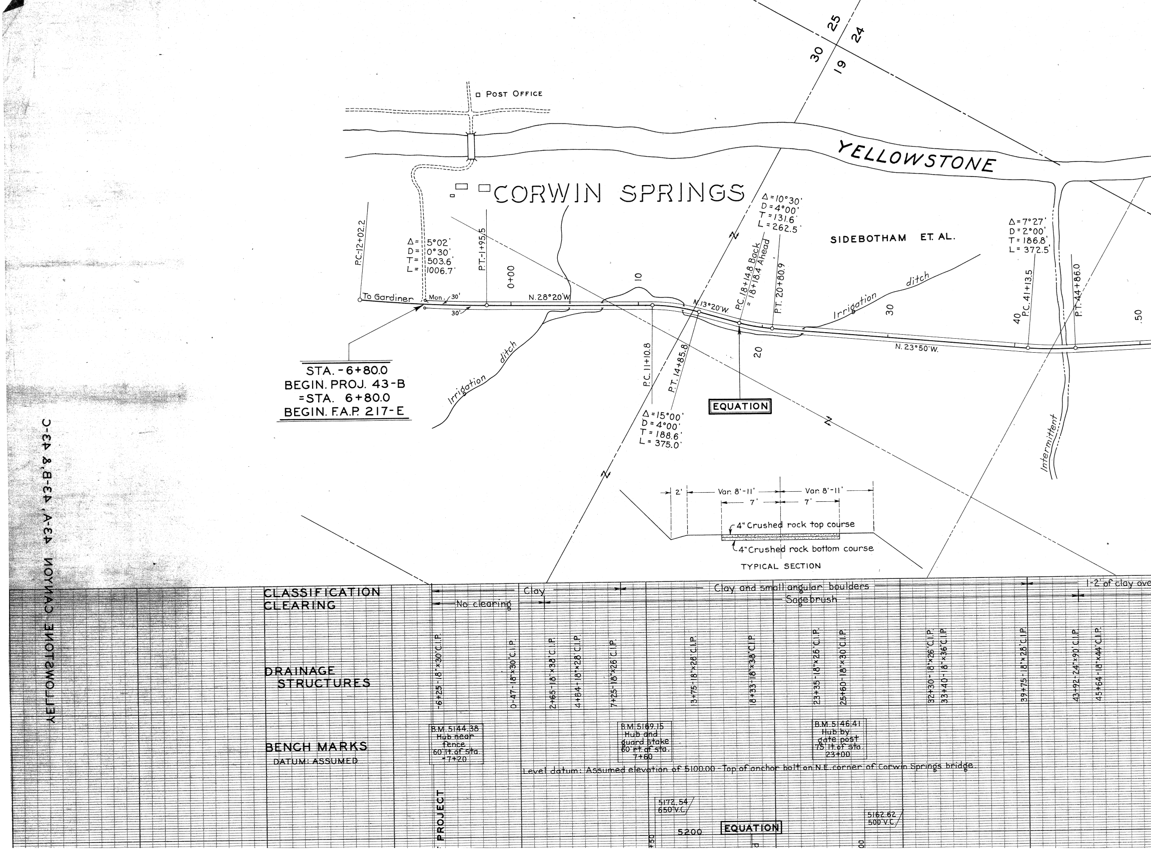
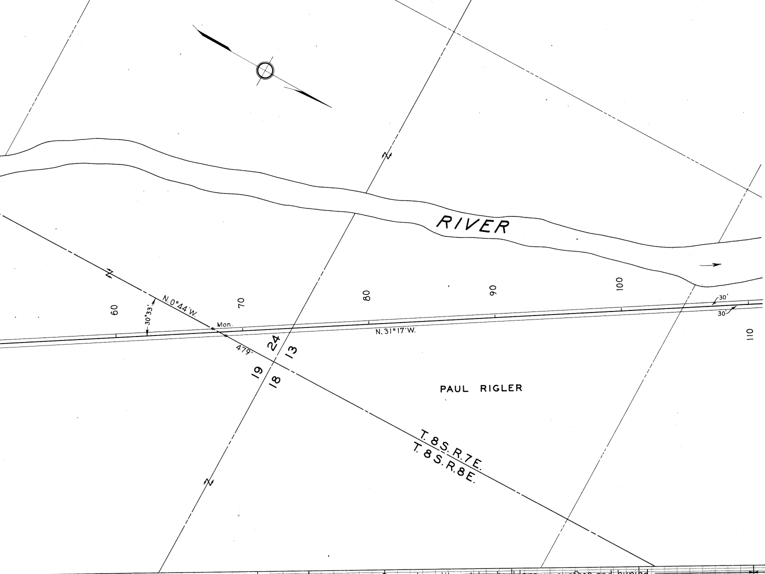
YELLOWSTONE CANYON 43-A, 43-B & 43-C



