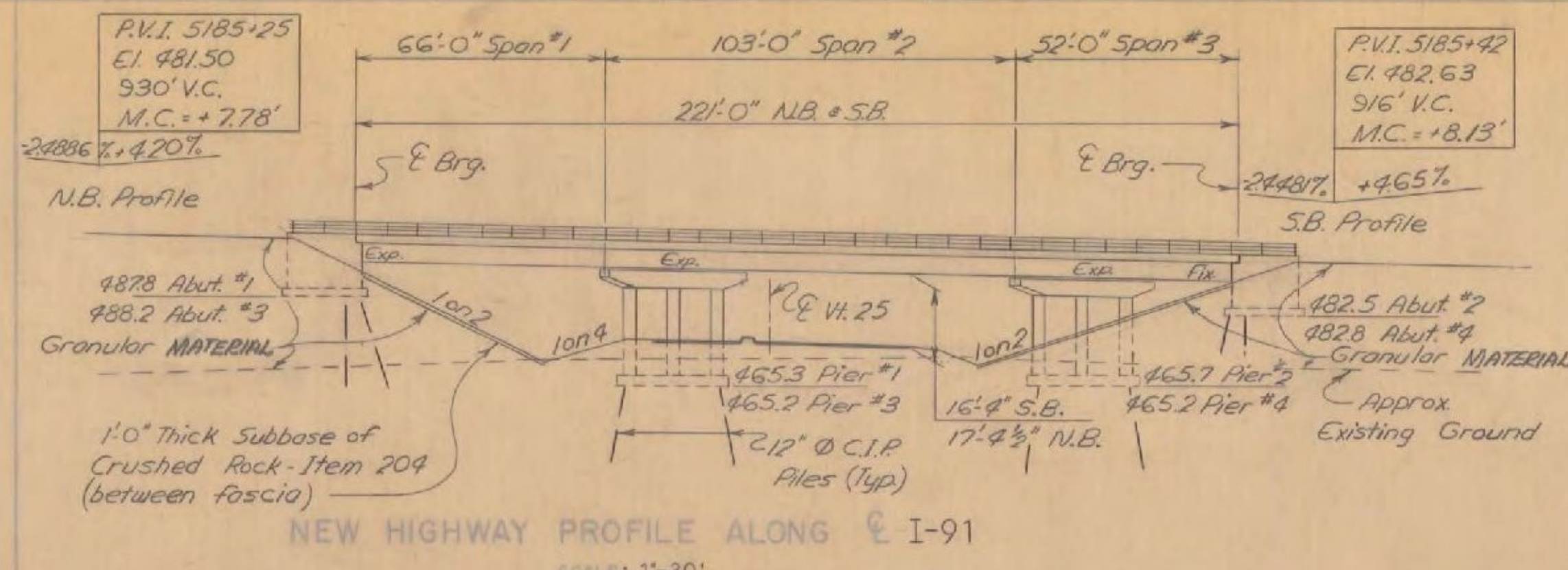
