ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

A. GENERAL

1. GENERAL: CONSTRUCTION MILESTONE, INSTRUCTIONS, AND STANDARDS REQUIREMENTS PER THIS PROJECT.

2. SUBMITTALS: SUBMITTING ALL SUBMITTALS TO THE ARCHITECT AS INDICATED BY THE CONTRACT DOCUMENTS.

3. DEFINITIONS: THE FOLLOWING DESCRIPTIONS REPRESENT A MASTER LIST. NOT ALL DEVICES, SYSTEMS, AND COMPONENTS MENTIONED IN THIS LIST ARE NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE COMPLETE SYSTEMS NOTED ON THE CONTRACT DOCUMENTS.

4. DRAWINGS: DRAWINGS SHOWING THE LOCATION OF EACH NOTIFICATION APPLIANCE AND SMOKE AND HEAT DETECTORS, IN GENERAL. THE SIGNING OF THE RELATED DRAWINGS IN A FORM APPROPRIATE FOR THE PROJECT IS INDICATED TO THE ARCHITECT AS ONGOING DURING THE CONSTRUCTION PERIOD.

5. PROVIDE BRASS COVERPLATE FOR THE OUTLET TYPES INDICATED. PROVIDE CARPET OR TILE FLANGE TO FLUSH FLOOR OUTLETS SHALL BE CAST IRON, QUANTITY OF GANGS AND CONDUIT ENTRIES AS REQUIRED.

6. CONSTRUCTION: SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT. THE SIGNING OF THE RELATED DRAWINGS IN A FORM APPROPRIATE FOR THE PROJECT IS INDICATED TO THE ARCHITECT AS ONGOING DURING THE CONSTRUCTION PERIOD.

B. SYSTEM DESCRIPTION

1. FIRE ALARM AND DETECTION SYSTEM SHALL BE IN FULL COMPLIANCE WITH ALL LOCAL, STATE, FEDERAL, AND OTHER APPLICABLE LAWS, REGULATIONS, AND CODES. THE PROPER OPERATIONAL PERFORMANCE CRITERIA FOR THE SYSTEM TO BE MEETED.

2. LIGHT FIRES: LIGHT FIRES SHALL BE DUAL-SWITCHED UNLESS NOTED". INSTALL IN LOCATIONS AS DIRECTED BY OWNER.

C. OPERATING AND MAINTENANCE INSTRUCTIONS

1. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT.

2. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT.

3. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT.

4. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT.

5. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT.

PART 2 - PRODUCTS

A. GENERAL

1. PROVIDE BRASS COVERPLATE FOR THE OUTLET TYPES INDICATED. PROVIDE CARPET OR TILE FLANGE TO FLUSH FLOOR OUTLETS SHALL BE CAST IRON, QUANTITY OF GANGS AND CONDUIT ENTRIES AS REQUIRED.

2. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT.

3. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT.

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5. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT.

PART 3 - EXECUTION

A. GENERAL

1. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT.

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5. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT.

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

A. GENERAL

1. CONTRACTOR SHALL PERFORM, TEST, AND CONDUCT ALL-OF-OPTIONAL APPROVE FIRE ALARM AND DETECTION SYSTEM PERFORMS PERFORMANCE CRITERIA FOR THE SYSTEM TO BE MEETED.

2. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT.

3. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT.

4. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT.

5. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT.
WORK NOTES:

1. Bypass existing relay control for all interior lighting circuits except those with the new lighting control systems. Maintain functionality for existing exterior controls and any system unaffected by new control.
### PANELBOARD SCHEDULE: PTA - EXISTING

<table>
<thead>
<tr>
<th>Code</th>
<th>Voltage</th>
<th>Breaker</th>
<th>Feed Source</th>
<th>Phrase</th>
<th>Breaker Panel</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>120V</td>
<td>100A</td>
<td>E1.1</td>
<td>E1.1</td>
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### PANELBOARD SCHEDULE: PIB - EXISTING

<table>
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<th>Feed Source</th>
<th>Phrase</th>
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<th>Notes</th>
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<tbody>
<tr>
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<td>120V</td>
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<td>E1.1</td>
<td>E1.1</td>
<td>E1.1</td>
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</tr>
</tbody>
</table>

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**NOTE:**
- The schedule details specific panelboard requirements and feed source configurations for existing and new panelboards.
- E1.1 refers to a specific panelboard code or identifier.
### PANEL BOARD SCHEDULE: P2A (EXISTING)

<table>
<thead>
<tr>
<th>PANEL BLOCK</th>
<th>PANEL</th>
<th>PANEL LOCATION</th>
<th>PANEL</th>
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### PANEL BOARD SCHEDULE: P2B (EXISTING)

