

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	182-A(2)	1	

REV. 3-1-41 LENGTH AS CONSTRUCTED W.W.H.

INDEX OF SHEETS

1. SKETCH MAP AND TITLE SHEET
2. TYPICAL SECTION AND SUMMARY OF APPROXIMATE QUANTITIES
- 3-4. LIST OF STRUCTURES
5. MISCELLANEOUS QUANTITIES
6. EXCAVATION REQUIREMENTS STA. 252+07 TO 256+84
7. DETAILS OF RETAINING WALL STA. 204+
8. " " " WALLS STA'S. 223+, 230+ AND 233+
9. " " " METAL CRIBBING
10. " " " PRECAST CONCRETE CRIBBING ALTERNATE
11. PLAN OF DETOUR
12. STANDARD HEADWALLS FOR C.M.P. CULVERTS
13. " " " TIMBER GUARD POSTS
14. " " " WIRE CABLE GUARD FENCE
15. " " " MARKER POSTS
16. " " " METHODS FOR SUPERELEVATION AND WIDENING OF CURVES
17. TYPICAL SIDE APPROACH ROADS- ROADWAY CONSTRUCTION TRAFFIC SIGNS
23. PLAN AND PROFILE SHEETS
134. CROSS SECTION SHEETS

M-102-E

M-19-B

M-20-B

M-7-B

M-1-B

COLORADO

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED

FEDERAL AID PROJECT NO. 182-A(2)

STATE HIGHWAY NO. 4

EAGLE COUNTY

SCALES ON ORIGINAL TRACINGS

ON PLAN, 1 IN. = 100 FT.

