sq. Yds. Grouted Rubble Slope & Ditch Paving required for one Check



TYPICAL SECTION OF
INTERCEPTING DITCHES



1986+ to 1990+67 ~ Reg'd. 90 Cu. Yds.
Excav. & 140 Cu. Yds. Emb. for
Acceleration Lane on Rt. (Included
for payment in Profile Quantities)

1986+00 ~ Req'd 40 cu. yds.
Excav. for Approach to Project.

$$\Delta = 0^{\circ} 08' 17''$$

1986+00 - Req'd Project
Marker

1986+00 to 1986+85 - Req'd
10 cu. yds. Excav. for Irrig.
Ditch Change on Rt.
(W=1') New Location for frame Garage

1986+90 - Rem. 6'x2'-6"
Wood Foot Bridge on Rt.

Req'd 18" x 10' C.M.P. Side
Drain & 10 cu. yds. Emb.
for Walk Approach on Rt.

1987+90 - Move Frame
Garage from R.O.W. on Rt

1988+37 - Req'd 18"x28'
C.M.P. Side Drain @ 25
cu. yds. Embank. for Road
Approach on Rt.

1988+80 - Move Shed
from R.O.W. on Rt.

1990+20 to 2004+25 - Req'd
160 cu. yds. Excav. for Irrig.
Ditch Change on Rt. (W=1')

1990+40 to 2003+78 ~ Req'd
15 Grouted Rubble Ditch
Checks in Irrig. Ditch Change
on Rt. (See Detail on Lt. Side
of Sheet. Also see profile
for Location.)

1986+00 to 1987+20 - Req'd 10 cu. yds.
Excav. for Irrigation Ditch Change on
Lft. (W=1')

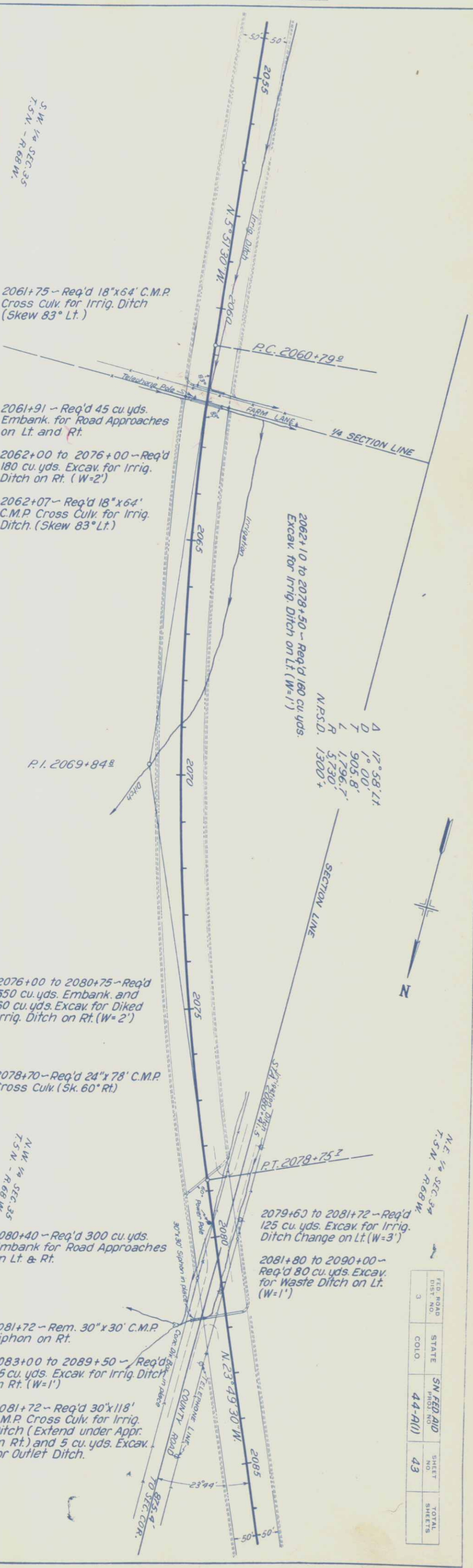
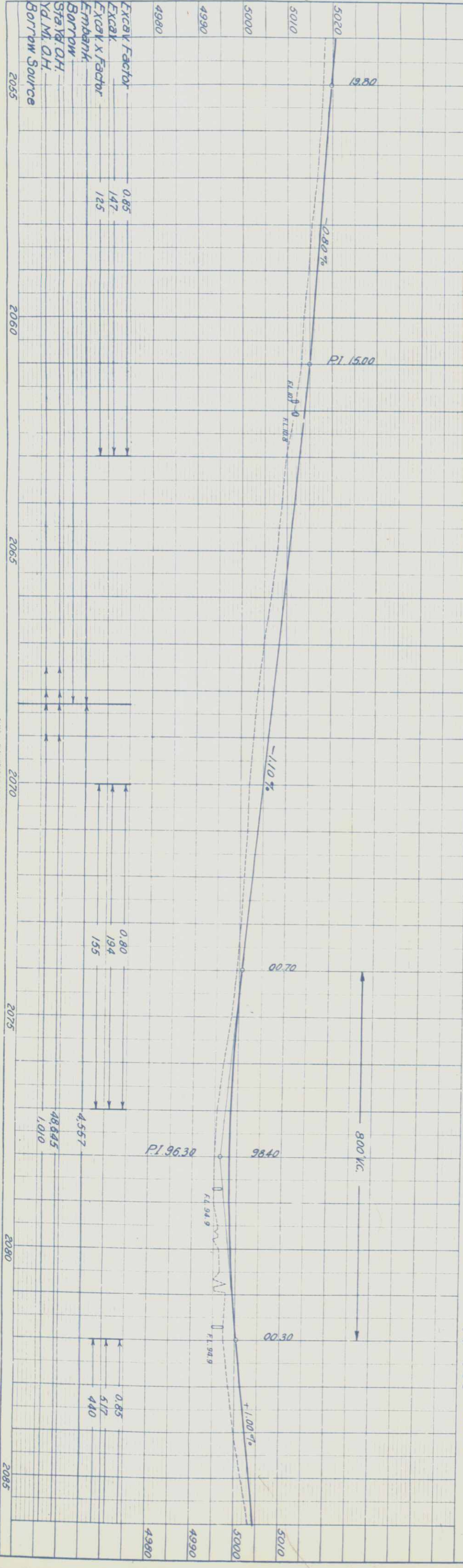
1988+40 to 1990+30 ~ Req'd 15 cu. yds.
Excav. for Irrigation Ditch Change on
Lt. (W=1')

