

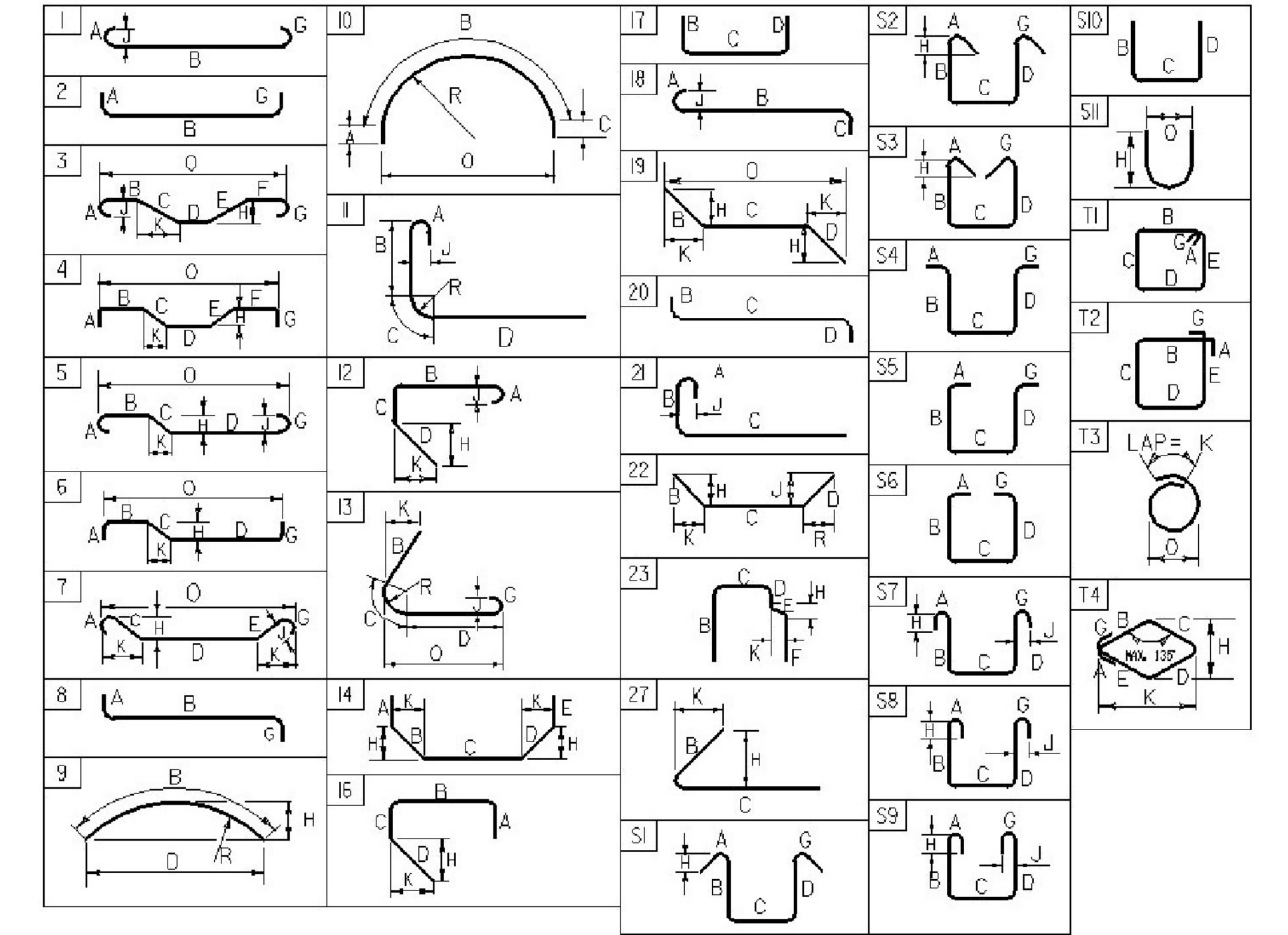
STATE OF VERMONT
AGENCY OF TRANSPORTATION

