ADDENDUM NO. 4 100% Construction Documents

February 9, 2022

<u>Issued by:</u> Architects: Lewis + Whitlock P.A. 206 W. Virginia Street Tallahassee, FL 32301

<u>Distribution to:</u> Leon R & D Authority – Innovation Park Bidders (via LRDA-IP bid website)

This Addendum forms a part of the **100% Construction Documents** and modifies the original drawings dated December 9, 2021. Please amend your document set to include the following sheets. This Addendum consists of 3 pages of summary, with attachments as noted below.

SPECIFICATIONS:

- 4.1. **095426 SUSPENDED WOOD CEILINGS –** replace with dated 2/9/2022
- 4.2. **099113 EXTERIOR PAINTING –** replace with dated 2/9/2022
- 4.3. **123600 COUNTERTOPS –** replace with dated 2/9/2022
- 4.4. **21 1314 AUTOMATIC FIRE SPRINKLER SYSTEM –** replace with dated 2/9/2022
- 4.5. **23 0901A CONTROL SYSTEMS –** replace with dated 2/9/2022
- 4.6. **23 7323 FACTORY FABRICATED CUSTOM AIR HANDLING –** replace with dated 2/9/2022
- 4.7. 23 7400 PACKAGED ROOFTOP AIR HANDLING UNITS replace with dated 2/9/2022

DRAWINGS:

4.8. G1.0 - INDEX OF DRAWINGS REPLACE G1.0 – Updated sheet list, dated 2/9/2022.

4.9. C-2 – SITE PLAN

REPLACE C-2 – added crosswalk pavement markings, added sodded overflow weir, adjusted dimension of dumpster enclosure, and building corner benchmarks, dated 2/9/2022.

- 4.10. C-2.1 SIGHT DISTANCE PLAN NEW SHEET C-2.1 –, dated 2/9/2022
- 4.11. C-3 GRADING PLAN REPLACE C-3 – Revises pipe schedule, dated 2/9/2022
- 4.12. C-3.1 SIDEWALK & DRIVEWAY PROFILES NEW SHEET C-3.1 –, dated 2/9/2022
- 4.13. C-3.2 SIDEWALK & DRIVEWAY GEOMETRY PLAN NEW SHEET C-3.2 –, dated 2/9/2022
- **4.14.** U-1 UTILITY PLAN REPLACE U-1 – Added utility detail, and note for cut and patching, dated 2/9/2022

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- 4.15. D-1 CONSTRUCTION DETAILS REPLACE D-1 – Added misc. curb, sidewalk, & drain details, dated 2/9/2022
- **4.16.** LA.1 LANDSCAPE PLAN REPLACE D-1 – Revises edition for FDOT Nursery Standards, dated 2/9/2022
- **4.17. IR.1 IRRIGATION PLAN REPLACE IR.1** – Revises flow data and valve sizing, dated 2/9/2022
- 4.18. G1.2 UL ASSEMBLIES REPLACE G1.2 – Updated to include UL assemblies per code comments, dated 2/9/2022
- 4.19. LS1.0 CODE SUMMARY & LIFE SFETY SITE PLAN REPLACE LS1.0 – Updated to include Energy Code in list, and Area Modification calculation per code review comment, dated 2/9/2022.
- 4.20. LS1.1 FIRST FLOOR LIFE SAFETY PLAN REPLACE LS1.1 – Modifications per code comments, added exit light per electrical coordination, dated 2/9/2022
- 4.21. LS1.2 SECOND FLOOR LIFE SAFETY PLAN REPLACE LS1.2 – Modification per code comments, dated 2/9/2022
- 4.22. A1.0 ARCHITECTURAL SITE PLAN REPLACE A1.0 – Graphically indicates Alternate #4 Enclosure. Adds note for bicycle parking allotments, and dimension for site retaining wall, dated 2/9/2022
- 4.23. A1.01 ENLARGED SITE PLAN, ASSESSORIES & DETAILS REPLACE A1.01 – Added note for curb edge protection at ramp, dated 2/9/2022

4.24. A1.1 – FIRST FLOOR PLAN

REPLACE A1.1 – Clarifies fire-resistance ratings of first floor columns, and clarifies storefront elevation indicator markings, added one more interior bike hanger, added gypsum wall niche to Conference Room 101, dated 2/9/2022.

4.25. A1.2 – SECOND FLOOR PLAN

REPLACE A1.2 – Added access panels to fire dampers, coordinate with mechanical equipment locations, changed wall type to fire rated shaft wall, dated 2/9/2022

4.26. A1.3 – ROOF PLAN

REPLACE A1.3 – Adds locations for walk-pads, and updates to coordinate with mechanical equipment locations, dated 2/9/2022.

- **4.27.** A2.1 EXTERIOR BUILDING ELEVATIONS REPLACE A2.1 – Adds building sign elevation and section, dated 2/9/2022
- **4.28.** A2.2 EXTERIOR BUILDING ELEVATIONS REPLACE A2.2 – Adds monument site sign elevation and section, dated 2/9/2022
- **4.29.** A3.7 STAIR SECTIONS & DETAILS REPLACE A3.7 – Adds correct to handrail offset, dated 2/9/2022
- **4.30.** A3.9 LOADING DOCK SECTIONS & DETAILS REPLACE A3.9 – Adds code compliant dimensions, and edge protection curb, dated 2/9/2022

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4.31. A3.10 – ALTERNATES

REPLACE A3.10 – Adds graphic depiction of alternate #4, dated 2/9/2022

4.32. A4.1 – STAIRS 1 & 2 ENLARGED PLANS REPLACE A4.1 – Adds corrected code compliant handrail extension dimensions, dated 2/9/2022

- **4.33.** A4.2 ENLARGED TOILET ROOM PLANS REPLACE A4.2 – Corrects urinal screen to be code compliant distance from wall, dated 2/9/2022
- **4.34.** A5.2 INTERIOR ELEVATIONS REPLACE A1.1 – Added gypsum wall niche to Conference Room 101, dated 2/9/2022.
- 4.35. A6.1 DOOR SCHEDULE AND ELEVATIONS REPLACE A6.1 – Adds door threshold detail for doors to roof, dated 2/9/2022
- **4.36.** A6.6 INTERIOR STOREFRONT ELEVATIONS AND DETAILS REPLACE A6.6 – Adds note identifying glazing code compliance to FBC Energy Code matching glazing specification for basis of design product, dated 2/9/2022
- 4.37. A8.0 FINISH SCHEDULE

REPLACE A8.0 – Revises Basis of Design for ceiling finish 'WD-1' and wall finish 'WD-2,' adds general notes for ceiling and above-ceiling paint selections, dated 2/9/2022

- **4.38. S2.0 FOUNDATION PLAN REPLACE S2.0 –** Adds top of footing notations as requested, dated 2/9/2022
- 4.39. S5.03 FOUNDATION DETAILS REPLACE S5.03 – Corrects footing stem wall dimension on detail 10, dated 2/9/2022
- 4.40. S8.01 SITE RETAINING WALL ADD S8.01 – Adds design for site retaining wall, to be constructed under separate permit per City of Tallahassee, dated 2/9/2022

Attachments:

SEE ADDITIONAL NARRATIVE FROM AFFILIATED ENGINEERS

Revised Specifications, 095426, 099113, 123600, 211314, 230901A, 237323, 237400, dated 2/9/2022.

FLOW TEST REPORT TREE MITIGATION REPORT

Revised Sheets (30x42): G1.0, C-2. C2.1, C-3, C-3.1, C-3.2, U-1, D-1, LA.1, IR.1, G1.2, LS1.0, LS1.1, LS1.2, A1.0. A1.01, A1.1, A1.2, A1.3, A2.1, A2.2, A3.7, A3.9. A3.10, A4.1, A4.2, A5.2, A6.1, A6.6, A8.0, S2.0, S5.03, S8.01, marked Addendum #4 and dated 2/9/2022.

BY: Architects: Lewis + Whitlock, PA Stivers, AIA



North Florida Innovation Laboratories	004	
Project	Addendum Number	
Tallahassee, FL	21556-00	
Project Location	AEI Project Number	
ALW		
То	Client Project Number	
AEI	2022 February 8	
From	Date	
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Subject	Page	Typist

This addendum is issued to modify or interpret previously issued documents by additions, deletions, clarifications, or corrections. It forms a part of the previously issued documents.

This addendum may include revised pages and drawings, which shall be inserted before the corresponding page or drawings in the previously issued documents. Revised pages and drawings are identified by the corresponding addendum number and date

SPECIFICATIONS

SECTION 21 1314 - AUTOMATIC FIRE SPRINKLER SYSTEM

• Removed building fire department connection requirements.

SECTION 23 0901A - CONTROL SYSTEMS

Removed references to pneumatic controls.

SECTION 23 7323 – FACTORY FABIRCATED CUSTOM AIR HANDLING UNITS

- Added reference to Control System section for control dampers.
- Removed hot gas reheat coil references.
- Removed references to belt-driven fans.
- Added fan array redundancy requirement.

SECTION 23 7400 – PACKAGED ROOFTOP AIR HANDLING UNITS

- Edited unit roof curb for vibration isolation style.
- Removed hot gas reheat references.
- Removed inapplicable subsections including energy recovery and 100% OA controls.

DRAWINGS

SHEET M2.1 - FIRST FLOOR DUCT PLAN

Added duct smoke detector to return duct in Corridor 100C

SHEET M2.2 – SECOND FLOOR DUCT PLAN

Added duct smoke detector to return duct in Office 213D

SHEET M2.3 – ROOF MECHANICAL PLAN

Added General Note 4

SHEET M7.3 – MECHANICAL CONTROLS

• Deleted hot gas reheat coil.

SHEET M8.2 – MECHANICAL DETAILS

Added Detail Note 3

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SHEET E1.1 – SITE ELECTRICAL PLAN

- Added "Call Before You Dig" information.
- Revised Sheet Keynote #1 for CT cabinet.

SHEET E1.2 – SITE LIGHTING PLAN

• Added "Call Before You Dig" information.

SHEET E2.1 – FIRST FLOOR LIGHTING PLAN

- Added downlights above booths in Break Room 129.
- Revised switches in Break Room 129.
- Added missing downlight in Women's RR 108.
- Revised locations of light fixtures at sinks in Women's RR 108.
- Added downlight at shower in Unisex 118.

SHEET E2.2 – SECOND FLOOR LIGHTING PLAN

- Added downlights above booths in Break Room 236.
- Revised switches in Break Room 236.
- Revised locations of light fixtures at sinks in Women's RR 212.
- Revised fixture tag for 3' pendant at entry to Shared Work/ Open Collab 202.

SHEET E4.1 – FIRST FLOOR SYSTEMS PLAN

• Added duct smoke detector to duct in Corridor 100C.

SHEET E4.2 – SECOND FLOOR SYSTEMS PLAN

• Added duct smoke detector to duct in Office 213D.

SHEET E7.1 – ELECTRICAL POWER RISER DIAGRAM

- Revised feeder designation at incoming service.
- Added General Notes requiring signage for fault current calculations and emergency generator.
- Added Sheet Keynote for energy reduction maintenance switch at main service.

SHEET E7.2 - GROUNDING AND SOLAR PV RISER DIAGRAMS

• Added grounding connection to concrete-encased electrode.

SHEET E9.1 – ELECTRICAL LUMINAIRE AND EQUIPMENT SCHEDULES

- Added finish colors to several light fixtures.
- Revised Kelvin color temperature for several light fixtures.
- Revised mounting height for a few light fixtures.
- Added fixture type P4A.
- Revised fixture type P6.

SHEET P0.1 – PLUMBING SYMBOLS & ABBREVIATIONS

• Added waste cast iron piping label.

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SHEET P9.1 – PLUMBING SSCHEDULES

• Added note to fixtures schedule.

SHEET F0.1 – FIRE PROTECTION SYMBOLS & ABBREVIATIONS

• Added flow test information.

SHEET F2.1 – FIRST FLOOR FIRE PROTECTION PLAN

- Removed building fire department connection.
- Removed sheet keynote.
- Revised sheet keynote.

SHEET F2.2 – SECOND FLOOR FIRE PROTECTION PLAN

• Removed sheet keynote.

SHEET F8.1 – FIRE PROTECTION DETAILS

• Removed fire department connection.

END OF ADDENDUM

SECTION 095426 SUSPENDED WOOD CEILINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Linear wood planks for ceilings and walls.
- B. Metal suspension system.

1.02 RELATED REQUIREMENTS

1.03 REFERENCE STANDARDS

- A. ASTM C635/C635M Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings 2017.
- B. ASTM C636/C636M Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels 2019.
- C. ASTM E580/E580M Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions 2020.
- D. CISCA (WC) Wood Ceilings Technical Guidelines 2009.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Sequence work to ensure ceilings are not installed until building is enclosed, dust generating activities have terminated, and overhead work is completed.

1.05 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate grid layout and related dimensioning, attachment of wood ceiling components to grid, accessory attachments, junctions with other ceiling finishes, and mechanical and electrical items installed in the ceiling.
- C. Product Data: Provide data on wood ceiling components and suspension system components.
- D. Samples: Submit two full size samples illustrating material and finish of wood ceiling components.
- E. Manufacturer's Qualification Statement.
- F. Installer's Qualification Statement.

1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum 5 years documented experience.
- B. Installer Qualifications: Company specializing in performing the work of this section.
 1. Minimum 3 years documented experience.
- C. Design Criteria: Mannufacturer of Linear Closed wood wall and ceiling system LC-1-xxxx-C shall be installed true and plumb to within manufacturing tolerance of 1/8" within 8' of length.
- D. Product Construction: Wood shall be kiln dried to 10%. Cracking, checking and warpage of members will not be acceptable.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver wood ceiling components to project site in original, unopened packages.
- B. Store in fully enclosed space, flat, level and off the floor.

1.08 FIELD CONDITIONS

- A. Do not install suspended wood ceiling system until wet construction work is complete and permanent heat and air conditioning is installed and operating.
- B. Maintain room temperature between 60 degrees F and 75 degrees F and relative humidity between 35 to 55 percent before, during, and after installation.

North Florida Innovation Labs 100% Construction Documents

SEE ALSO BIDDER QUESTION RESPONSES FOR SUBSTITUTION REQUEST APPROVAL FOR ALTERANTE PRODUCT.

Addendum #4 2/9/2022

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Suspended Wood Ceilings:
 - 1. Basis of Design: Architectural Components Group Inc; Linear Close Series 1 Wood Wall & Ceiling System: www.acgiwood.com/product_detail/Linear/393

2.02 SUSPENDED WOOD CEILING SYSTEM

- A. Performance Requirements:
 - 1. Design for maximum deflection of 1/360 of span.
- B. Linear Wood Planks: Solid wood
 1. Type: Pre-finished continous plank system with closed reveal.
 - a. Plank Thickness. 3/4 inch.
 - b. Plank Width: 6 inches, nominal.
 - c. Plank Spacing (Reveal): Reveal C by ACGI.
 - d. Species: White Oak.
 - e. Finish: stain to match architect's sample.
- C. Metal Suspension System (Ceilings):
 - 1. General: Comply with ASTM C635/C635M; die cut and interlocking components, with perimeter moldings, hold down clips, stabilizer bars, clips, and splices as required.
 - 2. Concealed Suspension System: Hot-dipped galvanized steel grid and cap.
 - a. Structural Classification: Heavy-duty, when tested in accordance with ASTM C635/C635M.
 - b. Profile: Tee; 15/16 inch face width.
 - c. Finish/Color: Baked enamel, black.
 - 3. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement.
- D. Wall Attachment System: per design details provided on the plans.
- E. Accessories: Manufacturer's standard accessories for installation method indicated, aboveceiling accessibility.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Do not install ceiling until after interior wet work is dry.

3.02 PREPARATION

- A. Layout wood ceiling components in pattern according to reflected ceiling plan and as shown on shop drawings.
- B. Acclimate wood ceiling materials by removing from packaging in installation area a minimum of 48 hours prior to installation.

3.03 INSTALLATION

- A. General: Install suspended wood ceiling system in accordance with CISCA (WC).
- B. Suspension System:
 - 1. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions and as supplemented in this section.
 - 2. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
 - 3. Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
 - 4. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.

- 5. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
- 6. Do not eccentrically load system or induce rotation of runners.
- C. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
- D. Wood Ceiling:
 - 1. Install wood ceilings in accordance with manufacturer's instructions.
 - 2. Fit wood components in place, free from damaged edges or other defects detrimental to appearance and function.
 - 3. Install components in uniform plane, and free from twist, warp, and dents.
 - 4. Cut to fit irregular grid and perimeter edge trim.
 - 5. Make field cut edges of same profile as factory edges, seal and finish according to manufacturer.
 - 6. Install alignment clips at plank joints.

3.04 CLEANING

A. Clean and touch up minor finish damage. Remove and replace components that cannot be successfully cleaned and repaired.

END OF SECTION 095426

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SECTION 099113 EXTERIOR PAINTING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Field application of paints.
- C. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
 - 1. Exposed surfaces of steel lintels and ledge angles.
- D. Do Not Paint or Finish the Following Items:
 - 1. Items factory-finished unless otherwise indicated; materials and products having factoryapplied primers are not considered factory finished.
 - 2. Items indicated to receive other finishes.
 - 3. Items indicated to remain unfinished.
 - 4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
 - 5. Stainless steel, anodized aluminum, bronze, terne coated stainless steel, zinc, and lead.
 - 6. Floors, unless specifically indicated.
 - 7. Brick, glass unit masonry, architectural concrete, cast stone, integrally colored plaster and stucco.
 - 8. Glass.
 - 9. Concealed pipes, ducts, and conduits.

1.02 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide complete list of products to be used, with the following information for each:
 - 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
 - 2. MPI product number (e.g. MPI #47).
 - 3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.

1.03 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum 10 years documented experience.
- B. Applicator Qualifications: Company specializing in performing the type of work specified with minimum 5 years experience and approved by manufacturer.

1.04 MOCK-UP

A. See Section 014000 - Quality Requirements, for general requirements for mock-up.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

1.06 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C. Do not apply exterior paint and finishes during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- D. Provide lighting level of 80 ft candles measured mid-height at substrate surface.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.
- B. Paints:
 - 1. PPG Paints: www.ppgpaints.com/#sle.
 - 2. Sherwin-Williams Company: www.sherwin-williams.com/#sle.

2.02 PAINTS AND FINISHES - GENERAL

- A. Paints and Finishes: Ready mixed, unless required to be a field-catalyzed paint.
 - 1. Where MPI paint numbers are specified, provide products listed in Master Painters Institute Approved Product List, current edition available at www.paintinfo.com, for specified MPI categories, except as otherwise indicated.
 - 2. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
 - 3. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.
 - 4. Supply each paint material in quantity required to complete entire project's work from a single production run.
 - 5. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.
- B. Volatile Organic Compound (VOC) Content: Comply with Section 016116.
- C. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by Architect from the manufacturer's full line.
- D. Colors: To be selected from manufacturer's full range of available colors.
 - 1. Selection to be made by Architect after award of contract.

2.03 PAINT SYSTEMS - EXTERIOR

A. Paint E-OP - Exterior Surfaces to be Painted, where indicated: concrete masonry units, and primed metal.

1. Two top coats and one coat primer.

- 2. Top Coat(s): Exterior Light Industrial Coating, Water Based; MPI # 163.
 - a. Application: General, all exterior primed metal including exposed structural steel, hollow metal doors and frames.
 - b. Products:
 - 1) PPG Paints Pitt-Tech Plus WB DTM Industrial Enamel, 90-1210 Series, Semi-Gloss. (MPI #163)
- 3. Top Coat(s): Exterior High Build Latex; MPI #40.
 - a. Application: General, concrete and concrete masonry units.
 - b. Products:
 - 1) PPG Paints Perma-Crete Exterior Acrylic High Build, 4-22 Series.

2.04 PRIMERS

- A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.
 - 1. Interior/Exterior Latex Block Filler; MPI #4.
 - a. Products:

- 1) Kilz Pro-X p50 Block Filler Primer.
- 2. Anti-Corrosive Alkyd Primer for Metal; MPI #79.
 - a. Products:
 - 1) PPG Paints Speedhide Interior/Exterior Rust Inhibitive Steel Primer, 6-212 Series. (MPI #79)

2.05 ACCESSORY MATERIALS

- A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.
- B. Patching Material: Latex filler.
- C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially effect proper application.
- C. Test shop-applied primer for compatibility with subsequent cover materials.
- D. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
 - 1. Exterior Plaster and Stucco: 12 percent.
 - 2. Masonry, Concrete, and Concrete Masonry Units: 12 percent.

3.02 PREPARATION

- A. Clean surfaces thoroughly and correct defects prior to application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing.
- D. Seal surfaces that might cause bleed through or staining of topcoat.
- E. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- F. Concrete:
 - 1. Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
 - 2. Clean surfaces with pressurized water. Use pressure range of 1,500 to 4,000 psi at 6 to 12 inches. Allow to dry.
 - 3. Clean concrete according to ASTM D4258. Allow to dry.
- G. Masonry:
 - 1. Remove efflorescence and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces or if alkalinity of mortar joints exceed that permitted in manufacturer's written instructions. Allow to dry.
 - 2. Prepare surface as recommended by top coat manufacturer.
 - 3. Clean surfaces with pressurized water. Use pressure range of 600 to 1,500 psi at 6 to 12 inches. Allow to dry.
- H. Exterior Plaster: Fill hairline cracks, small holes, and imperfections with exterior patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.
- I. Galvanized Surfaces:
 - 1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
 - 2. Prepare surface according to SSPC-SP 2.

- J. Ferrous Metal:
 - 1. Solvent clean according to SSPC-SP 1.
 - 2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
 - 3. Remove rust, loose mill scale, and other foreign substances using using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 "Commercial Blast Cleaning". Protect from corrosion until coated.
- K. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.

3.03 APPLICATION

- A. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
- B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- C. Apply each coat to uniform appearance.
- D. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply additional coats until complete hide is achieved.
- E. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- F. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.04 CLEANING

A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.05 PROTECTION

- A. Protect finishes until completion of project.
- B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION 099113

SECTION 123600 COUNTERTOPS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Countertops for architectural cabinet work.

1.02 REFERENCE STANDARDS

- A. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials 2015a.
- B. AWI/AWMAC/WI (AWS) Architectural Woodwork Standards 2014.
- C. AWMAC/WI (NAAWS) North American Architectural Woodwork Standards 2021, with Errata.
- D. ISFA 3-01 Classification and Standards for Quartz Surfacing Material 2013.
- E. MIA (DSDM) Dimensional Stone Design Manual, Version VIII 2016.
- F. NEMA LD 3 High-Pressure Decorative Laminates 2005.
- G. PS 1 Structural Plywood 2009.

1.03 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Specimen warranty.
- C. Shop Drawings: Complete details of materials and installation ; combine with shop drawings of cabinets and casework specified in other sections.
- D. Verification Samples: For each finish product specified, minimum size 6 inches square, representing actual product, color, and patterns.
- E. Test Reports: Chemical resistance testing, showing compliance with specified requirements.
- F. Certificate: Submit labels and certificates required by quality assurance and quality control programs.
- G. Maintenance Data: Manufacturer's instructions and recommendations for maintenance and repair of countertop surfaces.

1.04 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in performing work of the type specified in this section, with not less than three years of documented experience.
- B. Quality Certification:
 - 1. Provide labels or certificates indicating that the installed work complies with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade or grades specified.
 - 2. Provide designated labels on shop drawings as required by certification program.
 - 3. Provide designated labels on installed products as required by certification program.
 - 4. Submit certifications upon completion of installation that verifies this work is in compliance with specified requirements.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.06 FIELD CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.01 COUNTERTOPS

- A. Quality Standard: Premium Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
- B. Natural Quartz over continuous substrate.
 - 1. Flat Sheet Thickness: 1-1/4 inch, minimum.
 - 2. Natural Quartz Slabs: Complying with ISFA 3-01 and NEMA LD 3; [_____] resin, mineral filler, and pigments; homogenous, non-porous and capable of being worked and repaired using standard woodworking tools; no surface coating; color and pattern consistent throughout thickness.
 - a. Factory fabricate components to the greatest extent practical in sizes and shapes indicated; comply with the MIA Dimension Stone Design Manual.
 - b. Surface Burning Characteristics: Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84.
 - c. Finish on Exposed Surfaces: Polished.
 - d. Color and Pattern: As indicated on drawings.
 - 3. Other Components Thickness: 3/4 inch, minimum.
 - 4. Exposed Edge Treatment: Built up to minimum 1-1/4 inch thick; mitered edge.
 - 5. Fabricate in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 11 Countertops, Premium Grade.

2.02 MATERIALS

- A. Wood-Based Components:
 - 1. Wood fabricated from old growth timber is not permitted.
 - 2. Provide sustainably harvested wood, certified or labeled as specified in Section 016000 -Product Requirements.
 - 3. Provide wood harvested within a 500 mile radius of the project site.
- B. Plywood for Supporting Substrate: PS 1 Exterior Grade, A-C veneer grade, minimum 5-ply; minimum 3/4 inch thick; join lengths using metal splines.
- C. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.

2.03 FABRICATION

- A. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
 1. Join lengths of tops using best method recommended by manufacturer.
 - Fabricate to overhang fronts and ends of cabinets 1 inch except where top butts against cabinet or wall.
 - 3. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or fixture holes.
- B. Provide back/end splash wherever counter edge abuts vertical surface unless otherwise indicated.
 - 1. Secure to countertop with concealed fasteners and with contact surfaces set in waterproof glue.
 - 2. Height: 4 inches, unless otherwise indicated.
- C. Solid Surfacing: Fabricate tops up to 144 inches long in one piece; join pieces with adhesive sealant in accordance with manufacturer's recommendations and instructions.
- D. Grommets: Provide 2" diamter round grommet with plastic cover.
 - 1. Provide one at the following locations: Print Lounge 107, Print Lounge 211
 - 2. Provide two each at the following locations: Admin. 104, Conference Room 101

E. Wall-Mounted Counters: Provide skirts, aprons, brackets, and braces as indicated on drawings, finished to match.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Verify that wall surfaces have been finished and mechanical and electrical services and outlets are installed in proper locations.

3.02 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 INSTALLATION

- A. Securely attach countertops to cabinets using concealed fasteners. Make flat surfaces level; shim where required.
- B. Seal joint between back/end splashes and vertical surfaces.

3.04 TOLERANCES

- A. Variation From Horizontal: 1/8 inch in 10 feet, maximum.
- B. Offset From Wall, Countertops: 1/8 inch maximum; 1/16 inch minimum.
- C. Field Joints: 1/8 inch wide, maximum.

3.05 CLEANING

A. Clean countertops surfaces thoroughly.

3.06 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION 123600

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SECTION 211314 AUTOMATIC FIRE SPRINKLER SYSTEM

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This Section specifies materials and methods for the following systems.
 - 1. Sprinkler
- B. Extend piping to 5 feet outside the building wall and connect to the site fire system.
- C. Research indicates there is no documentation or indication that microbiologically influenced corrosion (MIC) exists in the area of the project.
- D. NFPA 13's seismic requirements are not part of this project.
- E. This is not a Factory Mutual Global (FMG) protected property.
- F. Engineer of Record:
 - 1. This is a performance-based specification. Affiliated Engineers is the Engineer of Record.
 - a. The Engineer has prepared Signed-and-Sealed Drawings and Specifications.
 - b. Provide engineering design, system layout, and hydraulic calculations.
 - c. Do not Sign-and-Seal fabrication drawings or hydraulic calculations.
 - d. The Contract Documents establish the requirements and parameters for system design and installation.

1.02 RELATED WORK

- A. Section 20 0000 General Mechanical Requirements
- B. Section 20 0520 Excavation and Backfill
- C. Section 20 0529 Mechanical Supporting Devices
- D. Section 20 0553 Mechanical Systems Identification
- E. Section 28 3116 Multiplexed Fire Detection and Alarm Systems

1.03 QUALITY ASSURANCE

- A. Product Components and Materials are to comply with FAR 52.225-9 Buy American Act Construction Materials (May 2014), with the following words inserted in the indicated space in paragraph (b)(2): "The articles listed in FAR 25.104(a) that are acquired as construction materials."
- B. Codes and Standards:
 - 1. This installation shall conform to the following:
 - a. NFPA 13, Installation of Sprinkler Systems (2016 Edition)
 - b. NFPA 24, Installation of Private Fire Service Mains and Their Appurtenances (2016 Edition)
 - c. NFPA 45, Fire Protection for Laboratories Using Chemicals (2015 Edition)
 - d. NFPA 72, National Fire Alarm Code (2016 Edition)
 - e. NFPA 101, Life Safety Code (2018 Edition)
 - f. Underwriters Laboratories (UL) Fire Protection Equipment Directory
 - g. Florida Building Code (2020 Edition)
- C. Contractor Installation Program:
 - 1. Provide journeyman sprinkler fitter(s) for installation and supervision.
 - 2. Provide fire protection installer licensed in the State of Florida for installation of fire protection systems.
 - 3. Submit pre-qualification evidence of at least three projects of comparable size successfully completed with their Bid.
- D. Electrical Coordination
 - 1. All relays, wire, conduit, pushbuttons, pilot lights, and other devices required for power side or the control of electrical equipment shall be furnished by Division 26 and Division 28 Contractors, except as specifically noted elsewhere in this Specification.

- 2. Should any change in electrical equipment size, horsepower rating, or means of control be made to any motor or other electrical equipment after contracts are awarded, Division 21 Contractor is to immediately notify Division 26 and Division 28 Contractors of this change and pay any costs due to this change.
- 3. Division 26 Contractors shall provide all power wiring and Division 21 Contractor shall be responsible for providing all control wiring and its conduit. Control wiring shall conform to Division 26 and 28 requirements for control wiring.
- 4. Furnish wiring diagrams to Division 26 and Division 28 Contractors for equipment and devices furnished by Division 21 Contractor which have been indicated to be wired by Division 26 and Division 28 Contractors.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to the site under provisions of Division 01.
- B. Store and protect products under provisions of Division 01.
- C. All materials shall be stored in a clean, dry space.
- D. Promptly inspect shipments to ensure material is undamaged and complies with Specifications. Storage and protection methods must allow inspection to verify products.
- E. Furnish pipe with plastic end-caps/plugs on each end of pipe. Maintain end-caps/plugs through shipping, storage and handling, and installation to prevent pipe-end damage and to eliminate dirt and construction debris from accumulating inside of pipe. Protect fittings and unions by storage inside or by durable, waterproof, aboveground packaging.
- F. Cover pipe to prevent corrosion or deterioration while allowing sufficient ventilation to avoid condensation. Do not store materials directly on grade.
- G. Offsite storage agreements will not relieve Contractor from using proper storage techniques.

1.05 SUBMITTALS

- A. Pre-qualification documents
- B. Product Data:
 - 1. Pipe
 - 2. Valves
 - 3. Tamper switches
 - 4. Flow switches
 - 5. Sprinklers
 - 6. Fire department connections
 - 7.<u>6.</u>Pressure gauges
 - 8.7. Material Safety Data Sheet (MSDS) for corrosion inhibitive paint
- C. Shop Drawings:
 - 1. Fabrication Drawings
- D. Calculations:
 - 1. Hydraulic Calculations
- E. Submit to Local Authority for Review:
 - 1. Product data sheets
 - 2. Fabrication drawings
 - 3. Hydraulic calculations
- F. Review Letters:
 - 1. Local Authority review letter
- G. Reports:
 - 1. Pipe Pressure Test Reports
- H. Certifications:
 - 1. NFPA Exterior Piping Certifications
 - 2. NFPA Sprinkler Certifications
 - 3. Performance testing for double check backflow preventer assembly.

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Addendum 04

- I. Closeout Documents:
 - 1. NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Materials and Equipment:
 - 1. Materials and equipment in system shall be new and current products of manufacturer regularly engaged in production of such materials and equipment.
 - 2. Where two or more pieces of equipment are required to perform interrelated functions, they shall be products of same manufacturer.
- B. Approval Guides:
 - 1. Products shall be UL Listed in the latest publication of the UL Fire Protection Equipment Directory or approved in the latest Factory Mutual Research Corporation Approval Guide for service intended.

2.02 PIPE

- A. Below Ground:
 - Pipe: Ductile iron, Class 52, American Water Works Association (AWWA) C151, minimum 350 psi working pressure, with standard cement mortar lining, AWWA C104, American National Standards Institute (ANSI) A21.4
 - 2. Fittings: Ductile iron or grey iron, mechanical joint, 350 psi working pressure, AWWA C153, cement mortar lined, AWWA C104
 - 3. Encasement: Polyethylene encasement, 8 mil thick, AWWA C105
- B. Above Ground:
 - 1. Carbon Steel, 2" and smaller:
 - a. Pipe: Carbon steel pipe, Schedule 40, American Society for Testing of Materials (ASTM) A795 or A53
 - b. Fittings:
 - 1) Malleable iron, threaded, Class 150, 300 psi Cold Water Pressure (CWP) rating, ASME B16.3
 - 2) Cast iron, threaded, Class 125, 175 psi CWP rating, ANSI B16.4
 - 3) Cast iron, flanged, Class 125, 175 psi CWP rating, ANSI B16.1
 - 4) Carbon steel butt weld, ASTM A234 Grade WPB/American Society of Mechanical Engineers (ASME) B16.9, standard weight, seamless
 - 5) Ductile iron or malleable iron, roll grooved for mechanical coupling, 175 psi CWP rating, malleable iron conforming to ASTM A47.
 - a) Acceptable manufacturers: Anvil Gruvlok, Tyco Grinnell, Victaulic, Viking, or equal
 - b) Fitting, gasket, and coupling shall be furnished by same manufacturer.
 - c. Joints:
 - 1) Threaded, tapered pipe threads, ANSI B1.20.1
 - 2) Flanged, cast iron, 175 psi CWP rating, ANSI B16.1, square head machine bolts with semi-finished hexagon nuts, ASTM A183, neoprene gasket
 - 3) Welded, welding electrodes shall be Lincoln or equal with coating and diameter as recommended by manufacturer for type and thickness of work being done.
 - 4) Mechanical:
 - a) Flexible mechanical, malleable iron, ASTM A47, equal to Victaulic Style 75
 - b) Rigid mechanical, ductile iron, ASTM A-536, equal to Victaulic Style 009N
 - c) Wet systems gasket: Grade E EPDM gasket per UL 157 and UL 213
 - d) Dry systems gasket: Victaulic "FlushSeal" or equal

- e) Rigid or zero flex type couplings shall be provided when operating pressures cause piping to move out of place or sway on hangers. Flexible couplings may be used where pipe is braced or clamped into rigid position.
- 2. Carbon Steel, larger than 2":
 - a. Pipe: Carbon steel pipe, Schedule 10, ASTM A795, A53, or A135
 - b. Fittings:
 - 1) Carbon steel butt weld, ASTM A234 Grade WPB/ASME B16.9, Schedule 10, seamless
 - 2) Ductile iron or malleable iron, roll grooved for mechanical coupling, 175 psi CWP rating, malleable iron conforming to ASTM A47.
 - a) Acceptable manufacturers: Anvil Gruvlok, Tyco Grinnell, Victaulic, Viking, or equal
 - b) Fitting, gasket, and coupling shall be furnished by same manufacturer.
 - c. Joints:
 - 1) Welded, welding electrodes shall be Lincoln or equal with coating and diameter as recommended by manufacturer for type and thickness of work being done.
 - 2) Mechanical:
 - a) Flexible mechanical, malleable iron, ASTM A47, equal to Victaulic Style 75
 - b) Rigid mechanical, ductile iron, ASTM A-536, equal to Victaulic Style 009N
 - c) Wet systems gasket: Grade E EPDM gasket per UL 157 and UL 213
 - d) Dry systems gasket: Victaulic "FlushSeal" or equal
 - e) Rigid or zero flex type couplings shall be provided when operating pressures cause piping to move out of place or sway on hangers. Flexible couplings may be used where pipe is braced or clamped into rigid position.
- 3. Flexible sprinkler hose fittings for fire protection service shall be manufactured by FlexHead Industries, Inc., 56 Lowland Street, Holliston, MA 01746; Telephone: (800) 829-6975. No substitutions allowed. Product shall be FMRC Approved for its intended use pursuant to FM 1637 Approval Standard for Flexible Sprinkler Hose with Threaded End Fittings. Product shall be UL Listed for its intended use pursuant to UL 2443 Standard for Flexible Sprinkler Hose with Fittings for Fire Protection Service. For seismic projects, product shall be seismically qualified for use pursuant to ICC–ES AC-156 Acceptance Criteria for Seismic Qualification by Shake-Table Testing of Nonstructural Components and Systems. Provide high pressure fittings where pressures exceed 175 psi water working pressure. Model numbers on high pressure fittings must include the "H" suffix.
 - a. FlexHead Flexible Hose Assemblies and End Fittings:
 - 1) Composition: 100% Type 304 Stainless Steel
 - Shall be fully welded non-mechanical fittings, braided, leak-tested with minimum 1" true-bore internal corrugated hose diameter
 - 3) Flex hose assembly length shall be limited to a maximum of 4 ft.
 - 4) Straight Hose Assembly Lengths: 4 ft length, Model #2048
 - 5) Elbow Hose Assembly lengths: 4 ft length, Model #2048E
 - b. FlexHead Ceiling Bracket:
 - 1) Composition: Type G90 Galvanized Steel
 - 2) Type: Direct attachment type, having integrated snap-on clip ends positively attached to the ceiling using tamper-resistant screws
 - 3) Flexible hose attachment: Removable hub type with set screw
- 4. Provide metal pipe's exposed threads with corrosion inhibitive paint, equal to Rust-Oleum.
- Provide pipe identification system with flow directional arrows on fire protection pipe. For additional information about pipe identification, refer to Section 20 0553 – Mechanical Systems Identification.

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- 6. Plain end couplings (Roust-A-Bouts, Plainloks or similar couplings) are not allowed on either new or existing sprinkler systems.
- 7. Adjustable drop nipples are not allowed on either new or existing sprinkler systems.
- 8. Shop welded joints:
 - a. Welding electrodes shall be Lincoln or equal with coating and diameter as recommended by manufacturer for type and thickness of work being done.

2.03 UNDERGROUND RESTRAINT

- A. Acceptable manufacturers: EBAA Iron, Inc., Smith-Blair, or equal
- B. Mechanical Joints Utilizing Setscrew Retainer Glands
 - 1. Mechanical joint restraint device for nominal pipe sizes 3" through 12" per AWWA C151, shall consist of multiple gripping wedges incorporated into a follower gland meeting the applicable requirements of AWWA C110/A21.10, body, wedges and wedge actuating components shall be cast from grade 65-45-12 ductile iron material in accordance with ASTM A536, minimum working pressure rating of 350 psi, includes torque limiting breakaway nuts, allows for a minimum of 3° of deflection, and includes fusion-bonded epoxy coating per AWWA C213.
 - 2. Mechanical restraint coupling gasket shall be furnished by same manufacturer.
- C. Pipe Clamps and Tie Rods
 - 1. Clamps, rods, and washers shall be sized per the requirements listed in NFPA 24.
 - a. Clamps shall be made of steel, used to prevent joint separation through use in combination with rod clamp washers, rod couplings, and heavy hex nuts.
 - b. Rods shall be carbon steel per ASTM A193 GR B7, using rolled threads for improved physical characteristics, greater thread accuracy, and smooth surface finish.

2.04 UNDERGROUND PENETRATION MODULAR SEAL

- A. Acceptable manufacturers: GPT Industries, Roxtec, or equal
- B. Modular sealing device consisting of sealing elements, pressure fittings, and hardware preassembled from manufacturer.
 - 1. Sealing elements: EPDM rubber that adjusts to the outside diameter of the pipe to ensure proper fitment and sealing.
 - 2. Pressure resistant to a minimum of 20 psig (40 ft. of head).
 - 3. Bolts and nuts: 316 stainless steel per ASTM F593
- C. Basis of Design: GPT Industries Link-Seal, Roxtec Model RS, or equal

2.05 VALVES

- A. Gate Valve:
 - 1. Acceptable manufacturers: Kennedy, Milwaukee Valve Co., Mueller, Nibco, Stockham, Victaulic, or equal
 - 2. Outside screw and yoke (OS&Y) gate valve, bronze body and trim or cast iron body bronze mounted and rated for 175 psi, non-shock water working pressure, Nibco F-607-OTS or equal.
- B. Vertical Post Indicator Valve:
 - 1. Acceptable manufacturers: Kennedy, Mueller, Nibco, Stockham, Victaulic, or equal
 - 2. Non-rising stem (NRS) gate valve, ductile iron body, resilient wedge, epoxy coated interior and exterior, includes indicator post flange and flange screw, rated for 300 psinon-shock cold working pressure, Nibco F-609-RWS or equal.
 - Cast iron post with lockable lever operator for use with non-rising stem gate valve, 1" square valve stem extension rod, UV-stabilized Lexan window containing cast aluminum signage reading "OPEN" and "SHUT", Kennedy Model 2495A, Nibco NIP-1AJ, Victaulic Series 774, or equal.
- C. Check Valve:

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- 1. Acceptable manufacturers: Globe Fire Sprinkler, Reliable, Tyco Fire Products, Victaulic, Viking, or equal
- 2. Iron body, bronze seat, stainless steel clapper with a replaceable rubber seal, Globe Fire Sprinkler Model RCV, Tyco Fire Products CV-1F, Viking Model G-1, or equal.
- D. Check Valve (Anti-Water-Hammer type)
 - 1. Acceptable manufacturers: Anvil Gruvlok, Reliable, Tyco Fire Products, Victaulic, Viking, or equal
 - 2. Ductile iron conforming to ASTM A536, Grade 65-45-12, rust inhibiting coating, sizes 2" to 5" consisting of stainless steel clapper conforming to ASTM A-167 and for sizes 6" to 8" consisting of ductile iron clapper conforming to ASTM A-536, Anvil Gruvlok Series 7800 or equal.
- E. Ball Valve:
 - 1. Acceptable manufacturers: Milwaukee Valve Co., Mueller, Nibco, Stockham, Victaulic, or equal
 - 2. Bronze body and stem, full port design, brass ball with chrome plated finish, conforms to MSS SP-110 standard, Nibco Model KT-585-70-UL or equal.
- F. Globe/Drain Valve:
 - 1. Acceptable manufacturers: Milwaukee Valve Co., Mueller, Nibco, Stockham, Victaulic, or equal
 - Bronze body, stem, bonnet, and packing nut; non-asbestos packing; nitrile seat disc; stainless steel handwheel screw or nut; Nibco Model KT-65-UL for valve sizes 1/2" to 1", Nibco Model KT-211-W-UL for valve sizes 1-1/4" to 2", or equal.
- G. Butterfly Valve:
 - 1. Acceptable manufacturers: Globe Fire Sprinkler, Kennedy, Milwaukee Valve Co., Mueller, Nibco, Stockham, Tyco Fire Products, Victaulic, or equal
 - 2. Globe Fire Sprinkler Model GL300 for valve sizes 1" to 2-1/2", or equal.
 - 3. Globe Fire Sprinkler Model GLR300 2-1/2" to 8", Kennedy Valve Co. Fig. G300 for sizes 2-1/2" to 6", Victaulic FireLock Series 705 for valve sizes 2-1/2" to 8", or equal.
- H. Double Check Backflow Prevention Assembly (DCBP):
 - 1. Acceptable manufacturers: Ames, Apollo, Cla-Val, Febco, Watts, or equal
 - 2. Weighted clapper double check valve assembly including 2 supervised outside screw and yoke (OS&Y) gate valves
 - 3. Assembly shall be double check valve assembly for cross connection devices.
 - 4. Certified in accordance with ASSE 1015 and AWWA C510
 - 5. Double check valve shall be selected based on minimal pressure drop to allow maximum available pressure to sprinkler system.
- I. Test and Drain Valves:
 - 1. Acceptable manufacturers: AGF, Globe Fire Sprinkler, Victaulic, or equal
 - 2. AGF TESTanDRAIN, Globe Fire Sprinkler Model UTD, Victaulic Style 720 TestMaster II, or equal.
 - 3. Test and drain valve shall include integral pressure relief valve. Pressure relief valve shall be set to operate at 175 psi or 10 psi in excess of the maximum system pressure, whichever is greater.
- J. Riser Manifold:
 - 1. Acceptable manufacturers: Globe Fire Sprinkler, Tyco Fire Products, Victaulic, Viking, or equal
 - 2. Ductile iron or fabricated steel pipe body; threaded or grooved connections; rated to 175 psi non-shock water working pressure; includes test and drain valve with integral pressure relief valve kit, flow switch without optional cover tamper kit, and pressure gauge; Globe Fire Sprinkler Model UM, Tyco Fire Products Model RM-1, or equal.
- K. Universal Manifold Check Assembly:

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- 1. Acceptable manufacturers: Globe Fire Sprinkler or equal
- 2. Ductile iron construction, incorporating a control valve, check valve, flow switch, test & drain assembly, adjustable pressure relief valve, and pressure gauges in one compact body/footprint, manufactured for right- and left-hand orientations, rated for use at the maximum service pressure of 300 psi, and UL Listed and FM Approved. The test & drain assemble shall contain an adjustable pressure relief valve, with a range of 175 psi to 310 psi, and a universal test orifice of K2.8. Globe Fire Sprinkler Model UMC or equal.
- L. Air Release Valve:
 - 1. Acceptable manufacturers: Engineered Corrosion Solutions, Potter Electric Signal Co., or equal
 - Automatic float type air vent, ball valve with tamper switch, Y-type strainer, and single set of normally closed dry contacts rated 24VAC/DC at 2 Amps, UL 2573 Listed, FM Approved "Automatic Air Release Valve for Sprinkler Systems", rated to 175 psi non-shock water working pressure, Potter Electric Signal Co. Model PAAR-B or equal.
 - 3. Air release valve shall be installed in an accessible location to permit operation, maintenance, and visual inspection of the status of the valve.
- M. Provide identification sign (enamel on metal) for valves per NFPA requirements. For additional information, refer to Section 20 0553 Mechanical Systems Identification.
- N. Valves in galvanized piping shall be bronze.

2.06 TAMPER SWITCH

- A. Acceptable manufacturers: Potter Electric Signal Co., System Sensor, or equal
- B. Outside screw and yoke (OS&Y) supervisory switch, NEMA 4 enclosure, provided with 2 sets of SPDT (Form C) contacts rated at 2.5 Amps at 30 VDC and 15 Amps at 125/250 VAC. Provide without optional cover tamper kit. For areas identified as hazardous locations, provide "EX" Model. Potter Electric Signal Co. OSY series or equal.
- C. Control valve supervisory switch, NEMA 4 enclosure, provided with 2 sets of contacts rated at 2.5 Amps at 30 VDC and 15 Amps at 125/250 VAC. Provide without optional cover tamper kit. For areas identified as hazardous locations, provide "EX" Model. Potter Electric Signal Co. PIBV series or equal.
- D. Tamper switch shall be capable of transmitting signal during first 2 revolutions of handwheel or during 1/5 of travel distance of valve control apparatus from its normal position.
- E. Unit shall be compatible with building's fire alarm system.

2.07 FLOW SWITCH

- A. Acceptable manufacturers: Potter Electric Signal Co., System Sensor, or equal
- B. Vane type waterflow switch for use in wet sprinkler systems, minimum 300 psi service pressure rating, 10 gpm minimal flow rate to activate alarm, and 2 sets of SPDT (Form C) contacts. Provide without optional cover tamper kit. Potter Electric Signal Co. VS series or equal.
- C. Unit shall be compatible with building's fire alarm system.

2.08 SPRINKLERS

- A. Manufacturers:
 - 1. Unless otherwise noted below, shall be manufactured by Globe Fire Sprinkler, Reliable, Tyco Fire Products, Viking, or equal.
- B. Automatic, having temperature and pressure rating suitable for location.
- C. Light hazard occupancies shall utilize quick-response type sprinklers.
- D. Architect will review deviations from specified styles for approval prior to installation.
- E. Provide the following type of sprinklers
 - 1. Unfinished areas such as mechanical spaces:
 - Standard Coverage, Brass Upright or Pendent, ordinary temperature class (155°F), Globe Fire Sprinkler Model GL-QR, Tyco Fire Products Model TY-FRB, Viking Microfast, or equal.

- b. Extended Coverage, Brass Upright or Pendent, large orifice, ordinary temperature class (155°F), Globe Fire Sprinkler Model GL-ECOH, Tyco Fire Products Model EC-11/14, Viking ECOH-ELO, or equal, designed and installed per its listing
- 2. In areas with ceilings.
 - a. Standard Coverage, Concealed Pendent, ordinary temperature class (155°F), Globe Fire Sprinkler Model GL-QR/INCH, Tyco Fire Products Model RFII, Viking Mirage, or equal adjustable sprinkler with 139°F temperature class cover plate, mounted flush with ceiling. Cover plate color shall match ceiling color and shall be factory-painted (i.e. by manufacturer).
 - Standard Coverage, Semi-Recessed, ordinary temperature class (155°F), Globe Fire Sprinkler Model GL-QR, Tyco Fire Products TY-FRB, Viking Microfast, or equal. Sprinkler and escutcheon finish shall be standard bright white.
- 3. In areas where ceiling conditions do not permit installation of pendent sprinkler or finished area where sidewall sprinkler provides better coverage of hazard.
 - a. Standard Coverage, standard bright white finish, ordinary temperature class (155°F), Globe Fire Sprinkler Model GL-QR/SW, Tyco Fire Products Model TY-FRB, Viking Microfast horizontal (HSW) or vertical (VSW) sidewall with Viking Microfast Model F-1 adjustable escutcheon, or equal.
 - Extended Coverage, standard bright white finish, ordinary temperature class (155°F), Globe Fire Sprinkler Model GL-QR/ECLH/SW, Tyco Fire Products Model TY-FRB or equal designed and installed per its listing
- 4. In areas requiring coverage of exterior areas and projections.
 - a. Standard Coverage or Extended Coverage, white finish dry horizontal sidewall, intermediate temperature class (200°F), adjustable recessed chrome escutcheon, Globe Fire Sprinkler Model GL-QR/DRY, Tyco Fire Products Model DS-1 or equal.
- F. Submit samples for examination and approval when appearance is different than sprinkler specified.
- G. Temperature class of sprinklers shall vary if installed close to heat sources, under skylights or in special hazard areas as defined on contract drawings. Refer to NFPA 13 for requirements.
- H. Spare Sprinkler Cabinets:
 - 1. Shall be complete with required number of spare sprinklers of each type and temperature rating per NFPA 13.
 - 2. Shall be provided with at least one sprinkler wrench for each type of sprinkler installed.
 - 3. Provide multiple cabinets to meet this requirement.
 - 4. Coordinate cabinet locations with Owner's representative.

2.09 FIRE DEPARTMENT CONNECTION (FDC)

- A. Acceptable Manufacturers: Badger-Powhatan, Croker, Elkhart Brass, Guardian Fire Equipment, Potter-Roemer, Tyco Fire Products
- B. Flush Fire Department Connection: Potter-Roemer 5023-D-F, cast brass body, drop clappers, faceplate, two 2–1/2" snoots, pin-lug hose thread swivels, pin-lug plugs with chains, integral sillcock, polished chrome plated finish, AUTOSPKR lettering.

2.010 BALL DRIP

- A. Acceptable manufacturer: Potter-Roemer, Reliable, Tyco Fire Products, or equal
- B. Provide bronze ball drip for fire department connection (FDC) inside of building and pipe to nearest floor drain or discharge to exterior.
- C. Exterior discharge location must be coordinated with Architect and Owner.

2.0112.09 HANGERS

- A. Acceptable manufacturers: Afcon, Anvil, Eaton, Pentair, Tolco, or equal
- B. Concrete expansion hangers, when provided, are to be Hilti, Illinois Tool Works (ITW), Powers Fasteners, or equal. Concrete hangers shall be rated for cracked concrete conditions.

Addendum 04

- C. Hanger rods shall comply with Manufacturer Standardization Society (MSS) standards and manufacturer's published load rating.
- D. Provide hanger rod, hanger rod attachments, pipe stands, bolts, U-bolts, nuts, studs and washers with electroplated zinc coating or with hot-dipped galvanized finish.
- E. Riser clamps shall be electroplated zinc coated or have a hot-dipped galvanized finish and shall not protrude more than 2" beyond edge of hole, Anvil Fig. 261 or equal.

2.0122.010 PRESSURE GAUGES

- A. Acceptable manufacturers: Ashcroft, Potter-Roemer, Viking, or equal
- B. Pressure gauges shall be 3-1/2", corrosion resistant moving parts, polycarbonate window, and provided with connection not smaller than 1/4" NPT.
- C. Include ball valve with provisions for draining on each pressure gauge.

2.0132.011 DIELECTRIC FITTINGS

- A. Acceptable manufacturers: Epco Sales, Lochinvar, Watts Regulator Co., Wilkins, or equal
- B. Dielectric unions 2" and smaller; dielectric flanges 2" and larger; with iron female pipe thread to copper solder joint or brass female pipe thread end connections, non-asbestos gaskets, and pressure rating of not less than 175 psig at 180°F.

PART 3 - EXECUTION

3.01 DESIGN CRITERIA

Flow Test: TBD

- A. Contractor shall provide an up to date flow test prior to preparation of installation drawings and hydraulic design calculations.
- B. Hydraulically calculated system shall be designed to a minimum of 10% below available water flow curve.
- C. Systems that are hydraulically calculated must include 1.2 factor for design area.
- D. Basis of Design:
 - 1. Office areas and general building spaces shall be hydraulically designed to provide minimum density of 0.10 gpm per sq ft over most hydraulically remote 1500 sq ft. Maximum spacing shall not exceed 225 sq ft per head.
 - 2. Laboratory areas, including corridors between labs separated from office areas by doors and firewalls, shall be hydraulically designed to provide minimum density of 0.15 gpm per sq ft over most hydraulically remote 1500 sq ft. Maximum spacing shall not exceed 130 sq ft per head.
 - 3. Chemistry labs shall be hydraulically designed to provide minimum density of 0.20 gpm per sq ft over most hydraulically remote 1500 sq ft. maximum spacing shall not exceed 130 sq ft per head.
 - 4. Mechanical equipment areas shall be hydraulically designed to provide minimum density of 0.15 gpm per sq ft for most remote 1500 sq ft. Maximum spacing shall not exceed 130 sq ft per head.
 - 5. General storage areas and chemical transfer area shall be hydraulically designed to provide minimum density of 0.15 gpm per sq ft over most hydraulically remote 1500 sq ft. Maximum spacing shall not exceed 130 sq ft per head.
- E. Hose Streams:
 - 1. Light Hazard Occupancy: 100 gpm inside/outside hose allowance
 - 2. Ordinary Hazard Occupancy: 250 gpm inside/outside hose allowance

3.02 INSPECTION

Addendum 04

A. Investigate site conditions; verify utility locations and elevations before start of excavation. Forward discrepancies to Architect/Engineer before proceeding with construction.