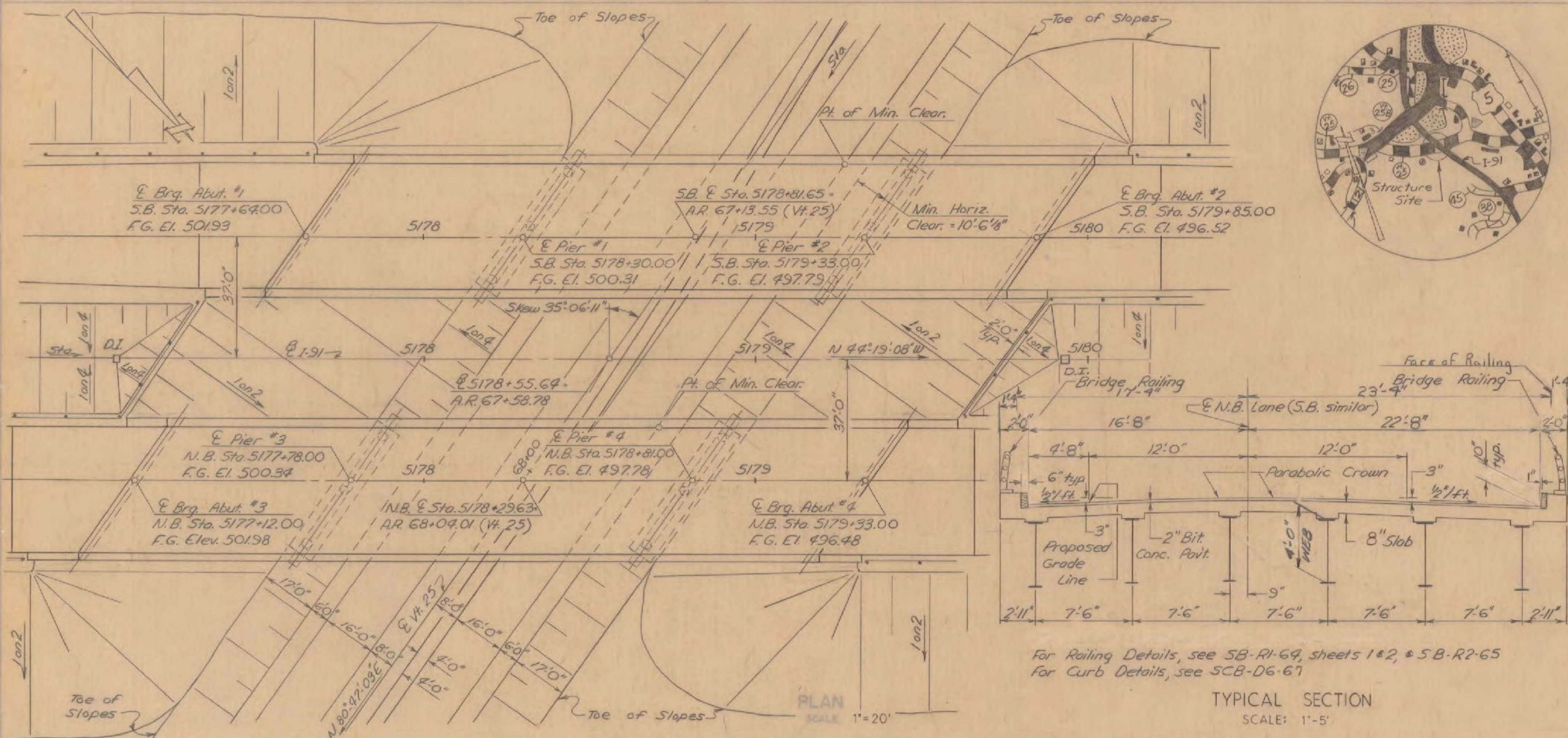


