

**SOUTH ABUTMENT - BAR LIST**

Bar	No.		Size	Length	Shape
	Stage I	Stage II			
d101(E)	58	60	#5	3'-0"	┌───┐
d102(E)	58	60	#4	3'-0"	┌───┐
d103(E)	58	60	#5	7'-5"	┌───┐
e101(E)	2		#5	4'-4"	┌───┐
e102(E)	2		#8	4'-4"	┌───┐
e103(E)	6		#4	4'-4"	┌───┐
e104(E)	2		#5	23'-0"	┌───┐
e105(E)	2		#8	24'-6"	┌───┐
e106(E)	6		#4	22'-5"	┌───┐
e107(E)	2		#5	26'-0"	┌───┐
e108(E)	2		#8	26'-0"	┌───┐
e109(E)	6		#4	26'-0"	┌───┐
e110(E)		2	#5	6'-7"	┌───┐
e111(E)		2	#8	6'-7"	┌───┐
e112(E)	6		#4	6'-7"	┌───┐
e113(E)	2		#5	29'-8"	┌───┐
e114(E)	2		#8	29'-8"	┌───┐
e115(E)	6		#4	29'-8"	┌───┐
e116(E)	2		#5	16'-6"	┌───┐
e117(E)	2		#8	16'-6"	┌───┐
e118(E)		6	#4	16'-6"	┌───┐
h101(E)	56		#5	23'-6"	┌───┐
h102(E)	30		#5	21'-3"	┌───┐
h103(E)	2		#5	21'-10"	┌───┐
h104(E)	2		#5	27'-6"	┌───┐
h105(E)	7		#5	11'-6"	┌───┐
h106(E)	16		#5	8'-0"	┌───┐
h107(E)	16		#5	9'-6"	┌───┐
h108(E)	5	54	#5	16'-6"	┌───┐
h109(E)	5		#5	17'-9"	┌───┐
h110(E)	16		#5	24'-0"	┌───┐
h111(E)	20		#6	24'-6"	┌───┐
h112(E)		76	#5	24'-9"	┌───┐
h113(E)		20	#5	19'-9"	┌───┐
h114(E)		42	#5	31'-10"	┌───┐
h115(E)	2		#5	28'-0"	┌───┐
h116(E)	7		#5	11'-8"	┌───┐
h117(E)	4		#5	22'-9"	┌───┐
h118(E)	2		#5	26'-0"	┌───┐
h119(E)	7		#5	10'-2"	┌───┐
h120(E)	10		#5	6'-0"	┌───┐
h121(E)	5		#6	31'-10"	┌───┐
h122(E)	10		#6	24'-0"	┌───┐
h123(E)	24		#5	6'-0"	┌───┐
h124(E)	24		#5	17'-6"	┌───┐
h125(E)	4		#5	12'-4"	┌───┐
h126(E)	6		#5	4'-3"	┌───┐
h127(E)	2		#5	3'-4"	┌───┐
h128(E)	4		#5	6'-7"	┌───┐
h129(E)	8		#5	16'-0"	┌───┐
h130(E)	14		#5	10'-0"	┌───┐
h131(E)		56	#5	29'-8"	┌───┐
h132(E)		32	#5	5'-7"	┌───┐
h133(E)		24	#5	5'-0"	┌───┐
h134(E)	4	8	#5	4'-9"	┌───┐
h135(E)	8		#5	4'-11"	┌───┐
n101(E)	30	43	#9	13'-10"	┌───┐
n102(E)	24		#9	12'-8"	┌───┐
n103(E)	11		#9	12'-10"	┌───┐
n104(E)	37		#9	11'-4"	┌───┐
n105(E)		52	#10	16'-7"	┌───┐
n106(E)		63	#10	15'-7"	┌───┐
n107(E)	52	102	#5	3'-6"	┌───┐
n108(E)	21	18	#5	4'-0"	┌───┐
n109(E)	27	31	#5	4'-6"	┌───┐

