



COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.



r500001739

Description:

ROW Plans 11X17

Route # and Mile Points:

SH 145

Originating Office:

ROW/Survey

File Name:

F.A.P. 103_ROW(.PDF)

Box Location:

27 of 38

COLOR COPY OF
"ORIGINAL SET"
TO BE USED
FOR COPY
MACHINE

T 36 N R 9W

SE 16

STATE OF COLORADO

STATE HIGHWAY COMMISSION

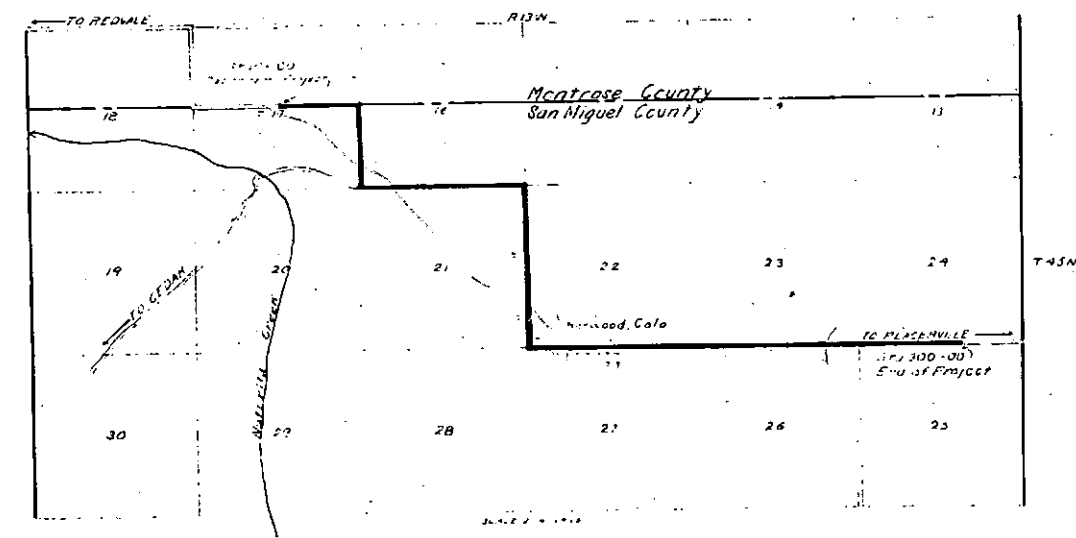
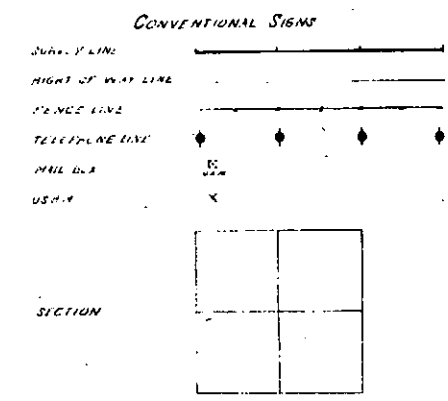
PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 103

STATE HIGHWAY No. 44 SAN MIGUEL COUNTY

PLAN 1 IN = 100 FT
 PROFILE 1 IN = 100 FT VERT 1 IN = 10 FT
 GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
 NET AND GROSS LENGTH OF PROJECT - 30.553 MILES

INDEX TO SHEETS

Sheet No.	Title	Page
2	Typical Cross-Sections and Summary Quantities	
3	Standard Concrete Box Culverts	
4	Double Box Culverts	
5	Concrete Headwalls	
6	Plan and Profile Sta. 0+00 to Sta. 60+00	
7	" " " 60+00 " 120+00	
8	" " " 120+00 " 180+00	
9	" " " 180+00 " 240+00	
10	" " " 240+00 " 300+00	
11	22'nc Cross-Sections	



RECOMMENDED FOR APPROVAL

CHIEF ENGR. STATE HWY. COM.

APPROVED

STATE HWY. COMMISSIONER

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER, BUREAU OF PUB. ROADS

RECOMMENDED FOR APPROVAL

CHIEF ENGR. BUREAU OF PUB. ROADS

APPROVED

DIRECTOR, BUREAU OF PUB. ROADS

STATE HIGHWAY DEPARTMENT
ENGINEERING DIVISION

Denver, Colorado.
June 16, 1921.

Mr. J. E. Maloney,
Assistant Engineer,
State Highway Department,
Denver, Colorado.

Dear Sir:

The force account bill on this estimate for
Colorado Federal Aid Project No. 103, was authorized by
Mr. Vandemoer, for the following reason.

We acquired several corners of farm land in
order to get a long radius curve at the turns. These
pieces of land were given on condition that we reset the
fence on a line thirty (30) feet from our center line of
road.

On one of these corners, it was necessary to
clear a few piñon trees.

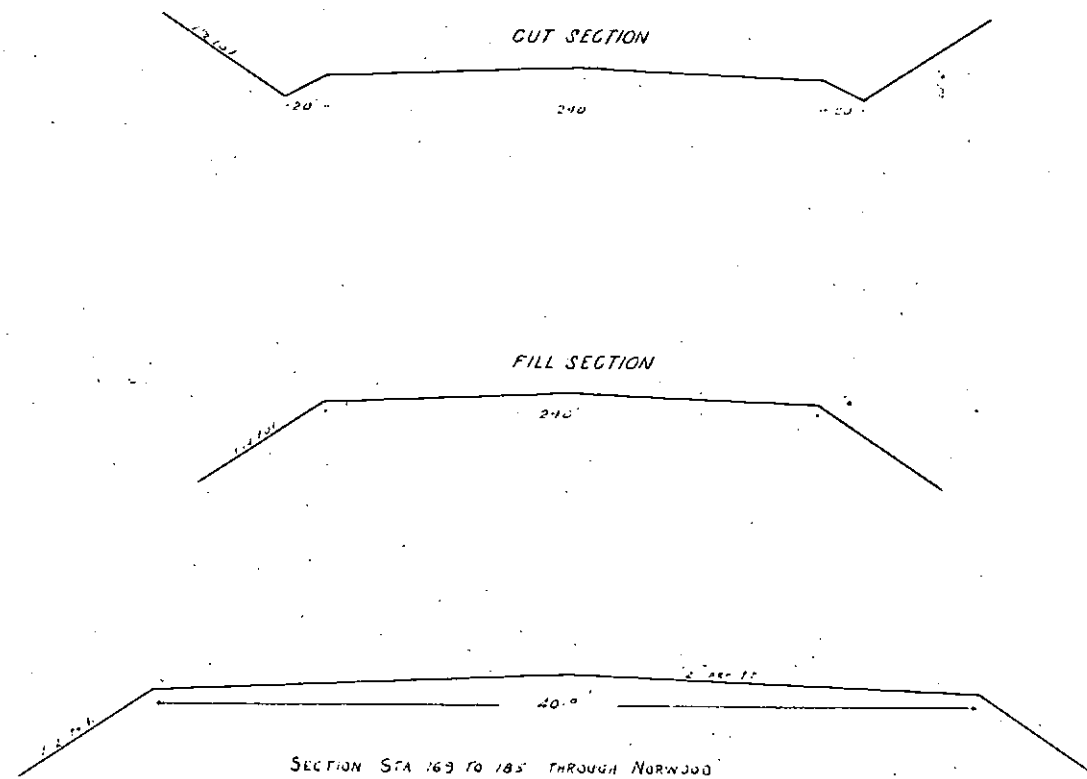
Yours very truly,

JRC - W

TYPICAL CROSS-SECTIONS OF IMPROVEMENT AND SUMMARY OF QUANTITIES

3 103 2 23
Revised 11-11-54

TYPICAL SECTIONS.

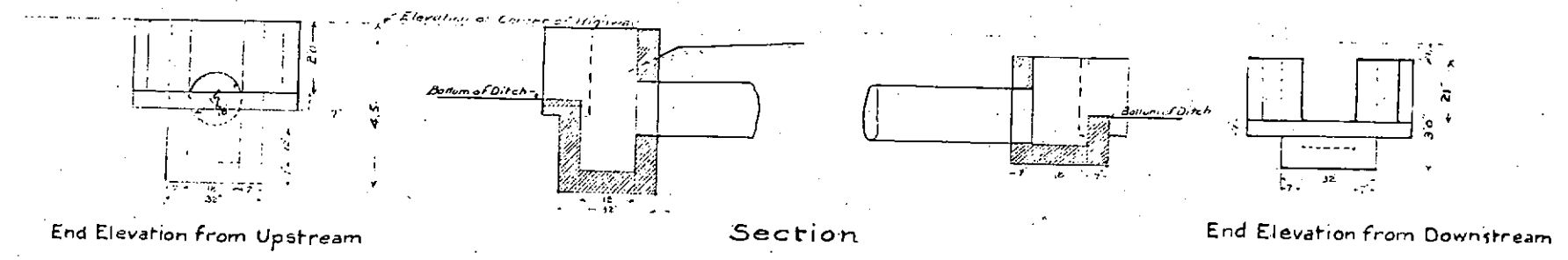


SUMMARY OF QUANTITIES.

