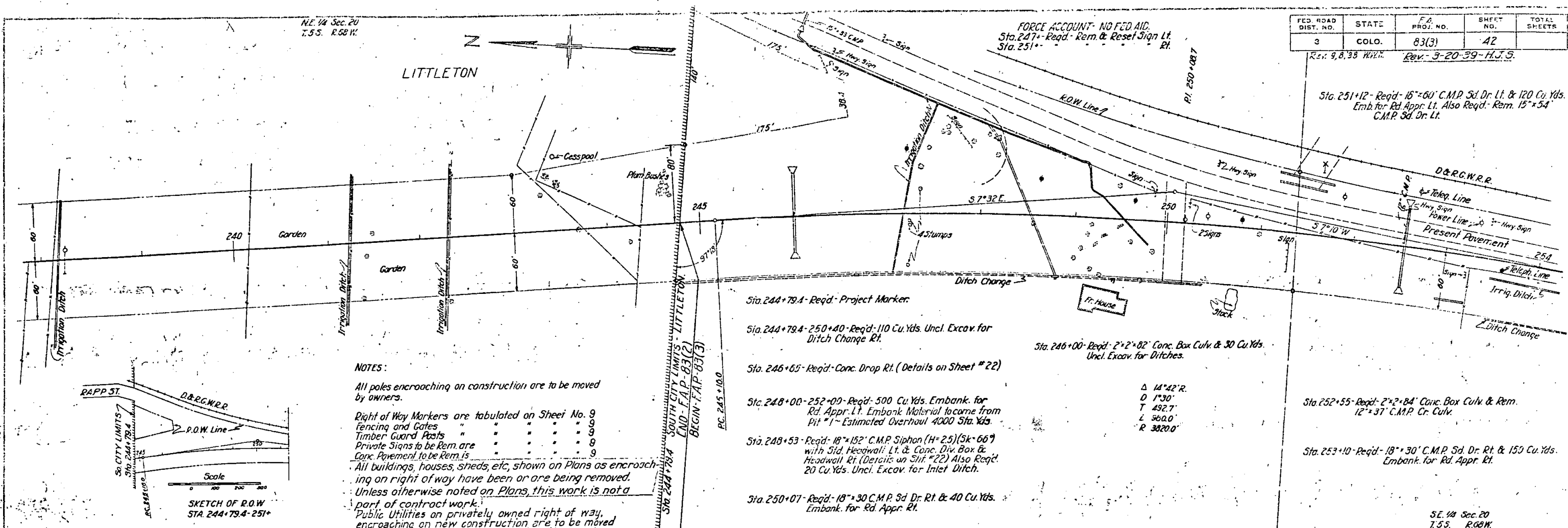


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SE 1/4 Sec. 20
T.55. R.68W.



NOTES:

All poles encroaching on construction are to be moved by owners.

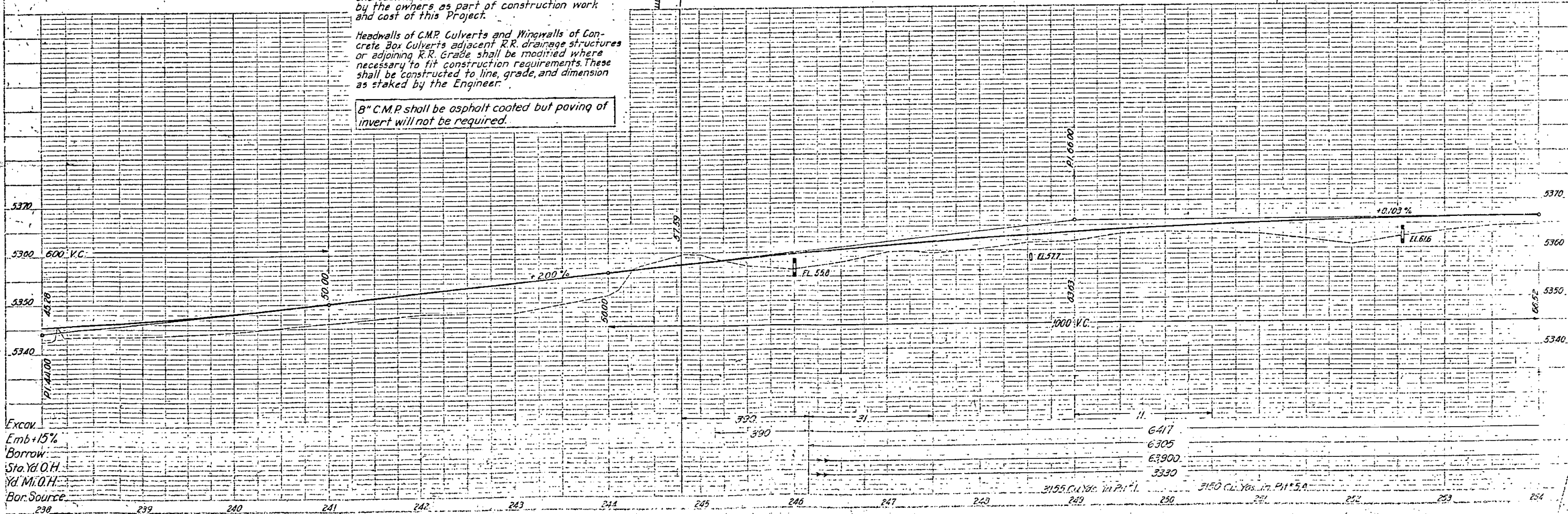
Right of Way Markers are tabulated on Sheet No.	9
Fencing and Gates	9
Timber Guard Posts	9
Private Signs to be Rem. are	9
Corr. Pavement to be Rem. is	9

Long Payment to be kept is
All buildings, houses, sheds, etc, shown on Plans as encroaching on right of way have been or are being removed.
Unless otherwise noted on Plans, this work is not a part of contract work.

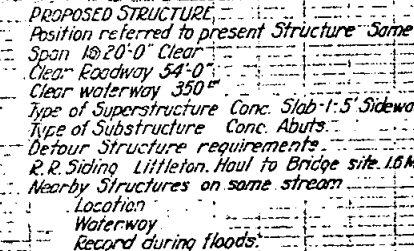
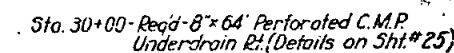
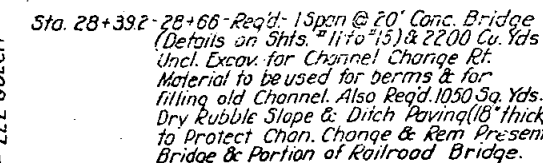
Public Utilities on privately owned right of way, encroaching on new construction are to be moved by the owners as part of construction work and cost of this Project.

Headwalls of C.M.P. Culverts and Wingwalls of Concrete Box Culverts adjacent R.R. drainage structures or adjoining R.R. Grade shall be modified where necessary to fit construction requirements. These shall be constructed to line, grade, and dimension as stated by the Engineer.

8" C.M.P. shall be asphalt coated but paving of invert will not be required.



Rev. - 3-20-39-H.J.S.



Excav.
Emb.+15%
Borrow
Sta. Yd. O.H.
Yd. Mi. O.H.
Bor. Source

SE 1/4, Sec. 20,
Twp. 5, S., R. 68, W.

NE 1/4, Sec. 29,
Twp. 5, S., R. 68, W.

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	83(3)	44	

Rev. 3-20-39 H.J.S.

