### Electrical Legends, Schedules, and Index

<table>
<thead>
<tr>
<th>Legend</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WALL MOUNT BELL</td>
<td>Wall-mounted bell system, usually for communication or security purposes.</td>
</tr>
<tr>
<td>WEATHER-PROOF</td>
<td>Weather-resistant equipment, often used in outdoor or hazardous environments.</td>
</tr>
<tr>
<td>UNDERCOUNTER</td>
<td>Equipment placed under counter level.</td>
</tr>
<tr>
<td>WALL MOUNT PUBLIC ADDRESS</td>
<td>Public address system mounted on the wall.</td>
</tr>
<tr>
<td>INTERCOMM</td>
<td>Intercommunication system, used for internal communication.</td>
</tr>
<tr>
<td>EXISTING TO REMAIN</td>
<td>Existing equipment to remain in the space.</td>
</tr>
<tr>
<td>FURNISHED BY OTHERS</td>
<td>Equipment supplied by another party.</td>
</tr>
<tr>
<td>+48'' AFF UON</td>
<td>48-inch above floor unit, often used for telecommunication systems.</td>
</tr>
<tr>
<td>TELECOM ROOM</td>
<td>Room dedicated for telecommunication equipment.</td>
</tr>
<tr>
<td>TELECOM CABINET</td>
<td>Cabinet for telecommunication equipment, typically surface mounted.</td>
</tr>
<tr>
<td>TELECOM RACK</td>
<td>Rack for telecommunication equipment, in a wall or ceiling mount.</td>
</tr>
<tr>
<td>MICROMECH-IN OUT</td>
<td>Microphone input jack, for connecting microphones.</td>
</tr>
<tr>
<td>A/V SYSTEM INTERFACE TOUCHPAD</td>
<td>Interface touchpad for the A/V system.</td>
</tr>
<tr>
<td>VOLUME CONTROL STATION</td>
<td>Volume control station for audio equipment.</td>
</tr>
<tr>
<td>CAMERATURE</td>
<td>CCTV system, typically used for surveillance.</td>
</tr>
<tr>
<td>WIRELESS ACCESS POINT</td>
<td>Wireless access point device.</td>
</tr>
<tr>
<td>NIGHT LIGHT</td>
<td>Night light fixture, often used as an emergency source.</td>
</tr>
<tr>
<td>MUD-RING</td>
<td>Mudding ring, used for electrical cable protection in concrete.</td>
</tr>
<tr>
<td>3/4'' CONDUIT</td>
<td>3/4-inch conduit, a type of electrical conduit.</td>
</tr>
<tr>
<td>PANELBOARD</td>
<td>Panelboard for electrical distribution, surface or flush mounted.</td>
</tr>
<tr>
<td>DISTRIBUTION TRANSFORMER</td>
<td>Transformer for electrical distribution.</td>
</tr>
<tr>
<td>FUSE PER EQUIPMENT NAMEPLATE</td>
<td>Fuse per equipment nameplate.</td>
</tr>
<tr>
<td>UNLESS OTHERWISE NOTED</td>
<td>Indicates that unless otherwise noted, standard practices apply.</td>
</tr>
</tbody>
</table>

### Telecommunication Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PHONE JACK</td>
<td>Phone jack, used for telephone connections.</td>
</tr>
<tr>
<td>MICROPHONE</td>
<td>Microphone, for audio communication.</td>
</tr>
<tr>
<td>CARTRIDGE</td>
<td>Cartridge, possibly for audio equipment.</td>
</tr>
<tr>
<td>DATA SYSTEM SCHEMATIC</td>
<td>Diagram of a data system.</td>
</tr>
<tr>
<td>AC POWER</td>
<td>AC power supply, for electrical circuits.</td>
</tr>
<tr>
<td>DC POWER</td>
<td>DC power supply, for electrical circuits.</td>
</tr>
<tr>
<td>FUSIBLE DISCONNECT</td>
<td>Fuse-protected disconnect switch.</td>
</tr>
<tr>
<td>CIRCUIT BREAKER</td>
<td>Circuit breaker, used for electrical protection.</td>
</tr>
<tr>
<td>TRANSFORMER</td>
<td>Transformer, for electrical modification.</td>
</tr>
<tr>
<td>POWER SUPPLY</td>
<td>Power supply, for electrical equipment.</td>
</tr>
<tr>
<td>TELEPHONE LINE</td>
<td>Telephone line, for telecommunication.</td>
</tr>
<tr>
<td>CABLE MOUNTED</td>
<td>Cable mounted, possibly for telecommunication.</td>
</tr>
<tr>
<td>BULLETIN BOARD</td>
<td>Bulletin board, a general notice area.</td>
</tr>
</tbody>
</table>

### Electrical Drawing Index

- **Sheet Title**
  - **Number**
    - E0.0
    - E0.1
    - E0.2
    - E0.3
  - **Drawing Type**
    - Electrical LEGENDS
    - Electrical SCHEDULES
    - Electrical INDEX
  - **Issued For Construction**
  - **Issued For Reference Only**

