#### **SECTION 00 91 02 - ADDENDUM NO. 02**

November 9, 2020

Municipal Court Remodel (5694 Second Ave., Ferndale, WA) City of Ferndale PO Box 939 Ferndale, WA 98248

#### Bidders and Suppliers:

The following changes for the subject project shall become a part of the Contract Documents including Drawings dated September 3, 2020 and Project Manual dated October 2020 and Addendum No. 1 dated October 28, 2020. Where a portion of the Documents are modified or deleted by Addenda, the unaltered portions of the Documents shall remain as indicated.

Acknowledge receipt of this addendum by inserting the number and date in Section 00 41 00, Bid Proposal. Failure to do so may subject the bidder to disqualification.

#### ATTACHMENTS AS PART OF THIS ADDEDNUM:

- 1. Section 00 01 10 Table of Contents
- 2. Section 00 31 13 Preliminary Project Phases
- 3. Section 01 10 00 Summary of Work
- 4. Section 03 54 16 Hydraulic Cement Underlayment
- 5. Section 06 20 00 Finish Carpentry
- 6. Section 09 65 13 Resilient Base and Accessories
- 7. Section 09 68 00 Carpet
- 8. Drawing Sheet M003 Schedules
- 9. Drawing Sheet E001 Cover Sheet
- 10. Drawing Sheet ED301 Ground Floor Electrical Demolition Plan
- 11. Drawing Sheet E201 Ground Floor Lighting Plan
- 12. Drawing Sheet E301 Ground Floor Power and Systems Plan
- 13. Drawing Sheet E401 One-Line Diagram and Panel Schedule

#### A. GENERAL CLARIFICATION:

- 1. What is the existing flooring at Courtroom 101 and Hallways 102?

  RESPONSE: Both Courtroom 101 and Hallway 101 have roll carpeting and a stained 1x2 wood base. Portions of the existing wood base are missing. Contractor shall replace carpeting as shown on drawings AND salvage existing wood base for reinstallation. At conditions of missing wood base, provide new 1x2 wood base stained to match existing conditions.
- What is the intended wall base at Rooms 108 and 123?
   RESPONSE: Contractor shall provide rubber 4" cove base at these rooms per Section 09 65 13 – Resilient Base and Accessories.
- 3. What is the extent of exterior painting?

  RESPONSE: All new work involving or modifying the envelope shall be painted to match the adjacent conditions. The new addition exterior enclosure shall be of a to be selected accent color.

#### B. CHANGES TO THE PROJECT MANUAL:

Section 00 01 10 – Table of Contents
 A REVISED Section is issued to reflect Addendum No. 2.

2. Section 00 31 13 – Preliminary Project Phases

A **REVISED** Section is issued to align with Section 00 73 00, 15-Completion dates. Note that working days includes 5 days per calendar week, excluding Holidays and 2 days of 'rest' per week. Working days include Fridays where Court activities restrict all or most construction activities.

Section 01 10 00 – Summary of Work
 A REVISED Section is issued to reflect corrected section number.

4. Section 03 54 16 – Hydraulic Cement Underlayment A **REVISED** Section is issued to reflect approved products.

5. Section 06 20 00 – Finish Carpentry

ADD to Part 2.1 the following:

- "G. Wood Ceiling: 1x6 T&G, Select Western Hemlock, Grade 1, plain sawn, tightknot with clear finish.
- H. Courtroom Rail and Podium: Plain sawn, Grade 1, White Oak, tightknot with medium stain."
- 6. **NEW** Section 09 65 13 Resilient Base and Accessories is added to the project manual.
- 7. Section 09 68 00 Carpet

**MODIFY** the following Part 1.1, B, 3 to read:

"3. Section 09 65 13 – Resilient Base and Accessories"

#### C. CHANGES TO THE DRAWINGS:

- 1. Sheet M003 Schedules
  - The Variable Refrigerant Volume Indoor Unit Schedule was **REVISED** to update the selection of the indoor unit to ducted concealed type, Daikin FDMQ24RVJU.
  - REPLACE the previously issued sheet M003.
- 2. Sheet E001 Cover Sheet & General Info
  - **REVISED** Luminaire Schedule:
    - a. Type EA1 item specified item with emergency battery option.
    - b. Type DA1 removed from schedule.
    - c. Type DA1E added type to provide emergency battery option.
    - d. Type HA2 revised to add integral occupancy and daylight sensors.
    - e. Type HA2E added type to provide emergency battery option, integral occupancy and daylight sensors.
    - f. Type RA1 revised type to provide emergency battery option.
    - g. Type RAE1 added type to provide integral occupancy sensor and emergency battery option.
  - REPLACE the previously issued sheet E001.

- 3. Sheet ED301 Ground Floor Electrical Demo Plan
  - **REVISED** Electrical Demolition Plan:
    - a. Existing Panel A is to be demolished.
    - b. Reference notes added to require branch circuit extensions to new panel.
    - c. Reference note added to require 30day monitoring of existing Panel A prior to demolition.
  - REPLACE the previously issued sheet ED301.
- 4. Sheet E201 Ground Floor Lighting Plan
  - **REVISED** Lighting Plan:
    - a. New fixture types are noted.
    - b. Daylighting and occupancy sensors are omitted as they are integrated in luminaire(s) as noted above.
    - c. Low-voltage switches are omitted.
  - REPLACE the previously issued sheet E201.
- 5. Sheet E301 Ground Floor Power and Systems Plan
  - **REVISED** Power and Systems Plan:
    - a. Panel P is shown in new location.
    - b. Notes are provided to required pull box in location vacated by the removal of existing Panel A. Extend all existing branch circuits; tag/label exiting conductors prior to demolition, terminate existing branch circuits in new panel to maintain existing phase/pole and shared neutral connection configuration. All conductors shall be #12cu unless noted otherwise. Provide #6cu conductors for extended air conditioning circuit.
    - c. Provide #10cu conductors for CU-1/FC-1 unit.
    - d. Notes are provided to coordinate access control device(s) type/manufacturer, etc. with door hardware specifications and Owner vendor of choice. Provide cable raceway for all devices.
    - e. Surveillance camera boxes, patch panel, cable and cable j-hooks are added.
  - **REPLACE** the previously issued sheet E301.
- 6. Sheet E401 One Line Diagram and Panels Schedule
  - **REVISED** One Line Diagram and Panel Schedule:
    - a. One Line diagram is revised to reflect distribution adjustments. Provide new 100amp feeder (3#2, 1#8) from existing MDP to new Panel P.
    - b. Flag Note #1 is revised to reflect work noted on Power Plan.
    - c. Revised panel schedule is provided to reflect distribution adjustments.
    - d. Feeder schedule is removed as it is not required.
  - **REPLACE** the previously issued sheet E401.

**END OF SECTION** 

### **SECTION 00 01 10 - TABLE OF CONTENTS**

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00 45 33	List of Subcontractors – Bids on Public Works-Identification
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### **DIVISION 02 – EXISTING CONDITIONS**

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	Limited Hazardous Materials Survey Report
	By PBS Engineering & Environmental, dated October 6, 2020
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02 83 13	Lead-Related Activities

## MUNICIPAL COURT REMODEL CITY OF FERNDALE

#### **DIVISION 03 - CONCRETE**

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### DIVISION 04 - MASONRY

04 22 00 Concrete Unit Masonry

### **DIVISION 05 – METALS**

05 50 00 Metal Fabrications

### DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES

06 10 00	Rough Carpentry
06 20 00	Finish Carpentry

#### DIVISION 07 – THERMAL AND MOISTURE PROTECTION

07 11 13	Bituminous Dampproofing
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07 46 46	Mineral Fiber-Cement Siding
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#### DIVISION 08 – OPENINGS

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#### **DIVISION 09 – INTERIOR FINISHES**

09 29 00	Gypsum Board
09 51 00	Acoustical Ceilings
09 65 13	Resilient Base and Accessories
09 68 00	Carpet
09 90 00	Painting and Coating

#### DIVISION 10 - SPECIALTIES

10 14 00	Signage
10 44 00	Fire Protection Specialties

DIVISIONS 11-21 - NOT USED

DIVISIONS 22-25 – SEE MECHANICAL DRAWING PERFORMANCE NOTES

DIVISIONS 26-28 – SEE ELECTRICAL DRAWING PERFORMANCE NOTES

DIVISIONS 29-33 - NOT USED

**END OF SECTION 00 01 10** 

#### **SECTION 00 31 13 - PRELIMINARY PROJECT PHASES**

The following Preliminary Project Phasing Plan is provided for planning purposes. This phasing plan is not meant to dictate means and methods to perspective Bidders or take the place any required planning on the part of the Bidder to provide a responsive Bid. This phasing plan is simply an outline of the work to be performed that takes into the account the lead-time and critical path nature of the submittals, ordering, and delivery of the project equipment.

#### Preliminary Project Phasing Plan

- A. Work Summary (October 2020 to June 2021)
  - 1. Bid Advertisement: October 14, 2020 Wednesday
  - 2. Pre-Bid Site Walk: October 26, 2020 Monday
  - 3. Last Day to Issue Bid Addendum: November 11, 2020 Wednesday
  - 4. Open Bids: November 23, 2020 Monday
  - 5. Notice of Award: December 8, 2020 Tuesday
  - 6. Preconstruction Meeting: December 29, 2020 Tuesday
  - 7. Construction Submittals: throughout Construction period
  - 8. Notice to Proceed: Mobilize on-site: December 30, 2020 Wednesday
  - 9. Construct Remodel and Addition Improvements (Building, sidewalk, etc.)
  - 10. Substantial Completion Deadline: August 17, 2021 Tuesday
  - 11. Final Completion: September 16, 2021 Thursday

#### **END OF SECTION 00 31 13**

#### SECTION 01 10 00 - SUMMARY OF WORK

#### PART 1 - GENERAL

#### 1.1 WORK COVERED BY CONTRACT DOCUMENTS

- A. The work covered by the Contract Documents consists of furnishing all labor, equipment and materials necessary for the construction of the Municipal Court Remodel project as shown on the plans and specified herein.
- B. Contractor shall furnish all labor, tools, equipment and materials not pre-purchased or supplied by the Owner. In addition, the Contractor shall provide demolition, shoring, bracing, sheeting, cribbing, falsework, pumping, dewatering, drainage, forms, and all material as required or necessary to demolish, excavate, backfill, grade, construct, lay, erect, install, test, and clean-up site. The work shall consist of, in general, the construction renovations and addition to the Municipal Courthouse and associated site work.

