Date MAR 26 1987

Blow + Cote Inc.

Contractor

Michael Cote

Signature

President

Title

Transportation Secretary's Signature

STATE OF VERMONT
AGENCY OF TRANSPORTATION

CONTRACT PLANS

THESE PLANS DO NOT REFLECT CHANGES MADE ON THE PROJECT.

PROPOSED IMPROVEMENT
BRIDGE PROJECT

TOWN OF *CHESTER*

COUNTY OF *WINDSOR*

ROUTE NO: *T.H. 9* BRIDGE NO: *67*

PROJECT LOCATION: *BEGIN 1.16 MILES WEST OF THE INTERSECTION OF T.H. 9 AND VT. RTE. 103 AND EXTEND SOUTHWEST ON T.H. 9 A DISTANCE OF 430 FEET.*

PROJECT DESCRIPTION: *CONSTRUCT A NEW SIMPLE SPAN ROLLED BEAM BRIDGE WITH CONCRETE DECK ALONG WITH NECESSARY APPROACHES AND CHANNEL WORK.*

LENGTH OF STRUCTURE:	78.54 FEET
LENGTH OF PARTICIPATION ROADWAY:	352.08 FEET
LENGTH OF NON-PARTICIPATION ROADWAY:	0.0 FEET
LENGTH OF PROJECT:	430.62 FEET

