STATE OF VERMONT
AGENCY OF TRANSPORTATION

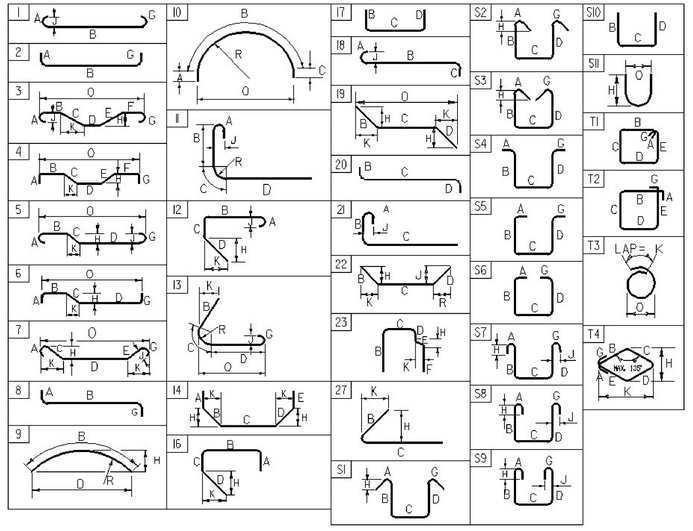
REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
✳	29	5	5'- 0"	U501	STR												
	24	5	6'- 0"	U502	STR												
▲	27	5	7'- 3"	U503	17		3'- 3"	0'- 9"	3'- 3"								
▲	14	5	11'- 9"	U504	17		5'- 6"	0'- 9"	5'- 6"								
	8	5	14'- 6"	U505	STR												
▲	32	5	4'- 0"	U506	22		2'- 0"	2'- 0"					1'- 6"		1'- 3"		
▲	24	5	4'- 10"	U507	STR												
	14	5	5'- 0"	D501	STR												
	12	5	6'- 0"	D502	STR												
▲	29	5	7'- 3"	D503	17		3'- 3"	0'- 9"	3'- 3"								
▲	7	5	12'- 9"	D504	17		6'- 0"	0'- 9"	6'- 0"								
	10	5	15'- 1"	D505	STR												
	16	5	7'- 6"	D506	STR												
	18	5	7'- 0"	D507	STR												
▲	9	5	16'- 9"	D508	17		8'- 0"	0'- 9"	8'- 0"								
▲	16	5	4'- 0"	D509	22		2'- 0"	2'- 0"					1'- 6"		1'- 3"		
▲	20	5	4'- 9"	D510	22		2'- 9"	2'- 0"					1'- 11"		0'- 6"		
▲	16	5	7'- 11"	D511	STR												
✳ ▲	15	5	4'- 10"	D512	STR												

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O

~ 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

PROJECT NAME: **WINHALL**
PROJECT NUMBER: **STP CULV(22)**

FILE NAME:
PROJECT MANAGER: **G. BOGUE**
DESIGNED BY: **T. KNIGHT**
REINFORCING STEEL SCHEDULE

PLOT DATE: **7/1/2010**
DRAWN BY: **J. SOTER**
CHECKED BY: **M. CHENETTE**
SHEET 19 OF 21