S.E. 1/4 SEC. 3
T.4 N., R.68 W.

1992+85 ~ Req'd 18" x 26'
C.M.P. Side Drain & 30 cu.
yds. Embank. for Road
Approach on Lt.

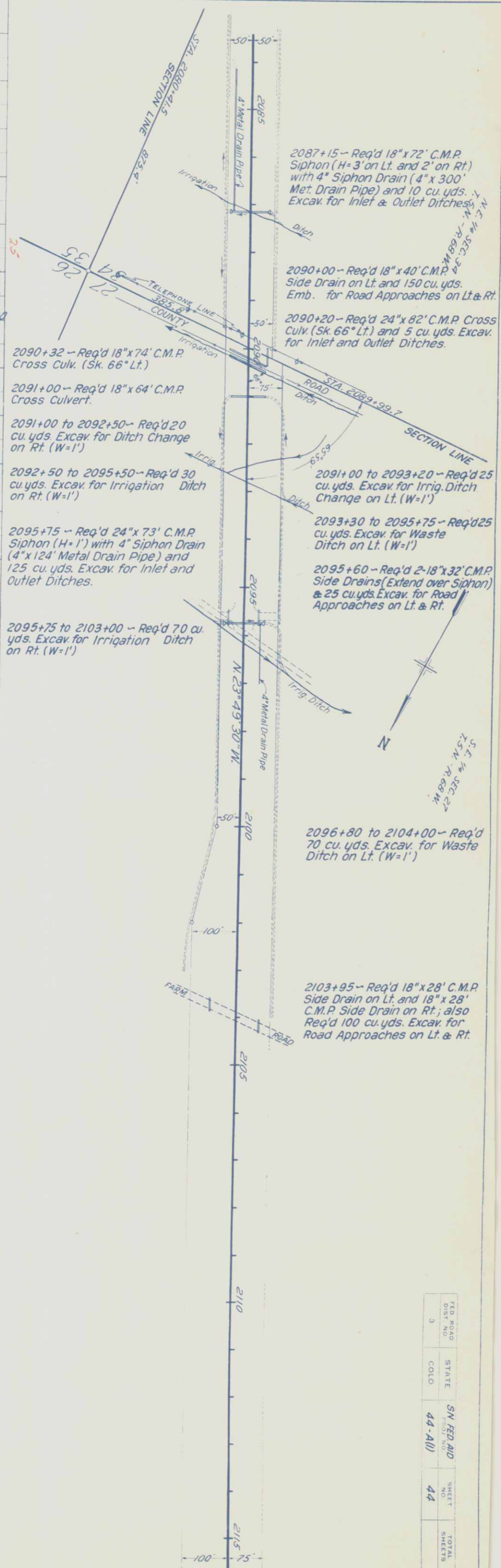
FEDERAL DIST NO	STATE	SN-FED AID FUND NO	SHEET NO	TOTAL SHEETS
3	COLO	44-411	40	

of ditch checks:



