A D D E N D U M N O. 2

St. Johns River State College
Library Renovation & Expansion
Orange Park, Florida
BID-SJR-03-2019

HJ Comm. No. 18064.00

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Addendum No. 2, 9 items, 6 pages

Revised Project Manual Sections:
00 01 10 Table of Contents, 00 31 13 Project Schedule,
07 42 15 Formed Metal Ceiling And Wall Panels, 09 51 23 Acoustical Tile Ceilings,
32 93 00 Plants

New Project Manual Sections:
07 21 40 Foamed-In-Place Masonry Wall Insulation, 10 51 23 HDPE Lockers

Revised Drawings:
G-010, L-100, L-101, L-102, L-103, S-004, S-005, AD-101, AD-102, A-100, A-101, A-130, A-131, A-610, A-700, M-101, M-101A, FP001, E-201, E-201A, T-101 and T-101A

New Drawings:
A-300

January 28, 2020

I hereby certify that this Addendum was prepared by me or under my direct supervision and that I am a duly registered Architect under the Laws of the State of Florida.

HARVARD JOLLY ARCHITECTURE

Philip L. Trezza, Jr., AIA, LEED AP, Sr. Vice President / Principal

ADDENDUM NO. 2

St. Johns River State College
Library Renovation & Expansion
Orange Park, Florida
BID-SJR-03-2019

HJ Comm. No. 18064.00
HARVARD JOLLY, INC., ARCHITECTS, P.A., A.I.A. #AAC000119
2714 Dr. Martin Luther King Jr. Street North, St. Petersburg, Florida 33704

Addendum No. 2, January 28, 2020 – To be attached to and form a part of the foregoing documents for the above referenced Project. The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum. Each bidder shall acknowledge receipt of this Addendum in his proposal or bid.

ITEM 1: ADDENDUM DOCUMENTS:

A. All Addendum Documents can be obtained at the following plan rooms:
- LDI Reproprinting, 550 Wells Road, Suite 100, Orange Park, Florida 32073 (904-579-4027) orangepark@ldireproprinting.com.
- Southside Blueprint Planroom, 1910 Huntsford Road, Jacksonville, FL 32207 (904-398-0575)

ITEM 2: REVISED PROJECT MANUAL SECTIONS:

A. Project Manual Section 00 01 10 – TABLE OF CONTENTS has been revised and is included with and thereby made a part of this Addendum.

B. Project Manual Section 00 31 13 PROJECT SCHEDULE has been revised and is included with and thereby made a part of this Addendum.

C. Project Manual Section 07 42 15 FORMED METAL CEILING AND WALL PANELS has been revised and is included with and thereby made a part of this Addendum.

D. Project Manual Section 09 51 23 ACOUSTICAL TILE CEILINGS has been revised and is included with and thereby made a part of this Addendum.

E. Project Manual Section 32 93 00 PLANTS has been revised and is included with and thereby made a part of this Addendum.

ITEM 3: NEW PROJECT MANUAL SECTIONS:

A. Project Manual Section 07 21 40 FOAMED-IN-PLACE MASONRY WALL INSULATION has been added and is included with and thereby made a part of this Addendum.

B. Project Manual Section 10 51 23 HDPE LOCKERS has been added and is included with and thereby made a part of this Addendum.

ITEM 4: DELETED PROJECT MANUAL SECTIONS:

A. Delete all reference to Project Manual Section 07 21 19 FOAMED-IN-PLACE INSULATION.

B. Delete all reference to Project Manual Section 09 65 16 RESILIENT SHEET FLOORING.

C. Delete all reference to Project Manual Section 10 43 16 FIRST AID CABINET.

D. Delete all reference to Project Manual Section 10 51 21 PLASTIC LAMINATE LOCKERS.

ITEM 5: REVISED DRAWINGS:

A. Drawing Sheet G-010, has been revised, marked with Revision No. 2, dated January 28, 2020, and is included with and hereby made a part of this Addendum.

B. Drawing Sheets L-100, L-101, L-102 and L-103 have been revised, marked with Revision No. 2, dated January 28, 2020, and are included with and hereby made a part of this Addendum.

C. Drawing Sheets S-004 and S-005 have been revised, marked with Revision No. 2, dated January 28, 2020, and are included with and hereby made a part of this Addendum.

D. Drawing Sheets AD-101 AD-102, A-100, A-101, A-130, A-131, A-610 and A-700, have been revised, marked with Revision No. 2, dated January 28, 2020, and are included with and hereby made a part of this Addendum.

E. Drawing Sheets M-101 and M-101A, have been revised, marked with Revision No. 2, dated January 28, 2020, and are included with and hereby made a part of this Addendum.

F. Drawing Sheet FP001, has been revised, marked with Revision No. 2, dated January 28, 2020, and is included with and hereby made a part of this Addendum.

G. Drawing Sheets E-201 and E-201A, have been revised, marked with Revision No. 2, dated January 28, 2020, and are included with and hereby made a part of this Addendum.

H. Drawing Sheets T-201 and T-201A, have been revised, marked with Revision No. 2, dated January 28, 2020, and are included with and hereby made a part of this Addendum.

ITEM 6: NEW DRAWINGS:

A. Drawing Sheet A-300 marked with Revision No. 2, dated January 28, 2020, is included with and hereby made a part of this Addendum.

ITEM 7: QUESTIONS FROM BIDDERS

A. Below are responses to questions from bidders. Clarifications held therein are included with and hereby made a part of this Addendum.

1. What is an approximate amount of casework and built in counters for removal. I see notes on a few areas but other areas are not noted that have existing casework not noted to be removed on demo plan. Also I only see one note regarding the floors to be removed, I am assuming this note relates to all flooring inside of existing Building L (wood plank, vct, carpet and carpet squares). Please confirm.
   Response: Refer attached revised sheet AD-101 for extent of casework removal. Concerning the note for removal of flooring finish (D-6); assumption is correct, remove all floor finishes inside of existing Building L and prepare floor to receive new floor finish.

2. Will the entire slab areas need to be removed as per Demo Note #7 on drawing AD-101, or will chases only need to be cut in those areas?
   Response: D-7 demolition note indicates an area where we anticipate underslab work for plumbing; we as the AE team do not specifically require for the entire area to demolished to accomplish the underslab work. We are simply bringing attention to underslab work in this area that will require removal of concrete slab. Follow requirements to prepare the grade under the slab to receive the new slab once underslab work is complete.

3. Will all bookshelves, tables, desks, etc., be removed prior to mobilization for demo?
   Response: All furniture will be removed prior to Notice to Proceed being issued. Refer attached revised sheet AD-101 for extent of casework removal. Coordinate with SJRSC prior to removal of casework for any of it to be salvaged for the College.

4. Sheet C-07 - What is the scale of the blown-up plan showing the 3" water and 6" sewer lines?
   Response: The civil drawings do not state a scale of 1"=20' or 1"=10'; but instead indicate a graphic scale. This includes the blown-up plan. Graphic scale consists of blocks in series, with first block in each graphic scale starting with a set length of either 5', 10' or 20'. Every fourth block thus in respective graphic scales is at a length of 20', 40' or 80'. In the case of the blown-up plan, when the drawing C-06 is plotted on full size sheet (30x42); its scale would be 1"=10'.

5. Section 09 84 33 – Sound Absorbing Wall Units – The color refers to the drawings for selection or as selected by the Architect. I do not see on the drawings any color selection. Are we to use standard color selections for pricing purposes?
   Response: Per specifications, basis of design fabric for the sound-absorbing wall units is "Meteor" as manufactured by Carnegie. Architect to select a minimum of (3) colors from this fabric type color range of (71) colors. The (3) fabric colors PF1, PF2 and PF3 are indicated on interior elevations.

6. Specs & Drawings – I noticed the specs call for the countertops to be per drawings, however, I can not find where it calls out the color. My question is a general question for all colors of products not specified in the specs or drawings. Do we need to base pricing on standard colors from the manufacturer?
   Response: SS1 and SS2 solid surface countertop material indicated on interior elevations in the drawings; shall be provided as per requirements of specification section 12 36 63 QUARTZ COUNTERTOPS. Base pricing based on Price Group C.

7. There are 3 manufacturers provided in Spec for Railings. 1) Superior- is advising they do not fabricate welded railings. 2) Tubular Specialties has discontinued railings. 3) R&B Wagner supplies only compenents without manufacturing railings. Please advise on vendor for railing systems or requiremens for railings.
   Response: Replace all (3) manufacturer's listed under paragraph 2.1-1-A of specification section 05 52 13 PIPE AND TUBE RAILINGS to read as follows:

   1. Aluminum Pipe and Tube Railings:
      a. Petersen Metals (*www.petersenmetals.com*)
      b. Tri Tech Inc. (*www.tritechhandrails.com*)
      c. Tuttle (*www.tuttlehandrailings.com*).

8. There is a shaded curved ceiling between Rooms M-113 & M-114, on sheet A130, that has a note saying ACT #1 BLACK. Should we assume that the other 3 curved ceilings that are shaded will also be a BLACK ceilings ?
   Response: Refer attached revised drawings A-130 and A-131 as response to the above question.

9. AD-101 & AD-102 Architectural Demolition Plans: Please clarify demolition notes related to existing doors/windows at Media Center. Are demolition/replacement of existing windows part of add alternate or base bid? Numerous window & door openings call to demo & replace that were previously thought to be part of Add Alternate.
   Response: Doors and windows to be removed as part of the Base Bid are clearly identified by demo notes D-2 and D-9 on the demolition plan. Doors and windows to be removed as part of Add Alternate 2 are identified by demo note D-12. Refer attached revised drawings AD-101 and AD-102 for revisions to the Demolition drawings; and clarification on scope for removal of doors and windows as part of Base Bid as opposed to removal in Add Alternate 2.

10. Please reference L-101. A call out note at Existing Building 'L' indicates, *At each downspout, install an area 2'x'2' square x4" deep of #57 stone gravel, edged with 5" deep black aluminum garden edging, typ.* Please provide details associated with the black aluminum garden edging ie, finish material, size and thickness of aluminum.
    Response: At existing building downspouts, #57 stone gravel has been removed. The edging material is no longer required at these locations. Refer attached revised drawings L-101 and L-102, changing note for revised landscaping requirement at downspout discharge.

11. Per 08 1113, 2.2, B. Interior doors and frames are called to be galvanized. Is this correct?
    Response: Yes.

12. ACM Panels stand for? Refer to 1, 2, & 3/A-511 (ACD is aluminum canopy deck per AS-010): Are these Formed Metal Ceiling & Wall Panels per 07 4215? Designation not on drawings that we have found.
    Response: ACM stands for Aluminum Composite Material. Yes, these are formed metal ceiling and wall panels per specification section 07 42 15 FORMED METAL CEILING AND WALL PANELS. Refer attached revised specification section 07 42 15 FORMED METAL CEILING AND WALL PANELS to include the ACM designation.

13. Sheet C-06 illustrates work assocuated with endwall/regrading of existing storm pond "d". Please advise if acceptable to dewater back into pond "d" or other area.
    Response: The dewatering operation can discharge back into Pond D or directly into its outfall structure as long as no suspended solids are conveyed and the flow rate does not exceed the maximum capacity of the treatment device or 100,000 gallons per day, whichever is less. Contractor will be responsible for the required dewatering permit.

14. Please clarify/provide wall framing heights for existing Library partition walls. Section through building would be helpful
    Response: Refer added sheet A-300 for building sections. These sections are included to provide a reference for bearing elevations and general heights. Coordinate with architectural wall assembly details and wall sections plus structural drawings for additional information. Provide kicker bracing as required for stud framing to deck that exceeds limiting height for unbraced length.

15. Sheet A130 indicates ceiling type and ceiling height at variance with SheetA700 finish ceiling schedule. The schedule indicates 8ft ceilings throughout. Please clarify heights of ceilings for the project.
    Response: Refer attached revised drawings A-130, A-131 and A-700 as response to the above question.

16. There is furniture and built-in casework in the existing Library that is not identified on AD-101. Will all existing furniture and built-in casework be removed by the owner prior to construction?
    Response: All furniture will be removed prior to Notice to Proceed being issued. Refer attached revised sheet AD-101 for extent of casework removal. Coordinate with SJRSC prior to removal of casework for any of it to be salvaged for the College.

17. Numerous details reference the 7/8" cement plaster/stucco being applied over a metal lath, attached by S.S. fasteners. Is a cement plaster/stucco system, with fiber mesh additive, applied directly to the CMU over a bonding agent acceptable, without the metal lath?
    Response: No.

18. L-103, Landscape note #14 calls for "decorative polished pebbles". Please specify type of polished pebbles to used. Also, will a landscape border be required between the areas landscaped with polished pebbles and areas with grass?
    Response: Refer attached revised specification section 32 93 00 PLANTS as response to the above question.

19. In the Specs, section 01 45 00 "Testing Laboratory Services", under subsection 1.4.A, indicates that the contractor is responsible for employing and paying for testing. In many cases, public entities require testing done by the testing agency of their choosing. Please confirm that all testing is the responsibility of the contractor and clarify that a specific testing firm is not required.

    Response: All construction related testing required is responsibility of the contractor. There is no requirement on a specific testing firm to be considered for the testing services. Testing agency selection shall comply with requirements of the project specifications.

ITEM 8: CLARIFICATIONS:

A. At retaining wall, provide waterproofing as per requirements of specification section 07 14 16 COLD FLUID-APPLIED WATERPROOFING; at the inside face of the retaining wall.

B. Quality Assurance requirements as per paragraph 1.8 of specification section 05 12 00 STRUCTURAL STEEL FRAMING are required. Third party inspections in-lieu of AISC conformance will not be accepted.

C. Foamed-in-place insulation is required at the masonry units. Refer added specification section 07 21 40 FOAMED-IN-PLACE MASONRY WALL INSULATION.

D. Please refer attached sketch 'ADD2-1' for layout of new plaque. Installation location to be field determined. College to provide artwork for name of College on the plaque. Logo in color.

E. Window sills shall be 3/4" thick and shall be provided as per requirements of specification section 09 75 23 SOLID SURFACE WINDOW SILLS. Color to be selected from manufacturers full range of selection.

F. SS1 and SS2 solid surface material indicated on interior elevations in the drawings; shall be provided as per requirements of specification section 12 36 63 QUARTZ COUNTERTOPS.

G. Book theft protection system to be provided NEW, as per requirements of specification section 11 51 19 BOOK THEFT PROTECTION EQUIPMENT. Refer attached revised electrical and technology drawings for power and data to be provided for the new book theft protection equipment. Also, salvage existing book theft detection equipment as indicated in the demolition drawings for the use by the College.

H. Conforming to project specification section 00 31 13 PROJECT SCHEDULE, please be advised that period for Substantial Completion is 11 months (335 days) from date of Notice to Proceed. Final Completion will be 30 days after substantial completion. This corrects response to a Pre-Bid Meeting question issued as part of Addendum 1.

ITEM 9: APPROVED MANUFACTURERS:

The following manufacturers are to be considered acceptable manufacturers (suppliers and fabricators) for the Sections of the Specifications listed. Listed manufacturers are required to bid on products equal in type and design, size, function, and quality to that originally specified. Final decisions as to equality of products specified versus those proposed shall be made by the Architect.

Section 09 84 33 – SOUND-ABSORBING WALL UNITS

- Commercial Acoustics

Section 10 14 23 – PANEL SIGNAGE

- Signco Architectural Signage Corp.

Section 23 73 13 – AIR HANDLING UNITS, CENTRAL STATION, MODULAR

- Daikin, Vision.

END OF ADDENDUM NO. 2

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SECTION 00 31 13 – PROJECT SCHEDULE

- Bid Documents/Plans Available to Pre-Qualified General Contractors
  - Date: January 2nd, 2020
- **Mandatory Pre-Bid Conference**
  - Date: January 7, 2020
  - Time: 2:00 P.M.
  - Location: Orange Park Campus
    - St. Johns River State College, Building A, Room A0072, 283 College Drive, Orange Park, FL 32065
- **Deadline for Bid Submission**
  - Date: February 4, 2020
  - Time: 2:00 P.M.
  - Location: Palatka Campus
    - Sealed bids, bearing on the outside of the envelope the name of the contractor and '**BID-SJR-03-2019'**, must be received in the **St. Johns River State College, Business Office, Attention: Beverly Barker, 5001 St. Johns Avenue, Palatka, FL 32177**
- Public Meeting to Verbally Announce Bids Received (Bid Opening)
  - Date: February 4, 2020
  - Time: 2:30 P.M.
  - Location: Palatka Campus
    - St. Johns River State College, **Room A-154**, 5001 St. Johns Avenue, Palatka, FL 32177
- Electronic Posting of Bid Results & Notice of Intent to Award
  - Date: February 5, 2020 at http://www.sjrstate.edu/032019
- Award of Bid by SJR STATE COLLEGE
  - Date: ~~February 19, 2020~~ **March 11, 2020**
  - Location: DBOT Meeting ~~St. Augustine~~ **Palatka** Campus
    - St. Johns River State College, ~~2990 College Drive, St. Augustine, FL 32084~~ **5001 St. Johns Avenue, Palatka, FL 32177**
- Electronic Posting of Bid Award
  - Date: ~~February 20, 2020 at http://www.sjrstate.edu/032019~~ **March 12, 2020 at http://www.sjrstate.edu/032019**

- Notice to Proceed Issued:
    - Upon receipt of Executed Contract, Bonds, Certificate of Insurance, & Permit
    - Pre-Construction Meeting
    - Date/Time/Location**: TBD**
- Construction Start
    - Upon Notice to Proceed Issued
- Substantial Completion
    - 335 Calendar Days from Notice to Proceed Date
- Final Completion
    - 30 Days after Substantial Completion

END OF SECTION 00 31 13

SECTION 07 21 40 – FOAMED-IN-PLACE MASONRY WALL INSULATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. The provisions of the General Conditions, Supplementary Conditions, Drawings, Specifications and the Sections included under Division 1, General Requirements and References are included as a part of this Section as though bound herein.

1.2 SUMMARY

A. Section Includes:

1. Provide labor, material, services and equipment necessary to furnish and install work as indicated and as specified herein, which includes, but is not limited to:
   a. Foamed-in-place masonry wall insulation for exterior hollow concrete masonry walls.

1.3 REFERENCES

A. ASTM D1621 – Standard Test Method for Compressive Properties of Rigid Cellular Plastics.
B. ASTM D1622 – Standard Test Method for Apparent Density of Rigid Cellular Plastics.
C. ASTM E84 – Surface Burning Characteristics of Building Materials.
D. ASTM E96 – Standard Test Method for Water Vapor Transmission Rate of Materials.
E. ASTM C177 – Standard Test Method for Steady State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded Hot-Plate Apparatus.
F. ASTM C1029 – Standard Specification for Spray-Applied Rigid Cellular Polyurethane Insulation Thermal Insulation.
G. FBC – Florida Building Code.

1.4 ACTION SUBMITTALS

A. Product Data: Submit product data for insulation specified.

B. Test Reports: Submit product certified test reports from and based on tests performed by a qualified independent testing agency evidencing compliance of insulation products with specified requirements including those for thermal resistance, fire-test-response characteristics, and other properties, based on comprehensive testing of current products.

1.5 QUALITY ASSURANCE

A. Single-Source Responsibility for Insulation Products: Obtain each type of building insulation from a single source with resources to provide products complying with requirements indicated without delaying the Work.

B. Installers Qualifications: Installer shall be a firm having a minimum of five consecutive years of documented experience with the installation of foam plastic masonry wall insulation.

C. Fire Performance Characteristics: Insulation materials shall be identical to those whose fire performance characteristics, as listed for each material or assembly of which insulation is a part, have been determined by testing, per methods indicated, by a testing agency acceptable to authorities having jurisdiction.

1. Surface Burning Characteristics: ASTM E-84
2. Combustion Characteristics: ASTM E-136

D. Pre-installation Conference: Conduct conference at Project site.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Protect insulation materials from physical damage and from deterioration by moisture, soiling, and other sources. Comply with manufacturer's written instructions for handling and protecting during installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturer shall be one of the following however products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and functional qualities of the specified product and acceptance is provided by the Architect in writing prior to bidding.

1. Tailored Chemical Products of Florida
2. C.P. Chemical Company
3. Jesco, Inc.
4. Thermal Corp. of America

2.2 MATERIALS

A. Injected Foam Insulation – Core-Fill 500; Foamed-In-Place Insulation: The insulation system shall be two-component, nitrogen-based, non-toxic amino-plast resin, utilizing a foaming catalyst, and air as a delivery method. Foam plastic insulation resin shall be pre-mixed, by the manufacture, to insure consistency.

1. Surface Burning Characteristics: Maximum flame spread, smoke developed and fuel contributed of 15, 75, and 0 respectively.
2. Combustion Characteristics: Non-combustible, Class A.
3. Thermal Values: R-Value of 4.91 per inch at 32 degrees F mean; ASTM C-177.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements of Sections in which substrates and related work are specified and to determine if other conditions affecting performance of insulation are satisfactory. Do not proceed with installation until unsatisfactory conditions have been corrected.

B. Verify site conditions prior to commencement of installation.

C. Verify work within construction spaces or crevices are complete prior to insulation application.

D. Verify that surfaces are clean, dry, and free of matter that may inhibit insulation adhesion.

3.2 PREPARATION

A. Mask and protect adjacent surfaces from over spray or dusting.

B. Apply primer in accordance with manufacturer's instructions.

3.3 INSTALLATION

A. General: Comply with insulation manufacturer's written instructions applicable to products and application indicated.

1. Fill all open cells and voids in all exterior hollow concrete masonry walls.

B. Apply insulation in accordance with manufacturer's instructions.

C. Apply insulation to a uniform monolithic density without voids.

D. Coordinate installation of protective covering to achieve fire rating required.

E. Patch damaged areas.

F. Inspection includes verification of insulation and overcoat thickness and density.

END OF SECTION 07 21 40

SECTION 07 42 15 – FORMED METAL CEILING AND WALL PANELS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. The provisions of the General Conditions, Supplementary Conditions, and the Sections included under Division 1, General Requirements, are included as a part of this Section as though bound herein.

1.2 SUMMARY

A. Provide labor, materials, and equipment necessary for providing the preformed metal roofing and related Work as indicated and required for a complete and watertight installation.

B. Items provided under this Section includes, but is not limited to:

1. Formed metal wall and fascia panels.
2. Formed metal ceiling panels.
3. Flashings, closures, and trim.

1.3 REFERENCES

A. ASTM E 283 – Rate of Leakage through Exterior Windows, Curtain Walls, and Doors.
B. ASTM E 84 – Surface Burning Characteristics of Building Materials.
C. ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
D. ASTM E283 – Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
E. ASTM E330 – Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
F. ASTM E331 – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
G. AAMA 508 – Voluntary Test Method and Specification for Pressure Equalized Rain Screen Wall Cladding Systems.
H. AAMA 509 – Voluntary Test and Classification Method for Drained and Back Ventilated Rain Screen Wall Cladding Systems.
I. AAMA 2605 – Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
J. ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
K. NAAMM Metal Finishes Manual for Architectural and Metal Products.
L. SMACNA Sheet Metal and Air Conditioning Contractors National Association.

1.4 ACTION SUBMITTALS

A. Product Data: Include manufacturer’s product specifications, standard details, certified product test results, and general recommendations, as applicable to materials and finishes for each component and for total panel assemblies.

B. Shop drawings shall show layout, elevations, profile and gauge of items, location and type of joints and fasteners; location, gauge, shape, and method of attachment of trim; and other details as may be required for wall system weathertight installation.

1. Shop drawings shall be prepared by metal panel manufacturer and signed and sealed by an Engineer registered in the State of Florida. Contractor prepared shop drawings are not acceptable.

C. Accessories: Include details of the flashing, trim, and anchorage systems, at a scale of not less than 3" = 1'-0" (1:5).

D. Submit manufacturer's complete standard color samples, as part of the submittal package.

1. Submit two samples, 12 inch square, of exposed finish material, all roof fastening accessories, of selected color.

E. Delegated-Design Submittal: Submit design calculations, analysis data and shop drawings indicating compliance with dedicated design requirements signed and sealed by the qualified Florida registered professional engineer responsible for their preparation.

F. Approvals: Manufacturer submit documentation that product complies with large and small missile impact criteria and have been tested and approved in compliance with Florida Product Approval or Miami Dade NOA and applicable requirements.

G. Recycle: Submit manufacturer's documentation substantiating the following requirements for materials for each type provided under work of this section for recycled content:

1. Indicate recycled content; indicate percentage of pre-consumer and post-consumer recycled content per unit of product.
2. Indicate relative dollar value of recycled content product to total dollar value of product included in project.
3. If recycled content product is part of an assembly, indicate the percentage of recycled content product in the assembly by weight.
4. If recycled content product is part of an assembly, indicate relative dollar value of recycled content product to total dollar value of assembly.

H. Local/Regional Materials: Submit manufacturer's documentation substantiating the following requirements for materials extracted/harvested and manufactured within a 500 mile radius from the project site. Not less than 20 percent of building materials (by cost) shall be regional materials. Unless otherwise indicated, submit the following for each type of product provided under work of this section for locations:

1. Sourcing Location(s): Indicate location of extraction, harvesting, and recovery; indicate distance between extraction, harvesting, and recovery and the project site.
2. Manufacturing Location(s): Indicate location of manufacturing facility; indicate distance between manufacturing facility and the project site.

3. Product Value: Indicate dollar value of product containing local/regional materials; include materials cost only.
4. Product Component(s): Where product components are sourced or manufactured in separate locations, provide location information for each component. Indicate the percentage by weight of each component per unit of product.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and Manufacturer.

B. Product Test Reports: For each product, for tests performed by a qualified testing agency.

C. Field quality-control reports.

D. Sample Warranties: For special warranties.

1.6 QUALITY ASSURANCE

A. Manufacturer's Qualifications: Provide products from a firm that makes the indicated products as a regular production item and with not less than ten (10) years experience.

B. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer for both installation of specified materials and assemblies with not less than five (5) years experience.

1.7 MOCKUPS

A. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.

B. Build mockup of typical metal panel assembly as shown on Drawings, including corner, supports, attachments, and accessories.

C. Water-Spray Test: Conduct water-spray test of metal panel assembly mockup, testing for water penetration according to AAMA 501.2.

D. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

E. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 PREINSTALLATION MEETINGS

A. The contractor shall conduct a pre-installation meeting at the project site a minimum of 30 days prior to any work being installed as indicated in this section and other related sections that require coordination with this section.

B. Meet with Owner, Architect, Owner's insurer if applicable, metal panel Installer, metal panel manufacturer's representative, structural-support Installer, and installers whose work interfaces with or affects metal panels, including installers of doors, windows, and louvers.

C. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.

D. Review methods and procedures related to metal panel installation, including manufacturer's written instructions.

C. Examine support conditions for compliance with requirements, including alignment between and attachment to structural members.

F. Review flashings, special siding details, wall penetrations, openings, and condition of other construction that affect metal panels.

G. Review governing regulations and requirements for insurance, certificates, and tests and inspections if applicable.

H. Review temporary protection requirements for metal panel assembly during and after installation.

I. Review of procedures for repair of metal panels damaged after installation.

J. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver panels to jobsite properly packaged to provide against transportation damage.

B. Handling: Exercise extreme care in unloading, storing, and erecting panels to prevent banding, warping, twisting, and surface damage.

C. Storage: Store materials and accessories above ground on well skidded platforms. Store under waterproof covering. Provide proper ventilation to panels to prevent condensation build-up between panels.

1.10 FIELD CONDITIONS

A. Field Measurements: Verify location of structural members and openings in substrates by field measurements before fabrication and indicate measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delaying work.