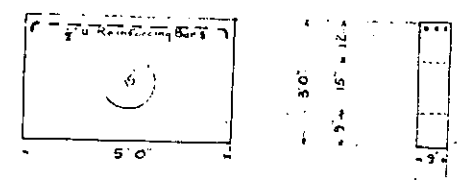
SUMMARY OF QUANTITIES.		Quantity	Unit.
Item			
Grading:			
Excavation, common		1,514.5	Cu. Yds.
Borrow Fill		28,773.5	" "
Overhaul		69,000.0	Sta. Yds.
Structures:			
	<u>Class 'A' Conc.</u>	<u>Class 'B' Conc.</u>	<u>Steel</u>
Quantities for Conc. Box Culverts (Sheets No 364)	211.7		18,300.0
" " Culvert Headwalls (Sheets No 2A & 5)		729	918.0
" " Concrete in Siphons (Sheet No 2A)		<u>194</u>	
Total Class 'A' Concrete	<u>211.7</u>		211.7
Total Class 'B' Concrete		<u>913</u>	923
Total Reinforcing Steel		<u>19,218.0</u>	19,218.0
15" Corro. metal pipe for culverts			878.0
18" " " " " "			310.0
24" " " " " "			140.0
15" Corro. metal pipe for siphons			206.0
18" " " " " "			325.0
Wrecker Box Drain			130

Note: All Corro. metal culverts to be provided with handrails.

SIPHON at Stations 26+50, 32+20, 119+65, 164+74 and 216+80, and 1.5 Cu. Yds. C.I.B. Conc.



HEADWALL For Side Ditch Culverts 0.4 Cu. Yds. C.I.B. Conc.



List of Stations near which are
required above described Culverts
with Headwalls.

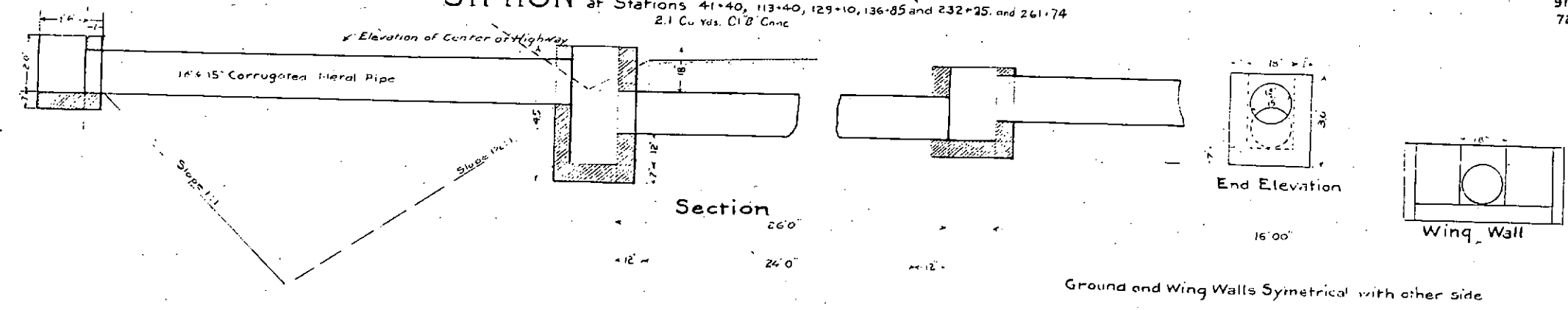
33+00 R 14	172+00	211+50 R 10
67+10 R 14	174+10 R 14	222+78 R 14
67+35 L 10	178+00 R 30	232+50 R 10
	178+75	234+25 L 14
112+40 R 10	180+40	236+40 R 14
112+60 L 10	181+00 R 20	248+05 R 10
120+10	181+27 R 14	245+95 L 10
134+5 L 14	182+05	269+60 R 14
131+63 R 10	183+55 R 10	274+35 L 10
146+85 R 14	184+30 R 10	286+90 R 10
156+85 L 14	186+60 R 14	287+85 L 10
156+20 L 14	188+05	294+10 L 10
160+20 R 10	192+90	261+30 L 14
168+00 L 10	200+65 L 10	
169+50 L 10	211+20 L 10	

36 Culverts = 712 Ft.
918 Lbs. Steel
72 Headwalls = 28.8 cu. yds.

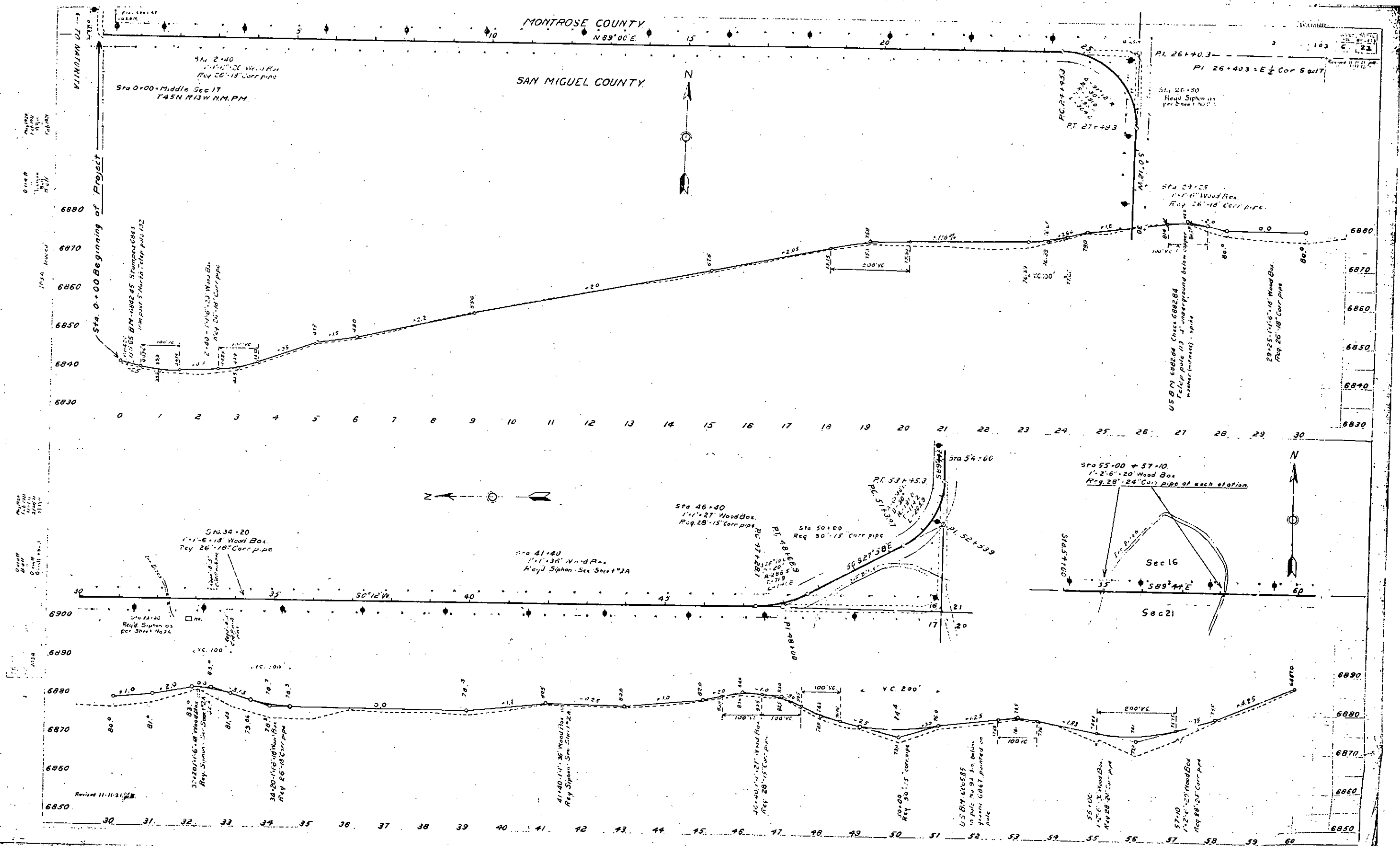
Station	Corr. metal pipe	
26+50	15"	18'
32+20	24"	26'
119+65	24"	26'
129+10	24"	26'
136+85	24"	26'
164+74	24"	26'
216+80	24"	26'
Total	206	326