#### 1.2 WORK AND RESPONSIBILITIES

- A. Unless otherwise indicated, work and responsibilities include, but are not limited to the following:
  - 1. Providing and paying for labor, materials, equipment, tools, machines, facilities, and services necessary for execution and completion of work.
  - 2. Paying required taxes.
  - 3. Giving required notices.
  - 4. Enforcing strict discipline and good order among employees.
  - 5. Using new materials, except as noted.
  - 6. Maintaining required egress and other requirements in accordance with governing Codes and Ordinances throughout the work.
  - 7. Obtaining and paying for required permits, fees and notices, see General Conditions.

#### 1.3 SEQUENCE/PHASING

- A. These documents are not to be interpreted implicitly or explicitly as definition of procedure and sequence of operations. Order as to procedure and sequence of operations are Contractor options, consistent with contract documents and as approved by Owner. A preliminary construction phasing plan is included in Section 00 31 13 PRELIMINARY PROJECT PHASING.
- B. Site Work: Proposed stockpiling areas must be approved by the Owner.

#### 1.4 COOPERATION AND COORDINATION

- A. Contractor is responsible for coordinating and scheduling work of subcontractors to expedite progress of the Project.
- B. Subcontractor Instructions: Subcontractors to become familiar with Conditions of the Contract and the work of other Sections related to their own work.

- C. Project Coordination and Scheduling Control: Responsibility for coordination and close adherence to time schedules rests solely with the General Contractor who shall maintain coordination and scheduling control at all times.
- D. Each separate contractor and subcontractor responsible to the General Conditions shall cooperate diligently with the General Contractor in the execution of their work so as to cause no delay in the completion of the Project. This responsibility includes the completion of all work in a timely manner and all items of equipment connected and fully operating at the time of Substantial Completion. Each separate contractor and each subcontractor shall diligently comply with the following requirements:
  - 1. Inform other trades of requirements at proper time to prevent delay or revisions.
  - 2. Be informed on the requirements of other trades and check own work for conflicts with the work of other trades.
  - 3. Insure delivery of materials and performance of work on coordinated schedule with other trades.
  - 4. Contractor is to ensure the subcontractors and equipment suppliers are responsible for compatibility and completeness of the installation and operation of the equipment in their respective Specification Sections including conformance with code requirements. If power, piping, conduit, or other work required for complete installation is not provided by others to equipment location or is not adequate for complete installation, the subcontractor or equipment supplier shall be responsible for providing the necessary connections.
- E. Notification and Correction of Defective Work: Before starting a section of work, each contractor and subcontractor shall carefully examine all preparatory work that has been executed to receive his work. Check carefully, by whatever means required, to ensure that the work and adjacent, related work will finish to proper contours, planes, and levels. Promptly notify the Contractor of any defects or imperfections in preparatory work which will in any way affect satisfactory completion of the work. Under no condition shall a section of work proceed prior to preparatory work having been completed, cured, dried, or otherwise made satisfactory to receive such related work. Correction of defective work shall be the responsibility of the contractor or subcontractor providing the defective work. Correction of work due to underlying defects shall be the responsibility of the contractor providing work.
- F. Intent of Drawings: The work of each contractor and subcontractor shall conform to the intent of the contract drawings. Drawings showing work of other trades are partly diagrammatic and do not intend to show in details all features of work. Each contractor shall carefully review and compare related drawings and shall thoroughly understand the building conditions affecting their work. All changes required in the work caused by failure to do so shall be at no expense to the Owner. The design is based upon dimensions and requirements for the equipment of the "first-named" manufacturer. All changes required in the work caused by the use of an approved "substitute" to the first-named manufacturer shall be at no expense to the Owner.
- G. Interferences and Right-Of-Way: Make proper provisions to minimize interferences. Where conflicts occur, gravity drainage improvements have right-of-way over mechanical and electrical work; electrical work has right-of-way over landscaping work. Submit conflicts which cannot be resolved by right-of-way to Engineer for instructions.

H. Cooperate and coordinate with any other separate Contractors under Contract with the Owner.

#### 1.5 CONSTRUCTION STAGING AREA

A. Coordinate staging areas with the City representatives.

#### 1.6 EXISTING UTILITIES

#### A. Administrative Requirements:

- 1. The Contractor is advised that underground excavation is regulated under RCW Chapter 19.122. Included therein are the following requirements:
  - 48-hours before beginning any excavation work, the Contractor shall inform local utilities through the utility one-call locator service at (800) 424-5555 or 811;
  - b. Protect existing utilities in the vicinity of excavation work;
  - c. In the event of any damages, notify the utility purveyor and the utility onecall locator service immediately;
  - d. Immediately repair any damaged utilities deemed to be an emergency;
  - e. Coordinate non-emergency repairs with the utility purveyor;
  - f. Provisions for assigning the financial liability of any repair work.
  - g. Further, the Contractor is required to contact the Owner's Project Manager 48-hours before starting construction.

#### B. Field Protection Requirements:

1. Utilities of record are shown on the Drawings insofar as possible to do so. These, however, are shown for convenience only and the Owner and his representatives assume no responsibility for improper locations or failure to show utility locations on the Drawings. At Contractor's expense, immediately repair utilities damaged during construction.

#### 1.7 MISCELLANEOUS

- A. Additional work items include, but are not limited to:
  - 1. Maintaining a pedestrian and vehicular access to and around existing projects.
  - 2. Not unreasonably encumbering site with materials or equipment.
  - 3. Assuming full responsibility for protection and safekeeping of products stored on premises.
  - 4. Moving any stored products interfering with any other Contractors.
  - 5. Obtaining and paying for use of additional storage or work areas needed for operations.
  - 6. Restoration of any damage to existing improvements adjacent to work site.
  - 7. Moving and replacing items incidental to completion of the work including mailboxes, fences, small shrubs and trees, street signs, yard decorations, etc.

#### **END OF SECTION 01 10 00**

#### **SECTION 03 54 16 - HYDRAULIC CEMENT UNDERLAYMENT**

#### PART 1 - GENERAL

#### 1.1 SUMMARY

A. Section includes hydraulic-cement-based, polymer-modified, self-leveling underlayment for application below interior floor coverings.

#### B. Related Sections:

Section 09 68 00 – Carpeting

#### 1.2 SUSTAINABILITY REQUIREMENTS

- A. General: Comply with all applicable Sustainable requirements as specified in this Contract Document, including the following.
  - 1. 01 81 13 Sustainability Requirements

#### B. Submittals:

1. Product Data: Submit product data highlighting sustainability specific data as required for this Specification Section. Clearly distinguish sustainability data from other general product data required for each Specification Section.

#### 1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

#### 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Installer who is approved by manufacturer for application of underlayment products required for this Project.
- B. Product Compatibility: Manufacturers of underlayment and floor-covering systems certify in writing that products are compatible.
- C. Floor level after completion shall comply with tolerances specified in Part 3 of this specification.

#### PART 2 - PRODUCTS

#### 2.1 HYDRAULIC-CEMENT-BASED UNDERLAYMENTS

- A. Underlayment: Hydraulic-cement-based, polymer-modified, self-leveling product that can be applied in minimum uniform thickness of 1/4 inch and that can be feathered at edges to match adjacent floor elevations.
  - 1. Products: Subject to compliance with requirements, provide one of the following:
    - a. Bonsal American, an Oldcastle company; ProSpec Level Set LW-60.
    - b. MAPEI Corporation; Ultraplan 1 Plus.
    - c. RAECO, Inc.; S.L.U.
    - d. Ardex V1200 Self leveling compound.
    - e. LSM Construction Chemicals Inc. Levelex.
  - 2. Cement Binder: ASTM C 150, portland cement, or hydraulic or blended hydraulic cement as defined by ASTM C 219.
  - 3. Compressive Strength: Not less than 4000 psi at 28 days when tested according to ASTM C 109/C 109M.
  - 4. Underlayment Additive: Resilient-emulsion product of underlayment manufacturer, formulated for use with underlayment when applied to substrate and conditions indicated.
- B. Aggregate: Well-graded, washed gravel, 1/8 to 1/4 inch; or coarse sand as recommended by underlayment manufacturer.
  - 1. Provide aggregate when recommended in writing by underlayment manufacturer for underlayment thickness required.
- C. Water: Potable and at a temperature of not more than 70 deg F.
- D. Reinforcement: For underlayment applied to wood substrates, provide galvanized metal lath or other corrosion-resistant reinforcement recommended in writing by underlayment manufacturer.
- E. Primer: Product of underlayment manufacturer recommended in writing for substrate, conditions, and application indicated.

#### PART 3 - EXECUTION

#### 3.1 PREPARATION

- A. General: Contractor to prepare and clean substrate according to manufacturer's written instructions.
  - 1. Treat nonmoving substrate cracks to prevent cracks from telegraphing (reflecting) through underlayment.
  - 2. Fill substrate voids to prevent underlayment from leaking.
- B. Concrete Substrates: Mechanically remove laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants that might impair underlayment bond.
- C. Adhesion Tests: After substrate preparation, test substrate for adhesion with underlayment.

### 3.2 APPLICATION

- A. General: Mix and apply underlayment components according to manufacturer's written instructions.
  - 1. Close areas to traffic during underlayment application and for time period after application recommended in writing by manufacturer.
  - 2. Coordinate application of components to provide optimum underlayment-tosubstrate and intercoat adhesion.
  - 3. At substrate expansion, isolation, and other moving joints, allow joint of same width to continue through underlayment.
- B. Apply primer over prepared substrate at manufacturer's recommended spreading rate.
- C. Apply underlayment to produce uniform, level surface.
  - 1. Concrete shall be level within .25" over a 50 foot span.
  - 2. Apply a final layer without aggregate to product surface.
  - 3. Feather edges to match adjacent floor elevations.
  - 4. True-to-edge maximum gap between floor and straight edge = 0.0625".
- D. Cure underlayment. Prevent contamination during application and curing processes.
- E. Do not install floor coverings over underlayment until after time period recommended in writing by underlayment manufacturer.
- F. Remove and replace underlayment areas that evidence lack of bond with substrate, including areas that emit a "hollow" sound when tapped.

