



DATE	NO.	CONTR.	BY	DATE	SHEET NO. OF SHEETS
6-23-14	0707-608&611	6006	JHG	16	16

BEAM	A	B
B1	8'-4"	17'-4"
B2	8'-4"	17'-4"
B3 TRAV. DS	8'-4"	17'-4"
B4 TRAV. DS	8'-4"	17'-4"
B5	7'-5"	15'-0"
B16	7'-5"	15'-0"

NOTE:
 ALL ANCHOR BOLTS TO PROJECT 3" ABOVE FINISHED CONCRETE, EXCEPT AS NOTED. PROVIDE SPACING REINFORCEMENT IN CAP TO MISS ANCHOR BOLTS.
 ALL EDGES TO HAVE STC. 3/4" CHAMFER EXCEPT AS NOTED.
 POUR STEPS MONOLITHICALLY WITH PIER CAP.
 SET TO BAR INDICATION
 3'-2" TO 4'-0" ETC. MEANS 5 LINES OF BARS WITH 4 LENGTHS PER LINE.
 MIN. BAR LAP = 20 DIA.

BAR LIST (2 PIERS)		PIER 4	PIER 5	TOTAL	SIZE	LENGTH	SHAPE
S20	8	8	16	5	27'-3"		
S22	8	8	16	10	21'-5"		
S24	12	12	24	5	20'-0"		
S26	36	36	72	10	7'-11"		
S28	14	14	28	8	6'-1"		
S30	4	4	8	10	53'-5"		
S32	8	8	16	5	7'-5"		
S34	8	8	16	10	11'-2"		
S36	10	10	20	10	21'-5"		
S38	5	5	10	5	8'-2"		
S40	4	4	8	12	10	27'-6"	
S42	40	40	80	4	6'-1"		
S44	40	40	80	4	6'-7"		
S46	28	28	56	5	15'-1"		
S48	15	15	30	4	10'-0"		
S50	7	7	14	3	8'-2"		
S52	50	50	100	4	8'-2"		
S54	40	40	80	4	2'-11"		
S56	40	40	80	4	8'-7"		
S58	40	40	80	4	8'-7"		
S60	40	40	80	4	8'-7"		
S62	40	40	80	4	8'-7"		
S64	40	40	80	4	8'-7"		
S66	40	40	80	4	8'-7"		
S68	40	40	80	4	8'-7"		
S70	40	40	80	4	8'-7"		
S72	40	40	80	4	8'-7"		
S74	40	40	80	4	8'-7"		
S76	40	40	80	4	8'-7"		
S78	40	40	80	4	8'-7"		
S80	40	40	80	4	8'-7"		
S82	40	40	80	4	8'-7"		
S84	40	40	80	4	8'-7"		
S86	40	40	80	4	8'-7"		
S88	40	40	80	4	8'-7"		
S90	40	40	80	4	8'-7"		
S92	40	40	80	4	8'-7"		
S94	40	40	80	4	8'-7"		
S96	40	40	80	4	8'-7"		
S98	40	40	80	4	8'-7"		
S100	40	40	80	4	8'-7"		
U20	6	6	12	6	6'-4"		
U21	8	8	16	5	5'-4"		
V11	56	56	112	10	12'-9"		
V12	14	14	28	8	12'-9"		
W27	14	14	28	5	21'-0"		
W28	14	14	28	5	21'-0"		

PILE DATA		
PILE TYPE	PIER 4	PIER 5
MIN. CAPACITY TONS	31.5	31.5
NO. REQUIRED	16	16
EST. LENGTH FEET	20	19
LET OFF ELEV.	597.35	598.50

* INCLUDES 1 TEST PILE

ALL BAR DIMENSIONS ARE OUT TO OUT. PREPARE ALL BAR MARKS FOR SHIPMENT WITH A NUMBER INDICATING THE PIER WHERE THE BARS WILL BE USED. EXAMPLE: 4 #20 BARS 500 FOR PIER 4 FOR ALL PIERS, BAR SUPPLIES SERIAL AT 20.

BILL OF MATERIAL (2 PIERS)		
ITEM	UNIT	QUANTITY
CLASS 2 CONCRETE	CU YD	68.0
REINFORCEMENT BARS	POUND	11803
FURNISHING STEEL PILES 3" DP 36	LIN FT	500
TEST PILE STEEL 3" DP 36	EA	1
DRIVING STEEL PILES	LIN FT	500
CLASS A EXCAVATION	CU YD	44

ILLINOIS DIVISION OF HIGHWAYS
 SOUTHWEST EXPRESSWAY
 LAWNDALE AVE. OVER I-55
 PIERS 4 AND 5

DE LEVY, CATHER & CO. ENGINEERS
 DESIGNED BY: V. BURDENIA
 DRAWN BY: J. BOBINAS
 CHECKED BY: J. BOBINAS
 IN CHARGE: E. L. HARRIS
 APPROVED: J. BOBINAS

benesch
 engineers - scientists - planners
 Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10093

USER NAME = ksnider	DESIGNED - KMS	REVISED -
PLOT SCALE =	CHECKED - JHG	REVISED -
PLOT DATE = 6/23/2014	DRAWN - KMS	REVISED -
	CHECKED - JHG	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING PLANS (6 OF 8)
 STRUCTURE NO. 016-1510
 SHEET NO. S46 OF S48 SHEETS

FOR INFORMATION ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	114
				CONTRACT NO. 60W77
				ILLINOIS FED. AID PROJECT

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