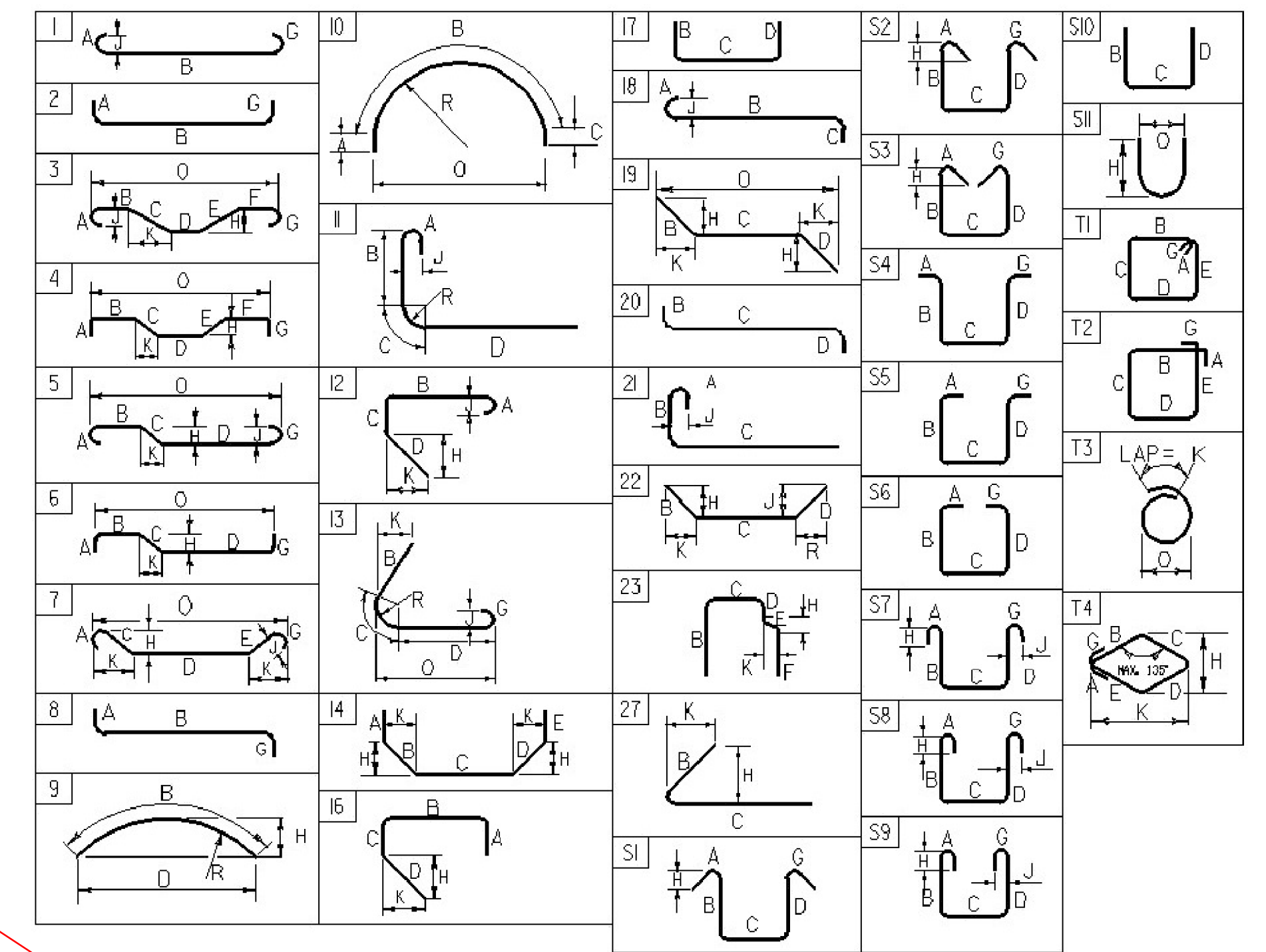


REINFORCING STEEL SCHEDULE

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
CONCRETE DECK OVERLAY																		ABUTMENT # 2																	
* 181	5	21'- 4"	S501.2	STR														* 24	5	23'- 10"	2A502	STR													
* 157	5	37'- 1"	S502.2	STR														* ▲ 7	5	5'- 1"	2A504	STR													
* 61	6	21'- 7"	S601.2	STR														139	5	7'- 4"	2A501	S10	2'- 7"	4'- 9"	---										
* 63	6	6'- 0"	S602.2	STR														47	5	6'- 11"	2A503	S10	2'- 2"	2'- 7"	2'- 2"										
▲ 234	7	5'- 4"	S701.2	STR														16	5	23'- 10"	2A503.2	STR													
APPROACH SLAB #1																		WINGWALL # 3																	
* 47	5	17'- 11"	1A501	STR														* 11	5	7'- 1"	3W501	STR													
* 40	9	20'- 9"	1A501	I	---	19'- 6"						1'- 3"		0'- 11"				13	5	8'- 7"	3W502	STR													
APPROACH SLAB #2																		WINGWALL #4																	
* 47	5	17'- 11"	2A501	STR														* 11	6	7'- 1"	3W601	STR													
* 40	9	20'- 9"	2A501	1	---	19'- 6"						1'- 3"		0'- 11"				8	5	5'- 11"	3W503	S10	2'- 2"	1'- 7"	2'- 2"										
ABUTMENT # 1																		RETAINING WALL																	
* ▲ 7	5	5'- 0"	1A504	STR														45	5	14'- 6"	R501	STR													
139	5	7'- 4"	1A501	S10	2'- 7"	4'- 9"	---											16	5	3'- 11"	R502	STR													
47	5	6'- 11"	1A503	S10	2'- 2"	2'- 7"	2'- 2"											* 33	5	13'- 7"	R503	STR													
▲ 8	5	3'- 8"	1A505.2	STR														* 17	9	10'- 0"	R901	STR													
76	5	5'- 2"	1A501.2	S10	4'- 4"	0'- 10"	---											16	5	5'- 5"	R504	S10	2'- 2"	1'- 1"	2'- 2"										
29	5	6'- 5"	1A502.2	S10	4'- 7"	1'- 10"	---											* 17	7	9'- 0"	R701	S10	5'- 11"	3'- 1"	---										
35	5	4'- 4"	1A504.2	1	0'- 7"	3'- 2"						0'- 7"		0'- 5"				ASTM STANDARD REINFORCING BARS																	
9	5	14'- 5"	1A506.2	S10	5'- 11"	2'- 7"	5'- 11"																												
WINGWALL #1																		REINFORCING STEEL CORROSION RESISTANCE LEVEL ~																	
* 11	5	8'- 7"	1W501	STR																															
