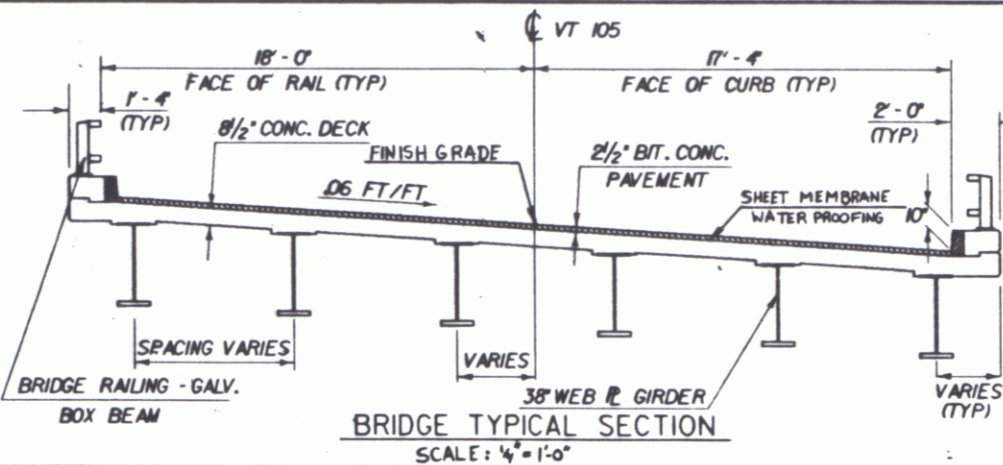


NEW HIGHWAY SECTION - BRIDGE APPROACHES



EXISTING STRUCTURE

1. STRUCTURE TYPE 3 SPAN CONCRETE T BEAM OVERALL LENGTH 106 FT INVENTORY RATING H5
 2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS 28-48-27 96 FT
 3. CLEAR SPAN LENGTH(S) NORMAL TO STREAM 96 FT
 4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM) _____ VERTICAL CLEARANCE ABOVE STREAMBED _____
 5. WATER SURFACE ELEVATION @ 2.33 _____ WATER SURFACE ELEVATION @ 0 _____
 6. WATER SURFACE ELEVATION AT FLOOD OF RECORD _____ YEAR _____ ESTIMATED DISCHARGE _____
 7. DOES ALL WATER PASS THROUGH EXISTING STRUCTURE? NO IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR? _____
 8. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL _____
 9. DISPOSITION OF STRUCTURE REMOVAL OF STRUCTURE

NEW STRUCTURE

STRUCTURE GEOMETRY
 1. STRUCTURE TYPE COMPOSITE PLATE GIRDER OVERALL LENGTH 104.72 (ALONG HORIZONTAL CURVE)
 2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS 80.06 FT ALONG MAJOR CHORD
 3. VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER 11 FT
 4. CLEAR SPAN LENGTH(S) NORMAL TO STREAM 74 FT
 5. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM) _____
 6. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES? NO

HYDRAULIC DATA

1. @ 2.33	800 CFS	WATER ELEVATION	1155.1	VELOCITY	
2. @ 2.33	1500 CFS	WATER ELEVATION	1156.8	VELOCITY	
3. @ 2.33	2000 CFS	WATER ELEVATION	1157.9	VELOCITY	
4. @ 2.33	2650 CFS	WATER ELEVATION	1158.8	VELOCITY	4.9 FPS
5. @ 2.33	3200 CFS	WATER ELEVATION	1159.5	VELOCITY	

2. DRAINAGE AREA 55.4 SQ. MI. 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 _____
 7. WILL ALL WATER PASS THROUGH NEW STRUCTURE? NO IF NOT, WHAT FREQUENCY AND ELEVATION WILL RELIEF OCCUR? 2.33, ELEV 1159
 8. VERTICAL CLEARANCE ABOVE 0 _____
 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 STONE FILL, TYPE III
 13. DISTANCE TO EXISTING UPSTREAM STRUCTURE _____ SPAN _____ WATERWAY AREA OF FULL OPENING _____
 14. DISTANCE TO EXISTING DOWNSTREAM STRUCTURE _____ SPAN _____ WATERWAY AREA OF FULL OPENING _____

ALLOWABLE STRESSES

1. DESIGN LIVE LOAD AASHTO H5 25-44 ON LEDGE N/A
 2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL _____ TYPE _____ ESTIMATED LENGTH _____
 3. ALLOWABLE LOAD FOR FILLING _____
 4. ALLOWABLE STRESS FOR STRUCTURAL STEEL AASHTO M 222 _____ TENSION _____
 5. ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 60 TENSION _____
 6. ALLOWABLE STRESS FOR CONCRETE CLASS A 46 _____ CLASS B 44 _____

TRAFFIC MAINTENANCE

1. IS TRAFFIC TO BE MAINTAINED? YES IF YES, ON EXISTING STRUCTURE NO OR ON TEMPORARY BRIDGE YES
 2. TEMPORARY BRIDGE REQUIREMENTS OR TWO WAY _____ TRAFFIC CONTROL SIGNALS REQUIRED NO
 MINIMUM CLEAR SPAN 60 FT MINIMUM CLEAR HEIGHT 8.5 NO LOWER THAN _____ MINIMUM WATERWAY AREA ARE SIDEWALKS REQUIRED? NO ELEV. 1157.0

MUST SPAN THE NATURAL CHANNEL A MINIMUM OF 60 FT PERPENDICULAR TO THE STREAM FLOW. THE BEAMS CAN BE NO LOWER THAN ELEVATION 1157.0

LOAD RATING (TONS)

STRESS LEVELS	TRUCK					
	H	H5	262	18 AXLE SA	STR. I.A.	STR. I.S.A. SEM
INVENTORY						
D. 95 P ₁₀						
POSTED						
D. 67 P ₁₀						
OPERATING						
D. 75 P ₁₀						

RECOMMENDED FOR APPROVAL _____ STRUCTURES ENGINEER _____ DATE _____
 RECOMMENDED FOR APPROVAL _____ CHIEF OF DESIGN _____ DATE _____
 APPROVED BY _____ CHIEF ENGINEER _____ DATE _____

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of CHARLESTON Bridge No. 81
 Highway No. VT 105 Log Sta. 434+04
 Surv. Sta. 434+00
VT 105 OVER THE CLYDE RIVER
 PRELIMINARY INFORMATION
 Designed By C. MEUNIER Drawn By R. WHITCOMB

CHARLESTON
 BR 034-3(15)
 R.O.W. SHEET 5 OF 9 SHEETS

MAR 18 1996