PHASE IV (3)

SUPERSTRUCTURE - REGULAR

BAR	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH
A502	DIAPHRAGM	5	72					44'-4"
A503	DIAPHRAGM	5	12					45'-2"
A550	DIAPHRAGM	5	96					4'-0"
A600	DIAPHRAGM	6	30					2'-2"
A601	DIAPHRAGM	6	30					2'-4"
HA540	DIAPHRAGM	5	60	3'-1"	2'-0"	1'-4"		6'-5"
L400	DIAPHRAGM	4	300	1'-2"	1'-11"	1'-0"		7'-2"
L401	DIAPHRAGM	4	50	1'-2"	2'-2"	1'-0"		7'-8"
L402	DIAPHRAGM	4	50	1'-2"	2'-0"	1'-0"		7'-4"
LS400	DIAPHRAGM	4	140	1'-4"	1'-4"	1'-0"		7'-4"

SUPERSTRUCTURE - EPOXY

A400E	SLAB (TOP)	4	60					54'-8"
A401E	SLAB (TOP)	4	84					53'-6"
A500E	SLAB (BOTTOM)	5	220					55'-1"
A501E	SLAB (BOTTOM)	5	308					53'-11"
A502E	COUPLER BARS (SLAB)	5	3,296					4'-0"
SERIES A510E	SLAB (TOP & BOTTOM)	5	4	DIM "A" VARIES FROM 3'-5" TO 33'-9" IN INC. OF 10¾" (35 BARS)				650'-5"
A511E	SLAB (TOP & BOTTOM)	5	3016					34'-8"
SERIES A512E	SLAB (TOP & BOTTOM)	5	2	DIM "A" VARIES FROM 3'-7" TO 34'-0" IN INC. OF 10¾" (35 BARS)				657'-9"
SERIES A513E	SLAB (TOP & BOTTOM)	5	2	DIM "A" VARIES FROM 3'-2" TO 34'-5" IN INC. OF 10¾" (36 BARS)				676'-6"
A519E	SLAB (TOP & BOTTOM)	5	64					6'-8"
SERIES A520E	SLAB (TOP & BOTTOM)	5	4	DIM "A" VARIES FROM 3'-6" TO 33'-10" IN INC. OF 10¾" (35 BARS)				653'-4"
SERIES A521E	SLAB (TOP & BOTTOM)	5	2	DIM "A" VARIES FROM 3'-8" TO 34'-1" IN INC. OF 10¾" (35 BARS)				660'-8"
SERIES A522E	SLAB (TOP & BOTTOM)	5	2	DIM "A" VARIES FROM 4'-2" TO 34'-7" IN INC. OF 10¾" (35 BARS)				678'-2"
A900E	SLAB (TOP)	9	230					58'-9"
A901E	SLAB (TOP)	9	322					57'-11"
A902E	SLAB (TOP)	9	216					27'-11"
A903E	SLAB (TOP)	9	108					25'-1"
A904E	SLAB (TOP)	9	108					23'-7"
A905E	SLAB (TOP)	9	108					24'-11"
A906E	SLAB (TOP)	9	108					25'-11"
B570E	PARAPET	5	3,768	2'-8"				3'-3"

PHASE IV (1) (2) (3)

