

LIST OF SHEETS

- BR 700 PRELIMINARY INFORMATION SHEET
- BR 701 BRIDGE QUANTITY SHEET
- BR 702 PLAN & ELEVATION SHEET - (NORTHBOUND)
- BR 703 PLAN & ELEVATION SHEET - (SOUTHBOUND)
- BR 704 BORING LOGS - NORTHBOUND
- BR 705 BORING LOGS - SOUTHBOUND
- BR 706 SUPERSTRUCTURE DETAILS
- BR 707 SOLE PLATE, BEARINGS & CROSS FRAME DETAILS
- BR 708 BRIDGE APPROACH RAIL DETAILS
- BR 709 APPROACH SLAB & DECK REINFORCING PLAN
- BR 710 ABUTMENT NO. 1 DETAILS
- BR 711 ABUTMENT NO. 2 DETAILS
- BR 712 ABUTMENT NO. 3 DETAILS
- BR 713 ABUTMENT NO. 4 DETAILS
- BR 714 WINGWALL DETAILS - (NORTHBOUND)
- BR 715 WINGWALL DETAILS - (SOUTHBOUND)
- BR 716-BR 718 REINFORCING STEEL SCHEDULES

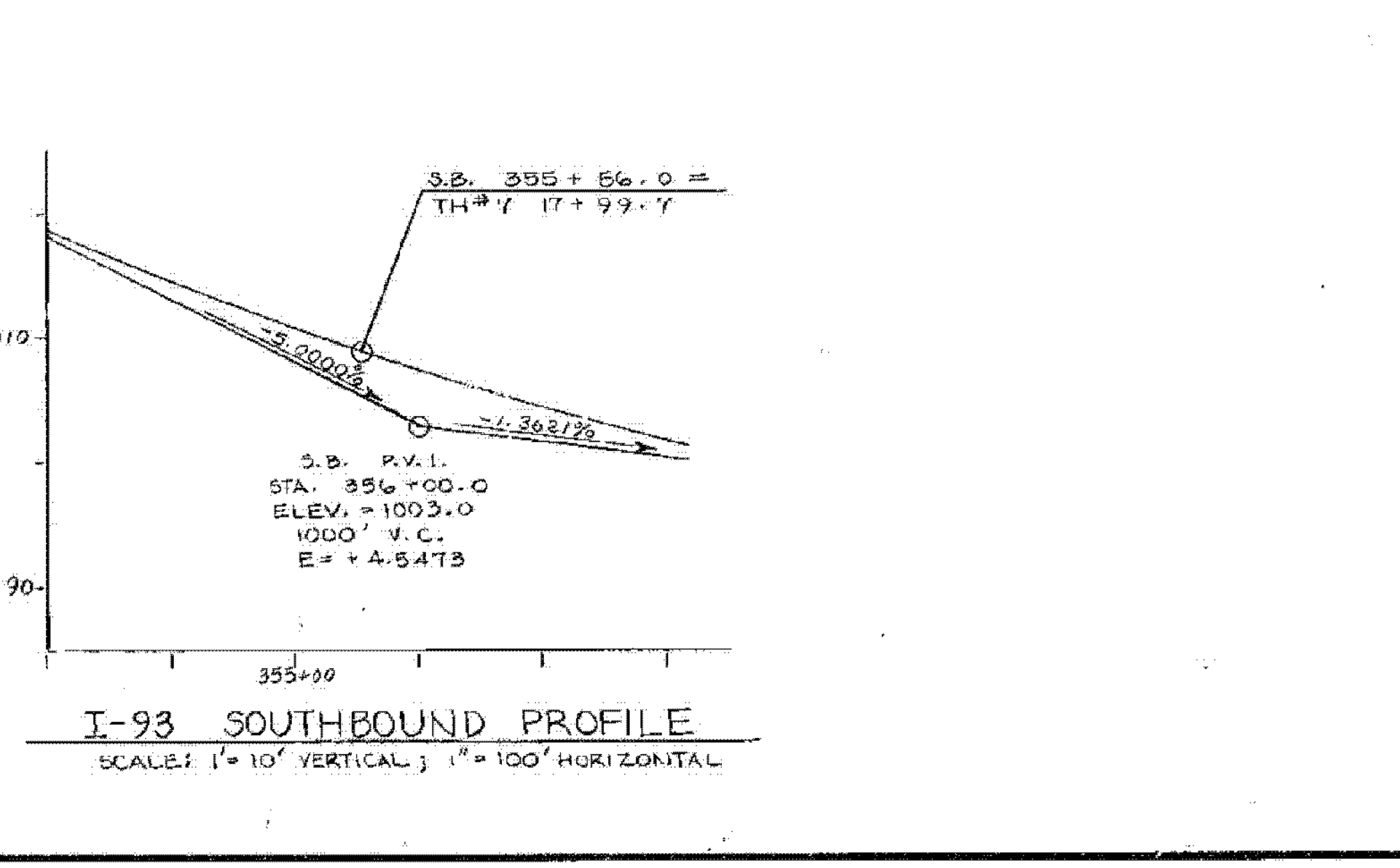
STANDARD SHEETS

- SCB-D1-75 APRIL 3, 1978 (R)
- SCB-D4-76 JANUARY 8, 1978 (R)
- SCB-D6-77 JANUARY 3, 1979 (R)
- SCB-D7-71 (Detail C) DECEMBER 15, 1976 (R)
- SCB-D9-71 JANUARY 27, 1975 (R)
- SB-24-73 NOVEMBER 21, 1979 (R)

REFERENCE SHEETS

- I-93, NBSSB PLAN, STA. 339+0 - 371+0 (2 SHEETS)
- I-93, NBSSB PROFILE, STA. 339+0 - 371+0 (2 SHEETS)
- TH #7 RELOCATION PLAN, STA. 240 - 240 (1 SHEET)
- TH #7 RELOCATION FACILITIES, STA. 640 - 2240 (2 SHEETS)
- I-93, NB X-SECTIONS, STA. 352+0 - 356+50 (2 SHEETS)
- I-93, SB X-SECTIONS, STA. 352+0 - 359+50 (2 SHEETS)
