

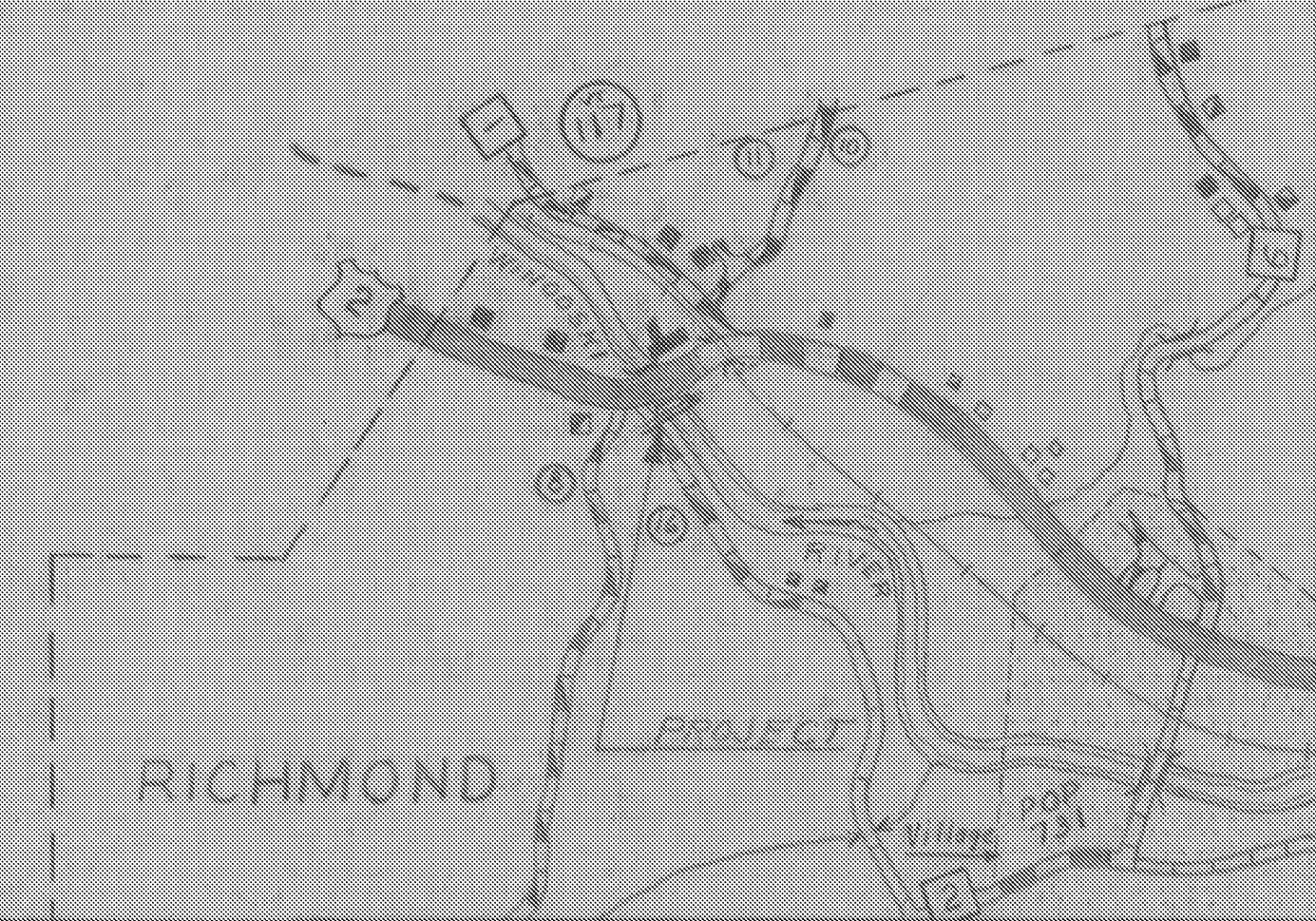
HIGHWAY NO. \_\_\_\_\_ NAME OF HIGHWAY \_\_\_\_\_  
 COUNTY CHITTENDEN TOWN RICHMOND  
 PROJECT NO. I-83-2(1) LOCATION Winooski River, 2 miles downstream from Richmond Village.