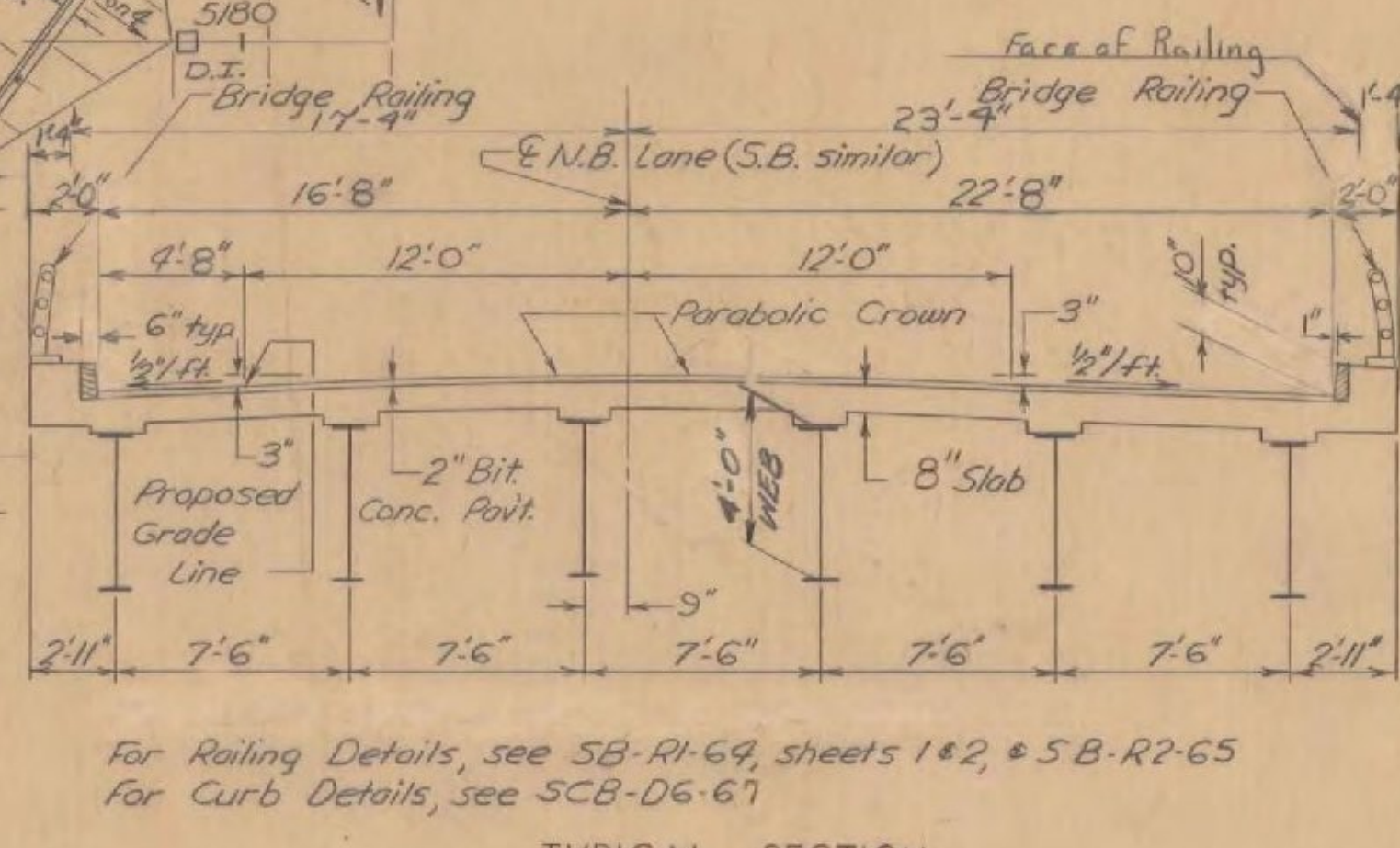
NEW HIGHWAY SECT. STA. 5175+00 TO STA. 5182+00  
SCALE: 1"=10'



