



REVISIONS		
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GENERAL ELECTRICAL SPECIFICATIONS

GENERAL NOTES AND ELECTRICAL SPECIFICATIONS

CODE INFORMATION

APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO: NATIONAL ELECTRICAL CODE (NFPA 70), INTERNATIONAL BLDG CODE, LIFE SAFETY CODE (NFPA 101), AMERICANS WITH DISABILITIES ACT, AND ALL LOCAL CODES AND AMENDMENTS.

BASIC ELECTRICAL REQUIREMENTS

PERMITS AND CODES: OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND REQUIRED INSPECTIONS. COMPLY WITH ALL NATIONAL, STATE AND MUNICIPAL LAWS, CODES AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY. PROVIDE ANY REQUIRED TEMPORARY POWER AND UTILITIES FOR ALL TRADES AND ALL CONSTRUCTION TRAILERS. PROVIDE TEMPORARY CONSTRUCTION LIGHTING AND POWER. ELECTRICAL CONTRACTOR SHALL INCLUDE TEMPORARY ELECTRIC ALL TEMPORARY ELECTRIC SHALL BE IN ACCORDANCE WITH OSHA CONSTRUCTION STANDARDS 29CFR, PART 1926 AND ARTICLE 590 OF THE NATIONAL ELECTRICAL CODE. TEMPORARY LIGHTING AND POWER SHALL BE PROVIDED IN ACCORDANCE WITH OSHA STANDARDS. THE OSHA MINIMUM ILLUMINATION IS 5 FOOTCANDLES IN GENERAL CONSTRUCTION AREAS, AND 10 FC IN MECHANICAL / ELECTRICAL ROOMS AND WORKROOMS. INCLUDED ARE CONNECTIONS TO ALL CONSTRUCTION TRAILERS. THE COST OF THIS WORK IS TO BE INCLUDED IN THE BASE ELECTRICAL BID FOR THE PROJECT.

VISITING THE JOB SITE

VISIT THE SITE OF THE PROPOSED CONSTRUCTION IN ORDER TO FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED THIS CONTRACTOR FOR WORK OR ITEMS OMITTED FROM HIS ORIGINAL PROPOSAL DUE TO HIS FAILURE TO INFORM HIMSELF REGARDING SUCH MATTERS AFFECTING THE PERFORMANCE OF THE WORK IN THIS CONTRACT OR NECESSARY FOR THE INSTALLATION AND COMPLETION OF THE WORK INCLUDED HEREIN.

DRAWINGS

DRAWINGS ARE DIAGRAMMATIC, CONFIRM DIMENSIONS & LOCATIONS IN THE FIELD. IF CONFLICTING DIMENSIONS ARE SHOWN, USE LARGER DIMENSIONS AND VERIFY WITH ARCHITECT. SEE ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF FIXTURES AND WALL MOUNTED DEVICES.

MATERIAL

ALL MATERIALS SHALL BE NEW, MADE IN USA AND U.L. LISTED. MATERIAL INSTALLATION SHALL COMPLY WITH NEC REQUIREMENTS AND PERFORM BY CRAFTSMEN SKILLED IN THIS PARTICULAR WORK.

EQUIPMENT PROTECTION

PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.

COOPERATION WITH OTHER TRADES

COOPERATION WITH TRADES OF ADJACENT, RELATED OR AFFECTED MATERIALS OR OPERATIONS, AND WITH TRADES PERFORMING CONTINUATION OF THIS WORK UNDER SUBSEQUENT CONTRACTS, IS CONSIDERED A PART OF THIS WORK IN ORDER TO EFFECT TIMELY AND ACCURATE PLACING OF WORK AND TO BRING TOGETHER, IN PROPER AND CORRECT SEQUENCE, THE WORK OF SUCH TRADES. PROVIDE OTHER TRADES, AS REQUIRED, ALL NECESSARY TEMPLATES, PATTERNS, SETTING PLANS AND SHOP DETAILS FOR THE PROPER INSTALLATION OF THE WORK AND FOR THE PURPOSE OF COORDINATING ADJACENT WORK. ELECTRICAL POWER CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT ARE IN THIS DIVISION UNLESS NOTED OTHERWISE. VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT WITH OTHER DIVISIONS BEFORE ROUGHING IN THE ELECTRICAL CONNECTIONS AND ENERGIZING THE EQUIPMENT.