3.03 INSTALLATION

- A. Install hydraulically designed sprinkler system and associated accessories according to requirements of NFPA 13 and as shown on drawings.
- B. Install pipe, fittings, couplings, and valves according to requirements of manufacturer.
- C. Keep materials within listed temperature range to assure jointing in accordance with manufacturer's requirements.
- D. Pipe and fittings shall be of corresponding materials when assembled.
- E. Underground Pipe:
 - 1. Underground pipe shall be restrained against movement at changes in direction per the requirements of NFPA 24. Restraint shall be provided by using thrust blocks or one of the following methods:
 - a. Mechanical joint restraint utilizing setscrew retainer glands
 - 1) Mechanical joint restraint shall require conventional tools and installation procedures per AWWA C600, while retaining full mechanical joint deflection during assembly as well as allowing joint deflection after assembly.
 - 2) Proper actuation of the gripping wedges shall be ensured by use of torque limiting twist off nuts.
 - b. Pipe clamps and tie rods
 - c. Locking mechanical or push-on joints
 - d. Bolted flange joints
 - 2. Thrust blocks shall be of concrete, of a mix not leaner than one part cement, two and onehalf parts sand, and fire parts stone.
 - 3. Wherever possible, thrust blocks shall be located so that the joints are accessible for repair.
 - 4. Pipe clamps and tie rods shall not be installed where the pipe penetrates building walls or floors.
 - 5. Threaded sections of rods shall not be formed or bent.
 - 6. Except for fittings, valves, glands, and other accessories having an epoxy-coated finish, all rods, nuts, bolts, washers, clamps, and other restraining devices shall be cleaned and thoroughly coated with a bituminous or other acceptable corrosion-retarding material after installation.
 - Provide metallic bond at each joint of ductile iron and cast iron pipe. Bond wire shall be type RHW-USE size 1/0 neoprene-jacketed copper conductor shaped to stand clear of joint.
 - 8. Polyethylene encasement shall be installed for ductile iron pipe. Refer to AWWA C105-10 for material standards and installation procedures.
- F. Above Ground Pipe:
 - 1. Provide pipe identification system with flow directional arrows on fire protection pipe in accordance with manufacturer's installation instructions. For additional information, refer to Section 20 0553 Mechanical Systems Identification.
 - 2. Coat exposed threads with corrosion inhibitive paint, equal to Rust-Oleum. Apply paint per manufacturer's instructions.
- G. Provide readily removable fittings at end of cross-mains. Minimum size of flushing connection shall be 2".
- H. Provide test connection for each flow switch.
- I. Discharge test connections inside building to receptacles provided as part of plumbing system or to standpipe's drain riser.
- J. Drain line detailed adjacent to standpipe/sprinkler risers shall be considered as part of Sprinkler System from combination test/auxiliary drain valve for each zone or sub-zone shown on plans to plumbing receptacle.

- K. Provide auxiliary drains at low points of systems per requirements of NFPA 13.
- L. Identify valve with brass tag denoting which flow switch is being tested, when test valves are located remote from flow switch.
- M. Clamp-on or saddle type fittings (i.e. mechanical tees) are not allowed. Outlet fittings inserted into holes drilled into piping or pipe-o-lets are not allowed.
- N. Provide reducing fittings or provide shop fabricated weld-o-lets to change pipe sizes in sprinkler/standpipe systems. No bushings or grooved reducing couplings, such as Victaulic Style 750, are allowed.
- O. Feed sprinklers, installed in finished ceilings, with FlexHead, swing joint, or return bend arrangement for final positioning in ceiling grid pattern during construction phases.
- P. All arm-over and flexible sprinkler fittings shall be taken from the sides or top of the branch line. No arm-overs or flexible sprinkler fittings shall be connected to the bottom of the branch line.
- Q. Sprinklers are required to be installed in the center of ceiling tiles.
- R. Install tamper switch on each shutoff valve.
- S. Install sprinklers as recommended by manufacturer. Sprinklers shall be set level and at locations to avoid interference with spray pattern of sprinkler. When ducts and lights are obstructions to sprinkler distribution, provide additional sprinklers beneath obstruction.
- T. Make joints of threaded pipe by cutting pipe square and reaming inside.
- U. Use joint compound sparingly.
- V. Install joints for mechanical coupled pipe according to manufacturer's recommendations. Use manufacturer's gasket lubricant sparingly.
- W. Pipe grooving shall be per coupling manufacturer's instructions.
- X. Welded joints shall be made in fabrication shop. No welding allowed at project site.
- Y. Hangers, Bracing, and Restraint of System Piping:
 - 1. Provide hangers and associated parts to support piping in perfect alignment without sagging or interference, to permit free expansion and contraction, and meet requirements of NFPA 13 and manufacturer's installation instructions.
 - 2. Select and size building attachments per Manufacturer Standardization Society (MSS) standards and manufacturer's published load rating.
 - 3. Coordinate hanger support installation to group piping of all trades.
 - 4. Hang pipe from building members using either concrete inserts for concrete construction or beam clamps for steel construction. Installation shall comply with manufacturer's installation instructions. Expansion type inserts may be used for branch piping.
 - Restraining clips/clamps are required in locations where vibration may be a concern. Refer to Section 23 0550 – Vibration Isolation, for additional information regarding restraining clips/clamps.
 - 6. Suspend hangers by means of electroplated zinc or hot-dipped galvanized finish hanger rods. Perforated band iron and flat wire straps (strap iron) are not allowed.
 - 7. Mains parallel to joists shall not be supported from a single joist. Mains parallel to joists shall be supported by trapeze hanger and be positioned equally between two joists. Trapeze hangers shall be positioned to load joists at panel points only.
 - 8. Support pipe from top flange of beams.
 - 9. Where joists are used, locations of pipe supports shall be approved by the structural engineer prior to installation.
 - 10. Do not support equipment or piping from metal roof deck.
- Z. Install pressure gauges as required in manufacturer's installation instructions, and as required per NFPA standards.
- AA. Generally install capped tees in lieu of couplings for future connections.

3.04 CLEANING

A. Flush sprinkler system to purge cutting oil, debris and metal fines.

- B. Ensure underground feed pipe has been flushed per NFPA 24 to clear out construction debris, prior to connecting aboveground fire protection system to it.
- C. Clean systems after installation is complete.
- D. Clean piping both internally and externally to remove dirt, plaster dust, or other foreign materials. When external surfaces of piping are rusted, clean and restore surface to original condition. Replacement of heavily soiled and deteriorated materials shall be done at the Contractor's expense.
- E. Clean equipment as recommended by manufacturers. Thoroughly clean equipment of stains, paint spots, dirt, dust, and any other foreign materials. Remove temporary labels not used for instruction or operation.

3.05 TESTING

- A. Refer to testing paragraph of Section 20 0000 General Mechanical Requirements.
- B. Coordinate fire pump test with Division 26 and Division 28 contractors.
- C. Perform all NFPA required acceptance tests.
- D. Test sprinkler system as entire system or partial system. System shall be hydrostatically tested at not less than 200 psi or 50 psi above static pressure in excess of 150 psi for 2 h. No leakage allowed. Replace defective joints with new materials. No caulking of defective joints allowed. Re-test system after defective joints are replaced, until satisfactory results are obtained.
- E. Hydrostatically test piping between the exterior fire department connection (FDC) and the check valve in the fire department inlet pipe in the same manner as the balance of the system.
- F. Pipe shall not be concealed until satisfactorily pressure tested.
- G. Conduct drain test. Record static pressure and residual pressure per NFPA 13.
- H. Owner's representative or engineer may witness tests. Contractor shall notify Owner and Engineer a minimum of 3 days in advance to allow for participation.
- I. Log of tests shall be kept at job site and shall identify:
 - 1. Who performed test
 - 2. Time of test
 - 3. Date of test
 - 4. Section of system tested
 - 5. Results of test
 - 6. Completed Contractor's Material and Test Certification form(s) from NFPA 13
 - 7. Operate flow switches to test that signals are transmitted to Fire Alarm Control Panel.
- J. Include test for tamper switches.

END OF SECTION

SECTION 230901A CONTROL SYSTEMS

PART 1 - GENERAL

1.01 RELATED WORK

- A. Section 20 0513 Motors
- B. Section 23 0550 Vibration Isolation
- C. Section 23 2118 Valves
- D. Section 26 0519 Low-Voltage Electrical Power Conductors and Cables
- E. Section 26 0533 Raceway and Boxes for Electrical Systems
- F. Control Sequences: Refer to Drawings

1.02 REFERENCE

A. Work under this Section is subject to requirements of Contract Documents including General Conditions, Supplementary Conditions, and sections under Division 01 General Requirements.

1.03 DEFINITIONS

- A. The following abbreviations, acronyms, and definitions are used in addition to those details found elsewhere in contract documents.
 - 1. Actuator: Control device to provide motion of valve or damper in response to
 - control signal
 - 2. Al: Analog Input
 - 3. AO: Analog Output
 - 4. Analog: Continuously variable state over stated range of values
 - 5. Auto-Tune: Software routine used to adjust tuning parameters based on historical data
 - 6. BAS: Building Automation System
 - 7. BMS Building Management System
 - 8. DDC: Direct Digital Control
 - 9. DDCP: Direct Digital Control Panel
 - 10. Discrete: Binary or digital state
 - 11. DI: Discrete Input (Sometimes referred to as Binary Input BI)
 - 12. DO: Discrete Output (Sometimes referred to as Binary Output BO)
 - 13. EMCS: Energy Management and Control System (Typically interchangeable with BAS or BMS)
 - 14. E/P: Voltage to pneumatic transducer (Often a solenoid valve is referred to as an E/P transducer)
 - 15. FA Field Adjustable
 - 16. FC: Fail Closed position of control device or actuator. Device moves to closed position on loss of control signal or energy source
 - 17. FMS: Facility Management System linking two or more BAS
 - 18. FO:
 Fail Open position of control device or actuator. Device moves to open
 - position on loss of control signal or energy source
 - 19. I/P:
 Current to pneumatic transducer
 - 20. Instrument: Device used for sensing input parameters or used for actuation21. Modulating: Movement of a control device through an entire range of values
 - proportional to an infinitely variable input value
 - 22. Motorized: Control device with actuator
 - 23. NC:Normally Closed position of switch after control signal is removed24. NO:Normally Open position of switch after control signal is removed
 - 25. Node: DDCP, operator workstation, or other control device connected to communication's network

26. Operator:	Same as actuator for motorized devices. Also refers to an individual who physically "operates" the facility
27. PC:	Personal Computer
28. Peer-to-Peer:	Mode of communication between controllers in which each device connected to network has equal status and each shares its database values with all other devices connected to network.
29. P:	Proportional control, control mode with continuous linear relationship between observed input signal and final controlled output element.
30. PI:	Proportional - Integral control, control mode with continuous proportional output plus additional change in output based on both amount and duration of change in controlled variable (Reset control).
31. PID:	Proportional - Integral - Derivative control, control mode with continuous correction of final controlled output element versus input signal based on proportional error, its time history (reset), and rate at which its changing (derivative).
32. Point:	Analog or discrete instrument with addressable database value
33. Self-Tune:	Same as Auto-Tune
34. Solenoid:	Electric two position actuator (See E/P)
35. TCC:	Temperature Control Contractor (Same as Control Contractor).
36. TCP:	Temperature Control Panel

1.04 ACCEPTABLE CONTROL CONTRACTORS

- A. Control Contractor shall have full service office within 100 miles of Project site. Full service office is defined as having complete parts inventory, having all required test and diagnostic equipment, and to be home office of Applications Engineers, Supervisors, and Field Technicians. Control Contractors shall be factory authorized agent or dealer of controllers and control hardware as manufactured by:
 - 1. Siemens Building Technologies
 - 2. Johnson Controls, Inc
 - 3. Honeywell, Inc
 - 4. Alerton Technologies
 - 5. Automated Logic Corporation
 - 6. KMC Controls

1.05 SYSTEMS DESCRIPTION

- A. System shall be electric and/or electronic.
- B. Control system shall be Direct Digital Control (DDC).
- C. Damper and valve actuators shall be electric type, unless otherwise noted.
- D. Damper and valve actuators for major equipment in mechanical rooms shall be electric type, unless otherwise noted. Actuators for all remote devices located in spaces outside of mechanical rooms shall be electronic type.
- E. Provide modular designed stand-alone DDCP capable of future BAS architecture with low/medium speed communication networks. Upgrade to full BAS architecture shall not require removal of existing DDCP, sensors, actuators, etc.
- F. Provide BAS architecture consisting of communication network, operator workstations, modular designed DDCP with all points addressable and modifiable from operator workstations or from master DDCP using laptop computer. BAS shall be fully expandable with addition of hardware and/or software. Expansion shall not require removal of existing DDCP, sensors, actuators, or communication networks.
- G. System shall support operator workstations as specified and shall be capable of additional workstations, limited only by systems maximum node capacity.

- H. System intelligence shall be such that operator workstation(s) can be used for programming controls, performing analysis on filed data, generating maintenance and operation reports and providing permanent storage for programs and data.
- I. Operator Workstations (OWS) and printers will be furnished by Owner.
- J. Provide hardware interface card to communicate with BAS network and all required software for each workstation, as defined in this Section, to make each PC full function workstation.
- K. All safety devices shall function in both auto and hand modes on starter.
- L. All safety devices shall function in both VFD and bypass starter modes.
 - 1. Dampers interlocked with fans shall operate in both VFD and bypass starter modes to prevent dead-head of fans.
 - 2. Valves interlocked with pumps shall operate in both VFD and bypass modes of operation to prevent dead-head of pump.

1.06 SCOPE OF WORK

- A. Provide all labor and materials for complete and fully functioning control systems in accordance with Contract Documents including this Section.
- B. Engineering services shall be performed by factory-trained engineers. System shall be installed either by trained mechanics directly employed by Control Contractor or by subcontractors who are under direct supervision of Control Contractor's field representative.
- C. Control Contractor shall be responsible for complete installation of all control devices, (except as noted) and, wiring, and pneumatic terminations at DDCP locations to accomplish control sequences specified in this project manual or on drawings. Power for field mounted devices that require 24 VAC, 60 Hz shall be powered from 120 to 24 VAC transformer panels provided by the Control Contractor. Control Contractor shall also be responsible for any additional instrumentation described in point schedules found in Contract Documents, which may not be directly related to any specified control sequences.
- D. Mechanical Contractor shall furnish and install all wells, taps, and other mechanical interfaces required for control equipment mounting into piping systems. Mechanical Contractor shall install all in-line mounted devices, such as valves, dampers, flow meters, static pressure probes, etc., furnished by Control Contractor. Control Contractor is responsible for installation of all other control devices, such as actuators, linkages, sensors, air terminal controllers, flow transducers, remote mounted control devices, control panels, control transformers, etc.
- E. Coordinate requirements above with Mechanical Engineer and Section 23 3600 Air Terminal Devices, for required control devices. Define what is to be provided to the Air Terminal manufacturer for mounting at the factory, what the Mechanical Contractor is to install in the field and what the Control Contractor is to install in the field.
- F. All electrical work required, as integral part of work is responsibility of Control Contractor. Provide final control power connections including conduit, wire, and/or disconnect switches to all control devices from appropriate electrical distribution panels.
 - 1. Electrical Contractor will provide circuit breakers, junction boxes, and wiring required to provide electrical power to DDCP's panels.
 - 2. 120 to 24 VAC transformer panels shall be mounted adjacent to DDCP panels and powered from dedicated electrical circuit.
 - 3. Should any change in number of DDCPs or addition of other electrical equipment after contracts are awarded, Control Contractor shall immediately notify Electrical Contractor of change. Additional costs due to these changes shall be responsibility of this Contractor.
- G. Materials shall be as specified unless approved through procedures for product substitution specified in Division 01. Control Contractor shall provide components not specifically indicated or specified, but necessary to make system function within the intent of specification.
- H. All electrical products to be listed and labeled by UL and comply with NEMA Standards.
- I. Provide weather protection cover or weatherproof control devices where required for control devices located outdoors.

1.07 SUBMITTALS

- A. Shop Drawings:
 - 1. Refer to Division 01 General Requirements.
 - 2. Submit manufacturer's printed product data sheets for all control devices and all materials listed in bill of material in Control Contractor's control drawings. Organize sheets in order of model number, alphabetically, then numerically.
 - 3. Submit data concerning type of signal wiring and installation methods including raceway types and grounding methods.
 - a. Submit voltage drop calculations for all low voltage DDC circuits. Voltage drop to include number of devices and wiring run lengths, calculated voltage available at each device.
 - 4. Submit control drawings including, but not limited to, the following:
 - a. Front sheet index for projects with more than 10 control drawing sheets.
 - b. Overall system/network architecture drawings: Provide block diagram showing relationship of each controller, control panel, or other network devices relative to each other, label room location of each device, number and indicate model number of each device, indicate network types, and general cabling routing.
 - c. Control Drawings: Provide graphic representation of systems with all major inline components to properly locate all control devices. Identify controlled devices with their software designation on drawings, including unique valve and damper tag numbers.
 - Detailed wiring and piping diagrams show point-to-point hookup details of all transducers, relays, outputs, inputs and subsystem components. Label all pneumatic lines and control wires with field ID numbers/colors.
 - e. Bill of Materials: Identify actual product model number used for each control device for each schematic control drawing.
 - 1) Bill of material shall be included on flow diagrams for each system and on panel layouts showing panel components.
 - f. Sequence of operation: Provide written narrative describing each control sequence indicating method of control. Identify sensors, controllers, and actuators used with references to tag number of the controlled device. Include setpoints and offsets of each control loop.
 - 5. Instrumentation submittals can be submitted as a separate submittal from control shop drawings but must be submitted at the same time as control shop drawings.
 - 6. Submit valve schedules with shop drawings that indicate unique tag numbers for each device, equipment or system served, device model numbers, sizes, shutoff head required, actuator air pressure or force required to meet shutoff head, torque requirements for rotary valves, flow coefficients (Cv) for 10% and 100% valve stem travel, actual flow requirements based on equipment shop drawings, calculation of actual pressure drops, actuator model number, actuator torque capacities and pilot positioner locations.
 - 7. Valve and damper shop drawing submittals will not be processed unless all supporting data and sizing calculations are included.
 - 8. Submit damper schedules with shop drawings that indicate unique tag numbers for each device, equipment or system served, device model numbers, duct sizes, damper sizes, flow rates, pressure differentials, calculation of actual damper pressure drops, approach velocities, leakage rates, torque requirements, actuator model number, actuator torque capacities and pilot positioner locations.
 - 9. Select dampers to meet their intended service with respect to maximum approach velocities and maximum pressure differential. Damper materials shall match duct construction materials in which they are installed (galvanized steel, aluminum, 304 or 316 stainless steel, etc.).
 - 10. Aluminum dampers may be used in galvanized ductwork.

- B. Thermostat/Room Sensor Schedules:
 - 1. Submit thermostat/room sensor schedule with shop drawings. Thermostat/room sensor schedule shall have detailed listing of which type is used for each room including data concerning service and model numbers, sizes, cover types, and engineering data sheets for each control device.
- C. Operation and Maintenance Manuals:
 - 1. Refer to Division 01 General Requirements.
 - 2. Operation and maintenance manuals shall provide descriptions of maintenance on all system components, including sensors and controlled devices. These shall include inspection requirements, periodic preventative maintenance, fault diagnosis, and repair or replacement of defective components, calibration instructions, parts lists, and name, address, and phone number of manufacturers' representative.
- D. Software Manual:
 - 1. As part of operation and maintenance manuals, submit one software manual per workstation plus one extra copy for archive use. Software manuals shall be divided into separate parts with tabs for each part.
 - 2. Software Manual parts shall include:
 - a. Complete description of operating system including all commands, configuration programs, printouts, logs, database functions and passwords. Describe general operating procedures, starting with system overview and proceeding to detailed description of each software command feature with sample printed displays and system function description for each option. Include instructions on verifying errors, status, changing passwords and initiating or disabling control programs.
 - b. Complete description of programming language including all commands, configuration programs, control loop functions and testing. Describe general programming procedures, starting with system overview and proceeding to detailed description of each software command feature. Include instructions on creating or modifying any control algorithm or parameter, debugging, etc. This shall include all control functions, algorithms, mathematic equations, variables, setpoints, time periods, messages, and other information necessary to load, alter, test and execute custom or pre-written programs.
 - c. Software Backup: Upon successful completion of acceptance testing, submit to Owner 2 archive copies of all accepted versions of source code and compiled code for all application programs and data files, on CD ROM backup disks. All control software must be readily accessible by Owner using BAS workstation hardware and software.
- E. Record Drawings:
 - 1. Refer to Division 01 General Requirements.
 - 2. Submit revised Shop Drawings indicating all changes made during project.

1.08 VALVE SELECTION AND SIZING

- A. General:
 - Select control valves to meet their intended service without cavitation. Provide cavitation calculations for modulating globe control valves over 250°F and all modulating butterfly valves over 60°F.
 - 2. Select control valves and actuators for 100% shut-off against system maximum differential pressure.
 - 3. Valve body ratings indicated in Part 2 are minimum required. Valve body, trim and packing selected shall be designed to withstand maximum pressure and temperature encountered in the systems.
 - 4. Submit engineering calculations for sizing modulating control valves unless valves are scheduled. Control valves serving terminal devices may be sized based on flow ranges for each pump system.

- 5. Shut-off and two-position valves shall be full pipe size.
- 6. Calculations for sizing modulating valves shall be based on actual characteristics of equipment and system being installed. Valve calculations shall include information such as pump head or available pressure; branch piping circuit losses including all pipe, fittings, valves, and coils; flow rates; and pressure losses of other in-line devices.
- 7. Control Contractor is responsible for obtaining adequate system information necessary for sizing.
- B. Instrumentation Shut-off Valves:
 - 1. Unless otherwise noted, instrumentation shut-off valves for isolation of gauges, switches, transmitters, etc., shall be as follows:
 - a. Compressed air/instrumentation air systems: ball or plug-type valves
 - b. Water systems: globe-type valves
 - c. Steam and condensate systems: gate-type valves
 - d. Ductwork, air handling unit or air terminal device penetrations: ball or plug-type valves
 - e. Liquid line sampling valves: multiple turn, metering-type valves
- C. Water Valves:
 - 1. Design criteria for sizing modulating valves shall be based on two port, normally open, equal percentage valves unless otherwise specified. Heating control valves shall be globe type and shall be selected for a minimum of 25% of equipment subcircuit pressure drop, but not more than maximum available pump head allowing minimum 2 psi drop for balance valve.
 - 2. Select control valves based on pressure drop calculations based on Cv values at 100% stroke.
 - 3. Subcircuit is defined as all of branch supply and return piping to terminal device, including all valve, coil, control valves, and balance valve.

1.09 DAMPER SELECTION AND SIZING

- A. Submit Engineering calculations for sizing modulating control dampers including outside, return, and relief air dampers of air handling units unless dampers are scheduled.
- B. Calculations for sizing dampers shall be based on actual characteristics of ductwork system being installed. Opposed blade dampers shall be sized for minimum of 10% of duct system pressure drop. Parallel blade dampers shall be sized for minimum of 30% of duct system pressure drop. Duct section is defined as ductwork containing flow control damper starting with inlet or branch tee and ending with outlet or branch tee. Calculate actual duct pressure drops for each duct section containing modulating damper using latest version of ASHRAE Handbook of Fundamentals. If control systems fixes pressure drop, use those pressure setpoints. Use balance damper to provide additional pressure drop as required to obtain linear damper response.
- C. Control Contractor is responsible for obtaining adequate system information necessary for sizing.
- D. Provide dampers as shown on drawings or as scheduled.
- E. Two position dampers shall be sized as close as possible to duct size, but in no case is damper size to be less than duct area.
- F. Submit leakage and flow characteristics data for all control dampers along with shop drawings. Leakage ratings to be based on AMCA Standard 500 and dampers to bear AMCA Air Leakage Seals.

1.010 FCC COMPLIANCE

A. All digital equipment furnished under this contract shall have been tested and made to comply with limits for Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against interference when operated in commercial environment. All literature shall so note and all equipment shall be so labeled to show this compliance.
PART 2 - PRODUCTS

2.01 GENERAL

A. Pressure and temperature ratings of devices indicated in Part 2 are minimum required. All devices shall be designed to withstand maximum pressure and temperature encountered in the system.

2.02 CONTROL WIRING

- A. Control wiring shall be in accordance with National Electric Code and local electrical codes. Final connection points at devices and panels shall be made at terminal blocks either integral to device or separate terminal blocks mounted inside of control panel enclosures. Use of wire nuts and crimped connections are not allowed for terminating control wiring unless approved by Engineer.
- B. Refer to Division 26 for specification requirements for conduits and conductors, except as noted.
- C. Signal and Power Conductors (24 V and Under):
 - No wire smaller than #18 AWG shall be used, except for manufacturer supplied instrument specific wire, or unless otherwise specified. Use 2 wire stranded twisted/shielded pair 24 VDC for analog and/or discrete input and 24 VAC/VDC output devices. For RTD signal wiring, use #18 AWG stranded, tinned copper twisted/shielded three lead conductors.
 - 2. Conductors not concealed in raceway shall have UL listed plenum rated teflon insulation.
 - Communication Cable: Use control system manufacturer's standard communications cable or #22 to #24 AWG twisted, shielded pairs, coaxial cable, or fiber optics for communications between remote control panels/devices. Provide 250 ohm, 5 watt, 0.1% tolerance dropping resistors in 4 – 20 mA circuits as required to generate 1 to 5 V signals in 24 VDC powered instrument loops. Provide isolated instrument grounding system per manufacturer's recommendations.
 - 4. 24 VAC Power Conductors shall be #18 AWG, 2-wire twisted pair or larger. Provide Metal Oxide Varistors (MOVs) on 24 VAC/VDC discrete outputs connected to inductive loads to reduce noise levels (i.e., solenoid valves, motor contactors, relays, damper/valve electric actuators, etc.).
 - 5. Stranded twisted/shielded control conductors are required with the shields to be terminated within variable frequency Drive enclosures to reduce the effects of noise from VFD. Follow VFD manufacturer's installation instructions for wiring control conductors to VFD.

2.03 LOCAL CONTROL PANELS

- A. Local control panels shall be constructed of steel or extruded aluminum with hinged door and keyed lock, with baked enamel finish of manufacturer's standard color. Construction shall comply with NEMA 1 Standards for interior panels, NEMA 4 for exterior panels.
- B. Controlling instruments, temperature indicators, relays, switches and gauges shall be factory installed and permanently labeled. Devices shall be located inside or mounted on face of panel.
- C. Unless otherwise indicated, mount control and adjusting switches, temperature indicators and other indicating or manually operated devices on front face of panel with black phenolic engraved nameplates.

2.04 DIRECT DIGITAL CONTROL PANEL (DDCP)

A. General:

 Direct Digital Control Panels (DDCP) shall be microprocessor based, field programmable controllers, capable of performing control and energy management functions, and shall be UL Listed as Signaling Systems. Each DDCP shall include its own microprocessor, power supply, input/output modules, and termination modules as required to perform its intended function.

- DDCP shall receive discrete electrical or analog electronic field input signals, convert signals for use by controller, perform control sequences, convert controller information into output signals, and provide control output signals to actuators and field control device. All inputs and outputs, including communication connections, shall be electrically or optically isolated from controller.
- 3. DDCP with analog input modules shall be capable of accepting any form of linear or nonlinear voltage (0-5 VDC or 0-10 VDC), current (4-20 mA) or resistive input (0-1000 ohm).
- DDCP with discrete input modules shall be capable of accepting discrete inputs from any device with isolated, dry-type contacts (no grounds or no voltage) of either normally open (NO) or normally closed (NC) configuration. Provide visible status lights (LEDs) to indicate input point status.
- 5. Provide input modules capable of interfacing with pulsed output type sensors as required.
- 6. DDCP with discrete output modules shall have isolated, dry-type contacts (no grounds or no voltage) of either normally open (NO) or normally closed (N.C.) configuration.
- 7. Provide manual H-O-A override switch for each discrete output point. Provide feedback point to BAS to indicate when output point has been overridden. Provide visible status lights (LEDs) to indicate output point status.
- 8. DDCP shall have capability to scale, offset, and display proper analog value without field hardware modification. DDCP shall convert analog input signals to digital values (A/D conversion) and convert digital values to analog outputs (D/A conversion) for modulating control purposes.
- Failsafe hardware shall be provided such that BAS failures result in immediate return to local control. If DDCP uses database values from other DDCP and communication network fails or malfunctions, control loop outputs shall continue to function using last value received from BAS.
- 10. DDCP shall have ability to interface and communicate with central BAS through a dedicated network. DDCP shall be fully operable from and have all points and functions available to centrally alarm at any master DDCP or PC workstation connected to BAS network.
- B. DDCP Operator's Interface:
 - 1. Provide communications port to connect display device for operator access to all information and all operating system functions except database reports and graphics functions in each mechanical room.
 - 2. Display keyboards to be alphanumeric with special dedicated keys for functions such as manual-auto, test, function, value, and enter.
 - 3. Keyboard/display units shall be able to display analog variables, binary conditions, point values and condition, and other information required for analysis and adjustment.
 - 4. Provide minimum of one permanent panel mounted keyboard and display for each mechanical equipment room. If manufacturer does not offer dedicated panel mounted keyboard and display unit, provide portable hand held keyboard and display unit. If manufacturer does not offer dedicated hand held keyboard and display unit, provide battery powered portable PC unit with proper software and hardware to interface with local DDCP.

2.05 DIRECT DIGITAL CONTROL SOFTWARE

- A. DDCP control strategies shall be Owner definable from operator terminals or workstations.
- B. Software functions and algorithms shall be sufficient to enable implementation of control sequences as specified and able to maintain continuous control as intended.
- C. Control functions shall include both mathematical and logical operators. Control algorithms shall include proportional, integral and derivative control (PID). Adaptive (self-tuning) PID loop parameters, if offered by DDCP manufacturer, shall not be used unless adaptive limits are used to adjust limit values based on system status; or written request is submitted and approved by Engineer.

- D. Allow operator to assign unique identifiers of their choice to each connected point. Identifiers must have at least 8 alpha/numeric characters. All reference to these points in programs, reports and command messages shall be by these identifiers.
- E. Provide access control (user defined passwords) for system operation. There shall be minimum of 3 access levels. First level shall allow system monitoring only. Second level shall allow monitoring and setpoint, and scheduling revision. Third level shall allow modification of control algorithms. System shall return to secured (monitoring only) mode after 5 minutes of inactive operation.
- F. Each DDCP shall contain self-diagnostics that continuously monitor proper operation of panel.
- G. If microprocessor malfunctions, control loop outputs shall continue to function using last value received from microprocessor.

2.06 NETWORK HARDWARE

- A. Provide network interface hardware for each device connected to network. Each device shall have sufficient performance as not to degrade processing speed specified.
- B. Provide network cabling with sufficient performance as not to degrade communication speed specified. Cabling shall be compatible with proposed system.
- C. Provide other network support devices that are required for proper operation of network, such as file servers, signal repeaters, network hubs, etc.

2.07 CONTROL VALVES

- A. General:
 - 1. If control valves are not scheduled, refer to Part 1 of this Section for sizing criteria.
 - 2. Use 2 or 3 port normally open globe type control valves with equal percentage contoured throttling plugs for water applications and linear contoured throttling plugs for steam applications, unless otherwise noted.
 - 3. Butterfly valves may be used for water system control valves 130 mm(5") and larger provided that valves meet pressure and temperature requirements. High performance butterfly valves shall be used for modulating applications. General-purpose butterfly valves may be used for two-position control.
- B. Globe Valves:
 - Valves shall be bronze or brass body, threaded, 1035 kPa(150 psi) rating for 50 mm(2") and smaller, iron body bronze mounted, flanged, 860 kPa(125 psig) rating for 65 mm(2-1/2") and larger.
 - 2. Valves shall have stainless steel stems, spring-loaded Teflon packing, replaceable seats and discs.
- C. General Purpose Butterfly Valves:
 - 1. Refer to Section 23 2118 Valves. Refer to Damper and Valve Actuators in this Section for valve actuators.
- D. Solenoid Valves:
 - 1. Brass or bronze body. Valves shall be selected to match required temperatures and pressure, and shall have materials, that are compatible with, intended working fluid.
 - 2. All line voltage actuators shall be Class "H" (high temperature) and listed by UL or CSA.

2.08 CONTROL DAMPERS

- A. General:
 - 1. If control damper sizes are not shown or scheduled, refer to Part 1 of this Section for sizing criteria.
 - 2. Unless otherwise indicated, modulating control dampers shall be opposed blade or parallel blade type and two position (open/close) dampers shall be parallel blade type.
 - 3. All blade linkage hardware shall have corrosion-resistant finish and be readily accessible for maintenance.
- B. Standard Modulating and Two Position Dampers:

- Damper frames shall be minimum of 16 ga galvanized steel or 14 ga extruded aluminum. Blades shall be minimum of 16 ga galvanized steel or 14 ga aluminum. Blades shall have maximum blade width of 8" with steel trunnions mounted in bronze sleeve, nylon or ball bearings.
- 2. Furnish dampers with blade seal and stainless steel side seals. Dampers and seals shall be suitable for maximum system temperature, pressure differential and approach velocity, but not less than temperature range of -40 to 200°F, pressure differential of 6" WG, and approach velocity of 4000 fpm.
- 3. Dampers when closed shall be guaranteed by control manufacturer not to leak air in excess of 100 cfm at 4" WG static pressure for 48" x 48" damper size (6.25 cfm per ft²).
- C. Standard Modulating and Two Position Dampers:
 - Damper frames shall be minimum of 16 ga galvanized steel or 14 ga extruded aluminum. Blades shall be minimum of 16 ga galvanized steel or 14 ga aluminum. Blades shall have maximum blade width of 8" with steel trunnions mounted in bronze sleeve, nylon or ball bearings.
 - 2. Furnish dampers with blade seal and side seals. Dampers and seals shall be suitable for maximum temperature, pressure differential and approach velocity to be encountered in the system, but not less than temperature range of -40 to 200°F, pressure differential of 4" WG, and approach velocity of 2500 fpm.
 - 3. Dampers when closed shall be guaranteed by control manufacturer not to leak air in excess of 176 cfm at 4" WG static pressure for 48" x 48" damper size (11 cfm per ft²).
- D. Smoke Dampers:
 - Dampers to be leakage rated at no higher than Leakage Class I (4 cfm/ft² at 1" WG and 8 cfm/ft² at 4" WG) under UL 555S at temperature category 250°F. Furnish dampers with factory-mounted, caulked sleeve and pneumatic operatoractuator assemblies. Damper shall have 16ga frame with air foil-shaped blades, rated to minimum 4" WG in closed position and to 2000 fpm in open position.
 - Pneumatic actuator <u>Actuator assemblies</u> to be installed outside airstream, linked to damper for fail (normally) closed operation. <u>suitable for use on 20-psig air system, and be UL</u> <u>Listed and labeled for application</u>. Actuator to be capable of closing damper at pressures encountered in system.
 - <u>3.</u> Size smoke dampers as close as possible to duct size, but in no case is damper size to be less than duct size.
 - 4. Actuators shall be 120 V electric powered with auxiliary switch built in for position indication.
 - 5. Furnish damper test switch,
 - 3.6. Smoke detector required at each damper will be provided by Electrical Contractor.

2.09 DAMPER AND VALVE ACTUATORS

- A. Analog Electronic:
 - 1. Actuators shall be hydraulic or electric motor/gear drives that respond proportionally to analog voltage or current input. Stroke time for major equipment shall be 90 seconds or less for 90□ rotation. Stroke time for terminal equipment shall be compatible with its associated local controller, but no more than 6 minutes.
 - 2. Provide spring return feature for fail open or closed positions as required by control sequence for critical applications such as outside, return, or exhaust dampers, heating and cooling coils on major air handling units, humidifiers, heat exchangers, and flow control for major equipment items such as chillers, cooling towers, boilers, etc.
 - 3. Provide position feedback potentiometers connected to controller for closed loop control on major equipment analog control loops.
 - 4. Actuators for terminal heating/cooling equipment do not require spring return feature.
- B. Discrete Two-Position Electric:

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- 1. Actuators shall be hydraulic or electric motor/gear drives for two-position control. Stroke time shall be 90 seconds or less for 90° rotation.
- 2. Provide spring return feature for fail open or closed positions as required by control sequence.

2.010 GENERAL INSTRUMENTATION

- A. General:
 - 1. No devices containing mercury will be allowed under this specification.
- B. Pressure Gauges:
 - 1. Refer to Section 23 2120 Piping Specialties.
- C. Thermometers (Dial-Type):
 - 1. Refer to Section 23 2120 Piping Specialties.
- D. Analog Electronic Instrument Indicators:
 - 1. Electronic indicators, used for displaying sensor and/or output values as measured by current or voltage, shall be panel mount type and at least 2" square. Output may be analog needle type or digital with 1/2" high LED or backlit LCD displays.
 - 2. Electronic indicators shall be marked in appropriate units (Degrees, psi, %RH, gpm, cfm, etc.) and with appropriate range of values. Panel mounted indicators shall have minimum accuracy of 1% of scale range. Digital units shall be scaled to show 3 digits plus 1 decimal point.

2.011 DISCRETE ELECTRIC INSTRUMENTATION

- A. General:
 - 1. Electrical devices, switches, and relays shall be UL listed and of type meeting current and voltage characteristics of the project. Terminal connections shall be made at terminal blocks inside of NEMA 1 enclosures unless otherwise specified. Outdoor units shall be NEMA 4 with concealed adjustment.
 - 2. Ratings of normally open and closed contacts shall be adequate for applied load (Minimum 5 amps at 240 V).
 - 3. Accuracy of devices shall be ± 1% of scale with adjustable offset unless otherwise specified.
- B. Temperature Switches (Electric Thermostats):
 - 1. Line voltage or low voltage type suitable for application with adjustable setpoint and setpoint indication.
 - 2. Low voltage type to have heat anticipation.
 - 3. Thermostats with remote sensing bulb shall have liquid filled sensing element and exposed setpoint adjustment.
 - 4. Wall mounted space thermostat enclosure shall have concealed sensing element and exposed setpoint adjustment.
 - 5. Unless otherwise stated, space thermostat covers shall be brushed aluminum or brushed nickel.
 - 6. Manufacturer's standard plastic covers may be used in lieu of metal covers.
- C. Temperature Low Limit Switches (Freezestats):
 - 1. Electric 2-position type with temperature sensing element and manual reset. Controls shall be capable of opening circuit if any one-foot length of sensing element is subject to temperature below setting.
 - 2. Sensing element shall not be less than one lineal foot per square foot of coil surface areas. Unless otherwise indicated, calibrate temperature switch setpoint to 38°F.
- D. Relays:
 - 1. Equal to IDEC type RH2B-U, miniature 8 blade pilot relay with DPDT silver cadmium oxide contacts rated at 15A, 30 VDC, or 120 VAC. Coil shall match control circuit characteristics.

b.

DDC outputs shall be 24 VDC with maximum current burden of 50 milliamps. Rectangular base socket mount with blade type plug-in terminals and polycarbonate dust cover.

- 2. Provide DIN rail mountable (Snap type) mounting sockets equal to IDEC SH2B-05.
- E. Pressure Differential Switches:
 - 1. Adjustable set point, differential pressure type. Select switches for accuracy, ranges (20 to 80% of operating range) and dead-band to match process conditions, electrical requirements and to implement intended functions.
 - 2. Pressure differential switches for air systems shall have pressure rating of at least 10" WG.
 - Pressure indicating differential switches for air systems shall be equal to Dwyer Series 3000 photohelic gauge.
 - 4. Pressure differential switches for water systems shall be rated for 1035 kPa(150 psig) unless otherwise noted. Chilled water pressure differential switches shall be provided with totally sealed vapor tight switch enclosure on 300 psi body. Differential pressure switches to have 3-valve manifold for servicing.
 - Max Temperature Rating: 300°F a.
 - ± 1%
- Repeatability: F. Position Switches (End Switches):
 - 1. Provide damper position switches, as required to meet specified sequence. Rotary switches shall be cam action, lever, or proximity type. Provide damper brackets and connecting rods for connecting position switch actuation levers to damper blades or jackshafts.
 - 2. "Tip Switches" or other position switches that contain mercury shall not be used for damper and valve end switch applications.
- G. Current Switches Constant Load, Constant Speed:
 - 1. Manufacturers: Veris Industries, N-K Technologies, Absolute Process Instruments, Kele & Associates, R-K Electronics or approved equal
 - These shall be induction type sensors clamped over single-phase conductor of AC electrical power and shall be solid-state sensors with adjustable threshold and normally open contacts. Each current switch shall be selected for proper operating range of current. Solid state relay or relay contacts
 - a. Output:

C.

Trip Setpoint: b.

- Adjustable by multi-turn potentiometer 0 to 55°C (32 to 131°F)
- Response Time: d.
 - < 0.5 second
- H. Current Switches Variable Load, Variable Speed

Operating Temperature:

- 1. Manufacturers: Veris Industries, N-K Technologies or approved equal
- 2. These shall be induction type sensors clamped over single-phase conductor of AC electrical power and shall consist of solid-state sensors with self-calibrating threshold and normally open contacts. Each current switch shall be selected for proper operating range of current.
 - a. Output:
 - Trip Setpoint: b.
 - C. Operating Temperature:
- Solid state relay or relay contacts Self-calibrating through microprocessor 0 to 55°C (32 to 131°F) < 0.5 seconds
- Response Time: d.
- I. Mechanical Room and Local Control Panel Alarm Horns:
 - 1. 24V alarm horn suitable for panel mounting.
- J. Indicator Lights:
 - 1. 1/4" minimum size. Use green for normal, yellow for warning (low/high values), and red for alarm or fail (low-low or high-high conditions). AC or DC type with voltage matched to control circuit without transformers.

2.012 PNEUMATIC INSTRUMENTATION

A. Fan Inlet Airflow Traverse Probe:

- 1. Air Monitor Corporation, Tek-Air, Ultratech or approved equal.
- 2. These shall be averaging differential pressure type flow elements mounted in inlet cone of fan capable of continuously measuring air volume of fan.
- 3. Inlet flow element shall consist of:
 - a. Sensing tube with two internal chambers. One shall sense upstream pressure (velocity pressure) and one shall sense downstream pressure (static pressure).
 - b. These chambers shall have ports of quantity and size to accurately sense flow rate in fan inlet size into which these are specified to be installed.
 - c. Sensing tube shall have form so shaped as to minimize measurement inaccuracies.
- 4. Sensing assemblies shall be provided with suitable supports to prevent damage to these assemblies at maximum flow-rate.

a.	Accuracy:	Error < ± 3.0% of actual flow
b.	Materials:	Standard extruded aluminum with anodized
		finish. Optional 316 stainless steel, PVC, Kynar
		and other materials.
C.	Mounting Hardware:	Galvanized Steel
d.	Approved Fan Inlet Installations:	Centrifugal Fan
		Plug Fan
		Ducted Vane Axial Fan
		Vane Axial Fan with Bellmouth

- B. Single-Probe Air System Static Sensing Elements:
 - 1. Sensors to be similar to Dwyer Model A-301 or Tek-Air Model T-SPP7620, with angled tips and 1/4" metal tubing connections.
- C. Differential Air Pressure Indicator:
 - Dwyer model 2000 Series magnehelic gauge for surface or panel mounting. Four inch dial readout, die cast aluminum housing. Case and aluminum parts Iridite-dipped. Exterior finish to be baked dark grey hammerloid. Hi/lo 1/8" pressure taps. Provide adapters to match tubing type.
 - a. Accuracy:
 - b. Ambient Temperature Range:
 - c. Rated Total Pressure:
 - d. Range:

± 2% of full scale.
20 to 140°F.
-20" Hg to 15 psig.
0-2 times normal setpoint. (Use 0-0.25" WG for building and space pressure indication.)

2.013 ANALOG ELECTRONIC INSTRUMENTATION

- A. Space Temperature Sensors:
 - 1. Sensors shall be nickel or platinum RTD type, with the following minimum performance:
 - a. Temperature Coefficient of Resistivity (TCR): .00385 ohm/ohm/°C

b. c.	Accuracy: Accuracy:	± (0.30°C(.54°F) + (0.005 X T) (Class B) ± (0.15°C(.27°F) + (0.005 X T) (Class A)
d.	Conformance:	T = Temperature of interest DIN-IEC 751
e.	Operating Range:	-50 to 500°F
		0 to 99% rh

- Thermistors or nickel RTD's will be acceptable in lieu of platinum RTD provided thermistor carries 5 year guarantee that device will maintain its accuracy within tolerance of ± 0.36°F between 32°F and 150°F, and 0.5°F between -20°F and 212°F.
- 3. Unless otherwise stated, space sensor cover shall be brushed aluminum or brushed nickel.
- 4. Manufacturer's standard plastic covers may be used in lieu of metal covers.
- 5. Provide visible setpoint, setpoint adjustment, and space temperature indication.
- B. Duct Mounted or Insertion Temperature Sensors:
 - 1. Nickel or platinum RTD type, with the following minimum performance:

- .00385 ohm/ohm/°C Temperature Coefficient: a.
- b. Accuracy:

 $\pm (0.30^{\circ}C(.54^{\circ}F) + (0.005 \text{ X T}) \text{ (Class B)}$ ± (0.15°C(.27°F) + (0.005 X T) (Class A) C. Accuracy:

> T = Temperature of interest DIN-IEC 751

d. Conformance: е

Operating Range: -50 to 170°F 0 to 99% rh

- 2. Install insertion sensors in stainless steel probes or wells.
- 3. Outside air sensors shall be weatherproof of noncorrosive construction and protected with solar shield. Mount outside air sensors on north side of building or in area intake wells for air handling systems to avoid thermal effects from direct sunlight.
- 4. Sensors mounted in air streams, such as air handling units, supply ducts, exhaust ducts or return ducts, shall be averaging type. Mount averaging sensor across duct area in a "Z" pattern using mounting clips specific for averaging temperature sensor probes.
- 5. Thermistors or nickel RTD will be acceptable in lieu of platinum RTD provided thermistor carries 5 year guarantee that the device will maintain its accuracy within a tolerance of \pm 0.36°F between 32°F and 150°F, and 0.5°F between -20°F and 212°F.
- C. Space Humidity Sensors/Transmitters:
 - 1. General Eastern, Automation Components Inc., Veris Industries, Minco (Kele & Associates, Rotronic or Vaisala.
 - 2. Space humidity sensors shall be wall mount type with brushed aluminum or brushed nickel cover to match room thermostats and/or temperature sensors.
 - 3. Sensing element shall be resistive bulk polymer, or thin film capacitive type. Sensor/transmitter shall have the following minimum performance.

a.	Accuracy:	± 2% rh at 25°C over 20-95% rh including hysteresis, linearity and repeatability
b.	Temperature Effect:	Less than 0.06% per °F
C.	Sensitivity:	0.1% rh
d.	Repeatability:	0.5% rh
e.	Hysteresis:	Less than 1%
f.	Long Term Stability:	Less than 1% rh drift per year
g.	Adjustment:	± 20% rh zero, non-interactive
		± 10% rh span, non-interactive
h.	Operating Range:	0-99% rh, non-condensing, sensor
		0-95% rh, non-condensing, electronics
i.	Output:	4-20 mA, 0-100% linear, proportional
j.	Power:	12-36 VDC

- D. Duct Mounted Humidity Sensors/Transmitters:
 - 1. Manufacturers: General Eastern, Automation Components Inc., Veris Industries, Minco (Kele & Associates), Rotronic or Vaisala
 - 2. Probe type, temperature compensated, resistive bulk polymer or thin film capacitive type. Sensor/transmitter shall have the following minimum performance.
 - ± 2% rh at 25°C over 20-95% rh including hysteresis, a. Accuracy: linearity and repeatability b. Temperature Effect: Less than 0.06% per °F c. Sensitivity: 0.1% rh d. Repeatability: 0.5% rh e. Hysteresis: Less than 1% f. Long Term Stability: Less than 1% drift per year g. Adjustment: □ 20% rh zero, non-interactive □ 10% rh span, non-interactive

h. Operating Range: 0-99% rh, non-condensing, sensor

0-95% rh, non-condensing, electronics

i. Output:

- 4-20 mA, 0-100% linear, proportional 12-36 VDC
- j. Power:
- E. Ducted Air System Static Pressure and Differential Pressure (Velocity) Transmitters:
 - 1. Manufacturers: GE Modus, Setra, Ashcroft XLDP or approved equal
 - 2. Provide transducers/transmitters to convert velocity pressure differential or static duct pressure relative to sensor location into electronic signal.
 - 3. Unit shall be capable of transmitting linear 4 to 20 mA DC output signal proportional to the differential (total minus static or static minus ambient) pressure input signals with the following minimum performance and application criteria:
 - a. Span: Not greater than twice duct static or velocity pressure at maximum flow rate, nor more than 16 times velocity pressure at minimum flow rate.
 - b. Accuracy: $\pm 1.0\%$ of span or $\Box 1.0\%$ of full scale
 - c. Dead Band: Less than 0.5% of output
 - d.Hysteresis:Within 0.5% of span or within 0.5% of full scalee.Linearity:Within 1.0% of span or within 0.5% of full scale
 - f. Repeatability: Within 0.5% of output
 - g. Response: Less than 1 second for full span input
 - 4. Return and exhaust air system static pressure transducers/transmitters shall be furnished with protective integral air filters on pressure sensing lines from the static pressure sensing stations, and static air probes to prevent migration of moisture or particulate matter into transducers. If inputs to pressure transducers/transmitters are dead-ended, integral air filters are not required. Supply air system sensors do not require integral air filters.
- F. Insertion Type Turbine Flowmeter/Transmitter:
 - 1. Manufacturers: Onicon, EMCO, FTI Flow Technology, or approved equal
 - 2. Provide turbine type flowmeter with hot tap type insertion assembly and microprocessor based transmitter. Selected span shall be not greater than twice design flow range. Select units for 10:1 turndown.
 - Hot tap assembly shall be insertion/extraction type with depth gauge and shutoff valve. Select turbine and body for intended service and pressure/temperature range. Transmitter shall have linear output of 4- 20 mA with nominal 24 VDC power requirement. Enclosure shall be NEMA 4.
 - a. Accuracy: ± 0.5% in linear range
 - b. Repeatability: 0.25% in linear range
 - c. Construction Materials:
 - 1) Non-wetted Parts: Aluminum
 - 2) Wetted Parts: 316 Stainless Steel
 - 3) Turbine: 17-4 pH Stainless Steel with tungsten carbide bearings
 - 4. Transmitter shall be integral mounted on flow meter.
 - 5. Provide remote mounted indicator/transmitter. Indicator shall be ½" LCD or back lit LED type.
 - 6. Refer to Section 25 3003 Process Instrumentation Device Specifications.
- G. Electronic Controllers:
 - 1. Provide dedicated function type controllers with electronic analog and/or discrete electric type inputs and electronic analog and/or discrete electric type inputs, capable of performing sequences specified. Analog loop controllers shall have PID programs. Units shall have face-plate with adjustable setpoints, calibration, offset, gain factors, and visual display of all parameters.

PART 3 - EXECUTION

3.01 GENERAL

- A. Install control equipment, wiring and air piping in neat and workmanlike manner to satisfaction of Architect and/or Engineer, and in accordance with manufacturer's recommendations. Maintain clearances, straight length distances, etc. required for proper operation of each device. Mark and detail exact location of inline devices, wells, and taps to be installed by Mechanical Contractor on Coordination Drawings.
- B. Coordinate timely delivery of materials and supervise activities of other trade contractors to install inline devices such as immersion wells, pressure tappings, any associated shut-off valves, flow switches, level switches, flow meters, air flow stations, and other such items furnished by Control Contractor that are to be installed by Mechanical Contractor.
- C. Install control devices in accessible location.
- D. Mount motor control devices within 5 ft of disconnect switch, or starting device furnished by Electrical Contractor unless noted otherwise. Maintain required NEC clearances.

3.02 CONTROL WIRING

- A. Provide all electrical wiring required for complete functional control systems, including power circuit to control panels, both line and low voltage, in accordance with all applicable local codes, and the latest version of National Electric Code and NFPA when applicable.
 - 1. Voltage drops for all low voltage circuits shall be calculated prior to installing low voltage circuits. Voltage drop calculations shall be made available to Engineer on demand.
- B. Control panels serving equipment fed by emergency power shall also be served by emergency power. Equipment fed by emergency power is so indicated on mechanical equipment schedules and electrical motor schedules.
- C. Control panels shall be powered by local UPS (Uninterruptible Power Supply) to ensure continued control of equipment powered by site standby power sources when primary power source is lost. Devices such as Operator Workstations, Floor Level and Building Level Controllers and other critical devices shall be provided with UPS power.
- D. Power wiring to control compressors and dryers will be provided by Electrical Contractor. Provide field mounted starters to Electrical Contractor for installation and supervise installation.
- E. Install control wiring in raceway system per Division 26 Electrical, unless otherwise noted.
- F. BAS Network Communication Cable:
 - 1. Run communication cable in separate raceways or in cable trays with proper clearances.
 - 2. Install special cable connectors in accordance with manufacturer's recommendations.
 - 3. BAS network communication cable shall not be spliced.

a.

3.03 LOCAL CONTROL PANELS

- A. Provide local control panel for each system where more than one control device requires field mounting (air handling units, exhaust fans, miscellaneous control systems including pump controls, heat exchanger controls, etc.). Single devices may be exposed mounted on piping, wall or ductwork. Install local control panel where indicated on drawings or suitable location adjacent to system served.
- B. Mount panel on wall with suitable brackets or on self-supporting stand. Mount top of panel no higher than 6 ft above floor. Install panels so front cover door can swing full open without interference.
- C. Label all local control panels with its respective unique ID number per Section 20 0553 Mechanical Systems Identification.

3.04 ADJUSTMENT AND COMPLETION CHECK LIST

A. After completion of installation, follow check standard list procedures defined by instrument vendors to adjust and calibrate all thermostats, control valves, control actuators, controllers, sensors, and other equipment provided in this Contract.

3.05 OWNER TRAINING

A. Provide minimum of 8 hrs of on-site training to Owner's representatives. Conduct training sessions during normal business hours after system start-up and acceptance by Owner. Scheduling of training session(s) will be established by Owner.

3.06 OVERALL BAS ARCHITECTURE

- A. Provide hardware/software to update database in less than 1 second for fast-acting control loops such as pressure control, air or water volume control, and air handling unit temperature control, or 10 seconds or less for all other control loops.
- B. Control loop software algorithm for each analog control loop shall reside on the same controller as all inputs and outputs required for that specific control loop.
- C. Networks that operate via polled response or other types of protocols that rely on central processors, file servers, or other such devices to maintain or manage peer-to-peer communications shall have redundant components to maintain network in the event of failure at central device. Provide automatic changeover to redundant device upon failure of any central type processor without operator intervention.
- D. Network shall be multi-drop digital transmission network. Network shall provide communication link between operator's workstation and all remote DDCP and field panels.
- E. Each multi-drop trunk shall be within manufacturer's allowable line lengths without signal degradation. All multi-drop trunks shall be interfaced to system via standard EIA or other industry recognized interfaces so that single failure does not disrupt or halt network.
- F. Communications between DDCP's and operator's workstations shall allow multiple users to access and use system simultaneously with no loss of system performance.
- G. Provide levels of connected networks to connect all DDCP, including terminal DDCP. Communications to terminal devices shall be similar to capabilities and functions of other DDCP and shall be transparent to operator.
- H. Number of nodes (devices connected) on any one network shall not exceed 50 % of maximum node capacity published by equipment manufacturer. Provide additional hardware, DDCP, network controllers, etc.) to meet this requirement.
- I. Alarm reports from DDCP shall not be impeded by use of either remote or local monitor, nor control stations on network either in access mode or programming mode.
- J. Provide telephone modem for remote access to system from remote operator's workstation. Coordinate telephone communications with Owner for modem connection point.

