



COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.



r500001184

Description:

ROW Plans 24X36

Route # and Mile Points:

US 160

Originating Office:

ROW/Survey

File Name:

F.A.P. 213-C_ROW(.PDF)

Box Location:

21 (TUBE-23)of 38

R.O.W.

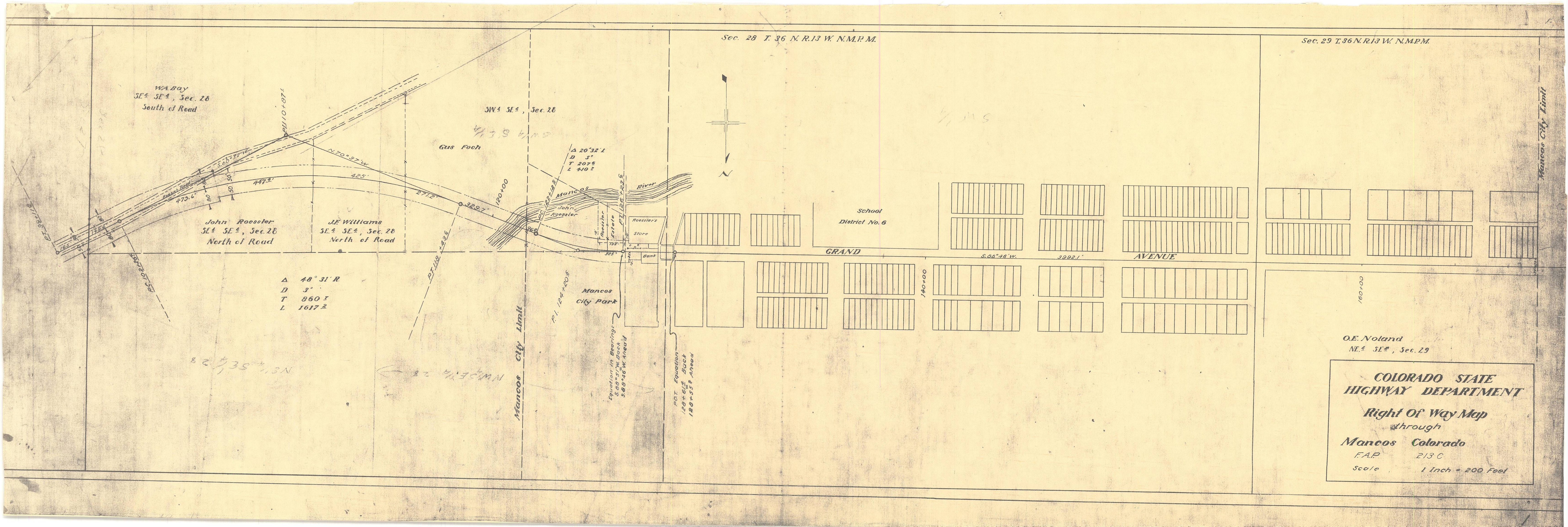
Montezuma, County

Marcos - East.

FAP 213-C

Sec. 28 T. 36 N. R. 13 W. N.M.P.M.

Sec. 29 T. 36 N. R. 13 W. N.M.P.M.



WABay
SE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 28
South of Road

SW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 28

John Roessler
SE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 28
North of Road

J.E. Williams
SE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 28
North of Road

Δ 48° 31' R
D 3'
T 860'
L 1617'

Mancoos
City Park

School
District No. 6

GRAND

S. 86° 46' W.

3992.1'

AVENUE

O.E. Noland
NE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 29

COLORADO STATE
HIGHWAY DEPARTMENT

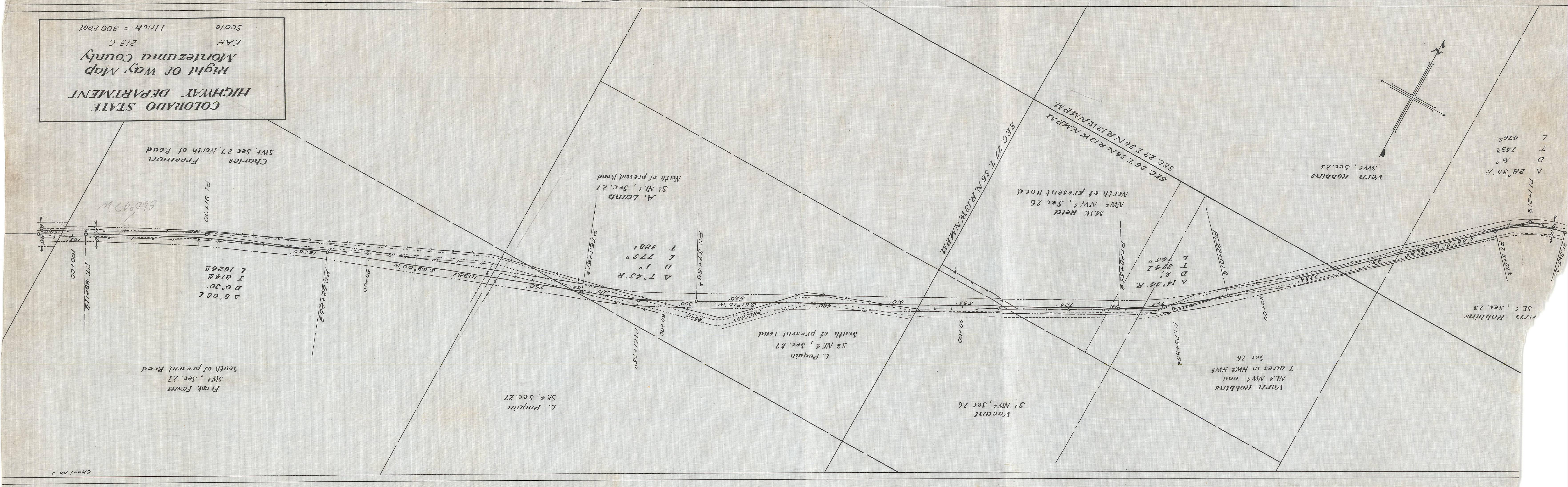
Right Of Way Map
through

Mancoos Colorado

F.A.P. 213 C

Scale 1 Inch = 200 Feet

COLORADO STATE
HIGHWAY DEPARTMENT
Right of Way Map
Montezuma County
F.A.P.
213 C
Scale
1 inch = 300 Feet



Vern Robbins
SE 1/4, Sec. 23

Vern Robbins
SW 1/4, Sec. 23
Delta 28° 35' R
D 243°
L 476°

Vacant
SE NW 1/4, Sec. 26

Vern Robbins
NE 1/4 NW 1/4 and
NW 1/4 NW 1/4
7 acres in NW 1/4 NW 1/4
Sec. 26

M.W. Reid
NW 1/4 NW 1/4, Sec. 26
North of present road

A. Lamb
S 1/2 NE 1/4, Sec. 27
North of present road

Charles Freeman
SW 1/4, Sec. 27, North of Road

L. Paquin
SE 1/4, Sec. 27

Frank Fowler
SW 1/4, Sec. 27
South of present road

Manoas City Limit

See 28
See 27

4/13/85 4/13/85

Δ $48^{\circ} 31' R.$
 D 3°
 T 860 f
 L $1617 \underline{2}$

82 $\frac{1}{1}$ 35 $\frac{1}{1}$ 3N

28 $NW\frac{1}{4}SE\frac{1}{4}$

Mancos City Limit

Equation in Bearin
S. 88° 51' W. Back
S. 88° 46' W. Ahead

P.O.T. Equation
 $128 + 61\frac{1}{2}$ Back
 $128 + 55\frac{1}{2}$ Ahead

GRAND

S. 88° 46' W.

3992.1'

AVENUE

O.E. Noland *24440*
NE. $\frac{1}{2}$ SE $\frac{1}{4}$, Sec. 29

**COLORADO STATE
HIGHWAY DEPARTMENT**

Right Of Way Map *through*

Mancos Colorado

F.A.P. 213 C

Scale 1 Inch = 200 Feet

Mancoos City Limits

Nelia Gawthrop Estate.
S² SW⁴ Sec. 29

O. D. Noland
N². S. W⁴ Sec. 29.

*Right Of Way Map
Montezuma County*

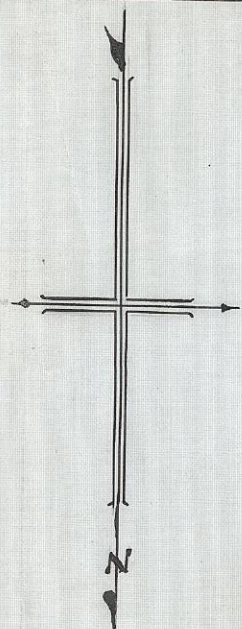
F.A.P. 213 C
Scale 300 Feet = 1 Inch

Mammoth City Limits

SEC. 29 T.36N. R.13W. N.M.P.M.

Hugo Weston
SW¹SE⁴ Sec.29

Nelia Gawthrop Estate.
S²SW⁴ Sec.29



170+00

180+00

190+00

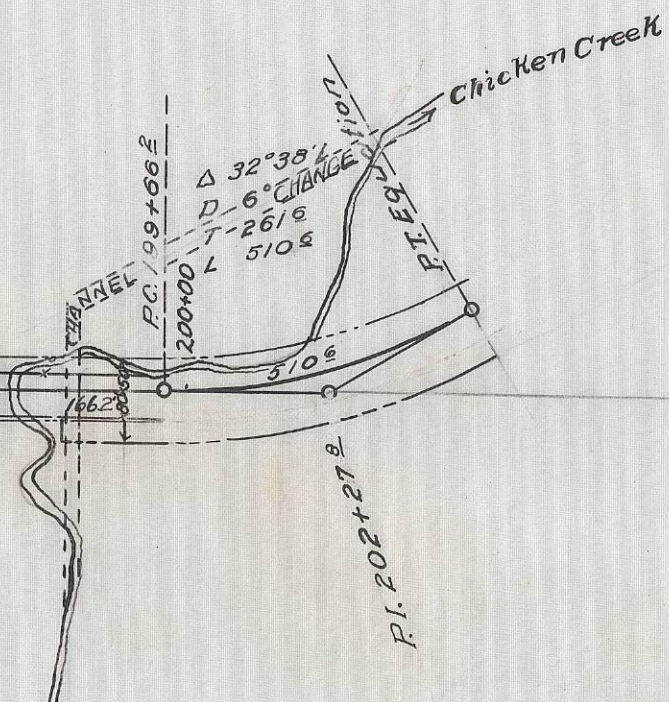
1350'

S 88° 46' W.

