

COLORADO STATE HIGHWAY DEPARTMENT PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO.158-E, DIV. NO 1 STATE HIGHWAY NO. 4 PARK COUNTY

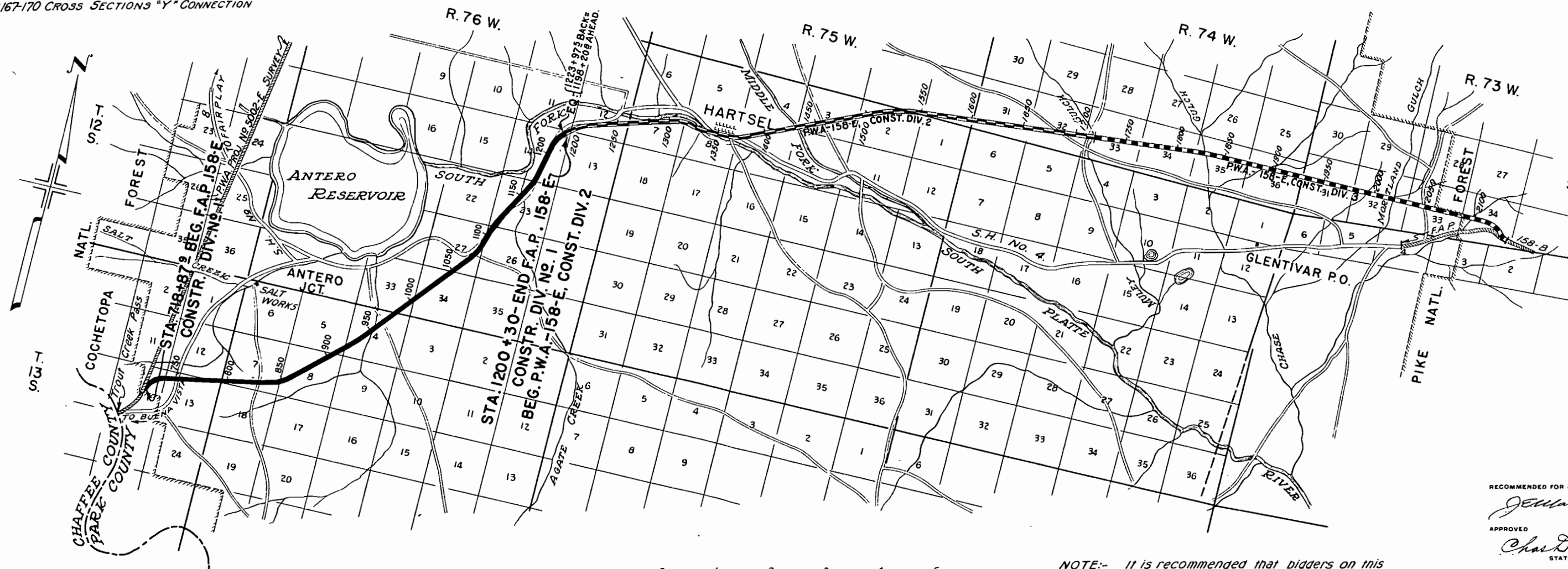
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CONVENTIONAL SIGNS

Centerline of Project	
Right of Way Lines	
Township and Range Lines	
Section Lines	
One Quarter Section Lines	
Telephone Line	
Barbed Wire Fence	
Snow Fence	
Present Road	

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 } 50,718.8 Ft = 9.605 Mi.
NET LENGTH OF PROJECT }

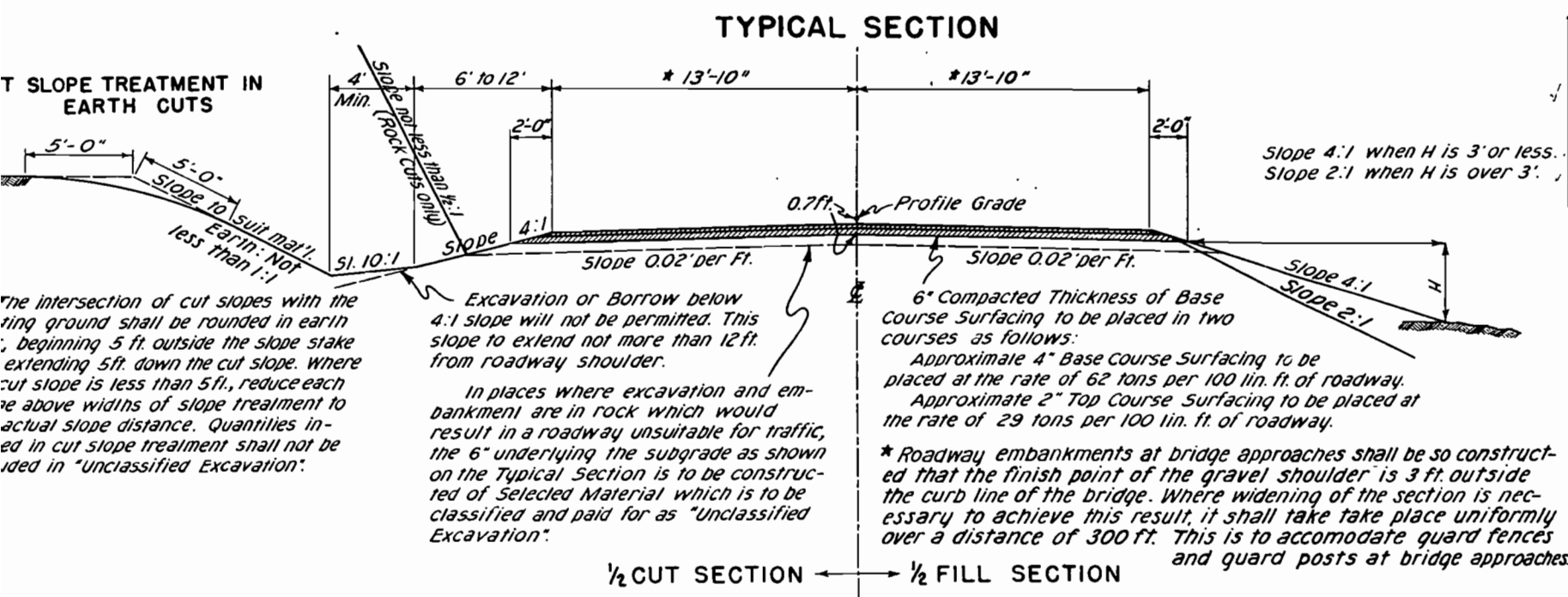


0 1 2 3 4 5
SCALE IN MILES

NOTE:- It is recommended that bidders on this project go over the plan details with one of the following field representatives of this Department:
Ernest Montgomery Division Engineer Colo. Springs.
V.H. Littlefield Resident Engineer Colo. Springs.

RECOMMENDED FOR APPROVAL 10-13-37
J. McManis
ASSISTANT ENGINEER
APPROVED
Chas. D. Vail
STATE HIGHWAY ENGINEER
RECOMMENDED FOR APPROVAL
DIST. ENG. BUREAU PUBLIC ROADS
RECOMMENDED FOR APPROVAL
CHIEF ENG. BUREAU PUBLIC ROADS
APPROVED
DIRECTOR BUREAU PUBLIC ROADS

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES



GENERAL NOTES

This project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department, adopted June 1, 1937.

All quantities on preliminary plans shall be considered approximate only.

All roadway excavation required to construct the project is to be obtained as indicated on the plans. Quantities involved beyond the limits of the side ditches as shown on the typical section, either noted as "Borrow" on the plans, or as "Embankment" in the List of Structures, are to be classified and paid for as "Unclassified Excavation". These quantities are to be staked as part of the original excavation at locations indicated on the plans. Any slope stakes beyond the limits of the typical ditches are subject to change by the Engineer to fit embankment requirements actually encountered during construction.

All curves are to be superelevated as provided for by the Standard Superelevation Sheet unless otherwise noted on the plans.

The entire project is to be cleared for variable widths which shall be held to the minimum required for the construction of the road, borrow pits, channel changes and widths required to accommodate visibility. Ordinarily the clearing shall not extend more than eight (8) feet beyond the toes of fills or tops of cut banks, and the cost thereof included in the lump sum price bid for "Clearing and Grubbing the Entire Project".

All side approach roads to the project shall be gravel surfaced with a 4" thickness of "Gravel or Crushed Rock Surfacing" extending approximately 30 feet from the edge of the highway. Estimated tonnage of surfacing material required in this operation is shown in the "List of Structures".

All corrugated metal pipe cross culverts are to be provided with one headwall on the inlet end, unless otherwise noted on the plans.

Except as otherwise noted on the plans, payment for overhaul will be based on measurement along centerline of the project.

At all places on the project where the new work lies along the present traveled road, the Contractor shall, at his own expense, prosecute construction in such manner that traffic may readily pass over the road. Also, the Contractor shall maintain in safe condition and at his own expense, all temporary approaches to and crossings of intersecting roads.

SUMMARY OF APPROXIMATE QUANTITIES

NO.	ITEM	UNIT	ROADWAY	BRIDGES			TOTALS
				BRIDGE STA. 760+	BRIDGE STA. 876+	BRIDGE STA. 1149+	
10a	Clearing and Grubbing Entire Project	Lump Sum	•				•
11b	Remove Railroad Ties Sta. 811+, Sta. 898+	Lump Sum	•				•
12a	Removing Fence	Lin. Ft.	2,100				2,100
13c	Unclassified Excavation	Cu. Yd.	219,000				219,000
13d	Cut Slope Treatment	Mile	11.2				11.2
14a	Dry Rock Excavation (Structural)	Cu. Yd.	60				60
14b	Dry Common "	"	505	65	50	50	670
14c	Wet Rock "	"	15				15
14d	Wet Common "	"	130				130
18a	Station Yard Overhaul	Sta. Yd.	243,000				243,000
18b	Yard Mile Overhaul	Yd. Mi.	200				200
26a	Gravel or Crushed Rock Surfacing	Ton	46,900				46,900
42a	Untreated Bridge Timber	M. ft. B.M.		1.5	1.5	0.8	3.8
42b	Treated Bridge Timber	M. ft. B.M.		36.6	36.7	17.9	91.2
43	Asphalt Plank Wearing Surface	Sq. Ft.		2001	2025	667	4,693
46a	Class "A" Concrete	Cu. Yd.	304				304
46b	Class "B" Concrete	"	67				67
47	Reinforcing Steel	Lb.	19,800				19,800
53b	18" Corrugated Metal Culvert Pipe	Lin. Ft.	236				236
53c	24" "	"	1,842				1,842
53d	30" "	"	102				102
53e	36" "	"	92				92
60a	Treated Timber Piling	Lin. Ft.		2,132	1,320	1,016	4,468
60e	Metal Pile Shoes	Each		74	48	36	158
65	Dry Rubble Slope Paving (18" Thick)	Sq. Yds.		108			108
74	Wire Cable Guard Fence	Lin. Ft.	1,032				1,032
74x	Timber Guard Posts	Each	118				118
76c	Barbed Wire Fence with Metal Posts	Lin. Ft.	101,500				101,500
76g	Barbed Wire Gates	Each	18				18
48	Structural Steel	Lb.				2300	2,300
77	Picket Snow Fence	Lin. Ft.	3,876				3,876
81a	Project Markers	Each	1				1
81b	Right of Way Markers	"	107				107
82	Cattle Guards (16 Ft.)	"	4				4
89b	Drain Pipe (Timber Floor)	"		6	6	2	14
FORCE ACCOUNT ITEMS							
	Obliterating Old Road	Lump Sum	•				•

FENCING REQUIREMENTS

STATION	SIDE	REMOVE FENCE	BUILD B.W. FENCE	GATES	
		LIN. FT.	LIN. FT.	B.W. NO.	D.WY. NO.
742+49	X	170			
743+40	X	170			
847+80	X	145			
1141+35	X	190			
1155+05	X	190			
1162+50	X	300			
1179+00	X	340			
1185+28	X	142			
1191+30	X	370			
0+00-5+14 ("Y" CONN.)	R		425		
716+362-1200+30	R		51,244		
731+942-1200+30	L		49,736		
743+20	L			1	
901+80	L&R			2	
947+10	L&R			2	
957+75	L&R			2	
974+40	L&R			2	
1014+00	L&R			2	
1026+82	L&R			2	
1046+15	L&R			2	
1094+50	R			1	
1116+50	R			1	
1172+50	L			1	
TOTALS		2,017	101,405	18	