ABUTMENT NO. 1 - REGULAR

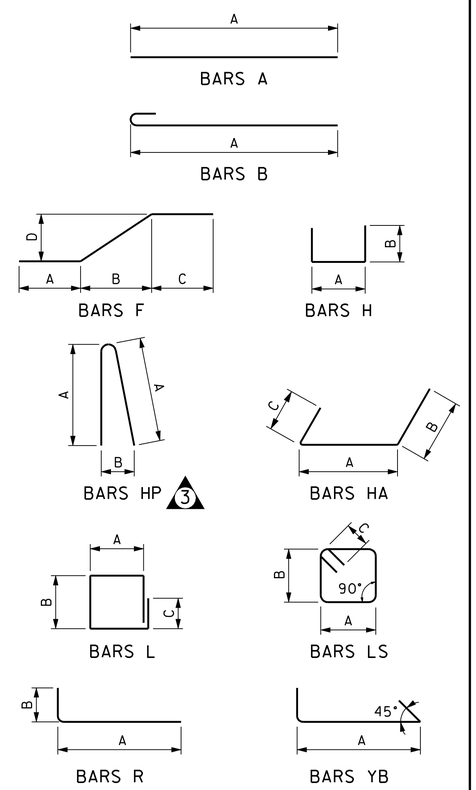
BAR	LOCATION	SIZE	NO. REQ'D.	BENDING DIMENSIONS A	B	C	D	LENGTH
A401	ROADWAY BRACKET	4	1					40'-2"
A402	ROADWAY BRACKET	4	1					40'-1"
A440	WINGWALL	4	16					2'-10"
A441	WINGWALL	4	4					17'-6"
A442	WINGWALL	4	17					3'-2"
A443	WINGWALL	4	4					17'-6"
A542	ABUTMENT BEAM	5	8					43'-2"
A543	WINGWALL FOOTING	5	8					20'-4"
A544	ABUTMENT BEAM	5	8					43'-1"
A545	WINGWALL FOOTING	5	8					20'-4"
A604	ENDWALL	6	6					42'-2"
A605	ENDWALL / ABUTMENT BEAM	6	8					3'-7"
A606	ENDWALL	6	6					42'-2"
A742	ABUTMENT BEAM	7	10					43'-2"
A743	WINGWALL FOOTING	7	10					20'-4"
A744	ABUTMENT BEAM	7	10					43'-1"
A745	WINGWALL FOOTING	7	10					20'-4"
H540	ROADWAY BRACKET / ENDWALL	5	80	2'-2"	5"			3'-0"
H640	ENDWALL / BEAM CAP	6	116	1'-2"	3'-7"			8'-4"
HA640	ENDWALL	6	40	3'-1"	2'-0"	1'-4"		6'-5"
L540	ABUTMENT BEAM/WINGWALL FTG.	5	62	2'-10"	7'-3"	1'-0"		17'-0"
L541	ABUTMENT BEAM/WINGWALL FTG.	5	18	2'-8"	4'-9"	1'-0"		11'-8"
L542	ABUTMENT BEAM/WINGWALL FTG.	5	10	2'-10"	4'-9"	1'-0"		12'-0"
SERIES L543	ABUTMENT BEAM	5	1	2'-10"		1'-0"		583'-5"
				DIM "B" VARIES FROM 4'-9" TO 5'-9" IN INC. OF ⅜" (34 BARS)				
YB500	ABUTMENT BEAM	5	140	2'-10"				4'-4"
YB501	WINGWALL FOOTING	5	66	2'-8"				4'-2"
ABUTMENT NO. 1 - EPOXY								
A450E	COUPLER BAR	4	2					2'-6"
A550E	COUPLER BAR	5	12					4'-0"
A600E	ENDWALL	6	15					3'-2"
SERIES A604E	ENDWALL	6	2	DIM "A" VARIES FROM 2'-11" TO 3'-1" IN INC. OF ⅜" (5 BARS)				15'-0"
A605E	ENDWALL	6	72					3'-1"
A606E	ENDWALL	6	2					42'-2"
A607E	ENDWALL	6	4					2'-11"
A608E	WINGWALL	6	4					17'-6"
A609E	ENDWALL	6	82					3'-2"
A610E	ENDWALL	6	2					42'-2"
A611E	ENDWALL	6	4					3'-2"
A612E	WINGWALL	6	4					17'-6"
A613E	ENDWALL	6	15					2'-10"
A650E	COUPLER BAR	6	16					5'-8"
A670E	WINGWALL	6	16					3'-2"
A671E	WINGWALL	6	17					2'-11"
A750E	COUPLER BAR	7	20					6'-6"
B570E	WINGWALL / BRIDGERAIL	5	74	2'-8"				3'-3"
B640E	ENDWALL	6	8	5'-8'				6'-4"
F640E	ENDWALL / P.A.B.E.	6	86	1'-1"	1'-3"	1'-1"	1'-3"	3'-11"
HP570E	WINGWALL / BRIDGERAIL	5	16	3'-11"	11"			8'-5"
R640E	ENDWALL / SLAB	6	82	2'-0"	2'-0"			4'-0"

CONST. NO. BR-I-40-3(155)

PROJECT NO.	YEAR	SHEET NO.
11003-3134-94	2014	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
1	02-05-13	DWT	REVISED QUANTITIES
2	04-26-13	DWT	ADDED BARS F640E, YB500 AND YB501.
			REVISED BAR B570E QUANTITY
3	11-06-13	DWT	REVISED QUANTITIES AND ADDED
			BAR HP570E AND BAR A503



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BILL OF STEEL
(PHASE IV)

BRIDGE NO. 11-10040-05.63 (EB & WB)
INTERSTATE 40 OVER HARPETH RIVER
CHEATHAM COUNTY
2014

DESIGNED BY D. JAMES/D. THOMPSON DATE
DRAWN BY ANGELA MOORE DATE
SUPERVISED BY D. JAMES/D. THOMPSON DATE
CHECKED BY JAMIE GILLESPIE DATE

JAMES & ASSOCIATES, INC.

BR-113-62