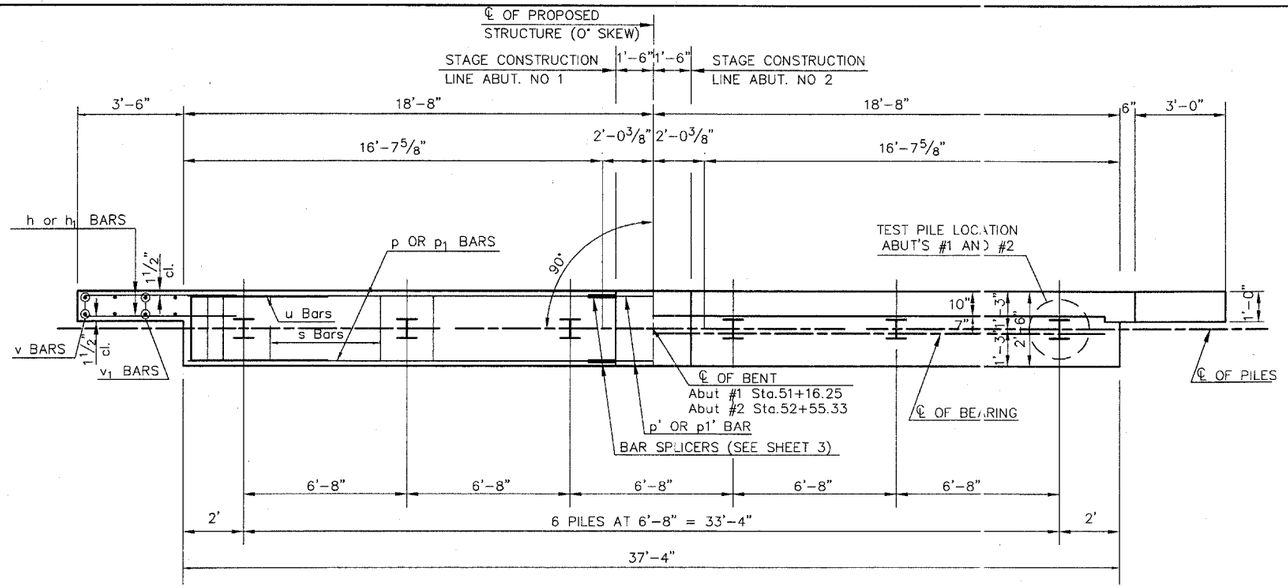
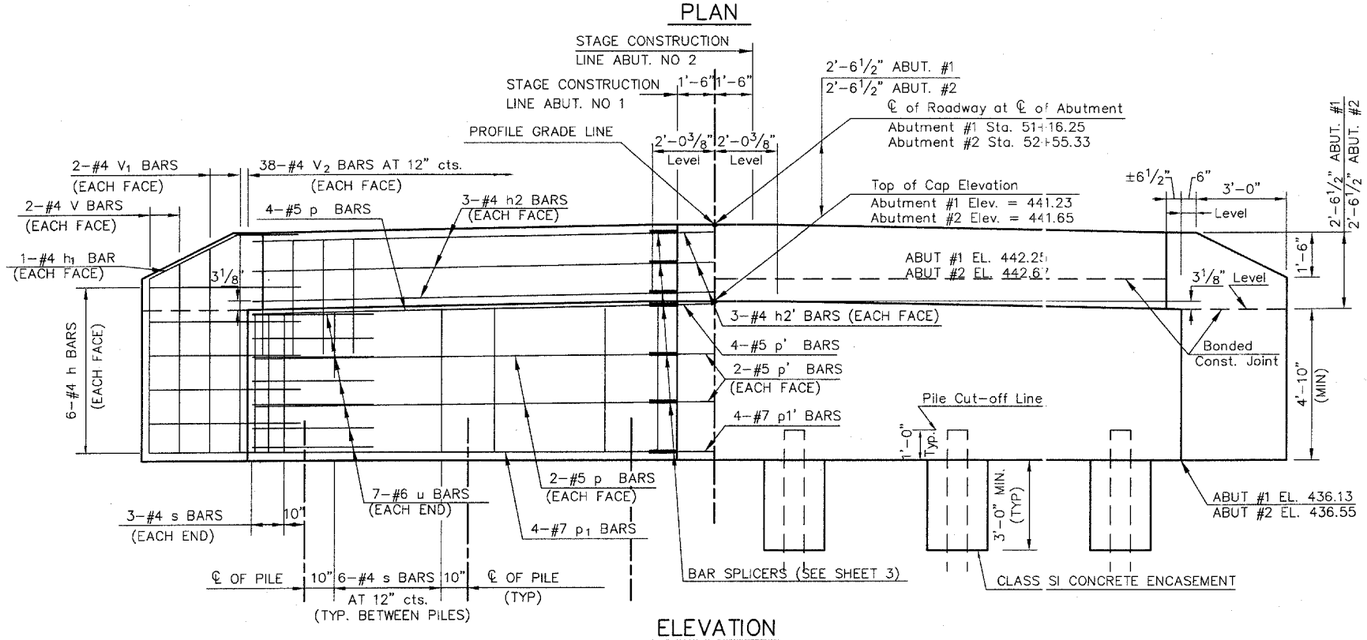
SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
00-00196-08-BR	47	ST. CLAIR	12 OF 18
FHWA REG.NO.7	ILLINOIS	FEDERAL AID PROJECT	
		CONTRACT 97257	