- TH #7 RELOCATION X-SECTIONS, STA. 1640 - 2140 (4 SHEETS)

PROJECT LOCATION
SCALE: 1" = 1 MILE



EXISTING STRUCTURE

- STRUCTURE TYPE _____ OVERALL LENGTH _____ INVENTORY RATING _____
- SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS _____
- CLEAR SPAN LENGTH(S) NORMAL TO STREAM _____ VERTICAL CLEARANCE ABOVE STREAMBED _____
- WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM) _____ WATER SURFACE ELEVATION @ Q _____
- WATER SURFACE ELEVATION @ Q 2.33 _____ YEAR _____ ESTIMATED DISCHARGE _____
- WATER SURFACE ELEVATION AT FLOOD OF RECORD _____ YEAR _____ ESTIMATED DISCHARGE _____
- DOES ALL WATER PASS THROUGH EXISTING STRUCTURE? _____ IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR? _____
- ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF _____
- TYPE OF SUBSIDIARY FOUNDATION MATERIAL _____
- DISPOSITION OF STRUCTURE _____

NEW STRUCTURE

STRUCTURE GEOMETRY:

- STRUCTURE TYPE PLATE GIRDER BRIDGE OVERALL LENGTH N.B. = 199.16' S.B. = 100.96'
- SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS 104'
- VERTICAL CLEARANCE ABOVE EXISTING ROAD UNDER N.B. = 15'-6" MIN. S.B. = 15'-3" MIN.
- CLEAR SPAN LENGTH(S) NORMAL TO STREAM N/A
- WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM) N/A
- ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES? NO

HYDRAULIC DATA:

