

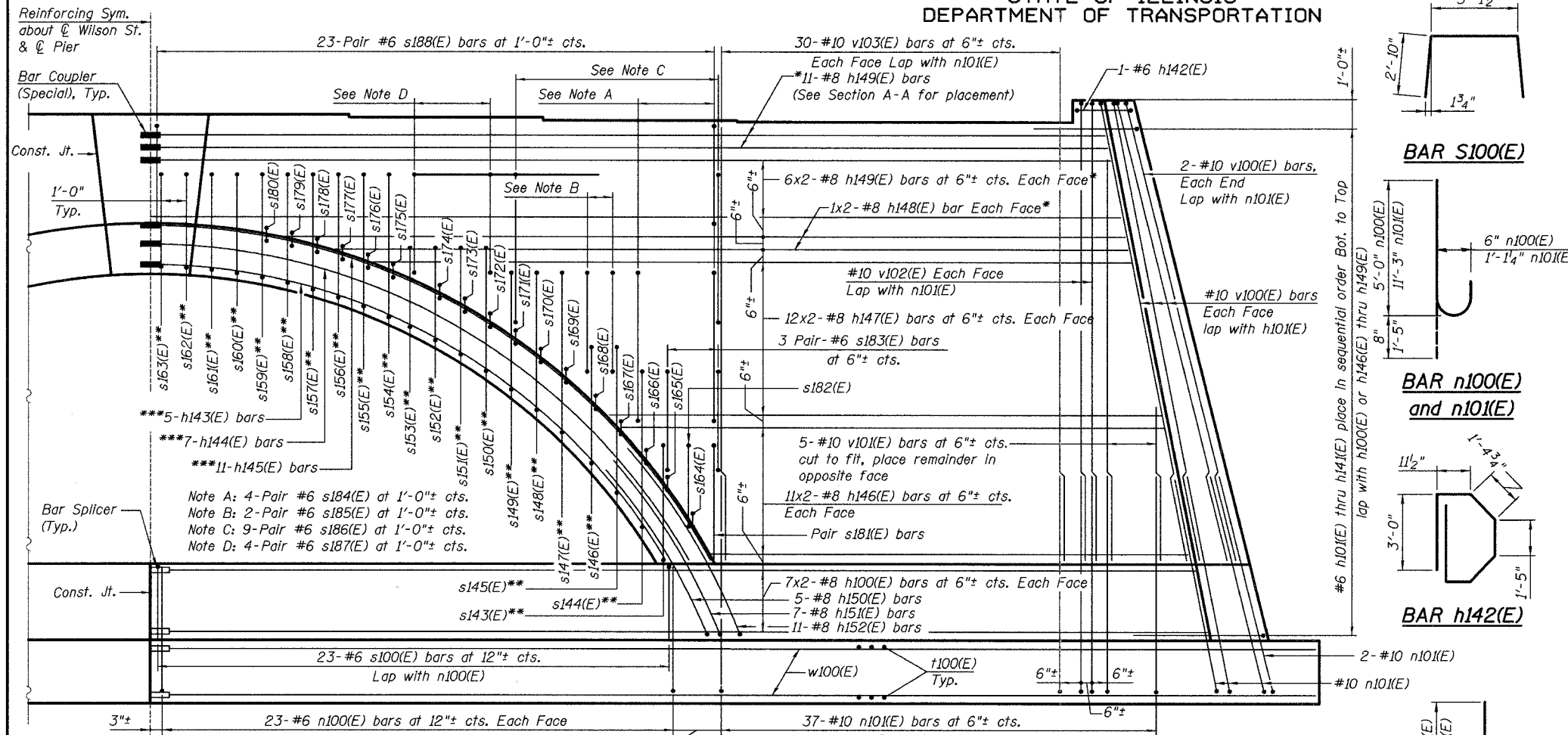
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	JOB NO.	SHEET	SHEET NO. S38 of S52 SHEETS
FAU 1441	00-00059-00-BR	KANE	154	109	
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT-	

Contract # 83869

BILL OF MATERIAL (2-PIERS)

