

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 788 (C.H. 24/C.H. 16)	03-00075-00-BR, WASH. 03-00082-00-BR, CLIN.	WASHINGTON CLINTON	22	11

BENCHMARK: TBM #1; CHISELED SQUARE, TOP OF EAST HUB GUARD, SOUTH END OF BRIDGE EL. 441.40

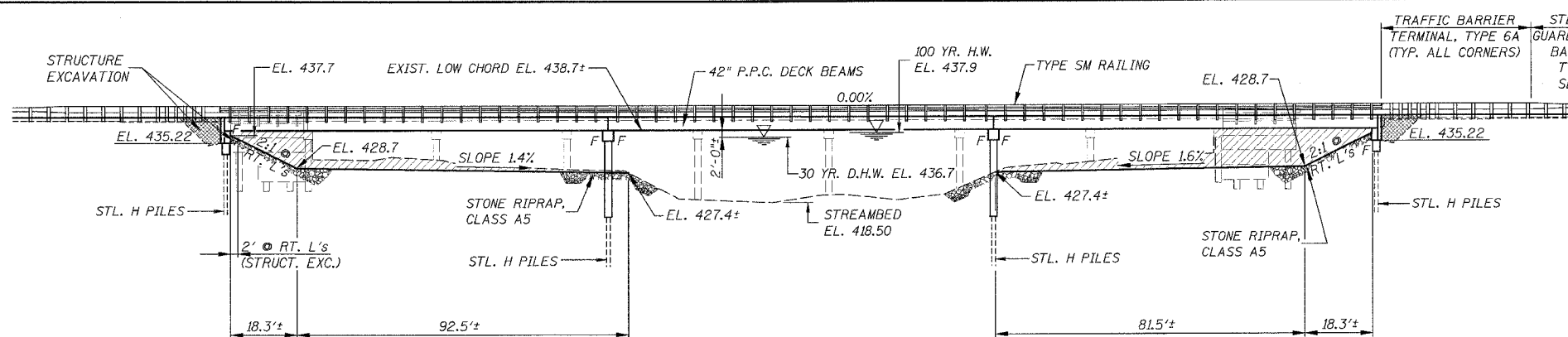
EXISTING STRUCTURE: S.N. 095-3000

THE EXISTING STRUCTURE IS A SEVEN SPAN PRECAST CHANNEL BEAM BRIDGE WITH 36" SPANS, TOTALING 252'-11" BK. TO BK. ABUTS. AND 26"3" OUT TO OUT. SUBSTRUCTURE CONSISTS OF PRECAST CONCRETE VERTICAL ABUTMENTS ON METAL SHELL PILES AND PILE BENT PIERS ON PRECAST CONCRETE PILES.

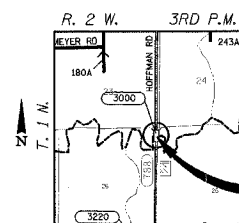
THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING STRUCTURE IN ACCORDANCE WITH SECTION 501 OF THE STANDARD SPECIFICATIONS.

SALVAGE:

GAGING STATION TO BE SALVAGED AND TEMPORARILY RELOCATED ON R.O.W. AS DIRECTED BY THE ENGINEER. THE COST OF SALVAGING, RELOCATION AND STORING SHALL BE INCLUDED IN THE COST OF "REMOVAL OF EXISTING STRUCTURES".