FED. ROAD DIST. NO.	STATE	SN. FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	44-A(1)	43	

PLAN		BY	DATE
NOT	SURVEYED		
0	PLOTTED		
	ALIGNMENT CHECKED		
	RT OF WAY CHECKED		



FED ROAD DIST NO	STATE	SN FED AID PROJ NO	SHEET NO	TOTAL SHEETS
3	COLORADO	44-A(1)	44	

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	P. 1, 10, 11		
NO.	GRADES CHECKED		
	B. M. 3 NOTED		
	STRUCTURE NOTATIONS CHKD.		



2128+50 to 2139+00 ~ Req'd 100 cu.
yds. Excav. for Waste Ditch
on Lt. (W=1')

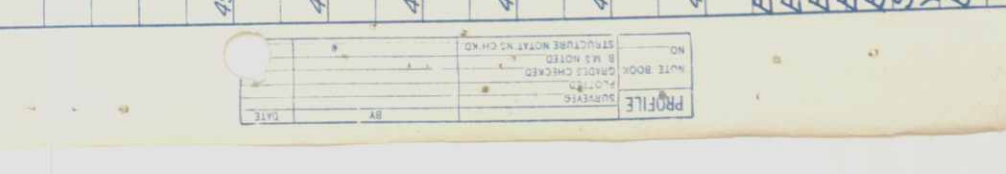
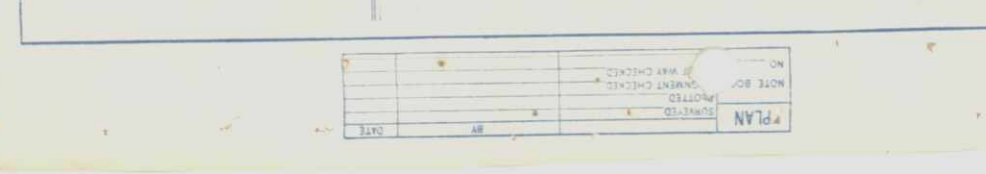


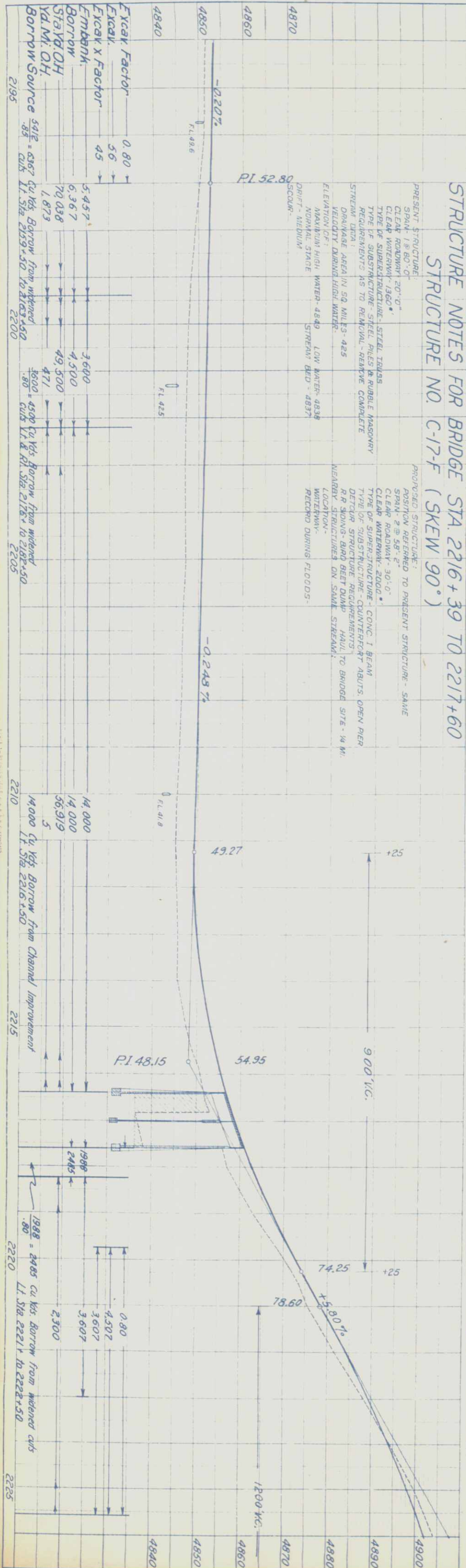
FEED HOAD DIST. NO.	STATE	S N FEED AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLORADO	44-A(1)	45	



