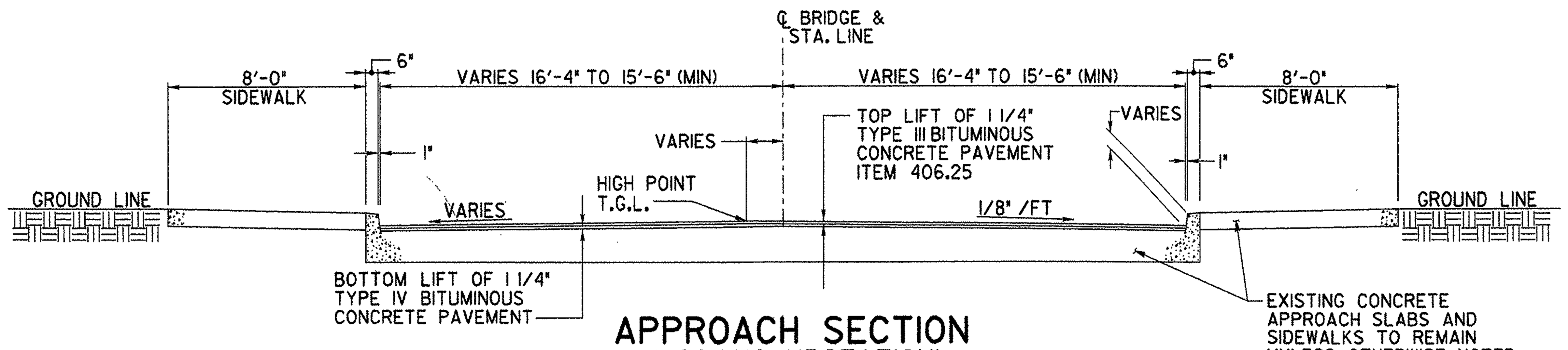
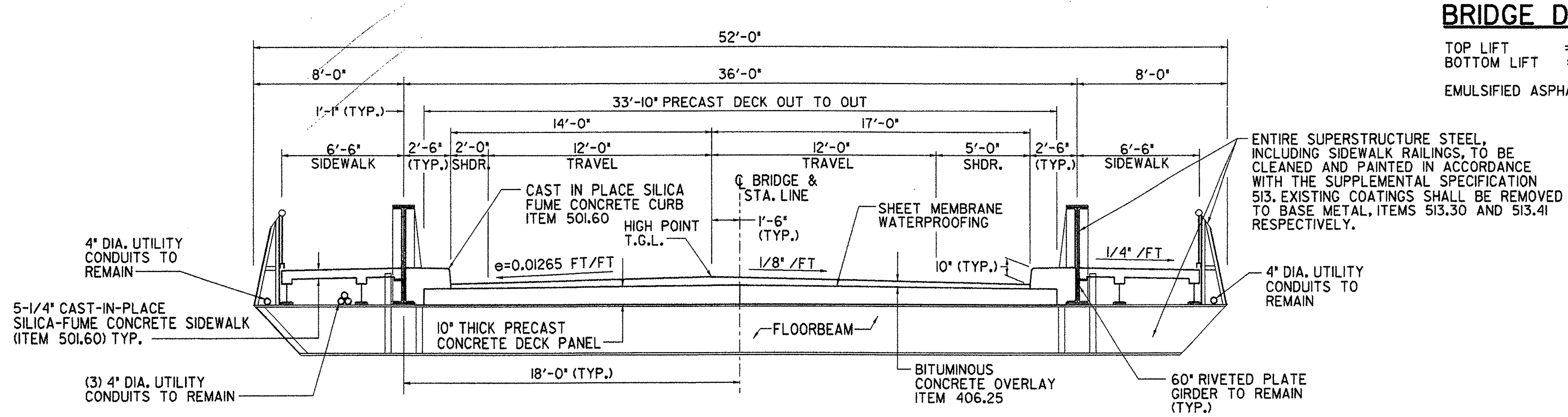


APPROACH SECTION
(LOOKING UPSTATION)
SCALE: 1/4" = 1'-0"



TYPICAL SECTION
(LOOKING UPSTATION)
SCALE: 1/4" = 1'-0"

