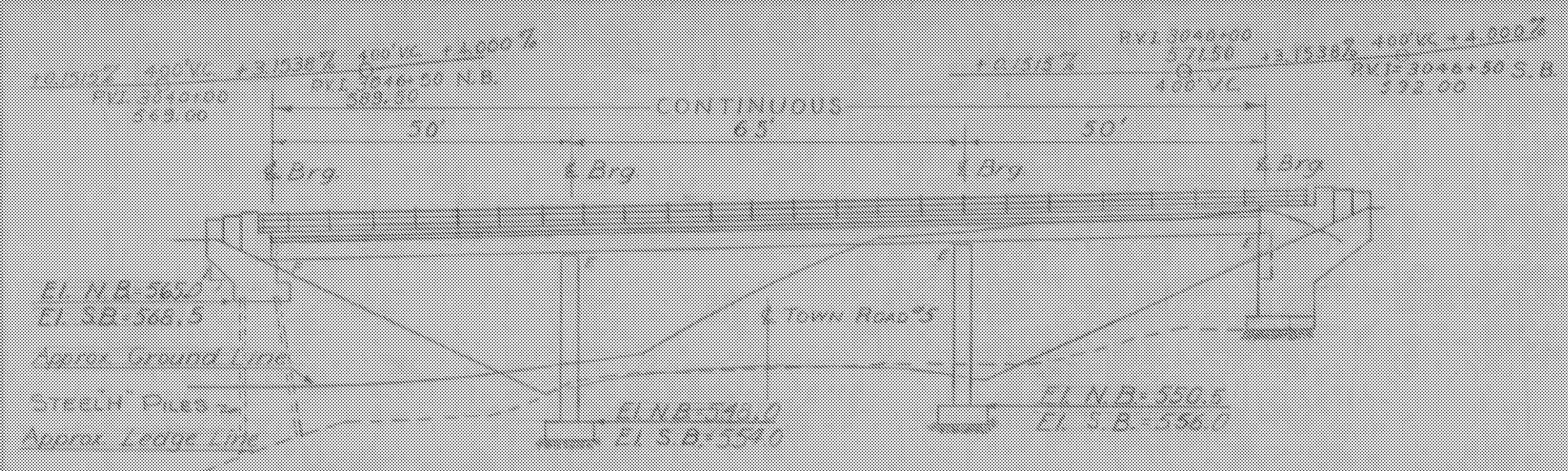
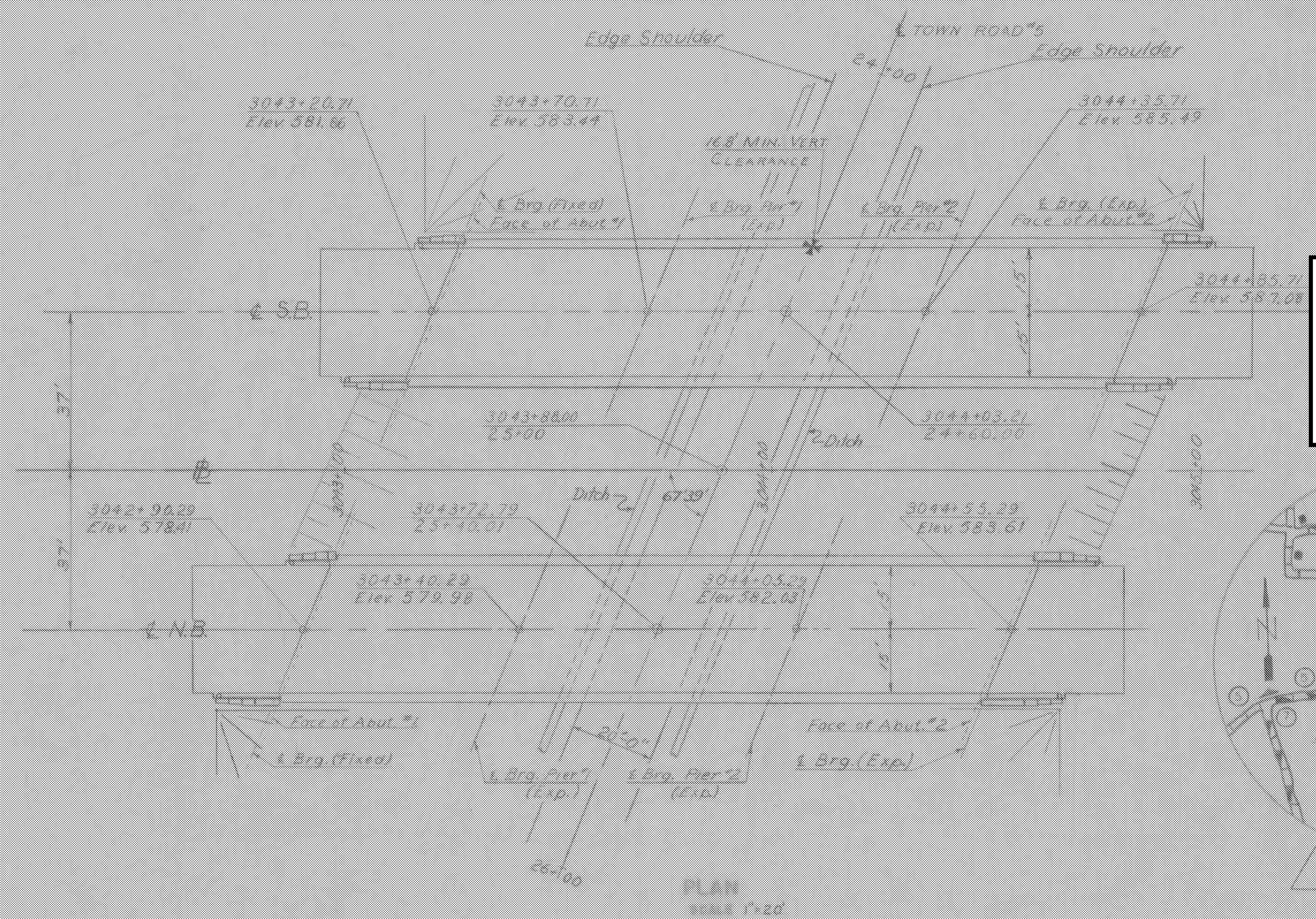