Sta. 34+80-Reqd. Rem. Pipe Sd. Dr. Rt.

Sta. 33+00-39+00-Reqd. 8" x 600' Perf. C.M.P. Underdrain Lt. (Details on Sht. #25) to be connected with 12" C.M.P. Cr. Culv. Sta. 36+00. T Connection bet. 8" Perf. Underdrain & 12" C.M.P. Cr. Culv. to be included in contract unit price per lin. ft. for 8" Perf. Underdrain.

Sta. 36+00-Reqd. 12" x 94' C.M.P. Cr. Culv. (No Hdws) to be connected with 8" Perf. C.M.P. Underdrain on Lt. Sta. 33+00-39+00.

Sta. 39+00-43+50-Reqd. 8" x 450' Perf. C.M.P. Underdrain Lt. (Details on Sht. #25) to be connected with 12" C.M.P. Cr. Culv. at Sta. 42+50. T Connection bet. 8" Perf. Underdrain & 12" C.M.P. Cr. Culv. to be included in contract unit price per lin. ft. for 8" Perf. C.M.P. Underdrain.

Sta. 42+50-Reqd. 12" x 112' C.M.P. Cr. Culv. (No Hdws) to be connected with 8" Perf. C.M.P. Underdrain on Lt. Sta. 39+00-43+50.

Sta. 43+20-Reqd. Rem. 12" x 36' C.M.P. Cr. Culv.

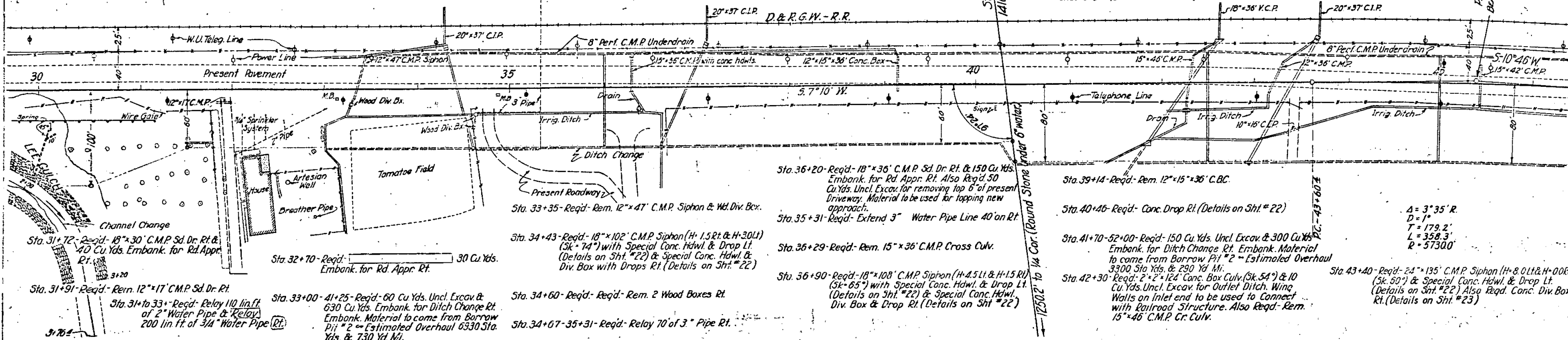
Sta. 43+42-Reqd. 18" x 40' C.M.P. Sd. Dr. & 500 Cu Yds Embank. for Rd. Appr. Rt. Also Req'd. Rem. 8" x 16' C.M.P. Sd. Dr. Embank. Material to come from Pit #1 - Estimated Overhaul 5300 Sta. Yds. & 150 Yd. M.

Sta. 43+50-48+20-Reqd. 8" x 470' Perf. C.M.P. Underdrain Lt. to be connected with 12" C.M.P. Cr. Culv. at Sta. 45+00. T Connection bet. 8" Perf. C.M.P. Underdrain & 12" C.M.P. Cr. Culv. to be included in contract unit price per lin. ft. of 8" Perf. C.M.P. underdrain. (Details on Sht. #25)

Sta. 45+00-Reqd. 12" x 108' C.M.P. Cr. Culv. to be connected with 8" Perf. C.M.P. Underdrain Lt. Sta. 43+50-48+20 (No Hdws)

Sta. 45+44-Reqd. Rem. 15" x 42' C.M.P. Cr. Culv.

P.I. - 45+39.6
Bearing Equation - 37°10' N. 86°
57°11' W. 4h.



Sta. 36+20-Reqd. 18" x 36' C.M.P. Sd. Dr. Rt. & 150 Cu Yds. Embank. for Rd. Appr. Rt. Also Req'd. 50 Cu Yds. Uncl. Excav. for removing top 6" of present Driveway. Material to be used for topping new approach.

Sta. 35+31-Reqd. Extend 3" Water Pipe Line 40' on Rt.

Sta. 36+29-Reqd. Rem. 15" x 36' C.M.P. Cross Culv.

Sta. 36+90-Reqd. 18" x 108' C.M.P. Siphon (H=4.5 Lt. & H=15 Rt.) (Sk. 65") with Special Conc. Hdwl. & Drop Lt. (Details on Sht. #22) & Special Conc. Hdwl. Div. Box & Drop Rt. (Details on Sht. #22)

Sta. 39+14-Reqd. Rem. 12" x 15' x 36' C.B.C.

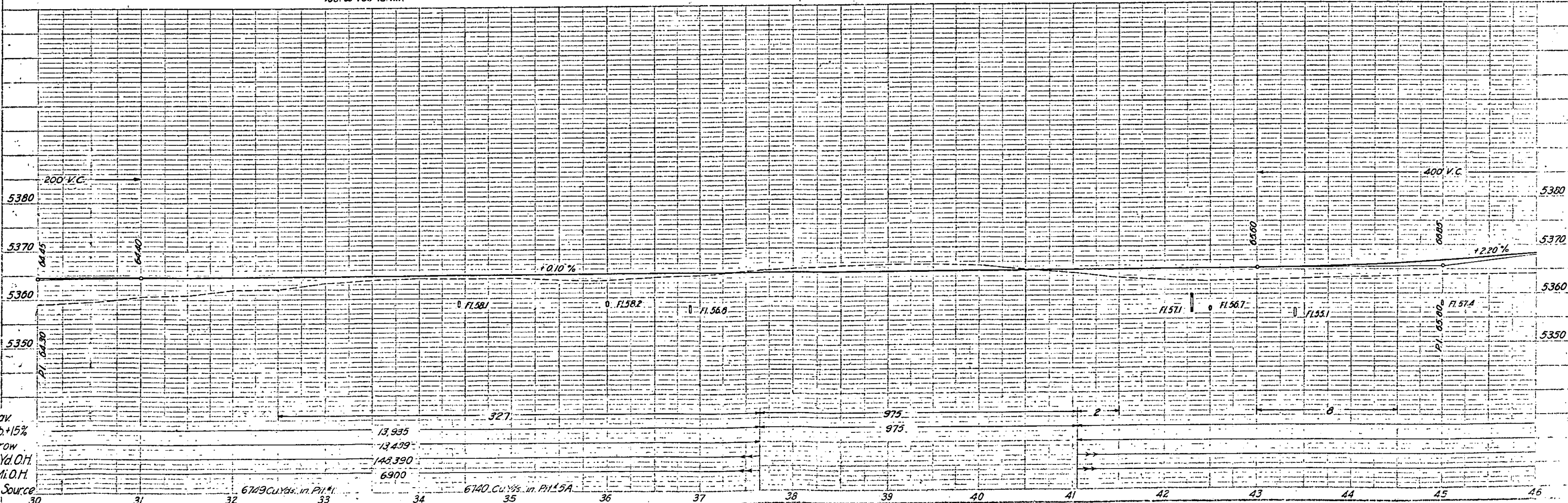
Sta. 40+46-Reqd. Conc. Drop Rt. (Details on Sht. #22)

Sta. 41+70-52+00-Reqd. 150 Cu Yds. Uncl. Excav. & 300 Cu Yds. Embank. for Ditch Change Rt. Embank. Material to come from Borrow Pit #2 - Estimated Overhaul 3300 Sta. Yds. & 290 Yd. M.