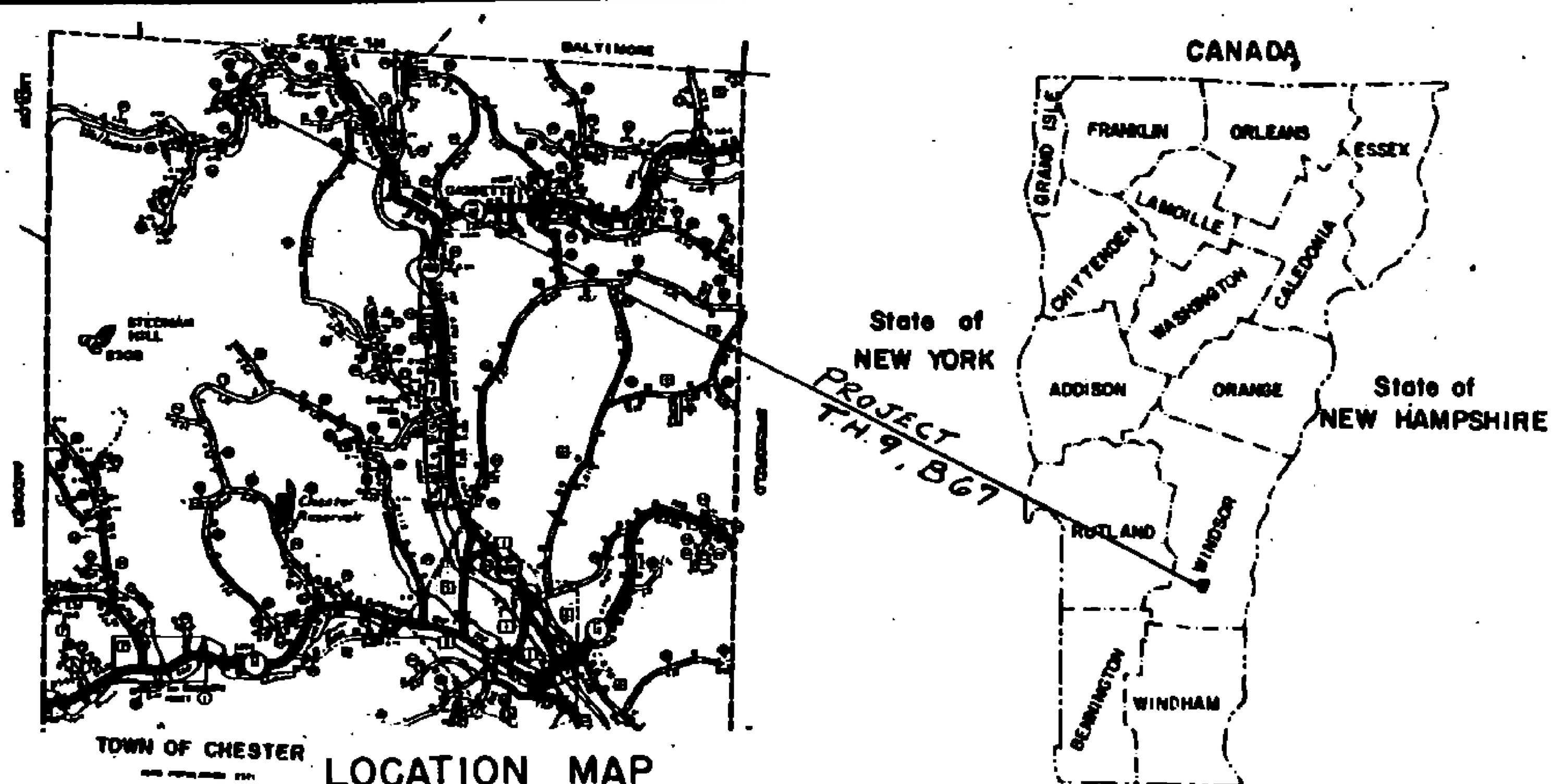
INDEX OF SHEETS

LIST OF STANDARDS

SB-R6-82	BRIDGE RAILING	12/13/84 R
SCB-D1-75	GENERAL INFORMATION AND NOTES	9/14/81 R
SCB-D6-73	DET. B & D	1/3/79 R
SCB-D7-71	DET. C, D & F	12/15/76 R
SCB-D9-71	DET. A	1/27/75 R
D-2	HEADWALL DETAILS	10/30/85 R
E-3	APPROACH SIGNS - BRIDGE	2/3/86 R
E-6	CONSTRUCTION SIGNS	2/3/86 R
E-7	DELINEATION, BARRICADES AND DETOUR	2/3/86 R
E-7A	TYPE III BARRICADE BREAKAWAY	2/3/86 R
G-1	STEEL BEAM GUARD RAIL	10/31/85 R
G-1d	STEEL BEAM GUARD RAIL, APPROACH END DETAILS	10/31/85 R

