

WORRALL COVERED BRIDGE

ROCKINGHAM, VT

SHORING, STAGING, AND REHABILITATION PLAN

SEQUENCE OF OPERATIONS

- REMOVAL OF SIDING
- INSTALLATION OF SHORING GIRDERS AND BRIDGE SUPPORT JOISTS
- REMOVAL OF THE NAIL-LAMINATED BRIDGE DECK, FLOOR BEAMS & DISTRIBUTION BEAMS
- INSTALLATION OF THE UNDER-BRIDGE WORK PLATFORM
- INSTALLATION OF THE SHORING COLUMNS AND CAMBERING SHIMS
- INSTALLATION OF THE WIND BLOCKS AND WIND RESTRAINT LINES
- JACK THE BRIDGE APPROXIMATELY 2" OFF PIER AND ABUTMENT. LIMIT END TO END DIFFERENTIAL TO 2" MAX. AND TRANSVERSE DIFFERENTIAL TO 1/2" MAX.
- REMOVAL OF THE DISTRIBUTION BEAMS
- REMOVAL OF THE ENTIRE LOWER CHORD

NOTE: RETAIN A MINIMUM OF 1 TRUNNEL AT EACH LATTICE INTERSECTION TO MAINTAIN THE ALIGNMENT OF THE LATTICE MEMBERS.

NOTE: THE REMOVAL OF THE LOWER CHORD MAY CAUSE LATERAL SWEEP OF THE TRUSS - IF THIS CONDITION OCCURS IT WILL BE REMEDIED BY REALIGNING THE BOTTOM CHORD (SEE BELOW)

- REMOVAL OF ALL INTERMEDIATE LOWER CHORD MEMBERS DESIGNATED FOR REPLACEMENT, ANY INTERMEDIATE LOWER CHORD MEMBERS REQUIRING REMOVAL TO GAIN ACCESS TO THOSE DESIGNATED FOR REPLACEMENT, AND INTERMEDIATE LOWER CHORD MEMBERS AT THE ENDS OF THE BRIDGE TO GAIN ACCESS FOR THE DRILLING OF ANCHORAGES FOR THE SPECIFIED BEARING DEVICES
- NOTE:** RETAIN A MINIMUM OF 1 TRUNNEL AT EACH CONNECTION TO MAINTAIN THE ALIGNMENT OF THE MEMBERS.

- JACK THE ENTIRE ROOF OF THE BRIDGE TO GAIN ACCESS TO THE TOP CHORD AND LATTICE MEMBERS. (SEE SHEET 7)
- REMOVAL OF ALL LATTICE MEMBERS DESIGNATED FOR REPLACEMENT.

NOTE: THE REMOVAL OF LATTICE MEMBERS MAY CAUSE INTERMEDIATE LOWER CHORD MEMBERS OR OTHER LATTICE MEMBERS THAT ARE TO BE RETAINED TO NEED TO BE SUPPORTED BY OTHER MEASURES. IF THIS CONDITION ARISES, TEMPORARILY SUPPORT THE MEMBER BY HANGING IT FROM ABOVE (LATTICE, TOP CHORDS OR BRIDGE SUPPORT JOISTS) UTILIZING RIGGING EQUIPMENT (ROPE/CABLE/CHAIN) RATED FOR 500 POUNDS WITHOUT STRETCHING.

- REMOVAL OF ALL TOP CHORD MEMBERS DESIGNATED FOR REPLACEMENT AND ANY TOP CHORD MEMBERS REQUIRING REMOVAL TO GAIN ACCESS TO THOSE DESIGNATED FOR REPLACEMENT.

EXCEPTION: A MINIMUM OF ONE PLY (ONE EACH 3" X 11" MEMBER) OF THE TOP CHORD MUST REMAIN IN PLACE AT ALL TIMES AND AT ALL LOCATIONS WITH A MINIMUM OF ONE TRUNNEL AT EACH CONNECTION. THIS MAY REQUIRE THE TOP CHORD TO HAVE TO BE REHABILITATED IN TWO PHASES (EXTERIOR AND INTERIOR).

- INSTALLATION OF NEW TRUSS MEMBERS AS SPECIFIED. TOP CHORD AND LATTICE MEMBERS WILL BE REPLACED PRIOR TO BOTTOM CHORD MEMBERS.
- REALIGNMENT OF THE TOP CHORD. UTILIZE THE SHORING GIRDERS TO PUSH/PULL THE TOP CHORD AS NECESSARY TO STRAIGHTEN.
- LOWER THE ROOF ONTO THE REHABILITATED TRUSSES AND RECONNECT. (SEE SHEET 7))

- REALIGNMENT OF THE BOTTOM CHORD (SEE SHEET 8) AND INSTALLATION OF THE BOTTOM LATERAL BRACING AND FIVE (5) ASSOCIATED FLOOR BEAMS.
- INSTALLATION OF THE NEW DISTRIBUTION BEAMS, LOWER THE BRIDGE AND FASTEN TO BEARING DEVICES. WHILE JACKING DOWN THE BRIDGE, LIMIT END TO END DIFFERENTIAL TO 2" MAX. AND TRANSVERSE DIFFERENTIAL TO 1/2" MAX
- INSTALLATION OF THE REMAINING FLOOR BEAMS, NAIL-LAMINATED BRIDGE DECK, AND SIDING.
- APPLICATION OF FIRE RETARDANT AND INSECTICIDE/FUNGICIDE
- INSTALLATION OF FIRE DETECTION SYSTEM
- REMOVE THE UNDER-BRIDGE WORK PLATFORM AND ALL SHORING MATERIALS.

WORRALL COVERED BRIDGE (BRIDGE #40) WILLIAMS ROAD	
SHORING, STAGING & REHABILITATION PLAN	
TITLE SHEET	
SCALE	AS NOTED
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