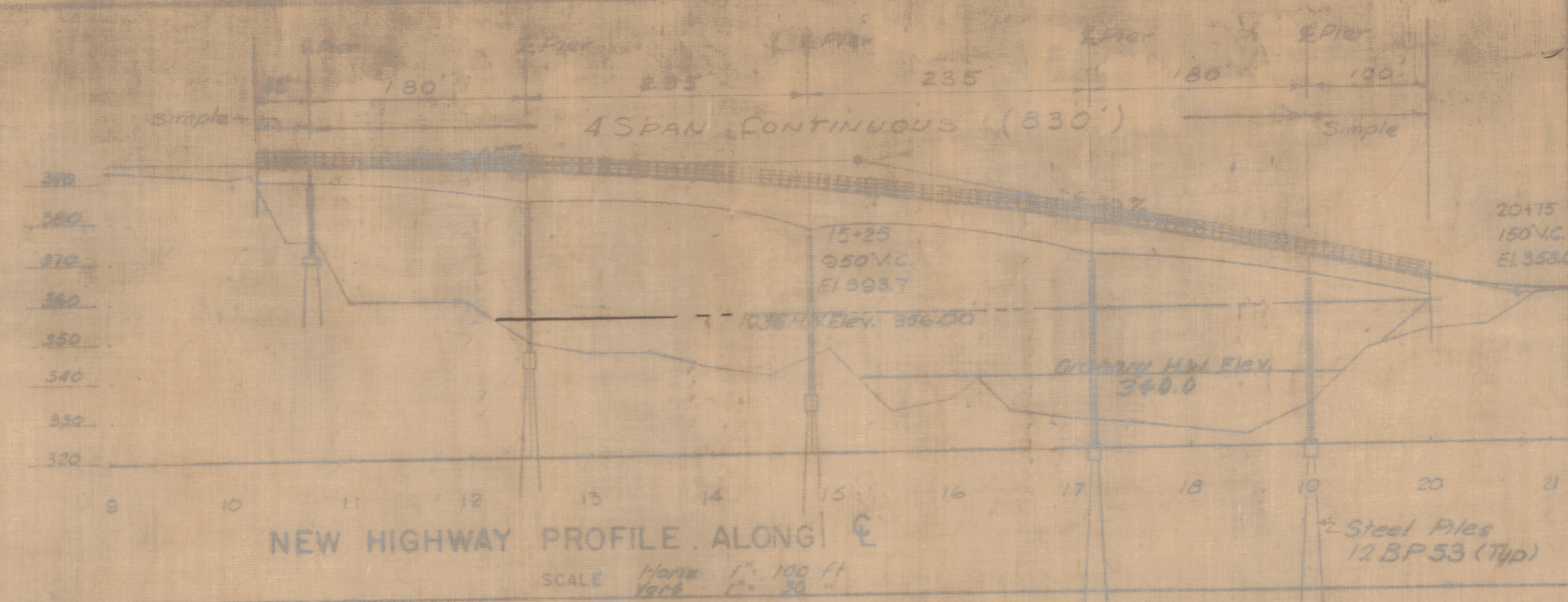
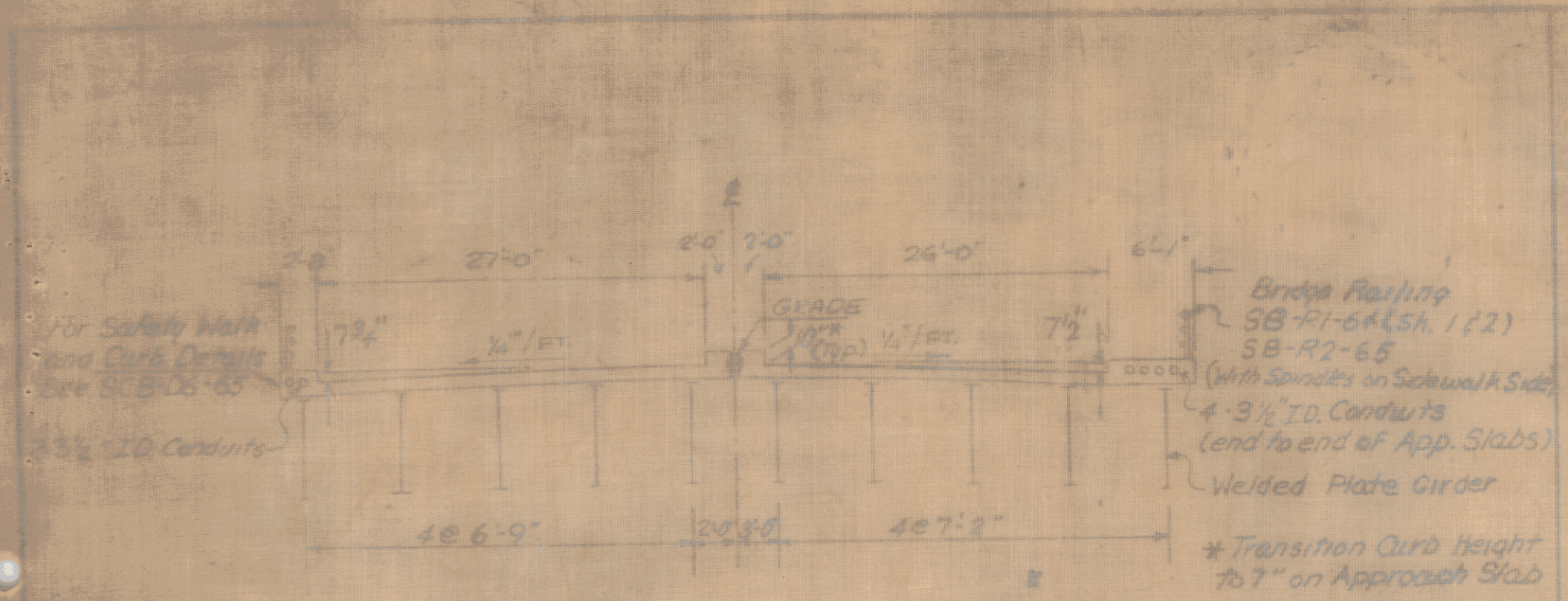


