



Community Family Centers
Centros Familiares de la Comunidad

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Community Sports &
Recreation Building
7318 AVENUE F
HOUSTON, TEXAS 77011

THAT'S ARCHITECTURE

2402 COMMONWEALTH #100, HOUSTON, TX 77006
TELEPHONE 713/222-4406 FAX 713/222-1506

ISSUES & REVISIONS
08/07/06 BID AND PERMIT
03/07/07 PERMIT COMMENTS

SHEET TITLE
ELECTRICAL
SCHEDULES

PROJECT NO. 06120.00
SCALE AS NOTED

SHEET NUMBER
E04.01

| ELECTRICAL LOAD ANALYSIS | | | | | |
|---|---------|----------------------|--------------------|-------------------|----------------------------|
| PROJECT NAME: MCGOVERN GYMNASIUM | | | | | |
| PROJECT NUMBER: 06120.00 | | | | | |
| SERVICE VOLTAGE: 277/480V, 3 PHASE, 4 WIRE, WYE | | | | | |
| SERVICE RATING: 600 AMPS | | | | | |
| GROSS AREA: 16,756 SQUARE FEET GYMNASIUM | | | | | |
| LOAD DESCRIPTION | CODE | CONNECTED LOAD (kVA) | DEMAND FACTORS (%) | DESIGN LOAD (kVA) | REMARKS |
| LIGHTS (3.5 VA/FT ²): | 58.6 | 20.2 | 125% | 73.3 | NEC 220.3.A, 220.11 |
| SIGN LIGHTS: | 0.0 | 0.0 | 125% | 0.0 | NEC 220.3.B.6, 220.11 |
| SITE LIGHTS: | 0.0 | 0.0 | 125% | 0.0 | NEC 220.11 |
| RECEPTACLES (1.0 VA/FT ²): | 16.8 | 16.1 | 10kVA+50% | 13.4 | NEC 220.14.I, NEC 220.14.K |
| EQUIPMENT: | 23.6 | 23.6 | 100% | 23.6 | NEC 220.14.K |
| WATER HEATERS: | 10.5 | 10.5 | 100% | 10.5 | NEC 220.15 |
| HVAC: | 287.1 | 100% | 287.1 | 287.1 | NEC 220.4.A |
| ELECTRIC HEAT: | 10.8 | 100% | 10.8 | 10.8 | NEC 220.15 |
| LARGEST MOTOR: | IN HVAC | 125% | 0.0 | 287.1 | NEC 220.4.A |
| TOTAL DESIGN LOAD: | | | | 419 | kVA |
| @ 480V, 3 PHASE: | | | | 824 | AMPS |

