STATE OF VERMONT
AGENCY OF TRANSPORTATION

REINFORCING STEEL SCHEDULE

Metric

BRIDGE #71

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	39	16	6920	ES1601	STR												
▲	26	16	10540	ES1602	STR												
	48	16	1600	ES1603	S10		790	140	670								
	74	16	1790	ES1604	T1	595	470	190	535				375		375		
✳	75	16	1850	ES1605	S10		840	170	840								
✳	39	25	900	ES2501	19		300	600					150		150		

APPROACH SLAB #1

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
✳	22	16	8240	1EAS1601	STR												
✳	35	29	6220	1EAS2901	1	380	5840										

APPROACH SLAB #2

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	21	16	8240	2EAS1601	STR												
	34	29	6220	2EAS2901	1	380	5840										

ABUTMENT # 1

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	30	16	7250	1A1601	STR												
	49	16	1180	1A1602	STR												
▲	41	16	3940	1A1603	STR												
▲	8	16	5030	1A1604	STR												
	28	16	9000	1A1605	STR												
✳	57	16	2480	1A1606	STR												
	37	16	2750	1A1607	STR												
	8	16	3840	1A1608	STR												
	45	16	2412	1A1609	17		971	470	971								
▲	49	16	1740	1A1610	17		870	870	---								
	28	16	3460	1A1611	22		660	2140	660								
✳	79	19	2440	1A1901	STR												
	10	25	1050	1A2501	STR												
	46	25	3440	1A2502	17		2370	1070	---								

WINGWALL #1

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
▲	15	16	6840	1W1601	STR												
	46	16	1180	1W1602	STR												
▲	22	16	5030	1W1603	STR												
✳	25	16	1930	1W1604	STR												
▲	36	16	6880	1W1605	STR												
	16	16	6920	1W1606	STR												
	10	16	1320	1W1607	STR												
	46	16	1790	1W1608	17		660	470	660								
	10	16	2640	1W1609	20		820	1160	660								
	5	16	3200	1W1610	19		990	1550	660								
✳	21	19	3900	1W1901	STR												
	88	19	3520	1W1902	17		2450	1070	---								
✳	87	22	2590	1W2201	STR												
✳	21	25	1050	1W2501	STR												

WINGWALL #2

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	15	16	2640	2W1601	STR												
	20	16	1180	2W1602	STR												
▲	20	16	5030	2W1603	STR												
	29	16	5440	2W1604	STR												
	8	16	2640	2W1605	STR												
	20	16	2412	2W1606	17		971	470	971								
	10	16	2580	2W1607	20		820	1100	660								
	5	16	3200	2W1608	19		990	1550	660								
✳	19	19	3900	2W1901	STR												
	34	19	3520	2W1902	17		2450	1070	---								
✳	38	22	2590	2W2201	STR												
✳	5	25	1050	2W2501	STR												

ABUTMENT # 2

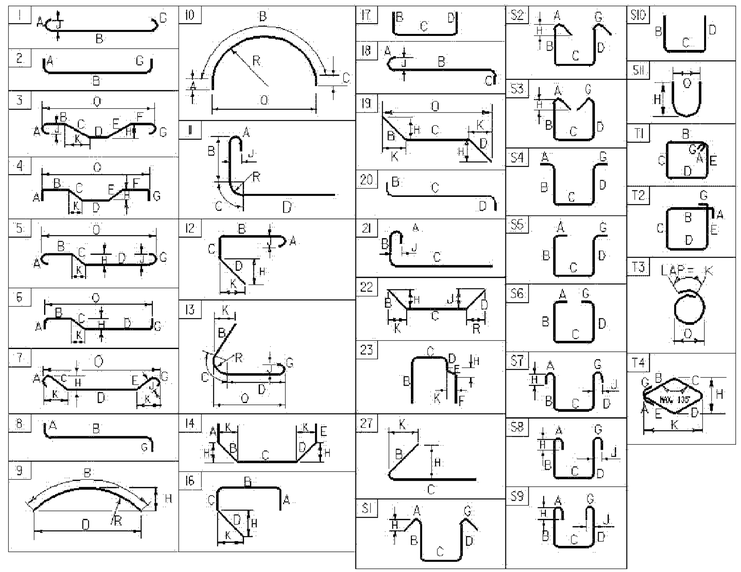
ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	18	16	7210	2A1601	STR												
	49	16	1420	2A1602	STR												
▲	23	16	5130	2A1603	STR												
▲	36	16	7470	2A1604	STR												
	21	16	2750	2A1605	STR												
▲	3	16	6210	2A1606	STR												
	3	16	3840	2A1607	STR												
	13	16	5540	2A1608	STR												
✳	21	16	1880	2A1609	STR												
✳ ▲	33	16	1770	2A1610	STR												
▲	20	16	3450	2A1611	STR												
	14	16	5620	2A1612	STR												
	20	16	1320	2A1613	STR												
	23	16	2250	2A1614	17		1180	1070	---								
	50	16	2412	2A1615	17		971	470	971								
▲	29	16	1710	2A1616	22		640	1070	---					180		610	
▲	29	16	1490	2A1617	22		620	870	---					475		400	
	18	16	2450	2A1618	22		660	1130	660					280		600	
	21	25	1050	2A2501	STR												
✳	25	25	2920	2A2502	STR												
✳	7	25	1980	2A2503	STR												
△	48	25	3250	2A2504	17		2180	1070									
✳	45	29	3440	2A2901	STR												

WINGWALL #4

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	16	16	8770	4W1601	STR												
	30	16	1420	4W1602	STR												
▲	30	16	6210	4W1603	STR												
▲	43	16	2370	4W1604	STR												
▲	36	16	6920	4W1605	STR												
▲	30	16	4320	4W1606	STR												
	30	16	2412	4W1607	17		971	470	971								
	2	16	9360	4W1608	19		890	8470	---					362		813	
△	32	22	2280	4W2201	STR												
	7	25	1050	4W2501	STR												
✳	32	29	2700	4W2901	STR												
	30	29	3310	4W2902	17		2080	1230	---								

~ NOTES ~

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING 55M SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31M (ASTM A 615M-SI). ALL BARS SHALL BE GRADE 420, 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 DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS

BAR SIZE	NOMINAL MASS (Kg/m)	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER (mm)	CROSS SECTIONAL AREA (mm²)	PERIMETER (mm)
#10	0.560	9.5	71	29.84
#13	0.994	12.7	129	39.90
#16	1.552	15.9	199	49.95
#19	2.235	19.1	284	60.00
#22	3.042	22.2	387	69.74
#25	3.973	25.4	510	79.80
#29	5.060	28.7	645	90.16
#32	6.404	32.3	819	101.47
#36	7.907	35.8	1006	112.47
#43	11.380	43.0	1452	135.09
#57	20.240	57.3	2581	180.01

PROJECT NAME: **East Montpelier**
PROJECT NUMBER: **BRF 037-2(8)**

FILE NAME: 86e054rss (sidewalk).xls
PROJECT MANAGER: C. WILLIAMS
DESIGNED BY: H.I.SALLS
REINFORCING STEEL SCHEDULE

PLOT DATE: 2/23/2011
DRAWN BY: 0
CHECKED BY: 0
SHEET 39A OF 63