Sta. 42+30-Reqd. 2" x 124' Conc. Box Culv. (Sk. 54") & 10 Cu Yds. Uncl. Excav. for Outlet Ditch. Wing Walls on Inlet end to be used to connect with Railroad Structure. Also Req'd. Rem. 15" x 46' C.M.P. Cr. Culv.

Sta. 43+40-Reqd. 24" x 135' C.M.P. Siphon (H=8.0 Lt. & H=0.0 Rt.) (Sk. 50") & Special Conc. Hdwl. & Drop Lt. (Details on Sht. #22) Also Req'd. Conc. Div. Box Rt. (Details on Sht. #23)

$\Delta = 3^\circ 35' R$
 $D = 1'$
 $T = 179.2'$
 $L = 358.3'$
 $R = 57300'$



Excav
Emb. +15%
Borrow
Sta. Yd. O.H.
Yd. M. O.H.
Bor. Source

13,935
13,439
148,390
6900

6749 Cu Yds. in Pit #1

6740 Cu Yds. in Pit #5A

24 Rev - 3-27-39-H.J.S.

REV. 8-16-05 PAGE 1

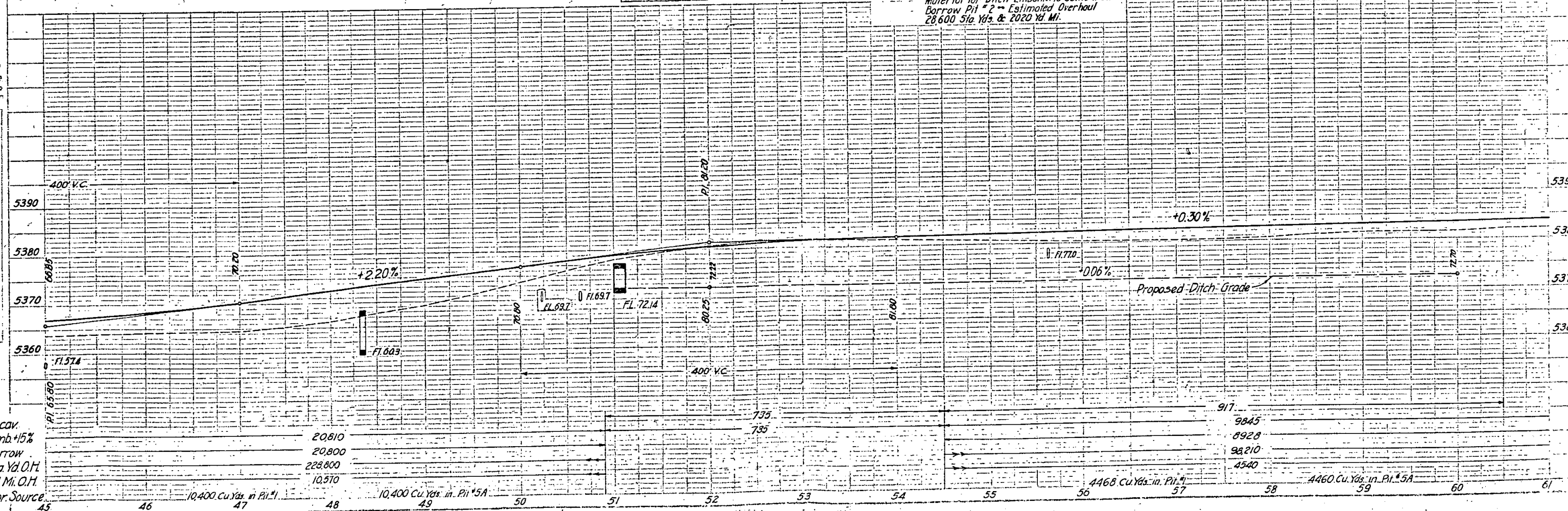
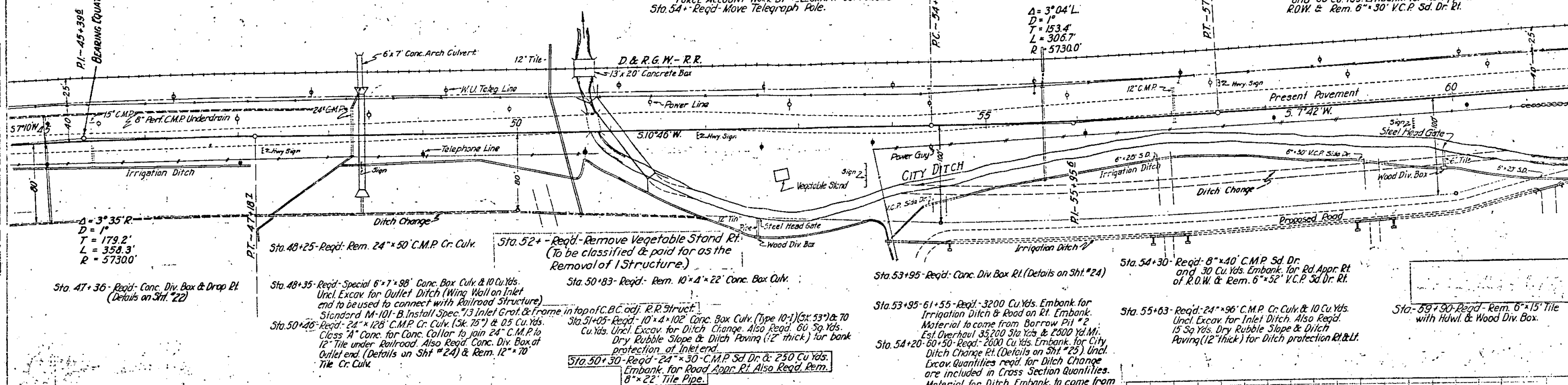
Sta. 59+10- Reg'd- 8" x 30' C.M.P. Sd. Dr.
and 60 Cu. Yds. Embank. for Rd. Appr. Rt. of
R.O.W. & Rem. 6" x 30' V.C.P. Sd. Dr. Rt.

FORCE ACCOUNT- NO FED. AID.
Sta. 53+- Req'd- Rem. & Reset Sign Rt.
Sta. 59+- " " " " " "

FORCE ACCOUNT-WORK BY TELEGRAPH CO. FORCES
Sta 54+-Read-Move Telegraph Pole.

Details on Sht. #24

Sta. 49+25	Regd.	Conc.	Drop	Rt.	(Details on Sht # 22)	
Sta. 49+85	"	"	"	"	"	22
Sta. 50+49	"	"	"	"	"	22
Sta. 51+25	"	"	"	"	"	22


$$\begin{aligned}\Delta &= 3^{\circ}04' L \\ D &= 1^{\circ} \\ T &= 153.4' \\ L &= 306.7' \\ D &= 57300\end{aligned}$$


NE 1/4 SEC. 29
T. 5 S - R. 68 W.