B. Coordinate metal panel installation with rain drainage work, flashing, trim, construction of ceilings, and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

1.11 WARRANTY

A. The Manufacturer shall furnish the following warranties for materials and finishes:

1. Exterior metal cladding system Manufacturer’s five (5) year warranty against defective materials and fabrication.
2. Exterior metal cladding system Manufacturer’s thirty (30) year warranty for performance of prefinished finishes. The finish warranty shall provide coverage for the following:
   a. Fade Resistance: For first exposure to UV or weathering, the post-painted material finishes shall exhibit no more than a 5 “delta E” rating for color change from original color standard.

b. Chalk Resistance: For first exposure to UV or weathering, the post-painted material finishes shall exhibit a chalk rating of 8 or less, in accordance with ASTM D4214, Method A.
c. Film Integrity: For first exposure to UV or weathering, the post-painted material finishes shall not chip, peel, crack, or blister as a result of defective coatings, improper preparation of the substrate, improper application of the coatings, or improper curing of the coating system.

B. Installer's three (3) year warranty covering wall panel system installation and watertightness.

C. Warranties shall commence on date of substantial completion.

1.12 PERFORMANCE

A. General Performance: Metal wall panel assemblies shall be furnished and installed without failure due to defective manufacture, fabrication, installation, or other defects in construction.

B. Thermal Expansion and Contraction.

1. Completed metal wall panel and flashing system shall be capable of withstanding expansion and contraction of components caused by changes in temperature without buckling, or reducing performance ability.
2. The design temperature differential shall be not less than 220 degrees Fahrenheit.
3. Interface between panel and clip shall provide for unlimited thermal movement in each direction along the longitudinal direction.

C. Wind Load

1. Panels shall be designed to withstand the Design Wind Load based upon the local building code, but in no case less than 20 lb/ft^2 (959 N/m^2) and 30 lb/ft^2 (1438 N/m^2) on parapet and corner panels. Wind load testing shall be conducted in accordance with ASTM E 330 to obtain the following results.
2. Normal to the plane of the wall between supports, deflection of the secured perimeter-framing members shall not exceed L/175 or 3/4", whichever is less.
3. Normal to the plane of the wall, the maximum panel deflection shall not exceed L/60 of the full span.
4. Maximum anchor deflection shall not exceed 1/16".
5. At 1-1/2 times design pressure, permanent deflections of framing members shall not exceed L/100 of span length and components shall not experience failure or gross permanent distortion. At connection points of framing members to anchors, permanent set shall not exceed 1/16".

D. Air/Water System Test

1. If system tests are not available, mock-ups shall be constructed and tests performed under the direction of an independent third party laboratory, which show compliance to the following minimum standards:
2. Air Infiltration - When tested in accordance with ASTM E 283, air infiltration at 1.57 lb/ft^2 must not exceed 0.06 ft^3/min. per ft^2 of wall area (305 cm^3/s per m^2 of wall area).

3. Water Infiltration - Water infiltration is defined as uncontrolled water leakage through the exterior face of the assembly. Systems not using a construction sealant at the panel joints (i.e. Rout and Return Dry and Rear Ventilated Systems) shall be designed to drain any water leakage occurring at the joints. No water infiltration shall occur in any system under a differential static pressure of 6.24 lb/ft^2 after 15 minutes of exposure in accordance with ASTM E 331.
4. Pressure Equalized Rain Screen Systems shall comply with AAMA 508-05 Voluntary Test Method and Specification for Pressure Equalized Rain Screen Wall Cladding Systems.

E. Fire Performance: Panels shall meet maximum flame spread 25, maximum smoke developed 450.

F. Delegated-Design: Provide delegated design services including calculations and shop drawings for load bearing items to comply with performance requirements, applicable code requirements and design criteria signed and sealed by an engineer registered in the State of Florida.

G. Approvals: Manufacturer shall certify that product complies with large and small missile impact criteria and has been tested and approved in compliance with Florida Product Approval or Miami Dade NOA and applicable requirements.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturer and basis of design shall be the following however products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and functional qualities of the specified product and acceptance is provided by the architect in writing prior to bidding.

1. 3A Composites USA, Inc.

B. The following manufacturers are acceptable provided they equal or exceed the material requirements and functional qualities of the basis of design product.

1. Peterson Aluminum
2. MBCI Building Systems Co.

2.2 METAL WALL PANELS **(ACM)**

A. Basis of Design: “ALUCOBOND Plus”

1. Florida Product Approval: #FL-26505.4

B. Panel: Composite comprised of two (2) aluminum face sheets bonded with fire core.

C. Thickness: 0.157"

1. Exterior and Interior Face Sheets: Aluminum AA3000 Series Alloy 0.020" nominal thickness
2. Core: Proprietary fire-resistant core 0.117" nominal thickness

D. Panel Size: See drawings.

E. Panel Weight: 1.58 lb/ft^2

F. Texture: Smooth, verify with Architect.

G. Mounting: Manufacturer's extruded interlocking clips.

H. Panel Stiffener: Manufacturer's extruded stiffener clip system.

2.3 SYSTEM TYPE

A. Metal Wall, Fascia and Ceiling System

1. Rout and Return Wet: System shall provide a wet seal (caulked) reveal joint. The sealant type shall be as specified in specification section "Joint Sealant" and with foamed type backer rod as indicated on architectural drawings.

2.4 METAL SUBFRAMING

A. Miscellaneous Metal Framing, General: ASTM C 645, cold-formed metallic-coated steel sheet, ASTM A 653, G90 (Z275) hot-dip galvanized

B. Channel-shaped Strut:

1. Dimensions:
   a. Nominal Thickness: 0.054-inch (16-gauge) nominal thickness.
   b. Depth: 1-1/2 inches nominal.
   c. Front Flange: 1-13/16 inches nominal, with 1-1/2 inches diameter holes punched at 8" on center.
   d. Rear Flange: 4 inches nominal with 1/4 inch holes punched at 8" on center and aligned with holes in the front flange.
2. Fasteners for Metal Sub-framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten miscellaneous metal sub-framing members through insulation and sheathing boards into structural wall framing or substrates.

2.5 CONCEALED ANCHORAGE CLIP

A. General: Provide factory-formed metal wall panels designed to be field assembled by interlocking seams and incorporating concealed fasteners.

B. Concealed clip, longitudinal lap-seam panel with labyrinth-joint and reveal on four sides.

1. Material: Zinc sheet, 16-gauge and as per approval.
   a. Fabrication: Panels shall be factory formed from specified metal.
   b. The standard profile shall be flat pans with reveal joints on all four sides.
   c. Panel orientation: Vertical.
      1) Horizontal reveal joints as indicated by Architect.
      2) Vertical reveal joints as indicated by Architect.
   d. End Folds: Panel ends shall be factory notched by automatic mechanical press equipment to form end tabs of 5/8 inch nominal length. The end tabs shall be factory folded 90 degrees to produce a "box pan" effect and allow for reveal joints on all four sides of the panel.

2.6 MISCELLANEOUS MATERIALS

A. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.

1. Closures: Provide closures at eaves and rakes, fabricated of same metal as metal panels.
2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.

B. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, bases, drips, sills, jambs, corners, endwalls, framed openings, rakes, fasciae, parapet caps, soffits, ceilings, reveals, and fillers. Finish flashing and trim with same finish system as adjacent metal panels.

C. Panel Fasteners: Self-tapping screws designed to withstand design loads. Provide exposed fasteners with heads matching color of metal panels by means of factory-applied coating. Provide EPDM or PVC sealing washers for exposed fasteners.

D. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.

1. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch wide and 1/8 inch thick.
2. Joint Sealant: ASTM C 920; elastomeric polyurethane or silicone sealant; of type, grade, class, and use classifications required to seal joints in metal panels and remain weathertight; and as recommended in writing by metal panel manufacturer.
3. Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C 1311.

2.7 ACCESSORIES

A. Extrusions, formed members, sheet, and plate shall conform with ASTM B 209 and the recommendations of the manufacturer.

B. Panel stiffeners, if required, shall be structurally fastened or restrained at the ends and shall be secured to the rear face of the composite panel with silicone of sufficient size and strength to maintain panel flatness. Stiffener material and/or finish shall be compatible with the silicone.

C. Sealants and gaskets within the panel system shall be as per manufacturer's standards to meet performance requirements.

D. Fabricate flashing materials from 0.030" minimum thickness aluminum sheet painted to match the adjacent curtain wall / panel system where exposed. Provide a lap strap under the flashing at abutted conditions and seal lapped surfaces with a full bed of non-hardening sealant.

E. Fasteners (concealed/exposed/non-corrosive): Fasteners as recommended by panel manufacturer. Do not expose fasteners except where unavoidable and then match finish of adjoining metal.

2.8 FABRICATION

A. Composition: Two (2) sheets of aluminum sandwiching a solid core of extruded thermoplastic material formed in a continuous process with no glues or adhesives between dissimilar materials. the core material shall be free of voids and/or air spaces and not contain foamed insulation material. products laminated sheet by sheet in a batch process using glues or adhesives between materials shall not be acceptable.

B. General: Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.

C. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.

D. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.

1. Form exposed sheet metal accessories that are without excessive oil canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.
2. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.
3. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal recommended in writing by metal panel manufacturer.
    a. Size: As recommended by SMACNA's "Architectural Sheet Metal Manual" or metal wall panel manufacturer for application but not less than thickness of metal being secured.

E. Tolerances

1. Panel Bow: Maximum 0.8% of any 1828mm (72”) panel dimension.
2. Panel Dimensions: Field fabrication shall be allowed where necessary, but shall be kept to an absolute minimum. All fabrication shall be done under controlled shop conditions when possible.
3. Panel lines, breaks, and angles shall be sharp, true, and surfaces free from warp and buckle.
4. Maximum deviation from panel flatness shall be 1/8" in 5'0" on panel in any direction for assembled units. (Non-accumulative - No Oil Canning)

F. System must not generally have any visible fasteners, telegraphing or fastening on the panel faces or any other compromise of a neat and flat appearance.

G. Fabricate panel system so that no restraints can be placed on the panel, which might result in compressive skin stresses. The installation detailing shall be such that the panels remain flat regardless of temperature change and at all times remain air and water tight.

H. The finish side of the panel shall have a removable plastic masking applied prior to fabrication, which shall remain on the panel during fabrication, shipping, and erection to protect the surface from damage.

2.9 FINISH

A. Aluminum Surfaces: Sections shall be free of scratches and other serious surface blemishes and chemically cleaned.

B. High-Performance Organic Finish: 3-coat fluoropolymer finish complying with AAMA 2605 and containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

1. Color and Gloss: As selected by Architect from manufacturer's full metallic range of colors.

2.10 ENVIRONMENTAL

A. Recycled Content: Provide products with an average recycled content of metal products so 100% of postconsumer recycled content plus 50% of preconsumer recycled content is not less than 20 percent.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of the Work.

1. Examine wall framing to verify that girts, angles, channels, studs, and other structural panel support members and anchorage have been installed within alignment tolerances required by metal wall panel manufacturer.
2. Examine wall sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal wall panel manufacturer.
   a. Verify that air- or water-resistive barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.

B. Examine roughing-in for components and systems penetrating metal panels to verify actual locations of penetrations relative to seam locations of metal panels before installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Miscellaneous Supports: Install sub-framing, furring, and other miscellaneous panel support members and anchorages according to ASTM C 754 and metal panel manufacturer's written recommendations.

3.3 METAL PANEL INSTALLATION

A. Install panels in accordance with manufacturer's specifications over entire wall area.

B. Erect panels plumb, level, and true.

C. Attachment system shall allow for the free and noiseless vertical and horizontal thermal movement due to expansion and contraction for a material temperature range of -20°F to +180°F (-29°C to +82°C). Buckling of panels, opening of joints, undue stress on fasteners, failure of sealants or any other detrimental effects due to thermal movement will not be permitted.

D. Fabrication, assembly, and erection procedure shall account for the ambient temperature at the time of the respective operation.

E. Anchor panels securely per engineering recommendations and in accordance with approved shop drawings to allow for necessary thermal movement and structural support.

F. Conform to panel fabricator's instructions for installation of concealed fasteners.

G. Do not install component parts that are observed to be defective, including warped, bowed, dented, abraised, and broken members.

H. Do not cut, trim, weld, or braze component parts during erection in a manner which would damage the finish, decrease strength, or result in visual imperfection or a failure in performance. Return component parts which require alteration to shop for refabrication, if possible, or for replacement with new parts.

I. Separate dissimilar metals and use gasketed fasteners where needed to eliminate the possibility of corrosive or electrolytic action between metals.

J. Erection of the panels system shall be performed in accordance with the manufacturer's erection drawings.

K. Install self-threading screws of a size and length as recommended by manufacturer. Shim clips as required to provide a level installation with non-deteriorating shims.

L. Make repairs and perform additional work necessary to provide a watertight condition acceptable to the Architect.

M. Panel attachments shall be designed to accommodate the thermal expansion and contraction of the exterior material through a total of 100 degrees F. temperature change.

3.4 WASTE MANAGEMENT

A. Collect cutoffs and scrap and place in designated areas for recycling.

B. Coordinate with manufacturer and local recycler for take-back program or recycling. Set aside scrap to be returned to manufacturer for recycling into new product.

END OF SECTION 07 42 15

SECTION 09 51 23 – ACOUSTICAL TILE CEILINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. The provisions of the General Conditions, Supplementary Conditions, Drawings, Specifications and the Sections included under Division 1, General Requirements and References are included as a part of this Section as though bound herein.

1.2 SUMMARY

A. Section Includes:

1. Provide labor, material, services and equipment necessary to furnish and install work as indicated and as specified herein, which includes, but is not limited to:
   a. Acoustical tiles for ceilings.
   b. Suspension systems.

1.3 REFERENCES

A. ASTM C423 – Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
B. ASTM C635 – Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-In Panel Ceilings.
C. ASTM C636 – Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels.
D. ASTM C641-09 – Specification for Steel Sheet, Zinc-Coated (galvanized) Carbon Steel Wire.
E. ASTM D3273 – Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
F. ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
G. ASTM E90 – Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
H. ASTM E 119 – Standard Test Methods for Fire Tests of Building Construction and Materials.
I. ASTM E795 – Standard Practice for Mounting Test Specimens During Sound Absorption Tests.
J. ASTM E1264 – Standard Classification for Acoustical Ceiling Products.
K. ASTM E1414 – Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum.
L. ASTM E1477 – Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating Sphere Reflectometer.
M. Ceilings and Interior Systems Contractors Association (CISCA) – Acoustical Ceilings: Use and Practice.
N. UL – Fire Resistance Directory.
O. FBC – Florida Building Code.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples:

1. Acoustical Tiles: Set of full-size Samples of each type, color, pattern, and texture.
2. Suspension-System Members: 6-inch long Sample of each type.
3. Moldings and Trim: Set of 6-inch long Samples of each type and color.

C. Recycle: Submit manufacturer's documentation substantiating the following requirements for materials for each type provided under work of this section for recycled content:

1. Indicate recycled content; indicate percentage of pre-consumer and post-consumer recycled content per unit of product.
2. Indicate relative dollar value of recycled content product to total dollar value of product included in project.
3. If recycled content product is part of an assembly, indicate the percentage of recycled content product in the assembly by weight.
4. If recycled content product is part of an assembly, indicate relative dollar value of recycled content product to total dollar value of assembly.

D. Local/Regional Materials: Submit manufacturer's documentation substantiating the following requirements for materials extracted/harvested and manufactured within a 500 mile radius from the project site. Not less than 20 percent of building materials (by cost) shall be regional materials. Unless otherwise indicated, submit the following for each type of product provided under work of this section for locations:

1. Sourcing Location(s): Indicate location of extraction, harvesting, and recovery; indicate distance between extraction, harvesting, and recovery and the project site.
2. Manufacturing Location(s): Indicate location of manufacturing facility; indicate distance between manufacturing facility and the project site.
3. Product Value: Indicate dollar value of product containing local/regional materials; include materials cost only.
4. Product Component(s): Where product components are sourced or manufactured in separate locations, provide location information for each component. Indicate the percentage by weight of each component per unit of product.

1.5 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:

1. Ceiling suspension-system members.
2. Method of attaching hangers to building structure.
   a. Furnish layouts for cast-in-place anchors, clips, and other ceiling attachment devices whose installation is specified in other Sections.
3. Carrying channels or other supplemental support for hanger-wire attachment where conditions do not permit installation of hanger wires at required spacing.
4. Size and location of initial access modules for acoustical tile.
5. Ceiling-mounted items and items penetrating the ceiling including lighting fixtures, diffusers, grilles, speakers, sprinklers, access panels, and special moldings.
6. Minimum Drawing Scale: 1/8 inch = 1 foot.

B. Product Test Reports: For each acoustical tile ceiling, for tests performed by a qualified testing agency.

C. Evaluation Reports: For each acoustical tile ceiling suspension system and anchor and fastener type, from ICC-ES.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Employ only licensed Sub-Contractors skilled in successful installations of the specified products on comparable projects for a minimum of five (5) years.

B. Manufacturer's Qualifications: Employ only manufacturers making the specified products as a regular and current production item.

C. Single-Source Responsibility for Ceiling and suspension Units: Obtain each type of acoustical ceiling unit and suspension system from a single source with resources to provide products of consistent quality in appearance and physical properties without delaying progress of the Work.

1.7 PRE-INSTALLATION MEETING

A. The contractor shall conduct a pre-installation meeting at the project site a minimum of 30 days prior to any work being installed as indicated in this section and other related sections that require coordination with this section.

1.8 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Acoustical Ceiling Units: Full-size tiles equal to 2 percent of quantity installed, minimum two full boxes.
2. Suspension-System Components: Quantity of each concealed grid and exposed component equal to 2 percent of quantity installed.
3. This stock shall be designated for use by Owner only, after completion of the Project and shall not be used for repair or replacement during the one-year warranty period.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Deliver acoustical tiles, suspension-system components, and accessories to Project site in original, unopened packages and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.

B. Handle acoustical tiles carefully to avoid chipping edges or damaging units in any way.

1.10 FIELD CONDITIONS

A. Environmental Limitations: Do not install acoustical tile ceilings until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

1. Pressurized Plenums: Operate ventilation system for not less than 48 hours before beginning acoustical tile ceiling installation.

B. Coordination of Work: Coordinate layout and installation of acoustical ceiling units and suspension system components with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system components, and partition system.

1.11 WARRANTY

A. Manufacturer's Warranty: Provide manufacturer's warranty that the ceiling panels and suspension systems shall be free from sagging or warping for indicated warranty.

1. Warranty Period: Not less than ten (10) years from the Date of Substantial Completion.

1.12 PERFORMANCE

A. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

1. Flame-Spread Index: Class A according to ASTM E 1264.
2. Smoke-Developed Index: 50 or less.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Manufacturer shall be as indicated however products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and functional qualities of the specified product and acceptance is provided by the Architect in writing prior to bidding.

1. Armstrong World Industries
2. Manufacturers as indicated
3. CertainTeed Corporation
4. USG Interiors, Inc.
5. Gold Bond – National Gypsum
6. Rockfon

2.2 ACOUSTICAL TILES, GENERAL

A. Acoustical Tile Standard: Provide manufacturer's standard tiles of configuration indicated that comply with ASTM E 1264 classifications as designated by types, patterns, acoustical ratings, and light reflectances unless otherwise indicated.

1. Where appearance characteristics of acoustical tiles are indicated by referencing pattern designations in ASTM E 1264 and not manufacturers' proprietary product designations, provide products selected by Architect from each manufacturer's full range that comply with requirements indicated for type, pattern, color, light reflectance, acoustical performance, edge detail, and size.

B. Antimicrobial Treatment: Manufacturer's standard broad spectrum, antimicrobial formulation that inhibits fungus, mold, mildew, and gram-positive and gram-negative bacteria and showing no mold, mildew, or bacterial growth when tested according to ASTM D 3273, ASTM D 3274, or ASTM G 21 and evaluated according to ASTM D 3274 or ASTM G 21.

C. Mounting Method for Measuring NRC: Type E 400 (plenum mounting in which face of test specimen is 15-3/4" away from the test surface) per ASTM E 795-05(12).

2.3 ACOUSTICAL TILES

A. ACT-1:

1. Basis of Design: "~~Pacific #SL260~~" **"Sonar"** as manufactured by Rockfon
2. Edge: Tegular
3. Size: ~~24" x 24" x 1/2"~~ **24" x 24" x 1"**
4. NRC: ~~0.60~~ **0.95**
5. Color: White

B. ACT-2:

1. Basis of Design: "~~Tropic #SL1060~~" **"Cinema Black"** as manufactured by Rockfon
2. Edge: ~~Tegular~~ **Square**
3. Size: 24" x 24" x ~~5/8"~~ **1"**
4. NRC: ~~0.85~~ **0.95**
5. Color: ~~White~~ **Black**

~~C. ACT-3:~~

~~1. Basis of Design: "School Zone Fine Fissured #1820" as manufactured by Armstrong World Industries~~
~~2. Edge: Tegular~~
~~3. Size 24" x 24" x 3/4"~~
~~4. NRC: 0.70~~
~~5. Color: White~~

2.4 METAL SUSPENSION SYSTEMS

A. Basis of Design: "Prelude XL 15/16" Steel" as manufactured by Armstrong World Industries

B. Metal Suspension-System Standard: Provide manufacturer's standard metal suspension systems of types, structural classifications, and finishes indicated that comply with applicable requirements in ASTM C 635/C 635M.

1. Electrogalvanized in all spaces unless indicated otherwise.
2. Hot-dipped galvanized shall be used in the food service related areas.

C. High-Humidity Finish: Provide coating tested and classified for "severe environment performance" according to ASTM C 635/C 635M in food service, damp and potentially wet spaces.

1. Provide aluminum cap in food preparations areas and associated spaces.
2. Provide aluminum cap in spaces that may experience damp or wet conditions.

D. Structural Classification: Intermediate Duty System.

E. End Condition of Cross Runners: Override (stepped) or butt-edge type, as standard with manufacturer.

F. Color:

1. White at ACT-1
2. Black at ACT-2

2.5 METAL EDGE MOLDINGS AND TRIM

A. Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations complying with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for of suspension-system runners.

B. For circular penetrations of ceiling, provide edge moldings fabricated to diameter required to fit penetration exactly.

C. Provide manufacturer's standard edge moldings that fit acoustical tile edge details and suspension systems indicated and that match width and configuration of exposed runners unless otherwise indicated.

D. Ceiling Edge Trim: Provide “Straight Axiom Classic Trim” as manufactured by Armstrong World Industries.

1. Provide outside and inside corner trim, splice plates, clips and miscellaneous items for a complete installation.
2. Size: 7-13/16" and 14" and as indicated on the drawings.
3. Color: As selected by the Architect.

2.6 ACCESSORIES

A. Attachment Devices: Size for five times the design load indicated in ASTM C 635/C 635M, Table 1, "Direct Hung," unless otherwise indicated. Comply with seismic design requirements.

1. Anchors in Concrete: Anchors of type and material indicated below, with holes or loops for attaching hangers of type indicated and with capability to sustain, without failure, a load equal to five times that imposed by ceiling construction, as determined by testing according to ASTM E 488/E 488M or ASTM E 1512 as applicable, conducted by a qualified testing and inspecting agency.
   a. Type: Post-installed expansion anchors.
   b. Corrosion Protection: Carbon-steel components zinc plated according to ASTM B 633, Class SC 1 (mild) service condition.
2. Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hangers of type indicated, and with capability to sustain, without failure, a load equal to 10 times that imposed by ceiling construction, as determined by testing according to ASTM E 1190, conducted by a qualified testing and inspecting agency.

B. Wire Hangers, Braces, and Ties: Provide wires as follows:

1. Zinc-Coated, Carbon-Steel Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper.
2. Size: Wire diameter sufficient for its stress at three times hanger design load (ASTM C 635/C 635M, Table 1, "Direct Hung") will be less than yield stress of wire, but not less than 0.106 inch diameter wire.

C. Hanger Rods: Mild steel, zinc coated or protected with rust-inhibitive paint.

D. Flat Hangers: Mild steel, zinc coated or protected with rust-inhibitive paint.

E. Angle Hangers: Angles with legs not less than 7/8 inch wide; formed with 0.04-inch thick, galvanized-steel sheet complying with ASTM A 653/A 653M, G90 coating designation; with bolted connections and 5/16-inch diameter bolts.

2.7 ACOUSTICAL SEALANT

A. Acoustical Sealant: Manufacturer's standard sealant complying with ASTM C 834 and effective in reducing airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90. Exposed and concealed joints nonsag, paintable, nonstaining latex sealant.

2.8 ENVIRONMENTAL

A. Recycled Content: Provide acoustical panels with recycled content such that postconsumer recycled content plus one-half of preconsumer recycled content constitutes a minimum of 20 percent by weight.

B. Adhesives: For adhesives, sealants and chemical-bonding compounds, including printed statement of VOC content.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, including structural framing and substrates to which acoustical tile ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Examine acoustical tiles before installation. Reject acoustical tiles that are wet, moisture damaged, or mold damaged.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Measure each ceiling area and establish layout of acoustical tiles to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width tiles at borders, and comply with layout shown on reflected ceiling plans.

B. Layout openings for penetrations centered on the penetrating items.

3.3 INSTALLATION OF SUSPENDED ACOUSTICAL TILE CEILINGS

A. General: Install acoustical panel ceilings to comply with ASTM C 636/C 636M and seismic design requirements indicated, according to manufacturer's written instructions and CISCA's "Ceiling Systems Handbook."

1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.
2. Splay hangers only where required and no more than 20 degrees to miss obstructions; offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
3. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension-system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices.
4. Secure wire hangers to ceiling suspension members and to supports above with a minimum of three tight turns. Connect hangers directly to structure or to inserts, eye screws, or other devices that are secure and appropriate for substrate and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.
5. Secure flat, angle, channel, and rod hangers to structure, including intermediate framing members, by attaching to inserts, eye screws, or other devices that are secure and appropriate for both the structure to which hangers are attached and the type of hanger involved. Install hangers in a manner that will not cause them to deteriorate or fail due to age, corrosion, or elevated temperatures.
6. Do not support ceilings directly from permanent metal forms or floor deck. Fasten hangers to cast-in-place hanger inserts, post-installed mechanical or adhesive anchors, or power-actuated fasteners that extend through forms into concrete.

7. When steel framing does not permit installation of hanger wires at spacing required, install carrying channels or other supplemental support for attachment of hanger wires.
8. Do not attach hangers to steel deck tabs.
9. Do not attach hangers to steel roof deck. Attach hangers to structural members.
10. Do not place hanger wires thru cable trays or attach to cable trays and conduits or other similar items.
11. Space hangers not more than 48 inches o.c. along each member supported directly from hangers unless otherwise indicated; provide hangers not more than 8 inches from ends of each member.
12. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards and publications.
13. Secure wire hangers to the four corners of all light fixtures.

B. Secure bracing wires to ceiling suspension members and to supports with a minimum of four tight turns. Suspend bracing from building's structural members as required for hangers without attaching to permanent metal forms, steel deck, or steel deck tabs. Fasten bracing wires into concrete with cast-in-place or post-installed anchors.

C. Install edge moldings and trim of type indicated at perimeter of acoustical tile ceiling area and where necessary to conceal edges of acoustical tiles.

1. Apply acoustical sealant in a continuous ribbon concealed on back of vertical legs of moldings before they are installed.
2. Screw attach moldings to substrate at intervals not more than 16 inches o.c. and not more than 3 inches from ends, leveling with ceiling suspension system to a tolerance of 1/8 inch in 12 feet. Miter corners accurately and connect securely.
3. Do not use exposed fasteners, including pop rivets, on moldings and trim.
4. All seams to be tight and flush.

D. Install suspension-system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.

E. Arrange directionally patterned acoustical tiles as follows:

1. Install tiles in a basket-weave pattern – verify with Architect.

F. Install acoustical tiles in coordination with suspension system and exposed moldings and trim. Place splines or suspension-system flanges into kerfed edges so tile-to-tile joints are closed by double lap of material.