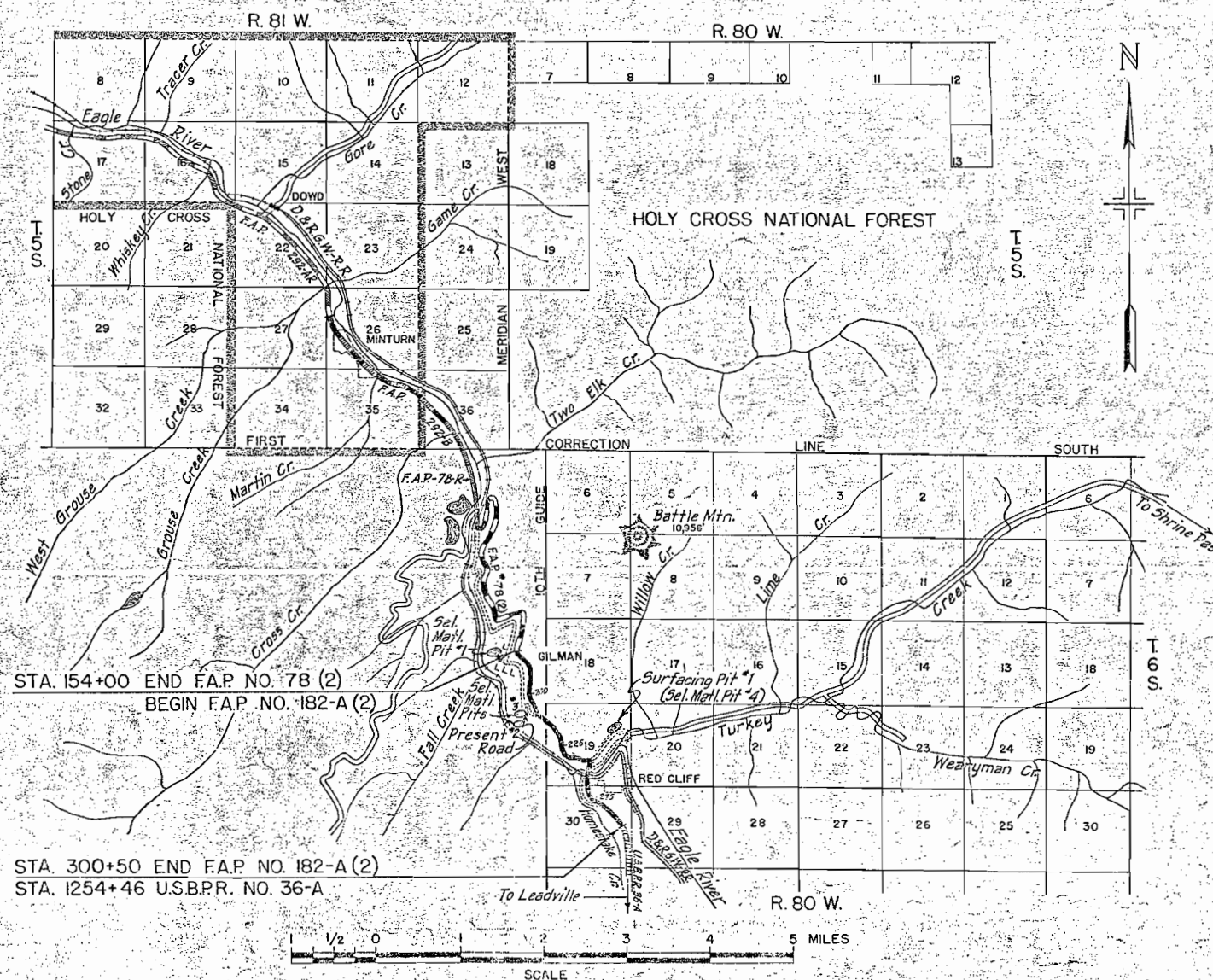
ON PROFILE } 1 IN. = 100 FT. HORIZONTAL

1 IN. = 10 FT. VERTICAL

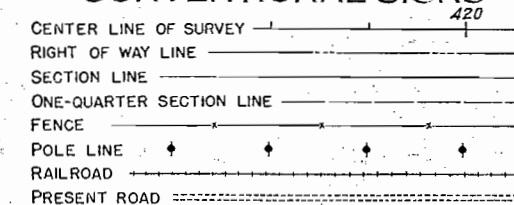
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

GROSS LENGTH OF PROJECT

NET LENGTH OF PROJECT } 16,552.0 FT. = 3.134 MI.



CONVENTIONAL SIGNS



NOTE

It is recommended that the bidders on this project go over the plan details with one of the following field representatives of this department.

D.W. Ormsbee ~ Construction Engineer ~ Denver
H.L. Jenness ~ Division Engineer ~ Glenwood Springs
H.E. Rowbotham ~ Resident Engineer ~ Red Cliff.

RECOMMENDED FOR APPROVAL

[Signature]
ASSISTANT ENGINEER
DATE 8/29/29

APPROVED

[Signature]
STATE HIGHWAY ENGINEER
DATE

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

RECOMMENDED FOR APPROVAL

CHIEF, WESTERN REGION
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED

COMMISSIONER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	182-A(2)	5	

R.O.W. MARKERS

STATION	SIDE	NO.
157+00	R	1
158+45 ¹ Bk	L	1
160+00	R	1
163+00	L	1
164+00	R	1
168+55 ²	R	1
170+00	L	1
172+80 ²	R&L	2
178+00	R	1
184+58 ²	R&L	2
190+00	R&L	2
191+98 ¹	R	1
195+00	L	1
197+10 ² Bk	L	1
197+00 Ah	R	1
201+11 ² Bk	L	1
203+00 Bk	R	1
204+00 Bk	R	1
207+57 ² Bk	L	1
208+00 Bk	R	1
211+74 ² Bk	R	1
212+00 Bk	L	1
214+12 ² Bk	R&L	2
216+14 ² Bk	R&L	2
200+86 ² Ah	L	1
204+31 ² Ah	R	1
205+79 Ah	R	1
206+89 ² Ah	L	1
212+00 Ah	L	1
214+00 Ah	R	1
219+00	L	1
220+76 ²	R	1
224+52 ²	R&L	2
227+97 ²	L	1
229+00	R	1
232+00	R	1
233+03 ²	L	1
236+89 ²	R&L	2
242+21 ² Bk	L	1
241+70	R	1
245+00	L	1
248+00	L	1
250+00	L	1
251+51	L	1
253+50	R	1
257+19 ²	R&L	2
262+00	R	1
272+07 ²	L	1
275+00	R	1
277+10 ² Bk	L	1
279+00	R	1
282+00	R	2
284+22 ¹	R	1
300+50	R&L	2
266+83	L	1
266+96	R	1
202+830 Bk	L	1
205+720 Bk	L	1
202+84 Ah	L	1
207+82 Ah	R	1
224+45	L	1
224+80	R	1
247+48	L	1
275+78	R	1
TOTAL		74

TIMBER GUARD POSTS

STATION	SIDE	NO.
159+05	L	1
164+75	L	1
169+05	L	1
174+10	L	1
174+20 - 182+00	R	40
177+55	L	1
181+05	L	1
185+05	L	1
197+65 Bk. 199+65 Bk	R	11
198+35 Bk.	L	1
203+65 Bk.	L	1
204+75 Bk.	L	1
208+35 Bk.	L	1
212+45 Bk.	L	1
213+55 Bk.	L	1
215+85 Bk.	L	1
203+05 Ah.	L	1
218+20	L	1
220+55	L	1
224+32	L	1
228+05	L	1
232+05	L	1
235+00	L	1
235+20 - 237+00	R	10
239+13	L	1
242+55	L	1
246+75	L	1
250+05	L	1
259+55	L	1
260+70 - 261+50	R	5
263+05	L	1
267+55	L	1
270+80	L	1
273+55	L	1
277+05 Bk	L	1
279+40 - 284+60	R	27
282+13	L	1
288+05	L	1
293+00 - 298+20	R	27
294+40 - 295+40	L	6
299+05	L	1
280+50 - 281+20	R-Appr.	8
TOTAL		168

20' C.-C.