□ POST OFFICE
YELLOWSTONE
CORWIN SPRINGS
SIDEBOTHAM ET. AL.
30
25
19
24
P.C.-12+02.2
Δ = 5°02'
D = 0°30'
T = 503.6'
L = 1006.7'
P.T.-1+95.5
0+00
To Gardiner
Mon.
30'
30'
N.28°20'W.
10
Irrigation ditch
STA. -6+80.0
BEGIN. PROJ. 43-B
=STA. 6+80.0
BEGIN. F.A.P. 217-E
P.C. 11+10.8
P.T. 14+85.8
Δ = 15°00'
D = 4°00'
T = 188.6'
L = 375.0'
N.13°20'W.
P.C. 18+14.8 Back
= 18+18.4 Ahead
Δ = 10°30'
D = 4°00'
T = 131.6'
L = 262.5'
P.T. 20+80.9
20
EQUATION
Irrigation ditch
30
N.23°50'W.
40
P.C. 41+13.5
Δ = 7°27'
D = 2°00'
T = 186.8'
L = 372.5'
P.T. 44+86.0
50
Intermittent
2'
Var. 8'-11'
Var. 8'-11'
7'
7'
4" Crushed rock top course
4" Crushed rock bottom course
TYPICAL SECTION
CLASSIFICATION
CLEARING
Clay
Clay and small angular boulders
1-2' of clay ove
No clearing
Sagebrush
DRAINAGE STRUCTURES
-6+25-18"×30' C.I.P.
0-47-18"×30' C.I.P.
2+65-18"×38' C.I.P.
4+64-18"×28' C.I.P.
7+25-18"×26' C.I.P.
13+75-18"×28' C.I.P.
18+33-18"×38' C.I.P.
23+35-18"×26' C.I.P.
25+60-18"×30' C.I.P.
32+30-18"×26' C.I.P.
33+40-18"×36' C.I.P.
39+75-18"×28' C.I.P.
43+92-24"×90' C.I.P.
45+64-18"×44' C.I.P.
BENCH MARKS
DATUM: ASSUMED
B.M. 5144.38 Hub near fence 60' lt. of Sta. -7+20
B.M. 5169.15 Hub and guard stake 60' rt. of sta. 7+60
B.M. 5146.41 Hub by gate post 75' lt. of sta. 23+00
Level datum: Assumed elevation of 5100.00 - Top of anchor bolt on N.E. corner of Corwin Springs bridge.
PROJECT
5172.54
650' V.C.
5200
EQUATION
5162.62
500' V.C.
+50
00


RIVER
60
70
80
90
100
110
30°33'
N.0°44'W.
Mon.
479'
N.31°17'W.
30'
30'
19
24
18
13
PAUL RIGLER
T.8S.R.7E.
T.8S.R.8E.

**CLASSIFICATION**
**CLEARING**

r small angular boulders, some cemented — Some clay with angular boulders on surface and buried
Cultivated field - no clearing — Sagebrush

**DRAINAGE STRUCTURES**

50+75-18"×28' C.I.P.
52+21-36"×40' C.I.P.
54+75-18"×28' C.I.P.
59+15-18"×28' C.I.P.
62+76-18"×26' C.I.P.
65+04-18"×46' C.I.P.
69+70-18"×30' Rein. concrete syphon
70+62-18"×26' C.I.P.
73+73-18"×28' C.I.P.
80+60-18"×38' C.I.P.
83+89-18"×28' C.I.P.
85+29-18"×32' C.I.P.
91+23-18"×30' C.I.P.
100+20-18"×28' C.I.P.
109+60-18"×26' C.I.P.

