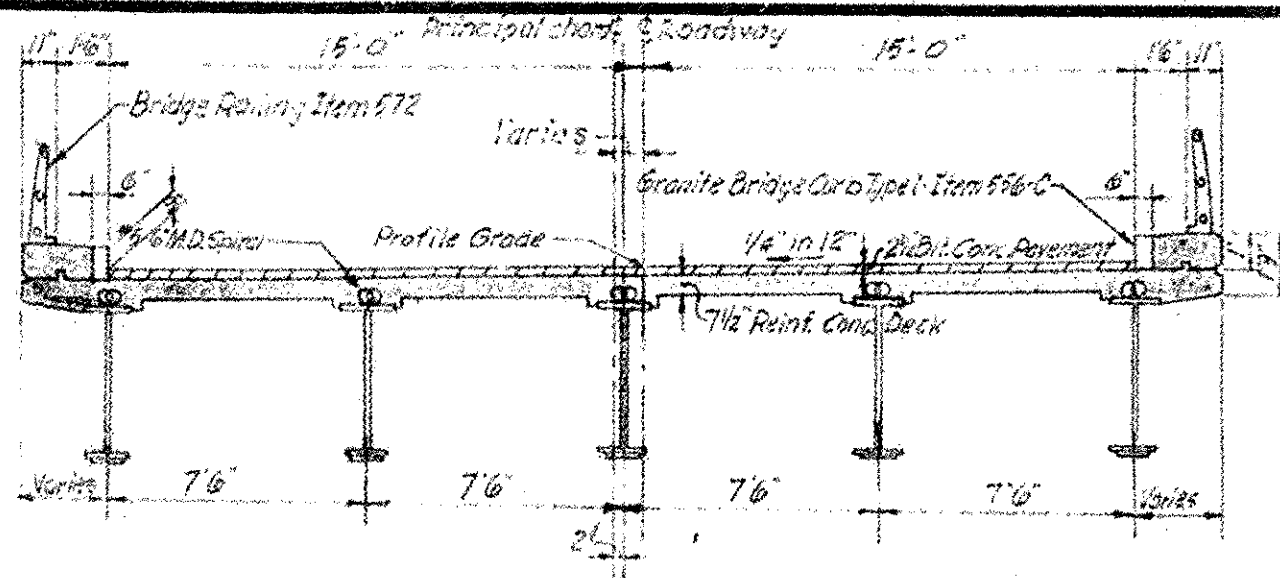


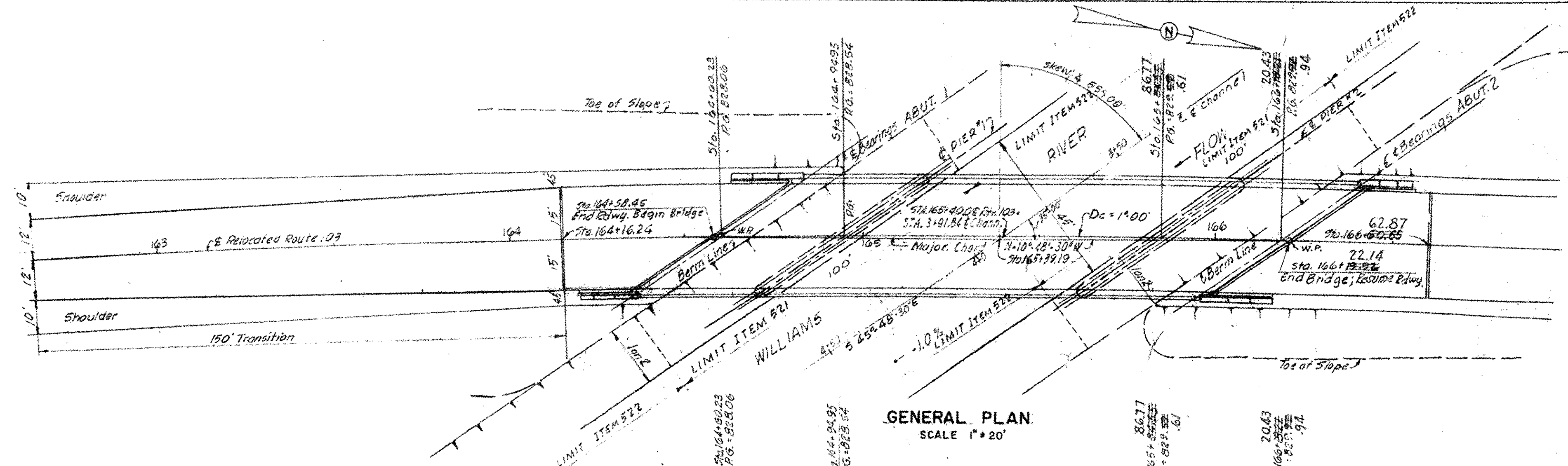
NEW HIGHWAY SECT-ADJACENT TO BRIDGE

SCALE: 1"=10'