MECH/PLUMBING/SPECIAL EQPT ACCESS AND CLEARANCE AREAS: REMOVE ANY IMPROPERLY INSTALLED ELECTRICAL EQPT AND CONDUIT THAT ARE LIMITING PROPER ACCESS FOR EQPT SERVICE AND MAINTENANCE.

LOSS OR DAMAGE TO FACILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOSS OR DAMAGE TO THE FACILITIES CAUSED BY HIM AND HIS WORKMEN, AND SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING SUCH LOSS OR DAMAGE. THE CONTRACTOR SHALL SEND PROPER NOTICES, MAKE NECESSARY ARRANGEMENTS, AND PERFORM OTHER SERVICES REQUIRED FOR THE CARE, PROTECTION AND IN-SERVICE MAINTENANCE OF ALL ELECTRICAL SERVICES FOR THE NEW FACILITIES. THE CONTRACTOR SHALL ERECT TEMPORARY BARRICADES, WITH NECESSARY SAFETY DEVICES, AS REQUIRED TO PROTECT PERSONNEL AND THE GENERAL PUBLIC FROM INJURY, REMOVING ALL SUCH TEMPORARY PROTECTION UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL MODIFY, REMOVE AND/OR REPLACE ALL MATERIALS AND ITEMS SO INDICATED ON THE DRAWINGS OR REQUIRED BY THE INSTALLATION OF NEW FACILITIES. SALVAGE MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED TO SUCH DESTINATION AS DIRECTED BY THE OWNER. DISPOSE OF SALVAGE MATERIAL IF NOT RETAINED BY OWNER. WHERE EXISTING CONSTRUCTION IS REMOVED TO PROVIDE WORKING AND EXTENSION ACCESS TO EXISTING FACILITIES, CONTRACTOR SHALL REMOVE CEILING GRIDS, TILES, DOORS, PIPING, AIR CONDITIONING DUCTWORK AND EQUIPMENT, ETC., TO PROVIDE THIS ACCESS AND SHALL REINSTALL SAME UPON COMPLETION OF WORK IN THE AREAS AFFECTED.

WORK IN OCCUPIED AREAS

WORK IN, ABOVE, BELOW OR NEAR OCCUPIED AREAS SHALL BE AT OWNER'S CONVENIENCE AND MAY BE DURING EVENINGS OR WEEKENDS. SCHEDULE ALL REQUIRED POWER OUTAGES A MINIMUM OF 7 DAYS IN ADVANCE WITH FACILITY ENGINEER. DO NOT TURN OFF ANY POWER SOURCES. ONLY FACILITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE MAY DO SO.

CLEAN UP

- A) PROVIDE FOR ISOLATION OF WORK AREAS AND DAILY REMOVAL OF DEBRIS.
- B) CLEAN ALL EQUIPMENT AND FIXTURE LENSES.
- C) REPLACE ALL BURNED OUT LAMPS.
- D) TOUCH UP WITH PAINT WHERE REQUIRED.

SUBMITTAL DATA

SUBMITTALS ARE REQUIRED BUT NOT LIMITED TO THE FOLLOWING EQUIPMENT: BRANCH CIRCUIT PANELBOARDS, TRANSFORMERS, SWITCHES, CONDUIT/FITTINGS, WIRES, DEVICES, LIGHTING FIXTURES, ETC. ALTERNATE EQUIPMENT SHALL BE APPROVED BY ARCHITECT/OWNER.

SHOP DRAWINGS

SHOP DRAWINGS AS REQUIRED SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL COST TO THE ARCHITECT. THESE SHOP DRAWINGS SHALL BE PREPARED TO INDICATE INSTALLATION AT MAJOR EQUIPMENT WHERE SPECIAL COORDINATION PROBLEM EXIST. OVERCURRENT & SAFETY DISCONNECT DEVICES FOR HVAC EQPT: OVERCURRENT (OC) & DISCONNECT DEVICES SHOWN ON PLANS ARE BASED ON A SPECIFIC HVAC EQUIPMENT MANUFACTURER. HVAC CONTRACTOR MAY SUBMIT OTHER MANUFACTURERS, DIFFERENT MODELS OR RATINGS. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE OC/DISCONNECT DEVICES WITH THE HVAC CONTRACTOR PRIOR TO SUBMITTING SUCH DEVICES FOR ENGINEER'S REVIEW. ANY DEVIATIONS FROM SIZES SHOWN ON DRAWINGS MUST BE NOTED IN THE SUBMITTALS. THE ELECTRICAL CONTRACTOR MUST CERTIFY THAT HE HAS REVIEWED AND COORDINATED WITH THE HVAC CONTRACTOR AND THAT ALL OC/DISCONNECT DEVICES SUBMITTED MATCH THE HVAC EQPT REQUIREMENTS. SHOP DRAWINGS WITHOUT SUCH CERTIFICATION WILL BE RETURNED TO THE CONTRACTOR. ONLY SUBMITTALS WITH SUCH CERTIFICATION WILL BE REVIEWED.