1. Fit adjoining tile to form flush, tight joints. Scribe and cut tile for accurate fit at borders and around penetrations through tile.

3.4 ERECTION TOLERANCES

A. Suspended Ceilings: Install main and cross runners level to a tolerance of 1/8 inch in 12 feet, non-cumulative.

B. Moldings and Trim: Install moldings and trim to substrate and level with ceiling suspension system to a tolerance of 1/8 inch in 12 feet, non-cumulative.

3.5 FIELD QUALITY CONTROL

A. Perform the following tests and inspections of completed installations of acoustical tile ceiling hangers and anchors and fasteners in successive stages and when installation of ceiling suspension systems on each floor has reached 20 percent completion but no tiles have been installed. Do not proceed with installations of acoustical tile ceiling hangers for the next area until test results for previously completed installations of acoustical tile ceiling hangers show compliance with requirements.

1. Within each test area, testing agency will select one of every 10 power-actuated fasteners and post-installed anchors used to attach hangers to concrete and will test them for 200 lbf of tension; it will also select one of every two post-installed anchors used to attach bracing wires to concrete and will test them for 440 lbf of tension.
2. When testing discovers fasteners and anchors that do not comply with requirements, testing agency will test those anchors not previously tested until 20 pass consecutively and then will resume initial testing frequency.

B. Acoustical tile ceiling hangers and anchors and fasteners will be considered defective if they do not pass tests and inspections.

C. Prepare test and inspection reports.

3.6 WASTE MANAGEMENT

A. Collect cutoffs and scrap and place in designated areas for recycling.

B. Coordinate with manufacturer and local recycler for take-back program or recycling. Set aside scrap to be returned to manufacturer for recycling into new product.

END OF SECTION 09 51 23

SECTION 10 51 23 – HDPE LOCKERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. The provisions of the General Conditions, Supplementary Conditions, Drawings, Specifications and the Sections included under Division 1, General Requirements and References are included as a part of this Section as though bound herein.

1.2 SUMMARY

A. Section Includes:

1. Provide labor, material, services and equipment necessary to furnish and install work as indicated and as specified herein, which includes, but is not limited to:
   a. HDPE lockers.

1.3 REFERENCES

A. Florida Building Code, Chapter 11 – Florida Accessibility Code for Building Construction.
B. ANSI A117.1 – Safety Standards for the Handicapped.
C. ASTM A167 – Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
D. ASTM B86 – Standard Specification for Zinc and Zinc-Aluminum (ZA) Alloy Foundry and Die Castings.
E. ASTM B221 – Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
F. ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
G. NFPA – 101 Life Safety Code.
H. NFPA 286 – Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.
I. FBC – Florida Building Code.
J. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities" for toilet compartments designated as accessible.

1.4 ACTION SUBMITTALS

A. Shop Drawings: Submit shop drawings before fabrication.

1. Shop drawings shall indicate type of material, gauges of metal, reinforcement, filler, finishing strips, and other details of construction. They shall show methods and details of attachment, layout of the lockers, and devices to be furnished by others.
2. When a numbering system is indicated, shop drawings shall identify the locations where each series is to be installed.

B. Samples: Submit for Architect's selection samples of manufacturer's full color line, including standard and optional colors.

C. Colors: As selected by Architect from manufacturer's full available range.

D. Warranty: Submit warranty as specified herein.

1.5 PRODUCT HANDLING

A. General: All work shall be fabricated in ample time so as to not delay construction process.

B. Delivery: All materials shall be delivered to the site at such a time as required for proper coordination of the work. Materials are to be received in the manufacturer's original, unopened packages and shall bear the manufacturer's label.

C. Storage: Store all materials in a dry and well-ventilated place adequately protected from the elements.

1.6 QUALTIY ASSURANCE

A. Installer Qualifications: when used with an entity, "experienced" means having successfully completed a minimum of 5 projects similar in size and scope to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

C. Pre-installation Conference:

1. Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination".
2. Installer shall review sequences of locker type delivery and installation and be familiar with all locker features and accessories.

1.7 WARRANTY

A. Manufacturer's Warranty: Provide manufacturer's written warranty that lockers are and will remain free of defects in material and workmanship for indicated warranty period.

1. Warranty Period: Not less than twenty-five (25) years from Date of Substantial Completion.

PART 2 - PRODUCTS

2.1 ~~ACCEPTABLE~~ MANUFACTURERS

A. ~~Manufacturer and basis of design shall be the following however products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and~~

~~functional qualities of the specified product and acceptance is provided by the Architect in writing prior to bidding.~~ **Manufacturer and basis of design shall be the following however products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and functional qualities of the specified product and acceptance is provided by the Architect in writing prior to bidding.**

1. Scranton Products

B. The following manufacturers are acceptable provided they equal or exceed the material requirements and functional qualities of the basis of design product.

1. General Partitions
2. Summit Lockers

2.2 GENERAL LOCKER

A. A portion of Lockers shall be single tier, ADA compliant with recessed handles as indicated on drawings.

2.3 MATERIALS

A. High impact, high density polyethylene (HDPE) formed under high pressure into solid plastic components with homogeneous color throughout, with smooth orange peel finish.

1. Edges machined to accept assembly brackets.
2. Waterproof and nonabsorbent, with self-lubricating surface, resistant to marks by pens, pencils, markers, and other writing instruments.
3. Recycled content: Minimum 25 percent.
4. Color to be selected from manufacturer's full color range.

2.4 COMPONENTS – LOCKERS

A. Locker Doors and Frames: 1/2 inch thick.

B. Sides, Tops, Bottoms, Backs, and Shelves: 3/8 inch thick.

C. Latch: Continuous type, manufactured from HDPE, capable of accepting various locking mechanisms, fastened to entire length of door.

D. Door Hinge: Heavy duty extruded aluminum, full length, assembled onto door and locker front.

E. Assembly Profile: Full height of lockers, PVC plastic, snap fit assembled onto locker sides.

F. Coat Hooks: Two-prong, high impact plastic, mounted to bottom of shelf or divider, one per door opening.

G. Ventilation

1. Horizontal ventilation: Provide ventilation in door face equal.

F. Finished Locker Top:

1. Sloped top: 1/2" solid HDPE top color matched with lockers and installed at a 20° rise from front to back, using an extruded aluminum channel across the front.

G. Coat Rod: Stainless steel coat rod installed in locker openings.

H. Locker Base: 4" high locker 1/2" solid phenolic base with color matched to lockers.

2.5 FABRICATION

A. Fabricate locker components square and rigid, finish free from scratches and chips.

B. Fabricate locker components for snap-together assembly or slide-together dovetail connections providing solid and secure, anti-racking construction.

C. Fabricate adjacent lockers with common side panel.

D. Fabricate locker units for assembly in maximum of three adjacent lockers.

E. Fabricate locker benches to sizes indicated in single lengths.

PART 3 – EXECUTION

3.1 INSTALLATION

A. The installer for the Work under this section shall install the lockers in strict accordance with the manufacturer's specifications, instructions, and recommendation.

1. This shall include the proper assembly of lockers and their installation in accurate position and alignment. Screws and other assembly devices shall be properly installed and tightly drawn.
2. Install end panels and filler plates to complete each section of the assembly.
3. Install finishing strips required to bring the completed assembly into proper finished condition, as called for on the Drawings.

B. Lockers shall be securely attached to the wall, to the base, and to each other. Lockers shall be leveled with cedar shims, where necessary, to provide for irregularities in the base.

C. Lockers shall be protected against scratches and damage until Date of Substantial Completion.

D. All finishes shall be touched up with factory supplied paint in matching colors.

E. Provide all items and accessories as required for a complete installation in every respect.

END OF SECTION 10 51 23

SECTION 32 93 00 – PLANTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Plants (trees, shrubs, groundcover, etc.).

1.2 SCOPE OF WORK

A. The scope of work includes all labor, materials, appliances, tools, equipment, facilities, transportation and services necessary for, and incidental to performing all operations in connection with furnishing, delivery, and installation of plant (also known as "landscaping") complete as shown on the drawings and as specified herein.

B. The scope of work in this section includes, but is not limited to, the following:

1. Locate, purchase, deliver and install all specified plants, **weed control barriers, erosion control mesh, and edging materials.**
2. Water all specified plants.
3. Mulch, fertilize, stake, and prune all specified plants.
4. Maintain all specified plants until the end of the maintenance period.
5. Clean up and disposal of all excess and surplus material.
6. Perform corrective work and/or replace plants per the warranty during the warranty period.

1.3 CONTRACTOR RESPONSIBILITIES

A. Provide all equipment, materials and labor necessary for completion of work.

B. Obtain all necessary permits, licenses and fees necessary for completion of the work. Comply with all applicable codes.

C. Provide safe storage for all equipment and materials. Keep pavements clean and work area in an orderly condition.

D. Conduct a pre-installation conference on the Project Site.

1. Prior to the start of work, prepare a detailed schedule of the work for coordination with other trades.
2. Relative positions of all plants and trees are subject to approval of the Owner's Representative. See Part 3 Execution for more information.

E. Coordinate all work around underground utilities with Owner and General Contractor to avoid conflict with other portions of the work on this project. Determine location of underground utilities before excavating; hand excavate where required to avoid damage

to utilities. Contact utility locating services at least 72 hours before excavation. The utility location service for most utilities is the Florida Utility Locating Service at 800-432-4770.

F. Repair, at no cost to the Owner, any damage occurring on the property, adjacent properties, or right-of-way by his work or his employees.

G. Carry all necessary insurance as specified in the General Conditions.

H. Make all necessary adjustments to establish healthy, vigorous plants. Fine grading for an even final appearance is critical.

1.4 VERIFICATION

A. All scaled dimensions on the drawings are approximate. Before proceeding with any work, the Contractor shall carefully check and verify all dimensions and quantities, and shall immediately inform the Owner's Representative of any discrepancies between the information on the drawings and the actual conditions, refraining from doing any work in said areas until given approval to do so by the Owner's Representative.

B. In the case of a discrepancy in the plant quantities between the plan drawings and the plant call outs, list or plant schedule, the number of plants or square footage of the planting bed actually drawn on the plan drawings shall be deemed correct and prevail.

1.5 RELATED DOCUMENTS AND REFERENCES

A. Related Documents:

1. Drawings and general provisions of contract including general and supplementary conditions and Division I specifications apply to work of this section.
2. Related Specification Sections
   a. Section 32 92 00 – Turf and Grasses
   b. Section 32 84 00 – Planting Irrigation

B. References: The following specifications and standards of the organizations and documents listed in this paragraph form a part of the specification to the extent required by the references thereto. In the event that the requirements of the following referenced standards and specification conflict with this specification section the requirements of this specification shall prevail. In the event that the requirements of any of the following referenced standards and specifications conflict with each other the more stringent requirement shall prevail or as determined by the Owners Representative.

1. ANSI Z60.1 American Standard for Nursery Stock, most current edition.
2. ANSI A 300 – Standard Practices for Tree, Shrub and other Woody Plant Maintenance, most current edition and parts.
3. Florida Grades and Standards for Nursery Stock, current edition (Florida Department of Agriculture, Tallahassee FL).
4. Interpretation of plant names and descriptions shall reference the following documents. Where the names or plant descriptions disagree between the several documents, the most current document shall prevail.

a. USDA - The Germplasm Resources Information Network (GRIN) http://www.ars-grin.gov/npgs/searchgrin.html
b. Manual of Woody Landscape Plants; Michael Dirr; Stipes Publishing, Champaign, Illinois; Most Current Edition.

5. Glossary of Arboricultural Terms, International Society of Arboriculture, Champaign IL, most current edition.

1.6 DEFINITIONS

A. Balled and Burlapped Stock: Plants dug with firm, natural balls of earth in which they were grown, with ball size not less than diameter and depth recommended by ANSI Z60.1 for type and size of plant required; wrapped with burlap, tied, rigidly supported, and drum laced with twine with the root flare visible at the surface of the ball as recommended by ANSI Z60.1. Soil shall be removed to expose root flare if not evident at installation. Trees growing in field soil for at least 12 months prior to harvest.

B. Bare-Root Stock: Not Allowed.

C. Container-Grown Stock: Healthy, vigorous, well-rooted plants grown in a container, with a well-established root system reaching sides of container and maintaining a firm ball when removed from container. Container shall be rigid enough to hold ball shape and protect root mass during shipping and be sized according to ANSI Z60.1 for type and size of plant required. Kinked / circling roots shall not be allowed.

D. Finish Grade: Elevation of finished surface of planting soil.

E. Healthy: Plants that are growing in a condition that expresses leaf size, crown density, color; and with annual growth rates typical of the species and cultivar's horticultural description, adjusted for the planting site soil, drainage and weather conditions.

F. Kinked ("circling") root: A root within the root package that bends more than 90 degrees. also see "Stem Girdling Roots".

G. Maintenance: Actions that preserve the health of plants after installation and as defined in this specification.

H. Maintenance period: The time period, as defined in this specification, which the Contractor is to provide maintenance.

I. Manufactured Topsoil: Soil produced off-site by homogeneously blending mineral soils or sand with stabilized organic soil amendments to produce topsoil or planting soil.

J. Normal: the prevailing protocol of industry standard(s).

K. Pesticide: A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. This includes insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. It also includes substances or mixtures intended for use as a plant regulator, defoliant, or desiccant.

L. Pests: Living organisms that occur where they are not desired or that cause damage to plants, animals, or people. These include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.

M. Plant; Plants; Plant Material: These terms refer to vegetation in general, including trees, shrubs, vines, ground covers, ornamental grasses, bulbs, corms, tubers, or herbaceous vegetation.

N. Planting Soil: Standardized topsoil; existing, native surface topsoil; existing, in-place surface soil; imported topsoil; or manufactured topsoil that is modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth. Per plans.

O. Reasonable and reasonably:

1. When used in this specification relative to plant quality, it is intended to mean that the conditions cited will not affect the establishment or long-term stability, health or growth of the plant. This specification recognizes that it is not possible to produce plants free of all defects, but that some accepted industry protocols and standards result in plants unacceptable to this project.
2. When reasonable or reasonably is used in relation to other issues such as weeds, diseased, insects, it shall mean at levels low enough that no treatment would be required when applying recognized Integrated Plant Management practices.
3. This specification recognizes that some decisions cannot be totally based on measured findings and that professional judgment is required. In cases of differing opinion, the Owner’s Representative’s expert shall determine when conditions are judged as reasonable.

P. Root ball: The mass of roots including any soil or substrate that is shipped with the tree within the root ball package.

Q. Root Flare: Also called "trunk flare." The area at the base of the plant's stem or trunk where the stem or trunk broadens to form roots; the area of transition between the root system and the stem or trunk. Soil should be removed to expose this flare if needed.

R. Root Stabilization System: As directed by plans, 2x2 pine stakes with associated crossbars. These shall be used in place of standard staking/guying details.

S. Shrub: Woody plants with mature height approximately less than 15 feet.

T. Spade harvested and transplanted: Field grown trees that are mechanically harvested and immediately transplanted to the final growing site without being removed from the digging machine.

U. Stem Girdling Roots: Any root more than ¼ inch diameter currently touching the trunk, or with the potential to touch the trunk, above the root collar approximately tangent to the trunk circumference or circling the trunk. Roots shall be considered as Stem Girdling that have, or are likely to have in the future, root to trunk bark contact. Roots that encircle the stems (trunks) of trees below the soil surface. Potential circling roots shall be removed upon installation to avoid such problems.

V. Sub-grade: Surface or elevation of subsoil remaining after excavation is complete, or top surface of a fill or backfill before planting soil is placed.

W. Subsoil: All soil beneath the topsoil layer of the soil profile, and typified by the lack of organic matter and soil organisms.

X. Surface Soil: Soil that is present at the top layer of the existing soil profile at the Project site. In undisturbed areas, the surface soil is typically topsoil, but in disturbed areas such as urban environments, the surface soil can be subsoil.

Y. Structural root: One of the largest roots emerging from the root collar.

Z. Tree: Single and multi-stemmed plants with mature height approximately greater than 15 feet.

1.7 SUBMITTALS

A. All submittals are to be made in writing per the General Conditions.

B. Landscape Contractor Qualifications: Submit contractor qualifications before award, if requested. Include the date the business was established and a list of 3 completed installations of similar scope. Include location; name and address of owner; and date when each project was completed.

1. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when work is in progress.
2. Maintenance Proximity: Not more than two (2) hours' normal travel time from Installer's place of business to Project site.
3. Pesticide Applicator: State licensed, commercial.

C. Soil test report of soil mix with recommendations for pH adjustment of soil.

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

1. Fertilizers.
2. pH Adjusters
3. Pesticides and Herbicides: Include product label and manufacturer's application instructions specific to this Project.
4. Topsoil and soil conditioner; submit one quart of topsoil, yard sand, and soil conditioner if requested.
5. Plant Photographs: Include color photographs in digital format of each required species and size of plant material as it will be furnished to the Project. Such photographs are especially important for the Palm and shade trees. Identify each photograph with the full scientific name of the plant, plant size, and name of the growing nursery.
6. **Edging materials.**
7. **Weed control barrier.**
8. **Erosion control mesh.**

E. Product Certificates: For soil amendments and fertilizers, from manufacturer.

F. Maintenance Instructions: Recommended procedures to be established by Owner for maintenance of turf during a calendar year. Submit before expiration of required initial maintenance periods.

G. Samples for Verification

1. Mineral Mulch: 2 lbs in sealed plastic bag and typical of the lot to be delivered and installed on-site; provide an accurate indication of color, texture, and makeup of the material.
2. Weed Control Barrier: 12 by 12 inches.
3. Erosion Control Fiber Mesh: 12 by 12 inches.
4. Edging Materials and Accessories: Manufacturer's standard size.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of conformance with state and federal laws if applicable.

B. Bulk Materials:

1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
2. Provide erosion-control measures to prevent erosion or displacement of bulk materials, discharge of soil-bearing water runoff, and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
3. Accompany each delivery of bulk fertilizers, lime, and soil amendments with appropriate certificates.

C. Do not prune trees and shrubs before delivery or following installation. Protect bark, branches, and root systems from sun scald, drying, wind burn, sweating, whipping, and other handling and tying damage. Do not bend or bind-tie trees or shrubs in such a manner as to destroy their natural shape. Provide protective covering of plants during shipping and delivery. Do not drop plants during delivery and handling.

D. Handle planting stock by root ball.

E. Store bulbs, corms, and tubers in a dry place at 60 to 65 deg F until planting.

F. Deliver plants after preparations for planting have been completed, and install immediately. If planting is delayed more than six hours after delivery, set plants and trees in their appropriate aspect (sun, filtered sun, or shade), protect from weather and mechanical damage, and keep roots moist.

1. Reject dried-out plants.
2. Set balled stock on ground and cover ball with soil, peat moss, sawdust, or other acceptable material.
3. Do not remove container-grown stock from containers before time of planting.
4. Water root systems of plants stored on-site deeply and thoroughly with a fine-mist spray. Water as often as necessary to maintain root systems in a moist, but not overly-wet condition.

1.9 PROJECT CONDITIONS

A. Field Measurements: Verify actual grade elevations, service and utility locations, irrigation system components, and dimensions of plantings and construction contiguous with new plantings by field measurements before proceeding with planting work.

B. Interruption of Existing Services or Utilities: Do not interrupt services or utilities to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary services or utilities according to requirements indicated:

1. Notify Landscape Architect and Owner no fewer than two (2) days in advance of proposed interruption of each service or utility.

2. Do not proceed with interruption of services or utilities without Landscape Architect's and Owner's written permission.

C. Landscape work may proceed at any time or season agreed upon by the Contractor and the Owner's Representative. However, schedule and perform landscape work only when weather and soil conditions are suitable in accordance with local practice. Do not install plant materials when temperatures drop below 35° or above 95°Ft, nor when wind velocity exceeds 10 miles per hour.

D. Coordinate planting periods with initial maintenance periods to provide required maintenance from date of Substantial Completion.

1.10 WARRANTY

A. Special Warranty: Installer agrees to repair or replace plantings and accessories that fail in materials, workmanship, or growth within specified warranty period.

1. Failures include, but are not limited to, the following:
   a. Death and unsatisfactory growth, except for defects resulting from abuse, lack of adequate maintenance, or neglect by Owner, or incidents that are beyond Contractor's control.
   b. Structural failures including plantings falling or blowing over.
   c. Faulty performance of tree stabilization.
   d. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
2. Warranty Periods from Date of Substantial Completion:
   a. Trees, Shrubs, Vines, and Ornamental Grasses: Twelve (12) months.
   b. Ground Covers, Biennials, Perennials, and Other Plants: Twelve (12) months.
3. Include the following remedial actions as a minimum:
   a. Immediately remove dead plants and replace unless required to plant in the succeeding planting season.
   b. Replace plants that are more than 25 percent dead or in an unhealthy condition at end of warranty period.
   c. Provide extended warranty for period equal to original warranty period, for replaced plant material.

1.11 QUANTITIES

A. In the event of a variation between the 1) plant quantities shown on the plans and the 2) required spacing-dependent quantity for a planting area, the required spacing shall control.

PART 2 - PRODUCTS

2.1 PLANT MATERIAL

A. General: Furnish nursery-grown plants true to genus, species, variety, cultivar, stem form, shearing, and other features indicated in Plant Schedule or Plant List shown on Drawings and complying with Florida Grades & Standards (Grade #1 or better; and with healthy root systems developed by transplanting or root pruning. Provide well-shaped, fully branched, healthy, vigorous stock, densely foliated when in leaf and free of disease, pests, eggs, larvae, and defects such as knots, sun scald, injuries, abrasions, and disfigurement.

1. Trees with damaged, crooked, or multiple leaders; tight vertical branches where bark is squeezed between two branches or between branch and trunk ("included bark"); crossing trunks; cut-off limbs more than ¾" in diameter; or with stem girdling and/or circling roots will be rejected.
2. Collected Stock: Do not use plants harvested from the wild, from native stands, from an established landscape planting, or not grown in a nursery unless otherwise indicated.

B. Provide plants of sizes, grades, and ball or container sizes complying with Florida Grades & Standards for types and form of plants required. Plants of a larger size may be used if acceptable to Architect, with a proportionate increase in size of roots or balls.

1. Plant size is to take precedence over container size.

C. Root-Ball Depth: Furnish trees and shrubs with root balls measured from top of root ball, which shall begin at root flare according to Florida Grades and Standards. Root flare shall be visible before planting.

D. If formal arrangements or consecutive order of plants is shown on Drawings, select stock for uniform height and spread, and number the labels to assure symmetry in planting.

E. All plant material shall be graded #1 or Florida Fancy as outlined under the most current *Grades and Standards for Nursery Plants*, State Plant Board of Florida.

2.2 PLANTING SOIL

A. Fine sand or loamy fine sand indigenous to the area suitable for plant growth that is free of weeds, roots, stumps, rocks larger than 1/2" diameter, organic muck, hard pan, toxic substances detrimental to plant growth, and construction debris such as limerock, concrete, and asphalt pieces. Deliver in a normally moist condition, neither muddy nor wet. Soil used for topsoil shall meet the following criteria measured in accordance with the appropriate AASHTO and ASTM standard:

1. USDA Texture: Fine Sand, Loamy fine sand
2. AASHTO Classification: A-3
3. pH 5.0-7.5
4. Deleterious Material 0-2% maximum by mass (rocks, roots, sod)
5. Organic Matter Content 1-10% by mass
   a. Preferred is final tested organic matter between 2.75 and 4% (by dry weight)
6. Sand Content 80-96% by mass
7. Silt & Clay Content 3-10% by mass

B. Use existing soil in plant pits if the soil complies with the standard for topsoil, unless the soil is contaminated with limerock, clay, brush, weeds, roots, stumps, stones larger than 1 ½ inches in any dimension, litter and other extraneous or toxic matter harmful to plant growth. Remove contaminated soil and replace with acceptable stockpiled existing soil, new topsoil or yard sand.

C. All shrubs shall have a planting hole dug 2x the width and depth of the root ball. Back fill shall be composed native soil and soil mix. See landscape notes “SOIL MIX” for guidance on development of soil mix.

2.3 ORGANIC SOIL AMENDMENTS

A. Provide 100% organic soil conditioner, free of limerock, clay, brush, weeds, roots, stumps, gravel, litter and other extraneous or toxic matter harmful to plant growth. Soil conditioner shall be one of the following:

1. Compost: Meet requirements of Florida Department of Environmental Protection Rule 62.709.550 Type Y (yard waste). Compost shall be 100% organic yard and tree trimmings with a 25/1 carbon/nitrogen ratio, mature and stable, free of pathogens, weed seeds, and debris, composted for a minimum of 15 days at 131 degrees F., with at least 3 turnings, then shredded to pass through a 1/2 inch mesh screen. Available from Enviro-Comp Services, Inc.; 11771 Phillips Highway; Jacksonville, Fl 32256; 904-292-1828.
2. Wood Derivatives: Decomposed, nitrogen-treated sawdust, ground bark, or wood waste; of uniform texture and free of chips, stones, sticks, soil, or toxic materials. Mechanically shredded pine bark with at least 90% of particle size ¼” or less. In lieu of decomposed wood derivatives, mix partially decomposed wood derivatives with ammonium nitrate at a minimum rate of 0.15 lb/cu. ft. of loose sawdust or ground bark, or with ammonium sulfate at a minimum rate of 0.25 lb/cu. ft. of loose sawdust or ground bark.

2.4 FERTILIZERS

A. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50% derived from natural organic sources of urea formaldehyde, phosphorous, and potassium in the following composition:

1. Composition: Develop to address soil test. If no soil test is required, provide 1 lb/1000 sq. ft. of actual nitrogen, 4% phosphorous, and 2% potassium, by weight.

2. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified soil-testing laboratory.

2.5 MULCHES

~~A. Pinestraw Mulch: Provide air-dry, clean, mildew- and seed-free mulch.~~

B. Mineral Mulch: Hard, durable stone, washed free from loam, sand, clay, and other foreign substances, of the following type, size range, and color:

1. Type: Rounded riverbed smooth-faced stone.
2. Size Range: 1-1/2 inches minimum by 2-1/2 inches maximum.
3. Color: Even mix of tan, brown, and gray, acceptable to Architect and matching that found in use at Building T.

2.6 WEED CONTROL BARRIERS

A. Nonwoven Geotextile Filter fabric: Polypropylene or polyester fabric, 3 oz./sq. yd. minimum, composed of fibers formed into a stable network so that fibers retain their relative position. Fabric shall be inert to biological degradation and resist naturally encountered chemicals, alkalis, and acids.

2.7 EROSION-CONTROL MATERIALS

A. Erosion-Control Fiber Mesh: Biodegradable burlap or spun-coir mesh, a minimum of 0.92 lb/sq. yd. with 50 to 65 percent open area. Include manufacturer's recommended steel wire staples, 6 inches long.

2.8 PESTICIDES

A. General: Pesticide, registered and approved by EPA, acceptable to authorities having jurisdiction, and of type recommended by manufacturer for each specific problem and as required for Project conditions and application. Do not use restricted pesticides unless authorized in writing by authorities having jurisdiction.

B. Pre-Emergent Herbicide (Selective and Non-Selective): Effective for controlling the germination or growth of weeds within planted areas at the soil level directly below the mulch layer.

C. Post-Emergent Herbicide (Selective and Non-Selective): Effective for controlling weed growth that has already germinated.

2.9 TREE STABILIZATION MATERIALS

A. Stakes and Guys are to be used only on transplanted trees. Stabilization of transplanted trees per arborists direction.

B. Root Stabilization System

1. Crossbars: Rough-sawn, sound, new hardwood or softwood, free of knots, holes, cross grain, and other defects, 2x6 untreated pine, nominal by lengths indicated, located on both sides of the tree. Qty: 4 per tree.
2. Straps: ¾" polyester strapping with plastic or metal earth anchors per manufacturer guidelines.
3. Stabilization system shall remain in place to naturally decay in place. Cut polyester straps following establishment.