NEW HIGHWAY SECT. STA. 3042 TO STA. 3046  
SCALE 1"=20'

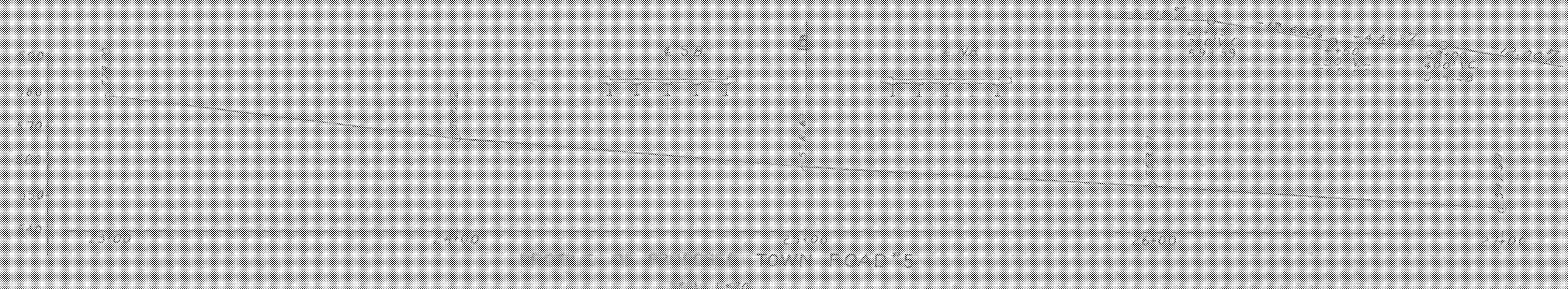
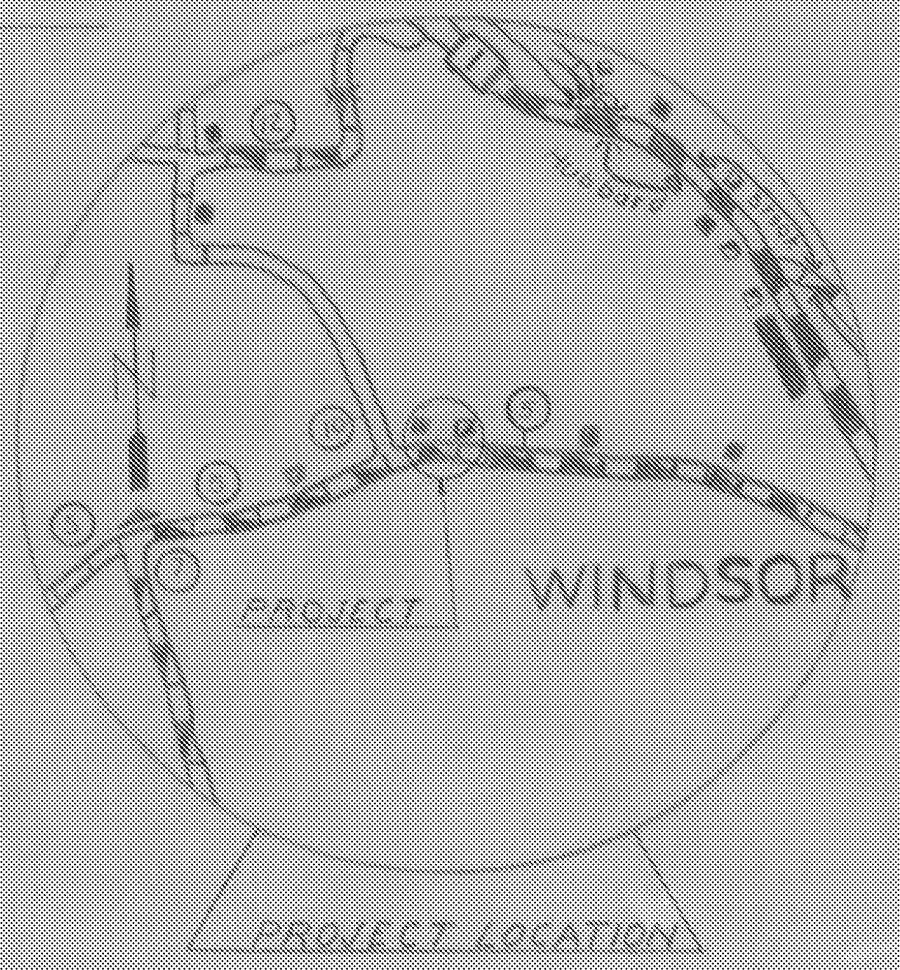