<table>
<thead>
<tr>
<th>Drawing Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1.0</td>
<td>Electrical Floor Plan, typically the layout of all electrical systems.</td>
</tr>
<tr>
<td>E2.0</td>
<td>Electrical Single-Line Plan, showing individual electrical circuits.</td>
</tr>
<tr>
<td>E3.0</td>
<td>Electrical Single-Line Plan, showing individual electrical circuits.</td>
</tr>
<tr>
<td>E4.0</td>
<td>Electrical Single-Line Plan, showing individual electrical circuits.</td>
</tr>
<tr>
<td>E5.0</td>
<td>Electrical Single-Line Plan, showing individual electrical circuits.</td>
</tr>
<tr>
<td>E6.0</td>
<td>Electrical Single-Line Plan, showing individual electrical circuits.</td>
</tr>
</tbody>
</table>

### Contact Information

- **WINDSOR, CO 80550**
- **1039 MAIN STREET**
- **(970) 460-7400**
- **G2CE.COM**

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This document contains detailed schematics and electrical drawings for the construction of a facility, including telecommunication systems and electrical layouts. Each drawing is referenced in the index to facilitate easy access during the construction and maintenance phases.
PART 1 - GENERAL

A. GENERAL

1. General Conditions. All work shall be in conformance with the requirements of the Project Specifications and the Standard Specifications. Work shall be performed by the Contractor in a workmanlike manner and shall be free from defects. The Contractor shall provide all materials, labor, and equipment necessary for the performance of the work specified herein.

PART 2 - PRODUCTS

A. GENERAL

1. Product Specification. The Product Specification shall include the following:

PART 3 - EXECUTION

A. GENERAL

1. General Conditions. All work shall be in conformance with the Project Specifications and the Standard Specifications. Work shall be performed by the Contractor in a workmanlike manner and shall be free from defects. The Contractor shall provide all materials, labor, and equipment necessary for the performance of the work specified herein.

B. SYSTEM DESCRIPTION

1. GENERAL. All controls, panels, and systems are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

C. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

PART 4 - DESIGN-BUILD FIRE ALARM AND DETECTION SYSTEM PERFORMANCE CRITERIA

A. GENERAL

1. Contractor shall provide all systems and equipment necessary for the performance of the fire alarm and detection system. The Contractor shall provide all labor, materials, and equipment necessary for the performance of the work specified herein.

B. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

C. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

D. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

E. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

F. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

G. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

H. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

I. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

J. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

K. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

L. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

M. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

N. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

O. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

P. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

Q. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

R. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

S. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

T. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

U. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

V. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

W. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

X. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

Y. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

Z. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

AA. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

BB. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

CC. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

DD. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

EE. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

FF. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

GG. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

HH. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

II. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

JJ. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

KK. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

LL. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

MM. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

NN. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

OO. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

PP. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

QQ. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

RR. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

SS. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

TT. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

UU. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

VV. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

WW. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

XX. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

YY. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

ZZ. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

AA. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:

BB. SYSTEM DESCRIPTION

1. GENERAL. All systems and equipment are to be located in accordance with the Project Specifications. All systems shall be designed and installed in accordance with the project drawings and specifications. All systems shall be tested and commissioned in accordance with the project drawings and specifications.

CC. OPERATIONAL DESCRIPTION

1. GENERAL. The operational description shall include the following:
**WORK NOTES:**

1. NEW LOAD ON EXISTING BREAKER.

**ELECTRICAL SCHEDULE**

### PANELBOARD SCHEDULE: EXISTING ELS

<table>
<thead>
<tr>
<th>12000 VOLTAGE</th>
<th>2</th>
<th>TN X</th>
<th>N</th>
<th>AX</th>
<th>PANEL LOCATION</th>
</tr>
</thead>
<tbody>
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</table>

### PANELBOARD SCHEDULE: EXISTING UPSA (SECTION 1)

<table>
<thead>
<tr>
<th>12000 VOLTAGE</th>
<th>2</th>
<th>TN X</th>
<th>N</th>
<th>AX</th>
<th>PANEL LOCATION</th>
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### PANELBOARD SCHEDULE: EXISTING UPSA (SECTION 2)

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<tr>
<th>12000 VOLTAGE</th>
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<th>TN X</th>
<th>N</th>
<th>AX</th>
<th>PANEL LOCATION</th>
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**CONNECTED WIRE DIAMETERS (2 WIRE & 3 WIRE) & TOTAL CONDUCTORS | 1500 | 2000 | 2500 | 3000 | TOTAL CONDUCTORS | 1500 | 2000 | 2500 | 3000 | TOTAL CONDUCTORS |
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</tbody>
</table>

**CONNECTED WIRE DIAMETERS (4 WIRE & 5 WIRE) & TOTAL CONDUCTORS | 1500 | 2000 | 2500 | 3000 | TOTAL CONDUCTORS | 1500 | 2000 | 2500 | 3000 | TOTAL CONDUCTORS |
<table>
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</tbody>
</table>

**WORK NOTES:**

1. NEW LOAD ON EXISTING BREAKER.