#### **END OF SECTION 03 54 16**

#### **SECTION 06 20 00 - FINISH CARPENTRY**

#### PART 1 - GENERAL

#### 1.1 RELATED SECTIONS

A. Section 02 41 19 – Selective Demolition

#### 1.2 REFERENCES

- A. American Plywood Association (APA).
- B. Architectural Woodwork Institute (AWI).
- C. United States Product Standard (PS).
  - 1. PS-1 "Construction and Industrial Plywood."
- D. South Coast Air Quality Management District (SCAQMD)
  - 1. Rule 1168 Low / No VOC Adhesives and Caulks
    - a. Maximum allowed VOC Levels (G/L) as indicated

VOC Limit Product Type	G/L
Wood Flooring Adhesives	100
Rubber Flooring Adhesives	60
Subfloor Adhesives	50
Drywall and Panel Adhesives	50
Cove Base Adhesives	50
Multipurpose Construction Adhesives	70
Structural Glazing Adhesives	100
Structural Wood Member Adhesive	140
Architectural Sealants, Including Caulk	250

#### 1.3 SUBMITTALS

- A. Shop Drawings: Show materials, methods of fabrication, and details of installation.
- B. Samples: Furnish required samples with finishes specified.
- C. Proof of compliance with ESDS 6.2 Low/No VOC adhesives and Sealants and 7.1 Composite Wood Products that contain Emit Low / No Formaldehyde (NAUF).

#### 1.4 QUALITY ASSURANCE

- A. Qualifications: Provide finish carpentry Work in accordance with AWI "Quality Standards," in the grades specified.
- B. Show compliance with SCAQMD Rule 1168 Low/No VOC Adhesives and Caulks
- C. Show compliance with no added urea formaldehyde (NAUF) for Composite Wood Products.

#### PART 2 - PRODUCTS

#### 2.1 MATERIALS

- A. Trim:
  - 1. Exterior: Tight Knot Western Red Cedar, Paint Grade, Sizes as indicated.
  - 2. Interior: Western Hemlock, or finger jointed primed, paint grade, sizes as indicated.
- B. Telephone Terminal Board: Douglas fir BC Grade interior plywood, 3/4 inch thick, size as shown. Edge band with 1/2 inch hardwood on exposed edges.
- C. Window Sills and Apron: Plastic laminate over exterior plywood substrate.
  - PLAM color: To Be Selected.
- D. Corner Guards: InPro Corp or approved equal. Clear 1 1/8" x 1 1/8" x .075". 4' lengths with fasteners
- E. Fasteners:
  - 1. As shown, specified, and as required to securely install materials.
  - Size of fasteners for siding and paneling shall be as recommended by manufacturer.
- F. Joint Sealant: As specified in Section 07 92 00.
- G. Wood Ceiling: 1x6 T&G, Select Western Hemlock, Grade 1, plain sawn, tightknot with clear finish.
- H. Courtroom Rail and Podium: Plain sawn, Grade 1, White Oak, tightknot with medium stain.

#### 2.2 FABRICATION

- A. Conform with AWI "Quality Standards," Section 300, Custom Grade requirements as applicable. Standard wood moldings shall conform with Western Wood Product Association WP Series, where applicable.
- B. Window sills as shown: Plastic laminate with plastic laminate over NAVF EXT plywood. Color and pattern to be selected.

#### PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. Install all millwork in accordance with reviewed Shop Drawings and AWI "Quality Standards."
- B. Cope internal corners and miter external corners at all standing and running trim.

- C. Provide running trim in as long lengths as practical. Make splices with 45 degree butt joints.
- D. Install materials straight and true. Leave 1/8 inch space between ends of exterior trim, seal joint. Tightly butt ends of interior trim.
- E. In exterior Work drive nail heads flush with surface of siding and trim. Maintain nailing pattern in straight horizontal lines.
- F. At interior Work countersink nails and fill nail holes.
- G. Machine sand trim and finish with hand sanding. Leave free from machine or tool marks that will show through finishes specified. Ease all edges of trim.
- H. Install all finish hardware, accurately fit, securely apply, and carefully adjust to provide smooth and proper operation of all hardware.
- I. Miscellaneous Items: Install all items shown and specified, which are not called for to be installed under other Sections, to plumb, true, and level lines and positions. Install in accordance with details, manufacturer's printed instructions and additional requirements specified. Provide connections and miscellaneous items required to make Work of this Section complete. Securely fasten wall and ceiling mounted items to solid backing or blocking.

#### 3.2 CLEANING

- A. Remove dirt and other foreign matter from installed materials.
- B. Upon completion of installation, leave materials clean and ready for finishing.

#### **END OF SECTION 06 20 00**

#### **SECTION 09 65 13 - RESILIENT BASE AND ACCESSORIES**

#### **PART 1 GENERAL**

#### 1.1 SUMMARY

- A. Section Includes:
  - 1. Long roll type wall base
  - 2. Floor reducer and transition strips
- B. Related Sections:
  - 1. Section 09 68 00: Carpeting

#### 1.2 REFERENCES

- A. Reference Standards: Current edition at date of Bid.
- B. American Society for Testing and Materials (ASTM): ASTM F 1861- Standard Specification for Resilient Wall Base.

#### 1.3 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Product Data: Published product characteristics, performance data, and specifications.
- C. Samples: Provide sample illustrating range of color choices.
- D. Manufacturer's Instructions: Installation instructions, installation requirements, and perimeter conditions requiring special attention.

#### 1.4 QUALIFICATIONS

- A. Installer: Company specializing in work of this Section with experience installing commercial quality work of comparable scope and quality specified for work of this Project.
- 1.5 DELIVERY, STORAGE, AND HANDLING
  - A. Conform to provisions of Section 01 70 00.
  - B. Packaging: Deliver in original labeled carton.

#### 1.6 PROJECT CONDITIONS

- A. Environmental Requirements: Maintain room temperature at not less than 70 degrees F for 24 hours prior to, during, and following installation.
- B. Material Acclimation: Allow resilient base to acclimate for 24 hours before installation in room area conforming to environmental requirements.

#### 1.7 MAINTENANCE

- A. Provide 20 lineal feet of resilient base extra stock.
- B. Maintenance Data: Manufacturer's cleaning and maintenance instructions.

#### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

A. Basis of Design: Roppe, www.roppe.com or as accepted by Architect/Owner.

#### 2.2 RESILIENT BASE - GENERAL

- A. Long Roll: Minimum 100 foot continuous base. No short lengths. Provide integral inside/outside corner units.
- B. Height: 4 inch at carpet.
- C. Gauge: 1/8 inch (0.125). Thinner 0.080 gauge not accepted.
- D. Toe Types:
  - 1. Style B Coved toe at both resilient flooring and carpet installations.

#### 2.3 ACCESSORIES

- A. Sealers, Fillers, Primers: Water-resistant type, as instructed by manufacturer.
- B. Adhesives: As instructed by manufacturer.
  - 1. Porous Surfaces: White acrylic cove base adhesive.
  - 2. Non-Porous Surfaces: Contact bond adhesive.
- C. Adhesives: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.
  - 1. Use adhesives that comply with the following limits for VOC content when calculated according to Performance & Design Criteria above.
- D. Other Materials: Provide incidental and accessory materials, tools, methods and equipment required for completion of resilient covering installations.

#### 2.4 FINISHES

- A. Resilient Base: RB-1: 4 inch Color (RB-1): Roppe, color to be selected.
- B. Transition Strips: Profile as required by installation conditions color to be selected from Standard range.

#### PART 3 EXECUTION

#### 3.1 EXAMINATION

- A. Verify conditions ready to receive work of this Section before beginning.
- B. Verify wall substrate installations free of voids and gaps, as necessary to provide solid backing behind resilient base installation.

#### 3.2 PREPARATION

- A. Remove grease, dust, dirt, and other foreign substances. Follow manufacturer's instructions.
- B. Provide solid backing as substrate for work of this Section.

#### 3.3 RESILIENT BASE INSTALLATION

- A. Install in accordance with manufacturer's instructions and provisions of Contract Documents.
- B. Install resilient base at wall perimeters of rooms and spaces to receive resilient flooring, carpeting, and other floors as indicated.
- C. Provide around entire perimeter of rooms, including kick spaces at fixed casework.
- D. Uncoil wall base 24 hours ahead of installation at room temperature to allow acclimation in the flat condition.
- E. Install from ends toward center. Avoid stretching.
- F. Using approved adhesives, cement directly to solid backing. Bond fully and tightly to wall and floor surfaces.
- G. Fit joints for tight vertical joints.
- H. Maintain minimum measurement of 18 inches between joints for resilient base and full length for resilient stringers where possible.
- I. Install with no joints on a single wall less than 30 feet apart.

#### J. Corners:

- 1. Internal Corners: Mark, miter, and fold resilient base at corner.
- 2. External Corners: Mark and cut V into 2/3 thickness, and wrap resilient base around corner.
- 3. Make relief cuts as necessary for smooth, even appearance.
- 4. Adhere with adhesive to hold permanently in place.
- Premolded corner base are not accepted.
- K. Scribe and fit to door frames and other interruptions.

#### 3.4 REDUCER AND TRANSITION STRIPS

- A. Reducing Strips: Install at terminations and unprotected or exposed edge transitions between out-of-plane finish flooring transitions.
- B. Install in longest possible lengths with no length less than 4 foot long at single doors and 6 feet at double doors.
- C. Fit with tight hairline joints between adjoining strips.

#### 3.5 ADJUSTING

A. Replace wall base not uniformly adhered to wall, out of alignment, out of plumb, and where showing gaps, bulges and other installation defects.

#### 3.6 CLEANING

- A. After bases and reducer strips have set sufficiently, wash with neutral cleaner as recommended by manufacturer.
- B. Leave surfaces smooth and clean, free of defects.

#### **END OF SECTION 09 65 13**

#### SECTION 09 68 00 - CARPET

#### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Provide New Carpet and accessories as shown and specified.
- B. Related Sections:
  - 1. Section 01 23 00 Alternates
  - 2. Section 03 54 16 Hydraulic Cement Underlayment
  - 3. Section 09 65 13 Resilient Base and Accessories

#### 1.2 SUBMITTALS

A. Samples: Three 24 inch square pieces of carpet of each color selected.

#### 1.3 QUALITY ASSURANCE

A. Installer Qualifications: Installer of at least 10 projects equal in yardage to Work specified. Minimum experience to acquire warranty coverage.

