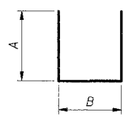
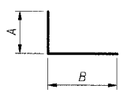
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	*	COOK	631	497
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

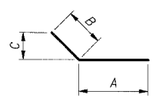
* (2425 & 2626) R-2 CONTRACT NO. 62111



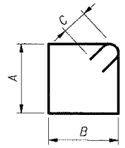
Bar	A (mm)	B (mm)
s31(E)	1520	760
s32(E)	1110	710
s34(E)	970	560
s35(E)	1120	560
s36(E)	730	500
s41(E)	2050	760
s46(E)	820	500
s47(E)	760	500
s48(E)	950	500
t32(E)	400	1900
u31(E)	1680	770
u32(E)	1110	770



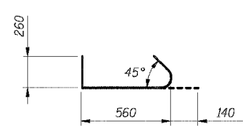
Bar	A (mm)	B (mm)
p40(E)	500	2590



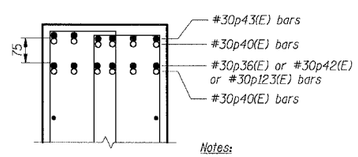
Bar	A (mm)	B (mm)	C (mm)
p34(E)	1090	1000	300
p45(E)	1090	1500	300
p126(E)	1090	530	300



Bar	A (mm)	B (mm)	C (mm)
s33(E)	910	560	140
s39(E)	1240	500	140
s43(E)	1350	500	140
s44(E)	1430	500	140
s45(E)	1100	500	140



Bar s42(E)



DETAIL 2

Notes:

1. p36(E), p42(E), p43(E), and p123(E) bars shall be placed level (horizontally).
2. See pier elevation Shts. BS-47 thru BS-49 and BS-51 thru BS-53 for location and number of p(E) bars.

Legend:

● Straight bars
○ Hooked bars

PIER 1 BAR LIST

Bar	No. II	No. III	No. IV	Size	Length (m)	Shape
h34(E)	12			#20	9.75	
h35(E)	28			#25	10.11	
h36(E)		6		#20	14.76	
h37(E)		14		#25	14.76	
h38(E)			4	#20	13.88	
h39(E)			14	#25	12.75	
h41(E)			2	#20	3.40	
p32(E)		6		#30	10.12	
p34(E)			6	#30	2.09	
p36(E)			6	#30	4.00	
p40(E)	12	12	12	#30	3.09	
p42(E)	6	6		#30	8.25	
p43(E)	6	6	6	#30	9.60	
p44(E)	12		6	#30	12.17	
p45(E)	6	6		#30	2.59	
p46(E)	12	6		#30	4.10	
p47(E)	6			#30	10.85	
p48(E)	12	6	6	#30	7.17	
p49(E)	6			#30	2.60	
p121(E)		12		#30	13.25	
p122(E)			6	#30	2.17	
p124(E)	6			#30	11.45	
p125(E)		6		#30	2.40	
p127(E)			12	#30	12.90	
s31(E)	62	50	44	#25	3.80	
s32(E)	6	6	6	#20	2.93	
s33(E)	4	3	3	#15	3.22	
s34(E)	24	18	18	#15	2.50	
s35(E)	56	42	42	#15	2.80	
s36(E)			12	#15	1.96	
s39(E)	22	20	40	#15	3.76	
s41(E)	62	50	44	#25	4.86	
s42(E)	44	33	33	#15	0.96	
s43(E)	88	62	18	#15	3.98	
s44(E)	22	20		#15	4.14	
s45(E)			40	#15	3.48	
s46(E)			16	#15	2.14	
s48(E)	36	36		#15	2.40	
t31(E)	42	34	30	#15	1.90	
t32(E)	62	50	44	#25	2.70	
u31(E)			4	#20	4.13	
u32(E)	4	4		#20	2.99	
v31(E)	64	48	48	#35	5.55	
w32(E)	22			#15	9.60	
w33(E)		11		#15	14.66	
w34(E)			11	#15	13.00	

BILL OF MATERIAL

Item	Unit	Stage 2	Stage 3	Stage 4	Total
Concrete Structures	Cu m	86.5	69.1	60.8	216.4
Reinforcement Bars, Epoxy Coated	kg	12,100	9,390	8,550	30,040
Structure Excavation	Cu m	80	64	49	193

PIER 2 BAR LIST

Bar	No. II	No. III	No. IV	Size	Length (m)	Shape
h34(E)	12			#20	9.75	
h35(E)	28			#25	10.11	
h36(E)		6		#20	14.76	
h37(E)		14		#25	14.76	
h39(E)			14	#25	12.75	
h40(E)			4	#20	13.40	
h41(E)			2	#20	3.40	
p32(E)		6		#30	10.12	
p40(E)	12	12	12	#30	3.09	
p42(E)	6	6		#30	8.25	
p43(E)	6	6	6	#30	9.60	
p44(E)	12			#30	12.17	
p45(E)	6	6		#30	2.59	
p46(E)	12	6		#30	4.10	
p47(E)	6			#30	10.85	
p48(E)	12	6	6	#30	7.17	
p49(E)	6			#30	2.60	
p121(E)		12		#30	13.25	
p122(E)			6	#30	2.17	
p123(E)			6	#30	4.82	
p124(E)	6		6	#30	11.45	
p125(E)		6		#30	2.40	
p126(E)			6	#30	1.62	
p127(E)			12	#30	12.90	
s31(E)	62	50	44	#25	3.80	
s32(E)	6	6	6	#20	2.93	
s33(E)	4	3	3	#15	3.22	
s34(E)	24	18	18	#15	2.50	
s35(E)	56	42	42	#15	2.80	
s39(E)	22	20	40	#15	3.76	
s41(E)	62	50	44	#25	4.86	
s42(E)	44	33	33	#15	0.96	
s43(E)	88	62	18	#15	3.98	
s44(E)	22	20		#15	4.14	
s45(E)			34	#15	3.48	
s46(E)			24	#15	2.14	
s47(E)			8	#15	2.02	
s48(E)	36	36		#15	2.40	
t31(E)	42	34	30	#15	1.90	
t32(E)	62	50	44	#25	2.70	
u31(E)			4	#20	4.13	
u32(E)	4	4		#20	2.99	
v31(E)	64	48	48	#35	5.55	
w32(E)	22			#15	9.60	
w33(E)		11		#15	14.66	
w34(E)			11	#15	13.00	

BILL OF MATERIAL

Item	Unit	Stage 2	Stage 3	Stage 4	Total
Concrete Structures	Cu m	86.4	69.0	60.2	215.7
Reinforcement Bars, Epoxy Coated	kg	12,100	9,390	8,520	30,010
Structure Excavation	Cu m	98	79	49	226

Notes:

1. All dimensions are in millimeters (mm) except as noted.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. See Sht. BS-56 for Bar Splicer details and Bill of Material.
4. Work this sheet with Shts. BS-47 thru BS-49 and BS-51 thru BS-53.

SHT. BS-55 OF 60

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 BURNHAM AVENUE
STRUCTURE NO. 016-2791 STA. 6+772.591
SECTION 1977-121-R
COOK COUNTY

PIER 1 & 2 BAR LIST & BILL OF MATERIAL - II, III & IV

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

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

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