3.07 DIRECT DIGITAL CONTROL PANELS

- A. DDC Panel Usage:
 - 1. Select DDCP to provide speed of response required for each control loop type.
 - 2. Each DDCP shall have sufficient I/O capacity to perform specified control sequences and/or included points listed in any point schedules. If DDCP does not have sufficient capacity, provide additional panels to achieve required point count.
 - 3. Analog and critical safety discrete control loops shall have inputs and outputs into/from the same DDCP. Analog control loops for major equipment (chilled water, hot water, convertors, air handling units, etc.) shall have PID control.
 - 4. For valves and dampers within 100 ft of its DDCP, mount current to pneumatic (I/P's) convertors within DDCP or in adjacent panel. Otherwise mount I/P convertors at valve or damper. Provide pressure gauges on main air, and all control output signals.
- B. Cabinets:
 - 1. Provide local control cabinets for all DDCP. DDCP cabinets may be used directly if enclosures are rated for NEMA 1. All cabinets shall utilize one masterkey. Provide 2 spare key sets to Owner.

3.08 SOFTWARE

A. Software from panels shall be permanently stored on CD ROM.

B. Provide the latest version of all standard software, including, operating system and control software. Include any software updates for period of 1 yr coinciding with warranty period. No beta released software shall be used.

3.09 INITIAL PROGRAMMING

- A. Control Contractor shall provide initial programming of all controllers to accomplish sequences specified.
- B. Provide back-up documentation per software manual submittals for all programs in both written and magnetic media formats.
- C. Provide programming of menus to assist new users in accessing screen displays of each point group. Point groups (user definable) shall be initially arranged by DDCP for major equipment and by floor and area for terminal devices. Terminal devices shall also be grouped by air handling system where applicable.
- D. Program historical file for run-times and number of start/stops of all motor driven equipment and filters.
- E. Program maintenance alarms based on run-times and number of start/stops for all motor driven equipment.
- F. Program alarms using the following levels:
 - 1. Level 1 Maintenance alarm, requiring attention within one to 2 days. (Examples; 2-3°F temperature variance from setpoint, 15-25% relative humidity variance, etc.)
 - Level 2 Low Level Alarm, requiring attention within 8 hours, preferably during the same shift. (Examples; 4°F or more variance from setpoint, 30% relative humidity or more variance from setpoints, etc., excess start/stops per day, etc.)
 - 3. Level 3 Critical Alarm, requiring immediate attention. (Examples; non-operation of primary equipment, H-O-A overrides.)
 - 4. Level 1 and 2 alarms shall not interrupt current user operation, but shall be logged into alarm summary file indicating status, acknowledgment, and by whom. Level 3 alarms shall interrupt user via audible and/or flashing warning until acknowledged without losing any work in progress. When alarms are acknowledged, the program shall display point group or appropriate graphic display. Level 3 alarms shall also be logged into alarm summary file similar to Level 1 and 2 alarms.

3.010 POINT LIST

- A. Provide all points required to implement control sequences specified, whether or not they are listed in schedules. In addition to control points, provide additional monitoring points listed in point schedules or defined in Control Sequences.
- B. All outputs, whether sequenced or not, shall have separate programmable hardware outputs. For air handling units, minimum outside air, maximum (economizer) outside air, return, relief air, smoke dampers, heating coil valves, cooling coil valves, humidifier valves, etc., shall each have separate output.

3.011 CONTROL VALVES

- A. Furnish control valves as shown on drawings and/or as required to perform control sequence specified.
- B. Control valves furnished by Control Contractor will be installed by Mechanical Contractor under coordinating control and supervision of Control Contractor.
- C. Increaser and decreaser fittings required to facilitate valves will be provided by, Mechanical Contractor.

3.012 CONTROL DAMPERS

- A. Furnish control dampers as shown on drawings and/or as required to perform control sequence specified except those furnished with other equipment.
- B. Control dampers furnished by Control Contractor will be installed by Mechanical Contractor under coordinating control and supervision of Control Contractor.

C. Blank-off plates or transitions required to facilitate dampers will be provided by Mechanical Contractor.

3.013 ACTUATORS AND PILOT POSITIONERS

- A. Provide actuator for each automatic damper or valve with sufficient capacity to operate damper or valve under all conditions. Select actuators to provide tight shut off against maximum system temperatures and pressure encountered. Each actuator shall be full-proportioning or two-position type as required or specified, and shall be provided with spring-return for fail open or fail closed position for fire, freeze, occupant safety, equipment protection, moisture, heating or cooling protection on power interruption as indicated and/or as required. Smoke dampers and steam valves serving pressure rated heat exchangers or convertors shall fail closed.
- B. Where sequencing of valves or dampers is required for pneumatic systems, such sequencing shall be accomplished by spring ranges adequate for applications to avoid overlap of operation and simultaneous use of heating and cooling.
- C. Provide pilot positioners for pneumatic modulating valves and dampers for major equipment such as air handling unit coils, humidifiers, heat exchangers, convertors, major water system temperature controls, etc. Pilot positioners are not required for terminal heating/cooling equipment or booster humidifiers.
- D. Provide pilot positioners for all sequenced devices, and devices that require adjustable operating speeds.
- E. Provide pilot positioners for pneumatic modulating outside and return air dampers and fan volume control devices such as fan inlet dampers where used.
- F. Provide pilot positioners for pneumatic modulating valve and damper operators when torque required by controlled devices exceeds 50% of torque capacity of operator.
- G.B. Valve and damper operating speeds shall be selected or adjusted so operators will remain in step with controller without hunting regardless of load variations. Operators acting in sequence with other operators shall have adjustment of control sequence as required by operating characteristics of system.
- H.C. Provide speed control valves for On/Off actuators for adjustment of actuator speed to prevent water hammer or excessive stress on large valves and dampers.
- H.D. Provide proper linkage and brackets for mounting and attaching actuators to devices. Design mounting and/or support to provide no more than 5% hysteresis in either direction (actual movement of valve steam/damper shaft/ideal movement) due to deflection of actuator mounting.
- J.E. Calibrate position feedback potentiometers where specified, with range and gain factors as required for proper operation per manufacturer's recommendations.
- K.F. Integral actuator end switches or feedback potentiometers shall not be used. Provide separate end switches/feedback potentiometers that provide actual damper/valve position.
 - Integral actuator end switches or feedback potentiometers can be used if damper or valve shaft is keyed or directly affixed to the actuator such that the shaft cannot slip and provide false position. U-clamp type actuator mounting always requires separate end switches/feedback potentiometers.

3.014 GENERAL INSTRUMENTATION

- A. Pressure Gauges (Pressure Indicators):
 - 1. Install pressure gauge for indication of supply and control pressure in pneumatic systems at output of controllers, I/P transducers, electric air solenoid valves and pressure switches, and other points where visible indication of air pressure is required for operation and maintenance purposes.
 - 2. Provide test port for quick connection of test gauges at valve, damper motor and other actuator branch lines.
 - 3. Pressure gauge tappings in piping will be installed by Mechanical Contractor.
- B. Thermometers (Temperature Indicators):

- 1. Install thermometers at each point of temperature transmission and control except those indicated at local control panels. Install thermometers to permit easy reading from floor or operating platform (within 3 ft of line of sight). Provide remote bulb thermometers with readout indicators mounted within 3 ft of line of sight whenever sensing point is more than 3 ft from line of sight.
- 2. Thermometer wells in piping will be installed by Mechanical Contractor.

3.015 LOCAL CONTROL PANELS

- A. Install remote mounted devices, controllers, I/O terminal blocks, power supplies, etc. inside of local control panels.
- B. Locate panels as shown on drawings.
- C. Locate panels adjacent to equipment served with a minimum of 3 ft clearance in front of the door. Provide sufficient clearances to allow full door swing and full access to all internal components. Submit proposed panel locations with shop drawings.
- D. Mount top of panel between 5 and 6 ft above floor so gauges and indicators are at eye level.
- E. General Instrumentation at Local Control Panels:
 - 1. Provide record control drawings of systems served by each local panel, in location adjacent to or inside of panel cover. Provide protective cover for drawing.
 - 2. Provide indications and adjustments at each panel as follows:

Point	Item
1	Hot water in degrees F
2	Hot water out degrees F
3	Discharge temperature degrees F
4	Mixed air temperature, degrees F
5	Return air temperature, degrees F
6	Return air relative humidity %
7	Outdoor temperature, degrees F
8	Filter pressure drop, inches WC (Provide static pressure sensor across filter banks.)
9	Supply duct static pressure, inches WC for system air volume control.

Station Description

Key: a = Adjustment

i = Indication

- b = Adjustment and indication
- 3. Adjustment and indication shall be on front panels.
- 4. Adjustment shall be concealed inside panels.
- 5. Indication shall be on front panels.

		<u>Point</u>									
	1	2	3	4	5	6	7	8	9	10	11
AHU-1	i	i	-	-	b	i	i	b	i	i	i
[XXX]											
[XXX]											

3.016 DISCRETE AND ANALOG INSTRUMENTATION

- A. Wall Mounted Space Sensors:
 - 1. Install space thermostats/sensors where indicated, as required to perform specified controls, or directed to meet job site conditions.
 - 2. Mount thermostats/sensors 5 ft above floor unless otherwise indicated.

- 3. Mount space thermostats/sensors with accessible setpoint adjustment or temperature reading (thermometer or digital temperature readout) at 4 ft above floor meeting ADA requirements.
- 4. Any room thermostats/sensors mounted on exterior walls shall be mounted on thermally insulated sub-base.
- 5. Relocate room thermostats/sensors if required due to draft, interferences with cabinets, chalkboards, etc., or improper sensing.
- 6. Mount room thermostats/sensors in corridors, stairways and public toilets 7 ft above floor.
- 7. Room thermostats/sensors in gymnasium, locker rooms, corridor, stairways, vestibules and toilets shall be aspirating type.
- 8. Room thermostats/sensors in gymnasium, locker rooms and [XXX] shall be protected by heavy-duty cast and die formed guard.
- B. Low Limit Temperature Switches (Freeze Stats):
 - 1. Install low limit controls where indicated on drawings or as specified. Unless otherwise indicated, install sensing element at downstream side of heating coils.
 - 2. Distribute sensing element across entire area of medium being sensed. Install controls at accessible location with suitable mounting brackets and element duct collars where required.
- C. Static Pressure and Air Flow Stations:
 - 1. Furnish static pressure and air flow measuring stations to Mechanical Contractor for installation.
 - 2. Stations shall be installed in strict accordance with manufacturer's published requirements. These stations serve as primary signals for airflow control systems, therefore it shall be responsibility of Control Contractor to verify location and installation to assure that accurate primary signals are obtained.
 - 3. Pressure differential switches shall be piped across the device creating the differential, between fan discharge and fan suction.
- D. Water Flow Meters and Flow Switches:
 - 1. Install flow measuring devices with recommended straight pipe diameters upstream and downstream of elbows, tees, valves, or other fittings, that cause uneven turbulent flow conditions.
 - 2. If no recommendations are given, provide straight pipe equal to 10 pipe diameters upstream and 5 pipe diameters downstream of flow measuring device.
- E. Sensor Wells:
 - Mount sensor wells as shown on drawings as required by other contract documents. Wells mounted in pipe 3" and larger may be installed in horizontal or vertical lines provided element is always in flow (for condensate and other gravity return lines, install in bottom of pipe). Wells mounted in pipe 2-1/2" and smaller shall be installed at elbow tee fittings with well pointed upstream. Minimum of 2" pipe size for elbow tee installation.
- F. Transmitters and Indicators:
 - Locate transmitters at sensing device or within 100 ft for remote mounted transmitters. For hot systems (150°F and higher) mount electronics on side of pipe or remotely mount. For indicating type instruments, locate indicating element with 6 ft of floor with readout easily visible from floor level. Provide remote readouts if necessary.

END OF SECTION

SECTION 237323 FACTORY FABRICATED CUSTOM AIR HANDLING UNITS

PART 1 - GENERAL

1.01 RELATED WORK

- A. Section 20 0513 Motors
- B. Section 20 0514 Variable Frequency Drive (VFD) System
- C. Section 20 0529 Mechanical Supporting Devices
- D. Section 20 0700 Mechanical Systems Insulation
- E. Section 23 0550 Vibration Isolation
- F. Section 23 0901A Control Systems
- G. Section 23 2116 Pipe and Pipe Fittings
- H. Section 23 2118 Valves
- I. Section 23 2120 Piping Specialties
- J. Section 23 3314 Ductwork Specialties
- K. Section 23 3400 Fans
- L. Section 23 4114 Filters
- M. Section 23 7214 Heat Recovery Equipment
- N. Section 23 8216 Coils
- O. Section 26 0519 Low-Voltage Electrical Power Conductors and Cables
- P. Section 26 0533 Raceway and Boxes for Electrical Systems
- Q. Section 26 2726 Wiring Devices
- R. Section 26 2816 Enclosed Switches and Circuit Breakers
- S. Section 26 5000 Lighting

1.02 REFERENCE

A. Work under this Section is subject to requirements of Contract Documents including General Conditions, Supplemental Conditions, and sections under Division 01 General Requirements.

1.03 SUBMITTALS

- A. Shop Drawings for all equipment including, but not limited to, the following:
 - 1. Appropriate identification
 - 2. Complete drawings showing plans and sections including details of construction
 - 3. Overall unit dimensions and individual components and sections dimensions
 - 4. Shipping and operating weight of unit and/or sections
 - 5. Structural design load
 - 6. Details of component support
 - 7. Capacities/ratings
 - 8. Materials of construction
 - 9. Thermal and acoustical performance of wall, roof and floor panels
 - 10. Pressure ratings and leakage ratings
 - 11. Thermal break construction details and performance calculations or test data
 - 12. Each component manufacturer's name, model number and data. (Refer to each component section for submittal requirements.)
 - 13. Air leakage rates and test data
 - 14. Wiring diagrams and terminal points for control panels provided with units
 - 15. Manufacturer's installation instructions
 - 16. Air handling unit manufacturer's local representative and phone number

1.04 DESIGN CRITERIA

A. For housings and floors operating under positive pressure (fan discharge side), maximum allowable deflection shall not exceed 1/200th of any span in any direction at ± 10 " WG.

- B. For housings and floors operating under negative pressure (fan inlet side), maximum allowable deflections shall not exceed 1/200th of any span in any direction at ± 10" WG.
- C. Air handling unit manufacturer shall install all equipment furnished by others and provide all other equipment as specified to result in complete and operational unit. Unit manufacturer shall assume single source responsibility for all air handling unit components and accessories.
- D. Furnish units complete with factory controls, fans, piping, valves, piping specialties, actuators, motors, coils, compressors, refrigerant condensing equipment, energy recovery wheels, drain pans, filter sections, damper sections and interior lighting, meeting configuration and as shown on drawings, specified and scheduled. All unit components shall meet this Section of Specification and all requirements specified in each section and division listed under Related Work. Internal control dampers shall be provided by unit manufacturer. <u>Refer to 23 0901A for control damper requirements.</u>- External control dampers and actuators shall be furnished by Control Contractor and shall be field-installed by Mechanical Contractor.
- E. All materials as applied shall meet NFPA 90A possessing flame spread rating of not over 25 and smoke developed rating of not over 50.
- F. Unless otherwise indicated, galvanized steel shall be G90 according to ASTM A924 (formerly ASTM A525), A653 and ASTM A-90 and aluminum sheet shall be 3003-H14 alloy, conforming ASTM B209.
- G. Each fan and motor combination shall be capable of delivering 110% of air quantity scheduled at scheduled static pressure without operating into motor service factor.
- H. Motor furnished with fan shall not operate into motor service factor in any cases.
- I. Where inlet and outlet ductwork at any fan is changed from that shown on drawings, submit scaled layout of the change and system effect factor calculations, indicating increased static pressure requirement as described in AMCA Publication 201. This Contractor shall be responsible for any motor drive and/or wiring changes required as result of duct configuration changes at fan.
- J. Air handling unit static pressure to take into consideration actual static pressure loss of components furnished within unit.
- K. Wire brush all welds with solvent and wipe clean all bare metal before painting.
- L. Air handling unit shall be constructed for outdoor application and shall be designed for roof mounting on concrete curb provided by GC. For outdoor units, allow for snow and wind loading in accordance with the governing building code when calculating allowable deflections.

1.05 FINAL CLEANING

A. Outside and inside of each air handling unit shall be thoroughly cleaned. Use industrial grade cleaners to remove construction dust, sheet metal mill finish or grease. Unit openings shall then be covered with sheet metal or other proper material until ductwork is connected.

PART 2 - PRODUCTS

2.01 MANUFACTURERS (RTU-1)

A. Annex Air (Basis of Design), Haakon, Temtrol, Climate Craft, Ventrol, Climate Craft with operating characteristics as scheduled and physical dimensions as shown on drawings and/or detailed.

2.02 UNIT BASE

- A. Unit base shall be fabricated from structural steel or fabricated steel.
- B. Weld steel solid at connection points to assure rigidity. Size perimeter steel to allow for rigging and handling.
- C. Locate and size base cross supports to support internal components.
- D. Add lifting lugs to perimeter steel along the longest length of unit or unit module. Incorporate means of attaching cable or chain into each lug.
- E. Lifting lugs shall be removable after placement of equipment.

- F. Base shall be split in maximum size pieces to allow for economical shipment to jobsite and placement within building. Provide bolting structural steel on both sides of split for field joining.
- G. Unit base shall be fully welded G-90 primed and finished with rust inhibiting epoxy paint.

2.03 UNIT FLOOR

- A. Unit floor shall be constructed to meet the maximum allowable deflection, but constructed of no lighter than:
 - 1. 16 ga plate of galvanized steel or 3/16" aluminum plate with diamond-tread.
- B. Floor joints and seams shall be sealed to meet allowable housing leakage rate specified. Use acrylic latex sealant meeting ASTM C834-76 (1981) or polyurethane sealant, ASTM C-920, Type S, Grade NS, Class 25, USDA Approved.
- C. Provide recessed drain pans as integral part of unit floor in cooling coils, pre-heating coils section. Entire floor including base drain pans shall be insulated on underside to have same thermal and acoustical performance specified for unit housing. Insulation shall be supported by minimum 20 ga galvanized steel liner with joints sealed to provide continuous vapor barrier.
 - 1. Drain pans shall be constructed from minimum 16 ga 304 SS sheet with 304 SS drain pipes.
 - 2. Drain pan shall be double sloped; pitched down in direction of air flow and pitched sideways to drain connection.
 - 3. Locate drain connections at lowest point of pan, one on either end. Connections shall extend through perimeter base channel and be continuously welded to insure air-tight seal as well as eliminate requirement for backup wrench during field piping. Provide removable cap on each drain connection.

2.04 UNIT HOUSING

- A. Unit housing shall be constructed of minimum 2" thick double wall panels meeting thermal, acoustical and structural requirements specified.
- B. Panels shall utilize modular panel type construction. Panels may be self-supporting with internal support structure or supported by structural frame work.
- C. Panel joints and seams shall be sealed with proper gasket and caulking to meet allowable housing leakage rate specified.
- D. Outer face of panels shall be constructed of no lighter than 16 ga galvanized steel and solid inner face of panels shall be constructed of no lighter than 20 ga G90 galvanized steel.
- E. Unit casing shall be insulated with minimum 2" thermos-composite foam with R-7 per inch foam insulation. Unit casing will have no exterior condensation at interior AHU temperatures down to 43F while unit exterior conditions are maintained at 95 F dry bulb / 85 F wet bulb.
- F. Use solid inner surface for all sections.
- G. Provide blank-off panels with proper gaskets and sealants to prevent air bypass around equipment such as filters, coils and energy recovery wheels. Blank-off panels shall be constructed of stainless steel no lighter than 16 ga unless otherwise noted. Blank-off panels at cooling coil sections shall be insulated with 3/4" thick insulation similar to AP Armaflex SA Duct Liner. Do not insulate blank-off panels between cooling coils located above drain pans.
- H. Panel Sound Transmission Loss in accordance with ASTM E90 shall equal or exceed the following:

Octave Band Center Frequency (Hz)

120 200 000 1000 2000 1000		125	250	500	1000	2000	4000
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- Transmission Loss (dB) 19 23 33 43 52 57
- I. Entire roof of outdoor units shall be constructed with standing seam water-tight joints and sloped 1/8" per foot.

2.05 ACCESS DOORS

- A. Each unit section shall have minimum 20" x 72" access door, unless otherwise specified or shown differently on drawings. Access doors for filter and coil sections shall be minimum 24" x 72".
- B. Fan section access door shall be sized to allow removal of fan wheel and motor through door, but not smaller than 30" x 72". If access door needs to be wider than 36", removable access panel may be provided.
- C. Access doors and door frames shall have similar thermal break construction as specified under Unit Housing.
- D. Access doors shall be same construction as housing panels.
- E. Access doors shall be guaranteed tight closing through use of seals around entire periphery. Provide neoprene gasket between door frame and housing for air tight seal.
- F. Each access door shall contain 1/4" thick wire glass or double glazed tempered glass window minimum size of 12" x 12" or 12" round. Window shall be double paned with vapor seal construction.
- G. Each access door shall be furnished with corrosion resistant metal hinges or continuous piano hinge and shall have at least 2 stainless steel or aluminum alloy handles operable from either side.
- H. Doors shall open against higher air pressure to effect seal.

2.06 REMOVABLE ACCESS PANELS

A. Removable access panels shall be provided as indicated on drawings and where equipment removal is not possible through access door. Removable panels shall be same construction as housing panels.

2.07 WEATHER HOODS

A. The outdoor intake weather hood shall be completely constructed in aluminum for corrosion resistance. The hood shall ship loose for field installation by the installing contractor. Painted galvanized hoods shall not be acceptable. The outdoor air hood shall be designed with a 4" extruded aluminum louver, bird screen and a plenum enclosure with drain holes. The louver blades shall be drainable type with a maximum 45-degree angle and curved with integral rain baffle. The louver design shall not allow more than 0.03 oz/ft2 water penetration when tested in accordance to AMCA 500. The pressure drop of the complete hood assembly shall not exceed 0.05" wc at a maximum 500 fpm face velocity. A Pre-filter rack system shall be installed within the weather hood enclosure to prevent outdoor air dust and debris from entering the damper and unit casing plenum. Pre-filters installed inside the unit casing plenum and downstream of the outdoor damper will not be acceptable as this will increase overall maintenance on the damper, reduce indoor air quality and promote mold and bacteria growth.

Filter access in the hood shall be accomplished via the louver that is installed with a stainlesssteel piano hinge and spring loaded latch. No tools or ladders shall be required to access the pre-filters in the weather hood assembly.

2.08 FILTER SECTIONS

A. Filters shall be provided as specified and scheduled. Holding frames shall be installed by unit manufacturer to raise filters off floor and to prevent leakage as specified by unit manufacturer.

2.09 REHEAT COIL SECTION

- A. Provide heating hot water reheat coils, piping and internal piping as specified and indicated on drawings.
- B. Terminate piping outside of unit casing for connection by Mechanical Contractor. Provide necessary pipe supports and hangers.
- C. Each coil shall be supported by galvanized steel frame which is independent of unit casing. Support frame shall allow individual coil removal. Coils shall be removable through unit access doors. Blank-off panels shall be galvanized steel sheets with insulation as specified.

2.010 ENERGY RECOVERY SECTION

- A. Refer to Section 23 7214 Heat Recovery Equipment.
- B. The energy recovery section shall feature a rotary energy recovery wheel mounted within a rigid, extruded aluminum framed module containing the wheel drive motor, drive belt, wheel seals, and maintenance free bearings. The module shall be able to slide out for servicing.
- C. The energy recovery system shall include economizer wheel bypass dampers to reduce fan energy usage when energy recovery is not required. The air handler shall be furnished with an outside air intake enthalpy sensor that shall be connected to the unit controller to determine when the energy recovery wheel should be bypassed.
- D. Wheel shall be washable with detergent or alkaline coil cleaner and water. Desiccant shall not dissolve nor deliquesce in the presence of water or high humidity.
- E. The energy recovery system shall have a dedicated microprocessor controller that is networked to the packaged rooftop unit microprocessor controller.

2.011 AIR COOLED CONDENSING UNIT WITH VARIABLE SPEED COMPRESSORS

A. Provide an integral air cooled condensing section with variable speed compressors. The condensing section shall be factory piped, wired, and charged with R-410A refrigerant. The section shall be from the same manufacturer as the air handling unit. Factory mounting and piping an air cooled condensing unit, provided by a third party is not acceptable. The, the exterior cabinet of the air-cooled section shall be of the same construction and paint color as the air handling unit. Compressors shall be variable speed scroll type that can modulate from 25% to 100% capacity per compressor. Variable capacity compressors which do not modulate the speed of the scrolls are not considered equal to a variable speed scroll since they consume more energy at the same capacity output. Mechanically stepped scrolls which are unloaded via a digital signal to a solenoid valve, in a timed sequence, will not be acceptable for this application. The variable speed scrolls shall be operated via a factory supplied variable speed controller per compressor, and all tandem compressors will modulate in unison. Using a single variable speed controller on the lead circuit alone is not efficient during part load conditions, therefore will not be acceptable for this application. Each compressor and controller assembly shall be equipped with the following features: permanent magnet motor, electronic expansion valve, a crankcase heater function, anti-short cycling, built-in phase loss detector, EMC filter, oil return management system, and reverse rotation protection. All refrigeration parts, including the compressor and the speed controller will be located in a closed and vented service compartment, separate from the condenser coil airflow. Compressors located in compartments open to the outside are not acceptable. Compressors shall be mounted on rubber isolators to limit vibration transmission and shall include flexible hoses on both the suction and discharge refrigeration lines. Flexible hoses shall be pressure tested up to 620 psig. All air cooled condensing units above 18 tons will have a minimum of two compressors. Condenser fans shall have 7 air foil type blades with external mounted asynchronous motors that are Class F insulated, IP54 and 100% variable speed. Each condenser fan bank shall be provided with a variable voltage controller which modulates via refrigerant head pressure control for superior part load performance. All the condenser fans in a fan bank shall modulate in unison for each respective circuit. Staging condenser fans are not an acceptable mode of control for head pressure control. Protective guards shall be included on all condenser fans, and condenser coils. The coil protective guards shall be ideal to keep coil at maximum operating performance, protect the condenser from hail damage and allow for easy cleaning with guick release latches. The condenser coils shall be micro-channel design for maximum efficiency performance, consist of a single pass arrangement with integral receiver, and be pressure tested at 650 psig. Coil construction shall consist of aluminum alloys for the fins, tubes and manifolds. Copper tube, aluminum fin condenser coils are not acceptable as they require more refrigeration charge for the same capacity output. The following components shall be included in each

refrigeration circuit: Liquid line filter dryer, hi and low-pressure switch, hi and low-pressure transducers, suction and liquid lines shutoff valves and suction line accumulators. In addition, refrigeration piping must use Shrader type connections for all components, including but not limited to valves and transducers. Under no circumstances shall the units leave the factory without a complete run test and a copy of the QC report shall be provided upon request. Minimum (5) five-year compressor warranties shall be provided. Hot Gas reheat coil shall be installed down stream of direct expansion coil. The control for the hot gas reheat shall be full modulation type for humidity control. Receiver shall be provided and installed to store excess refrigerant in part load operation. Coil shall be same construction as heat pump air side coil.

2.012 DX COIL SECTIONS

- A. Provide cooling coils, piping and piping specialties specified, and indicated on drawings.
- B. Terminate piping outside of unit casing for connection by Mechanical Contractor. Provide necessary pipe supports and hangers.
- C. Coils shall be factory installed in the unit. Coils shall be designed with respective circuits to match the design requirements. All coils shall have a distributor per circuit connection. Primary surface shall be round seamless (3/8" O.D.) copper tube staggered in the direction of airflow. Secondary surface shall consist of rippled aluminum plate fins for higher capacity and structural strength. Fins shall have full drawn collars to provide a continuous surface cover over the entire tube for maximum heat transfer. Tubes shall be mechanically expanded into the fins to provide a continuous primary to secondary compression bond over the entire finned length for maximum heat transfer rates. Casing shall be constructed of continuous 304 stainless steel. Coils shall be circuited for counter-flow heat transfer to provide maximum mean effective temperature difference for maximum heat transfer rates. Headers shall have intruded tube holes to provide a large brazing surface for maximum strength and inherent flexibility. The complete coil shall be tested with 315 pounds air pressure under warm water and be suitable for operation at 250 psig working pressures. Maximum finned coil height shall be 60" and shall not exceed 500 FPM face velocity. Drain pan shall be provided on cooling coils. Cooling coils shall sit on stainless steel tubular support rails, which shall stand a minimum of (2) two inches above the highest point of the floor drain pan. Stacked coils shall be provided for larger airflows and intermediate drain pans shall be provided for each coil bank. Drain pans shall be stainless steel with 1.5" stainless steel drain connections on one side only. Pan shall be sloped in two planes. All coils shall be certified in accordance with ARI standard 410.
- D. Each coil shall be supported by a 304 stainless steel frame which is independent of unit casing. Support frame shall allow individual coil removal. Coils shall be removable through unit access doors or removable access panels. Blank-off panels shall be 304 stainless steel sheet with insulation as specified.
- E. Each coil support shall include minimum 16 ga 304 stainless steel all welded condensate drain pan extending minimum 6", but no more than 12" downstream of coil face. Each drain pan shall have sufficient depth to hold condensate water but not less than 2". Drain pan shall be sloped in 2 directions (pitched down in direction of airflow and pitched sideways to drain connection) for self-drainage at minimum 1/4"per foot slope. Drain pan shall be individually piped down to drain pan located below, and bottom drain pan to be piped to hub drain at exterior of unit. Drain connection opening shall be flush with bottom of pan. Side pan connection located at lowest point of pain may be used only where bottom pan connection cannot be used. Drain pipe shall be 304 stainless steel with sufficient size, but not less than 1-1/2".
- F. Instead of drain pan under bottom coil, recessed pan, integral with unit floor may be used. It shall be constructed as specified above including thermal insulation and drain lines, and shall incorporate required drain trap height. The drain pan shall be of sufficient length downstream from the coil to collect all condensate water that leaves the cooling coil.

2.013 FAN SECTION

- A. Fan and motor shall be provided as scheduled and meet requirements of appropriate specification sections.
- B. Fan and motor shall be factory mounted on vibration isolation equipment meeting requirements of Section 23 0550 - Vibration Isolation. Vibration base shall include integral adjustable motor base.
- C. Vibration isolation base shall have seismic restraints capable of containing fan in all directions with up to 1G of force applied.
- D. Provide track in fan section suitable for use with trolley-type winch, to be used for removing fan motor. Track shall be centered with fan section access door.
- E. Unit manufacturer shall provide flexible connection between fan and discharge wall. Unit manufacturer shall provide 1 set of additional sheaves as required to balance unit. Installation of any additional sheaves shall be responsibility of Balancing Contractor.
- F. The fans shall be carefully positioned and installed at an optimal distance to respect uniform airflow across the heat exchanger & coil(s).
- G. Plenum Fans ER model: Fans shall be direct drive radial centrifugal fans with free running impeller.
- H. Fan array will require to be operated by one VFD per fan, and each fan shall be provided with a backdraft damper that shall close in the event of a fan failure. Individual fan VFDs are not required to be provided with bypass starters.
- I. Fan array shall have N+1 redundancy to allow for 100% design airflow upon a single fan failure.
- <u>L.J.</u> Plenum fan shall come equipped with guard grilles for the air intake side.

2.014 DISCHARGE AIR SECTION

A. Provide with framed discharge opening or spun bellmouth fitting conforming to size and configuration of the ductwork.

2.015 FLOOR OPENING PROTECTION

A. Floor shall have safety grates using 1" x 1/8" steel bar stock on 1-1/4" center spacing. Grates shall have same finish as floor. Provide 1-1/2" lip of galvanized steel at entire perimeter of opening.

2.016 ROOF CURB

- A. Curbs shall be Mason, Type RSC or equal
- B. Construct roof mounting curb to mate and seal with unit casing base. Curb to have minimum height of 12".
- C. Construct curb to support perimeter of entire unit. Form top curb members to provide counter flashing.
- D. Curb mounted roof top equipment shall be flexibly ducted. Units shall be supported by spring isolation curb, lower member of which is rigid steel tube or specially formed steel section containing adjustable and removable steel springs that support upper floating section. Upper frame must provide continuous support for equipment and must remain captive when resiliently resisting wind and seismic forces. Directional neoprene snubber bushings must be minimum of 1/4" thick. Steel springs shall rest on 1/4" neoprene acoustical pads. Hardware must be cadmium or zinc electroplated and springs similarly plated or provided with approved rust resistant finish. Springs shall have minimum 2-1/2" deflection. Spring type isolators shall be free standing and laterally stable without any housing. Mountings shall have leveling bolts rigidly bolted to the equipment. Spring diameters shall be no less than 0.8 of compressed height of spring at rated load and shall have minimum additional travel to solid equal to 50% of rated deflection. Ratio of lateral to vertical stiffness of vibration isolators shall not be less than 0.8 or greater than 2.0.

E. Curb's waterproofing shall consist of continuous galvanized flexible counterflashing nailed over lower curb's waterproofing and joined at corners by EPDM bellows. Spring locations shall have access ports with removable waterproof covers. Lower curbs shall have provision for 2" insulation.

2.017 CONTROLS

- A. The unit shall be delivered with factory installed control system. Under no circumstances shall the unit controls be provided by other than the manufacturer of the AHU equipment. Field installed control package will not be acceptable. The control system shall consist of a microprocessor with LCD display, 7-day time clock, 20-day holiday schedule, occupied/unoccupied mode switch, warm up mode, cool down mode, hi-lo limit discharge control, fan status, temperature and humidity sensors when applicable, scroll buttons to change settings as required and alarm history. The control system main purpose will be as specified on the Sequence of Operation.
- B. Supply air temperature and humidity sensors shall be provided and be field mounted in the supply duct and wired by others. Space temperature and humidity wall mount sensors shall be provided, field mounted and wired by others as part of the BAS controls. Terminals for remote control shall be provided for entire unit ON/OFF, OCCUPIED/UNOCCUPIED mode selection and alarm contact. Refer to the Sequence of Operation and control schematic for detailed description and options.
- C. The control microprocessor shall communicate with the BAS with a Bacnet MS/TP interface.
- D. Control devices, will be furnished by Control Contractor and shall be factory installed by unit manufacturer as shown on plans and as described in control section of specifications.
- E. Control devices will be provided by Control Contractor. Unit manufacturer shall coordinate with Control Contractor and provide sleeved openings on unit housing for control devices as required and as shown on drawings.
- F. VFDs VFDs will be used to set or regulate the fan speed and airflow for these units. The VFDs will modulate fan speed to maintain setpoint duct static pressures as measured by duct mounted pressure sensors. The VFD shall also have PID function for constant flow applications. The VFDs will be installed with integral brake transistor, overload protection, and adjustable pulse-width modulation (PWM). The VFD shall use Insulated Gate Bipolar Transistor (IGBT) technology to convert three phase input power to coded PWM output and have 4-20mA analog output terminals that are fully programmable for variable flow applications. The VFD shall be equipped with a keypad with status indicators, easy access functions, and monitoring functions during motor operation. In the event of a momentary power failure or fault the VFD shall read the inverter speed and direction of a coasting motor and shall automatically restart the motor smoothly. Technical support will be provided by the VFD manufacturer. VFDs shall be installed as shown on drawings with contactors, relays, and all specified accessories. Fan array VFDs will be installed without a bypass.

2.018 TESTING

- A. Owner and/or Owner's representative may elect to witness tests. Notify Owner and/or Owner's representative of test date at least 2 weeks in advance. Submit certified test data to Engineer for approval.
- B. Unit manufacturer shall provide factory tests to verify casing leakage after units are assembled.
- C. Unit manufacturer and installing contractor shall jointly provide field tests to verify casing leakage after units are installed at jobsite. Coordinate with Electrical Contractor for power to unit test fan.
- D. Casing leakage tests shall verify that unit casing leakage is less than 1% of design air flow at 10" WG static pressure.

2.019 ELECTRICAL SERVICE

- A. Provide adequate lighting and switching so equipment can be observed and maintained in safe manner. Combination lighting and convenience outlet circuit is required for each section of unit. Each access section shall contain a minimum of one light fixture. Sections wider than 12 ft shall have multiple light fixtures with maximum spacing of 6 ft.
- B. Lights, switches, convenience outlets, wiring and conduit shall meet requirements of appropriate specification sections of Division 26.
 - 1. Provide one central light switch with pilot light for all sections. Locate switch near power connection point.
 - 2. Provide timer for light switch to automatically turn off lights after preset time. Timer shall be similar to Intermatic Model FF2H with 0-2 hr range and hold feature to override automatic shut-off function.
- C. Wiring and conduit inside of unit shall be provided by unit manufacturer meeting requirements of appropriate Specification Sections of Division 26.
 - 1. Provide junction box for each fan motor at outside of unit wall for 3-phase, 480 V power connection and separate junction box for single-phase, 120 V power connection.
 - 2. Provide two points of power connection, one for 3-phase, 480 V and one for single-phase, 120 V power connection.
- D. POWER AND SAFETY CONTROL
 - A. The power and control center shall be integral to the unit housing and rated equivalent to NEMA 3R. Under no circumstances shall any wiring or parts be field installed. Panels that are externally mounted to the unit shall not be accepted, regardless of the NEMA rating they may have. A separate access door shall be provided with an approved locking device. All electrical components contained in the panel shall be UL/CSA certified and labeled. The unit shall be complete with VFDs, fuses, overloads; one VFD per fan w/backdraft isolation dampers on the fan inlets, relays, phase protection for compressorized units, terminals for main ON/OFF and step-down transformer. All components shall be factory wired for single point power connection by the manufacturer of the unit. A non-fused safety disconnect switch shall be factory installed for ON/OFF servicing. An electrical pipe chase for power and control feeding shall be provided next to the control panel. Any power or control wiring that is field installed shall not be accepted under any circumstances. The Short Circuit Current Rating (SCCR) is 5kA rms symmetrical, 600V maximum.

2.020 UV (ULTRA VIOLET) - C EMITTERS:

- A. Manufacturers: Steril-Aire, Inc., UVDI, or American Ultraviolet. Assembly shall be equal to Steril-Aire Model DE.
- B. Provide UVC emitters at downstream side of coiling coils and above drain pans in air handling units as scheduled to control airborne and surface microbial growth and transfer.
- C. Emitters shall comply with UL Standard 1995 as applicable to usage of UVC emitters in HVAC equipment.
- D. Emitters shall be independently tested under typical HVAC conditions and in accordance with ANSI/ASQCZ1.4. Total output per 25 mm(1") arc length shall not be less than 9 μW/cm² at one meter in 2.0 m/s(400 fpm) airstream of 32°C(50°F) air.
- E. UVC emitter and fixture shall consist of housing, power source, reflector, emitter sockets and emitter tube and shall be constructed to withstand HVAC environments.
- F. Housing shall be constructed of 304 or 316 stainless steel with 13 mm(1/2") electrical knockouts on both ends to simplify gang wiring and wiring to power. It shall incorporate components into one integral assembly that maximizes serviceability and radiant flux.
- G. Reflector shall be constructed of heavy gauge, spectral finished aluminum alloy with minimum 85% reflectance at 254 nm UVC energy.

- H. Emitter shall be of high output, hot cathode, T5 (15 mm) diameter, medium bi-pin type, capable of producing 95% of energy at 254 nm in air flow velocity to 5.0 m/s(1000 fpm) at temperature of 1°C to 66°C(35°F 150°F). UVC emitters shall produce no ozone or other secondary contamination. Useful emitter life shall not be less than 9000 h, with no more than 40% output loss at end of one year of continuous use.
- I. Irradiance: Provide UVC lamps and fixtures in sufficient quantity to irradiate coil surfaces and air stream with no shadows and with minimum UVC irradiance at every point along face of coil at not less than 1225 μ W/cm² at design cooling conditions with bulb mounted 300 mm(12") from coil face.
- J. UVC Monitoring: Provide NIST traceable UV Radiometer consisting of solid state photodiode UV sensor and externally mounted controller with visual indicators of UVC output and contacts for BAS communication. Controller must have ability to read real-time UVC energy levels by display module with minimum 89 mm(3.5") digit LCD screen/panel. Irradiance range shall be 0-1999 (x10) μ W/cm² with resolution of 10 μ W/cm². Calibration wavelength shall be 254 nm with accuracy ±10%.

2.021 PIPED SERVICE

- A. All piping and equipment installation shall be complete. Piping shall be installed and tested per appropriate specification section. Unit manufacturer shall be responsible for any leaks, which occur in unit during system testing which occurs before system startup.
- B. AHU manufacturer to provide an internal pipe chase for HHW piping to enter the casing through the inside of the roof curb.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Units shall be assembled in modules in unit manufacturer's plant to allow for testing of complete unit.
- B. Unit manufacturer shall supervise and be responsible for all field joining of the modules, including sheet metal, electrical and piping. Local trades may provide labor for unit assembly and installation.
- C. Joints in floor between modules shall be air and water tight.
- D. Unit manufacturer shall provide and install all equipment within unit as specified including fans, motors, coils, humidifiers, dampers, sound attenuating devices, piping, piping specialties, ductwork specialties, lights, switches and all equipment necessary to complete air handling equipment contained within housings. Mechanical and electrical connections (i.e., piping and conduit) shall be stubbed through housing so that appropriate contractor may provide service to air handling unit. Electrical wiring and control wiring shall terminate in junction boxes on accessible side of unit.
- E. Provide structural steel sub-base as required. Refer to Unit Base in Part 2.
- F. Field mounting of any equipment on housing walls or roof is not allowed without prior approval of Engineer.
- G. Unit manufacturer and Installing Contractor shall coordinate with other trade Contractors, all necessary requirements to assure proper air handling unit installation.

3.02 PROTECTION OF OPENINGS

A. Protect openings on housings during construction against entry of foreign matter and construction dirt.

3.03 FIELD TESTING

A. Unit manufacturer and Installing Contractor shall jointly perform field casing leakage tests on each completed housing assembly as previously specified and shall be responsible for repair of all leaks. Submit certified test data to Engineer for approval.

3.04 UVC EMITTERS

- A. Install UVC Emitters at outlet of cooling coils and above drain pans in accordance with manufacturer's instructions of installation, placement, wiring and testing.
- B. Provide interlock switch on access door to UVC Emitters to turn Emitters off when access door is opened.

END OF SECTION

SECTION 237400 PACKAGED ROOFTOP AIR HANDLING UNITS

PART 1 - GENERAL

1.01 RELATED WORK

- A. Section 20 0513 Motors
- B. Section 20 0514 Variable Frequency Drive (VFD) System
- C. Section 23 0550 Vibration Isolation
- D. Section 23 7214 Heat Recovery Equipment
- E. Section 23 0901A Controls Systems

1.02 SUBMITTALS

- A. Shop Drawings including, but not limited to, the following:
 - 1. Manufacturer's name and model number
 - 2. Identification as referenced in the documents
 - 3. Capacities/ratings
 - 4. Materials of construction
 - 5. Inlet and discharge sound power levels
 - 6. Filters; size, efficiency
 - 7. Fans; type, drives
 - 8. Motor data (refer to Section 20 0513 Motors)
 - 9. Power and control wiring diagrams
 - 10. Vibration isolation furnished with units
 - 11. Dimensions and weights
 - 12. Manufacturer's installation instructions
 - 13. All other appropriate data
- B. Fan curves shall include a series of curves indicating relationship of cfm and static pressure for various rpm and brake hp curves. Indicate design operating point clearly on fan curves.

1.03 DESIGN CRITERIA

- A. Design units specifically for outdoor rooftop application.
- B. Units to be completely factory assembled and run tested, piped, internally wired, fully charged with refrigerant and compressor oil when specified, and shipped in one piece. Provide factory wired non-fused disconnect switch.
- C. All units shall be factory run tested to check cooling operation, fan and blower rotation and control sequence.
- D. Furnish units complete with all components, accessories, and operating and safety controls to provide the intended performance as specified in this section, as shown on drawings and/or as scheduled.
- E. V-belt drives shall be designed for 150% of motor rating.
- F. Insulation and liners to meet NFPA-90A requirements.
- G. Unit shall be UL Listed and carry UL Label.
- H. Cooling and/or heating coils to be rated in accordance with AHRI Standard 410.
- I. Each fan and motor combination shall be capable of meeting both of the following conditions while maintaining stable fan performance:
 - 1. Deliver 110% of air quantity scheduled at scheduled static pressure.
 - 2. Unit static pressure shall take into consideration actual static pressure loss of components furnished within unit.
- J. Fan motor shall not operate into motor service factor in any case. Drive efficiency shall be considered in motor selection according to manufacturer's published recommendation, or according to AMCA Publication 203, Appendix L.
- K. Where inlet and outlet ductwork at any fan is changed from that shown on the drawings, submit scaled layout of the change and system effect factor calculations, indicating increased static

pressure requirement as described in AMCA Publication 201. This Contractor shall be responsible for any motor, drive and/or wiring changes required as result of duct configuration changes at fan.

1.04 TEST REPORTS

- A. Manufacturer or manufacturer's representative shall field check, test and start all units after they have been properly installed. Component systems to be run and adjusted to perform quietly and efficiently at capacities scheduled.
- B. Manufacturer or his representative shall provide services to field instruct and check unit operation and control of complete system. Instruction shall not take place until HVAC system has been field checked, tested, started and balanced. Manufacturer shall establish instruction dates, and give Engineer and Owner 10 days written notice of the time. Instruction shall be deemed completed when affidavit of instruction has been signed by representative of manufacturer and Owner.

1.05 OPERATION AND MAINTENANCE DATA

A. Refer to Section 20 0000 - General Mechanical Requirements

1.06 GUARANTEE

- A. Manufacturer and Contractor shall provide an extended warranty on rooftop units for a period of 5 yr after acceptance by Owner.
- B. Warranty shall include all cost of parts and labor for any and all work unit manufacturer and/or contractor has to accomplish to repair malfunctioning unit or piece of equipment furnished by unit manufacturer. Warranty shall not cover normal maintenance such as changing of filters, cleaning of coils, and replacement of belts and lubrication of bearings.

PART 2 - PRODUCTS

2.01 PACKAGED ROOFTOP AIR HANDLING UNITS

- A. Manufacturers:
 - 1. Modine, Aaon, Addison, Valent, or Desert Aire
 - 2. Equal to manufacturer's model with capacity and operating characteristics as scheduled.
 - 3. Provide manufacturer's non-prorated five-year extended warranty.
 - Packaged rooftop unit shall include complete system controls, motor VFDs, electric heating section, refrigerant cooling, hot gas reheat section, filters, supply fans, dampers, exhaust fans, and energy recovery wheels as scheduled.
 - 5. Unit shall be provided with bottom discharge and exhaust/return air openings as shown on plans. All openings through the base pan of the unit shall have upturned flanges of at least 1/2 inch in height around the opening.
- B. Casings:
 - 1. Casing, access doors, and roof shall be completely weatherproof and constructed of heavy 18-gauge exterior, 20-gauge interior, double-wall galvanized or phosphatized zinc-coated steel with baked enamel finish and thermal break design at panel frames, joining mullions, base, corners, and access doors.
 - Casing panels, access doors, and roof shall be insulated with 2-inch thick, 2 pound per cubic foot glass fiber or rigid polyurethane foam insulation. Casing panels, access doors, and roof shall have minimum thermal resistance of R-13. All products as applied shall meet the requirements of NFPA 90A, possessing flame spread rating of not over 25 and smoke developed rating of not over 50.
 - 3. Access doors shall be provided for access to filters, dampers, coils, fans, energy recovery wheels, and electrical and controls components. Access doors shall be double wall, heavy gauge galvanized steel complete with full-length corrosion-resistant piano hinges and stainless steel, aluminum, or zinc fasteners to secure door. Access doors and removable panels shall have neoprene gaskets.

- 4. Cabinet base to be constructed to mate and seal with the roof mounting curb. Provide sealing gasket for positive, waterproof seal when unit is installed on curb.
- 5. Unit roof shall be sloped for positive drainage.
- 6. Furnish access doors, exhaust and outside air hoods with rain gutters to protect openings.
- 7. Outside air openings shall be provided with 1-inch aluminum mesh screens and rain hoods to prevent entry of water.
- C. Supply and Return/Exhaust Fans:
 - 1. Backward curved plenum type with adjustable motor sheaves, statically and dynamically balanced and factory tested.
 - 2. Entire fan and drive assemblies to be mounted on a common base and be completely isolated from the unit by factory mounted vibration isolators.
 - 3. Mount fan wheels on solid steel shafts having self-aligning 200,000 h average life permanently lubricated bearings.
 - Fan motors shall be Open Drip Proof (ODP), inverter duty rated for use with Variable Frequency Drives (VFD), and shall meet the requirements of Section 20 0513 - Motors. Motor horsepower and voltage shall be as scheduled.
 - 5. VFDs furnished shall meet the requirements of Section 20 0514 Variable Frequency Drives.
- D. Return-Exhaust Air Section:
 - Unit shall include a motor operated outside air damper and return air damper assembly constructed of extruded aluminum, hollow core, airfoil blades with rubber edge seals and aluminum end seals. Damper blades shall be gear driven and designed to have no more than 20 cfm of leakage per sq ft. at 4 in. w.g. air pressure differential across the damper. Low leakage dampers shall be Class 2 AMCA certified, in accordance with AMCA Standard 511. Damper assembly shall be controlled by spring return actuator. Unit shall include outside air opening bird screen, outside air hood, and barometric relief dampers.
- E. Filters:
 - 1. Filters to be integral part within unit and to be easily accessible from unit via hinged access doors.
 - 2. Filters to be of size, thickness, and capacity scheduled.
 - 3. Unit shall include 2-inch or 4-inch thick, filters with a MERV-11 rating for all outside air intake and return air filters ahead of the energy recovery wheel, and a MERV-13 final filter upstream of the cooling coil and the energy recovery wheel.
 - 4. Unit shall include a clogged filter switch and a Magnehelic gauge mounted in the controls compartment.
 - 5. In addition, furnish 2 sets of filters to be used during construction and initial startup periods.
- F. Refrigerant Cooling:
 - 1. Direct expansion type, factory charged with R-410A refrigerant and fully tested. System to include refrigeration compressors, evaporator coil, air cooled condenser assembly, thermal expansion valves, liquid line valves, sight glass, filter drier, liquid and suction line service valves, and insulated interconnecting refrigerant piping.
 - Evaporator coils to be of non-ferrous construction with seamless copper tubes mechanically bonded to configurated aluminum fins mounted in a 304 stainless steel frame. Furnish adequate refrigeration circuits, each with thermostatic expansion valve and solenoid valve for proper system part load operation.
 - 3. Furnish unit with fully insulated drain pan fabricated from minimum 16-gauge 3014 stainless steel with an additional coat of insulating sealer. Extend drain pan into fan section.
 - 4. Compressor to be hermetic scroll, or semi-hermetic type, designed to operate 1750 rpm.
 - 5. Compressors shall be isolated from the base pan with the compressor manufacturer's recommended rubber vibration isolators, to reduce any transmission of noise from the compressors into the building area.

- 6. Unit shall include a variable capacity scroll compressor on the lead refrigeration circuit which shall be capable of modulation from 25-100% of its capacity.
- 7. Condenser coils shall be seamless copper tubing mechanically bonded to heavy-duty configurated aluminum fins. Condenser coils of aluminum tubes and aluminum fins constructed with Microchannel coil technology will be acceptable. Condenser fans to be propeller type with exposed fan and shaft surfaces suitably weatherproofed. Fan motors to be furnished with normal and current overload protection.
- 8. Refrigeration operating on safety controls to include high and low pressure cutout, oil pressure cutout, non-recycling pump down; manual lockout reset relay, compressor overload protections, magnetic contractors and low voltage control transformer.
- 9. Furnish each unit with fully automatic compressor cylinder unloading capacity control system.
- 10. Lead refrigeration circuit shall be provided with hot gas reheat coil, modulating valves, electronic controller, supply air temperature sensor and a control signal terminal which allow the unit to have a dehumidification mode of operation, which includes supply air temperature control to prevent supply air temperature swings and overcooling of the space.
- 11. Vibration Isolation: Compressor(s) shall be mounted on the compressor manufacturer's recommended rubber vibration isolators to reduce transmission of vibration to the building structure.
- 12. Internal Overload Protection: Compressor(s) shall include internal thermal overload protection to protect against excessive motor temperatures.
- 13. Crankcase Heater: Compressor(s) shall include a crankcase heater to protect against liquid flood-back and the elimination of oil foaming on startup.
- G. Condensers:
 - 1. Weatherproof vertical discharge, direct drive propeller condenser fans with permanently, lubricated ball bearings and built-in thermal overload protection.
 - Condenser fans shall be VFD driven variable speed for condenser head pressure control. Factory provided and factory programmed VFDs shall continuously modulate the fan air flow to maintain head pressure at acceptable levels. Cooling operation shall be allowed down to 35°F with adjustable compressor lockouts.
 - 3. Coils shall be multi-pass and fabricated from aluminum microchannel tubes or coils shall be constructed of copper tubes with aluminum fins mechanically bonded to the tubes and aluminum end casings.
 - 4. Condenser Coil Orientation: The condenser coil shall be sloped approximately 60° from horizontal to protect the coil from hail damage.
 - 5. Condenser Coil Coating: The micro-channel aluminum fin/tube condenser coil will have a flexible epoxy polymer e-coat uniformly applied to all coil surface areas with no material bridging between fins. The coating process will ensure complete coil encapsulation and a uniform dry film thickness from 0.6 1.2 mils on all surface areas including fin edges and meet 5B rating cross-hatch adhesion per ASTM B3359-93. Corrosion durability will be confirmed through testing to no less than 5,000 hours salt spray resistance per ASTM B117-90 using scribed aluminum test coupons. Coils subjected to ultraviolet (UV) exposure will receive a spray-applied, UV-resistant urethane mastic topcoat to prevent UV degradation of epoxy e-coat film.
- H. Dampers
 - Provide factory mounted and wired motorized isolation dampers for return air, outside air, and exhaust air streams. Damper assemblies shall have extruded aluminum, hollow core, airfoil blades with rubber edge seals and aluminum end seals. Damper blades shall have maximum leakage of 4 cfm per sq. ft. of damper area when subjected to 1 inch WG air pressure differential across the damper. Damper assembly shall be controlled by springreturn fail closed actuator and a field wired control signal.