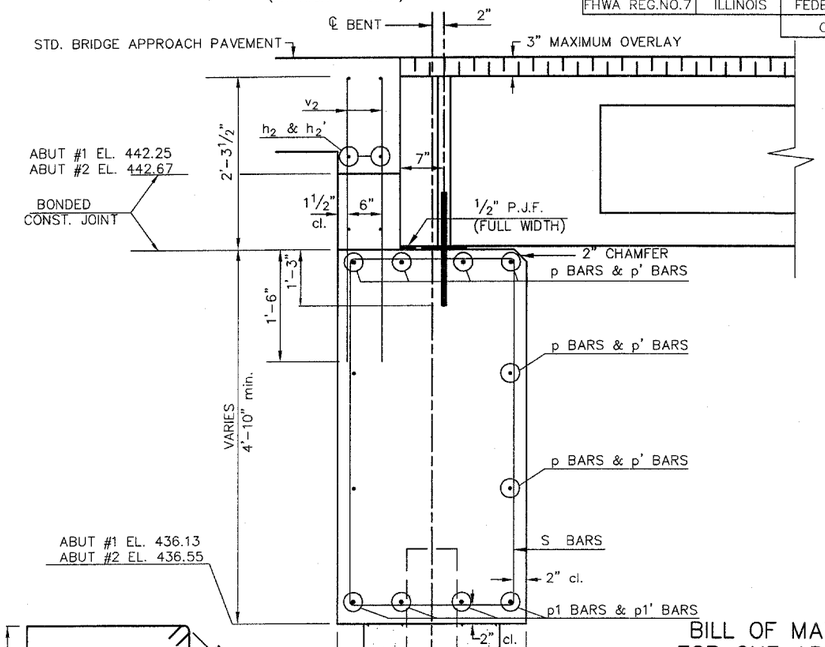
PLAN



ELEVATION

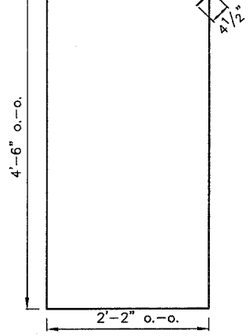
SECTION THRU ABUTMENT

(AT RIGHT ANGLES)

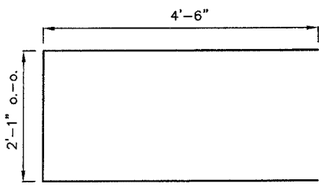


BILL OF MATERIAL FOR ONE ABUTMENT

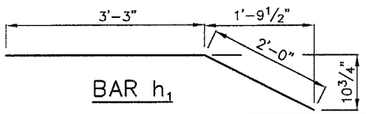
Bar	No.	Size	Length	Shape
h	24	#4	5'-0"	——
h_1	4	#4	5'-3"	——
h_2	6	#4	16'-9 1/2"	——
h_2'	6	#4	19'-10 1/2"	——
p	8	#5	16'-9 1/2"	——
p'	8	#5	19'-10 1/2"	——
p_1	4	#7	16'-9 1/2"	——
p_1'	4	#7	19'-10 1/2"	——
s	36	#4	14'-1"	□
u	14	#6	11'-1"	⊏
v	8	#4	3'-2"	——
v_1	8	#4	4'-2"	——
v_2	76	#4	3'-11"	——



BAR s



BAR u



BAR h_1

QUANTITIES FOR ONE ABUTMENT

CONCRETE STRUCTURES	20.2 CU YD
REINFORCEMENT BARS,EPOXY COATED	1657 LBS
CONCRETE ENCASEMENT	2.0 CU YD
METAL SHOES	5 EACH
BAR SPLICERS	18 EACH

	INITIALS	DATE
DESIGNED	JLH	10/04
CHECKED	—	—
DRAWN	JLH	10/04
CHECKED	—	—
PREPARED BY ST. CLAIR COUNTY		
CADD DRAWING FILE: ABUTMENT		

DESIGN STRESS
f'c = 3500 psi
fy = 60000 psi

MAXIMUM PILE LOAD
40' SPAN = 29 TONS
60' SPAN = 42 TONS

NOTES

1. THE BACKWALL AND THE PORTION OF THE WINGWALLS ABOVE THE BONDED CONSTRUCTION JOINT SHALL BE CAST AGAINST THE IN-PLACE BEAM.
2. REINFORCEMENT BARS SHALL CONFORM TO A.A.S.H.T.O. M-31, M-42 or M-53. GRADE 60.
3. ALL REINFORCEMENT BARS SHOWN SHALL BE EPOXY COATED
3. SEE SHEETS 5 & 6 FOR STAGE CONSTRUCTION DETAILS.

PILE DATA (2-ABUTMENTS)

TYPE:	HP 12x53 (W/ METAL SHOES)
CAPACITY:	DRIVEN TO REFUSAL
ESTIMATED LENGTH:	104 FT (ABUTMENT #1) 107 FT (ABUTMENT #2)
NUMBER REQUIRED:	18 (INCLUDES TWO TEST PILES TO BE DRIVEN AT THE LOCATION SHOWN ON THE PLANS)

P.P.C. DECK BEAMS PILE BENT ABUTMENT

36' RDWY.	27" BMS.
0° SKEW	