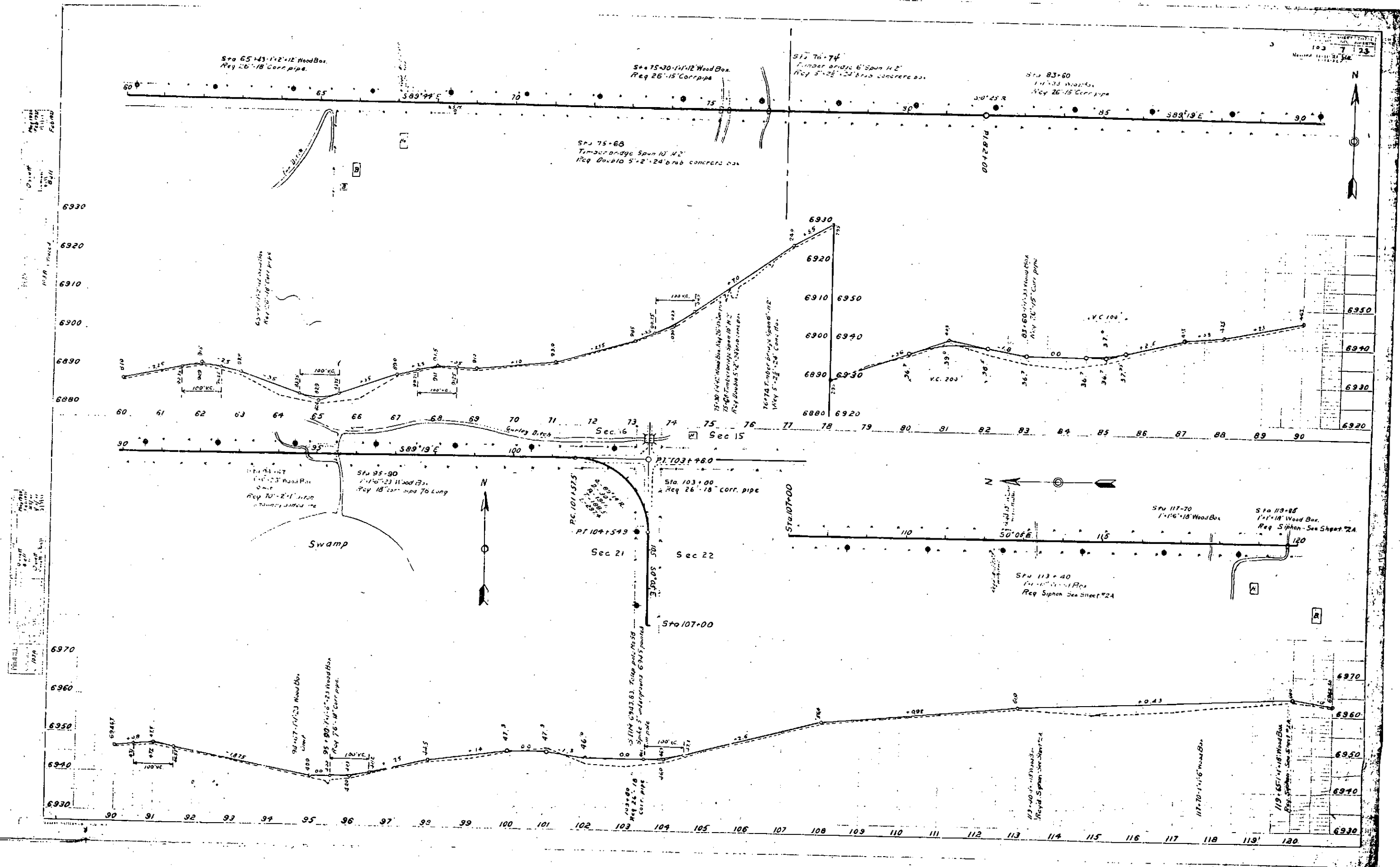
Culvert walls estimated C.I.B. Conc. 11.4

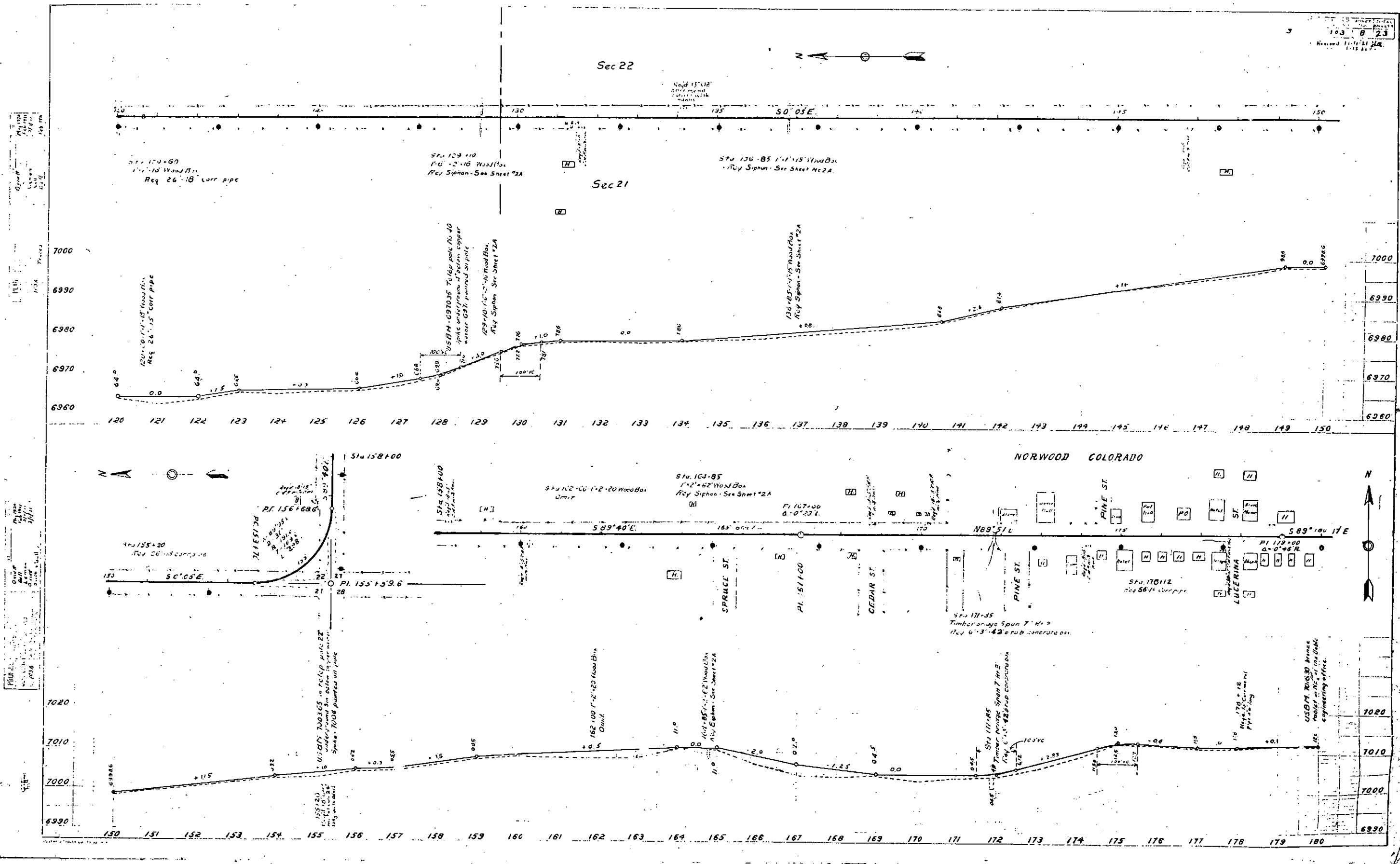
SIPHON at Stations 41+40, 113+40, 129+10, 136+85 and 232+25, and 261+74 2.1 Cu. Yds. C.I.B. Conc.

