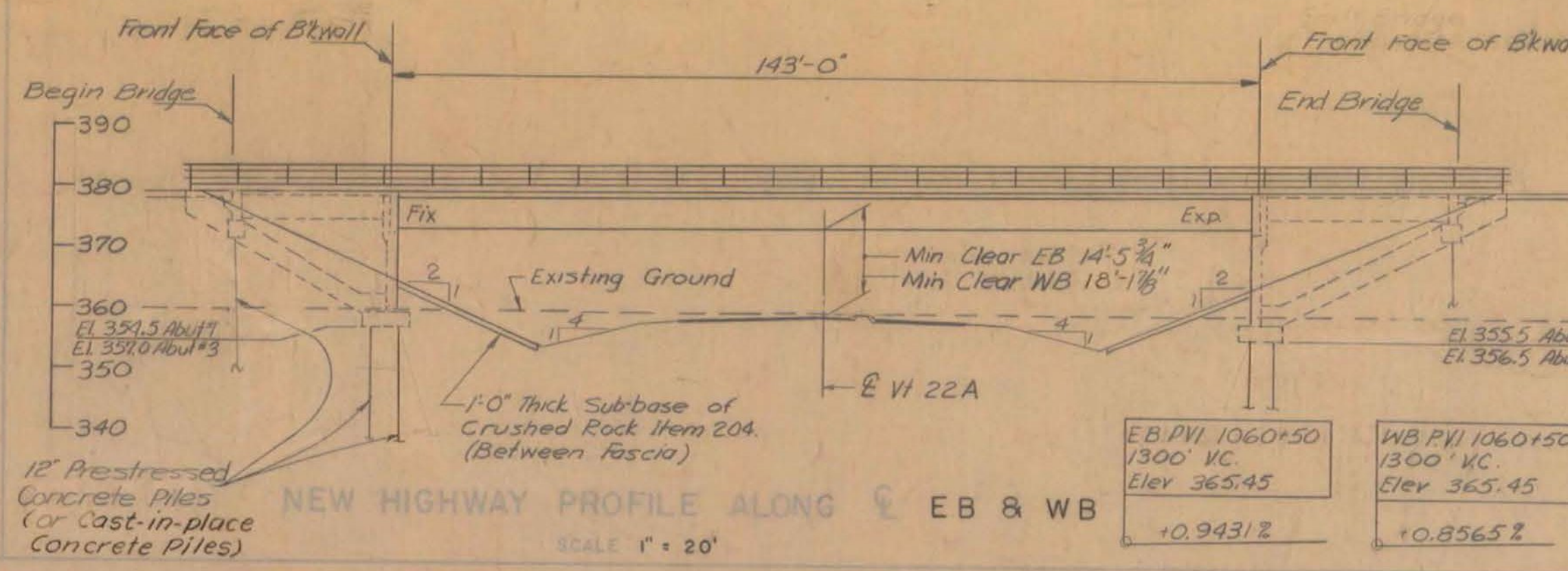


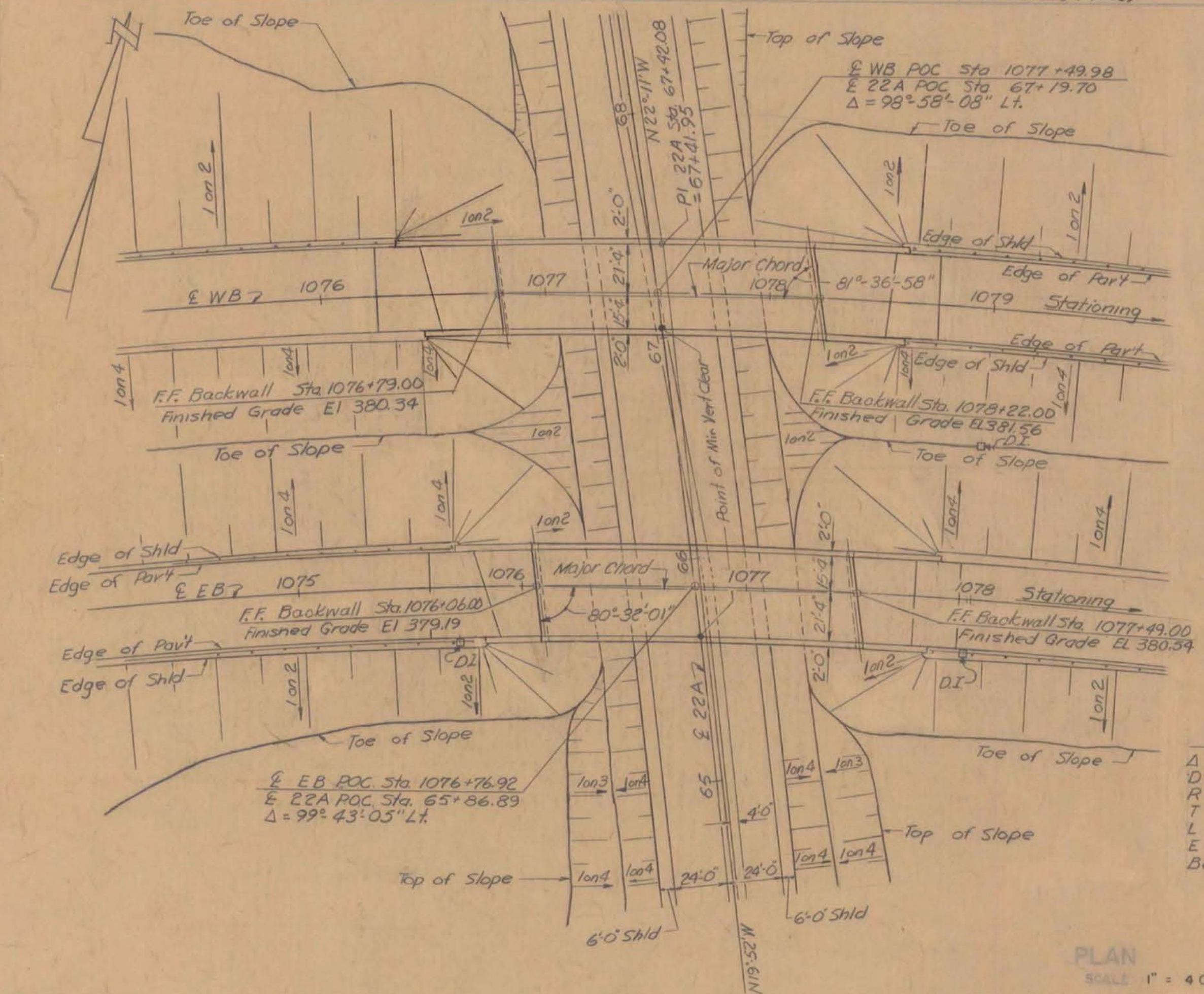
NEW HIGHWAY SECT. STA 1075+00 TO STA 1079+00

SCALE 1" = 20'