C. Palm Bracing:

1. Wood battens: 2"x8" rough sawn pine battens pre-cut with notch for support timbers and fitted with steel restraining strap.
2. Wooden Braces: 2"x4" rough sawn pine supports.

2.10 LANDSCAPE EDGINGS

A. Aluminum Edging: Standard profile extruded aluminum edging, ASTM B221 Alloy 6063-T6, fabricated in standard lengths with interlocking sections with loops stamped from face of sections to receive stakes.

1. Edging Size: 3/16 inch thick by 5-1/2 inches deep
2. Stakes: Aluminum, ASTM B221 Alloy 6061-T6, approximately 1-1/2 inches wide by 12 inches long.
3. Finish: Black anodized.

2.11 MISCELLANEOUS PRODUCTS

A. Burlap: Non-synthetic, biodegradable.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Contractor shall obtain soil testing for the areas around proposed project site. A minimum of 3 areas shall be tested. 15 samples, distributed per agreement with Landscape Architect, shall be taken for each area; 6"-10" in depth. Results shall be reviewed with the Owner and Landscape Architect prior to planting. This shall be mixed and submitted for testing for the following factors:

1. pH / Buffer pH
2. Organic content / Sand content / Silt and Clay Content (percentage)
3. Phosphorous / Potassium / Calcium / Magnesium
4. AASHTO classification

B. Contractor shall provide landscape bed preparation, including removal and disposal of existing landscape and trees (trees to remain are noted on plan). Contractor shall pull any applicable permits, such as tree removal permit.

C. Examine areas to be planted for compliance with requirements and other conditions affecting performance.

1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.
2. Do not mix or place soils and soil amendments in frozen, wet, or muddy conditions.
3. Suspend soil spreading, grading, and tilling operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.
4. Uniformly moisten excessively dry soil that is not workable and which is too dusty.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

E. If soil does not meet definition for PLANTING SOIL (as defined in part 2) or contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by Landscape Architect and replace with new planting soil.

3.2 PLANT GUIDELINES / PLACEMENT

A. Planting design reflects that vegetation that exceeds twenty-five (25) feet in height at maturity should not be planted closer than fifteen (15) feet of the vertical plane of an existing power line, excluding service wires. Notify Landscape Architect immediately of any potential conflict with overhead utilities.

B. Coordinate the relocation of any irrigation lines, heads or the conduits of other utility lines that are in conflict with tree locations. Root balls shall not be altered to fit around lines. Notify the Owner's Representative of any conflicts encountered.

C. Schedule the planting to occur prior to application of the mulch. If the bed is already mulched, pull the mulch from around the hole and plant into the soil. Do not plant the root system in the mulch. Pull mulch back so it is not on the root ball surface.

D. Trees shall not be planted closer than 7.5' from the centerline of underground utilities.

E. Non-canopy trees shall not be planted closer than two (2) feet from any pavement edge. Canopy trees shall be planted no closer than six (6) feet from any pavement edge.

3.3 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities and turf areas and existing plants from damage caused by planting operations.

B. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

C. Remove shrubs and root mass to depth of 12” minimum.

D. Lay out individual tree and shrub locations and areas for multiple plantings. Stake locations, outline areas, adjust locations when requested, and obtain Landscape Architect's acceptance of layout before excavating or planting. Make minor adjustments as required.

1. Coordinate the relocation of any irrigation lines, heads or the conduits of other utility lines that are in conflict with tree locations. Root balls shall not be altered to fit around lines. Notify the Owner's Representative of any conflicts encountered.
2. Notify the owner's representative, one (1) week prior to layout. Layout all individual tree and shrub locations. Place plants above surface at planting location or place a labeled stake at planting location. Layout bed lines with paint for the owner's representative's approval. Secure the owner's representative's acceptance before digging and start of planting work.
3. Plants shall be planted in even, triangularly spaced rows, at the intervals called out for on the drawings, unless otherwise noted. The first row of annual flower plants shall be 6 inches from the bed edge unless otherwise directed.

E. Assure that soil moisture is within the required levels prior to planting. Irrigation, if required, shall not be applied less than 12 hours prior to planting to avoid planting in muddy soils.

F. Wrap trees and shrubs with burlap fabric over trunks, branches, stems, twigs, and foliage to protect from wind and other damage during digging, handling, and transportation.

3.4 PLANTING AREA ESTABLISHMENT

A. Soil in tree islands shall have at least 12" of suitable soil for tree plantings, and be void of any construction debris or unsuitable materials.

B. Loosen sub-grade of planting areas to a minimum depth of 12”. Remove stones larger than 1” in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.

1. Apply commercial fertilizer directly to subgrade before loosening.
2. Spread topsoil, apply soil amendments and fertilizer on surface, and thoroughly blend planting soil.
    a. Delay mixing fertilizer with planting soil if planting will not proceed within a few days.
    b. At the time of final grading, add fertilizer or acidifier if required to the planting soil at rates recommended by the testing results for the plants to be grown.
    c. Mix the coarse sand and compost together first and then add to the topsoil. Mix with a loader bucket to loosely incorporate the topsoil into the coarse sand/compost mix. Do not over mix. Do not mix with a soil blending machine. Do not screen the soil. Clumps of soil, compost and coarse sand will be permitted in the overall mix.
3. Spread planting soil to a depth of 12 inches but not less than required to meet finish grades after natural settlement. Do not spread if planting soil or sub-grade is frozen, muddy, or excessively wet.

a. Spread approximately one-half the thickness of planting soil over loosened subgrade. Mix thoroughly into top 4” of subgrade. Spread remainder of planting soil.

C. Finish Grading: Grade planting areas to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.

1. Assure that soil grades in the beds are smooth and as shown on the plans.

D. Before planting, obtain Landscape Architect's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.

E. Application of Mycorrhizal Fungi: At time directed by Landscape Architect, broadcast dry product uniformly over prepared soil at manufacturers application rate.

3.5 INSTALL EROSION-CONTROL FIBER MESH

A. Prepare the area indicated to receive erosion-control fiber mesh per the previous articles.

B. For erosion-control mesh, install from the top of slope, working downward, and as recommended by material manufacturer for site conditions. Overlap and fasten as recommended by manufacturer.

3.6 EXCAVATION FOR TREES AND SHRUBS

A. Planting Pits and Trenches: Excavate circular planting pits with sides sloping gradually inward at a 45° angle. Excavations with vertical sides are not acceptable. Ensure that root ball will sit on undisturbed base soil to prevent settling. Scarify sides of planting pit smeared or smoothed during excavation.

1. Excavate approximately two times as wide as ball diameter for balled and burlapped and container-grown stock.
2. Do not excavate deeper than 90% depth of the root ball, measured from the root flare to the bottom of the root ball.
3. If area under the plant was initially dug too deep, add soil to raise it to the correct level and thoroughly tamp the added soil to prevent settling.
4. Maintain required angles of repose of adjacent materials as shown on the Drawings. Do not excavate subgrades of adjacent paving, structures, hardscapes, or other new or existing improvements.
5. Maintain supervision of excavations during working hours.
6. Keep excavations covered or otherwise protected when unattended by Installer's personnel.
7. If drain tile is shown on Drawings or required under planting areas, excavate to top of porous backfill over tile.

B. Back fill with planting mix. See "soil mix" guidelines in Landscape Notes. Subsoil and topsoil removed from excavations may be used as planting soil.

C. Obstructions: Notify Landscape Architect if unexpected rock or obstructions detrimental to trees or shrubs are encountered in excavations.

1. Hardpan Layer: Drill 6-inch- diameter holes, 24 inches apart, into free-draining strata or to a depth of 10 feet, whichever is less, and backfill with free-draining material.

D. Drainage: Notify Landscape Architect if subsoil conditions evidence unexpected water seepage or retention in tree or shrub planting pits.

E. Fill excavations with water and allow complete percolation before positioning trees and shrubs.

3.7 TREE, SHRUB, AND VINE PLANTING

A. Before planting, verify that root flare is visible at top of root ball according to ANSI Z60.1. If root flare is not visible, remove soil in a level manner from the root ball to where the top-most root emerges from the trunk. After soil removal to expose the root flare, verify that root ball still meets size requirements.

B. Remove stem girdling roots and kinked roots. Remove injured roots by cutting cleanly; do not break.

C. Set balled and burlapped stock plumb and in center of planting pit or trench with root flare approximately 1 inch above adjacent finish grades (10% of root ball above grade).

1. Use planting soil (soil mix) for backfill.
2. After placing some backfill around root ball to stabilize plant, carefully cut and remove burlap, rope, and wire baskets from tops of root balls and from sides, but do not remove from under root balls. Remove pallets, if any, before setting. Do not use planting stock if root ball is cracked or broken before or during planting operation.
3. Backfill around root ball in layers, tamping to settle soil and eliminate voids and air pockets. When planting pit is approximately one-half filled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed.
   a. Back fill with planting mix. See "soil mix" guidelines in Landscape Notes. Subsoil and topsoil removed from excavations may be used as planting soil.
4. Continue backfilling process. Water again after placing and tamping final layer of soil.

D. Set container-grown stock plumb and in center of planting pit or trench with root flare approximately 1 inch above adjacent finish grades (10% of root ball above grade).

1. Use planting soil for backfill.
2. Carefully remove root ball from container without damaging root ball or plant.
3. Backfill around root ball in layers, tamping to settle soil and eliminate voids and air pockets. When planting pit is approximately one-half filled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed.
4. Continue backfilling process. Water again after placing and tamping final layer of soil.

E. Water each planting area as soon as the planting is completed. Apply additional water to keep the soil moisture at the required levels. Do not over water.

3.8 PALM PLANTING

A. Palm trees shall be placed at grade making sure not to plant the tree any deeper in the ground than the palm trees originally stood.

B. The trees shall be placed with their vertical axis in a plumb position.

C. All backfill shall be native soil except in cases where planting in rock. Water-settle the back fill.

D. Do not cover root ball with mulch or topsoil.

E. Provide a watering berm at each palm. Berms shall extend a minimum of 18 inches out from the trunk all around and shall be a minimum of (6) inches high.

F. Remove twine which ties fronds together after placing palm in planting hole and securing it in the upright position.

~~3.8 MECHANIZED TREE SPADE PLANTING (not anticipated)~~

~~A. Trees may be planted with an approved mechanized tree spade at the designated locations. Do not use tree spade to move trees larger than the maximum size allowed for a similar field-grown, balled-and-burlapped root-ball diameter according to ANSI Z60.1, or larger than the manufacturer's maximum size recommendation for the tree spade being used, whichever is smaller.~~

~~B. When extracting the tree, center the trunk within the tree spade and move tree with a solid ball of earth.~~

~~C. Cut exposed roots cleanly during transplanting operations.~~

~~D. Use the same tree spade to excavate the planting hole as was used to extract and transport the tree.~~

~~E. Plant trees as shown on Drawings, following procedures in "Tree, Shrub, and Vine Planting" Article.~~

~~F. Where possible, orient the tree in the same direction as in its original location.~~

3.9 TREE, SHRUB, AND VINE PRUNING

A. Prune plants as directed by the owner's representative. Pruning trees shall be limited to addressing structural defects as shown in details; follow recommendations per ANSI A300 and ISA best management practices.

3.10 TREE STABILIZATION

A. Install root stabilization as follows unless otherwise indicated:

1. Site-Fabricated Root Stabilization Method:
   a. Cut 2x6 pine crossbars the width of the root ball approximately 6” from the trunk.
   b. Attached the crossbars to the polyester straps and stakes, as shown on planting detail plans.
   c. Install Root Stabilizers per tree, 12” apart on either side of the tree trunk.

B. Palm Bracing: Tree staples, as noted on plans.

1. Wood battens: Secure five (5) layers of burlap to trunk and tighten wooden battens to trunk with metal retaining bands.
2. Wooden Braces: Drive bases of brace into ground a minimum of 24” and toe-nail into wood battens. Space three supports evenly on the diameter of each tree. Paint black.

3.11 GROUND COVER AND PLANT PLANTING

A. Set out and space ground cover and plants other than trees, shrubs, and vines as indicated in even rows with triangular spacing.

B. Use planting soil (soil mix) for backfill.

C. Dig holes large enough to allow spreading of roots.

D. For rooted cutting plants supplied in flats, plant each in a manner that will minimally disturb the root system but to a depth not less than two nodes.

E. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plants to hold water.

F. Water thoroughly after planting, taking care not to cover plant crowns with wet soil.

G. Protect plants from hot sun and wind; remove protection if plants show evidence of recovery from transplanting shock.

3.12 PLANTING AREA MULCHING

A. Install weed-control barriers before mulching according to manufacturer’s written instructions. Completely cover area to be mulched, overlapping edges a minimum of 6 inches and secure seams with galvanized pins.

B. Mineral mulch in planting areas: Apply 3-inch average thickness of mineral mulch extending 12 inches beyond edge of planting pit or trench and over whole surface of planting area, and finish level with adjacent finish grades. Do not place mulch within 6 inches of tree trunks.

C. ~~Mulch backfilled surfaces of planting areas and other areas a minimum of 3”. Apply a minimum of 2-3 inches depth of pine straw mulch before settlement, covering the entire~~

~~planting bed area. Install no more than 1 inch of mulch over the top of the root balls of all plants.~~ Taper to 2 inches when abutting pavement.

B. Apply mulch to the bed being sure not to cover the tops of the plants with or the tops of the root ball with mulch.

C. For trees planted in lawn areas the mulch shall extend to a 5 foot radius around the tree or to the extent indicated on the plans and spaced at least six inches away from the tree trunk.

D. Lift all leaves, low hanging stems and other green portions of small plants out of the mulch if covered.

3.13 INSTALLATION OF EDGING

A. Aluminum Edging: Install aluminum edging where indicated according to manufacturer's written instructions. Anchor with aluminum stakes spaced according to recommendations for sandy soil, driven below top elevation of edging.

3.14 PLANT MAINTENANCE

A. Maintain plantings by pruning, cultivating, watering, weeding, fertilizing, mulching, restoring planting saucers, adjusting and repairing tree-stabilization devices, resetting to proper grades or vertical position, and performing other operations as required to establish healthy, viable plantings. Spray or treat as required to keep trees and shrubs free of insects and disease.

B. Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace mulch materials damaged or lost in areas of subsidence.

C. Apply treatments as required to keep plant materials, planted areas, and soils free of pests and pathogens or disease. Use integrated past management practices whenever possible to minimize the use of pesticides and reduce hazards (see University of Florida Department of Entomology for more information). Treatments include physical controls such as hosing off foliage, mechanical controls such as traps, and biological control agents.

D. Maintain plantings for a period of 90 days after Substantial Completion. Correct all observed deficiencies prior to expiration of this period.

3.15 PESTICIDE APPLICATION

A. Apply pesticides and other chemical products and biological control agents in accordance with authorities having jurisdiction and manufacturer's written recommendations. Coordinate applications with Owner's operations and others in proximity to the Work. Notify Owner before each application is performed.

B. Pre-Emergent Herbicides (Selective and Non-Selective): Apply to tree, shrub, and ground-cover areas in accordance with manufacturer's written recommendations. Do not apply to seeded areas.

C. Post-Emergent Herbicides (Selective and Non-Selective): Apply only as necessary to treat already-germinated weeds and in accordance with manufacturer's written recommendations.

3.16 CLEANUP AND PROTECTION

A. During planting, keep adjacent paving and construction clean and work area in an orderly condition.

B. Protect plants from damage due to landscape operations and operations of other contractors and trades. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged plantings.

C. After installation and before Substantial Completion, remove nursery tags, nursery stakes, tie tape, labels, wire, burlap, and other debris from plant material, planting areas, and Project site.

D. Spray down base of building to remove soil from construction activities.

3.17 DISPOSAL

A. Remove surplus soil and waste material including excess subsoil, unsuitable soil, trash, and debris and legally dispose of them off Owner's property. Recycle materials as appropriate.

END OF SECTION 32 93 00

St. Johns River State College Library Renovation & Expansion
Orange Park, Florida
BID-SJR-03-2019

4'-0"

2'-8"

ST. JOHNS RIVER STATE COLLEGE

ORANGE PARK CAMPUS

REMODELING, RENOVATION, AND ADDITIONS

2010 - 2020

ADMINISTRATION

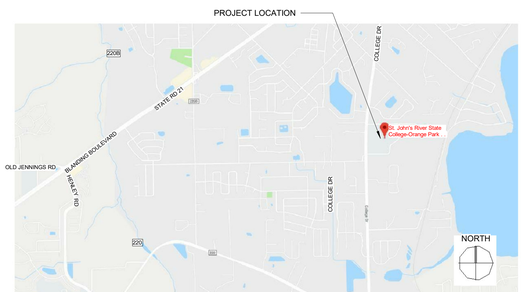
SAM GARRISON, J.D.	CHAIRMAN, DISTRICT BOARD OF TRUSTEES
JOE H. PICKENS, J.D.	PRESIDENT
MELISSA C. MILLER, J.D.	SENIOR VICE PRESIDENT
MIKE KELLER	CAMPUS EXECUTIVE DIRECTOR
CAROLINE D. TINGLE, M.P.A.	VICE PRESIDENT / DIRECTOR OF CLAY COUNTY COMMUNITY RELATIONS
DR. ROBERT L. McLENDON, JR.	PRESIDENT EMERITUS
RONALD BROWN, J.D.	BOARD ATTORNEY

TRUSTEES SERVING 2010 - 2020

CARL BECK	AUGUST 2005 - FEBRUARY 2012
ROBERT BRADLEY, J.D.	JULY 2009 - DECEMBER 2012
DENISE BRAMLITT	MARCH 2012 - DECEMBER 2018
RONALD COLEMAN, JR.	OCTOBER 2011 - APRIL 2017
JAN CONRAD	SEPTEMBER 2019 - PRESENT
BOBBY CRUM	JANUARY 2019 - PRESENT
WENDELL DAVIS	JULY 2013 - PRESENT
LESLIE DOUGHER	JANUARY 2019 - PRESENT
COL. (R) JOSEPH DUREN	MARCH 2012 - DECEMBER 2017
SAM GARRISON, J.D.	MAY 2017 - PRESENT
MARY ELLEN HANCOCK	OCTOBER 2011 - JUNE 2018
BRIAN KEITH	MARCH 2014 - PRESENT
MARLENE LAGASSÉ	MARCH 2014 - DECEMBER 2018
LARRY LANCASTER	JUNE 2002 - SEPTEMBER 2011
DIANE P. LEONE	AUGUST 2005 - JANUARY 2013
JOHN NELSON, JR.	JULY 2009 - FEBRUARY 2014
JAMES REID	JANUARY 2019 - PRESENT
WILLIAM W. ROBERTS	JUNE 1999 - MAY 2011
PRESTON SLOAN	MAY 1999 - MAY 2010

HARVARD JOLLY ARCHITECTURE	ARCHITECT
(NAME OF CONSTRUCTION COMPANY)	CONTRACTOR

Sketch #ADD2-1 issued with ADDENDUM No. 2



GENERAL NOTES

1. DIMENSIONS ON PLANS ARE TO COLUMN CENTERLINE, TO FINISH FACE OF INTERIOR METAL STUD PARTITIONS, TO FACE OF CONCRETE OR MASONRY WALLS, TO FINISH FACE OF EXTERIOR STUD WALLS AND TO FACE OF CORRIDOR SIDE FINISH OF CORRIDOR PARTITIONS UNLESS OTHERWISE NOTED.
2. ALL VERTICAL AND HORIZONTAL DUCTS, PIPES, CONDUITS, PANELS, ETC. (WHETHER SHOWN OR NOT) IN FINISHED ROOMS NOT ENCASED IN FINISHED WALLS OR CEILINGS SHALL BE FURRED-IN AND FINISHED TO MATCH ADJACENT SURFACES. SUCH FURRED SPACES SHALL EXTEND THE LENGTH OF THE WALL BETWEEN INTERSECTING WALLS UNLESS OTHERWISE INDICATED.
3. WHERE FURRING A PORTION OF A WALL CONFLICTS WITH CASEWORK, THE FURRED LENGTH SHALL BE AS REQUIRED TO ALLOW FOR PROPER INSTALLATION. WHERE ACCESS IS REQUIRED FOR VALVES, DAMPERS OR OTHER DEVICES REQUIRING ADJUSTMENT, PROVIDE ACCESS PANELS PAINTED TO MATCH ADJACENT SURFACES. FURNISH ACCESS PANELS IN WALLS AND NON-ACCESSIBLE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL EQUIPMENT IS REQUIRED, AND AT INTERVALS NOT TO EXCEED 30 FEET IN NON-ACCESSIBLE CEILINGS. ACCESS PANELS IN GYPSUM WALLBOARD MEMBRANES ABOVE NON-ACCESSIBLE CEILINGS SHALL BE ALIGNED TO PERMIT ACCESS AND SHALL BE SIZED TO PERMIT POSITIONING OF A STEP LADDER THROUGH THE ACCESS PANEL IN THE CEILING. RATED ACCESS PANELS IN CEILINGS AND MEMBRANES SHALL BE SUPPORTED FROM THE STRUCTURE, NOT THE CEILING FRAMING.
4. ALL WOOD BLOCKING WITHIN THE BUILDING ENVELOPE SHALL BE FIRE RETARDANT TREATED OR PRESSURE TREATED WHERE FIRE-TREATED BLOCKING IS NOT PERMITTED. ISOLATE TREATED WOOD FROM METAL FRAMING WITH 15# FELT OR ICE/ WATER SHIELD AND USE CORROSION RESISTANT FASTENERS TO MINIMIZE GALVANIC CORROSION.
5. THE TRADE CONTRACTOR SHALL VERIFY CONSTRUCTION IS COMPLETE AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS PRIOR TO INSPECTION BY THE AUTHORITY HAVING JURISDICTION.
6. CONTRACTOR SHALL PROTECT PIPES WITHIN CONCEALED WALL CAVITIES WITH NAIL/ FASTENER PROTECTION (FROM POTENTIAL PUNCTURE) FROM FINISHED SIDES OF WALL.
7. UPDATING OF NOAs AND FLORIDA PRODUCT APPROVALS: IN THE EVENT THAT SYSTEMS OR CONFIGURATIONS ARE REVISED AFTER ISSUANCE OF A JURISDICTIONAL-ISSUED PERMIT FOR THE WORK SHOWN AND NOTED HEREIN AND IN THE SPECIFICATIONS, THE CONTRACTOR PERFORMING THIS WORK SHALL BE REQUIRED TO UPDATE ALL AFFECTED JURISDICTIONAL AUTHORITIES AS REQUIRED BY THE JURISDICTIONAL AUTHORITY. THE EXTENT AND FORMAT OF THE UPDATE WILL BE DETERMINED BY MUTUAL AGREEMENT BETWEEN THE OWNER AND ARCHITECT. FBC 110.3.7.4.2
8. WEATHER PROTECTION: MINIMUM THICKNESS OF WEATHER COATINGS SHALL BE PROVIDED UNLESS SPECIFIED THICKER PER FBC TABLE 1405.2.
9. GEOTECHNICAL STATEMENT: THE PROJECT SCOPE INCLUDES WORK REQUIRING A GEOTECHNICAL INVESTIGATION. THE REPORT # 1719887 DATED 10/23/2019 IS INCLUDED IN THE PROJECT SPECFICATIONS MANUAL (SEE APPENDICIES) OR BY REFERENCE IN THE EVENT SPECIFICATIONS ARE LISTED ON THE DRAWINGS.
10. TOP OF SLAB ELEVATION COORDINATION: 0.00 ON ARCHITECTURAL PLANS CORRESPONDS TO NGVD ELEVATION 56.07'.

