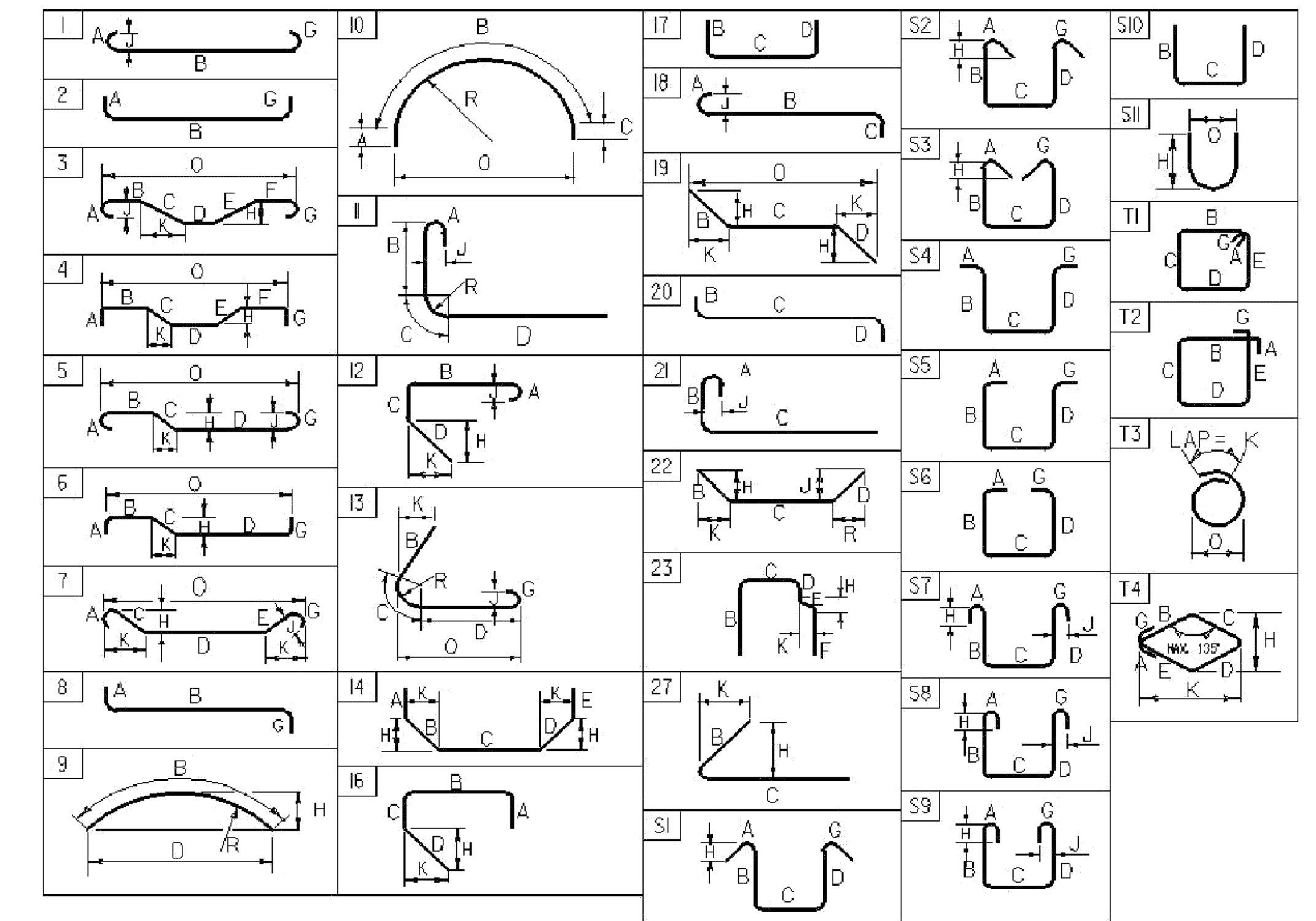


# REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O	ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O			
<b>ARCH FOOTING #1</b>																																						
*	41	5	30'- 6"	1A501	STR																																	
*	41	5	31'- 1"	1A502	STR																																	
▲	238	10	8'- 6"	1A1001	STR																																	
<b>ARCH FOOTING #2</b>																																						
*	41	5	27'- 7"	2A501	STR																																	
*	41	5	35'- 11"	2A502	STR																																	
▲	238	10	8'- 6"	2A1001	STR																																	
<b>WINGWALL FOOTING #1</b>																																						
△	8	5	11'- 8"	1W501	STR																																	
	13	5	9'- 10"	1W502	T1	0'- 7"	2'- 0"	2'- 4"	2'- 0"	2'- 4"				0'- 7"																								
	4	5	4'- 4"	1W503	22		2'- 2"	2'- 2"	---					1'- 8"	1'- 4"																							
<b>WINGWALL FOOTING #2</b>																																						
△	8	5	15'- 8"	2W501	STR																																	
	17	5	9'- 10"	2W502	T1	0'- 7"	2'- 0"	2'- 4"	2'- 0"	2'- 4"				0'- 7"																								
	4	5	4'- 4"	2W503	22		2'- 2"	2'- 2"	---					1'- 8"	1'- 4"																							
<b>WINGWALL FOOTING #3</b>																																						
△	8	5	23'- 2"	3W501	STR																																	
	24	5	9'- 10"	3W502	T1	0'- 7"	2'- 0"	2'- 4"	2'- 0"	2'- 4"				0'- 7"																								
	4	5	4'- 4"	3W503	22		2'- 2"	2'- 2"	---					1'- 8"	1'- 4"																							
<b>WINGWALL FOOTING #4</b>																																						
△	8	5	27'- 9"	4W501	STR																																	
	29	5	9'- 10"	4W502	T1	0'- 7"	2'- 0"	2'- 4"	2'- 0"	2'- 4"				0'- 7"																								
	4	5	4'- 4"	4W503	22		2'- 2"	2'- 2"	---					1'- 11"	0'- 11"																							

~ NOTES ~

- 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-S). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
- 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".
- BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
- "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
- "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
- ▲ DENOTES BARS TO BE CUT IN FIELD.
- \* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
- △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
- 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 <sup>2</sup>	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: LUDLOW  
PROJECT NUMBER: STP ST CULV(7)  
FILE NAME: s00b258excel.dgn  
PROJECT MANAGER: C.P.WILLIAMS  
DESIGNED BY: H.SALLS  
PLOT DATE: 9/11/2008  
DRAWN BY: D.D.BEARD  
CHECKED BY: H.SALLS  
REINFORCING STEEL SCHEDULE SHEET  
SHEET 22 OF 34