



SECTION	NO.	DATE	BY	CHKD.	APP.
E-1	1	10/11/10	JHG	KMS	

SHEET NO. 14
SHEETS

BEAM	A	B
B1	75'	24'
B2	75'	12'
B3 THRU B14	75'	12'
B15	75'	12'
B16	75'	12'

NOTE:
ALL ANCHOR BOLTS TO PROJECT 2" ABOVE FINISHED CONCRETE. EXCEPT AS NOTED, PROJECT 1/2" SPACE REINFORCEMENT IN CAP TO MISS ANCHOR BOLTS.
ALL EDGES TO HAVE 5/16" x 3/4" CHAMFER EXCEPT AS NOTED.
POUR STEPS MONOLITHICALLY WITH PIER CAP.
KEY TO BAR INDICATION: 5/8" - 10" @ 12" MEANS 5 LINES OF BARS WITH 1 LANDING PER LINE.
MIN. BAR LAP = 20 DIA.

BAR LIST (2 PIERS)

BAR NUMBER	PIER 2	PIER 6	TOTAL	SIZE	LENGTH	SHAPE
H20	8	8	16	3	26'-5"	
H21	8	8	16	20	15'-9"	
H22	16	16	32	5	15'-5"	
H23	32	32	64	10	1'-0"	
H24	14	14	28	5	7'-5"	
P20	6	6	12	10	33'-5"	
P21	6	6	12	10	20'-5"	
P22	6	6	12	10	19'-0"	
P23	3	3	6	5	8'-0"	
P24	10	10	20	10	20'-0"	
P25	8	8	16	5	7'-5"	
S20	40	40	80	4	6'-1"	
S21	40	40	80	4	6'-7"	
S22	28	28	56	4	15'-4"	
S23	11	11	22	4	10'-5"	
S24	6	6	12	4	25'-5"	
S25	55	55	110	4	9'-1"	
S26	40	40	80	4	9'-1"	
S27	22	22	44	4	10'-7"	
S28	40	40	80	4	6'-4"	
S29	40	40	80	4	7'-1"	
S30	20	20	40	4	6'-1"	
S31	10	10	20	3	6'-4"	
S32	10	10	20	3	6'-4"	
V20	36	36	72	10	14'-0"	
V21	14	14	28	5	12'-0"	
W20	18	18	36	8	21'-0"	

BARS
S20, S21, S24, S26 THRU S31
U20 & U21

PILE DATA

PILE TYPE	PIER 2	PIER 6
MIN. CAPACITY TONS	32	32
NO. REQUIRED	24	24
EST. LENGTH FEET	17	20
CUT OFF ELEV.	596.20	596.69

* INCLUDES 1 TEST PILE

ALL BAR DIMENSIONS ARE OUT TO OUT. PREFIX ALL BAR MARKS FOR SHIPMENT WITH A NUMBER INDICATING THE PIER WHERE THE BARS WILL BE USED. EXAMPLE: 2 POINTING BARS PROFOR PIER 2 FOR ALL PIERS BAR SUPPLIES DESIG AT 20.

BILL OF MATERIAL (2 PIERS)

ITEM	UNIT	QUANTITY	
		PIER 2	PIER 6
CLASS 2 CONCRETE	CU YD	76.9	77.7
REINFORCEMENT BARS	POUNDS	17,388	17,474
FURNISHING STEEL PILES 3" DP 36	LINE FT	597	480
TEST PILE STEEL 3" DP 36	EA	1	-
DRAWING STEEL PILES	LINE FT	591	480
CLASS 2 EXCAVATION	CU YD	97	99

ILLINOIS DIVISION OF HIGHWAYS
SOUTHWEST EXPRESSWAY
LAWDALE AVE. OVER I-55
PIERS 2 AND 6

DE LOW, CATHER & CO. ENGINEERS
DESIGNED BY: F. S. BERNARDINI
DRAWN BY: J. S. BERNARDINI
CHECKED BY: J. S. BERNARDINI
IN CHARGE: J. S. BERNARDINI
APPROVED: J. S. BERNARDINI



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

FILE NAME	USER NAME	DESIGNED	REVISIONS
0161510.60W77.047_Existing_Plans_4.dgn	ksnyder	KMS	
		JHG	
		KMS	
		JHG	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS (4 OF 8)
STRUCTURE NO. 016-1510
SHEET NO. S4X4 OF S4X8 SHEETS

FOR INFORMATION ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	112

CONTRACT NO. 60W77
ILLINOIS FED. AID PROJECT

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