Bar No.	Size	Length	Shape
h100(E)	#8	24'-0"	
h101(E)	#8	17'-0 1/4"	
h102(E)	#8	16'-11 1/2"	
h103(E)	#8	16'-10 3/4"	
h104(E)	#8	16'-10"	
h105(E)	#8	16'-9 1/4"	
h106(E)	#8	16'-8 1/2"	
h107(E)	#8	16'-7 1/2"	
h108(E)	#8	16'-6 3/4"	
h109(E)	#8	16'-6"	
h110(E)	#8	16'-5 1/4"	
h111(E)	#8	16'-4 1/2"	
h112(E)	#8	16'-3 1/2"	
h113(E)	#8	16'-2 1/2"	
h114(E)	#8	16'-2"	
h115(E)	#8	16'-1 1/2"	
h116(E)	#8	16'-0 1/2"	
h117(E)	#8	15'-11 3/4"	
h118(E)	#8	15'-10 3/4"	
h119(E)	#8	15'-10"	
h120(E)	#8	15'-9 1/4"	
h121(E)	#8	15'-8 1/2"	
h122(E)	#8	15'-7 3/4"	
h123(E)	#8	15'-6 3/4"	
h124(E)	#8	15'-6"	
h125(E)	#8	15'-5 1/4"	
h126(E)	#8	15'-4 1/2"	
h127(E)	#8	15'-3 3/4"	
h128(E)	#8	15'-3"	
h129(E)	#8	15'-2"	
h130(E)	#8	15'-1 1/4"	
h131(E)	#8	15'-0 1/2"	
h132(E)	#8	14'-11 3/4"	
h133(E)	#8	14'-11"	
h134(E)	#8	14'-10 1/4"	
h135(E)	#8	14'-9 1/2"	
h136(E)	#8	14'-8 1/2"	
h137(E)	#8	14'-7 3/4"	
h138(E)	#8	14'-7"	
h139(E)	#8	14'-6 1/4"	
h140(E)	#8	14'-5 1/2"	
h141(E)	#8	14'-4 1/2"	
h142(E)	#6	12'-2"	
h143(E)	#8	24'-6"	
h144(E)	#8	25'-9"	
h145(E)	#8	27'-0"	
h146(E)	#8	13'-11"	
h147(E)	#8	18'-2"	
h148(E)	#8	19'-10"	
h149(E)	#8	22'-0"	
h150(E)	#8	11'-5"	
h151(E)	#8	11'-5"	
h152(E)	#8	11'-5"	
n100(E)	#6	5'-8"	
n101(E)	#10	12'-8"	
s100(E)	#6	10'-9 1/2"	
s143(E)	#8	12'-9 1/4"	
s144(E)	#8	12'-10"	
s145(E)	#8	13'-0"	
s146(E)	#8	13'-3"	
s147(E)	#8	13'-7 1/4"	
s148(E)	#8	14'-0 1/4"	
s149(E)	#8	14'-6 3/4"	
s150(E)	#8	15'-2"	
s151(E)	#8	15'-2"	
s152(E)	#8	15'-2"	
s153(E)	#8	16'-3 1/2"	
s154(E)	#8	16'-3 1/2"	
s155(E)	#8	16'-3 1/2"	
s156(E)	#8	16'-3 1/2"	
s157(E)	#8	16'-3 1/2"	
s158(E)	#8	16'-3 1/2"	
s159(E)	#8	16'-3 1/2"	
s160(E)	#8	16'-3 1/2"	
s161(E)	#8	16'-3 1/2"	
s162(E)	#8	16'-3 1/2"	
s163(E)	#8	16'-3 1/2"	
s164(E)	#8	16'-3 1/2"	
s165(E)	#8	16'-3 1/2"	
s166(E)	#8	16'-3 1/2"	
s167(E)	#8	16'-3 1/2"	
s168(E)	#8	16'-3 1/2"	
s169(E)	#8	16'-3 1/2"	
s170(E)	#8	16'-3 1/2"	
s171(E)	#8	16'-3 1/2"	
s172(E)	#8	16'-3 1/2"	
s173(E)	#8	16'-3 1/2"	
s174(E)	#8	16'-3 1/2"	
s175(E)	#8	16'-3 1/2"	
s176(E)	#8	16'-3 1/2"	
s177(E)	#8	16'-3 1/2"	
s178(E)	#8	16'-3 1/2"	
s179(E)	#8	16'-3 1/2"	
s180(E)	#8	16'-3 1/2"	
v100(E)	#10	20'-1"	
v101(E)	#10	22'-0"	
v102(E)	#10	19'-5"	
v103(E)	#10	20'-2"	
w100(E)	#8	26'-1"	
Concrete Structures	Cu. Yd.	686.3	
Concrete Fill	Cu. Yd.	353.5	
Reinforcement Bars, Epoxy Coated	Pound	148200	
Furnishing, Installing and Stressing Post-Tensioning Strands	Pound	20360	
Rock Excavation for Structures	Cu. Yd.	58	
Bridge Seat Sealer	Sq. Ft.	595	
Bar Couplers (Special)	Each	114	