1632.0'

O.E. Noland
NW¹SE⁴ Sec.29.

O.D. Noland Estate
N²S.W⁴ Sec.29.



COLORADO STATE
HIGHWAY DEPARTMENT

Right Of Way Map
Montezuma County

F.A.P.

213 C

Scale

300 Feet = 1 Inch



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Department of
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r500002027

Description:

ROW Plans 11X17

Route # and Mile Points:

US 160

Originating Office:

ROW/Survey

File Name:

F.A.P. 213-C_ROW(.PDF)

Box Location:

32 of 38

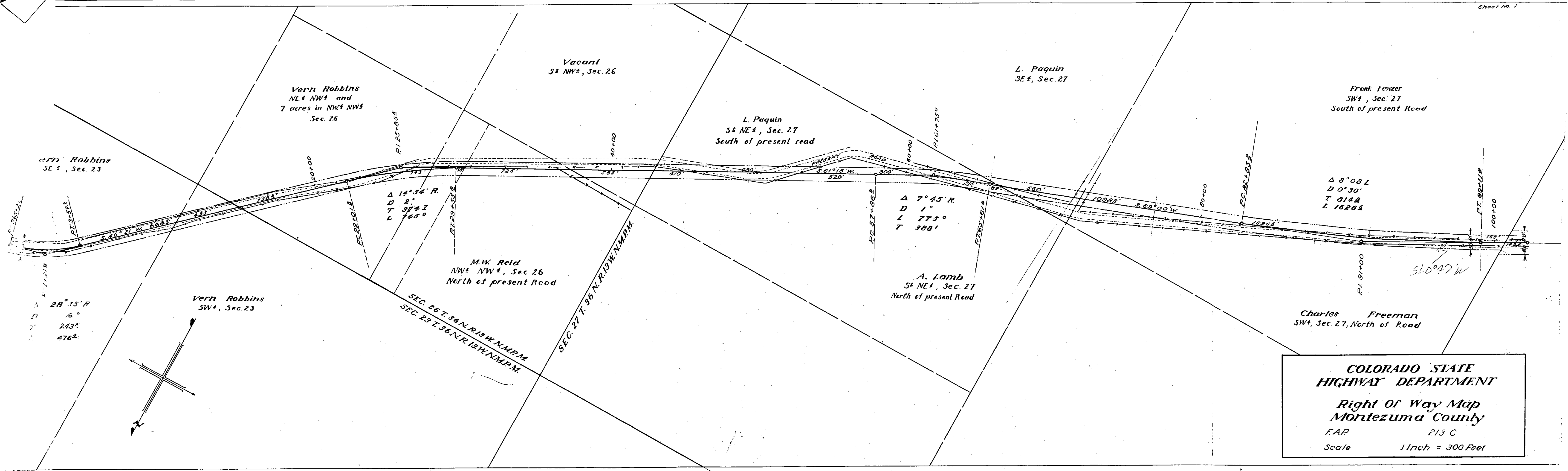
FEDERAL ROAD DIVISION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 022-1(9)	6	

3 + TO 17 +) &
.. 13 + 50)

R.O.W. MARKERS

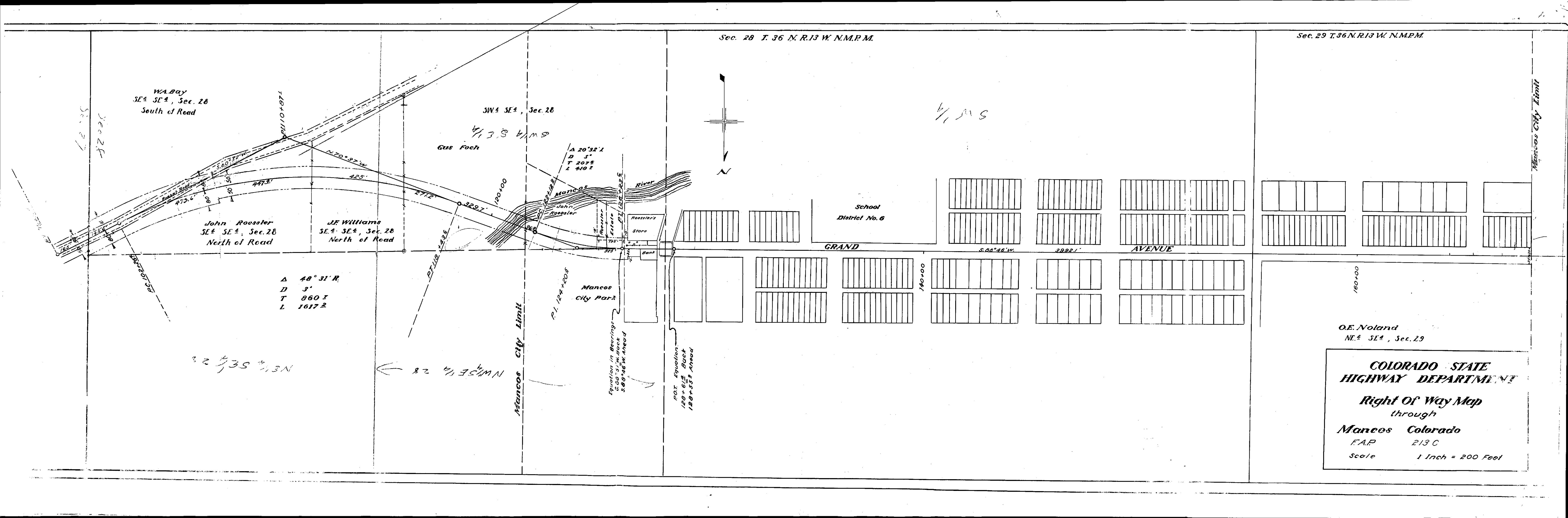
TOTAL - 34' ROADWAY	88
*Timber Guard Posts to be furnished by State & placed by Contractor.	200

STATION	22' ROADWAY		34' ROADWAY	
	SIDE	NO.	SIDE	NO.
-3+00	Rt.	1		
10+00	Lt.	1		
23+50			Rt.	1
36+50			Lt.	1
50+50			Rt.	1
61+00			Lt.	1
76+00			Rt.	1
88+50			Lt.	1
105+50			Rt.	1
121+50			Lt.	1
137+50			Rt.	1
144+00			Lt.	1
165+00			Rt.	1
172+50	Lt.	1		
726+50	Rt.	1		
712+00			Lt.	1
TOTAL - 22' ROADWAY		4		
TOTAL - 34' ROADWAY				12



Sec. 28 T. 36 N. R. 13 W. N.M.P.M.

Sec. 29 T. 36 N. R. 13 W. N.M.P.M.



O.E. Noland
NE 1/4 SE 1/4, Sec. 29

COLORADO STATE
HIGHWAY DEPARTMENT

Right Of Way Map
through

Mancos Colorado

F.A.P. 213 C

Scale 1 Inch = 200 Feet

COLORADO STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED COMB. FEDERAL AID PROJECT NO. 213 B EXT. R, 213 C & 294 AR STATE HIGHWAY NO. 10 MONTEZUMA COUNTY

FED. ROAD DIST. NO.	STATE	COMB. FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	213 B EXT. R, 213 C & 294 AR	1	

Rev 9-21-36 hbm Lengths
Rev 11-19-36 hbm for Const Div No 2

CONVENTIONAL SIGNS

CENTER LINE OF SURVEY	15
RIGHT OF WAY LINE	15
SECTION LINE	15
ONE QUARTER SECT LINE	15
FENCE	15
TELEPHONE LINE	0 0 0 0

INDEX OF SHEETS

COMBINED FEDERAL AID PROJECT NO. 213 B EXT. R, 213 C CONST. DIV. NO. 1, & 294 AR

SHEET NO.	DESCRIPTION	REFERENCE
1	SKETCH MAP AND TITLE	
2	TYPICAL SECTION & SUMMARY OF QUANTITIES	
3	LIST OF STRUCTURES	
4	CONCRETE BOX CULVERTS	M-103-D
5		M-104-D
6	REINFORCED CONCRETE CULVERT PIPE	M-112-A
7	STANDARD HEADWALLS FOR C.M.P. CULVERTS	M-102-E
8	SIPHON CORRUGATED GAL. IRON	M-123-A
9	CATTLE GUARD	M-16-A
10	SPECIAL NO. 13 CONCRETE INLET	M-12-B
11	STANDARD WIRE CABLE GUARD FENCE	M-20-A
12	STANDARD WIRE FENCE WITH TREATED WOOD POSTS AND MARKER POSTS	M-24-F
13	STANDARD METHODS FOR SUPERELEVATION AND WIDENING OF CURVES	M-1-A
14	TYPICAL SIDE APPROACH ROADS AND ROADWAY CONSTRUCTION TRAFFIC SIGNS	M-2-B
15 to 21	PLAN AND PROFILE	
22 to 48	CROSS SECTIONS	