EXISTING STRUCTURE

1. STRUCTURE TYPE RIVETED THRU PLATE GIRDER WITH CONCRETE DECK ON CONCRETE ABUTMENTS
   OVERALL LENGTH 53'-1" INVENTORY RATING
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS 48'-0"
3. CLEAR SPAN LENGTH(S) NORMAL TO STREAM 45' - 8"
4. DISPOSITION OF STRUCTURE REMOVE EXISTING CONCRETE DECK AND SIDEWALKS. EXISTING STEEL GIRDERS AND FLOORBEAMS TO BE REHABILITATED, AND THE EXISTING ABUTMENTS ARE TO REMAIN

NEW STRUCTURE

STRUCTURE GEOMETRY:

1. STRUCTURE TYPE NEW CONCRETE DECK AND SIDEWALKS ON REHABILITATED EXISTING STEEL GIRDERS AND FLOORBEAMS
   OVERALL LENGTH 53'-1"
2. SPAN LENGHT(S) CENTER TO CENTER OF BEARINGS 48'-0"
3. CLEAR SPAN LENGTH(S) NORMAL TO STREAM 45'-8"
4. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES? CONDUITS ALONG THE UPSTREAM/DOWNSTREAM FASCIAS AND BETWEEN THE UPSTREAM SIDEWALK STRINGERS ARE TO REMAIN IN PLACE.

HYDRAULIC DATA:
HYDRAULIC DATA OF NEW STRUCTURE IS SIMILAR TO THE EXISTING STRUCTURE

ALLOWABLE STRESSES:

1. DESIGN LIVE LOAD AASHTO HS-20-44
2. ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 60 TENSION 24,000 PSI COMPRESSION 20,000 PSI
3. ALLOWABLE STRESS FOR PRECAST CONCRETE fc' 6,000 PSI fc 2,400 PSI
   SILICA FUME fc' 5,000 PSI fc 2,000 PSI

TRAFFIC MAINTENANCE:

1. TRAFFIC TO BE MAINTAINED NORTHBOUND - ONE LANE BRIDGE DURING STAGED CONSTRUCTION, DETOUR ROUTE DURING TEMPORARY CLOSURES AND STAGE 3
   SOUTHBOUND - DETOUR ROUTE

STRENGTH RF= $\frac{ØM_n - 1.3M_{DL}}{A \times M_{LL+I}}$

*SERVICEABILITY RF = $B\left[\frac{.95F_y S_{LL+I} - M_{DL}\frac{S_{LL+I}}{S_{DL}} - M_{SDL}\frac{S_{LL+I}}{S_{SDL}}}{1.67 M_{LL+I}}\right]$

LOAD FACTOR LOAD RATING (TONS)
CONTROLLING MEMBER- 60" PLATE GIRDERS

LOADING LEVELS (LOAD FACTORS)	TRUCK						
	H	HS	3S2	6 AXLE	3ASTR	4ASTR	5A SEMI
INVENTORY A=2.17; B=1.00	24	31					
POSTED A=1.55; B=1.40	34	43	56		35	37	48
OPERATING A=1.30; B=1.67		52	67	76	42	44	

APPROACH ROADWAY SECTIONS

1 1/4" BITUMINOUS CONCRETE PAVEMENT (TYPE III)
1 1/4" BITUMINOUS CONCRETE PAVEMENT (TYPE III)

BRIDGE DECK/APPROACH SLAB PAVEMENT

TOP LIFT = 1 1/4" TYPE III
BOTTOM LIFT = 1 1/4" TYPE IV

EMULSIFIED ASPHALT BETWEEN LIFTS

NOTES:

1. FOR EXISTING PLAN AND ELEVATION SEE DWG. PE-1
2. FOR FRAMING AND DECK PLAN SEE DWG. FP-1
3. FOR PAVEMENT MARKINGS PLACEMENT DETAILS SEE DWG. SP-1

PROJECT NO. THI-9914 BHF 1000 (17)S

Greenman-Pedersen
CONSULTING ENGINEERS
GPI
55 Monument Ave.
Bennington, VT. 05201

BENNINGTON BRIDGE #10 (U.S. ROUTE 7)
OVER THE WALLOOMSAC RIVER

PRELIMINARY
INFORMATION SHEET

DRAWING NO.	SCALE:	DATE:	SHEET NO.
PI-1	AS SHOWN	DEC ., 1999	2 OF 20

IN CHARGE OF J. STEVENS
DESIGNED BY M. BORGEL
DRAFTED BY K. COLE
CHECKED BY J. RIZZO

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