COMPLETE SYSTEMS

ALL SYSTEMS SHALL BE COMPLETE AND WORKING AT COMPLETION OF CONSTRUCTION.

FINAL INSPECTION & OPERATING TESTS

ALL ELECTRICAL SYSTEMS MUST BE CHECKED FOR PROPER POLARITY AND SEQUENCE. ALL MOTORS MUST BE CHECKED FOR PROPER ROTATION AND ALL EQUIPMENT (INCLUDING HVAC, ELEVATOR AND SPECIAL EQUIPMENT) CHECKED FOR PROPER VOLTAGE AND PHASING REQUIREMENTS. PRIOR TO THE APPLICATION OF ANY POWER, THE CONTRACTOR MUST CERTIFY THAT ALL CONNECTED EQUIPMENT MATCH THE CHARACTERISTICS OF THE SUPPLY CIRCUIT VOLTAGE, PHASING AND FEEDER REQUIREMENTS. AT THE TIME DESIGNATED BY THE ARCHITECT, THE ENTIRE SYSTEM SHALL BE INSPECTED BY THE ARCHITECT AND THE ENGINEER. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE PRESENT AT THIS INSPECTION. AFTER ALL SYSTEMS HAVE BEEN COMPLETED AND PUT INTO OPERATION, SUBJECT EACH SYSTEM TO AN OPERATING TEST UNDER DESIGN CONDITIONS TO ENSURE PROPER SEQUENCE AND OPERATION THROUGHOUT THE RANGE OF OPERATION. MAKE ADJUSTMENTS AS REQUIRED TO ENSURE PROPER FUNCTIONING OF ALL SYSTEMS. SPECIAL TESTS ON INDIVIDUAL SYSTEMS ARE SPECIFIED UNDER INDIVIDUAL SECTIONS.

THE CONTRACTOR SHALL PROVIDE A SET OF AS-BUILT DRAWINGS IN PDF FORMAT TO THE ARCHITECT. AFTER THE INSPECTION, ANY ITEMS WHICH ARE NOTED AS NEEDING TO BE CHANGED OR CORRECTED IN ORDER TO COMPLY WITH THESE SPECIFICATIONS AND THE DRAWINGS SHALL BE ACCOMPLISHED WITHOUT DELAY.

GUARANTEE

GUARANTEE ALL WORK AND MATERIALS FURNISHED UNDER THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE TENANT AND ARCHITECT. GUARANTEE SHALL INCLUDE: ALL LABOR, PARTS, TRAVEL/SUBSISTENCE, SOFTWARE CHANGES / RE-PROGRAMMING, ETC.

SHORT CIRCUIT CALCULATION, PROTECTIVE DEVICE COORDINATION AND ARC FLASH STUDIES

PROVIDE SHORT CIRCUIT CALCULATION, PROTECTIVE DEVICE COORDINATION AND ARC FLASH HAZARD STUDIES. STUDIES SHALL ENCOMPASS ELECTRICAL DISTRIBUTION SYSTEM FROM NORMAL POWER SOURCE OR SOURCES TO AND INCLUDING (BRANCH BREAKERS IN EACH PANELBOARD), PREPARE STUDY PRIOR TO ORDERING DISTRIBUTION EQUIPMENT TO VERIFY EQUIPMENT RATINGS REQUIRED. SUBMIT REPORT WITH EQUIPMENT SUBMITTALS FOR ENGINEER'S REVIEW. PERFORM STUDY WITH AID OF COMPUTER SOFTWARE PROGRAMS. REPORT SHALL INCLUDE: (A) CALCULATION METHODS AND ASSUMPTIONS, (B) ONE LINE DIAGRAM, (C) STATE CONCLUSIONS AND RECOMMENDATIONS. STUDIES AND REPORT SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS PERMITTED.