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

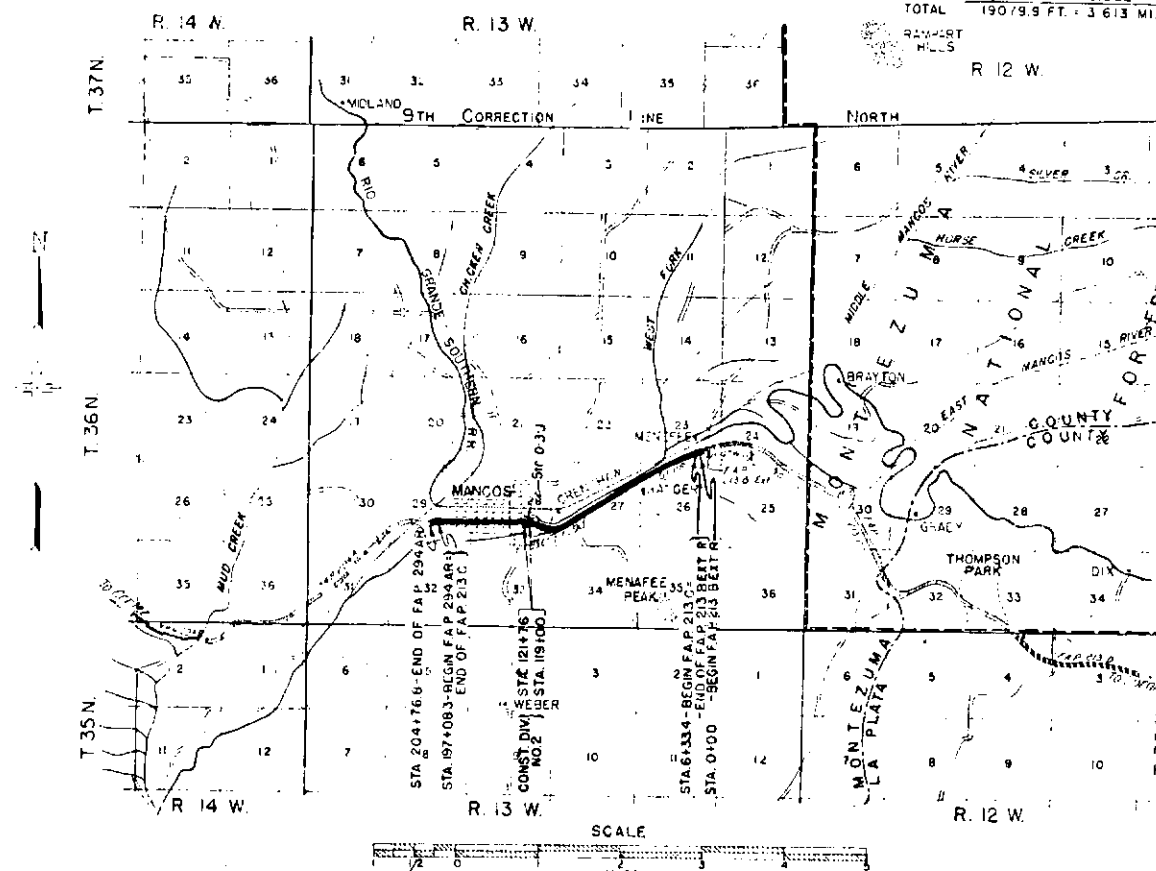
GROSS LENGTH OF PROJECT 18803.9 FT. = 3.561 MI.
NET LENGTH OF PROJECT 19079.9 FT. = 3.613 MI.

FAP 213 C
CONSTRUCTION DIVISION NO. 1 18803.9 FT. = 3.561 MI.
CONSTRUCTION DIVISION NO. 2 276.0 FT. = 0.052 MI.
TOTAL 19079.9 FT. = 3.613 MI.

INDEX OF SHEETS

FEDERAL AID PROJECT NO. 213 C CONST. DIV. NO. 2

SHEET NO.	DESCRIPTION	REFERENCE
1	SKETCH MAP AND TITLE	
2	TYPICAL SECTION & SUMMARY OF QUANTITIES	
3	LIST OF STRUCTURES	
4 TO 8	DETAILS OF BRIDGE STA. 1204	
9	STANDARD WIRE CABLE GUARD FENCE	M-20-A
10	STANDARD WIRE FENCES (UNTREATED WOODEN POSTS) & MARKER POSTS	M-24-FX
11	STANDARD STRUCTURE NUMBER LETTERING	M-10-A
12	STANDARD METHODS FOR SUPERELEVATION & WIDENING OF CURVES	M-1-A
13	ROADWAY CONSTRUCTION TRAFFIC SIGNS	M-2-B
18	PLAN & PROFILE	
36 & 48	CROSS SECTIONS	



NOTE
It is recommended that bidders on this project go over the plan details with one of the following field representatives of the department:
J.R. Cheney Division Engineer, Durango, Colorado
A.H. Kiesel Resident Engineer, Durango, Colorado

RECOMMENDED FOR APPROVAL 8/11/36
William J. ...
ASSISTANT ENGINEER
APPROVED
Chas. 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

NOTE: All poles encroaching on construction are to be moved by owners.
Right of way markers are tabulated on sheet No. 2.
Fencing requirements and gates are tabulated on sheet No. 3.

SE 1/4 SEC 23
T 36 N R 13 W
N.M.P.M.

NE 1/4 SEC 26
T 36 N R 13 W
N.M.P.M.

NW 1/4 SEC 26
T 36 N R 13 W
N.M.P.M.

FED. ROAD DIST. NO.	STATE	FED. AID NO.	SHEET NO.	TOTAL SHEETS
J	COLO.	2894	15	24

PC 0+00
Δ 28°35' L
D 6'
T 243.4'
L 476.4'
H 9.50'

PT 4+76.4
= 3+59.84h

Sta 14+00 - Req'd 24"x54" CMP cross culvert & 30 cu yds Uncl. Excav for ditches

Sta 17+30 - Req'd 2 18"x34" CMP side drains Rt & Lt & 100 cu yds Emb for Road Apprs Rt & Lt

Sta 20+00 - Req'd 24"x46" CMP cross culvert & 5 cu yds Uncl. Excav for ditches & remove 5x12x29 WBC

Sta 26+00 - Req'd 24"x44" CMP cross culvert & 24"x30" CMP siphon pipe over ditch & 10 cu yds Uncl. Excav for ditches

Sta 26+30 - Req'd remove 18"x26" CMP & remove 4x12x24 WBC

STA 359+00 FAP 213B EXT.
STA 0+00-BEGIN FAP NO. 213B EXTR

Sta 0+00 - Req'd Project marker, & 100 cu yds Emb for approach to Project

STA 6+33.4 END FAP 213B EXT. R.
BEGIN FAP 213C

Sta 7+40 - Req'd 18"x66" CMP cross culvert & 10 cu yds Uncl. Excav for ditches & remove 18"x30" CMP

Sta 9+47 - Req'd 18"x44" CMP cross culvert & 10 cu yds Uncl. Excav for ditches & remove 1x12x29 WBC

Sta 9+47 to 19+00 - Req'd 150 cu yds Uncl. Excav for ditch change Rt

Sta 11+50 - Req'd 50 cu yds Emb for Rd Appr Lt

Sta 21+00 - Req'd remove 2x2x32 WBC

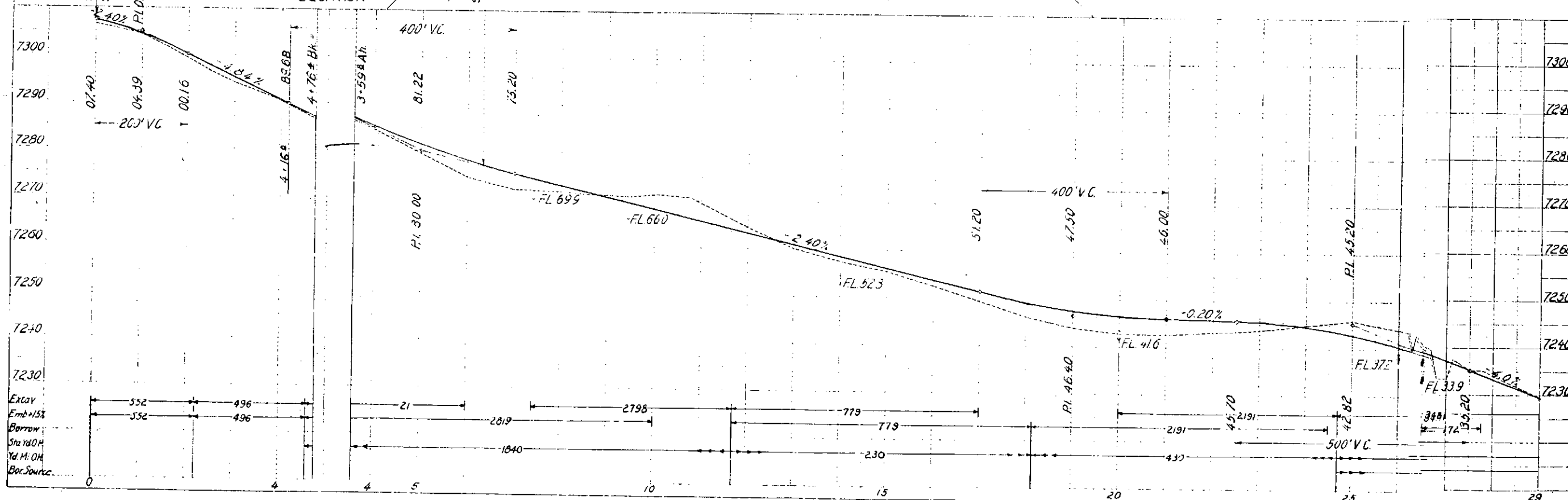
Sta 24+00 - Req'd 50 cu yds Emb for Rd Appr

Sta 26+50 - Req'd 4x3x40' CIP (Skew 60°) & 10 cu yds Uncl. Excav for ditches

Sta 27+75 - Req'd Remove 4x3x26' CIP

Δ 14°54' R
D 2°
T 374.2'
L 745.4'
R 286.5'