NEW HIGHWAY PROFILE ALONG E-I-91  
SCALE: 1"=30'



PLAN  
SCALE: 1"=20'



TYPICAL SECTION  
SCALE: 1"=5'

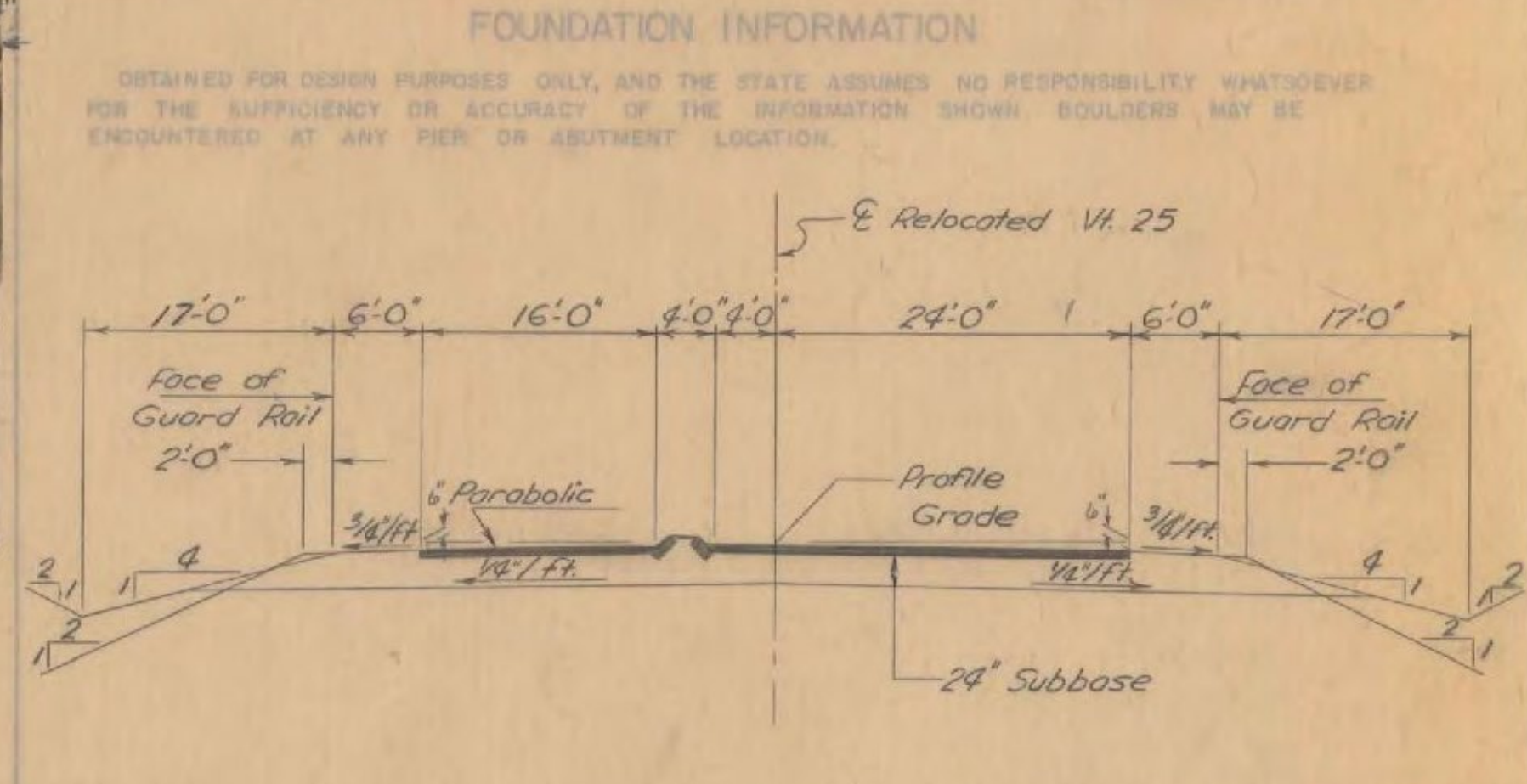
HIGHWAY NO I 91 NAME OF HIGHWAY INTERSTATE ROUTE 91  
STRUCTURE NO COUNTY ORANGE TOWN BRADFORD  
PROJECT NO. I 91-2101 LOCATION I-91 OVER VT 25 (BRADFORD INTERCHANGE)