SE 1/4 SEC. 29
T. 5 S - R. 68 W.

FED. ROAD DIST. NO.	STATE	FA PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	83(3)	46	

Rev. 3-20-39, H.J.S.

Sta. 60+86 - Req'd. Conc. Div. Box Rt. (Details on Sht. #24)
Sta. 61+15 -

Sta. 68+40 - Req'd. 2' x 2' 88" C.B.C. (Sk. 72") & 20 Cu Yds. Uncl. Excav. for Ditches Also Req'd. 20 Sq Yds. Dry Rubble Slope & Ditch Paving (12" thick) for ditch protection Rt. & Lt.

Sta. 69+33 - Req'd. Rem. 12" x 38" C.M.P. Cr. Culv.

Sta. 68+50 - Req'd. 50 Cu Yds. Uncl. Excav. for Rd. Appr. Lt. & Rem. 12" x 25" C.M.P. Sd. Dr. Lt.

Sta. 67+00.5

D. & R.G.W. - R.R.

12" x 24" C.I.P.

12" x 25" C.M.P.

12" x 38" C.M.P.

12" x 39" C.M.P.

18" x 33" V.C.P.

N

W.U. Tel. Line

3" Hwy. Sign

Power Line

Hwy. Sign

Present Pavement

70

75

Telephone Line (M.S.T. & T.)

36" Stumps

Flange

Artesian Well & Hand Pump

Old 1" Pipe Line

S.W. Fence

1/2" Pipe discolors over time

Haven Wire Fence

Tree

Steel Head Gate

Ditch Change

Wood Div. Box

6" x 20" S.D.

Sta. 61+00 - Req'd. 8" x 22" C.M.P. Sd. Dr. and 20 Cu Yds. Embank. for Rd. Appr. Rt. of R.O.W. & Rem. 6" x 20" V.C.P. Sd. Dr. Rt.

Sta. 65+ - 67+ - Req'd. Rem. 300 Lin. Ft. of water Pipe Rt.

Sta. 62+50 - Req'd. Conc. Hdwl. for Ditch Intake & 6" x 44" Vit. Cl. Culv. Outlet Pipe & Rem. Headgate & Frame (from Sta. 59+90) & Reset Rt. Also Req'd. Conc. Div. Box Rt. (Details on Sht. #24)

Sta. 65+80 - Req'd. 50 Cu Yds. Embank. for Rd. Appr. Rt.

Sta. 66+48.6 - Req'd. Rem. Pump & Cap Casing

CITY DITCH

Hot

Beds

Cone Foundation

Hot House

Sta. 72+10 - 72+70 - Req'd. 20 Cu Yds. Embank. for Road. Rt.

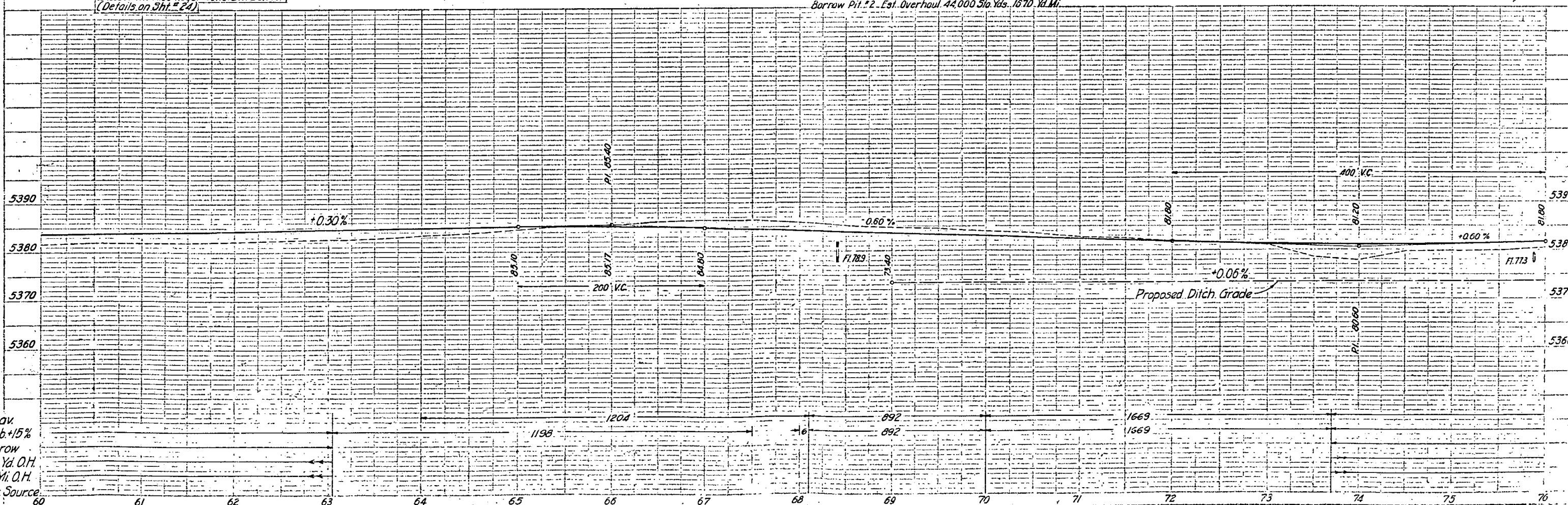
Sta. 73+65 - Req'd. 8" x 20" C.M.P. Sd. Dr. and 20 Cu Yds. Embank. for Rd. Appr. Rt. of R.O.W. & Rem. 6" x 15" V.C.P. Sd. Dr. Rt.

Sta. 73+90 - Req'd. Conc. Div. Box Rt. (Details on Sht. #24)

Sta. 75+00 - Req'd. Conc. Drop Rt. (Details on Sht. #22)

Δ 13° 29' R.
D 1"
T 677.4'
L 1348.3'
R 5730.0'

Sta. 68+70 - 83+40 - Req'd. 4000 Cu Yds. Embank. for City Ditch Change Rt. (Details on Sht. #25). Uncl. Excav. Quantities req'd for Ditch Change included in Cross Section Quantities. Material for Ditch Embank. to come from Borrow Pit #2. Est. Overhaul 44,000 Sta. Yds. 1670 Yd. Mi.



Excav.
Emb. +15%
Borrow
Sta. Yd. O.H.
Yd. Mi. O.H.
Bor. Source

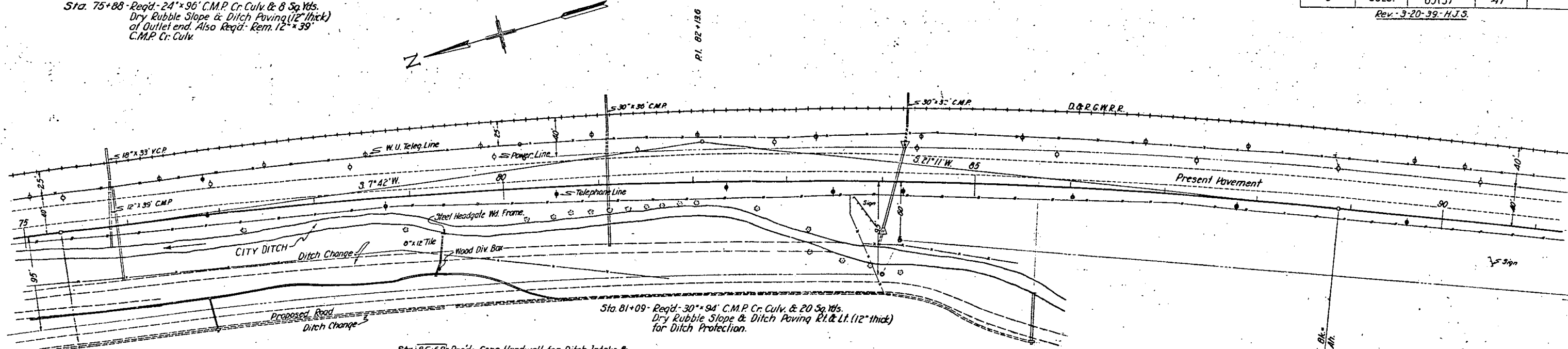
REPRODUCED FROM THE ORIGINAL DRAWING BY THE ENGINEER

S.E. 1/4 Sec. 29
T.55. R.68 W.