PARTIAL ELEVATION- SHOWING TYPICAL REINFORCEMENT

* Couple Stage I reinforcement at Top of Stem to Stage II reinforcement with Bar Couplers.
** Place in Pairs
*** Lap with h150(E) or h151(E) or h152(E)

Bar Size	Min. Lap
#6	2'-0"
#6*	2'-10"
#8*	6'-4"
#10	5'-10"

* Horizontal Bar

Bar	R	S
h143(E)	23'-7"	24'-6"
h144(E)	24'-5"	25'-9"
h145(E)	25'-1"	27'-0"

Bar	D	E	F	G	H	J
s143(E)	2'-4 1/2"	1'-11 1/4"	1'-11"	1'-6 3/4"	3'-7 3/4"	10 1/4"
s144(E)	2'-4 1/2"	1'-11 3/4"	1'-11"	1'-6 3/4"	3'-8 1/4"	10 1/4"
s145(E)	2'-4 1/2"	2'-0 3/4"	1'-11"	1'-6 3/4"	3'-9 1/4"	10 1/4"
s146(E)	2'-4 1/2"	2'-2"	1'-11"	1'-6 3/4"	3'-10 3/4"	10 1/4"
s147(E)	2'-4 1/2"	2'-4"	1'-11 1/4"	1'-6 3/4"	4'-0 3/4"	10 1/4"
s148(E)	2'-4 1/2"	2'-6 1/4"	1'-11 1/2"	1'-7"	4'-3 1/4"	10 1/4"
s149(E)	2'-4 1/2"	2'-9 1/4"	1'-11 1/2"	1'-7"	4'-6 1/2"	10 1/4"
s150(E)	2'-4 1/2"	3'-0 3/4"	1'-11 3/4"	1'-7"	4'-10 1/4"	10 1/4"
s151(E)	2'-4 1/2"	3'-4 1/2"	2'-0"	1'-7 1/4"	5'-2 1/2"	10 1/4"
s152(E)	2'-4 1/2"	3'-9 1/4"	2'-0 1/2"	1'-7 1/4"	5'-7 1/4"	10 1/4"
s153(E)	2'-5 1/2"	1'-2 1/2"	2'-0 3/4"	1'-7 3/4"	3'-1"	10 1/4"
s154(E)	2'-5 1/2"	1'-8 1/4"	2'-1 1/4"	1'-7 3/4"	3'-7 1/4"	10 1/4"
s155(E)	2'-5 1/2"	2'-2 1/2"	2'-1 3/4"	1'-8"	4'-2"	10"
s156(E)	2'-5 1/2"	2'-9 1/2"	2'-2 1/2"	1'-8 1/4"	4'-10"	10"
s157(E)	2'-5 3/4"	2'-5 3/4"	2'-3 1/4"	1'-8 1/2"	4'-7"	10"
s158(E)	2'-5 3/4"	3'-2 1/4"	2'-4"	1'-8 1/2"	5'-4 1/2"	10"
s159(E)	2'-5 3/4"	4'-0"	2'-5 1/4"	1'-9"	6'-3 1/2"	10"
s160(E)	2'-7"	2'-1 1/2"	2'-7"	1'-9 3/4"	4'-7"	10"
s161(E)	2'-7"	3'-1 1/4"	2'-8 3/4"	1'-10"	5'-9"	9 3/4"
s162(E)	2'-7 1/4"	3'-3 3/4"	2'-11 1/2"	1'-10 1/2"	6'-1 3/4"	9 3/4"
s163(E)	2'-8 1/2"	1'-5 1/2"	3'-2 1/4"	1'-11 1/4"	4'-6 1/2"	9 3/4"