I. Roof Mounting Curbs:

- 1. Curbs shall be Mason, Type RSC or equal
- 2. Construct roof mounting curb to mate and seal with unit casing base. Curb to have minimum height of 12".
- 3. Construct curb to support perimeter of entire unit. Form top curb members to provide counter flashing.
- 4. Curb mounted roof top equipment shall be flexibly ducted. Units shall be supported by spring isolation curb, lower member of which is rigid steel tube or specially formed steel section containing adjustable and removable steel springs that support upper floating section. Upper frame must provide continuous support for equipment and must remain captive when resiliently resisting wind and seismic forces. Directional neoprene snubber bushings must be minimum of 1/4" thick. Steel springs shall rest on 1/4" neoprene acoustical pads. Hardware must be cadmium or zinc electroplated and springs similarly plated or provided with approved rust resistant finish. Springs shall have minimum 2-1/2" deflection. Spring type isolators shall be free standing and laterally stable without any housing. Mountings shall have leveling bolts rigidly bolted to the equipment. Spring diameters shall be no less than 0.8 of compressed height of spring at rated load and shall have minimum additional travel to solid equal to 50% of rated deflection. Ratio of lateral to vertical stiffness of vibration isolators shall not be less than 0.8 or greater than 2.0.
- 5. Curb's waterproofing shall consist of continuous galvanized flexible counterflashing nailed over lower curb's waterproofing and joined at corners by EPDM bellows. Spring locations shall have access ports with removable waterproof covers. Lower curbs shall have provision for 2" insulation.
- J. Electrical:
 - 1. Furnish each unit with factory mounted disconnect device with short circuit and over current protection, and variable speed drives.
 - 2. Power Connections: Control center shall be constructed to permit single-point high voltage power supply connections.
 - 3. Wire Management: All wiring is to be run in conduit that is located between the unit ceiling liner and roof casing with drops from the ceiling to keep wires clear of other internal components, prevent accidental damage to wiring during service, and improve cleanliness of unit interior.
 - 4. Wiring Diagram: The unit shall have a job specific wiring diagram affixed to the interior of the control compartment access door.
 - 5. Convenience Outlet: Unit shall be provided with a factory installed and wired 115 volt, 13 amp ground fault service receptacle mounted on the exterior of the unit casing and powered by a 1.5kVA transformer with disconnect switch in the unit control panel.
 - 6. Motor horsepower and voltages shall be as scheduled.
 - 7. Unless otherwise indicated, units consisting of multiple fans and motors shall be factory pre-wired with the components listed herein. Each unit shall be designed to accept a single-point power connection for incoming line voltage power wiring.
 - 8. Phase/Voltage Failure Relay: The unit shall be provided with an internally mounted phase measurement relay to monitor the 3-phase power supply for phase sequence, phase failure, asymmetry, under voltage and overvoltage.
 - 9. Provide a NEMA 4X gasketed enclosure in a readily accessible location on the exterior of the unit. The enclosure shall contain:
 - a. Power distribution block(s) configured to accept a single-point power connection.
 - b. Wiring and additional power distribution block(s), as required, to break out the singlefeeder incoming power wiring into multiple branch feeders to the multiple motors.
 - c. Equipment grounding bus or lug.

- d. Factory Installed Deadfront Disconnect Switch: Unit shall be provided with a factory installed and wired, dead-front, non-fused disconnect switch.
- e. Separate motor branch circuit disconnect for each motor. Disconnects shall have permanent provisions for padlocking in the OFF position.
- f. Provide engraved, laminated plastic nameplate on cover of enclosure to identify motors served. Attach using screws or rivets; do not use adhesive.
- 10. Each branch feeder to an individual fan motor shall be designed and equipped to comply with the requirements of Article 430 of the National Electrical Code including:
 - a. Motor circuit conductors Article 430.21.
 - b. Motor and branch-circuit overload protection Article 430.32. Provide a separate overload device for each motor as required.
 - c. Motor branch-circuit short-circuit and ground fault protection Article 430.51.
 - d. Motor overtemperature protection Article 430.126. Provide separate overtemperature protection for each motor as required.
- 11. Overload and overtemperature devices may be contained in the enclosure described above or elsewhere in the unit as determined by the manufacturer.
- 12. Label all wiring and power distribution block positions according to factory wiring diagram furnished with unit.
- 13. All motor wiring for the unit fan section shall be completely pre-wired within unit at factory. The only field wiring connection required shall be the incoming line voltage power wiring to a single-point connection in the electrical enclosure.
- K. Unit Controls:
 - 1. Integral Factory-Provided Controller:
 - a. Unit controller shall be capable of controlling all features and options of the unit. The programmable microprocessor controller shall be factory installed in the unit controls compartment and factory tested. Controller shall be capable of standalone operation with unit configuration, setpoint adjustment, sensor status viewing, unit alarm viewing, and occupancy scheduling available without dependence on a building management system.
 - b. Control Panel: All components located in the panel shall be clearly marked for easy identification. All terminal blocks and wires shall be individually numbered. All electrical wires in the control panel shall be run in an enclosed raceway.
 - c. Controller shall have an onboard clock and calendar functions that allow for occupancy scheduling.
 - d. The controller shall monitor output from sensors within each unit subsystem and automatically adjust operating parameters to maintain programmed setpoints, strategies and sequences. The controller will be programmed to operate the unit in an energy efficient manner using pre-engineered control strategies.
 - e. Controller shall include non-volatile memory to retain all programmed values without the use of a battery, in the event of a power failure.
 - f. Cooling capacity shall modulate based on supply air temperature.
 - g. With modulating hot gas reheat, unit shall modulate cooling and hot gas reheat as efficiently as possible, to meet outside air humidity loads and prevent supply air temperature swings and overcooling of the space.
 - h.g. Heating capacity shall modulate based on supply air temperature.
 - H.h. The controller shall contain LED's and/or LCD interface to indicate the power status, communications status, and fault conditions that arise during operation. Fault conditions indicated include but are not limited to supply air sensor failure, outdoor air sensor failure, space sensor failure, mechanical cooling failure, mechanical heating failure, low supply temperature alarm, high supply temperature alarm, and control temperature cooling or heating failure. The controller shall also monitor outside

temperature for heating and cooling circuit lockout during mild conditions. If temperatures fall below the low supply temp alarm point, the unit shall be shut down.

- 2. Unit configuration, setpoint adjustment, sensor status viewing, unit alarm viewing, and occupancy scheduling shall be accomplished with connection to interface module with LCD screen and input keypad, interface module with touch screen, or with connection to PC with free configuration software. Controller shall be capable of connection with other factory installed and factory provided unit controllers with individual unit configuration, setpoint adjustment, sensor status viewing, and occupancy scheduling available from a single unit. Connection between unit controllers shall be with a modular cable. Controller shall be capable of communicating and integrating with a BACnet network.
- 3. Damper Controls: The damper controls subsystem shall be controlled by the microprocessor controller.
- 4. Variable-air-volume (VAV) Control for Supply and General Exhaust Fan Control:
 - a. Control fan VFD to maintain duct static pressure setpoint(s).
 - b. Provide duct static pressure sensors with 0-5 VDC output and 0-5" WG range.
 - c. The variable frequency drive will operate the supply fan at a reduced speed during energy recovery wheel economizer by-pass operation. The reduction in fan speed during economizer bypass mode is to prevent a significant increase in airflow from the reduction in system static pressure when the supply air by-passes the energy recovery wheel.
- 5. Temperature Controls: The temperature controls subsystem shall be controlled by the microprocessor controller as follows:
 - a. Supply Air Temperature Control The controller shall monitor and control the supply air temperature to maintain the desired supply air temperature.
 - b. Dehumidification Control based on Outside Dewpoint The controller shall monitor an outside temperature/humidity sensor and enter dehumidification mode if the outside air dew point exceeds the desired setpoint. In dehumidification mode, the controller shall monitor an evaporator coil suction line pressure sensor and calculate corresponding coil temperature. The controller shall then modulate the digital scroll compressor to maintain the desired coil temperature, based on suction line pressure, necessary to increase latent heat (moisture) removal. The hot gas reheat option is highly recommended to avoid overcooling the space.
 - c. When equipped with the hot gas reheat option, the controller shall monitor a factory supplied, field installed supply air temperature sensor and control the modulating hot gas reheat valve to vary the flow of hot condenser gas through the reheat coil to maintain the desired supply air temperature setpoint and prevent temperature swings and overcooling of the space during dehumidification.
 - d.c. The controller shall monitor the outside air temperature sensor and lockout each compressor at a preset adjustable temperature setpoint.
- 6. Energy Recovery Controls: The energy recovery controls subsystem shall be controlled by the microprocessor controller as follows:
 - a. The energy recovery module wheel operation is controlled to rotate when energy recovery is maximized without causing a rise in latent loading to the mechanical cooling equipment.
 - b. Economizer Bypass: The module shall include an economizer wheel bypass damper. To maximize energy recovery effectiveness, the energy recovery module bypass damper is closed when the wheel is rotating and to minimize supply fan energy consumption, the damper is open when the wheel is not rotating.
 - c. Economizer Bypass Jog Mode: The module shall include energy recovery wheel startstop jog control to periodically rotate the wheel position during economizer mode to avoid wheel contamination from the airstream.

- d. Wheel Defrost Mode: The module shall include energy recovery wheel defrost control to periodically stop the wheel rotation to allow the warm exhaust air to defrost the wheel.
- e. Wheel Preheat: The energy recovery module shall include an optional electric preheat element. The control shall cycle the preheat element on or off based on the outside air temperature and indoor air temperature and relative humidity to ensure the temperature to the wheel exceeds the frost threshold setpoint.
- f. Wheel Rotation Sensor: When equipped with the optional wheel rotation sensor, the main unit controller shall monitor the sensor and initiate an alarm signal if wheel rotation is not sensed when energized.
- g. Wheel Pressure Drop Switch: When equipped with the optional wheel pressure drop switch, the main unit controller shall monitor the switch and initiate an alarm signal if the wheel pressure drop exceeds the switch setpoint of the switch. The wheel pressure drop can rise if the wheel is excessively dirty or if the wheel has frosted.
- 7.6. Make-up Air Control, For Return-Air Units
 - a. Provide return air dampers, sensors, and controllers as required to control return air flow.
 - b. Unit shall modulate heating, cooling, and return air flow with variable outside air flow to meet ventilation outside air loads. Cooling capacity shall modulate based on supply air temperature.
 - c. Unit shall efficiently modulate cooling, return air, hot gas reheat and the internal reheat system, to meet space temperature and humidity loads and prevent supply air temperature swings and overcooling of the space. Space temperature and humidity sensors shall be provided.
 - d. The unit controls shall also monitor the outside air temperature and humidity conditions, the unit discharge supply air temperature, filter differential pressure, and refrigerant suction pressure.
- 8. Controls for 100% Outside Air Lab Units:
 - a. Unit shall control the heat recovery wheel and general exhaust fan to provide exhaust system pressure and flow capacity to the air valves.
 - b. Provide general exhaust and outside air filter differential pressure monitoring and outside air damper control.
 - c. Unit shall monitor the outside air temperature and humidity after the heat wheel but before the unit cooling coil. The unit shall efficiently control the heat wheel, cooling coil, hot gas bypass coil and natural gas reheat coil to provide unit supply air temperature and humidity setpoint conditions.
 - d. Unit shall also monitor the refrigerant suction pressure.

2.02 UV (ULTRA VIOLET) - C EMITTERS:

- A. Manufacturers: Steril-Aire, Inc., UVDI, or American Ultraviolet. Assembly shall be equal to Steril-Aire Model DE.
- B. Provide UVC emitters at downstream side of coiling coils and above drain pans in air handling units as scheduled to control airborne and surface microbial growth and transfer.
- C. Emitters shall comply with UL Standard 1995 as applicable to usage of UVC emitters in HVAC equipment.
- D. Emitters shall be independently tested under typical HVAC conditions and in accordance with ANSI/ASQCZ1.4. Total output per 25 mm(1") arc length shall not be less than 9 μW/cm² at one meter in 2.0 m/s(400 fpm) airstream of 32°C(50°F) air.
- E. UVC emitter and fixture shall consist of housing, power source, reflector, emitter sockets and emitter tube and shall be constructed to withstand HVAC environments.

- F. Housing shall be constructed of 304 or 316 stainless steel with 13 mm(1/2") electrical knockouts on both ends to simplify gang wiring and wiring to power. It shall incorporate components into one integral assembly that maximizes serviceability and radiant flux.
- G. Reflector shall be constructed of heavy gauge, spectral finished aluminum alloy with minimum 85% reflectance at 254 nm UVC energy.
- H. Emitter shall be of high output, hot cathode, T5 (15 mm) diameter, medium bi-pin type, capable of producing 95% of energy at 254 nm in air flow velocity to 5.0 m/s(1000 fpm) at temperature of 1°C to 66°C(35°F 150°F). UVC emitters shall produce no ozone or other secondary contamination. Useful emitter life shall not be less than 9000 h, with no more than 40% output loss at end of one year of continuous use.
- Irradiance: Provide UVC lamps and fixtures in sufficient quantity to irradiate coil surfaces and air stream with no shadows and with minimum UVC irradiance at every point along face of coil at not less than 1225 μW/cm² at design cooling conditions with bulb mounted 300 mm(12") from coil face.
- J. UVC Monitoring: Provide NIST traceable UV Radiometer consisting of solid state photodiode UV sensor and externally mounted controller with visual indicators of UVC output and contacts for BAS communication. Controller must have ability to read real-time UVC energy levels by display module with minimum 89 mm(3.5") digit LCD screen/panel. Irradiance range shall be 0-1999 (x10) μ W/cm² with resolution of 10 μ W/cm². Calibration wavelength shall be 254 nm with accuracy ±10%.
- K. Electrical:
 - Power source shall be 115 V, with power factor of 0.95 and power conversion of not less than 75%. It shall be designed to maximize photon production, radiance and reliability and suppress RF and line noise in airstreams of 5°C to 56°C(41°F -132°F) and airflows to 5.0 m/s(1000 fpm).
 - 2. Power consumption shall be no more than 13 watts/sf of treated, cross sectional plane.
 - Provide interlock switch on access doors to turn UVC off when access doors are opened. Provide additional manual on/off switch (electrical disconnect) for UVC system service purposes.
- L. Startup and Calibration Service: UV supplier shall provide services to startup, calibrate, monitor, verify output and certify that UVC energy output meets specified requirements.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install all units as indicated on plans and according to unit manufacturer's instructions and all applicable building codes.
- B. General Contractor will set and install roof-mounting curb as integral member of building roof structure.
- C. Install all ductwork, electrical and piping connections to unit as shown on drawings and as required to complete installation.
- D. Provide all wiring between rooftop units, remote panels, time clocks and other temperature control devices.
- E. Manufacturer and/or manufacturer's representative shall calibrate all control devices and adjust unit automatic dampers to insure proper operation of system.
- F. Install space thermostats approximately 4'-0" above floor and as shown on drawings.

3.02 UVC EMITTERS

- A. Install UVC Emitters at outlet of cooling coils and above drain pans in accordance with manufacturer's instructions of installation, placement, wiring and testing.
- B. Provide interlock switch on access door to UVC Emitters to turn Emitters off when access door is opened.

END OF SECTION
PLO.562	FLOW TEST REPORT	Phoenix Fire Protection, Inc. 1211 Commercial Park Drive Tallahassee, FL 32303 850-562-0999
1.	Test Conducted for: Poole Engineering	
2.	Location of Property: near the intersection of West Paul Dirac Drive and Nort	h Paul Dirac Drive
3.	Date & Time of Test - Date: 08/27/21 Time: 1:15p	m
4.	Test Conducted By: Kayse Hammond with Phoenix Fire Protection, Inc.	
5.	Test Witnessed By: Ronald Harris with City of Tallahassee Utilities	
6.	Source of Water Supply: Gravity 🛛 Pump 🗌 Other:	
7.	Name of Water Purveyor: City of Tallahassee	
8.	Is water supply provided with PRV STA's: Yes \Box No $igtimes$ If so what is PRV ou	itlet setting
9.	Outlet Coefficient: No Coefficient for Inlets with Smooth Radius Edge. \Box 0.77 Coefficient for Inlets with Paired Square Lin	

- 0.77 Coefficient for Inlets with Raised Square Lip.0.88 Coefficient for Inlets with Sharp Square Edge.
- 1.10 Coefficient for Open End Pipe.

FLOW TEST DATA							
Flow @ Hydr. No.	Static & Resd. @ Hydr. No.	Static PSI	Residual PSI	Flow PSI	Flow GPM	Outlet Coefficient	Adjusted GPM
1				70	1405	0	1405
	2	110	95				

ADJUSTED POLLARD WATER COEFFICIENTS FOR POLLARD WATER EQUIPMENT



No Coefficient for Inlets with Smooth Radius Edge.

0.77 Coefficient for Inlets with Raised Square Lip. 0.88 Coefficient for Inlets with Sharp Square Edge. 1.10 Coefficient for Open End Pipe.





Fire Hydrant Map

This product has been compiled from the most accurate source data from Leon County, the City of Tallahassee, and the Leon County Property Appraiser's Office. However, this product is for reference purposes only and is not to be construed as a legal document or survey instrument. Any reliance on the information contained herein is at the user's own risk. Leon County, the City of Tallahassee, and the Leon County Property Appraiser's Office assume no responsibility for any use of the information contained herein or any loss resulting therefrom.



Ν

	Tallahassee/Leon County GIS
e:	Leon County Courthouse 301 S. Monroe St. P3 Level
ו:	Tallahassee, FI. 32301 850/606-5504
2021	http://www.tlcgis.org



August 26, 2021

Re: Flow Test

To Whom It May Concern:

On 08/26/21 I witnessed the following fire hydrant flow tests for Phoenix Fire Protection.

- Near the intersection of Roberts Avenue North Paul Dirac Drive
- Near the intersection of West Paul Dirac Drive and North Paul Dirac Drive
- Near Mahan Drive and Crump Road

Please contact me at 850-694-8041 if you have any questions.

Sincerely,

Ronald Harris City of Tallahassee Utilities

ande watt

PHOENIX FIRE PROTECTION, INC.

1211 Commercial Park Drive, Tallahassee, FL 32303 850-562-0999



February 9, 2022

Cheryl Poole Poole Engineering Tallahassee, FL

Re: N. Fla Innovation Labs at Innovation Park

Hey Cheryl,

I inspected the site and plans and the 60" and 48" live oaks in question. The 60" oak is being impacted by a proposed retaining wall and slope that will excavate down into the root system. The 48" is impacted by a proposed sidewalk along Paul Dirac which also crosses the outskirts of the 60". Below is what I recommend to help mitigate any possible impacts to these two trees:

- 1) Install orange tree protection fencing around the CPZ of each tree up to the construction limits. This orange fence is to be installed with 6 ft metal t-posts spaced 10 ft apart and orange mesh fencing between each post around the perimeter of the drip line of the tree.
- 2) Deadwood prune the oaks, removing any dead limbs 2" and larger and any vines and raise the canopy of the live oak as needed to make sure low limbs are not damaged by equipment.
- 3) Root prune on the trees side of each impact area described above. Depending on the grade of the slope, a mechanical root pruner will be used to flush cut all roots 1" and larger. If grade is too steep, roots will be hand pruned as needed.

We cannot guarantee the survival of the trees listed above, however, the mitigation procedures we discussed above, if properly implemented, will mitigate any impacts from construction according to the permit and plans. If you have any further questions, please give me a call.

Clay Culpepper Certified Arborist #FL5924A Miller's Tree Service 850-566-3881





BREAK LINE TO BREAK OFF PARTS OF DRAWING SINGLE DASH LINE _____ COLUMN LINES

Legend of Architectural Symbols:

	Appliable Codec:	
<i>_</i>	Applicable Codes.	
F F F F F F	Florida Building Code, Building (FBC-B) Florida Building Code, Accessibility (FBC-A) Florida Building Code, Existing Building (FBC-EB) Florida Building Code, Mechanical Florida Building Code, Fuel Gas Florida Building Code, Plumbing Florida Fire Prevention Code (FFPC) National Electrical Code (NEC)	7th Edition 7th Edition 7th Edition 7th Edition 7th Edition 7th Edition 7th Edition 2017 Edition
	NOTE: "CONTRACTOR SHALL MAKE AVAILABLE TO THE BUILDING INSPECTOF NECESSARY TO VERIFY THAT ALL EXTERIOR ENVELOPE COMPONENTS I APPROVAL PER FS 553.842 ARE IN COMPLIANCE WITH PRODUCT APPR REQUIREMENTS."	R DOCUMENTATION REQUIRING PRODUCT OVAL INSTALLTION

Applicable Codes

1) THESE DRAWINGS AND RENDERINGS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS AND COPIES THEREOF, INCLUDING ELECTRONIC MEDIA AND CAD FILES, ARE THE PROPERTY OF ARCHITECTS: LEWIS + WHITLOCK, P.A. THEIR USE, REPRESENTATION OR REPRODUCTION IN ACTUAL FORM OR CONTENT BY ANY ENTITY THAT POSSESSES THEM FOR ANY PURPOSE EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT IS PROHIBITED. THE COPYRIGHT NOTIFICATION SHALL BE TRUE AS IF DIRECTLY PLACED ON EACH DRAWING, DETAIL, EXHIBIT OR RENDERING ON THIS DOCUMENT AND SHALL NOT BE REMOVED FROM THESE DOCUMENTS.

2) ALL DIMENSIONS ARE TO THE FACE OF STUD OR STUD TRACK, CENTER LINE OF STUD OR STUD TRACK, FACE OF MASONRY AND TO THE CENTER LINE OF STRUCTURAL STEEL COLUMNS, UNLESS OTHERWISE INDICATED. 3) WHERE STRUCTURAL DESIGN LOADS ARE NOT PROVIDED FOR ANY COMPONENTS REQUIRING MANUFACTURER OR FABRICATOR ENGINEERING, AND MINIMUM LOADING CONDITIONS ARE NOT PROVIDED IN APPLICABLE CODES AND STANDARDS, CONSULT ARCHITECT PRIOR TO PROCEEDING.

4) DIMENSIONS FOR PATHS OF EGREES INCLUDING CORRIDORS AND STAIRS SHALL MEAN CLEAR WIDTH BETWEEN CORRIDOR WALLS, AND AT STAIRS CLEAR WIDTH BETWEEN WALLS OR CURBS.

5) DO NOT SCALE DRAWINGS, IF THERE IS A CONFLICT IN DIMENSIONS OR IF THERE IS INSUFFICIENT DIMENSIONING, CONTACT THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING. 6) IF AN ORDER OF PRECEDENT FOR THE INTERPRETATION OF DOCUMENTS IS NOT PROVIDED IN THE PROJECT MANUAL (IF

PROVIDED), AND A CONFLICT OCCURS IN THE SPECIFICATIONS, ON THE DRAWINGS, OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, CONTACT THE ARCHITECT. ALL REQUEST FOR CLARIFICATION TO THE ARCHITECT SHALL BE MADE IN WRITING. THE ARCHITECT'S RESPONSE SHALL BE MADE IN WRITING AND NO FORMAL INSTRUCTIONS SHALL BE GIVEN VERBALLY. 7) WHERE CLEAR DIMENSIONS ARE INDICATED, THIS SHALL MEAN CLEAR WIDTH FROM FINISHED WALL TO FINISHED

WALL OR CLEAR FLOOR AREA BETWEEN BUILDING COMPONENTS. 8) ALL FIRE RATED PARTITION OR WALL ASSEMBLIES SHALL EXTEND FROM THE FLOOR SLAB TO THE UNDERSIDE OF THE BUILDING STRUCTURE AND/OR DECK ABOVE. ALL PENETRATIONS IN RATED CONSTRUCTION SHALL BE PROPERLY SEALED TO

INSURE THE RATING IS MAINTAINED. 9) ALL FIRE RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLIES SHALL BE CONTINUOUS BETWEEN PARTITIONS AND/OR WALLS FOR THE SPACE OR HORIZONTAL AREA INDICATED. ALL PENETRATIONS IN RATED CONSTRUCTION SHALL BE PROPERLY SEALED

TO INSURE THE RATING IS MAINTAINED. 10) TYPICAL AND STANDARD DETAILS MAY BE PROVIDED IN THE DRAWINGS. IF A SPECIFIC DETAIL IS NOT PROVIDED FOR CONDITION OF FABRICATION AND/OR INSTALLATION, CONTACT THE ARCHITECT PRIOR TO PROCEEDING. 11) THE INSTALLATION OF MECHANICAL, PLUMBING AND ELECTRICAL ITEMS (INCLUDING UTILITIES, ROUGH-INS, SYSTEM COMPONENTS AND FINISHED FIXTURES) IN EXPOSED TO VIEW AREAS OR SPACES SHALL BE UNDERTAKEN WITH SKILL AND CRAFTMANSHIP TO PROVIDE A FINISHED CONDITION ACCEPTABLE TO THE ARCHITECT. ALL EXPOSED TO VIEW ITEMS SHALL

BE FINISHED WITH PAINT UNLESS OTHERWISE SPECIFIED TO BE PREFINISHED OR NOT TO BE PAINTED. 12) THESE GENERAL NOTES HAVE THE SAME AUTHORITY AS OTHER NOTES AND REFERENCES IN THE DRAWINGS OR SPECIFICATIONS AND SHALL NOT BE EXCLUDED IN THE EXECUTION OF THE WORK. THEY MAY REQUIRE COORDINATION BETWEEN VARIOUS TRADE CONTRACTORS. IN ADDITION TO THESE GENERAL NOTES, REFER TO DEMOLITION AND CONSTRUCTION NOTES SPECIFIC TO EACH DRAWING.

13) THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL REASONABLE SAFEGUARDS FOR SAFETY AND HEALTH, INCLUDING POSTING DANGER SIGNS AND OTHER WARNING AGAINST HAZARDS, AS WELL AS PROMULGATING SAFETY STANDARDS. 14) THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF MATERIALS 15) THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK PREMISE AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF ALL DEBRIS DAILY. THE WORK PREMISE SHALL BE CLEAN AT COMPLETION OF JOB AND BEFORE FINAL PAYMENT IS MADE. 16) THE CONTRACTOR SHALL TAKE CARE NOT DAMAGE EXISTING SURFACES AND SHALL BE RESPONSIBLE FOR RESTORING AREAS DAMAGED BY THE CONTRACTOR (MATERIALS, FINISHES, ETC.) TO THEIR ORIGINAL CONDITIONS. SURFACES SHALL BE REPAINTED TO MATCH EXISTING ADJACENT FINISHES.

Architectural General Notes:

A/C

ACI ACT

ADJ

AFF

ALT

BD

BLT BM BOT

C/C

CFM CG CIR CIP

CJ CLG CLO CLR

CONT

-AIR CONDITIONING -AMERICAN CONCRETE INSTITUTE -ACOUSTICAL CEILING TILE -ADJACENT -ABOVE FINISH FLOOR -ALTERNATE -ALUMINUM ALUM -AMERICAN SOCIETY OF TSTG. & MTLS. ASTM -BOARD BLDG -BUILDING -BOLT -BEAM -BOTTOM BRG -BEARING -CENTER TO CENTER CEM CF -CEMENT -CUBIC FEET -CUBIC FEET PER MINUTE -CORNER GUARD -CIRCLE, CIRCULAR -CAST-IN-PLACE -CONTROL JOINT -CEILING -CLOSET -CLEARANCE, CLEAR -CONCRETE MASONRY UNIT CMU COL -COLUMN -COMPRESSOR, COMPOSITE COMP CONC -CONCRETE

Standard Abbreviations:

-CONTINUOUS

CONSTR -CONSTRUCTION

WWF

-WELDED WIRE FABRIC

CORR CS CTR	-CORRUGATED -COUNTERSINK
DBL DEFS DEG DTL DF DIA DIM DN DS	-CENTER -DOUBLE -DIRECT APPLIED EXT FINISH SYSTEM -DEGREES -DETAIL -DRINKING FOUNTAIN -DIAMETER -DIMENSION -DOWN -DOWN -DOWNSPOUT
EA EJ ELEC ELEV ENCL EQ EQUIP	-DETAIL -DRAWING -EACH -EXPANSION JOINT -ELECTRICAL -ELEVATOR, ELEVATION -ENCLOSURE -EQUAL -EQUIPMENT
EWC EXH EX EXT FD FEB FEC FF	-ELECTRICAL WATERCOOLER -EXHAUST -EXISTING -EXTERIOR -FLOOR DRAIN -FIRE EXTINGUISHER W/ BRACKET -FIRE EXTINGUISHER IN CABINET -FINISH FLOOR
FHC FIN FL FLG FT FTG GA GALV GEN	-FIRE HOSE CABINET -FINISH -FLOOR -FLASHING -FOOT OR FEET -FOOTING -GAUGE -GALVANIZED
GND GWB GYP HC HDR HDRL HM HORZ	-GENERAL -GROUND -GYPSUM WALLBOARD -GYPSUM -HANDICAPPED ACCESSIBLE -HEADER -HANDRAIL -HOLLOW METAL HORIZONITAL
HGT ID IN INSUL INT JAN JB	-INSIDE DIAMETER (DIM.) -INSIDE DIAMETER (DIM.) -INCHES -INSULATION -INTERIOR -JANITOR -JAMB
JT K KD L LAM LAV LBS	-JOINT -KIPS (KILO POUND OR 1000LBS.) -KILN DRIED -STEEL ANGLE, LENGTH -LAMINATED -LAVATORY -POUNDS
LH LL LLH LLV LTL LTWT LVR	-LEFT HAND -LIVE LOAD -LONG LEG HORIZONTAL -LONG LEG VERTICAL -LINTEL -LIGHTWEIGHT -LOUVER -METER
MATL MAX MC MECH MTL MEZZ MFR MIN MISC MK MO MTD	-MATERIAL -MAXIMUM -MEDICINE CABINET -MECHANICAL -METAL -MEZZANINE -MANUFACTURER -MINIMUM -MISCELLANEOUS -MARK -MASONRY OPENING -MOUNTED
N NA NIC NOM NS NTS	-MOLLION -NORTH -NOT APPLICABLE -NOT IN CONTRACT -NOMINAL -NON SHRINK -NOT TO SCALE
OA OC OD OH OPP OPPH PCF	-OVERALL -ON CENTER -OUTSIDE DIAMETER -OVERHEAD -OPPOSITE -OPPOSITE HAND -POUNDS PER CUBIC FOOT
PKG PL PLAM PLYWD PNL PR PREFAB PREP PSF PSI PT PVC PVMT	-PARKING -PLATE -PLASTIC LAMINATE -PLYWOOD -PANEL -PAIR -PREFABRICATED -PREPARATION -POUNDS PER SQUARE FOOT -POUNDS PER SQUARE INCH -PRESSURE TREATED, PAINT, POINT -POLYVINYL CHLORIDE -PAVEMENT
QC QT REF REINF REQD REV RH RM	-QUALITY CONTROL -QUARRY TILE -REFERENCE -REINFORCED, REINFORCEMENT -REQUIRED -REVISION -RIGHT HAND -ROOM
RO SAN SC SECT SEW SF SGL SIM SJ	-ROUGH OPENING -SANITARY -SOLID CORE -SECTION -SEWER -SQUARE FEET -SINGLE -SIMILAR -SAWED JOINT
SPKLR SQ SST STD STL STOR STRUCT SUSP TBD	-SPRINKLER -SQUARE -STAINLESS STEEL -STANDARD -STEEL -STORAGE -STRUCTURAL -SUSPENDED -TO BE DETERMINED
TEL TEMP T&G THK TOB TOC TOF TOS TS TV TYP	-TELEPHONE -TEMPORARY, TEMPERATURE -TONGUE & GROOVE -THICK -TOP OF BEAM -TOP OF CONCRETE -TOP OF FOOTING -TOP OF STEEL -STRUCTURAL TUBE STEEL -TELEVISION -TYPICAL
UNF UON UR VCT VB VERT VEST VFY	-UNFINISHED -UNLESS OTHERWISE NOTED -URINAL -VINYL COMPOSITION TILE -VAPOR BARRIER -VERTICAL -VESTIBULE -VERIFY
VOL VT W/C WD W/O WP	-VOLUME -VINYL TILE -WITH -WATER CLOSET -WOOD -WITHOUT -WATERPROOF, WORKING POINT

	CS	Cover Sheet
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	CIVIL COVER	SHEET Eviating Conditions
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((C-2.1 C-3	Sight Distance Plan
Ę	C-3.1 C-3.2	Šidewalk & Driveway Profiles
ζ(C-4 C-5	Vehicle Tracking Plan
	T-1	Tree Debit/Credit
	U-1 D-1	Utility Plan Construction Details
	I A-1	Landscape Plan
	LA-2	Landscape Detail Sheet
	IR-1 IR-2	Irrigation Plan Irrigation Details
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	A6.3 A6.4	Exterior Storefront Elevations and Details Exterior Storefront Details
	A6.5	Exterior Storefront Details
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	LF003	Laboratory Accessories
	LF102	Enlarged Laboratory Furnishing Plan Level 2
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	LF603	Interior Elevations
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	P4.1	Plumbing Flow Diagrams
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	P7.1 P7.2	Plumbing Riser Diagrams - Waste and Vent - Level 1 Plumbing Riser Diagrams - Waste and Vent - Level 2
	P7.3	Plumbing Riser Diagrams - Domestic Water & HPW - Level 1 Plumbing Riser Diagrams - Domestic Water & HPW - Level 1
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GENERAL

Roof Fire Protection Plan

Fire Protection Details

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T7.3	AV One Line Diagrams
T8.1	Technology Details
T8.2	Technology Details
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– PE&S,I. **–**











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GRAPHIC SCALE

1 inch = 30 ft.

GENERAL NOTES:

LEGEND

1. ALL PLANT MATERIAL SHALL BE NO. 1 OR BETTER AS DESCRIBED IN THE "GRADES AND STANDARDS FOR NURSERY PLANTS", FIFTH EDITION, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, TALLAHASSEE, FLORIDA.

ADDENDUM 4, 2-9-22

- QUANTITIES ON LANDSCAPE PLAN ARE MINIMUM ONLY. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN QUANTITY TAKE-OFF, AND SHALL PROVIDE ALL PLANT MATERIAL REQUIRED TO FILL PLANT BED AREA AT SPACING ON PLANT SCHEDULE.
 SPECIFIED HEIGHT, SPREAD, AND VERIFICATION OF THE CALIPER OF PLANT MATERIAL
- SHALL TAKE PRECEDENCE AND MUST BE MET. 4. ALL SOILS MUST BE TREATED WITH PRE AND POST- EMERGENTS TO PROVIDE
- WEED-FREE PLANTING BEDS FOR A MINIMUM OF 90 DAYS FROM DATE OF FINAL COMPLETION.
- 5. A MINIMUM OF 3" THICK PINE STRAW MULCH SHALL BE PLACED WITHIN ALL LANDSCAPE AREAS UNLESS OTHERWISE NOTED.
- 6. ANY PLANT SIZE AND /OR SUBSTITUTION SHALL BE REVIEW AND APPROVED BY PROJECT LANDSCAPE ARCHITECT.
- 7. CONTRACTOR TO STAKE LOCATION FOR ALL TREES ON PLANS FOR APPROVAL. 8. CONTRACTOR SHALL TEST SOIL pH AND CONDITION AND AMEND AS REQUIRED TO
- ACHIEVE PROPER SOIL CONDITIONS AND ENSURE PLANT MATERIAL SURVIVABILITY.

20" OAK	ÉXISTING TREE TO REMAIN	\bigcirc	WAX MYRTI F
/ 20" OAK	EXISTING TREE TO BE MITIGATED FOR IMPACTS	\odot	SWEET VIBURNUM
	SELECTIVE CLEARING AREA	0	AUTUMN IVORY AZALEA
\bigcirc	LIVE OAK	0	SHI SHI CAMELIA
	RED MAPLE	0	DWARF BOTTLEBRUSH
<u>%_</u> }		*	CAST IRON PLANT
	TULIP POPLAR		MUHLY GRASS
٠	RIVER BIRCH		EVERGREEN GIANT LIRIOPE
\bigcirc	SWEET BAY	51	
×	RED BUD		LANCE-LEAF TICKSEED
(EAGLESTON HOLLY		SOD

$\mathbf{HIC} \mathbf{SCALE}$ $\mathbf{HIC} \mathbf{SCALE}$ \mathbf{I}	PLANNING GROUP
PLANT MATERIAL PROVIDE E OF FINAL IN ALL LANDSCAPE ROVED BY PROJECT APPROVAL. REQUIRED TO SURVIVABILITY.	LAND USE PLANNING LANDSCAPE ARCHITECTURE P.O. Box 27601 Panama City Beach, Florida 32411 Ph. 850.235.3997 gtullo@tulloplanning.com www.tulloplanning.com
M NZALEA RUSH T	PROJECT NAME NORTH FLORIDA INNOVATIONS LABS CLIENT NAME CLIENT NAME INNOVATION PARK
TANA (SEED	REVISIONS 2-04-2022 ENVIRONMENTAL PERMIT COMMENT Addendum #4
TREE CATEGORY- CREDITTREE CREDITA -1 CREDIT EA.20A -1 CREDIT EA.4	DATE 12-09-2021 CONTRACT # 103.000 DRAWN BY GMTW The Drawings. Specifications and other documents Project are instruments of Tulio Planning Group, LLC to trus solito Planning Group, LLC shall be deemed the author of these documents and shall relain all common law, statutory and other reserved rights, including the copyright.
D - 6 CREDIT EA. 42 D - 6 CREDIT EA. 72 C - 5 CREDIT EA. 40 N D - 6 CREDIT EA. 60 C - 5 CREDIT EA. 70 TOTAL PLANTED TREE CREDITS: 308	SHEET TITLE LANDSCAPE PLAN 100% CONSTRUCTION DOCUMENTS
	GINA TULLO-WILLIAMS FL. REG. NO. LA0001546 SEAL
	LA.1

ENCLATURE	COMMON NAME	SIZE / SPACING	CREDIT	CREDIT
	FLORIDA FLAME MAPLE	14'-6' HT, 3" CAL, 45 GAL	A -1 CREDIT EA.	20
	RIVER BIRCH	8'-9' x 5'-6', 2" CAL, 45 GAL	A -1 CREDIT EA.	4
NSIS	EASTERN REDBUD	8'-9' x 4', 2" CAL, 30 GAL	D - 6 CREDIT EA.	42
TA 'EAGLESTON'	EAGLESTON HOLLY	8'-10' HT, 2" CAL, 30 GAL	D - 6 CREDIT EA.	72
TULIPIFERA	TULIP POPLAR	12'-14' HT, 3" CAL, FIELD GROWN	C - 5 CREDIT EA.	40
INIANA	SWEET BAY MAGNOLIA	9' HT X 4' SPD, 2.5" CAL, FIELD GROWN	D - 6 CREDIT EA.	60
NIANA 'CATHEDRAL'	CATHEDRAL LIVE OAK	15' HT X 9' SPD. 3" CAL, 65 GAL	C - 5 CREDIT EA.	70
			TOTAL PLANTED	000
TIOR	CAST IRON PLANT	3 GAL, 36" OC	TREE CREDITS:	308
NQUA	LIGHT PINK SHI SHI	3 GAL, 36" OC		·
TTLE JOHN'	DWARF BOTTTLEBRUSH	1 GAL, 30" OC		
CAPILLARIS	PINK MUHLY GRASS	3 GAL, 36" OC, FULL		
RA	WAX MYRTLE	15 GAL, SEE PLAN		
N 'ROBLEV'	AUTUMN IVORY	3 GAL, 36" OC		
RATISSIMUM	SWEET VIBURNUM	7 GAL, 48" OC		
	COONTIE	3 GAL, 36" OC		
ICEOLATA	LANCE-LEAF TICKSEED	1 GAL, 24" OC, 3-4 STEMS		
ANICA	VARIGATED FLAX LILY	3 GAL, 30" OC, FULL		
રા	BIG BLUE LIRIOPE	1 GAL, 30" OC		
RA 'ANNE MARIE'	ANNE MARIE LANTANA	1 GAL, 30" OC		
	ZOYSIA SOD	12" X 24", AREAS SHOWN ON PLAN		
	PINE STRAW	3" MIN DEPTH, INCLUDE SELECTIVE CLEARING AREA		





GRAPHIC SCALE



LEGE	END	
<u>I.D.</u>	DESCRIPTION	SPECIFICATION
	MAINLINE	2" SCH 40 MAINLINE
	LATERAL	Class 200 Solvent Weld
[]	SLEEVING	Schedule 40 PVC
\oplus	DRIP CONTROL ZONE KIT A INSTALLED IN (12") RECTAN	SSEMBLY W/ DECODER - 25 PSI IGULAR VALVE BOX WITH LID.
	PLD TUBING BROWN 10121 SLEEVING	00
©	HUNTER HCC-800 - ICM-220 TWO-WIRE WALL MOUNT A WEATHER STATION	0 UTOMATIC CONTROL TIMER WITH
S	RAIN SENSOR	
•	CONTROL VALVE ASSEMBL SHOWN PER PLAN) INSTALI VALVE BOX WITH LID.	Y W/ DECODER (SIZES AS LED IN (12") RECTANGULAR
#4	-ZONE PROPOSED IRRIGATIO	ON ZONE
GPM	VALVE SIZE	
NOTE:	IRRIGATION SYMBOLS ARE G	RAPHIC REPRESENTATIONS ONL'

NOTE: IRRIGATION SYMBOLS ARE GRAPHIC REPRESENTATIONS ONLY. ALL SYSTEM COMPONENTS MUST BE WITHIN PROPERTY R/W AND AVOID ALL VERTICAL STRUCTURES.

IRRIGATION SCHEDULE

ID	MANF	SPECIFICATION	PSI	GPM
® € ⊕	Hunter Hunter Hunter	PROS-04-CS-515 PROS-04-SS-530 PROS-04-SS-918	30 30 30	.65 1.30 1.72
	Hunter Hunter	BUBBLERS MSBN-10F BUBBLERS MSBN-20F	30 30	1.00 2.00
⊾ ▲ ♣	Hunter Hunter Hunter Hunter	PROS-04-6QA PROS-04-6TA PROS-04-6HA PROS-04-6FA	30 30 30 30	.37 .44 .60 1.26
ଡଡ ଦେକ	Hunter Hunter Hunter Hunter Hunter Hunter	PROS-04/12-8QA PROS-04/12-8QA PROS-04/12-8TA PROS-04/12-8HA PROS-04/12-8TQA PROS-04/12-8FA	30 30 30 30 30 30	.25 .44 .59 .88 1.32 1.76
000000	Hunter Hunter Hunter Hunter Hunter	PROS-04-10QA PROS-04-10TA PROS-04-10HA PROS-04-10TQA PROS-04-10FA	30 30 30 30 30	.50 .67 1.00 1.50 2.00
© •	Hunter Hunter Hunter Hunter	PROS-04-12QA PROS-04-12TA PROS-04-12HA PROS-04-12FA	30 30 30 30	.63 .84 1.26 2.52
	Hunter Hunter Hunter Hunter	PROS-04-15QA PROS-04-15HA PROS-04-15TA PROS-04-15FA	30 30 30 30	.93 1.24 1.86 3.72
1.6	Hunter	PGP-ADJ-B-2.0 4LA GRAY (24' R) 5LA GRAY (27' R)	40 40	1.7 1.9
3.9	Hunter	PGP ULTRA 4.5LA GRAY (32' R)) 40	3.9

PIPE SIZE TABLE

IRRIGATION ZONE DEMAND GALLONS PER MINUTE (GPM)	MINIMUM PIPE SIZE
0 - 6	3/4"
7 - 11	1"
12 - 19	1 1/4"
20 - 26	1 1/2"
27 - 42	2"
43 - 60	2 1/2"
61 - 90	3"

REFER TO EACH IRRIGATION ZONE ON PLAN DRAWINGS FOR ZONE GPM







		System NC). F-A-1020
Classified by	ANSI/U	L1479 (ASTM E814)	CAN/ULC S115
Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115	F Rating — 2 Hr		F Ra
ľ	T Rating — 0 Hr		FT Ra
			FH Ra
			FTH Ra



- * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),
- respectively.



7.5/8" MIN

T RATINGS - 0HR

SECTION A - A

E. IRON PIPE - NOM. 4 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.

3. FILL, VOID, AND CAVITY MATERIALS - CAULK OR PUTTY - MIN, 1/2 IN, DIAMETER BEAD OF CAULK OR PUTTY APPLIED CONTINUOUSLY AROUND THE PENETRANT ON THE WALL SURFACES ON BOTH

F RATINGS - 1 AND 2 HR (SEE ITEM 3)

T RATINGS - 1 AND 2 HR (SEE ITEM 3)

SECTION A - A

entire surface of Classified veneer baseboard. Joints reinforced.

*Bearing the UL Classification Mark.

S-12 panhead steel screws. Not for use with Type FRX gypsum panels.

6. Furring channel - (Optional-Not Shown) - Resilient 25 MSG galv steel furring channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type

Seal:	Consultant:	Client:	PHASE:	DRAWN: F	EVIEWED:	DATE: ID:	REVISION:	DRAWN:	REVIEWED:	DATE:	THESE DRAWINGS AND RENDERINGS ARE
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28′ R-----⁄

120' HAMMERHEAD

TYP.'



Fire Department Access Information

ACCESS ROADS MUST BE WITHIN 50 FEET OF AT LEAST ONE EXTERIOR DOOR (FFPC 18.2.3.2.1). ANY PORTION OF THE FIRST STORY EXTERIOR WALL MUST BE WITHIN 450 FEET OF AN ACCESS ROAD (FFPC 18.2.3.2.2.1). ACCESS ROADS MUST BE AT LEAST 20 FEET WIDE (FFPC 18.2.3.5.1.1). ACCESS ROADS MUST HAVE A VERTICAL CLEARANCE OF 13'-6" (FFPC 18.2.3.5.1.2) 18.2.3.5.1.2). 18.2.3.5.1.2). DEAD-END ROADS EXCEEDING 150 FEET MUST BE PROVIDED WITH APPROVED TURNAROUND PROVISIONS (FFPC 18.2.3.5.4). EXAMPLES OF ACCEPTABLE TURNAROUND PROVISIONS, ACCORDING TO INTERNATIONAL FIRE CODE, APPENDIX D: - 96'----TYP.' -28′ R 26′ — TYP.′ <u>→</u> 20′ 96' DIAMETER CUL-DE-SAC MINIMUM CLEARANCE AROUND A FIRE 60-FOOT "Y" HYDRANT 28' R-



ACCEPTABLE ALTERNATIVE TO 120' HAMMERHEAD

NORTH FLORIDA INNOVATION LABS CODE SUMMARY

GENERAL INFORMATION

Location 1729 W. Paul Dirac Drive

Tallahassee, FL 32310

Authority Having Jurisdiction City of Tallahassee Building Inspections / Permitting

Project Description 2-Story Mixed-Use Assembly, Laboratory, and Industrial Use Building

Code Approach Summary Type III-B Construction, Fully Sprinklered with addressable fire alarm system

APPLICABLE CODES Florida Building Code, Building (FBC-B) Florida Building Code, Accessibility (FBC-A)	7 th Edition (2020) 7 th Edition (2020)	
Florida Building Code, Mechanical (FBC-M)	7 th Edition (2020)	}
Florida Building Code, Fuel Gas (FBC-FG)	7^{th} Edition (2020) 7^{th} Edition (2020)	3.
Florida Building Code, Energy Conservation	7 th Edition (2020)	$\left(\begin{array}{c} 1 \\ 1 \end{array} \right)$
Florida Fire Prevention Code (FFPC)	7 th Edition	3
National Electrical Code (NEC)	2017 Edition	Ź
	······	~
USE AND OCCUPANCY CLASSIFICATION		

Ose Group: A-3, B and F-1 Occupancy Classification: Nonseparated Mixed-Use per Section 508.3

CONSTRUCTION CLASSIFICATION

Building: Type III-B Fire Rating Requirements (Table 601)		per414.2.
Primary Structure	0 Hour	-
Bearing Walls (Exterior)	2 Hour	
Bearing Walls (Interior)	0 Hour	
Nonbearing Walls and Partitions Exterior	0 Hour ¹	
Nonbearing Walls and Partitions Interior	0 Hour	
Floor Construction and Assoc. Secondary Members	0 Hour	2 hour**
Roof Construction and Assoc. Secondary members	0 Hour	

¹ (Per note e, Table 602 – fire separation greater than 30')

**414.2.4 – The required fire-resistance rating for fire barriers shall be in accordance with Table 414.2.2. (1-hour). The floor assembly of the control area and construction supporting the floor of the control area shall have a fire-resistance rating of not less than 2-hours.

