

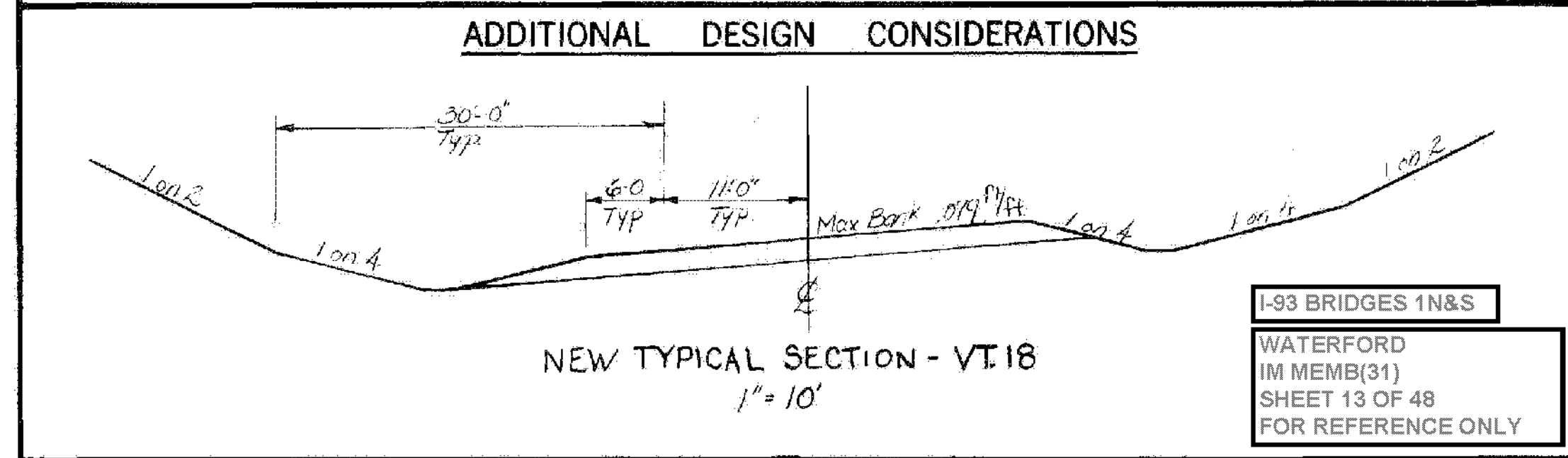
EXISTING STRUCTURE	
1. STRUCTURE TYPE	OVERALL LENGTH
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	INVENTORY RATING
3. CLEAR SPAN LENGTH(S) NORMAL TO STREAM	VERTICAL CLEARANCE ABOVE STREAMBED
4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	WATER SURFACE ELEVATION @ Q
5. WATER SURFACE ELEVATION @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

NEW STRUCTURE	
STRUCTURE GEOMETRY:	OVERALL LENGTH
1. STRUCTURE TYPE	204' 11" NB, 170' 11" SB
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	202' NB, 167' SB
3. VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER	14'-3" MIN. NB, 16'-6" MIN. SB
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:		
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?	IS ORDINARY RISE RAPID?	
4. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY?		
5. NATURE OF NATURAL STREAMBED	COMMENT ON: DRIFT	ICE
6. ESTIMATED SCOUR DEPTH		
7. WILL ALL WATER PASS THROUGH NEW STRUCTURE?	IF NOT, WHAT FREQUENCY AND ELEVATION WILL RELIEF OCCUR?	
8. ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF		
9. VERTICAL CLEARANCE ABOVE Q		
10. ALLOWABLE WATER SURFACE ELEVATION	LIMITED BY	
11. IS DESIGN STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS?	IF YES, DESCRIBE	
12. AVERAGE DAILY LOW FLOW DEPTH	AVERAGE DAILY HIGH FLOW	DEPTH
13. STREAMBANK OR CHANNEL PROTECTION REQUIRED		
14. 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	HS25	
2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL	4 KSF	ON LEDGE N.A.
3. ALLOWABLE LOAD FOR PILING	N.A.	ESTIMATED LENGTH
4. ALLOWABLE STRESS FOR STRUCTURAL STEEL ASTM A 36	TENSION 27000 PSI	
5. ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 60	TENSION 24000 PSI	COMPRESSION 20000 PSI
6. ALLOWABLE STRESS FOR CONCRETE CLASS A 1 1/2	3500	1400 PSI
	CLASS B 1/2	3200 PSI