TYPICAL CROSS SECTION OF INTERCEPTING DITCH



WIRE CABLE GUARD FENCE

STATION	SIDE	LN. FT.
157+67 - 161+83 ¹	R	408
163+25 - 174+05	R	1080
183+25 - 189+25	R	600
192+75 - 197+46 ²	R	552
194+00 - 195+36	L	136
200+75 Bk. - 206+27 Bk.	R	552
206+41 Bk. - 208+25 Bk.	R	184
212+50 Bk. - 208+85 Ah	R	1496
210+24 Ah. - 214+00 Ah.	R	376
218+00 - 220+00	R	200
221+50 - 222+22	R	72
223+15 - 224+19	R	104
225+25 - 229+33	R	408
229+75 - 231+75	R	200
233+00 - 235+00	R	200
237+20 - 238+72	R	152
241+55 ² - 251+89	R	1039
251+50 - 252+07	L	95
257+00 - 260+51	R	351
261+80 - 263+00	R	120
264+00 - 277+82 ¹	R	1400
TOTAL		9725

SURFACING PLAN

MATERIAL TO BE PLACED	APPROX. QUANT.	EST. OVERHAUL	SOURCE OF MATERIAL
STA. TO STA.	TONS	TON MILES	
ROADWAY			
154+00 - 252+07	6000	4720	
256+84 - 281+00	1250	720	
281+00 - 300+50	1000	530	
154+00 - 252+07 (Widening Curves)	760	520	
TOTAL	9010	6490	
APPROACHES			
214+95 Bk. 200+30 Ah. Lt	100	110	
206+84 - 215+84 Lt.	500	470	
251+25 - 252+07 Lt.	100	F.H.	
274+61 - 284+06 Rt.	600	180	
284+ & 298+	30	20	
TOTAL	1430	780	
ONE-WAY DETOUR TO RED-CLIFF			
0+00 ~ 6+70 (Pt #4) Red Cliff	250	F.H.	
Pt. #28 (Sta. 9+08 ²) ~ Pt #4 (Sta 6+70)	2200	200	
TOTAL	2450	200	
PROJECT TOTAL	12890	7470	

SELECTED MATERIAL

Note. It is estimated 6" of Selected Material will be required for topping the subgrade, as shown on the Typical Cross Section, thruout the entire Project. Selected Material shall be placed at the approximate rate of 60 cu.yds. per 100 lin ft of Roadway, and is to be classified and paid for as "Unclassified Excavation." Sources of Selected Material may be changed by the Engineer during construction to fit construction developments. Estimated Sources of this material and quantities involved are shown below.

MATERIAL TO BE PLACED	APPROX. QUANT.	EST. OVERHAUL	SOURCE OF MATERIAL
STA. TO STA.	CU.YDS.	STA. YDS.	YD. MILES
ROADWAY			
154+00 - 179+00	1600 #	17,600	1410
179+00 - 209+00 Ah.	3200 #	33,220	480
209+00 Ah. - 252+07	3000 #	33,000	1920
256+84 - 300+50	2620	28,820	3290
APPROACH			
274+00 - 284+00	800	8800	880
TOTAL	11,220	121,440	7980

Quantity includes Selected Material for widening on Curves.

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	182-A(2)	18	

Rev. 3-1-41 Alignment & Grades as Constr. (W.O. #4913) H.T.9

FORCE ACCOUNT-WORK BY POWER CO. FORCES.
Sta. 159+00-165+00-Reqd. Move Power Line Rt.
Sta. 174+00-181+00- " " " Rt. & Lt.

Sta. 181+00-Reqd. 24"x58' C.M.P. Cr. Culv. & 80 Cu. Yds. Uncl. Excav. for Inlet. (Masonry Inlet)

Sta. 185+00-Reqd. 24"x162' C.M.P. Cr. Culv. & 40 Cu. Yds. Uncl. Excav. for Inlet. (Masonry Inlet)

Sta. 177+50-Reqd. 36"x150' C.M.P. Cr. Culv. & 80 Cu. Yds. Uncl. Excav. for Inlet. (Masonry Inlet)

CLEARING & GRUBBING.
Sta. 154+00-161+50-Aspen Lt.
Sta. 162+50-170+50-Light Brush.
Sta. 170+50-186+00-Light Brush & Aspen.

Sta. 170+30-194+90-Reqd. 450 Cu. Yds. Uncl. Excav. for Intercepting Ditch Lt.

