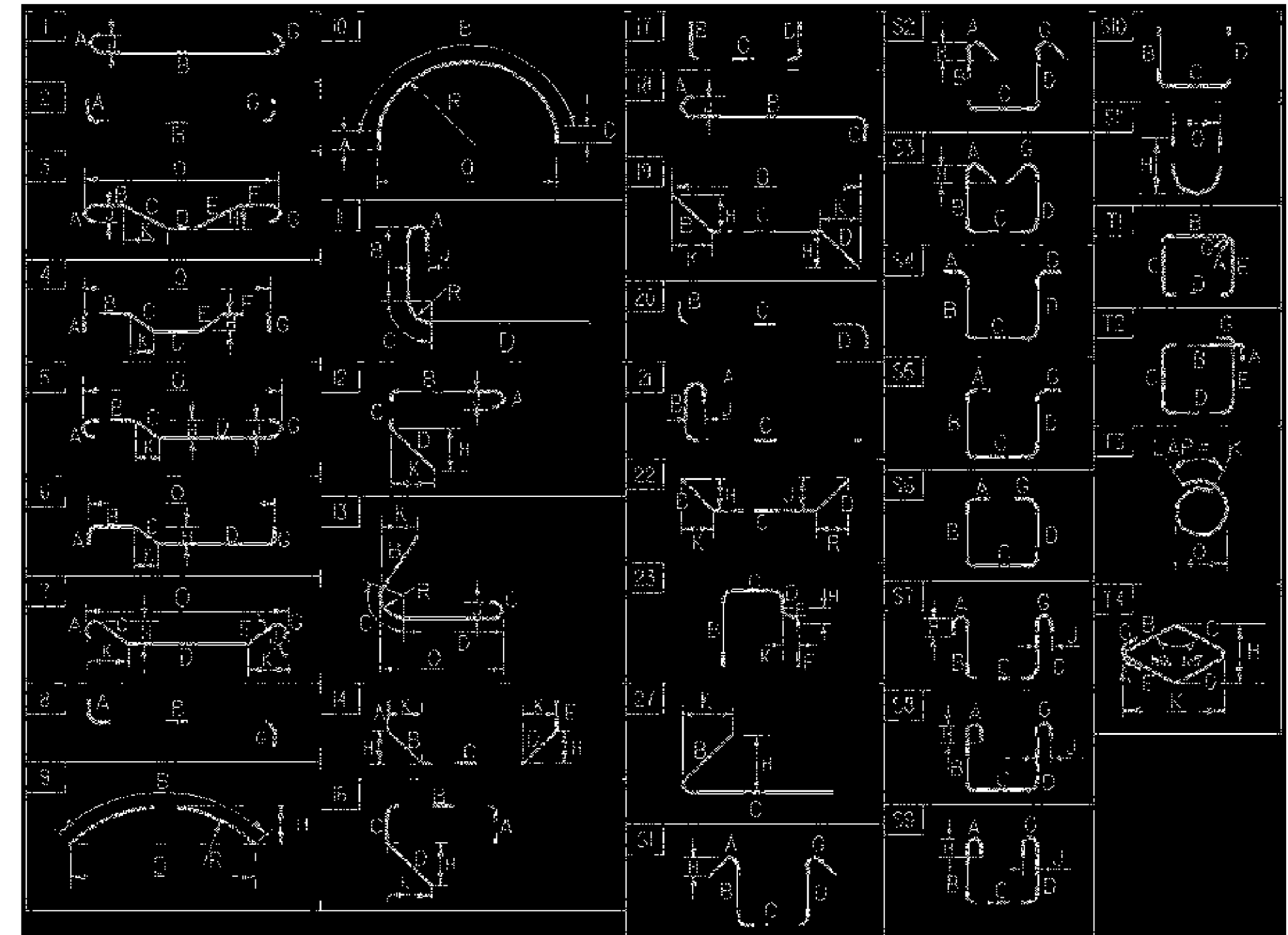


REINFORCING STEEL SCHEDULE

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						
Bridge No. 96-2N																																									
▲	50	5	4'- 1"	W501	STR																																				
▲	62	5	23'- 6"	W502	STR																																				
▲	50	5	9'- 1"	W503	STR																																				
▲	50	5	2'- 10"	W504	17		1'- 0"	0'- 10"	1'- 0"																																
▲	50	5	9'- 1"	W505	STR																																				
8	5	13'- 4"	W506	14	STR	2'- 8"	2'- 8"	2'- 8"	2'- 8"	2'- 8"			1'- 11"		1'- 11"																										
50	6	7'- 0"	W601	STR																																					
▲	50	6	6'- 7"	W602	17		4'- 6"	2'- 1"																																	
Bridge No. 96-2S																																									
▲	50	5	4'- 1"	W501	STR																																				
▲	62	5	23'- 6"	W502	STR																																				
▲	50	5	9'- 1"	W503	STR																																				
▲	50	5	2'- 10"	W504	17		1'- 0"	0'- 10"	1'- 0"																																
▲	50	5	9'- 1"	W505	STR																																				
8	5	13'- 4"	W506	14	STR	2'- 8"	2'- 8"	2'- 8"	2'- 8"	2'- 8"			1'- 11"		1'- 11"																										
50	6	7'- 0"	W601	STR																																					
▲	50	6	6'- 7"	W602	17		4'- 6"	2'- 1"																																	
12	8	3'- 6"	DOWEL	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 M 31 (ASTM A 615-SI). 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 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

SEE STANDARD D-34 FOR 96-2S OUTLET REINFORCING STEEL DETAILS

FOR HEADWALL ONLY

PROJECT NAME:	LYNDON - DERBY	PLOT DATE:	3/9/2009
PROJECT NUMBER:	IM CULV (19)	DRAWN BY:	SLM
FILE NAME:	engrein96-2.xls	CHECKED BY:	WLD
PROJECT MANAGER:	DMB	SHEET	27 OF 28
DESIGNED BY:	LKW	REINF. STEEL SCHEDULE - LYNDON 96-2N & S	