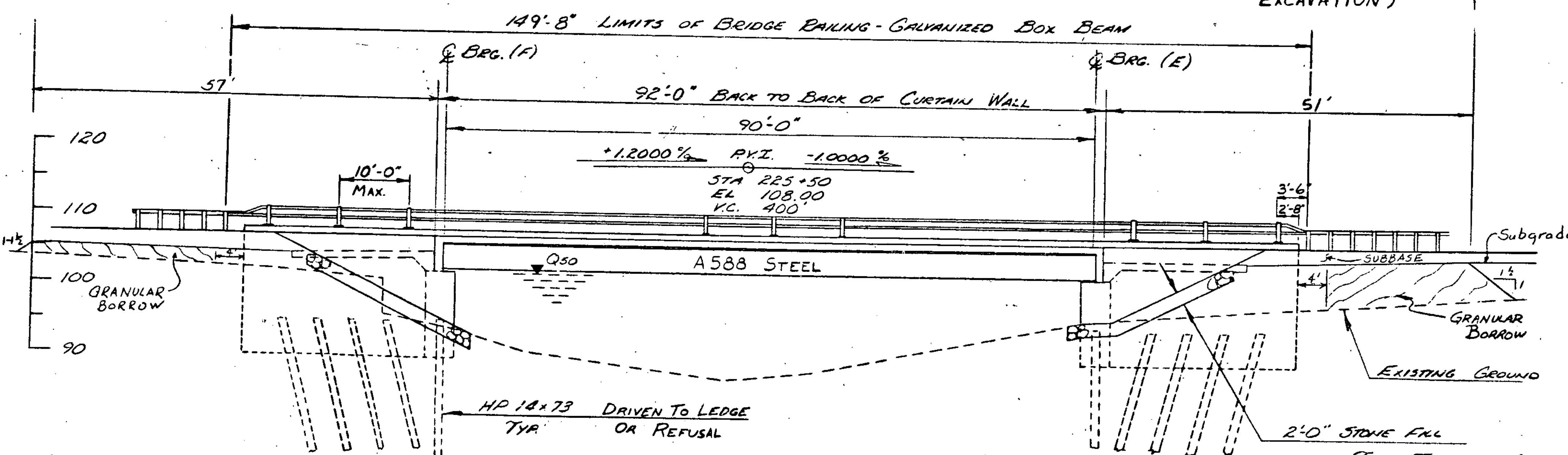


PLAN  
SCALE: 1"=10'

STA. 224+50  
BEGIN BRIDGE QUANTITY  
(STONE FILL TYPE II & III &  
UNCLASSIFIED CHANNEL  
EXCAVATION)

STA. 226+50  
END BRIDGE QUANTITY  
(STONE FILL TYPE II & III  
& UNCLASSIFIED CHANNEL  
EXCAVATION)



ELEVATION (AT FASCIA)  
SCALE: 1"=10'

EXISTING STRUCTURE	
1. STRUCTURE TYPE	TRUSS STEEL TRUSS
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	90'-0"
3. CLEAR SPAN LENGTH(S) NORMAL TO STREAM	82'-0"
4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	1022 SQ. FT.
5. WATER SURFACE ELEVATION @ 0.233	99.4
6. WATER SURFACE ELEVATION AT FLOOD OF RECORD	101.2
7. DOES ALL WATER PASS THROUGH EXISTING STRUCTURE? IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR?	NO
8. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL	CONCRETE
9. DISPOSITION OF STRUCTURE	REMOVE (PROPERTY OF CONTRACTOR)

NEW STRUCTURE	
1. STRUCTURE TYPE	SINGLE SPAN STEEL BEAM
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	92'-0"
3. VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER	3 FT. TO OHW
4. CLEAR SPAN LENGTH(S) NORMAL TO STREAM	83'
5. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	1088 SQ. FT.
6. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES?	NO

