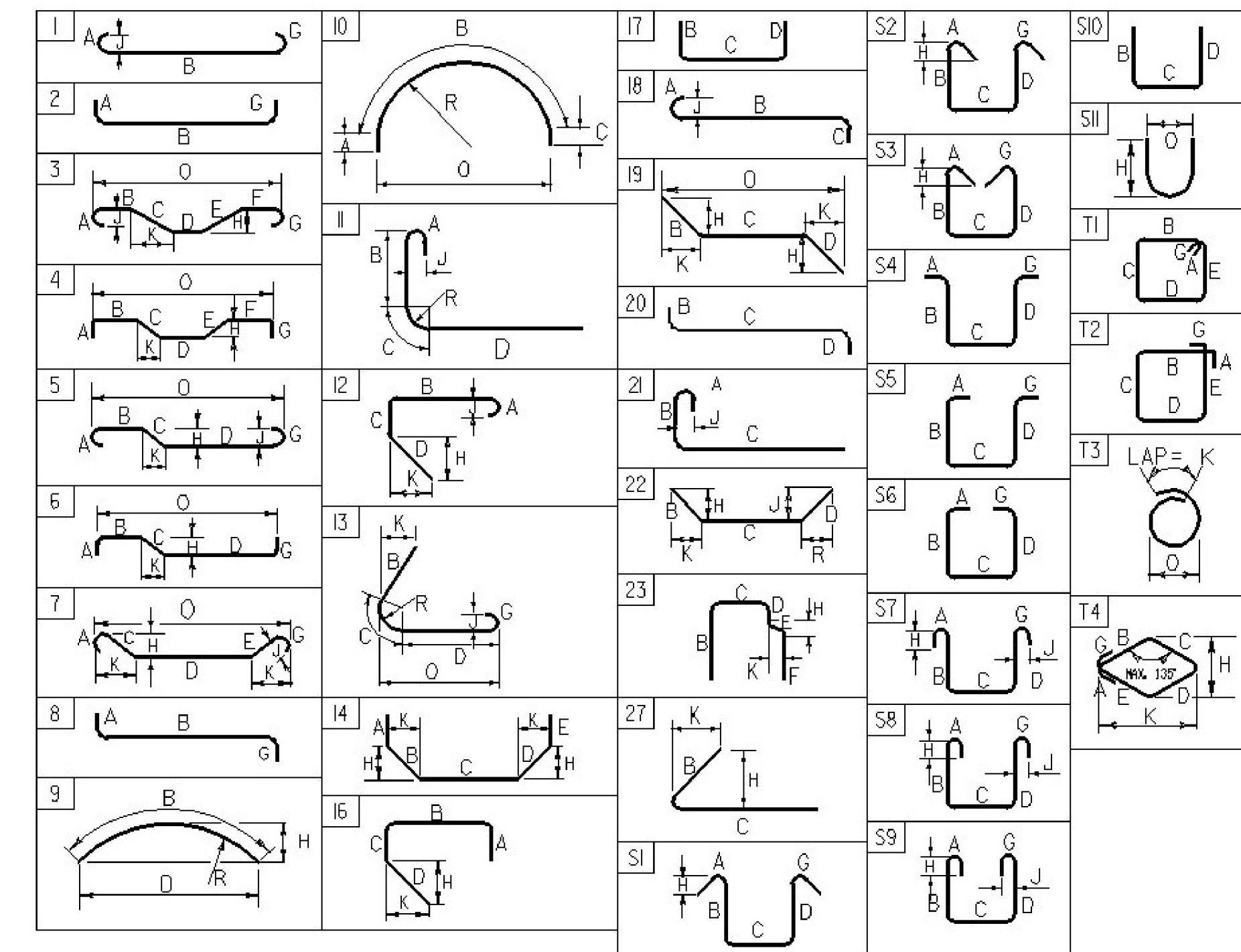


REINFORCING STEEL SCHEDULE

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																																							
*	14	5	35'-0"	1A501	STR																																		
	8	5	35'-0"	1A502	STR																																		
	16	5	7'-1"	1A503	STR																																		
	12	5	3'-0"	1A504	STR																																		
	37	5	15'-2"	1A550	T1	0'-5"	3'-2"	4'-2"	3'-2"	4'-2"							0'-5"																						
*	33	6	7'-2"	1A650	17		3'-7"	3'-7"	---																														
*	22	8	2'-0"	1A801	STR																																		
ABUTMENT NO. 2																																							
*	14	5	35'-0"	2A501	STR																																		
	8	5	35'-0"	2A502	STR																																		
	16	5	7'-1"	2A503	STR																																		
	12	5	3'-0"	2A504	STR																																		
	37	5	15'-2"	2A550	T1	0'-5"	3'-2"	4'-2"	3'-2"	4'-2"							0'-5"																						
*	33	6	7'-2"	2A650	17		3'-7"	3'-7"	---																														
*	22	8	2'-0"	2A801	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-S). 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

PROJECT NAME:	WARREN
PROJECT NUMBER:	BRF 013-4(32)
FILE NAME: z10b424reinf.xls	PLOT DATE: 10/3/2013
PROJECT MANAGER: R. YOUNG	DRAWN BY: P. DUSTIN
DESIGNED BY: D. KULL	CHECKED BY: T. KENDRICK
REINFORCING STEEL SCHEDULE	SHEET 28 OF 42