FED. ROAD DIST. NO.	STATE	FA PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	83(3)	47	

Rev. 3-20-39 H.J.S.

Sta. 75+88 - Reqd. 24"x36" C.M.P. Cr. Culv. & 8 Sq. Yds. Dry Rubble Slope & Ditch Paving (12" thick) of Outlet end. Also Reqd. Rem. 12"x39" C.M.P. Cr. Culv.



Sta. 72+70 - 85+88 - Reqd. 300 Cu. Yds. Embank. for Irrigation Ditch Rt.

Sta. 85+68 - Reqd. Conc. Headwall for Ditch Intake & 8"x48" Vit. Cl. Culv. Outlet Pipe & Rem. & Resel Headgate & Frame Rt. (from Sta. 79+35) Rt. Also Reqd. Conc. Div. Box Rt. (Details on Sht. # 24)

Δ 13°29' R.
D 1"
T 677.4'
L 1348.3'
R 5730.0'

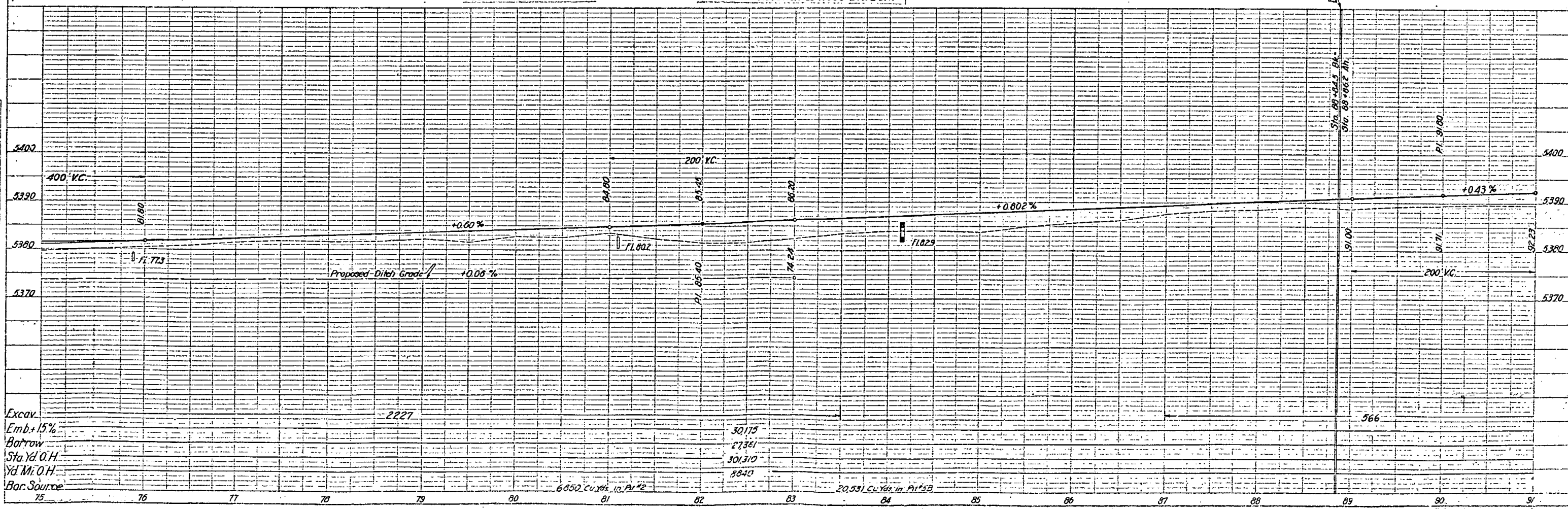
Sta. 84+14 - Reqd. 3'x2'x64' Conc. Box Culv. (Sk. 76°) & 10 Cu. Yds. Uncl. Excav. for Ditches. Also Reqd. 30 Cu. Yds. Dry Rubble Slope & Ditch Paving Rt. & Lt. (12" thick)

Sta. 76+85 - Reqd. Conc. Div. Box Rt. (Details on Sht. # 24)

Sta. 79+75 - Reqd. Conc. Drop Rt. (Details on Sht. # 22)

Sta. 72+70 - 86+00 - Reqd. 350 Cu. Yds. Embank. for Road on Rt. Embank. Material to come from Borrow Pit #2 Est. Overhaul 3850 Sta. Yds. & 140 Yd. Mi.

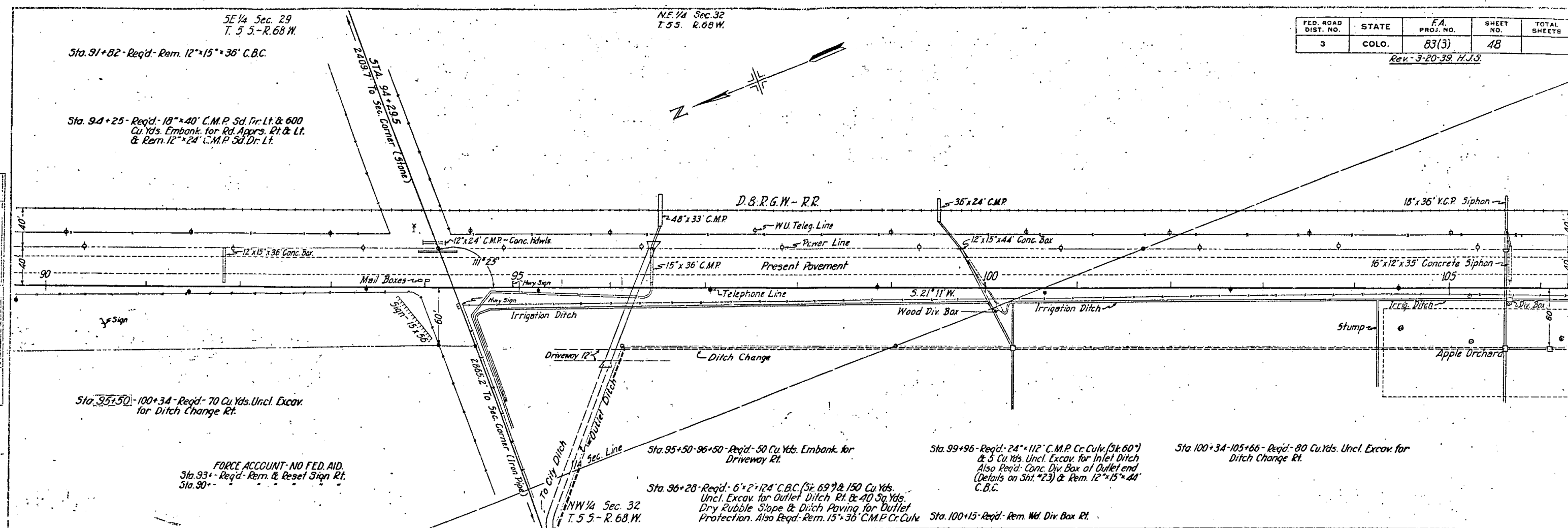
FORCE ACCOUNT - NO FED. AID.
Sta. 83+ - Reqd. Rem. & Resel Sign Rt.
Sta. 79+35 - Reqd. Rem. 8"x12" Tile with Headwall & Wood Div. Box.



