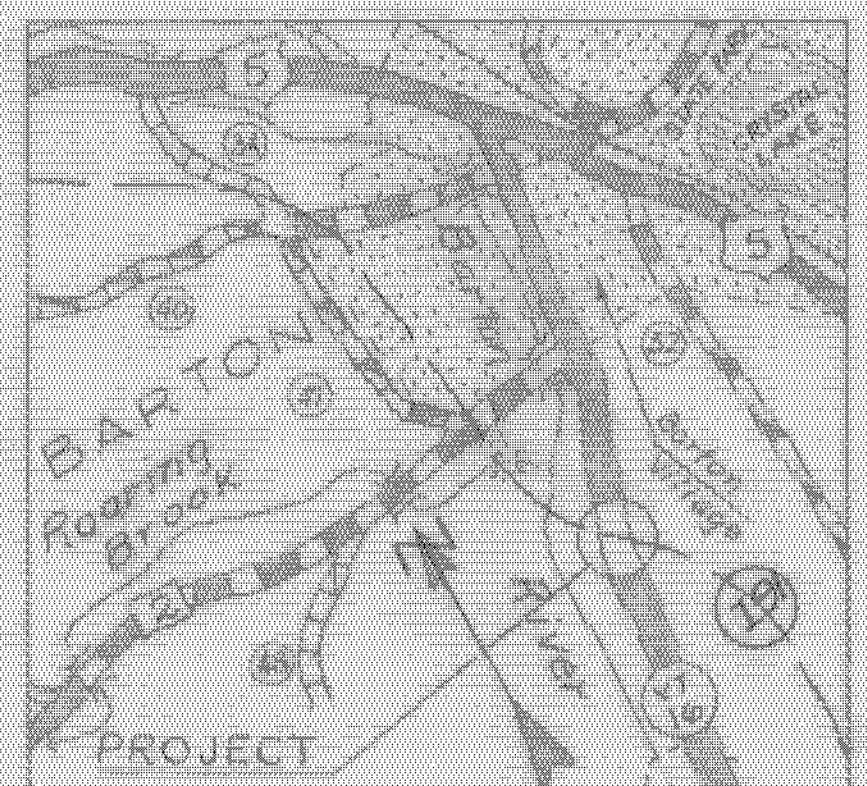


HIGHWAY NO. **191** NAME OF HIGHWAY **INTERSTATE**
 STRUCTURE NO. **S4-81** COUNTY **ORLEANS** TOWN **BARTON**
 PROJECT NO. **191-370** LOCATION **BARTON**
 (10) **I 91 OVER VT. ROUTE 16**
EXISTING STRUCTURE

1. HAZARD LOADINGS OF EXISTING STRUCTURE
 2. TYPE OF EXISTING STRUCTURE **NONE**
 3. UNDERSTANDING OF ELEVATION OF EXISTING STRUCTURE
 4. WIND DEPOSITION UNLID BY WINDS OF EXISTING STRUCTURE? COST OF WINDLIFT
 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 EXISTING H.W.
 10. SPAN OF EXISTING BRIDGE DOWNSTREAM WATERWAY TO EXISTING H.W.
 11. TYPE OF FOUNDATION UNDER EXISTING STRUCTURE
 12. DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE?
 13. IF NOT, WHAT ELEVATION IS RELIEF PROVIDED?
 14. ADDITIONAL WATERWAY AREA PROVIDED

NEW STRUCTURE
 1. RECOMMENDED TYPE OF STRUCTURE **Three Span Continuous Concrete w/ Beam**
 2. RECOMMENDED Overall Bridge Lengths Southbound **130.20'** Northbound **130.20'**
 Span Lengths center to center of Brgs. Southbound **51'-77'-48"** Northbound **51'-77'-48"**
 Clear Span Lengths normal to Roadway **N/A**
 3. ARE THERE OBJECTIONS TO A DAM IN THE STREAM? ANSWER YES OR NO
 4. ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE
 5. EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE SOURCE OF INFORMATION
 6. IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE?
 7. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION FREQUENTLY? IS ORDINARY H.W. RAPID?
 8. LOW WATER ELEVATION AT NEW STRUCTURE
 9. DRAINAGE AREA IN ACRES ABOVE STRUCTURE CHARACTER OF TERRAIN
 10. IS STREAM EVER DRY?
 11. VELOCITY OF STREAM AT HIGH WATER STAGE ESTIMATED DISCHARGE
 12. AREA FULL OPENING AREA BELOW ORDINARY H.W.
 13. CHARACTER OF SOIL DRIFT ICE
 14. ESTIMATED DRAINAGE AREA ABOVE STRUCTURE IN ACRES
 15. HISTORICAL CLEARANCE ABOVE STREAM ELEVATION **NONE** BOTH SIDES
 16. ARE STREAMS CHANNELS? IF SO, ON WHAT SIDE? **2' Bituminous Concrete Pavement**
 17. RECOMMENDED TYPE OF PAVEMENT **ONE OF TWO WAYS** PROBABLE COST
 18. TRAFFIC TO BE MAINTAINED UNDER STRUCTURE NO. PROBABLE COST
 19. PROBABLE COST OF DEEPENING AND BRUSHING STREAM CHANNEL AT STRUCTURE LOC.
 20. SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES? **NO**
 21. ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS **50 Tons** SHOULD PILES BE USED? **YES** SEE LETTER **See letter per Pile (Steel Piles 120 Pcs)**

