STATE OF VERMONT
AGENCY OF TRANSPORTATION

REINFORCING STEEL SCHEDULE

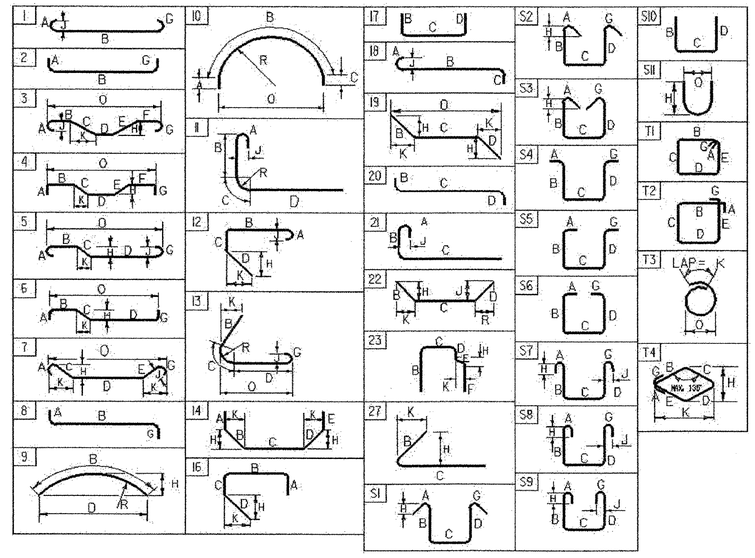
Metric

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
SLAB																	
△	12	16	9440	ES1601	STR												
	33	16	5220	ES1602	STR												
	66	16	2470	ES1603	S6	250	340	1290	340			250					
△	33	29	9820	ES2901	1	380	9440					---		290			
ABUTMENT NO. 1																	
	15	16	8610	1A1601	STR												
	32	16	1180	1A1602	STR												
	19	16	2380	1A1604	STR												
	8	16	2960	1A1605	STR												
▲	19	16	3260	1A1606	STR												
▲	9	16	3840	1A1607	STR												
	48	16	4020	1A1608	STR												
▲	8	16	1000	1A1609	STR												
✳	49	16	3190	1A1603	17		---	1170	2020								
	27	16	1640	1A1610	S10		660	320	660								
△	37	19	2440	1A1901	STR												
△	12	25	900	1EA2501	STR												
WINGWALL NO. 1																	
	17	16	2400	1W1601	STR												
	8	16	1180	1W1602	STR												
	7	16	2360	1W1603	STR												
▲	8	16	3840	1W1604	STR												
▲	28	16	2000	1W1605	STR												
▲	18	16	1700	1W1606	19		850	850	---				740		430		
	2	16	2120	1W1607	19		460	1660	---				170		430		
	12	16	3870	1W1608	22		660	2550	660				280	380	600	540	
	7	16	1640	1W1609	S10		660	320	660								
	7	22	2840	1W2201	STR												
✳	14	22	3940	1W2202	17		---	1320	2620								
WINGWALL NO. 2																	
	17	16	2030	2W1601	STR												
	7	16	1180	2W1602	STR												
✳	8	16	2310	2W1603	STR												
▲	7	16	3800	2W1604	STR												
▲	28	16	1830	2W1605	STR												
▲	18	16	1960	2W1606	19		980	980	---				690		690		
	2	16	1890	2W1607	19		390	1500	---				120		380		
	12	16	4120	2W1608	22		660	2800	660				140	250	330	610	
	7	16	1640	2W1609	S10		660	320	660								
	7	22	2840	2W2201	STR												
✳	13	22	3940	2W2202	17		---	1320	2620								

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
ABUTMENT NO. 2																	
	15	16	8930	2A1601	STR												
	32	16	1180	2A1602	STR												
	19	16	2560	2A1604	STR												
	8	16	3130	2A1605	STR												
▲	19	16	3440	2A1606	STR												
▲	9	16	4010	2A1607	STR												
	52	16	4090	2A1608	STR												
▲	8	16	1130	2A1609	STR												
✳	49	16	3190	2A1603	17		---	1170	2020								
	27	16	1640	2A1610	S10		660	320	660								
△	37	19	2440	2A1901	STR												
△	12	25	900	2EA2501	STR												
WINGWALL NO. 3																	
	17	16	2600	3W1601	STR												
	8	16	1180	3W1602	STR												
	7	16	2550	3W1603	STR												
▲	8	16	4040	3W1604	STR												
	28	16	2050	3W1605	STR												
▲	19	16	1560	3W1606	19		780	780	---				730		270		
	13	16	3450	3W1608	22		660	2130	660				380	380	540	540	
	7	16	1640	3W1609	S10		660	320	660								
				3W1607	(NOT USED)												
	7	22	2840	3W2201	STR												
✳	14	22	3940	3W2202	17		---	1320	2620								
WINGWALL NO. 4																	
	17	16	2400	4W1601	STR												
	8	16	1180	4W1602	STR												
✳	8	16	2520	4W1603	STR												
▲	8	16	4000	4W1604	STR												
▲	28	16	2000	4W1605	STR												
▲	19	16	1700	4W1606	19		850	850	---				740		420		
	2	16	2100	4W1607	19		460	1640	---				160		430		
	13	16	3670	4W1608	22		660	2350	660				330	330	570	570	
	7	16	1640	4W1609	S10		660	320	660								
	7	22	2840	4W2201	STR												
✳	14	22	3940	4W2202	17		---	1320	2620								

~ 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 IN BAR MARK DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS

BAR SIZE	NOMINAL MASS (Kg/m)	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER (mm)	CROSS SECTIONAL AREA (mm^2)	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: **HUNTINGTON**
PROJECT NUMBER: **BRO 1445 (21)**

FILE NAME: **\93j029\structures\sj029ref.xls**
PROJECT MANAGER: **R. WHITCOMB**
DESIGNED BY: **J. LACROIX**
REINFORCING STEEL SCHEDULE SHEET #1

PLOT DATE: **10/01/2003**
DRAWN BY: **S. SCRIBNER**
CHECKED BY: **M. LOZIER**
SHEET **22** OF **34**