CONTRACTOR SHALL PROVIDE WARNING LABELS ON ELECTRICAL EQUIPMENT INDICATING INCIDENT ENERGY LEVEL, LEVEL OF HAZARD AND THE REQUIRED PERSONAL PROTECTION EQUIPMENT. EQUIPMENT SHALL INCLUDE, BUT NOT LIMITED TO, SWITCHBOARDS, DISTRIBUTION PANELS, MOTOR CONTROL CENTERS, PANELS, CONTACTORS, DISCONNECT SWITCHES AND MOTOR STARTERS.

CONDUIT

CONDUIT: SHALL BE RIGID GALVANIZED STEEL (RGS) OR ELECTRICAL METALLIC TUBING (EMT) AS REQUIRED. MINIMUM SIZE SHALL BE 1/2" FOR 15 AMP, 3/4" FOR 20 AMP, 1" FOR 30 AMP, 1 1/2" FOR 40 AMP, 2" FOR 50 AMP, 2 1/2" FOR 60 AMP, 3" FOR 75 AMP, 3 1/2" FOR 90 AMP, 4" FOR 100 AMP, 4 1/2" FOR 110 AMP, 5" FOR 125 AMP, 6" FOR 150 AMP, 6 1/2" FOR 175 AMP, 7" FOR 200 AMP, 7 1/2" FOR 225 AMP, 8" FOR 250 AMP, 8 1/2" FOR 275 AMP, 9" FOR 300 AMP, 9 1/2" FOR 325 AMP, 10" FOR 350 AMP, 10 1/2" FOR 375 AMP, 11" FOR 400 AMP, 11 1/2" FOR 425 AMP, 12" FOR 450 AMP, 12 1/2" FOR 475 AMP, 13" FOR 500 AMP, 13 1/2" FOR 525 AMP, 14" FOR 550 AMP, 14 1/2" FOR 575 AMP, 15" FOR 600 AMP, 15 1/2" FOR 625 AMP, 16" FOR 650 AMP, 16 1/2" FOR 675 AMP, 17" FOR 700 AMP, 17 1/2" FOR 725 AMP, 18" FOR 750 AMP, 18 1/2" FOR 775 AMP, 19" FOR 800 AMP, 19 1/2" FOR 825 AMP, 20" FOR 850 AMP, 20 1/2" FOR 875 AMP, 21" FOR 900 AMP, 21 1/2" FOR 925 AMP, 22" FOR 950 AMP, 22 1/2" FOR 975 AMP, 23" FOR 1000 AMP, 23 1/2" FOR 1025 AMP, 24" FOR 1050 AMP, 24 1/2" FOR 1075 AMP, 25" FOR 1100 AMP, 25 1/2" FOR 1125 AMP, 26" FOR 1150 AMP, 26 1/2" FOR 1175 AMP, 27" FOR 1200 AMP, 27 1/2" FOR 1225 AMP, 28" FOR 1250 AMP, 28 1/2" FOR 1275 AMP, 29" FOR 1300 AMP, 29 1/2" FOR 1325 AMP, 30" FOR 1350 AMP, 30 1/2" FOR 1375 AMP, 31" FOR 1400 AMP, 31 1/2" FOR 1425 AMP, 32" FOR 1450 AMP, 32 1/2" FOR 1475 AMP, 33" FOR 1500 AMP, 33 1/2" FOR 1525 AMP, 34" FOR 1550 AMP, 34 1/2" FOR 1575 AMP, 35" FOR 1600 AMP, 35 1/2" FOR 1625 AMP, 36" FOR 1650 AMP, 36 1/2" FOR 1675 AMP, 37" FOR 1700 AMP, 37 1/2" FOR 1725 AMP, 38" FOR 1750 AMP, 38 1/2" FOR 1775 AMP, 39" FOR 1800 AMP, 39 1/2" FOR 1825 AMP, 40" FOR 1850 AMP, 40 1/2" FOR 1875 AMP, 41" FOR 1900 AMP, 41 1/2" FOR 1925 AMP, 42" FOR 1950 AMP, 42 1/2" FOR 1975 AMP, 43" FOR 2000 AMP, 43 1/2" FOR 2025 AMP, 44" FOR 2050 AMP, 44 1/2" FOR 2075 AMP, 45" FOR 2100 AMP, 45 1/2" FOR 2125 AMP, 46" FOR 2150 AMP, 46 