STATE OF VERMONT
AGENCY OF TRANSPORTATION

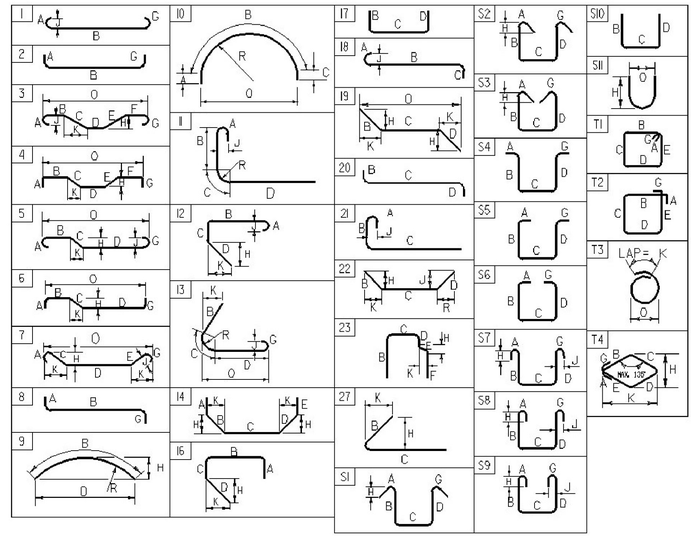
REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	DECK																
▲	162	5	32'- 4"	S501.2	STR												
▲	240	5	28'- 6"	S502.2	STR												
	296	5	32'- 3"	S503.2	STR												
	4	5	37'- 2"	S504.2	STR												
	5	5	32'- 2"	S505.2	STR												
	325	5	3'- 1"	S506.2	S5	---	0'- 11"	0'- 5"	0'- 11"			0'- 10"					
	26	5	3'- 9"	S507.2	S5	0'- 10"	0'- 9"	0'- 7"	0'- 9"			0'- 10"					
	22	5	5'- 5"	S508.2	S5	0'- 10"	0'- 9"	2'- 3"	0'- 9"			0'- 10"					
▲	462	6	4'- 2"	S601.2	STR												
	APPROACH SLAB NO. 1																
	21	5	36'- 3"	1AS501	STR												
✳	38	9	20'- 9"	1AS901	1	1'- 3"	19'- 6"					---		1'- 0"			
	APPROACH SLAB NO. 2																
	22	5	29'- 10"	2AS501	STR												
	36	9	20'- 9"	2AS901	1	1'- 3"	19'- 6"					---		1'- 0"			
	ABUTMENT NO. 1																
	32	5	23'- 7"	1A501	STR												
	45	5	3'- 11"	1A502	STR												
✳ ▲	91	5	8'- 4"	1A504	STR												
	20	5	19'- 5"	1A505A	STR												
▲	22	5	25'- 7"	1A505B	STR												
	2	5	15'- 6"	1A506A	STR												
	2	5	22'- 1"	1A506B	STR												
	8	5	9'- 4"	1A509	STR												
✳	91	7	9'- 6"	1A701	STR												
	45	8	3'- 6"	1A801	STR												
	44	5	7'- 3"	1A503	17		3'- 8"	3'- 7"	---								
	37	5	10'- 7"	1A507	16	2'- 2"	3'- 10"	1'- 2"	3'- 5"				2'- 5"		2'- 5"		
	8	5	9'- 2"	1A508	16	2'- 2"	2'- 10"	2'- 2"	2'- 0"				1'- 5"		1'- 5"		
	8	5	5'- 2"	1A510	S10		2'- 2"	0'- 10"	2'- 2"								
	32	5	4'- 4"	1A511	22		2'- 2"	2'- 2"	---				1'- 9"	---	1'- 3"	---	
	18	5	8'- 3"	1A512	22		2'- 2"	6'- 1"	---				1'- 5"	---	1'- 8"	---	
	16	5	5'- 4"	1A513	22		2'- 1"	3'- 3"	---				1'- 4"	---	1'- 8"	---	
	45	6	7'- 10"	1A601	17		4'- 3"	3'- 7"	---								
	8	6	11'- 6"	1A602	22		2'- 0"	9'- 6"	---				1'- 5"	---	1'- 5"	---	
✳	40	5	7'- 7"	1A501.2	STR												
	8	5	20'- 9"	1A502.2	STR												
	8	5	27'- 11"	1A503.2	STR												
	6	5	15'- 6"	1A504.2	STR												
	6	5	22'- 1"	1A505.2	STR												
	12	5	7'- 9"	1A508.2	STR												
	37	5	6'- 2"	1A506.2	S10		2'- 2"	1'- 10"	2'- 2"								
	39	5	8'- 2"	1A507.2	S10		3'- 8"	0'- 10"	3'- 8"								
	37	6	9'- 11"	1A601.2	22		3'- 3"	6'- 8"	---				2'- 4"	---	2'- 4"	---	
	2	6	9'- 5"	1A602.2	22		1'- 9"	7'- 8"	---				1'- 3"	---	1'- 3"	---	
	20	8	3'- 5"	1A801.2	22		1'- 5"	2'- 0"	---				1'- 0"	---	1'- 0"	---	
	WINGWALL NO. 1																
	16	5	14'- 5"	1W501	STR												
	12	5	3'- 11"	1W502	STR												
▲	12	5	15'- 8"	1W504	STR												
▲	32	5	9'- 9"	1W505	STR												
▲	12	5	13'- 0"	1W506	STR												
✳	30	6	9'- 6"	1W601	STR												
	11	5	9'- 8"	1W503	17		3'- 7"	6'- 1"	---								
	12	5	5'- 11"	1W507	S10		2'- 2"	1'- 7"	2'- 2"								
	12	6	10'- 2"	1W602	17		3'- 7"	6'- 7"	---								
	WINGWALL NO. 2																
	16	5	27'- 12"	2W501	STR												
	25	5	3'- 11"	2W502	STR												
	25	5	13'- 11"	2W504	STR												
	32	5	14'- 9"	2W505	STR												
	16	5	14'- 2"	2W506	STR												
	16	5	11'- 8"	2W507	STR												
	25	5	11'- 3"	2W508	STR												