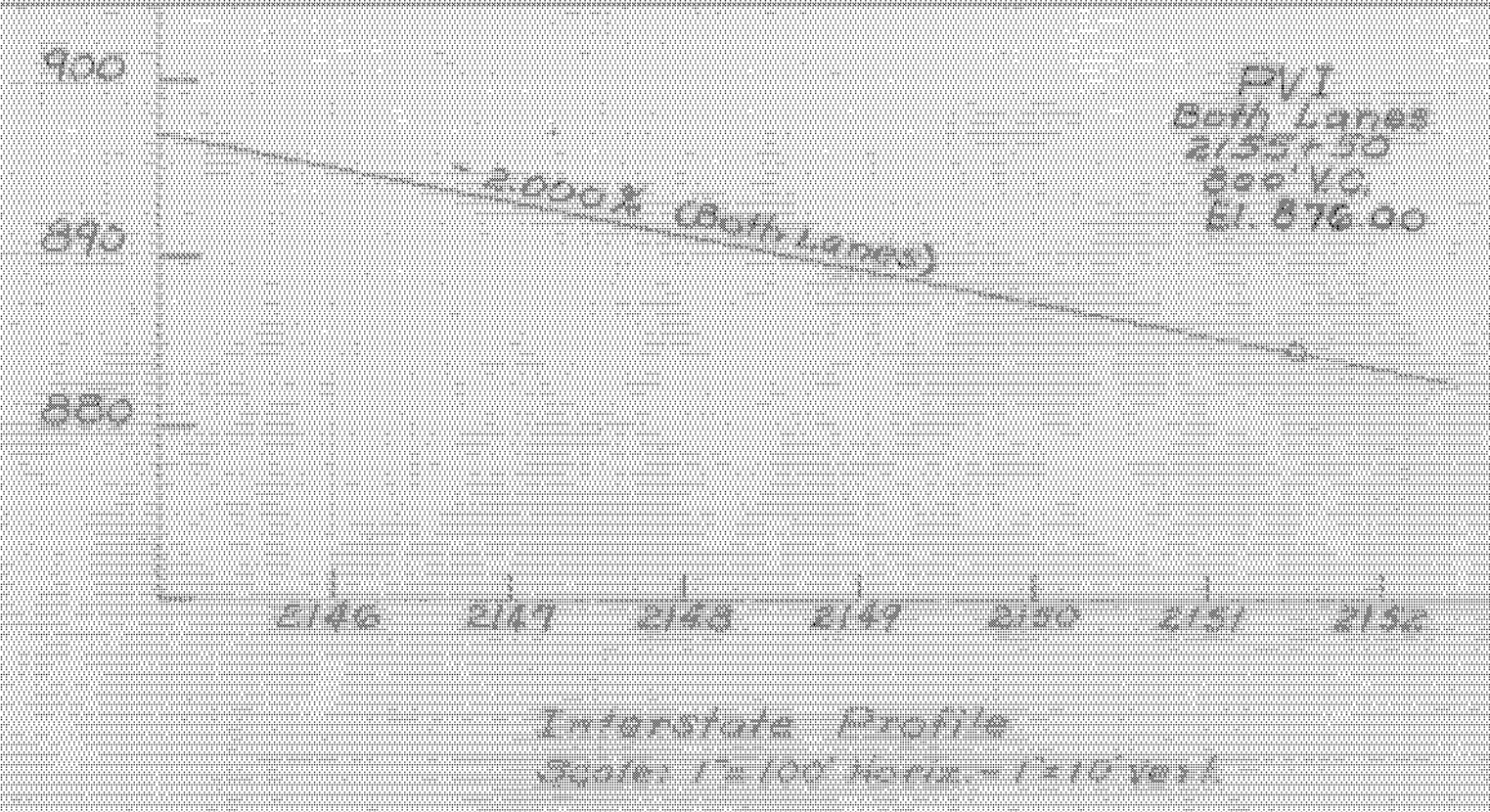
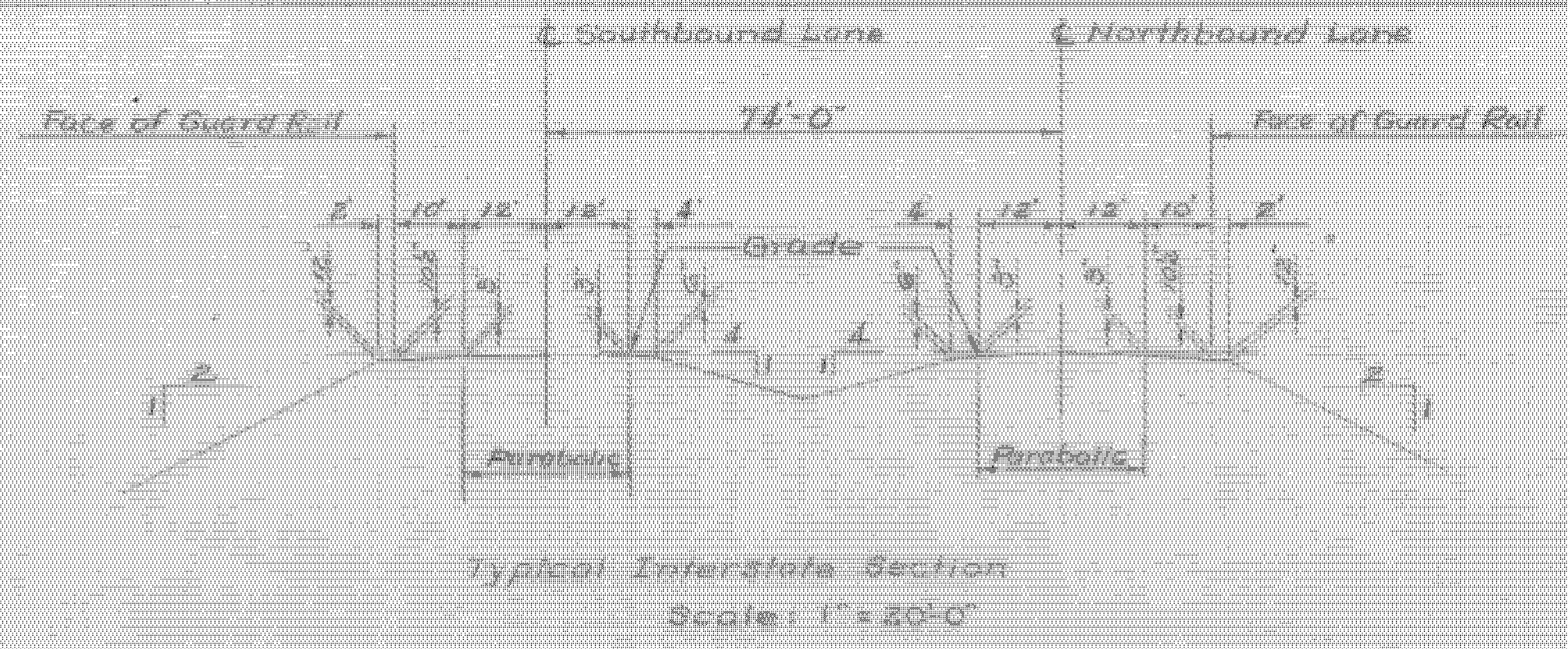