Excav.
Emb. 15%
Borrow
Sta. Yd. O.H.
Yd. Mi. O.H.
Bar. Source

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	83(3)	48	

Rev. 3-20-39 H.J.B.



PLAN
 PROFILE
 MICRORFILMED

N.E. 1/4 Sec. 32
T. 55. R. 68 W.

NW 1/4 Sec. 32
T. 55. R. 68 W.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	83(3) & 130(2)	49	

Rev. 9, 38. H.J.S. Rev. 3-20-39. H.J.S.

NOTES: Sta. 115+00 - Req'd. Project Marker.

Public Utilities on privately owned right of way encroaching on new construction are to be moved by the owners as part of construction work and cost of this Project.

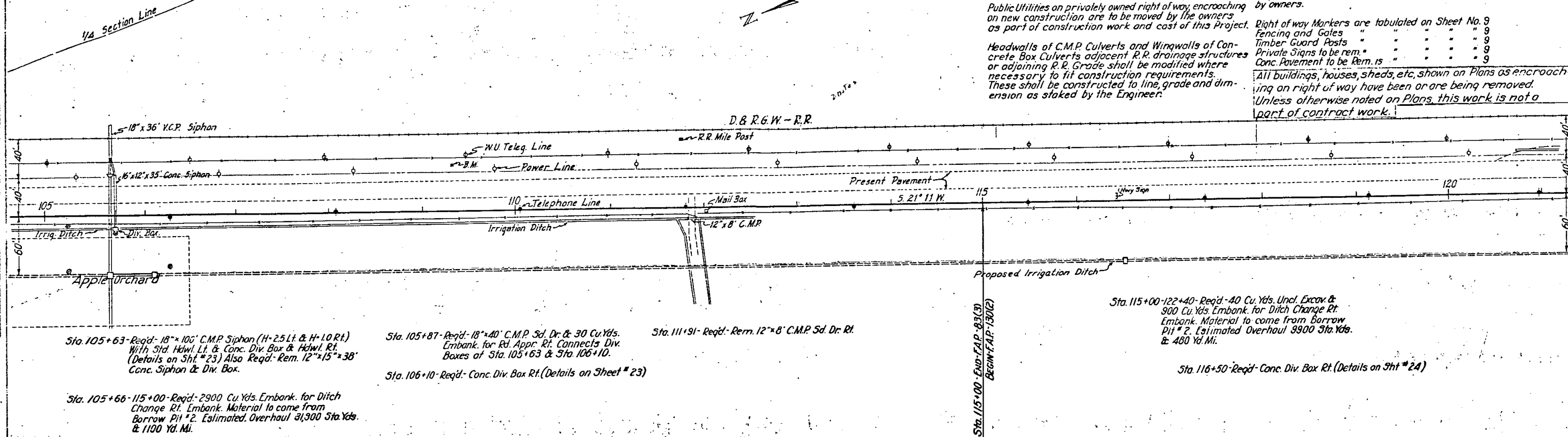
Headwalls of C.M.P. Culverts and Wingwalls of Concrete Box Culverts adjacent R.R. drainage structures or adjoining R.R. Grade shall be modified where necessary to fit construction requirements. These shall be constructed to line, grade and dimension as staked by the Engineer.

NOTES:

All poles encroaching on construction are to be moved by owners.

Right of way Markers are tabulated on Sheet No. 9
Fencing and Gates " " " " 9
Timber Guard Posts " " " " 9
Private Signs to be rem. " " " " 9
Conc. Pavement to be Rem. is " " " " 9

All buildings, houses, sheds, etc. shown on Plans as encroaching on right of way have been or are being removed. Unless otherwise noted on Plans, this work is not a part of contract work.



Sta. 105+63 - Req'd. 18"x100' C.M.P. Siphon (H-25 Lt. & H-10 Rt.) With Std. Hdwl. Lt. & Conc. Div. Box & Hdwl. Rt. (Details on Sht #23) Also Req'd. Rem. 12"x15"x38' Conc. Siphon & Div. Box.

Sta. 105+87 - Req'd. 18"x40' C.M.P. Sd. Dr. & 30 Cu.Yds. Embank. for Rd. Appr. Rt. Connects Div. Boxes of Sta. 105+63 & Sta. 106+10.

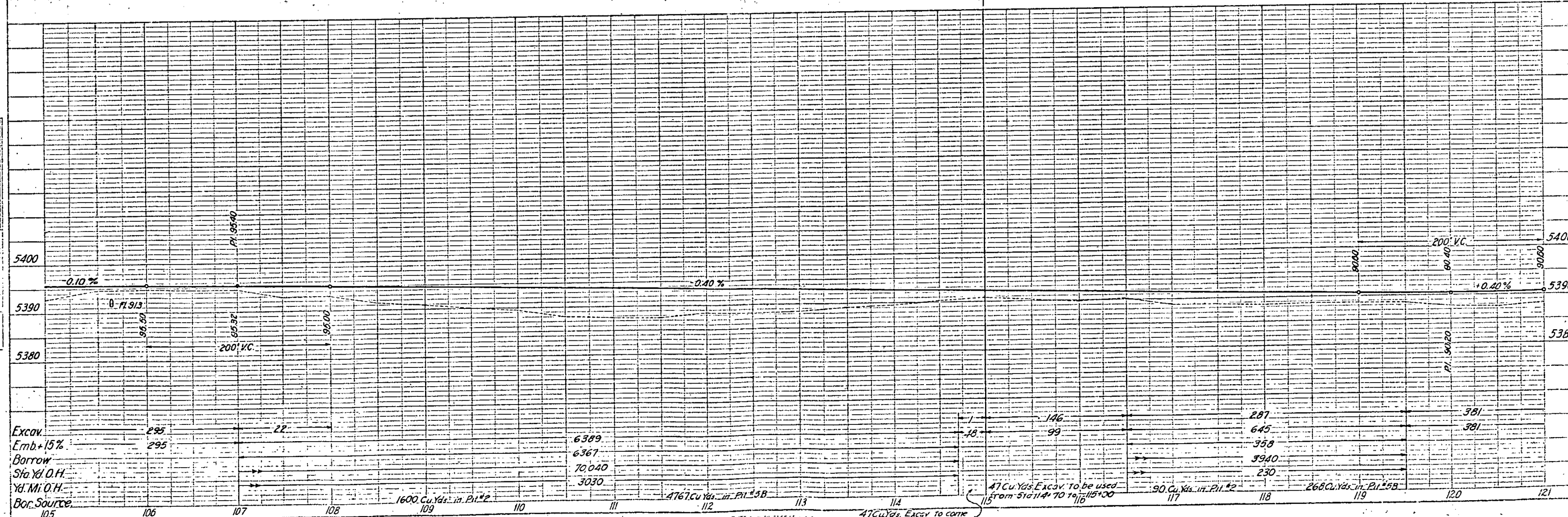
Sta. 111+91 - Req'd. Rem. 12"x8' C.M.P. Sd. Dr. Rt.