1/2" FOR 2175 AMP, 47" FOR 2200 AMP, 47 1/2" FOR 2225 AMP, 48" FOR 2250 AMP, 48 1/2" FOR 2275 AMP, 49" FOR 2300 AMP, 49 1/2" FOR 2325 AMP, 50" FOR 2350 AMP, 50 1/2" FOR 2375 AMP, 51" FOR 2400 AMP, 51 1/2" FOR 2425 AMP, 52" FOR 2450 AMP, 52 1/2" FOR 2475 AMP, 53" FOR 2500 AMP, 53 1/2" FOR 2525 AMP, 54" FOR 2550 AMP, 54 1/2" FOR 2575 AMP, 55" FOR 2600 AMP, 55 1/2" FOR 2625 AMP, 56" FOR 2650 AMP, 56 1/2" FOR 2675 AMP, 57" FOR 2700 AMP, 57 1/2" FOR 2725 AMP, 58" FOR 2750 AMP, 58 1/2" FOR 2775 AMP, 59" FOR 2800 AMP, 59 1/2" FOR 2825 AMP, 60" FOR 2850 AMP, 60 1/2" FOR 2875 AMP, 61" FOR 2900 AMP, 61 1/2" FOR 2925 AMP, 62" FOR 2950 AMP, 62 1/2" FOR 2975 AMP, 63" FOR 3000 AMP, 63 1/2" FOR 3025 AMP, 64" FOR 3050 AMP, 64 1/2" FOR 3075 AMP, 65" FOR 3100 AMP, 65 1/2" FOR 3125 AMP, 66" FOR 3150 AMP, 66 1/2" FOR 3175 AMP, 67" FOR 3200 AMP, 67 1/2" FOR 3225 AMP, 68" FOR 3250 AMP, 68 1/2" FOR 3275 AMP, 69" FOR 3300 AMP, 69 1/2" FOR 3325 AMP, 70" FOR 3350 AMP, 70 1/2" FOR 3375 AMP, 71" FOR 3400 AMP, 71 1/2" FOR 3425 AMP, 72" FOR 3450 AMP, 72 1/2" FOR 3475 AMP, 73" FOR 3500 AMP, 73 1/2" FOR 3525 AMP, 74" FOR 3550 AMP, 74 1/2" FOR 3575 AMP, 75" FOR 3600 AMP, 75 1/2" FOR 3625 AMP, 76" FOR 3650 AMP, 76 1/2" FOR 3675 AMP, 77" FOR 3700 AMP, 77 1/2" FOR 3725 AMP, 78" FOR 3750 AMP, 78 1/2" FOR 3775 AMP, 79" FOR 3800 AMP, 79 1/2" FOR 3825 AMP, 80" FOR 3850 AMP, 80 1/2" FOR 3875 AMP, 81" FOR 3900 AMP, 81 1/2" FOR 3925 AMP, 82" FOR 3950 AMP, 82 1/2" FOR 3975 AMP, 83" FOR 4000 AMP, 83 1/2" FOR 4025 AMP, 84" FOR 4050 AMP, 84 1/2" FOR 4075 AMP, 85" FOR 4100 AMP, 85 1/2" FOR 4125 AMP, 86" FOR 4150 AMP, 86 1/2" FOR 4175 AMP, 87" FOR 4200 AMP, 87 1/2" FOR 4225 AMP, 88" FOR 4250 AMP, 88 1/2" FOR 4275 AMP, 89" FOR 4300 AMP, 89 1/2" FOR 4325 AMP, 90" FOR 4350 AMP, 90 1/2" FOR 4375 AMP, 91" FOR 4400 AMP, 91 1/2" FOR 4425 AMP, 92" FOR 4450 AMP, 92 1/2" FOR 4475 AMP, 93" FOR 4500 AMP, 93 1/2" FOR 4525 AMP, 94" FOR 4550 AMP, 94 1/2" FOR 4575 AMP, 95" FOR 4600 AMP, 95 1/2" FOR 4625 AMP, 96" FOR 4650 AMP, 96 1/2" FOR 4675 AMP, 97" FOR 4700 AMP, 97 1/2" FOR 4725 AMP, 98" FOR 4750 AMP, 98 1/2" FOR 4775 AMP, 99" FOR 4800 AMP, 99 1/2" FOR 4825 AMP, 100" FOR 4850 AMP, 100 1/2" FOR 4875 AMP, 101" FOR 4900 AMP, 101 1/2" FOR 4925 AMP, 