TIMBER GUARD POSTS

STATION	SIDE	SPACING	NO.
759+61-760+22	L&R	BRIDGE	10
760+985-761+595	L&R	"	10
802+00	L&R	C.B.C.	8
803+10-804+60	L&R	50 FT.	8
820+50-821+50	L	50 FT.	3
844+58	L&R	C.B.C.	8
876+223-876+833	R	BRIDGE	5
876+392-877+002	L	"	5
877+585-878+195	R	"	5
877+76-878+37	L	"	5
922+00-923+50	L&R	50 FT.	8
1004+00	L&R	C.B.C.	8
1148+24-1148+85	L&R	BRIDGE	10
1149+155-1149+765	L&R	BRIDGE	10
1182+20-1185+20	L	50 FT.	7
1182+50-1184+50	R	50 FT.	5
1215+40-1216+40	L	50 FT.	3
TOTAL			118

LIST OF STRUCTURES

LOCATION	DESCRIPTION	REMOVE STRUCT. NO.	GRAVEL SURF. APPRS. TONS	EXCAVATION		STRUCTURAL EXCAVATION CU. YD.	CONCRETE		REINF. STEEL LBS.	CORRUGATED METAL CULVERT PIPE		16-FT. PICKET CATTLE SNOW GUARD FENCE NO.	MISCELLANEOUS
				UNCL. CU. YD.	EMB.		CL. A CU. YD.	CL. B		LIN. FT.	LIN. FT.		
✓ 1+60 ✓ 1+60-2+60	C.M.P. Cross Culvert, Intercept. Hdwl. Drain Ditch on Left			35		10		1.60		46			
✓ 718+872 ✓ 720+00 ✓ 727+00 ✓ 742+22	Project Marker C.M.P. Cross Culv. (Sk. 80° Rt.), No Hdwl. " " " " (Sk. 60° Lt.) & Ditches Road Appr. & Cattle Guard on Left							1.65		34			Project Marker ø 1-24" Conn. Band
✓ 743+20 ✓ 748+00 ✓ 760-252-760-955 ✓ 760-00-761+00 ✓ 760-95-762+00	C.M.P. Cross Culvert Bridge Channel Improvement, Left & Right Drain Ditch on Right	(See Summary of Quantities)	20	5	185	10		1.65		56			
✓ 764+50-769+50 ✓ 765+50-769+70 ✓ 771+15 ✓ 777+00	Intercepting Ditch on Right Picket Snow Fence on Left C.M.P. Cross Culvert & Inlet " " " "			25		85	71.8	1.65	4611	52		306 (3 pcs. @ 102')	
✓ 802+00 ✓ 810+00-814+35 ✓ 811+50-819+00 ✓ 812+50-818+50 ✓ 825+85	6'x7'x36' Concrete Box Culvert Picket Snow Fence on Left Remove Railroad Ties Intercepting Ditch on Right C.M.P. Cross Culvert & Ditches			5		120		1.65		50			(4 pcs. @ 102') Rem. R.R. Ties
✓ 826+00-830+00 ✓ 828+00-831+20 ✓ 837+00 ✓ 844+58 ✓ 861+00 ✓ 876+52-877+643	Intercepting Ditch on Right Picket Snow Fence on Left C.M.P. Cross Culvert & Ditches 6'x7'x37' Conc. Box Culv. & Ditches C.M.P. Cross Culvert & Ditches " " " " Bridge			30		15		1.65		50			(3 pcs. @ 102')
✓ 888+00 ✓ 889+25-891+25 ✓ 898+00-901+00 ✓ 899+00 ✓ 901+80 ✓ 902+00-909+00 ✓ 912+20 ✓ 913+48-919+60 ✓ 913+50-914+75 ✓ 923+00 ✓ 923+00-925+00	C.M.P. Cross Culvert & Outlet Picket Snow Fence on Left Remove Railroad Ties on Lt. & Rt. C.M.P. Cross Culvert & Ditches Drain Ditch on Left Rd. Apprs. Lt. & Rt., Side Drain Rt. Intercepting Ditches on Right C.M.P. Cross Culvert Double Picket Snow Fence on Left Intercepting Ditch on Left C.M.P. Cross Culvert Drain Ditch on Right		20	25	150	35		1.65		64			(2 pcs. @ 102') Rem. R.R. Ties
✓ 931+20-935+20 ✓ 946+50 ✓ 952+15-955+15 ✓ 956+75 ✓ 957+75 ✓ 966+90 ✓ 974+40 ✓ 978+20 ✓ 993+10 ✓ 1004+00	Picket Snow Fence on Left C.M.P. Cross Culvert & Outlet Picket Snow Fence on Left C.M.P. Cross Culvert Road Approaches on Left & Right C.M.P. Cross Culvert & Outlet Rd. Apprs. Lt. & Rt., Side Drain Rt. C.M.P. Cross Culvert & Inlet " " " " 6'x7'x36' Concrete Box Culvert			5		5		1.65		52		408 (4 pcs. @ 102')	
✓ 1018+00 ✓ 1026+82 ✓ 1037+00 ✓ 1046+15 ✓ 1065+00 ✓ 1065+00-1066+50 ✓ 1074+00 ✓ 1082+00 ✓ 1094+25	C.M.P. Cross Culvert & Ditches Rd. Apprs. Lt. & Rt., Side Drain Rt. C.M.P. Cross Culvert & Ditches Rd. Apprs. & Side Drains, Lt. & Rt. C.M.P. Cross Culvert Drain Ditch on Right C.M.P. Cross Culvert & Ditches " " " " Rd. Appr. & Cattle Guard on Right		20	5	120	20		1.65		46			
✓ 1090+00-1091+00 ✓ 1091+00 ✓ 1105+00-1107+00 ✓ 1109+00-1113+50 ✓ 1112+30-1114+30 ✓ 1116+50 ✓ 1129+15 ✓ 1136+00 ✓ 1141+00	Drain Ditch on Right C.M.P. Cross Culvert & Outlet Drain Ditch on Left Intercepting Ditch on Right Picket Snow Fence on Left Rd. Appr., Sd. Drn. & Cattle Guard, Right C.M.P. Cross Culvert " " " " & Outlet " " " "		20	100		5		1.65		48		204 (2 pcs. @ 102')	
✓ 1148+882-1149+125	Bridge	(See Summary of Quantities)											
✓ 1155+75 ✓ 1160+00 ✓ 1169+80 ✓ 1172+50 ✓ 1176+75 ✓ 1178+10 ✓ 1178+50-1182+30 ✓ 1179+25-1181+30	C.M.P. Cross Culvert & Ditches " " " " Outlet " " " " Rd. Appr. & Cattle Guard on Left C.M.P. Cross Culvert " " " " Intercepting Ditches on Right Picket Snow Fence on Left		10	20		5		1.65		46			(2 pcs. @ 102')
✓ 1183+00 ✓ 1185+50-1190+00 ✓ 1186+00-1189+20 ✓ 1190+00 ✓ 1197+60 ✓ 1205+00 ✓ 1215+50 ✓ 1218+60	6'x7'x53' Concrete Box Culvert Intercepting Ditches on Right Picket Snow Fence on Left C.M.P. Cross Culvert & Inlet " " " " " " " " " " " " " " " "			25		70	87.5	5891				306 (3 pcs. @ 102')	
"Y" CONNECTION TOTALS													
ROADWAY TOTALS													
PROJECT TOTALS													

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

* Included for Payment in Profile Quantities.

* Connecting Bands to be Included in Prices. Bid for Corrugated Metal Culvert Pipe.

R.O.W. MARKERS		
STATION	SIDE	NO.
"Y" CONNECTION 0+00 5+15	R R	1 1
ROADWAY		
716+36	R	2
741+00	L & R	3
752+00	L	2
757+00	R	2
768+10	L & R	2
770+00	L	2
781+95	L	1
785+00	R	2
789+40	R	1
792+00	L & R	4
795+22	L & R	2
799+00	L	2
809+00	L	2
821+40	L & R	2
832+00	R	2
847+95	L & R	2
867+70	L & R	2
880+00	R	2
883+80	L & R	2
893+00	L & R	4
907+55	L & R	2
920+00	L & R	2
929+00	L & R	4
944+70	L & R	2
955+00	L & R	4
958+85	L & R	2
976+55	L & R	2
995+25	L & R	4
1004+60	L & R	2
1011+70	L & R	2
1044+55	L & R	2
1047+90	L & R	2
1062+00	L & R	4
1082+40	L & R	2
1085+75	R	1
1089+85	L	1
1094+00	L & R	4
1110+70	L & R	2
1122+45	R	2
1128+00	L	2
1141+35	L & R	2
1162+60	L & R	2
1170+60	L & R	4
1198+15	L & R	4
1200+30	L & R	2
"Y" CONNECTION TOTAL		2
ROADWAY TOTAL		105
PROJECT TOTAL		107

GUARD FENCE		
STATION TO STATION	SIDE	LIN. FT.
"Y" CONNECTION 2+00-5+12	L	312
ROADWAY		
1205+42-1209+50	L	408
1217+88-1221+00	L	312
"Y" CONNECTION TOTAL		312
ROADWAY TOTAL		720
PROJECT TOTAL		1032

All poles encroaching on Right of Way are to be removed by owners. Fencing and Number Guard signs requirements are tabulated on sheet No. 2.
Right of Way Markers and evidence are tabulated on sheet No. 3.
Grades and Alignment as shown hereon are subject to modification during construction only after approval of Denver Office.

NE 1/4 Sec 14
T 13 S R 77 W

END OF "Y" CONNECTION
STA 6+16.2

PI Sta 732+624 =
POT FAP 54-E

PT Y Conn Sta 7+05.3 BK =
POT Sta 732+56.4 AN FAP 54 E

PC Y Conn Sta 0+00.0 =
POC Sta 731+94.9 BK FAP 158 E #1

BEG "Y" CONNECTION
STA 00+84.2

Survey FAP 54 E
1+60 (Y Connection) ~
Reqd 24"x46" C.M.P. Cross
Culvert with Intercepting
Headwall
1+60 to 2+60 (Y Connection) ~ Req'd
35 Cu Yds Exc for Drain Ditch on Lt

727+00 ~ Req'd
24"x56" C.M.P.
Cross Culvert

Δ 70°43' R
D 2°30'
T 1626.4
L 2828.7
R 2292.9

742+22 ~ Req'd 24"x80
C.M.P. Cross Culvert (Skew
60 Lt) Also 5 Cu Yds
Exc for Ditches

813.5' to Sec Corner
360' Back of PT & on Semi tangent

NW 1/4 Sec 13
T 13 S R 77 W

743+20 ~ Req'd 185
Cu Yds Emb for Road
Approach on Left Also
1-16 ft Cattle Guard on Lt