NEW HIGHWAY PROFILE ALONG INTERSTATE S.B.  
SCALE 1"=20'



PLAN  
SCALE 1"=20'

WINDSOR-HARTLAND  
IM MEMB(14)  
  
SHEET 21 OF 39  
BRIDGE 34S  
FOR REFERENCE ONLY

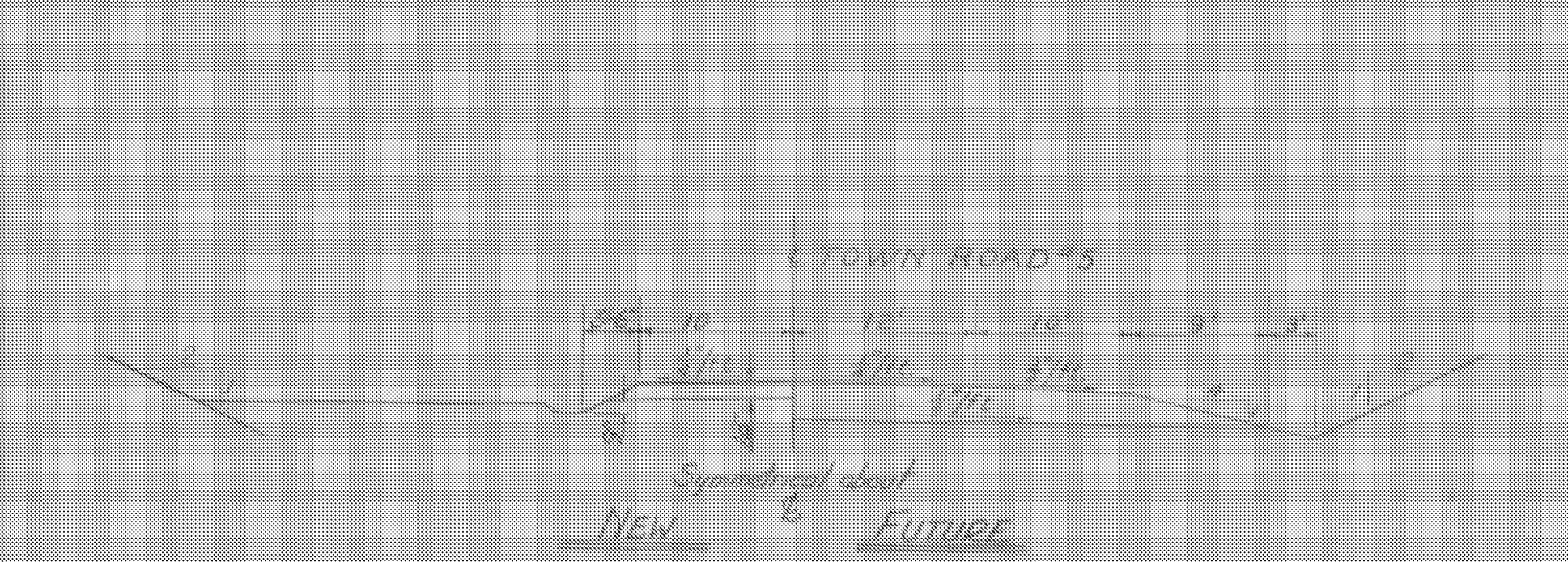


PROFILE OF PROPOSED TOWN ROAD #5  
SCALE 1"=20'