102" FOR 4950 AMP, 102 1/2" FOR 4975 AMP, 103" FOR 5000 AMP, 103 1/2" FOR 5025 AMP, 104" FOR 5050 AMP, 104 1/2" FOR 5075 AMP, 105" FOR 5100 AMP, 105 1/2" FOR 5125 AMP, 106" FOR 5150 AMP, 106 1/2" FOR 5175 AMP, 107" FOR 5200 AMP, 107 1/2" FOR 5225 AMP, 108" FOR 5250 AMP, 108 1/2" FOR 5275 AMP, 109" FOR 5300 AMP, 109 1/2" FOR 5325 AMP, 110" FOR 5350 AMP, 110 1/2" FOR 5375 AMP, 111" FOR 5400 AMP, 111 1/2" FOR 5425 AMP, 112" FOR 5450 AMP, 112 1/2" FOR 5475 AMP, 113" FOR 5500 AMP, 113 1/2" FOR 5525 AMP, 114" FOR 5550 AMP, 114 1/2" FOR 5575 AMP, 115" FOR 5600 AMP, 115 1/2" FOR 5625 AMP, 116" FOR 5650 AMP, 116 1/2" FOR 5675 AMP, 117" FOR 5700 AMP, 117 1/2" FOR 5725 AMP, 118" FOR 5750 AMP, 118 1/2" FOR 5775 AMP, 119" FOR 5800 AMP, 119 1/2" FOR 5825 AMP, 120" FOR 5850 AMP, 120 1/2" FOR 5875 AMP, 121" FOR 5900 AMP, 121 1/2" FOR 5925 AMP, 122" FOR 5950 AMP, 122 1/2" FOR 5975 AMP, 123" FOR 6000 AMP, 123 1/2" FOR 6025 AMP, 124" FOR 6050 AMP, 124 1/2" FOR 6075 AMP, 125" FOR 6100 AMP, 125 1/2" FOR 6125 AMP, 126" FOR 6150 AMP, 126 1/2" FOR 6175 AMP, 127" FOR 6200 AMP, 127 1/2" FOR 6225 AMP, 128" FOR 6250 AMP, 128 1/2" FOR 6275 AMP, 129" FOR 6300 AMP, 129 1/2" FOR 6325 AMP, 130" FOR 6350 AMP, 130 1/2" FOR 6375 AMP, 131" FOR 6400 AMP, 131 1/2" FOR 6425 AMP, 132" FOR 6450 AMP, 132 1/2" FOR 6475 AMP, 133" FOR 6500 AMP, 133 1/2" FOR 6525 AMP, 134" FOR 6550 AMP, 134 1/2" FOR 6575 AMP, 135" FOR 6600 AMP, 135 1/2" FOR 6625 AMP, 136" FOR 6650 AMP, 136 1/2" FOR 6675 AMP, 137" FOR 6700 AMP, 137 1/2" FOR 6725 AMP, 138" FOR 6750 AMP, 138 1/2" FOR 6775 AMP, 139" FOR 6800 AMP, 139 1/2" FOR 6825 AMP, 140" FOR 6850 AMP, 140 1/2" FOR 6875 AMP, 141" FOR 6900 AMP, 141 1/2" FOR 6925 AMP, 142" FOR 6950 AMP, 142 1/2" FOR 6975 AMP, 143" FOR 7000 AMP, 143 1/2" FOR 7025 AMP, 144" FOR 7050 AMP, 144 1/2" FOR 7075 AMP, 145" FOR 7100 AMP, 145 1/2" FOR 7125 AMP, 146" FOR 7150 AMP, 146 1/2" FOR 7175 AMP, 147" FOR 7200 AMP, 147 1/2" FOR 7225 AMP, 148" FOR 7250 AMP, 148 1/2" FOR 7275 AMP, 149" FOR 7300 AMP, 149 1/2" FOR 7325 AMP, 150" FOR 7350 AMP, 150 1/2" FOR 7375 AMP, 151" FOR 7400 AMP, 151 1/2" FOR 7425 AMP, 152" FOR 7450 AMP, 152 1/2" FOR 7475 AMP, 153" FOR 7500 AMP, 153 1/2" FOR 7525 AMP, 154" FOR 7550 AMP, 154 1/2" FOR 7575 