COCHETOPA NAT L FOREST
BDY

TO Buena Vista

STA 718+87.9 BEGINNING OF
FAP-158-E CONSTR DIV #1

CLEARING & GRUBBING
Sta 716+36 to 720+00 ~ Old Stumps
and Scattered Dead Timber

PC Sta 716+36.2 = FAP 158-E #1 =
POT Sta 716+36.2 FAP 54-E

PI 1901

Sta 731+94.9 Y Connection
= POC 731+94.9 FAP 158 E #1

PT Sta 744+64.2

PROFILE OF "Y" CONNECTION

EMBANK
EMB FACTOR
EMB FACTOR
BORROW
OVERHAUL
BORR SOURCE

4715 CU YDS BORR TO BE OBTAINED WITHIN ROW

3902.9 STA 103 & 6 Yds M
2241.00-7311.00, ONLY OF Proj FAP 54-E

1600 CU YDS BORR TO BE OBTAINED WITHIN ROW BETWEEN STA 722+00 & 727+00

4000 CU YDS BORR TO BE OBTAINED WITHIN ROW BETWEEN STA 727+00 & 731+00

4000 CU YDS BORR TO BE OBTAINED WITHIN ROW BETWEEN STA 731+00 & 738+00

NW 1/4 Sec. 13
13 S R 77 W

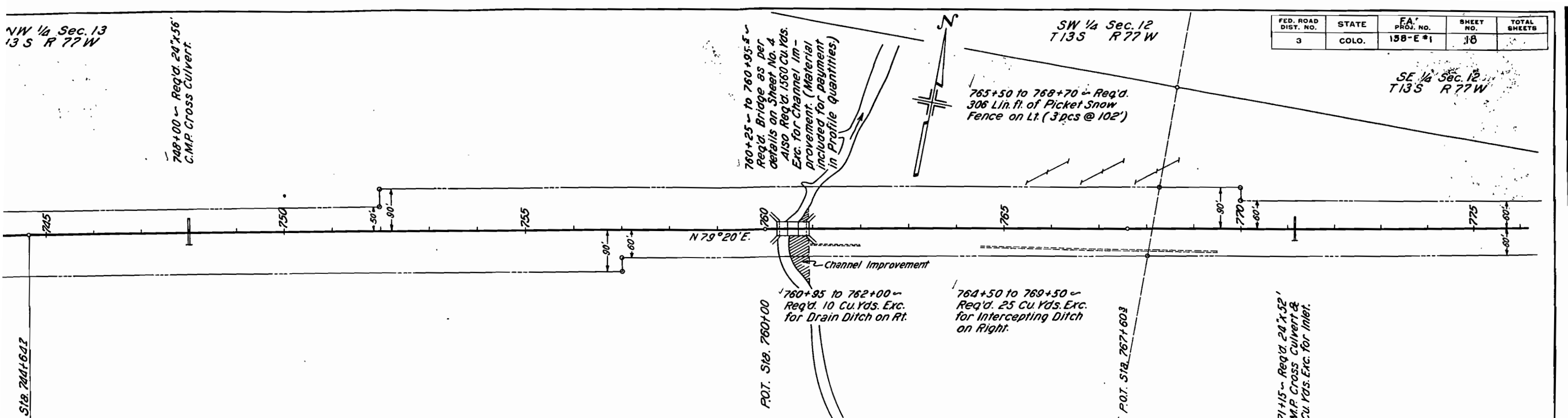
748+00 ~ Req'd. 24'x56'
C.M.P. Cross Culvert.

SW 1/4 Sec. 12
T13S R77W

FED. ROAD DIST. NO.	STATE	FA PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	158-E #1	18	

SE 1/4 Sec. 12
T13S R77W

P.T. Sta. 744+64.2



STRUCTURE NOTES FOR BRIDGE STA. 760+25 TO
STA. 760+95.5 STRUCTURE NO. I-13-6

PRESENT STRUCTURE:

SPAN -

CLEAR ROADWAY -

TYPE OF SUPERSTRUCTURE -

TYPE OF SUBSTRUCTURE -

REQUIREMENTS AS TO REMOVAL -

STREAM DATA:

DRAINAGE AREA -

VELOCITY DURING HIGH WATER -

ELEVATION OF -

MAXIMUM HIGH WATER -

LOW WATER -

NORMAL STAGE -

DRIFT -

PROPOSED STRUCTURE:

POSITION REFERRED TO PRESENT STRUCTURE -

SPAN -

CLEAR ROADWAY -

TYPE OF SUPERSTRUCTURE -

TYPE OF SUBSTRUCTURE -

REQUIREMENTS AS TO REMOVAL -

DETOUR STRUCTURE REQUIREMENTS -

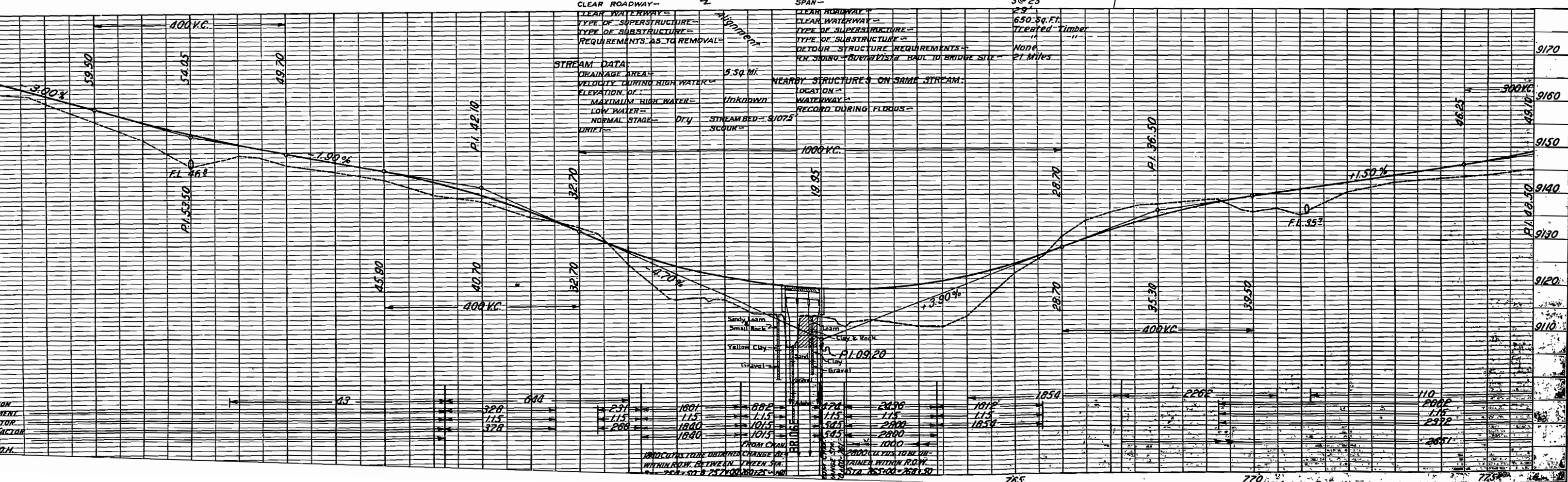
RR. SPONG -

NEARBY STRUCTURES ON SAME STREAM:

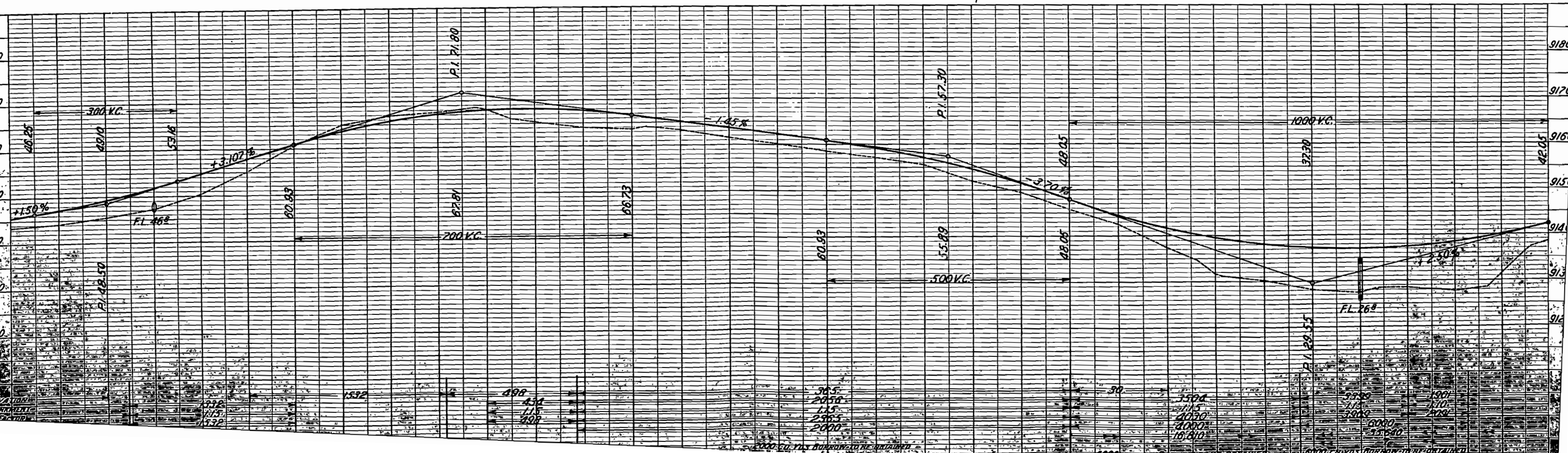
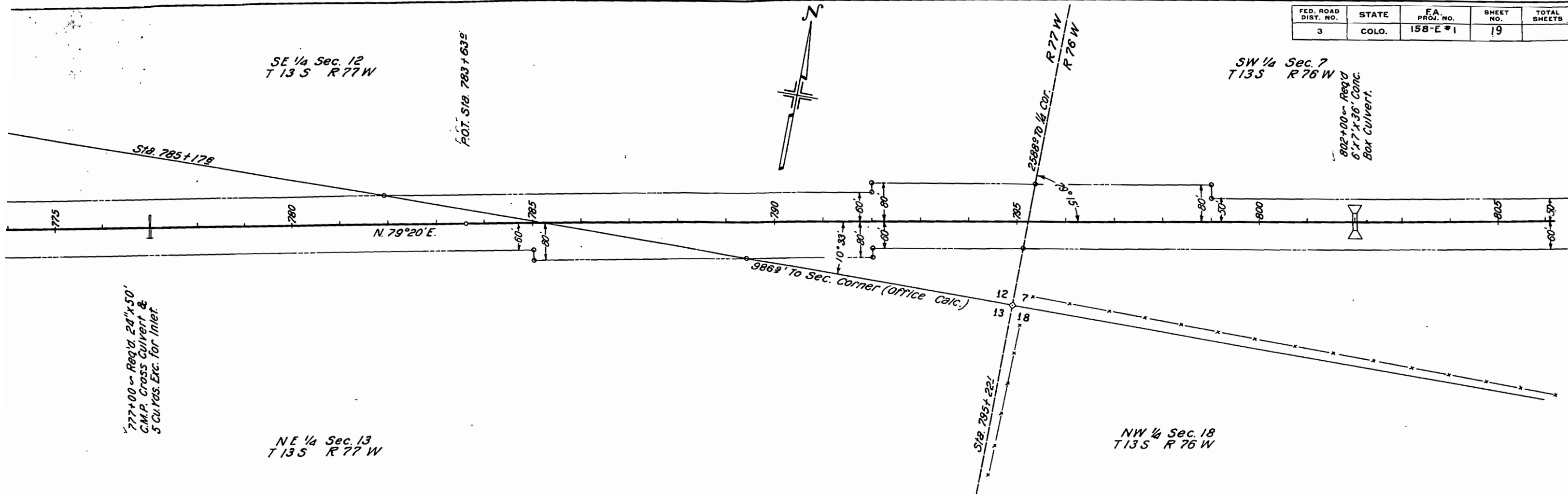
LOCATION -

WATERWAY -

RECORD DURING FLOODS -



FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	158-E #1	19	



FED. ROAD DIST. NO.	STATE	FA PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	158-E *1	20	