_	BUILDING HEIGH	TAND AREAS						
	Allowable Building Building Type III-E Allowable Height: Allowable Area: If = [F/P - 0.25] w/3 0.50 x 28,500 = 14,	g Height and Areas 3 / Group A-3 (most 30 = If [504/674 or 07 250 + 28,500 =	restrictive occupancy) 3 stories, 75' 28,500 (total building) 75 – 0.25] x1 = 0.5					
$\langle \rangle$	Allowable Area Fro Actual Total Buildin	ntage increase: g Area:	42,750 (total building) 39,330 GSF					
	Building Height as	designed:	2 stories, 38'-4"					
	AREA SUMMARY							
	Level 1 st Floor	Indoor 20,610 GSF	Outdoor 1,585 GSF (patio) 1,425 GSF (loading dock, 880 GS					
	2 nd Floor	18,720 GSF	under roor)					
	Total	39,330 GSF	3,010 GSF					
	EGRESS REQUIREMENTS							

Exit Width Factors Sprinklers & Emergency Voice Alarm Communication 0.3"/person (40 people/ft) Stairs

Doors, Level Surface, Ramps 0.2"/person (60 people/ft)

Maximum Exit Access Travel Distance Group A-3 Occupancy

Group A-3 Occupancy	250'
Group B Occupancy	300'
Group F-1 Occupancy	250'
Maximum Common Path of Trave	I Distance
Group A-3 Occupancy	75'

100' Group B Occupancy 100' Group F-1 Occupancy

LIFE SAFETY SYTEMS

Active Fire Alarm – Sprinkler system with water flow switch monitoring Fire Alarm Control Panel Remote Annunciator Panel Smoke Detection Exit Signs – Emergency Generator Emergency Lights – Emergency Generator Backup Power – Emergency Generator Suppression – Standpipe Suppression – Automatic Fire Extinguishers – Per FBC & NFPA 10 Pull Stations Two-way Communication Passive Corridor Ratings 0 Hour Interior Exit Stairs 1 Hour (FBC 1023.2 < 4 stories)

1 Hour (FBC 713.4 < 4 stories) Shafts

PLUMBING FIXTURE COUNTS

WATER CLOSETS: 5 MALE / 7 FEMALE LAVATORIES: 4 MALE / 4 FEMALE DRINKING FOUNTAINS: 4 SERVICE SINKS:

OCCUPANT LOAD

<u>Level 1</u> Assembly (A-3): Event Room 1279 NSF / 7 = 183 occupants Break Room 875 SF /15 = 58 occupants Conf. Rm #1 612 NSF / 15 = 41 occupants* <u>Conf. Rm #2</u> 232 NSF/ 15 = 16 occupants* 2,998 nsf 298 occupants Total (14.5% of floor area) Industrial/Factory (F-1): Metal Shop 853 NSF/100 = 9 occupants Fab Shop445 NSF/100 = 5 occupants Shipping 507 NSF/200 = 3 occupants Total 1,805 nsf 17 occupants (11.4 % of floor area) Business (B): 15,797 GSF / 150 = 105 occupants** Level 2 Assembly (A-3): Break Room 704 NSF / 15 = 47 occupants* Conf. Rm 212 NSF / 15 = 14 occupants* Business (B): 17,960 GSF / 150 = 120 occupants** Occupant Load by Occupancy: 359 Assembly (A-3):

225 Business (B): Industrial/Factory (F-1): 17

*Not a true "assembly occupancy" load<50 occupants **the GSF number assumes the subtraction of the net square foot areas identified as assembly

L NT	PROVIDED	COMMENTS
	R-28	R-28 - 5" POLYISO MIN.
i	R-21.4 + R-5ci	
		R-0.68 - INSIDE AIR FILM
		R-0.45 - 5/8 GWB
		R-19 - 6"FIBERGLASS BATT INSULATION
		R-5.0ci - POLYISO CONTINUOUS
		R-0.61 - METAL WALL PANEL
		R-0.17 - EXTERIOR AIR FILM
	NR	
	NR	
	R-8.1 MIN.	SPECIFIED PER SPEC. SECTION 083323

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DRAWN:	RS, KS, AK, EE									
ID: REVISION:	1 ADDENDUM 4									
DATE:	07/30/21	10/07/21	12/09/21				_			
REVIEWED:	C. WHITLOCK	C. WHITLOCK	C. WHITLOCK							
DRAWN:	RS, KS, AK, EE	RS, KS, AK, EE	RS, KS, BG, AK, EE							
PHASE:	DESIGN DEVELOPMENT	50% CONSTRUCTION DOCUMENTS	100% CONSTRUCTION DOCUMENTS				_			
Client:		LEON COUNTY R&D AUTNOLITY		I allanassee, Florida			Job Title:	Nouth Florido Issocias I ako		
Consultant:							21414		100% Construction Documents	
Seal:							Project #:		Phase:	



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B



	Flammable and	Quantities in Use		Quantities in Use and	Storage
Unit	Combustible	Maximum Quantity per 100 sq ft	Maximum Quantity	Maximum Quantity per 100 sq ft	Maximum Quantity
Class	Liquid Class	of Laboratov Unit (gal)	per Laboratory Unit (gal)	of Laboratov Unit (gal)	per Laboratory Unit (gal)
ire hazard)	I	5	300	10	480
	I, II, and IIIA	10	400	20	800

Per Control Area (percent)	Areas Per Floor	for Fire Bar
	\sim	
75	$\geq 2 \langle \rangle$	1
100	$\geq 3 \langle 2 \rangle$	1
	\succ \downarrow	





	Flammable and	Quantities in Use		Quantities in Use and	Storage
Unit	Combustible	Maximum Quantity per 100 sq ft	Maximum Quantity	Maximum Quantity per 100 sq ft	Maximum Quantity
Class	Liquid Class	of Laboratov Unit (gal)	per Laboratory Unit (gal)	of Laboratov Unit (gal)	per Laboratory Unit (gal)
	•				, , ,
	1	5	300	10	480
ire hazard)	I, II, and IIIA	10	400	20	800

Per Control Area (percent)	Areas Per Floor	for Fire Ba
75 100	$ \begin{array}{c} 2\\ 3 \end{array} $	1 1
	· · · · ·	





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 2'-0"	6'-0"	2'-8"	<u>6'-0"</u>	2'-0"	ر "4-1 م	b 5'-4"	<u>2'-8"</u>	<u>, 2'-8"</u>	2'-8"	2'-0"	u 1'-4"	2'-0"	y 3'-4"	"4-4 م	<u>y 3'-4"</u>
$\sum \propto 1$		$\Sigma \ge \Box$						$\geq \geq 1$			$\sum < \zeta$				
					$\sum \leq$				223			⊇≍्य			
						<u>이 같은 것은 것이 가지 않지 않</u> 같은 것은 것은 것이 같은 것이 같은		NGLED CORNI							
	<u> 등 가 가 가 가 가 있는 것 것 같아.</u> 				1			WALL - SEE F	LAN.						
	는 지금 것을 가지 않는다. 전 전에 있는다. 같이 것 같은 것은 것을 제공하는 것을 가지.		2012년 - 1912년 - 1912년 1912년 - 1912년 - 1912년 1912년 - 1912년 -						\rightarrow	<u></u>	\.	XX 977		+	
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BIMcloud: Lewis-BIM - BIMcloud Basic for ARCHICAD 24/21414 NFIL Teamwork DD Model3:34 PM

Con	STRUCTION NOTE ON DI ANS		WINGS	EOF, CADD	TECTS:	USE,	RITTEN	CT IS	ED ON	NG ON	
1	CONCRETE FLOORS TO BE POLISHED PRIOR TO PLACEMENT OF LT. GA. METAL FRAMED PARTITIONS. EXECUTE SLAB CONTROL JOINTS WITH CARE. PROTECT POLISHED CONCRETE FLOORS FROM CONSTRUCTION DAMAGE.		ERVICE. THE DRA	COPIES THERE	PERTY OF ARCHI		XCEPT BY WF	THE ARCHITEC	E DIRECTLY PLAC	BIT OR RENDERII AND SHALL NO	se documents.
2	EXPOSED STEEL COLUMN WITH 2-HOUR INTUMESCENT FIRE PROTECTION. FINISH TOP COAT PER FINISH SCHEDULE WALL-MOUNTED DIGITAL DISPLAY - OWNER PROVIDED, CONTRACTOR TO		ITS OF SE		THE PROI	WHITLOC		T WITH	IRUE AS IF	VING EXHI UMENT /	ROM THES
	PROVIDE FIRE TREATED WOOD BLOCKING FOR SUPPORT AT LOCATIONS IDENTIFIED ON PLANS. COORDINATE LOCATIONS WITH ELECTRICAL/DATA DWGS AND OWNER PROVIDED CUT-SHEETS FOR DISPLAY MOUNTS.		NSTRUMEN	ND ASS	ILES, ARE	EWIS +		GREEMEN	HALL BE 1	ACH DRAV	REMOVED F
4	WHITEBOARD BOD: CLARIDGE GLASS BOARD, STAND-OFF EDGE MOUNT, COLOR TO BE SELECTED BY ARCHITECT FROM MFR'S STANDARD RANGE. 4a: 48"h x 72"w 4b: 48"h x 84"w 4c: 36"h x 48"w	VTE:	10/22 IN	09/22 A				Ā	- s		к
5	AUTOMATIC DOOR OPENER PEDESTAL - SEE SPECIFICATIONS FOR BASIS OF DESIGN.	ä	CK 01	CK 02							
6 7	3-COMPARTMENT TRASH AND RECYCLING CONTAINERS - BY OWNER. MOP / FLOOR SINK 30" X 30" WITH MOP BRACKET - SEE PLUMBING PLANS FOR BASIS OF DESIGN PRODUCTS.	REVIEWE	C. WHITLO	C. WHITLO							
8	RECESSED ALUMINUM MAILBOXES - SEE INTERIOR ELEVATIONS FOR LAYOUT, SIZE, MAILBOX QUANTITY, AND FINISH. UNIT 1 BASIS OF DESIGN: SALISBURY INDUSTRIES 4C MODEL #3716D-20 UNIT 2 BASIS OF DESIGN: SALISBURY INDUSTRIES CUSTOM 4C MODEL.	:NN	s, ee, ak, bg	S, AK, EE							
9 10	EXPOSED STEEL COLUMN - PAINTED. INTERIOR WALL MOUNTED BIKE RACKS - BASIS OF DESIGN: BIKESOLUTIONS - 6@ MINI-MUM VERTICAL BIKE HANGER WITH LOCKABLE CABLE, BLACK OXIDE MOUNTING HARDWARE. 2@ THE FATTY FOR FAT BIKES BIKE HANGER WITH LOCKABLE CABLE, BLACK OXIDE MOUNTING HARDWARE. SEE INTERIOR ELEVATIONS FOR SPACING	DRA	RS, K	RS, K							
11 12	FLOOR DRAIN - SEE PLUMB DWGS. SET DRAIN COVER FLUSH WITH FINISH FLOOR. FLOOR CLEANOUT - SEE PLUMBING DWGS. SET COVER FLUSH WITH FINISH FLOOR.	EVISION:	DDENDUM 1	DENDUM 4							
13 14	DRINK VENDING - OWNER PROVIDED DRY SNACK VENDING - OWNER PROVIDED	E	1 AI	2 AI							
15 16	MICROWAVE - OWNER PROVIDED REFRIGERATOR - OWNER PROVIDED	DATE:	07/30/21	10/07/21	12/09/21						
17	COFFEE MAKER - OWNER PROVIDED	EWED:	ШОСК	ITLOCK	ITLOCK						
19	PROVIDE RATED JUNCTION BOXES WITH RATED PENETRATIONS FOR ALL LOCATIONS WITHIN FIRE RATED ASSEMBLIES - SEE LIFE SAFETY PLAN.	REVIE	EE C. WH	EE C. WH	AK, EE C. WH				-		
21	BUILT-IN BOOTH SEATING - SEE INTERIOR ELEVATIONS	DRAWN:	RS, KS, AK,	RS, KS, AK,	RS, KS, BG,						
23	SEMI-RECESSED CABINET AND FIRE EXTINGUISHER - SEE			Ľ.							
24 25	CLOSET SHELVING. SEE MILLWORK ELEVATIONS: B11/A5.4 KNOXBOX - MODEL 3200 (KNOXBOX.COM OR APPROVED EQUAL)			TS	VTS						
	RECESSED WITH UL LISTED TAMPER ALERT SEAL & 1/2" HINGED DOOR W/ STAINLESS STEEL HINGE, 1/4" STEEL HOUSING, WEATHER RESISTANT FINISH.		Ĭ	DOCUMEN	N DOCUMEN						
26	VINYL-COATED CHAIN LINK FENCED AND COVERED CAGE. CONSTRUCT 5'X10'X10' HIGH. INCLUDE GALVANIZED FRAME EMBEDDED IN CONC. DECK, WITH GATE.		DEVELOPME	NSTRUCTION	NSTRUCTIO						
28	CONTRACTOR. GYPSUM WALL NICHE, SEE INTERIOR ELEVATION.	PHASE	DESIGN	50% CO	100% CC						
	INTE TREDED TO FARINA DE LEVATION - CAECK AG AI MERICO SIDERTON TELEVATIONS FOR REFERENCE INTE MINE MINES ES LARGE REPROTECTED AS ETHER SPRAY APPLIED OR SIDURSCENT COATED FIRE-RESISTANCE IN ACCORDANCE WITH FOS A14.2.4. TYPICAL DETAILS FOUND ON G1.3	Client:		LEON COUNTY R&U AUTNOTITY		I allanassee, Florida			Job Title:	North Florido Ippoviotion I abo	
		Consultant:							-		Construction Documents
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dcloud: Lewis-BIM - BIMcloud Basic for ARCHICAD 24/21414 NFIL Teamwork DD Model3:34 PN

REPRESENTS NOTE ON PLANS		WINGS	EOF CADD	TECTS:	n for	RITTEN				
CONCRETE FLOORS TO BE POLISHED PRIOR TO PLACEMENT OF LT. GA. METAL FRAMED PARTITIONS. EXECUTE SLAB CONTROL JOINTS WITH CARE. PROTECT POLISHED CONCRETE FLOORS FROM CONSTRUCTION DAMAGE.		VICE. THE DRA	COPIES THERE	ERTY OF ARCHI	, P.A. THEIR REPRODUCTIOI	CEPT BY WI	YRIGHT NOTIFIC	DIRECTLY PLAC		DOCUMENTS.
EXPOSED STEEL COLUMN WITH 2-HOUR INTUMESCENT FIRE PROTECTION. FINISH TOP COAT PER FINISH SCHEDULE WALL-MOUNTED DIGITAL DISPLAY - OWNER PROVIDED. CONTRACTOR TO PROVIDE FIRE TREATED WOOD BLOCKING FOR SUPPORT AT LOCATIONS IDENTIFIED ON PLANS. COORDINATE LOCATIONS WITH ELECTRICAL/DATA DWGS AND OWNER PROVIDED CUT-SHEETS FOR DISPLAY MOUNTS.		NSTRUMENTS OF SER	AND ASSOCIATED (NCLUDING ELECTRON	FILES, ARE THE PROPR	.EWIS + WHITLOCK REPRESENTATION OR	ANY PURPOSE EX	PROHIBITED. THIS COP	SHALL BE TRUE AS IF		АЕМОУЕЛ КОМ І НЕ ВЕ
WHITEBOARD BOD: CLARIDGE GLASS BOARD, STAND-OFF EDGE MOUNT, COLOR TO BE SELECTED BY ARCHITECT FROM MFR'S STANDARD RANGE. 4a: 48"h x 72"w 4b: 48"h x 84"w 4c: 36"h x 48"w	DATE:	01/10/22	02/09/22							
AUTOMATIC DOOR OPENER PEDESTAL - SEE SPECIFICATIONS FOR BASIS OF DESIGN.	ä	ъ	сĸ							
3-COMPARTMENT TRASH AND RECYCLING CONTAINERS - BY OWNER. MOP / FLOOR SINK 30" X 30" WITH MOP BRACKET - SEE PLUMBING PLANS FOR BASIS OF DESIGN PRODUCTS.	REVIEWE	G C. WHITLOO	C. WHITLO							
LAYOUT, SIZE, MAILBOX QUANTITY, AND FINISH. UNIT 1 BASIS OF DESIGN: SALISBURY INDUSTRIES 4C MODEL #3716D-20 UNIT 2 BASIS OF DESIGN: SALISBURY INDUSTRIES CUSTOM 4C MODEL. EXPOSED STEEL COLUMN - PAINTED.	DRAWN:	RS, KS, EE, AK, B	RS, KS, AK, EE							
INTERIOR WALL MOUNTED BIKE RACKS - BASIS OF DESIGN: BIKESOLUTIONS - 6@ MINI-MUM VERTICAL BIKE HANGER WITH LOCKABLE CABLE, BLACK OXIDE MOUNTING HARDWARE. 2@ THE FATTY FOR FAT BIKES BIKE HANGER WITH LOCKABLE CABLE, BLACK OXIDE MOUNTING HARDWARE. SEE INTERIOR ELEVATIONS FOR SPACING FLOOR DRAIN - SEE PLUMB DWGS. SET DRAIN COVER FLUSH WITH FINISH			_							
FLOOR. FLOOR CLEANOUT - SEE PLUMBING DWGS. SET COVER FLUSH WITH FINISH FLOOR.	REVISION:	ADDENDUM 1	ADDENDUM 4							
DRY SNACK VENDING - OWNER PROVIDED	ë	-	2							
MICROWAVE - OWNER PROVIDED	DATE:	07/30/21	10/07/21	12/09/21						
COFFEE MAKER - OWNER PROVIDED ISLAND COUNTERTOP AND SEATING - SEE INTERIOR ELEVATIONS.	REVIEWED:	: WHITLOCK	: WHITLOCK	WHITLOCK						
PROVIDE RATED JUNCTION BOXES WITH RATED PENETRATIONS FOR ALL LOCATIONS WITHIN FIRE RATED ASSEMBLIES - SEE LIFE SAFETY PLAN. CORNER GUARD - SEE SPECIFICATIONS BUILT-IN BOOTH SEATING - SEE INTERIOR ELEVATIONS	N: R	, AK, EE C	, AK, EE C	, BG, AK, EE C						
SEMI-RECESSED CABINET AND FIRE EXTINGUISHER - 1-HR FIRE-RATED, - SEE SPECIFICATIONS SEMI-RECESSED CABINET AND FIRE EXTINGUISHER - SEE	DRAW	RS, KS	RS, KS	RS, KS						
SPECIFICATIONS CLOSET SHELVING. SEE MILLWORK ELEVATIONS: B11/A5.4 KNOXBOX - MODEL 3200 (KNOXBOX.COM OR APPROVED EQUAL) RECESSED WITH UL LISTED TAMPER ALERT SEAL & 1/2" HINGED DOOR W/			ENTS	AENTS						
STAINLESS STEEL HINGE, 1/4" STEEL HOUSING, WEATHER RESISTANT FINISH. VINYL-COATED CHAIN LINK FENCED AND COVERED CAGE. CONSTRUCT 5'X10'X10' HIGH. INCLUDE GALVANIZED FRAME EMBEDDED IN CONC. DECK, WITH GATE.		ELOPMENT	UCTION DOCUMI	RUCTION DOCUN						
2'x2' METAL ACCESS PANEL - COORDINATE LOCATION WITH MECHANICAL CONTRACTOR. GYPSUM WALL NICHE, SEE INTERIOR ELEVATION.	PHASE:	DESIGN DEVE	50% CONSTR	100% CONSTI						
	Client:				I allanassee, Florida			Job Title:	North Florida Innovation Labe	
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A1.2





1 Roof Plan

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REVIEWED:	C. WHITLOCK	C. WHITLOCK	C. WHITLOCK									
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Sheet No.: A1.3

Roof Plan



LEGEND	NAME	DESCRIPTION
	E100	CMU COLOR: TBD, SEE SPECS FOR PAINT AND PRIMER TYPE / APPLICATION INFO.
	E101	EXPOSED ARCHITECTURAL CONCRETE PROVIDE UNIFORM, SMOOTH CONCRETE SURFACE. MINIMUM FORM JOINT SPACING 4'-0" EA/WAY. PROVIDE UNIFORM SNAP- TIE PATTERN. SNAP-TIE HOLES ARE TO REMAIN EXPOSED AFTER FORM REMOVAL. <u>NOTE:</u> WALLS GREATER THAN 3' IN TOTAL HEIGHT AND LEFT EXPOSED SHALL RECEIVE 'WR MEADOWS INTRAGUARD SEALER'.
	E200	EIFS SYSTEMS - COLOR A COLOR: DRYVIT #132 MOUNTAIN FOG, SEE SPECIFICATIONS. FINISH: SANDPEBBLE FINE, CONTRACTOR TO SUBMIT SAMPLE FOR ARCHITECT'S APPROVAL
	E201	EIFS SYSTEMS - COLOR B COLOR: DRYVIT #615A TATTLETALE FINISH: SANDPEBBLE FINE, CONTRACTOR TO SUBMIT SAMPLE FOR ARCHITECT'S APPROVAL
	E300	METAL WALL PANEL - TYPE A BASIS OF DESIGN: ATAS BELVEDERE 7.2" RIB COLOR: SLATE GREY
	E301	R E S E R V E D
	E302	METAL WALL PANEL - TYPE C BASIS OF DESIGN: ATAS BELVEDERE 7.2" RIB COLOR: SLATE GREY - PERFORATED 25%
	E303	R E S E R V E D
	E304	METAL COPING / DRIP EDGE / ASSORT BRAKE METAL PRE-FINISHED COLOR: SEE ELEVATION TO MATCH ADJACENT
	E305	STOREFRONT SYSTEM COLOR/FINISH: DARK BRONZE ANODIZED
	E306	CURTAIN WALL SYSTEM COLOR/FINISH: DARK BRONZE ANODIZED
	E307	EXTERIOR HANDRAIL / GUARDRAIL SW7019 GAUNTLET GRAY, SEE SPECS FOR APPLICATION INFO.
	E400	FIBER CEMENT PANEL BASIS OF DESIGN: NICHIHA VINTAGEWOOD COLOR: CEDAR WOOD GRAIN
	E500	EXPOSED METALS PAINT COLOR COLOR: PAINT SW7019 GAUNTLET GRAY, SEE SPECS FOR APPLICATION INFO.

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T		υ υ υ υ υ υ υ Δ Δ Δ Δ Δ			J	J T Γ J T		JT · · · ·
		E300 - METAL WALL PAN	EL - TYPE A					
11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"		JT.
		JT						
		JT						
								[**]
				VERTICAL CONTROL A FOUNDATION WALL - TRAPEZOIDAL - SEE E101 - CAST IN PLACE NOTE: PROVIDE CON AND HORIZONTAL JO ARE TO BE LEFT UNF	JOINT FORMED IN CONCRETE 1.5" X 1.5" RECESSED STRUCTURAL DWGS. CONCRETE FOUNDATION WA SISTENT GRID PATTERN WITH NTS) ACROSS FACADE. ALL T LLED. ALL 90 DEGREE CORNE	ALL, SEE STRUCT DWGS FOR H FORMWORK PANEL LAYOUT IES ARE TO BE REMOVABLE A ERS SHALL BE CHAMFERED, 3	WALL DEPTH - STRUCT DWGS	

N	
•	
PAINT AND PRIMER N INFO.	_/
AL CONCRETE RETE SURFACE. MINIMUM PROVIDE UNIFORM SNAP- D REMAIN EXPOSED AFTER EATER THAN 3' IN TOTAL RECEIVE 'WR MEADOWS ALER'.	
DLOR A G, SEE SPECIFICATIONS. CTOR TO SUBMIT SAMPLE PPROVAL	
D LOR B TATTLETALE CTOR TO SUBMIT SAMPLE PPROVAL	
- TYPE A VEDERE 7.2" RIB GREY	
D	
- TYPE C VEDERE 7.2" RIB RFORATED 25%	
D	
SORT BRAKE METAL DN TO MATCH ADJACENT	
STEM NZE ANODIZED	
YSTEM NZE ANODIZED	
GUARDRAIL FOR APPLICATION INFO.	
ANEL VINTAGEWOOD DD GRAIN	
NT COLOR GRAY, SEE SPECS FOR IFO.	

E300 - METAL WALL PANEL BEYOND - TYPE A - SCREEN WALL BEYOND

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Sheet No.: A2.2









- +35'-0" ROOF LEVEL

+27'-0" STAIR LANDING

- - +9'-0" STAIR LANDING

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2X6 MODIFIED WOOD RAILING CAP W/ EASED EDGES AND BLIND — ATTACHMENT - STAINED. <u>BASIS OF DESIGN:</u> ACCOYA ACETYLATED WOOD - 2X6 RAIL CAP

FULLY WELDED GALVANIZED STEEL — 3/8"Ø HORIZONTAL MEMBERS -

GALV STEEL VERTICAL POST BOLTED TO EMBED PLATE - ALL BOLTS/NUTS TO BE GALVANIZED STEEL

____0'<u>-0</u>"

FORMED CONCRETE OVERHANG W/ 1/2"X1/2" DRIP EDGE

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Description: Alternates

Sheet No.: A3.10



A3.7

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A3.7









A1	42" L GRAB BAR, 1 1/2" DIA BOBRICK, B-9806
A2	36" L GRAB BAR, 1 1/2" DIA BOBRICK, B-9806
A3	48" L GRAB BAR, 1 1/2" DIA BOBRICK, B-9806
A4	24" L GRAB BAR, 1 1/2" DIA BOBRICK, B-9806
A5	TOILET TISSUE DISPENSER - ULINE JUMBO H-1347 - SURFACE-MOUNTED
A6	PAPER TOWEL DISPENSER - KIMBERLY-CLARK HANDS-FREE TOWEL DISPENSER H-2272 -
A7	SEMI-RECESSED STAINLESS STEEL WASTE RECEPTABLE - BOBRICK, B-3644
A 8	SOAP DISPENSER - GOJO TOUCH FREE DISPENSER H-1585
A9	24" x 40" FRAMELESS MIRROR
A10	FRAMELESS MIRROR - SIZE VARIES
A11	HEAVY DUTY SHOWER CURTAIN ROD - BOBRICK B-6107. CUSTOM LENGTH TO FIT SHOWE
A12	SHOWER CURATIN HOOKS - BOBRICK 204-1
A13	COAT HOOK - BOBRICK FINO COLLECTION - FINISH: SATIN STAINLESS STEEL
A14	MOP HOLDER - BOBRICK, B-223X36
A15	TOILET SEAT COVER DISPENSER - ULINE H-878SMOKE - SURFACE-MOUNTED
A16	BABY CHANGING STATION - KOALA KARE KB310-SSWM

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Interior Elevations

A5.2

Sheet No.:



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	LOCATION	J	SIZE			FRAME		FIRE RATING	HARDWARE	NOTES	DOOR NO			SIZE	DOR			FRAME			HARDWARE	NOTES
Ş		ELEVATION	W HT MATE	RIAL FINISH	ELEVATION	MATERIAL	FINISH						ELEVATION	W HT	MATERIAL	FINISH	ELEVATION	MATERIAL	FINISH			
D100	Exterior	E-Pair	6'-0" 8'-0" AL/GL	AN		AL	AN	Non-Rated	1.0	PRX	D200B	Interior	B-Pair 6	6'-0" 8'-0"	WD/GL	FS	HM2 F	HM	PT.	45 minutes	11.0	PRX, DBL EGRESS
D100A	Interior	B-Pair	6'-0" 8'-0" WD/GL	- FS	HM2	HM	PT.	45 minutes	11.0	PRX, DBL EGRESS	D200D	Interior	B-Pair 6	6'-0" 8'-0"	WD/GL	FS	HM2 H	HM	PT.	45 minutes	11.0	PRX, DBL EGRESS
	Interior	B-Pair	3-0 8-0 AL/GL 6'-0" 8'-0" WD/GL	FS	HM2	HM	PT.	45 minutes	11.0	PRX. DBL EGRESS	D200E	Exterior	A S	3'-0" 8'-0" 3'-0" 8'-0"	нм WD	FS	HM1 F	HM HM	PT	Non-Rated	22.0	SILL 8" ABOVE ROOF
D100F	Interior	C-Pair	6'-0" 8'-0" WD	FS	HM1	HM	PT	Non-Rated	17.0		D201	Interior	E 3	3'-0" 8'-0"	AL/GL	AN		AL.	AN	Non-Rated	28.0	RS
D100G	Exterior	E-Pair	6'-0" 8'-0" AL/GL	AN		AL	AN	Non-Rated	1.1	PRX	D202A	Interior	A 2	2'-8" 8'-0"	WD	FS	HM1 F	HM	PT	Non-Rated	29.0	
	Exterior	E	3'-0" 8'-0" AL/GL	AN		AL	AN	Non-Rated	2.0	PRX	D203A	Interior	C 3	3'-4" 8'-0"	WD	FS	HM1 F	HM	PT	Non-Rated	23.0	
			3'-0" 8'-0" AL/GL	AN ES	HM1	AL HM	AN PT	Non-Rated	28.0	RS	D204	Interior	Ε 3	3'-0" 8'-0" 3'-0" 8'-0"	AL/GL	AN	A HM1 F	AL HM	AN PT	Non-Rated	28.0	RS
D102	Interior	E	3'-0" 8'-0" AL/GL	AN		AL	AN.	Non-Rated	28.0	RS	D206	Interior	E 3	3'-0" 8'-0"	AL/GL	AN	A A A A A A A A A A A A A A A A A A A	AL	AN	Non-Rated	28.0	RS
C D103A	Interior	E	3'-0" 8'-0" AL/GL	AN		AL	AN.	Non-Rated	27.0	RS	D207	Interior	C 3	3'-0" 8'-0"	WD/GL	FS	HM1 F	HM	PT	Non-Rated	19.0	F-PRX
D103B	Interior	E	3'-0" 8'-0" AL/GL	AN		AL	AN.	Non-Rated	27.0	RS	D207A	Interior	A 2	2'-0" 8'-0"	WD	FS	HM1 H	НМ	PT	Non-Rated	29.0	
D105	Interior	A	3'-0" 8'-0" WD	FS	HM1	HM	PT	Non-Rated	31.0		D208	Interior	D 5	5'-4" 8'-0"	WD/GL	FS	HM1 F	HM	PT	Non-Rated	14.0	F-PRX
D106	Interior	E	3'-0" 8'-0" AL/GL	AN		AL	AN	Non-Rated	27.0		D208A		A Z	2'-0" 8'-0" 3'-0" 8'-0"	WD/GI	FS	HM1 F	HM HM	PT	Non-Rated	29.0	F-PRX
D108	Interior	A	3'-0" 8'-0" WD	FS	HM1	HM	PT	Non-Rated	26.0	MP,	D209A	Interior	A 2	2'-0" 8'-0"	WD	FS	HM1 F	HM	PT	Non-Rated	29.0	
D108A	Interior	A	2'-0" 8'-0" WD	FS	HM1	НМ	PT	Non-Rated	22.0		D209B	Interior	A 3	3'-0" 8'-0"	WD	FS	HM1 F	НМ	PT	Non-Rated	23.0	
D109A	Interior	A	3'-0" 8'-0" WD	FS	HM1	HM	PT	Non-Rated	29.0		D210	Interior	C 3	3'-0" 8'-0"	WD/GL	FS	ŀ	НМ	PT	Non-Rated	19.0	F-PRX
> D109B	Interior	E	3'-0" 8'-0" AL/GL	AN		AL	AN	Non-Rated	27.0		D210A	Interior	A 2	2'-0" 8'-0"	WD	FS	HM1 H	HM	PT	Non-Rated	29.0	
D109C	Interior	E	3'-0" 8'-0" AL/GL	AN		AL	AN	Non-Rated	27.0		D211 D212	Interior	A 3	3'-0" 8'-0"	WD	FS	HM1 F	-∟ HM	PT	Non-Rated	26.0	MP.
D109E	Interior	E	3'-0" 8'-0" AL/GL	AN		AL	AN	Non-Rated	27.0		D212A	Interior	A 2	2'-0" 8'-0"	WD	FS	HM1 F	НМ	PT	Non-Rated	22.0	,
D110	Interior	D	5'-4" 8'-0" WD/GL	- FS	HM1	HM	PT	Non-Rated	14.0	F-PRX	D213A	Interior	A 3	3'-0" 8'-0"	WD	FS	HM1 H	HM	PT	Non-Rated	29.0	
	Interior	A	2'-0" 8'-0" WD	FS	HM1	HM	PT	Non-Rated	29.0		D213B	Interior	E	3'-0" 8'-0"	AL/GL	AN	ļ A	AL	AN	Non-Rated	27.0	
	Interior	A D	3'-0" 8'-0" WD 5'-4" 8'-0" WD	FS.	HM1	нм	PT	Non-Rated	23.0 14 0	F-PRX	U213C ח213C	Interior	E S	ל'-U" 8'-O" זי_ח" פי היי		AN		4L	AN AN	Non-Rated	27.0	
C D111A	Interior	A	2'-0" 8'-0" WD	FS		HM	PT	Non-Rated	29.0		D213E	Interior	E 3	3'-0" 8'-0"	AL/GL	AN		. <u> </u>	AN	Non-Rated	27.0	
E D111B	Interior	A	3'-0" 8'-0" WD	FS.	HM1	HM	PT	Non-Rated	23.0		D214	Interior	D 5	5'-4" 8'-0"	WD/GL	FS	HM1 F	HM	PT	Non-Rated	14.0	F-PRX
D112A	Interior	A	3'-0" 8'-0" WD	FS	HM1	НМ	PT	Non-Rated	29.0		D214A	Interior	A 2	2'-0" 8'-0"	WD	FS	HM1 F	НМ	PT	Non-Rated	29.0	
C D112B		E	3'-0" 8'-0" AL/GL	AN		AL	AN	Non-Rated	27.0		D214B	Interior	A 3	3'-0" 8'-0"	WD	FS	HM1 F	HM	PT	Non-Rated	23.0	
	Interior	F	3'-0" 8'-0" AL/GL 3'-0" 8'-0" Δι /Οι	AN AN		AL	AN	Non-Rated	27.0 27.0		D215	Interior		ס`-4" 8'-0" ס'_ח" פי חיי	WD/GL	FS	HM1 HM1	⊣M ⊣M	PT	Non-Rated	14.0 20 0	F-PRX
C D112E	Interior	E	3'-0" 8'-0" AL/GL	AN		AL	AN	Non-Rated	27.0		D215B	Interior	A 2	3'-0" 8'-0"	WD	FS	HM1	HM	PT	Non-Rated	23.0	
D113	Interior	С	3'-0" 8'-0" WD/GL	- FS	HM1	НМ	PT	Non-Rated	19.0	F-PRX	D216A	Interior	A 3	3'-0" 8'-0"	WD	FS	HM1 H	НМ	PT	Non-Rated	29.0	
D113A	Interior	A .	2'-0" 8'-0" WD	FS.	HM1	HM	PT	Non-Rated	29.0		D216B	Interior	E 3	3'-0" 8'-0"	AL/GL	AN	ļ A	4L	AN	Non-Rated	27.0	
	Interior	A	3'-0" 8'-0" WD	FS ANI	HM1	HM	ρτ	Non-Rated	29.0		D216C	Interior	E 3	3'-0" 8'-0"	AL/GL	AN		۹L ۵۱		Non-Rated	27.0	
D114D	Interior	E	3'-0" 8'-0" AL/GL	AN		AL	AN	Non-Rated	27.0		D216D	Interior	E 3	3'-0" 8'-0"	AL/GL	AN	F F	AL	AN	Non-Rated	27.0	
D114D	Interior	E	3'-0" 8'-0" AL/GL	AN		AL	AN	Non-Rated	27.0		D217	Interior	C 3	3'-0" 8'-0"	WD	FS	HM1 F	НМ	PT	Non-Rated	19.0	F-PRX
E D114E	Interior	E	3'-0" 8'-0" AL/GL	AN		AL	AN	Non-Rated	27.0		D217A	Interior	A 2	2'-0" 8'-0"	WD	FS	HM1 F	HM	PT	Non-Rated	29.0	
D115		A	3'-0" 8'-0" WD	FS	HM1	HM	PT	Non-Rated	20.0		D218	Interior	A 3	3'-0" 8'-0"	WD	FS	HM1 H	HM	PT	Non-Rated	29.0	
D115A		A A	3'-0" 8'-0" HM	FS	HM1	НМ	PI	Non-Rated	7.0 20.0		D219A	Interior	A 3	3'-0" 8'-0" 3'-0" 8'-0"	WD	FS	HM1 F			Non-Rated	29.0 27.0	
D116A	Exterior	A-Pair	6'-0" 8'-0" HM	PT	HM1	НМ	PT	Non-Rated	4.0		D219D	Interior	E 3	3'-0" 8'-0"	AL/GL	AN	l l	ς 4L	AN	Non-Rated	27.0	
D117	Interior	A	3'-0" 8'-0" WD	FS.	HM1	НМ	PT	Non-Rated	29.0		D219D	Interior	E	3'-0" 8'-0"	AL/GL	AN	ļ A	AL	AN	Non-Rated	27.0	
D117A	Interior	A	2'-8" 8'-0" WD	FS	HM1	HM	PT	Non-Rated	29.0		D219E	Interior	E 3	3'-0" 8'-0"	AL/GL	AN	ŀ	AL	AN	Non-Rated	27.0	
D118	Interior	A	3'-0" 8'-0" WD	FS.	HM1	HM	PT	Non-Rated	32.0		D220	Interior	A 3	3'-0" 8'-0"	WD	FS	HM1 H	HM	PT	Non-Rated	20.0	
D119	Exterior	A A-Pair	3-0 8-0 WD/GL 6'-0" 8'-0" HM	- FS PT	HM1	HM	PT	Non-Rated	5.0		D221	Interior	A 2	3'-0" 8'-0" 2'-0" 8'-0"	WD/GL	FS	HM1 F	HM HM	PT	Non-Rated	19.0 29.0	F-PRX
D120	Interior	D-Pair	5'-4" 8'-0" WD/GL	- FS	HM1	HM	PT	45 minutes	12.0	F-PRX	D222	Interior	C 3	3'-0" 8'-0"	WD/GL	FS	HM1 F	HM	PT	Non-Rated	19.0	F-PRX
C D120A	Interior	A	2'-0" 8'-0" WD	FS	HM1	НМ	PT	Non-Rated	29.0		D222A	Interior	A 2	2'-0" 8'-0"	WD	FS	HM1 H	НМ	PT	Non-Rated	29.0	
C D120B	Interior	A	3'-0" 8'-0" WD	FS	HM1	НМ	PT	Non-Rated	23.0		D223	Interior	C 3	3'-0" 8'-0"	WD/GL	FS	HM1 F	НМ	PT	Non-Rated	19.0	F-PRX
		С 	3'-0" 8'-0" WD/GL	- FS	HM1	НМ	PT PT	45 minutes	16.0 29.0	F-PRX	D223A	Interior	A 2	2'-0" 8'-0"	WD	FS	HM1 H	HM M	PT	Non-Rated	29.0	
D1217	Interior	C	3'-0" 8'-0" WD/GL	_ FS	HM1	HM	PT	Non-Rated	19.0	F-PRX	D224	Interior	A 2	2'-0" 8'-0"	WD/GL	FS	HM1 F	HM	PT	Non-Rated	29.0	
D122A	Interior	A	2'-0" 8'-0" WD	FS	HM1	НМ	PT	Non-Rated	29.0		D225	Interior	D-Pair 5	5'-4" 8'-0"	WD/GL	FS	HM1 F	HM	PT	45 minutes	12.0	F-PRX
D123	Interior	С	3'-0" 8'-0" WD/GL	- FS.	HM1	HM	PT	45 minutes	16.0	F-PRX	D225A	Interior	A 2	2'-0" 8'-0"	WD	FS	HM1 F	НМ	PT	Non-Rated	29.0	
D123A	Interior	A	2'-0" 8'-0" WD	FS	HM1	HM	PT	Non-Rated	29.0		D225B	Interior	A 3	3'-0" 8'-0"	WD	FS	HM1 H	HM	PT	Non-Rated	23.0	
D124	Interior	A	2'-0" 8'-0" WD	FS FS	HM1	HM	PT	Non-Rated	29.0		D226 D226A	Interior	A 2	2'-0" 8'-0"	WD/GL WD	FS	HM1 F	HM HM	PT	45 minutes Non-Rated	29.0	F-PKX
D125	Interior	D-Pair	5'-4" 8'-0" WD/GL	FS	HM1	НМ	PT	45 minutes	12.0	F-PRX	D227	Interior	C 3	3'-0" 8'-0"	WD/GL	FS	HM1 H	НМ	PT	Non-Rated	19.0	F-PRX
C D125A	Interior	A	2'-0" 8'-0" WD	FS.	HM1	НМ	РТ	Non-Rated	29.0		D227A	Interior	A 2	2'-0" 8'-0"	WD	FS	HM1 F	НМ	PT	Non-Rated	29.0	
D125B		A	3'-0" 8'-0" WD	FS.	HM1	HM	PT	Non-Rated	23.0		D228	Interior	C	3'-0" 8'-0"	WD/GL	FS	HM1 F	HM	PT	45 minutes	16.0	F-PRX
	Interior		ט'-4" 8'-0" WD/GL 2'-0" 8'-0" אירס	- FS FS	HM1	нм	РТ РТ	Non-Rated	14.0 29.0	F-PKX	U228A סכנת	Interior	A 2	⊻'-0" 8'-0" זי_ח" פי ∩"	WD WD/רי	FS FS	HM1 HM1	HM	PT	Non-Rated	29.0	F_DDY
> D126B	Interior	A	3'-0" 8'-0" WD	FS.	HM1	HM	PT	Non-Rated	23.0		D229A	Interior	A 2	2'-0" 8'-0"	WD	FS	HM1	HM	PT	Non-Rated	29.0	
E D127	Interior	D-Pair	5'-4" 8'-0" WD/GL	- FS	HM1	НМ	PT	45 minutes	12.0	F-PRX	D230	Interior	D-Pair 5	5'-4" 8'-0"	WD/GL	FS	HM1 H	HM	PT	45 minutes	12.0	F-PRX
D127A		A	2'-0" 8'-0" WD	FS	HM1	HM	PT	Non-Rated	29.0		D230A	Interior	A 2	2'-0" 8'-0"	WD	FS	HM1 F	HM	PT	Non-Rated	29.0	
	Interior	A D	3'-0" 8'-0" WD 5'-4" 8'-0" WD	FS FS	HM1	нм	PT	Non-Rated	23.0 14 0	F-PRX	D230B	Interior	A 3	ל'-0" 8'-0" 5'-4" פי סיי	WD WD/רי	FS FS	HM1 HM1	⊣M ⊣M	PT	Non-Rated	23.0	F_DDY
C D128A	Interior	A	2'-0" 8'-0" WD	FS	HM1	HM	PT	Non-Rated	29.0		D231A	Interior	A 2	2'-0" 8'-0"	WD	FS	HM1	HM	PT	Non-Rated	29.0	
D128B	Interior	A	3'-0" 8'-0" WD	FS	HM1	НМ	PT	Non-Rated	23.0		D231B	Interior	A 3	3'-0" 8'-0"	WD	FS	HM1 F	НМ	PT	Non-Rated	23.0	
C D129A	Interior	E	3'-0" 8'-0" AL/GL	AN		AL	AN	Non-Rated	28.0		D232	Interior	D-Pair 5	5'-4" 8'-0"	WD/GL	FS	HM1 F	HM	PT	45 minutes	12.0	F-PRX
	Interior	Ε	3'-0" 8'-0" AL/GL	AN	<u> </u>	AL	AN pt	Non-Rated	28.0	MP	D232A		A 2	2'-0" 8'-0"	WD	FS	HM1 H	HM HM	РТ рт	Non-Rated	29.0	
D130	Interior	C-Pair	6'-0" 8'-0" WD	PT.	HM1	HM.	PT.	45 minutes	13.0	AP,	D232B	Interior	D 5	ס-ט <u>8'-0"</u> 5'-4" 8'-೧"	WD/GL	FS	HM1	ни НМ	PT	Non-Rated	23.0 14.0	F-PRX
C D131A	Exterior	C	3'-6" 8'-0" HM	PT.	HM1	НМ	PT.	Non-Rated	9.0	PRX	D233A	Interior	A 2	2'-0" 8'-0"	WD	FS	HM1 H	НМ	PT	Non-Rated	29.0	
C D131B	Exterior	F	10'-0" 10'-0" MTL	PT		HM	PT	Non-Rated	34.0		D233B	Interior	A 3	3'-0" 8'-0"	WD	FS	HM1 H	НМ	PT	Non-Rated	23.0	
D132	Interior	A	3'-4" 8'-0" WD	FS	HM1	HM	PT	Non-Rated	29.0		D234	Interior	C	3'-0" 8'-0"	WD/GL	FS	HM1 F	HM	PT	45 minutes	16.0	F-PRX
	Interior	A C-Pair	3'-0" 8'-0" WD 6'-0" 8'-0" HM	FS PT	HM1	нм	PT	Non-Rated	30.0 13.0		D234A	Interior	Α 2 Δ	2'-0" 8'-0" 3'-0" פי סיי	WD WD	FS	HM1 HM1	HM HM	РТ	Non-Rated	29.0	MD
D134B	Exterior	C	3'-6" 8'-0" HM	PT.	HM1	HM	PT.	Non-Rated	8.0	PRX	D236A	Interior	E S	3'-0" 8'-0"	AL/GL	AN		AL	AN	Non-Rated	25.0	IVIE,
D135	Interior	C-Pair	6'-0" 8'-0" HM	PT.	HM1	HM.	PT.	45 minutes	13.0	AP,	D237	Interior	C 3	3'-0" 8'-0"	WD/GL	FS	HM1 F	HM	PT	Non-Rated	19.0	F-PRX
D135A	Exterior	С	3'-6" 8'-0" HM	PT.	HM1	НМ	PT.	Non-Rated	8.0	PRX	D237A	Interior	A 2	2'-0" 8'-0"	WD	FS	HM1 F	НМ	PT	Non-Rated	29.0	
D135B	Exterior	F	10'-0" 10'-0" MTL	PT			PT	Non-Rated	34.0		D238	Interior	C 3	3'-0" 8'-0"	WD/GL	FS	HM1 H	HM	PT	Non-Rated	19.0	F-PRX
5											D238A	Interior	A 2	⊻ -∪" 8′-0" 3′-0" אי₋∩יי	WD/GI	гъ FS	HM1	אוד 	PT	Non-Rated	29.0 23.0	
·····	·····	·····	······	······	·····	·····	Juni	uuu	m	······································	DS1001-1	Interior	E 3	3'-0" 8'-0"	AL/GL	AN	·····	AL	AN	45 minutes	15.0	
										Ś	DS1001-2	Exterior	E	3'-0" 8'-0"	AL/GL	AN	ŀ	AL	PT	Non-Rated	1.2	
										Ś	DS1002-1		C	3'-0" 8'-0"	HM	PT.	HM1 F	HM	PT	45 minutes	15.0	
_	. –		• • •							Ś	DS1002-2	Exterior	A 3	ל ⁻ -0" 8'-0" 3'-0" פי סיי		PI AN	HM1 H	HM AL	AN	Non-Rated	6.0 15.0	
Door an	nd Frame	<u>Schedul</u>	e Abbreviatior	<u> 15:</u>							DS2002-1	Interior	C 3	3'-0" 8'-0"	HM / GL	PT	HM1 F	- HM	PT	45 minutes	15.0	
	_UMINI IM									Ş	DS3002-1	Exterior	A 3	3'-0" 6'-8"	HM	PT.	HM1 H	HM.	PT.	Non-Rated	10.0	SILL 8" ABOVE ROOF
AN AN	NODIZED (SE	EE SPECS FO	R COLOR)							ž	_	_	. –	_	_	_	. –		_	_	_	

- AP ARMOR PLATE 34"X34"
- HM HOLLOW METAL F-PRX FUTURE PROXIMITY ACCESS
- FS FACTORY STAIN GL GLASS
- PRX PROXITY ACCESS MP MOP PLATE 6"X34"
- MTL METAL
- RS ROOM SCHEDULE TABLET (INFRASTRUCTURE FOR FUTURE) WD WOOD (SEE SPECS FOR SPECIES AND TYPE)
- PT PAINT

Consultant:	Client:	PHASE:	DRAWN: REVIEWED:	DATE: ID:	REVISION:	DRAWN: REVIEWED:	DATE:	THESE DRAWINGS AND RENDERINGS ARE
		DESIGN DEVELOPMENT	RS, KS, AK, EE C. WHITLOCK	07/30/21 1	ADDENDUM 1	RS, KS, EE, AK, BG C. WHITLOCK	01/10/22	INSTRUMENTS OF SERVICE. THE DRAWINGS
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Icloud: Lewis-BIM - BIMcloud Basic for ARCHICAD 24/21414 NFIL Teamwork DD Model3:23 PM

Finish Summary

Finish Schedule

ROOM NUMBER

100-1 100-2 100

100A 100B 100C 100D 100E 100F

101A

106

108A 109 109A 109B 109C

109D 109E

110 110A

11A

112A

112B

112C

112D

112E

113

113A

114

114A

114B

114C

114D

114E

116

120A

121

121A

122A

123A

124A

125A

126A

127A

128

128A

129

126

124

122

FIRST FLOOR

Mark	Description	Size	Basis of Design	Color/Pattern	Notes
CPT-1	Field Carpet Tile	12" x 36"	Mannington Optic Hush	Absorb	Installed Vertical Ashlar
CT-1	Porcelain Ceramic Tile - Field	24" x 24"	Trinity Tile Pathways	White	
RB-1	Rubber Tile	18" x 36"	Mannington <i>Teles</i>	Dew Drop	
CONC-1	Polished Concrete	-	See Specs	-	
CONC-2	Sealed Concrete	-	See Specs	-	
TRANSITIO	NS				
RT	Resilient Transition	-	Mannington Fusion	TBS by Architect	
WALL BAS			L	.	1
RB-2	Rubber Wall Base - Cove	6"			
CT-5	Ceramic Tile - Bullnose	3" x 12"	Trinity Tile Pathways	White	
ACT-1	Acoustical Ceiling Tile	24" x 24"	Armstrong Ultima Tegular	White	Use with Armstrong Prelude
ACT-2	Acoustical Ceiling Tile	24" x 24"	Armstrong Dune, Square Lay-In	White	Use with Armstrong Prelude
ACT-3	Acoustical Ceiling Tile, <i>Lab</i> s	24" x 24"	Armstrong Ultima HealthZone, Square	White	Use with Armstrong Prelude
ACT-4	Acoustical Ceiling Tile, Unisex Restroom	24" x 24"	Armstrong Ceramaguard Fine Fissured	White	Use with Armstrong Prelude Plus
ACS-1	Acoustical Ceiling System, Gypsum	See RCP	Armstrong ACOUSTIBuilt Seamless	Tinted to match SW 7021	
ACB-1	Acoustic Ceiling Blades	See RCP	Armstrong Feltworks Blades	Mocha	
GYP	Gypsum Board	-	-		
WD-1	Wood Plank System	- 1	ACGI Linear Closed Series 1	Match Architect's Sample	
WALLS					
PT-1	Latex Paint	-	Sherwin Williams	SW 7567 Natural Tan	
PT-2	Ceiling Paint	-	Sherwin Williams	SW 7008 Alabaster	
PT-3	Accent Paint - neutral	-	Sherwin Williams	SW 7038 Tony Taupe	
PT-4	Accent Paint - color	-	Sherwin Williams	SW 9130 Evergreen Fog	
PT-5	Accent Paint - color	-	Sherwin Williams	SW 6187 Rosemary	
PT-6	Accent Paint - color	-	Sherwin Williams	SW 7019 Gauntlet Gray	
EPT-X	Epoxy Paint	-	-	Match PT designation above	
AWP - 1	Acoustical Wall Panel	-	Unika Vaev ecoustic v-panel V- line Mix	Olive	
AWP - 2	Acoustical Wall Panel	-	Unika Vaev ecoustic v-panel V- line Mix	Tungsten	
CT-2	Ceramic Tile - Wall	12" x 36"	Olympia Tile+Stone Ozone Matte Slot Deco	Snow	
CT-3	Ceramic Tile - Wall, Accent	3" x 16"	Trinity Tile Artifact	Verde	
CT-4	Cement Tile - Wall, Backsplash	8" x 9"	Zia Cement Tile Oslo Hex	White-Pewter	
VWC	Vinyl Wall Covering	-	MDC Downing	Marble	Perforated for exterior walls
WD-2	T&G Wood Planks	- <u>1</u>	Match ACGI Linear Closed Series 1		
MILLWORK	(н Т	н Т
PL-1	Plastic Laminate, Casework	-	Wilsonart High Pressure Laminate	Palisades Oak 7987-12	
PL-2	Plastic Laminate, Casework	-	Wilsonart High Pressure Laminate	Linen D47-01	
QZ-1	Quartz Countertops	-	Cambria	White Plains	
QZ-2	Quartz Accent	-	Compac	Smoke Gray	
UPH-1	Bench Upholstery	-	Wolf Gordon Stable	Evergreen	
SPECIALTI	ES Corpor Guarda		Construction Specialkies COM Contest	104 Chipshills	Full boight
1F-1 DC 4		-			
къ-1	Roller Shades, light filtering	-	Budget Blinds Signature Series Oracle	Uracle 3% Quill Gray 97707	
KS-2	Kuller Shades, blackout	-	Dy Architect	-	

GENERAL FINISH NOTES

All accent colors to terminate at inside corners. Coordinate with architect for unique conditions
All walls to receive PT-1 and RB-1 unless noted otherwise.
All Gyp. ceilings to receive PT-2 unless noted otherwise, including pre-engineered ceiling gyp. ceiling systems.
Where ceilings are designated to be 'Exposed Painted,' paint all structure and above-ceiling framing/infrastructure PT-6

	FLOO	RS	BASE			WALLS						FLOORS	BASE			WALLS			
ROOM NAME / DESCRIPTION	H	S	H SI					ROLLER SHADES	CEILING	ROOM	ROOM NAME / DESCRIPTION	H S	H SII					ROLLER SHADES	CEILING
	FINIS	NOTI	FINIS	NORTH	EAST	SOUTH	WEST	(ALTERNATE BID)		NUWBER		FINIS	FINIS	NORTH	EAST	SOUTH	WEST	(ALTERNATE BID)	
OR										SECOND FL	DOR								
ELEVATOR	RB-1					SEE SPEC	IFICATIONS							DT 4			DT 4		
STAIR	CONC-2	2	RB-2	PT-1	PT-6	PT-1	PT-1		EXPOSED PAINTED	200-1	STAIR	CONC-2 2	RB-2	P1-1	P1-0	P1-1	P1-1		EXPOSED PAINTED
STAIR	CONC-2	2	RB-2	PT-1	PT-1	PT-6	PT-1		EXPOSED PAINTED	200-2	STAIR	CONC-2 2	RB-2	PT-1	PT-1	PT-6	PT-1		EXPOSED PAINTED
ENTRY LOBBY	CONC-1		RB-2	PT-6	PT-1	PT-6	PT-6		EXPOSED PTD. / ACS-1 / GYP	200	BALCONY	CONC-1	RB-2	PT-1	VWC	PT-1	PT-1		EXPOSED PAINTED
LOBBY CORRIDOR	CONC-1		RB-2	PT-1	-	PT-1	PT-1		GYP / ACT-1	200A		CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED PTD. / ACS-1
CORRIDOR	CONC-1		RB-2	PT-1	PT-1	PT-1	PT-1		GYP / ACT-1	2006			RB-2		PT-1	PT-1			
CORRIDOR	CONC-1		RB-2	PT-1	PT-1	PT-1	PT-1		GYP / ACT-1	2000	CORRIDOR	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		GYP / ACT-1
CORRIDOR	CONC-1		RB-2	PT-1	PT-1	PT-1	PT-1		GYP / ACT-1	200B	SERVICE AREA	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		ACT-2
CORRIDOR	CONC-1		RB-2	PT-1	PT-1	PT-1	PT-1		GYP / ACT-1	201	CONFERENCE ROOM	CPT-1	RB-2	PT-1	PT-1	PT-1	PT-4		GYP (PT-6) / ACT-1
	CONC-1		RB-2	PT-1	PT-1	PT-1	PT-1		GYP / ACT-1	202	SHARED WORK / OPEN COLLAB	CPT-1	RB-2	PT-1/PT-4/AWP-2	PT-1	PT-1/PT-4/AWP-2	AWP-2	RS-1	EXPOSED PTD. / ACS-1 /
	CONC-1		RB-2	PI-1	PI-1					2024	STORAGE		PB-2	DT_1	DT_1	DT_1	DT_1		GYP (PT-4)
STORAGE							PT-1/PT-3	R5-2	ACT 2	2027	AUTOCLAVE ROOM	CONC-1	RB-2	EPT-1	EPT-1	EPT-1	EPT-1		ACT-3/GYP
	CONC-1		RB-2	PT-1	PT-1	PT_1/PT_/	PT-1			204	HUDDLE ROOM	CPT-1	RB-2	PT-1	PT-5	PT-1	PT-1		ACT-1
	CONC-1		RB-2	PT-3	PT-3	PT-3	WD-2/PT-3	RS-1	EXPOSED PTD / WD-2 / ACS-1	205	JANITOR	CONC-1	RB-2	EPT-1	EPT-1	EPT-1	EPT-1		ACT-2
ADMINISTRATION	CPT-1-1		RB-2	PT-1	WD-2	PT-1	PT-1		ACT / QZ-2	206	HUDDLE ROOM	CPT-1	RB-2	PT-1	PT-5	PT-1	PT-1		ACT-1
DIRECTOR'S OFFICE	CPT-1-1		RB-2	PT-1	PT-4	PT-1	PT-1	RS-1	EXPOSED PTD. / GYP / ACT-1	207	DRY LAB	CONC-1	RB-2	EPT-4	EPT-1	EPT-1	EPT-1		ACT-3
WORK STATIONS	CPT-1-1		RB-2	PT-1	PT-1	PT-4	PT-1		ACT-1	207A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
PRINT LOUNGE	CPT-1-1		RB-2	PT-1	PT-1	PT-4/PT-6	PT-1	RS-1	GYP (PT-6) / ACT-1	208		CONC-1	RB-2	EPT-1	EPT-1	EPT-4	EPT-1	RS-1	ACT-3
WOMEN'S RESTROOM	CT-1		CT-5	CT-2	CT-2/CT-3	EPT-1	EPT-1		GYP (PT-4) / ACT-1	2084	DRYLAB	CONC-1	RB-2	FPT-4	FI-I FPT-1	FI-1 FPT-1	FI-I FPT-1		ACT-3
CLOSET	CT-1		CT-5	(℃T-2	PT-1	PT-1	₽TĄ	RS-1	GYP	209A	CLOSET	CONC-1	RB-2	PT-1	 PT-1	PT-1	PT-1		EXPOSED
COLLAB.	CONC-1		RB-2		····•́РТ-2····	РТ-2	·····•₽Ť-2		ACT-1 / GYP	210	DRY LAB	CONC-1	RB-2	EPT-4	EPT-1	EPT-1	EPT-1		ACT-3
STORAGE	CONC-1		RB-2	PT-1	PT-1	PT-1	PT-1		ACT-2	210A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
OFFICE	CPT-1-1		RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1	211	PRINT LOUNGE	CPT-1-1	RB-2	PT-1	PT-1	PT-1	PT-4/PT-6	RS-1	GYP (PT-6) / ACT-1
OFFICE	CPT-1-1		RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1	212	WOMEN'S RESTROOM	CT-1	CT-5	CT-2	CT-2/CT-3	EPT-1	EPT-1		GYP (PT-4) / ACT-1
OFFICE	CPT-1-1		RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1	212A		CT-1	CT-5	CT-2	PT-1	PT-1	PT-1		GYP
	CPT-1-1		RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1	∠13 212A		CONC-1	RB-2					KS-1	
FLEX LAB	CONC-1		RB-2	EPT-4	EPT-1	EPT-1	EPT-1		ACT-3	213A 213B		CDNC-1	RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-2
	CONC-1		RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED	213D	OFFICE	CPT-1-1	RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1
	CONC-1		RB-2							213D	OFFICE	CPT-1-1	RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1
								DS 1		213E	OFFICE	CPT-1-1	RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1
STORAGE			RD-2	PT-1	PT-1	PT-1	PT-2	R0-1	ACT-2	214	BIO LAB	CONC-1	RB-2	EPT-4	EPT-1	EPT-1	EPT-1		ACT-3
OFFICE	CPT-1		RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1	214A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
OFFICE	CPT-1		RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1	215	BIO LAB	CONC-1	RB-2	EPT-4	EPT-1	EPT-1	EPT-1		ACT-3
OFFICE	CPT-1		RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1	215A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1	50.4	EXPOSED
OFFICE	CPT-1		RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1	216	COLLAB.	CONC-1	RB-2					RS-1	ACT-1/GYP
FLEX LAB	CONC-1		RB-2	EPT-4	EPT-1	EPT-1	EPT-1		ACT-3	216A 216B		CONC-1	RB-2	P1-1 PT_1	PT-1	PT-1	PT-1	PS_1	ACT-2
CLOSET	CONC-1		RB-2	1 F PT-1	PT-1	PT-1	PT-)		EXPOSED	216B 216C	OFFICE	CPT-1-1	RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1
COLLAB.	CPT-1		RB-2	PT-2	PT-2	PT-2	PT-2	RS-1	ACT-1 / GYP	2160 216D	OFFICE	CPT-1-1	RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1
STORAGE	CONC-1		RB-2	PT-1	PT-1	PT-1	PT-1		ACT-2	216E	OFFICE	CPT-1-1	RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1
OFFICE	CPT-1		RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1	217	BIO LAB	CONC-1	RB-2	EPT-4	EPT-1	EPT-1	EPT-1		ACT-3
OFFICE	CPT-1		RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1	217A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
OFFICE	CPT-1		RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1	218	IT ROOM	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
OFFICE	CPT-1		RB-2	PT-1	PT-1	PT-1	PT-1	RS-1	ACT-1	219	COLLAB.	CONC-1	RB-2	<u>1</u> PT-2	PT-2	PT-2	PT-2		ACT-1 / GYP
	CONC-2		RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED	219A		CONC-1	RB-2	PT-1	- PT-1 -	- PT-1 -	PT-1		ACT-2
	CONC-2		RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED	219B 210C		CPT-1-1	RB-2			PT-1			
	CONC-1		RB-2	PI-1			PI-1		EXPOSED	2190		CPT-1-1	RB-2	PT-1	P1-1	PT-1	P1-1		
					EPT-1		EPT-1			219E	OFFICE	CPT-1-1	RB-2	PT-1	PT-1	PT-1	PT-1		ACT-1
			RD-2	EPT-1	EP1-1			PS-1		220	ELECTRICAL ROOM	CONC-2	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
CLOSET	CONC-1		RB-2	PT-1	PT-1	PT-1	PT-1	1.0-1	EXPOSED	221	BIO LAB	CONC-1	RB-2	EPT-4	EPT-1	EPT-1	EPT-1		ACT-3
FLEX LAB	CONC-1		RB-2	EPT-1	EPT-1	EPT-1	EPT-1	RS-1	ACT-3	221A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
CLOSET	CONC-1		RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED	222	CELL CULTURE LAB	CONC-1	RB-2	EPT-1	EPT-1	EPT-4	EPT-1		ACT-3
FLEX LAB	CONC-1		RB-2	EPT-1	EPT-1	EPT-4	EPT-1		ACT-3	222A		CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
CLOSET	CONC-1		RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED	223 2234	CLOSET	CONC-1	RB-2	EPI-4	EPI-1	EPI-1			ACT-3
FLEX LAB	CONC-1		RB-2	EPT-1	EPT-1	EPT-1	EPT-4	RS-1	ACT-3	224	CHEM LAB	CONC-1	RB-2	EPT-1	EPT-1	EPT-4	EPT-1		ACT-3
CLOSET	CONC-1		RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED	224A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
FLEX LAB	CONC-1		RB-2	EPT-1	EPT-1	EPT-4	EPT-1		ACT-3	225	CHEM LAB	CONC-1	RB-2	EPT-1	EPT-1	EPT-1	EPT-4	RS-1	ACT-3
CLOSET	CONC-1		RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED	225A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
FLEX LAB	CONC-1		RB-2	EPT-1	EPT-4	EPT-1	EPT-1	RS-1	ACT-3	226		CONC-1	RB-2	EPT-1	EPT-4	EPT-1	EPT-1	RS-1	ACT-3
CLOSET	CONC-1		RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED	226A		CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
FLEX LAB	CONC-1		RB-2	EPT-1	EPT-1	EPT-4	EPT-1		ACT-3	227 227A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		ACT-3 EXPOSED
	CONC-1		RB-2	PI-1		PI-1	PI-1		EXPOSED	228	CHEM LAB	CONC-1	RB-2	EPT-1	EPT-1	EPT-1	EPT-4	RS-1	ACT-3
	CONC-1		RB-2	EPI-1	EPI-1	EPI-1	EPI-4	RS-1		228A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
ELEXIAB			RD-2	FDT_1						229	BIO LAB	CONC-1	RB-2	EPT-1	EPT-1	EPT-4	EPT-1		ACT-3
CLOSET	CONC-1		RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED	229A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
									EXPOSED PTD. / GYP (PT-6) /	230		CONC-1	RB-2	EPT-1	EPT-4	EPT-1	EPT-1	RS-1	ACT-3
	CONC-1		ND-2	P1-1	GT-4/PT-1	FI-1/FI-0/AVVP-1	P1-1	K0-1	ACB-1	230A 231		CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
	CT-1		CT-5	EPT-1	CT-2/CT-3	CT-2	EPT-1		GYP (PT-4) / ACT-1	231A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
	CONC-1		RB-2	EPI-1	EPI-1	EPI-1	EPI-1		EXPOSED	232	CHEM LAB	CONC-1	RB-2	EPT-1	EPT-1	EPT-1	EPT-4	RS-1	ACT-3
			RB 2							232A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
FABLAB	CONC-1		RB-2	EPT-1					ΔCT-3	233	BIO LAB	CONC-1	RB-2	EPT-1	EPT-1	EPT-4	EPT-1		ACT-3
METAL SHOP	CONC-1		RB-2	FPT-1	FPT-1	FPT-1	FPT-1		EXPOSED PTD	233A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
1 -	20110-1									234		CONC-1	RB-2	EPT-1	EPT-4	EPT-1	EPT-1	RS-1	ACT-3
										234A 235	MEN'S RESTROOM	CUNC-1	КВ-2 СТ-5	PI-1 EDT_1	PI-1				
										236	BREAK ROOM	CONC-1	RB-2	PT-1	CT-4/PT-1	PT-1/PT-5/AW/P-1	PT-1	RS-1	EXPOSED / GYP (PT-1) / ACR-1
										237	DRY LAB	CONC-1	RB-2	EPT-1	EPT-1	EPT-4	EPT-1		ACT-3
										237A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED
										238	DRYLAB	CONC-1	RB-2	EPT-1	EPT-1	EPT-4	EPT-1		ACT-3
										238A	CLOSET	CONC-1	RB-2	PT-1	PT-1	PT-1	PT-1		EXPOSED