- Q 2.33 WATER ELEVATION _____ VELOCITY _____
- Q 10 WATER ELEVATION _____ VELOCITY _____
- Q 25 WATER ELEVATION _____ VELOCITY _____
- Q 50 WATER ELEVATION _____ VELOCITY _____
- Q 100 WATER ELEVATION _____ VELOCITY _____
- DRAINAGE AREA _____ CHARACTER OF TERRAIN _____
- ARE THERE OBJECTIONS TO A PIER IN THE STREAM? _____ IS ORDINARY RISE RAPID? _____
- DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? _____
- NATURE OF NATURAL STREAMBED _____ COMMENT ON: DRIFT _____ ICE _____
- ESTIMATED SCOUR DEPTH _____
- WILL ALL WATER PASS THROUGH NEW STRUCTURE? _____ IF NOT, WHAT FREQUENCY AND ELEVATION WILL RELIEF OCCUR? _____
- ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF _____
- VERTICAL CLEARANCE ABOVE Q _____
- ALLOWABLE WATER SURFACE ELEVATION _____ LIMITED BY _____
- IS DESIGN STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? _____ IF YES, DESCRIBE _____
- AVERAGE DAILY LOW FLOW _____ DEPTH _____ AVERAGE DAILY HIGH FLOW _____ DEPTH _____
- STREAMBANK OR CHANNEL PROTECTION REQUIRED _____
- DISTANCE TO EXISTING UPSTREAM STRUCTURE _____ SPAN _____ WATERWAY AREA OF FULL OPENING _____
- DISTANCE TO EXISTING DOWNSTREAM STRUCTURE _____ SPAN _____ WATERWAY AREA OF FULL OPENING _____

ALLOWABLE STRESSES:

- DESIGN LIVE LOAD H525-44
- ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL 4.0 KSF ON LEDGE 10.0 KSF
- ALLOWABLE LOAD FOR PILING _____ TYPE _____ ESTIMATED LENGTH _____
- ALLOWABLE STRESS FOR STRUCTURAL STEEL ASTM A 588 TENSION 27,000 psi
- ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 60 TENSION 24,000 psi COMPRESSION 20,000 psi
- ALLOWABLE STRESS FOR CONCRETE CLASS A f_c = 3,500 psi CLASS B f_c = 1,400 psi

TRAFFIC MAINTENANCE:

- IS TRAFFIC TO BE MAINTAINED? N/A IF YES, ON EXISTING STRUCTURE N/A OR ON TEMPORARY BRIDGE N/A
- TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY _____ TRAFFIC CONTROL SIGNALS REQUIRED _____
- MINIMUM CLEAR SPAN _____ MINIMUM CLEAR HEIGHT _____ MINIMUM WATERWAY AREA _____
- ARE SIDEWALKS REQUIRED? _____ IF SO, ON WHAT SIDE? _____

ADDITIONAL DESIGN CONSIDERATIONS

LOAD RATING (TONS)

STRESS LEVELS	TRUCK						
	H	H8	3S2	6 A4E	3A STR.	4A STR.	5A SEAM
INVENTORY 0.95 P ₁ = 27.0	49	44					
POSTED 0.67 P ₁ = 33.5		69	88		112	73	82
OPERATING 0.75 P ₁ = 37.5			107	125			

RECOMMENDED FOR APPROVAL
W. M. Smith 1-30-80
STRUCTURES ENGINEER DATE

RECOMMENDED FOR APPROVAL
Richard J. Hill 1-30-80
CHIEF OF DESIGN DATE

APPROVED BY
S. J. Clague 1-30-80
DIRECTOR OF ENGINEERING & CONSTRUCTION DATE

REVISIONS

NO.	DESCRIPTION	BY & DATE

STATE OF VERMONT AGENCY OF TRANSPORTATION

TOWN OF WATERFORD Bridge No. 67
Log Sta. _____

HIGHWAY NO. I-93 Surv. Sta. 354+83

I-93 N.B. & S.B. OVER TH #7

PRELIMINARY INFORMATION SHEET

Designed by G. S. ROGERS Drawn by G. L. DAVIS
Checked by R. W. JENSEN Bridge Design Supervisor
date 1/15/80 F. W. Bolkum date 1/80

PROJECT WATERFORD PROJECT NO. I-93-1(3) CONTR. 2
Bridge Sheet No. BR 700 Sheet 151 of 531