HIGHWAY NO. _____ NAME OF HIGHWAY U.S. 4

STRUCTURE NO. _____ COUNTY Windham TOWN Hartford

PROJECT NO. ER-15 LOCATION Hartford

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 _____ WATERWAY TO EXTREME H.W. _____
10. SPAN OF EXISTING BRIDGE DOWNSTREAM _____ WATERWAY TO EXTREME H.W. _____
11. TYPE OF FOUNDATION UNDER EXISTING ABUTMENTS _____
12. DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE? _____
13. IF NOT AT WHAT ELEVATION IS RELIEF AFFORDED? _____
14. ADDITIONAL WATERWAY AREA PROVIDED _____

NEW STRUCTURE

1. RECOMMENDED TYPE OF STRUCTURE 4 SPAN CONTINUOUS WITH APPROACH SPANS
2. RECOMMENDED CLEAR SPAN OR SPANS 45' (SIMPLE) - 180' - 235' - 235' - 180' (CONTINUOUS) - 100' (SIMPLE)
3. MEASURED PARALLEL TO C NEW HIGHWAY _____
4. MEASURED AT RIGHT ANGLES TO C, STREAM _____
5. ARE THERE OBSTRUCTIONS TO A PIER IN THE STREAM? ANSWER YES OR NO YES
6. ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE 340
7. EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE 350.0 SOURCE OF INFORMATION 1936 Flood Record
8. IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE? Yes
9. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? No IS ORDINARY RISE RAPID? Yes
10. LOW WATER ELEVATION AT NEW STRUCTURE 330
11. DRAINAGE AREA IN ACRES ABOVE STRUCTURE 475,800 CHARACTER OF TERRAIN Hilly
12. IS STREAM EVER DRY? No
13. VELOCITY OF STREAM AT HIGH WATER STAGE 12.6 f/sec. ESTIMATED DISCHARGE 124,000 CFS/sec.
14. AREA FULL OPENING _____ AREA BELOW ORDINARY H.W. _____
15. CHARACTER OF SCOUR Medium DRIFT Light ICE Medium to heavy
16. ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE _____
17. VERTICAL CLEARANCE ABOVE F.O.D. ELEVATION _____
18. ARE SIDEWALKS REQUIRED? IF SO ON WHAT SIDE? Yes - Downstream BOTH SIDES
19. RECOMMENDED TYPE OF PAVEMENT 72 Conc. Slab, 2 bituminous wearing surface
20. PROBABLE COST OF CLEARING AND GRUBBING STREAM CHANNEL AT STRUCTURE SITE \$2500
21. SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES? Yes - Conduits in sidewalk
22. ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS 40 Tons SHOULD PILES BE USED? Yes EST. LOTH FOR PILES _____

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.

ALLOWABLE DESIGN STRESSES:
Concrete f_c = 3000 P.S.I.
Structural Steel f_s = 20,000 P.S.I. (A36)
Reinforcing Steel f_r = 20,000 P.S.I. (Tension)

DESIGN LOADING - HS 20-44

VERMONT DEPARTMENT OF HIGHWAYS

RIGHT-OF-WAY PLANS

PROJECT HARTFORD

NO F 041-2(3)

SHEET _____ OF _____

RECOMMENDED FOR APPROVAL C. H. Stebbins 9/13/65
CONSTRUCTION ENGINEER DATE

RECOMMENDED FOR APPROVAL Am. Lyons 9/10/65
BRIDGE ENGINEER DATE

RECOMMENDED FOR APPROVAL R. H. Lewis 9/3/65
ASST. CHIEF ENGINEER DATE

APPROVED BY: O. D. Kelly 9/13/65
CHIEF ENGINEER DATE

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

IN THE TOWNS OF
Hartford

ROUTE NO. U.S. 4 STA. 1

White River Bridge

Preliminary Information

PROJECT NO. ER-15 SHEET 5 OF 70

Typical Elev. of Pier
Rev. 12/29/65 RLO