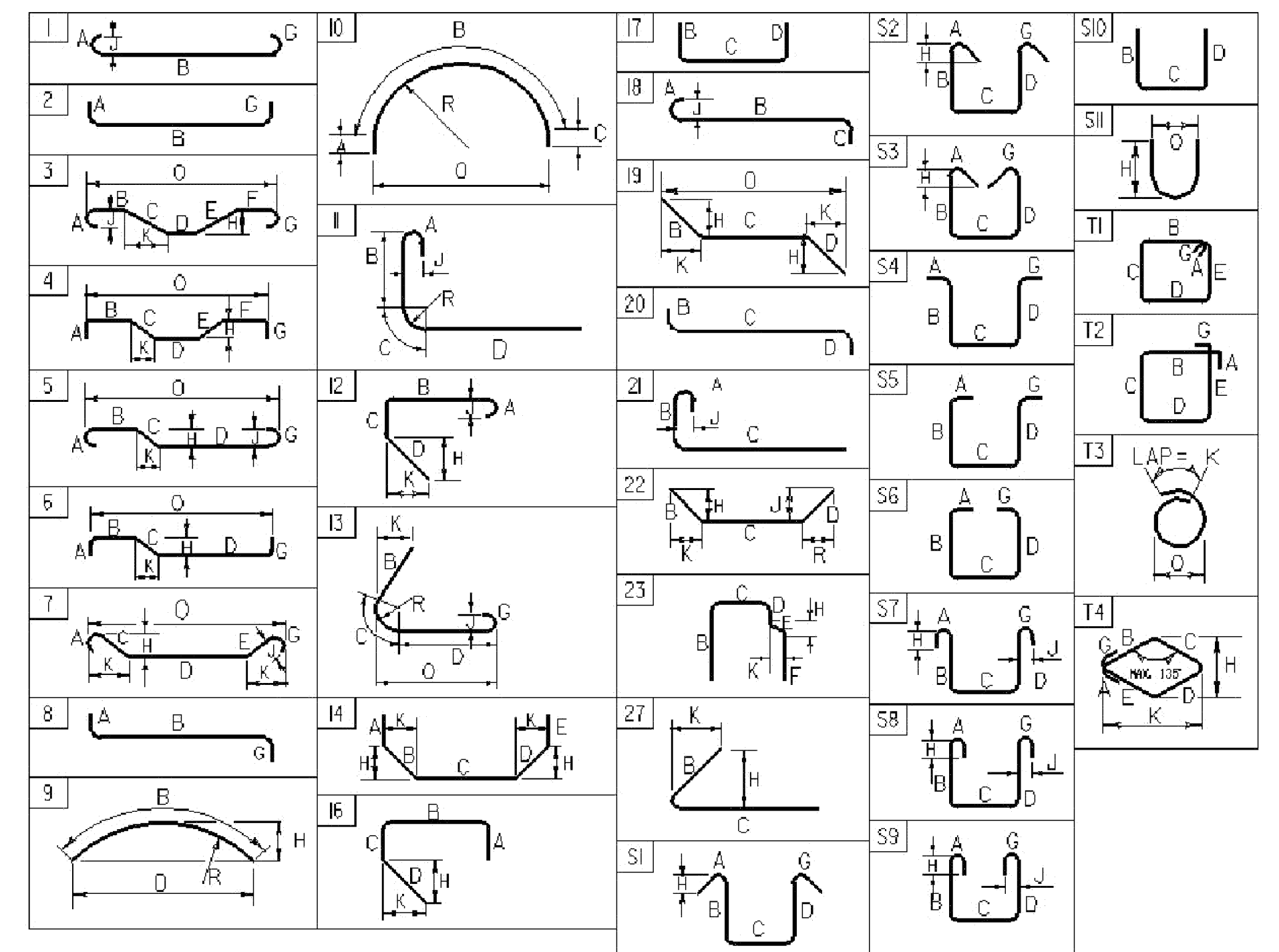


REINFORCING STEEL SCHEDULE

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		
HARTFORD 9-1 CULVERT HEADWALL 1																																					
▲	19	5	3'- 5"	1W501	STR																																
▲	30	5	17'- 6"	1W502	STR																																
▲	19	5	8'- 3"	1W503	STR																																
	19	5	2'- 10"	1W504	17				1'- 0"	0'- 10"	1'- 0"																										
	4	5	12'- 6"	1W505	14	2'- 6"	2'- 6"	2'- 6"	2'- 6"	2'- 6"				1'- 9"		1'- 9"																					
	36	7	6'- 9"	1W701	STR																																
▲	19	7	8'- 3"	1W702	STR																																
▲	19	7	7'- 7"	1W703	17				2'- 10"	4'- 9"																											
	5	8	4'- 0"	1W801	STR																																
HARTFORD 9-2 CULVERT HEADWALL 2																																					
▲	19	5	3'- 5"	2W501	STR																																
▲	30	5	17'- 6"	2W502	STR																																
▲	19	5	8'- 3"	2W503	STR																																
	19	5	2'- 10"	2W504	17				1'- 0"	0'- 10"	1'- 0"																										
	4	5	12'- 6"	2W505	14	2'- 6"	2'- 6"	2'- 6"	2'- 6"	2'- 6"				1'- 9"		1'- 9"																					
	36	7	6'- 9"	2W701	STR																																
▲	19	7	8'- 3"	2W702	STR																																
▲	19	7	7'- 7"	2W703	17				2'- 10"	4'- 9"																											
	5	8	4'- 0"	2W801	STR																																
ROYALTON 20-4 CULVERT HEADWALL 3																																					
▲	19	5	3'- 5"	3W501	STR																																
▲	30	5	17'- 6"	3W502	STR																																
▲	19	5	8'- 3"	3W503	STR																																
	19	5	2'- 10"	3W504	17				1'- 0"	0'- 10"	1'- 0"																										
	4	5	12'- 6"	3W505	14	2'- 6"	2'- 6"	2'- 6"	2'- 6"	2'- 6"				1'- 9"		1'- 9"																					
	36	7	6'- 9"	3W701	STR																																
▲	19	7	8'- 3"	3W702	STR																																
▲	19	7	7'- 7"	3W703	17				2'- 10"	4'- 9"																											
	5	8	4'- 0"	3W801	STR																																
RANDOLPH 29-1D CULVERT HEADWALL 4																																					
▲	19	5	3'- 5"	4W501	STR																																
▲	30	5	17'- 6"	4W502	STR																																
▲	19	5	8'- 3"	4W503	STR																																
	19	5	2'- 10"	4W504	17				1'- 0"	0'- 10"	1'- 0"																										
	4	5	12'- 6"	4W505	14	2'- 6"	2'- 6"	2'- 6"	2'- 6"	2'- 6"				1'- 9"		1'- 9"																					
	36	7	6'- 9"	4W701	STR																																
▲	19	7	8'- 3"	4W702	STR																																
▲	19	7	7'- 7"	4W703	17				2'- 10"	4'- 9"																											
	5	8	4'- 0"	4W801	STR																																

~ 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 M31 (ASTM A 615-5). 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 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: **HARTFORD - SHARON**
 PROJECT NUMBER: **IM 089-1(55)**
 FILE NAME: z08a056rss.dgn
 PROJECT MANAGER: **E. P. DETRICK**
 DESIGNED BY: **A. P. GUYETTE**
 REINFORCING STEEL SCHEDULE
 PLOT DATE: 1/8/2009
 DRAWN BY: **A. P. GUYETTE**
 CHECKED BY: **E. P. DETRICK**
 SHEET 12 OF 20