**BENCH MARKS**

DATUM: ASSUMED

B.M. 5177.09
Nail in
corner post
75' rt. of sta.
53+00

B.M. 5176.31
Nail in
fence post
30' rt of sta.
73+50

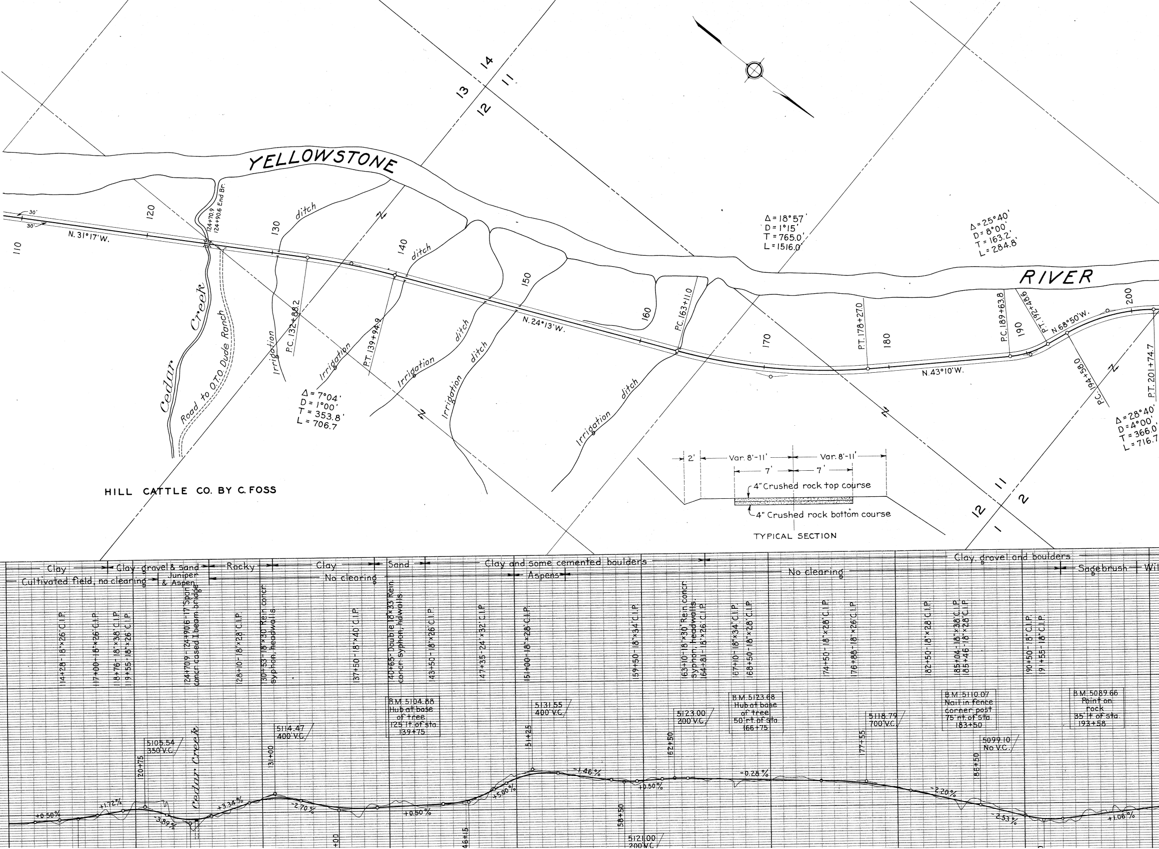