TYPICAL BRIDGE SECTION

SCALE 1"=5'



GENERAL PLAN

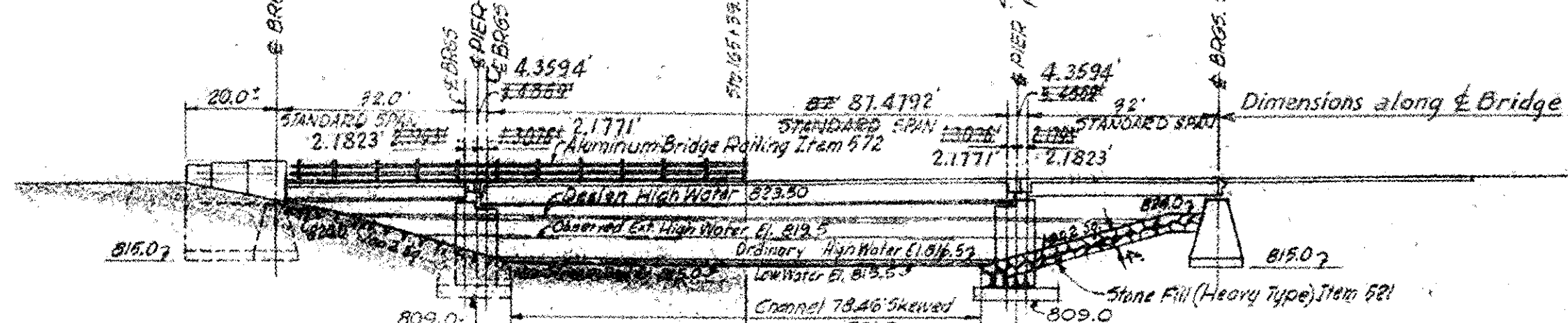
SCALE 1"=20'

HORIZONTAL CURVE DATA

Bank 1/4" per ft.  
 $\Delta = 10^\circ 17' RT.$   
 $D = 1^\circ 00'$   
 $R = 5729.58'$   
 $T = 515.55'$   
 $L = 1028.33'$