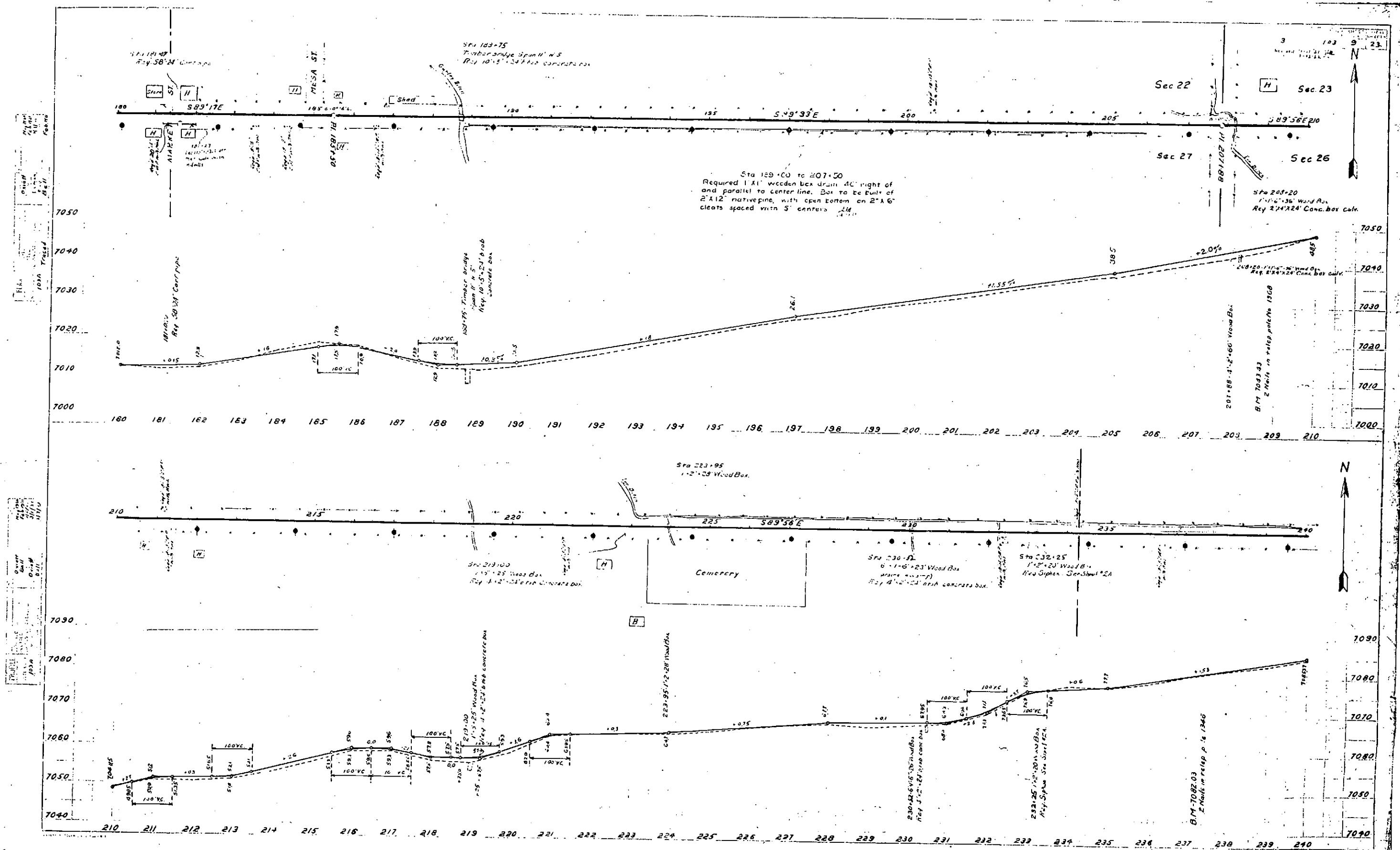


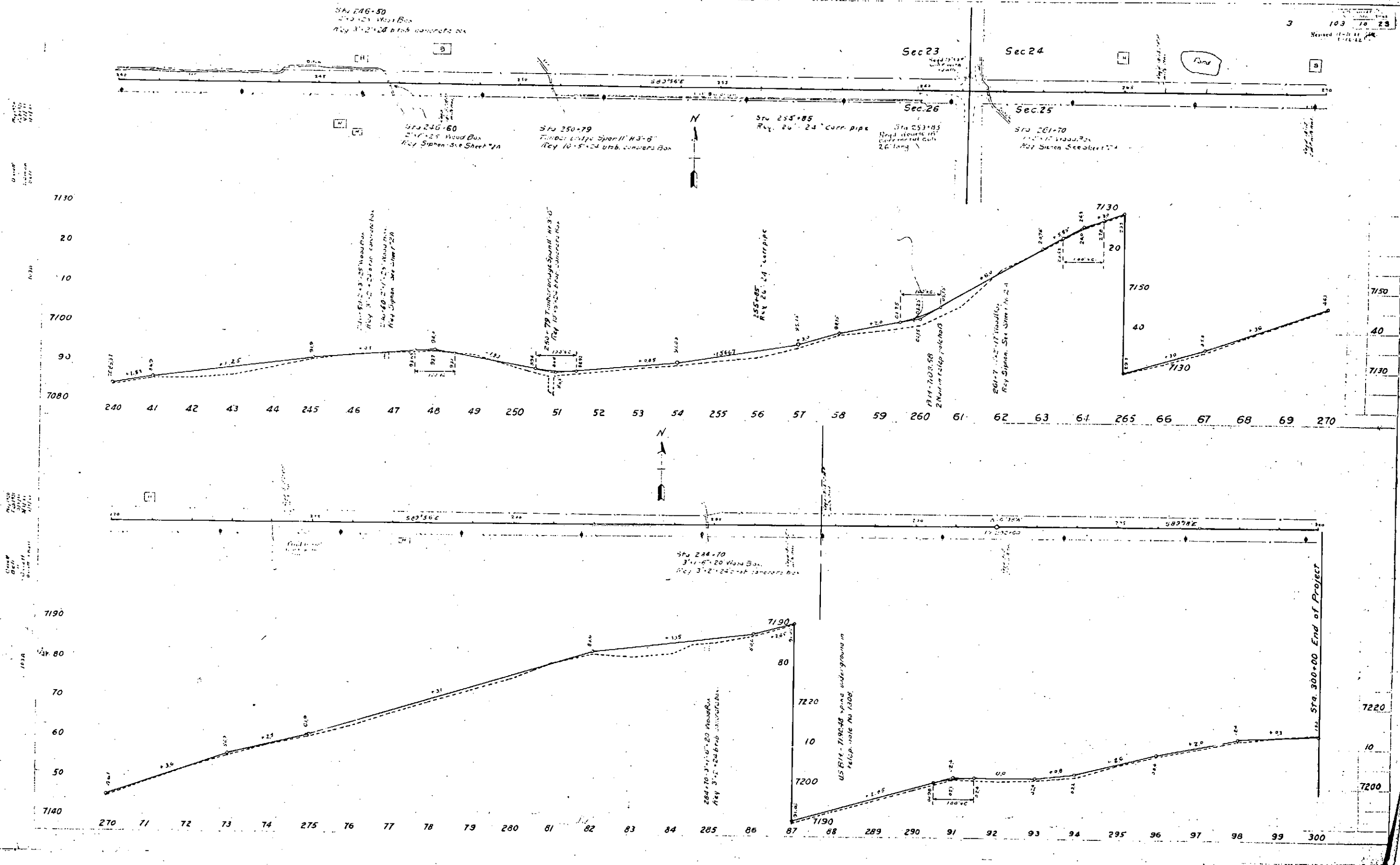
Total C.I.B. Conc. for siphons: 19.4 Cu. Yds.
15" Corr. metal pipe = 206.0 Lin. Ft.
18" Corr. metal pipe = 326.0 "





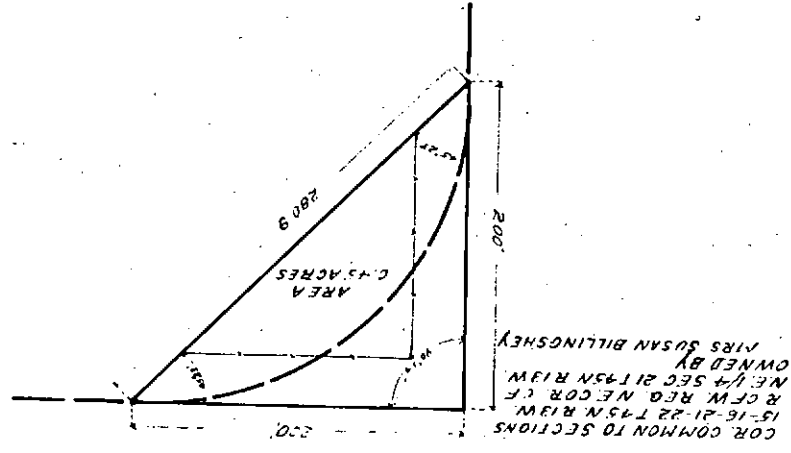
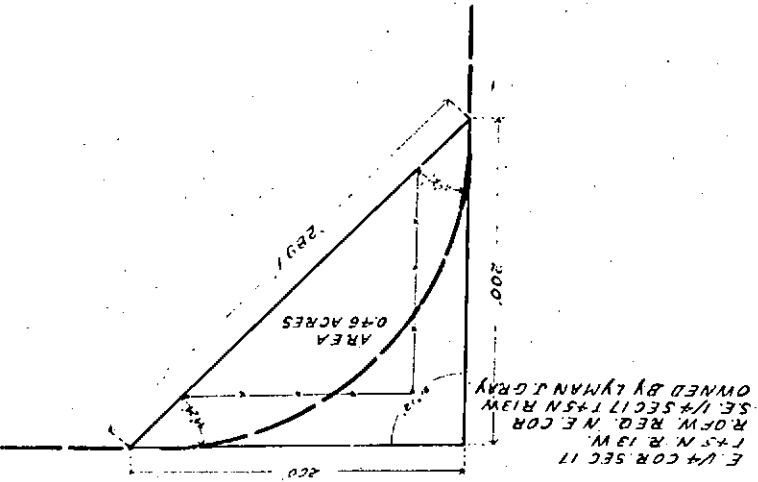