#### 1.4 MAINTENANCE

A. Carpet Tiles: Two full cartons and any left over from a full box for each color selected.

#### PART 2 - PRODUCTS

#### 2.1 MATERIALS

A. CPT-1, CPT-2, CPT-3

1. Carpet Tile: J & J Flooring
Pattern: Tri-Plex 1832
Size: 24" x 24"

Color: CPT-1: 2292 – Times a Lady

CPT-2: 2295 – Musketeers CPT-3: 2293 – Dog Night

Construction: Loop

Wear Layer: Universal Fibers polyester – applied pattern

Std. Backing Polyester Felt Cushion Dye Method: Solution Dyed

Pattern Repeat Random ½ / ½ / ⅓ for each color Total Thickness 0.205 inches (nominal average)

Install: 1/4 Turn

B. Walk Off Mat

Manufacturer: Mats Inc.

Product Line: Berber RB Roll Matting

Style: 6'-7'W roll goods x 3/8" thick, 64 oz./sq. yd.

Color: Light Beige

Material: 100%, Solution Dyed polypropylene fiber

Backing: Oxforce Highdensity Rubber

Installation Method: Glue Down

#### C. Installation Materials:

1. Adhesive: Anti-microbial, pressure sensitive type, suitable to release carpet when re-carpeting, as recommended by carpet manufacturer.

#### 2.2 ACCESSORIES

A. Leveling, Patching and Underlayment Compounds

- 1. Latex types as required by carpet manufacturer. Capable of being extended to a feather edge and of sustaining loads without indentation. Underlayment not to contain gypsum compounds.
- 2. Underlayment compound to have a moisture permanence of no greater than 1 perm.
- 3. Use Hydraulic Cement Underlayment if existing conditions are beyond tolerances for compounds listed above.

#### PART 3 - EXECUTION

#### 3.1 EXAMINATION

A. Prior to start of Work inspect all surfaces, verify that surfaces are clean, dry, sound, level, and free from oil, grease, wax or other foreign matter that would impair installation.

#### 3.2 PREPARATION

A. Fill cracks more than 1/16 inch wide, and depressions, with crack filler. Fill and thoroughly sand edge and end joints. Lightly sand any surface roughness around fasteners.

#### 3.3 INSTALLATION

A. Install carpet in accordance with manufacturer's instructions, within allowable temperature range recommended by manufacturer.

#### B. Carpet:

- 1. Fit neatly into breaks and recesses, against bases, around penetrations, under thresholds, and around permanent cabinets and equipment.
- 2. Broom or roll to remove air bubbles and insure bond.
- 3. Install edge strips where carpet adjoins resilient flooring.

#### 3.4 CLEANING

- A. Upon completion, vacuum with commercial beater bar type vacuum cleaner. Protect from soiling and damage until acceptance by Owner.
- B. After each area of carpet has been installed, protect from soiling and damage until acceptance by Owner.
- C. At existing carpeting remaining within area of work, provide thorough wet type cleaning per City Standards.

#### **END OF SECTION 09 68 00**

www.coffman.com

Remod

Municipal Court F 5694 2nd Avenue Ferndale, WA 98248

Job No: 200919 Date: 07.03.2020

**2** ADDENDUM #2 11-04-2020

SCHEDULES

City of Ferndale

File No:

Drawn By: CEI
Checked By: TB

Issued for: PERMIT SET

BENCON WASHINGTON AND AND AND AND AND AND AND AND AND AN
1.1767.25

\	/ARIAI	BLE REFRIG	SERANT VO	DLUME - A	IR-COOLE	D CONDE	NSING UNIT SO	CHEDULE								
′	HEA	TING CAPACITY	REFRIGERANT CHARGE	CONNECTION			ELECTRICAL		DIMENSIONS			EFFICIENCY	,	NOTES	OPTIONS AND	
SIGN	BTU/h	AMBIENT DESIGN (*F DB / WB)	FACTORY CHARGE (LBS)	RATIO (%)	VOLTAGE- PHASE	MIN CIRCUIT AMPS (MCA)	MAX OVERCURRENT PROTECTION (MOP)	RUNNING CURRENT(RLA)	(WxHxD) (INCH)	WEIGHT (LBS)	EER	SEER	HSPF	NOTES	ACCESSORIES	

29 x 35 x 13

12.5 18.6

- 1. MANUFACTURER MUST BE CERTIFIED, LISTED, AND LABELED PER AHRI 1230.
- 2. SYSTEM RATING DATA BASED ON DESIGN AMBIENT CONDITIONS FOR COOLING AND FOR HEATING.
- 3. SUBMITTED PERFORMANCE DATA MUST BE FULLY DE-RATED FOR ALL COMPONENTS AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO, LINE LENGTH, VERTICAL SEPARATION, CONNECTION RATIO, DESIGN CONDITIONS, CONDENSER COIL COATING.
- . CONDENSING UNITS MUST HAVE FULLY MODULATING INVERTER COMPRESSORS.
- 5. CONDENSING UNITS MUST HAVE HAVE AUTO CHANGEOVER FUNCTIONS

BASIS OF DESIGN NOMINAL

(DAIKIN)

RXL24UMVJUA

- 6. DEMAND LIMITING RELAY CONTACT MUST BE PROVIDED.
- 7. EEV ACTUATORS MUST BE REMOVABLE FROM VALVE BODY WITHOUT DISTURBING THE REFRIGERANT SYSTEM.
- 8. FCU THERMOSTATS MUST PROVIDE +/- 1 DEGREE DEAD-BAND SET-POINT AND CONTROL CAPABILITY.
- 9. SYSTEM SHALL BE PROVIDED WITH I-TOUCH MANAGER CONTROLLER WITH WEB BASED SOFTWARE FOR DISPLAYING UP TO 8 DIII-NET SYSTEMS WITH 128 INDOOR UNITS PER SYSTEM.PC BY OTHERS.

24,000

LOCATION

10. MANUFACTURERS SUBMITTAL MUST INCLUDE REFRIGERANT PIPING DIAGRAM WITH PIPE DIAMETERS, LENGTHS, AND REFRIGERANT VOLUME.

DESCRIPTION

OUTDOOR UNIT

- 1. SUBSTITUTE MANUFACTURER SHALL BE RESPONSIBLE FOR ADDITIONAL PIPING AND REFRIGERANT.
- 12. CONTRACTOR TO VERIFY PIPING DIMENSIONS.
- 13. INSTALLING CONTRACTOR MUST HAVE SUCCESSFULLY COMPLETED MANUFACTURERS CERTIFIED INSTALLATION CLASS WITHIN PAST 36 MONTHS.
- 14. CONTRACTOR TO FURNISH AND INSTALL INSULATION ON REFRIGERANT PIPING.
- 15. MANUFACTURER MUST PROVIDE 10 YEARS PARTS WARRANTY ON ALL FCUS, CONDENSING UNITS, MODE CHANGEOVER DEVICES AND ZONE CONTROLS. WARRANTY CONDITIONS MUST BE CLARIFIED DURING SUBMITTAL PHASE.

COOLING CAPACITY

84.2

	VARIABLE REFRIGERANT VOLUME - INDOOR UNIT SCHEDULE													
				CONNEC	TED TO:	SUPPLY FAN	COOLING CAPAC	ITY HEATING CAPACITY	ELECTRICAL		DIMENSIONS			
TAG	LOCATION	BASIS OF NOMINAL TONNAGE	DESCRIPTION	CONDENSING	ZONE	AIR FLOW RATE TOTAL BYLL	SENSIBLE	ENTERING AIR TOTAL ENTERING AIR	POWER SUPPLY MIN CIRCUIT	MAX	WxHxD	WEIGHT	FILTER NOTES	OPTIONS AND ACCESSORIES
		(DAIKIN) TONNAGE		CONDENSING UNIT	ZONE CHANGEOVER DEVICE	AIR FLOW RATE TOTAL BTU/	n BTU/h	*F DB *F WB BTU/h *Fdb	VOLTAGE - AMPS PHASE	OVERCURRENT PROTECTION	INCH	(LBS)		
FCU-1	CORRIDOR	FDMQ24RVJU 2	DUCTED CONCEALED	CU-1	NO	678 24,000	16,730	78.8 65.5 27,600 68	POWERED THRU OUTDO	OOR UNIT	39 x 10 x 32	82	MERV 13 1-6	
1														

3.2

AMBIENT DESIGN FACTORY
('F DB / WB) CHARGE (LBS)

208-230V 1ph

32/30.7

27,600

- 1. BUILT-IN CONDENSATE PUMP
- 2. COOLING/HEATING CAPACITY LISTED IN SCHEDULE IS FAN COIL RATED CAPACITY.
- 3. VRF FAN COIL UNITS DO NOT REQUIRE ECONOMIZERS. SYSTEM FALLS UNDER C403.4.1, EXCEPTION 6.
- 4. MC AND VENDOR TO VERIFY SYSTEM REFRIGERANT CHARGE CAPACITY BASED ON FINAL EQUIPMENT LAYOUT.
- 5. PROVIDE REMOTE WIRED PROGRAMMABLE THERMOSTAT AT EACH ZONE.
- 6. STANDARD LIMITED WARRANTY: 10-YEAR WARRANTY ON COMPRESSOR AND ALL PARTS

	EXHAUST FAN SCHEDULE														
UNIT NO.	LOCATION	AREA SERVED	CFM	ESP (IN. WG)	FAN RPM	HP	MOTOR VOLTS	PH	FAN TYPE	DRIVE TYPE	SOUND SONES	ACCESSORIES	BASIS OF DESIGN	OPER WT. (LBS.)	REMARKS
EF-1	ROOF	CORRIDOR/RECEPTION	50-110	0.50	1385	1/8	115	1	DOWN BLAST	ECM	4.5	-	TWIN CITY DCRD080B	60	1–7

- NOTES: 1. FAN SHALL RUN AT LOW SPEED CONTINOUSLY AND AT HIGH SPEED ON TRIGGER FROM CO2 SENSOR.
  - 2. ALUMINUM CONSTRUCTION OPTION.
  - 3. DISCONNECT BY ELEC CONTRACTOR.
  - 4. PROVIDE ROOF CURB.
  - 5. PROVIDE CO2 SENSOR AND INTERFACE WITH FAN OPERATION.
    - 6. PROVIDE BACKDRAFT DAMPER AT FAN.
    - 7. PROVIDE SPEED DIAL TO BALANCE FAN.