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 OBTAINED FOR DESIGN PURPOSES ONLY, AND THE STATE ASSUMES NO RESPONSIBILITY WHATSOEVER FOR THE MISFEASANCE OR ACCURACY OF THE INFORMATION SHOWN. ENGINEERS MAY BE ENCOUNTERED AT ANY DEPTH OR ADJACENT LOCATION.
FOR BORING LOGS SEE SHEET BR-103 of 104

TABLE OF ESTIMATED PILE LENGTHS

LOCATION	FOOTING ELEV.	PILE LENGTH
Abutment No. 1	873.00	45'
Abutment No. 2	871.00	50'
Abutment No. 3	874.00	60'
Abutment No. 4	876.00	60'
Pier No. 1	858.50	30'
Pier No. 2	867.00	35'
Pier No. 3	859.00	35'
Pier No. 4	858.00	35'

BARTON-COVENTRY
 IM BPNT (11)
 SHEET 12 OF 84
 BRIDGES 102N&S
 FOR REFERENCE ONLY



RECOMMENDED FOR APPROVAL **[Signature]** DATE **11/16/66**
 CONSTRUCTION ENGINEER
 RECOMMENDED FOR APPROVAL **[Signature]** DATE **11/16/66**
 BRIDGE ENGINEER
 RECOMMENDED FOR APPROVAL **[Signature]** DATE **11/16/66**
 ASST. CHIEF ENGINEER
 APPROVED BY **[Signature]** DATE **11/16/66**
 CHIEF ENGINEER

PROJECT: BARTON **Stage 7 Construction**
 STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS
 INTERSTATE IN THE TOWN OF
 BARTON **BR 102**
 ROUTE NO. 191 STA. 2148+27
I 91 OVER VT. ROUTE 16
PRELIMINARY INFORMATION
 SHEET NO. 12 OF 84
 PROJECT NO. 191-370
 SHEET 12 OF 84
 (10) 585 389
BR-100