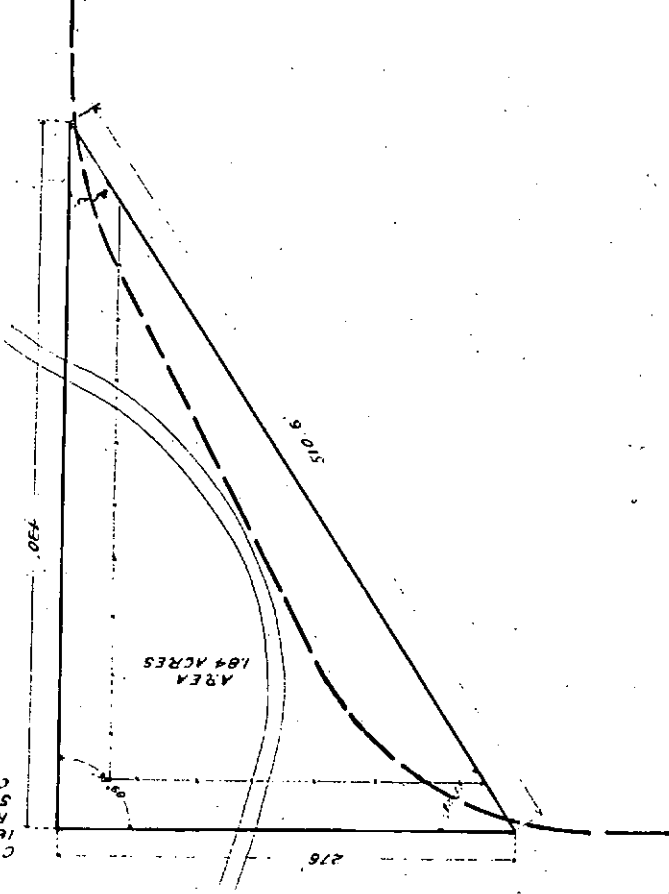


RIGHT OF WAY REQUIRED ON F.A.P. NO. 103

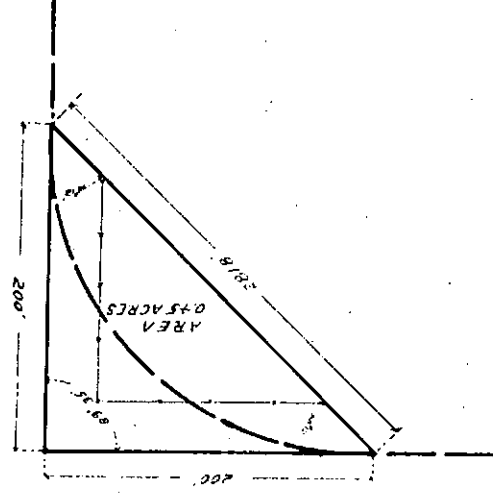
SCALE 1"=50'



COR. COMMON TO SECTIONS
16-17-20-21 T4S N R13W NW 1/4
R.O.W. REQ. SW COR SW 1/4
SEC 16 T4S N R13W NW 1/4
OWNED BY SCHOOL SECTION



COR. COMMON TO SECTIONS
21-22-27-28 T4S N R13W NW 1/4
R.O.W. REQ. SW COR OF SW 1/4
SEC 22 T4S N R13W NW 1/4
OWNED BY HOMER OLIVER



STATE OF COLORADO

STATE HIGHWAY COMMISSION

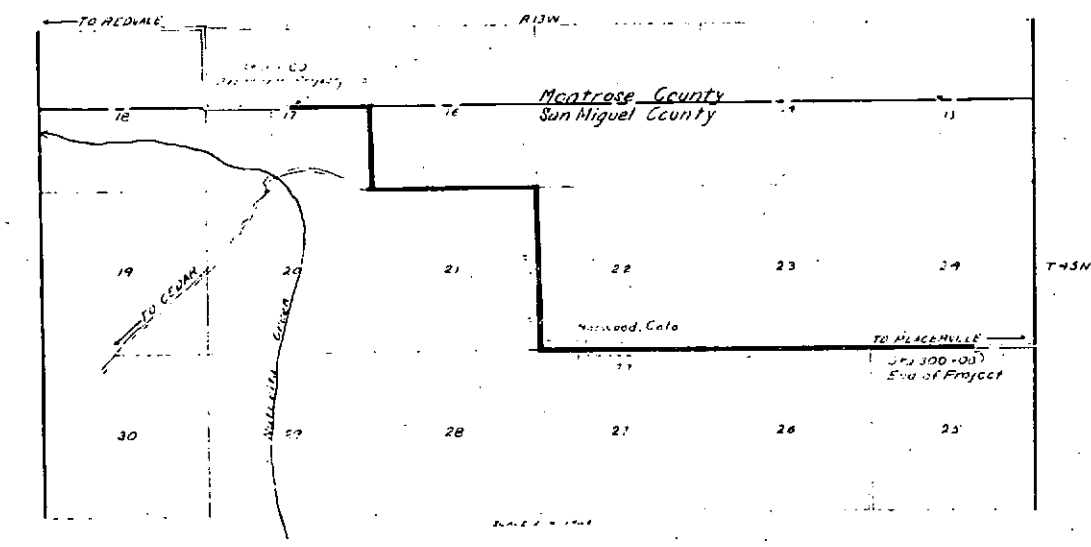
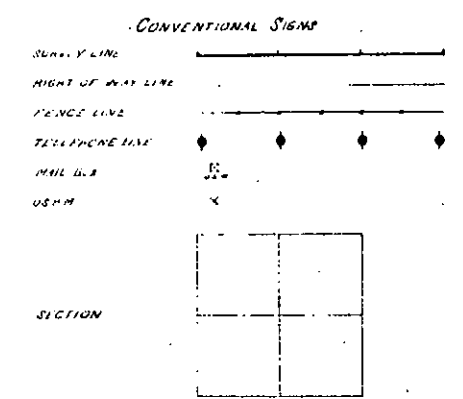
PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 103

STATE HIGHWAY No. 44 SAN MIGUEL COUNTY

PLAN 1 IN = 100 FT.
 PROFILE 1 IN = 100 FT. VERT. 1 IN = 10 FT.
 GRADE LINE ON PROFILE IS SHOWN AS SHADE OF FINISHED ROAD
 42' AND CROSS LENGTH OF PROJECT 3000.34' 1.561 MILES

INDEX TO SHEETS

Sheet No.	Title	Page
2	Typical Cross-Sections and Summary Quantities	
3	Standard Concrete Box Culverts	
4	" Double Box Culverts	
5	" Concrete Headwalls	
6	Plan and Profile Sta. 0+00 to Sta. 60+00	
7	" " " 60+00 " 120+00	
8	" " " 120+00 " 180+00	
9	" " " 180+00 " 240+00	
10	" " " 240+00 " 300+00	
11-22	inc. Cross-Sections	
23	Plan and Profile	



RECOMMENDED FOR APPROVAL

CHIEF ENGINEER, STATE HIGHWAY COMMISSION

APPROVED

STATE HIGHWAY COMMISSIONER

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER, BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER, BUREAU OF PUBLIC ROADS

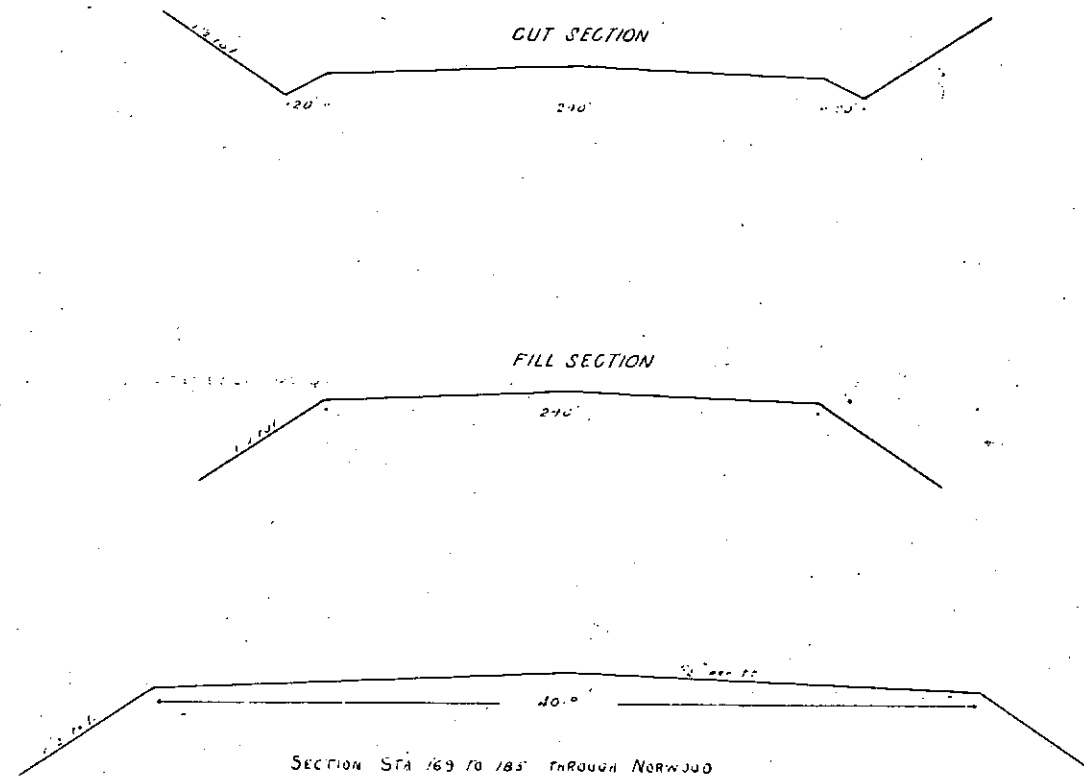
APPROVED

DIRECTOR, BUREAU OF PUBLIC ROADS

TYPICAL CROSS-SECTIONS OF IMPROVEMENT AND SUMMARY OF QUANTITIES

3
103 2 28
Revised 11/12/28

TYPICAL SECTIONS.