DIFFUSER AND GRILLE SCHEDULE							
TAG	TYPE	BASIS OF DESIGN	REMARKS				
S-1	SUPPLY GRILLE	PRICE SCDA	DUCT MOUNT				
S-2	SUPPLY DIFFUSER	PRICE 610	CEILING MOUNT				
R-1	RETURN GRILLE	PRICE 630	CEILING MOUNT				
R-2	RETURN GRILLE	PRICE 630	WALL MOUNT				
E-1	EXHAUST GRILLE	PRICE 630	CEILING MOUNT				
	I		I				

CONNECTION SIZE:	BRANCH DUCT SIZE:	CFM RANGE:
4x4	4"	0-30
6x6	<b>6"</b>	30-80
8x8	8"	80-190
10x10	10"	190-360
12x12	12"	360-580
14x14	14"	580-850

R	AND GRILLE S	SCHEDULE
	BASIS OF DESIGN	REMARKS
	PRICE SCDA	DUCT MOUNT
R	PRICE 610	CEILING MOUNT
	PRICE 630	CEILING MOUNT
	PRICE 630	WALL MOUNT
:	PRICE 630	CEILING MOUNT

### GENERAL NOTES

### THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS

- ITEMS NOTED AS "TYPICAL" ON ANY DRAWING REFERS TO ALL
- 2. PROVIDE NYLON PULL STRING IN ALL EMPTY RACEWAYS.
- 3. NO STRUCTURAL MEMBERS SHALL BE CUT OR ALTERED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
- 4. ALL RACEWAYS WITHIN THE BUILDING SHALL BE RUN OVERHEAD U.O.N. RACEWAYS SHALL NOT BE RUN UNDER THE FLOOR SLAB UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.
- 5. NO RACEWAYS SHALL BE RUN IN FLOOR SLABS.
- 6. FIRST FLOOR HOMERUNS (TO THE FIRST DEVICE) MAY BE RUN UNDER THE SLAB IN 1" PVC.
- 7. LOCATIONS OF ALL WALL MOUNTED DEVICES ARE SHOWN SCHEMATICALLY. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, ELEVATIONS AND CASEWORK SUPPLIERS SHOP DRAWINGS FOR EXACT LOCATION OF DEVICES PRIOR TO ROUGH-IN.
- 8. ALL RACEWAYS IN FINISHED SPACES SHALL BE CONCEALED.
- PROVIDE 2" EMT SLEEVES FOR LOW VOLTAGE WIRING RUNNING THROUGH NON-RATED WALLS, FLOORS AND CEILINGS.
- 10. PROVIDE STI "EZ-PATH" ASSEMBLIES AT EACH LOCATION WHERE LOW VOLTAGE WIRING PENETRATES A RATED WALL OR CEILING. ASSUME 50 ARE TO BE PROVIDED.
- 11. SEAL ALL PENETRATIONS IN RATED FLOORS AND CEILINGS WITH A UL APPROVED FIRE STOP SYSTEM.
- 12. PROVIDE A COMPLETE DESIGN-BUILD PATHWAY SYSTEM FOR ALL SPECIAL SYSTEMS WIRING, SEE SPECIFICATIONS. QUANTITY AND SIZE OF RACEWAYS SHOWN ON SPECIAL SYSTEMS PLANS ARE THE MINIMUM TO BE PROVIDED. CONTRACTOR SHALL PROVIDE ALL RACEWAYS AS
- 13. ALL LOW VOLTAGE WIRING NOT RUN IN A METALLIC RACEWAY SHALL BE PLENUM RATED.
- 14. ALL EQUIPMENT, LUMINAIRES, RACEWAYS, DEVICES, ETC. SHALL BE UL
- 15. MOUNT ALL DEVICES ABOVE COUNTERS 6" ABOVE BACKSPLASH UNLESS NOTED OTHERWISE.
- 16. WHERE A CONFLICT EXISTS THE MOST EXPENSIVE OPTION SHALL GOVERN.
- 17. PROVIDE ALL RACEWAYS AND WIRING REQUIRED TO INSTALL ELECTRONIC DOOR HARDWARE. REFER TO DOOR HARDWARE SPECIFICATIONS, SCHEDULES AND DIAGRAMS.

## **DEMOLITION PLANS**

## THE FOLLOWING GENERAL NOTES APPLY TO ALL DEMOLITION PLAN DRAWINGS

- 1. THE CONTRACT DOCUMENTS DO NOT SHOW ALL REQUIRED DEMOLITION WORK. THE CONTRACTOR SHALL SURVEY THE EXISTING CONDITIONS AND ESTABLISH THE EXTENT OF DEMOLITION PRIOR TO BID.
- 2. WHERE "ALL ELECTRICAL SYSTEMS" ARE NOTED TO BE REMOVED FROM AN AREA REMOVE ALL FIXTURES, DEVICES, EQUIPMENT, RACEWAYS, AND WIRING UNLESS OTHERWISE NOTED.
- 3. REMOVE ALL ELECTRICAL DISTRIBUTION EQUIPMENT, RACEWAYS, AND CONDUCTORS AS SHOWN ON THE EXISTING ONE-LINE DIAGRAM.
- 4. REMOVE ALL TEMPORARY WORK INSTALLED DURING THE COURSE OF
- 5. REMOVE CONNECTIONS TO MECHANICAL EQUIPMENT AS SHOWN ON THE MECHANICAL DEMOLITION PLANS.
- 6. EXISTING DEVICES TO BE DEMOLISHED SHOWN BOLD. REMOVE DEVICE, RACEWAY AND WIRING BACK TO SOURCE, UON.
- 7. WHERE EXISTING RECEPTACLES ARE REMOVED, MAINTAIN CONTINUITY TO RECEPTACLES ON THE SAME CIRCUIT TO REMAIN.
- 8. WHERE EXISTING LUMINAIRES ARE REMOVED, MAINTAIN CONTINUITY TO
- FIXTURES ON THE SAME CIRCUIT TO REMAIN.
- 9. WHERE EXISTING LOW VOLTAGE DEVICES ARE REMOVED, MAINTAIN CONTINUITY TO OTHER DEVICES.

## WASHINGTON STATE NONRESIDENTIAL **ENERGY CODE COMPLIANCE**

- LIGHTING: THE CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION VERIFYING THAT ALL LAMPS AND BALLASTS HAVE BEEN PROVIDED PER THE SPECIFICATIONS. PROVIDE A LIST WHICH INDICATES THE EXACT PART NUMBER OF THE LAMP AND BALLAST PROVIDED FOR EACH FIXTURE TYPE. INCLUDE THE CERTIFICATION AND THE LAMP/BALLAST LIST IN THE 0&M MANUAL.
- 2. COMMISSIONING REQUIREMENTS: ALL LIGHTING CONTROLS INCLUDING DAYLIGHT OR OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT OFF CONTROLS, OCCUPANCY SENSORS OR AUTOMATIC TIME SWITCHES, THE LIGHTING CONTROLS SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES. COMPONENTS, EQUIPMENT AND SYSTEMS ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATIONS SHALL BE FUNCTIONALLY TESTED TO ENSURE THEY OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A WRITTEN STATEMENT CERTIFYING ALL LIGHTING CONTROLS HAVE BEEN COMMISSIONED. INCLUDE CERTIFICATION IN O&M MANUAL.
- TRANSFORMERS: THE MINIMUM EFFICIENCY OF ALL LOW VOLTAGE DRY-TYPE DISTRIBUTION TRANSFORMERS SHALL BE THE CLASS 1 EFFICIENCY LEVELS FOR DISTRIBUTION TRANSFORMERS SPECIFIED IN TABLE 4-2 OF THE "GUIDE FOR DETERMINING ENERGY EFFICIENCY FOR DISTRIBUTION TRANSFORMERS" PUBLISHED BY THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA TP-1, LATEST EDITION).

## LIGHTING PLANS

## THE FOLLOWING GENERAL NOTES APPLY TO ALL LIGHTING PLAN DRAWINGS

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LUMINAIRES.
- 2. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF EXTERIOR LUMINAIRES.
- 3. COORDINATE THE FINAL LOCATION OF LUMINAIRES IN MECHANICAL ROOMS AND ATTIC SPACES TO AVOID CONFLICTS WITH DUCT WORK, PIPING, AND MECHANICAL EQUIPMENT.
- 4. ROUTE ALL EXTERIOR LIGHTING CIRCUITS VIA LIGHTING CONTROL PANEL.
- 5. INSTALL AND WIRE REMOTE BALLASTS AND DRIVERS. REFER TO LUMINAIRE SCHEDULE. MOUNT IN ACCESSIBLE LOCATIONS. SHOW LOCATIONS ON THE AS-BUILT DRAWINGS.

## **EQUIPMENT CONNECTIONS**

- VERIFY ELECTRICAL REQUIREMENTS WITH MANUFACTURER SHOP DRAWINGS PRIOR TO ROUGH-IN.
- 2. INSTALL AND WIRE EQUIPMENT PER MANUFACTURER SHOP DRAWINGS.
- 3. PROVIDE ALL RACEWAYS, WIRING AND ANCILLARY EQUIPMENT AS SHOWN ON MANUFACTURER SHOP DRAWINGS.
- 4. PROVIDE HARDWIRED CONNECTION, RECEPTACLE OR FUSED DISCONNECT SWITCH AS SHOWN ON MANUFACTURER SHOP DRAWINGS.