17	5	8'- 6"	1W502	STR																															
* 11	6	8'- 7"	1W601	STR																															
10	5	5'- 11"	1W503	S10	2'- 2"	1'- 7"	2'- 2"																												
10	5	4'- 4"	1W504	27	2'- 2"	2'- 2"	---					1'- 3"	---	1'- 9"	---																				
6	5	10'- 8"	1W505	22	2'- 2"	6'- 4"	2'- 2"					1'- 3"	1'- 3"	1'- 9"	1'- 9"																				
* 11	6	7'- 4"	1W602	27	2'- 2"	5'- 2"						2'- 1"	---	0'- 9"	---																				
WINGWALL #2																																			
* 11	5	12'- 1"	2W501	STR																															
▲ 23	5	8'- 3"	2W502	STR																															
* 11	6	12'- 1"	2W601	STR																															
13	5	5'- 11"	2W503	S10	2'- 2"	1'- 7"	2'- 2"																												
10	5	4'- 4"	2W504	22	2'- 2"	2'- 2"	---					1'- 3"	---	1'- 9"	---																				
6	5	13'- 8"	2W505	22	2'- 2"	9'- 4"	2'- 2"					1'- 3"	1'- 3"	1'- 9"	1'- 9"																				
* 11	6	7'- 7"	2W602	22	2'- 2"	5'- 5"	0'- 0"					2'- 1"	---	0'- 9"	---																				

~ 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.



BAR SIZE	YIELD STRENGTH (ksi)	TENSILE STRENGTH (ksi)	ELONGATION (%)	WELDED EPOXY COATED (ksi)
#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	2.04	0.875	0.60	2.749
#8	2.670	1.000	0.79	3.14
#9	3.400	1.13	1.00	3.54
#10	4.3	1.270	1.27	3.990
#11	5.31	1.410	1.56	4.430
#14	7.65	1.69	2.25	5.32
#18	13.60	2.26	4.00	7.09

THE REINFORCING STEEL MARKS IN THIS SCHEDULE INDICATE THE REQUIRED BAR CORROSION RESISTANCE LEVEL. CORROSION RESISTANCE LEVEL IS DENOTED WITH A .2 FOR LEVEL TWO SUFFIX OR .3 FOR LEVEL THREE SUFFIX. .1 FOR LEVEL ONE IS TO BE OMITTED. THE BAR MATERIAL TYPE AND BAR STEEL GRADE PROVIDED FOR EACH CORROSION LEVEL WILL BE RECORDED ON THE PLAN SET P1 SHEET FOR AS-BUILT RECORD PLAN ARCHIVES.

SEE REVISION: OCT-28-2014

PROJECT NAME:	JOHNSON	PLOT DATE:	10-JUN-2014
PROJECT NUMBER:	BRF 030-2(26)	DRAWN BY:	G. ROKES
FILE NAME:	s88b193rss.xls	CHECKED BY:	H. SALLS
PROJECT MANAGER:	C. CARLSON	REINFORCING STEEL SCHEDULE	SHEET 38 OF 69