Seal:	Consultant:	Client:	PHASE:	DRAWN: R	EVIEWED: DAT	E: ID: REVISI	ON: DRAWN:	REVIEWED: DATE:	THESE DRAWINGS AND RENDERINGS ARE
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NORTH FLORIDA INNOVATION LABS

TALLAHASSEE, FLORIDA

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S1.02	STRUCTURAL NOTES	
S1.05	WINDLOAD DIAGRAMS	
S2.00	FOUNDATION PLAN	1
S2.10	FIRST FLOOR FRAMING PLAN	man and a start of the start of
S2.20	SECOND FLOOR FRAMING PLAN	
S2.30	ROOF FRAMING PLAN	
S2.40	HIGH ROOF FRAMING PLAN	
S3.01	WALL SECTIONS	
S3.02	WALL SECTIONS	
S3.03	WALL SECTIONS	
S3.31	STAIR SECTIONS	
S3.32	STAIR SECTIONS	
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S3.34	ELEVATOR SECTION & VERTICAL BRACING	
S3.41	STAIR DETAILS	
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S4.01	COLUMN SCHEDULE	
S5.01	TYPICAL SLAB ON GRADE DETAILS	
S5.02	TYPICAL FOUNDATION DETAILS AND SCHEDULES	
S5.03	FOUNDATION DETAILS	1
S5.11	MASONRY DETAILS	min
S6.01	STEEL DETAILS	
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S6.03	STEEL DETAILS	
S6.04	ROOF DETAILS	
S6.05	STEEL DETAILS	
<u>\$7.01</u>		\sim
S8.01	SITE RETAINING WALLS (SEPARATE PERMIT)	$\frac{1}{1}$









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Description: COVER SHEET

Sheet No.:





<u>PLA</u>	N NOTES:
1	4" CONCRETE SLAB ON GRA
2	6" CONCRETE SLAB ON GRA
3	8" CONCRETE SLAB ON GRA
4	6" MINIMUM THICKNESS SLA REINFORCE WITH WWR 4"x4 FLUTES
5	SLAB CONTROL JOINST SEE
6	SLAB ISOLATION JOINT SEE
7	STEP FOOTING, SEE TYPICA
8	POST FOR ROLL-UP DOOR
9	2#4x4'-0" CTR'D IN SLAB

FOUNDATION PLAN

ADE REINFORCE WITH WWR 6"x6x-W2.9xw2.9

RADE REINFORCE WITH 2 LAYERS OF WWR 6"x6"-W2.9xW2.9 ADE REINFORCE WITH 2 LAYERS OF WWR 4"x4"-W2.9xW2.9

LAB ON 2" - 20 GAGE G90 COMPOSITE STEEL DECK 'x4"-W4.0xW4.0 AND #4@12" BOTTOM PARALLEL TO DECK

EE TYPICAL DETAILS E TYPICAL DETAILS 2/S5.01 CAL DETAILS









DENOTES CONCRETE COLUMN

REFERENCE SHEETS

WALL SECTIONS	S3.0
WALL SECTIONS	S3.0
WALL SECTIONS	S3.0
STAIR SECTIONS	S3.3
STAIR SECTIONS	S3.3
VERTICAL BRACING	S3.3
ELEVATOR SECTION & VERTICAL BRACING	S3.3
STAIR DETAILS	S3.4
VERTICAL BRACING DETAILS	S3.4
VERTICAL BRACING DETAILS	S3.4
COLUMN SCHEDULE	S4.0
TYPICAL SLAB ON GRADE DETAILS	S5.0
TYPICAL FOUNDATION DETAILS AND SCHEDULES	S5.0
FOUNDATION DETAILS	S5.0
MASONRY DETAILS	S5.1
STEEL DETAILS	S6.0
STEEL DETAILS	S6.0
STEEL DETAILS	S6.0
ROOF DETAILS	S6.0
STEEL DETAILS	S6.0
LIGHT GAGE DETAILS	S7.0
SITE RETAINING WALLS (SEPARATE PERMIT)	S8.0



1/8" = 1'-0"



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		DAT	02/0								
5' - 6" 4' - 3 1/2"		ID: REVISION:	1 Code/Bid Comments								
	-(A)	: DATE:	07/30/2021	10/07/2021	12/09/2021				' KNOWLEDGE,	ECIFICATIONS APPLICABLE	NG CODES.
21' - 1"		: REVIEWED	csc	csc	csc				HE BEST OF MY	E PLANS AND SP MPLY WITH THE	MINIMUM BUILDII
xx _	R	DRAWN:	TLC	TLC	TLC				TOT	当 S	2
19' - 3"	-(B.4)	ij	N DEVELOPMENT	ONSTRUCTION DOCUMENTS	CONSTRUCTION DOCUMENTS	VDUM 1	VDUM 2				
k - k -	c	PHAS	DESIG	50% C	100% (ADDEN	ADDEN		-		
22' - 0" 108' - 2"	- C.5			nority	ſ					on Labs	
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	-(E.4)	AY INC Clie	INFERS	No. 674	te 7300	101 Tâ	0-222-9425		qoſ	Z	1
	F	nsultant: BIISS & NYITR.	STRUCTURAL ENGL	Certificate of Authorization N	227 N Bronough St., Suit	Tallahassee Florida, 323	T 850-222-4454 F 850	www.bniengineers.com	Jject #: 21414 / BNI No. 21T08		
		Arch 206 Talla 850, www	nite Wes ahas 942. 7.thir	cts at Vi see .171 nk30	Lev rgin , Flo 8 d.ne	wis lia S orida	+ \ St. a 32	Whi 230	tlock	Ę	





FOUNDATION PLAN




NO. 50812
hristopher S. Childers, P.E. Fla. Reg. No. 50812

3/4" = 1'-0"



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Description: FOUNDATION DETAILS

\$5.03

Sheet No.:

STRUCTURAL NOTES (FOR SITE WALL ONLY)

GENERAL NOTES		SD-7	The Contractor shall review and app
GN-1 The governing Code for this Project is referenced standard applies to this Pr	s the Florida Building Code, 7th Edition (2020). This Code prescribes which e roject.	edition of each	submittal requirements and is coordi Submittals not reviewed by the Cont
GN-2 To the best of our knowledge, the Strugoverning Building Code.	uctural Drawings and Specifications comply with the applicable requirements	s of the SD-8	Bliss & Nyitray (BNI) reviews submitt presented in the Contract Document changes to the contract sum Checki
GN-3 Construction is to comply with the req Local Codes, Standards, Regulations	uirements of the governing Building Code and all other applicable Federal, S and Laws.	State, and	from the Contract Documents and fro
GN-4 Use these Notes in conjunction with the governs.	he Plan Specifications or Project Specifications. If a conflict exists, the more	SD-9 stringent	BNI's review of Delegated Engineer signed and sealed by the Delegated specified structural criteria. No detail design including but not limited to th
GN-5 See Plan Specifications or Project Sp	ecifications for testing.	SD-1	0 BNI may transfer to the Contractor B
GENERAL NOTES - CONTRACTOR REQU	REMENTS		contractor shall email a request for E
GN-6 Contractor refers to the General Cont responsibility and supervision of the F	ractor, Construction Manager, or the organization that is assigned to have ov Project.	verall A	. This electronic data remains the prop shall not be used for other projects.
GN-7 The Contractor shall be solely respon procedures of construction, quality, an all OSHA requirements.	sible for, and have control over, the means, methods, supervision, technique nd correctness of the work. The Contractor is solely responsible for jobsite s	es, sequences, B. Bafety including C	 The Contractor is responsible for ass a conflict, the Contract Documents s The electronic data is current as of the Contractor may request updated electronic
GN-8 The Contractor shall coordinate all Co construction. Do not scale drawings; o proceeding with work. Do not change Engineer of Record.	ontract Documents with field conditions and dimensions and Project Shop Dr use only printed dimensions. Report any discrepancies in writing to the Archi size or location of structural members without written instructions from the S	rawings prior to D itect prior to Structural E	 The use of these electronic data sha checking and coordination of dimens accurate fabrication and erection. Do not scale dimensions since the electronic data sha
GN-9 Contractors who discover discrepanc notify the Architect. The Architect will	ies, omissions or variations in the Contract Documents during bidding shall in resolve the condition and issue a written clarification.	mmediately F.	Contractor shall indemnify, defend a including attorneys' fees, arising out
GN-10 The Contractor shall protect adjacent the condition of adjacent property with during construction.	property, his own work and the public from harm. The Contractor is advised n a photographic survey and other documentation, including crack monitoring	to document SHAL g, prior to and SF-1	LOW FOUNDATIONS
GN-11 The Structure is designed to be struct	turally sound when completed. The Contractor shall not overload the structur	re durina	Report #375-01-21-01 by Environme
construction. Prior to completion, the masonry walls. Wherever the Contrac Engineer to design and inspect the te	Contractor is responsible for stability and temporary bracing, including, but n ctor is unsure of these requirements, the Contractor shall retain a Florida Lice mporary bracing and stability of the structure.	ot limited to, SF-2 ensed	Footing sizes and reinforcing are bas fill, natural soil or rock prepared per t
GENERAL NOTES - DRAWINGS		SF-3	Subgrade preparation shall be field of Report. Subgrade preparation includ
GN-12 The Structural drawings shall be used including shop drawings prepared by	t in conjunction with the architectural drawings and all other drawings and do equipment suppliers and delegated engineers.	ocuments,	that Engineer shall prepare and subr indicating that the recommendations
GN-13 Openings shown on Structural Drawir depressions, slopes, curbs, finishes, a	ngs are only pictorial. See the Architectural for complete information such as and opening locations in structural members as required by MEP systems ar	SF-4 slab nd architectural	Foundation excavations shall be dry achieved.
elements.		SF-5	Provide waterproofing of undergrour
GN-14 Details labeled "typical" apply to all sit are keyed in at each location. Questic	tuations that are the same or similar to those specifically referenced, whethe ons regarding the applicability of typical details shall be resolved by the Archi	r or not they SF-6 itect.	Center all footings under their respec
GN-15 See Architectural drawings for waterp	proofing details and requirements.	SF-7	Top of all footings is 2 feet below the
GENERAL NOTES - DESIGN LOADS		EXCA	AVATION, BACKFILL AND DEWATER
GN-17 Design Loads:		EB-1	The Contractor is solely responsible property, structures, streets and utilit regulations. Do not excavate within c
OCCUPANCY Planter Wet Soil Density	<u>LIVE LOAD</u> 100 pcf		properly protected against settlemen
GN-18 Handrails and Guards:		EB-2	For basement walls, do not backfill a braced.
Linear Loading 50 lb Concentrated Loading 200 Intermediate Rails 50 lb Applied Area 1 sf	os/ft Ibs os	EB-3	Do not backfill cantilevered retaining backfill until after completion and ins
Loads shall be applied to act in any di and concentrated loading shall not be Glass in handrails and guards shall be	irection at any point on the handrail or top rail to produce the maximum load applied concurrently. e designed with a safety factor of 4.	EB-4 effect. Linear	In no case shall bulldozers or other h operate such equipment closer than expense shall provide adequate sup equipment.
GN-19 Design Flood Loads:		EB-5	The Contractor is responsible for the
Governing Code	FBC 7 th Edition (2020) / ASCE 24-14		
Flood Zone Base Flood Elevation	A +65.00 ft	RC 1	Comply with ACI 201 and 218 and P
Elevation of Lowest Horizontal Struct	ure +75.00 ft	RC-1	Provide structural concrete with a mi
		1.0-2	Flement Strengt
SD-1 Refer to the applicable Plan Specifica will be returned without review	tions or Project Specifications for technical content requirements. Incomplete	e submittals	ElementStrengtFootings3000 pPoured Walls4000 p
SD-2 Submit specific components such as	columns, footings, etc., in a single package. Submit similar floors together	RC-3	Use normal weight concrete for all st
SD-3 On first submittal, clearly flag and clou	ud all differences from the Contract Documents. On resubmittals, flag and clo	RC-4 oud all with a	Provide ASTM A615 Grade 60 reinfo appropriate bar supports and spacers.
 changes and additions to previous su SD-4 Submittals for special structural, load- by, or under the direct supervision of 	bmittal; only clouded items will be reviewed. bearing items that are required by Codes or Standards to resist forces must a Delegated Engineer. Examples include Structural Steel Connections. Stru	be prepared	<u>Element</u> Footings and Pile Caps Slabs on Grade
Formed Steel Framing, Exterior Enclo	osure Systems, Roof-top Unit Tie-downs, and Shoring and Reshoring.		Slabs Exposed to Weather Walls Retaining Fill & Column Pedes
SD-5 A Delegated Engineer is defined as a	Florida Licensed Engineer who specializes in and undertakes the design of	Structural	Walls Exposed to Weather

A Delegated Engineer is defined as a Florida Licensed Engineer who specializes in and undertakes the design of Structural Components or Structural Systems included in a specific submittal prepared for this Project and is an employee or officer of, or consultant to, the Contractor, Subcontractor, Fabricator, or Erector responsible for the submittal. The Delegated Engineer shall sign, seal and date the submittal, including calculations and drawings. See Plan Specifications or Project Specifications for more specific criteria.

SD-6 The Trade Contractor is responsible for confirming and correlating dimensions at the job sites, for tolerances, clearances, quantities, fabrication processes and techniques of construction, coordination of the work with other trades and full compliance with the Contract Documents.

prove submittals, including substitution requests and shop drawings, and shall sign and date the Architect. This approval is to confirm that the submittal is complete, complies with the linated with field dimensions, other trades, erection sequencing and constructability. tractor will be returned without review.

ittals to confirm that the submittal is in general conformance with the design concept nts. Quantities and dimensions are not checked. Notations on submittals do not authorize king of the submittal by BNI shall not relieve the Contractor of responsibility for deviations rom errors or omissions in the submittal.

r submittals is limited to verifying that the specified structural submittal has been furnished, Engineer and that the Delegated Engineer has understood the design intent and used the ailed check of calculations is made. The Delegated Engineer is solely responsible for his/her the accuracy of his/her calculations and compliance with the applicable codes and standards.

r BIM files, CAD files or other electronic data for use in preparing Shop Drawings. The BIM or CAD files along with an acknowledgement that he/she has read and agreed to the

perty of BNI, and in no case shall the transfer of these files be considered a sale. The files additions to this project, or for completion of this project by others. suring that the electronic data accurately represents the Contract Documents. In the event of shall govern. the date of transfer but may subsequently be revised or supplemented. If so, then the

ctronic data. all not modify Contractor's responsibility for coordination with other trades, or for the proper sions, details, member sizes and gage, and quantities of materials to facilitate complete and

electronic data may not be precise and, in some cases, have been intentionally altered for

and hold harmless BNI from all claims, damages, losses, expenses, penalties, and liabilities, ut of or resulting from the use of the electronic data by Contractor or others.

n and compaction are based on Geotechnical Investigation, Data and Recommendations in nental and Geotechnical Specialists, Inc. dated July 7, 2021.

ased on an allowable soil bearing capacity of 2500 psf. All footings shall bear on compacted r the Geotechnical Report.

Id controlled and tested by a Licensed Soils Engineer in accordance with the Geotechnical ludes placing fill soils on site for a set time prior to placing building foundations. At completion, ubmit to the Owner, Architect, Contractor and Structural Engineer a signed and sealed letter ons of the Geotechnical Report have been followed.

/ prior to placing concrete. Contact Geotechnical Engineer if a dry condition cannot be

und structural members as indicated on the Architectural drawings.

ective columns or walls, u.o.n.

e ground floor level, u.o.n.

RING

e for all excavation procedures including lagging, shoring, and protection of adjacent ities in accordance with the requirements of the local building department and OSHA one foot of the angle of repose of any soil bearing foundation unless the foundation is ent. Do not disturb adjacent wetlands areas, see Civil drawings for direction.

against walls until 7 days after the walls are braced by the structure or are temporarily

walls until concrete has attained 100% of its design strength and is 7 days old. Do not nspection of any waterproofing.

heavy equipment be permitted closer than 5 feet from any retaining wall. If it is necessary to in 8 feet to the wall, the Contractor shall be the sole responsible party and at their own pport or bracing of the wall to withstand the additional superimposed loads from such

disposal of all accumulated water in a manner that does not inconvenience or damage the

Plan Specifications or Specification Sections 031000, 032000 and 033000.

ninimum ultimate compressive design strength in 28 days as follows:

Walls - all others

structural drawings.

structural members. u.o.n.

forcing steel. Reinforcing shall be accurately placed, rigidly supported and firmly tied in place, . Lap continuous reinforcing 48 bar dia. Provide cover over reinforcing as follows:

	<u>Bottom</u> 3"	<u>Top</u> 2"	<u>Sides</u> 3"
	2"	1"	2"
	1 1/2"	1 1/2"	1 1/2"
stals			2"
	-	-	1 1/2"
	-	-	1"

RC-5 Provide construction joints in accordance with ACI 318, Section 26.5.6. Provide keyways and adequate dowels. Submit drawings showing location of construction joints and direction of pour for review.

RC-6 Provide 3/4" chamfer for all exposed corners.

RC-7 Provide reinforcing steel installer with a set of Structural Drawings for field reference. Inspect reinforcing steel placing from





SEE CIVIL DRAWINGS FOR LOCATION AND











Architects Lewis + Whitlock 206 West Virginia St. Tallahassee, Florida 32301 850,942.1718 www.think3d.net

Description: SITE RETAINING WALLS (SEPARATE PERMIT)

S8.01

Sheet No.:





- 1. FOR CLARITY, NOT ALL DEVICES ARE S PLANS. REFER TO FLOW DIAGRAMS, D DRAWINGS AND SPECIFICATIONS FOR REQUIRED DEVICES.
- 2. CONTRACTOR TO COORDINATE WITH A ENSURE ADEQUATE ACCESS IS PROVI MAINTAIN ALL AIR TERMINAL DEVICES DETECTORS, FIRE/SMOKE DAMPERS, DAMPERS, AIR FLOW STATIONS, AND CEILING EQUIPMENT. PROVIDE CEILII TO SERVICE EQUIPMENT LOCATED A AREAS. FOR BALANCING DAMPERS LO HARD CEILING AREAS, PROVIDE REMO VOLUME CONTROL DAMPERS - REFER SPECIFICATIONS.
- 3. ALL TERMINAL DEVICES (DIFFUSER, C SHALL HAVE MANUAL VOLUME DAMP DUCTWORK FOR BALANCING EACH D SERVED BY A SINGLE AIR DIFFUSER D FROM ITS RESPECTIVE AIR TERMINAL REQUIRE THE MANUAL VOLUME DAMF
- 4. DUE TO CEILING SPACE LIMITATIONS, THAT DUCT/PIPE/EQUIPMENT INSTALL/ COORDINATED WITH ALL TRADES PRIC INSTALLATION OF ANY ABOVE CEILING

<u>SHEET KEYNOTES</u>

- 1. CAP FE DUCT FOR FUTURE. 2. IN ROOMS WITH EXPOSED CEILINGS, I MAINS, BRANCHES AND FLEXIBLE DUC TO DIFFUSERS/GRILLES LEVEL AND A OR PERPENDICULAR TO THE AIR TER BUILDING STRUCTURE, WALLS AND C
- DUCTWORK AND TO PROVIDE CLEAN LOOK. 3. PROVIDE DOUBLE WALL DUCT CONST DUCT MAINS WITHIN THE ENTRY LOBE BRANCHES WHICH ARE VISIBLE TO VII ENTRY LOBBY. REFER TO SPECIFICA REQUIREMENTS.
- 4. 6Ø GE CONNECT TO SNORKEL ASSEM ARCHITECTURAL. BALANCE TO 80 CFM
- 5. PROVIDE MULTIPLE ACTIVE AND INACT SECTIONS JOINED END TO END TO FOF LINEAR DIFFUSER (APPROX. 42'-4" LONG ALL INACTIVE SECTIONS INSTALLED BE ACTIVE SLOTS.

Tioga Town Center 12921 SW 1st Road Ste 205 Newberry, Florida 32669 Tel 352.376.5500 Fax 352.375.3479 CA-5140 Engineer of Record Tyler Lowry Dykes FL P.E No. 75467				FILES, ARE THE PROPERTY OF ARCHITECTS:	LEWIS + WHITLOCK, PA.A. THEIR USE,	ANY PURPOSE EXCEPT BY WRITTEN		NOTIFICATION SHALL BE TRUE AS IF	DIRECTLY PLACED ON EACH DRAWING EXHIBIT OR RENDERING ON THIS		FROM THESE DOCUMENTS.
FOR CLARITY, NOT ALL DEVICES ARE SHOWN ON FLOOR PLANS. REFER TO FLOW DIAGRAMS, DETAILS, CONTROL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL	DATE:	02/09/22									
REQUIRED DEVICES. CONTRACTOR TO COORDINATE WITH ALL TRADES TO ENSURE ADEQUATE ACCESS IS PROVIDED TO PROPERLY MAINTAIN ALL AIR TERMINAL DEVICES. DUCT SMOKE	REVIEWED:										
DETECTORS, FIRE/SMOKE DAMPERS, CONTROL DAMPERS, AIR FLOW STATIONS, AND SIMILAR ABOVE CEILING EQUIPMENT. PROVIDE CEILING ACCESS PANELS TO SERVICE EQUIPMENT LOCATED ABOVE HARD CEILING AREAS. FOR BALANCING DAMPERS LOCATED ABOVE HARD CEILING AREAS, PROVIDE REMOTE OPERATED VOLUME CONTROL DAMPERS - REFER TO SPECIFICATIONS.	DRAWN:										
ALL TERMINAL DEVICES (DIFFUSER, GRILLES, ETC.) SHALL HAVE MANUAL VOLUME DAMPERS INSTALLED IN DUCTWORK FOR BALANCING EACH DEVICE. SPACES SERVED BY A SINGLE AIR DIFFUSER DONWSTREAM FROM ITS RESPECTIVE AIR TERMINAL DEVICE DO NOT REQUIRE THE MANUAL VOLUME DAMPER. DUE TO CEILING SPACE LIMITATIONS. IT IS IMPERATIVE	EVISION:	DDENDUM 4									
THAT DUCT/PIPE/EQUIPMENT INSTALLATION BE COORDINATED WITH ALL TRADES PRIOR TO INSTALLATION OF ANY ABOVE CEILING UTILITIES.	Ü	1 4									
	DATE:	07/30/21	10/07/21	12/09/21			-				
	REVIEWED:	RDC	RDC	RDC							
	DRAWN:	WB	WB	WB			_				
CAP FE DUCT FOR FUTURE. IN ROOMS WITH EXPOSED CEILINGS, ROUTE DUCT MAINS, BRANCHES AND FLEXIBLE DUCT CONNECTIONS TO DIFFUSERS/GRILLES LEVEL AND ALIGNED PARALLEL OR PERPENDICULAR TO THE AIR TERMINAL DEVICE, BUILDING STRUCTURE, WALLS AND CEILINGS. MINIMIZE BENDS AND KEEP FLEXIBLE DUCT ALIGNED AT CONNECTIONS TO DIFFUSERS/GRILLES AS SHOWN ON PLANS. MAINTAIN A HIGH LEVEL OF WORKMANSHIP IN EXPOSED AREAS TO FACILITATE PAINTING OF DUCTWORK AND TO PROVIDE CLEAN AND CONSISTANT LOOK. PROVIDE DOUBLE WALL DUCT CONSTRUCTION FOR ALL DUCT MAINS WITHIN THE ENTRY LOBBY AND FOR DUCT BRANCHES WHICH ARE VISIBLE TO VIEW WITHIN THE ENTRY LOBBY. REFER TO SPECIFICATIONS FOR REQUIREMENTS. 6Ø GE - CONNECT TO SNORKEL ASSEMBLY - REFER TO ARCHITECTURAL. BALANCE TO 80 CFM.	PHASE:	DESIGN DEVELOPMENT	50% CONSTRUCTION DOCUMENTS	100% CONSTRUCTION DOCUMENTS							
SECTIONS JOINED END TO END TO FORM CONTINUOUS LINEAR DIFFUSER (APPROX. 42'-4" LONG). BLANK OFF ALL INACTIVE SECTIONS INSTALLED BETWEEN THE ACTIVE SLOTS.	Client:		Leon County K&D Authority		I allahassee, Florida			Job Title:	North Elorida Innovation Labe		
	Consultant:		ATTIIIated Engineers, Inc. 19921 SW 1st Road Ste 205	Newberry, FL 32669	Tel 352.376.5500	CA-5140	_			Construction Documents	
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- 1. FOR CLARITY, NOT ALL DEVICES ARE S PLANS. REFER TO FLOW DIAGRAMS, D DRAWINGS AND SPECIFICATIONS FOR REQUIRED DEVICES.
- 2. CONTRACTOR TO COORDINATE WITH A ENSURE ADEQUATE ACCESS IS PROVI MAINTAIN ALL AIR TERMINAL DEVICES DETECTORS, FIRE/SMOKE DAMPERS, DAMPERS, AIR FLOW STATIONS, AND CEILING EQUIPMENT. PROVIDE CEILIN TO SERVICE EQUIPMENT LOCATED A AREAS. FOR BALANCING DAMPERS LO HARD CEILING AREAS, PROVIDE REMO VOLUME CONTROL DAMPERS - REFER SPECIFICATIONS.
- 3. ALL TERMINAL DEVICES (DIFFUSER, C SHALL HAVE MANUAL VOLUME DAMPE DUCTWORK FOR BALANCING EACH DE SERVED BY A SINGLE AIR DIFFUSER D FROM ITS RESPECTIVE AIR TERMINAL REQUIRE THE MANUAL VOLUME DAMF
- 4. DUE TO CEILING SPACE LIMITATIONS, THAT DUCT/PIPE/EQUIPMENT INSTALL/ COORDINATED WITH ALL TRADES PRIC INSTALLATION OF ANY ABOVE CEILING

SHEET KEYNOTES

- 1. CAP FE DUCT FOR FUTURE CONNECTI HOODS WHERE BIOSAFETY CABINETS LOCATED.
- 2. PROVIDE DOUBLE WALL DUCT CONST DUCT MAINS WITHIN THE BALCONY, A BRANCHES WHICH ARE VISIBLE TO VI BALCONY. REFER TO SPECIFICATION REQUIREMENTS.
- PROVIDE MULTIPLE ACTIVE AND INACT SECTIONS JOINED END TO END TO FOR - 3 LINEAR DIFFUSER (APPROX. 44'-10" LC ALL INACTIVE SECTIONS INSTALLED ACTIVE SLOTS.
- 6Ø GE CONNECT TO SNORKEL ASSEM ARCHITECTURAL. BALANCE TO 80 CFM 5. IN ROOMS WITH EXPOSED CEILINGS, I MAINS, BRANCHES AND FLEXIBLE DUC TO DIFFUSERS/GRILLES LEVEL AND A
- OR PERPENDICULAR TO THE AIR TERI BUILDING STRUCTURE, WALLS AND CE BENDS AND KEEP FLEXIBLE DUCT ALIG CONNECTIONS TO DIFFUSERS/GRILLES PLANS. MAINTAIN A HIGH LEVEL OF W EXPOSED AREAS TO FACILITATE PAIN DUCTWORK AND TO PROVIDE CLEAN LOOK.
- 6. 10Ø FE DN WITH CONNECTION TO FUN 7. 8Ø FE DN WITH CONNECTION TO FUM
- 8. PROVIDE FULLY WELDED 304L SS BRAI FROM GE AIR VALVE TO EXHAUST GRI FROM AIR VALVE TO EXHAUST GRILLE

Tioga Town Center 12921 SW 1st Road Ste 205 Newberry, Florida 32669 Tel 352.376.5500 Fax 352.375.3479 CA-5140 Engineer of Record Tyler Lowry Dykes FL P.E No. 75467		INSTRUMENTS OF SERVICE. THE DRAWINGS	AND ASSOCIATED COPIES THEREOF , INCLUDING FLECTRONIC MEDIA AND CADD	FILES, ARE THE PROPERTY OF ARCHITECTS:	LEWIS + WHITLOCK, PA.A. THEIR USE, REPRESENTATION OR REPRODI ICTION FOR	ANY PURPOSE EXCEPT BY WRITTEN	AGREEMENT WITH THE ARCHITECT IS	NOTIFICATION SHALL BE TRUE AS IF	DIRECTLY PLACED ON EACH DRAWING EXHIBIT OR RENDERING ON THIS	DOCUMENT AND SHALL NOT BE REMOVED	FROM THESE DOCUMENTS.
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	Consultant:	Affiliated Engineers Inc	12921 SW 1st Road Ste 20	Newberry, FL 32669	Tel 352.376.5500	CA-5140	_		Ŧ	6 Construction Documents	
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- 1. FOR CLARITY, NOT ALL DEVICES SHOW PLANS. REFER TO FLOW DIAGRAMS, CO DRAWINGS AND DETAILS FOR ADDITION 2. CONTRACTOR TO COORDINATE WITH A
- ENSURE ADEQUATE ACCESS IS PROVIDE MAINTAIN ALL AIR TERMINAL DEVICES, D DETECTORS, FIRE/SMOKE DAMPERS, CO DAMPERS, AIR FLOW STATIONS, AND SI CEILING EQUIPMENT. PROVIDE CEILING TO SERVICE EQUIPMENT LOCATED ABO AREAS. FOR BALANCING DAMPERS LOC HARD CEILING AREAS, PROVIDE REMOT VOLUME CONTROL DAMPERS - REFER T SPECIFICATIONS.
- 3. REFER TO ROOFTOP AIR HANDLING UNIT SECTIONS FOR VIBRATION ISOLATION CI REQUIREMENTS. ROOF CURBS AND DUC SHALL BE DESIGNED BY DELEGATED EN CONTRACTOR SHALL COORDINATE INSU THICKNESS AND CRICKETS AROUND EQ AND ELEVATED DUCT SUPPORTS. SEE A ROOF PLAN FOR SLOPES.
- 4. UNIT ASSEMBLY, STRUCTURAL CONNEC SUPPORTS SHALL BE DESIGNED AND ST PROFESSIONAL ENGINEER IN THE STAT MEET FLORIDA BUILDING CODE REQUIR WITHSTAND SUSTAINED FORCE GENER APPLICABLE WIND SPEEDS. REFER TO S DRAWINGS FOR WIND LOAD DESIGN CR mm

SHEET KEYNOTES

- 1. FAN SHOWN FOR FUTURE INSTALLATION PLENUM, BYPASS DAMPERS, CURB, AND SIZED TO ACCOMODATE FUTURE INSTAL
- 2. PROVIDE ROOF DUCT CURB WITH INSULA COVER. EXTEND FE DUCT RISER UP THE TERMINATE CAPPED AT UNDERSIDE OF FOR FUTURE CONNECTION TO FUME EX
- -(OA) 3. SUPPORT EXHAUST DUCTWORK FROM S REFER TO STRUCTURAL DRAWINGS FO DETAIL.
 - 4. UNIT MANUFACTURER SHALL PROVIDE I ACCESS DOOR.

Affiliated Engineers 1st Road Ste 205 Florida 32669 6.5500 Fax 352.375.3479 f Record y Dykes FL P.E No. 75467		INSTRUMENTS OF SERVICE. THE DRAWINGS	AND ASSOCIATED COPIES THEREOF , INCLITIONG FLECTRONIC MEDIA AND CADD	FILES, ARE THE PROPERTY OF ARCHITECTS:	LEWIS + WHITLOCK, PA.A. THEIR USE, REPRESENTATION OR REDRODI ICTION FOR	ANY PURPOSE EXCEPT BY WRITTEN	AGREEMENT WITH THE ARCHITECT IS PROHIBITED THIS COPVRIGHT	NOTIFICATION SHALL BE TRUE AS IF	DIRECTLY PLACED ON EACH DRAWING EXHIBIT OR RENDERING ON THIS	DOCUMENT AND SHALL NOT BE REMOVED	FROM THESE DOCUMENTS.
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Architects Lewis + Whitlock 206 West Virginia St. Tallahassee, Florida 32301 850,942.1718 www.think3d.net

Description: Roof Mechanical Plan

Sheet No.: M2.3



WORKSTATION				L	ORMATION				
			POINT TYPE				ALARM		
						C	ONDITIO	N	
TAG	POINT DESCRIPTION	UNITS	ANALOG	DIGITAL	INTEGRATED	EQUIP. ALARM	HIGH LIMIT	ΓΟΨ ΓΙΜΙΤ	
HARDWARE									
CY 01	ROOFTOP UNIT COMMAND	START/STOP		Х					
CY 02	UV LIGHT COMMAND	START/STOP		Х					
IS 01	ROOFTOP UNIT STATUS	ON/OFF		Х					
IS 02	UV LIGHT STATUS	ON/OFF		Х					
PDSH 01	OUTSIDE AIR FILTER STATUS	CLEAN/DIRTY		Х					
PDSH 02	OUTSIDE AIR FILTER STATUS	CLEAN/DIRTY		Х					
PDSH 03	EXHAUST AIR FILTER STATUS	CLEAN/DIRTY		Х					
TE 01	SUPPLY AIR TEMPERATURE	DEG F	X						
SOFTWARE									
SDP	SYSTEM ENABLE	ON/OFF		Х					
SDP	SUPPLY FAN STATIC PRESSURE	IN WG			Х				
SDP	EXHAUST FAN STATIC PRESSURE	IN WG			Х				
SDP	SUPPLY AIRFLOW	CFM			Х				
SDP	EXHAUST AIRFLOW	CFM			Х				

100% OUTSIDE AIR UNIT - CONTROL SEQUENCE A. GENERAL:

- 1. VARIABLE AIR VOLUME (VAV) AIR HANDLING SYSTEM DISTRIBUTES AIR TO VAV VALVES AND AIR TERMINAL UNITS. SYSTEM SHALL OPERATE 24 HOURS PER DAY, 365 DAYS PER YEAR. 2. REHEAT TEMPERATURE CONTROL SEQUENCES SHALL ALWAYS BE ACTIVE. B. START UP:
- 1. UPON START UP COMMAND: a. OUTSIDE AIR AND SUPPLY ISOLATION DAMPERS OPEN FULLY.
- b. SUPPLY FAN VFD'S START SUPPLY FANS; EACH VFD AND FAN ARE PROVEN. c. EXHAUST FAN VFD'S START EXHAUST FANS; EACH VFD AND FAN ARE PROVEN.
- d. SUPPLY STATIC PRESSURE CONTROL SEQUENCE ACTIVATES. e. EXHAUST FAN CONTROL SEQUENCE ACTIVATES.
- f. SUPPLY FAN STATIC PRESSURE RESET SEQUENCE ACTIVATES. g. AHU TEMPERATURE CONTROL SEQUENCES ACTIVATE.
- h. ENERGY RECOVERY WHEEL CONTROL SEQUENCE ACTIVATES. C. OCCUPIED:
- 1. UPON OCCUPIED COMMAND: a. SPACE OCCUPIED SETPOINTS ARE ACTIVATED.
- D. UNOCCUPIED: 1. UPON UNOCCUPIED COMMAND, VIA SCHEDULE OR OPERATOR, THE FOLLOWING OCCURS:
- a. SPACE UNOCCUPIED SETPOINTS ARE ACTIVATED. E. SHUT DOWN: 1. UPON SHUT DOWN COMMAND:
- a. SUPPLY FANS STOP. b. OUTSIDE AIR AND SUPPLY DAMPERS CLOSE.
- c. ALL OTHER SEQUENCES DISABLE. d. ASSOCIATED EXHAUST FANS STOP.
- e. NUISANCE ALARMS ARE SUPPRESSED. F. SUPPLY FAN STATIC PRESSURE CONTROL:
- 1. VFD CONTROLS THE SUPPLY FAN SPEED. 2. SUPPLY FAN VFD SPEED MODULATES TO MAINTAIN SUPPLY DUCT STATIC PRESSURE SETPOINT.
- G. SUPPLY DUCT STATIC PRESSURE RESET: 1. PERFORM EVERY 15 MINUTES (ADJ)
- 2. IF ANY VAV VALVE/BOX DAMPER COMMAND IS GREATER THAN 90% (ADJ), INCREASE DUCT STATIC PRESSURE SETPOINT BY 0.1 IN.WG.
- 3. IF ALL VAV VALVE/BOX DAMPER COMMANDS ARE LESS THAN 60% (ADJ), DECREASE DUCT STATIC PRESSURE SETPOINT BY 0.1 IN.WG.





GENERAL NOTES

- 1. COORDINATE THE INSTALLATION AND FINAL LOCATION OF INSTRUMENTS WITH OTHER TRADES.
- 2. VERIFY ALL CABLE REQUIREMENTS PRIOR TO TERMINATING.
- 3. PROVIDE FINAL I/O ADDRESS, CABLE TAGS, MEDIUM TYPE, ETC.
- 4. SETPOINTS, TIMERS, DELAYS AND ALARM LIMITS ARE ADJUSTABLE AND SHALL BE COORDINATED WITH TAB ENGINEER, MECHANICAL SCHEDULES AND CONTROL DIAGRAMS.
- PROVIDE ALL LABOR, MATERIALS, 5. SERVICES, EQUIPMENT, AND DEVICES NECESSARY FOR A COMPLETE, FULLY FUNCTIONAL BUILDING AUTOMATION SYSTEM AS INTENDED IN THE SEQUENCES OF OPERATION, SPECIFICATIONS, AND CONTROL DRAWINGS.

SHEET KEYNOTES **(#)**

- 1. DEVICE FURNISHED BY UNIT MANUFACTURER AND INSTALLED BY CONTROLS CONTRACTOR.
- 2. ROOFTOP UNIT MANUFACTURER'S CONTROLS.
- 3. REFER TO DIVISION 26 FOR DUCT SMOKE DETECTOR

- H. EXHAUST FAN CONTROL: 1. VFD CONTROLS THE EXHAUST FAN SPEED.
- 2. EXHAUST FAN VFD SPEED MODULATES TO MAINTAIN EXHAUST DUCT STATIC PRESSURE SETPOINT. I. DX COOLING COIL TEMPERATURE CONTROL:
- 1. AHU CONTROLS MODULATE TO MAINTAIN THE COOLING COIL LEAVING AIR TEMPERATURE SETPOINT.
- 2. AHU CONTROLS ACTIVATE REHEAT TO MAINTAIN LEAVING AIR TEMPERATURE SETPOINTS. J. DX COOLING COIL TEMPERATURE RESET CONTROL:
- 1. RESET SEQUENCE IS ONLY ACTIVE WHEN STATIC PRESSURE SETPOINT IS AT MINIMUM. 2. RESET THE COOLING COIL LEAVING AIR TEMPERATURE SETPOINT BASED ON THE FOLLOWING SCHEDULE:
- a. 50% (ADJ) OF THE ZONES SERVED HAVE A REHEAT VALVE COMMAND AT 75% (ADJ) OR HIGHER: INCREASE LAT 1 DEG
- F EVERY 10 MINUTES (ADJ) UNTIL 75% (ADJ) OF ZONE REHEAT COIL COMMANDS ARE BELOW 65% (ADJ). b. 75% (ADJ) OF THE ZONES SERVED HAVE A REHEAT VALVE COMMAND AT 25% (ADJ) OR LOWER: DECREASE LAT 1 DEG
- F EVERY 10 MINUTES (ADJ) UNTIL 50% (ADJ) OF ZONE REHEAT COIL COMMANDS ARE ABOVE 35% (ADJ). 3. COOLING COIL TEMPERATURE RESET STOPS WHEN ANY ZONE HUMIDITY SENSOR MEASURES 50% RH OR GREATER.
- K. REHEAT COIL TEMPERATURE CONTROL: 1. REHEAT COIL VALVE MODULATES TO MAINTAIN REHEAT COIL LEAVING AIR SETPOINT.
- L. ENERGY RECOVERY WHEEL CONTROL
- 1. WHEEL OPERATES AT CONSTANT SPEED . 2. WHEN OUTSIDE AIR TEMPERATURE IS EQUAL TO OR LESS THAN 75 DEGREES FDB (ADJ) AND WITH AN ENTHALPY BELOW 27.4 BTU/LB DA, OR GREATER THAN 55 DEGREES FDB (ADJ), STOP WHEEL AND OPEN OUTSIDE AIR AND EXHAUST BYPASS DAMPERS.
- 3. IF THE ENERGY RECOVERY WHEEL FAILS, OPEN OUTSIDE AIR AND EXHAUST AIR BYPASS DAMPERS. M. SAFETIES:
- 1. THE FOLLOWING SAFETIES SHUT DOWN THE SUPPLY, RETURN AND EXHAUST FANS AND ACTIVATE THE SHUTDOWN SEQUENCE. a. HIGH SUPPLY AIR STATIC PRESSURE.
- b. LOW EXHAUST AIR STATIC PRESSURE. c. OUTSIDE AIR/SUPPLY ISOLATION DAMPER END SWITCH.
- N. EMERGENCY POWER OPERATION 1. UPON RECEPTION OF THE ATS PRE-TRANSFER SIGNAL, UNIT MANUFACTURER CONTROLLER SHALL REDUCE LOAD TO 45%
- OF TOTAL CAPACITY.
- 2. DEACTIVATE EMERGENCY TURN DOWN OPERATION AT THE RETURN OF NORMAL POWER.

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Description: Mechanical Controls

Sheet No.: M7.3





CSW DI RO 	COLD SOFT WATER NON-POTABLE WATER DEIONIZED WATER REVERSE OSMOSIS WATER HIGH PURITY WATER TRAP FILLER LINE	OD FM CRW	OVERFLOW DRAIN FORCE MAIN CORROSION RESISTANT WASTE
	<u>GASES</u>		VENT
AR CA CO2 LA LA LA 100 NG	ARGON COMPRESSED AIR CARBON DIOXIDE LABORATORY COMPRESSED AIR LABORATORY COMPRESSED AIR NATURAL GAS	— — ·V· — — — — CRV— —	VENT CORROSION RESISTANT VENT

			PIPING SY
<u>SINGLE</u>	DOUBLE		
`		ELBOW DOWN	
O		ELBOW UP	
		BOTTOM CONNECTION (45° OR 90°)	
U		TOP CONNECTION (45° OR 90°)	
D	2007	45° PIPE RISE(R) / DROP(D)	
,∔ 		TEE (REFER TO SPECIFICATION FOR SIDE, TOP OR BOTTOM TEE) LINE CONTINUATION BREAK	ζ
_		FLOW DIRECTION	
		ECCENTRIC REDUCER	
		CONCENTRIC REDUCER	

YMBOLS

	FLOOR DRAIN/FLOOR S
\oslash	ROOF DRAIN
Ø	HUB DRAIN



PIPING SYMBOLS AND ABBREVIATIONS

PIPE FITTINGS, VALVES, & SPECIALTIES

		EXPANSION JOINT
	-	PIPE FLEXIBLE CONNECTION
E		DIRECTION OF PITCH (DOWN)
		GENERAL PIPELINE STRAINER WITHOUT DRAIN
Ξ		WATER SYSTEM PIPELINE STRAINER
	_ <u>`</u>	PIPE GUIDE
CING VALVE		PIPE SLEEVE
	— x —	ANCHOR
/E	—	FLANGE
IIXING VALVE	 ⊢	UNION
ENDING VALVE]	PIPE CAP
	—ŢŢ—	FILTER
F VALVE		THERMOMETER
AL	Ŷ	PRESSURE GAUGE (WITH GAUGE VALVE)
PRESSURE / PREVENTER	—_[M]—_	WATER METER
HECK BACKFLOW		WATER HAMMER ARRESTOR
R		PRESSURE OR VACUUM SWITCH
		HEAT TRACE TERMINATION POINT
		HEAT TRACE POWER CONNECTION POINT
	-	HOSE BIBB
	+	WALL HYDRANT
	-+	OUTLET
		FLOW SENSING DEVICE

DRAINS AND CLEANOUTS

SINK		FIXTURE WASTE TRAP CLEANOUT
	FCO O	FLOOR CLEANOUT

A AAP ACC ACFM ADB ADJ AFF ALT AMPS AP APPROX ARCH ASME ASSY	 AIR AREA ALARM PANEL ACCESS ACTUAL CUBIC FEET PER MINUTE ACID DILUTION BASIN ADJUSTABLE ABOVE FINISHED FLOOR ALTERNATE AMPERES ACCESS PANEL APPROXIMATE ARCHITECTURAL AMERICAN SOCIETY OF MECHANICAL ENGINEERS ASSEMBLY
BHP BLDG BOP BT BT BTU BTUH BTWN	 BRAKE HORSEPOWER BUILDING BOTTOM OF PIPE ELEVATION BOTTOM BATHTUB BRITISH THERMAL UNIT BRITISH THERMAL UNITS PER HOUR BETWEEN
CA CFCI CFM CLG CM CMU CO CO2 CONN CONTR CORR CS	 COMPRESSED AIR CONTRACTOR FURNISHED CONTRACTOR INSTALLED CUBIC FEET PER MINUTE CEILING COFFEE MAKER CONCRETE MASONRY UNIT CLEANOUT CARBON DIOXIDE CONNECTION / CONNECT CONTRACTOR CORRIDOR CLINICAL SINK / COLD SOFT WATER / CUP SINK
CTR CU CRVTR CWW	 CENTER COPPER CORROSIVE VENT THROUGH ROOF CLEARWATER WASTE
D DCW DET DFU DHR DHW DIA DIM DISCH DN DS DW DWG	 DEPTH / DRAIN LINE DOMESTIC COLD WATER DETAIL DRAINAGE FIXTURE UNIT DOMESTIC HOT WATER RETURN DOMESTIC HOT WATER DIAMETER DIMENSION DISCHARGE DOWN / DOWNSPOUT NOZZLE DOWNSPOUT DISHWASHER DRAWING
EA EEW EFF EJ ELEC ELEV EQUIP ET ETR ES EWC EWT EXP EXT	 EACH EMERGENCY EYEWASH EFFICIENCY EXPANSION JOINT ELECTRICAL ELEVATION EQUIPMENT EXPANSION TANK EXISTING TO REMAIN EMERGENCY SHOWER ELECTRIC WATER COOLER ENTERING WATER TEMPERATURE EXPANSION EXPANSION EXTERIOR
°F FCO FD FLA FLR FM FP FPM FS FSEC FT FTHD FTG	 FAHRENHEIT FLOOR CLEANOUT FLOOR DRAIN FULL LOAD AMPERES FLOOR FORCE MAIN FIREPROOF FEET PER MINUTE FLOOR SINK FOOD SERVICE EQUIPMENT CONTRACTOR FEET FEET FEET HEAD FOOTING
G GA GAL GALV GC GPH GPM	 GAS GAUGE GALLON GALVANIZED GENERAL CONTRACTOR GALLONS PER HOUR GALLONS PER MINUTE
HB HD HP HR HT HTR HVAC HZ	 HOSE BIBB HUB DRAIN HORSEPOWER HOSE REEL HEAT TRACE HOT WATER HEATER HEATING, VENTILATING, & AIR CONDITIONING HERTZ
ID IE IM IN IN WC IW	 INSIDE DIAMETER INVERT ELEVATION ICE MAKER INCHES INCHES WATER COLUMN INDIRECT WASTE
JS KW	- JANILUKS SINK - KILOWATT

ABBREVIATIONS

L LA LAV LBS LTG LWT	 LENGTH LABORATORY COMPRESSED AIR LAVATORY POUNDS LIGHTING LEAVING WATER TEMPERATURE
MAP MAX MB MBH MC MEZZ MFR MH MIN MISC MTD MTG	 MASTER ALARM PANEL MAXIMUM MOP BASIN ONE THOUSAND BTUH MECHANICAL CONTRACTOR MEZZANINE MANUFACTURER MANHOLE MINIMUM / MINUTE MISCELLANEOUS MOUNTED MOUNTING
NC NIC NO NOM NPSH NPT NTS	 NORMALLY CLOSED NOT IN CONTRACT NUMBER NOMINAL NET POSITIVE SUCTION HEAD NATIONAL PIPE THREAD NOT TO SCALE
OC OCP OD OFCI OFOI	 ON CENTER OVERHEAD CEILING PANEL OUTSIDE DIAMETER / OVERFLOW DRAIN OWNER FURNISHED, CONTRACTOR INSTALLED OWNER FURNISHED, OWNER INSTALLED
P PC PH PIV PLBG PRESS PRV PSF PSI PSIG PW	 PUMP PLUMBING CONTRACTOR PHASE POST INDICATOR VALVE PLUMBING PRESSURE PRESSURE REDUCING VALVE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH GAUGE PURE WATER
R RAD REC RECPT REF REQD RI RPM RV	 RADIUS REFRIGERATED AIR DRYER ROOF DRAIN RECESSED RECEPTACLE REFERENCE REQUIRED ROUGH-IN REVOLUTIONS PER MINUTE RELIEF VALVE
S SAN SCH SCFM SD SF SH SHT SPEC SQ SR S/S STD STRU SUCT	 STORM SANITARY SCHEDULE STANDARD CUBIC FEET PER MINUTE SUBSOIL DRAIN SQUARE FEET SHOWER SHEET SPECIFICATION SQUARE SERVICE RECEPTOR STAINLESS STEEL STRUCTURAL / STRUCTURE SUCTION
TD TDH TEMP TMV TOB TOD TOJ TOS TF TP TYP	 TRENCH DRAIN TOTAL DYNAMIC HEAD TEMPERATURE THERMOSTATIC MIXING VALVE TOP OF BEAM TOP OF DECK TOP OF JOIST TOP OF SLAB / TOP OF STEEL TRAP FILLER TRAP PRIMER TYPICAL
UR V VAC VEL VFD VOL VTR	 URINAL VENT / VOLTS VACUUM VELOCITY VARIABLE FREQUENCY DRIVE VOLUME VENT THRU ROOF
W W/O WAGD WB WC WCO WGE WH WHA WHTR WSFU X	 WASTE / WATER WITH WITHOUT WASTE ANESTHETIC GAS DISPOSAL WALL BOX WATER CLOSET WALL CLEANOUT WASTE GAS EXHAUST WALL HYDRANT WATER HAMMER ARRESTOR WATER HEATER WATER SUPPLY FIXTURE UNIT EXISTING
YCO	- YARD CLEANOUT

- ZVB ZONE VALVE BOX

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TAG	SERVICE	LOCATION	BASIS OF DESIGN	CAPACITY	MAX	MOT	OR			RE
			MANUFACTURER AND MODEL	(CFM)	PRESSURE	HP	VOLT	PH	VFD	
					(PSIG)					
AC-1	COMPRESSED	MECHANICAL ROOM	POWEREX	70.8	145	10 (2)	460	3	NO	OIL
	AIR		OTD100							240
	TAG AC-1	TAG SERVICE AC-1 COMPRESSED AIR	TAG SERVICE LOCATION AC-1 COMPRESSED MECHANICAL ROOM AIR AIR	TAG SERVICE LOCATION BASIS OF DESIGN AC-1 COMPRESSED MECHANICAL ROOM POWEREX AIR OTD100	TAGSERVICELOCATIONBASIS OF DESIGN MANUFACTURER AND MODELCAPACITY (CFM)AC-1COMPRESSEDMECHANICAL ROOMPOWEREX OTD10070.8	TAG SERVICE LOCATION BASIS OF DESIGN CAPACITY MAX MANUFACTURER AND MODEL (CFM) PRESSURE AC-1 COMPRESSED MECHANICAL ROOM POWEREX 70.8 145 AIR OTD100 OTD100 OTD100 OTD100 OTD100	TAGSERVICELOCATIONBASIS OF DESIGN MANUFACTURER AND MODELCAPACITY (CFM)MAX PRESSURE (PSIG)MOT HPAC-1COMPRESSEDMECHANICAL ROOMPOWEREX OTD10070.814510 (2)	TAGSERVICELOCATIONBASIS OF DESIGN MANUFACTURER AND MODELCAPACITY (CFM)MAX PRESSURE (PSIG)MOTORAC-1COMPRESSEDMECHANICAL ROOMPOWEREX OTD10070.814510 (2)460	TAGSERVICELOCATIONBASIS OF DESIGN MANUFACTURER AND MODELCAPACITY (CFM)MAXMOTORAC-1COMPRESSEDMECHANICAL ROOMPOWEREX AIR70.814510 (2)4603	TAGSERVICELOCATIONBASIS OF DESIGN MANUFACTURER AND MODELCAPACITY (CFM)MAX PRESSURE (PSIG)MOTORAC-1COMPRESSEDMECHANICAL ROOMPOWEREX OTD10070.814510 (2)4603NO

