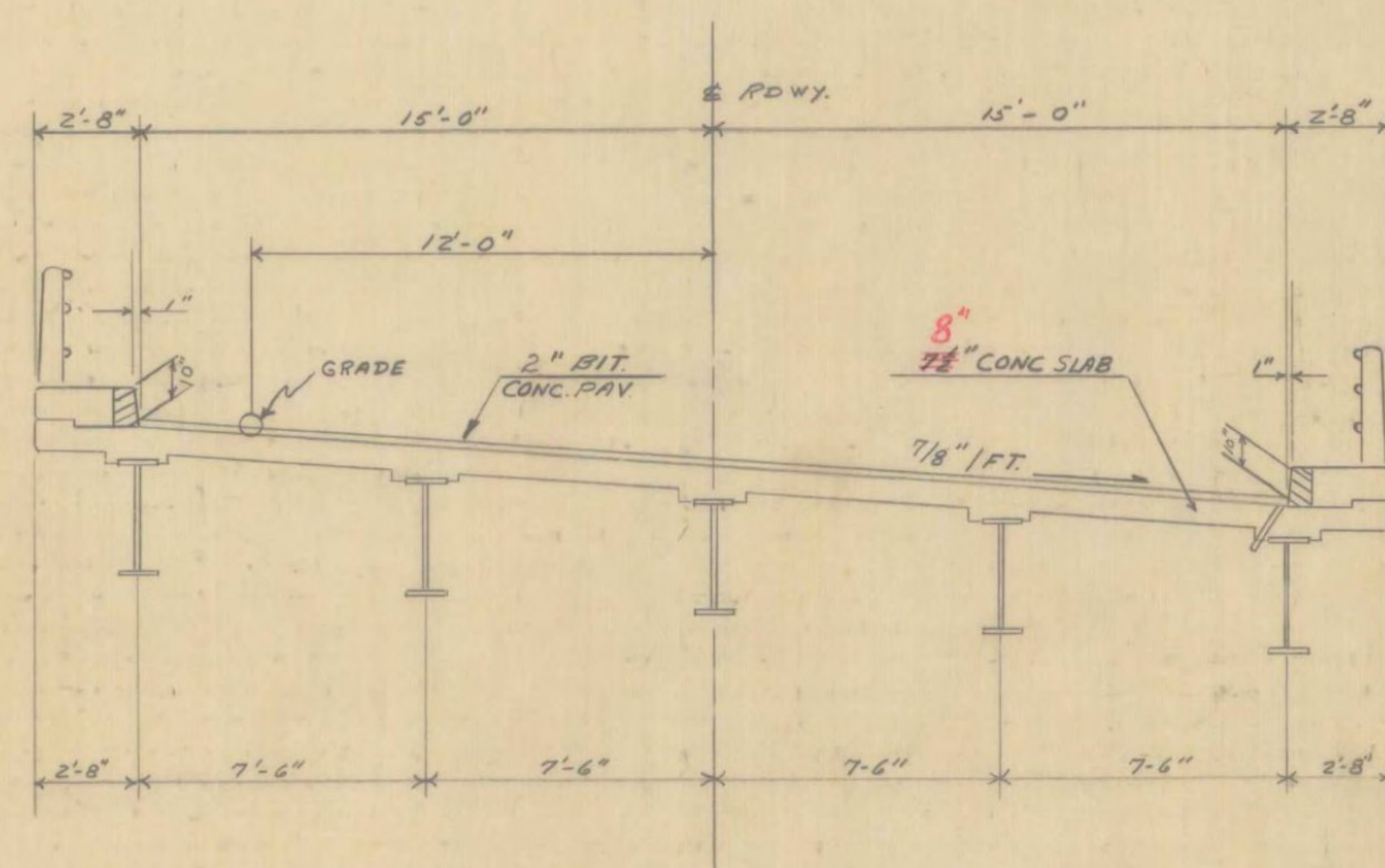
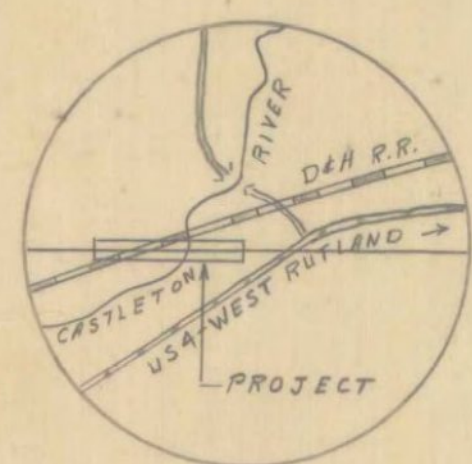