Sta. 169+00-Reqd. 24"x178' C.M.P. Cr. Culv. & 40 Cu. Yds. Uncl. Excav. for Inlet. (Masonry Inlet)

Sta. 170+30-Reqd. 60"x186' C.M.P. Cr. Culv. & 50 Cu. Yds. Uncl. Excav. for Ditches. (Std. Hdwl.) Also Reqd. 30 Cu. Yds. Riprap for Outlet Protection.

Sta. 174+05-Reqd. 24"x74' C.M.P. Cr. Culv. & 150 Cu. Yds. Uncl. Excav. for Inlet. (Masonry Inlet)

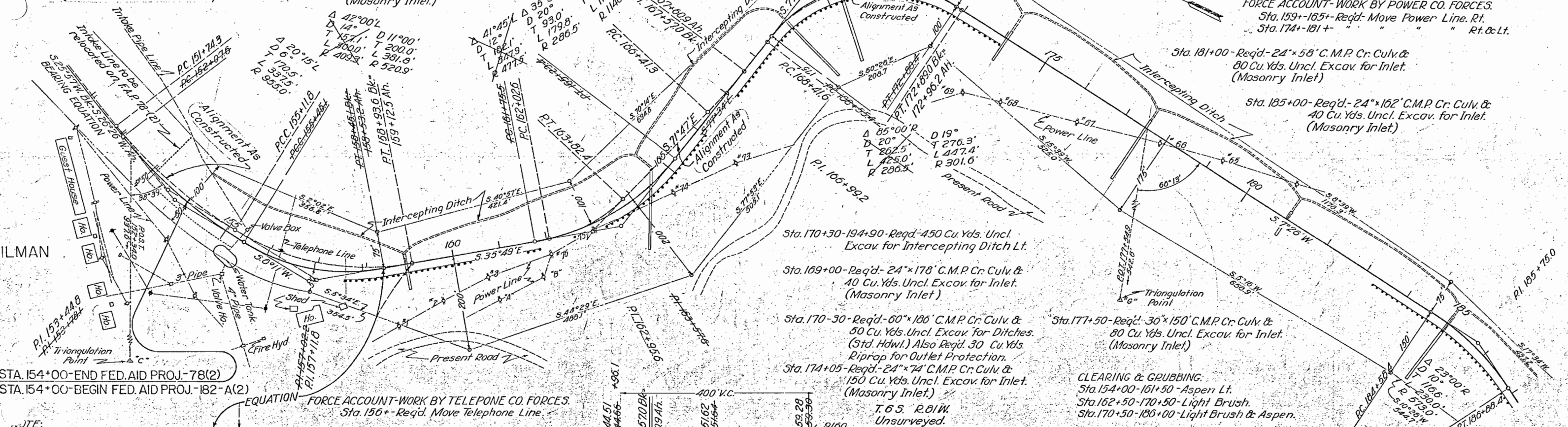
T.G.S. R.O.W. Unserved.

Sta. 154+00-169+00-Reqd. 300 Cu. Yds. Uncl. Excav. for Intercepting Ditch Lt.

Sta. 164+50-Reqd. 24"x170' C.M.P. Cr. Culv. (Sk. 45') & 180 Cu. Yds. Uncl. Excav. for Inlet. (Masonry Inlet)

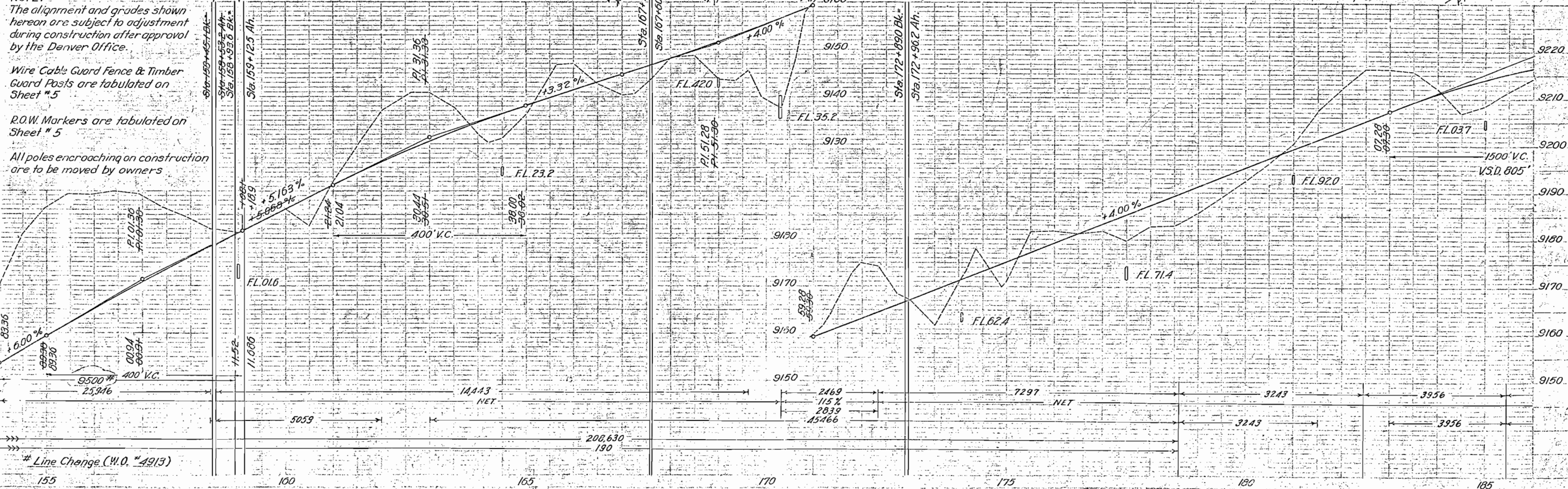
Sta. 159+00-Reqd. 36"x76' C.M.P. Cr. Culv. & 150 Cu. Yds. Uncl. Excav. for Inlet. (Masonry Inlet)