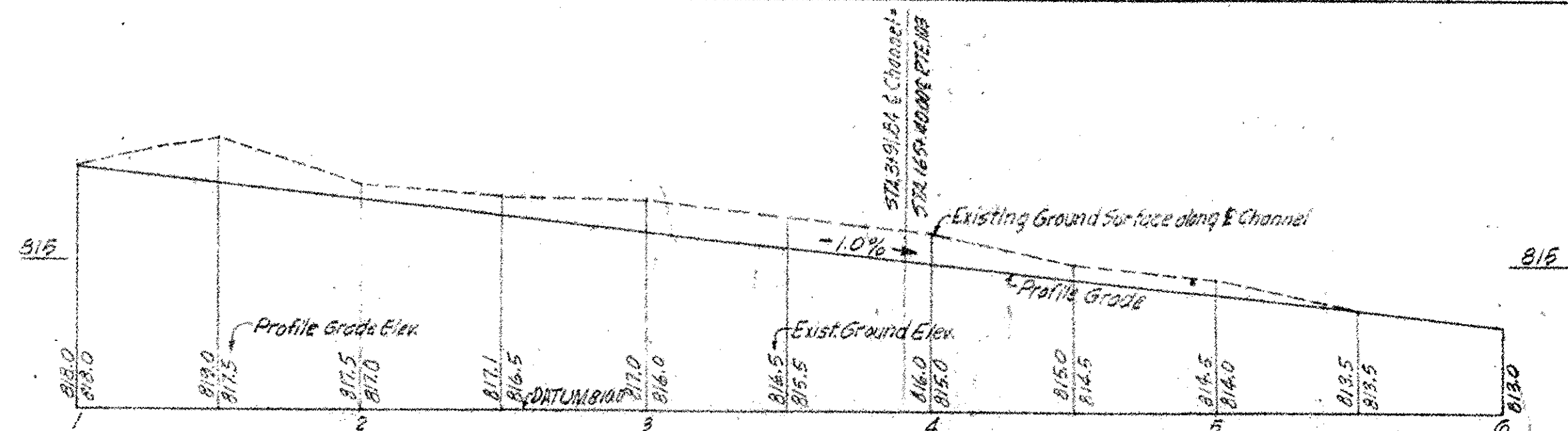
VERTICAL CURVE DATA

400 Vertical Curve  
 PVI Sta. 164+00 ELEV. 821.8  
 PVI Sta. 166+00 ELEV. 820.4  
 PVI Sta. 168+00 ELEV. 818.0  
 $E = 0.61\%$   
 $g_1 = +1.64\%$   
 $g_2 = +0.31\%$



HALF ELEVATION - HALF SECTION

SCALE 1"=20'



PROFILE OF PROPOSED STREAM CHANNEL

SCALE HOR. 1"=40'  
 VERT. 1"=4'

HIGHWAY NO. Vt. Rt. 103 NAME OF HIGHWAY \_\_\_\_\_  
 STRUCTURE NO. \_\_\_\_\_ COUNTY WINDSOR TOWN CHESTER  
 PROJECT NO. F 025-1(8) LOCATION APPROX. 1700' SOUTH OF  
CHESTER-CAVENDISH TOWN LINE

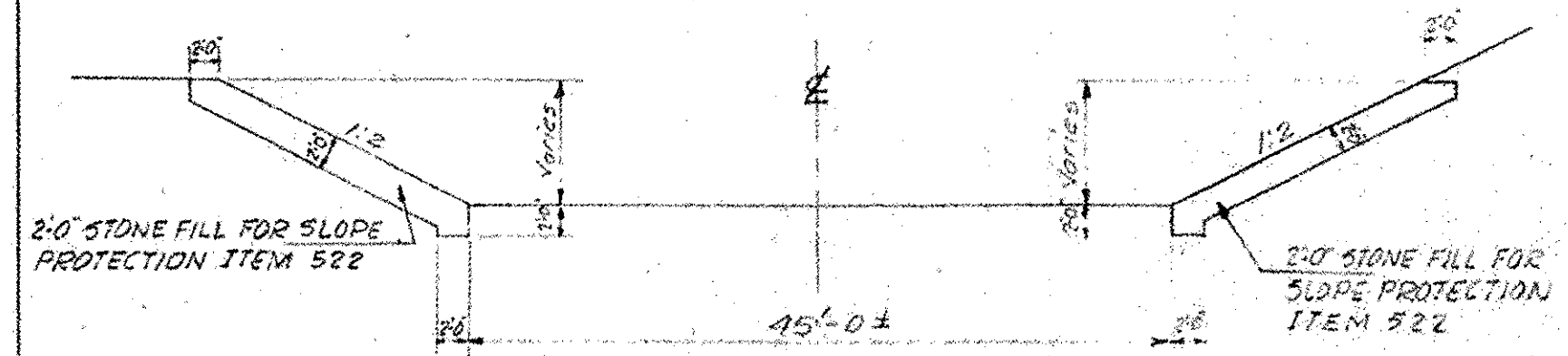
EXISTING STRUCTURE

- 1 RATED LOADING OF EXISTING STRUCTURE H15
- 2 TYPE OF EXISTING STRUCTURE SINGLE SPAN PONY TRUSS
- 3 UNDERCLEARANCE ELEVATION OF EXISTING STRUCTURE 823.4
- 4 WHAT DISPOSITION SHOULD BE MADE OF EXISTING STRUCTURE TO STATE. COST OF REMOVAL \$1,000.00
- 5 SHOULD EXISTING STRUCTURE BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE NO
- 6 SHOULD NEW TEMPORARY STRUCTURE BE BUILT YES
- 7 ORDINARY HIGH WATER SURFACE ELEV. AT EXISTING STRUCTURE 812.4 WATERWAY TO ORDINARY H.W. 50 SF.
- 8 EXTREME HIGH WATER AT EXISTING STRUCTURE (OBSERVED) 820.2 WATERWAY TO EXTREME H.W. 200 SF.
- 9 SPAN OF EXISTING BRIDGE UPSTREAM 34 FT. WATERWAY TO EXTREME H.W. 110.5 SF.
- 10 SPAN OF EXISTING BRIDGE DOWNSTREAM 35 FT. WATERWAY TO EXTREME H.W. 100.0 SF.
- 11 TYPE OF FOUNDATION UNDER EXISTING ABUTMENTS MOIST SAND CORRECTION AND BENTONS
- 12 DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE YES
- 13 IF NOT AT WHAT ELEVATION IS RELIEF AFFORDED \_\_\_\_\_
- 14 ADDITIONAL WATERWAY AREA PROVIDED NONE

