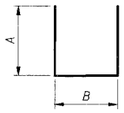
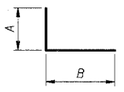
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	631	436
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

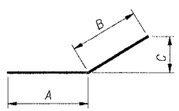
• (2425 & 2626) R-2 CONTRACT NO. 62111



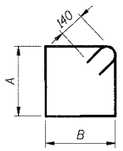
Bar	A (mm)	B (mm)
s91(E)	1470	860
s92(E)	2000	860
s93(E)	960	650
s94(E)	920	650
s95(E)	660	650
s96(E)	700	650
s97(E)	785	650
s98(E)	730	650
s99(E)	800	650
s100(E)	1110	800
s251(E)	1140	660
s252(E)	1060	660
s253(E)	970	660
s254(E)	920	660
t82(E)	400	1900
u81(E)	1110	910



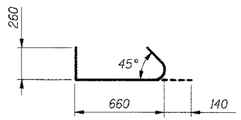
Bar	A (mm)	B (mm)
p251(E)	600	3690
p252(E)	500	2590



Bar	A (mm)	B (mm)	C (mm)
p253(E)	1700	1800	295
p254(E)	1700	1510	250
p256(E)	1410	1700	260
p257(E)	1400	1230	205



Bar	A (mm)	B (mm)
s81(E)	1290	650
s82(E)	1385	650
s83(E)	1305	650
s84(E)	1205	650
s87(E)	1195	650
s88(E)	1075	650
s89(E)	960	650
s90(E)	1090	650



Bar s255(E)

BAR LIST - PIER 1

Bar	No. I	No. IV	Size	Length (m)	Shape
h81(E)	8		#20	10.16	
h84(E)		8	#20	7.36	
h85(E)	24		#25	9.71	
h88(E)		24	#25	6.94	
p81(E)	6		#35	7.17	
p82(E)	6		#30	10.72	
p83(E)	6		#30	7.79	
p84(E)	6		#35	11.00	
p85(E)	12		#30	14.74	
p86(E)	6		#30	5.10	
p87(E)	6	6	#30	7.02	
p95(E)		6	#30	8.15	
p96(E)		6	#30	9.00	
p97(E)		12	#30	11.45	
p98(E)		6	#35	11.87	
p251(E)	12	6	#35	4.29	
p252(E)	12	12	#30	3.09	
p253(E)	6		#30	3.50	
p254(E)	6		#30	3.21	
p256(E)		6	#30	3.11	
s81(E)	22		#15	4.16	
s82(E)	42		#15	4.35	
s83(E)	42		#15	4.19	
s84(E)	20		#15	3.99	
s87(E)		36	#15	3.97	
s88(E)		38	#15	3.73	
s89(E)		20	#15	3.50	
s91(E)	60	41	#25	3.80	
s92(E)	60	41	#25	4.86	
s93(E)	32		#15	2.57	
s94(E)	28		#15	2.49	
s95(E)		4	#15	1.97	
s96(E)		8	#15	2.05	
s97(E)		20	#15	2.22	
s100(E)	10	10	#20	3.02	
s251(E)	24	18	#15	2.94	
s252(E)	24	18	#15	2.78	
s253(E)	16	12	#15	2.60	
s254(E)	8	6	#15	2.50	
s255(E)	36	27	#15	1.06	
t81(E)	41	29	#15	1.90	
t82(E)	61	43	#25	2.70	
u81(E)	6	6	#20	3.13	
v81(E)	64	48	#35	5.13	
w81(E)	22		#15	9.33	
w84(E)		22	#15	6.66	

BILL OF MATERIAL - PIER 1

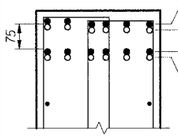
Item	Unit	I	IV	Total
Concrete Structures	Cu m	91.1	60.9	152.0
Reinforcement Bars, Epoxy Coated	kg	12,040	8,440	20,480
Structure Excavation	Cu m	90	63	153

BAR LIST - PIER 2

Bar	No. I	No. IV	Size	Length (m)	Shape
h81(E)	8		#20	10.16	
h84(E)		8	#20	7.36	
h85(E)	24		#25	9.71	
h88(E)		24	#25	6.94	
p81(E)	6		#35	7.17	
p82(E)	6		#30	10.72	
p83(E)	6		#30	7.79	
p84(E)	6	6	#35	11.00	
p85(E)	12		#30	14.74	
p86(E)	6		#30	5.10	
p87(E)	6	6	#30	7.02	
p95(E)		6	#30	8.15	
p96(E)		6	#30	9.00	
p97(E)		12	#30	11.45	
p99(E)		6	#30	8.52	
p251(E)	12	6	#35	4.29	
p252(E)	12	12	#30	3.09	
p253(E)	6		#30	3.50	
p254(E)	6		#30	3.21	
p257(E)		6	#30	2.63	
s81(E)	22		#15	4.16	
s82(E)	42		#15	4.35	
s83(E)	42		#15	4.19	
s84(E)	20		#15	3.99	
s87(E)		36	#15	3.97	
s89(E)		24	#15	3.50	
s90(E)		34	#15	3.76	
s91(E)	60	41	#25	3.80	
s92(E)	60	41	#25	4.86	
s93(E)	32		#15	2.57	
s94(E)	28		#15	2.49	
s98(E)		12	#15	2.11	
s99(E)		12	#15	2.25	
s100(E)	10	10	#20	3.02	
s251(E)	24	18	#15	2.94	
s252(E)	24	18	#15	2.78	
s253(E)	16	12	#15	2.60	
s254(E)	8	6	#15	2.50	
s255(E)	36	27	#15	1.06	
t81(E)	41	29	#15	1.90	
t82(E)	61	43	#25	2.70	
u81(E)	6	6	#20	3.13	
v81(E)	64	48	#35	5.13	
w81(E)	22		#15	9.33	
w84(E)		22	#15	6.66	

BILL OF MATERIAL - PIER 2

Item	Unit	I	IV	Total
Concrete Structures	Cu m	91.0	60.5	151.5
Reinforcement Bars, Epoxy Coated	kg	12,040	8,640	20,680
Structure Excavation	Cu m	87	61	148



DETAIL 1

Notes:
1. p81(E), p82(E), p84(E), p87(E), p88(E), p89(E), p92(E) and p98(E) bars shall be placed level (horizontally).
2. See pier elevation sheets RS-56 thru RS-63 for location and number of p(E) bars.

Legend:
- ● Straight bars
- ○ Hooked bars

Notes:
1. All dimensions are in millimeters (mm) except as noted.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. See Sht. RS-66 for Bar Splicer details and Bill of Material.

THIS SHEET FOR INFORMATION ONLY

SHT. RS-64 OF 70

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)
EB & WB INSIDE LANES (MAINLINE) CONSTRUCTION
I-80/94 OVER RAILROAD AVENUE
STRUCTURE NO. 016-2792 STA. 6+025.000
SECTION 1977-121-R
COOK COUNTY

PIER 1 & 2 BAR LIST & BILL OF MATERIAL - I & IV

DATE: 7/18/2005 DRAWN BY: FD CHECKED BY: TCU

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

BAJZEKKJ
\\PPBW72A.DGN, \\A99502A.DGN, \\P99R02A.DGN
7-7-2005 10:26:02 F:\DOCUMENTS\ESPSOLS\PROJECTS\DGN\PW173\72A.DGN
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