

BRIDGE TYPICAL SECTION
SCALE: 1/4" = 1'-0"

EXISTING STRUCTURE

1. STRUCTURE TYPE	SINGLE SPAN T-BEAM BRIDGE	OVERALL LENGTH	34 FT	INVENTORY RATING	
2. SPAN LENGTH @ CENTER TO CENTER OF BEARINGS			34 FT		
3. CLEAR SPAN LENGTH @ NORMAL TO STREAM			34 FT		
4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	80 SQ FT	VERTICAL CLEARANCE ABOVE STREAMBED	8 FT		
5. WATER SURFACE ELEVATION @ 2.33	854.0	WATER SURFACE ELEVATION @ 0	854.0		
6. WATER SURFACE ELEVATION AT FLOOD OF RECORD	858.0	YEAR	1975	ESTIMATED DISCHARGE	
7. DOES ALL WATER PASS THROUGH EXISTING STRUCTURE	NO	IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR	0.75 EL 854.5		
8. ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF					
9. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL	UNKNOWN				
10. POSITION OF STRUCTURE	REMOVE				

NEW STRUCTURE

1. STRUCTURE TYPE	SINGLE SPAN CONCRETE SLAB BRIDGE	OVERALL LENGTH	44.0 FT		
2. SPAN LENGTH @ CENTER TO CENTER OF BEARINGS			44.0 FT		
3. VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER			8.0 FT		
4. CLEAR SPAN LENGTH @ NORMAL TO STREAM			44.0 FT		
5. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	80 SQ FT				
6. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES?	NO				

HYDRAULIC DATA

1. @ 2.33	850 CFS	WATER ELEVATION	854.7	VELOCITY	8.7 FPS
0 10	850 CFS	WATER ELEVATION	853.0	VELOCITY	6.5 FPS
0 20	850 CFS	WATER ELEVATION	854.0	VELOCITY	8.9 FPS
0 100	850 CFS	WATER ELEVATION	855.1	VELOCITY	6.3 FPS

2. DRAINAGE AREA: 84.80 AC CHARACTER OF TERRAIN: HILLY TO HILLSY

3. ARE THERE OBSTRUCTIONS TO A PIER IN THE STREAM? YES / NO

4. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? YES / NO

5. NATURE OF NATURAL STREAMBED: SMALL TO MEDIUM SIZED CORNERED BERRIES / CHANNEL

6. ESTIMATED SCOUR DEPTH: 1.0 FT COMMENT ON DRIFT: NONE

7. WILL ALL WATER PASS THROUGH NEW STRUCTURE? NO IF NOT, WHAT FREQUENCY AND ELEVATION WILL RELIEF OCCUR? 0.75 EL 854.5

8. ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF: CHANNELLED / ROADWAY OVERFLOW OCCURS @ 5.00 FT SOUTH OF BRIDGE

9. VERTICAL CLEARANCE ABOVE 0: WATER REACHES BOTTOM OF DECK @ 0.80'

10. ALLOWABLE WATER SURFACE ELEVATION: 854.0 LIMITED BY: AVERAGE BOTTOM OF LOW SIDE OF BRIDGE DECK

11. IS DESIGN STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? NO IF YES, DESCRIBE

12. ORDINARY LOW WATER: 850 CFS DEPTH: 1.0 FT ORDINARY HIGH WATER: 852 CFS DEPTH: 3.0 FT

13. AVERAGE DAILY FLOW: 80 CFS STREAMBANK OR CHANNEL PROTECTION REQUIRED: NONE FILL TYPE: III

14. DISTANCE TO EXISTING UPSTREAM STRUCTURE: 1.0 MI SPAN: 44.0 FT WATERWAY AREA OF FULL OPENING: 80.0 SF

15. DISTANCE TO EXISTING DOWNSTREAM STRUCTURE: 1.5 MI SPAN: 50 FT WATERWAY AREA OF FULL OPENING: 50.0 SF

ALLOWABLE STRESSES:

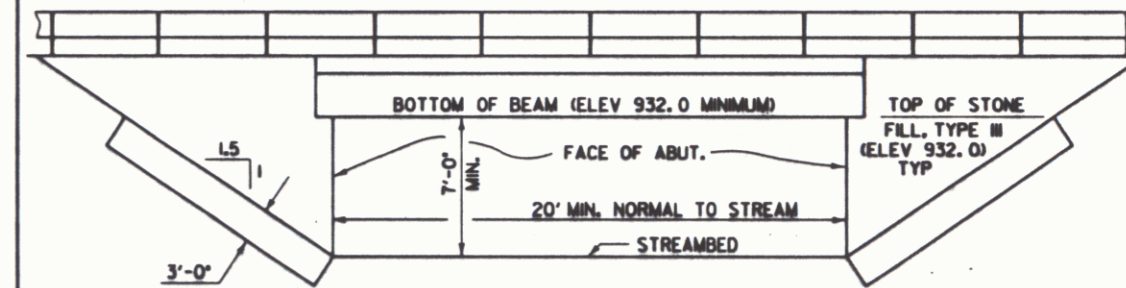
1. DESIGN LIVE LOAD AMBTD	NS 20				
2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL	4 KSF	ON LEDGE			
3. ALLOWABLE LOAD FOR P.I. ING.	8 / A	TYPE	ESTIMATED LENGTH		
4. ALLOWABLE STRESS FOR STRUCTURAL STEEL AMBTD N 222	8 / A	TENSION			
5. ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 60 TENSION	80 KSI	COMPRESSION			
6. ALLOWABLE STRESS FOR CONCRETE CLASS A 14	4000 PSI				
	CLASS B 14				

TRAFFIC MAINTENANCE:

1. IS TRAFFIC TO BE MAINTAINED?	YES	IF YES, ON EXISTING STRUCTURE	NO	OR ON TEMPORARY BRIDGE	YES **
2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY	TRUCK	TRAFFIC CONTROL SIGNALS REQUIRED			
MINIMUM CLEAR SPAN	80 FT	MINIMUM CLEAR HEIGHT	10 FT	MINIMUM WATERWAY AREA	80 SQ FT
ARE SIDEWALKS REQUIRED?	8 / A	IF SO, ON WHAT SIDE?			

** SUMMERTIME USAGE ONLY

ADDITIONAL DESIGN CONSIDERATIONS



TEMPORARY BRIDGE ELEVATION
N T S

LOAD RATING (TONS)		STATE OF VERMONT AGENCY OF TRANSPORTATION	
STRESS LEVELS	H NS 352 6 AILE 3A STR 4A STR 5A SEM	Town Of	ROXBURY
INVENTORY		Bridge No.	80
POSTED		Log Sta.	80+75
OPERATING		Highway No.	VT 12A
		Bury. Sta.	80+75
REVISIONS		VT 12A OVER THIRD BRANCH WHITE RIVER	
NO.	DESCRIPTION	BY & DATE	
		PRELIMINARY INFORMATION	
		Designed By C. MEUNIER	
		Drawn By G. BOY	
		ROXBURY BRS 0187(3)S	
		R.O.W. SHEET 6 OF 11 SHEETS	

APR 21 1997