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STRUCTURE NO.	NOTES FOR BRIDGE STA. 2216+39 TO 2217+60
C-17-F (SKEW 90°)	

2195+75 ~ Req'd 18"x64' C.M.P.
Cross Culv. (Sk. 75° Rt.) and 5
cu. yds. Excav. for Inlet & Outlet
Ditches.

2195+87 ~ Remove 15"x58' V.C.P.

2195+95 ~ Remove Conc. Div. Box
on Rt.; Req'd Conc. Div. Box on Lt.
(See detail on Sheet No. 27)

2198+81 ~ Remove & Rebuild Conc.
Cistern on Rt. (Force Account)

2199+00 ~ Req'd
100 cu. yds. Embank. for
Road Approach on Rt.

2199+10 ~ Move Frame House
from R.O.W. on Rt.

2196+00 ~ Req'd 10 cu. yds. Embank.
for Road Approach on Lt.

2199+35 ~ Req'd 18"x26' C.M.P. Side
Drain and 70 cu. yds. Embank. for
Road Approach on Lt.

2199+42 ~ Remove 12"x28' C.M.P. on Lt.
12"x28' C.M.P. Side Drain
P.I. 2199+95.4
 Δ 00° 03' Rt.
15"x35' C.M.P. Culv. in place

2200+40 ~ Remove 15"x38' C.M.P.

2201+30 ~ Req'd 36"x98' C.M.P.
Cross Culv., and 40 cu. yds. Excav.
for Inlet & Outlet Ditches.

2200+70 ~ Req'd 130 cu.
yds. Embank. for Road
Approach on Rt.

S.E. 1/4 SEC. 15
T.5N. - R.68W.

2207+70 ~ Req'd 18"x24'
C.M.P. Side Drain on Lt., and
200 cu. yds. Embank. for
Road Approaches on Lt. & Rt.

2210+00 ~ Req'd 24"x92' C.M.P. Cross
Culv. and 100 cu. yds. Excav. for Outlet
Ditch.

2215+45 ~ Req'd 2-12"x10' C.M.P.
for Extension on each end of
present Side Drain and 400
cu. yds. Embank. for Road Appr.
on Rt. ~ Rem. 25 sq. yds. of
Flagstone Ditch Paving on Rt.
(Remove only the portions of
Ditch Paving lying within the
limits of the C.M.P. extensions.)

2216+39 to 2217+60 ~ Req'd
Bridge as per detail on Sheets
No. 14 to 18 incl.
Remove Present Bridge ~ Req'd
14,000 cu. yds. Excav. for Channel
Improvement (Included for Pay-
ment in Profile Quantities.)

2219+73 to 2225+76 ~ Remove
350 sq. yds. Flagstone Ditch
Paving on Lt.

2220+82 to 2222+10 ~ Remove
80 sq. yds. Flagstone Ditch
Paving on Rt.

2221+90 ~ Req'd 18"x28' C.M.P.
Side Drain and 15 cu. yds. Embank.
for Road Approach on Rt.

2223+90 ~ Req'd 18"x10' C.M.P.
Side Drain and 5 cu. yds. Exc.
for Walk Approach on Rt.

THOMPSON
BIG
RIVER

Mail Box

Rev 7-11-41-JWS ~ Rem. Street Note Sta. 2220

F.D. ROAD DIST. NO.	STATE	SN FIELD NO.	TOTAL SHEETS
3	COLO.	44-A(1)	48

FED ROAD DIST. NO.	STATE	SN FED-AID PROJ. NO.	DATE IN	TOTAL SHEETS
3	COLO.	44-A(1)	48	

REV 7-11-41 - TWS - Rem. Str. Note Sta 2020

S.W. 1/4 SEC 10
T5N. R. 68W.

N.W. 1/4 SEC. 15
T. 5 N. - R. 68 W.

NOTE: Grade Crossing Signals, Sta. 2226+, are to be installed under a separate project.

2226+00 ~ Reg'd 18"x40' C.M.P.
Side Drain and 300 cu. yds.
Excav for Road Approach on Lt.