B.M. 5128.75
Point on
rock
50' rt. of sta.
88+90

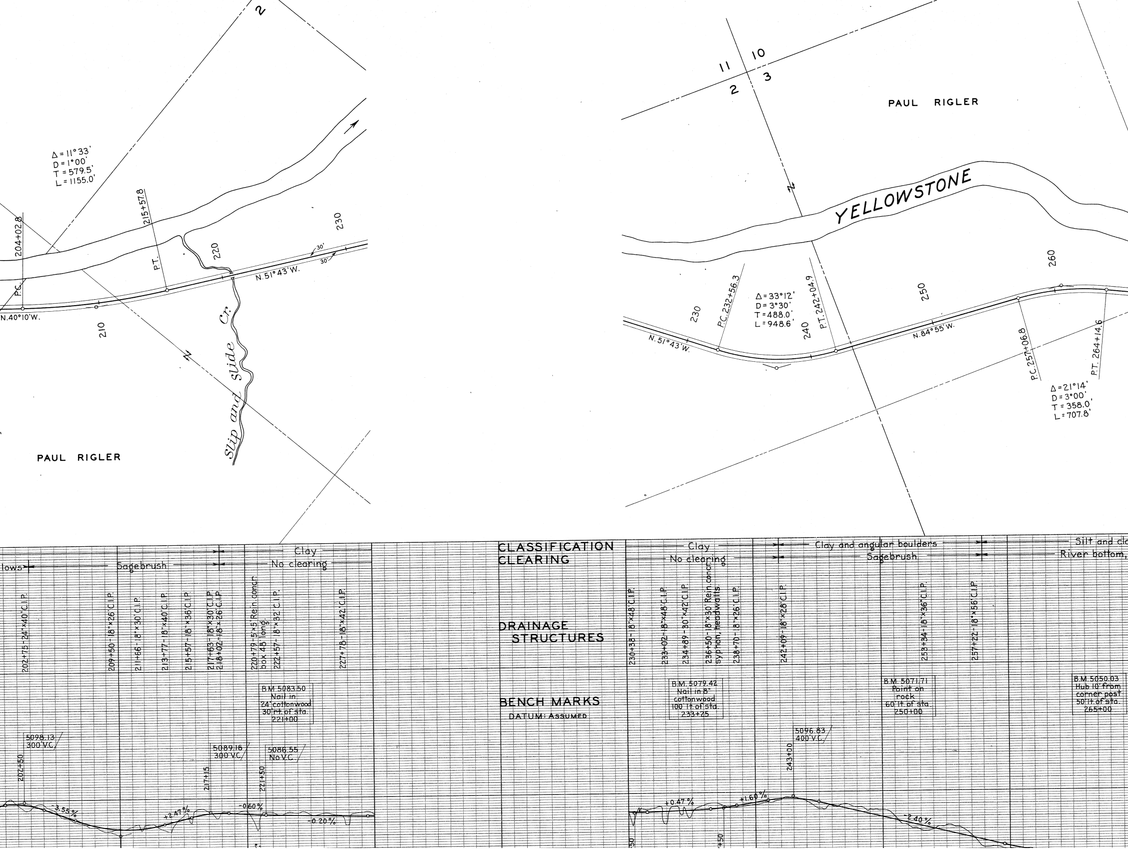
B.M. 5102.81
Hub at
fence post
50' right sta
106+75