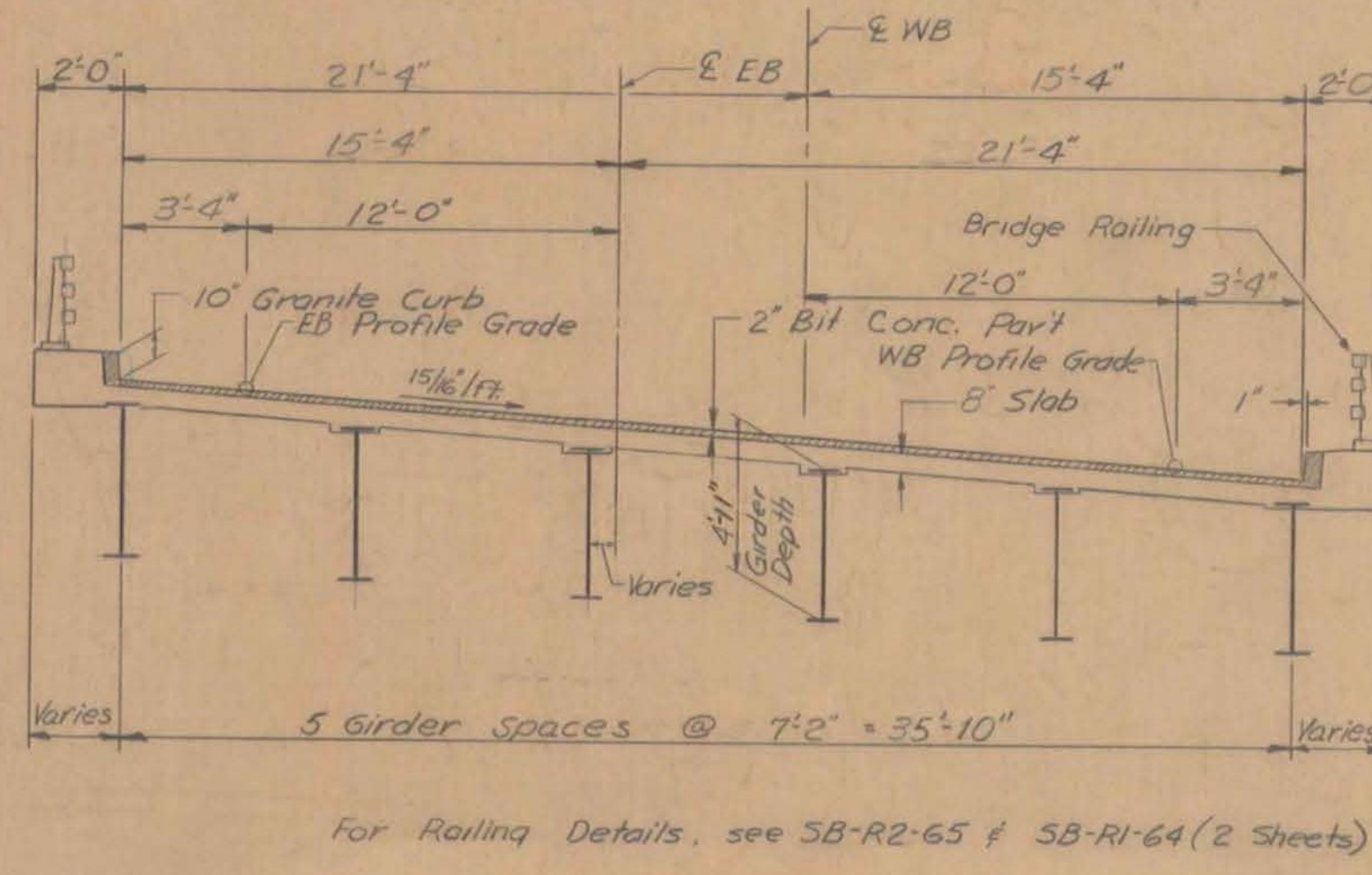


NEW HIGHWAY PROFILE ALONG EB & WB

SCALE 1" = 20'