HYDRAULIC DATA:					
1. Q 2.33	2000 CFS	WATER ELEVATION	99.4	VELOCITY	2.3
Q 10	3650 CFS	WATER ELEVATION	101.0	VELOCITY	3.6
Q 25	5000 CFS	WATER ELEVATION	101.6	VELOCITY	4.7
Q 50	5900 CFS	WATER ELEVATION	101.9	VELOCITY	5.3
Q 100	7200 CFS	WATER ELEVATION	102.0	VELOCITY	6.7
2. DRAINAGE AREA	58.7 SQ. MI.	CHARACTER OF TERRAIN	ROLLING TO HILLY		
3. ARE THERE OBJECTIONS TO A PIER IN THE STREAM?	YES				
4. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY?	NO	IS ORDINARY RISE RAPID?	NO		
5. NATURE OF NATURAL STREAMBED	SILT				
6. ESTIMATED SCOUR DEPTH	2'-2"	COMMENT ON: DRIFT	MOD.	ICE	HEAVY
7. WILL ALL WATER PASS THROUGH NEW STRUCTURE? IF NOT, WHAT FREQUENCY AND ELEVATION WILL RELIEF OCCUR?	YES				SEVERAL TIMES Q100
8. ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF	UNLIMITED				
9. ALLOWABLE WATER SURFACE ELEVATION	102.2	LIMITED BY	LOW STEEL		
10. IS DESIGN STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? IF YES, DESCRIBE	NO				LONG CHANNEL
11. AVERAGE DAILY LOW FLOW	2 CFS	DEPTH	92.2	AVERAGE DAILY HIGH FLOW	170 CFS
12. STREAMBANK OR CHANNEL PROTECTION REQUIRED	STONE FILL	DEPTH	92.4		
13. DISTANCE TO EXISTING UPSTREAM STRUCTURE	500'	SPAN	92'	WATERWAY AREA OF FULL OPENING	0
14. DISTANCE TO EXISTING DOWNSTREAM STRUCTURE	SPAN			WATERWAY AREA OF FULL OPENING	0

ALLOWABLE STRESSES:	
1. DESIGN LIVE LOAD AASHTO	H5 25-44
2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL	N/A
3. ALLOWABLE LOAD FOR PILING	16 TON
4. ALLOWABLE STRESS FOR STRUCTURAL STEEL ASTM A	588 TENSION
5. ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 60 TENSION	24,000 PSI
6. ALLOWABLE STRESS FOR CONCRETE CLASS A	3500 PSI
	CLASS B

TRAFFIC MAINTENANCE:	
1. IS TRAFFIC TO BE MAINTAINED?	NO
2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY	N/A
MINIMUM CLEAR SPAN	N/A
MINIMUM CLEAR HEIGHT	N/A
ARE SIDEWALKS REQUIRED?	N/A
ESTIMATED PILE LENGTHS:	
Abutment #1	- 80 FT
Abutment #2	- 80 FT

ADDITIONAL DESIGN CONSIDERATIONS

LIST OF STANDARDS		INDEX OF SHEETS	
SCB-D1-75	7-14-81R	BR 100	PRELIMINARY INFORMATION
SCB-D4-76	1-8-76A	BR 101	BRIDGE QUANTITY SHEET
SCB-D6-73	1-3-79R	BR 102	BORING SHEET
SCB-D7-71	12-15-76R	BR 103	BORING SHEET
SB-R4A-82	9-7-83R	BR 104	TYPICAL SECTION / SLAB REINF.
SB-R4B-82	9-7-83R	BR 105	FRAMING PLAN / GIRDER DETAILS
		BR 106	BEARING DEVICE DETAILS
		BR 107	ABUTMENT 1/2 DETAILS
		BR 108	CURTAIN WALL & TIE BEAM DET.
		BR 109	COFFERDAM DETAILS & GENERAL NOTES
		BR 110	REINFORCING STEEL SCHEDULE

LOAD RATING (TONS)	
STRESS LEVELS	TRUCK
	H HS 352 5 AXLE 3A STR 4A STR 5A SEMI
INVENTORY	41 47
POSTED	65 74 87 63 69 70
OPERATING	106 126
0.55 Fy =	
0.67 Fy =	
0.75 Fy =	

REVISIONS	
NO.	DESCRIPTION

**STATE OF VERMONT**  
**AGENCY OF TRANSPORTATION**

TOWN OF: HIGHGATE Bridge No. 132  
 Highway No. U.S. RTE. 7 Log Sta. 225+52.0  
 U.S. RTE. 7 OVER ROCK RIVER Surv. Sta. 225+53.0

DESIGNED BY: G.V. SPILAK  
 CHECKED BY: A. ELWOOD  
 PROJECT: HIGHGATE

DATE: 10/28/82  
 DATE: 10/28/82  
 DATE: 10/28/82

PROJECT NO. BR5 0285 (115)  
 Bridge Sheet No. 39 (10) Sheet 13 of 64