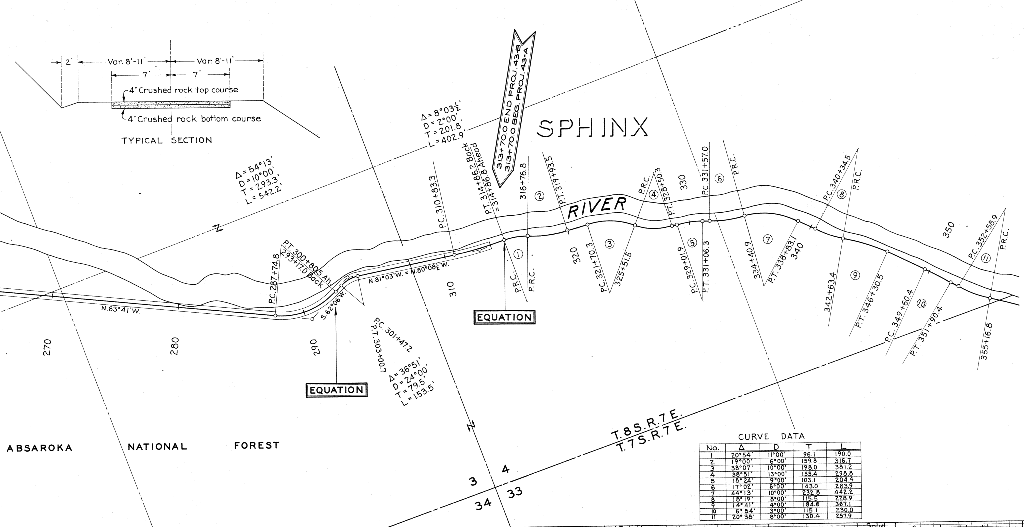
5184.72
850' V.C.
56+00

5171.24
200' V.C.
69+25

5175.90
450' V.C.
74+80

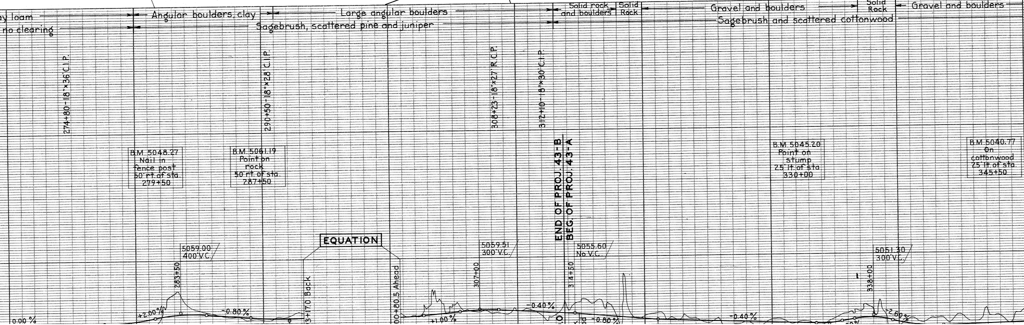

YELLOWSTONE
RIVER
Cedar Creek
Road to O.T.O. Dude Ranch
124+70.9
124+90.6 End Br.
HILL CATTLE CO. BY C. FOSS
110
120
130
140
150
160
170
180
190
200
30'
30'
N. 31°17'W.
N. 24°13'W.
N. 43°10'W.
N. 68°50'W.
Irrigation ditch
Irrigation ditch
Irrigation ditch
Irrigation ditch
Irrigation ditch
P.C. 132+88.2
P.T. 139+94.9
P.C. 163+11.0
P.T. 178+27.0
P.C. 189+63.8
P.T. 192+48.6
P.C. 194+58.0
P.T. 201+74.7
Δ = 7°04'
D = 1°00'
T = 353.8'
L = 706.7
Δ = 18°57'
D = 1°15'
T = 765.0'
L = 1516.0'
Δ = 25°40'
D = 8°00'
T = 163.2'
L = 284.8'
Δ = 28°40'
D = 4°00'
T = 366.0'
L = 716.7
13
14
12
11
12
11
1
2
2'
Var. 8'-11'
Var. 8'-11'
7'
7'
4" Crushed rock top course
4" Crushed rock bottom course
TYPICAL SECTION
Clay
Cultivated field, no clearing
Clay gravel & sand
Juniper & Aspen
Rocky
Clay
No clearing
Sand
Clay and some cemented boulders
Aspens
No clearing
Clay, gravel and boulders
Sagebrush
Wil
114+28 - 18"×26' C.I.P.
117+00 - 18"×26' C.I.P.
118+76 - 18"×38' C.I.P.
119+55 - 18"×26' C.I.P.
124+70.9 - 124+90.6 - 17' Span concr. cased I beam bridge
128+10 - 18"×28' C.I.P.
130+53 - 18"×30' Rein. concr. syphon, headwalls.
137+50 - 18"×40' C.I.P.
140+65 - Double 18"×33' Rein. concr. syphon, hdwalls.
143+50 - 18"×26' C.I.P.
147+35 - 24"×32' C.I.P.
151+00 - 18"×28' C.I.P.
159+50 - 18"×34' C.I.P.
163+10 - 18"×30' Rein. concr. syphon, headwalls.
164+81 - 18"×26' C.I.P.
167+10 - 18"×34' C.I.P.
168+50 - 18"×28' C.I.P.
174+50 - 18"×28' C.I.P.
176+88 - 18"×26' C.I.P.
182+50 - 18"×28' C.I.P.
185+04 - 18"×38' C.I.P.
185+46 - 18"×28' C.I.P.
190+50 - 18" C.I.P.
191+55 - 18" C.I.P.
B.M. 5104.88 Hub at base of tree 125' lt. of sta. 139+75
B.M. 5123.68 Hub at base of tree 50' rt. of sta. 166+75
B.M. 5110.07 Nail in fence corner post 75' rt. of sta. 183+50
B.M. 5089.66 Point on rock 35' lt. of sta. 193+58
120+75
5105.54
350' V.C.
131+00
5114.47
400' V.C.
+00
46+15
151+25
5131.55
400' V.C.
58+50
5121.00
200' V.C.
162+50
5123.00
200' V.C.
177+55
5118.79
700' V.C.
188+50
5099.10
No V.C.
+0.50%
+1.72%
-3.89%
+3.34%
-2.70%
+0.50%
+5.00%
-1.46%
+0.50%
-0.28%
-2.20%
-2.53%
+1.06%

