

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	06-00214-20-BR	KANE	320	177
STA. 511+80.00		TO STA. 609+14.92		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
				SHEET NO. S72 OF S108

MUP BRIDGE - EAST ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_{51}(E)$	5	# 6	14'-8"	—
$h_{52}(E)$	12	# 4	4'-8"	—
$h_{53}(E)$	8	# 5	4'-6"	□
$n_{51}(E)$	12	# 5	8'-5"	□
$p_{51}(E)$	14	# 8	17'-2"	—
$p_{52}(E)$	12	# 5	4'-8"	—
$s_{51}(E)$	18	# 6	16'-0"	□
$s_{52}(E)$	12	# 4	9'-5"	□
$u_{51}(E)$	8	# 4	7'-0"	□
$v_{51}(E)$	48	# 4	2'-3"	—
Concrete Structures		Cu. Yd.	14	
Reinforcement Bars, Epoxy Coated		Pound	1,610	
Furnishing Steel Piles HP 12x53		Foot	58	
Driving Piles		Foot	58	
Test Pile Steel HP 12x53		Each	1	
Concrete Encasement		Cu. Yd.	1	
Concrete Sealer		Sq. Ft.	171	

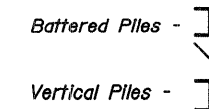
PILE DATA

Type: HP 12x53
 Nominal Required Bearing: 360 kips
 Factored Resistance Available: 180 kips
 Est. Length: 29
 No. Production Piles: 2
 No. Test Piles: 1

Piles shall be driven through 18 inch diameter precored holes extending to elevation 691.00 feet according to article 512.09(c) of the standard specifications. All costs associated with precoring and backfilling shall be included in "Driving Piles".

No piles shall be driven until a minimum of 30 days after the full height construction of the abutment embankment and construction berm.

The contractor shall limit the pile hammer size selected considering the relatively high soil strengths indicated in the borings and avoid overdriving the piles beyond their nominal required bearing to prevent pile damage during driving.



Notes:

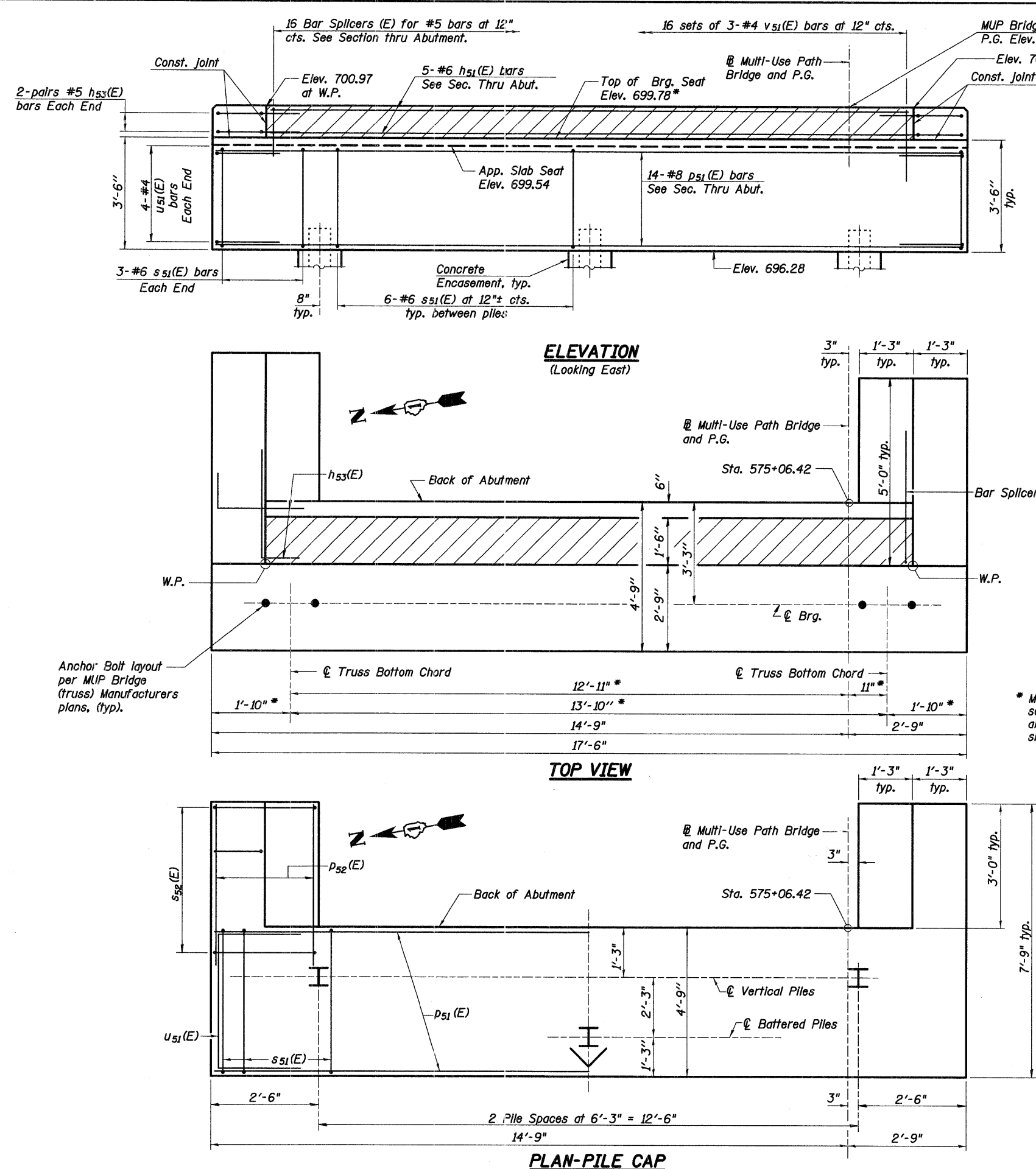
1. For details of Bar Splicers, see sheet S25 of S108.
2. For additional abutment details see sheet S73 of S108.
3. For bearing assembly and bearing assembly anchor bolt details see sheet S69 of S108.
4. Expansion Joint details per Pedestrian Truss design.
5. Space reinforcement in pile cap to miss anchor bolts.
6. Hatched area to be poured after superstructure false work has been removed.
7. For details of piles and concrete encasement see sheet S52 of S108.
8. Concrete Sealer shall be applied to the surface of the backwall, bearing seat, and pile cap front face.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MUP BRIDGE - EAST ABUTMENT I
 MULTI-USE PATH BRIDGE OVER THE FOX RIVER
 STRUCTURE NUMBER 045-3164 PUBLIC WORKS
 KANE COUNTY FAP 361 SECTION 06-00214-20-BR
 STATION 572+37.71 DESIGNED: DAP DRAWN: SGW
 DATE: JANUARY 16, 2009 CHECKED: KPZ CHECKED: KPZ

Baker

Baker Engineering, Inc.



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 1/15/2009