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### PANEL BOARD SCHEDULE: P3C (EXISTING)

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### PANEL BOARD SCHEDULE: P3D (EXISTING)

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<th>PANEL BLOCK</th>
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**Notes:**
- **Location:** Weld County Human Services Bldg C, Greeley, Colorado
- **Architect:** Markley Designs, 970.673.8248
- **Project No:** 2019022.00
- **Schedule:** Panelboard Schedules E1.2
<table>
<thead>
<tr>
<th>Panel Board Schedule: L1 (Existing)</th>
<th>Panel Board Schedule: L1 (Existing)</th>
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<tr>
<td><strong>No.</strong></td>
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</tbody>
</table>

**Notes:**
- Main# refers to the main number associated with each panel.
- The schedule details various panel types and their associated locations.

**Additional Information:**
- The image includes a section for panelboard schedules, with specific references to panelboards L1 and L2 (Existing).
- There are references to panelboard sizes and other technical details that are not fully legible in the image.
Demolition Notes:

A. Provide complete electrical demolition. Remove all cable back to source or nearest point in which it is to remain. Ensure continuity to any devices remaining on this circuit.

B. Maintain existing junction box above ceiling that serve power poles that shall be removed by the general contractor. Maintain circuit(s) at box for extension to new work in this area.

C. Existing to remain in new work areas, typical of devices noted with (E).
GENERAL NOTES:

1. BUILDING LIGHTING CONTROL SYSTEM SHALL BE REPLACED WITH NEW WIRELESS SYSTEM. REFER TO SCHEDULE.

2. EXISTING WIRING SHALL REMAIN.

3. ALL LUMINAIRES SHALL BE REPLACED WITH NEW 0-10V DIMMABLE LED LUMINAIRES. REFER TO SCHEDULE.

4. DEMOLITION NOTES:

   A. REMOVE EXISTING RECESSED CAN LUMINAIRES BACK TO SOURCE. THESE WILL NOT BE REPLACED IN NEW WORK.

   B. REMOVE ENTIRE EXISTING FLUORESCENT LIGHTING SYSTEM. REPLACE WITH NEW 0-10V LED LUMINAIRES.

   C. ALL LIGHT FIXTURES ARE TYPE 'A' UNLESS OTHERWISE INDICATED.

   D. MATRIX FOR DETAILS.

WORK NOTES:

1. REMOVE EXISTING FLUORESCENT LUMINAIRES BACK TO SOURCE. THESE WILL NOT BE REPLACED IN NEW WORK.

2. BUILDING LIGHTING CONTROL SYSTEM SHALL BE REPLACED WITH NEW WIRELESS SYSTEM. REFER TO SCHEDULE.
WORK NOTES:
1. All luminaires shall be replaced with new dimmable LED luminaires. Refer to schedule.
2. Existing wiring shall remain.

GENERAL NOTES:
1. All light fixtures are type 'A' unless otherwise indicated.

DEMOLITION NOTES:
1. Existing fluorescent lighting system shall be replaced with new 0-10V LED luminaires. Refer to schedules.

DEMOLITION NOTES:
1. Existing fluorescent lighting system shall be replaced with new 0-10V LED luminaires. Refer to schedules.

SECOND LEVEL LIGHTING PLAN

WORK NOTES:
1. All luminaires shall be replaced with new dimmable LED luminaires. Refer to schedule.
2. Existing wiring shall remain.

GENERAL NOTES:
1. All light fixtures are type 'A' unless otherwise indicated.

DEMOLITION NOTES:
1. Existing fluorescent lighting system shall be replaced with new 0-10V LED luminaires. Refer to schedules.

SECOND LEVEL LIGHTING PLAN

WORK NOTES:
1. All luminaires shall be replaced with new dimmable LED luminaires. Refer to schedule.
2. Existing wiring shall remain.

GENERAL NOTES:
1. All light fixtures are type 'A' unless otherwise indicated.

DEMOLITION NOTES:
1. Existing fluorescent lighting system shall be replaced with new 0-10V LED luminaires. Refer to schedules.
E4.2

THIRD LEVEL LIGHTING PLAN

WORK NOTES:
1. All ceiling fans and light fixtures shall be replaced with 0-10V dimmable LED luminaires. Refer to schedule.

2. Building lighting control system shall be replaced with new wireless system. Refer to matrix for details.

DEMOLITION NOTES:
1. Remove existing fluorescent lighting system. Replace with new 0-10V LED luminaires. Refer to schedules.

GENERAL NOTES:
1. All light fixtures are type 'A' unless otherwise indicated.