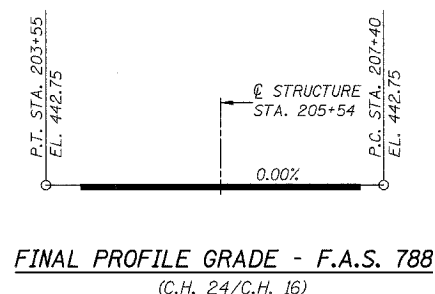


ELEVATION



STRUCTURE LOCATION

LOCATION SKETCH



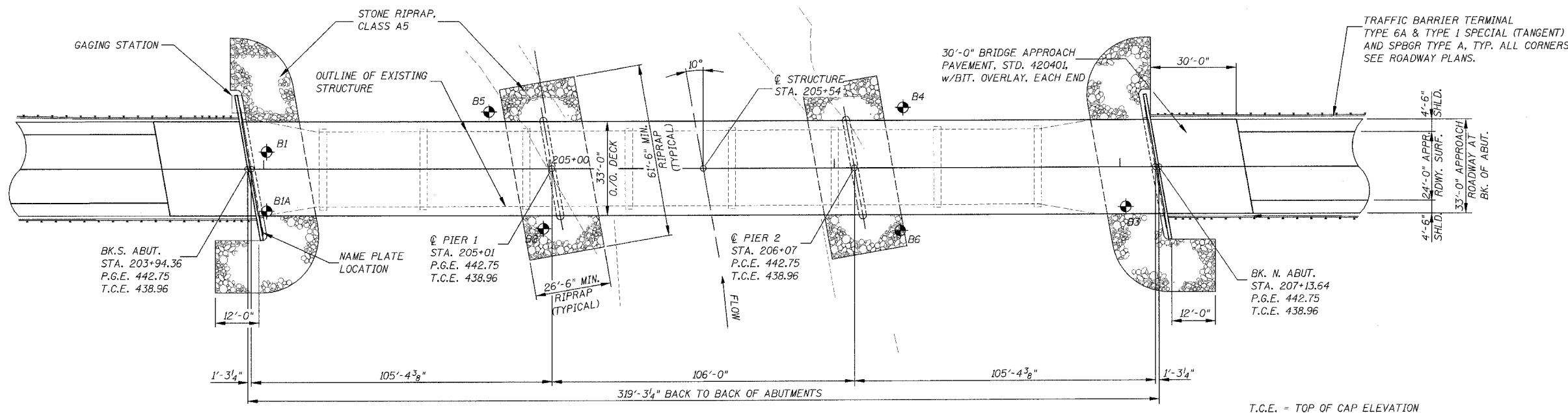
FINAL PROFILE GRADE - F.A.S. 788 (C.H. 24/C.H. 16)

INDEX OF BRIDGE SHEETS

11. GENERAL PLAN & ELEVATION
12. GENERAL NOTES, DETAILS & TOTAL BILL OF MATERIAL
13. SUPERSTRUCTURE DETAILS
14. 42"x36" P.P.C. DECK BEAM DETAILS
15. TYPE SM STEEL BRIDGE RAIL SIDE MOUNTED
16. PILE BENT ABUTMENT
17. PIER DETAILS
- 18-22. BORING LOGS

WATERWAY INFORMATION

		EXISTING LOW GRADE EL. = 440.13 FT. @ STA. 216+00		PROPOSED LOW GRADE EL. = 440.13 FT. @ STA. 216+00					
FLOOD	FREQ. YR.	Q CFS	OPENING SQ. FT.	NAT. H.W.E.	HEAD - FT.	HEADWATER EL.			
				EXIST.	PROP.	EXIST.	PROP.		
DESIGN	10	14,300	2,540	3,138	436.6	1.5	1.3	437.1	436.9
BASE	30	20,100	3,091	3,569	436.7	3.1	1.8	439.8	438.5
OVERTOPPING	100	26,800	3,091	3,828	437.9	2.8	2.4	440.7	440.3
MAX. CALC.	110	30,750	3,091	3,828	438.5	2.4	2.0	440.9	440.5



PLAN

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

PRECAST PRESTRESSED CONCRETE	CAST IN PLACE CONCRETE
f'c = 6,000 psi	f'c = 3,500 psi
f'ol = 5,000 psi	fy = 60,000 psi (REINF.)
f's = 270,000 psi (1/2" STRANDS)	
f'sl = 201,960 psi (1/2" STRANDS)	

LOADING HS20-44

ALLOW 50 psf FOR FUTURE WEARING SURFACE.

SEISMIC DATA

SEISMIC PERFORMANCE CATEGORY (SPC): B
BEDROCK ACCELERATION COEFFICIENT: 9.7%
SITE COEFFICIENT (S) = 2.0 (TYPE IV)

GENERAL PLAN & ELEVATION

F.A.S. 788 (C.H. 24/C.H. 16)
OVER CROOKED CREEK
SECTION 03-00075-00-BR
WASHINGTON COUNTY
SECTION 03-00082-00-BR
CLINTON COUNTY
STATION 205+54
STRUCTURE NO. 095-3252

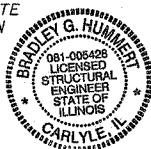
CROOKED CREEK
BUILT 200 BY
WASHINGTON COUNTY
SECTION 03-00075-00-BR
CLINTON COUNTY
SECTION 03-00082-00-BR
F.A.S. 788 STATION 205+54
S.N. 095-3252 LOADING HS-20
PROJ. NO. BRS-788(109)

NAME PLATE

LOCATE NAME PLATE AS SHOWN IN PLAN VIEW (SEE STD. 515001)

"I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT 'A.A.S.H.T.O. STANDARD SPECIFICATION FOR HIGHWAY BRIDGES' INCLUDING SEISMIC DESIGN."

Bradley G. Hummert DATE: 2/21/06
BRADLEY G. HUMMERT
LICENSED STRUCTURAL ENGINEER
IN ILLINOIS NO. 081-005428 EXPIRES: NOVEMBER 30, 2006



NOTE:
CHANNEL EXCAVATION SHALL BE TRANSITIONED FROM THE EDGE OF THE PROPOSED DECK TO MATCH THE EXISTING CHANNEL AND OVBANK AT TAPER RATE OF 10:1 AND BY R.O.W. LINE.