EQUATION



NW 1/4 SEC 26
T 36 N R 13 W
NMPM

NE 1/4 SEC 27
T 36 N R 13 W
NMPM

FED. ROAD DIST. NO.	STATE	COMB. FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	213C	16	

SE 1/4 SEC 27
T 36 N R 13 W
NMPM

Sta 30+00~Req'd 18x56' CMP cross culvert
& 5 cu yds Uncl Excav for ditches

Sta 35+00~18x46' CMP cross culvert
& 10 cu yds Uncl Excav for ditches

Sta 49+00~Req'd 24x52' CMP cross culvert
& 5 cu yds Uncl Excav for ditches &
remove 16x26' CMP

Sta 41+00~Req'd 24x42' CMP cross culvert
& 10 cu yds Uncl Excav for ditches

Sta 41+70~Req'd 50 cu yds Emb for
Rd Appr Rt

Sta 51+00 to 53+00~Req'd 60 cu yds
Uncl Excav for ditch change Rt

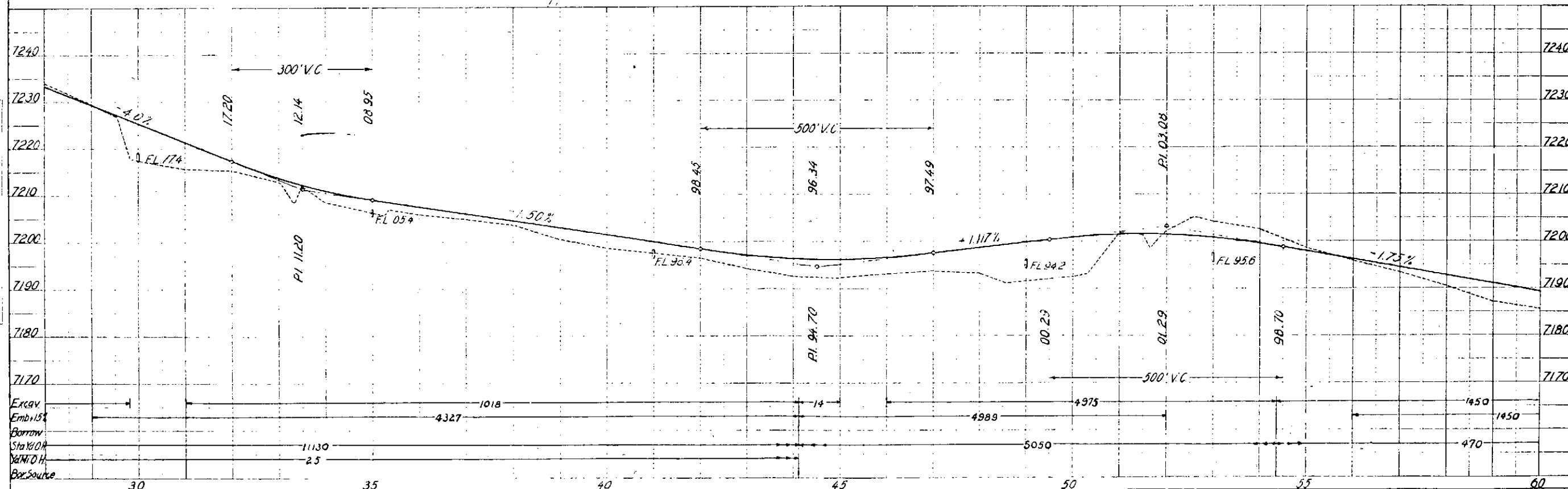
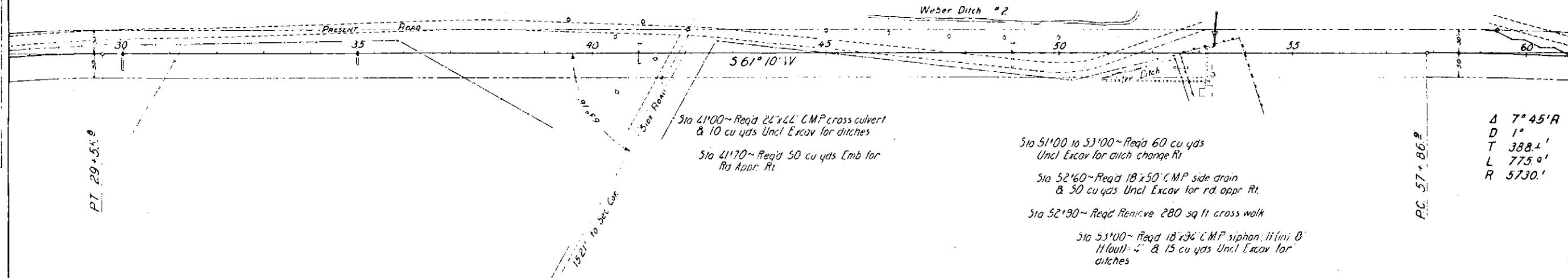
Sta 52+60~Req'd 18x50' CMP side drain
& 50 cu yds Uncl Excav for rd. appr Rt

Sta 52+90~Req'd Remove 280 sq ft cross walk

Sta 53+00~Req'd 18x36' CMP siphon; 11' (min) B
H (out) - 4' & 15 cu yds Uncl Excav for
ditches

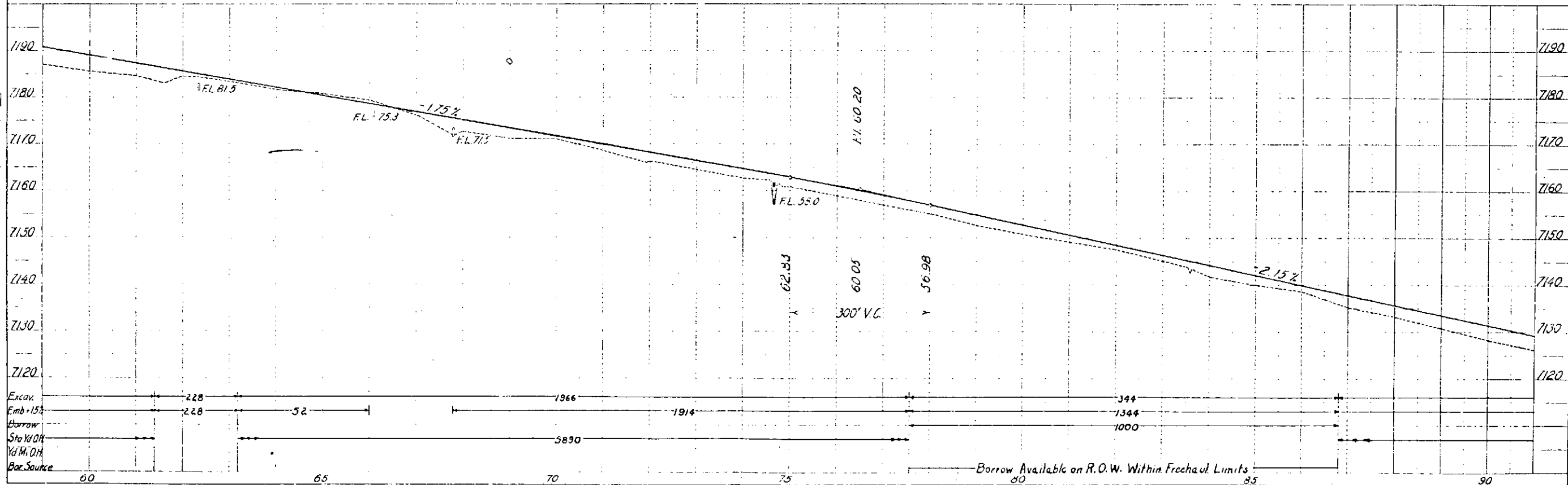
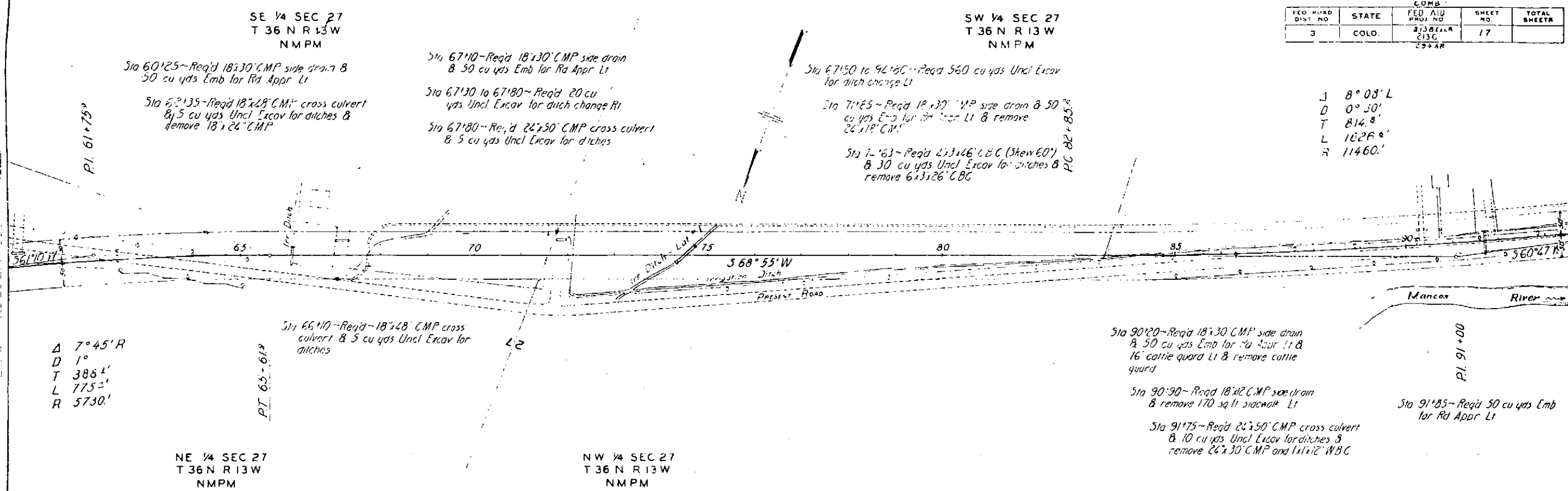
Δ 7°45'R
D 1°
T 388.4'
L 775.0'
R 5730.1'