	1		1		l	1						
TAG	LOCATION	SERVICE	BASIS OF DESIGN	CAPACITY	OPERATING	RATED	PRESS.	AIR CONNE	CTIONS	POWER		
			(MANUFACTURER)	(SCFM)	PRESSURE	PRESSURE	DEWPT.	INLET	OUTLET	VOLT	PH	HP
			(MODEL NUMBER)	(STD)	(PSIG)	(PSIG)	(°F)	(IN)	(IN)			
AD-1	MECHANICAL	CA	SPXFLOW	75	100	150	40	3/4	3/4	115	1	1
			HPRN75									
AD-2	MECHANICAL	CA	SPXFLOW	75	100	150	40	3/4	3/4	115	1	1
			HPRN75									

					MANUFACTUF	RER AND M	IODEL	(CFM)	PRESS (PSIC	URE	HP	VOLT	PH	VFD	
CON	/IPRESSED AIR	MECH	IANICAL RO	OOM	POV OT	VEREX D100		70.8	145	- /	10 (2)	460	3	NO	OIL LESS RECIPROCATING PISTON COMPRESSOR, DUPLE> 240 GAL TANK MOUNTED
															AIR DRYERS
		BASIS OF	DESIGN			DATED				10					
CATION	JERVICE											г т			
					(PSIG)	(PSIG)					VOL				
	СА	SPXFI	OW OW	75	100	150	4	0 3/4	3	/4	115		1	1	
		HPRN	175					-							
HANICAL	CA	SPXFL	.ow	75	100	150	40	0 3/4	3	/4	115	;	1	1	REFRIGERATED, NON-CYCLING
		HPRN	175												
TAG	NA	AME	LO	CATION	BASIS OF DE (MANUFACTU (MODEL NUM	SIGN CAP RER) BER)	PACITY	PRESSURE BOOST (PSI)	HP	MOTO	DR T	PH	REM.	ARKS	DEIONIZED WATER EQUIPMENT
					((
HPW-1	1 PRODUC	TION SKID	MECHAN	NICAL ROOM	CULLIGAI	N (GPM	-	-	-		-	WAT	ER SOI	FTENER, CARBON FILTER
HPW-2	2 REVERSE	EOSMOSIS	MECHAN	NICAL ROOM	CULLIGAI	N	1.0	-	0.75	115	5	1	VER	TICAL,	SINGLE PASS, 50% RECOVERY
	U	NIT			G1	0	GPM								
HPW-3	3 DISTRIBL	JTION SKID	MECHAN	NICAL ROOM	CULLIGAI	N ()	2) 25 GPM	75	(2) 3	460)	3	DIST CON	ributi Trol f	ON PUMPS, UV LIGHT, FINAL FILTER, RESISTIVITY MONITOR PANEL
HPW-4	4 STORA	GE TANK	MECHAN	NICAL ROOM	POLYPROCES 4000510	SING	500 GAL	-	-	-		-	POL) WITH	ΈΤΗΥΙ I 2 FT.	LENE, VERTICAL, CONE BOTTOM, DOMED TOP STAND
															DRAIN
			I	IAG M	ASIS OF I	SESIGN	DEL	JESCRIPTIO	N						
			F	⁻ D-1	JAY R S	MITH	L	IGHT DUTY F	LOOR DRA	IN					
					2005Y-06I	3-P050									
			F	-D-2	JAY R S	MITH	N	MEDIUM DUTY	FLOOR D	RAIN					
					2110-P	050				D A III I	0 A T :-	011-1		AN:07	
			F	-D-3	JAY R S	VILLH				KAIN, (JUY, FL	ANGE,	8" KOUND TOP, 3" SUMP, LESS ACID-RESISTANT ENAMEL
				-D-4	3020-C	н- то 	 r								
			Г		3200-	10			ME BOTTO			R	, 10 30		
			F	-D-5	JAY R S	MITH	(CAST IRON BC	DY 7" ROI		B STR4		EXTEN	IDED R	RIM, CHROME PLATED
				-	2005Y-F	37CP		DRAIN BODY V	VITH ADJU	STABL	LE 7" R		STRAI	NER TO	OP AND ANTI-SPLASH RIM (-F37), TRAP PRIMER CONNECTIO
			F	RD-1	JAY R S	MITH	F	ROOF DRAIN							
					1015Y-C	-CID									
				HD-1	N/A		ŀ	HUB DRAIN, EX	XTEND PIP	E ABC	OVE FIN	NISHEI	D FLOO	R AS IN	NDICATED ON DETAIL OR AS NOTED ON FLOOR
							F	PLAN DRAWIN	G						

	MANUFACTU	RER AN	ID MODEL	(CFM)	PRESS (PSI	SURE H	HP \\	VOLT	PH	VFD	
AL ROOM	PO O	WEREX		70.8	145	5 10	0 (2)	460	3	NO	OIL LESS RECIPROCATING PISTON COMPRESSOR, DUPLEX, 240 GAL TANK MOUNTED
											AIR DRYERS
								РС .			
	FM) PRESSURE	PRESS		PI. INLE			VOLT		РН	HP	
R) (ST	TD) (PSIG)	(PSI	IG) (*F	·) (IN)) ((IN)					
/5	5 100	15	0 40) 3/4		3/4	115		1	1	REFRIGERATED, NON-CYCLING
75	75 100	15	0 40) 3/4		3/4	115		1	1	REFRIGERATED, NON-CYCLING
LOCATION	N BASIS OF DI (MANUFACT	ESIGN URER)	CAPACITY	PRESSURE BOOST	HP	MOTOF	۲	PH	REMA	ARKS	DEIONIZED WATER EQUIPMENT
	(MODEL NUI	MBER)		(PSI)							
CHANICAL R	ROOM CULLIGA	AN	GPM	-	-	-		-	WATE	ER SOF	TENER, CARBON FILTER
CHANICAL R	ROOM CULLIGA	AN	1.0	-	0.75	115		1	VERT	ICAL, S	INGLE PASS, 50% RECOVERY
	G1		GPM								
CHANICAL R	ROOM CULLIGA	AN	(2) 25	75	(2) 3	460		3	DIST	RIBUTIC	ON PUMPS, UV LIGHT, FINAL FILTER, RESISTIVITY MONITOR,
			GPM				_				
	400051	0	GAL	-	-	-		-	WITH	2 FT. S	STAND
TAG	BASIS OF			DESCRIPTIO	N						DRAINS
 FD_1		SMITH				AIN					
	2005Y-06	6B-P050									
FD-2	JAY R	SMITH	Ν	IEDIUM DUTY	FLOOR D	DRAIN					
	2110-	P050									
FD-3	JAY R S	SMITH	Ν	IEDIUM DUTY	FLOOR D	DRAIN, CA	AT IRC	ON BO	DY, FL	ANGE, 8	3" ROUND TOP, 3" SUMP, LESS ACID-RESISTANT ENAMEL
	3020-	CI-10		NTERIOR, LES	SS RIM AN	ID GRATI	E, ALU	JMINUI		E SECO	ONDARY STRAINER
	JAY R	SMITH	C	EEP RECEPT	OR DRAIN	N, CAST I	IRON E	BODY,	16" SC	UARE	TOP, FLANGE,
FD-4	3200	0-10	A		ME BOTT	OM STR	AINER	ł			
FD-4	0200		1				STRAI	INER,	FXTEN		
FD-4 FD-5	JAY R	SMITH	C	AST IRON BC	DY 7" RO				_/	DED RI	
FD-4 FD-5	JAY R 3 2005Y-	SMITH F37CP	С С	CAST IRON BO	DY 7" RO VITH ADJI	USTABLE	E 7" RC	DUND	STRAIN	NER TO	P AND ANTI-SPLASH RIM (-F37), TRAP PRIMER CONNECTION
FD-4 FD-5 RD-1	JAY R 3 2005Y-1 JAY R 3	SMITH F37CP SMITH	C E F	CAST IRON BO DRAIN BODY V ROOF DRAIN	DY 7" RO VITH ADJI	USTABLE	E 7" RC	DUND	STRAI		P AND ANTI-SPLASH RIM (-F37), TRAP PRIMER CONNECTION
FD-4 FD-5 RD-1	JAY R 3 2005Y- JAY R 3 1015Y-	SMITH F37CP SMITH -C-CID	C C F	CAST IRON BO DRAIN BODY V ROOF DRAIN	DDY 7" RO VITH ADJI	USTABLE	E 7" RC	DUND	STRAI	IER TO	P AND ANTI-SPLASH RIM (-F37), TRAP PRIMER CONNECTION
FD-4 FD-5 RD-1 HD-1	JAY R 3 2005Y-1 JAY R 3 1015Y- N/	SMITH F37CP SMITH -C-CID	C C F	CAST IRON BC DRAIN BODY V ROOF DRAIN	VITH ADJU	USTABLE PE ABOV	2 7" RC	OUND	STRAIN	NER TO	P AND ANTI-SPLASH RIM (-F37), TRAP PRIMER CONNECTION

NOTE: FLOOR DRAINS WITH A (TP) SUFFIX SHALL BE CONNECTED TO A TRAP PRIMER SUPPLY.

TAG	LOCATION	SERVICE	BASIS OF DESIGN
			MANUFACTURER AND MODEL
BV-1	CORRIDOR	DHW	CIRCUIT SOLVER
	200C		CSUA-PP
BV-2	W RR	DHW	CIRCUIT SOLVER
	212		CSUA-PP
BV-3	M RR	DHW	CIRCUIT SOLVER
	235		CSUA-PP
BV-4	SERVICE CORRIDOR	DHW	CIRCUIT SOLVER
	101A		CSUA-PP
BV-5	W RR	DHW	CIRCUIT SOLVER
	108		CSUA-PP
BV-6	M RR	DHW	CIRCUIT SOLVER
	130		CSUA-PP
BV-7	CORRIDOR	DHW	CIRCUIT SOLVER
	100B		CSUA-PP

-		FIXTURE				
TAG			LAB	LAB	HIGH	DEMARKS
	TYPE	MANUFACTURER AND	COMPRESSED	COMPRESSED	PURITY	REMARKS
		MODEL NUMBER	AIR	AIR (100 PSIG)	WATER	
LF1-LA	LABORATORY	REFER TO ARCHITECTURAL	1/2"	-	-	QUICK CONNECT FITTING WITH SHUT OFF
	OUTLET	LF DRAWINGS				
LF1-LA-100	LABORATORY	REFER TO ARCHITECTURAL	-	1/2"	-	QUICK CONNECT FITTING WITH SHUT OFF
	OUTLET	LF DRAWINGS				
OCP-LA	LABORATORY	REFER TO ARCHITECTURAL	1/2"	-	-	OVERHEAD CEILING PANEL
	OUTLET	LF DRAWINGS				
LF2-HPW	LABORATORY	REFER TO SPECIFICATION	-	-	1/2"	ZERO STATIC TEE DIAPHRAGM TO SINK FAUCET
	OUTLET	22 6714.13				
LF3-HPW	LABORATORY	REFER TO SPECIFICATION	-	-	1/2"	ZERO STATIC TEE DIAPHRAGM TO BALL VALVE WITH
	OUTLET	22 6714.13				NPT THREAD FOR CONNECTION TO POLISHING UNIT

•	TAG	SERVICE	LOCATION	BASIS OF DESIGN MANUFACTURER AND MODEL	CAPACITY (GPM)	HEAD (FEET)	DISCHARGE SIZE (IN)	MC HF
	SP-1	FM	ELEVATOR	ZOELLER	50	30	1-1/2"	1/2
			1	161 SERIES				

TAG	SERVICE	LOCATION	BASIS OF DESIGN	CAPACITY	HEAD	SIZE (II	VCHES)	MOTOR				REMARKS
			MANUFACTURER AND MODEL	(GPM)	(FT)	SUCT.	DISCH.	HP	VOLT	PH	VFD	
RP-1	DHR	MECHANICAL ROOM	BELL & GOSSET	4.3	25	1"	1"	1/12	115	1	Ν	DOMESTIC HOT WATER CIRCULATION PUMP
			PL-30									CONTROLLED VIA AQUASTAT

LABORATORY AIR COMPRESSORS

		BAL	ANCING VALVES
	SIZE	DESIGN	DESIGN FLOW RATE
ODEL	(INCHES)	Cv	(GPM)
	3/4	0.85	1
	1/2	0.6	0.6
	1/2	0.6	0.5
	1/2	0.6	0.5

1/2 0.6

1/2 0.6

3/4 0.85

LABORATO	DRY O	UTLETS

0.5

0.5

0.7

SUMP PUMPS



PUMPS

	FIXTURE			TRIM
TAG	TYPE	MANUFACTURER AND MODEL NUMBER	TYPE	MANUFACTURER AND MODEL NUMBER
WC-1		KOHLER		
	WALL MOONTED	KINGSTON K-4325	FLUSH VALVE	SLOAN ECOS
				BEMIS
			ACCESSORIES	1995-SS/C
WC-2		KOHLER		
	BARRIER FREE	KINGSTON K-4325		
UR-1	URINAL WALL HUNG	KOHLER BARDON		
		6002.001	FLUSH VALVE	SLOAN ROYAL
			CARRIER	ZURN
UR-2	URINAL	KOHLER		21221
	WALL HUNG BARRIER-FREE	BARDON 6002.001		
L-1		KOHLER		
	BARRIER-FREE	SOHO K-2054	FAUCET	SLOAN OPTIMA
			THERMOSTATIC	EAF-250-BAT-ISM-CP-0.5GPM-AER-IR-IQ-FC SYMMONS
			MIXING VALVE	MAXLINE 7-210-CK-NI
			DRAIN & TRAP	MCGUIRE PROWRAP PW2125HDWC
			STOPS &	MCGUIRE
1-2		KOHI FR	SUPPLIES	LF2165CCLK
L 2		MEMOIRS		
	BARRIER-FREE	K-2339-0	FAUCET	EAF-250-BAT-ISM-CP-0.5GPM-AER-IR-IQ-FC
			THERMOSTATIC MIXING VALVE	SYMMONS MAXLINE 7-210-CK-NI
			DRAIN & TRAP	MCGUIRE PROWRAP
				PW2125HDWC
			STOPS & SUPPLIES	LF2165CCLK
EWC-1	ELECTRIC WATER	ELKAY LZSTLG8WSSK		
	BARRIER-FREE			
	WITH BOTTLE FILLER			
			TRAP	
			STOPS &	MCGUIRE
S-1	SINK	ELKAY	SUFFLIES	LFSTIZLK
	DOUBLE BOWL UNDERMOUNT ADA	ECTSRAD33226TBG		ELKAY ALLURE
			FAUCET	LK7921SSS FLKAY
			DRAIN	LK-99
			TRAP	MCGUIRE 8912CNC
			STOPS & SUPPLIES	MCGUIRE LF2167CCLK
SK-1		REFER TO ARCHITECTURAL	EALICET	WATEDSAVED
	EPOXT UNDERWOONT	LF DRAWINGS	FAUCET	L2222VB
			DRAIN	ELKAY LK-99
			TRAP	MCGUIRE 8912CNC
			STOPS &	MCGUIRE
SK-3	SKULLERY SINK	REFER TO ARCHITECTURAL	SUPPLIES	LF216/CCLK
		LF DRAWINGS	FAUCET	WATERSAVER L512WS
			PRE-RINSE	WATERSAVER
			DRAIN	ELKAY
			ТРАР	LK-18
			STOPS &	
	011014/55		SUPPLIES	
5H-1	SHOWER	FIAT MODEL ADATN-6030		POWERS
				E420S-1-2-K-0-7-B-W
	COMPINATION		N/A	N/A
	EMERGENCY	LF DRAWINGS	N/A	N/A
	SHOWER AND EYEWASH			
			N/A	N/A
111-1		LF DRAWINGS		
	REERIGERATOR	REFER TO ARCHITECTURAL		
	FURNISHED BY OTHERS	DRAWINGS		
			WALL BOX WITH SUPPLY	MIBHAAB
COF-1	COFFEE MAKER FURNISHED BY OTHERS	REFER TO ARCHITECTURAL DRAWINGS	SUPPLY	
			PACKELOW	WATTO
			PREVENTER	SD3
IMK-1	ICE MAKER	REFER TO ARCHITECTURAL DRAWINGS	WALL BOX WITH SUPPLY	GUY GRAY
		СІЛТ	AND DRAIN	RMDW1AB
JO-1		TSB3000		
			FAUCET	CHICAGO FAUCET 782-VBXKCCP
			HOSE AND	FIAT
				832-AA FIAT
HB-1	HOSE BIBB	WOODFORD	N/A	MSG3624 N/A
		B65		N1/A
нв-2		875	N/A	N/A
HB-3	HOSE BIBB	WOODFORD 24	N/A	N/A
ETP-1		PRECISION PLUMBING	N/A	N/A
	PRIMER	PRODUCTS PTS SERIES		

NOTE: PROVIDE WATER HAMMER ARRESTORS FOR ALL QUICK CLOSING VALVES, INCLUDING BUT NOT LIMITED TO LAVATORIES WITH SOLENOID VALVES, WATERCOOLERS, WATER DISPENSERS, ELECTRONIC TRAP PRIMERS.

														NA	TURAL GAS STORAGE WATER HEATERS
TAG	SERVICE	LOCATION	BASIS OF DESIGN	WATER SIDE				STORAGE	E TANK				NATURAL GA	\S	REMARKS
			MANUFACTURER AND MODEL	RECOVERY	MAX.	EWT	LWT	VOLUME	MAX.	MAX.	ORIENTATION	ASME	PRESSURE	DEMAND	
					FLOW				DIA.	LENGTH		RATED			
				(GPH)	(GPM)	(°F)	(°F)	(GAL)	(IN)	(IN)			(IN WC)	(BTUH)	
WH-1	DHW	MECHANCIAL ROOM	A.O. SMITH	197		70	120	60	28	56	VERTICAL	YES	14	120,000	CONDENSING TYPE, NATURAL GAS,
			BTH-120												95% EFFICIENT, CONDENSATE NEUTRALIZATION KIT
WH-2	DHW	MECHANCIAL ROOM	A.O. SMITH	197		70	120	60	28	56	VERTICAL	YES	14	120,000	CONDENSING TYPE, NATURAL GAS,
			BTH-120												95% EFFICIENT, CONDENSATE NEUTRALIZATION KIT



PLUMBING FIXTURES

CONNECTION

SUPPLY INLET SUPPLY INLET

 WASTE
 VENT
 TRAP
 COLD WATER
 HOT WATER

 BRANCH
 STOP
 BRANCH
 STOP

4" 2" INTEGRAL 1-1/2" 1"

BATTERY, TRUE MECHANICAL OVERRIDE, 1-1/2" TOP SPUD CONNECTION, POLISHED CHROME. STAINLESS STEEL SELF-SUSTAINING HINGE, WHITE. GASKETS, BOLTS WITH CHROMIUM PLATED CAPS, NUTS AND WASHERS. FIXTURE EQUAL TO WC-1, BARRIER FREE MOUNTING HEIGHT. FLUSH VALVE, CARRIER, SEAT AND 4" 2" INTEGRAL 1-1/2" 1" ACCESSORIES EQUAL TO WC-1 WHITE VITREOUS CHINA, WALL MOUNTED, WASH DOWN TYPE, RIM EXTEND TO 14" FROM 2" 1-1/2" INTEGRAL 3/4" 3/4" WALL, 0.125 GALLONS PER FLUSH, 3/4" TOP SPUD INLET. 0.128 GALLONS PER FLUSH, EXPOSED SENSOR OPERATED DIAPHRAGM FLUSHOMETER, BATTERY OPERATED, TRUE MECHANICAL OVERRIDE, 1-1/2" TOP SPUD CONNECTION, POLISHED CHROME. ADJUSTABLE UNIVERSAL CARRIER WITH HANGER PLATE, PIPE UPRIGHTS. FIXTURE EQUAL TO UR-1. BARRIER FREE MOUNTING HEIGHT. 2" 1-1/2" INTEGRAL 3/4" 3/4" -FLUSH VALVE AND CARRIER EQUAL TO UR-1 20" X 18" WHITE VITREOUS CHINA, WALL HUNG, SINGLE FAUCET HOLE, 1-1/2" 1-1/2" 1/2" 3/8" 1/2" 3/8" DRILLED FOR CARRIER SUPPORT. SENSOR ACTIVATED, SINGLE HOLE, 0.5 GPM AERATED SPRAY, BATTERY POWERED SINGLE SUPPLY, POLISHED CHROME. POINT OF USE. 3/8" COMPRESSION INLETS AND OUTLETS. INTEGRAL CHECKS/STRAINERS, 0.5 GPM MINIMUM FLOW, LEAD FREE, ASSE 1070, NICKEL FINISH. 17-GAUGE TUBULAR BRASS, FIXED GRATE, 1-1/4" OVERFLOW INLET, 1-1/2" OUTLET, 6" HORIZONTAL OFFSET, CAST BRASS P-TRAP WITH CLEANOUT, HEAVY-DUTY CHROME FINISH, PRE-WRAPPED, INSULATION KIT FOR SUPPLY STOPS. ANGLE PATTERN, LOCK SHEILD CAP, LOOSE KEY HANDLE, 1/2" NPT INLET X 3/8" COMPRESSION OUTLET, POLISHED CHROME. 21" X 18" REFINED RECTANGULAR BASIN, WHITE VITREOUS CHINA, UNDERMOUNT. 1-1/2" 1-1/2" 1/2" 3/8" 1/2" 3/8" SENSOR ACTIVATED, SINGLE HOLE, 0.5 GPM AERATED SPRAY, BATTERY POWERED SINGLE SUPPLY, POLISHED CHROME. POINT OF USE, 3/8" COMPRESSION INLETS AND OUTLETS, INTEGRAL CHECKS/STRAINERS, 0.5 GPM MINIMUM FLOW, LEAD FREE, ASSE 1070, NICKEL FINISH. 17-GAUGE TUBULAR BRASS, FIXED GRATE, 1-1/4" OVERFLOW INLET, 1-1/2" OUTLET, 6" HORIZONTAL OFFSET, CAST BRASS P-TRAP WITH CLEANOUT, HEAVY-DUTY CHROME FINISH, PRE-WRAPPED, INSULATION KIT FOR SUPPLY STOPS. ANGLE PATTERN, LOCK SHEILD CAP, LOOSE KEY HANDLE, 1/2" NPT INLET X 3/8" COMPRESSION OUTLET, POLISHED CHROME. DUAL LEVEL, BOTTLE FILLER, SELF-CONTAINED, SURFACE WALL MOUNTED, BASIN OVER CABINET, HFC-134A REFRIGERANT, 8 GPH MINIMUM CAPACITY, ANTI-SPLASH STAINLESS STEEL BASIN, STAINLESS STEEL CABINET, SENSOR ACTIVATED BOTTLE 1-1/2" 1-1/2" 1-1/4" 1/2" 3/8" --FILLER, PUSH-BAR ACTIVATED FOUNTAINS, AUTOMATIC STREAM REGULATOR, POLISHED CHROME TRIM. CANE APRON FOR FIXTURES IN CIRCULATION PATHS. 1-1/4" X 1-1/2" P-TRAP WITH CLEANOUT PLUG, ADJUSTABLE WITH CONNECTED ELBOW AND NIPPLE TO WALL, PVC. STRAIGHT PATTERN, LOCK SHIELD CAP, LOOSE KEY HANDLE, 1/2" NPT INLET AND OUTLET. POLISHED CHROME. TYPE 304 STAINLESS STEEL, 18 GAUGE, UNDERMOUNT, DOUBLE COMPARTMENT, SATIN FINISH, 1-1/2" 1-1/2" 1/2" 1/2" 1/2" 1/2" SINK SIZE 33"X22"X6", BOWL(2) 14-3/4"x16-3/4"x6", 3-1/2" REAR CENTER DRAIN. SATIN STAINLESS STEEL, 8" SPOUT, LEVER HANDLE, 1.5 GPM FLOW OUTLET, SINGLE FAUCET HOLE, CERAMIC DISC VALVE. STAINLESS STEEL BODY, 1-1/2" CHROME PLATED BRASS TAILPIECE, STAINLESS BASKET STRAINER, 3-1/2" OPENING. 1-1/2" X 1-1/2" P-TRAP WITH CLEANOUT PLUG, ADJUSTABLE WITH CONNECTED ELBOW AND NIPPLE TO WALL, POLISHED CHROME. ANGLE PATTERN, LOCK SHIELD CAP, LOOSE KEY HANDLE, 1/2" NPT INLET X 1/2" NPT OUTLET, POLISHED CHROME. JWL INTEGRAL TO CASEWORK - 1-1/2" | 1-1/2" | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" LABORATORY MIXING FAUCET. DECK MOUNTED, 6" SWING VACUUM BREAKER GOOSENECK, AERATOR, WRIST BLADE HANDLES. STAINLESS STEEL BODY, 1-1/2" CHROME PLATED BRASS TAILPIECE, STAINLESS BASKET STRAINER, 3-1/2" OPENING. 1-1/2" X 1-1/2" P-TRAP WITH CLEANOUT PLUG, ADJUSTABLE WITH CONNECTED ELBOW AND NIPPLE TO WALL, POLISHED CHROME. ANGLE PATTERN, LOCK SHIELD CAP, LOOSE KEY HANDLE, 1/2" NPT INLET X 1/2" NPT OUTLET, POLISHED CHROME. STAINLESS STEEL DOUBLE COMPARTMENT WITH INTEGRAL DRAIN BOARD 2" | 1-1/2" | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" PANEL MOUNTED MIXING FAUCET, 6" SWING GOOSENECK, 4" WRIST BLADES HANDLES PANEL MOUNTED MIXING FAUCET, 4" BRASS FOUR -ARM HANDLE, AND STAINLESS STEEL HOSE SELF-CLOSING SPRAY HANDLE STAINLESS STEEL BODY, 1-1/2" CHROME PLATED BRASS TAILPIECE, STAINLESS BASKET STRAINER, 3-1/2" OPENING. 65" X 32" TERRAZZO WHEELCHAIR SHOWER RECEPTOR, STAINLESS STEEL INTEGRAL DRAIN CONCEALED THERMOSTATIC CONTROL VALVE WITH STOPS, ASSE 1016, COMPLETE WITH VINYL HOSE, HANDHELD SHOWER HEAD WITH WALL ROD MOUNT, 1.5 GPM FLOW CONTROL, VACUUM BREAKER, 2" 1-1/2" 2" 1/2" 1/2" 1/2" 1/2" WALL MOUNTED SHOWER HEAD, CONCEALED METAL HANDLE DIVERTER. RECESSED BARRIER-FREE EYE/FACE WASH AND SHOWER SAFETY STATION STAINLESS SHOWER HEAD, STAY-OPEN BRASS BALL VALVE FOR SHOWER AND EYEWASH, STAINLESS STEEL EYEWASH COVER AND DRAIN PAN 1-1/2" 1" -ANTI-SURGE SPRAY HEADS AND AUTOMATIC PRESSURE COMPENSATION DEVICES, ADJUSTABLE FLOW CONTROL CUP SINK AND FITTINGS SUPPLY AS PART OF THE FUMEHOOD 1/2" 1/2" -EQUIPMENT CONNECTION. 1/2" 3/8" ---METAL POWDER COATED WALL BOX, ANGLE PATTERN SUPPLY VALVE, 1/2" SWEAT INLET, 1/4 TURN, LEAD FREE, WITH HAMMER ARRESTOR. EQUIPMENT CONNECTION. 3/8" 1/2" ANGLE PATTERN SUPPLY VALVE, 1/2" SWEAT INLET, 1/4 TURN, LEAD FREE, WITH HAMMER ARRESTOR. 316 SS CONSTRUCTION, NPT CONNECTION, 200 PSIG, 110F, ASSE 1024, WITH STRAINER. EQUIPMENT CONNECTION. 1/2" 3/8" 2" | 1-1/2" | 2" ICE MAKER OUTLET BOX WITH DRAIN AND HAMMER ARRESTOR 2" SLIPNUT DRAIN, 1/2" INLET, 3/8" COMPRESISON OUTLET FLOOR MOUNTED, STAIN RESISTANT, WHITE PRE-CAST TERRAZZO WITH STAINLESS 3" 1-1/2" 3" 3/4" 1/2" 3/4" 1/2" STEEL SPLASH PANELS AND STAINLESS STEEL CAP, 32' X 32' X 12" DEEP, INTEGRAL STAINLESS STEEL GRID STRAINER. COMBINATION FAUCET MOUNTED 36" ABOVE FINISHED FLOOR, PAIL HOOK, 3/4" HOSE CONNECTION, TOP OR BOTTOM WALL BRACE, CONCEALED INTEGRAL STOPS, 8" CENTERS. VACUUM BREAKER SPOUT, POLISHED CHROME, CERAMIC CARTRIDGES. 30" LONG, 5/8" RUBBER HOSE AND STAINLESS STEEL HOSE BRACKET. MOUNT BRACKET MINIMUM 18" ABOVE FINISHED FLOOR AND 6" LEFT OF FAUCET CENTER. TYPE 304 STAINLESS STEEL, 20 GAUGE, 12" HEIGHT. ANTI-SIPHON, WALL MOUNTED, CONCEALED BOX TYPE, 3/4" THREADED CONNECTION, 3/4" 3/4' ASSE 1011 COMPLIANT. CHROME FINISH. FREEZELESS. ANTI-SIPHON, WALL MOUNTED, CONCEALED BOX TYPE, 3/4" THREADED CONNECTION, 3/4" 3/4' ASSE 1011 COMPLIANT, CHROME FINISH. ANTI-SIPHON, WALL MOUNTED, 3/4" THREADED CONNECTION, ASSE 1011 COMPLIANT, 3/4 3/4 CHROME FINISH, WALL MOUNTED CABINET WITH SEPARATE PRIMER MANIFOLD CONNECTIONS TO

DESCRIPTION

WHITE VITREOUS CHINA, WALL HUNG SIPHON JET, ELONGATED BOWL, 1.28 GALLONS

1.28 GALLONS PER FLUSH, EXPOSED SENSOR OPERATED DIAPHRAGM FLUSHOMETER,

PER FLUSH, 1-1/2" TOP SPUD INLET.

MEET DRAIN QUANTITIES. CABINET CONTAINS VACUUM BREAKER, 24 HOUR ADJUSTABLE TIMER WITH MANUAL OVER RIDE SWITCH, 3/4" INLET CONNECTION WITH MULTIPLE 1/2" OUTLETS. WATER HAMMER ARRESTOR ON SUPPLY.

EXPANSION TANKS LOCATION SERVICE BASIS OF DESIGN | STORAGE | ASME | AIR CHARGE | REMARKS (MANUFACTURER) (GAL) RATED PRESSURE (MODEL NUMBER) (Y/N) (PSIG) ET-1 MECHANICAL ROOM DHW140 POLYPROPYLENE LINER, FIXED DIAPHRAGM AMTROL 6.4 50 ST-12-C

3/4" 3/4"

-

Affiliated Engineers	ø
n Center 1st Road Ste 205 Florida 32669 6.5500 Fax 352.375.3479	

Andrew David Peter FL P.E No. 88584





Plumbing Schedules

WATER SOURCES

4.

Α.

В.

C.

D. DESIGN APPROACH, WHICH INCLUDES SYSTEM TYPE, DENSITIES, DEVICE TEMPERATURE RATING, AND SPACING FOR EACH

TO BE DETERMINED.

SERVICE.

G.

NO INDICATION OF MIC IN WATER.

NOT APPLICABLE.

NOT APPLICABLE.

61G15-32.004 DESIGN OF WATER BASED FIRE PROTECTION SYSTEMS

WATER BASED FIRE PROTECTION SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO, AUTOMATIC SPRINKLER SYSTEMS OF WET, DRY, FINE WATER SPRAY (MIST), MANUAL, AND DELUGE VALVE CONTROLLED TYPES, PUMPING SYSTEMS, STANDPIPES, FIRE WATER MAINS AND DEDICATED FIRE PROTECTION

TO ENSURE MINIMUM DESIGN QUALITY IN FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS, SAID DOCUMENTS SHALL INCLUDE AS A MINIMUM THE FOLLOWING INFORMATION WHEN APPLICABLE: THE POINT OF SERVICE FOR THE FIRE PROTECTION WATER SUPPLY AS DEFINED BY SECTION 633.102(24), F.S. SHUT OFF VALVE AND BACKFLOW PREVENTER LOCATED ON SITE.

APPLICABLE NFPA STANDARD TO BE APPLIED, OR IN THE CASE WHERE NO SUCH STANDARD EXISTS, THE ENGINEERING STUDY, JUDGMENTS, AND/OR PERFORMANCE BASED ANALYSIS AND CONCLUSIONS. NFPA 1 (2018 EDITION, AS ADOPTED BY THE STATE OF FLORIDA FIRE PREVENTION CODE, SEVENTH EDITION), NFPA 13 (2016 EDITION), NFPA 45 (2015 EDITION), NFPA 55 (2016 EDITION), NFPA 101 (2018 EDITION, AS ADOPTED BY THE STATE OF FLORIDA FIRE PREVENTION CODE, SEVENTH EDITION).

CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA. OFFICES, RESTROOMS, BREAKROOM AND COMMON AREAS ARE LIGHT HAZARD. MECHANICAL AND LAB SPACES WILL BE ORDINARY HAZARD GROUP 1 AND ORDINARY HAZARD GROUP 2.

SEPARATE HAZARD OCCUPANCY. INTERIOR LIGHT HAZARD AREAS WILL BE WET PIPE, 0.1 GPM/SQFT, ORDINARY TEMPERATURE, 225 SQFT PER HEAD. MECHANICAL AND LABORATORY SPACES WILL BE WET PIPE, 0.15 GPM/SQFT OR 0.2 GPM/SQFT, ORDINARY TEMPERATURE, 130 SQFT PER HEAD. AUTOCLAVE ROOM WILL HAVE HIGH TEMPERATURE HEADS.

CHARACTERISTICS OF WATER SUPPLY TO BE USED, SUCH AS MAIN SIZE AND LOCATION, WHETHER IT IS DEAD-END OR CIRCULATING; AND IF DEAD-END, THE DISTANCE TO THE NEAREST CIRCULATING MAIN, AS WELL AS ITS MINIMUM DURATION AND RELIABILITY FOR THE MOST HYDRAULICALLY DEMANDING DESIGN AREA.

WHEN PRIVATE OR PUBLIC WATER SUPPLIES ARE USED, THE FLOW TEST DATA, INCLUDING DATE AND TIME OF TEST, WHO CONDUCTED TEST OR SUPPLIED INFORMATION, TEST ELEVATION, STATIC GAUGE PRESSURE AT NO FLOW, FLOW RATE WITH RESIDUAL GAUGE PRESSURE, HYDRANT BUTT COEFFICIENT, AND LOCATION OF TEST IN RELATION TO THE HYDRAULIC POINT OF CONTRACTOR SHALL CONDUCT A FIRE FLOW TEST TO INCLUDE IN THEIR HYDRAULIC CALCULATIONS AND DRAWINGS. VALVING AND ALARM REQUIREMENTS TO MINIMIZE POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER.

BUTTERFLY VALVES ON BACKFLOW PREVENTER, MAIN DRAIN AND BUILDING ZONE CONTROL HAVE TAMPER SWITCHES. A FLOW SWITCH IS INSTALLED DOWNSTREAM OF THE MAIN CONTROL VALVE.

H. MICROBIAL INDUCED CORROSION (MIC). THE ENGINEER OF RECORD SHALL MAKE REASONABLE EFFORTS TO IDENTIFY WATER SUPPLIES THAT COULD LEAD TO MICROBIAL INDUCED CORROSION (MIC). SUCH EFFORTS MAY CONSIST OF DISCUSSIONS WITH THE LOCAL WATER PURVEYOR AND/OR FIRE OFFICIAL, FAMILIARITY WITH CONDITIONS IN THE LOCAL AREA, OR LABORATORY TESTING OF WATER SUPPLIES. WHEN CONDITIONS ARE FOUND THAT MAY RESULT IN MIC CONTAMINATION OF THE FIRE PROTECTION PIPING, THE ENGINEER SHALL DESIGN CORRECTIVE MEASURES.

BACKFLOW PREVENTION AND METERING SPECIFICATIONS AND DETAILS TO MEET LOCAL WATER PURVEYOR REQUIREMENTS INCLUDING MAXIMUM ALLOWABLE PRESSURE DROP. CIVIL CONTRACTOR SHALL PROVIDE AN ASSE 1015, AWWA C510 DOUBLE CHECK DETECTOR BACKFLOW ASSEMBLY WITH A MAXIMUM ALLOWABLE PRESSURE DROP OF 5 PSI AT THE HYDRAULICALLY CALCULATED DEMAND FLOW. QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS.

ALL COMPONENTS ARE SPECIFIED IN 21 1314 AUTOMATIC FIRE SPRINKLER SYSTEMS. ALL PRODUCTS ARE VERIFIED AND APPROVED BY ENGINEER OF RECORD.

FOR HIGH HAZARD OCCUPANCY CLASSIFICATIONS, STORAGE OCCUPANCIES, AND FACTORY OCCUPANCIES, AS DEFINED IN SECTIONS 307, 311, AND 306, RESPECTIVELY, OF THE FLORIDA BUILDING CODE, BUILDING, AND HIGH-RISE BUILDINGS, AS DEFINED IN SECTION 202 OF THE FLORIDA BUILDING CODE, BUILDING, A DETERMINATION OF WHETHER A FIRE PUMP IS REQUIRED AND IF SO, THE SPECIFIC VOLUMETRIC FLOW AND PRESSURE RATING OF THE PUMP. THE FLORIDA BUILDING CODE IS INCORPORATED BY REFERENCE IN SUBSECTION 61G15-18.011(6), F.A.C.

A VERIFICATION OF WHETHER A FIREWATER STORAGE TANK IS REQUIRED ON SITE AND IF SO, A DETERMINATION OF THE SIZE AND CAPACITY REQUIRED. SPRINKLER SYSTEM IS FED FROM A MUNICIPAL WATER SYSTEM. STORAGE TANK IS NOT REQUIRED.

OWNER'S CERTIFICATE. IN STORAGE OCCUPANCIES, THE OWNER'S INFORMATION CERTIFICATE IS REQUIRED FROM THE PROPERTY OWNER AS IT CLEARLY DEFINES THE STORAGE CONFIGURATION OF THE SPACE FOR THE CURRENT AND FUTURE USE OF THE PROPERTY, AS REQUIRED BY THE CODES AND STANDARDS SET FORTH IN SUBSECTION 61G15-32.002(7), F.A.C.

RULEMAKING AUTHORITY 471.008, 471.033(2) FS. LAW IMPLEMENTED 471.033(2) FS. HISTORY-NEW 5-19-93, FORMERLY 21H-32.004, AMENDED 4-2-00, 6-26-01, 6-15-15, 8-24-16, 7-25-19.



D	DRAIN LINE
DSPR	DRY SPRINKLER PIPE
——F——	FIRE SUPPLY
SPR	SPRINKLER PIPE
W	WATER SERVICE
	ELBOW DOWN
———————————————————————————————————————	ELBOW UP
	TEE DOWN
O	TEE UP
]	PIPE CAP OR FLUSHING CONNECTION
\longrightarrow	CONCENTRIC REDUCER
<u> </u>	ECCENTRIC REDUCER
Φ	SHUTOFF VALVE (SUPERVISED)
	SUPERVISED OS&Y VALVE
≫	VALVE IN VERTICAL
	CHECK VALVE
$- \bigcirc -$	ALARM CHECK VALVE
İ	FLOW SWITCH
Q	PRESSURE GAUGE (WITH GAUGE VALVE)



FIRE PROTECTION SYMBOLS AND ABBREVIATIONS

FIRE PROTECTION SYMBOLS

Б



CONNECTION FLUSH MOUNTED CONNECTION - FIRE DEPARTMENT VALVE ROOFTOP TEST HEADER BUTTERFLY VALVE SPRINKLER ZONE BOUNDARY BOUNDARY

WALL MOUNTED

AC ACC ACV ADJ AFF ALT AHJ AP APPROX	 AIR COMPRESSOR ACCESS ALARM CHECK VALVE ADJUSTABLE ABOVE FINISHED FLOOR ALTERNATE AUTHORITY HAVING JURISDICTION ACCESS PANEL APPROXIMATE
ASSY ATS	 ARCHITECTURAL ASSEMBLY AUTOMATIC TRANSFER SWITCH
BLDG BOP BOT BTWN	 BUILDING BOTTOM OF PIPE BOTTOM BETWEEN
CFCI CLG CONN CONTR CORR CU	 CONTRACTOR FURNISHED CONTRACTOR INSTALLED CENTERLINE CEILING CONNECTION / CONNECT CONTRACTOR CORRIDOR COPPER
D DCBP DDBP DET DIA DIM DN	 DRAIN LINE DOUBLE CHECK BACKFLOW PREVENTER DOUBLE DETECTOR BACKFLOW PREVENTER DETAIL DIAMETER DIMENSION DOWN
DSPR DWG EA ELEV	 DRY SPRINKLER PIPE DRAWING EACH ELEVATION
EQUIP ETR EXT	- EQUIPMENT - EXISTING TO REMAIN - EXTERIOR
F FACP FDC FDV FHC FHR FLR FMG FPC FPTH FS FT FTG FVC	 FIRE SUPPLY FIRE ALARM CONTROL PANEL FIRE DEPARTMENT CONNECTION FIRE DEPARTMENT VALVE FIRE HOSE CABINET FIRE HOSE RACK FLOOR FACTORY MUTUAL GLOBAL FIRE PUMP CONTROLLER FIRE PUMP TEST HEADER FLOW SWITCH FEET FOOTING FIRE VALVE CABINET
GA GAL GALV GPM	- GAUGE - GALLON - GALVANIZED - GALLONS PER MINUTE
HD	- HUB DRAIN
IBC ID IE IFC IN	 INTERNATIONAL BUILDING CODE INSIDE DIAMETER INVERT ELEVATION INTERNATIONAL FIRE CODE INCHES
JP JPC	- JOCKEY PUMP - JOCKEY PUMP CONTROLLER

- LENGTH

- POUNDS

LBS

MISC - MISCELLANEOUS MTD - MOUNTED MTG - MOUNTING - NORMALLY CLOSED NC NFPA - NATIONAL FIRE PROTECTION ASSOCIATION NO - NORMALLY OPEN NOM - NOMINAL - NATIONAL PIPE THREAD NPT NTS - NOT TO SCALE OC - ON CENTER OD - OUTSIDE DIAMETER OFCI - OWNER FURNISHED CONTRACTOR INSTALLED OFOI - OWNER FURNISHED OWNER INSTALLED - POST INDICATOR VALVE PIV - PLUMBING PLBG PRESS - PRESSURE - PRESSURE REDUCING VALVE PRV PSF - POUNDS PER SQUARE FOOT - POUNDS PER SQUARE INCH PSI - POUNDS PER SQUARE INCH PSIG GAUGE RAD - RADIUS REC - RECESSED REQD - REQUIRED - ROUGH-IN RI - REVOLUTIONS PER MINUTE RPM - REDUCED PRESSURE ZONE RPBP BACKFLOW PREVENTER RV - RELIEF VALVE SCH - SCHEDULE SHT - SHEET SPEC - SPECIFICATION SPR - SPRINKLER - SQUARE SQ - STAINLESS STEEL S/S STRU - STRUCTURAL / STRUCTURE TEMP - TEMPERATURE - TEST CELL TOB - TOP OF BEAM TOD - TOP OF DECK TOJ - TOP OF JOIST - TOP OF SLAB / TOP OF STEEL TOS TYP - TYPICAL UBC - UNIFORM BUILDING CODE UFC - UNIFORM FIRE CODE UNO - UNLESS NOTED OTHERWISE V - VALVE VEL - VELOCITY VESDA - VERY EARLY SMOKE DETECTION APPARATUS

VOL - VOLUME

W

W/

W/O

- WIDTH

- WITHOUT

- WITH

WATER FLOW TEST INFORMATION LOCATION: W PAUL DIRAC DR AND N PAUL DIRAC DR STATIC PRESSURE: 110 PSI TESTED BY: PHOENIX FIRE PROTECTION, INC **RESIDUAL PRESSURE: 95 PSI** TEST TAKEN TIME: 1:15PM FLOW AT TEST: 1405 GPM DATE OF TEST: 08/27/21 NOTE: CONTRACTORS SHALL COORDINATE LATEST WATER FLOW TEST RESULTS. mmmmmmm



ABBREVIATIONS

- MAXIMUM

- MINIMUM

- MEZZANINE

- MANUFACTURER

MAX

MEZZ

MFR

MIN

Affiliated Engineers	•
n Center 1st Road Ste 205 Florida 32669 6.5500 Fax 352.375.3479	

Andrew David Peter FL P.E No. 88584



Architects Lewis + Whitlock 206 West Virginia St. Tallahassee, Florida 32301 850,942.1718 www.think3d.net





- WITH A HYDRAULICALLY CALCULATED WET SPRINKLER SYSTEM. PROTECT ALL AREAS
- DESIGNED SPRINKLER SYSTEMS WITH MA ENGRAVED, WEATHERPROOF METAL SIGN SHALL BE PLACED AT THE ALARM VALVE ACTION VALVE SUPPLYING THE CORRESP HYDRAULICALLY DESIGNED AREAS. THE REQUIRED INFORMATION SHALL BE IN ACC

Tioga Town Center 12921 SW 1st Road Ste 205 Newberry, Florida 32669 Tel 352.376.5500 Fax 352.375.3479 CA-5140 Engineer of Record Andrew David Peter FL P.E No. 88584		I HESE URAWINGS AND RENDERINGS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS	AND ASSOCIATED COPIES THEREOF , INCLUDING ELECTRONIC MEDIA AND CADD	FILES, ARE THE PROPERTY OF ARCHITECTS:	LEWIS + WHITLOCK, PA.A. THEIR USE,	ANY PURPOSE EXCEPT BY WRITTEN	AGREEMENT WITH THE ARCHITECT IS PROHIBITED THIS COPVRIGHT	NOTIFICATION SHALL BE TRUE AS IF	DIRECTLY PLACED ON EACH DRAWING EXHIBIT OR RENDERING ON THIS	DOCUMENT AND SHALL NOT BE REMOVED FROM THESE DOCUMENTS.	
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AL DRAWINGS FOR ANS. IS FOR SPRINKLER HEAD											
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OF THE LOADING DOCK WITH RY HORIZONTAL SIDEWALL	DRAWN:	RAN	RAN	RAN							
OVE AND BELOW SUSPENDED OVE ACOUSTICAL CEILING WITH NEPA 13 (2016) 8,15,14.											
AL DETAILS #4/A7.3 AND #17/A7.3.	PHASE:	DESIGN DEVELOPMENT	50% CONSTRUCTION DOCUMENTS	100% CONSTRUCTION DOCUMENTS							
	Client:				I allanassee, Florida			Job Title:	North Elorido Innovation I abo		
	Consultant:	Affiliated Engineers Inc	12921 SW 1st Road Ste 20	Newberry, FL 32669	Tel 352.376.5500	CA-5140		21414		100% Construction Documents	
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0 4' 8' SCALE : 1/8" = 1'-0"

GENERAL NOTES

- 1. THE BUILDING SHALL BE PROTECTED THR WITH A HYDRAULICALLY CALCULATED WET SPRINKLER SYSTEM. PROTECT ALL AREAS BUILDING PER NFPA 13 (2016).
- 2. PROVIDE IDENTIFICATION OF HYDRAULIC DESIGNED SPRINKLER SYSTEMS WITH MAG ENGRAVED, WEATHERPROOF METAL SIGN SHALL BE PLACED AT THE ALARM VALVE A ACTION VALVE SUPPLYING THE CORRESP HYDRAULICALLY DESIGNED AREAS. THE N REQUIRED INFORMATION SHALL BE IN ACC WITH NFPA 13 (2016).
- 3. REFER TO ARCHITECTURAL DRAWINGS FO REFLECTED CEILINGS PLANS.
- 4. REFER TO SPECIFICATIONS FOR SPRINKLE TYPES.

	Tioga Town Center 12921 SW 1st Road Ste 205 Newberry, Florida 32669 Tel 352.376.5500 Fax 352.375.3479 CA-5140 Engineer of Record Andrew David Peter FL P.E No. 885	S [®] 84	THESE DRAWINGS AND RENDERINGS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS	AND ASSOCIATED COPIES THEREOF,	FILES, ARE THE PROPERTY OF ARCHITECTS:	LEWIS + WHITLOCK, PA.A. THEIR USE, DEDDESENTATION OB DEDDONICTION FOD	ANY PURPOSE EXCEPT BY WRITTEN	AGREEMENT WITH THE ARCHITECT IS PROHIBITED. THIS COPYRIGHT	NOTIFICATION SHALL BE TRUE AS IF DIRECTLY PLACED ON EACH DRAWING	EXHIBIT OR RENDERING ON THIS DOCUMENT AND SHALL NOT BE REMOVED	FROM THESE DOCUMENTS.
GENERAL NO	DTES	ATE:	/10/22	/09/22							
1. THE BUILDING SHALL WITH A HYDRAULICAI SPRINKLER SYSTEM. BUILDING PER NFPA	BE PROTECTED THROUGHOUT LY CALCULATED WET PIPE PROTECT ALL AREAS OF THE 13 (2016).	'IEWED: D/	01/	02/							
2. PROVIDE IDENTIFICA DESIGNED SPRINKLE ENGRAVED, WEATHE SHALL BE PLACED AT ACTION VALVE SUPP HYDRAULICALLY DES REQUIRED INFORMAT WITH NFPA 13 (2016).	TION OF HYDRAULICALLY R SYSTEMS WITH MACHINE RPROOF METAL SIGNS. SIGNS THE ALARM VALVE AND PRE- LYING THE CORRESPONDING IGNED AREAS. THE MINIMUM FION SHALL BE IN ACCORDANCE	DRAWN: REV									
3. REFER TO ARCHITEC REFLECTED CEILING	TURAL DRAWINGS FOR S PLANS.										
4. REFER TO SPECIFICA TYPES.	TIONS FOR SPRINKLER HEAD	REVISION:	ADDENDUM 1	ADDENDUM 4							
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1. ALL SPACES TO BE NOTED.	LIGHT HAZARD, UNLESS OTHERWISE	DATE:	07/30/21	10/07/21	12/09/21						
 THIS AREA TO BE C THIS AREA TO BE C 	RDINARY HAZARD GROUP 1.	REVIEWED:	KAW	KAW	(AW						
4. PROVIDE HIGH TEM AUTOCLAVE ROOM	PERATURE PENDENT HEADS IN THE	AWN:									
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7. NOT USED 8. PROTECT THE EXTENDED	ERIOR PROJECTION WITH DRY		5	DOCUMENTS	I DOCUMENTS						
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		2	heet	No	.:						

Second Floor -Sprinklers

PIPE THROUGH FLOOR

HANGER WITH STEEL

SCALE: NOT TO SCALE

SCALE: NOT TO SCALE

1. WHERE WALL IS FIRE RATED, PROVIDE A LISTED PENETRATION ASSEMBLY.

PIPE THROUGH INTERIOR WALL

SCALE: NOT TO SCALE

PROVIDE PLASTIC WALL PLATES OVER PENETRATIONS WHEN EXPOSED TO VIEW FROM BELOW

WATERSTOP SLEEVE

SEAL PENETRATION AT EACH SIDE

PIPE THROUGH EXTERIOR WALL - ABOVE GRADE

PIPE

BUILDING SPACE

•

NOTES: 1. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.

ABOVE GRADE

SCALE: NOT TO SCALE

2)

3

4

- CHROME SPLIT WALL PLATE

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n Center 1st Road Ste 205 Florida 32669 6.5500 Fax 352.375.3479	

Andrew David Peter FL P.E No. 88584

MN **P** DATE: 07/30/21 10/07/21 12/09/21 REVI KAW KAW KAW DRA RAN RAN PHASE: DESIGN DEV 50% CONST 100% CONST abs Authority Innovation R&D Job Title: North Florida I County see, Florida .eon ___ ⊢ Affiliate 12921 S Newberr Tel 352. CA-514(7 7 7

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Architects Lewis + Whitlock 206 West Virginia St. Tallahassee, Florida 32301 850,942.1718 www.think3d.net

Description: Fire Protection Details Sheet No.: F8.1

	Tioga Town Center 12921 SW 1st Road Ste 205 Newberry, Florida 32669 Tel 352.376.5500 Fax 352.375.3479 CA-5140 Engineer of Record Toby S. Smith FL P.E No. 71	672	THESE DRAWINGS AND RENDERINGS ARE	INSTRUMENTS OF SERVICE. THE DRAWINGS	AND ASSOCIA ED COPIES THEREOF , INCLUDING ELECTRONIC MEDIA AND CADD	FILES, ARE THE PROPERTY OF ARCHITECTS:	LEWIS + WHITLOCK, PA.A. THEIR USE,	ANY PURPOSE EXCEPT BY WRITTEN	AGREEMENT WITH THE ARCHITECT IS PROHIBITED. THIS COPYRIGHT	NOTIFICATION SHALL BE TRUE AS IF	DIRECTLY PLACED ON EACH DRAWING EXHIBIT OR RENDERING ON THIS	DOCUMENT AND SHALL NOT BE REMOVED	
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/ STATUTE ND N AND SA I of Floi 11.com -432-47 VO FULL BUSINESS D DRE DIGGING TO FINE CETRIC, GAS, TELEPH ME FOR YOUR SITE T WITH COLOR-CODE T THE MARKS DURIN RE DESTROYED, REQ TREME CAUTION WHE ETHER SIDE OF THE I RIED UTILITY LINES.	S- FETY ACT rida, Inc. 70 Ays (BUT NOT OUT WHERE ONE, CABLE, O BE D PAINT, S YOUR UEST A EN DIGGING MARKS TO	A 20 Ta 85 W	rch 06 V allal 50,9 WW	iitee Wes has 942. thir	cts tt Vi see 171 hk3c	Lev rgir , Fla d.nee	wis hia S orid et	+ \ St. a 32	Whit 2301		ĸ	Ph	
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- 1. SITE LIGHTING SHALL BE CIRCUITED FROM CIRCUIT 21, VIA EXTERIOR PHOTOCELL AN PANEL 1NPH1 LOCATED IN MAIN ELECTRIC
- REFER TO SHEET 8.1 DETAILS FOR SITE LI 2. FIXTURE CONCRETE BASES.

SHEET KEYNOTES

- PROVIDE WEATHERPROOF TOGGLE-STYLE SWITCH AT MONUMENT SIGN.
- PROVIDE (2)#10, #10 GND IN 1" PVC CONDU MAIN ELECTRICAL ROOM FOR POWER TO I SIGN.
- 3. EXTEND POLE BASE TO BE 2'-6" ABOVE PA ELEVATION TO PROVIDE PROTECTION FRO

ST1

A.L. A A LA

B-ST1

FCM #2918

1NPL2-25

ADJUSTABLE CYLINDER LIGHT MOUNTED T 4. MOUNTING AND AIMING TO BE COORDINAT ARCHITECT.

