

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	06-00214-20-BR	KANE	320	144
STA. 511+80.00		TO STA. 609+14.92		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
SHEET NO. S39 OF S108				

**WEST ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	A	B	C
$d_{u(E)}$	3	# 5	6'-8"		1'-7"	3'-6"	
$d_{u(E)}$	5	# 5	4'-4"		1'-7"	1'-2"	
$h(E)$	7	# 4	28'-2"				
$h_1(E)$	24	# 5	30'-11"				
$h_2(E)$	10	# 6	31'-3"				
$h_3(E)$	26	# 4	16'-8"				
$h_4(E)$	16	# 7	16'-8"				
$h_5(E)$	28	# 7	5'-0"		3'-10"	1'-2"	
$h_6(E)$	16	# 4	4'-6"				
$h_m(E)$	8	# 4	7'-0"				
$h_u(E)$	4	# 5	8'-10"		3'-7"	1'-8"	
$n(E)$	36	# 5	10'-3"		4'-8"	0'-11"	
$p(E)$	28	# 8	33'-7"				
$p_1(E)$	12	# 6	32'-10"				
$p_2(E)$	12	# 7	17'-0"				
$s(E)$	60	# 6	19'-0"		3'-2"	5'-8"	0'-8"
$s_1(E)$	34	# 4	9'-5"		2'-2"	2'-2"	0'-4 1/2"
$s_2(E)$	9	# 4	7'-5"		1'-2"	2'-2"	0'-4 1/2"
$u(E)$	8	# 6	9'-9"		2'-1"	5'-7"	
$u_1(E)$	29	# 4	8'-4"		1'-4"	5'-8"	
$u_2(E)$	4	# 4	2'-0"				
$u_3(E)$	3	# 4	3'-0"				
$v(E)$	61	# 5	8'-4"				
$v_1(E)$	61	# 5	7'-6"				
$v_2(E)$	61	# 4	3'-6"				
$v_3(E)$	61	# 5	3'-8"				
$v_4(E)$	36	# 6	15'-5"		7'-3"	0'-11"	
$v_m(E)$	3	# 6	7'-6"		3'-9"	3'-9"	
$v_u(E)$	10	# 5	8'-0"				