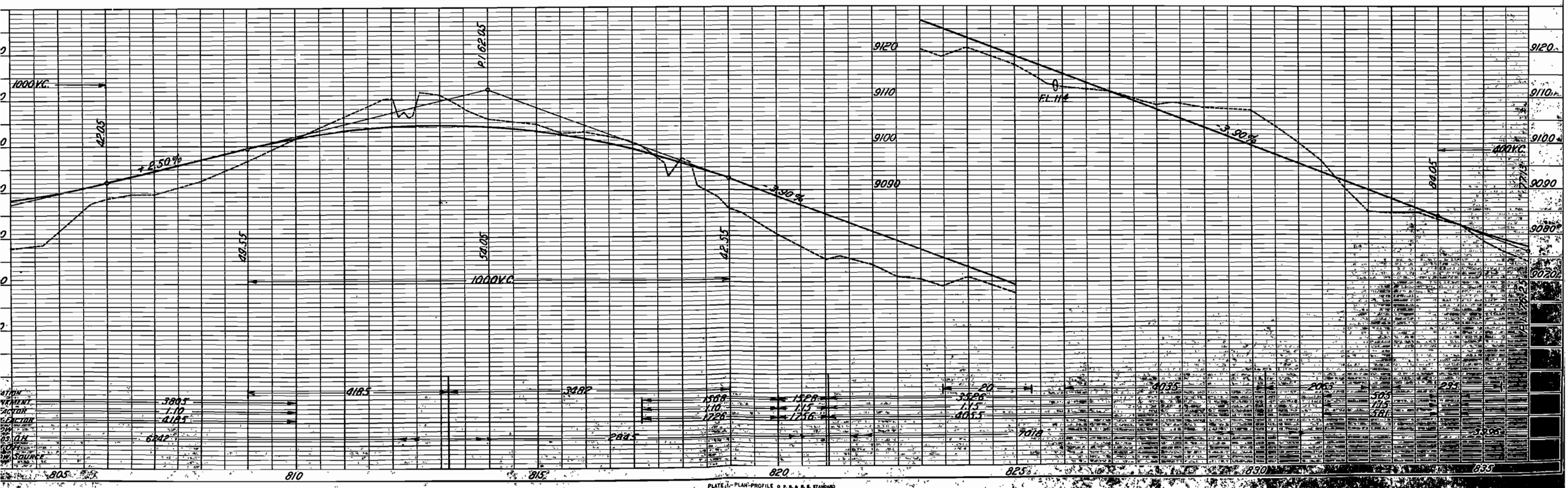
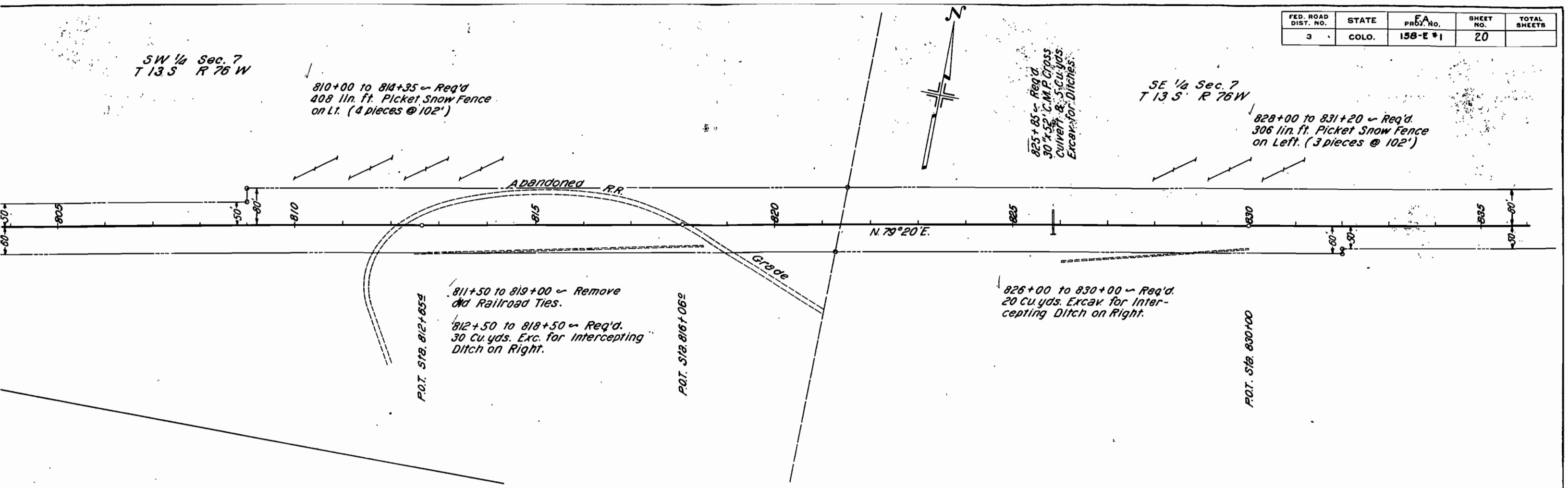
SW 1/4 Sec. 7
T 13 S R 76 W

810+00 to 814+35 ~ Req'd
408 lin. ft. Picket Snow Fence
on Lt. (4 pieces @ 102')

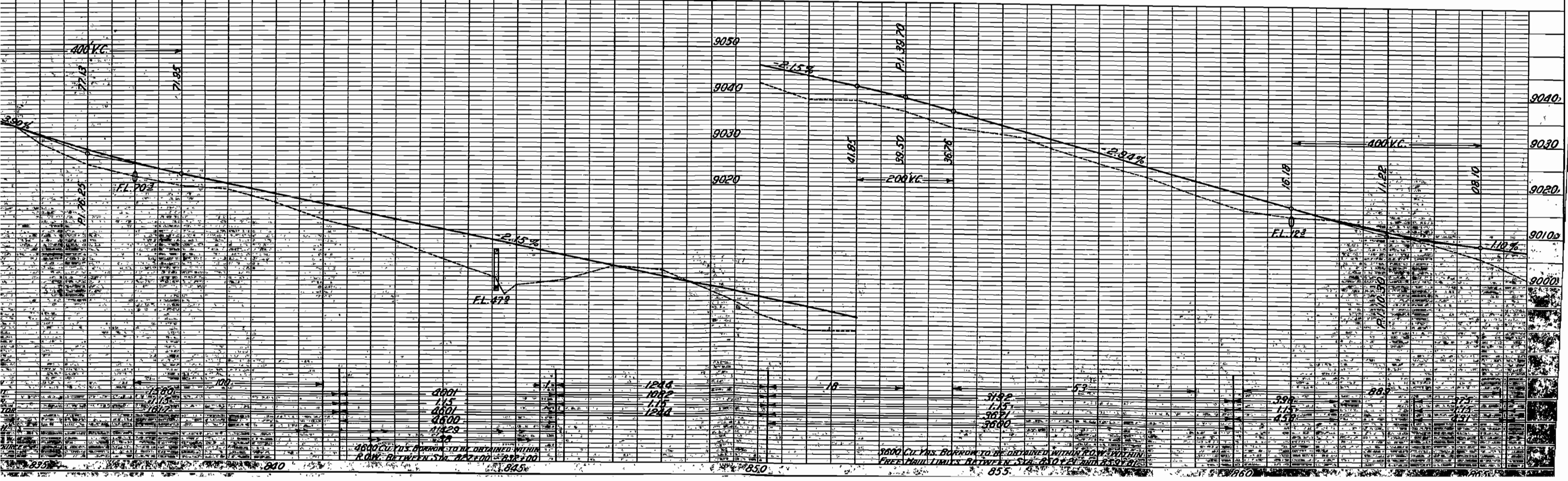
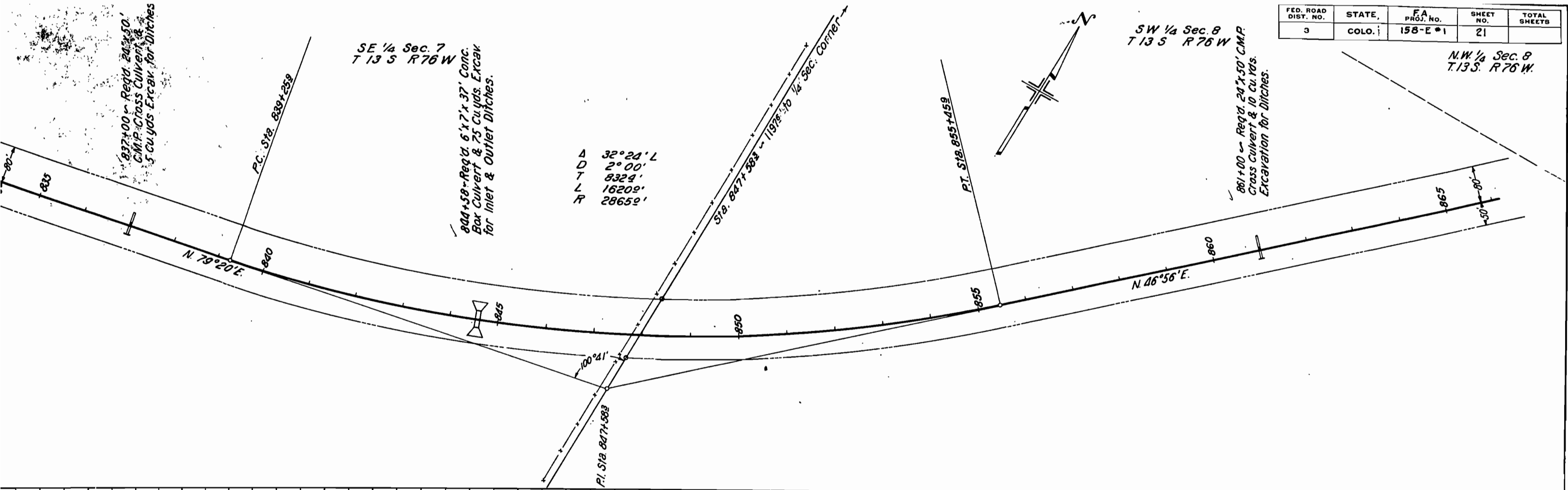
SE 1/4 Sec. 7
T 13 S R 76 W

828+00 to 831+20 ~ Req'd.
306 lin. ft. Picket Snow Fence
on Left. (3 pieces @ 102')

825+85 ~ Req'd
30"x52" C.M.P. Cross
Culvert & 5 Cu. yds.
Excav. for Ditches.



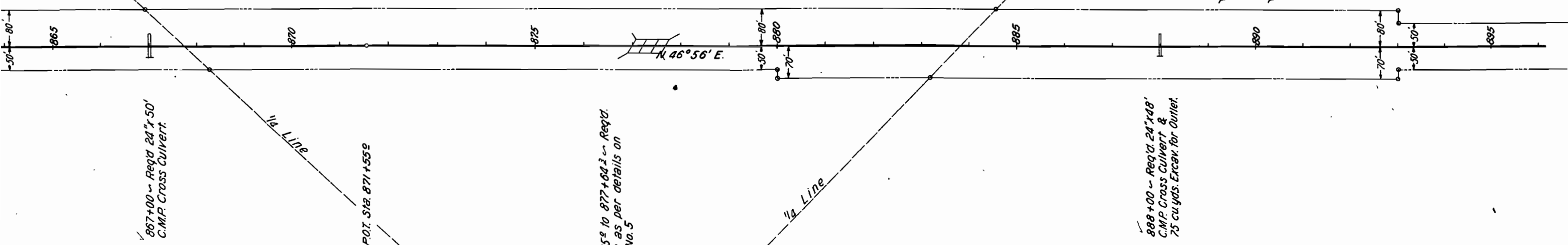
FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	158-E*1	21	



NW 1/4 Sec. 8
T13 S R76 W

NE 1/4 Sec. 8
T13 S R76 W

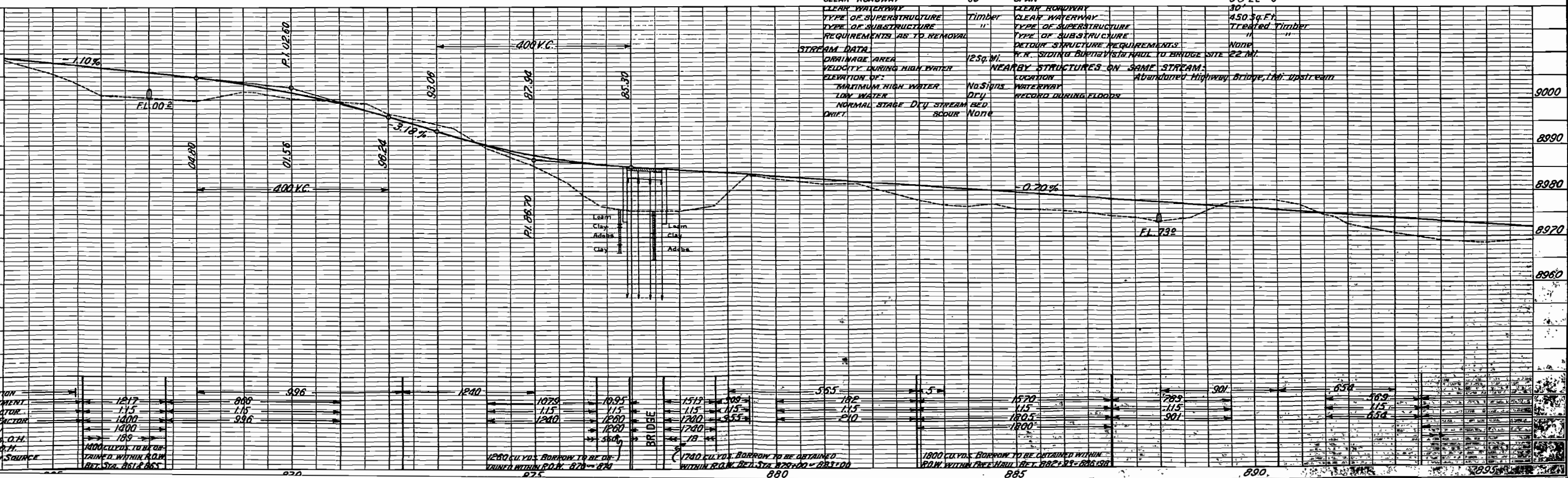
889+25 to 891+25 - Req'd.
200 lin. ft. of Picket Snow
Fence on Lt. (2 pcs. @ 102')