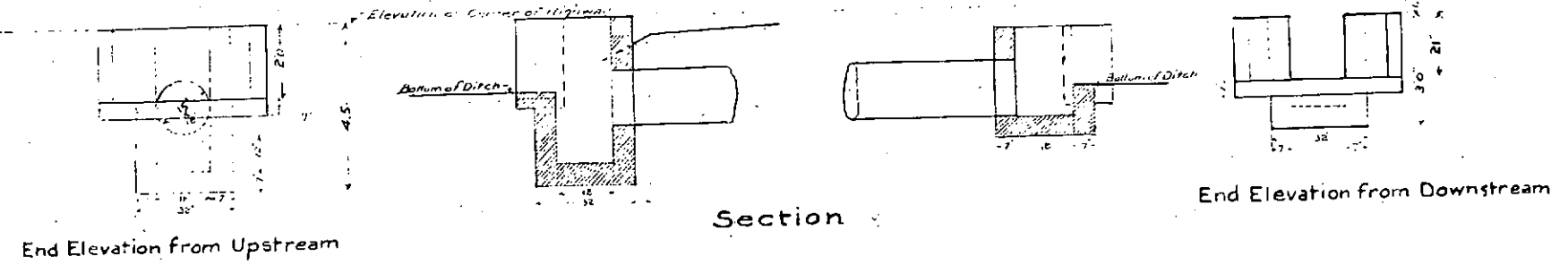


SUMMARY OF QUANTITIES.

SUMMARY OF QUANTITIES				Quantity	Unit.
Item					
Grading:					
Excavation, Common				1,514.5	Cu. Yds.
Borrow Fill				28,773.5	" "
Overhaul				65,000.0	Sta. Yds.
Structures:					
	<u>Class 'A' Conc.</u>	<u>Class 'B' Conc.</u>	<u>Steel</u>		
Quantities for Conc. Box Culverts (Sheets No 384)	211.7		18,300.0		
" " Culvert Headwalls (Sheets No 2A & 5)		729	918.0		
" " Concrete in Siphons (Sheet No 2A)		<u>19.4</u>			
Total Class 'A' Concrete	<u>211.7</u>			211.7	Cu. Yds.
Total Class 'B' Concrete		<u>913</u>		923	" "
Total Reinforcing Steel			<u>19,218.0</u>	19,218.0	Pounds
15" Cor. metal pipe for culverts				878.0	Lin. Ft.
18" " " " " "				310.0	" "
24" " " " " "				140.0	" "
15" Cor. metal pipe for siphons				206.0	" "
18" " " " " "				326.0	" "
Wooden Box Drain				130	M. Bd. Ft.

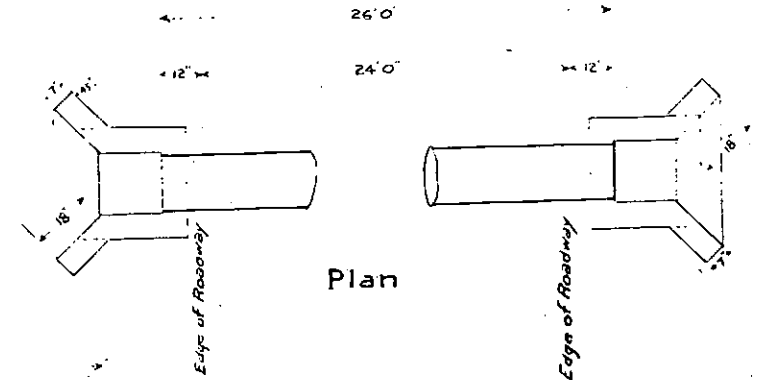
Note: All Cor. metal culverts to be provided with headwalls.

SIPHON at Stations 26+50, 32+20, 119+65, 164+74 and 216+60, and 1.5 Cu. Yds. C/B Conc.

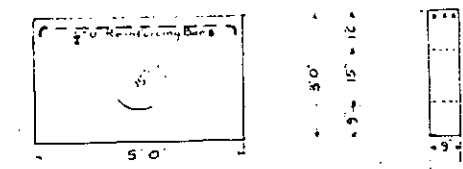


Station	Corr metal pipe	
26+50	15"	18'
32+20	18"	24'
119+65	60"	26'
129+10	26"	60'
136+85	60"	60'
164+74	60"	60'
216+60	60"	60'
232+25	60"	60'
261+74	60"	60'
Total	200	326

Direct weight of C/B Conc. 1.5



HEADWALL For Side Ditch Culverts 0.4 Cu. Yds. C/B Conc.

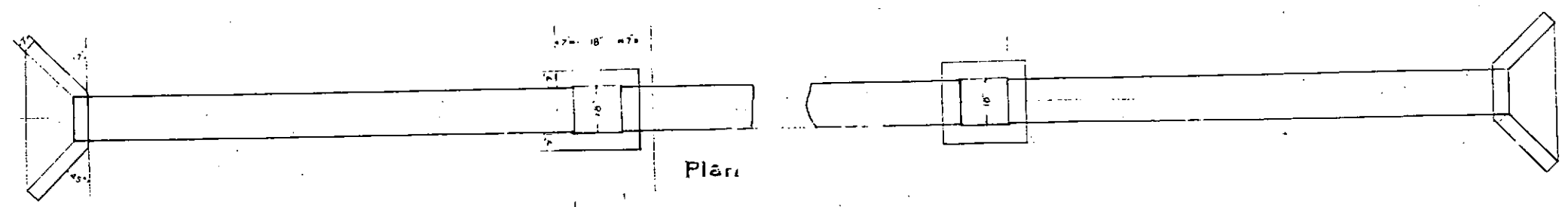
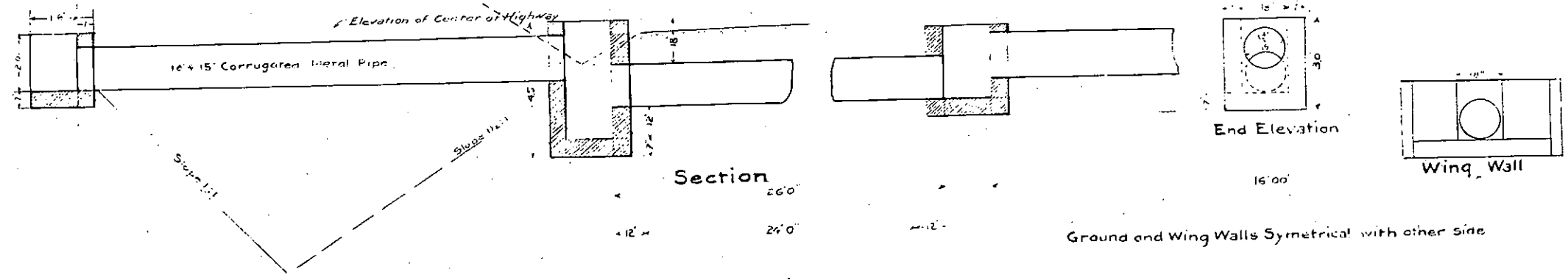


List of Stations near which are required above described Culverts with Headwalls.

33+60 R	172+20	211+50 R
67+10 R	174+10 R	222+70 R
67+35 L	178+00 R	232+50 R
112+40 R	178+75	234+25 L
112+60 L	180+40	236+40 R
120+10	181+00 R	248+05 R
134+5 L	181+27 R	265+55 L
131+63 R	182+85	269+60 R
146+85 R	183+55 R	274+35 L
156+85 L	184+30 R	286+70 R
158+20 L	186+60 R	287+85 L
160+20 R	188+85	294+10 L
165+20 L	192+90	261+30 L
169+50 L	200+65 L	
	211+20 L	

36 Culverts = 712 ft.
 918 Lbs Steel
 72 Headwalls = 28.8 cu yds

SIPHON at Stations 41+40, 113+40, 129+10, 136+85 and 232+25, and 261+74 2.1 Cu. Yds. C/B Conc.