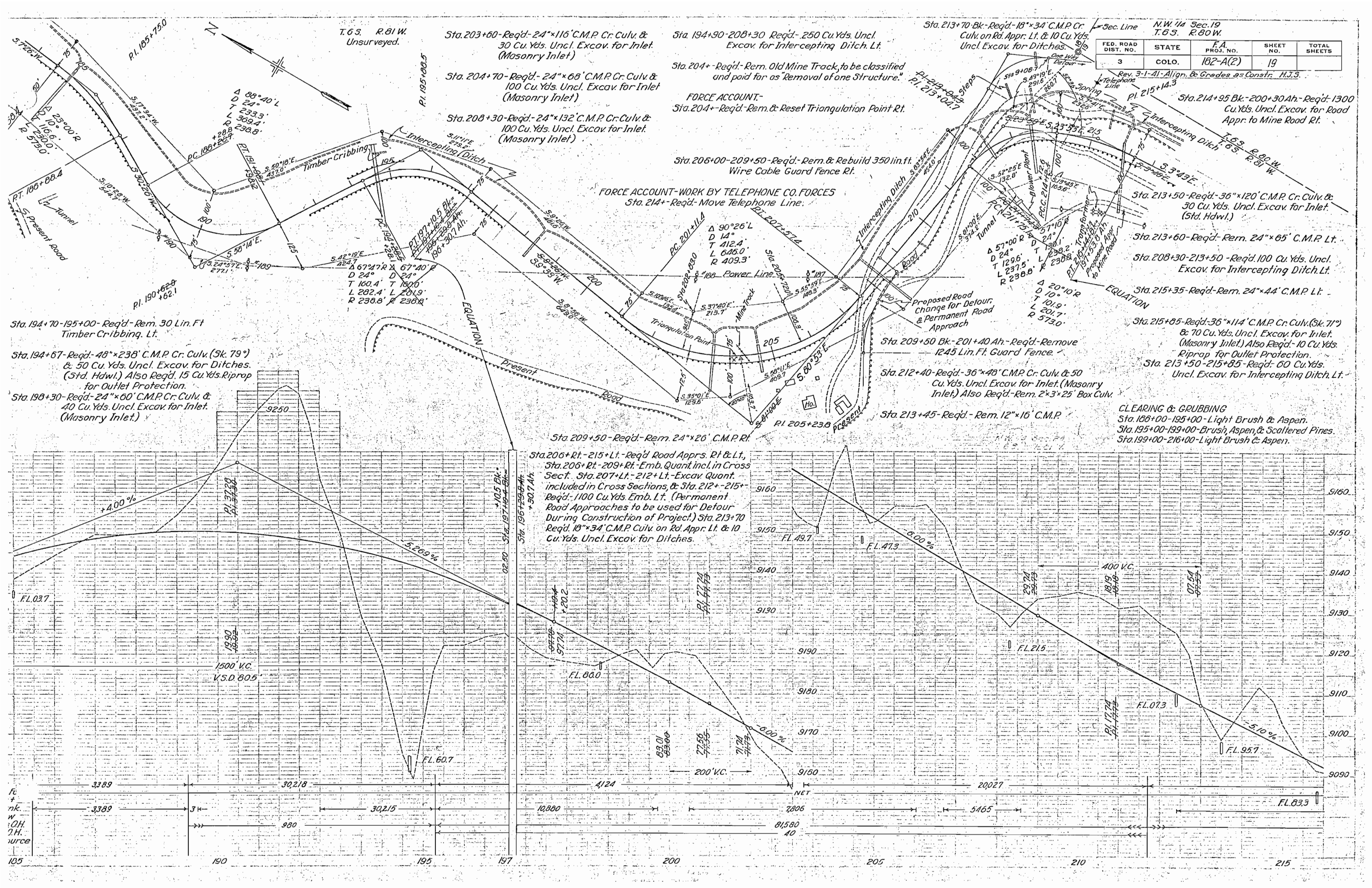
Sta. 154+00-Reqd. Project Marker.
Sta. 154+00-158+93.6-Reqd. Line Change as indicated on plans. (W.O. #4913). Estimated Quantities involved shown in profile below.