HIGHWAY NO. I-91 NAME OF HIGHWAY INTERSTATE  
STRUCTURE NO. COUNTY WINDSOR TOWN WINDSOR  
PROJECT NO. I-91(121) LOCATION WINDSOR - I-91 OVER TOWN ROAD #5

EXISTING STRUCTURE	
1	EXISTING LOADING OF EXISTING STRUCTURE
2	TYPE OF EXISTING STRUCTURE
3	UNDERCLEARANCE ELEVATION OF EXISTING STRUCTURE
4	WAY DIRECTION BRIDGE MAKE OF EXISTING STRUCTURE COST OF BRIDGE
5	SHOULD EXISTING BRIDGE BE USED THROUGH TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE
6	SHOULD NEW TEMPORARY STRUCTURE BE USED
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 ORDINARY H.W.
10	SPAN OF EXISTING BRIDGE DOWNSTREAM WATERWAY TO EXTREME H.W.
11	TYPE OF FOUNDATION OF EXISTING ABUTMENTS
12	DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE
13	IF NOT WHAT ELEVATION IS RELIEF AFFORDED
14	ADDITIONAL WATERWAY AREA PROVIDED
NEW STRUCTURE	
1	RECOMMENDED TYPE OF STRUCTURE CONTINUOUS W.F.B.M. NON COMPOSITE (S.C.B. 30-62-MOD.)
2	RECOMMENDED CLEAR SPAN OR SPANS 50'-65'-50'
3	MEASURED PARALLEL TO NEW HIGHWAY
4	MEASURED AT RIGHT ANGLES TO T.R.#5 153'
5	ARE THERE OBSTRUCTIONS TO A RIVER IN THE STREAM, WHETHER YES OR NO
6	ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE
7	EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE SOURCE OF INFORMATION
8	DOES ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE
9	DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY IS ORDINARY RISE RAPID
10	LOW WATER ELEVATION AT NEW STRUCTURE
11	DRAINAGE AREA IN ACRES ABOVE STRUCTURE CHARACTER OF TERRAINE
12	IS STREAM EYED ON?
13	VELOCITY OF STREAM AT HIGH WATER STAGE ESTIMATED APPROXIMATE
14	AREA FULL OF DEBRIS AREA BELOW ORDINARY H.W.
15	CHARACTER OF SOILS DRIFT
16	ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE
17	VERTICAL CLEARANCE 16.8'
18	ARE SIDEWALKS REQUIRED, IF SO ON WHAT SIDE N.O. BOTH SIDES
19	RECOMMENDED TYPE OF PAVEMENT 12" BITUMINIOUS CONCRETE
20	TRAFFIC TO BE MAINTAINED UNDER ITEM NO. USE OF TWO WAYS PROBABLE COST
21	PROBABLE COST OF MAINTENANCE AND DRAINING STREAM CHANNEL AT STRUCTURE SITE
22	SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES N.O.
23	ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS 30 TONS SHOULD PILES BE USED YES COST

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.  
FOR TYPICAL BRIDGE SECTION SEE SHEET BR100



ALLOWABLE DESIGN WORKING STRESSES  
CONCRETE - ULTIMATE COMP. STRESS,  $f'_c = 3000 \text{ psi}$   
COMP. STRESS IN EXT. FIBER,  $f_c = 1200 \text{ psi}$   
EARTH - MAX. BEARING - 2 TONS/10'  
ROCK - MAX. BEARING - 5 TONS/10'  
REINFORCING STEEL - INTERMEDIATE GRADE  
 $f_s = 20,000 \text{ psi}$   
STRUCTURAL STEEL - 18,000 psi (A1 & A373)  
20,000 psi (A36)  
SHEAR IN FOOTING - 90 psi  
FACTOR OF SAFETY AGAINST OVERTURNING, 1.5 TO 2.0

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS  
INTERSTATE IN THE TOWNS OF  
WEATHERSFIELD - WINDSOR - HARTLAND  
ROUTE NO. I-91 100 31A  
INT. OVER WINDSOR TOWN ROAD NO. 5  
PRELIMINARY INFORMATION  
REV. 6-17-63 RND:am CHD 6-19-63 ALM  
APPROVED 7/11/62  
7/11/62  
1-91(121) Cont. 43 of 166