Total C/B Conc. for Siphons: 19.4 Cu. Yds.
 15" Corr metal pipe: 200 Lbs
 18" Corr metal pipe: 326 Lbs

MONTROSE COUNTY
N 89° 06' E
SAN MIGUEL COUNTY



Sta 2+40
1'-2'-6" Wood Box
Reg 26'-18" Cor pipe

Sta 0+00-Middle Sec 17
T45N R13W NM.RM.

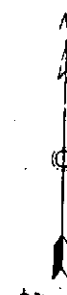
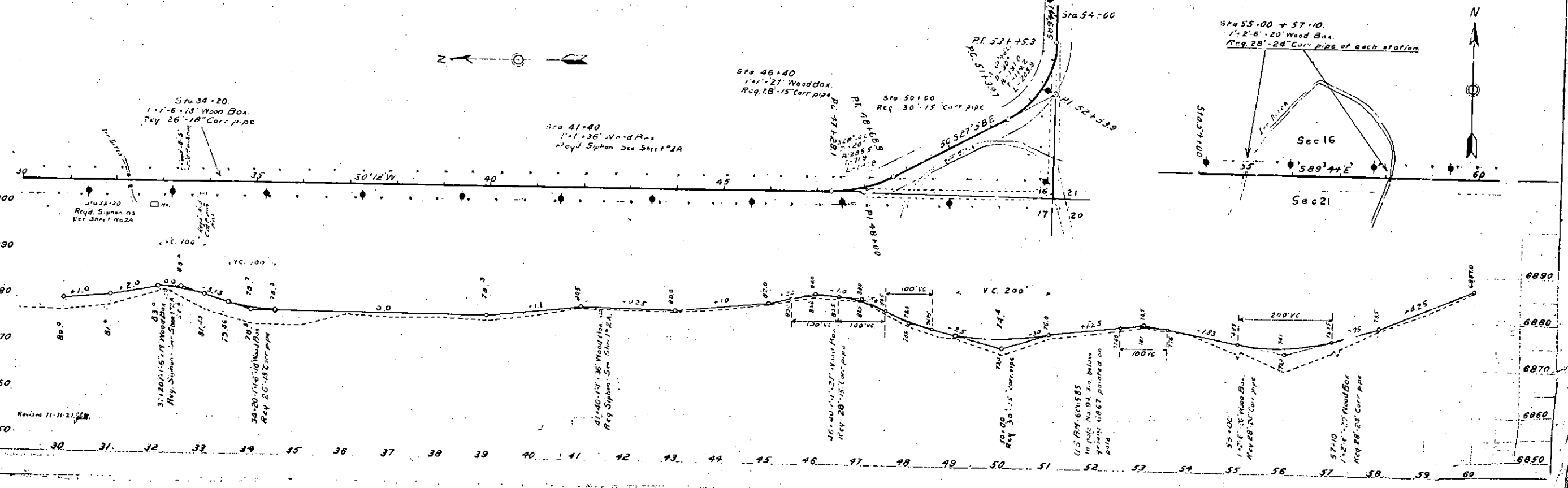
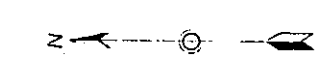
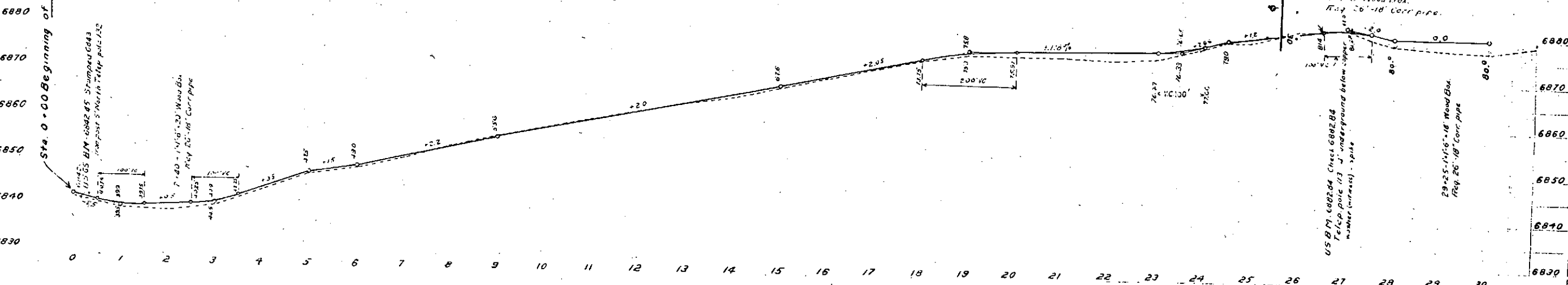
PI 26+40.3
PI 26+40.3 = E 1/4 Cor Sec 17

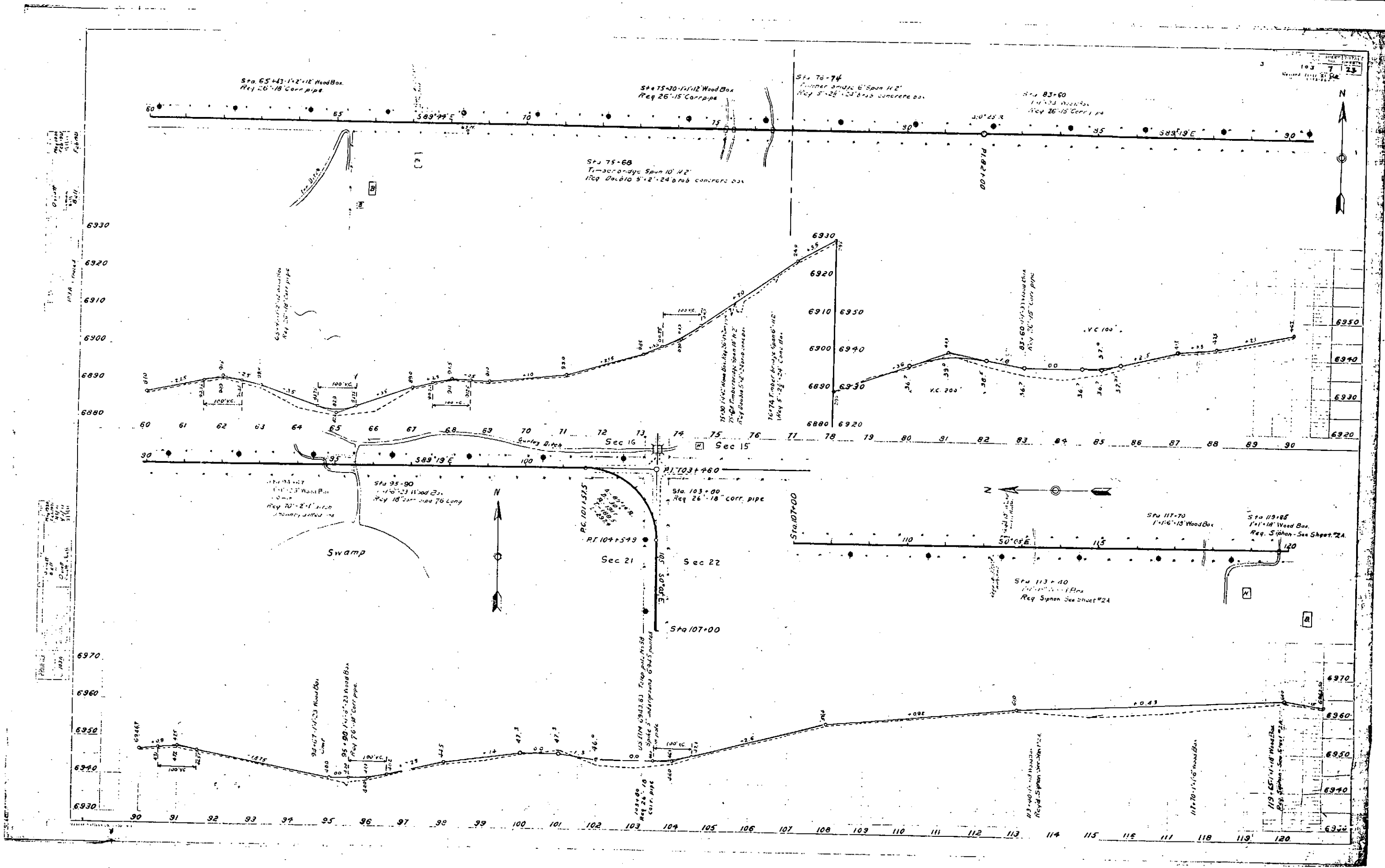
Sta 26+50
Regd Siphon as
per Sheet No. 21

Sta 29+25
1'-2'-6" Wood Box
Reg 26'-18" Cor pipe

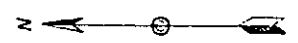
US BM 6882.84
Telco pole 113 J underground below upper
marked (wireless) spike