SW 1/4 Sec. 8
T13 S R76 W

**STRUCTURE NOTES FOR BRIDGE - STA. 876+95 TO
STA. 877+64 1/2 STRUCTURE NO. I-13-H**

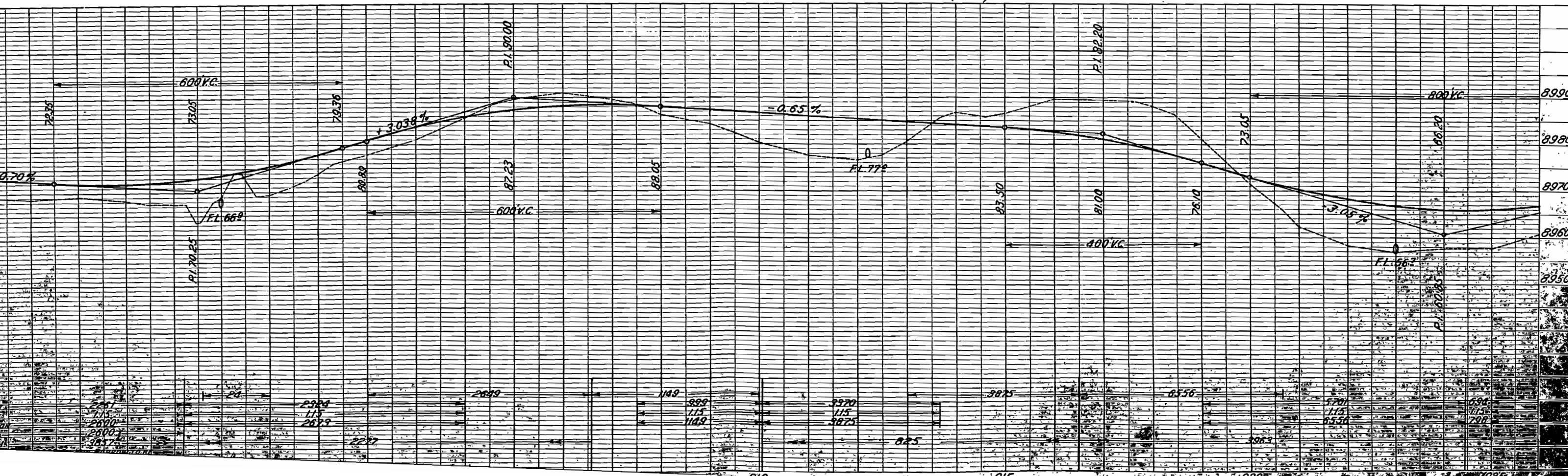
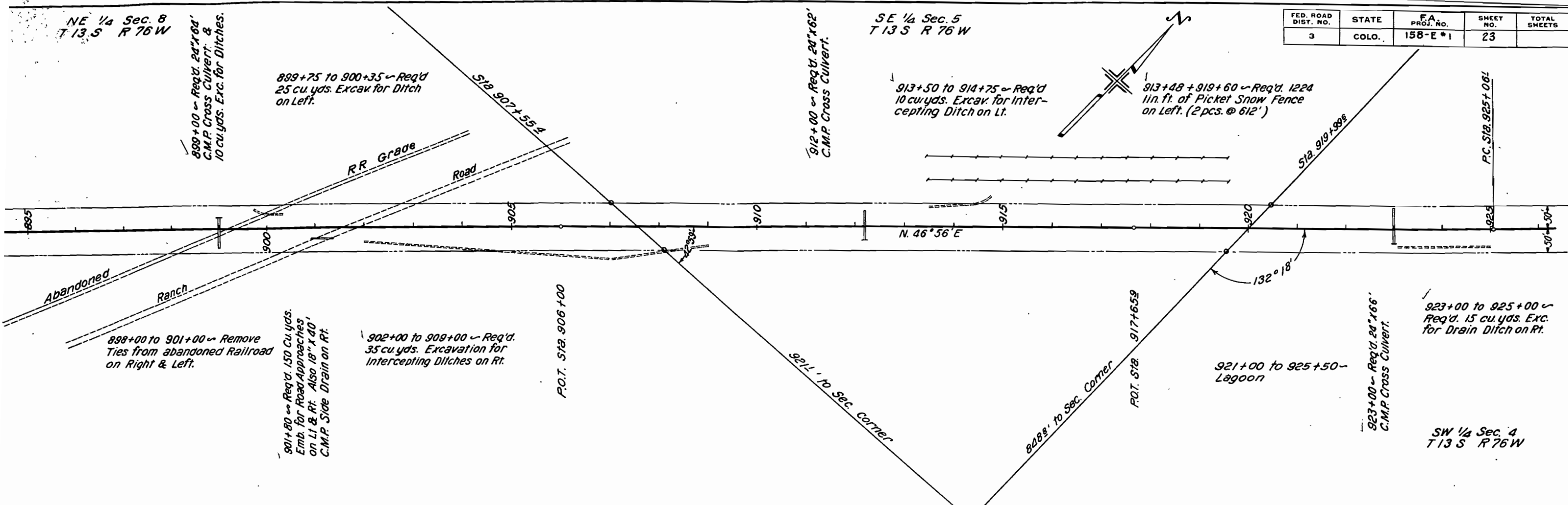
PRESENT STRUCTURE:		PROPOSED STRUCTURE:	
SPAN	30'	POSITION REFERRED TO PRESENT STRUCTURE	1 Mi. Downstream
CLEAR ROADWAY	30'	SPAN	30' 22'-6"
CLEAR WATERWAY		CLEAR WATERWAY	450 Sq. Ft.
TYPE OF SUPERSTRUCTURE	Timber	TYPE OF SUPERSTRUCTURE	Treated Timber
TYPE OF SUBSTRUCTURE	"	TYPE OF SUBSTRUCTURE	"
REQUIREMENTS AS TO REMOVAL		REQUIREMENTS AS TO REMOVAL	None
STREAM DATA		NEARBY STRUCTURES ON SAME STREAM:	Abandoned Highway Bridge, 1 mi. upstream
DRAINAGE AREA	125 sq. mi.	LOCATION	Abandoned Highway Bridge, 1 mi. upstream
VELOCITY DURING HIGH WATER		RECORD DURING FLOODS	
ELEVATION OF:			
MAXIMUM HIGH WATER	No Signs		
LOW WATER	Dry		
NORMAL STAGE DRY STREAM BED			
DRIFT	SCOUR		



NE 1/4 Sec. 8
T 13 S R 76 W

SE 1/4 Sec. 5
T 13 S R 76 W

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	158-E*1	23	



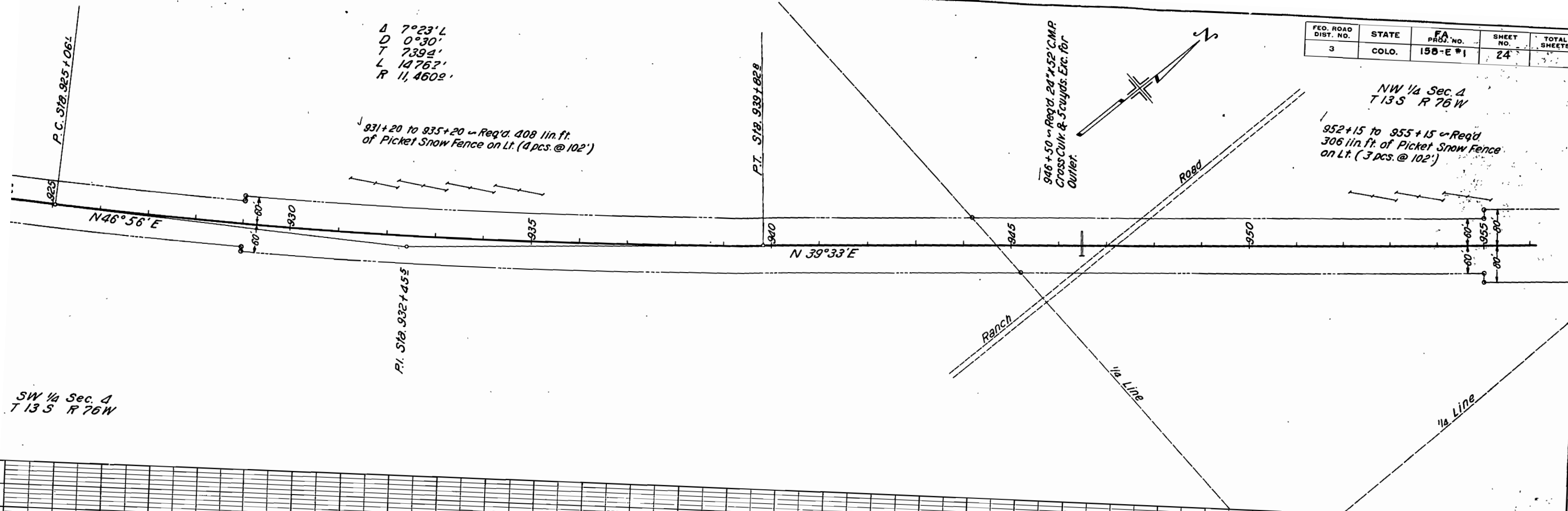
FED. ROAD DIST. NO.	STATE	FA PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	158-E #1	24	

Δ 7°23' L
 D 0°30'
 T 7394'
 L 14762'
 R 11,4602'

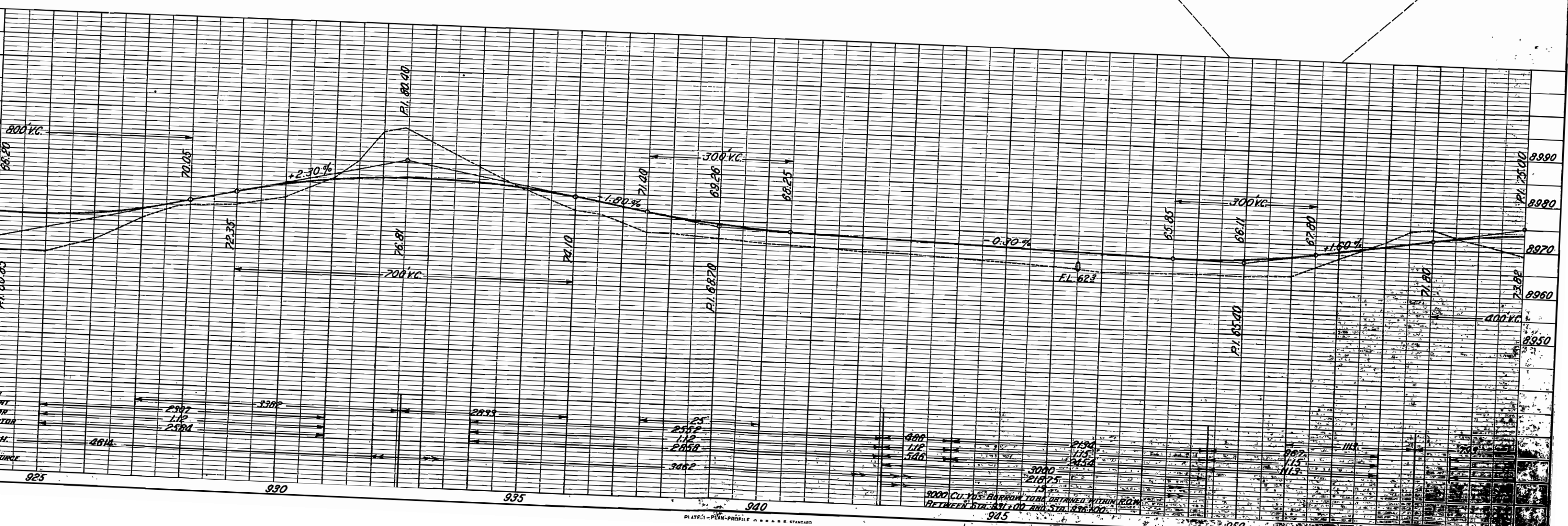
931+20 to 935+20 ~ Req'd 408 lin. ft.
 of Picket Snow Fence on Lt. (4 pcs. @ 102')

946+50 ~ Req'd 24"x52" C.M.P.
 Cross Culvert & 5 cu yds. Exc. for
 Outlet.