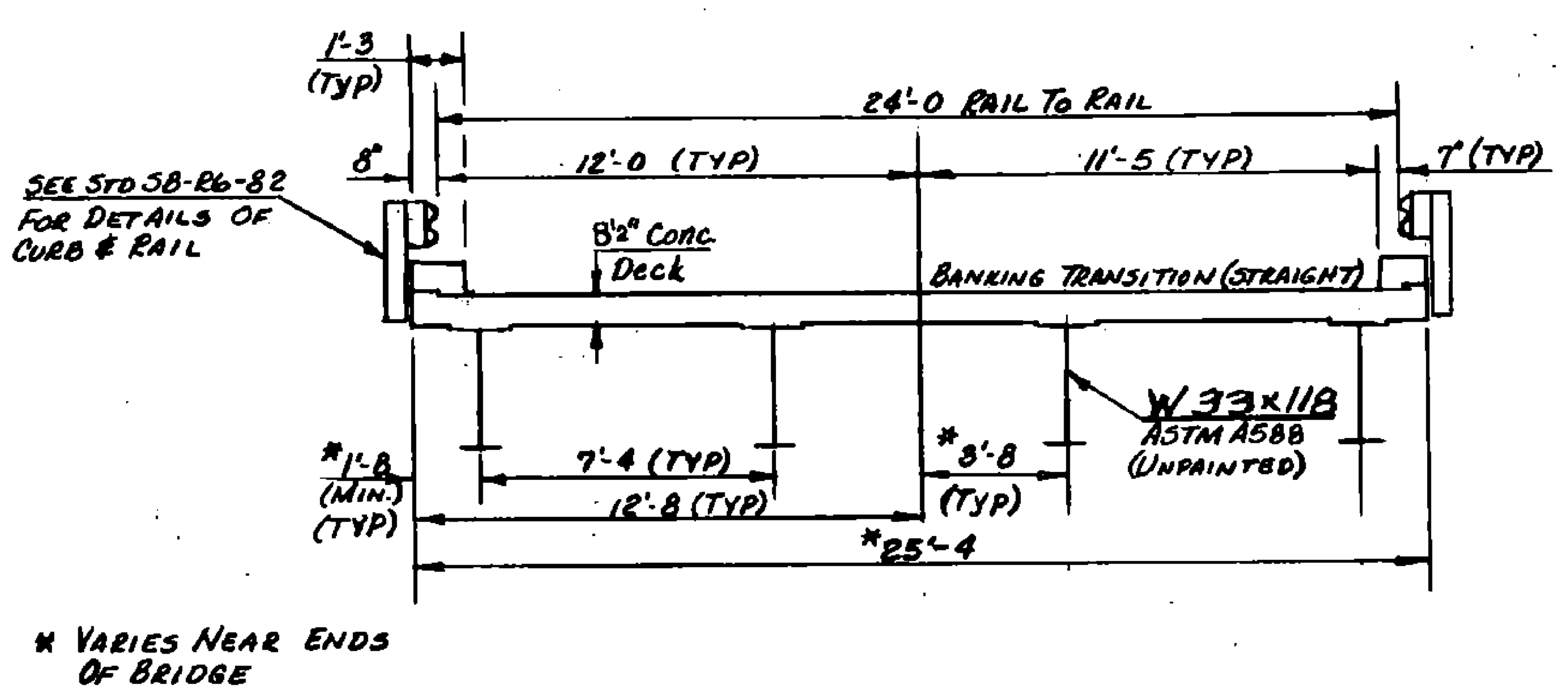
GENERAL NOTES

1. THIS PROJECT SHALL BE CONSTRUCTED UNDER THE VERMONT AGENCY OF TRANSPORTATION, STANDARD SPECIFICATION FOR CONSTRUCTION, DATED 1986, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 1983, OR THEIR LATEST REVISIONS.
2. TRAFFIC SHALL BE MAINTAINED WITH THE USE OF A "ONE-WAY TEMPORARY BRIDGE", ITEM 528.10.
3. NOTES ON STANDARD SCB-D1-75 THAT APPLY TO THIS PROJECT ARE NOTES # 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, AND 16.
4. ITEM 529.15, "REMOVAL OF STRUCTURE" SHALL INCLUDE REMOVAL OF ALL THE EXISTING SUPERSTRUCTURE AND ALL THE EXISTING ABUTMENTS.
5. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL ON-PROJECT SIGNS AND BARRICADES. COST OF ALL CONSTRUCTION SIGNS AND BARRICADES, AS REQUIRED BY THE ENGINEER, SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS.
6. FOR ADDITIONAL NOTES, SEE SHEET 4 OF 28.



LOCATION MAP

(TRACED FROM COUNTY MAP)