Bar	K	L	M	N
s182(E)	3'-1 1/2"	3'-2 1/2"	1 3/4"	3'-2 1/2"
s183(E)	2'-11 1/4"	3'-10 1/2"	2 1/4"	3'-10 1/2"
s184(E)	2'-8 1/2"	5'-9 3/4"	3 1/4"	5'-9 3/4"
s185(E)	2'-8 1/2"	3'-10 1/2"	2 1/4"	3'-10 1/2"
s186(E)	2'-5 1/2"	3'-10 1/2"	2 1/4"	3'-10 1/2"
s187(E)	2'-5 1/2"	3'-10 1/2"	2 1/4"	3'-10 1/2"
s188(E)	2'-4"	3'-10 1/2"	2 1/4"	3'-10 1/2"

Bar	A
s164(E)	5'-6 3/4"
s165(E)	5'-5 1/4"
s166(E)	5'-4"
s167(E)	5'-2 3/4"
s168(E)	5'-1 1/2"
s169(E)	5'-0 1/4"
s170(E)	4'-11 1/2"
s171(E)	4'-10 1/2"
s172(E)	4'-9 3/4"
s173(E)	4'-9 1/4"
s174(E)	4'-8 1/2"
s175(E)	4'-7 3/4"
s176(E)	4'-7 1/4"
s177(E)	4'-6 3/4"
s178(E)	4'-6 1/2"
s179(E)	4'-6 1/4"
s180(E)	4'-6"

Bar	B	C
h101(E)	2'-9 3/4"	1'-11 3/4"
h102(E)	2'-9 1/4"	1'-11 1/2"
h103(E)	2'-8 3/4"	1'-11 1/4"
h104(E)	2'-8 1/2"	1'-11"
h105(E)	2'-8"	1'-10 3/4"
h106(E)	2'-7 3/4"	1'-10 1/4"
h107(E)	2'-7 1/4"	1'-10"
h108(E)	2'-7"	1'-9 3/4"
h109(E)	2'-6 1/2"	1'-9 1/2"
h110(E)	2'-6"	1'-9 1/4"
h111(E)	2'-5 3/4"	1'-9"
h112(E)	2'-5 1/4"	1'-8 3/4"
h113(E)	2'-5"	1'-8 1/2"
h114(E)	2'-4 1/2"	1'-8 1/4"
h115(E)	2'-4"	1'-8"
h116(E)	2'-3 3/4"	1'-7 3/4"
h117(E)	2'-3 1/4"	1'-7 1/4"
h118(E)	2'-3"	1'-7"
h119(E)	2'-2 1/2"	1'-6 3/4"
h120(E)	2'-2 1/4"	1'-6 1/2"
h121(E)	2'-1 3/4"	1'-6 1/4"
h122(E)	2'-1 1/4"	1'-6"

Bar	B	C
h123(E)	2'-1"	1'-5 3/4"
h124(E)	2'-0 1/2"	1'-5 1/4"
h125(E)	2'-0 1/4"	1'-5"
h126(E)	1'-11 3/4"	1'-4 3/4"
h127(E)	1'-11 1/4"	1'-4 1/2"
h128(E)	1'-11"	1'-4 1/4"
h129(E)	1'-10 1/2"	1'-4"
h130(E)	1'-10 1/4"	1'-3 3/4"
h131(E)	1'-9 3/4"	1'-3 1/4"
h132(E)	1'-9 1/4"	1'-3"
h133(E)	1'-9"	1'-2 3/4"
h134(E)	1'-8 1/2"	1'-2 1/2"
h135(E)	1'-8 1/4"	1'-2 1/4"
h136(E)	1'-7 3/4"	1'-2 1/2"
h137(E)	1'-7 1/2"	1'-1 3/4"
h138(E)	1'-7"	1'-1 1/2"
h139(E)	1'-6 1/2"	1'-1 1/4"
h140(E)	1'-6 1/4"	1'-1 1/2"
h141(E)	1'-5 3/4"	1'-1 1/2"

Bar	R
h150(E)	23'-7"
h151(E)	24'-5"
h152(E)	25'-1"

NOTES

- See Sheet No. 108 for dimensions of Pier.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

PIER DETAILS II
WILSON ST OVER FOX RIVER
SECTION 00-00059-00-BR
KANE COUNTY
STRUCTURE NO. 045-6051

LOCHNER
H.W. LOCHNER, INC., CHICAGO, ILLINOIS