Tioga Town Center 12921 SW 1st Road Ste 205 Newberry, Florida 32669 Tel 352.376.5500 Fax 352.375.3479 CA-5140 Engineer of Record Toby S. Smith FL P.E No. 71672		ITESE DRAWINGS AND RENDERINGS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS	AND ASSOCIATED COPIES THEREOF , INCLUDING ELECTRONIC MEDIA AND CADD	FILES, ARE THE PROPERTY OF ARCHITECTS:	LEWIS + WHITLOCK, PA.A. THEIR USE, REPRESENTATION OR REPRODUCTION FOR					
SITE LIGHTING SHALL BE CIRCUITED FROM PANEL 1NPH1, CIRCUIT 21, VIA EXTERIOR PHOTOCELL AND TIME CLOCK. PANEL 1NPH1 LOCATED IN MAIN ELECTRICAL ROOM. REFER TO SHEET 8.1 DETAILS FOR SITE LIGHTING FIXTURE CONCRETE BASES.	JRAWN: REVIEWED: DATE:	02/09/22								
PROVIDE WEATHERPROOF TOGGLE-STYLE DISCONNECT SWITCH AT MONUMENT SIGN. PROVIDE (2)#10, #10 GND IN 1" PVC CONDUIT BACK TO										
MAIN ELECTRICAL ROOM FOR POWER TO MONUMENT SIGN. EXTEND POLE BASE TO BE 2'-6" ABOVE PARKING LOT ELEVATION TO PROVIDE PROTECTION FROM VEHICLES. ADJUSTABLE CYLINDER LIGHT MOUNTED TO CANOPY. MOUNTING AND AIMING TO BE COORDINATED WITH ARCHITECT.	ID: REVISION:	1 ADDENDUM 4								
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	Consultant:	Affiliated Engineers Inc	12921 SW 1st Road Ste 20	Newberry, FL 32669	Tel 352.376.5500	CA-5140	_		nstruction Documents	
DRE YOU DIG!	Seal:							Project #: 21414	Phase: 100% Col	
RGROUND VENTION AND SAFETY ACT ne Call of Florida, Inc. shine811.com 1-800-432-4770 OR GO ONLINE TWO FULL BUSINESS DAYS (BUT NOT THAN FIVE) BEFORE DIGGING TO FIND OUT WHERE D FACILITIES (ELECTRIC, GAS, TELEPHONE, CABLE, R) ARE LOCATED. THE REQUIRED TIME FOR YOUR SITE TO BE TED AND MARKED WITH COLOR-CODED PAINT, S OR STAKES. ECT AND PROTECT THE MARKS DURING YOUR ECT. IF MARKS ARE DESTROYED, REQUEST A .OCATE TICKET.	Arc 206 Talla 850, www	hite Wes ahas 942 v.thin	cts st V see .171 nk30	Lev irgir e, Flo 18 d.ne	wis nia S orida et	+ W 6t. a 32;	/hitld	ock		
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- 1. ALL NORMAL POWER LIGHTING CIRCUITS FROM PANEL 1NPH1, UNLESS NOTED OTH
- 2. ALL EMERGENCY POWER LIGHTING CIRCU
- EXIT SIGNS SHALL BE UNSWITCHED FOR (OPERATION.
- SENSORS TO DIM OUTPUT TO 50% WHEN NOT OCCUPIED AND RETURN TO 100% OU OCCUPIED. ALL LIGHTS SHALL BE CONTRO ACTIVATION OF ANY SINGLE SENSOR WIT
- EXTERIOR LIGHTS SHALL BE CONTROLLED PHOTOCELL AND TIMECLOCK.

Tioga Town Center 12921 SW 1st Road Ste 205 Newberry, Florida 32669 Tel 352.376.5500 Fax 352.375.3479 CA-5140 Engineer of Record Toby S. Smith FL P.E No. 71672		INSTRUMENTS OF SERVICE. THE DRAWINGS	AND ASSOCIATED COPIES THEREOF , INCLUDING ELECTRONIC MEDIA AND CADD	FILES, ARE THE PROPERTY OF ARCHITECTS:	LEWIS + WHITLOCK, PA.A. THEIR USE, REPRESENTATION OR REPRODI ICTION FOR	ANY PURPOSE EXCEPT BY WRITTEN	AGREEMENT WITH THE ARCHITECT IS		DIRECTLY PLACED ON EACH DRAWING EXHIRIT OR RENDERING ON THIS	DOCUMENT AND SHALL NOT BE REMOVED	FROM THESE DOCUMENTS.
ITING CIRCUITS SHALL BE FED ESS NOTED OTHERWISE. LIGHTING CIRCUITS SHALL BE SWITCHED FOR CONTINUOUS UTILIZE OCCUPANCY T TO 50% WHEN STAIRWELL IS JRN TO 100% OUTPUT WHEN HALL BE CONTROLLED BY LE SENSOR WITHIN STAIRWELL. BE CONTROLLED BY EXTERIOR DCK.	DRAWN: REVIEWED: DATE:	01/10/22	02/09/22								
FIONAL LIGHTING CONTROL LS.	REVISION:	ADDENDUM 1	ADDENDUM 4								
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D IN BOTTOM OF BULKHEAD. AL DETAILS FOR ADDITIONAL	DATE:	07/30/21	10/07/21	12/09/21							
D RECEPTACLES SHALL BE FED 120V CIRCUIT OUT OF PANEL UPSTREAM OF GFCI 9 POWER PLAN ON SHEET E3.1.	REVIEWED:	TSS	TSS	TSS			_				
ING CIRCUIT FROM PANEL TH LIGHTS. WALL SCONCE OOTH DOOR SHALL BE TFIXTURE INSIDE OF SAME	DRAWN:	LFW	LFW	LFW			_				
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	Consultant:	Affiliated Engineers Inc	12921 SW 1st Road Ste 205	Newberry, FL 32669	Tel 352.376.5500	CA-5140				nstruction Documents	
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- 1. ALL NORMAL POWER LIGHTING CIRCUITS FROM PANEL 1NPH1, UNLESS NOTED OTH ALL EMERGENCY POWER LIGHTING CIRCU
- 2. FED FROM PANEL 1EPH. EXIT SIGNS SHALL BE UNSWITCHED FOR (3. OPERATION.
- STAIRWELL LIGHTS SHALL UTILIZE OCCUF 4. SENSORS TO DIM OUTPUT TO 50% WHEN NOT OCCUPIED AND RETURN TO 100% OI OCCUPIED. ALL LIGHTS SHALL BE CONTRO ACTIVATION OF ANY SINGLE SENSOR WITH EXTERIOR LIGHTS SHALL BE CONTROLLE
- PHOTOCELL AND TIMECLOCK UNLESS IND OTHERWISE. REFER TO E8.1 FOR ADDITIONAL LIGHTING
- INFORMATION AND DETAILS. 6

SHEET KEYNOTES (#)

- 1. PROVIDE JUNCTION BOX AT 60" AFF, SEC FOR INTERNALLY ILLUMNIATED SIGN. PRO POLE, ON/OFF TOGGLE SWITCH FOR CON AT LOCATION TO BE COORDINATED WITH
- 2. CIRCUIT HOISTWAY LIGHTS TOGETHER W AND RECEPTACLES. REFER TO E2.1.

Tioga Town Center 12921 SW 1st Road Ste 205 Newberry, Florida 32669 Tel 352.376.5500 Fax 352.375.3479 CA-5140 Engineer of Record Toby S. Smith FL P.E No. 71672		I HESE DRAWINGS AND RENDERINGS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS	AND ASSOCIATED COPIES THEREOF,	FILES, ARE THE PROPERTY OF ARCHITECTS:	LEWIS + WHITLOCK, PA.A. THEIR USE, BEDBESENITATION OB PEDBODI ICTION FOD	ANY PURPOSE EXCEPT BY WRITTEN	AGREEMENT WITH THE ARCHITECT IS	PROHIBITED. THIS COPYRIGHT NOTIFICATION SHALL BE TRUE AS IF	DIRECTLY PLACED ON EACH DRAWING	DOCUMENT AND SHALL NOT BE REMOVED	FROM THESE DOCUMENTS.	
ES GHTING CIRCUITS SHALL BE FED NLESS NOTED OTHERWISE. ER LIGHTING CIRCUITS SHALL BE I. INSWITCHED FOR CONTINUOUS ALL UTILIZE OCCUPANCY PUT TO 50% WHEN STAIRWELL IS ETURN TO 100% OUTPUT WHEN SHALL BE CONTROLLED BY NGLE SENSOR WITHIN STAIRWELL.	DRAWN: REVIEWED: DATE:	01/10/22	02/09/22									
DITIONAL LIGHTING CONTROL	ID: REVISION:	1 ADDENDUM 1	2 ADDENDUM 4									
TES (#) X AT 60" AFF, SECOND LEVEL, INIATED SIGN. PROVIDE SINGLE SWITCH FOR CONTROL OF SIGN OORDINATED WITH OWNER.	REVIEWED: DATE:	TSS 07/30/21	TSS 10/07/21	TSS 12/09/21								
I LIVIO L2.1.	DRAWN:	LFW	LFW	LFW								
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SCALE : 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO E7.3 FOR FIRE ALARM RISER D MATRIX.

SHEET KEYNOTES

- 1. COORDINATE DETECTOR LOCATION IN P 2' OF SPRINKLER HEAD FOR ELEVATOR S
- COORDINATE REQUIREMENTS AND LOCA 2. ALARM DEVICES/CONNECTIONS WITH FIF CONTRACTOR PRIOR TO COMMENCING V

Tioga Town Center 12921 SW 1st Road Ste 205 Newberry, Florida 32669 Tel 352.376.5500 Fax 352.375.3479 CA-5140 Engineer of Record Toby S. Smith FL P.E No. 71672		INTERE DRAWINGS AND RENDERINGS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS	AND ASSOCIATED COPIES THEREOF , INCLUDING ELECTRONIC MEDIA AND CADD	FILES, ARE THE PROPERTY OF ARCHITECTS:	LEWIS + WHITLOCK, PA.A. THEIR USE, REPRESENTATION OR REPRODI ICTION FOR	ANY PURPOSE EXCEPT BY WRITTEN	AGREEMENT WITH THE ARCHITECT IS PROHIBITED. THIS COPYRIGHT	NOTIFICATION SHALL BE TRUE AS IF	DIRECTLY PLACED ON EACH DRAWING EXHIBIT OR RENDERING ON THIS	DOCUMENT AND SHALL NOT BE REMOVED	FROM THESE DOCUMENTS.			
TES TRE ALARM RISER DIAGRAM AND	DRAWN: REVIEWED: DATE:	02/09/22												
FOR LOCATION IN PIT TO BE WITHIN ID FOR ELEVATOR SHUNT TRIP. REMENTS AND LOCATIONS FOR FIRE NECTIONS WITH FIRE PROTECTION TO COMMENCING WORK.														
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	: DATE:	07/30/21	10/07/21	12/09/21										
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0 4' 8' SCALE : 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO E7.3 FOR FIRE ALARM RISER I MATRIX.

ioga Town Center 2921 SW 1st Road Ste 205 ewberry, Florida 32669 el 352.376.5500 Fax 352.375.3479 A-5140 ngineer of Record oby S. Smith FL P.E No. 71672		INSTRUMENTS OF SERVICE. THE DRAWINGS	AND ASSOCIATED COPIES THEREOF , INCLITIONING FLECTRONIC MEDIA AND CADD	FILES, ARE THE PROPERTY OF ARCHITECTS:	LEWIS + WHITLOCK, PA.A. THEIR USE, REPRESENTATION OR REPRONICTION FOR	ANY PURPOSE EXCEPT BY WRITTEN	AGREEMENT WITH THE ARCHITECT IS	NOTIFICATION SHALL BE TRUE AS IF	DIRECTLY PLACED ON EACH DRAWING FXHIRIT OR RENDERING ON THIS		FROM THESE DOCUMENTS.
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	client: Leon County R&D Authority Tallahassee, Florida										
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FEEDER TAG	CONDUCTORS (SUFFIX G) 3W, +G		CONDUCTORS (SUFFIX NG) 4W, +G 100% N (NEUTRAL NOT A CURRENT CARRYING CONDUCTOR)							
100X	3#1, 1#8 G, 1-1/4"C		3#1, 1#1 N, 1#8 G, 1-1/2"C							
(110X	3#1, 1#6 G, 1-1/4"C		3#1, 1#1 N, 1#6 G, 1-1/2"C							
(125X	3#1, 1#6 G, 1-1/4"C		3#1, 1#1 N, 1#6 G, 1-1/2"C							
(150X	3#1/0, 1#6 G, 1-1/2"C		3#1/0, 1#1/0 N, 1#6 G, 2"C							
175X) 3#2/0, 1#6 G, 1-1/2"C		3#2/0, 1#2/0 N, 1#6 G, 2"C							
200X) 3#3/0, 1#6 G, 2"C		3#3/0, 1#3/0 N, 1#6 G, 2"C							
225X) 3#4/0, 1#4 G, 2"C		3#4/0, 1#4/0 N, 1#4 G, 2-1/2"C							
250X	3-250kcmil, 1#4 G, 2"C		3-250kcmil, 1-250kcmil N, 1#4 G, 2-1/2"C							
300X	3-350kcmil, 1#4 G, 2-1/2"C		3-350kcmil, 1-350kcmil N, 1#4 G, 3"C							
350X	3-500kcmil, 1#3 G, 3"C		3-500kcmil, 1-500kcmil N, 1#3 G, 3-1/2"C							
400X	[2 SETS] 3#3/0, 1#3 G, 2"C		[2 SETS] 3#3/0, 1#3/0 N, 1#3 G, 2"C							
450X	[2 SETS] 3#4/0, 1#2 G, 2"C		[2 SETS] 3#4/0, 1#4/0 N, 1#2 G, 2-1/2"C							
500X	[2 SETS] 3-250kcmil, 1#2 G, 2"C		[2 SETS] 3-250kcmil, 1-250kcmil N, 1#2 G, 2-1/2"C							
600X) [2 SETS] 3-350kcmil, 1#1 G, 2-1/2"C		[2 SETS] 3-350kcmil, 1-350kcmil N, 1#1 G, 3"C							
(1200X) [4 SETS] 3-350kcmil, 1#3/0 G, 2-1/2"	С	[4 SETS] 3-350kcmil, 1-350kcmil N, 1#3/0 G, 3"C							
REFEREN	E TRANSFORMER GROUNDING ELECTRODE CONDUCTOR (SUFFIX NT)	TRANSFORMER GROUNDING ELECTRODE CONDUCTOR (SUFFIX NHT, NNT, & NCT)	CONDUCTORS (SUFFIX NT) 4W + J 100% N (NEUTRAL NOT A CURRENT CARRYING CONDUCTOR)							
50XT) #8	#8	3#6, 1#6 N, 1#8 J, 1"C							
(100XT	#6	#6	3#1, 1#1 N, 1#6 J, 1-1/2"C							
250XT) #2	#2	3-250kcmil, 1-250kcmil N, 1#2 J, 2-1/2"C							
400XT) #2	#1/0	[2 SETS] 3#3/0, 1#3/0 N, 1#1/0 J, 2"C							
500XT) #1/0	#1/0	[2 SETS] 3-250kcmil, 1-250kcmil N, 1#1/0 J, 2-1/2"C							
(800XT) #2/0	#2/0	[3 SETS] 3-300kcmil, 1-300kcmil N, 1#1/0 J, 3"C							

FEEDER SCHEDULE

ΧΧΧΧΧ _____ SEQUENCE - 1, 2, 3, ETC. VOLTAGE - HIGH (H) [480Y/277V] - LOW (L) [208Y/120V] TYPE - DISTRIBUTION BOARD (D), PANELBOARD (P) BRANCH - NORMAL (N), EMERGENCY (E), STANDBY (S) - FLOOR LEVEL - 1, 2

PANEL NAMING CONVENTION

Electrical Power Riser Diagram SCALE: NONE

1

Vn Center V 1st Road Ste 205 Florida 32669 76.5500 Fax 352.375	ted eers [®]
of Record mith FL P.E N	No. 71672
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T MAIN SERVICE RENT AND DATE OF	5
CONNECT STATING //STANDBY ARD ON EAST SIDE."	5
	-

![](_page_127_Figure_9.jpeg)

850,942.1718 www.think3d.net

![](_page_127_Picture_11.jpeg)

![](_page_128_Figure_0.jpeg)

ROOF

SECOND FLOOR

FIRST FLOOR

![](_page_128_Figure_4.jpeg)

2 Electrical Photovoltaic (PV) System Riser Diagram

![](_page_128_Picture_6.jpeg)

# **GROUNDING GENERAL NOTES**

- GROUNDING ELECTRODE CONDUCTORS SHALL BE INSTALLI CONTINUOUS LENGTH FROM POINT OF ORIGIN TO POINT OF TERMINATION. WHERE SPLICES OR JOINTS ARE REQUIRED BE MADE USING U.L. 467 LISTED IRREVERSIBLE COMPRESSI CONNECTIONS.
- GROUNDING ELECTRODE CONDUCTORS SHALL BE CONTAIN CONDUIT AS INDICATED EXCEPT IN VICINITY (WITHIN 5 FEET BARS IN WHICH CASE THEY SHALL BE EXPOSED FOR PURPO ACCESSIBILITY AND INSPECTION.
- ALL TERMINATIONS AT GROUND BARS SHALL BE MADE USIII 3. LISTED IRREVERSIBLE COMPRESSION TERMINALS WITH BOI CONNECTION TO GROUND BAR.
- MOUNT GROUND BARS ON WALL OF RESPECTIVE ROOMS A
  4. LOCATION THAT WILL PROVIDE ADEQUATE CLEARANCE FOF INSPECTION.
- CONNECT G.E.C. TO NEUTRAL BUS IN MAIN SWITCHBOARD I
   LISTED IRREVERSIBLE COMPRESSION TERMINAL WITH BOLT CONNECTION TO BUS BAR. MAKE CONNECTION AT POINT W BONDING JUMPER BUS CONNECTS TO NEUTRAL BUS.
- CONNECT G.E.C. TO TRANSFORMER NEUTRAL BUS OR LUG 467 LISTED IRREVERSIBLE COMPRESSION TERMINAL WITH E
  CONNECTION TO BUS OR LUG. MAKE CONNECTION AT SAM WHERE BONDING JUMPER CONNECTS TO NEUTRAL BUS OR
- BOND EXPOSED METAL PIPING AND EXPOSED STRUCTURAL THE AREA OF EACH GROUND BAR TO THE GROUND BAR US COPPER GROUNDING CONDUCTOR IN 1" PVC CONDUIT.
- 7.

# <u>GROUNDING KEYNOTES</u>

- 1. #4/0 AWG BARE COPPER GROUNDING ELECTRODE CONDUC PVC CONDUIT (MINIMUM).
- #4/0 AWG BARE COPPER GROUNDING ELECTRODE BONDING CONDUCTOR IN 1" PVC CONDUIT (MINIMUM).
- 3. #4/0 AWG BARE COPPER GROUNDING ELECTRODE TAP CON PVC CONDUIT (MINIMUM).
- COPPER GROUNDING ELECTRODE CONDUCTOR, SIZE AS IN FEEDER SCHEDULE ON POWER RISER DIAGRAMS. ROUTE II CONDUIT (MINIMUM).
- #4/0 AWG BARE COPPER GROUNDING BONDING CONDUCTO CONDUIT (MINIMUM).

Center est Road Ste 205 brida 32669 5500 Fax 352.375.3479 Record h FL P.E No. 71672	THESE DRAWINGS AND PENDEPINGS APE	INSTRUMENTS OF SERVICE. THE DRAWINGS	AND ASSOCIATED COPIES THEREOF , INCLIDING FLECTRONIC MEDIA AND CADD	FILES, ARE THE PROPERTY OF ARCHITECTS:	D LEWIS + WHITLOCK, PA.A. THEIR USE, DEDDESENTATION OD DEDDODI ICTION FOD	ANY PURPOSE EXCEPT BY WRITTEN			DIRECTLY PLACED ON EACH DRAWING	L EXHIBIT OR RENDERING ON THIS DOCLIMENT AND SHALL NOT BE REMOVED	FROM THESE DOCUMENTS.
LED IN ONE DF D, THEY SHALL SION INED IN PVC IT) OF GROUND POSES OF ING U.L. 467	DRAWN: REVIEWED: DATE:	02/09/22									
DLTED AT 6'-0" A.F.F. IN											
USING U.L. 467 .TED WHERE MAIN	<u></u>	14									
BUSING U.L. BOLTED	REVISION	ADDENDUM									
R LUG. AL METAL IN SING 1/0 BARE	TE: ID:	-									
	REVIEWED: DA1						_				
CTOR IN 1"	DRAWN:										
NDICATED ON IN 1" PVC			<b>JCUMENTS</b>	NOCUMENTS							
OR IN 1" PVC	PHASE:	DESIGN DEVELOPMENT	50% CONSTRUCTION DC	100% CONSTRUCTION D							
	Client:				I allanassee, Florida			. Job Title		North Florida Innovation Labs	
	Consultant:	Affiliated Engineers Inc	12921 SW 1st Road Ste 205	Newberry, FL 32669	Tel 352.376.5500	CA-5140			2   4   4	1000/ Construction Documents	
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Diagrams

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SWITCH<br>LOCAL 30A/3P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
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SWITCH<br>LOCAL 30A/3P<br>NFDS, NEMA 3R<br>LOCAL 30A/3P<br>NFDS, NEMA 3R<br>LOCAL 30A/3P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Image:               |
|        | 7         8         9         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2 <td< td=""><td>AIR CONDI<br/>AIR CONDI<br/>AIR CONDI<br/>AIR CONDI<br/>AIR CONDI<br/>AIR DRYEF<br/>BOILER<br/>BOILER<br/>BOILER<br/>BOILER<br/>CONDENSI<br/>CONDENSI<br/>CONDENSI<br/>CONDENSI<br/>ELECTRON<br/>FUME EXH<br/>FUME EXH<br/>GENERAL</td><th>DITIONING UNIT</th><td>1st Floor1st Floor1st Floor2nd Floor2nd Floor2nd Floor1st FloorRoof PlanRoof PlanRoof PlanRoof PlanRoof PlanRoof Plan1st Floor1st Floor</td><td>208 V<br/>208 V<br/>208 V<br/>208 V<br/>208 V<br/>208 V<br/>208 V<br/>120 V<br/>480 V<br/>480 V<br/>208 V<br/>208 V<br/>480 V<br/>480 V<br/>208 V<br/>120 V<br/>480 V<br/>120 V</td><td>1         1         1         1         1         1         1         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td>0.52 kVA<br/>0.11 kVA<br/>0.11 kVA<br/>0.11 kVA<br/>0.05 kVA<br/>0.05 kVA<br/>1.92 kVA<br/>1.92 kVA<br/>2.34 kVA<br/>2.34 kVA<br/>2.34 kVA<br/>3.90 kVA<br/>0.30 kVA<br/>11.64 kVA<br/>11.64 kVA<br/>1.18 kVA<br/>1.66 kVA</td><td>3 A<br/>1 A<br/>1 A<br/>1 A<br/>1 A<br/>1 A<br/>1 A<br/>1 A<br/>1</td><td>0 A<br/>3 A<br/>1 A<br/>1 A<br/>1 A<br/>0 A<br/>1 A<br/>20 A<br/>2</td><td>1NPL2         1NPL2         1NPL2         1NPL2         1NPL2         2NPL2         2NPL2         1NPL2         1NPL2         1NPL2         1NPL2         1NPL2         1NPL10         1NPL2         2NPL2         1NPL10         1NPL2         2NPL2         1NPL2         2NPL2         1NPL10         1NPL2         2NPL2         1NPL2         2NPL2         1NPL2         2NPL2         1NPL2         2NPL2         1NPL2         2NPL2         1NPL2         2NPL2         1NPH1         2NPL2         1NPH1</td><td>8,10         8,10         8,10         8,10         6,8         6,8         12         14         32,34,36         38,40,42         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         10         10         16</td><td>15 A         15 A         15 A         15 A         15 A         15 A         15 A         30 A         30 A         15 A         40 A         40 A         40 A         40 A         20 A         20 A         30 A</td><td>1 SET<br/>1 SET</td><td>2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         2       #1</td><td>12       #12 G         12       #12 G         10       #10 G         12       #12 G         3       #10 G         3       #10 G         12       #12 G         12       #12 G         12       #12 G         12       #10 G         12       #10 G         12       #12 G</td><td>3/4" C         3/4" C</td><td></td><td>CO           23           INT           CO           23           INT           CO</td><td>EGRAL<br/>NTROLS BY DIV.<br/>EGRAL<br/>NTROLS BY DIV.</td><td>SWITCH<br/>MOTOR RATED<br/>SWITCH<br/>MOTOR RATED<br/>SWITCH<br/>MOTOR RATED<br/>SWITCH<br/>MOTOR RATED<br/>SWITCH<br/>MOTOR RATED<br/>SWITCH<br/>MOTOR RATED<br/>SWITCH<br/>30A/3P NFDS<br/>30A/3P NFDS<br/>30A/3P NFDS<br/>30A/3P NFDS,<br/>NEMA 3R<br/>30A/3P NFDS,<br/>NEMA 3R<br/>20A, 120V<br/>TOGGLE STYLE<br/>DISC. SWITCH<br/>LOCAL 30A/3P<br/>NFDS, NEMA 3R<br/>LOCAL 30A/3P<br/>NFDS, NEMA 3R<br/>LOCAL 30A/3P<br/>NFDS, NEMA 3R<br/>LOCAL 30A/3P<br/>NFDS, NEMA 3R<br/>LOCAL 30A/3P</td><td>Image: Image: /td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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RATED<br>SWITCH<br>MOTOR RATED<br>SWITCH<br>MOTOR RATED<br>SWITCH<br>MOTOR RATED<br>SWITCH<br>30A/3P NFDS<br>30A/3P NFDS<br>30A/3P NFDS<br>30A/3P NFDS,<br>NEMA 3R<br>30A/3P NFDS,<br>NEMA 3R<br>20A, 120V<br>TOGGLE STYLE<br>DISC. SWITCH<br>LOCAL 30A/3P<br>NFDS, NEMA 3R<br>LOCAL 30A/3P<br>NFDS, NEMA 3R<br>LOCAL 30A/3P<br>NFDS, NEMA 3R<br>LOCAL 30A/3P<br>NFDS, NEMA 3R<br>LOCAL 30A/3P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
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KVA<br>0.05 KVA<br>0.05 KVA<br>1.92 KVA<br>1.92 KVA<br>2.34 KVA<br>2.34 KVA<br>2.34 KVA<br>3.90 KVA<br>0.30 KVA<br>11.64 KVA<br>11.64 KVA<br>1.18 KVA<br>1.66 KVA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
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SWITCH<br>LOCAL 30A/3P<br>NFDS, NEMA 3R<br>LOCAL 30A/3P<br>NFDS, NEMA 3R<br>LOCAL 30A/3P<br>NFDS, NEMA 3R<br>LOCAL 30A/3P<br>NFDS, NEMA 3R<br>C<br>15A/1P NFDS,<br>NEMA 3R<br>C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Image: Second               |
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SWITCH<br>LOCAL 30A/3P<br>NFDS, NEMA 3R<br>LOCAL 30A/3P<br>NFDS, NEMA 3R<br>LOCAL 30A/3P<br>NFDS, NEMA 3R<br>LOCAL 30A/3P<br>NFDS, NEMA 3R<br>C<br>1<br>SA/1P NFDS,<br>NEMA 3R<br>C<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
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                           | DITIONING UNIT                   | 1st Floor1st Floor1st Floor1st Floor2nd Floor2nd Floor1st FloorRoof PlanRoof PlanRoof PlanIst Floor1st F | 208 V<br>208 V<br>208 V<br>208 V<br>208 V<br>208 V<br>208 V<br>120 V<br>480 V<br>480 V<br>208 V<br>208 V<br>120 V<br>480 V<br>208 V<br>120 V<br>480 V<br>120 V<br>480 V<br>120 V<br>480 V<br>480 V<br>480 V<br>480 V<br>480 V<br>480 V<br>480 V<br>480 V<br>480 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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 3         3         3         3         3         3         3         3         3         3         3                                                                                                                                   | 0.52 KVA<br>0.11 KVA<br>0.11 KVA<br>0.11 KVA<br>0.05 KVA<br>0.05 KVA<br>1.92 KVA<br>1.92 KVA<br>2.34 KVA<br>2.34 KVA<br>2.34 KVA<br>2.34 KVA<br>3.90 KVA<br>0.30 KVA<br>11.64 KVA<br>1.18 KVA<br>0.30 KVA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
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                                                          | SWITCHMOTOR RATED<br>SWITCHMOTOR RATED<br>SWITCHMOTOR RATED<br>SWITCHMOTOR RATED<br>SWITCHMOTOR RATED<br>SWITCHJOA/3P NFDS30A/3P NFDS,<br>NEMA 3R30A/3P NFDS,<br>NEMA 3RJOA/3P NFDS,<br>NFDS, NEMA 3RIOCAL 30A/3P<br>NFDS, NEMA 3R <tr< td=""><td>Image: Image: /td></tr<> | Image:               |
|        | 7         8         9         1         2         1         2         1         2         1         2         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         1         2         3         1         2         1         2         1         2         3          1          2          3 <td>AIR CONDIAIR CONDIAIR CONDIAIR CONDIAIR CONDIAIR CONDIAIR DRYERAIR 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 3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3</td><td>0.52 kVA<br/>0.11 kVA<br/>0.11 kVA<br/>0.11 kVA<br/>0.05 kVA<br/>0.05 kVA<br/>1.92 kVA<br/>1.92 kVA<br/>2.34 kVA<br/>2.34 kVA<br/>2.34 kVA<br/>3.4 kVA<br/>3.90 kVA<br/>0.30 kVA<br/>11.64 kVA<br/>11.64 kVA<br/>11.64 kVA<br/>11.64 kVA<br/>11.64 kVA<br/>11.64 kVA<br/>11.64 kVA<br/>11.64 kVA<br/>11.64 kVA<br/>1.18 kVA<br/>1.18 kVA<br/>0.30 kVA<br/>1.18 kVA<br/>1.18 kVA<br/>1.18 kVA<br/>1.18 kVA</td><td>3 A         1 A         1 A         1 A         0 A         1 A         0 A         1 A         0 A         1 A         0 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         2 A         2 A         2 A         2 A         2 A         2 A         2 A</td><td>0 A<br/>3 A<br/>3 A<br/>1 A<br/>1 A<br/>0 A<br/>1 A<br/>0 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>23 A<br/>32 A<br/>32 A<br/>32 A<br/>32 A<br/>32 A<br/>18 A</td><td>1NPL2         1NPL2         1NPL2         1NPL2         1NPL2         2NPL2         2NPL2         1NPL2         1NPL12         1NPL10         1NPL2         2NPL2         1NPL10         1NPL10         1NPL10         1NPL2         2NPL2         1NPL10         1NPL10         1NPL10         1NPL2         2NPL2         1NPL2         2NPL2         1NPL10         1NPL2         SMDP         1NPL1         SMDP         1NPL1         SMDP         SMDP</td><td>8,10         8,10         8,10         8,10         6,8         6,8         12         14         32,34,36         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         3         10         16         20,22,24         6         7         24         6         3</td><td>15 A         15 A         30 A         30 A         15 A         40 A         40 A         40 A         20 A         20 A         20 A         20 A         15 A         15 A         40 A         40 A         20 A         20 A         15 A         15 A         15 A         40 A         40 A         40 A         15 A         15 A         15 A         15 A         20 A         30 A         20 A      <t< td=""><td>1 SET<br/>1 /td><td>2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3    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DRYERBOILERBOILERCONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSI <t< td=""><th>DITIONING UNIT</th><td>1st Floor1st Floor1st Floor1st Floor2nd Floor2nd Floor1st FloorRoof PlanRoof PlanRoof Plan1st Floor1st F</td><td>208 V<br/>208 V<br/>208 V<br/>208 V<br/>208 V<br/>208 V<br/>208 V<br/>120 V<br/>480 V<br/>480 V<br/>208 V<br/>208 V<br/>120 V<br/>480 V<br/>208 V<br/>20</td><td>1         1         1         1         1         1         1         1         3         3         3         3         3       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2 A         2 A         2 A</td><td>0 A<br/>3 A<br/>3 A<br/>1 A<br/>1 A<br/>0 A<br/>1 A<br/>0 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>23 A<br/>32 A<br/>32 A<br/>32 A<br/>32 A<br/>32 A<br/>18 A</td><td>1NPL2         1NPL2         1NPL2         1NPL2         1NPL2         2NPL2         2NPL2         1NPL2         1NPL12         1NPL10         1NPL2         2NPL2         1NPL10         1NPL10         1NPL10         1NPL2         2NPL2         1NPL10         1NPL10         1NPL10         1NPL2         2NPL2         1NPL2         2NPL2         1NPL10         1NPL2         SMDP         1NPL1         SMDP         1NPL1         SMDP         SMDP</td><td>8,10         8,10         8,10         8,10         6,8         6,8         12         14         32,34,36         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         3         10         16         20,22,24         6         7         24         6         3</td><td>15 A         15 A         30 A         30 A         15 A         40 A         40 A         40 A         20 A         20 A         20 A         20 A         15 A         15 A         40 A         40 A         20 A         20 A         15 A         15 A         15 A         40 A         40 A         40 A         15 A         15 A         15 A         15 A         20 A         30 A         20 A      <t< td=""><td>1 SET<br/>1 /td><td>2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3    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 3         3         3         3         3         3         3         3         3         3                                                   | 0.52 kVA<br>0.11 kVA<br>0.11 kVA<br>0.11 kVA<br>0.05 kVA<br>0.05 kVA<br>1.92 kVA<br>1.92 kVA<br>2.34 kVA<br>2.34 kVA<br>2.34 kVA<br>3.4 kVA<br>3.90 kVA<br>0.30 kVA<br>11.64 kVA<br>11.64 kVA<br>11.64 kVA<br>11.64 kVA<br>11.64 kVA<br>11.64 kVA<br>11.64 kVA<br>11.64 kVA<br>11.64 kVA<br>1.18 kVA<br>1.18 kVA<br>0.30 kVA<br>1.18 kVA<br>1.18 kVA<br>1.18 kVA<br>1.18 kVA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         3         10         16         20,22,24         6         7         24         6         3                                                                      | 15 A         30 A         30 A         15 A         40 A         40 A         40 A         20 A         20 A         20 A         20 A         15 A         15 A         40 A         40 A         20 A         20 A         15 A         15 A         15 A         40 A         40 A         40 A         15 A         15 A         15 A         15 A         20 A         30 A         20 A <t< td=""><td>1 SET<br/>1 /td><td>2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         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3RJOA/3P NFDS,&lt;</td><td>Image: Second /td></t<></td></t<> | 1 SET<br>1 | 2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3 | 12       #12 G         10       #10 G         12       #12 G         12       #12 G         12       #12 G         12       #12 G         3       #10 G         3       #10 G         12       #12 G <t< td=""><td>3/4" C 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kVA<br>2.34 kVA<br>2.34 kVA<br>3.90 kVA<br>9.26 kVA<br>3.90 kVA<br>11.64 kVA<br>11.64 kVA<br>11.64 kVA<br>11.64 kVA<br>11.64 kVA<br>11.64 kVA<br>11.64 kVA<br>11.64 kVA<br>1.18 kVA<br>2.39 kVA<br>1.18 kVA<br>1.18 kVA<br>1.18 kVA<br>1.18 kVA<br>1.18 kVA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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NFDS,<br/>NEMA 3RJOA/3P NFDS,&lt;</td><td>Implementation       Implementation         Implementation       Implementa</td></td<></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                 | AIR CONDIAIR CONDIAIR CONDIAIR CONDIAIR CONDIAIR CONDIAIR DRYEFAIR DRYEFBOILERBOILERCONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSI <t< td=""><th>PITIONING UNIT</th><td>1st Floor1st Floor1st Floor2nd Floor2nd Floor2nd Floor1st F</td><td>208 V<br/>208 V<br/>208 V<br/>208 V<br/>208 V<br/>208 V<br/>208 V<br/>120 V<br/>480 V<br/>480 V<br/>208 V<br/>208 V<br/>480 V<br/>208 V<br/>20</td><td>1         1         1         1         1         1         1         1         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3   </td><td>0.52 KVA<br/>0.11 KVA<br/>0.11 KVA<br/>0.11 KVA<br/>0.05 KVA<br/>0.05 KVA<br/>1.92 KVA<br/>1.92 KVA<br/>1.92 KVA<br/>2.34 KVA<br/>2.34 KVA<br/>2.34 KVA<br/>3.20 KVA<br/>9.26 KVA<br/>3.90 KVA<br/>11.64 KVA<br/>11.64 KVA<br/>11.64 KVA<br/>11.64 KVA<br/>11.64 KVA<br/>11.64 KVA<br/>11.64 KVA<br/>1.18 KVA<br/>2.39 KVA<br/>1.18 KVA<br/>1.18 KVA<br/>1.18 KVA<br/>2.350.57 KVA<br/>27.52 KVA</td><td>3 A         1 A         1 A         0 A         1 A         0 A         1 A         0 A         1 A         0 A         1 A         0 A         1 A         10 A         26 A         19 A         3 A         10 A         14 A         11 A         0 A         3 A         3 A         3 A         13 A         14 A         14 A         14 A         14 A         14 A         14 A         3 A         3 A         3 A         3 A         3 A         3 A         3 A         14 A         15 A         162 A         33 A</td><td>0 A<br/>3 A<br/>1 A<br/>1 A<br/>1 A<br/>0 A<br/>1 A<br/>0 A<br/>1 A<br/>20 /td><td>1NPL2         1NPL2         1NPL2         1NPL2         2NPL2         2NPL2         1NPL2         1NPL2         1NPL2         1NPL2         1NPL2         1NPL2         1NPL10         1NPL10         1NPL2         2NPL2         1NPL10         1NPL10         1NPL10         1NPL2         2NPL2         1NPL10         1NPL2         2NPL2         1NPL2         SMDP         1NPH1         SMDP         NNPH1         SMDP         NNPL2         NDP         SMDP         MDP         MDP         MDP</td><td>8,10         8,10         8,10         8,10         6,8         6,8         12         14         32,34,36         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         3         4         5         26,28,30         10         16         20,22,24         6         3         8</td><td>15 A         15 A         15 A         15 A         15 A         15 A         15 A         30 A         30 A         30 A         15 A         40 A         40 A         40 A         20 A         20 A         20 A         20 A         20 A         15 A         40 A         40 A         40 A         20 A         20 A         15 A         40 A         15 A         20 A      <t< td=""><td>1 SET         1 SET</td><td>2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3</td><td>12       #12 G         12       #12 G         10       #10 G         11       #10 G         12       #12 G         12       #12 G         12       #12 G         12       #12 G         12       #10 G         12       #10 G         12       #10 G         12       #10 G         12       #12 G         13       #12 G         14       #12 G         15       #12 G         16 G       #12 G</td><td>3/4" C         3/4" C</td><td></td><td>CO           23           INT           CO           23           INT           CO</td><td>EGRAL<br/>NTROLS BY DIV.<br/>EGRAL<br/>NTROLS BY DIV.</td><td>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCH30A/3P NFDS30A/3P NFDS,<br/>NEMA 3R30A/3P NFDS,<br/>NEMA 3R20A, 120V<br/>TOGGLE STYLE<br/>DISC. SWITCH20A, 120V<br/>TOGGLE STYLE<br/>DISC. SWITCHCAL 30A/3P<br/>NFDS, NEMA 3R20A, 120V<br/>TOGGLE STYLE<br/>DISC. SWITCH15A/1P NFDS,<br/>NEMA 3RCAL 30A/3P<br/>NFDS, NEMA 3R</td><td>Image: Second /td></t<></td></t<>                                                 | PITIONING UNIT                   | 1st Floor1st Floor1st Floor2nd Floor2nd Floor2nd Floor1st F | 208 V<br>208 V<br>208 V<br>208 V<br>208 V<br>208 V<br>208 V<br>120 V<br>480 V<br>480 V<br>208 V<br>208 V<br>480 V<br>208 V<br>20 | 1         1         1         1         1         1         1         1         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3                               | 0.52 KVA<br>0.11 KVA<br>0.11 KVA<br>0.11 KVA<br>0.05 KVA<br>0.05 KVA<br>1.92 KVA<br>1.92 KVA<br>1.92 KVA<br>2.34 KVA<br>2.34 KVA<br>2.34 KVA<br>3.20 KVA<br>9.26 KVA<br>3.90 KVA<br>11.64 KVA<br>11.64 KVA<br>11.64 KVA<br>11.64 KVA<br>11.64 KVA<br>11.64 KVA<br>11.64 KVA<br>1.18 KVA<br>2.39 KVA<br>1.18 KVA<br>1.18 KVA<br>1.18 KVA<br>2.350.57 KVA<br>27.52 KVA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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     1 A         10 A         26 A         19 A         3 A         10 A         14 A         11 A         0 A         3 A         3 A         3 A         13 A         14 A         14 A         14 A         14 A         14 A         14 A         3 A         3 A         3 A         3 A         3 A         3 A         3 A         14 A         15 A         162 A         33 A                                  | 0 A<br>3 A<br>1 A<br>1 A<br>1 A<br>0 A<br>1 A<br>0 A<br>1 A<br>20  | 1NPL2         1NPL2         1NPL2         1NPL2         2NPL2         2NPL2         1NPL2         1NPL2         1NPL2         1NPL2         1NPL2         1NPL2         1NPL10         1NPL10         1NPL2         2NPL2         1NPL10         1NPL10         1NPL10         1NPL2         2NPL2         1NPL10         1NPL2         2NPL2         1NPL2         SMDP         1NPH1         SMDP         NNPH1         SMDP         NNPL2         NDP         SMDP         MDP         MDP         MDP                                                                                                                                                                                                 | 8,10         8,10         8,10         8,10         6,8         6,8         12         14         32,34,36         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         3         4         5         26,28,30         10         16         20,22,24         6         3         8            | 15 A         30 A         30 A         30 A         15 A         40 A         40 A         40 A         20 A         20 A         20 A         20 A         20 A         15 A         40 A         40 A         40 A         20 A         20 A         15 A         40 A         15 A         20 A <t< td=""><td>1 SET         1 SET</td><td>2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3</td><td>12       #12 G         12       #12 G         10       #10 G         11       #10 G         12       #12 G         12       #12 G         12       #12 G         12       #12 G         12       #10 G         12       #10 G         12       #10 G         12       #10 G         12       #12 G         13       #12 G         14       #12 G         15       #12 G         16 G       #12 G</td><td>3/4" C         3/4" C</td><td></td><td>CO           23           INT           CO           23           INT           CO</td><td>EGRAL<br/>NTROLS BY DIV.<br/>EGRAL<br/>NTROLS BY DIV.</td><td>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCH30A/3P NFDS30A/3P NFDS,<br/>NEMA 3R30A/3P NFDS,<br/>NEMA 3R20A, 120V<br/>TOGGLE STYLE<br/>DISC. SWITCH20A, 120V<br/>TOGGLE STYLE<br/>DISC. SWITCHCAL 30A/3P<br/>NFDS, NEMA 3R20A, 120V<br/>TOGGLE STYLE<br/>DISC. SWITCH15A/1P NFDS,<br/>NEMA 3RCAL 30A/3P<br/>NFDS, NEMA 3R</td><td>Image: Second /td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                                                                                                                                                                                                                    | 2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3 | 12       #12 G         10       #10 G         11       #10 G         12       #12 G         12       #12 G         12       #12 G         12       #12 G         12       #10 G         12       #10 G         12       #10 G         12       #10 G         12       #12 G         13       #12 G         14       #12 G         15       #12 G         16 G       #12 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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NFDS,<br>NEMA 3R20A, 120V<br>TOGGLE STYLE<br>DISC. SWITCH20A, 120V<br>TOGGLE STYLE<br>DISC. SWITCHCAL 30A/3P<br>NFDS, NEMA 3R20A, 120V<br>TOGGLE STYLE<br>DISC. SWITCH15A/1P NFDS,<br>NEMA 3RCAL 30A/3P<br>NFDS, NEMA 3R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Image: Second               |
|        | 7         8         9         1         2         1         2         1         2         1         2         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AIR CONDIAIR CONDIAIR CONDIAIR CONDIAIR CONDIAIR CONDIAIR DRYEFAIR DRYEFBOILERBOILERCONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSICONDENSI <t< td=""><th>DITIONING UNIT</th><td>1st Floor1st Floor1st Floor2nd Floor2nd Floor2nd Floor1st F</td><td>208 V<br/>208 V<br/>208 V<br/>208 V<br/>208 V<br/>208 V<br/>208 V<br/>120 V<br/>480 V<br/>480 V<br/>208 V<br/>20</td><td>1         1         1         1         1         1         1         1         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3</td><td>0.52 KVA<br/>0.11 KVA<br/>0.11 KVA<br/>0.11 KVA<br/>0.05 KVA<br/>0.05 KVA<br/>0.12 KVA<br/>1.92 KVA<br/>1.92 KVA<br/>2.34 KVA<br/>2.34 KVA<br/>2.34 KVA<br/>3.20 KVA<br/>9.26 KVA<br/>3.90 KVA<br/>0.30 KVA<br/>11.64 KVA<br/>11.64 KVA<br/>11.64 KVA<br/>11.64 KVA<br/>11.64 KVA<br/>1.18 KVA<br/>0.00 KVA<br/>0.30 KVA<br/>1.18 KVA<br/>27.52 KVA<br/>1.18 KVA</td><td>3 A         1 A         1 A         0 A         1 A         0 A         1 A         0 A         1 A         0 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         2 A         3 A         2 A         3 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1</td><td>0 A<br/>3 A<br/>3 A<br/>1 A<br/>1 A<br/>0 A<br/>1 A<br/>0 A<br/>1 A<br/>20 /td><td>1NPL2         1NPL2         1NPL2         1NPL2         2NPL2         2NPL2         1NPL2         1NPL2         1NPL12         1NPL10         1NPL2         2NPL2         1NPL10         1NPL10         1NPL2         2NPL2         1NPL10         1NPL10         1NPL10         1NPL2         2NPL2         1NPL2         SMDP         1NPH1         SMDP         1NPL12         SMDP         SMDP         SMDP         SMDP         SMDP         MDP         MDP         SMDP</td><td>8,10         8,10         8,10         8,10         6,8         6,8         12         14         32,34,36         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         3         4         5         26,28,30         10         16         20,22,24         6         7         24         6         3         8         3</td><td>15 A         15 A         15 A         15 A         15 A         15 A         15 A         30 A         30 A         30 A         15 A         40 A         40 A         40 A         40 A         20 A         40 A         15 A         40 A         20 A      <t< td=""><td>1 SET         1 SET</td><td>2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3</td><td>12       #12 G         12       #12 G         10       #10 G         11       #10 G         12       #12 G         12       #12 G         12       #12 G         12       #12 G         12       #10 G         12       #10 G         12       #10 G         12       #10 G         12       #12 G</td><td>3/4" C         3/4" C</td><td></td><td>CO           23           INT           CO           23           INT           CO</td><td>EGRAL<br/>NTROLS BY DIV.<br/>EGRAL<br/>NTROLS BY DIV.</td><td>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCH30A/3P NFDS30A/3P NFDS,<br/>NEMA 3R30A/3P NFDS,<br/>NEMA 3R20A, 120V<br/>TOGGLE STYLE<br/>DISC. SWITCH20A, 120V<br/>TOGGLE STYLE<br/>DISC. SWITCHCAL 30A/3P<br/>NFDS, NEMA 3RCAL 30A</td><td>Image: Sector of the sector</td></t<></td></t<> | DITIONING UNIT                   | 1st Floor1st Floor1st Floor2nd Floor2nd Floor2nd Floor1st F | 208 V<br>208 V<br>208 V<br>208 V<br>208 V<br>208 V<br>208 V<br>120 V<br>480 V<br>480 V<br>208 V<br>20 | 1         1         1         1         1         1         1         1         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3                     | 0.52 KVA<br>0.11 KVA<br>0.11 KVA<br>0.11 KVA<br>0.05 KVA<br>0.05 KVA<br>0.12 KVA<br>1.92 KVA<br>1.92 KVA<br>2.34 KVA<br>2.34 KVA<br>2.34 KVA<br>3.20 KVA<br>9.26 KVA<br>3.90 KVA<br>0.30 KVA<br>11.64 KVA<br>11.64 KVA<br>11.64 KVA<br>11.64 KVA<br>11.64 KVA<br>1.18 KVA<br>0.00 KVA<br>0.30 KVA<br>1.18 KVA<br>27.52 KVA<br>1.18 KVA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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 1 A         1 A         1 A         1 A         1 A         2 A         3 A         2 A         3 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 | 0 A<br>3 A<br>3 A<br>1 A<br>1 A<br>0 A<br>1 A<br>0 A<br>1 A<br>20  | 1NPL2         1NPL2         1NPL2         1NPL2         2NPL2         2NPL2         1NPL2         1NPL2         1NPL12         1NPL10         1NPL2         2NPL2         1NPL10         1NPL10         1NPL2         2NPL2         1NPL10         1NPL10         1NPL10         1NPL2         2NPL2         1NPL2         SMDP         1NPH1         SMDP         1NPL12         SMDP         SMDP         SMDP         SMDP         SMDP         MDP         MDP         SMDP                                                                                                                                                                                                                           | 8,10         8,10         8,10         8,10         6,8         6,8         12         14         32,34,36         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         3         4         5         26,28,30         10         16         20,22,24         6         7         24         6         3         8         3                           | 15 A         30 A         30 A         30 A         15 A         40 A         40 A         40 A         40 A         20 A         40 A         15 A         40 A         20 A <t< td=""><td>1 SET         1 SET</td><td>2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         2       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3       #1         3</td><td>12       #12 G         12       #12 G         10       #10 G         11       #10 G         12       #12 G         12       #12 G         12       #12 G         12       #12 G         12       #10 G         12       #10 G         12       #10 G         12       #10 G         12       #12 G</td><td>3/4" C         3/4" C</td><td></td><td>CO           23           INT           CO           23           INT           CO</td><td>EGRAL<br/>NTROLS BY DIV.<br/>EGRAL<br/>NTROLS BY DIV.</td><td>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCHMOTOR RATED<br/>SWITCH30A/3P NFDS30A/3P NFDS,<br/>NEMA 3R30A/3P NFDS,<br/>NEMA 3R20A, 120V<br/>TOGGLE STYLE<br/>DISC. SWITCH20A, 120V<br/>TOGGLE STYLE<br/>DISC. SWITCHCAL 30A/3P<br/>NFDS, NEMA 3RCAL 30A</td><td>Image: Sector of the sector</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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   #10 G         12       #12 G         12       #12 G         12       #12 G         12       #12 G         12       #10 G         12       #10 G         12       #10 G         12       #10 G         12       #12 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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SWITCH20A, 120V<br>TOGGLE STYLE<br>DISC. SWITCHCAL 30A/3P<br>NFDS, NEMA 3RCAL 30A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Image: Sector of the sector               |
|        | 7         8         9         1         2         1         2         1         2         1         2         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AIR CONDI         AIR DRYEF         BOILER         BOILER         CONDENSI         CONDENSI         CONDENSI         CONDENSI         ELECTRON         FUME EXH         GENERAL         GENERAL         HPW REVE         UNIT         HEATING H         HEATING H         ROOFTOP         ROOFTOP         SUMP PUN         WATER HE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Floor                                                                                                                                                                                                                                       | 208 V         120 V         480 V         208 V         208 V         120 V         480 V         208 V         480 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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1.18 KVA  1.18 KVA  0.00 KVA  1.18 | 3 A         1 A         1 A         0 A         1 A         0 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         2 A         3 A         2 A         3 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 A         1 | 0 A<br>3 A<br>3 A<br>1 A<br>1 A<br>0 A<br>1 A<br>0 A<br>1 A<br>20 A<br>23 A<br>32 A<br>23 A<br>32 A<br>23 A<br>18 A<br>19 A<br>10  | 1NPL2         1NPL2         1NPL2         1NPL2         2NPL2         2NPL2         1NPL2         1NPL2         1NPL12         1NPL10         1NPL2         2NPL2         1NPL10        
1NPL10         1NPL2         2NPL2         1NPL10         1NPL10         1NPL10         1NPL2         2NPL2         1NPL2         2NPL2         1NPL10         1NPL2         SMDP         1NPL1         SMDP         1NPL1         SMDP         MDP         SMDP         MDP         NDP         NDP | 8,10         8,10         8,10         8,10         6,8         6,8         12         14         32,34,36         38,40,42         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         2,4,6         3         4         5         26,28,30         10         16         20,222,24         6         3         8         3         18 | 15 A         30 A         30 A         30 A         15 A         40 A         40 A         40 A         40 A         20 A         450 A      <                                                                                                                      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NFDS,&lt;</td><td>Image: Image: /td></t<>                                                                                        | 3/4" C         3/4" C |                                           | CO           23           INT           CO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EGRAL<br>NTROLS BY DIV.<br>EGRAL<br>NTROLS BY DIV.                            | SWITCHMOTOR RATED<br>SWITCHMOTOR RATED<br>SWITCHMOTOR RATED<br>SWITCHMOTOR RATED<br>SWITCHMOTOR RATED<br>SWITCHJOA/3P NFDSJOA/3P NFDS,<br>NEMA 3RJOA/3P NFDS,<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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LUMINAIRE SCHEDULE

![](_page_129_Picture_2.jpeg)

## **GENERAL NOTES**

مر	1.	LIGHTING VENDOR TO COORD APPROPRIATE FLANGE FOR R ON CEILING TYPE IN WHICH FI
( { {	2.	ADJUST LIGHT FIXTURE LOCA COORDINATE WITH LAB EQUIF HOODS, ETC.
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Tioga Town Center 12921 SW 1st Road Ste 205 Newberry, Florida 32669 Tel 352.376.5500 Fax 352.375.3479 CA-5140 Engineer of Record Toby S. Smith FL P.E No. 71672		INESE DRAWINGS AND RENDERINGS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS	AND ASSOCIATED COPIES THEREOF , INCLITIONING FLECTRONIC MEDIA AND CADD	FILES, ARE THE PROPERTY OF ARCHITECTS:	LEWIS + WHITLOCK, PA.A. THEIR USE,	REPRESENTATION OR REPRODUCTION FOR ANY PURPOSE EXCEPT BY WRITTEN	AGREEMENT WITH THE ARCHITECT IS	PROHIBITED. THIS COPYRIGHT NOTIFICATION SHALL BE TRUE AS IF	DIRECTLY PLACED ON EACH DRAWING	DOCUMENT AND SHALL NOT BE REMOVED	FROM THESE DOCUMENTS.
GHTING VENDOR TO COORDINATE AND PROVIDE PROPRIATE FLANGE FOR RECESSED FIXTURES BASED N CEILING TYPE IN WHICH EIXTURE IS TO BE INSERTED. DJUST LIGHT FIXTURE LOCATIONS IN FIELD TO CORDINATE WITH LAB EQUIPMENT SUCH AS FUME DODS, ETC.	DRAWN: REVIEWED: DATE:	01/10/22	02/09/22								
	DRAWN: REVIEWED: DATE: ID: REVISION:	LFW TSS 07/30/21 1 ADDENDUM 1	LFW TSS 10/07/21 2 ADDENDUM 4	LFW TSS 12/09/21							
	PHASE:	DESIGN DEVELOPMENT	50% CONSTRUCTION DOCUMENTS	100% CONSTRUCTION DOCUMENTS							
	Client:				I allahassee, Florida			Job Title:		NOTIN FIORIDA INNOVATION LADS	
	Seal: Consultant:	Affiliated Engineers Inc	12921 SW 1st Road Ste 205	Newberry, FL 32669	Tel 352.376.5500	CA-5140		Droiect #: 01111		Phase: 100% Construction Documents	
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