PC 57+86.9

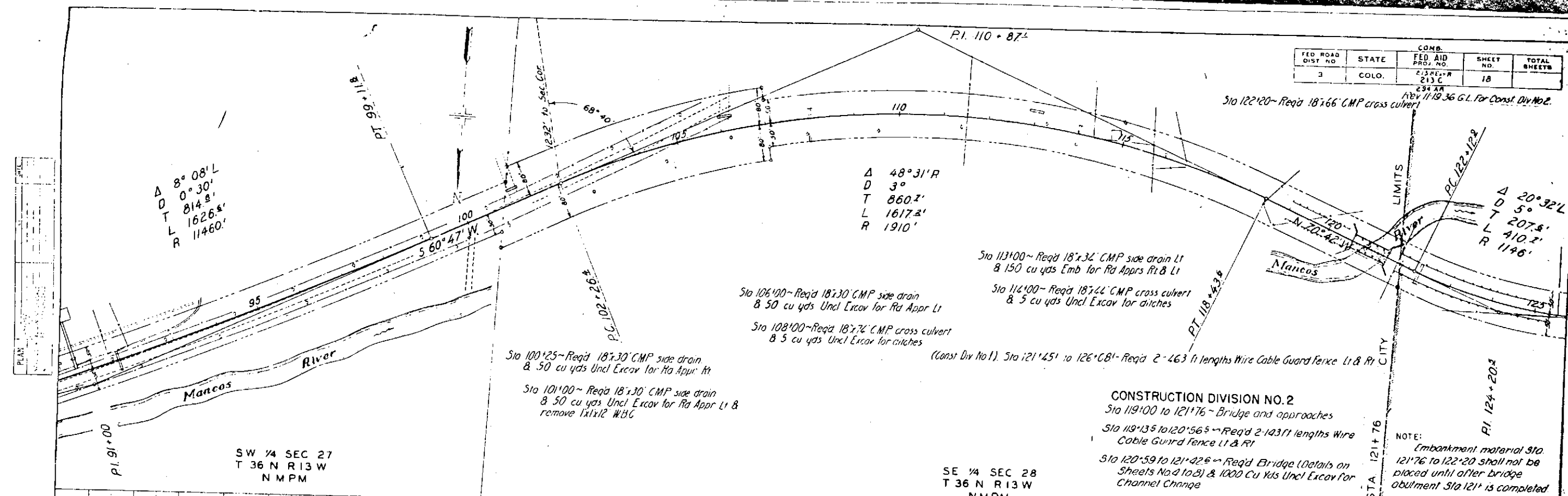


FED. ROAD DIST. NO.	STATE	COMB. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	2138 E.L.R. 2136	17	

J 8° 03' L
 D 0° 30'
 T 814.8'
 L 1626.8'
 R 11460.1'

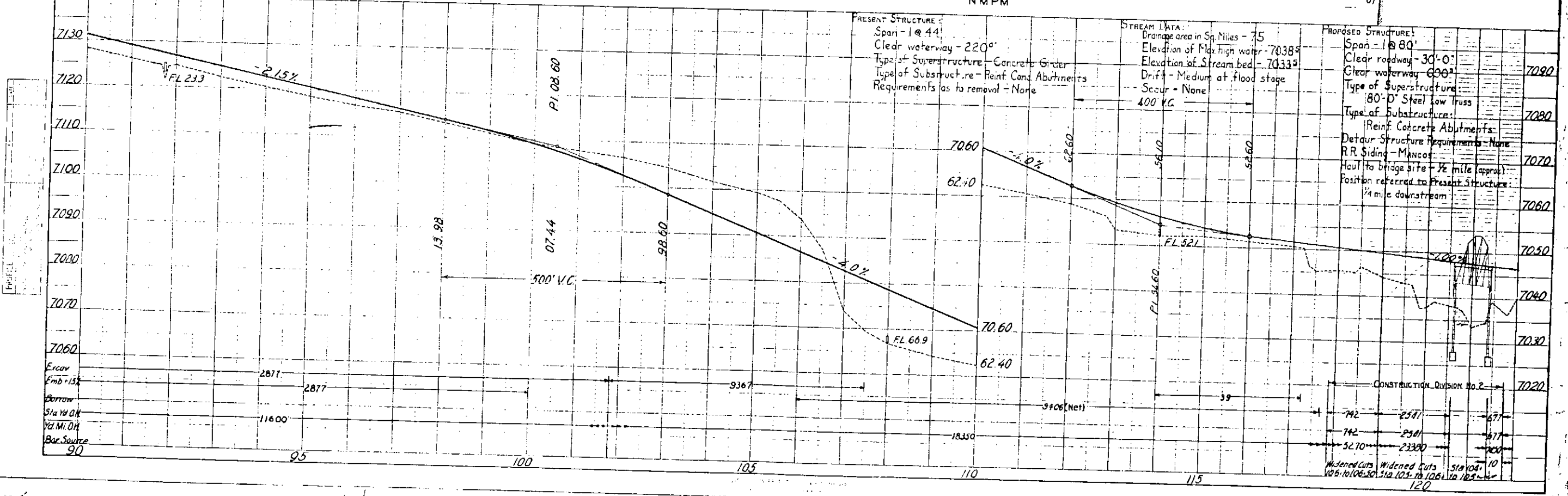


FED. ROAD DIST. NO.	STATE	COMB. FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	213 C	18	



CONSTRUCTION DIVISION NO. 2
 Sta 119+00 to 121+76 ~ Bridge and approaches
 Sta 119+35 to 120+56 ~ Reg'd 2-143 ft lengths Wire Cable Guard Fence Lt & Rt
 Sta 120+59 to 121+42 ~ Reg'd Bridge (Details on Sheets No. 4 to 8) & 1000 Cu Yds Uncl Excav for Channel Change

NOTE:
 Embankment material Sta 121+76 to 122+20 shall not be placed until after bridge abutment Sta 121+ is completed



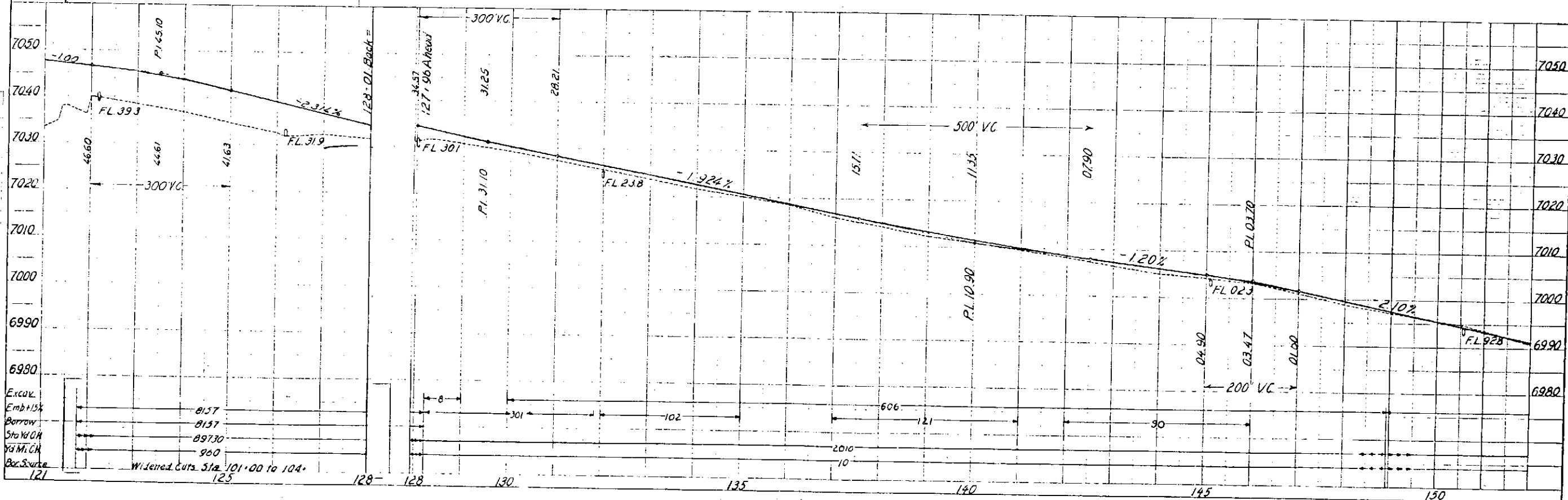
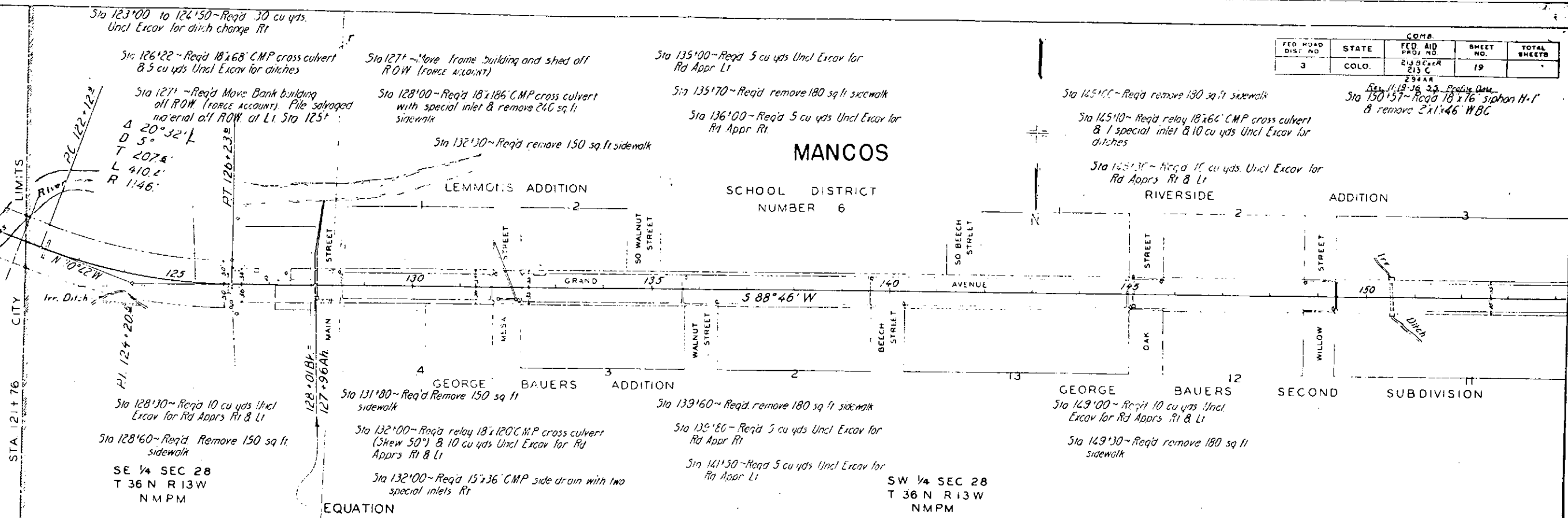
FED. ROAD DIST. NO.	STATE	COMB. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	213 C	19	