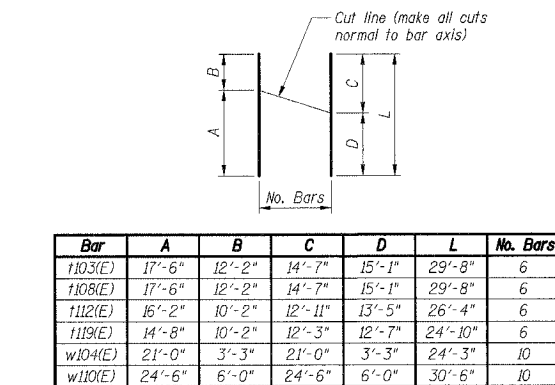
**SOUTH ABUTMENT - BAR LIST**

Bar	No.		Size	Length	Shape
	Stage I	Stage II			
t101(E)	23		#8	15'-8"	┌───┐
t103(E)	6		#6	29'-8"	┌───┐
t104(E)	5		#6	12'-2"	┌───┐
t105(E)	37		#6	10'-2"	┌───┐
t106(E)	23		#9	15'-8"	┌───┐
t108(E)	6		#7	29'-8"	┌───┐
t109(E)	5		#7	12'-2"	┌───┐
t110(E)	37		#8	10'-2"	┌───┐
t111(E)		125	#8	16'-8"	┌───┐
t112(E)	6		#8	26'-4"	┌───┐
t115(E)	43		#9	16'-8"	┌───┐
t116(E)	22		#10	24'-0"	┌───┐
t117(E)	22		#10	19'-0"	┌───┐
t118(E)	12		#10	14'-0"	┌───┐
t119(E)	6		#10	24'-10"	┌───┐
t120(E)	12		#10	17'-0"	┌───┐
t121(E)	14		#10	19'-6"	┌───┐
t122(E)	14		#10	21'-6"	┌───┐
t123(E)	14		#8	24'-0"	┌───┐
u101(E)	13	4	#5	11'-3"	┌───┐
u102(E)	16	16	#5	12'-1"	┌───┐
u103(E)	13	13	#5	12'-11"	┌───┐
u104(E)	4		#5	10'-6"	┌───┐
u105(E)		16	#5	11'-4"	┌───┐
u106(E)		16	#5	12'-3"	┌───┐
u107(E)	4		#5	13'-1"	┌───┐
u108(E)		11	#5	10'-0"	┌───┐
u109(E)	22		#5	8'-1"	┌───┐
u110(E)	4		#5	7'-2"	┌───┐
u111(E)		9	#5	9'-1"	┌───┐
u112(E)		8	#5	8'-7"	┌───┐
u113(E)		4	#5	7'-7"	┌───┐
v101(E)	24		#7	10'-7"	┌───┐
v102(E)	30		#6	10'-4"	┌───┐
v103(E)	13	4	#5	17'-2"	┌───┐
v104(E)	10		#5	16'-4"	┌───┐
v105(E)	6		#5	15'-7"	┌───┐
v106(E)	21		#5	14'-9"	┌───┐
v107(E)	42	80	#5	6'-6"	┌───┐
v108(E)	46	73	#5	5'-8"	┌───┐
v109(E)	46	75	#5	2'-6"	┌───┐
v110(E)	44	78	#5	3'-8"	┌───┐
v111(E)		70	#7	16'-6"	┌───┐
v112(E)	10		#7	9'-0"	┌───┐
v113(E)	37	43	#6	12'-0"	┌───┐
v114(E)	10		#5	10'-6"	┌───┐
v115(E)	10		#5	19'-0"	┌───┐
v116(E)	10	4	#5	15'-9"	┌───┐
v117(E)	27		#5	15'-0"	┌───┐
v118(E)		52	#7	14'-9"	┌───┐
v119(E)	27		#5	22'-8"	┌───┐
v120(E)	16		#5	21'-10"	┌───┐
v121(E)	16		#5	20'-11"	┌───┐
v122(E)	5		#5	20'-1"	┌───┐
v123(E)	14		#5	18'-10"	┌───┐
v124(E)	16		#5	18'-0"	┌───┐
v125(E)	31		#5	26'-9"	┌───┐
v126(E)	18		#5	26'-2"	┌───┐
v127(E)	5	23	#5	10'-0"	┌───┐
v128(E)		41	#5	11'-0"	┌───┐
v129(E)	7	8	#5	7'-0"	┌───┐

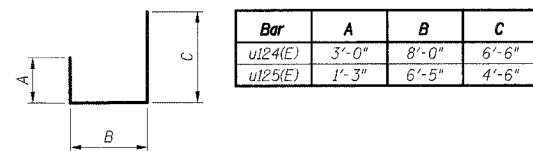
**SOUTH ABUTMENT - BAR LIST**

Bar	No.		Size	Length	Shape
	Stage I	Stage II			
w101(E)	22	36	#5	31'-10"	┌───┐
w102(E)	50		#5	16'-0"	┌───┐
w103(E)	12		#5	22'-10"	┌───┐
w104(E)	10		#5	24'-3"	┌───┐
w105(E)	44		#5	19'-6"	┌───┐
w106(E)		68	#5	26'-0"	┌───┐
w107(E)		72	#5	29'-0"	┌───┐
w108(E)	4		#5	33'-0"	┌───┐
w109(E)	10		#5	17'-0"	┌───┐
w110(E)	10		#5	30'-6"	┌───┐
w111(E)	2		#5	25'-3"	┌───┐
w112(E)	26		#5	11'-9"	┌───┐
w113(E)	18	18	#5	6'-0"	┌───┐
w114(E)		18	#5	6'-0"	┌───┐