NW 1/4 Sec. 4
 T 13 S R 76 W
 952+15 to 955+15 ~ Req'd
 306 lin. ft. of Picket Snow Fence
 on Lt. (3 pcs. @ 102')



SW 1/4 Sec. 4
 T 13 S R 76 W

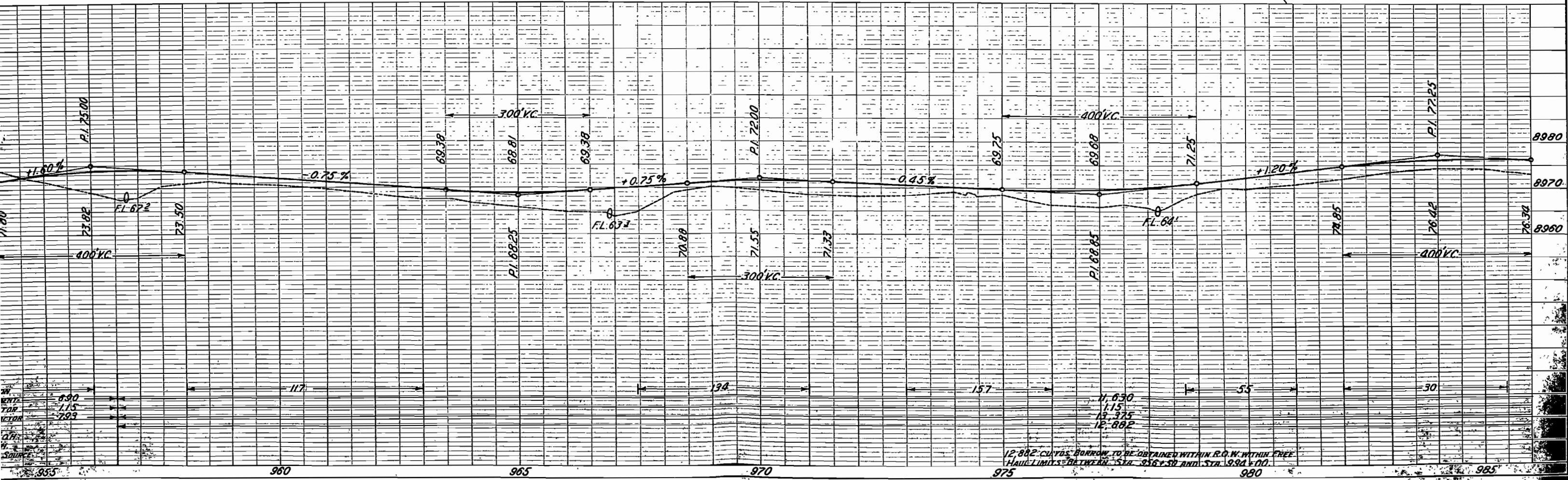
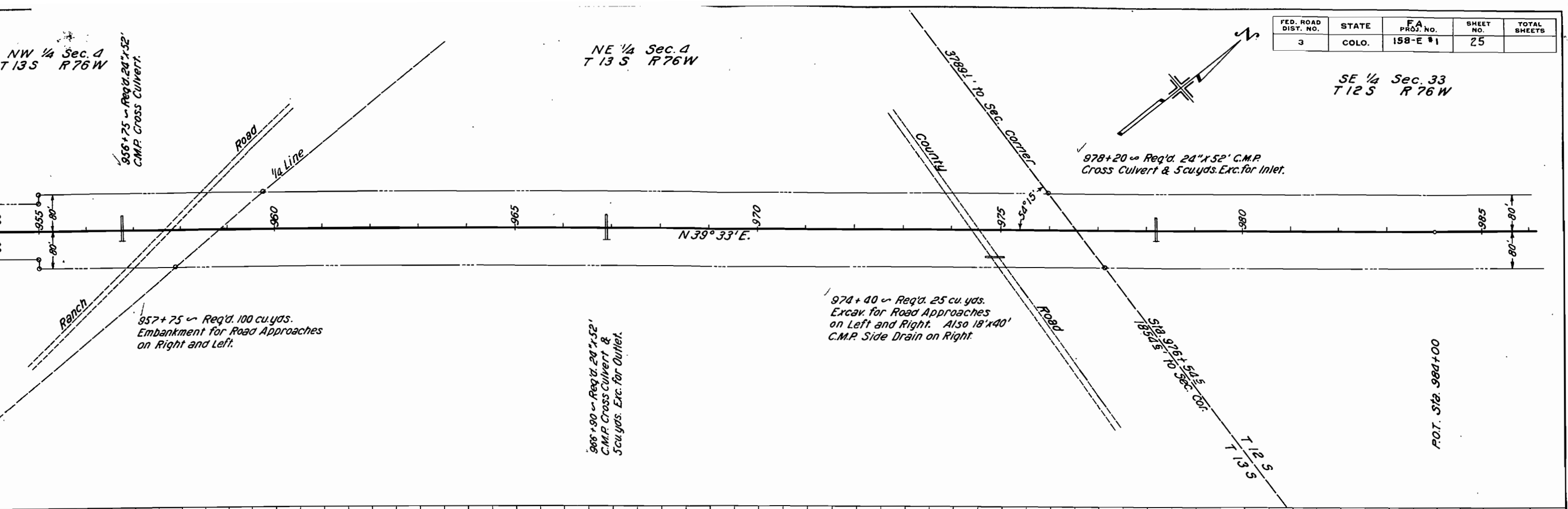


NW 1/4 Sec. 4
T 13 S R 76 W

NE 1/4 Sec. 4
T 13 S R 76 W

FED. ROAD DIST. NO.	STATE	FA PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	158-E #1	25	

SE 1/4 Sec. 33
T 12 S R 76 W



SE 1/4 Sec. 33
T 12 S R 76 W

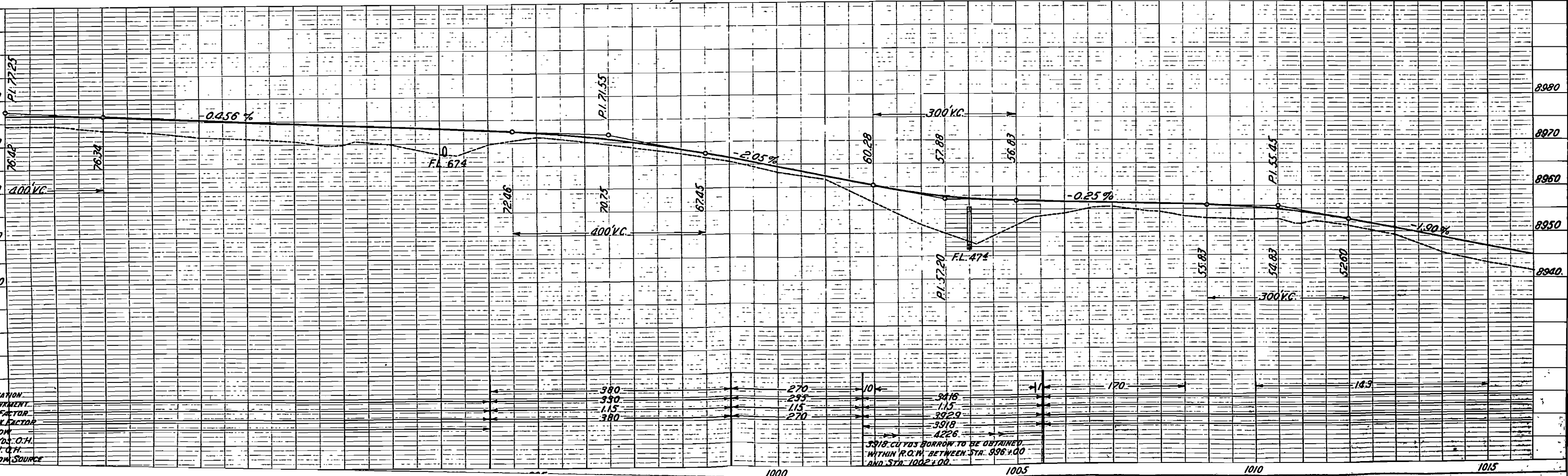
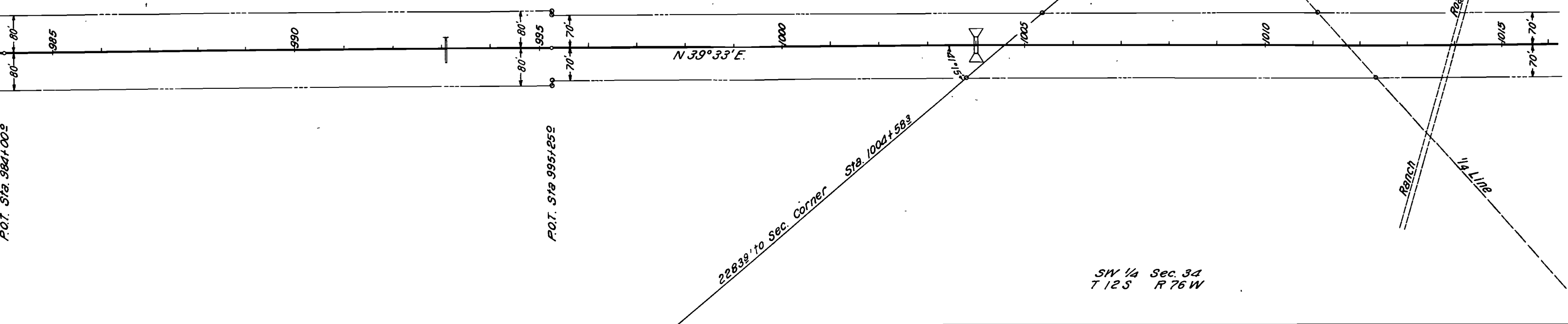
983+10 ~ Req'd. 24"x54"
C.M.P. Cross Culvert.

1004+00 ~ Req'd.
6"x7"x36" Conc. Box Culv.