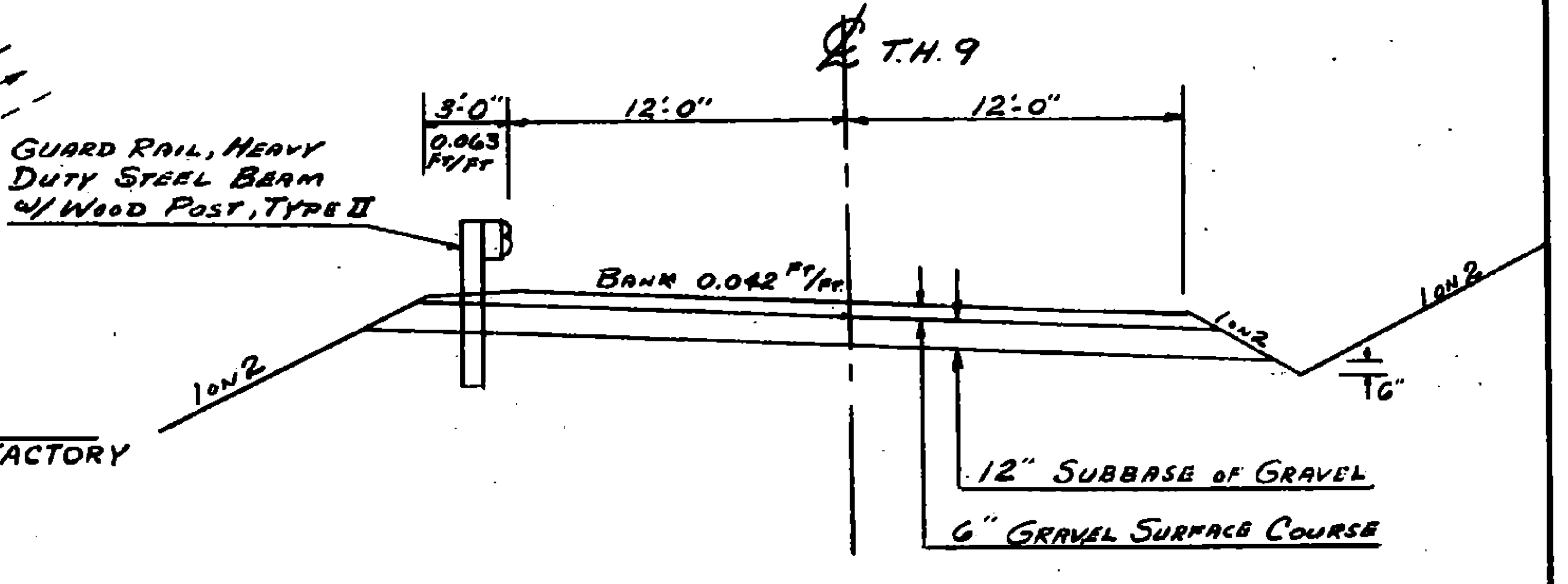


TYPICAL BRIDGE SECTION

SCALE 1" = 4'-0

LOAD RATING (TONS)

STRESS LEVELS	TRUCK H	TRUCK HS	TRUCK 3S2	TRUCK 6 AXLE	TRUCK 3A. STR.	TRUCK 4A. STR.	TRUCK 5A. SEMI
INVENTORY 0.55 Fy =	31	37					
POSTED 0.67 Fy =	47		67		49	51	60
OPERATING 0.75 Fy =			82	101			



TYPICAL ROADWAY SECTION

SCALE 1" = 5'-0"

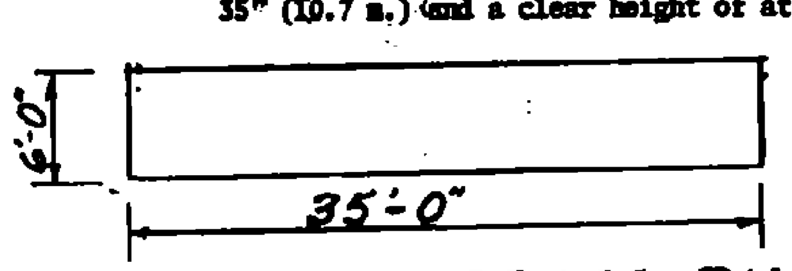
HYDRAULICS DATA

Drainage Area = 13.2 sq. mi. (34.2 sq. km.)
Q 2.33 = 900 cfs. (25 cms.); HW Elev. = 945.6
Q 10 = 1800 cfs. (50 cms.); HW Elev. = 946.5
Q 25 = 2500 cfs. (70 cms.); HW Elev. = 947.5
Q 50 = 3000 cfs. (85 cms.); HW Elev. = 948.0
Q 100 = 3500 cfs. (100 cms.); HW Elev. = 948.8