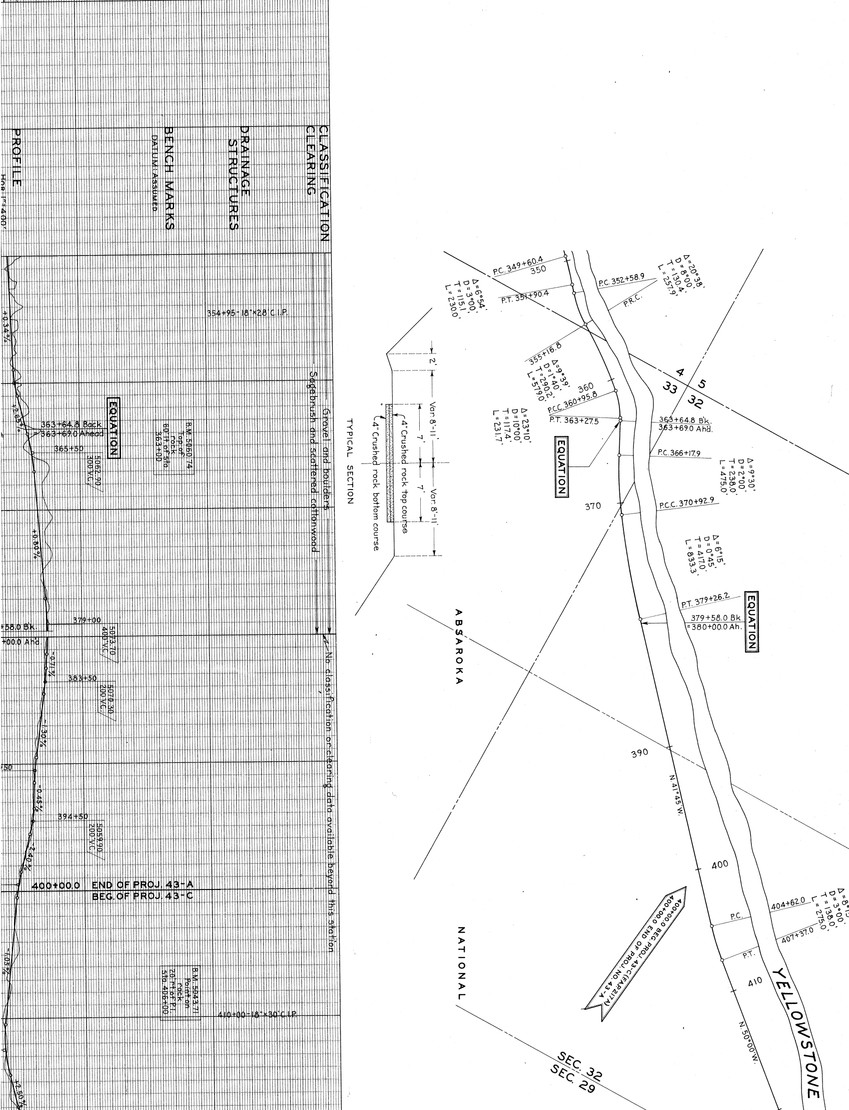

2
Δ = 11°33'
D = 1°00'
T = 579.5'
L = 1155.0'
204+02.8
P.C.
N.40°10'W.
210
215+57.8
P.T.
220
N.51°43'W.
230
30'
30'
Slip and Slide Cr.
PAUL RIGLER
11
10
2
3
PAUL RIGLER
YELLOWSTONE
230
P.C. 232+56.3
Δ = 33°12'
D = 3°30'
T = 488.0'
L = 948.6'
240
P.T. 242+04.9
250
N.84°55'W.
N.51°43'W.
260
P.C. 257+06.8
P.T. 264+14.6
Δ = 21°14'
D = 3°00'
T = 358.0'
L = 707.8'
CLASSIFICATION
CLEARING
lows
Sagebrush
Clay
No clearing
Clay
No clearing
Clay and angular boulders
Sagebrush
Silt and cl
River bottom,
DRAINAGE STRUCTURES
202+75-24"×40' C.I.P.
209+50-18"×26' C.I.P.
211+66-18"×30' C.I.P.
213+77-18"×40' C.I.P.
215+57-18"×36' C.I.P.
217+63-18"×30' C.I.P.
218+02-18"×26' C.I.P.
220+79-5'×5' Rein. concr. box 48' long.
222+57-18"×32' C.I.P.
227+78-18"×42' C.I.P.
230+38-18"×48' C.I.P.
233+02-18"×48' C.I.P.
234+89-30"×42' C.I.P.
236+50-18"×30' Rein. concr. syphon, headwalls.
238+70-18"×26' C.I.P.
242+09-18"×28' C.I.P.
253+34-18"×36' C.I.P.
257+22-18"×56' C.I.P.
BENCH MARKS
DATUM: ASSUMED
B.M. 5083.50 Nail in 24" cottonwood 30' rt. of sta. 221+00
B.M. 5079.42 Nail in 8" cottonwood 100' lt. of sta. 233+25
B.M. 5071.71 Point on rock 60' lt. of sta. 250+00
B.M. 5050.03 Hub 10' from corner post 50' lt. of sta. 265+00
202+50
5098.13
300' V.C.
217+15
5089.16
300' V.C.
221+50
5086.55
No V.C.
243+00
5096.83
400' V.C.
-3.55%
+2.47%
-0.60%
-0.20%
+0.47%
+1.60%
-2.40%
+50
50

