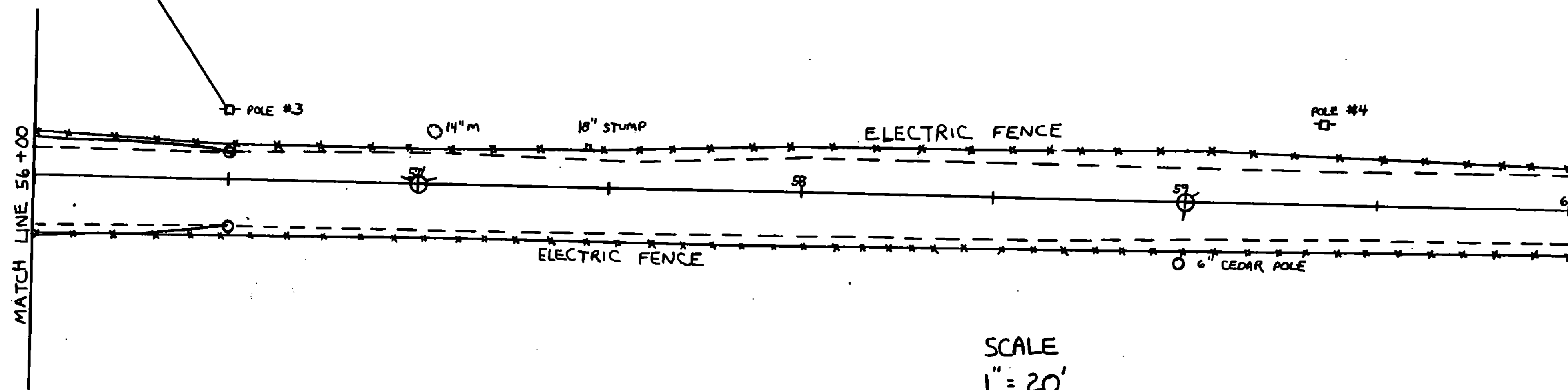


BM #2  
ELEV 1152.24  
SPIKE IN POLE #3

FIELD



SCALE  
1" = 20'

FIELD

### HYDRAULIC DATA

TH 3 B 24

55' Steel Beam Bridge  
Drainage Area = 90.0 Sq. Mi. (233.1 Sq. Km.)

Q 2.33 = 1400 cfs (40 cms)	Headwater Elevation = 1151.8
Q 10 = 2800 " (80 " )	" = 1153.8
Q 25 = 3400 " (100 " )	" = 1154.4
Q 50 = 4050 " (110 " )	" = 1155.0
Q 100 = 4700 " (135 " )	" = 1155.4

Tailwater Elevation @ G25 = 1154.4; depth = 6.4' (2.6 m)  
Outlet Velocity @ G 25 = 8.1 fps (2.8 mps)  
Roadway overflow occurs at approximately G5.  
Use Stone Fill, Type II where deemed necessary.

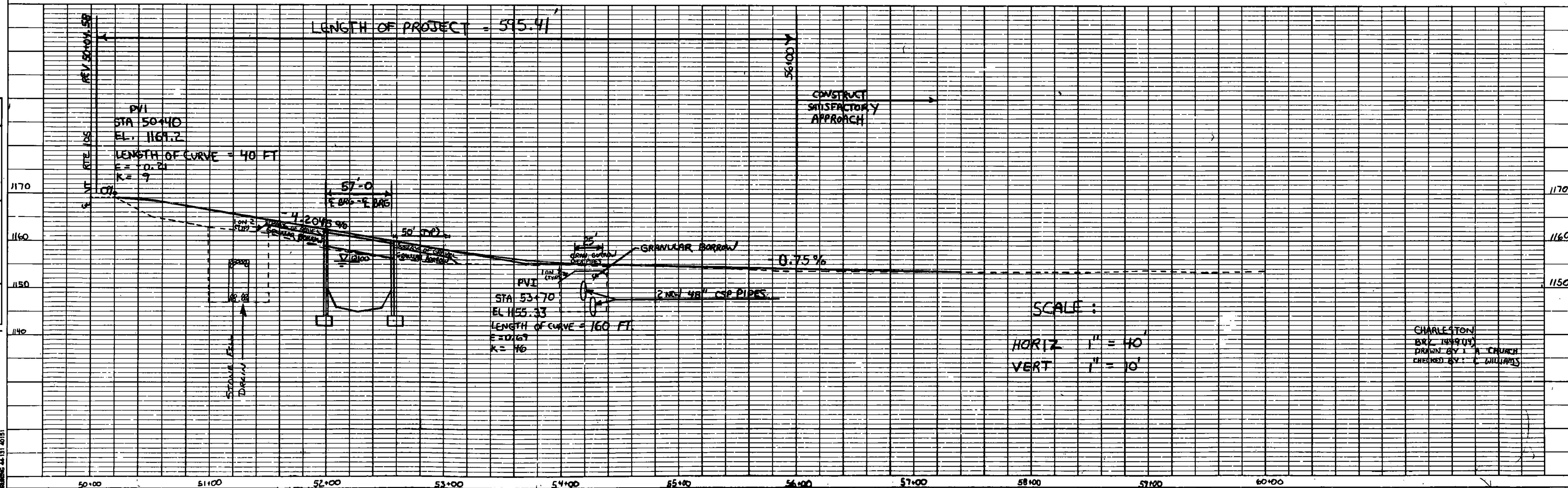
TH 3 B 25

8- 48" pipes  
Drainage Area = 90.0 Sq. Mi. (Overflow to B 24)

Q2.33 = 1400 cfs (40 cms)	Headwater Elevation = 1151.8
Q10 = 2800 " (80 " )	" = 1153.8
Q25 = 3400 " (100 " )	" = 1154.4
Q50 = 4050 " (110 " )	" = 1155.0
Q100 = 4700 " (135 " )	" = 1155.4

Tailwater Elevation @ G25 = 1154.4; depth = 9.4' (2.8 m)  
Outlet Velocity @ G25 = 8.7 fps (2.8 mps)  
Roadway overflow occurs at approximately G5.  
Use Stone Fill, Type II where deemed necessary.

LENGTH OF PROJECT = 595.41'



SCALE:  
HORIZ 1" = 40'  
VERT 1" = 10'

CHARLESTON  
BRIDGE  
DRAWN BY: J. A. CHURCH  
CHECKED BY: C. WILLIAMS