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
DECK																	
✳	591	5	33'- 4"	ES501	STR												
✳ ▲	528	5	~~29'- 3"~~ 28'- 3"	ES502	STR												
✳ ▲	528	5	~~24'- 7"~~ 25'- 7"	ES503	STR												
▲	16	5	28'- 6"	ES507	STR												
▲	16	5	26'- 1"	ES508	STR												
△	53	6	40'- 0"	ES601	STR	(3)											
✳	37	5	8'- 11"	ES504	S5	0'- 10"	3'- 6"	0'- 6"	3'- 3"			0'- 10"					
	36	5	9'- 2"	ES505	S5	0'- 10"	3'- 6"	0'- 9"	3'- 3"			0'- 10"					
	422	5	9'- 11"	ES506	S5	0'- 10"	1'- 3"	6'- 0"	1'- 0"			0'- 10"					

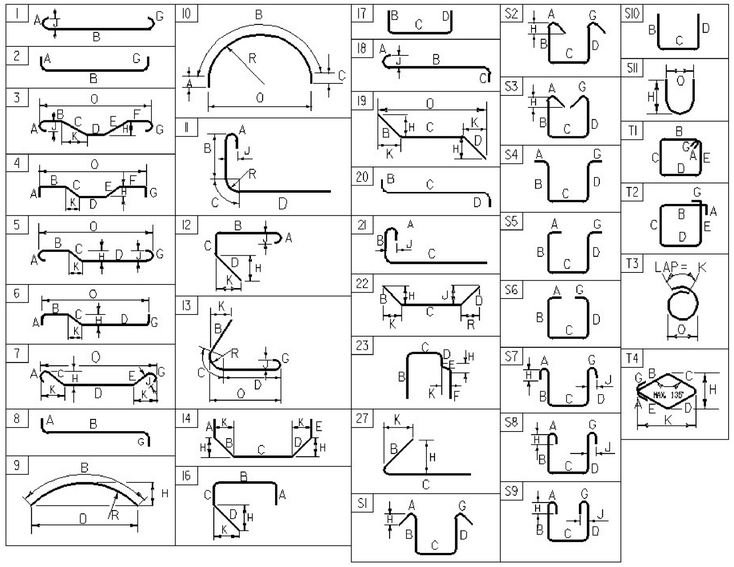
NEW CUT LINE

✳ THE COST FOR THE BRIDGE RAILING REINFORCEMENT FOR THE CONCRETE BRIDGE POSTS DETAILED ON SHEET 31 SHALL BE INCLUDED IN THE PAY ITEM 900.640 "SPECIAL PROVISION (BRIDGE RAILING REPAIR, PIPE AND SPINDLE)

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
✳ **BRIDGE RAILING**																	
△	42	5	33'- 4"	ER501	STR												
	64	5	5'- 5"	ER502	S11								2'- 7"				0'- 5"
	64	5	5'- 5"	ER503	S11								2'- 7"				0'- 5"
	336	5	3'- 11"	ER504	S5	---	1'- 4"	0'- 5"	1'- 4"			0'- 10"					
	336	5	2'- 8"	ER505	T1	0'- 3"	0'- 10"	0'- 6"	0'- 10"			0'- 3"					
	8	5	7'- 0"	ER506	S10		3'- 0"	1'- 0"	3'- 0"								
	8	5	5'- 0"	ER507	S10		3'- 0"	2'- 0"	---								
	8	5	3'- 2"	ER508	S10		2'- 8"	0'- 6"	---								
	28	5	4'- 6"	ER509	T1	0'- 3"	1'- 0"	1'- 0"	1'- 0"	1'- 0"		0'- 3"					
	8	5	3'- 10"	ER510	T1	0'- 3"	0'- 8"	1'- 0"	0'- 8"	1'- 0"		0'- 3"					
	8	5	3'- 10"	ER511	S10		2'- 1"	0'- 8"	---								

~ NOTES ~

1. 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.
2. 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".
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
5. "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
8. ▲ DENOTES BARS TO BE CUT IN FIELD.
9. ✳ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
10. △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
11. 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

REV.	BY	DATE	DESCRIPTION
(3)	DRP	5/26/09	REVISED BAR LENGTH

PROJECT NAME: **SPRINGFIELD**
PROJECT NUMBER: **BHF 016-2(14)**

FILE NAME: **s06j004rss.dgn**
PROJECT MANAGER: **R. WHITCOMB**
DESIGNED BY: **D. PETERSON**
REINFORCING STEEL SCHEDULE

PLOT DATE: **5/28/2009**
DRAWN BY: **C. MOONEY**
CHECKED BY: **D. PETERSON**
SHEET **38** OF **72**