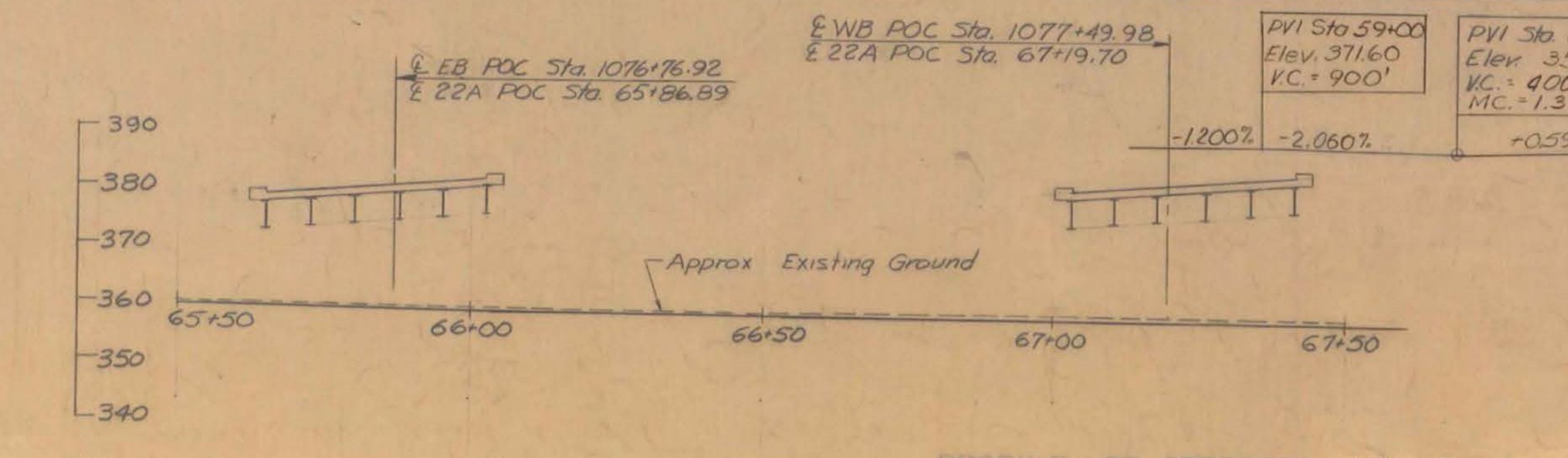
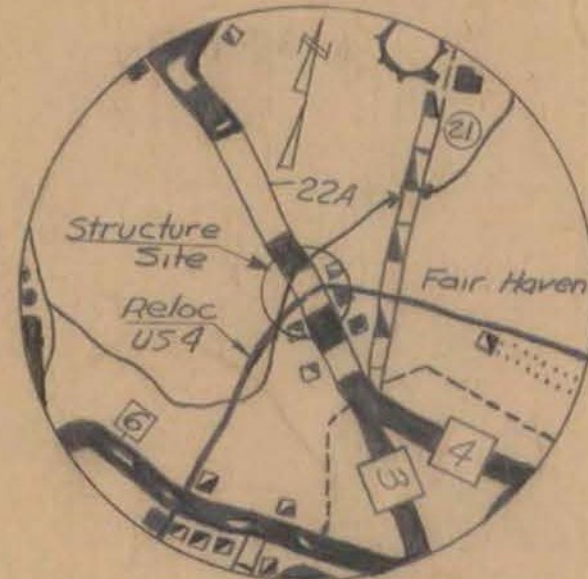
PLAN SCALE 1" = 40'