## SYSTEMS PLANS

## THE FOLLOWING GENERAL NOTES APPLY TO ALL SPECIAL SYSTEMS PLAN DRAWINGS

- MINIMUM RACEWAY SIZE SHALL BE 1" FOR TELECOMMUNICATIONS CABLING AND ¾" FOR ALL OTHER SYSTEMS.
- 2. ALL SPECIAL SYSTEMS WIRING EXCEPT FIRE ALARM SHALL BE RUN UTILIZING OPEN WIRING METHOD ABOVE ACCESSIBLE CEILINGS. PROVIDE METALLIC RACEWAYS FOR WIRING INSTALLED IN WALLS, ABOVE INACCESSIBLE CEILING, WHERE EXPOSED OR WHERE SUBJECT TO PHYSICAL DAMAGE. RACEWAY FILL SHALL NOT EXCEED 40%.
- 3. FIRE ALARM SYSTEM WIRING SHALL BE RUN IN CONTINUOUS METALLIC
- 4. PROVIDE ADDRESSABLE DUCT DETECTOR AT EACH FIRE/SMOKE DAMPER (FSD) AND SMOKE DAMPER (SD) LOCATION. REFER TO MECHANICAL DRAWINGS FOR
- 5. PROVIDE FA CONNECTION TO FIRE SPRINKLER TAMPER, FLOW, AND PRESSURE SWITCHES. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
- 6. PROVIDE ¾" A-C FIRE RETARDANT PLYWOOD ON ALL FOUR WALLS OF THE MDF AND EACH IDF. MOUNT 8' DIMENSION VERTICAL. PAINT FLAT WHITE.
- PROVIDE 1" C. FROM EACH FLOOR BOX TO ACCESSIBLE CEILING LOCATION. THIS IS IN ADDITION TO THE RACEWAYS SHOWN ON THE DRAWINGS.
- ALL EXTERIOR FIRE ALARM AND INTERCOM DEVICES SHALL BE WEATHERPROOF.
- 9. PROVIDE EXTERIOR FIRE ALARM BELL AND STROBE AT LOCATION DIRECTED BY FIRE MARSHAL.
- 10. PROVIDE CONNECTION TO FIRE SPRINKLER DOUBLE CHECK VALVE ASSEMBLIES AND PIV'S. REFER TO CIVIL/MECHANICAL DRAWINGS FOR LOCATIONS.
- 11. STAPLES SHALL NOT BE USED TO SECURE LOW VOLTAGE CABLING.
- 12. ALL CABLING NOT RUN IN A METALLIC RACEWAY SHALL BE PLENUM RATED.
- 13. EXTERIOR INTERCOM SPEAKERS SHALL BE WEATHERPROOF AND VANDAL

**ELECTRICAL SYMBOLS** 

	<u>LIGHTING</u>
××	LUMINAIRE: XX — LUMINAIRE TYPE YY — CIRCUIT NUMBER
⊗	EXIT SIGN, CEILING MOUNT REFER TO ARCHITECTURAL LIFE SAFETY PLAN FOR DIRECTION OF TRAVEL
	RECESSED LINEAR LUMINAIRE
	<u>EQUIPMENT</u>
$\otimes$	EQUIPMENT CONNECTION
EF-1	MECHANICAL EQUIPMENT CALLOUT. REFER TO MECHANICAL EQUIPMENT SCHEDULE.
	SPECIAL SYSTEMS
	SECURITY SYSTEM
$\triangleleft \triangleright$	DOOR CONTACTS
Ē	ELECTRIC STRIKE
н©	CARD READER
H●	PUSHBUTTON
М	MAGNETIC DOOR LOCK

#### MECHANICAL EQUIPMENT CONNECTION SCHEDULE CONDENSING UNIT SCHEDULE EQUIP. NO. DESCRIPTION LOCATION HP KW FLA MCA MOCP VOLTAGE PHASE DISCONNECT STARTER FEEDER CIRCUITING NOTES 30AS | CONT PNL | 3/4" - 2#10 & 1#10G | CONDENSING UNIT ROOF 19.8 208 FAN COIL UNIT SCHEDULE EQUIP. NO. LOCATION HP | W | FLA | MCA | MOCP | VOLTAGE | PHASE | DISCONNECT | STARTER FEEDER CIRCUITING NOTES DESCRIPTION FCU-1 FAN COIL UNIT CORRIDOR 208 30AS | CONT PNL | 3/4" - 2#10 & 1#10G | P-1,3 **EXHAUST FAN UNIT SCHEDULE** EQUIP. NO. **DESCRIPTION** LOCATION HP | W | FLA | MCA | MOCP | VOLTAGE | PHASE | DISCONNECT | STARTER FEEDER CIRCUITING NOTES 1/6 1/2" - 2#12 & 1#12G EF-1 EXHAUST FAN 120 P-5 ROOF

1. INDOOR UNIT FED FROM OUTDOOR UNIT

- A. INFORMATION PRESENTED IN THIS SCHEDULE IS BASED ON EQUIPMENT SELECTED BY THE MECHANICAL ENGINEER DURING THE DESIGN PROCESS (PRE-BID). THE ACTUAL EQUIPMENT SELECTED BY MECHANICAL CONTRACTOR UNDER THIS CONTRACT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR ACTUAL LOADS AND PROVIDE OVERCURRENT PROTECTIVE DEVICES AND CIRCUIT SIZES AS REQUIRED BY THE EQUIPMENT MANUFACTURER PRIOR TO ORDERING MATERIALS OR ROUGH-IN.
- B. ALL DISCONNECTS ARE FUSED U.O.N. CONFIRM FUSE SIZE WITH EQUIPMENT MANUFACTURER.
- C. LOCATE ALL DISCONNECTING MEANS PER 2014 NEC 430.102(B) AND AHJ REQUIREMENTS.
- D. ABBREVIATIONS:
- AS: AMPERE SWITCH
- HRS: HORSEPOWER RATED MOTOR DISCONNECT WITH OVERLOAD PROTECTION.

Luminaire Schedule								
Туре	Description	Lamp Type	Ballast/ Driver	Dimming Type	WATTS/VA	Manufacturer Information	Schedule Notes	
EA1	UNIVERSAL LED EXIT SIGN UNIVERSAL CEILING, WALL, END MOUNTING. FILED SLECTABLE KNOCKOUT CHEVRON INDICATORS. BRUSHED ALUMINUM FACEPLATE. PROVIDE WITH UL924 RATED EMERGENCY BATTERY	3W LED GREEN	NA	NA	4/4	HE WILLAMS "EXIT/CA" SERIES  EQUAL BY: COOPER, ACUITY	1	
DA1E	RECESSED 4" LED DOWNLIGHT LUMINAIRE DIFFUSE ACRYLIC LENS PROVIDE WITH UL924 RATED EMERGENCY BATTERY	9W LED 3500K 1000 LUMENS	0-10V DIMMING DRIVER	0-10V	9/9	DMF "DRD5" SERIES  EQUAL BY: COOPER, HE WILLIAMS		
HA2	SUSPENDED LINEAR DIRECT/INDIRECT LUMINAIRE — 8' LENGTH SATIN ACRYLIC LENS, 40% UP / 60% DOWN, PROVIDE WITH LUMINAIRE— LEVEL LIGHTING CONTTOLS WITH INTEGRAL OCCUPANCY SENSOR AND INTEGRAL DAYLIGHT SENSOR.	83.4W LED 3500K 9680 LUMENS	INTEGRAL ELECTRONIC DRIVER	0-10V	84/84	LUX LUMINAIRE "ERA—P" SERIES  EQUAL BY: COOPER, ACUITY		
HA2E	SUSPENDED LINEAR DIRECT/INDIRECT LUMINAIRE — 8' LENGTH SATIN ACRYLIC LENS, 40% UP / 60% DOWN, PROVIDE WITH LUMINAIRE— LEVEL LIGHTING CONTTOLS WITH INTEGRAL OCCUPANCY SENSOR AND INTEGRAL DAYLIGHT SENSOR. PROVIDE WITH UL924 RATED EMERGENCY BATTERY	83.4W LED 3500K 9680 LUMENS	INTEGRAL ELECTRONIC DRIVER	0-10V	84/84	LUX LUMINAIRE "ERA-P" SERIES  EQUAL BY: COOPER, ACUITY		
RA1	RECESSED 2X2 LED FLAT PANEL LUMINAIRE PROVIDE LUMINAIRE—LEVEL LIGHTING CONTROLS WITH INTEGRAL OCCUPANCY SENSOR.	38W LED 3500K 4330 LUMENS	INTEGRAL DIMMING DRIVER	0-10V	38/38	COOPER METALUX "22 FP" SERIES  EQUAL BY: HE WILLIAMS, LITHONIA		
RA1E	RECESSED 2X2 LED FLAT PANEL LUMINAIRE PROVIDE LUMINAIRE—LEVEL LIGHTING CONTROLS WITH INTEGRAL OCCUPANCY SENSOR. PROVIDE WITH UL924 RATED EMERGENCY BATTERY	38W LED 3500K 4330 LUMENS	INTEGRAL DIMMING DRIVER	0-10V	38/38	COOPER METALUX "22 FP" SERIES  EQUAL BY: HE WILLIAMS, LITHONIA		

## SCHEDULE GENERAL NOTES:

- REFERENCE NOTES ON SHEET E002.
- MANUFACTURER INFORMATION BASED ON LUMINAIRE DESIGN SERIES; PART NUMBERS SHOULD BE BASED ON WRITTEN DESCRIPTION. FOR ALL LED LUMINAIRES, THE LUMEN VALUES LISTED IN THE LAMP TYPE COLUMN REPRESENT THE MINIMUM INITIAL OUTPUT REQUIRED.
- CONTRACTOR TO VERIFY CEILING COMPATIBILITY OF ALL LUMINAIRE TYPES PRIOR TO ORDERING.

SCHEDULE NOTES:

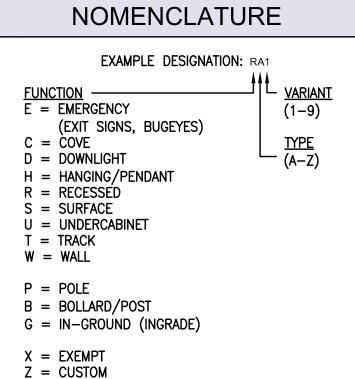
1. PROVIDE SINGLE FACE, DOUBLE FACE AND ARROWS AS NEEDED. REFER TO ARCHITECTURAL LIFE SAFETY PLAN FOR DIRECTION OF TRAVEL.