MATERIAL LEGEND

- ▨ EARTH/FILL
- ▨ GRAVEL
- ▨ BRICK
- ▨ CONCRETE
- ▨ STUCCO, CEMENT PLASTER, LIGHTWEIGHT CONCRETE
- ▨ CMU - LARGE SCALE
- ▨ CMU - SMALL SCALE
- ▨ CERAMIC TILE
- ▨ METAL - LARGE SCALE
- ▨ METAL - SMALL SCALE OR SHEET METAL
- ▨ FINISH WOOD
- ▨ WOOD BLOCKING
- ▨ WOOD SHIM
- ▨ PLYWOOD
- ▨ GYPSUM WALLBOARD
- ▨ CEMENT PLASTER
- ▨ RIGID INSULATION
- ▨ BATT INSULATION
- ▨ SAFING INSULATION
- ▨ CARPET
- ▨ PREMOLDED JOINT FILLER
- ▨ JOINT SEALANT AND BACKER ROD

SYMBOLS LEGEND

- COLUMN AND CONSTRUCTION GRID LINES
- DOOR SYMBOL
- CURTAIN WALL/ STORE FRONTS: (A-LETTERED). WINDOWS: (W-LETTERED). HOLLOW METAL (NUMBERED)
- LOUVER
- CABINET TAG
- SPRAYED FIRE RESISTIVE MATERIAL/ LINE TYPE
- EQUIPMENT DESCRIPT/ #
- MEDICAL EQUIPMENT/#
- DRAWING / DEMOLITION NOTE
- EXTERIOR/INTERIOR ELEVATION SYMBOL
- DETAIL INDICATION SYMBOL
- REVISION
- TOILET ACCESSORY DESCRIPT/ #
- SIGNAGE
- FLOOR/DATUM ELEVATION LEVEL
- MATCH LINE
- CEILING HEIGHT/ MATERIAL
- WALL TYPE/ STC RATING
- FLOOR PLAN ROOM TAG
- LIFE SAFETY ROOM TAG
- SLOPE
- FENCE LINE (VARIES PER PLAN)

ABBREVIATIONS

&	AND
□	ANGLE
#	NUMBER OR POUND
@	AT
	CENTERLINE
Ø	DIAMETER OR ROUND
A.B.	ANCHOR BOLT
A/C	AIR CONDITION(ING)
ACOUS.	ACOUSTIC(AL)
ADJ.	ADJUSTABLE, ADJACENT
A.D.O.	AUTOMATIC DOOR OPENER
A.F.F.	ABOVE FINISH FLOOR
A.H.U.	AIR HANDLER (UNIT) UNIT
AL.	ALUMINUM
A.L.	ACOUSTICAL LAY-IN
ALT.	ALTERNATE
ANOD.	ANODIZED
A.P.	ACCESS PANEL
APPROX.	APPROXIMATE
ARCH.	ARCHITECT
AUTO.	AUTOMATIC
B.G.	BUMPER GUARD
BLDG.	BUILDING
BM.	BEAM
BOT.	BOTTOM
B.U.R.	BUILT-UP ROOFING
CAB.	CABINET
C.B.	CATCH BASIN
C.C.T.	CUBICAL CURTAIN TRACK
C.C.U.	CORONARY CARE UNIT
CER.	CERAMIC
C.F.C.I.	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
C.G.	CORNER GUARD
C.I.	CAST IRON
C.J.	CONTROL JOINT
C.L.	CENTER LINE
CLG.	CEILING
CLO.	CLOSET
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
COM.	COMMON
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CORR.	CORRIDOR
C.O.	CASED OPENING
CP.	CARPET
C.S.	CONCRETE SEALED
C.S.W.	CAVITY SHAFT WALL
C.T.	CERAMIC TILE
CTR.	COUNTER, CENTER
C.T.S.	COMPUTED AXIAL TOMOGRAPHY SCANNER
CTSK.	COUNTER SUNK
C.T.W.	CERAMIC TILE WAINSCOAT
C.U.	CLEAN UTILITY
D.A.	DELAYED ACTION
DBL.	DOUBLE
D.E.	DOUBLE EGRESS
DEPT.	DEPARTMENT
DET.	DETAIL
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DISP.	DISPENSER
DN.	DOWN
D.R.	DRESSING ROOM
DR.	DOOR
DWGS.	DRAWINGS
DWR.	DRAWER
EA.	EACH
E.B.	EXPANSION BOLT
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMER.	EMERGENCY
E.P.	ELECTRICAL PANELBOARD
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.R.	EMERGENCY RELEASE
E.S.	EXPOSED STRUCTURE
E.T.	ELAPSED TIME
E.Q.C.	ELECTRIC WATER COOLER
EXP.	EXPANSION
EXIST.	EXISTING
EXT.	EXTERIOR
F.A.	FIRE ALARM
F.A.C.	FIRE ALARM CABINET
F.A.P.	FIRE ALARM PULL STATION
F.C.	FURRING CHANNEL
F.D.	FLOOR DRAIN, FIELD DIMENSION
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.E.	FINISHED FLOOR ELEVATION
F.H.C.	FIRE HOSE CABINET
F.I.	FILM ILLUMINATOR
FIN.	FINISH
FL.	FLOOR
FLASH.	FLASHING
FLOUR.	FLOURESCENT
F.N.D.	FEMINIE NAPKIN DISPOSAL
F.N.V.	FEMINIE NAPKIN VENDOR
FPRF.	FIRE PROOF(ING)
F.R.	FIRE RATED
FR.	FRAME
FT.	FOOT OR FEET
FTG.	FOOTING
FURR.	FURRING
FUT.	FUTURE
F.W.	FLUSH WOOD
GA.	GAUGE
GAL.	GALLON
GALV.	GALVANIZED
G.B.	GRAB BAR
G.C.	GENERAL CONTRACTOR
G.M.	GALVANIZED METAL
G.M.L.	GALVANIZED METAL LATH
G.M.S.	GALVANIZED METAL STUD
GND.	GROUND
GR.	GRADE
GYP.	GYPSUM
GWB	GYPSUM WALLBOARD
H.B.	HOSE BIB
HBD.	HARDBOARD
H.C.	HOLLOW CORE, HANDICAPPED
HDW.	HARDWARE
HDWD.	HARDWOOD
HGT.	HEIGHT
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.PT.	HIGH POINT
HR.	HOUR
H.R.	HANDRAIL
H.R.S.	HEALTH AND REHABILITATIVE SERVICES
H.S.	HEAT STRENGTHENED
H.S.V.	HEAT SEAMED VINYL
HTG.	HEATING
H.V.A.C.	HEATING, VENTILATION, & AIR CONDITIONING
I.D.	INSIDE DIAMETER
IN.	INCH(ES)
INCL.	INCLUDE(D)(ING)
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT(ED)
I.P.	ISOLATION PANEL
I.P.S.	INSIDE PIPE DIAMETER
I.T.	ISOLATION TRANSFORMER
I.V.T.	INTRAVENOUS TRACK
JAN.	JANITOR
JT.	JOINT
K.P.	KICK PLATE
K.S.	KNEE SPACE
L.	LENGTH
LAB.	LABORATORY
L.A.	LAY-IN ACOUSTICAL
LAM.	LAMINATE
LAV.	LAVATORY
LBL.	LABEL
L.F.	LINEAR FEET
LKR.	LOCKER
L.L.	LEAD LINED, LIVE LOAD
L.P.	LIGHTPROOF
LT.WT.	LIGHT WEIGHT
MAS.	MASONRY
MATL.	MATERIAL
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH.	MECHANICAL
MED.	MEDICINE CABINET
MED. PREP.	MEDICAL PREPARATION
MET.	METAL
MFD.	MANUFACTURED
MFR.	MANUFACTURER
M.G.	MEDICAL GAS
M.G.A.	MEDICAL GAS ALARM
M.G.I.	MEDICAL GAS OUTLET
M.G.V.B.	MEDICAL GAS VALVE BOX
M.H.	MANHOLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MLDG.	MOULDING
M.O.	MASONRY OPENING
M.O.L.	MORE OR LESS
M.P.	MEDICINE PREPARATION
M.R.	MOISTURE RESISTANT
M.R.I.	MAGNETIC RESONANCE IMAGER
M.S.	METAL STUD
M.S.L.	MEAN SEA LEVEL
M.T.	METAL THRESHOLD
MTD.	MOUNTED
MUL.	MULLION
M.V.	MIXING VALVE
N.C.	NURSE CALL
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.STA.	NURSE STATION
N.T.S.	NOT TO SCALE
O.A.	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER, OVERALL DIMENSION
O.F.C.O.	OWNER FURNISHED CONTRACTOR INSTALLED
O.F.O.I	OWNER FURNISHED OWNER INSTALLED
O.H.	OVERHEAD, OPPOSITE
O.H. CAB.	OVERHEAD CABINET
OPNG.	OPENING
OPP.	OPPOSITE
O.S.	OVERFLOW SCUPPER
O.R.	OPERATING ROOM
P.	PAINT
PF.	PREFABRICATED
PL.	PLATE, PLASTIC LAMINATE
PLAS.	PLASTER
PLBG.	PLUMBING
PLYWD.	PLYWOOD
POL.	POLISHED
PR.	PAIR
PT.	POINT
P.T.	PRESSURE TREATED
P.T.D.	PAPER TOWEL DISPENSER
PTN.	PARTITION
P.V.C.	POLYVINYL CHLORIDE
Q.T.	QUARRY TILE
R.	RISER OR RADIUS
R.C.	RUNNER CHANNEL
R.C.P.	REINFORCED CONCRETE PIPE
R.D.	ROOF DRAIN
RE.	RELATIVE TO
RECEP.	RECEPTACLE
REF.	REFERENCE
REFR.	REFRIGERATOR
REG.	REGLET, REGULAR
REINF.	REINFORCING
REQD.	REQUIRED
REV.	REVISION
R.H.	ROBE HOOK
RM.	ROOM
R.O.	ROUGH OPENING
S.A.B.	SOUND ATTENUATING BLANKET
S.C.	SOLID CORE
SCHED.	SCHEDULE
S.A.	SOAP DISPENSER
SEAL.	SEALANT
SECT.	SECTION
S.F., SQ. FT.	SQUARE FOOT (FEET)
SH.	SHELVING, SHELF
SHT.	SHEET
SIM.	SIMILAR
S.M.	SHEET METAL
S.M.S.	SHEET METAL SCREW
S.P.B.	SPECIMEN PASS BOX
SPEC.	SPECIFICATION(S)
SPF.	SOUNDPROOF
S.S.	STAINLESS STEEL
STA.	STATION
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRL.	STRUCTURAL
S.U.	SOILED UTILITY
SUSP.	SUSPENDED
S.Y.	SQUARE YARD
T.	TREAD, TOILET
TA.	TABLE
T.B.	TEST BORING
T.C.	TOILET COMPARTMENT
TEL.	TELEPHONE
TEMP.	TEMPERED, TEMPERATURE
T.&G.	TONGUE & GROOVE
THK.	THICK(NESS)
T.P.D.	TOILET PAPER DISPENSER
T.P.H.	TOILET PAPER HOLDER
TREAT.	TREATMENT
T.V.	TELEVISION
TYP.	TYPICAL
UC.	UNDERCUT
U.C.	UNDERCOUNTER
U.O.N.	UNLESS OTHERWISE NOTED
UTIL.	UTILITY
V.	VINYL
V.B.	VINYL BASE
V.C.T.	VINYL COMPOSITION TILE
VERT.	VERTICAL(LY)
VEST.	VESTIBULE
V.I.F.	VERIFY IN FIELD
V.W.C.	VINYL WALL COVERING
W/	WITH
W.B.	WALL BUMPER
W.C.	WATER CLOSET, WALL COVERING
W/C	WHEEL CHAIR
WD.	WOOD
W.H.	WATER HEATER
W.I.	WROUGHT IRON
W/O	WITHOUT
W.O.	WHERE OCCURS
W.P.	WATERPROOF(ING)
W.R.	WASTE RECEPTACLE
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC
W.W.M.	WELDED WIRE MESH
YD.	YARD

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FA001	01/02/2020	FIRE ALARM LEGEND AND NOTES			
FA002	01/02/2020	FIRE ALARM SITE PLAN			
FAD101	01/02/2020	FIRE ALARM DEMOLITION PLAN			
FA101	01/02/2020	FIRE ALARM PLAN (BASE BID)			
FA101A	01/02/2020	FIRE ALARM PLAN (ADD ALT #1)			
FA501	01/02/2020	FIRE ALARM RISER (BASE BID)			
FA501A	01/02/2020	FIRE ALARM RISER (ADD ALT #1)			

HARVARD JOLLY ARCHITECTURE
2714 DR. MLK JR. ST NORTH
ST. PETERSBURG, FL 33704
http://www.harvardjolly.com

CONSULTING ENGINEERS:

CIVIL ENGINEER:
HANSON PROFESSIONAL SERVICES INC.
8075 GATE PKWY WEST, STE 204
JACKSONVILLE, FL 32216
https://www.hanson-inc.com/

LANDSCAPE/IRRIGATION:
HARVARD JOLLY ARCHITECTURE
2714 DR. MLK JR. ST NORTH
ST. PETERSBURG, FL 33704
http://www.harvardjolly.com/

STRUCTURAL/MEP/FP/SYSTEMS ENGINEER:
TLC ENGINEERING SOLUTIONS
874 DIXON BOULEVARD
COCOA, FL 32922
http://www.tlc-engineers.com

INTERIOR DESIGN:
HARVARD JOLLY ARCHITECTURE
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LOCATION MAP

PROJECT LOCATION

SHEET NO. SYSTEM

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ST. JOHNS RIVER STATE COLLEGE
LIBRARY RENOVATION & ADDITION
283 COLLEGE DRIVE, ORANGE PARK, FL 32065
CONSTRUCTION DOCUMENTS

Comm. No: 18064.00
Date: 01/02/2020
Drawn by: TPP
Checked by: EVA

Revisions		
No.	Date	Revision Description
1	01/21/2020	ADDENDUM 1
2	01/28/2020	ADDENDUM 2

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

NAME: Phil Trezza, LIC. AR0017760

INDEX, GENERAL NOTES, LEGENDS & ABBREVIATIONS

G-010

EXISTING BUILDING 'B'

EXISTING BUILDING 'V'

EXISTING BUILDING 'M'

EXISTING BUILDING 'L' RENOVATION
12,445 S.F.
FFE = 56.07'

NEW BUILDING 'L' ADDITION
5,270 S.F.
FFE = 56.07'

EXISTING BUILDING 'D'

EXISTING BUILDING 'H'

REMOVE EXISTING CRAPE MYRTLE

DEMO SHRUBS

DEMO SHRUBS

WATER LINE

SANITARY LINE

TRANSPLANT APPROX. 8-INCH DBH QUERCUS VIRGINIANA LIVE OAK 20-FT SPREAD

A2 REMOVE AND PRESERVE DEDICATION PLAQUE AT TREE. INSTALL AT RELOCATED TREE PER OWNER'S DIRECTION.

DEMO SHRUBS

TRANSPLANT APPROX. 7-INCH MAGNOLIA GRANDIFLORA SOUTHERN MAGNOLIA 12-FT SPREAD

EXISTING JUNIPER

PROPOSED NEW LOCATION, QUERCUS V.

PROPOSED NEW LOCATION, QUERCUS V.

EXISTING PALMS

EXISTING OAKS

DRAINAGE INLET, TYP

STORM DRAIN PIPE

ROOT PRUNING LINE WITHIN TREE DRIPLINE FOR RETAINING WALL CONSTRUCTION.

OPEN TRENCH EXCAVATION TO REMOVE AND REPLACE SANITARY LINE. SEE 'UTILITY INSTALLATION NEAR TREES' ON DRAWING C-07.

SILT FENCE SEE CIVIL DRAWINGS

TREE PROTECTION AT DRIPLINE, TYPICAL

'TRENCHLESS' INSTALLATION FOR FIRE LINE. SEE 'UTILITY INSTALLATION NEAR TREES' ON DRAWING C-07.

TRANSPLANT APPROX. 3-INCH DBH QUERCUS VIRGINIANA LIVE OAK

FULLY SOD ALL DISTURBED AREAS AT THE EXPANDED STORM DRAINAGE POND.

A2 PROPOSED NEW LOCATION. MAGNOLIA V. CONFIRM EXACT PLACEMENT WITH OWNER.

ROAD

1 TREE DISPOSITION PLAN
SCALE: 1" = 20'

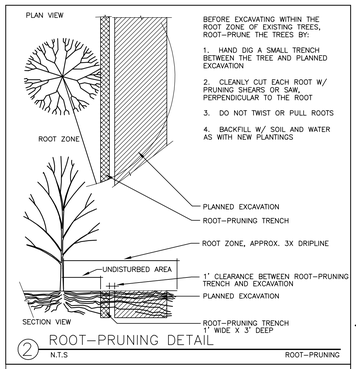
INDEX OF LANDSCAPE DRAWINGS

See also: Specification Section published in project manual format.

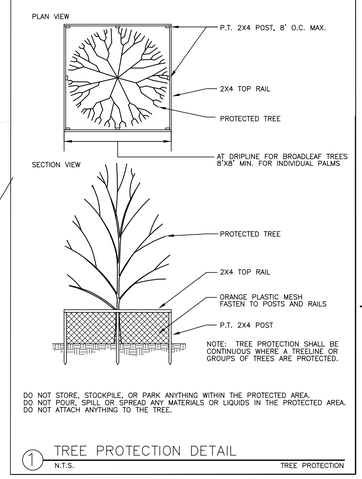
01 56 39 Temporary Tree and Plant Protection
32 92 00 Turf and Grasses
32 93 00 Plants
32 96 00 Transplanting

LEGEND

- SILT FENCE SEE CIVIL DRAWINGS
- TREE PROTECTION FENCE SEE DETAIL 1/L-100
- ROOT PRUNING LINE SEE DETAIL 2/L-100
- OPEN TRENCH EXCAVATION
- "TRENCHLESS" PIPE INSTALLATION



2 ROOT-PRUNING DETAIL
N.T.S ROOT-PRUNING



1 TREE PROTECTION DETAIL
N.T.S. TREE PROTECTION

TREE PROTECTION & REMOVAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO START OF WORK TO OBSERVE THE EXISTING TREES AND VERIFY SUITABILITY FOR PRESERVATION AS SHOWN.

2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS RELATED TO TREE REMOVAL.

3. IF THERE IS ANY DOUBT ABOUT THE CONDITION OF A TREE, PHOTOGRAPH THE TREE AND THE POTENTIAL PROBLEM. SEND THE PHOTOS AND A WRITTEN DESCRIPTION TO THE ATTENTION OF THE LANDSCAPE ARCHITECT:

JIM CLEES, RLA, ASLA
2714 DR. MARTIN LUTHER KING JR. ST. N.
ST. PETERSBURG, FL 33704

EMAIL: jim.clees@harvardjolly.com

4. BEFORE PERFORMING ANY EXCAVATIONS OR TREE REMOVALS, PROPER UTILITY COORDINATION MUST BE MADE WITH: "SUNSHINE 811" TO HAVE UTILITIES LOCATED AND MARKED. STARTING THE DAY AFTER YOUR CALL, IT TAKES ABOUT TWO BUSINESS DAYS TO COMPLETE.

5. TREE PROTECTIVE BARRIERS SHALL BE IN PLACE PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.

6. UNDERSTORY PLANTS WITHIN PROTECTIVE BARRIERS SHALL BE PROTECTED UNLESS OTHERWISE INDICATED.

7. NO EXCESS OIL, FILL, EQUIPMENT, BUILDING MATERIALS, OR BUILDING DEBRIS SHALL BE PLACED WITHIN THE AREAS SURROUNDED BY PROTECTIVE BARRIERS, NOR SHALL THERE BE DISPOSAL OF ANY WASTE MATERIAL SUCH AS PAINTS, OILS, SOLVENTS, ASPHALT, CONCRETE, MORTAR, OR ANY OTHER MATERIAL HARMFUL TO TREES OR UNDERSTORY PLANTS WITHIN THE AREAS SURROUNDED BY PROTECTIVE BARRIERS.

8. TREES SHALL NOT BE BRACED IN SUCH A FASHION AS TO SCAR, PENETRATE, PERFORATE, OR OTHERWISE INFLICT DAMAGE TO THE TREE.

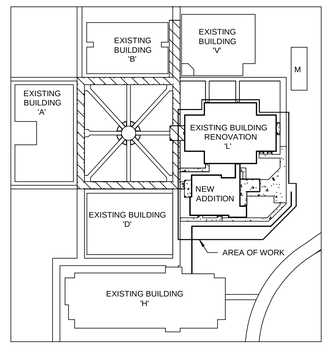
9. NATURAL GRADE SHALL BE MAINTAINED WITHIN PROTECTIVE BARRIERS.

10. UNDERGROUND UTILITIES SHALL BE PLACED OUTSIDE THE AREAS SURROUNDED BY PROTECTIVE BARRIERS. IF SAID PLACEMENT IS NOT POSSIBLE, DISTURBANCE SHALL BE MINIMIZED BY USING TECHNIQUES SUCH AS TUNNELING OR OVERHEAD UTILITY LINES.

11. FENCES AND WALLS SHALL BE CONSTRUCTED TO AVOID DISTURBANCE OF ANY PROTECTED TREE. POST HOLES AND TRENCHES LOCATED CLOSE TO TREES SHALL BE HAND DUG AND ADJUSTED AS NECESSARY, USING TECHNIQUES SUCH AS DISCONTINUOUS FOOTINGS TO AVOID DAMAGE TO MAJOR ROOTS.

12. MAINTAIN THE INTEGRITY OF TREE PROTECTION MEASURES THROUGHOUT THE PERIOD OF CONSTRUCTION.

13. ANY PRESERVED TREES DAMAGED OR DESTROYED BY CONSTRUCTION OR CONSTRUCTION-RELATED ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. LANDSCAPE ARCHITECT SHALL DETERMINE THE EXTENT OF DAMAGE AND SHALL DIRECT ANY REMEDIAL OR REPLACEMENT ACTIONS TO BE CONDUCTED BY THE CONTRACTOR. THIS WORK SHALL BE DONE AT NO COST TO OWNER OR CONSULTANTS, IN FULL COMPLIANCE WITH APPLICABLE CODES.



N KEY LEGEND

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Checked by: CJC

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2	01/28/2020	ADDENDUM 2

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

TREE DISPOSITION PLAN

L-100

PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	CALIPER	HEIGHT	SPREAD
LN	4	LAGERSTROEMIA X `NATCHEZ`	NATCHEZ CRAPE MYRTLE	45 GAL.	MULTI-TRUNK	7`-9`	42"
LJ	1	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	45 GAL.	MULTI-TRUNK	7`-9`	7`
UD	1	ULMUS PARVIFOLIA `DRAKE`	DRAKE ELM	65 GAL.	3-1/2"	9`-11`	32"

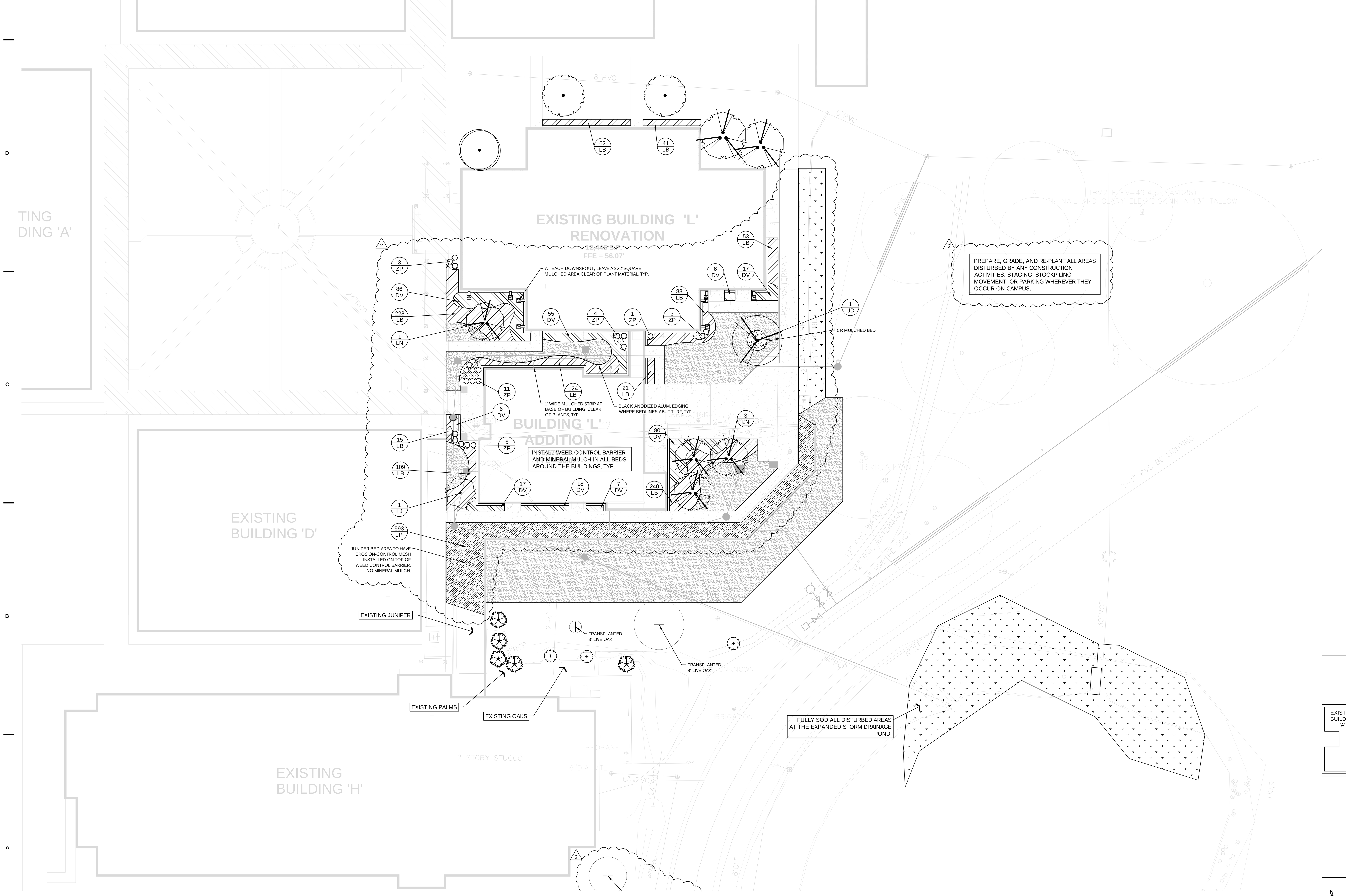
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SPACING
ZP	27	ZAMIA PUMILA	COONTIE	3 GAL.	36" o.c.

2

GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SPACING
DV	292	DIANELLA TASMANICA `VARIEGATA`	VARIEGATED FLAX LILY	3 GAL.	24" o.c.
JP	593	JUNIPERUS CHINENSIS `PARSONII`	PARSONI JUNIPER	3 GAL.	24" o.c.
LB	981	LIRIOPE MUSCARI `BIG BLUE`	BIG BLUE LIRIOPE	1 GAL.	18" o.c.

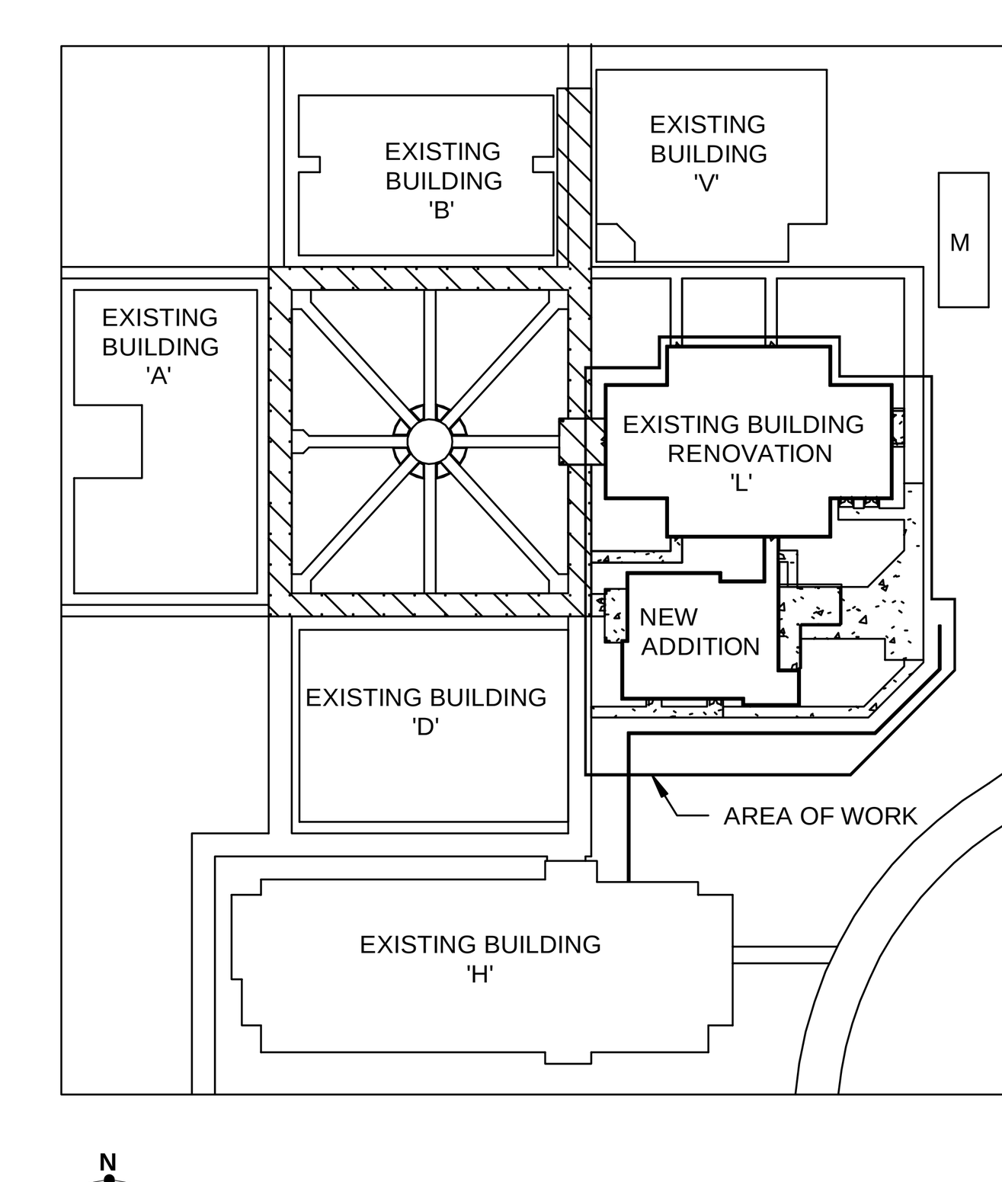
TURF	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SPACING
	TAKEOFF	STENOTAPHRUM SECUNDATUM `FLORATAM`	FLORATAM ST. AUGUSTINE SOD	SOD	NO GAPS
	TAKEOFF	PASPALUM NOTATUM 'ARGENTINE'	ARGENTINE BAHIA GRASS	SOD	NO GAPS

NOTE: GRADE AND SOD ALL DISTURBED AREAS



1 PLANTING PLAN - BASE BID

SCALE: 1" = 20'



KEY LEGEND - BASE BID

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TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

Charles J. Clees, LA0000599

LANDSCAPE PLANTING PLAN - BASE BID

L-101

PLANT SCHEDULE ADD ALT #1

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	CALIPER	HEIGHT	SPREAD
LN	2	LAGERSTROEMIA X `NATCHEZ`	NATCHEZ CRAPE MYRTLE	45 GAL.	MULTI-TRUNK	7`-9`	42"
LJ	2	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	45 GAL.	MULTI-TRUNK	7`-9`	7`

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SPACING
ZP	23	ZAMIA PUMILA	COONTIE	3 GAL.	36" O.C.

GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SPACING
DV	262	DIANELLA TASMANICA `VARIEGATA`	VARIEGATED FLAX LILY	3 GAL.	24" o.c.
JP	593	JUNIPERUS CHINENSIS `PARSONII`	PARSONI JUNIPER	3 GAL.	24" o.c.
LB	720	LIRIOPE MUSCARI `BIG BLUE`	BIG BLUE LIRIOPE	1 GAL.	18" o.c.

TURF	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SPACING
	TAKEOFF	STENOTAPHRUM SECUNDATUM `FLORATAM`	FLORATAM ST. AUGUSTINE SOD	SOD	NO GAPS
	TAKEOFF	PASPALUM NOTATUM `ARGENTINE`	ARGENTINE BAHIA GRASS	SOD	NO GAPS

NOTE: GRADE AND SOD ALL DISTURBED AREAS

EXISTING BUILDING 'B'

EXISTING BUILDING 'L' RENOVATION 12,445 S.F.

BUILDING 'L' ADDITION

EXISTING BUILDING 'D'

EXISTING BUILDING 'H'

EXISTING BUILDING 'A'

3 ZP
86 DV
228 LB
1 LN
55 DV
4 ZP
13 LB
53 LB
6 DV
17 DV
54 LB
1 LJ
11 ZP
124 LB
58 LB
21 DV
6 DV
15 LB
5 ZP
109 LB
1 LJ
593 JP
17 DV
18 DV
6 DV
30 DV
66 LB
1 LN

AT EACH DOWNSPOUT, LEAVE A 2'X2' SQUARE MULCHED AREA CLEAR OF PLANT MATERIAL, TYP.

1' WIDE MULCHED STRIP AT BASE OF BUILDING, CLEAR OF PLANTS, TYP.

BLACK ANODIZED ALUM. EDGING WHERE BEDLINES ABUT TURF, TYP.

INSTALL WEED CONTROL BARRIER AND MINERAL MULCH IN ALL BEDS AROUND THE BUILDINGS, TYP.

JUNIPER BED AREA TO HAVE EROSION-CONTROL MESH INSTALLED ON TOP OF WEED CONTROL BARRIER. NO MINERAL MULCH.

EXISTING JUNIPER

EXISTING PALMS

EXISTING OAKS

TRANSPLANTED 3" LIVE OAK

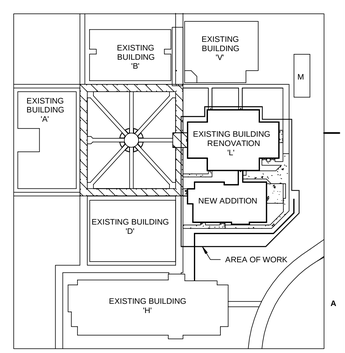
TRANSPLANTED 8" LIVE OAK

TRANSPLANTED MAGNOLIA

FULLY SOD ALL DISTURBED AREAS AT THE EXPANDED STORM DRAINAGE POND.

2 PREPARE, GRADE, AND RE-PLANT ALL AREAS DISTURBED BY ANY CONSTRUCTION ACTIVITIES, STAGING, STOCKPILING, MOVEMENT, OR PARKING WHEREVER THEY OCCUR ON CAMPUS.

1 PLANTING PLAN - ADD ALT #1
SCALE: 1" = 20'



N

KEY LEGEND ADD ALT #1

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
811 Sunshine, 811 Save. It's the Law.
www.callsunshine.com

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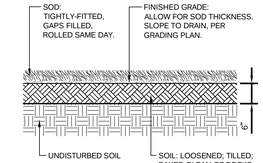
2	01/28/2020	ADDENDUM 2

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

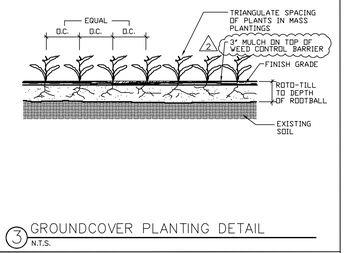
Charles J. Clees, LA0000599

LANDSCAPE PLANTING PLAN - ADD ALT #1

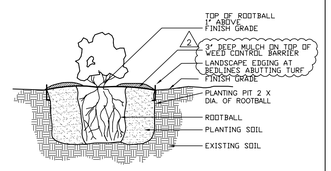
L-102



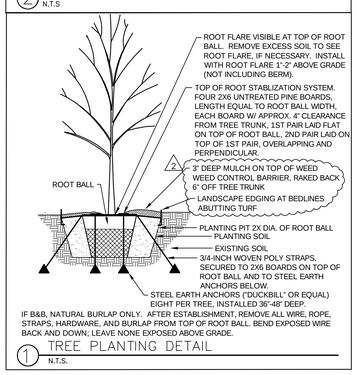
4 TURF SOD PLANTING DETAIL
N.T.S.



3 GROUNDCOVER PLANTING DETAIL
N.T.S.



2 SHRUB PLANTING DETAIL
N.T.S



IF B&B, NATURAL BURLAP ONLY. AFTER ESTABLISHMENT, REMOVE ALL WIRE, ROPE, STRAPS, HARDWARE, AND BURLAP FROM TOP OF ROOT BALL. BEND EXPOSED WIRE BACK AND DOWN; LEAVE NONE EXPOSED ABOVE GRADE.

1 TREE PLANTING DETAIL
N.T.S.

LANDSCAPE NOTES

1. CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK.

2. CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS.

3. ALL PLANT MATERIALS SHALL BE GRADE FLORIDA #1 OR BETTER, AS DEFINED IN GRADES AND STANDARDS FOR NURSERY PLANTS, FLORIDA DEPT. OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY. ALL HEIGHTS SHALL BE AS MEASURED FROM FINISH GRADE AFTER INSTALLATION.

4. PROVIDE PLANTS ACCORDING TO THE FULL BOTANICAL NAME, INCLUDING VARIETY OR CULTIVAR. DO NOT USE THE COMMON NAME WHEN ORDERING PLANT MATERIAL.

5. NO PLANT SHALL BE INSTALLED BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY CIVIL ENGINEER.

6. NO PLANT SHALL BE INSTALLED WITH ITS ROOTBALL TOP BELOW FINISH GRADE. SEE DETAILS FOR SPECIFIC REQUIREMENTS.

7. ALL TREES, SHRUBS, AND GROUND COVERS SHALL BE CONTAINER-GROWN OR B&B. BARE-ROOT, BAG-GROWN, AND ANY ROOT-BOUND STOCK WILL NOT BE ACCEPTED. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED AT TIME OF PLANTING.

8. SHRUBS AND GROUNDCOVERS PLANTED IN MASSES SHALL BE TRIANGULAR SPACED. ADJUST SPACING TO FIT THE QUANTITY OF PLANTS SHOWN ON THE PLAN IN THE AREA AVAILABLE.

9. TREES SHALL BE LOCATED ENTIRELY WITHIN PLANTING BEDS, ALLOWING FOR EASE OF MOWING AND EDGING. WHERE NO BEDS ARE INDICATED, TREES SHALL BE INSTALLED WITHIN A CIRCULAR MULCH RING THAT ENCOMPASSES THE DIAMETER OF THE PLANTING PIT AND ALL STAKES AND GUYS.

2 10. INSTALL BLACK ANODIZED ALUMINUM LANDSCAPE EDGING AT ALL BEDLINES ABUTTING TURF. SEE SPECIFICATIONS.

11. PRIOR TO PLANTING, THE LOCATION OF ALL TREES AND BEDLINES SHALL BE MARKED FOR REVIEW BY LANDSCAPE ARCHITECT. OBTAIN LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO PLANTING. FAILURE TO OBTAIN APPROVAL MAY RESULT IN RELOCATION OF THE PLANT MATERIALS BY THE CONTRACTOR PER THE LANDSCAPE ARCHITECT'S INSTRUCTIONS AT NO COST TO OWNER, ARCHITECT, OR LANDSCAPE ARCHITECT.

12. ALL LANDSCAPING SHALL BE INSTALLED PER PLAN, DETAILS, SPECIFICATIONS, AND APPROVED FIELD ADJUSTMENTS. FAILURE TO PERFORM TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT SHALL RESULT IN CORRECTIVE WORK AND MATERIAL REPLACEMENT AT NO COST TO THE OWNER, ARCHITECT, OR LANDSCAPE ARCHITECT.

13. ALL TREES AND SHRUBS SHALL BE SET PLUMB UNLESS OTHERWISE SPECIFIED.

14. CONTRACTOR SHALL PROVIDE PLANTING SOIL MIX PER THE SPECIFICATIONS.

2 15. MULCH SHALL BE ROUNDED RIVERBED SMOOTH-FACED STONE. SEE SPECIFICATIONS FOR SIZE RANGE AND COLORS. MULCH SHALL BE INSTALLED TO A MINIMUM DEPTH OF 3" IN ALL PLANTING AREAS. INSTALL MULCH ON TOP OF WEED CONTROL FILTER FABRIC. SEE SPECIFICATIONS FOR DESCRIPTION.

16. IF CONTRACTOR DISCOVERS ANY CONDITIONS HARMFUL TO PLANT MATERIAL, CONTACT LANDSCAPE ARCHITECT IMMEDIATELY.

17. NO SUBSTITUTIONS OR CHANGES OF ANY KIND WILL BE MADE WITHOUT WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.

18. CONTRACTOR SHALL OBTAIN AND PROVIDE ALL NECESSARY PERMITS, UNLESS OTHERWISE SPECIFIED.

19. CONTRACTOR SHALL STRIP ALL EXISTING PLANT MATERIAL FROM AREAS TO BE LANDSCAPED UNLESS OTHERWISE INDICATED. INSTALL FILL AS REQUIRED TO ESTABLISH FINISH GRADE, ALLOWING FOR SOD THICKNESS.

20. ANY EXISTING PLANT MATERIAL, NOT INDICATED FOR REMOVAL, THAT HAS BEEN DAMAGED BY CONSTRUCTION ACTIVITIES, ABOVE OR BELOW GROUND, SHALL BE REPAIRED OR REPLACED. DAMAGED PLANTING SHALL BE REPLACED IF REMEDIAL METHODS CANNOT CORRECT DEFICIENCIES. ALL DEAD TREES AND PLANTS SHALL BE REMOVED. THE CONTRACTOR SHALL PROVIDE ALL SUCH WORK AND MATERIALS AT NO ADDITIONAL COST TO OWNER, ARCHITECT, OR LANDSCAPE ARCHITECT. THE LANDSCAPE ARCHITECT SHALL BE THE FINAL AUTHORITY IN ASSESSING DAMAGE AND DETERMINING CORRECTIVE ACTIONS.

21. ALL PLANT MATERIALS, PLANTING SOIL, SOIL AMENDMENTS, FERTILIZER, STAKING, GUYING, FLAGGING, MULCH, AND SOD SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.

22. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. THE CONSTRUCTION DOCUMENTS ARE INCOMPLETE WITHOUT THE WRITTEN SPECIFICATIONS, PUBLISHED SEPARATELY.

TURF GRASS NOTES

1. CONTRACTOR SHALL FULLY SOD ALL PROJECT AREAS WITH THE INDICATED GRASSES AND IS RESPONSIBLE FOR ESTIMATING ALL QUANTITIES OF MATERIALS REQUIRED TO COMPLETE THE WORK.

2. SEE CIVIL DRAWINGS FOR PROJECT LIMITS.

3. SEE SPECIFICATIONS FOR SOIL TESTING AND REPORTING REQUIREMENTS.

4. SEE SPECIFICATIONS FOR SOIL AMENDMENTS AND FERTILIZERS.

5. SOD SHALL BE WEED, PEST, AND DISEASE FREE, INSTALLED WITH TIGHT JOINTS, AND ROLLED AT TIME OF INSTALLATION.

6. CONTRACTOR SHALL SOD ALL AREAS DISTURBED BY ANY PROJECT-RELATED ACTIVITY WHATSOEVER AT NO ADDITIONAL COST TO OWNER, ARCHITECT, OR LANDSCAPE ARCHITECT.

7. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. THE CONSTRUCTION DOCUMENTS ARE INCOMPLETE WITHOUT THE WRITTEN SPECIFICATIONS, PUBLISHED SEPARATELY.

1 PLANTING DETAILS
N.T.S.

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Charles J. Clees, LA0000599

LANDSCAPE PLANTING DETAILS

L-103

ULTIMATE C&C WIND PRESSURES (ASCE 7-10)

BUILDING	a (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)	ZONE 2H (PSF)	ZONE 3H (PSF)
ADDITION	6'-0"	134	104	<10	+16.0 -32.3	+16.0 -54.2	+16.0 -81.6	+29.6 -32.0	+29.6 -39.4	+16.0 -46.5	+19.2 -89.8
				20	+16.0 -31.5	+16.0 -48.4	+16.0 -67.6	+28.3 -30.7	+28.3 -36.3	+16.0 -45.7	+19.2 -69.2
				50	+16.0 -30.4	+16.0 -40.8	+16.0 -49.0	+26.5 -29.0	+26.5 -33.3	+16.0 -44.6	+19.2 -44.2
				100+	+16.0 -29.6	+16.0 -35.0	+16.0 -35.0	+25.2 -27.7	+25.2 -30.7	+16.0 -43.8	+19.2 -25.2

2

NOMINAL C&C WIND PRESSURES (ASCE 7-10)

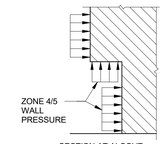
BUILDING	a (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)	ZONE 2H (PSF)	ZONE 3H (PSF)
ADDITION	6'-0"	134	104	<10	+10.0 -19.4	+10.0 -32.5	+10.0 -48.9	+17.7 -19.2	+17.7 -23.7	+10.0 -27.9	+11.5 -53.9
				20	+10.0 -18.9	+10.0 -29.1	+10.0 -40.5	+17.0 -18.4	+17.0 -22.1	+10.0 -27.4	+11.5 -41.5
				50	+10.0 -18.2	+10.0 -24.5	+10.0 -29.4	+15.9 -17.4	+15.9 -20.0	+10.0 -26.8	+11.5 -26.5
				100+	+10.0 -17.7	+10.0 -21.0	+10.0 -21.0	+15.1 -16.6	+15.1 -18.4	+10.0 -26.3	+11.5 -15.1

1

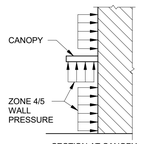
C&C WIND PRESSURE PLAN NOTES:

1. NOMINAL COMPONENTS AND CLADDING PRESSURES INDICATED HAVE BEEN CONVERTED FROM ULTIMATE PRESSURES USING A 0.6 MULTIPLIER FACTOR. NO FURTHER REDUCTION IS ALLOWED.
   A - INDICATES TRIBUTARY AREA IN S.F.
   a - INDICATES END ZONE WIDTH IN FT.
   Vult - INDICATES ULTIMATE DESIGN WIND SPEED IN MPH
   Vasd - INDICATES NOMINAL DESIGN WIND SPEED IN MPH
2. GROSS PRESSURES ARE FOR JOISTS, WINDOWS, DOORS, VENEER, LIGHT GAGE METAL FRAMING, METAL DECK ATTACHMENTS, ROOFING, ROOFING ACCESSORIES AND OTHER BUILDING COMPONENTS AND CLADDING. COMPONENT/CLADDING MANUFACTURER SHALL USE THE APPROPRIATE DESIGN PRESSURE CASE (ULTIMATE OR NOMINAL) FOR THE TESTING/ENGINEERING METHODOLOGY APPLICABLE TO EACH RESPECTIVE PRODUCT.
3. GROSS PRESSURES SHALL BE LINEARLY INTERPOLATED FOR (A) NOT SHOWN IN TABLE.
4. POSITIVE PRESSURES INDICATE PRESSURES ACTING TOWARD A PROJECTED SURFACE. NEGATIVE PRESSURES INDICATE PRESSURES ACTING AWAY FROM A PROJECTED SURFACE.
5. ROOF AND ZONES (1) THRU (3)
6. WALL ZONES (4) AND (5)
7. OVERHANG ZONES (2H) AND (3H) APPLY ONLY TO ROOF OVERHANGS WHERE THE COMPONENT OR CLADDING RECEIVES PRESSURE SIMULTANEOUSLY ON BOTH SIDES (UPWARD SUCTION ON TOP AND UPWARD PRESSURE ON BOTTOM, SUCH AS AT OPEN SOFFITS), AND IS CONTINUOUS WITH FIELD OF ROOF.
8. NET DESIGN ROOF PRESSURES SHALL BE CALCULATED USING THE SELFWEIGHT (DEAD LOAD) OF THE MATERIALS. HOWEVER, THE MAXIMUM REDUCTION OF WIND UPLIFT PRESSURES SHALL BE LIMITED TO THE SELF WEIGHT OF THE ROOF SYSTEM PLUS 5 PSF FOR SUPERIMPOSED DEAD LOADS.
9. INTERNAL PRESSURE COEFFICIENT FOR ENCLOSED BUILDING EQUALS +0.18 AND -0.18
10. ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR A LATERAL PRESSURE OF 52.0 PSF ULT (31.2 PSF NOM) AND A SIMULTANEOUS UPLIFT PRESSURE OF **41.2 PSF ULT** (24.7 PSF NOM) (ROOF TOP EQUIPMENT PER FBC SECTION 1620.6 WITH Qh = **27.3 PSF ULT** (16.4 PSF NOM))
11. AT ALCOVES AND CANOPIES, THE TOTAL UPLIFT PRESSURE ON THE ALCOVE SOFFIT OR CANOPY SHALL EQUAL THE WALL PRESSURE IN THAT AREA.
12. PARAPET DESIGN WIND PRESSURE LOAD CASES:
    LOAD CASE 1: OUTSIDE FACE: **+29.5 PSF ULT** (+17.7 PSF NOM) [ZONE 4] AND **+29.5 PSF ULT** (+17.7 PSF NOM) [ZONE 5]
    INSIDE FACE: **-54.2 PSF ULT** (-32.5 PSF NOM) [ZONE 2] AND **-81.5 PSF ULT** (-48.9 PSF NOM) [ZONE 3]
    LOAD CASE 2: OUTSIDE FACE: **-32.0 PSF ULT** (-19.2 PSF NOM) [ZONE 4] AND **-39.5 PSF ULT** (-23.7 PSF NOM) [ZONE 5]
    INSIDE FACE: **+16.0 PSF ULT** (+10.0 PSF NOM)
    NOTE THAT CASE 1 & CASE 2 WIND PRESSURES ARE APPLIED INDEPENDENTLY.
13. NEW WINDOWS AND DOORS AT EXISTING BUILDING "L" SHALL BE DESIGNED FOR THE FOLLOWING NOMINAL COMPONENTS AND CLADDING WALL PRESSURES:
    - WITHIN 10' OF EXTERIOR CORNERS OF BUILDING [ZONE 5]: **+30.8 / -40.3 PSF ULT** (+18.5 / -24.2 PSF NOM)
    - BALANCE OF BUILDING [ZONE 4]: **+30.8 / -33.5 PSF ULT** (+18.5 / -20.1 PSF NOM)

2



SECTION AT ALCOVE



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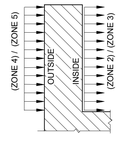
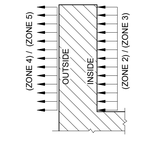
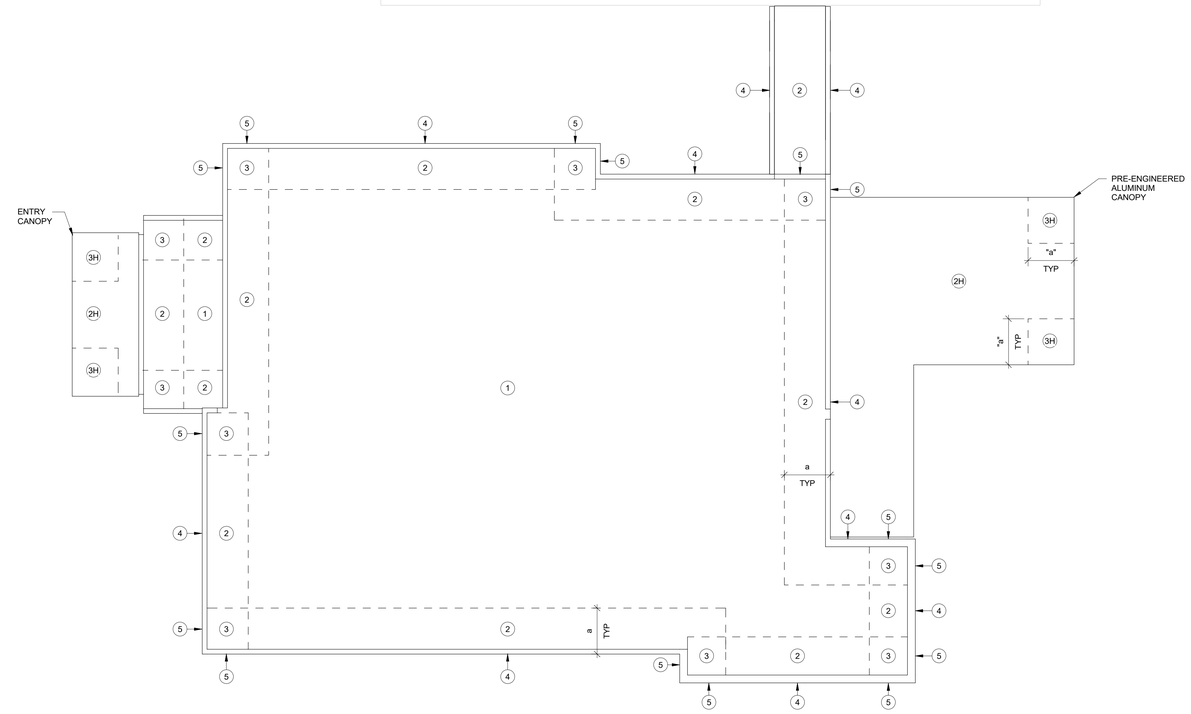


PARAPET LOAD CASE 1



PARAPET LOAD CASE 2

EXISTING BUILDING "L'



1 COMPONENTS AND CLADDING WIND LOAD DIAGRAM - BASE PLAN
1/8" = 1'-0"

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Comm. No:	18064.01
Date:	01/02/2020
Drawn by:	AED
Checked by:	GCK

Revisions

No.	Date	Revision Description
1	01/21/20	ADDENDUM 1
2	01/28/20	ADDENDUM 2

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

GARY C. KRUEGER LICENSE No 40788 STATE OF FLORIDA PROFESSIONAL ENGINEER

Gary Krueger, PE: FL LIC. #40788

C&C WIND LOAD DIAGRAM - BASE PLAN

S-004

ULTIMATE C&C WIND PRESSURES (ASCE 7-10)

BUILDING	a (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)	ZONE 2H (PSF)	ZONE 3H (PSF)
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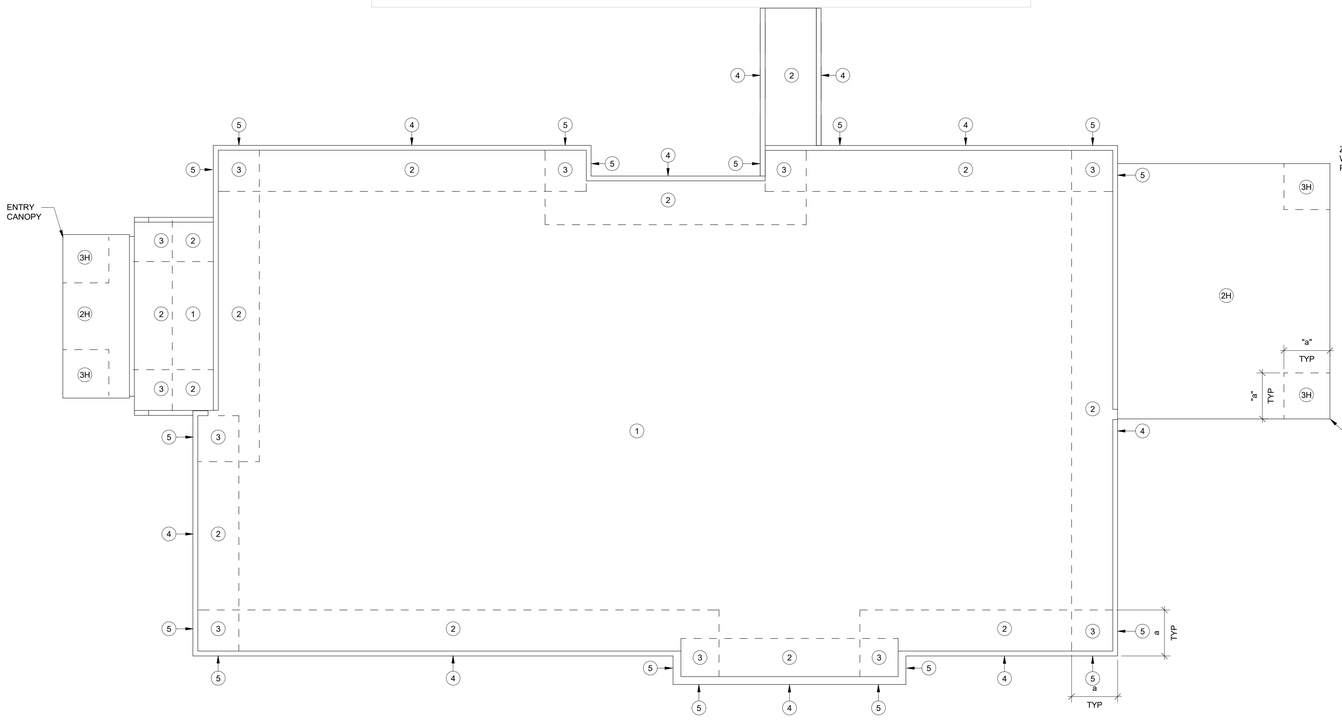
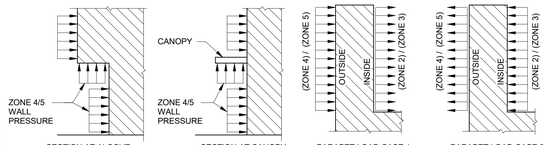
2

EXISTING BUILDING "L'



1 COMPONENTS AND CLADDING WIND LOAD DIAGRAM - ADD ALT 1
1/8" = 1'-0"



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Comm. No: 18064.01
Date: 01/02/2020
Drawn by: AED
Checked by: GCK