AMP, 155" FOR 7600 AMP, 155 1/2" FOR 7625 AMP, 156" FOR 7650 AMP, 156 1/2" FOR 7675 AMP, 157" FOR 7700 AMP, 157 1/2" FOR 7725 AMP, 158" FOR 7750 AMP, 158 1/2" FOR 7775 AMP, 159" FOR 7800 AMP, 159 1/2" FOR 7825 AMP, 160" FOR 7850 AMP, 160 1/2" FOR 7875 AMP, 161" FOR 7900 AMP, 161 1/2" FOR 7925 AMP, 162" FOR 7950 AMP, 162 1/2" FOR 7975 AMP, 163" FOR 8000 AMP, 163 1/2" FOR 8025 AMP, 164" FOR 8050 AMP, 164 1/2" FOR 8075 AMP, 165" FOR 8100 AMP, 165 1/2" FOR 8125 AMP, 166" FOR 8150 AMP, 166 1/2" FOR 8175 AMP, 167" FOR 8200 AMP, 167 1/2" FOR 8225 AMP, 168" FOR 8250 AMP, 168 1/2" FOR 8275 AMP, 169" FOR 8300 AMP, 169 1/2" FOR 8325 AMP, 170" FOR 8350 AMP, 170 1/2" FOR 8375 AMP, 171" FOR 8400 AMP, 171 1/2" FOR 8425 AMP, 172" FOR 8450 AMP, 172 1/2" FOR 8475 AMP, 173" FOR 8500 AMP, 173 1/2" FOR 8525 AMP, 174" FOR 8550 AMP, 174 1/2" FOR 8575 AMP, 175" FOR 8600 AMP, 175 1/2" FOR 8625 AMP, 176" FOR 8650 AMP, 176 1/2" FOR 8675 AMP, 177" FOR 8700 AMP, 177 1/2" FOR 8725 AMP, 178" FOR 8750 AMP, 178 1/2" FOR 8775 AMP, 179" FOR 8800 AMP, 179 1/2" FOR 8825 AMP, 180" FOR 8850 AMP, 180 1/2" FOR 8875 AMP, 181" FOR 8900 AMP, 181 1/2" FOR 8925 AMP, 182" FOR 8950 AMP, 182 1/2" FOR 8975 AMP, 183" FOR 9000 AMP, 183 1/2" FOR 9025 AMP, 184" FOR 9050 AMP, 184 1/2" FOR 9075 AMP, 185" FOR 9100 AMP, 185 1/2" FOR 9125 AMP, 186" FOR 9150 AMP, 186 1/2" FOR 9175 AMP, 187" FOR 9200 AMP, 187 1/2" FOR 9225 AMP, 188" FOR 9250 AMP, 188 1/2" FOR 9275 AMP, 189" FOR 9300 AMP, 189 1/2" FOR 9325 AMP, 190" FOR 9350 AMP, 190 1/2" FOR 9375 AMP, 191" FOR 9400 AMP, 191 1/2" FOR 9425 AMP, 192" FOR 9450 AMP, 192 1/2" FOR 9475 AMP, 193" FOR 9500 AMP, 193 1/2" FOR 9525 AMP, 194" FOR 9550 AMP, 194 1/2" FOR 9575 AMP, 195" FOR 9600 AMP, 195 1/2" FOR 9625 AMP, 196" FOR 9650 AMP, 196 1/2" FOR 9675 AMP, 197" FOR 9700 AMP, 197 1/2" FOR 9725 AMP, 198" FOR 9750 AMP, 198 1/2" FOR 9775 AMP, 199" FOR 9800 AMP, 199 1/2" FOR 9825 AMP, 200" FOR 9850 AMP, 200 1/2" FOR 9875 AMP, 201" FOR 9900 AMP, 201 1/2" FOR 9925 AMP, 202" FOR 9950 AMP, 202 1/2" FOR 9975 AMP, 203" FOR 10000 AMP, 203 1/2" FOR 10025 AMP, 204" FOR 10050 AMP, 204 1/2" FOR 10075 AMP, 205" FOR 10100 AMP, 205 1/2" FOR 10125 AMP, 206" FOR 10150 AMP, 206 1/2" FOR 10175 AMP, 207" FOR 10200 AMP, 207 