MANCOS

SCHOOL DISTRICT
NUMBER 6

RIVERSIDE ADDITION

SECOND SUBDIVISION



Excav.	8157
Empl. 15%	8157
Borrow	89730
Stationing	900
Bar Source	

Sta 155+80 ~ Reg'd 10 cu yds Uncl
Excav for Rd Apprs R, B Lt
Sta 156+15 ~ Reg'd remove 180 sq ft
sidewalk

Sta 160+60 ~ Reg'd 5 cu yds Uncl
Excav for Rd Appr Lt

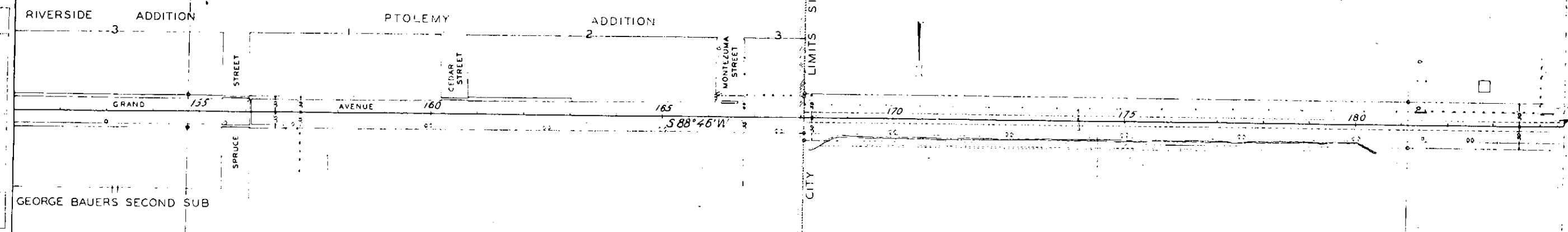
Sta 166+45 ~ Reg'd 50 cu yds Emb for
Rd Appr Lt & 18"x30" CMP
side drain Lt

Sta 174+00 ~ Reg'd 18"x26" CMP cross culvert
8.5 cu yds Uncl Excav for ditches

Sta 181+50 ~ Reg'd 18"x30" CMP side drain
8.50 cu yds Emb for Rd Appr Lt &
remove 1x1x12 WBC

FED ROAD DIST NO	STATE	COMB. PROJ NO	SHEET NO.	TOTAL SHEETS
3	COLO	213 R 27 A 213 C	20	
2844A				

PLAN



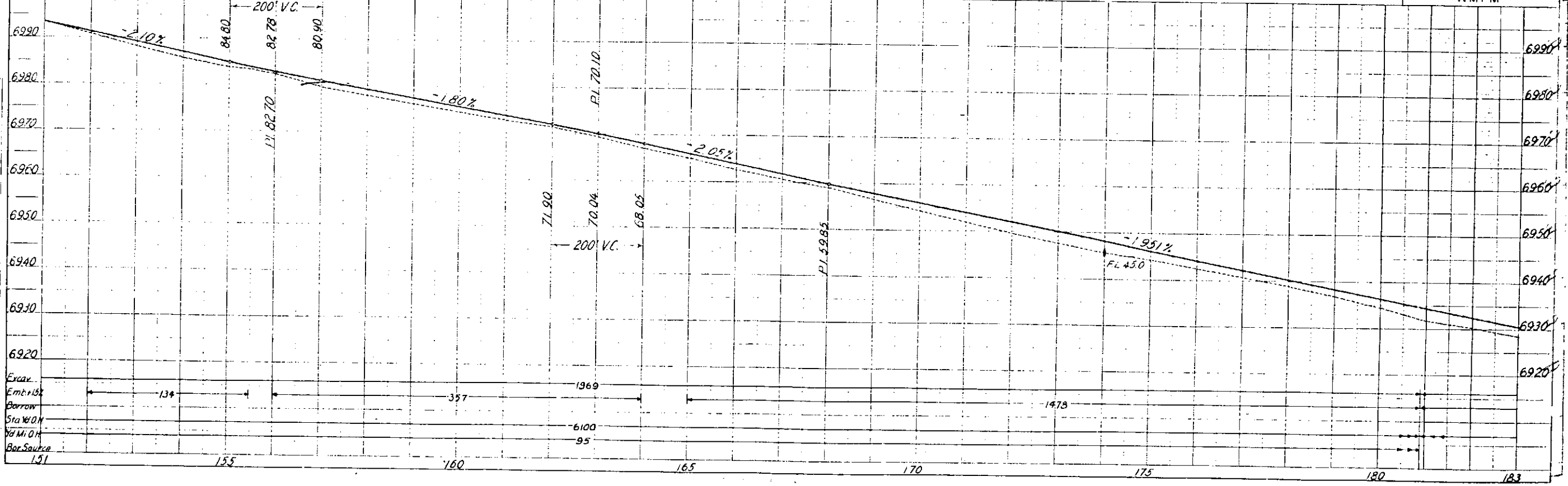
GEORGE BAUERS SECOND SUB
SW 1/4 SEC 28
T 36 N R 13 W
NM PM

CITY LIMITS SIA 168+05

SE 1/4 SEC 29
T 36 N R 13 W
NM PM

SW 1/4 SEC 29
T 36 N R 13 W
NM PM

PROFILE



FED. ROAD DIST. NO.	STATE	COMP. FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	23321A 213C 234 AR	21	

Sta 182+10 ~ Req'd 18x30 CMP side drain
8 50 cu yds Emb for Rd Appr Lt

Sta 184+75 ~ Req'd 18x30 CMP side drain
8 50 cu yds Emb for Rd Appr Rt &
remove 1x1x16 WB

Sta 193+00 to 196+25 ~ Req'd remove 16x16x325
Flume

Sta 198+17 ~ Req'd 10x10x38 C.B.C. 8 20 cu yds
Uncl Excav for ditches & remove 20x20 concrete
bridge

Sta 197+83 to 198+65 ~ Req'd 2 lengths Wire Cable Guard Fence
56 lin ft each Lt & Rt

Sta 193+50 ~ Req'd remove 18x CMP

Sta 202+30 ~ Req'd 18x86 CMP cross culvert &
remove 15x30 CMP

Sta 197+08 1/2 End FAP 213C =
Begin FAP 294 AR (Opposite
Orig Sta 29+29)

Sta 204+76 ~ Req'd Project marker
8 100 cu yds Emb for Appr
to project

Sta 202+50 to 204+80 ~ Req'd
50 cu yds Uncl Exc for
ditch change Lt

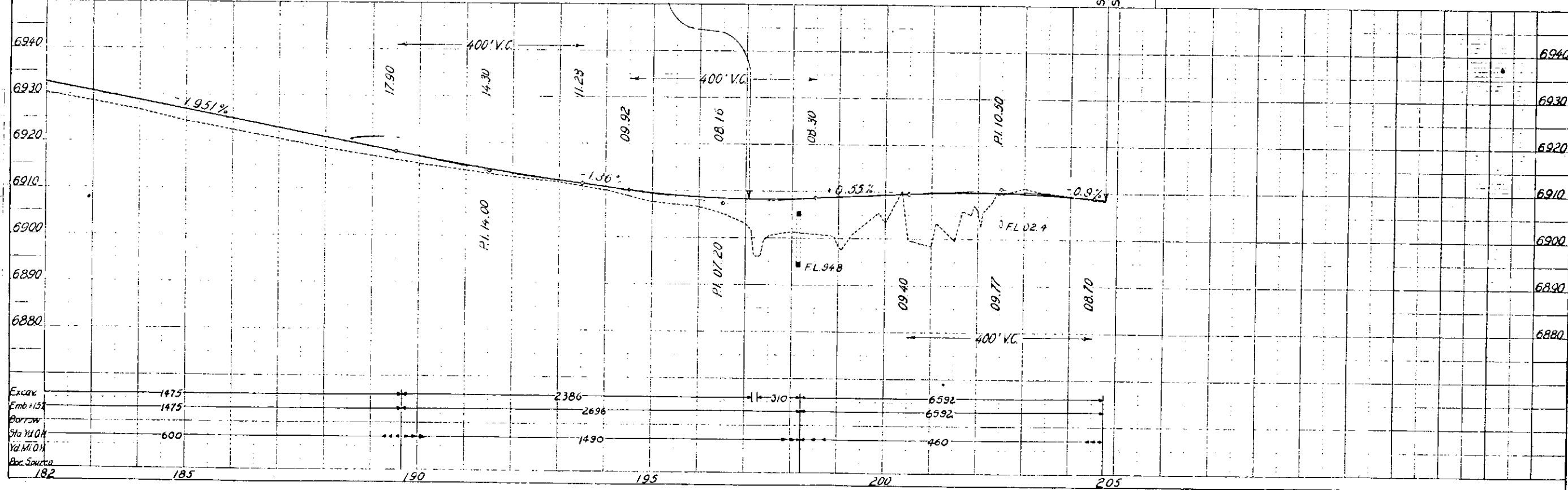
Sta 204+76 8 End FAP 294 AR =
Sta 36+37 5 AHEAD ORIG FAP 294 A