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
DECK																		ABUTMENT 2																	
83	5	36'-9"	S501.2	STR	36'-9"													28	5	23'-10"	2A501	STR	23'-10"												
* 21	5	23'-10"	S502.2	STR	23'-10"													▲ 47	5	7'-0"	2A502	STR	7'-0"	2'-7"	4'-5"	---									
72	5	24'-3"	S503.2	STR	24'-3"													43	5	6'-11"	2A503	S10	6'-11"	2'-2"	2'-7"	2'-2"									
24	5	24'-3"	S504.2	STR	24'-3"													10	6	12'-1"	2A601	19	12'-1"	2'-7"	9'-6"	---				2'-5"		0'-11"			
20	5	24'-3"	S505.2	STR	24'-3"													10	6	12'-1"	2A602	27	12'-1"	2'-7"	9'-6"	---				2'-5"		0'-11"			
136	5	4'-8"	S506.2	S5	0'-6"	0'-13"	1'-6"	0'-13"				0'-6"						▲ 43	7	7'-0"	2A702	17	7'-0"	2'-7"	4'-5"	---									
83	6	36'-9"	S601.2	STR	36'-9"													16	5	23'-10"	2A501.2	STR	23'-10"												
* 21	6	24'-0"	S602.2	STR	24'-0"													47	5	4'-11"	2A502.2	STR	4'-11"												
60	6	24'-5"	S603.2	STR	24'-5"													36	5	14'-5"	2A504.2	2	11'-3"	3'-2"					---						
APPROACH SLAB 1																		WINGWALL 3																	
* 24	5	33'-6"	1AS501	STR	33'-6"													* ▲ 7	5	13'-4"	3W502	STR	13'-4"												
* 40	9	20'-9"	1AS901	1	1'-3"	19'-6"												6	5	5'-11"	3W504	27	5'-11"	2'-2"	3'-9"	---			2'-0"		0'-9"				
△ 35	5	3'-9"	1AS502.2	1	0'-7"	3'-2"												* ▲ 7	6	13'-4"	3W602	STR	13'-4"												
APPROACH SLAB 2																		WINGWALL 4																	
23	5	33'-6"	2AS501	STR	33'-6"													* ▲ 16	5	8'-9"	3W501.2	STR	8'-9"												
39	9	20'-9"	2AS901	1	1'-3"	19'-6"												▲ 5	5	13'-4"	3W502.2	STR	13'-4"												
33	5	3'-9"	2AS502.2	1	0'-7"	3'-2"												11	5	5'-11"	3W503.2	S10	5'-11"	2'-2"	1'-7"	2'-2"									
ABUTMENT 1																		WINGWALL 1																	
28	5	23'-10"	1A501	STR	23'-10"													* ▲ 7	5	13'-4"	1W502	STR	13'-4"												
▲ 47	5	7'-4"	1A502	17	7'-4"	2'-7"	4'-9"	---										6	5	5'-11"	1W504	19	5'-11"	2'-2"	3'-9"	---			2'-0"		0'-9"				
43	5	6'-11"	1A503	S10	6'-11"	2'-2"	2'-7"	2'-2"										* ▲ 7	6	13'-4"	1W602	STR	13'-4"												
10	6	12'-1"	1A601	19	12'-1"	2'-7"	9'-6"	---					2'-5"		0'-11"			* ▲ 16	5	9'-0"	1W501.2	STR	9'-0"												
10	6	12'-1"	1A602	27	12'-1"	2'-7"	9'-6"	---					2'-5"		0'-11"			▲ 5	5	13'-4"	1W502.2	STR	13'-4"												
▲ 43	7	7'-4"	1A702	17	7'-4"	2'-7"	4'-9"	---										12	5	5'-11"	1W503.2	S10	5'-11"	2'-2"	1'-7"	2'-2"									
16	5	23'-10"	1A501.2	STR	23'-10"													5	5	5'-11"	1W504.2	19	5'-11"	2'-2"	3'-9"	---			2'-0"		0'-9"				
47	5	4'-11"	1A502.2	STR	4'-11"													* ▲ 5	6	13'-4"	1W602.2	STR	13'-4"												
36	5	14'-5"	1A504.2	2	11'-3"	3'-2"												▲ 15	5	8'-7"	4W501.2	STR	8'-7"												
* 6	6	12'-1"	1A601.2	19	12'-1"	2'-7"	9'-6"	---					2'-5"		0'-11"			▲ 5	5	13'-4"	4W502.2	STR	13'-4"												
5	6	12'-1"	1A602.2	27	12'-1"	2'-7"	9'-6"	---					2'-5"		0'-11"			11	5	5'-11"	4W503.2	S10	5'-11"	2'-2"	1'-7"	2'-2"									
* 44	7	7'-11"	1A702.2	17	7'-11"	2'-2"	5'-9"	---										5	5	5'-11"	4W504.2	19	5'-11"	2'-2"	3'-9"	---			2'-0"		0'-9"				
WINGWALL 2																		WINGWALL 3																	
▲ 6	5	13'-4"	2W502	STR	13'-4"													* ▲ 6	5	13'-4"	4W502	STR	13'-4"												
6	5	5'-11"	2W504	27	5'-11"	2'-2"	3'-9"	---					2'-0"		0'-9"			6	5	5'-11"	4W504	19	5'-11"	2'-2"	3'-9"	---			2'-0"		0'-9"				
▲ 6	6	13'-4"	2W602	STR	13'-4"													▲ 6	6	13'-4"	4W602	STR	13'-4"												
▲ 15	5	9'-0"	2W501.2	STR	9'-0"													▲ 15	5	8'-7"	4W501.2	STR	8'-7"												
▲ 5	5	13'-4"	2W502.2	STR	13'-4"													▲ 5	5	13'-4"	4W502.2	STR	13'-4"												
11	5	5'-11"	2W503.2	S10	5'-11"	2'-2"	1'-7"	2'-2"					2'-0"		0'-9"			11	5	5'-11"	4W503.2	S10	5'-11"	2'-2"	1'-7"	2'-2"									
5	5	5'-11"	2W504.2	27	5'-11"	2'-2"	3'-9"	---					2'-0"		0'-9"			5	5	5'-11"	4W504.2	19	5'-11"	2'-2"	3'-9"	---			2'-0"		0'-9"				
▲ 5	6	13'-4"	2W602.2	STR	13'-4"													▲ 5	6	13'-4"	4W602.2	STR	13'-4"												

~ 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-SI). 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	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

~ REINFORCING STEEL CORROSION RESISTANCE LEVEL ~

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 PI SHEET FOR AS-BUILT RECORD PLAN ARCHIVES.

PROJECT NAME: **MIDDLESEX**
 PROJECT NUMBER: **BRF 024-1(37)**
 FILE NAME: **s10c220rss.xls** PLOT DATE: **1/13/2015**
 PROJECT MANAGER: **C. CARLSON** DRAWN BY: **C. BURRALL**
 DESIGNED BY: **H. SALLS** CHECKED BY: **H. SALLS**
REINFORCING STEEL SCHEDULE SHEET **29** OF **46**