**EXISTING STRUCTURE**

- 1 RATED LOADING OF EXISTING STRUCTURE \_\_\_\_\_
- 2 TYPE OF EXISTING STRUCTURE None
- 3 UNDERCLEARANCE ELEVATION OF EXISTING STRUCTURE \_\_\_\_\_
- 4 WHAT DISPOSITION SHOULD BE MADE OF EXISTING STRUCTURE \_\_\_\_\_ COST OF REMOVAL \_\_\_\_\_
- 5 SHOULD EXISTING STRUCTURE BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE \_\_\_\_\_
- 6 SHOULD NEW TEMPORARY STRUCTURE BE BUILT \_\_\_\_\_
- 7 ORDINARY HIGH WATER SURFACE ELEV. AT EXISTING STRUCTURE \_\_\_\_\_ WATERWAY TO ORDINARY H.W. \_\_\_\_\_
- 8 EXTREME HIGH WATER AT EXISTING STRUCTURE \_\_\_\_\_
- 9 SPAN OF EXISTING BRIDGE UPSTREAM 232' (Clear) WATERWAY TO EXTREME H.W. 7,200'  
 SPAN OF EXISTING BRIDGE DOWNSTREAM 345' (Clear) WATERWAY TO EXTREME H.W. 12,500'
- 10 TYPE OF FOUNDATION UNDER EXISTING ABUTMENTS \_\_\_\_\_
- 11 DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE \_\_\_\_\_
- 12 IF NOT AT WHAT ELEVATION IS RELIEF AFFORDED \_\_\_\_\_
- 13 ADDITIONAL WATERWAY AREA PROVIDED \_\_\_\_\_

**NEW STRUCTURE**

- 1 RECOMMENDED TYPE OF STRUCTURE 3 span continuous, Riveted plate girder.
- 2 RECOMMENDED CLEAR SPAN OR SPANS \_\_\_\_\_  
 MEASURED PARALLEL TO NEW HIGHWAY 160'-230'-160'  
 MEASURED AT RIGHT ANGLES TO STREAM \_\_\_\_\_
- 3 ARE THERE OBJECTIONS TO A PIER IN THE STREAM, ANSWER YES OR NO Yes
- 4 ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE 300.0
- 5 EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE 311.4 SOURCE OF INFORMATION 1927 Flood Elev.
- 6 IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE? Yes
- 7 DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? No IS ORDINARY RISE RAPID? No
- 8 LOW WATER ELEVATION AT NEW STRUCTURE 288.0
- 9 DRAINAGE AREA IN ACRES ABOVE STRUCTURE 985 CHARACTER OF TERRAINE Mountainous
- 10 IS STREAM EVER DRY? No
- 11 VELOCITY OF STREAM AT HIGH WATER STAGE 14.6 ft/sec ESTIMATED DISCHARGE 110,000 cfs
- 12 AREA FULL OPENING 20,700' AREA BELOW ORDINARY H.W. 3430'
- 13 CHARACTER OF SCOUR Slight DRIFT Medium ICE Medium
- 14 ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE 215 Sq. Mi.
- 15 VERTICAL CLEARANCE ABOVE FLOOD ELEVATION 29'
- 16 ARE SIDEWALKS REQUIRED, IF SO ON WHAT SIDE No BOTH SIDES \_\_\_\_\_
- 17 RECOMMENDED TYPE OF PAVEMENT Rein. Concrete with 2" Bit. Wearing Surface
- 18 TRAFFIC TO BE MAINTAINED UNDER ITEM NO. \_\_\_\_\_ ONE OR TWO WAYS \_\_\_\_\_ PROBABLE COST \_\_\_\_\_
- 19 PROBABLE COST OF CLEARING AND BRUSHING STREAM CHANNEL AT STRUCTURE SITE 500
- 20 SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES? No
- 21 ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS 10,000 lbs SHOULD PILES BE USED? Yes EST. LETH. 35' x 40' (Abut. only)