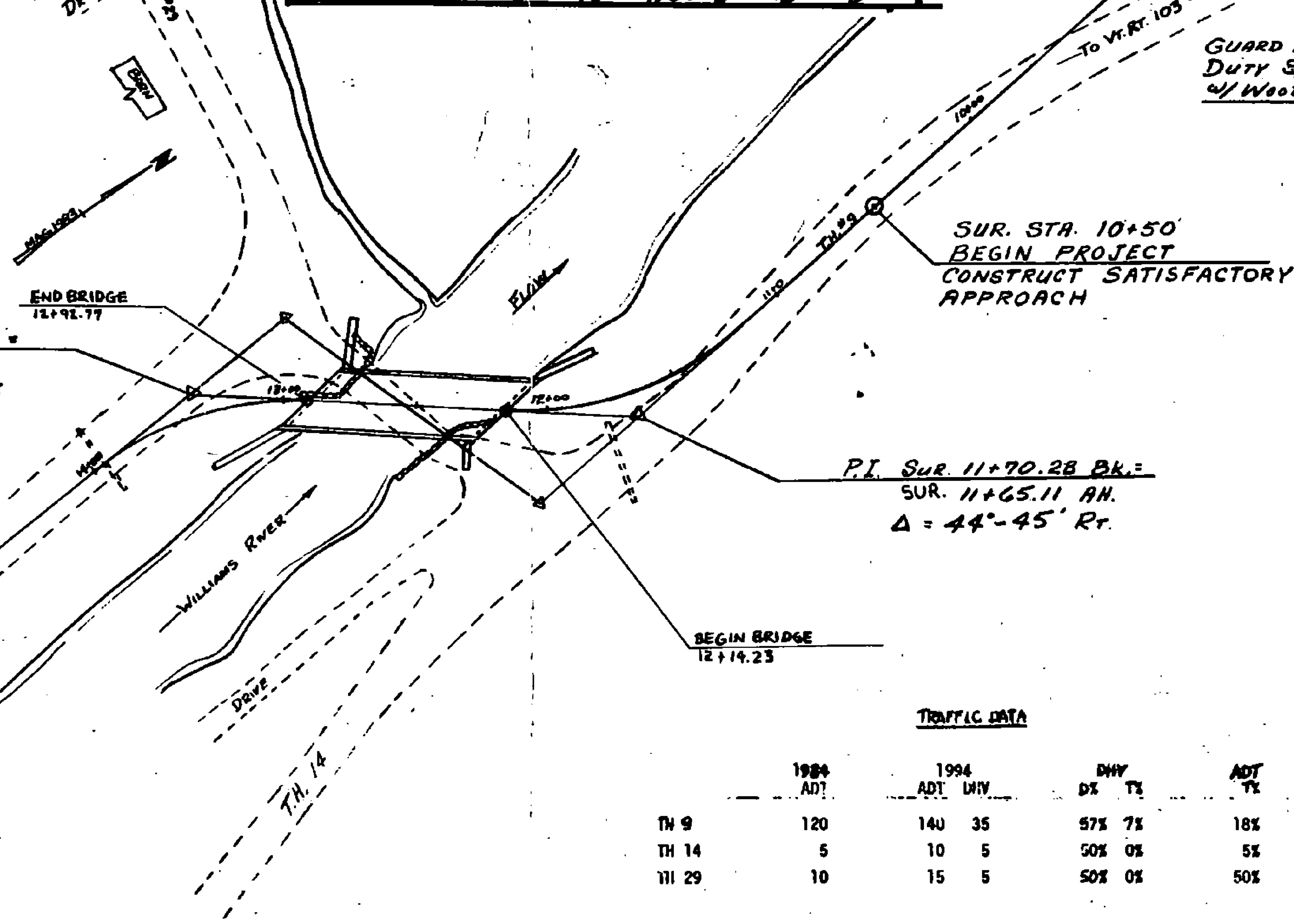
Outlet velocity @ Q 25 = 11.5 fps. (3.5 mps.)
Tailwater @ Q 25 = 5.3' (1.6m.)
Roadway overflow occurs at frequencies greater than Q 100.

TEMPORARY STRUCTURE DATA

Any temporary structure here should have a clear span of at least 35" (10.7 m.) and a clear height of at least 6' (1.8 m.).



TEMPORARY BRIDGE DIAGRAM NORMAL TO STREAM



CONVENTIONAL SIGNS

COUNTY LINE
TOWN LINE
LIMITS OF ACCESS
POINT OF ACCESS
FENCE LINE
STONE WALL
TRAVELED WAY
GUARD RAIL
RAILROAD
SURVEY LINE
CULVERT
POWER POLE
TELEPHONE POLE
TREES
CONTROL OF ACCESS
PROPERTY LINE
R.O.W. TAKING LINE
SLOPE RIGHTS — SR
TOP OF CUT
TOE OF SLOPE

DATUM	
VERTICAL	U.S.G.S.
HORIZONTAL	

TRAFFIC DATA

	1984 ADT	1994 ADT	1994 DHV	DHV D%	DHV T%	ADT T%
TH 9	120	140	35	57%	7%	18%
TH 14	5	10	5	50%	0%	5%
TH 29	10	15	5	50%	0%	50%

These plans are subject to such engineering changes as may be required by the Federal Highway Administration or the Director of Engineering and Construction.

Construction is to be carried on in accordance with these plans and the Standard Specifications for Construction dated *1986*, as approved by the Federal Highway Administration on *Nov. 21, 1985* for use on this project, including all subsequent revisions and such revised specifications and special provisions as are incorporated in these plans.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED [signature] DATE 24 Nov 86

DIRECTOR, DEPT. OF PLANNING & PRECONSTRUCTION

TITLE SHEET

T.H. 9, B67 OVER WILLIAMS RIVER

PROJECT	PROJECT NO.
CHESTER	BRZ 1442(10)

SHEET 1 OF 28 SHEETS

D-10

SJB. 7/21/81