TYPICAL SECTION SCALE 1" = 5'

CURVE DATA

EB US 4	WB US 4	VT 22A
Δ 74°-44'-00" Rt	Δ 70°-21'-00" Rt	Δ 2°-19'-00" Lt
D 3'-00"	D 3'-00"	D 0'-15"
R 1909.86	R 1909.86	R 22,918.32
T 1458.44	T 1346.01	T 463.40
L 2491.11	L 2345.00	L 926.67
E 493.18	E 426.66	E 4.68
Bank 1 1/2% per ft	Bank 1 1/2% per ft	No Bank



PROFILE OF PROPOSED VT 22A

SCALE 1" = 20'

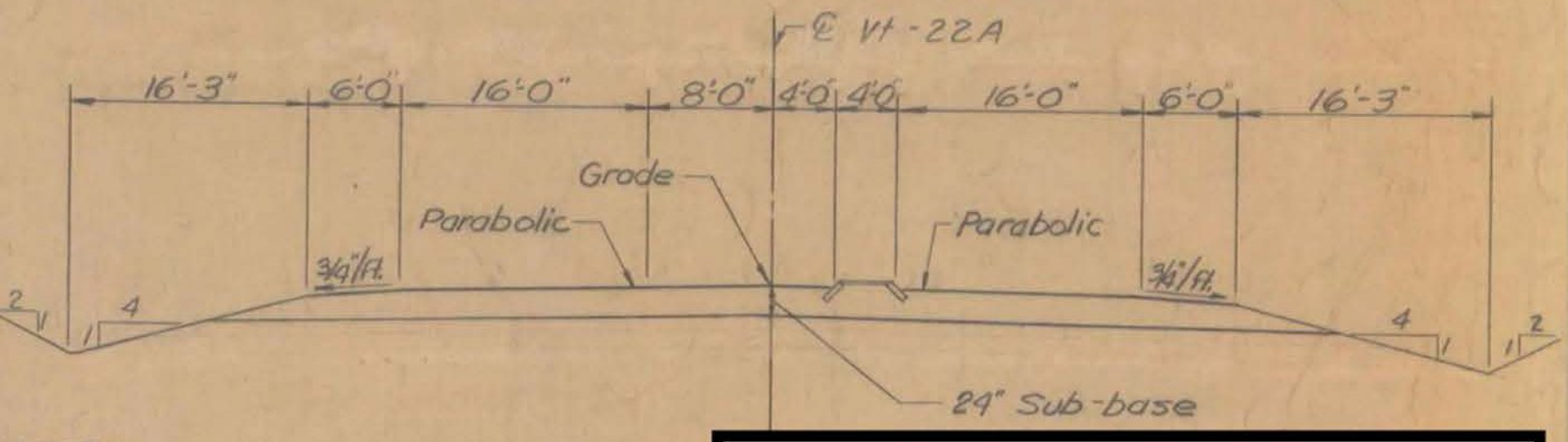
NOTES:
 All materials and construction shall conform to the State of Vermont, Department of Highways, Standard Specifications for Highway and Bridge Construction dated April 1964 and the AASHTO Standard Specifications dated 1965, as modified by current Interim Specifications.
 Structure designed for HS-20-44 loading modified for National System of Interstate Highways applied in accordance with the provisions of the AASHTO Standard Specifications Article 1.2.8.
Design Stresses
 Concrete - $f_c = 3000$ psi - $f_t = 1200$ psi
 Structural Steel - $f_s = 20,000$ psi (A36 other steels as per AASHTO Specifications)
 Reinforcing Steel - $f_s = 20,000$ psi (tension)
 $f_s = 16,000$ psi (compression)

HIGHWAY NO. U.S. 4 NAME OF HIGHWAY U.S. ROUTE 4
 STRUCTURE NO. 5 COUNTY RUTLAND TOWN FAIR HAVEN
 PROJECT NO. F020-1(4) LOCATION U.S. ROUTE 4 RELOCATION OVER VERMONT 22A RELOCATION
 0.4 MILE NORTH ALONG EXISTING 22A FROM ITS INTERSECTION WITH 4th STREET.