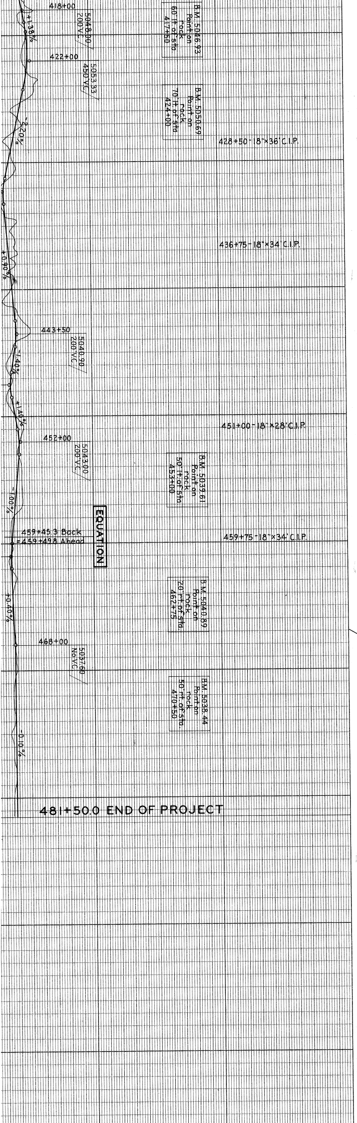

2'
Var. 8'-11'
Var. 8'-11'
7'
7'
4" Crushed rock top course
4" Crushed rock bottom course
TYPICAL SECTION
Δ = 54°13'
D = 10°00'
T = 293.3'
L = 542.2'
Δ = 8°03½'
D = 2°00'
T = 201.8'
L = 402.9'
313+70.0 END PROJ. 43-B
313+70.0 BEG. PROJ. 43-A
SPHINX
RIVER
N
N.63°41'W.
P.C. 287+74.8
P.T. 300+80.5 Ah.
293+17.0 Back
S.62°06'W.
N.81°03'W. = N.80°08½'W.
P.C. 301+47.2
P.T. 303+00.7
Δ = 36°51'
D = 24°00'
T = 79.5'
L = 153.5'
EQUATION
EQUATION
P.C. 310+83.3
P.T. 314+86.2 Back
= 314+86.8 Ahead
316+76.8
P.T. 319+93.5
P.R.C.
P.R.C.
P.C. 321+70.3
325+51.5
P.R.C.
P.T. 328+50.3
P.C. 329+01.9
P.T. 331+06.3
P.C. 331+57.0
P.R.C.
334+40.9
P.T. 338+83.1
P.C. 340+34.5
P.R.C.
342+63.4
P.T. 346+30.5
P.C. 349+60.4
P.T. 351+90.4
P.C. 352+58.9
P.R.C.
355+16.8
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
270
280
290
310
320
330
340
350
ABSAROKA NATIONAL FOREST
T.8 S. R.7 E.
T.7 S. R.7 E.
3
4
34
33