**EXISTING STRUCTURE**

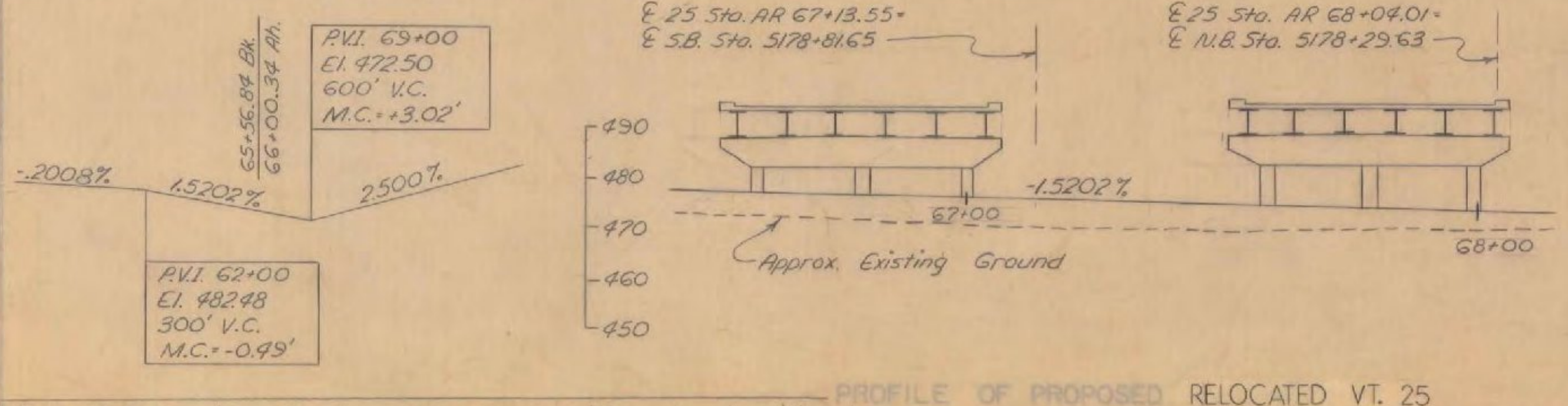
- 1 RATED LOADS OF EXISTING STRUCTURE \_\_\_\_\_
- 2 TYPE OF EXISTING STRUCTURE \_\_\_\_\_
- 3 UNDERCROWN ELEVATION OF EXISTING STRUCTURE \_\_\_\_\_
- 4 WHAT DISPOSITION SHOULD BE MADE OF EXISTING STRUCTURE? COST OF REMOVAL \_\_\_\_\_
- 5 SHOULD EXISTING STRUCTURE BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION 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 Three Span Continuous Welded Plate Girder, Composite
- 2 RECOMMENDED CLEAR SPAN OR SPANS 66'-0", 103'-0", 52'-0"
- 3 MEASURED PARALLEL TO E NEW HIGHWAY 66'-0", 103'-0", 52'-0"
- 4 MEASURED AT RIGHT ANGLES TO E STREAM \_\_\_\_\_
- 5 ARE THERE OBJECTIONS TO A PIER IN THE STREAM? ANSWER YES OR NO \_\_\_\_\_
- 6 IS ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE \_\_\_\_\_ SOURCE OF INFORMATION \_\_\_\_\_
- 7 EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE \_\_\_\_\_ SOURCE OF INFORMATION \_\_\_\_\_
- 8 DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? \_\_\_\_\_ IS ORDINARY RISE RAPID? \_\_\_\_\_
- 9 LOW WATER ELEVATION AT NEW STRUCTURE \_\_\_\_\_
- 10 DRAINAGE AREA IN ACRES ABOVE STRUCTURE \_\_\_\_\_ CHARACTER OF TERRAIN \_\_\_\_\_
- 11 IS STREAM EVER DRY \_\_\_\_\_
- 12 VELOCITY OF STREAM AT HIGH WATER STAGE \_\_\_\_\_ ESTIMATED DISCHARGE \_\_\_\_\_
- 13 AREA FULL OPENING \_\_\_\_\_ AREA BELOW ORDINARY H.W. \_\_\_\_\_
- 14 CHARACTER OF SCOUR \_\_\_\_\_ ICE \_\_\_\_\_
- 15 ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE \_\_\_\_\_
- 16 VERTICAL CLEARANCE ABOVE FLOOD ELEVATION \_\_\_\_\_
- 17 ARE SIDEWALKS REQUIRED? IF SO ON WHAT SIDE? No BOTH SIDES
- 18 RECOMMENDED TYPE OF PAVEMENT 2" Bituminous Concrete, 8" Concrete
- 19 TRAFFIC TO BE MAINTAINED UNDER ITEM NO. \_\_\_\_\_ ONE OR TWO WAYS \_\_\_\_\_ PROBABLE COST \_\_\_\_\_
- 20 PROBABLE COST OF CLEARING AND GRUBBING STREAM CHANNEL AT STRUCTURE SITE \_\_\_\_\_
- 21 SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES? No
- 22 ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS 40 Tons/ft<sup>2</sup> SHOULD PILES BE USED? Yes EST. LTH. See Boring Log



TYPICAL APPROACH SECTION (VT. RTE 25)  
SCALE: 1"=10'



PROFILE OF PROPOSED RELOCATED VT. 25  
SCALE: 1"=20'

**Note:**  
All materials and construction shall conform to the State of Vermont, Department of Highways, Standard Specifications for Highway and Bridge Construction dated April 1969 and AASHTO Standard Specifications dated 1969.

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 Art 1-2.8.

**Design Stresses**  
Concrete:  $f_c = 3000$  psi,  $f_c = 1200$  psi  
Structural Steel:  $f_s = 20,000$  psi  
(A-36 other steels as per AASHTO specifications)  
Reinforcing Steel:  $f_s = 20,000$  psi (tension)  
 $f_s = 16,000$  psi (compression)

**STATE OF VERMONT**  
DEPARTMENT OF HIGHWAYS

191 IN THE TOWNS OF  
FAIRLEE - BRADFORD

ROUTE NO I 91 LOG STA N.B. 5178+29.63  
INTERSTATE 91 OVER VERMONT RTE. 25 SB 5178+81.65

MCFARLAND - JOHNSON  
CONSULTING ENGINEERS

APPROVED BY: [Signatures] DATE: 12/18/69

PROJECT NO. I 91-2101 SHEET 171 OF 868

BRADFORD - NEWBURY  
IM BPNT (14)  
PROJECT BRIDGE 58  
SHEET 14 OF 26  
FOR INFORMATION ONLY