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	56	6	9'- 6"	2W601	STR												
	24	5	9'- 8"	2W503	17		3'- 7"	6'- 1"	---								
	25	5	5'- 11"	2W509	S10		2'- 2"	1'- 7"	2'- 2"								
	25	6	10'- 2"	2W602	17		3'- 7"	6'- 7"	---								
	ABUTMENT NO. 2																
	32	5	24'- 1"	2A501	STR												
	43	5	3'- 11"	2A502	STR												
▲	86	5	11'- 0"	2A504	STR												
▲	28	5	26'- 1"	2A505A	STR												
	26	5	17'- 7"	2A505B	STR												
	2	5	21'- 1"	2A506A	STR												
	2	5	11'- 3"	2A506B	STR												
	10	5	8'- 11"	2A509	STR												
▲	8	5	4'- 0"	2A511	STR												
✳	42	8	3'- 6"	2A801	STR												
	93	8	9'- 6"	2A802	STR												
	42	5	9'- 5"	2A503	17		5'- 10"	3'- 7"	---								
	31	5	9'- 11"	2A507	16	2'- 2"	3'- 7"	1'- 2"	3'- 0"				2'- 6"		2'- 6"		
	12	5	8'- 7"	2A508	16	2'- 2"	2'- 7"	2'- 2"	1'- 8"				1'- 5"		1'- 5"		
	10	5	4'- 11"	2A510	S10		2'- 2"	0'- 7"	2'- 2"								
	37	5	12'- 4"	2A512	22		2'- 2"	8'- 0"	2'- 2"				1'- 5"	1'- 5"	1'- 8"	1'- 8"	
	11	5	4'- 4"	2A513	22		2'- 2"	2'- 2"	---				2'- 2"	---	0'- 5"	---	
	36	5	11'- 1"	2A514	22		2'- 2"	6'- 9"	2'- 2"				1'- 8"	1'- 8"	1'- 5"	1'- 5"	
	10	5	4'- 4"	2A515	22		2'- 2"	2'- 2"	---				2'- 2"	---	0'- 5"	---	
	43	6	8'- 0"	2A601	17		6'- 5"	1'- 7"	---								
	33	5	7'- 3"	2A501.2	STR												
	7	5	26'- 5"	2A502.2	STR												
	7	5	17'- 1"	2A503.2	STR												
	5	5	21'- 1"	2A504.2	STR												
	5	5	11'- 3"	2A505.2	STR												
	16	5	7'- 9"	2A508.2	STR												
	31	5	5'- 11"	2A506.2	S10		2'- 2"	1'- 7"	2'- 2"								
	33	5	5'- 11"	2A507.2	S10		2'- 8"	0'- 7"	2'- 8"								
✳	32	6	8'- 11"	2A601.2	22		2'- 10"	6'- 1"	---				2'- 0"	---	2'- 0"	---	
	2	6	8'- 6"	2A602.2	22		1'- 5"	7'- 1"	---				1'- 0"	---	1'- 0"	---	
	15	8	3'- 5"	2A801.2	22		1'- 5"	2'- 0"	---				1'- 0"	---	1'- 0"	---	
	WINGWALL NO. 3																
	17	5	28'- 3"	3W501	STR												
	26	5	3'- 11"	3W502	STR												
	22	5	26'- 6"	3W503	STR												
▲	27	5	18'- 0"	3W504	STR												
▲	27	5	13'- 6"	3W505	STR												
▲	14	5	24'- 6"	3W508	STR												
	58	7	11'- 6"	3W701	STR												
	27	5	5'- 11"	3W509	S10		2'- 2"	1'- 7"	2'- 2"								
	26	6	11'- 9"	3W601	17		3'- 7"	8'- 2"	---								
	27	7	12'- 0"	3W702	17		3'- 7"	8'- 5"	---								
	WINGWALL NO. 4																
	16	5	13'- 11"	4W501	STR												
	10	5	3'- 11"	4W502	STR												
	20	5	11'- 6"	4W503	STR												
	10	5	16'- 1"	4W504	STR												
	10	5	12'- 8"	4W505	STR												
	14	5	9'- 6"	4W508	STR												
	28	7	10'- 6"	4W701	STR												
	10	5	5'- 11"	4W509	S10		2'- 2"	1'- 7"	2'- 2"								
	9	6	10'- 4"	4W601	17		3'- 7"	6'- 9"	---								
	10	7	10'- 11"	4W702	17		3'- 7"	7'- 4"	---								

~ 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

NOMINAL REINFORCING BAR DESIGNATION	NOMINAL PROPERTIES			
	WEIGHT LBS/FT	DIAMETER INCHES	AREA SQ INCHES	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	2.04	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 PROVIEDED FOR EACH CORRIOSION LEVEL WILL BE RECORDED ON THE PLAN SET PI SHEET FOR AS-BUILT RECORD PLAN ARCHIVES.

PROJECT NAME: **ROYALTON**
PROJECT NUMBER: **BRS 0147(13)**

FILE NAME: **\BR 28\s85e066rss.dgn**
PROJECT MANAGER: **C. CARLSON**
DESIGNED BY: **D. PETERSON**
BRIDGE 28 REINFORCING STEEL SCHEDULE

PLOT DATE: **8/27/2013**
DRAWN BY: **G. ROKES**
CHECKED BY: **D. PETERSON**
SHEET 130 OF 186