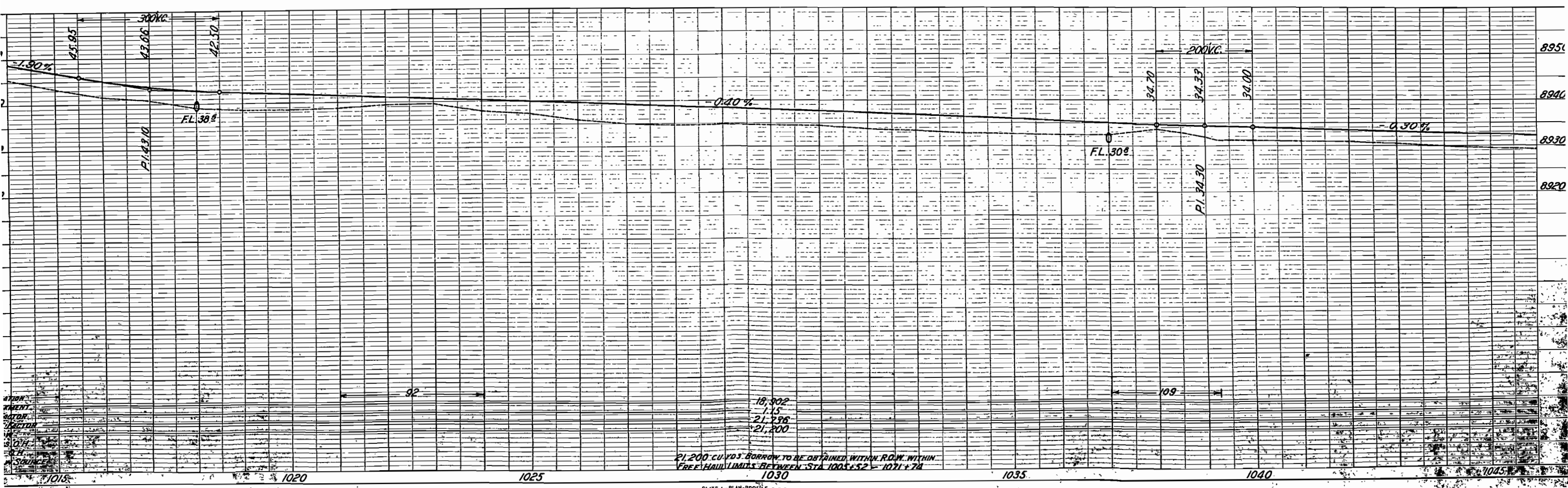
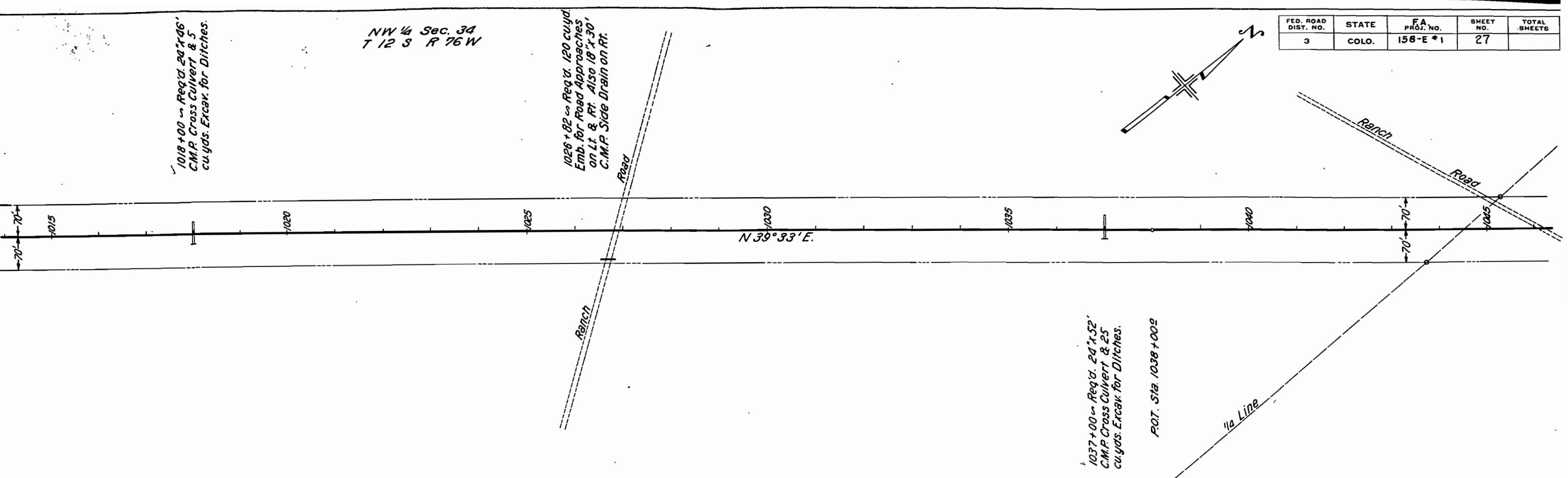
33,598' to Sec. Corner

NW 1/4 Sec. 34
T 12 S R 76 W

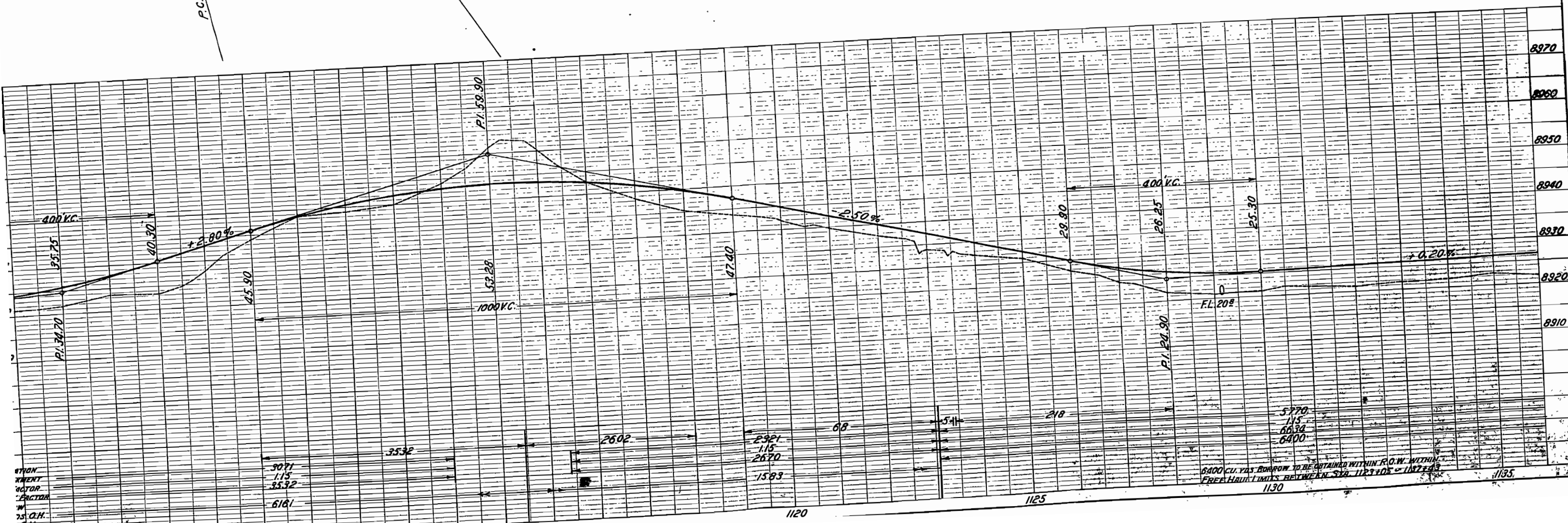
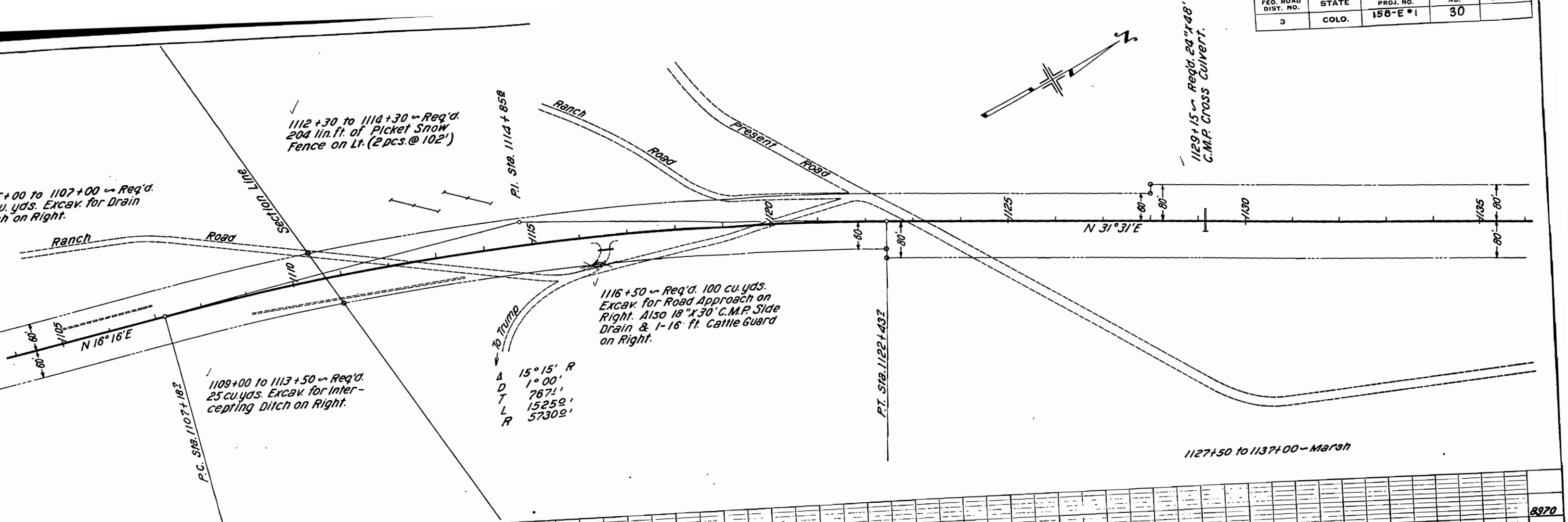
FED. ROAD DIST. NO.	STATE	FA. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	158-E #1	26	



FED. ROAD DIST. NO.	STATE	FA PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	158-E #1	27	



FED. ROAD DIST. NO.	STATE	PROJ. NO.	NO.
3	COLO.	158-E*1	30



SW 1/4 Sec. 23
T 12 S R 76 W

NW 1/4 Sec. 23
T 12 S R 76 W

FED. ROAD DIST. NO.	STATE	FA PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	158-E*1	31	

Revised by RMA 10-15-37 Present Str shown removed

1136+00 ~ Req'd. 24"x48'
C.M.P. Cross Culvert &
5 cu. yds. Excav. for Outlet.

1141+00 ~ Req'd. 30"x50'
C.M.P. Cross Culvert.

P.O.T. Sta 1146+663

1148+88 ~ 1149+125 ~
Req'd. Bridge as per
details on Sheet No. 6

1160+00 ~ Req'd. 24"x48'
C.M.P. Cross Culvert &
5 cu. yds. Exc. for Outlet.

P.C. Sta 1163+582

1155+75 ~ Req'd. 24"x50'
C.M.P. Cross Culvert & 10
cu. yds. Excav. for Ditches.

STRUCTURE NOTES FOR BRIDGE ~ STA. 1148+88⁰
TO STA. 1149+125 STRUCTURE No I-13-I

PRESENT STRUCTURE:

- SPAN
- CLEAR ROADWAY
- CLEAR WATERWAY
- TYPE OF SUPERSTRUCTURE
- TYPE OF SUBSTRUCTURE
- REQUIREMENTS AS TO REMOVAL

PROPOSED STRUCTURE:

- POSITION REFERRED TO PRES. STR.
- SPAN
- CLEAR ROADWAY
- CLEAR WATERWAY
- TYPE OF SUPERSTRUCTURE
- TYPE OF SUBSTRUCTURE
- DETOUR STRUCTURE REQUIREMENTS None
- R.R. SIDING Buena Vista HAUL TO BRIDGE SITE 22 Mi.

