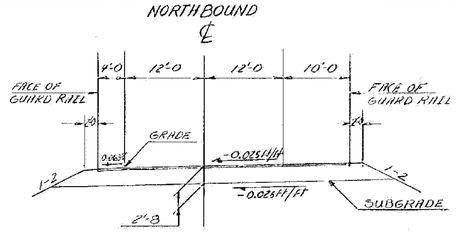
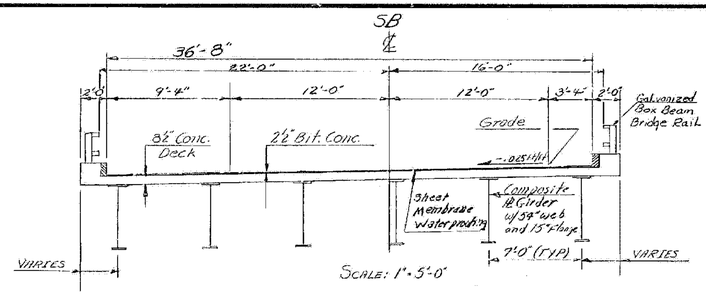


SCALE: 1"=10'-0

NEW HIGHWAY SECTION — BRIDGE APPROACHES



SCALE: 1"=5'-0"

SB BRIDGE TYPICAL SECTION

EXISTING STRUCTURE (None)

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

NEW STRUCTURE

STRUCTURE GEOMETRY:

1. STRUCTURE TYPE COMPOSITE PLATE GIRDER OVERALL LENGTH SB = 113.08' NB = 113.04'
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS SB = 110.00' NB = 110.00'
3. VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER NB = 16'-4", SB = 16'-5"
4. CLEAR SPAN LENGTH(S) NORMAL TO STREAM N/A
5. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM) N/A
6. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES? NO

HYDRAULIC DATA: N/A

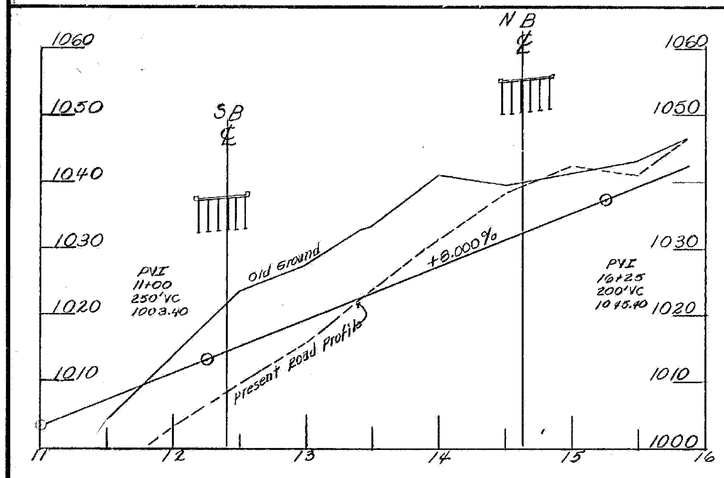
1. Q 2.33 _____ WATER ELEVATION _____ VELOCITY _____
   Q 10 _____ WATER ELEVATION _____ VELOCITY _____
   Q 25 _____ WATER ELEVATION _____ VELOCITY _____
   Q 50 _____ WATER ELEVATION _____ VELOCITY _____
   Q 100 _____ WATER ELEVATION _____ VELOCITY _____
2. DRAINAGE AREA _____ CHARACTER OF TERRAIN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

ALLOWABLE STRESSES:

1. DESIGN LIVE LOAD AASHTO H 15 S 25-44
2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL 2 TONS/FT² ON LEDGE N/A
3. ALLOWABLE LOAD FOR PILING N/A TYPE N/A ESTIMATED LENGTH N/A
4. ALLOWABLE STRESS FOR STRUCTURAL STEEL ASTM A 588 TENSION 27,000 PSI
5. ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 50 TENSION 24,000 PSI COMPRESSION 20,000 PSI
6. ALLOWABLE STRESS FOR CONCRETE CLASS A f'_c 3500 PSI f_c 1400 PSI
   CLASS B f'_c 3500 PSI f_c 1400 PSI