150'

Flagstone Ditch Paying in place

12"x18' C.I.P. to remain in place

Shed

Scale

Sta. 2226+28

RAILROAD STA. 121+32.5 (1572.5' West of MP 21)

Highway Sta. 2226+83.5

11.5' x 16' Wood Box Side Drain

2227+30 ~ Move Frame House from Right of Way on Lt.

2227+70 ~ Reg'd 18"x28' C.M.P. Side Drain and 50 cu. yds. Excav. for Road Approach on Lt.

2227+70 ~ Remove 1'x1.5'x16' Wood Box Side Drain on Lt.

2231+00 ~ Reg'd 24"x70' C.M.P. Cross Culv. & 10 cu yds. Embank for Dike on Lt.

2231+00 to 2239+80 ~ Reg'd 80 cu yds. Excav. for Waste Ditch on Lt. (W=1')

2225+70 to 2226+60 - Req'd 250 cu. yds. Excav. for Road Approach on Rt.

22267+00 - Remove 18" x 28" C.M.P. Reg'd 24" x 64" C.M.P. cross culv. and 20 cu. yds. Excav. for inlet & outlet ditches.

2250+98 SE CORNER - Reg'd
200 cu yds. Excav for Irrigation
Ditch change on Rt. (W=1).

2239+76 ~ Remove 1'x1'x16' Wood
Box Side Drain on Rt.
Gate
1'x1'x16' Wood Box Side Drain

2245+00 ~ Reg'd 24"x88" C.M.P.
cross culv. (skew 60° L.) and
0 cu. yds. Excav. for Inlet and
Inlet Ditches.

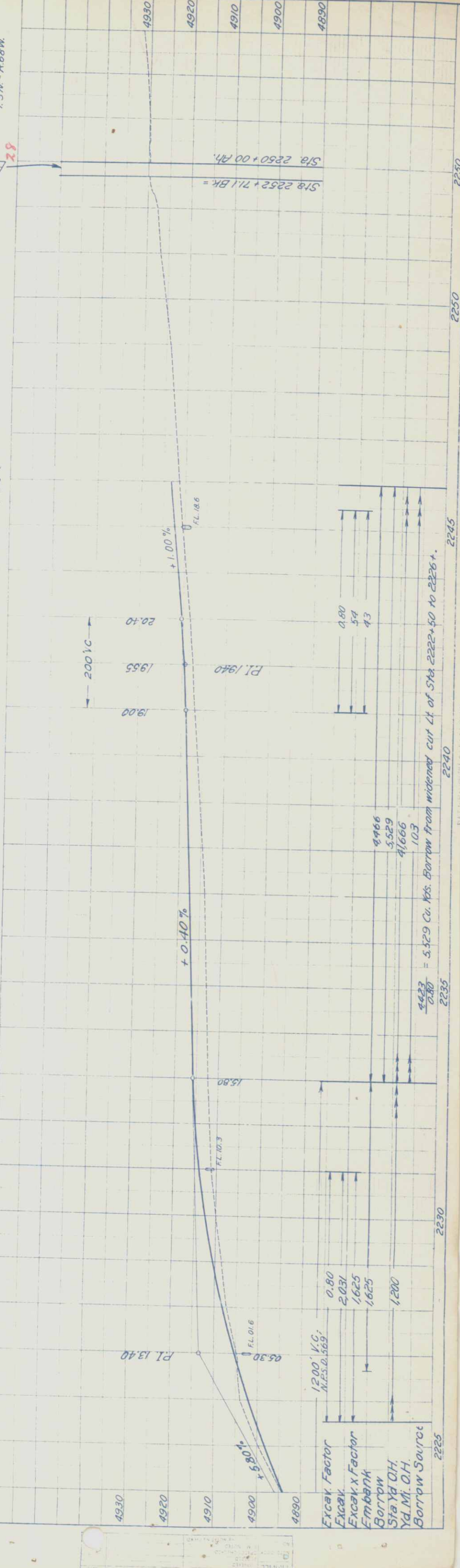
side Drains in irrigation ditches
43+00 - Reg'd 2'-18 x 20 C.M.P.
and 50 cu. yds. Embank. for Road
approaches on Lt. & Rt.