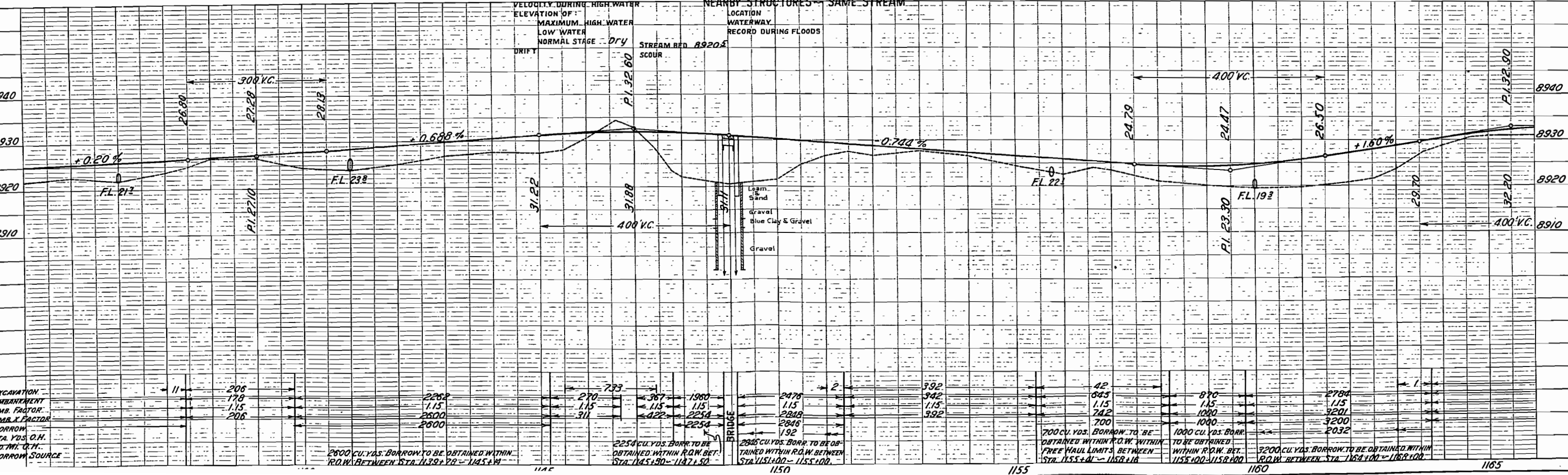
1 @ 23'
29'
185 Sq. Ft.
Treated Timber
" " " " " "

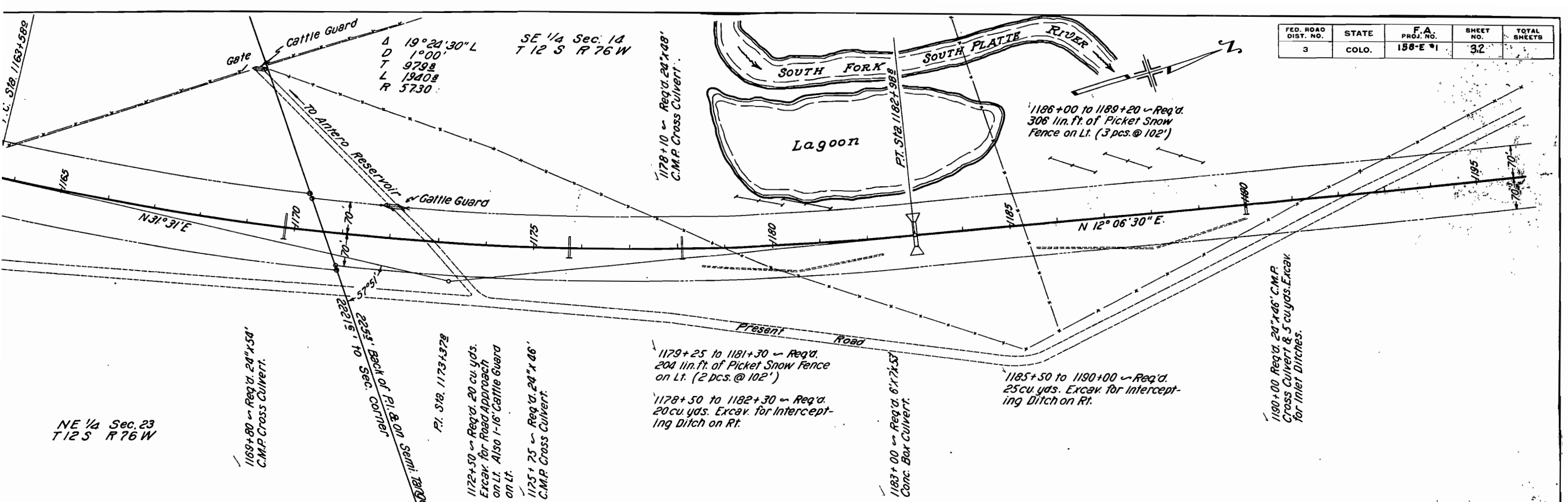
STREAM DATA:

- DRAINAGE AREA IN SQ. MI. 100
- VELOCITY DURING HIGH WATER
- ELEVATION OF:
 - MAXIMUM HIGH WATER
 - LOW WATER
 - NORMAL STAGE Dry
- DRIFT
- SCOUR

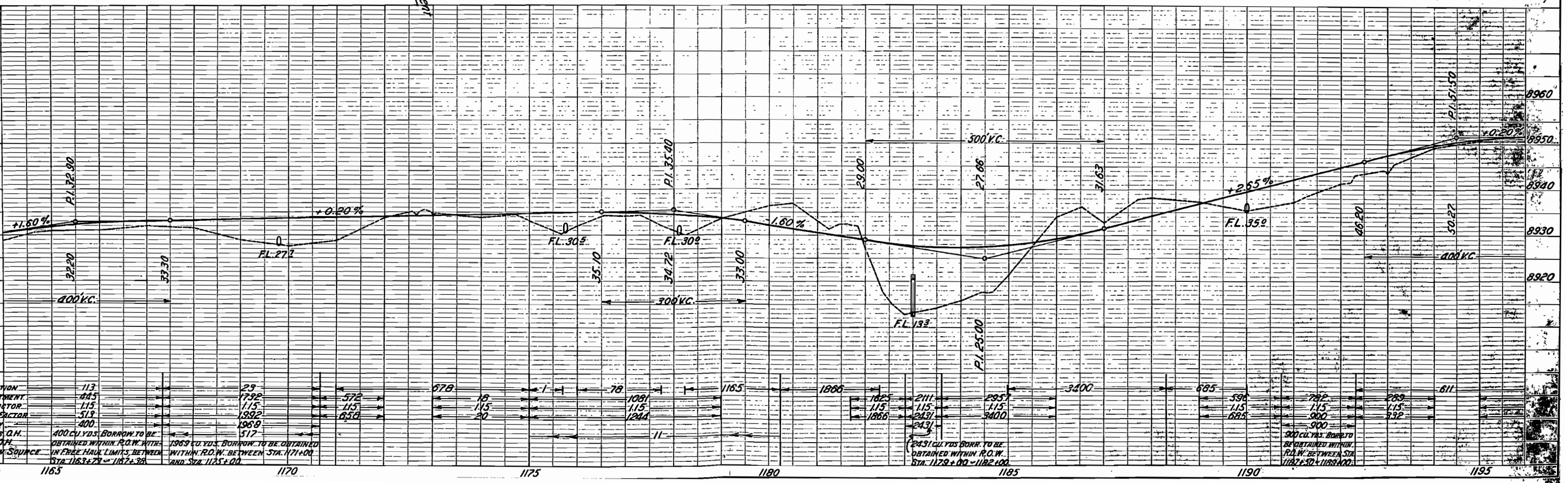
NEARBY STRUCTURES ~ SAME STREAM

- LOCATION
- WATERWAY
- RECORD DURING FLOODS

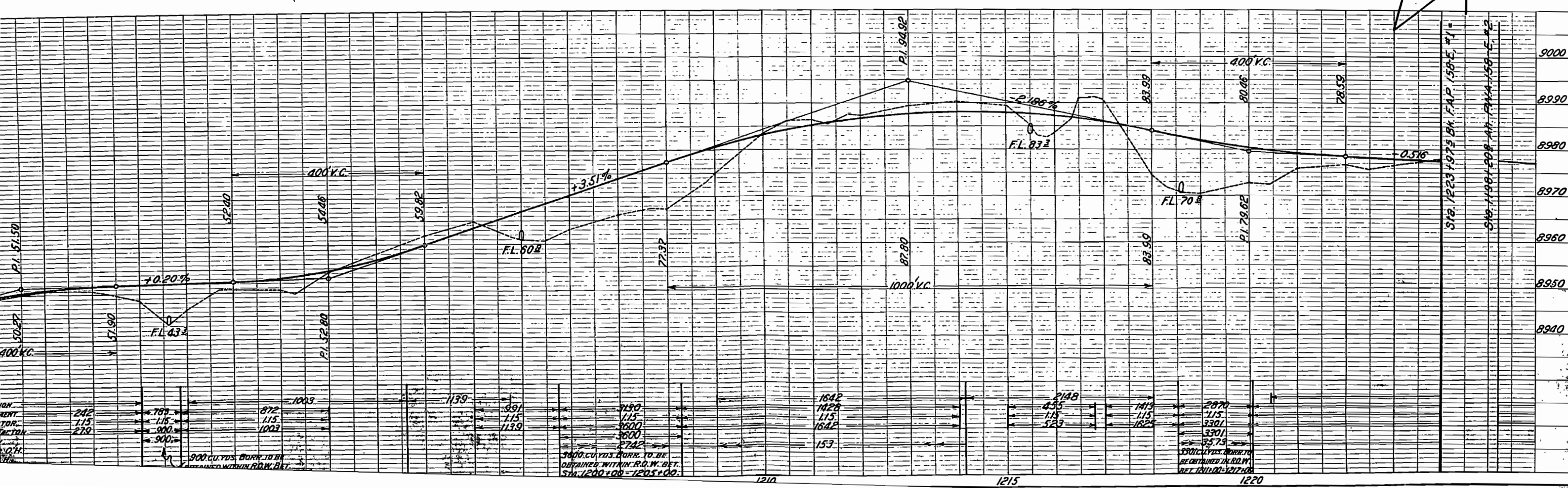
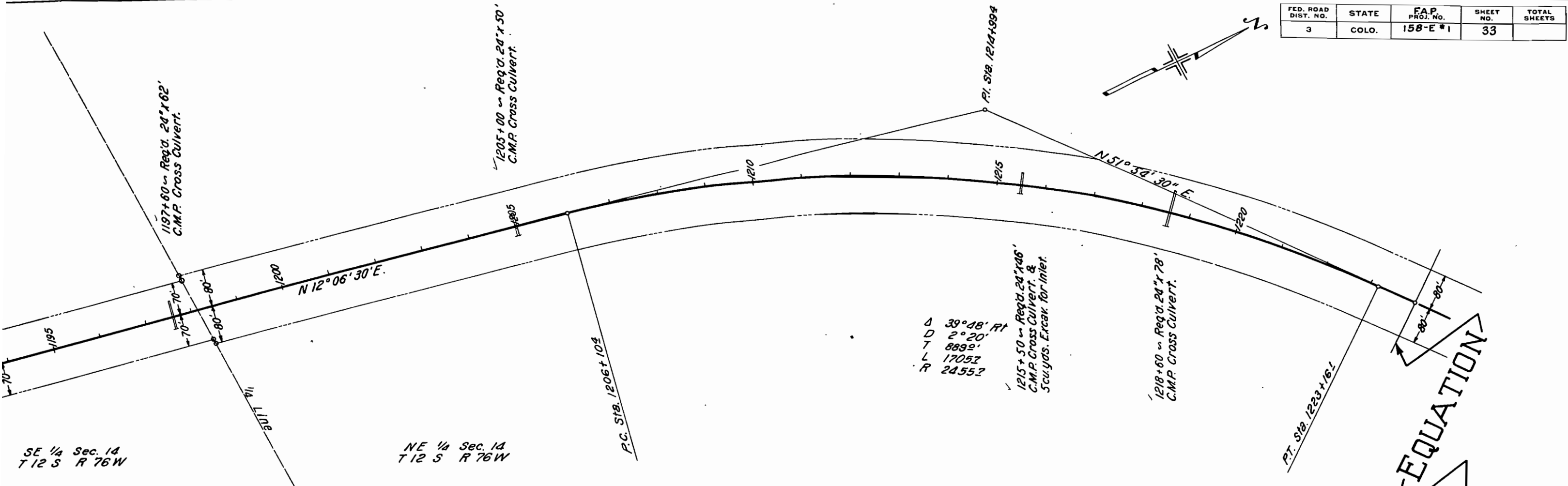




FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	158-E #1	32	



FED. ROAD DIST. NO.	STATE	F.A.P. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	158-E #1	33	



FED. ROAD DIST. NO.	STATE	F.A.P. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	158-E,*1	34	