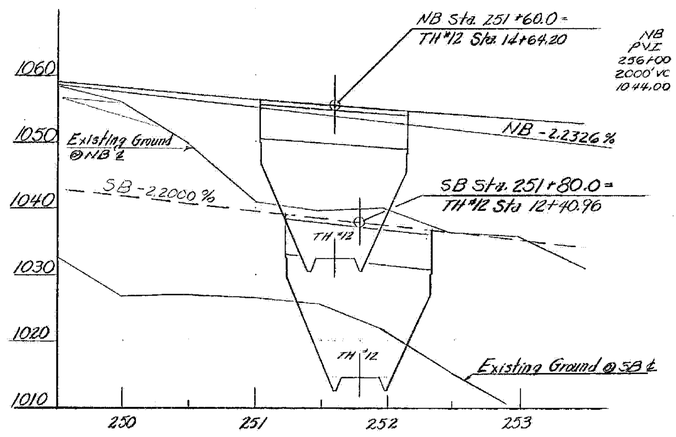
TRAFFIC MAINTENANCE:

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



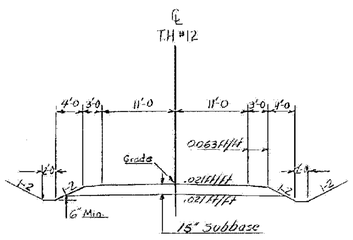
TOWN HIGHWAY #12 - PROFILE

Scale: 1"=50' (hor.)
1"=10' (Vert)



NB & SB PROFILE

Scale: 1"=50' (hor.)
1"=10' (Vert)

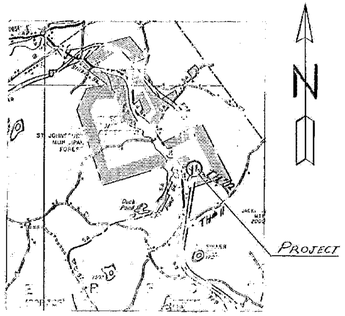


SCALE: 1"=10'-0

TOWN HIGHWAY SECTION NORMAL

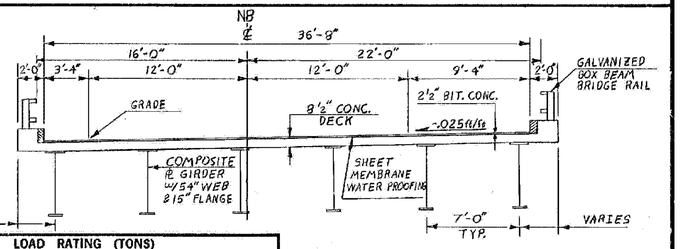
INDEX OF SHEETS ON SHEET BR502

GENERAL NOTES ON SHEET BR503



PROJECT LOCATION

Scale: 1"=1 mile



NB BRIDGE TYPICAL SECTION

SCALE: 1" = 5'-0"

LOAD RATING (TONS)

STRESS LEVELS	TRUCK						
	HS	H	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEMI
INVENTORY 0.55 Fy = 27.0	52	47					
POSTED 0.67 Fy = 33.5		74	93		77	78	87
OPERATING 0.75 Fy = 37.5			114	131			

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

RECOMMENDED FOR APPROVAL Arthur Gove CHIEF OF DESIGN 1-30-80 DATE

APPROVED BY A. J. Gove DIRECTOR OF ENGINEERING & CONSTRUCTION 1-30-80 DATE

REVISIONS

NO.	DESCRIPTION	BY & DATE

I-93 BRIDGES 3N&S
WATERFORD
IM MEMB(31)
SHEET 25 OF 48
FOR REFERENCE ONLY

STATE OF V
AGENCY OF TRAN

TOWN OF WATERFORD — Bridge No. B5
HIGHWAY NO. I93 NB & SB — Log Sta. — Surv. Sta. 251+70
I 93 N.B. & S.B. OVER T.H. #12
PRELIMINARY INFORMATION SHEET
Designed by Plumb — Drawn by Plumb
Checked by S. Farnsworth, G. ROGERS 6/80 date 1-24-80 — Bridge Design Supervisor F. W. Balkum date 1-30
PROJECT WATERFORD — PROJECT NO. I 93-1(3) 92
Bridge Sheet No. BR500 — Sheet 121 of 531

181 of 290

BR-2