Revisions

No.	Date	Revision Description
1	01/21/20	ADDENDUM 1
2	01/28/20	ADDENDUM 2

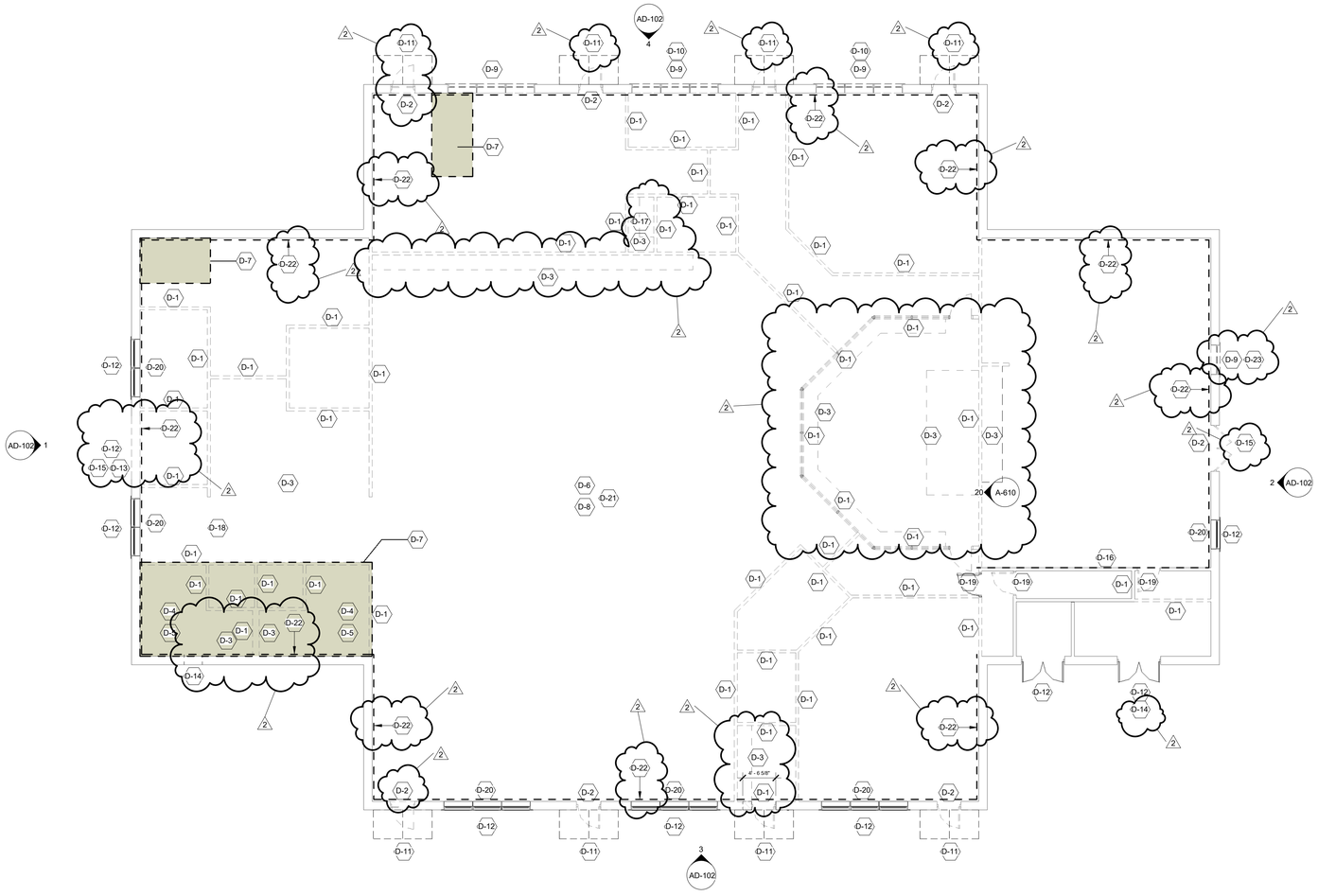
TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

GARY C. KRUEGER LICENSE No 40788 STATE OF FLORIDA PROFESSIONAL ENGINEER

Gary Krueger, PE: FL LIC. #40788

C&C WIND LOAD DIAGRAM - ADD ALT 1

S-005

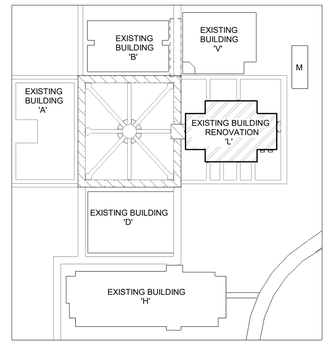


MEDIA CENTER BUILDING 'L' - DEMOLITION FLOOR PLAN

1/8" = 1'-0"

THE FOLLOWING ITEMS SHOULD BE SALVAGED FOR THE OWNER TO REUSE AS REQUIRED:

- MARKER BOARDS
- CASEWORK
- DOORS AND HARDWARE
- BLINDS
- CLOCKS
- ELECTRICAL DEVICES, INCLUDING LIGHTING FIXTURES



N

KEY LEGEND DEMO

N.T.S

DEMOLITION NOTES

1. SITE VISIT - PRIOR TO STARTING WORK, CONTRACTOR SHALL VISIT THE PROJECT SITE AND THOUGHROUGHLY BECOME FAMILIAR WITH EXISTING CONDITIONS. NO CLAIMS FOR ADDITIONAL WORK DUE TO OBSERVABLE CONDITIONS WILL BE CONSIDERED.
2. DEMOLITION WORK - CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIENCE TO ADJACENT OCCUPIED BUILDING AREAS. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER AS REQUIRED TO ACCOMODATE NEW WORK. PERFORM DEMOLITION IN ACCORDANCE WITH APPLICABLE AUTHORITIES HAVING JURISDICTION. TAKE CARE TO PREVENT DAMAGE AND EXCESSIVE NOISE OR VIBRATION SO AS TO NOT DISTURB ADJACENT OCCUPIED AREAS. ANY OPERATION THAT MAY CAUSE DISTURBANCE TO OWNER'S FUNCTIONING OPERATION OF THE PROJECT SHALL BE COORDINDATED WITH THE OWNER AT A MUTALLY AGREED UPON REGULAR ADVANCED TIMELINE OR AS SPECIFIED. SOME WORK MAY REQUIRE 'OFF HOURS' FROM OWNER OCCUPIED AREAS TO ALLOW FOR OWNER'S NORMAL OPERATIONAL HOURS' USE.
3. SCHEDULING - SCHEDULE DEMOLOITION WORK WITH FACILITY ADMINISTRATION/ OWNER PRIOR TO START OF THE WORK TO MINIMIZE DISRUPTION OF SERVICES AND PROVIDE FOR THE UNINTERRUPTED FUNCTIONING OF THE FACILITY AS APPLICABLE
4. PROTECTION - EXERCISE CARE DURING WORK TO PROTECT EXISTING ELEMENTS AND SYSTEMS. REPAIR TO EXISTING CONSTRCUTION DUE TO DAMAGE CAUSED BY PERFORMING THE WORK SHALL BE PERFORMED AT NO COST TO THE OWNER.
5. HAZARDOUS MATERIALS - THE CONTRACTOR SHALL IMMEDIATELY REPORT TO ARCHITECT, OWNER AND AUTHORITY HAVING JURISDICTION ANY HAZARDOUS OR TOXIC MATERIALS DISCOVERED.
6. WHERE OPENINGS ARE CREATED IN EXISTING CONSTRUCTION TO REMAIN, VISIBLE EDGES OF THE OPENING SHALL BE FINISHED TO A MATCHING CONDITION OF SIMILAR EXISTING OPENINGS IN THE AREA OF WORK.
7. WHERE DOORS OR WINDOWS OR SYSTEMS IN AN EXISTING OPENING ARE REMOVED, REMOVE ALL NON STRCUTURAL ELEMENTS IN A MANNER THAT WILL ALLOW FOR REQUIRED INFILL WALLS ALIGNED TO BE FINISHED AND MATCHED FLUSH ON BOTH VISIBLE SIDES OF ADJACENT WALLS U.O.N.
8. WHERE EXISTING MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND MED GAS SYSTEMS ARE AFFECTED BY DEMOLITION WORK, THE SERVICES SHALL BE REMOVED TO A POINT WHERE THEY CAN BE CAPPED AND TERMINATED U.O.N.
9. WHERE NEW FINISHES ARE SCHEDULED FOR EXISTING OR RENOVATED SPACES, REMOVE EXISTING FINISHES AND PREPARE SUBSTRATES AS REQUIRED TO RECEIVE NEW FINISHES AS SCHEDULED. PREPARATION INCLUDES BUT IS NOT LIMITED TO: PATCHING AND/ OR LEVELING OF FLOORS, SKIM COATING OF GYPSUM AND PLASTER SURFACES, SANDING OF NON-PRE-FINISHED METALS.
10. CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF WORK OF OTHER TRADES SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. REFER TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND MEDICAL GAS DRAWINGS AS APPLICABLE. SUCH CUTTING AND PATCHING INCLUDES BUT IS NOT LIMITED TO ROOF PENETRATIONS AND FLASHINGS, CEILING REMOVAL AND REPLACEMENT, DRYWALL AND MASONRY PARTITIONS, CONCRETE FLOORS ETC.
11. WHERE DEMOLITION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, PROVIDE TEMPORARY SUPPORTS. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY FOUND CONDITION WHICH WOULD REPRESENT A HAZARDOUS CONDITION TO THE STRUCTURE OR ITS OCCUPANTS BEFORE PROCEEDING. DO NOT PERFORM STRUCTURAL DEMOLITION UNTIL APPROVED MEANS OF SUPPORT IS INSTALLED.
12. REMOVE AND REINSTALL EXISTING CEILING GRID AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL, ELECTRICAL, FIRE PROTECTION AND PLUMBING EXISTING FIXTURES - EXISTING FIXTURES SHALL BE UTILIZED WHERE SHOWN. CLEAN FIXTURES PRIOR TO REINSTALLATION. REMAINING EXISTING FIXTURES NOT RE-USED AND IN WORKING CONDITION SHALL BE TURNED OVER TO THE OWNER.
13. WHERE EXISTING CEILINGS ARE REMOVED, TAKE CARE TO REMOVE ONLY THAT PORTION SO INDICATED TO BE REMOVED.
14. FOR AREAS WHERE WORK REQUIRES ACCESS ABOVE THE CEILING, IN THESE AREAS REMOVE AND REPLACE THE CEILING AS NECESSARY FOR ACCESS TO WORK. MATCH EXISTING CEILING AND FINISHES UPON COMPLETION OF WORK IN THESE AREAS.
15. FLOORS - CONTRACTOR SHALL FIELD VERIFY LEVELNESS OF EXISTING FLOOR SLABS AFTER COMPLETION OF DEMOLITION WORK AND BRING TO THE ARCHITECTS ATTENTION ANY DEVIATION FROM SPECIFIED TOLERANCES. ANY CORRECTIVE WORK SHALL BE ACCOMPLISHED PRIOR TO NEW CONSTRUCTION.
16. EQUIPMENT COORDINATION - CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING FINISHES, FURNITURE, AND EQUIPMENT TO REMAIN IN AREAS WHERE CONSTRUCTION FOR THIS PROJECT OCCURS. OWNER AND CONTRACTOR SHALL COORDINATE PRIOR TO CONSTRCUTION FOR ANY SYSTEM/ DEVICE/ EQUIPMENT THE OWNER PREFERS TO MOVE INCLUDING ITS STORAGE REQUIREMENTS.
17. DEMOLITION NOTES - NUMBERED NOTES BELOW ARE SUMMARIZED FOR SYSTEMS TO BE DEMOLISHED. THESE ARE NOT CONSIDERED TO BE ALL-INCLUSIVE OR COMPLETE IN AND OF THEMSELVES. PERFORM ADDITIONAL DEMOLITION THAT MIGHT REASONABLY BE REQUIRED FOR PREPARATION OF INSTALLING NEW WORK AND SPECIFIED FINISHES; COORDINATE w/OWNER.

DEMOLITION DRAWING NOTES: D-_

1. REMOVE INTERIOR WALLS, OR PORTION OF WALLS, INCLUDING ALL INTERIOR DOORS AND INTERIOR GLAZED FRAMES IN DEMOLISHED PORTION OF WALLS. PREPARE AREA FOR NEW CONSTRUCTION.
2. REMOVE DOOR AND PREP OPENING FOR NEW STOREFRONT GLAZED FRAME AND/OR DOOR.
3. REMOVE ALL EXISTING CASEWORK AND COUNTERTOPS.
4. REMOVE ALL EXISTING TOILET ROOM FIXTURES.
5. REMOVE ALL TOILET PARTITIONS.
6. REMOVE ALL FLOOR FINISHES AND SCRAPE/GRIND CONCRETE SLAB CLEAN OF ALL ADHESIVES. PREPARE SURFACE TO RECEIVE NEW FLOOR FINISH AS SPECIFIED, INCLUDING PATCHING.
7. CUT AND REMOVE PORTION OF EXISTING CONCRETE SLAB-ON-GRADE FOR PLUMBING RENOVATION. (SEE PLUMBING DRAWINGS)
8. REMOVE ALL CEILINGS, GYPSUM WALL BOARD SOFFITS AND BATT INSULATION ABOVE. THIS COMMENT APPLIES TO ALL AREAS WITHIN THE EXTENTS OF EXISTING EXTERIOR WALLS.
9. REMOVE WINDOW(S) AND PREPARE OPENING FOR NEW WINDOW/STOREFRONT SYSTEM.
10. DEMO PORTION OF WALL ABOVE AND/OR BELOW WINDOW AND PREPARE NEW OPENING FOR NEW WIDOW/STOREFRONT SYSTEM - REFER TO PLANS AND INTERIOR ELEVATIONS FOR NEW WINDOW LOCATIONS, DIMENSIONS AND TYPES. PRECAUTION TO BE TAKEN TO SALVAGE EXISTING BRICKS IN VENEER FOR USE TO TOOTH BACK BRICKS @ JAMB CONDITION IN NEW WINDOW ASSEMBLY.
11. REMOVE EXISTING DOOR AWNING/CANOPY. CLEAN ALL SURFACES TO REMOVE ANY RESIDUAL DEBRIS, INCLUDING, BUT NOT LIMITED TO SEALANT AND GLUE. PATCH AND REPAIR EXTERIOR FINISHES AS NECESSARY TO MATCH EXISTING.
12. ADD ALTERNATE #2 - REMOVE EXISTING DOOR OR WINDOW ASSEMBLY AND PREPARE OPENING FOR NEW DOOR/WINDOW/STOREFRONT SYSTEM(S).
13. REMOVE EXISTING DIMENSIONAL SIGNAGE AND PREPARE SURFACE TO RECEIVE NEW SIGNAGE. REMOVE ANY RESIDUAL DEBRIS INCLUDING GLUE FROM SURFACE PRIOR TO INSTALLATION OF NEW SIGN.
14. REMOVE MECHANICAL LOUVER AS PER REQUIREMENTS SHOWN ON MECHANICAL DRAWINGS.
15. REMOVE PREMANUFACTURED TRIM AND CLEAN WALL SURFACEOF ALL RESIDUAL DEBRIS, INCLUDING GLUE. SEAL ANY CRACKS/HOLES.
16. REMOVE EXISTING GYPSUM WALL BOARD FROM SIDE OF WALL ASSEMBLY INDICATED.
17. REMOVE ANY APPLIANCES AND CONNECTIONS FOR SERVICES TO PREPARE FOR NEW CONSTRUCTION.
18. REMOVE BOOK THEFT DETECTION SYSTEM. COORDINATE REMOVAL WITH OWNER FOR SALVAGING ANY EXISTING SYSTEM COMPONENTS. PATCH AND PREPARE FLOOR SURFACE FOR NEW CONSTRUCTION.
19. REMOVE EXISTING DOOR ASSEMBLY AND PREPARE WALL TO RECEIVE NEW DOOR AS INDICATED IN THESE DOCUMENTS.
20. REMOVE EXISTING WINDOW STOOLS AND BLINDS @ ALL WINDOW OPENINGS AS PART OF BASE BID AND PREPARE SURFACES FOR NEW WINDOW STOOL AND SHADE ASSEMBLY, AS PER THESE DOCUMENTS.
21. SAW CUT PORTION OF SLAB AS REQUIRED, IN COORDINATION w/ELECTRICAL FLOOR BOXES. PATCH WITH NEW SLAB ON GRADE AND FINISH FLOOR TO PRESENT A UNIFORM FLOOR SURFACE FOR INSTALLING SCHEDULED FLOOR FINISHES. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION ON FLOOR BOXES AND OTHER RELATED REQUIREMENTS
22. REMOVE ALL EXISTIG GYPSUM WALL BOARD FROM FURRING AT EXTERIOR WALL ASSEMBLY AND PREPARE THE FURRING TO RECEIVE NEW RIGID INSULATION, AS SPECIFIED, AND NEW GYPSUM WALL BOARD AS INDICATED ON WALL SECTIONS IN THESE DOCUMENTS
23. DEMO PORTION OF WALL BELOW EXIST. WINDOW OPENING AND PREPARE OPEING FOR NEW DOOR ASSEMBLY. TAKE PRECAUTION TO SALVAGE EXISTIG BRICKS FOR RE-USE AND TOOTH IN AT BRICK CONDITIONS

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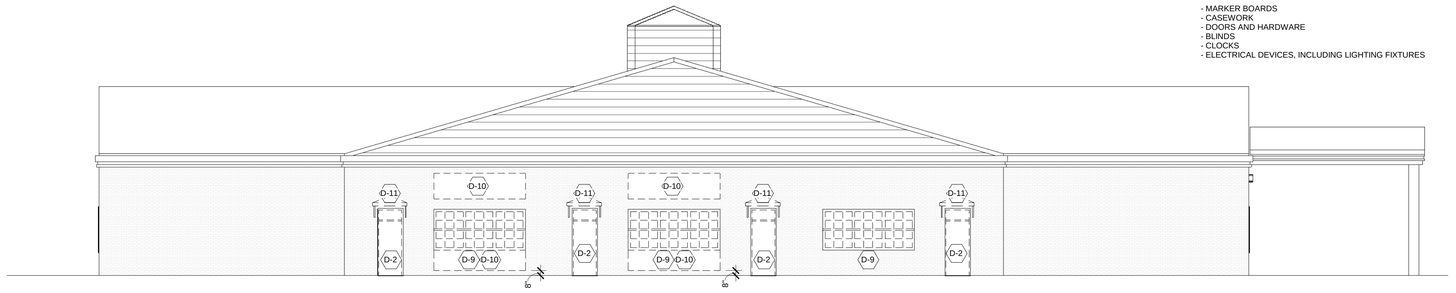
Revisions

No.	Date	Revision Description
2	01/28/2020	ADDENDUM 2

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES

ARCHITECTURAL DEMOLITION PLAN

AD-101



4 EXIST. NORTH ELEVATION - DEMO
1/8" = 1'-0"

THE FOLLOWING ITEMS SHOULD BE SALVAGED FOR THE OWNER TO REUSE AS REQUIRED:

- MARKER BOARDS
- CASEWORK
- DOORS AND HARDWARE
- BLINDS
- CLOCKS
- ELECTRICAL DEVICES, INCLUDING LIGHTING FIXTURES

DEMOLITION DRAWING NOTES: D-_

1. REMOVE INTERIOR WALLS, OR PORTION OF WALLS, INCLUDING ALL INTERIOR DOORS AND INTERIOR GLAZED FRAMES IN DEMOLISHED PORTION OF WALLS. PREPARE AREA FOR NEW CONSTRUCTION.
2. REMOVE DOOR AND PREP OPENING FOR NEW STOREFRONT GLAZED FRAME AND/OR DOOR.
3. REMOVE ALL EXISTING CASEWORK AND COUNTERTOPS.
4. REMOVE ALL EXISTING TOILET ROOM FIXTURES.
5. REMOVE ALL TOILET PARTITIONS.
6. REMOVE ALL FLOOR FINISHES AND SCRAPE/GRIND CONCRETE SLAB CLEAN OF ALL ADHESIVES. PREPARE SURFACE TO RECEIVE NEW FLOOR FINISH AS SPECIFIED, INCLUDING PATCHING.
7. CUT AND REMOVE PORTION OF EXISTING CONCRETE SLAB-ON-GRADE FOR PLUMBING RENOVATION. (SEE PLUMBING DRAWINGS)
8. REMOVE ALL CEILINGS, GYPSUM WALL BOARD SOFFITS AND BATT INSULATION ABOVE. THIS COMMENT APPLIES TO ALL AREAS WITHIN THE EXTENTS OF EXISTING EXTERIOR WALLS.
9. REMOVE WINDOW(S) AND PREPARE OPENING FOR NEW WINDOW/STOREFRONT SYSTEM.
10. DEMO PORTION OF WALL ABOVE AND/OR BELOW WINDOW AND PREPARE NEW OPENING FOR NEW WIDOW/STOREFRONT SYSTEM - REFER TO PLANS AND INTERIOR ELEVATIONS FOR NEW WINDOW LOCATIONS, DIMENSIONS AND TYPES. PRECAUTION TO BE TAKEN TO SALVAGE EXISTING BRICKS IN VENEER FOR USE TO TOOTH BACK BRICKS @ JAMB CONDITION IN NEW WINDOW ASSEMBLY.
11. REMOVE EXISTING DOOR AWNING/CANOPY. CLEAN ALL SURFACES TO REMOVE ANY RESIDUAL DEBRIS, INCLUDING, BUT NOT LIMITED TO SEALANT AND GLUE. PATCH AND REPAIR EXTERIOR FINISHES AS NECESSARY TO MATCH EXISTING.
12. ADD ALTERNATE #2 - REMOVE EXISTING DOOR OR WINDOW ASSEMBLY AND PREPARE OPENING FOR NEW DOOR/WINDOW/STOREFRONT SYSTEM(S).
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14. REMOVE MECHANICAL LOUVER AS PER REQUIREMENTS SHOWN ON MECHANICAL DRAWINGS.
15. REMOVE PREMANUFACTURED TRIM AND CLEAN WALL SURFACEOF ALL RESIDUAL DEBRIS, INCLUDING GLUE. SEAL ANY CRACKS/HOLES.
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17. REMOVE ANY APPLIANCES AND CONNECTIONS FOR SERVICES TO PREPARE FOR NEW CONSTRUCTION.
18. REMOVE BOOK THEFT DETECTION SYSTEM. COORDINATE REMOVAL WITH OWNER FOR SALVAGING ANY EXISTING SYSTEM COMPONENTS. PATCH AND PREPARE FLOOR SURFACE FOR NEW CONSTRUCTION.
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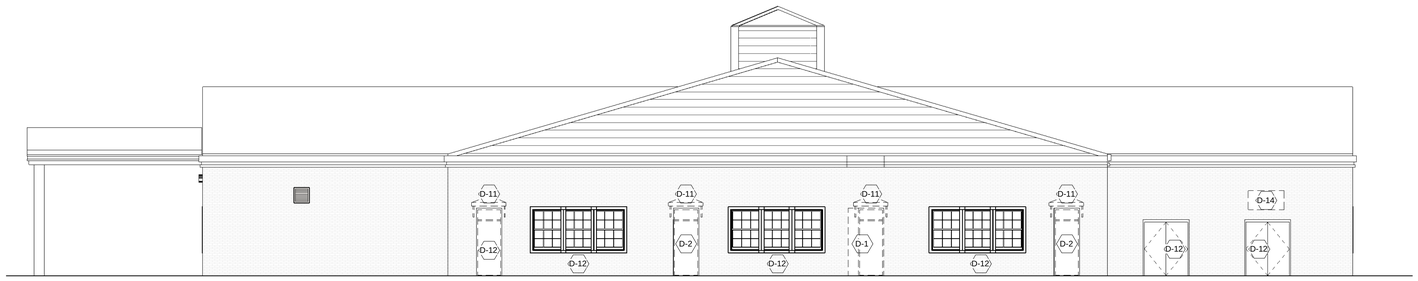
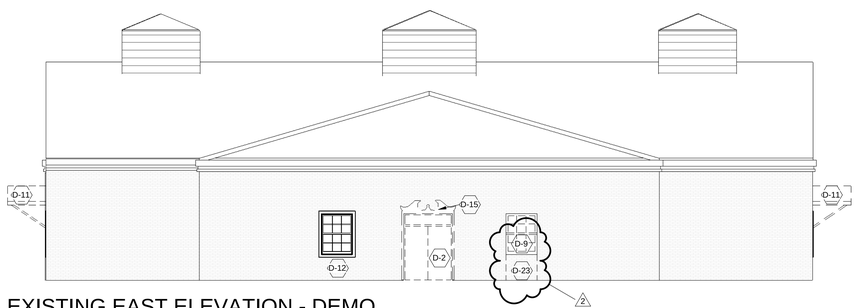
23. DEMO PORTION OF WALL BELOW EXIST. WINDOW OPENING AND PREPARE OPEING FOR NEW DOOR ASSEMBLY. TAKE PRECAUTION TO SALVAGE EXISTIG BRICKS FOR RE-USE AND TOOTH IN AT BRICK CONDITIONS

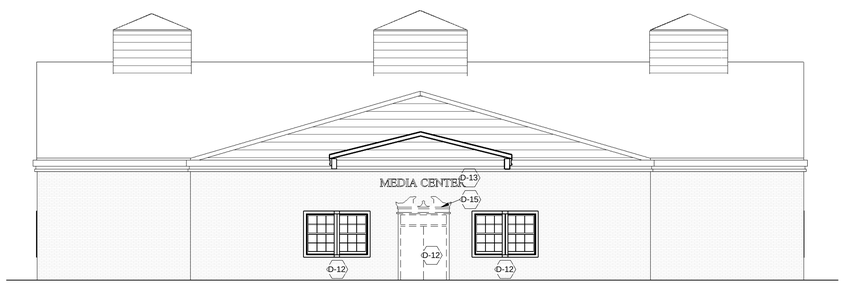
2



3 EXIST. SOUTH ELEVATION - DEMO
1/8" = 1'-0"



2 EXISTING EAST ELEVATION - DEMO
1/8" = 1'-0"



1 EXISTING WEST ELEVATION - DEMO
1/8" = 1'-0"

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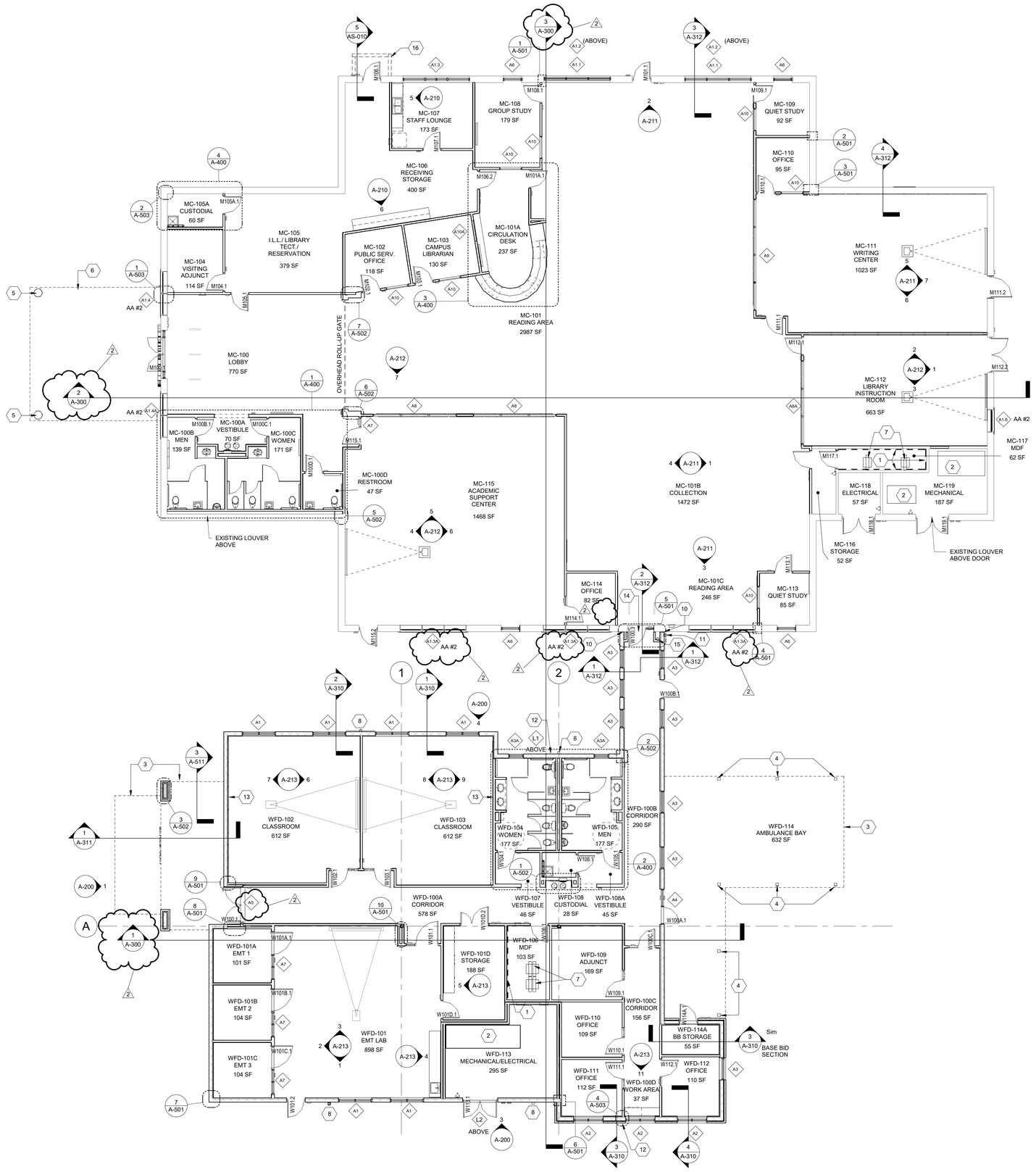
2	01/28/2020	ADDENDUM 2

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

NAME: Phil Trezza, LIC. AR0017760

EXISTING EXTERIOR ELEVATIONS

AD-102



FLOOR PLAN - BASE BID PLAN

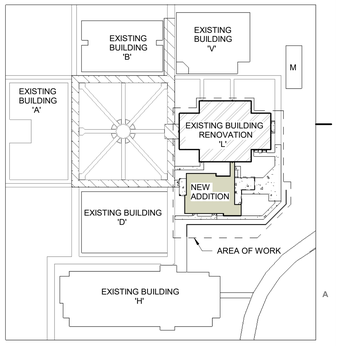
1/8" = 1'-0"

GENERAL NOTES:

1. FINISHES - ALL EXISTING FINISHES SHALL REMAIN, UNLESS SCHEDULED FOR NEW. CONTINUE EXISTING FINISHES TO REMAIN INTO NEW EXTENDED AREAS THAT ARE ADJACENT. PATCH & REPAIR EXISTING TO MATCH NEW. PREPARE SUBSTRATES TO RECEIVE NEW FINISHES WHERE SCHEDULED.
2. FINISH ALL PATCHED OR EXTENDED WALLS TO NEAREST CHANGE OF DIRECTION, WALL TERMINATION, OR INTERSECTION.
3. CONFLICTS - ANY CONFLICT FOUND WITH EXISTING CONDITIONS AND REQUIREMENTS FOR NEW CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.

