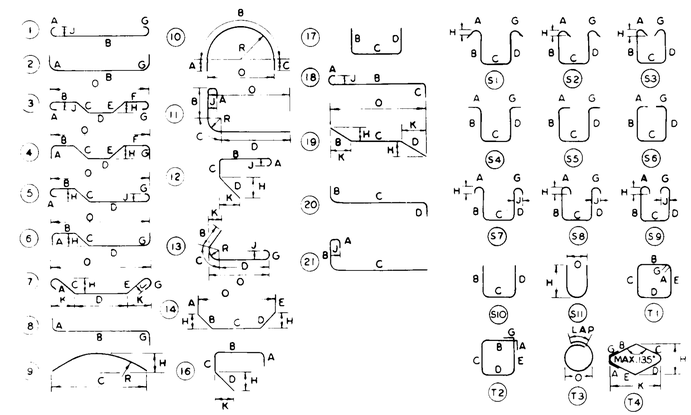
ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
161					WALL TYPE VII												
162																	
163	121	5	5'-6"	72501	STR												
164	21	5	31'-2"	72502	STR												
165	15	5	30'-10"	72503	STR												
166	92	5	3'-9"	72504	STR												
167	12	5	29'-6"	72505	STR												
168	10	5	31'-0"	72506	STR												
169	31	5	5'-2"	72507	STR												
170	31	5	4'-6"	72508	STR												
171	30	5	3'-10"	72509	STR												
172	31	5	4'-9"	72510	STR												
173	30	5	4'-0"	72511	STR												
174	12	5	32'-0"	72512	STR												
175																	
176	31	5	8'-5"	72513	13		8'-0 1/4"	1'-5 1/2"	3'-11 1/4"						1'-3"	0'-3 3/4"	4'-3"
177	31	5	8'-1"	72514	13		2'-10 7/8"	1'-5 1/4"	3'-9 3/8"						1'-3"	0'-3 3/4"	3'-9 5/8"
178	30	5	7'-8"	72515	13		2'-7 7/8"	1'-5 1/4"	3'-6 7/8"						1'-3"	0'-3 3/4"	3'-7 1/8"
179																	
180																	

ASTM STANDARD REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	CROSS SECTIONAL AREA SQ. INCHES	PERIMETER INCHES
#3	.376	.375	.11	1.178
#4	.668	.500	.20	1.571
#5	1.043	.625	.31	1.963
#6	1.502	.750	.44	2.356
#7	2.044	.875	.60	2.749
#8	2.670	1.000	.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

TYPICAL BAR BENDS



PARE ENGINEERING CORPORATION
Engineers — Planners — Landscape Architects
8 Blackstone Valley Place, Lincoln, RI 02865
401-334-4100

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 615-51). 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° AND 135° HOOKS
5. "J" DIMENSION ON 180° 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° 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.

REV NO	MADE BY	DATE	DESCRIPTION

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF POWNAL	BRIDGE NO.
	LOG STA.
HIGHWAY NO. ROUTE 346	SURV STA.
CONCRETE RETAINING WALL	
REINFORCING STEEL SCHEDULE	
DESIGNED BY J.S.J.	DRAWN BY K.M.B.
CHECKED BY DATE	BRIDGE DESIGN SUPERVISOR DATE
PROJECT POWNAL	PROJECT NO. RS0107 (7)
BRIDGE SHEET NO.	SHEET 161 OF 319