NOTE: ALL LOADS AND DEMAND FACTORS ARE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NEC ARTICLE 220

| PROJECT NAME: MCGOVERN GYMNASIUM | | | | | | | | | | |
|--|-------|---------------------|-------|-----|----|-----|-------|---------------------|--------|------|
| PROJECT NUMBER: 06120.00 | | | | | | | | | | |
| PANEL: MDP NEW MAIN DISTRIBUTION PANEL | | | | | | | | | | |
| VOLTAGE: 277/480V, 3PH, 4W BUS: 600 AMP MAINS: M.L.O. ACCESSORIES: SERVICE ENTRANCE RATED INSULATED GROUND BUS | | | | | | | | | | |
| CODE | LOAD | CIRCUIT DESCRIPTION | BKR | CKT | PH | CKT | BKR | CIRCUIT DESCRIPTION | LOAD | CODE |
| 3 | 17736 | RTU-1 | 70/3 | 1 | A | 2 | 100/3 | PANEL H1 | 1425.3 | 7 |
| 3 | 17736 | | | 3 | B | 4 | | | 9130 | 7 |
| 3 | 17736 | | | 5 | C | 6 | | | 12310 | 7 |
| 3 | 17736 | RTU-2 | 70/3 | 7 | A | 8 | 400/3 | PANEL H2 | 5999.4 | 7 |
| 3 | 17736 | | | 9 | B | 10 | | | 5999.4 | 7 |
| 3 | 17736 | | | 11 | C | 12 | | | 5999.4 | 7 |
| 7 | 15797 | 75kVA XFMR | 125/3 | 13 | A | 14 | 100/3 | TVSS | 0 | 2 |
| 7 | 18887 | | | 15 | B | 16 | | | 0 | 2 |
| 7 | 18007 | | | 17 | C | 18 | | | 0 | 2 |
| | | SPACE | | 19 | A | 20 | | | | |
| | | SPACE | | 21 | B | 22 | | | | |
| | | SPACE | | 23 | C | 24 | | | | |
| | | SPACE | | 25 | A | 26 | | | | |
| | | SPACE | | 27 | B | 28 | | | | |
| | | SPACE | | 29 | C | 30 | | | | |
| | | SPACE | | 31 | A | 32 | | | | |
| | | SPACE | | 33 | B | 34 | | | | |
| | | SPACE | | 35 | C | 36 | | | | |
| | | SPACE | | 37 | A | 38 | | | | |
| | | SPACE | | 39 | B | 40 | | | | |
| | | SPACE | | 41 | C | 42 | | | | |
| | | SPACE | | 43 | A | 44 | | | | |
| | | SPACE | | 45 | B | 46 | | | | |
| | | SPACE | | 47 | C | 48 | | | | |
| | | SPACE | | 49 | A | 50 | | | | |
| | | SPACE | | 51 | B | 52 | | | | |
| | | SPACE | | 53 | C | 54 | | | | |
| | | SPACE | | 55 | A | 56 | | | | |
| | | SPACE | | 57 | B | 58 | | | | |
| | | SPACE | | 59 | C | 60 | | | | |
| | | SPACE | | 61 | A | 62 | | | | |
| | | SPACE | | 63 | B | 64 | | | | |
| | | SPACE | | 65 | C | 66 | | | | |
| | | SPACE | | 67 | A | 68 | | | | |
| | | SPACE | | 69 | B | 70 | | | | |
| | | SPACE | | 71 | C | 72 | | | | |
| | | SPACE | | 73 | A | 74 | | | | |
| | | SPACE | | 75 | B | 76 | | | | |
| | | SPACE | | 77 | C | 78 | | | | |
| | | SPACE | | 79 | A | 80 | | | | |
| | | SPACE | | 81 | B | 82 | | | | |
| | | SPACE | | 83 | C | 84 | | | | |
| | | SPACE | | 85 | A | 86 | | | | |
| | | SPACE | | 87 | B | 88 | | | | |
| | | SPACE | | 89 | C | 90 | | | | |
| | | SPACE | | 91 | A | 92 | | | | |
| | | SPACE | | 93 | B | 94 | | | | |
| | | SPACE | | 95 | C | 96 | | | | |
| | | SPACE | | 97 | A | 98 | | | | |
| | | SPACE | | 99 | B | 100 | | | | |
| | | SPACE | | 101 | C | 102 | | | | |
| | | SPACE | | 103 | A | 104 | | | | |
| | | SPACE | | 105 | B | 106 | | | | |
| | | SPACE | | 107 | C | 108 | | | | |
| | | SPACE | | 109 | A | 110 | | | | |
| | | SPACE | | 111 | B | 112 | | | | |
| | | SPACE | | 113 | C | 114 | | | | |
| | | SPACE | | 115 | A | 116 | | | | |
| | | SPACE | | 117 | B | 118 | | | | |
| | | SPACE | | 119 | C | 120 | | | | |
| | | SPACE | | 121 | A | 122 | | | | |
| | | SPACE | | 123 | B | 124 | | | | |
| | | SPACE | | 125 | C | 126 | | | | |