Sta. 106+10 - Req'd. Conc. Div. Box Rt. (Details on Sheet #23)

Sta. 105+66-115+00 - Req'd. 2900 Cu.Yds. Embank. for Ditch Change Rt. Embank. Material to come from Borrow Pit #2. Estimated Overhaul 31,300 Sta.Yds. & 1190 Yd. Mi.

Sta. 115+00-122+40 - Req'd. 40 Cu.Yds. Uncl. Excav. & 900 Cu.Yds. Embank. for Ditch Change Rt. Embank. Material to come from Borrow Pit #2. Estimated Overhaul 9900 Sta.Yds. & 480 Yd. Mi.

Sta. 116+50 - Req'd. Conc. Div. Box Rt. (Details on Sht #24)



N.W. 1/4 Sec. 32
T.5 S. R.68 W.

SW 1/4 Sec. 32
T.5 S. R.68 W.

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	130(2)	50	

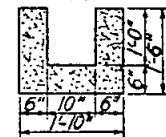
Rev. 9.8.38 M.H.H.

Rev. 3-20-39 H.J.S. Fence & Trees

Sta. 120+50-122+25-Reqd. 18"x150' C.M.P.
Sd. Dr. Lt. & 200 Cu. Yds. Embank.
for Rd. Appr. Lt.

Sta. 121+71-122+46-Reqd. 75 lin. Ft. Metal Plate Guard Fence Lt.
Sta. 121+99-122+74 75 Rt.
Sta. 123+22-124+22 100 Lt.
Sta. 123+50-124+75 125 Rt.

DETAILS OF CONC. DITCH
Sta. 126+28 to 128+49

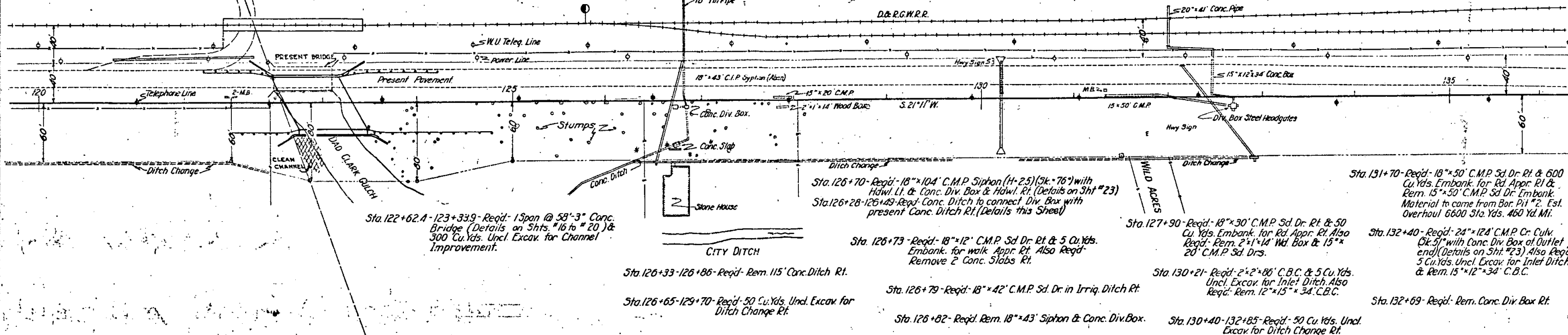


15 Cu. Yds. C.I. A' Conc.

18" Tin Pipe

D. & R.G.W.R.R.

20"x41" Conc. Pipe



Sta. 122+62.4-123+33.9-Reqd. 1 Span @ 58'-3" Conc.
Bridge (Details on Shts. #16 to #20) &
300 Cu. Yds. Uncl. Excav. for Channel
Improvement.

Sta. 126+70-Reqd. 18"x104' C.M.P. Siphon (H=2.5) (Sk. 76') with
Hdwl. Lt. & Conc. Div. Box & Hdwl. Rt. (Details on Sht. #23)
Sta. 126+28-126+49-Reqd. Conc. Ditch to connect Div. Box with
present Conc. Ditch Rt. (Details this Sheet)

Sta. 126+73-Reqd. 18"x12' C.M.P. Sd. Dr. Rt. & 5 Cu. Yds.
Embank. for walk Appr. Rt. Also Req'd.
Remove 2 Conc. Slabs Rt.

Sta. 126+79-Reqd. 18"x42' C.M.P. Sd. Dr. in Irrig. Ditch Rt.

Sta. 126+82-Reqd. Rem. 18"x43' Siphon & Conc. Div. Box.

Sta. 127+90-Reqd. 18"x30' C.M.P. Sd. Dr. Rt. & 50
Cu. Yds. Embank. for Rd. Appr. Rt. Also
Req'd. Rem. 2"x14' Wd. Box & 15"x
20' C.M.P. Sd. Drs.

Sta. 130+21-Reqd. 2"x2'x86' C.B.C. & 5 Cu. Yds.
Uncl. Excav. for Inlet Ditch. Also
Req'd. Rem. 12"x15'x34' C.B.C.

Sta. 130+40-132+85-Reqd. 50 Cu. Yds. Uncl.
Excav. for Ditch Change Rt.

Sta. 131+70-Reqd. 18"x50' C.M.P. Sd. Dr. Rt. & 600
Cu. Yds. Embank. for Rd. Appr. Rt. &
Rem. 15"x50' C.M.P. Sd. Dr. Embank.
Material to come from Bor. Pit #2. Est.
Overhaul 6600 Sta. Yds. 460 Yd. Mt.

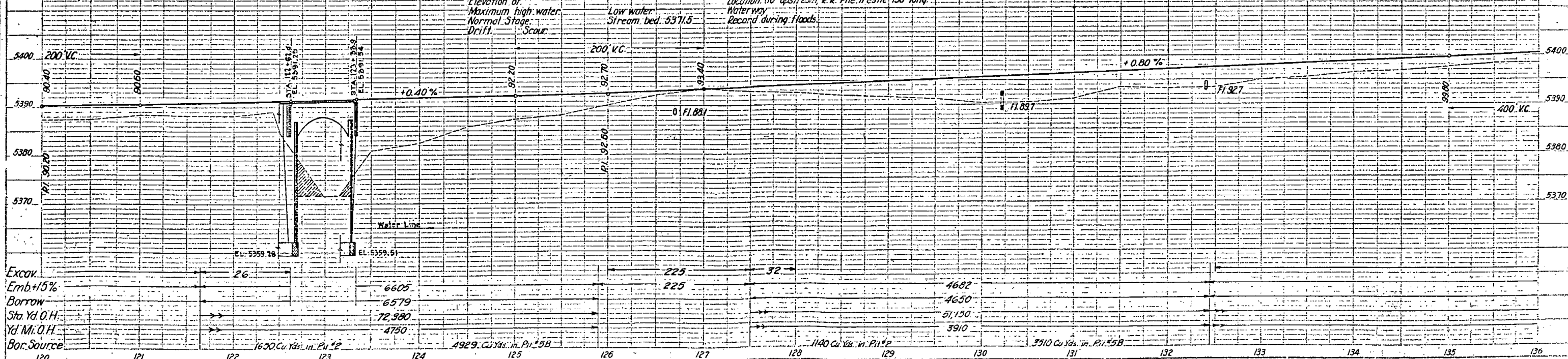
Sta. 132+40-Reqd. 24"x124' C.M.P. Cr. Culv.
(Sk. 57') with Conc. Div. Box at Outlet
end (Details on Sht. #23) Also Req'd.
5 Cu. Yds. Uncl. Excav. for Inlet Ditch
& Rem. 15"x12'x34' C.B.C.