STA. 154+00-END FED. AID PROJ. 78(2)
STA. 154+00-BEGIN FED. AID PROJ. 182-A(2)

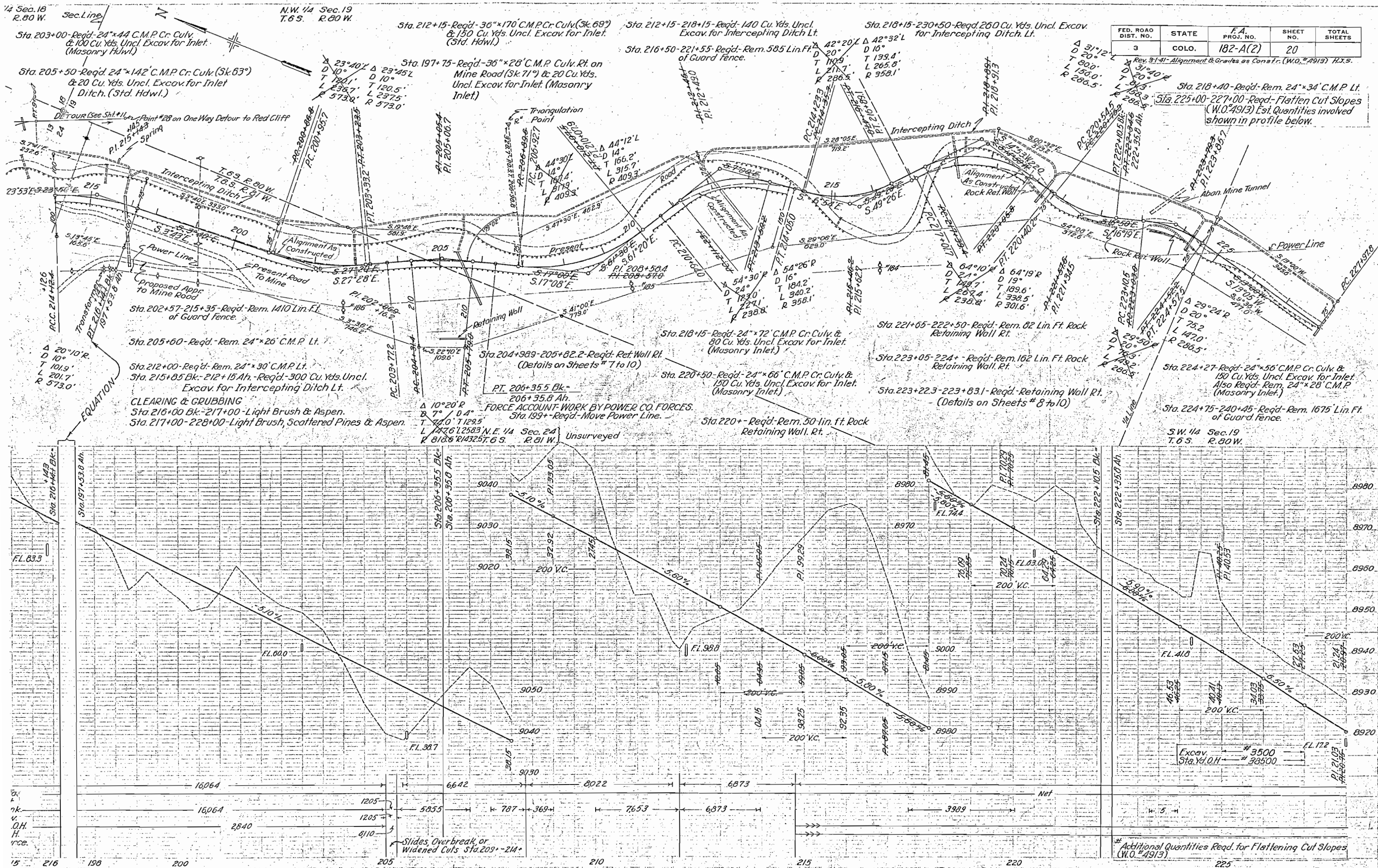
NOTE:
The alignment and grades shown hereon are subject to adjustment during construction after approval by the Denver Office.
Wire Cable Guard Fence & Timber Guard Posts are tabulated on Sheet #5
R.O.W. Markers are tabulated on Sheet #5
All poles encroaching on construction are to be moved by owners





FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	182-A(2)	20	

✓ Rev. 3-1-41 - Alignment & Grades as Constr. (W.O. #4913) H.J.S.



