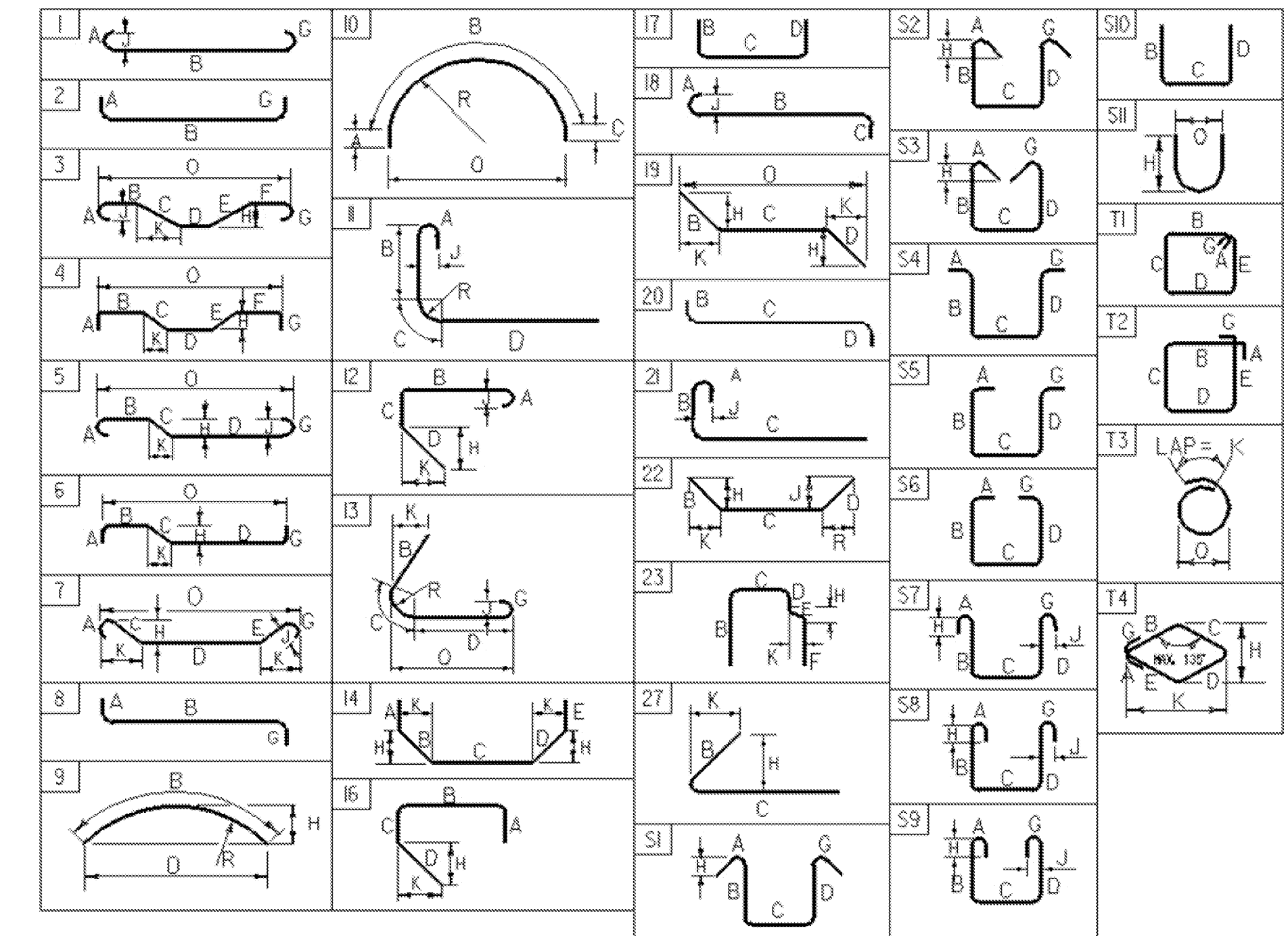


REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O	ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O				
ABUTMENT NO.1																																							
6	5	15'-3"	1EA501	STR																																			
6	5	13'-9"	1EA502	STR																																			
32	5	4'-6"	1EA503	STR																																			
16	5	3'-0"	1EA504	S10			1'-3"	0'-6"	1'-3"																														
5	5	10'-0"	1EA505	S10			4'-3"	1'-6"	4'-3"																														
3	5	10'-5"	1EA506	S10			4'-6"	1'-5"	4'-6"																														
▲	16	5	5'-0"	1EA507	STR																																		
7	5	8'-3"	1EA508	S10			2'-6"	3'-3"	2'-6"																														
8	5	5'-9"	1EA509	STR																																			
8	5	6'-3"	1EA510	S10			2'-6"	1'-3"	2'-6"																														
6	5	6'-6"	1EA511	STR																																			
24	5	6'-1"	1EA512	20			2'-2"	1'-9"	2'-2"																														
6	5	15'-9"	1EA513	STR																																			
ABUTMENT NO.2																																							
5	5	15'-3"	2EA501	STR																																			
5	5	13'-9"	2EA502	STR																																			
40	5	3'-7"	2EA503	STR																																			
20	5	3'-0"	2EA504	S10			1'-3"	0'-6"	1'-3"																														
6	5	8'-0"	2EA505	S10			3'-3"	1'-6"	3'-3"																														
3	5	12'-5"	2EA506	S10			5'-6"	1'-5"	5'-6"																														
▲	16	5	6'-3"	2EA507	STR																																		
9	5	5'-0"	2EA508	S10			1'-7"	1'-10"	1'-7"																														
6	5	8'-3"	2EA509	STR																																			
9	5	4'-8"	2EA510	S10			1'-7"	1'-6"	1'-7"																														
6	5	8'-0"	2EA511	STR																																			
20	5	6'-9"	2EA512	20			2'-2"	2'-5"	2'-2"																														
7	5	15'-9"	2EA513	STR																																			
WINGWALL NO.1																																							
▲	12	5	12'-6"	1EW501	STR																																		
13	5	5'-7"	1EW502	1	0'-7"	5'-0"																																	
*	14	5	5'-0"	1EW503	STR																																		
32	5	8'-11"	1EW504	S10			8'-2"	0'-9"																															
16	5	3'-4"	1EW505	S10			1'-3"	0'-10"	1'-3"																														
14	5	4'-8"	1EW506	12			2'-6"	2'-2"																															
14	5	11'-6"	1EW507	STR									0'-4"		2'-1"																								
WINGWALL NO.2																																							
12	5	11'-6"	2EW501	STR																																			
13	5	5'-7"	2EW502	1	0'-7"	5'-0"																																	