- EXISTING STRUCTURE**
1. RATED LOADING OF EXISTING STRUCTURE
 2. TYPE OF EXISTING STRUCTURE
 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 WATERWAY TO EXTREME H.W.
 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 2. SINGLE SPAN BRIDGES, WELDED PLATE GIRDERS - COMPOSITE
 3. RECOMMENDED CLEAR SPAN OR SPANS 143'-0" EB, 143'-0" WB
 4. MEASURED PARALLEL TO NEW HIGHWAY
 5. MEASURED AT RIGHT ANGLES TO STREAM
 6. ARE THERE OBJECTIONS TO A PIER IN THE STREAM? ANSWER YES OR NO
 7. ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE
 8. EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE SOURCE OF INFORMATION
 9. DOES STREAM INTEND TO PASS THROUGH NEW STRUCTURE?
 10. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? IS ORDINARY RISE RAPID?
 11. LOW WATER ELEVATION AT NEW STRUCTURE
 12. DRAINAGE AREA IN ACRES ABOVE STRUCTURE CHARACTER OF TERRAIN
 13. IS STREAM EVER DRY?
 14. VELOCITY OF STREAM AT HIGH WATER STAGE ESTIMATED DISCHARGE
 15. AREA FULL OPENINGS AREA BELOW ORDINARY H.W.
 16. CHARACTER OF SCOUR BRIFT ICE
 17. ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE
 18. VERTICAL CLEARANCE ABOVE FLOOD ELEVATION
 19. ARE SIDEWALKS REQUIRED? IF SO ON WHAT SIDE? NO BOTH SIDES CONCRETE
 20. RECOMMENDED TYPE OF PAVEMENT 2" BITUMINOUS CONCRETE 8" CONCRETE
 21. TRAFFIC TO BE MAINTAINED UNDER ITEM NO. ONE OR TWO WAYS PROBABLE CONT.
 22. PROBABLE COST OF CLEARING AND GRUBBING STREAM CHANNEL AT STRUCTURE SITE
 23. SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES? NO
 24. ESTIMATED WINDLOAD ON FOUNDATIONS 40 T/PILE SHOULD PILES BE USED? YES SEE BELOW

FOUNDATION INFORMATION
 OBTAINED FOR DESIGN PURPOSES ONLY, AND THE STATE ASSUMES NO RESPONSIBILITY WHATSOEVER FOR THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN. SHOULDERS NOT BE ENCOUNTERED AT ANY PIER OR ABUTMENT LOCATION.
 ESTIMATED PILE LENGTH ABUTMENT # 1 - 165', ABUTMENT # 2 - 160', ABUTMENT # 3 - 140' TO 160', ABUTMENT # 4 - 185'



NOTE: For location of 4' mail see VT 22A alignment data sheet.

**FAIR HAVEN - WEST RUTLAND
 BF MEMB (35)
 SHEET 14 OF 44
 BRIDGE NOS. 5E AND 5W
 FOR REFERENCE ONLY**

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS

U.S. ROUTE 4 IN THE TOWNS OF
 FAIR HAVEN
 ROUTE NO. 4 LOG STA. WB 1077+50
 EB 1076+77
 US RTE 4 RELOC OVER VT 22A RELOC

M^cFARLAND-JOHNSON
 CONSULTING ENGINEERS

RECOMMENDED FOR APPROVAL
 CONSTRUCTION ENGINEER DATE 9/28/67
 SUPERVISOR DATE 9/27/67
 ASST. ENGINEER DATE 9/28/67
 CHIEF ENGINEER DATE 9/28/67

APPROVED BY
 JHT 11/30-67
 JHT 11/30-67

REVISIONS
 Bridge Width
 Abutment Details & Approach Slab Location

PROJECT NO. F020-1(4) SHEET 182 OF 255
 DATE 2-19-68
 DRAWN BY BJK
 CHECKED BY BJK

8R503