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3	COLO.	182-A(2)	21	

Sta. 249+84-251+25-Req'd.-Rem. 135 Lin. Ft. of Rock Retaining Wall.

Sta. 250+00-Req'd.-24"x54" C.M.P. Cr. Culv. &
50 Cu. Yds. Uncl. Excav. for Inlet.
(Masonry Inlet.)

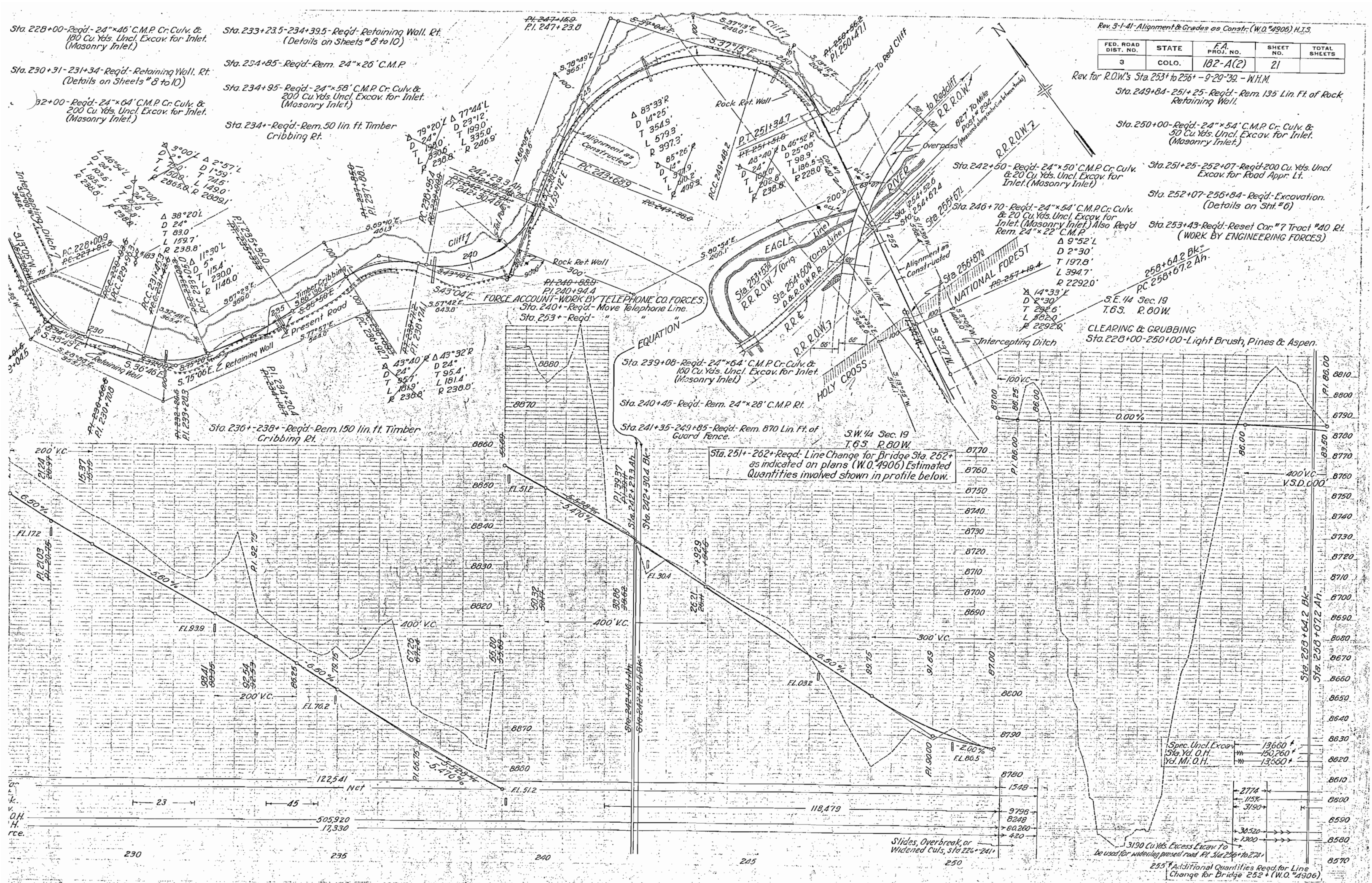
Sta. 251+25-252+07-Req'd-200 Cu. Yds. Uncl.
Excav. for Road Appr. Lt.