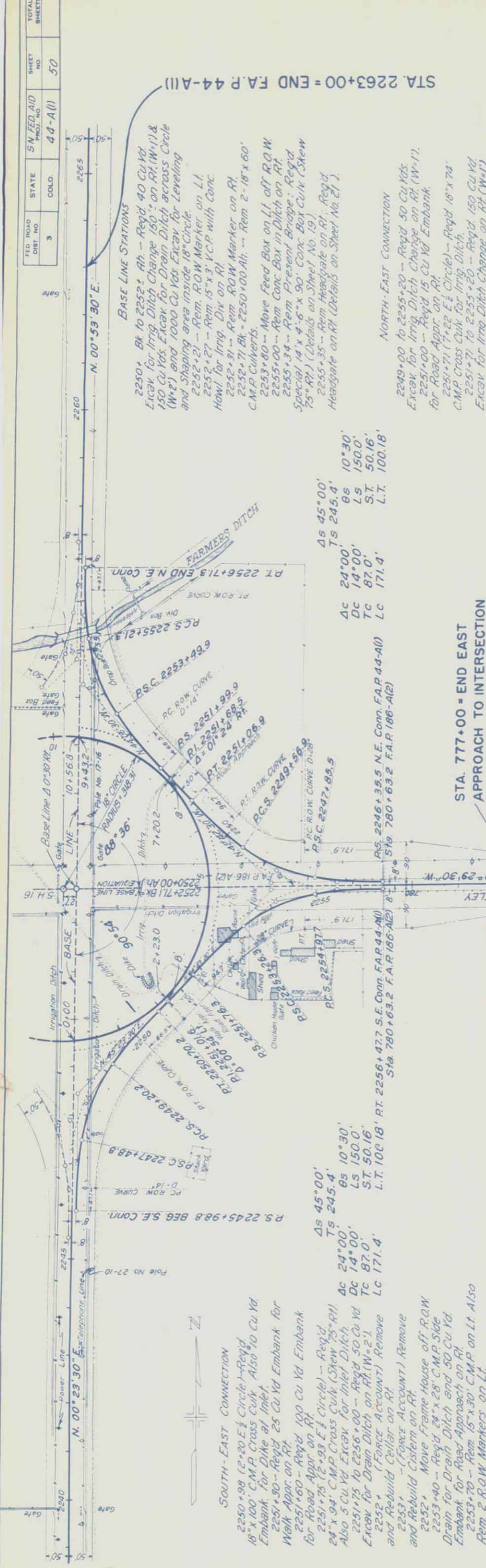
S.E. 1/4 SEC. 10

N.E. 1/4 SEC 15
T.5 N. - R.68 W.

- EQUATION -

EQ 2250+100 Δ 0° 30' Rt.