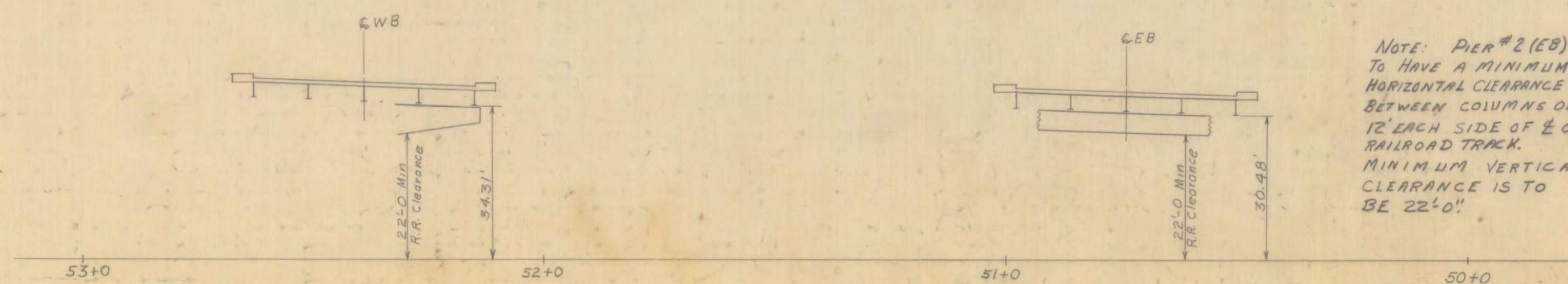
NEW HIGHWAY SECT. STA. 688+00 TO STA. 692+00  
SCALE 1" = 20'

NEW HIGHWAY PROFILE ALONG E  
SCALE



TYPICAL EASTBOUND BRIDGE SECTION  
SCALE 1" = 4'-0"  
WESTBOUND BRIDGE SIMILAR

PLAN  
SCALE



PROFILE OF EXISTING RAILROAD  
SCALE 1" = 20'

NOTE: PIER #2 (EB)  
TO HAVE A MINIMUM  
HORIZONTAL CLEARANCE  
BETWEEN COLUMNS OF  
12' EACH SIDE OF E OF  
RAILROAD TRACK.  
MINIMUM VERTICAL  
CLEARANCE IS TO  
BE 22'-0"

HIGHWAY NO. US 4 NAME OF HIGHWAY RELOCATED US 4  
STRUCTURE NO. S2-B1 COUNTY RUTLAND TOWN WEST RUTLAND  
PROJECT NO. AP020-1(00) LOCATION RELOCATED US 4 OVER DELAWARE & HUDSON RAILROAD & CASTLETON RIVER

EXISTING STRUCTURE

- 1 RATED LOADING OF EXISTING STRUCTURE
- 2 TYPE OF EXISTING STRUCTURE
- 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 WATERWAY TO EXTREME H.W.
- 9 SPAN OF EXISTING BRIDGE UPSTREAM WATERWAY TO EXTREME H.W.
- 10 SPAN OF EXISTING BRIDGE DOWNSTREAM WATERWAY TO EXTREME H.W.
- 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 Simple Spans - W Beam Composite
- 2 RECOMMENDED CLEAR SPAN OR SPANS 79-84-74-89-84 EB & 54-54-99-54-54 WB
- MEASURED PARALLEL TO E NEW HIGHWAY Same
- MEASURED AT RIGHT ANGLES TO E STREAM NA
- 3 ARE THERE OBJECTIONS TO A PIER IN THE STREAM? ANSWER YES OR NO. No
- 4 ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE 480
- 5 EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE 487 SOURCE OF INFORMATION USGS
- 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 479
- 9 DRAINAGE AREA IN ACRES ABOVE STRUCTURE 9656 CHARACTER OF TERRAIN Mountainous
- 10 IS STREAM EVER DRY? No
- 11 VELOCITY OF STREAM AT HIGH WATER STAGE 9 ft/sec ESTIMATED DISCHARGE 2300 cfs
- 12 AREA FULL OPENING 225 ft<sup>2</sup> AREA BELOW ORDINARY H.W. 16 ft<sup>2</sup>
- 13 CHARACTER OF SCOUR slight DRIFT slight ICE slight
- 14 ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE None
- 15 VERTICAL CLEARANCE ABOVE FLOOD ELEVATION 33 ft
- 16 ARE SIDEWALKS REQUIRED? IF SO ON WHAT SIDE? No BOTH SIDES
- 17 RECOMMENDED TYPE OF PAVEMENT 7 1/2" Concrete slab & 2" Bituminous Concrete
- 18 TRAFFIC TO BE MAINTAINED UNDER ITEM NO. NA ONE OR TWO WAYS PROBABLE COST
- 19 PROBABLE COST OF CLEARING AND GRUBBING STREAM CHANNEL AT STRUCTURE SITE None
- 20 SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES? No
- 21 ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS Ledge - Should Piles be used? Yes EST. LOTH Varies  
3 Tons/ft<sup>2</sup>; Earth (walls) 2 Tons/ft<sup>2</sup> 12 BP 53 - 45 Tons

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.

**FAIR HAVEN - WEST RUTLAND  
BF MEMB (35)  
SHEET 29 OF 44  
BRIDGE NO. 13E  
FOR REFERENCE ONLY**

RECOMMENDED FOR APPROVAL E. H. Stickey 11/19/65  
CONSTRUCTION ENG. DATE

RECOMMENDED FOR APPROVAL Bob Brown 11/19/65  
BRIDGE ENGINEER DATE

RECOMMENDED FOR APPROVAL R. H. Arnold 11/19/65  
ASST. CHIEF ENGINEER DATE

APPROVED BY A. S. Smith 11/19/65  
CHIEF ENGINEER DATE

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

RELOCATED US 4 IN THE TOWNS OF  
FAIR HAVEN - WEST RUTLAND

ROUTE NO US 4 STA 687+50  
US 4 OVER D. & H. RAILROAD & CASTLETON R.

SURVEYED BY Bothas CHECKED BY WMS SCALE As Noted  
DRAWN BY AGC IN CHARGE WMS DATE 12 Nov 65

PROJECT NO. AP020-1(00) SHEET 34 OF 357