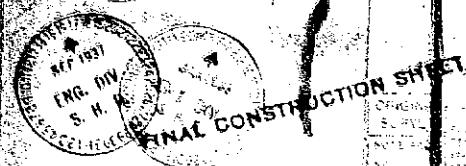
SW 1/4 SEC 29
T 36 N R 13 W
NMPM

SE 1/4 SEC 30
T 36 N R 13 W
NMPM

PLAN

PROFILE





As-built

213BEXT
213C
294AR

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	27-B				21-B		RIGHT OF WAY MARKERS			
			ROADWAY	ROADWAY	MANHOLES	TOTAL	ROADWAY	TOTAL	STATION	SIDE	No	
10a	Clearing & Grubbing Entire Project	Lump Sum	X	-	-	-	1461	-				
11b	Removal of 22 Structure	"	X	18	1	19	-	-	213BEXT	0+00	R+L	3
11c	Remove Concrete Side Walk	Sq Ft	0	1401	2675	8815	0	2993	213C	Total		3
12a	Removing Fence	Lin Ft	1500	20440	410	20550	780	22830		8+30	R	1
13a	Unclassified Excavation	Cu Yd	2442	3000	3000	8442	6718	6718		9+28	L	1
13d	Cut Slope Treatment	Li.	6.16	3.89	0	3.59	0.21	3.76		12+70	L	1
14a	Structural Excavation Dry	Cu Yd	0	0	0	0	0	0		13+75	R	1
14b	" " Dry Common	"	32.87	5770	1716	6114	1855	1855		41+48	R	1
14c	" " Wet rock	"	0	2.6	0	2.6	0	2.6		42+00	L	1
14d	" " Wet Common	"	0	477	0	477	104	581		64+38	L	1
18a	Station Yard Overhaul	Sta. Yd.	245	10000	9403	10248	3005	20142		67+10	R	1
18b	Yard Mile	Yd. mi.	0	3403	888.3	4291.3	2750	5241.3		71+38	R	1
24a	Gravel or Crushed Rock Surface	Ton	846.8	13037.8	4427.7	18412.3	789.9	20102.2		71+76	L	1
44a	Class "A" Concrete	Cu Yd	0	7411	3.5	77.6	1222	206.8	213C	100+60	R	1
44b	" "B"	"	11	2280	2.2	23.0	1.1	21.2		101+15	L	1
47	Reinforcing Steel	Lb	0	6285	255	6540	1458	7998		100+45	R	1
53a	15" Corrugated Metal Pipe	Lin Ft	0	36	0	36	0	36		101+40	L	1
53b	18" Corrugated Metal Pipe	Lin Ft	58	830	372	1260	70	1330	1560	107+00	R+L	4
53c	24" " " "	"	0	352	0	352	0	352		122+00	R	1
53d	36" " " "	"	0	84	0	84	0	84		126+24	R+L	4
55b	18" Corrugated Metal Siphon Pipe	"	0	100.8	79.8	180.6	0	180.6	Manholes	146+15	L	2
59	Relaying Pipe	"	0	186.0	0	186.0	0	186.0		168+05	L+R	4
74	Wire Cable Guard Fence	"	0	0	894	894	112	1006		Total		11
76a	Barbed Wire Fence, Treated Wood Posts	"	1335	7697	0	7697	1540	10572		181+14	L+R	2
76d	Combination Fence	"	0	20455	898	20455	0	20455		Total		20
76g	Barbed Wire Gates	Each	0	7	0	7	0	7		198+00	R	2
76h	Driveway Gates	"	0	13	0	13	0	13		209+78	L+R	4
76i	Walk Gates	"	0	4	0	4	0	4	294AR	Total		6
81a	Project Markers	"	1	0	0	0	1	2	COMBINED TOTAL			40
81b	Right of Way Markers	"	3	20	11	34	6	40				
82	Cattle Guards - 16' long	"	0	1	0	1	0	1				
85b	18" Trash Guards	"	0	2	2	4	0	4				
110B	No. 15 Special Inlets	"	0	0	4	4	0	4				
72a	6" Perforated Metal Pipe Underdrain	Lin Ft	0	1000	0	1000	0	1000				
72x	6" Perforated Pipe	"	0	0	0	0	60	60	120			
FORCE ACCOUNT ITEMS												
More Bank Building off R.O.W.												
" Frame " & Shed												

PLATING MATERIAL				
MATERIAL PLATED	Cu Yds PER STA.	QUANTITY REQUIRED	SOURCE OF MATERIAL	OVERHAUL STA. TO Yd. Mi.
STA. 11+11	119+00	62.2	15035	1151
168+05-194+78	194+78	62.2	26649	16342
195+00-197+00	197+00	78.0	26050	11330
TOTALS		20464	44507	23848

GRAVEL	
Box No.	QUANTITIES TONS
1	406.925
2	153.373
3	865.675
4	160.525
5	778.000
6	609.325
7	737.900
8	794.975
9	773.840
10	793.842
11	820.750
12	830.175
13	830.325
14	814.887
15	852.450
16	847.275
17	631.800
18	844.225
19	868.125
20	865.050
21	876.700
22	851.900
23	852.150
24	867.325
25	887.040
26	878.950
27	559.600
28	137.125
TOTAL	20,402.24
213BEXT	846.8 Tons
213C	12,837.8
213C-20	6427.7
294AR	789.9
Total	20,402.2 Tons

FENCE									
STATION	SIDE	Remove Fence Lin Ft	Build Fence Lin Ft	GATES					
				R Wire	D Wire	Walk			
0+00-6+00	R	1500	1335						
0+00-4+00	L	1500	1335						
6+00-30+80	R	4940	2500						
6+00-53+00	L	1070	4297						
30+80-120+00	R	1360							
53+00-120+00	L	7990							
121+76-126+25	R	410							
21+76-126+25	L								
168+05-197+00	R	4270							
168+05-193+00	L								
193+00-197+00	L	1610	400						
197+00-209+76	R	20350	7697	7	13	4			
197+00-209+76	L	780	880						
		780	1540						
COMBINED TOTAL		22830	10572	7	13	4			
213BEXT		1500	1335						
213C		20140	7697	7	13	4			
Manholes		410	880						
294AR		780	1540						
COMBINED TOTAL		22830	10572	7	13	4			

SHEET TOTALS

213BEXT 846.8 Tons
213C 12,837.8
213C-20 6427.7
294AR 789.9
Total 20,402.2 Tons

FAP 213 AR & 213 C

R.O.W. MARKERS

and Specifications

Approximate only.
be obtained as shown
of Structures as
vation." These
ions indicated on
subject to change
in Construction
Standard Super-

rs.
of Way and the
the Entire Project."
one headwall on

th a 4" thickness
et from edge of
operation is

d until after

travelled road-
n present road.
e. Also the
orary approaches

roject except as

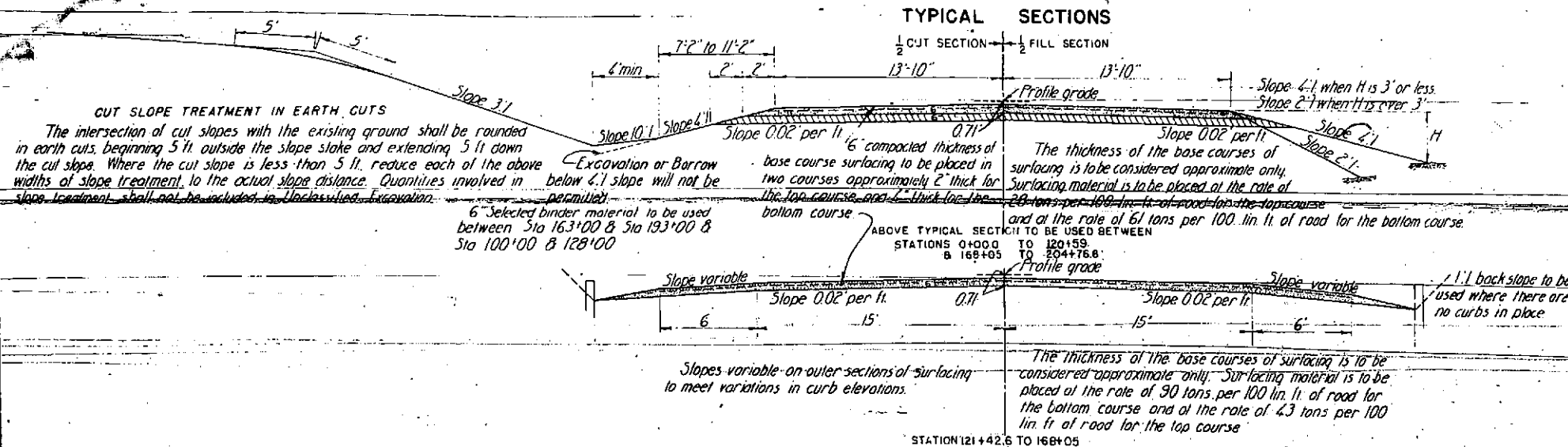
STATION	SIDE	NO.
FAP 213 C		
8+30	R	1
9+28	L	1
12+70	L	1
13+75	R	1
41+48	R	1
42+00	L	1
64+38	L	1
67+10	R	1
71+36	R	1
71+76	L	1
100+60	R	1
101+15	L	1
100+45	R	1
102+00	R	1
107+00	R & L	4
101+40	L	1
MANCOS		
122+00	R	1
126+24	L & R	4
154+75	L & R	2
166+15	L	2
168+05	L & R	4
TOTAL		13
FAP 213 C		
181+14	L & R	2
TOTAL		2
FAP 294 AR		
198+00	R	2
204+77	L & R	4
TOTAL		6
COMBINED TOTAL		40
F.A.P. 213 C	CONST.	DIV. N° 2
121+58	L	1

FED. ROAD DIST. NO.	STATE	COMB. FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	213 B EXT. 213C 6 294 AR	2	

SELECTED BINDER MATERIAL

Selected binder material shall be placed and spread on the subgrade approximately 6 inches loose thickness at rates indicated in table below.