**EAST ABUTMENT
BILL OF MATERIAL**

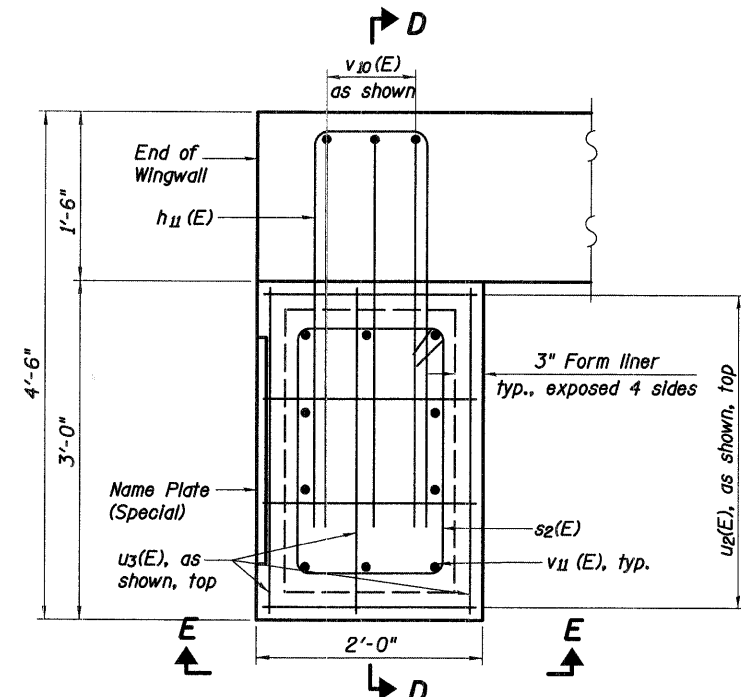
Bar	No.	Size	Length	Shape	A	B	C
$d_{u(E)}$	3	# 5	6'-8"		1'-7"	3'-6"	
$d_{u(E)}$	5	# 5	4'-4"		1'-7"	1'-2"	
$h(E)$	7	# 4	28'-2"				
$h_1(E)$	28	# 5	30'-11"				
$h_2(E)$	10	# 6	31'-3"				
$h_3(E)$	28	# 4	18'-8"				
$h_7(E)$	18	# 8	18'-8"				
$h_8(E)$	32	# 8	6'-2"		4'-10"	1'-4"	
$h_9(E)$	32	# 4	4'-6"				
$h_m(E)$	8	# 4	7'-0"				
$h_u(E)$	4	# 5	8'-10"		3'-7"	1'-8"	
$n(E)$	40	# 5	11'-1"		5'-1"	0'-11"	
$p(E)$	28	# 8	33'-7"				
$p_1(E)$	12	# 6	32'-10"				
$p_3(E)$	12	# 8	20'-0"				
$s(E)$	60	# 6	19'-0"		3'-2"	5'-8"	0'-8"
$s_1(E)$	38	# 4	9'-5"		2'-2"	2'-2"	0'-4 1/2"
$s_2(E)$	9	# 4	7'-5"		1'-2"	2'-2"	0'-4 1/2"
$u(E)$	8	# 6	9'-9"		2'-1"	5'-7"	
$u_1(E)$	29	# 4	8'-4"		1'-4"	5'-8"	
$u_2(E)$	4	# 4	2'-0"				
$u_3(E)$	3	# 4	3'-0"				
$v_2(E)$	61	# 4	3'-6"				
$v_3(E)$	61	# 5	3'-8"				
$v_7(E)$	61	# 5	9'-9"				
$v_8(E)$	61	# 5	8'-9"				
$v_9(E)$	40	# 6	17'-1"		8'-1"	0'-11"	
$v_m(E)$	3	# 6	7'-6"		3'-9"	3'-9"	
$v_u(E)$	10	# 5	8'-0"				

Concrete Structures	Cu. Yd.	100
Reinforcement Bars, Epoxy Coated	Pound	11,160
Structure Excavation	Cu. Yd.	0
Form Liner Textured Surface	Sq. Ft.	251
Furnishing Steel Piles HP 12x74	Foot	1,328
Driving Piles	Foot	1,328
Test Pile Steel HP 12x74	Each	1
Concrete Encasement	Cu. Yd.	6
Concrete Sealer	Sq. Ft.	926

Concrete Structures	Cu. Yd.	111
Reinforcement Bars, Epoxy Coated	Pound	12,560
Structure Excavation	Cu. Yd.	0
Form Liner Textured Surface	Sq. Ft.	293
Furnishing Steel Piles HP 12x74	Foot	656
Driving Piles	Foot	656
Test Pile Steel HP 12x74	Each	1
Concrete Encasement	Cu. Yd.	6
Concrete Sealer	Sq. Ft.	1,010

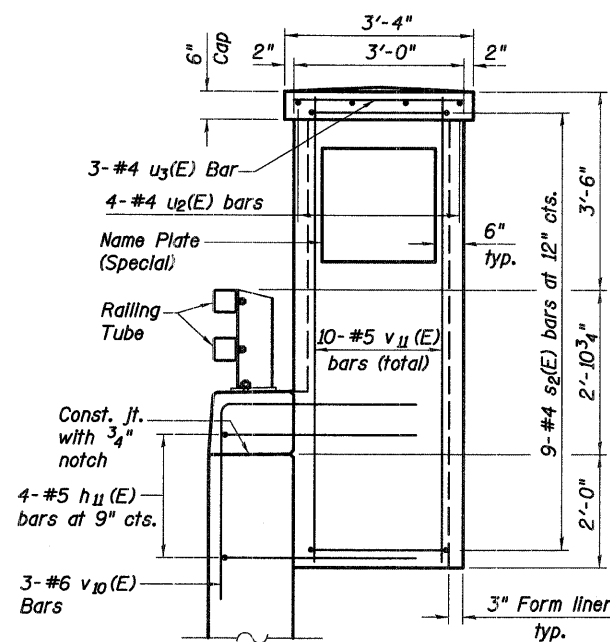
MINIMUM BAR LAP

#5	=	2'-2"
#6	=	2'-10"
#8	=	4'-6"