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



NORTHBOUND LOAD RATING (TONS)					SOUTHBOUND LOAD RATING (TONS)				
STRESS LEVELS	H	HS	3S2	TRUCK	STRESS LEVELS	H	HS	3S2	TRUCK
INVENTORY				6 AXLE	INVENTORY				6 AXLE
0.55 Fy =				3A. STR.	0.55 Fy =				3A. STR.
POSTED				4A. STR.	POSTED				4A. STR.
0.67 Fy =				5A. SEMI	0.67 Fy =				5A. SEMI
OPERATING					OPERATING				
0.75 Fy =					0.75 Fy =				

RECOMMENDED FOR APPROVAL	<i>W.M. Smith</i>	1-30-80	DATE
RECOMMENDED FOR APPROVAL	<i>Arthur J. Goss</i>	1-30-80	DATE
APPROVED BY	<i>S. J. Gagne</i>	1-30-80	DATE
STRUCTURES ENGINEER		CHIEF OF DESIGN	
DIRECTOR OF ENGINEERING & CONSTRUCTION			

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF WATERFORD
HIGHWAY NO. I 93
I 93 N.B. & S.B. OVER VT. RTE. 18
PRELIMINARY INFORMATION

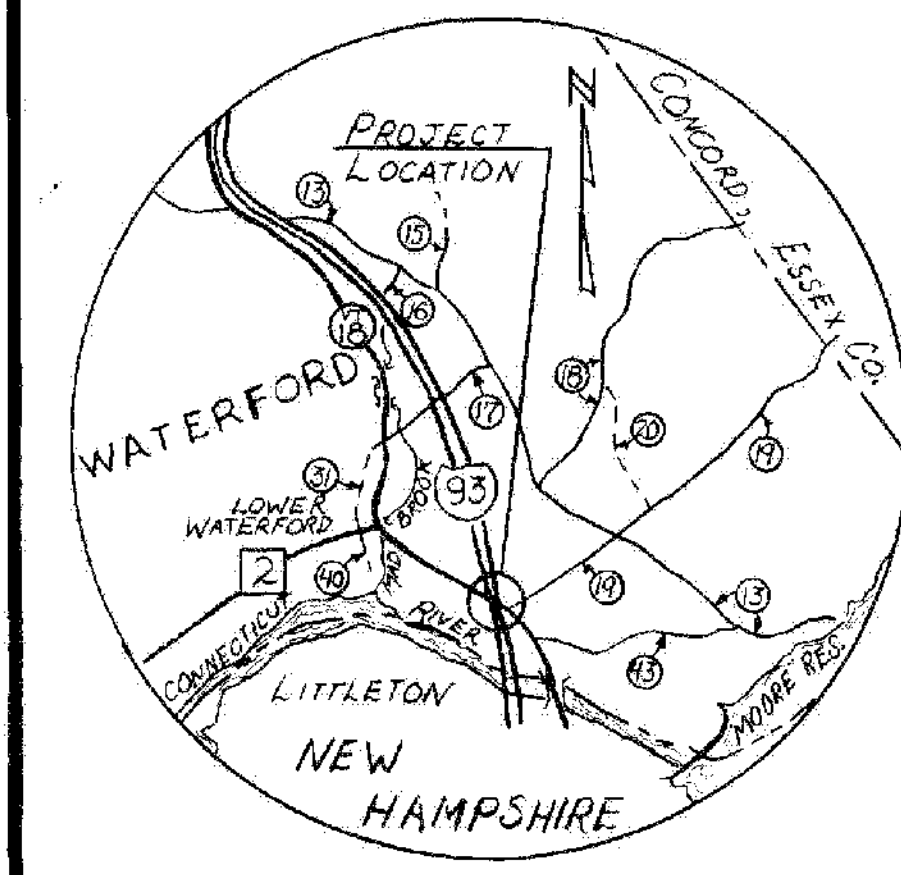
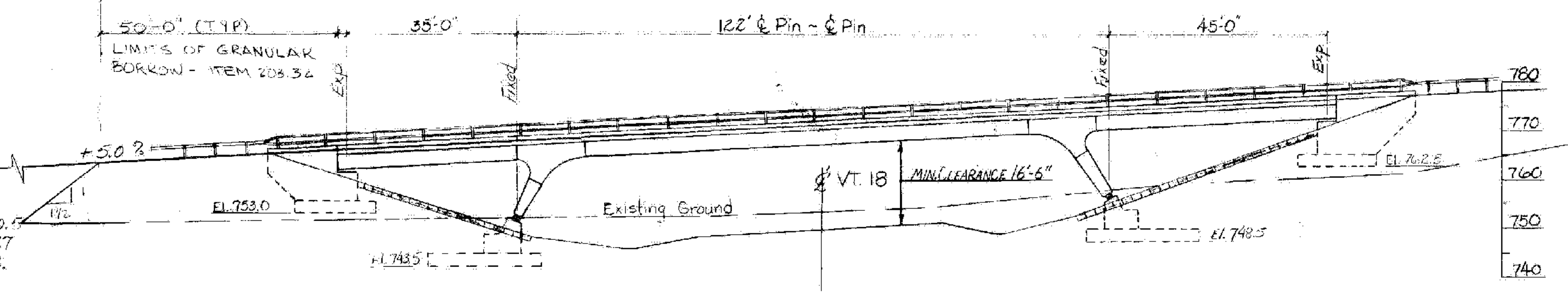
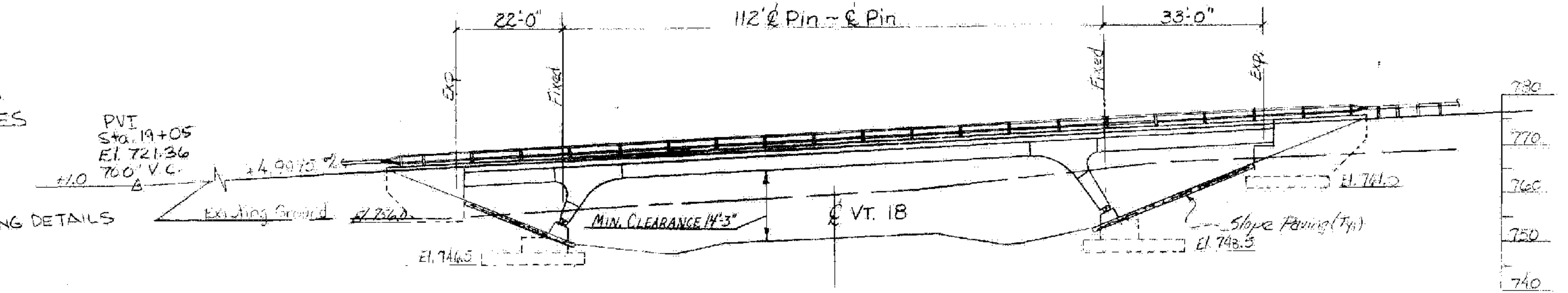
Designed by G. Spilak
Checked by AWE date 1-31-80
PROJECT CONTRACT #1 WATERFORD
Bridge Sheet No. BR 100

Drawn by R. Whitcomb
Bridge Design Supervisor
R. S. HART date 1/30
PROJECT NO. I 93-1(3)
Sheet 130 of 489

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BR 131 REINFORCING SCHEDULE - PIERS 1, 2, 3, & 4, DECK SLABS & APPROACH SLABS.
ROADWAY CROSS SECTIONS



PROJECT LOCATION
(TRACED FROM COUNTY MAP)
SCALE: 1" = 1 MILE