| | | SPACE | | 127 | A | 128 | | | | |
| | | SPACE | | 129 | B | 130 | | | | |
| | | SPACE | | 131 | C | 132 | | | | |
| | | SPACE | | 133 | A | 134 | | | | |
| | | SPACE | | 135 | B | 136 | | | | |
| | | SPACE | | 137 | C | 138 | | | | |
| | | SPACE | | 139 | A | 140 | | | | |
| | | SPACE | | 141 | B | 142 | | | | |
| | | SPACE | | 143 | C | 144 | | | | |
| | | SPACE | | 145 | A | 146 | | | | |
| | | SPACE | | 147 | B | 148 | | | | |
| | | SPACE | | 149 | C | 150 | | | | |
| | | SPACE | | 151 | A | 152 | | | | |
| | | SPACE | | 153 | B | 154 | | | | |
| | | SPACE | | 155 | C | 156 | | | | |
| | | SPACE | | 157 | A | 158 | | | | |
| | | SPACE | | 159 | B | 160 | | | | |
| | | SPACE | | 161 | C | 162 | | | | |
| | | SPACE | | 163 | A | 164 | | | | |
| | | SPACE | | 165 | B | 166 | | | | |
| | | SPACE | | 167 | C | 168 | | | | |
| | | SPACE | | 169 | A | 170 | | | | |
| | | SPACE | | 171 | B | 172 | | | | |
| | | SPACE | | 173 | C | 174 | | | | |
| | | SPACE | | 175 | A | 176 | | | | |
| | | SPACE | | 177 | B | 178 | | | | |
| | | SPACE | | 179 | C | 180 | | | | |
| | | SPACE | | 181 | A | 182 | | | | |
| | | SPACE | | 183 | B | 184 | | | | |
| | | SPACE | | 185 | C | 186 | | | | |
| | | SPACE | | 187 | A | 188 | | | | |
| | | SPACE | | 189 | B | 190 | | | | |
| | | SPACE | | 191 | C | 192 | | | | |
| | | SPACE | | 193 | A | 194 | | | | |
| | | SPACE | | 195 | B | 196 | | | | |
| | | SPACE | | 197 | C | 198 | | | | |
| | | SPACE | | 199 | A | 200 | | | | |
| | | SPACE | | 201 | B | 202 | | | | |
| | | SPACE | | 203 | C | 204 | | | | |
| | | SPACE | | 205 | A | 206 | | | | |
| | | SPACE | | 207 | B | 208 | | | | |
| | | SPACE | | 209 | C | 210 | | | | |
| | | SPACE | | 211 | A | 212 | | | | |
| | | SPACE | | 213 | B | 214 | | | | |
| | | SPACE | | 215 | C | 216 | | | | |
| | | SPACE | | 217 | A | 218 | | | | |
| | | SPACE | | 219 | B | 220 | | | | |
| | | SPACE | | 221 | C | 222 | | | | |
| | | SPACE | | 223 | A | 224 | | | | |
| | | SPACE | | 225 | B | 226 | | | | |
| | | SPACE | | 227 | C | 228 | | | | |
| | | SPACE | | 229 | A | 230 | | | | |
| | | SPACE | | 231 | B | 232 | | | | |
| | | SPACE | | 233 | C | 234 | | | | |
| | | SPACE | | 235 | A | 236 | | | | |
| | | SPACE | | 237 | B | 238 | | | | |
| | | SPACE | | 239 | C | 240 | | | | |
| | | SPACE | | 241 | A | 242 | | | | |
| | | SPACE | | 243 | B | 244 | | | | |
| | | SPACE | | 245 | C | 246 | | | | |
| | | SPACE | | 247 | A | 248 | | | | |
| | | SPACE | | 249 | B | 250 | | | | |
| | | SPACE | | 251 | C | 252 | | | | |
| | | SPACE | | 253 | A | 254 | | | | |
| | | SPACE | | 255 | B | 256 | | | | |
| | | SPACE | | 257 | C | 258 | | | | |
| | | SPACE | | 259 | A | 260 | | | | |
| | | SPACE | | 261 | B | 262 | | | | |
| | | SPACE | | 263 | C | 264 | | | | |
| | | SPACE | | 265 | A | 266 | | | | |
| | | SPACE | | 267 | B | 268 | | | | |
| | | SPACE | | 269 | C | 270 | | | | |
| | | SPACE | | 271 | A | 272 | | | | |
| | | SPACE | | 273 | B | 274 | | | | |
| | | SPACE | | 275 | C | 276 | | | | |
| | | SPACE | | 277 | A | 278 | | | | |
| | | SPACE | | 279 | B | 280 | | | | |
| | | SPACE | | 281 | C | 282 | | | | |
| | | SPACE | | 283 | A | 284 | | | | |
| | | SPACE | | | | | | | | |