13	5	5'-0"	2EW503	STR																																			
34	5	8'-11"	2EW504	S10			8'-2"	0'-9"																															
17	5	3'-4"	2EW505	S10			1'-3"	0'-10"	1'-3"																														
14	5	5'-8"	2EW506	S10			2'-2"	3'-6"																															
14	5	11'-6"	2EW507	STR																																			
6	8	3'-6"	2W801	STR																																			
WINGWALL NO.3A																																							
12	5	7'-6"	3AEW501	STR																																			
9	5	5'-7"	3AEW502	1	0'-7"	5'-0"																																	
* 10	5	5'-0"	3AEW503	STR																																			
22	5	7'-11"	3AEW504	S10			7'-2"	0'-9"																															
11	5	3'-4"	3AEW505	S10			1'-3"	0'-10"	1'-3"																														
12	5	4'-4"	3AEW506	S10			2'-2"	2'-2"																															
12	5	7'-6"	3AEW507	STR																																			
WINGWALL NO.4A																																							
12	5	7'-6"	4AEW501	STR																																			
9	5	5'-7"	4AEW502	1	0'-7"	5'-0"																																	
9	5	5'-0"	4AEW503	STR																																			
22	5	7'-11"	4AEW504	S10			7'-2"	0'-9"																															
11	5	3'-4"	4AEW505	S10			1'-3"	0'-10"	1'-3"																														
12	5	4'-4"	4AEW506	S10			2'-2"	2'-2"																															
12	5	7'-6"	4AEW507	STR																																			

~ NOTES ~

- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31 (ASTM A 615-S1). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
- FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
- BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
- "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
- "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
- ▲ DENOTES BARS TO BE CUT IN FIELD.
- * DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
- △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
- E IN BAR MARK PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS				
BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	AREA INCHES ²	PERIMETER INCHES
#3	0.376	0.375	0.11	1.178
#4	0.668	0.500	0.20	1.571
#5	1.043	0.625	0.31	1.963
#6	1.502	0.750	0.44	2.356
#7	2.044	0.875	0.60	2.749
#8	2.670	1.000	0.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

Hoyle, Tanner & Associates, Inc.

PROJECT NAME:	MONTGOMERY	PLOT DATE:	7/24/2008
PROJECT NUMBER:	BHO 1448(23)	DRAWN BY:	J.BICJA
FILE NAME:	Z96J302rein.xls	CHECKED BY:	S.T.JAMES
PROJECT MANAGER:	J.H.WEAVER	REINFORCING STEEL SCHEDULE SHEET	SHEET 44 OF 54
DESIGNED BY:	J.BICJA		