1/2" FOR 10225 AMP, 208" FOR 10250 AMP, 208 1/2" FOR 10275 AMP, 209" FOR 10300 AMP, 209 1/2" FOR 10325 AMP, 210" FOR 10350 AMP, 210 1/2" FOR 10375 AMP, 211" FOR 10400 AMP, 211 1/2" FOR 10425 AMP, 212" FOR 10450 AMP, 212 1/2" FOR 10475 AMP, 213" FOR 10500 AMP, 213 1/2" FOR 10525 AMP, 214" FOR 10550 AMP, 214 1/2" FOR 10575 AMP, 215" FOR 10600 AMP, 215 1/2" FOR 10625 AMP, 216" FOR 10650 AMP, 216 1/2" FOR 10675 AMP, 217" FOR 10700 AMP, 217 1/2" FOR 10725 AMP, 218" FOR 10750 AMP, 218 1/2" FOR 10775 AMP, 219" FOR 10800 AMP, 219 1/2" FOR 10825 AMP, 220" FOR 10850 AMP, 220 1/2" FOR 10875 AMP, 221" FOR 10900 AMP, 221 1/2" FOR 10925 AMP, 222" FOR 10950 AMP, 222 1/2" FOR 10975 AMP, 223" FOR 11000 AMP, 223 1/2" FOR 11025 AMP, 224" FOR 11050 AMP, 224 1/2" FOR 11075 AMP, 225" FOR 11100 AMP, 225 1/2" FOR 11125 AMP, 226" FOR 11150 AMP, 226 1/2" FOR 11175 AMP, 227" FOR 11200 AMP, 227 1/2" FOR 11225 AMP, 228" FOR 11250 AMP, 228 1/2" FOR 11275 AMP, 229" FOR 11300 AMP, 229 1/2" FOR 11325 AMP, 230" FOR 11350 AMP, 230 1/2" FOR 11375 AMP, 231" FOR 11400 AMP, 231 1/2" FOR 11425 AMP, 232" FOR 11450 AMP, 232 1/2" FOR 11475 AMP, 233" FOR 11500 AMP, 233 1/2" FOR 11525 AMP, 234" FOR 11550 AMP, 234 1/2" FOR 11575 AMP, 235" FOR 11600 AMP, 235 1/2" FOR 11625 AMP, 236" FOR 11650 AMP, 236 1/2" FOR 11675 AMP, 237" FOR 11700 AMP, 237 1/2" FOR 11725 AMP, 238" FOR 11750 AMP, 238 1/2" FOR 11775 AMP, 239" FOR 11800 AMP, 239 1/2" FOR 11825 AMP, 240" FOR 11850 AMP, 240 1/2" FOR 11875 AMP, 241" FOR 11900 AMP, 241 1/2" FOR 11925 AMP, 242" FOR 11950 AMP, 242 1/2" FOR 11975 AMP, 243" FOR 12000 AMP, 243 1/2" FOR 12025 AMP, 244" FOR 12050 AMP, 244 1/2" FOR 12075 AMP, 245" FOR 12100 AMP, 245 1/2" FOR 12125 AMP, 246" FOR 12150 AMP, 246 1/2" FOR 12175 AMP, 247" FOR 12200 AMP, 247 1/2" FOR 12225 AMP, 248" FOR 12250 AMP, 248 1/2" FOR 12275 AMP, 249" FOR 12300 AMP, 249 1/2" FOR 12325 AMP, 250" FOR 12350 AMP, 250 1/2" FOR 12375 AMP, 251" FOR 12400 AMP, 251 1/2" FOR 12425 AMP, 252" FOR 12450 AMP, 252 1/2" FOR 12475 AMP, 253" FOR 12500 AMP, 253 1/2" FOR 12525 AMP, 254" FOR 12550 AMP, 254 1/2" FOR 12575 AMP, 255" FOR 12600 AMP, 255 1/2" FOR 12625 AMP, 256" FOR 12650 AMP, 256 1/2" FOR 12675 AMP, 257" FOR 12700 AMP, 257 1/2" FOR 12725 AMP,