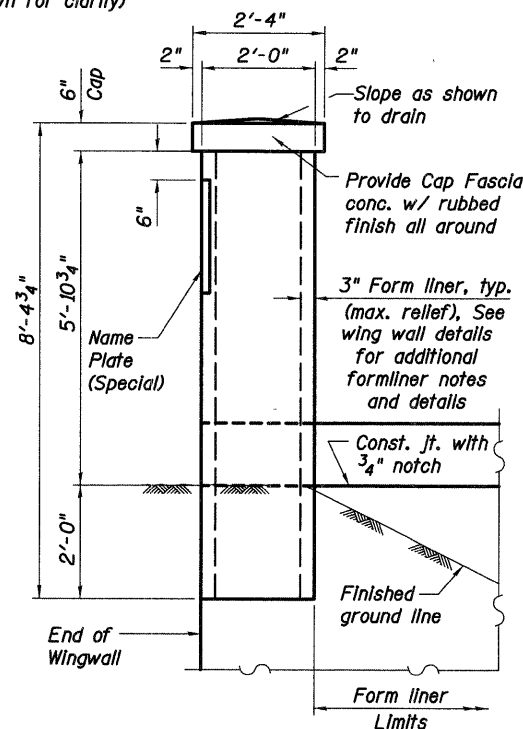
PILLAR PLAN

(Wingwall bars, railing and cap not shown for clarity)



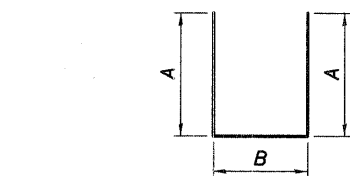
SECTION D-D

(Wingwall bars not shown for clarity, see abutment sheets, see View E-E for name plate location)

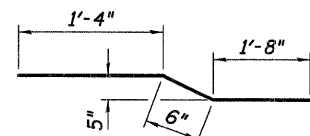


SECTION E-E

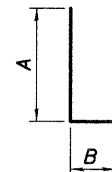
(Railing not shown for clarity)



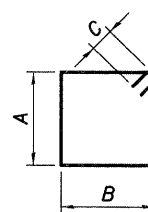
BARS $d_{11}(E)$, $d_{12}(E)$, $h_{11}(E)$ $n(E)$, $u(E)$ thru $u_3(E)$, $v_4(E)$ & $v_9(E)$



BAR $v_2(E)$



BAR $h_5(E)$, $h_8(E)$ & $v_{10}(E)$



BARS $s_1(E)$, $s_1(E)$ & $s_2(E)$

Notes:

1. For West Abutment details see sheets S35 and S36 of S108.
2. For East Abutment details see sheets S37 and S38 of S108.
3. Cost of Deck railing to abutment post connection details included with Steel Bridge Rail, Special.
4. For steel bridge rail details see sheet S23 of S108.
5. See "Name Plates (Special) special provision for additional information.
6. Adjust Pillar bars within Wingwall around Wingwall bars or vice versa.

REVISIONS	
NAME	DATE

Baker
Baker Engineering, Inc.

ILLINOIS DEPARTMENT OF TRANSPORTATION
ABUTMENT DETAILS
STEARNS ROAD OVER THE FOX RIVER PUBLIC WATERS
STRUCTURE NUMBER 045-3166
KANE COUNTY FAP 361 SECTION 06-00214-20-BR
STATION 571+42.96 DESIGNED: DAP DRAWN: SGW
DATE: JANUARY 16, 2009 CHECKED: KPZ CHECKED: KPZ