Sta. 252+07-256+84-Req'd-Excavation.
(Details on Sht #6)

Sta. 253+43-Req'd.-Reset Cor. #7 Tract #40 R.L.
(WORK BY ENGINEERING FORCES)

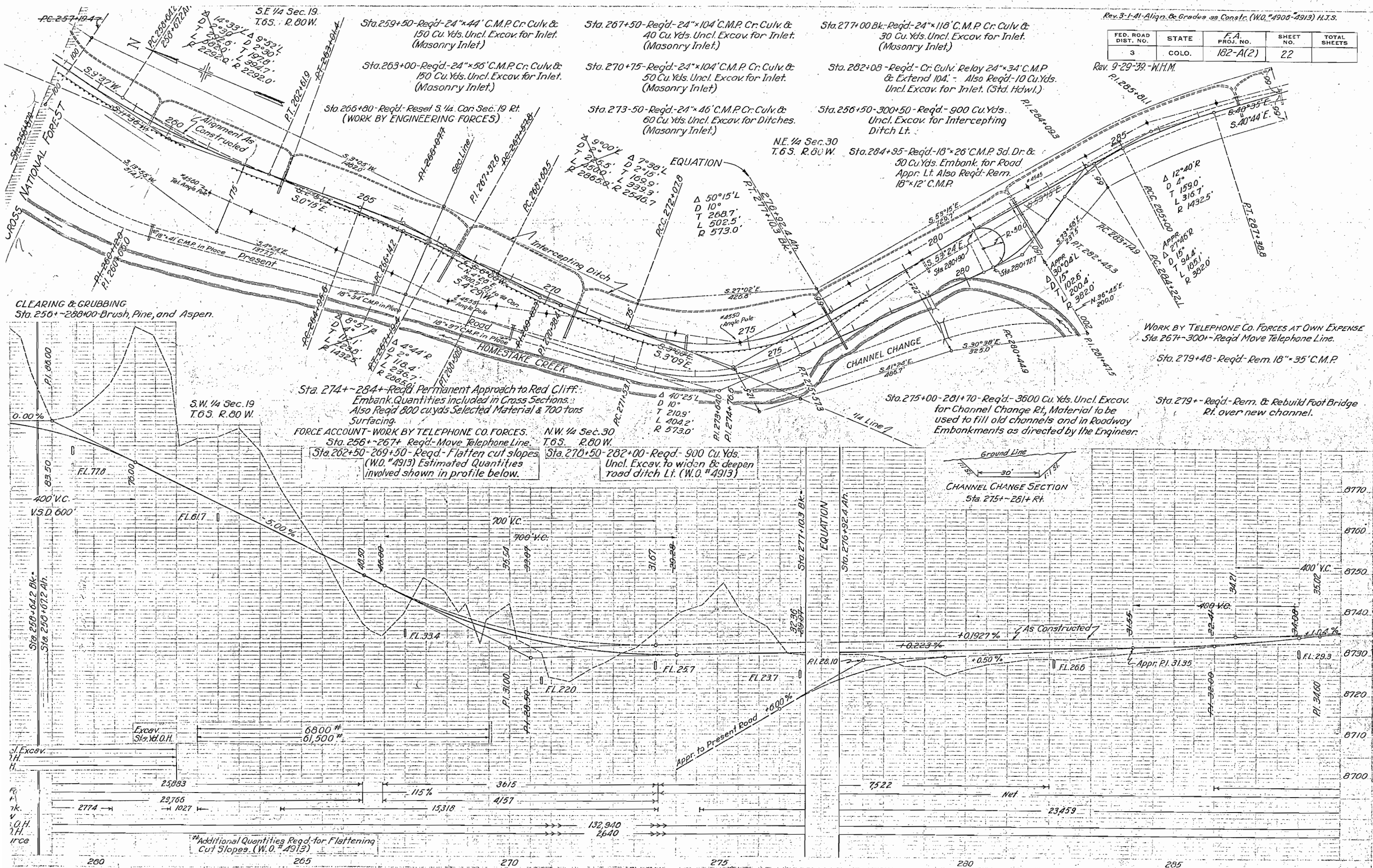
258+64.2 Bk.
PC 258+67.2 Ah
S.E. 1/4 Sec. 19
T.6S. R.80W

CLEARING & GRUBBING
Sta. 228+00-250+00-Light Brush, Pines & Aspen.



FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	182-A(2)	22	

Rev. 9-29-39 - W.H.M.



Sta. 288+00-Req'd- 24"x48' C.M.P. Cr. Culv. &
20 Cu. Yds. Uncl. Excav. for Inlet.
(Std. Hdwl.)

Sta. 300+50-Req'd- Project Marker

STA. 300+50-END FED. AID PROJ. NO. 182-A(2)
STA. 1254+46-U.S.B.P.R. NO. 36-A.

Rev. 3-1-41-Align. & Grades as Constr. H.T.S.

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	182-A(2)	23	

Rev. 9-29-39-W.H.M.