Sta. 132+69-Reqd. Rem. Conc. Div. Box Rt.

NOTES ON STRUCTURE NO. F-16-F

PRESENT STRUCTURE
Span: 60'-0"
Clear Roadway: 20'-0"
Clear Waterway: 75'-0"
Type of Superstructure: 60' Low Steel Truss.
Type of Substructure: Conc. Wings & Abuts. on Piles.
Requirements as to removal: Remove after part of
new bridge is available to traffic.
STREAM DATA
Drainage Area in Sq. Mi.: 8
Velocity during high water:
Elevation of:
Maximum high water:
Normal Stage:
Drift: Scour:

PROPOSED STRUCTURE
Position referred to present structure. Same
Span: 58'-3"
Clear Roadway: 54'-0" Less 6' Division Strip.
Clear Waterway: 92'-0"
Type of Superstructure: Conc. Ribbed Frame.
Type of Substructure:
Detour Structure requirements: Present Bridge until
25' Clear Roadway is built & available on New Structure.
R.R. Siding, Littleton. Half to bridge site. 3 Mi.
Nearby Structures on same stream:
Location 80' Upstream, R.R. Pile Trestle 150' long.
Waterway:
Record during floods:

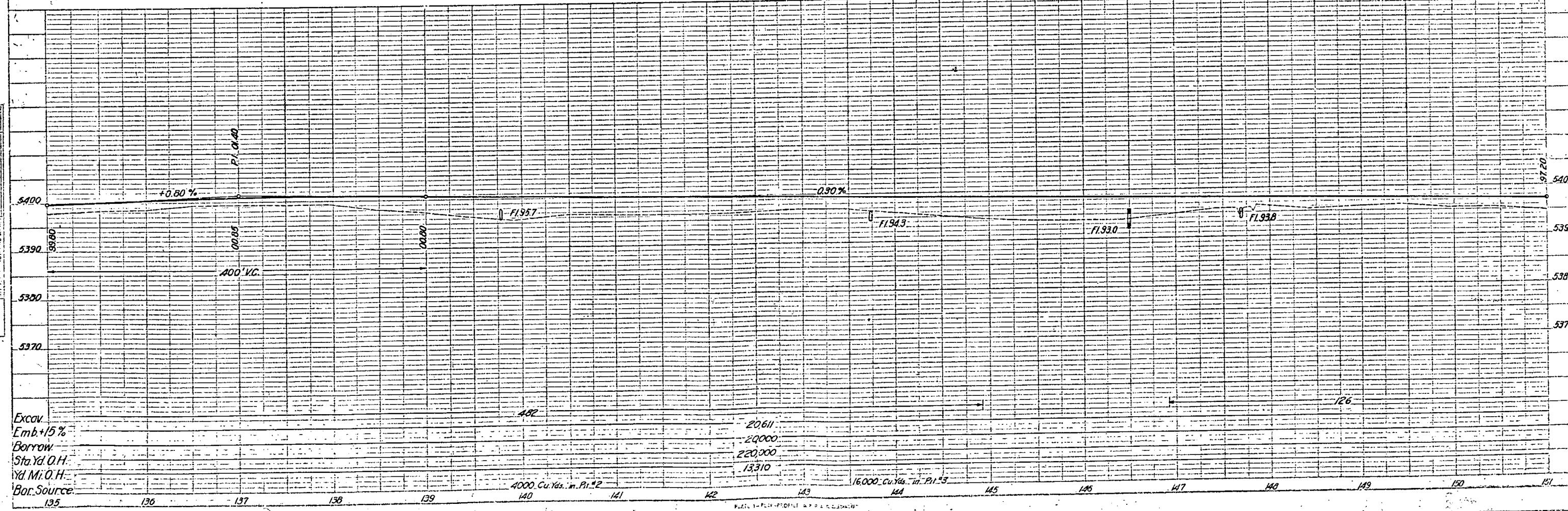
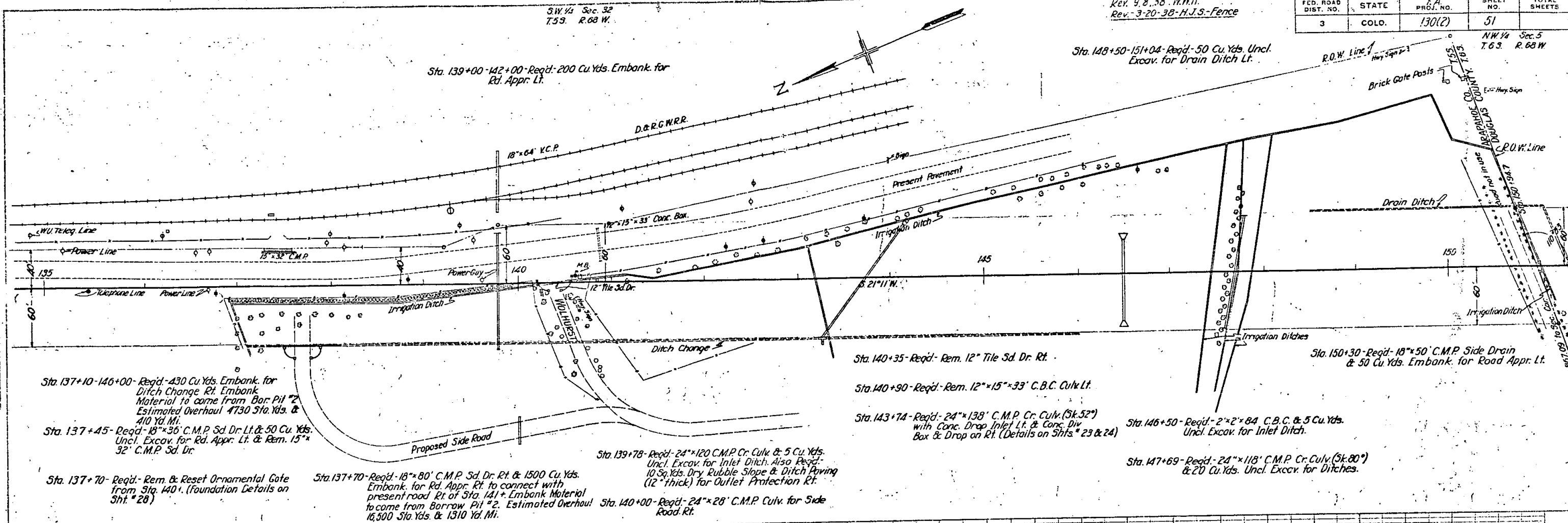


S.W. 1/4 Sec. 32
T.53. R.68 W.

Rev. 9.8.38. W.W.H.
Rev. 3-20-38-H.J.S.-Fence

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLD.	130(2)	51	

N.W. 1/4 Sec. 5
T.63. R.68 W.



FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	130(2)	52	

Rev. 9, 8, '38 H.W.H.