29+25-1'-6"-18" Wood Box
Reg 26'-18" Cor pipe

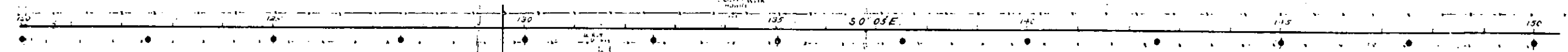




Sec 22



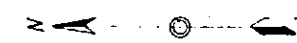
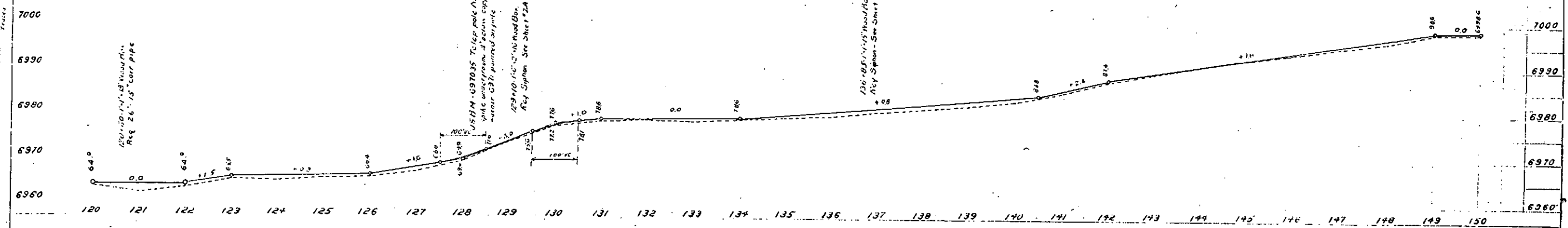
Sec 21



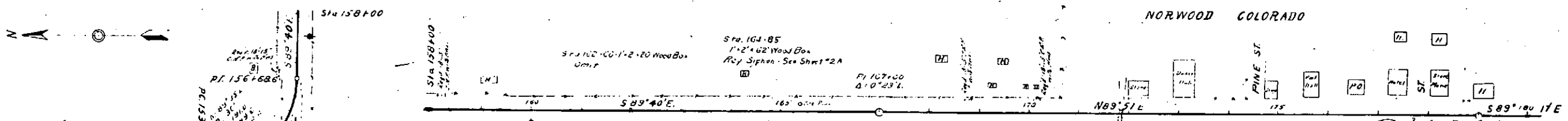
Sta. 120+67
120x100-14x18 Wood Box
Req. 26' 18" Cur. pipe

Sta. 129+10
120x100-14x18 Wood Box
Req. Siphon - See Sheet #2A

Sta. 136+85
120x100-14x18 Wood Box
Req. Siphon - See Sheet #2A



NORWOOD COLORADO



Sta. 155+20
120x100-14x18 Wood Box
Req. 26' 18" Cur. pipe

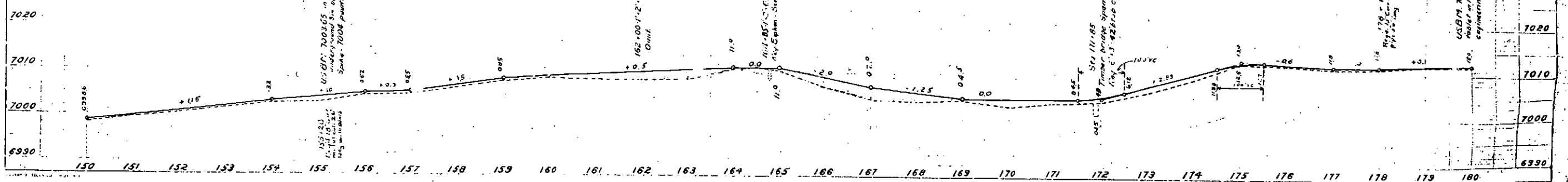
Sta. 162+00
120x100-14x18 Wood Box
Omit

Sta. 164+85
120x100-14x18 Wood Box
Req. Siphon - See Sheet #2A

PI 167+00
S 89° 40' E

Sta. 171+35
Timber bridge Span 7' H 2
Req. 4' 3" 42' 0" sub. concrete box

Sta. 178+12
Req. 58' 14" Cur. pipe



PI 153+76

Sta. 158+00

PI 155+59.6

Sta. 158+00

PI 153+76

Sta. 158+00

PI 153+76

Sta. 158+00

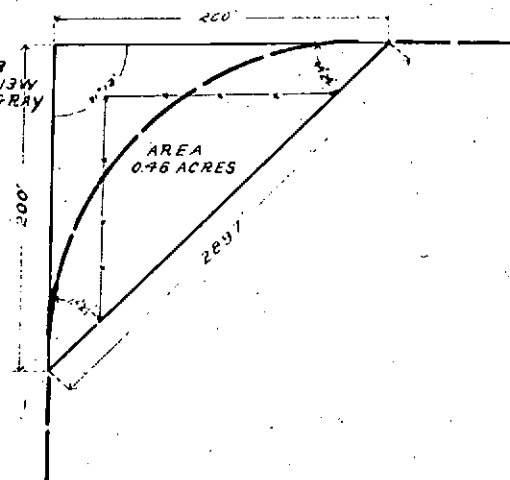
PI 153+76

Sta. 158+00

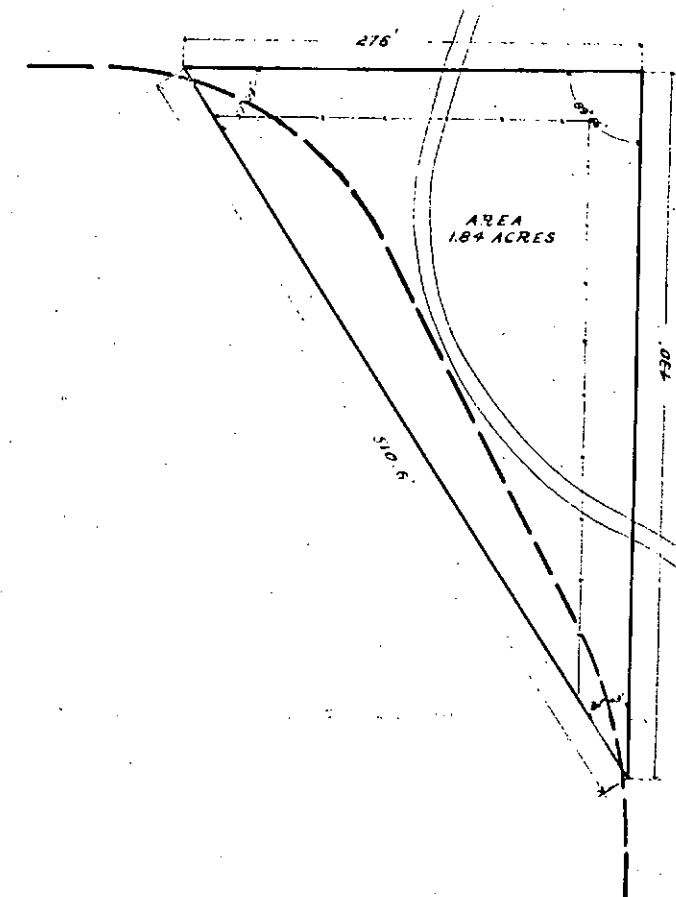
PI 153+76

RIGHT OF WAY REQUIRED ON F. A. P. NO. 103

E 1/4 COR SEC 17
T45N R13W
R.O.F.W. REQ. N.E. COR
S.E. 1/4 SEC 17 T45N R13W
OWNED BY LYMAN J. GRAY

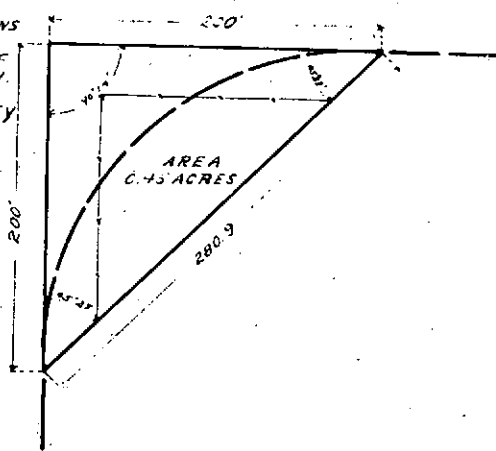


COR. COMMON TO SECTIONS
16-17-20-21 T45N R13W N.M.P.M.
R.O.F.W. REQ. S.W. COR. SW 1/4
SEC 16 T45N R13W N.M.P.M.
OWNED BY SCHOOL SECTION.



SCALE 1" = 50'

COR. COMMON TO SECTIONS
15-16-21-22 T45N R13W
R.O.F.W. REQ. N.E. COR. C.F.
N.E. 1/4 SEC 21 T45N R13W
OWNED BY
MRS. SUSAN BILLINGSHEY



COR. COMMON TO SECTIONS
21-22-27-28 T45N R13W N.M.P.M.
R.O.F.W. REQ. SW COR. OF SW 1/4
SEC 22 T45N R13W N.M.P.M.
OWNED BY HOMER OLIVER