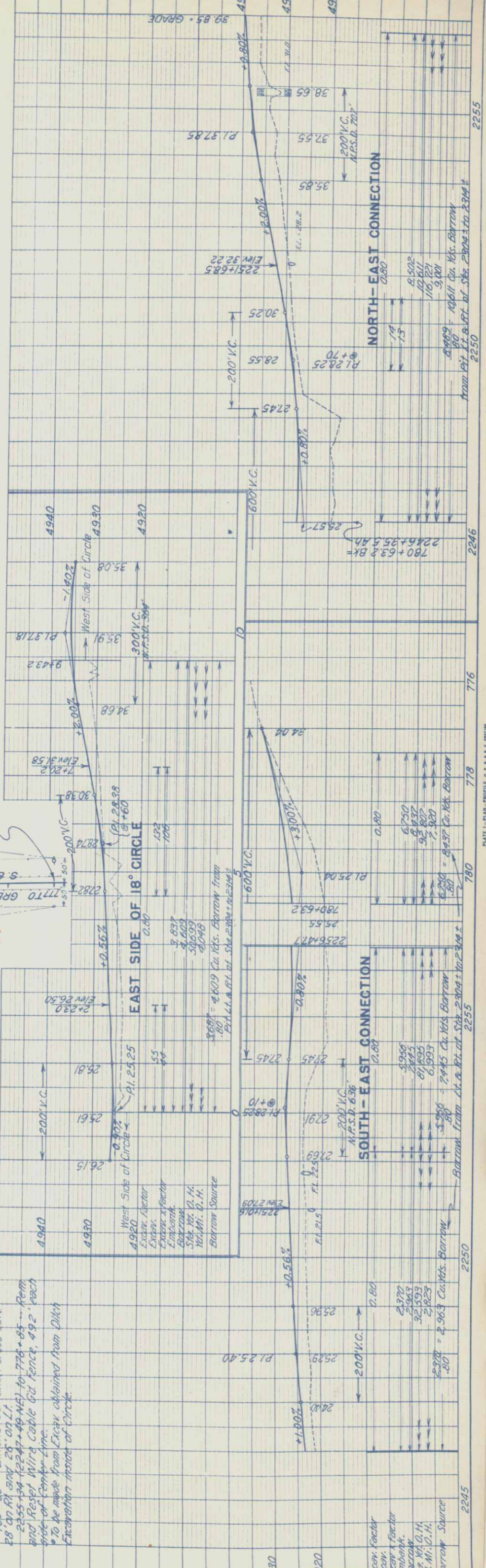


BASE LINE STATIONS
2250+ Bk to 2252+ Ah. - Reg'd 40 Cu Yd. Excav. for Irrig. Ditch Change 150' on Rt. (W=1) & 150 Cu Yds. Excav. for Drain Ditch across Circle (W=2) and 1000 Cu Yds. Excav. for Leveling and Shaping area inside 18° Circle.
2252+21 - Rem. ROW Marker on Lt.
2252+27 - Rem. 15"x3' V.C.P. with Conc. Hdw. for Irrig. Div. on Rt.
2252+31 - Rem. ROW Marker on Rt.
2252+71 Bk - 2250+00 Ah. - Rem. 2'-18"x60" C.M.P. Culverts.
2253+80 - Move Feed Box on Lt. off R.O.W.
2255+00 - Rem. Conc. Box in Ditch on Rt.
2255+34 - Rem. Present Bridge; Reg'd Special 14' x 4'-6" x 90' Conc. Box Culv. (Skew 75° Rt.) (Details on Sheet No. 19).
2255+35 - Rem. Headgate on Rt.; Reg'd Headgate on Rt. (Details on Sheet No. 21).

NORTH-EAST CONNECTION
2249+00 to 2255+20 - Reg'd 50 Cu Yds. Excav. for Irrig. Ditch Change on Rt. (W=1).
2251+00 - Reg'd 15 Cu Yd. Embank. for Road Appro. on Rt.
2251+71 (7+22 E½ Circle) - Reg'd 18"x74" C.M.P. Cross Culv. for Irrig. Ditch.
2251+71 to 2255+20 - Reg'd 150 Cu Yd. Excav. for Irrig. Ditch Change on Rt. (W=1).

Δs 45°00'
Ts 245.4'
Δc 24°00'
Ds 14°00'
Tc 87.0'
Lc 171.4'
Ts 10°30'
Ds 150.0'
Tc 50.16'
Lc 100.18'