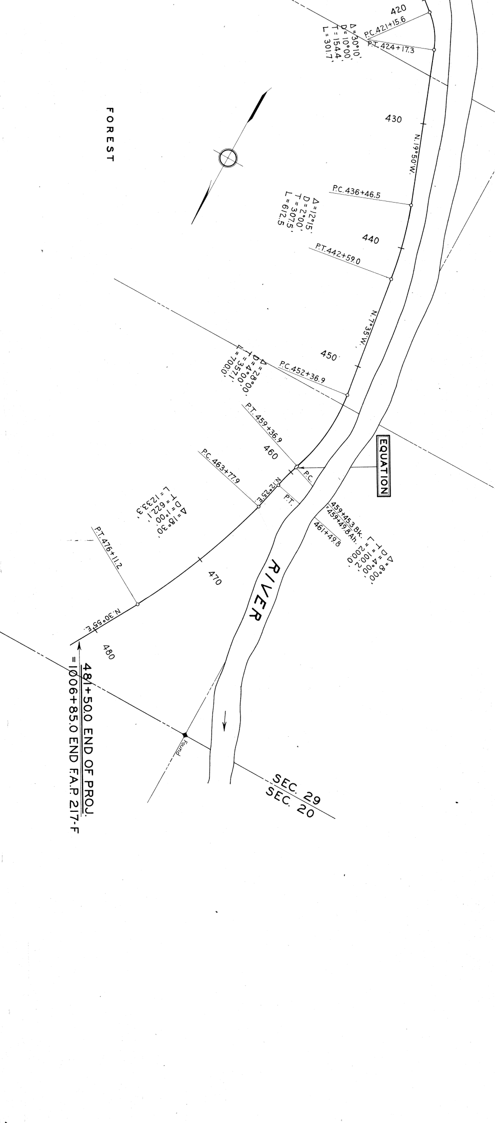
CURVE DATA

| No. | Δ | D | T | L |
|---|---|---|---|---|
| 1 | 20°54' | 11°00' | 96.1 | 190.0 |
| 2 | 19°00' | 6°00' | 159.8 | 316.7 |
| 3 | 38°07' | 10°00' | 198.0 | 381.2 |
| 4 | 38°51' | 13°00' | 155.4 | 298.8 |
| 5 | 18°24' | 9°00' | 103.1 | 204.4 |
| 6 | 17°02' | 6°00' | 143.0 | 283.9 |
| 7 | 44°13' | 10°00' | 232.8 | 442.2 |
| 8 | 18°19' | 8°00' | 115.5 | 228.9 |
| 9 | 14°41' | 4°00' | 184.6 | 367.1 |
| 10 | 6°54' | 3°00' | 115.1 | 230.0 |
| 11 | 20°38' | 8°00' | 130.4 | 257.9 |




CLASSIFICATION
CLEARING
DRAINAGE
STRUCTURES
BENCH MARKS
DATUM: ASSUMED
PROFILE
Hor. 1"=400'
354+95 - 18"×28' C.I.P.
Gravel and boulders
Sagebrush and scattered cottonwood
No classification or clearing data available beyond this station
+0.34%
+2.65%
EQUATION
363+64.8 Back
= 363+69.0 Ahead
365+50
5062.90
300'V.C.
B.M. 5060.74
Top of
rock
60' rt. of sta.
363+00
+0.80%
379+00
5073.70
400'V.C.
+58.0 Bk.
+00.0 Ahd
-0.71%
383+50
5070.30
200'V.C.
-1.30%
+50
-0.45%
394+50
5059.90
200'V.C.
-2.40%
400+00.0 END OF PROJ. 43-A
BEG. OF PROJ. 43-C
-1.05%
B.M. 5043.71
Point on
rock
20' rt. of P.T.
sta. 406+00
410+00 - 18"×30' C.I.P.
+2.50%
TYPICAL SECTION
2'
Var. 8'-11'
7'
7'
Var. 8'-11'
4" Crushed rock top course
4" Crushed rock bottom course
P.C. 349+60.4
350
P.T. 351+90.4
Δ=6°54'
D=3°00'
T=115.1'
L=230.0'
P.C. 352+58.9
P.R.C.
Δ=20°38'
D=8°00'
T=130.4'
L=257.9'
355+16.8
Δ=9°39'
D=1°40'
T=290.2'
L=579.0'
4
5
33
32
360
P.C.C. 360+95.8
P.T. 363+27.5
Δ=23°10'
D=10°00'
T=117.4'
L=231.7'
363+64.8 Bk.
363+69.0 Ahd.
EQUATION
P.C. 366+17.9
Δ=9°30'
D=2°00'
T=238.0'
L=475.0'
370
P.C.C. 370+92.9
Δ=6°15'
D=0°45'
T=417.0'
L=833.3'
P.T. 379+26.2
379+58.0 Bk.
=380+00.0 Ah.
EQUATION
ABSAROKA
390
N. 41°45' W.
400
400+00.0 BEG. PROJ. 43-C (F.A.P. 217A)
400+00.0 END OF PROJ. NO. 43-A
P.C.
404+62.0
Δ=8°15'
D=3°00'
T=138.0'
L=275.0'
P.T.
407+37.0
410
NATIONAL
N. 50°00' W.
YELLOWSTONE
SEC. 32
SEC. 29




420
Δ=30°10'
D=10°00'
T=154.4
L=301.7
P.C. 421+15.6
P.T. 424+17.3
FOREST
430
N.19°50'W.
P.C. 436+46.5
Δ=12°15'
D=2°00'
T=307.5
L=612.5
440
P.T. 442+59.0
N.7°35'W.
450
Δ=28°00'
D=4°00'
T=357.1
L=700.0
P.C. 452+36.9
P.T. 459+36.9
460
P.C.
P.T.
EQUATION
P.C. 463+77.9
N.12°25'E.
Δ=18°30'
D=1°00'
T=622.1
L=1233.3
459+45.3 Bk.
=459+49.8 Ah.
461+49.8
Δ=8°00'
D=4°00'
T=100.2
L=200.0
P.T. 476+11.2
470
RIVER
N.30°55'E.
480
481+50.0 END OF PROJ.
=1006+85.0 END F.A.P. 217-F
Found
SEC. 29
SEC. 20