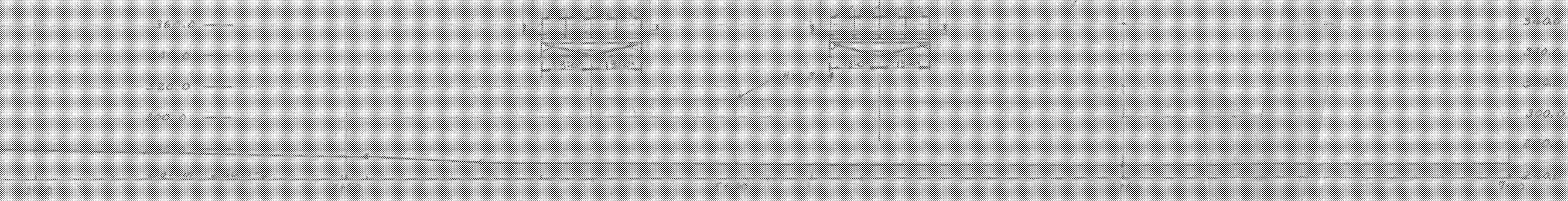
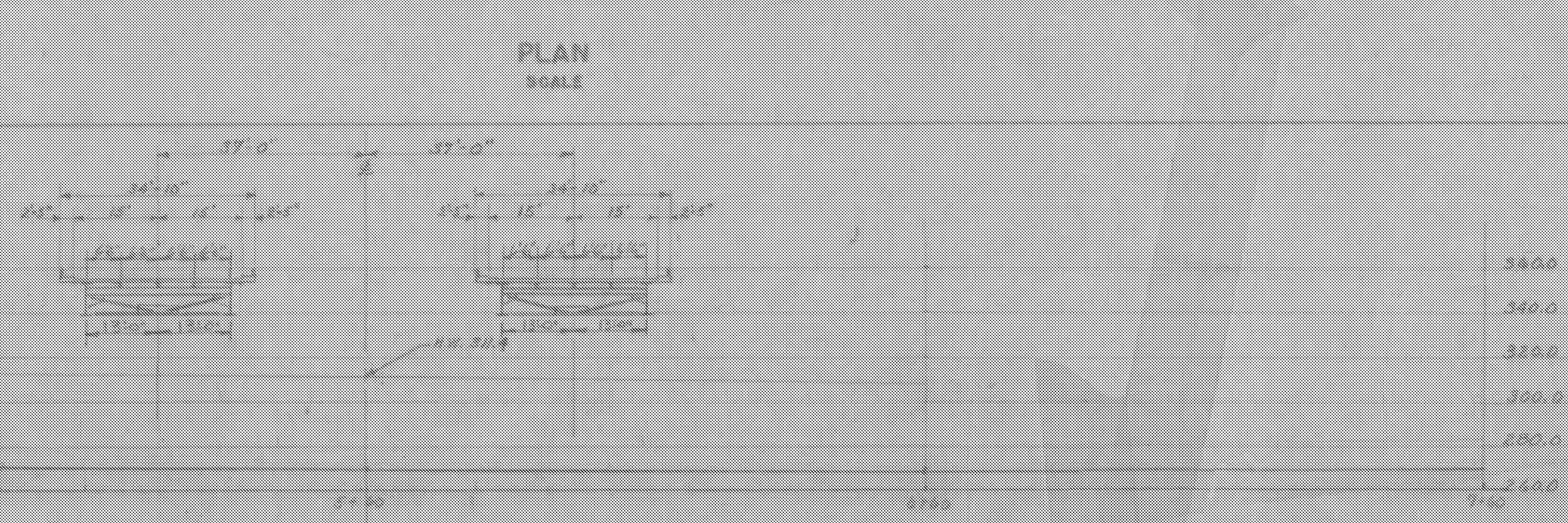


**FOUNDATION INFORMATION**

OBTAINED FOR DESIGN PURPOSES ONLY, AND THE STATE ASSUMES NO RESPONSIBILITY WHATSOEVER FOR THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN. BOULDERS MAY BE ENCOUNTERED AT ANY PIER OR ABUTMENT LOCATION.

SEE SHEETS B-3, B-4, B-5

(See 30-scale layout for bridge plan)



RICHMOND-HIGHGATE  
 IM MEMB(13)

SHEET 9 OF 29  
 BRIDGE 58N  
 FOR REFERENCE ONLY

FR 58 NTS

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS

IN THE TOWNS OF  
RICHMOND

ROUTE NO. \_\_\_\_\_ LOG STA. \_\_\_\_\_

DESIGNED BY EEF/VA CHECKED BY \_\_\_\_\_ SCALE \_\_\_\_\_  
 PROJECT NO. I-83-2(9) SHEET 35 OF 116

APPROVED 1962  
 BRIDGE ENGINEER \_\_\_\_\_ CHIEF ENGINEER \_\_\_\_\_