STA. 777+00 = END EAST APPROACH TO INTERSECTION



SOUTH - EAST CONNECTION

NORTH - EAST CONNECTION

Excav. Factor
Excav.
Embank.
Borrow
Sta. 2245+98.8
Yd. Mi. 0.14
Borrow Source

Excav. Factor
Excav.
Embank.
Borrow
Sta. 2251+71
Yd. Mi. 0.14
Borrow Source

Excav. Factor
Excav.
Embank.
Borrow
Sta. 2255+20
Yd. Mi. 0.14
Borrow Source

Excav. Factor
Excav.
Embank.
Borrow
Sta. 2249+00
Yd. Mi. 0.14
Borrow Source

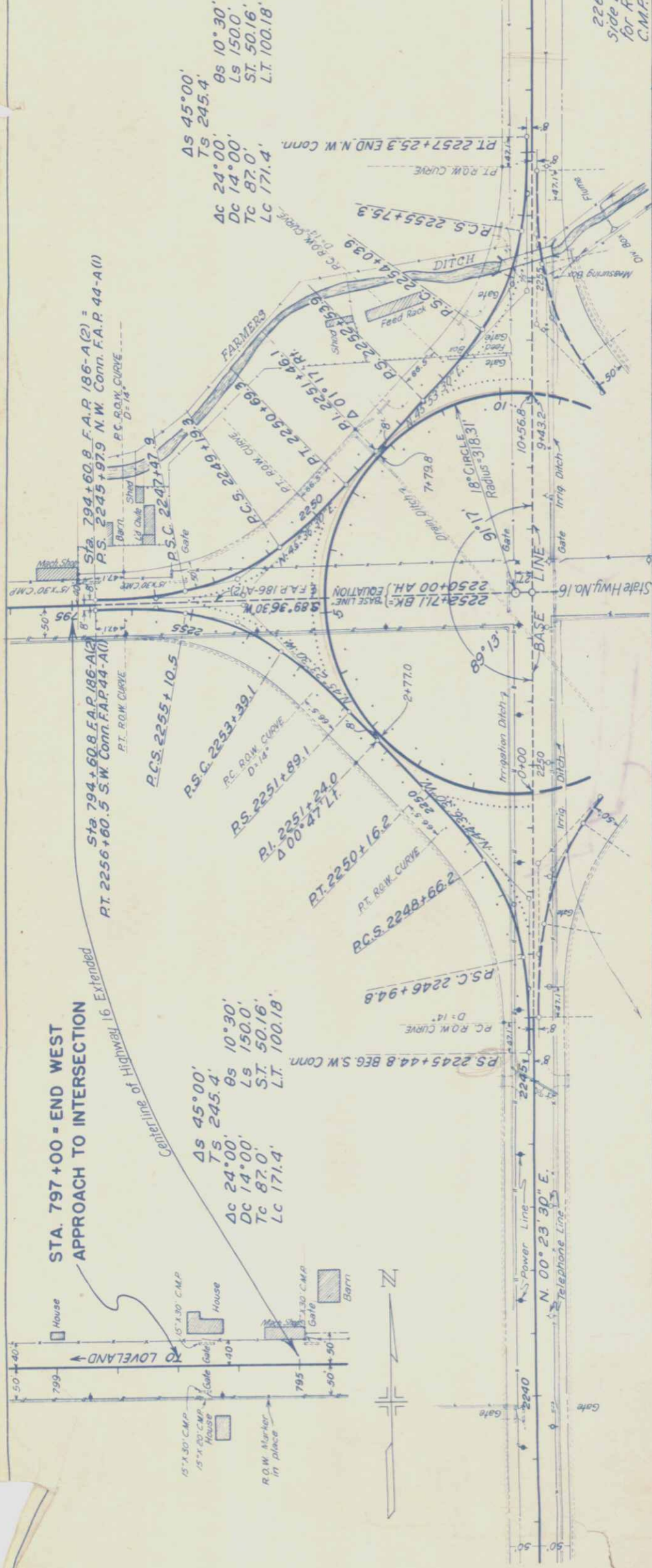
FED. ROAD DIST. NO.	STATE	SIN. FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	44-A(1)	51	

NORTH-WEST CONNECTION

2247+25 -- Rem. 2 R.O.W. Markers on Lt.
 2247+35 -- Rem. & Relay 15"x30" C.M.P.
 Side Drain on Lt. Also 10 Cu Yd. Embank.
 for Rd. Appr. on Lt.
 2251+42 (7"x75 W 1/2 Circle) -- Req'd. 24"x94"
 C.M.P. Cross Culvert.
 2248+00 to 2251+70 -- Req'd. 175 Cu Yd.
 Excav to Vary Roadway Ditch on Lt.
 2252+00 -- Req'd. 18"x28" C.M.P. Side Drain
 & 50 Cu Yd. Embank. for Rd. Appr. on Lt.
 2254+00 -- Req'd. 18"x28" C.M.P. Side Drain
 & 50 Cu Yd. Embank. for Rd. Appr. on Lt.
 2255+70 -- Req'd. 18"x28" C.M.P. Side Drain
 & 40 Cu Yd. Embank. for Rd. Appr. on Lt. Also
 Rem. 12"x20" C.M.P. on Lt.
 *Included for payment in Profile Quantities.

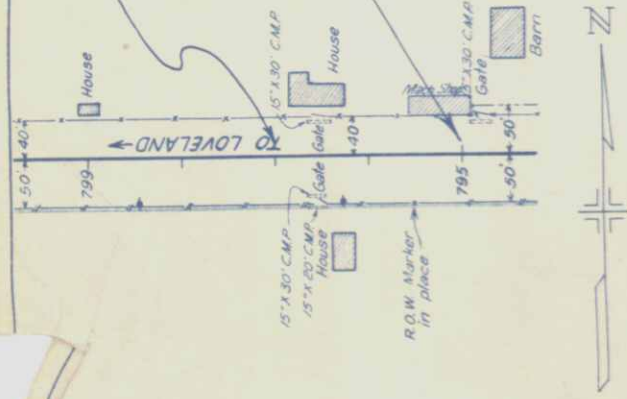
ΔS 45°00'
 TS 245.4'
 ΔC 24°00'
 DC 14°00'
 TC 87.0'
 LC 171.4'
 LT 100.18'

RT 2257+25.3 END N.W. Conn.



STA. 797+00 - END WEST APPROACH TO INTERSECTION

ΔS 45°00'
 TS 245.4'
 ΔC 24°00'
 DC 14°00'
 TC 87.0'
 LC 171.4'
 LT 100.18'



2262+40 -- Req'd. 18"x28" C.M.P.
 Side Drain & 25 Cu Yd. Embank.
 for Road Appr. on Lt. Rem. 12"x20"
 C.M.P. on Lt.