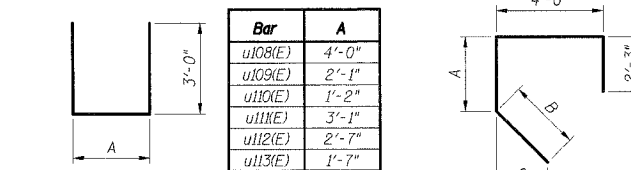
**BAR CUTTING DIAGRAM**



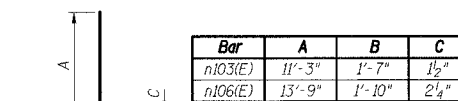
Bars t103(E), t108(E), t112(E), t119(E), w104(E) & w110(E)



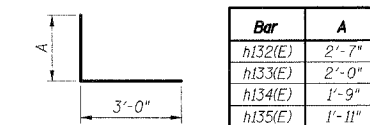
Bars u124(E) & u125(E)



Bars u108(E) thru u113(E)



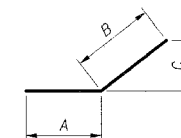
Bars n103(E) & n106(E)



Bars h132(E) thru h135(E)

Bar	A	B
d101(E)	2'-6"	6"
d102(E)	2'-6"	6"
h127(E)	2'-6"	10"
n101(E)	12'-3"	1'-7"
n102(E)	11'-1"	1'-7"
n104(E)	9'-9"	1'-7"
n105(E)	14'-9"	1'-10"
w114(E)	3'-0"	3'-0"

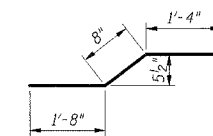
Bars d101(E), d102(E), h127(E), n101(E), n102(E), n104(E), n105(E) & w114(E)



Bar d103(E)

Bar	A	B	C
h107(E)	6'-6"	3'-0"	1'-3 1/2"
h123(E)	3'-0"	3'-0"	2'-7 1/2"
h126(E)	3'-0"	1'-3"	1'-1"
w113(E)	3'-0"	3'-0"	2'-1 1/2"

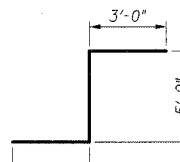
Bars h107(E), h123(E), h126 & w113(E)



Bar v110(E)

Bar	A	B	C
u101(E)	1'-9"	3'-3"	2'-3 1/2"
u102(E)	2'-7"	3'-3"	2'-3 1/2"
u103(E)	3'-5"	3'-3"	2'-3 1/2"
u104(E)	1'-9"	2'-6"	1'-9 1/4"
u105(E)	2'-7"	2'-6"	1'-9 1/4"
u106(E)	3'-6"	2'-6"	1'-9 1/4"
u107(E)	4'-4"	2'-6"	1'-9 1/4"

Bars u101(E) thru u107(E)



Bar w112(E)

**BILL OF MATERIAL**

Item	Unit	Stage I	Stage II	Total
Concrete Structures	Cu yd	279	651	930
Reinforcement Bars, Epoxy Coated	lb	23,250	56,670	79,920
Protective Coat	Sq yd			393
Bridge Seat Sealer	Sq ft			308
Structure Excavation	Cu yd			1,987
Geocomposite Wall Drain	Sq yd			529
Porous Granular Embankment (Special)	Cu yd			614
Pipe Underdrains For Structure 6"	Ft			289
Sub-base Granular Material, Type C 6"	Sq yd			361

SHT. S-029

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. ROUTE 57 (INTERSTATE 57)  
 I-57 NB OVER WB CONNECTOR  
 SN 016-0072 OLD, SN 016-2852 NEW  
 STA. 238+73.54  
 COOK COUNTY, SECTION (1516.1, 1717, & 1818) R-4  
 SOUTH ABUTMENT DETAILS II  
 & BILL OF MATERIAL

DATE: 03/07/06

DRAWN BY: HBJ  
 CHECKED BY: TCU

**TENG**

TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 208 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE: 312.411.0000

- Notes:**
1. Reinforcement bars designated (E) shall be epoxy coated.
  2. Work this Sht. with Shts. S-021 thru S-028.

I:\AS\00758.DWG - BRIDGE.DWG, A:\BROWER\BROWER.DWG, A:\BROWER\BROWER.DWG, A:\BROWER\BROWER.DWG, A:\BROWER\BROWER.DWG, A:\BROWER\