

GUARDRAIL - HEAVY DUTY STEEL BEAM W/ WOOD POSTS  
TYPE II (ITEM 62.1.33)

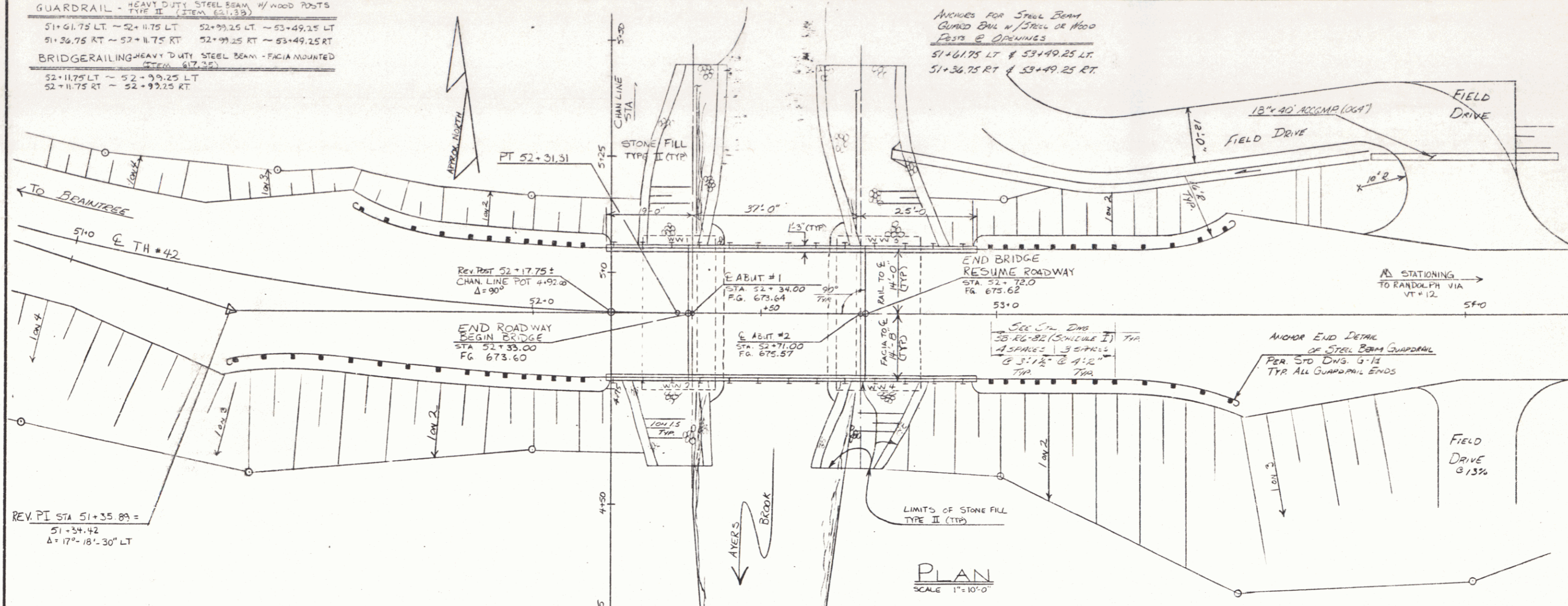
51+61.75 LT ~ 52+11.75 LT    52+99.25 LT ~ 53+49.25 LT  
51+36.75 RT ~ 52+11.75 RT    52+99.25 RT ~ 53+49.25 RT

BRIDGE RAILING - HEAVY DUTY STEEL BEAM - FACIA MOUNTED  
(ITEM 617.35)

52+11.75 LT ~ 52+99.25 LT  
52+11.75 RT ~ 52+99.25 RT

ANCHORS FOR STEEL BEAM  
GUARD RAIL W/ STEEL OR WOOD  
POSTS @ OPENINGS

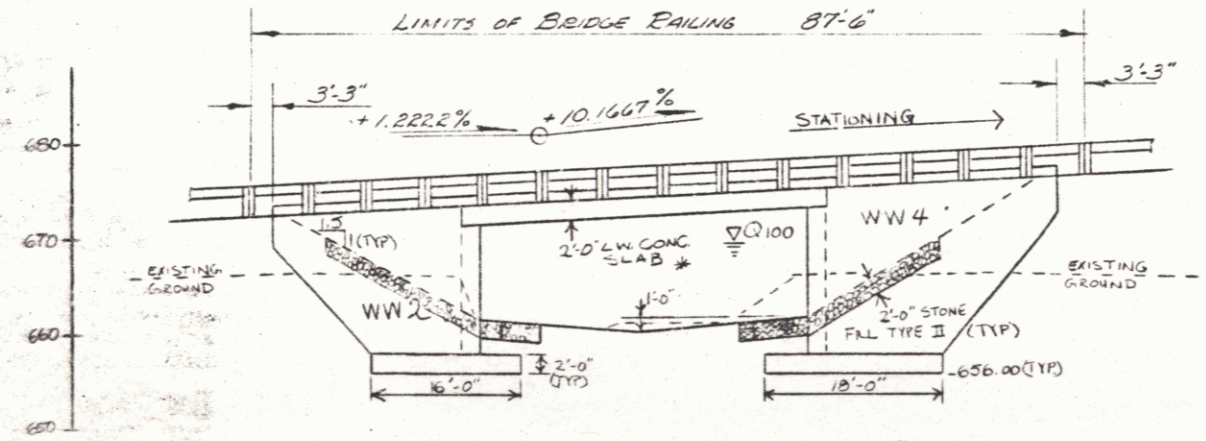
51+61.75 LT & 53+49.25 LT  
51+36.75 RT & 53+49.25 RT



REV. PI STA 51+35.89 =  
51+34.42  
Δ = 17°-18'-30" LT

**HYDRAULIC DATA**

Drainage Area = 23.9 sq. mi. (59.6 sq. km.)  
Q 2.33 = 700 cfs (20 cms.); BM. Elev. = 666.4  
Q 10 = 1700 cfs (50 cms.); BM. Elev. = 666.9  
Q 25 = 2400 cfs (70 cms.); BM. Elev. = 668.3  
Q 50 = 2900 cfs (85 cms.); BM. Elev. = 669.2  
Q 100 = 3400 cfs (100 cms.); BM. Elev. = 669.7  
Tailwater at Q 25 = 7.2' (2.2 m.)  
Outlet velocity @ Q 25 = 10.1 fps (3.1 m/s.)  
Overflow spillway at Q = 2600 cfs. = Q 33+



**ELEVATION**

SCALE 1" = 10'-0"

\* HERE: LINE TO BE CONSTRUCTED  
ON A TANGENT.

<b>STATE OF VERMONT</b>	
<b>AGENCY OF TRANSPORTATION</b>	
TOWN OF <b>RANDOLPH</b>	Bridge No. 37
HIGHWAY NO. TH # 42	Log Sta. 22+50
<b>PLAN AND ELEVATION</b>	
TH # 42 BR 37 OVER AYER'S BROOK	
Designed by R. P. GENDRON	Drawn by E. JUNG
Checked by	Bridge Design Supervisor
date	R. S. HAUPT date
PROJECT <b>RANDOLPH</b>	PROJECT NO. <b>BRZ 1444(8)</b>
Bridge Sheet No. 6	Sheet (2) of 6