NEW STRUCTURE

- 1 RECOMMENDED TYPE OF STRUCTURE 87.48' NON-STANDARD THREE SPAN COMPOSITE DECK AND STEEL BEAM BRIDGE
- 2 RECOMMENDED CLEAR SPAN OR SPANS DEPARTMENT STANDARD SPANS 32'-00" 32'-00" 32'-00"
- 3 MEASURED PARALLEL TO NEW HIGHWAY 28.05' 28.05' 28.05' CLEAR SPANS # 84.86'
- 4 MEASURED AT RIGHT ANGLES TO STREAM 16.01' 16.01' 16.01' CLEAR SPANS # 48.6'
- 5 ARE THERE OBJECTIONS TO A PIER IN THE STREAM, ANSWER YES OR NO YES
- 6 ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE 818.5
- 7 EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE 819.5 SOURCE OF INFORMATION LOCAL RESIDENTS
- 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 818.5
- 11 DRAINAGE AREA IN ACRES ABOVE STRUCTURE 11.000 CHARACTER OF TERRAINE HILLY
- 12 IS STREAM EVER DRY? NO
- 13 VELOCITY OF STREAM AT DESIGN HIGH WATER STAGE 14.8 FPS ESTIMATED DISCHARGE 7830 CFS
- 14 AREA FULL OPENING 450 SF. AREA BELOW ORDINARY H.W. 70 SF. BELOW E.H.W. 250 SF.
- 15 CHARACTER OF SCOUR NEGLECTIBLE DRIFT POSSIBLE ICE VERY POSSIBLE
- 16 ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE NOT APPLICABLE
- 17 VERTICAL CLEARANCE ABOVE FLOOD ELEVATION 1.0 FT. 1' ABOVE DESIGN HIGH WATER
- 18 ARE SIDEWALKS REQUIRED, IF SO ON WHAT SIDE NONE BOTH SIDES \_\_\_\_\_
- 19 RECOMMENDED TYPE OF PAVEMENT 2 1/2" INCHES BITUMINOUS CONCRETE ITEM 301-B
- 20 TRAFFIC TO BE MAINTAINED UNDER ITEM NO. 108 ONE OR TWO WAYS TWO PROBABLE COST \_\_\_\_\_
- 21 PROBABLE COST OF CLEARING AND GRUBBING STREAM CHANNEL AT STRUCTURE SITE NONE
- 22 SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES? NO
- 23 ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS 2.0 T/SF SHOULD PILES BE USED? NO EST. LGTH. \_\_\_\_\_
- 24 DESIGN LOADING AASHTO H20-S16

BRIDGE 16  
 FOR REFERENCE ONLY  
 SHEET 9 OF 16



TYPICAL SECTION CHANNEL IMPROVEMENT

SCALE 1"=10'

DEPT. STANDARD BRIDGE SHEET NOS.

1. SCB-30-58 10F2
2. SCB-30-58 20F2
3. SB-20-56
4. SB-56-57 10F2

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS

**ROUTE 103**  
**CHESTER PROJECT F 025-1(8)**  
**BRIDGE AT STATION 165+40**

PRELIMINARY INFORMATION SHEET

SURVEYED BY J. I. B. CHECKED BY J. I. B. SCALE AS SHOWN  
 DRAWN BY J. I. B. IN CHARGE J. I. B. DATE 12-22-55

PROJECT NO. F 025-1(8) SHEET 35 OF 208

CORRECT \_\_\_\_\_ APPROVED \_\_\_\_\_  
 BRIDGE ENGINEER CHIEF ENGINEER