# **ELECTRICAL ABBREVIATIONS**

AUTO DOOR DLC DOOR LOCK CONTROLLER GFCI GROUND FAULT CIRCUIT INTERRUPTER WEATHERPROOF

DRAWING INDEX							
SHEET NUMBER	DESCRIPTION						
E001 E002	COVER SHEET AND GENERAL INFORMATION NREC						
ED301	GROUND FLOOR ELECTRICAL DEMOLITION PLAN						
E201	GROUND FLOOR LIGHTING PLAN						
E301	GROUND FLOOR POWER PLAN						
E401	ONE-LINE DIAGRAM AND PANEL SCHEDULE						

## LIGHTING TYPE NOMENCLATURE



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# LUMINAIRE SCHEDULE NOTES

- 1. REFER TO ADDITIONAL NOTES ON DRAWING E0.2.
- 2. THE UNDERLINED LUMINAIRE IN THE SCHEDULE REPRESENTS THE "BASIS OF DESIGN". ALL OTHER MANUFACTURERS LISTED MUST MEET OR EXCEED ALL REQUIREMENTS OF THE BASIS OF DESIGN.
- 3. VERIFY THE VOLTAGE OF ALL LUMINAIRES. REFER TO PLANS FOR SPECIFIC VOLTAGE REQUIREMENTS.
- 4. ALL LUMINAIRES TO BE PROVIDED WITH ALL ROUGH-IN AND TRIM ASSEMBLIES FOR A COMPLETE INSTALLATION.
- 5. ALL LUMINAIRES TO BE PROVIDED WITH A CUSTOM COLOR/FINISH AS SELECTED BY THE ARCHITECT, UNLESS OTHERWISE NOTED.
- 6. ALL LUMINAIRES TO BE UL LISTED AND LABELED. EXTERIOR LUMINAIRES TO BE UL "WET" LABELED.
- 7. LUMINIARES SHALL BE PROVIDED WITH AN INTERNAL DISCONNECTING MEANS WHICH COMPLIES WITH NEC ARTICLE 410.
- 8. ALL FLUORESCENT AND HID BALLASTS TO BE PROVIDED WITH AN IN-LINE FUSE.
- 9. ALL LUMINAIRES TO HAVE AN INTEGRAL BALLAST UNLESS A REMOTE BALLAST IS SPECIFIED.
- 10. TANDEM OR THROUGH-WIRED BALLASTS ARE NOT ALLOWED. PROVIDE A SEPARATE BALLAST FOR EVERY 4' LUMINAIRE 'SECTION'.
- 11. PROVIDE WIRE GUARDS AND PLASTIC LAMP SLEEVES FOR ALL FLUORESCENT LINEAR STRIP LUMINAIRES.
- 12. FOR HID LUMINAIRES FED FROM THE GENERATOR PROVIDE QUARTZ RESTRIKE WITH STANDBY TIME DELAY PER UL 1598. QUARTZ LAMP IS KEPT ON UNTIL THE HID LAMP REACHES 80% OF FULL LIGHT
- 13. ALL METAL HALIDE LAMPS/BALLASTS SHALL BE PULSE START.
- 14. PROVIDE GLARE SHIELDS FOR ALL POLE MOUNTED
- 15. THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL INTERIOR ELEVATIONS AND THE CASEWORK MANUFACTURER SHOP DRAWINGS TO DETERMINE THE LENGTH OF UNDER CABINET LUMINAIRE.
- 16. REFER TO ARCHITECTURAL ELEVATIONS TO DETERMINE PENDANT LENGTH.
- 17. REFER TO THE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 18. AIM ADJUSTABLE LUMINAIRES AS DIRECTED BY THE ENGINEER.

## SPECIAL REQUIREMENTS FOR ALL LED LUMINAIRES

- 1. LUMINAIRES SHALL BE CERTIFIED BY ENERGY STAR, DESIGN LIGHTS CONSORTIUM, OR THE LIGHTING DESIGN LAB LED CERTIFICATION PROGRAM.
- 2. MINIMUM CRI SHALL BE 80.
- 3. MANUFACTURER SHALL PROVIDE A 5-YEAR
- 4. LUMINAIRES SHALL COMPLY WITH ROHS (RESTRICTION OF THE USE OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT) REGULATIONS. APPLICABLE FOR LEED PROJECTS ONLY.
- 5. MINIMUM LUMENS PER WATT EFFICACY SHALL BE

## SUBSTITUTIONS

- 1. NO POST BID SUBSTITUTIONS WILL BE CONSIDERED.
- 2. WHERE ONLY ONE MANUFACTURER IS LISTED, PRE-BID SUBSTITUTIONS WILL ONLY BE CONSIDERED IF A SAMPLE OF THE FIXTURE IS PROVIDED.

4

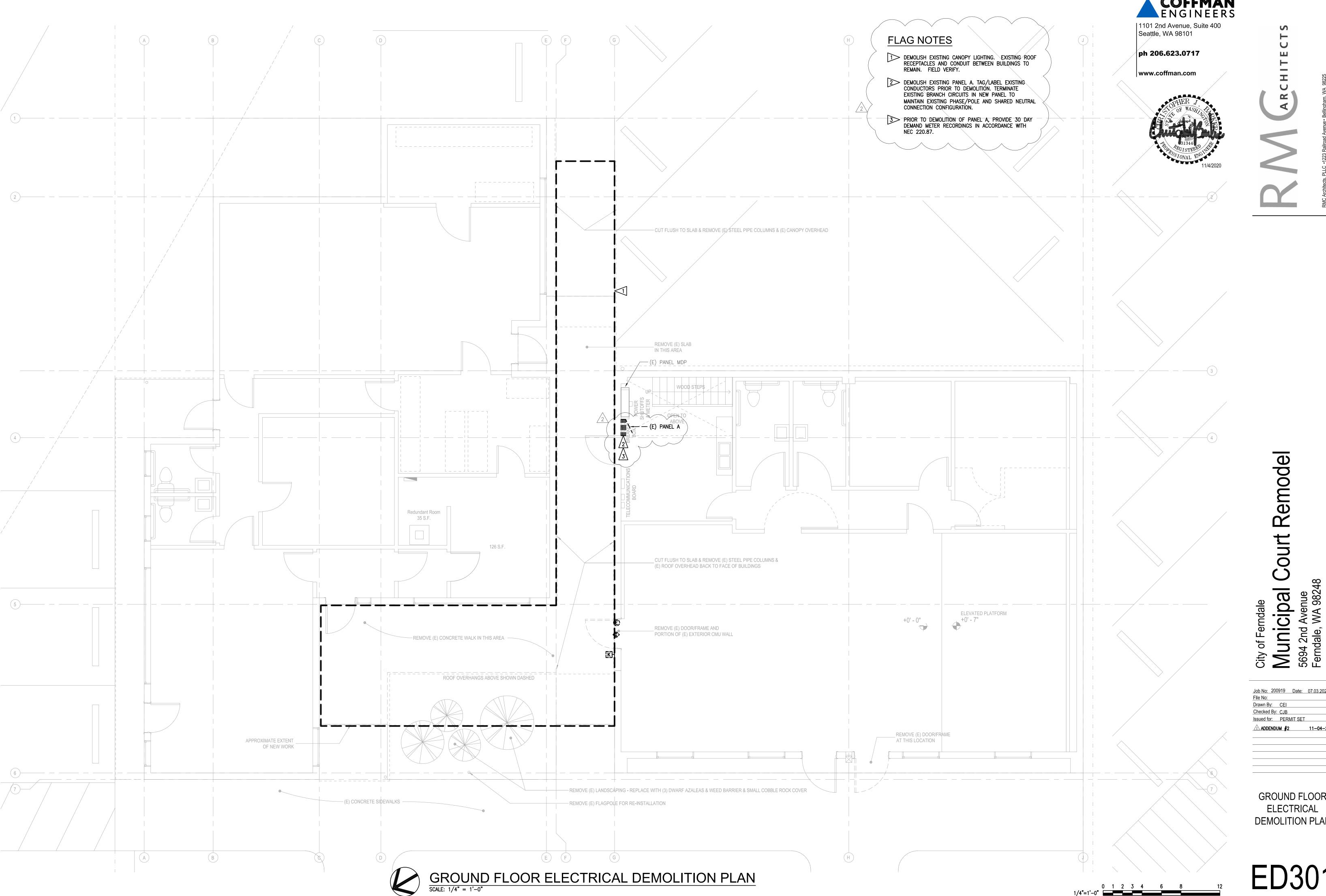
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Job No: 200919 Date: 07.03.2020 File No: Drawn By: CEI Checked By: CJB Issued for: PERMIT SET

2 ADDENDUM #2 11-04-2020

**COVER SHEET** AND GENERAL INFORMATION

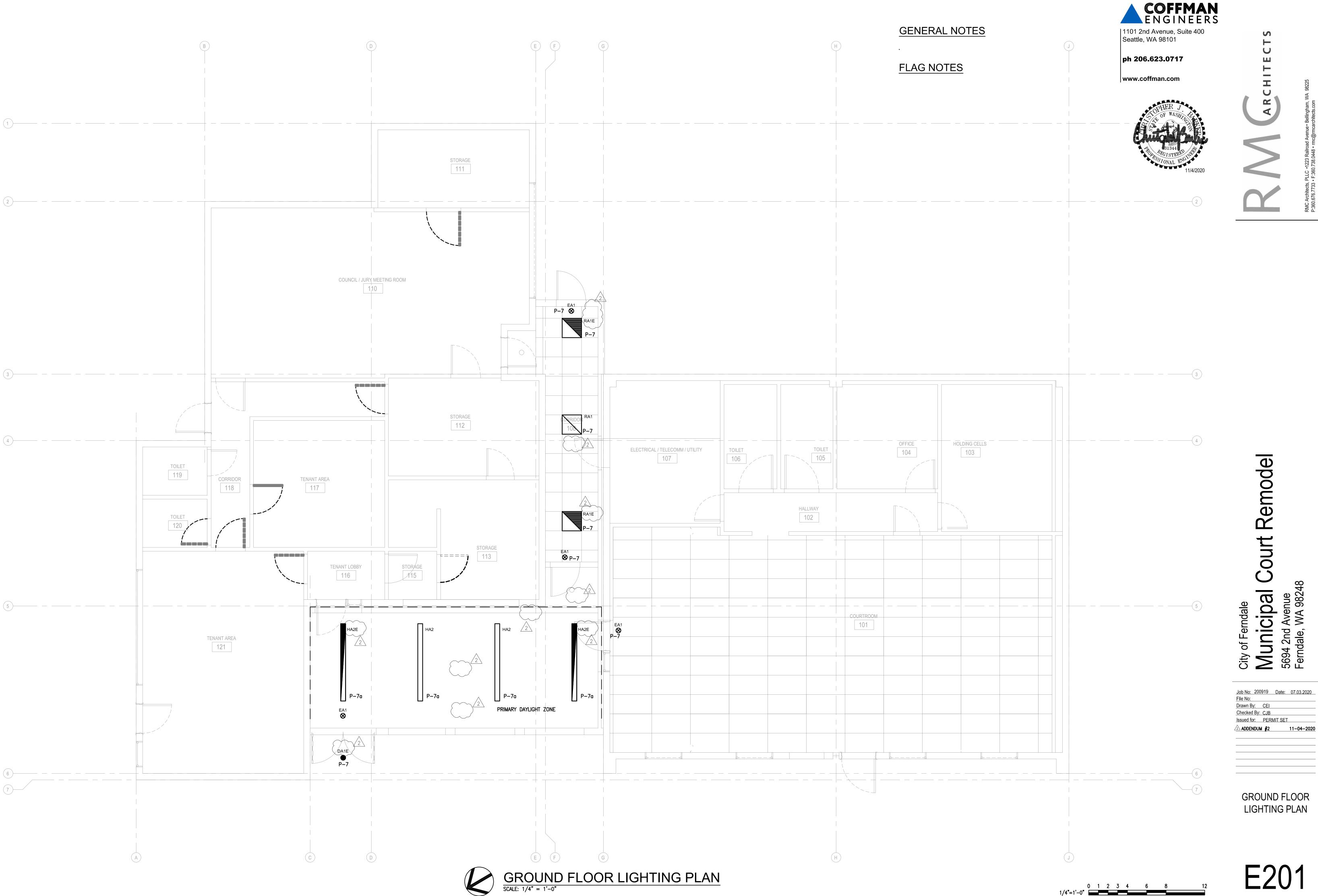


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GROUND FLOOR ELECTRICAL DEMOLITION PLAN

ED301



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**CAMERA NOTES** 

camera clearance.

