STATE OF VERMONT
AGENCY OF TRANSPORTATION

REINFORCING STEEL SCHEDULE

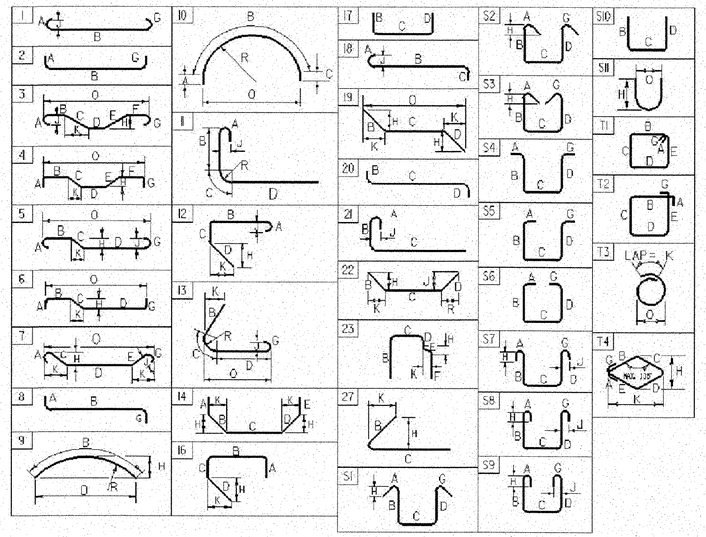
Metric

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
MSE WALL C.I.P. COPING																	
△ ▲	40	13	2840	EC 1302	STR												
	130	13	570	EC 1303	17		170	160	240								
	80	13	710	EC1304	17		170	300	240								
SOIL NAIL WALL																	
	260	13	600	ESN1301	STR												
△	22	13	8400	ESN1302	STR												
▲	90	16	8840	SN1601	STR												
△ ▲	133	16	6040	SN1602	STR												
	260	13	710	ESN1303	17		170	300	240								
▲	73	16	1600	SN1603	17		600	400	600								
RETAINING WALL 1																	
	119	13	600	1ERW1301	STR												
△	18	13	5030	1ERW1302	STR												
▲	53	16	4700	1RW1601	STR												
	69	16	1180	1RW1602	STR												
▲	35	16	3190	1RW1603	STR												
✳ ▲	32	16	2210	1RW1604	STR												
▲	74	16	5080	1RW1605	STR												
✳ ▲	61	16	2180	1RW1606	STR												
▲	16	16	1330	1RW1607	STR												
△ ▲	41	19	1590	1RW1901	STR												
△	33	29	2190	1RW2901	STR												
	119	13	710	1ERW1303	17		170	300	240								
	8	16	1400	1RW1608	17		1180	220	---								
	61	16	1190	1RW1609	17		450	290	450								
	8	16	1120	1RW1610	17		450	220	450								
	6	16	2480	1RW1611	9		2480						661			1029	1922
	6	16	2060	1RW1612	9		2060						528			901	1640
	8	16	2100	1RW1613	19		660	780	660								
	16	16	1870	1RW1614	19		660	550	660				660		0		
	15	16	2880	1RW1615	19		660	1560	660								
	16	16	2420	1RW1616	19		660	1100	660				660		0		
	30	19	1940	1RW1902	17		1320	620	---								
△	33	25	2790	1RW2501	17		2170	620	---								
RETAINING WALL 2																	
	37	13	600	2ERW1301	STR												
△	6	13	5340	2ERW1302	STR												
	13	16	5340	2RW1601	STR												
	19	16	1180	2RW1602	STR												
✳ ▲	20	16	3470	2RW1603	STR												
✳	20	16	2440	2RW1604	STR												
	13	16	5340	2RW1605	STR												
△	21	25	2270	2RW2501	STR												
	37	13	710	2ERW1303	17		170	300	240								
	19	16	1190	2RW1606	17		450	290	450								
	19	25	3130	2RW2502	17		2210	920	---								
RETAINING WALL 3																	
	15	16	7840	3RW1601	STR												
△	30	16	1180	3RW1602	STR												
	28	16	4520	3RW1603	STR												
✳	29	16	2800	3RW1604	STR												
	32	16	7840	3RW1605	STR												
△	56	25	2690	3RW2501	STR												
	28	16	1190	3WR1606	17		450	290	450								
	28	25	2120	3RW2502	17		1670	450	---								
	28	25	4010	3RW2503	17		3090	920	---								

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
RETAINING WALL 4																	
▲	13	16	6640	4RW1601	STR												
△	22	16	1180	4RW1602	STR												
✳ ▲	41	16	3290	4RW1603	STR												
▲	26	16	5850	4RW1604	STR												
△ ▲	26	19	1870	4RW1901	STR												
▲	20	16	2370	4RW1605	17		1180	1190	---								
	20	16	1420	4RW1606	17		450	520	450								
RETAINING WALL 5																	
✳ ▲	13	16	5150	5RW1601	STR												
△ ▲	36	16	860	5RW1602	STR												
▲	34	16	1750	5RW1603	17		840	70	840								
RETAINING WALL 6																	
✳ ▲	28	16	7000	6RW1601	STR												
	70	16	3170	6RW1602	S5	1440	290	140	150			1150					
△ ▲	22	25	1500	6RW2501	STR												

~ 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: BETHEL
PROJECT NUMBER: BRF 0241 (33) C/2

FILE NAME: s02c180rss.xls
PROJECT MANAGER: C.P.WILLIAMS
DESIGNED BY: M. GAGULIC
REINFORCING STEEL SCHEDULE SHEET #2

PLOT DATE: 2/16/2005
DRAWN BY: M.FESSEL
CHECKED BY: K.M.HIGGINS
SHEET 79 OF 130