This selected binder material shall be classified and paid for as "Unclassified Excavation." It is estimated that the material will be obtained in the vicinity of the pit indicated in tabulation below. The estimated quantities involved in the placing of this selected binder are also shown in tabulation below.



MATERIAL TO BE PLACED STA. TO STA.		CU YDS PER STA	APPROXIMATE QUANTITY REQ'D CU YDS	SOURCE OF MATERIAL	ESTIMATED OVERHAUL	
					STA. YD.	YD. MI.
100+00-119+00		71	1390	PIT 250' SOUTH STA 204+	15290	2160
168+05-183+00		71	1280	PIT 250' SOUTH STA 204+	9580	870
121+76-128+00		90 *	570	PIT 250' SOUTH STA 204+	6200	720
163+00-168+05		90	460	PIT 250' SOUTH STA 204+	5010	230
CONST. DIV No 2 119+00-120+59		71	120	Pit 250' South Sta. 204+	1320	170
121+24-121+76		90	40	Pit 250' South Sta. 204+	440	60
CONST DIV No 1 TOTAL		5-	4200		46080	3480
Const Div. No 2 TOTAL			150	Pit 250' South Sta. 204+	1760	230

R.O.W. MARKERS

STATION	SIDE	NO.
FAP 213C		
8130	R	1
9128	L	1
12170	L	1
13175	R	1
14148	R	1
22100	L	1
64136	L	1
67110	R	1
71136	R	1
71176	R	1
100160	L	1
101115	L	1
100145	R	1
100100	R	1
107100	RBL	4
101140	L	1
MANCOS		
122100	R	1
126124	LBR	4
154175	LBR	2
166115	L	2
168105	LBR	4
TOTAL		13
FAP 213C		
181174	LBR	2
TOTAL		21
FAP 294 AR		
198100	LBR	2
204177	LBR	4
TOTAL		6
COMBINED TOTAL		
FAP 213C	CONST	UN. M.
121158	L	

ITEM NO.	DESCRIPTION	UNIT	F.P. 218	F.A.P. 219C	CONST. DIV. NO. 1	FAP 29-4A		F.A.P. 219C	CONST. DIV. NO. 2	TOTAL
			EXT. R. ROADWAY	27'-8" ROADWAY	MANGOS ROADWAY 42'-0"	TOTAL	ROADWAY 27'-8"	COMBINED TOTAL	27'-8" ROADWAY	
10 a	Clearing & Grubbing The Entire Project	Lump Sum	.	.	.	.	.	.	.	.
11 b	Removal of 22 Structures	Lump Sum	18	7	19	3	22			
11 c	Remove concrete sidewalk	Sq. ft.	450	1590	2040		2040			
12 a	Removing fence	Lin. ft.	1500	20200	500	20700	800	23000		
13 c	Unclassified excavation	Cu yd.	1200	63300	11100	64400	9900	65500		
13 d	Gut slope treatment	M	.04	.31	.02	.33	.02	.36		
14 a	Dry rock excavation (Structural)	Cu Yd		30		30	10	40		10
14 b	Dry common excavation (structural)	Cu Yd		210	50	260	70	330		115
14 c	Wet rock excavation (structural)	Cu Yd		20		20	10	30		10
14 d	Wet common excavation (structural)	Cu Yd		150	20	170	50	220		1050
18 a	Station yard overhaul	Sta. yd.	2000	39600	10400	20000	2000	205000	25000	8000
18 b	Yard mile overhaul	Yd. mi.		2700	2000	4700		2700	200	100
26 a	Gravel or crushed rock surfacing	Ton	700	13000	6400	19400	800	20900	150	50
46 a	Class "A" concrete	Cu. Yd		72	4	76	130	206		1481
46 b	Class "B" concrete	Cu Yd		22	3	25	2	27		2212
47	Reinforcing steel	Lb.		6065	255	6320	11460	17780		48600
48	Structural Steel	Lb.								48900
53 a	15' corrugated metal culvert pipe	Lin. ft.			36	36		36		3300
53 b	18' corrugated metal culvert pipe	Lin. ft.		916	350	1266	86	1352		12200
53 c	24' corrugated metal culvert pipes	Lin. ft.		340		340		340		
55 b	18' corrugated metal siphon pipe	Lin. ft.		101	80	181		181		
55 c	24' corrugated metal siphon pipe	Lin. ft.		30		30		30		
55	Relaying pipe	Lin. ft.			184	184		184		
74	Wire cable guard fence	Lin. ft.			926	926	112	1038	286	
76 a	Borbed wire fence with treated wood posts	Lin. ft.	1280	1720		1720	1500	10500		
76 d	Combination wire fence with treated wood posts	Lin. ft.		20690	810	21500	100	21600	150	
76 g	Borbed wire gates	Each		4		4		4		
76 h	Driveway gates	Each		11		11		11		
76 i	Walk gates	Each		2		2		2		
81 a	Project markers	Each		1		1		1		
81 b	Right-of-way markers	Each		21	13	34	6	40		
82	Chain guards on bridge	Each			1	1		1		
85 b	18' Trash guards	Each		2	2	4		4		
100 b	No. 12 Special Inlet	Each			4	4		4		
42 a	Unrefined Bridge Timber	M ft. b.m.								0.5
46 c	Class "A" Concrete (Horizontal)									2
10 b	Clearing & Grubbing The Entire Project	Lump Sum								
10 c	FORCE ACCOUNT ITEMS:	Lump Sum								
	Move bank building off ROW Sta. 1271	Lump Sum								
	Move frame building shed off ROW Sta. 1271	Lump Sum								
80 b	Bronze name Plates	Each								1
89 a	Drain Pipe (Concrete floor) (3"x3'-0")	Each								10
ALTERNATE BIDS TO BE RECEIVED FOR REINFORCED CONCRETE CULVERT PIPE										
As an alternate for items No. 53a, 53b, and 53c the following items providing for reinforced concrete culvert pipe shall be bid upon:										
51 a	15' reinforced concrete culvert pipe	Lin. ft.			36	36		36		
51 b	18' reinforced concrete culvert pipe	Lin. ft.		916	350	1266	86	1352		
51 c	24' reinforced concrete culvert pipes	Lin. ft.		340		340		340		

Manaos City Limits

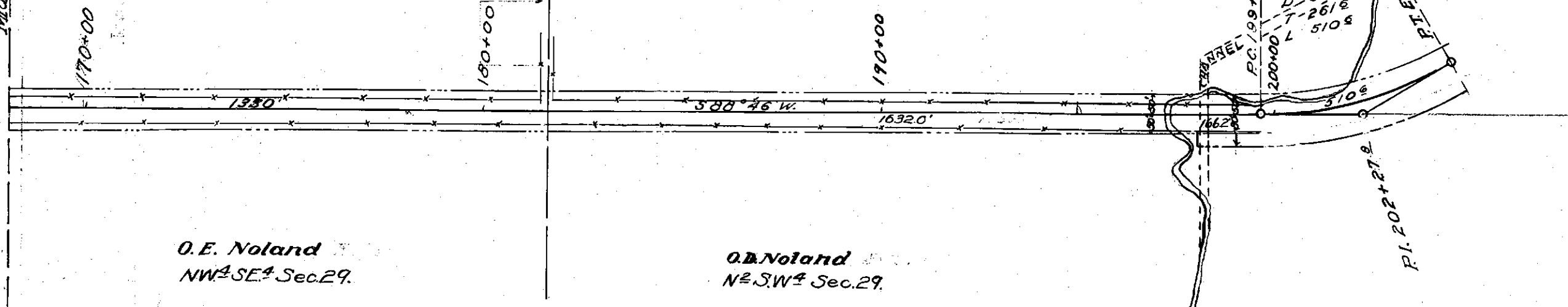
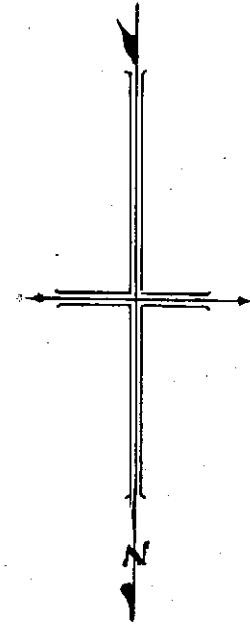
SEC. 29 T.36 N. R.13 W. N.M.P.M.

Hugo Weston
SW⁴ SE⁴ Sec. 29

Nelia Gawthrop Estate.
S² SW⁴ Sec. 29

O.E. Noland
NW⁴ SE⁴ Sec. 29.

O.E. Noland
N² SW⁴ Sec. 29.



**COLORADO STATE
HIGHWAY DEPARTMENT**

*Right Of Way Map
Montezuma County*

F.A.P. 213 C

Scale 300 Feet = 1 Inch