104

**GENERAL NOTES** 

OWNER VENDOR OF CHOICE.

2. PROVIDE CABLE RACEWAY FOR ALL

PROVIDE 3/4"C-3#10 & 1#10G.

2> PROVIDE PULLBOX IN LOCATION VACATED

3 PROVIDE CAT5E CABLE AND, MOUNTED ON J-HOOKS, FROM EACH CAMERA TO

BY THE REMOVAL OF EXISTING PANEL A.

THE PATCH-PANEL ON NORTH WALL OF

ROOM 107. PROVIDE A 12 PORT CATSE

DEVICES(S) TYPE/MANUFACTURER, ETC.

WITH DOOR HARDWARE SPECIFICATIONS

105

HALLWAY

102 89 SF

COURTROOM

101 1035 SF

AND OWNER VENDOR OF CHOICE. PROVIDE CABLE RACEWAY FOR ALL

DEVICES/

FLAG NOTES

PATCH-PANEL.

DEVICES.

CAM 9

CAM 9

ADAMS RITÉ 7400-628 12/ 24V ELECTRIC STRIKE

ELECTRICAL / TELECOMM / UTILIT

1-1/2"C, 2#1%05% #6GND

- ADAMS RITE 7400-628 12/ 24V ELECTRIC STRIKE

CAM 12

CAM

3/4"C, 2#10 & #10GND —

3/4"C, 2#10 & #10GND -

- CU-1 (ON ROOF)

FCU-1

(ON ROOF) P−2

H

EF-1 (ON ROOF)

DLC CAM 6

CAM 4

4 COORDINATE ACCESS CONTROL

CAMERA 1: Front Right Corner of court room wall; provide 4sq j-box mounted flush to ceiling tile and 1" COORDINATE ACCESS CONTROL from inside corner. This j-box will be supplied by NW Tech for contractor to install. DEVICE(S) TYPE/MANUFACTURER, ETC. WITH HARDWARE SPECIFICATIONS AND

CAMERA 2 & 3: Rear Right and Left corner of court room wall; provide 4sq j-box mounted flush to ceiling tile and 1" from inside corner. J-boxes will be supplied by NW Tech for contractor to install. CAMERA 4: Front door leaving courtroom; provide 4sq j-box mounted flush to ceiling leaving 4" clearance

from the top of the door to ceiling for camera clearance. CAMERA 5: Front door behind new metal detector; provide 4sq j-box mounted flush to ceiling leaving 4"

clearance from top of door to ceiling for camera clearance. CAMERA 6: New Secured door in the New Hallway; provide 4sq j—box mounted flush to ceiling leaving

4" clearance from top of door to ceiling for camera clearance. CAMERA 7: East end of the New Hallway; provide 4sq j-box mounted flush to ceiling leaving 4"

clearance from top of door to ceiling for camera clearance.

CAMERA 8: This camera will be by inside door to hallway going to holding cell, It will be ceiling mounted

Need wire at location, No box needed if surface ran wire. CAMERA 9: Front of door in hallway going to holding cell, location should be center of hall just inside door; provide 4sq j-box mounted flush to ceiling leaving 4" clearance from top of door to ceiling for

CAMERA 10: Front of door in hallway next to holding cell, location should be center of hall just in front of the door to the holding cell; provide 4sq j-box mounted flush to ceiling leaving 4" clearance from top of door to ceiling for camera clearance.

|CAMERA 11: Camera will be mounted on ceiling in holding cell were old camera is located now, Will need at least 4" of clearance from top of door to ceiling.

HOLDING CELLS

103

CAMERA 12: This camera will have a special 4 square box to be installed by contractor for outside

camera, NW Tech Will supply the box

CAM 11

CAM 1 CAM<sub>3</sub>

GROUND FLOOR POWER & SYSTEMS PLAN

SCALE: 1/4" = 1'-0"

STORAGE

111

127 SF

112

SECURITY STAFF AREA

-123

CONNECTION (FOIC)
X-RAY MACHINE

STORAGE
113
126 SF

MECHANICAL

114

STORAGE 115

25 SF

122 F1 336 SF

COUNCIL / JURY MEETING ROOM

117

TENANT LOBBY 116

40 SF

DLC P-12

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- HID PROX READER

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CAM 5

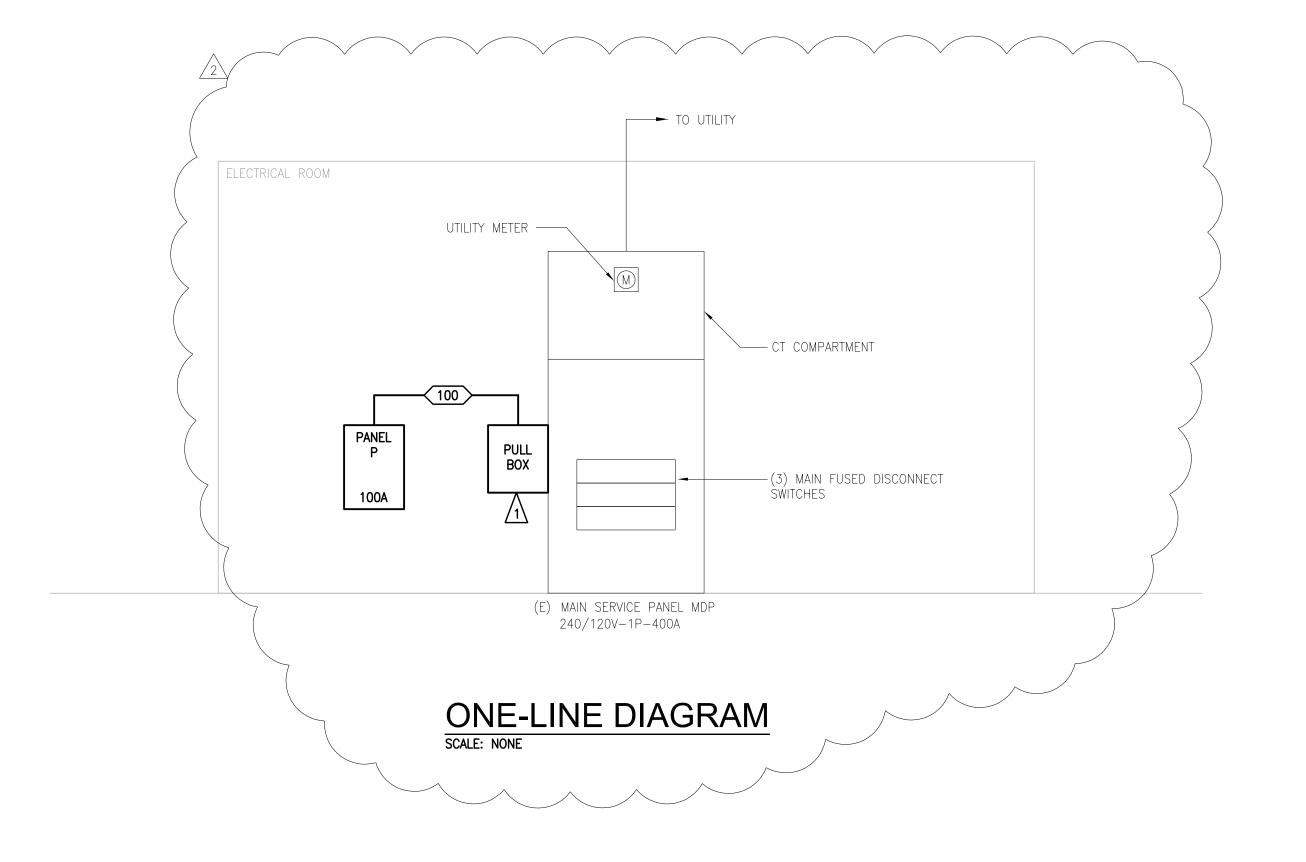
CORRIDOR

118

121 383 SF

DOUBLE DOOR MAGLOCK, REX BUTTON, MOUNTING BRACKET, 2 AMP POWER SUPPLY 618mA @24VDC, 2EA SWITCH BARS

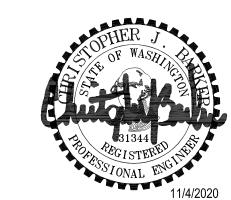
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# **GENERAL NOTES**

1. PRIOR TO DEMOLITION; PROVIDE 30 DAY DEMAND METER RECORDINGS IN ACCORDANCE WITH NEC 220.87.

## **FLAG NOTES**

PROVIDE PULLBOX IN LOCATION VACATED BY THE REMOVAL OF EXISTING PANEL A. EXTEND ALL EXISTING BRANCH CIRCUITS; TAG/LABEL EXISTING CONDUCTORS PRIOR TO DEMOLITION. TERMINATE EXISTING BRANCH CIRCUITS IN NEW PANEL TO MAINTAIN EXISTING PHASE/POLE AND SHARED NEUTRAL CONNECTION CONFIGURATION. ALL CONDUCTORS SHALL BE #12 CU UNLESS NOTED OTHERWISE. PROVIDE #6 CU CONDUCTORS FOR EXTENDED AIR CONDITIONING CIRCUIT.

> <u>A</u> Municipal Court Remod 5694 2nd Avenue Ferndale, WA 98248

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ONE-LINE DIAGRAM AND PANEL SCHEDULE