KEY NOTES: NUMBERED ITEMS (NN)

1. PROVIDE 3/4" FIRE RATED PLYWOOD FROM FLOOR TO 8'-0" A.F.F., OVER GYPSUM WALL BOARD. COUNTERSINK ALL SCREW HEADS AND PAINT PLYWOOD WITH FIRE RATED PAINT, COLOR AS INDICATED IN FINISH SCHEDULE.
2. MECHANICAL EQUIPMENT PAD; COORDINATE w/MECHANICAL AND STRUCTURAL DRAWINGS
3. NEW OVERHEAD CANOPY/ROOF - REFER TO AS-010 AND ROOF PLAN FOR DETAILS.
4. NEW CANOPY COLUMNS - REFER TO AS-010 FOR DETAILS - TYPICAL
5. EXISTING ENTRY COLUMN - TYPICAL
6. EXISTING ROOF OVERHEAD
7. DATA RACK EQUIPMENT; COORDINATE w/TECHNOLOGY DRAWINGS
8. NEW DOWNSPOUTS
9. EXISTING DOWN SPOUTS
10. 1" EXPANSION JOINT - SEE SHEET G-021 FOR DETAILS.
11. ROOF DRAIN OVERFLOW SPOUT
12. HOSE BIB - REFER TO PLUMBING DRAWINGS FOR DETAILS
13. ACOUSTICAL WALL PANELS
14. CONCRETE SLAB CONSTRUCTION JOINT - COORDINATE WITH STRUCTURE AND FINISH REQUIREMENTS
15. PRIMARY RAIN LEADER REFER TO PLUMBING DRAWINGS FOR DETAILS.
16. NEW CANOPY ABOVE



KEY LEGEND - BASE BID

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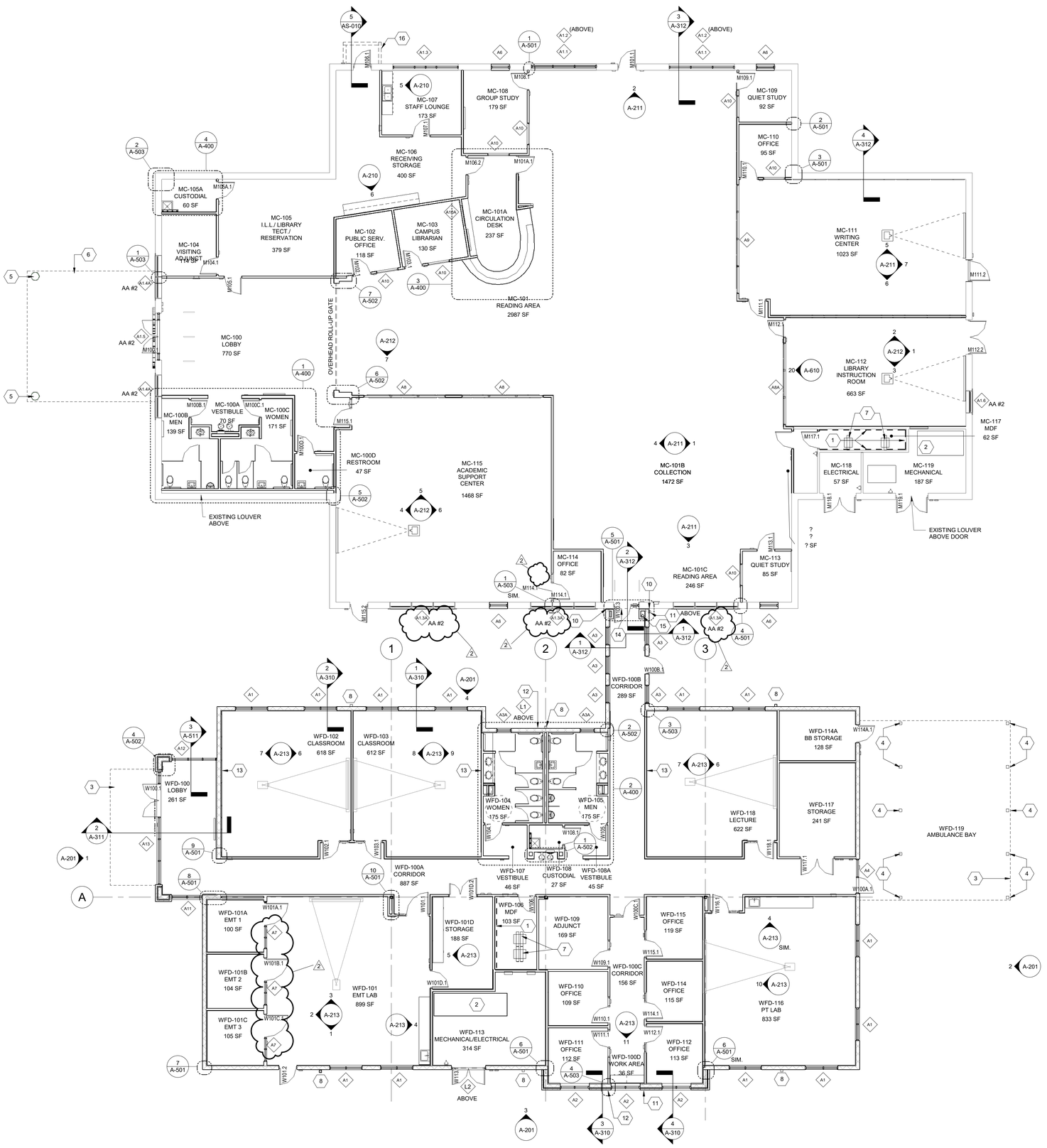
NAME: Phil Trezza, LIC. AR0017760

FLOOR PLAN - BASE BID PLAN

A-100



FIRST FLOOR PLAN - ADD ALTERNATE #1

1/8" = 1'-0"

GENERAL NOTES:

1. FINISHES - ALL EXISTING FINISHES SHALL REMAIN, UNLESS SCHEDULED FOR NEW. CONTINUE EXISTING FINISHES TO REMAIN INTO NEW EXTENDED AREAS THAT ARE ADJACENT. PATCH & REPAIR EXISTING TO MATCH NEW. PREPARE SUBSTRATES TO RECEIVE NEW FINISHES WHERE SCHEDULED.
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KEY NOTES: NUMBERED ITEMS (NN)

1. PROVIDE 3/4" FIRE RATED PLYWOOD FROM FLOOR TO 8'-0" A.F.F., OVER GYPSUM WALL BOARD. COUNTERSINK ALL SCREW HEADS AND PAINT PLYWOOD WITH FIRE RATED PAINT, COLOR AS INDICATED IN FINISH SCHEDULE.
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3. NEW OVERHEAD CANOPY/ROOF - REFER TO AS-010 AND ROOF PLAN FOR DETAILS.
4. NEW CANOPY COLUMNS - REFER TO AS-010 FOR DETAILS - TYPICAL
5. EXISTING ENTRY COLUMN - TYPICAL
6. EXISTING ROOF OVERHEAD
7. DATA RACK EQUIPMENT; COORDINATE w/TECHNOLOGY DRAWINGS
8. NEW DOWNSPOUTS
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12. HOSE BIB - REFER TO PLUMBING DRAWINGS FOR DETAILS
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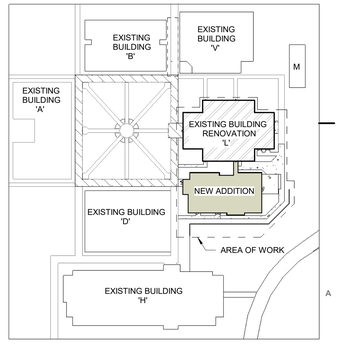
15. PRIMARY RAIN LEADER REFER TO PLUMBING DRAWINGS FOR DETAILS.
16. NEW CANOPY ABOVE



KEY LEGEND ADD ALT #1

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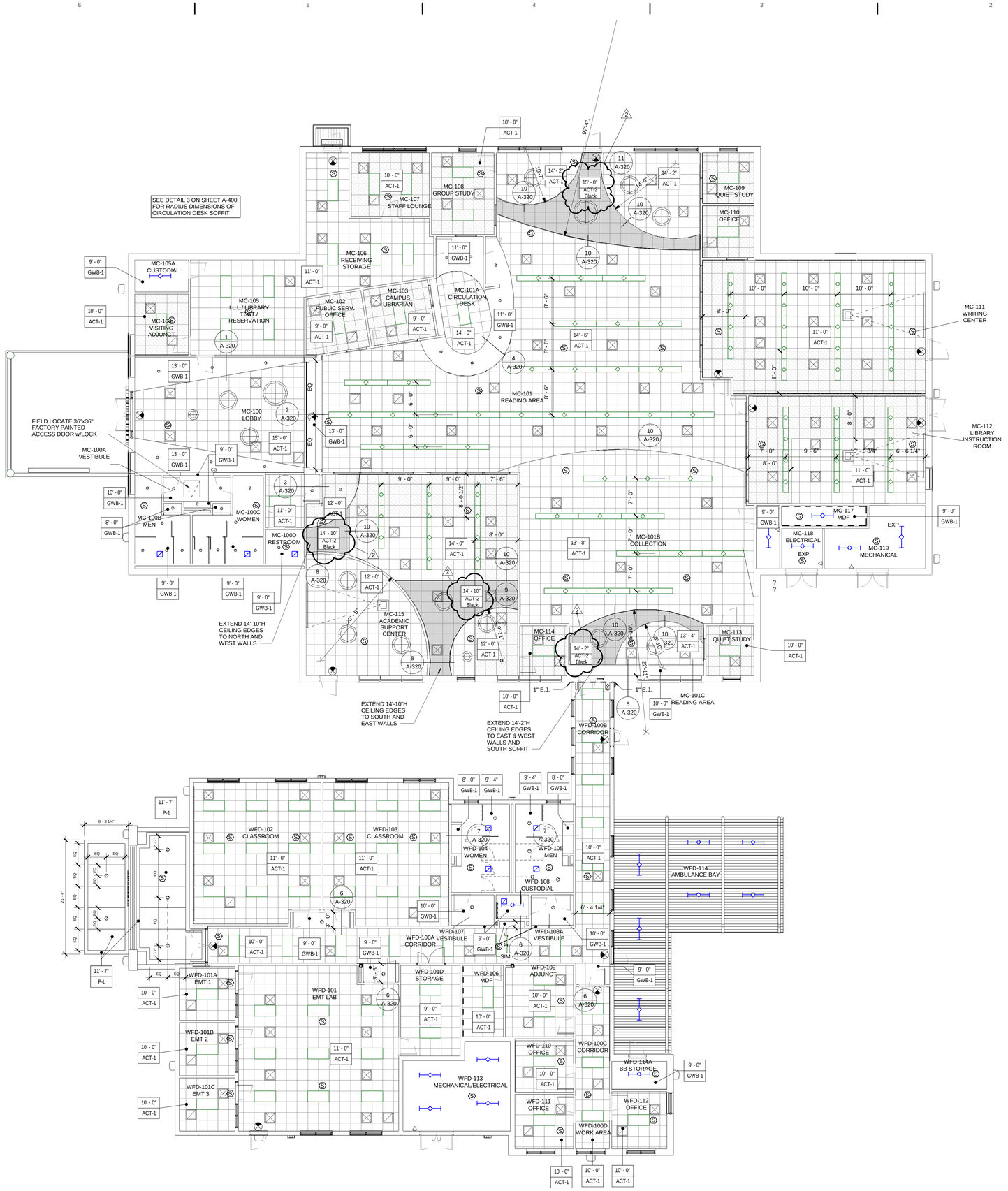
NAME: Phil Trezza, LIC. AR0017760

FLOOR PLAN - ADD ALT #1

A-101



REFLECTED CEILING PLAN - BASE BID PLAN

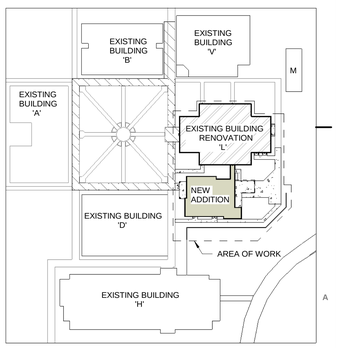
1/8" = 1'-0"

REFLECTED CEILING LEGEND

- LAY-IN CEILING SYSTEM ACT-[--]
- UNFACED FIBERGLASS BATT INSULATION (SOUND ATTENUATING) LAID OVER ACOUSTICAL TILE CEILING (SEE PLAN FOR EXTENTS)
- GYPSUM WALL BOARD CEILING SYSTEM GWB-[--]
- CEMENT PLASTER CEILING SYSTEM CP-[--]
- 2X4 RECESSED LUMINAIRE
- 1X4 RECESSED LUMINAIRE
- SURFACE MOUNTED STRIP LUMINAIRE
- TAPE/ TRACK / LINEAR/ SUSPENDED BOX LIGHTING
- RECESS CAN DOWNLIGHT. SIZE VARIES
- PENDANT LIGHT. SIZE AND TYPE VARIES
- WALL LIGHT FIXTURE. SIZE AND TYPE VARIES
- MINI PENDANT LIGHT. SIZE AND TYPE VARIES
- ILLUMINATED EXIT SIGN, SINGLE FACE, W/ DIRECTION ARROW (REFER TO ELECTRICAL DRAWINGS).
- SPRINKLER HEAD (REFER TO FP DRAWINGS).
- CONCEALED SPRINKLER HEAD (REFER TO FP DRAWINGS).
- DIFFUSER GRILLE (REFER TO MECH. DRAWINGS).
- RETURN AIR GRILLE (REFER TO MECH. DRAWINGS).
- EXHAUST GRILLE (REFER TO MECH. DRAWINGS).
- AP-[--] ACCESS PANEL (SIZE PER NOTES AND OR MECHANICAL DRAWINGS)
- S CEILING MOUNTED SPEAKER STROBE (REFER TO FIRE ALARM DRAWINGS).
- 88'-8-1/2" Type Name INDICATES CEILING HEIGHT AFF IN FEET AND INCHES & INDICATES CEILING TYPE
- EXP. EXPOSED STRUCTURE (NO CEILING) GWB ON THIS ROOM SIDE OF DEMISING PARTITIONS SHALL EXTEND TO UNDERSIDE OF DECK ABOVE. ADDITIONAL REQUIREMENTS MAY BE NECESSARY IF PARTITION INDICATES A FIRE, SMOKE OR SOUND TRANSMISSION RATING

NOTES

1. REFER TO MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION DRAWINGS FOR ADDITIONAL CRITERIA ON ABOVE SYSTEMS.
2. CENTER SYSTEMS IN CEILINGS ADJACENT TO DOORS ON CENTER OF DOORS OR CENTER OF NEAREST LAY-IN CEILING TILES
3. IT IS THE INTENT OF THE CEILING DESIGN TO HAVE VISIBLE DEVICES ALIGNED AND TO BE CENTERED ON CENTER OF LAY-IN CEILING SYSTEMS U.O.N.
4. GRILLES, DIFFUSERS, REGISTERS - COORDINATE REFLECTED CEILING PLANS AND MECHANICAL PLANS.
5. FOR FIXTURES - COORDINATE REFLECTED CEILING PLAN AND ELECTRICAL LIGHTING PLAN.
6. SUPPORT - DO NOT HANG SYSTEMS FROM EXISTING OR NEW METAL DECKING. CONNECT OR SUSPEND ONLY FROM STRUCTURAL MEMBERS OR MEMBERS THAT ARE SECURED TO THE STRUCTURE.
7. ACOUSTICAL TILE SUPPORT - SMOKE DETECTORS, SIGNAGE, SPEAKERS, ETC. ARE ATTACHED TO CEILING TILES, PROVIDE CROSS BRACE SUPPORT SECURED TO EACH SIDE OF ITEM. BRACE SHALL BE LOCATED TO PROVIDE FULL SUPPORT OF ITEM INDEPENDENTLY OF TILE WITHOUT ANY SAG, BOW OR TWIST OF CEILING OR GRID.
8. ROLLER SHADES - REFER TO FF&E PLANS FOR LOCATIONS AND TYPES.



KEY LEGEND - BASE BID

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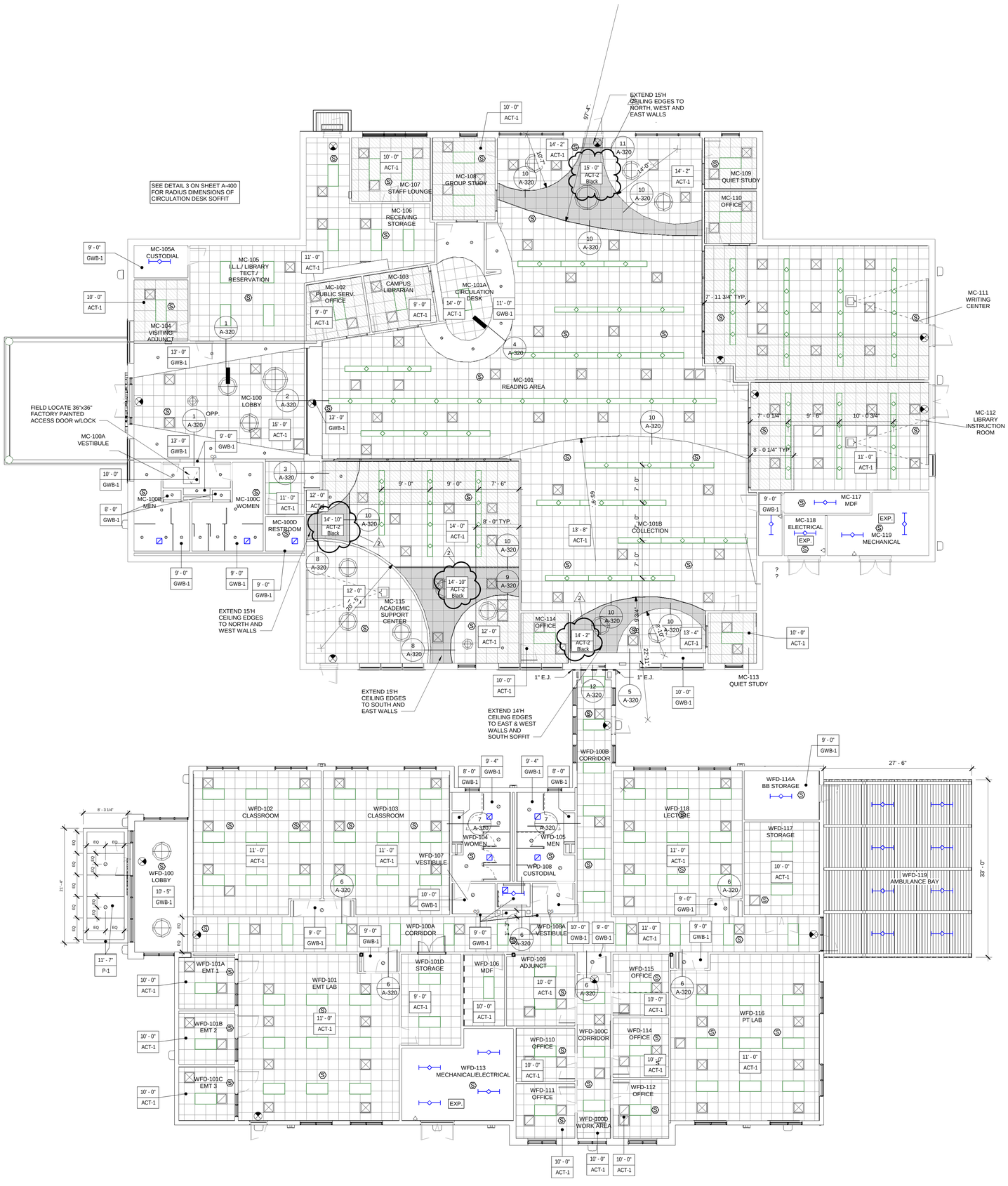
REFLECTED CEILING PLAN - BASE BID PLAN

A-130



REFLECTED CEILING PLAN - ADD ALT #1

1/8" = 1'-0"

REFLECTED CEILING LEGEND

- LAY-IN CEILING SYSTEM ACT-[--]
- UNFACED FIBERGLASS BATT INSULATION (SOUND ATTENUATING) LAID OVER ACOUSTICAL TILE CEILING (SEE PLAN FOR EXTENTS)
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- 1X4 RECESSED LUMINAIRE
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- TAPE/ TRACK / LINEAR/ SUSPENDED BOX LIGHTING
- RECESS CAN DOWNLIGHT. SIZE VARIES
- PENDANT LIGHT. SIZE AND TYPE VARIES
- WALL LIGHT FIXTURE. SIZE AND TYPE VARIES
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- CEILING MOUNTED SPEAKER STROBE (REFER TO FIRE ALARM DRAWINGS).
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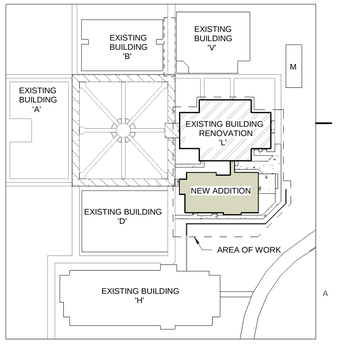
7. ACOUSTICAL TILE SUPPORT - SMOKE DETECTORS, SIGNAGE, SPEAKERS, ETC. ARE ATTACHED TO CEILING TILES, PROVIDE CROSS BRACE SUPPORT SECURED TO EACH SIDE OF ITEM. BRACE SHALL BE LOCATED TO PROVIDE FULL SUPPORT OF ITEM INDEPENDENTLY OF TILE WITHOUT ANY SAG, BOW OR TWIST OF CEILING OR GRID.
8. ROLLER SHADES - REFER TO FF&E PLANS FOR LOCATIONS AND TYPES.



N

KEY LEGEND ADD ALT #1

N.T.S

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ST. JOHNS RIVER STATE COLLEGE
LIBRARY RENOVATION & ADDITION
283 COLLEGE DRIVE, ORANGE PARK, FL 32065
CONSTRUCTION DOCUMENTS

Comm. No:	18064.00
Date:	01/02/2020
Drawn by:	TPP
Checked by:	ETV

Revisions

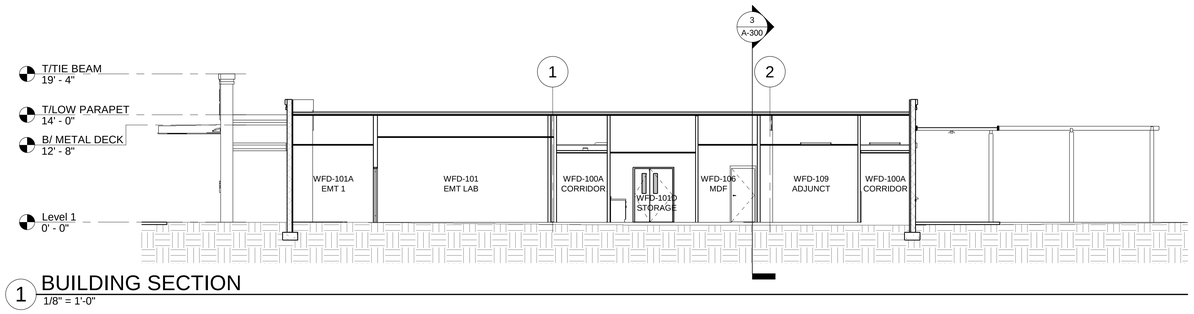
No.	Date	Revision Description
2	01/28/2020	ADDENDUM 2

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

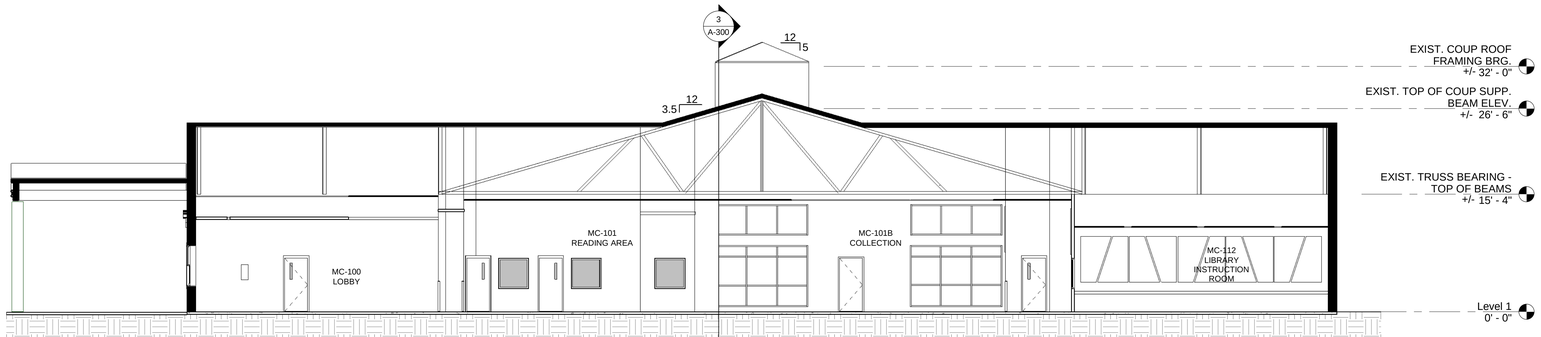
NAME: Phil Trezza, LIC. AR0017760

REFLECTED CEILING PLAN - ADD ALT #1

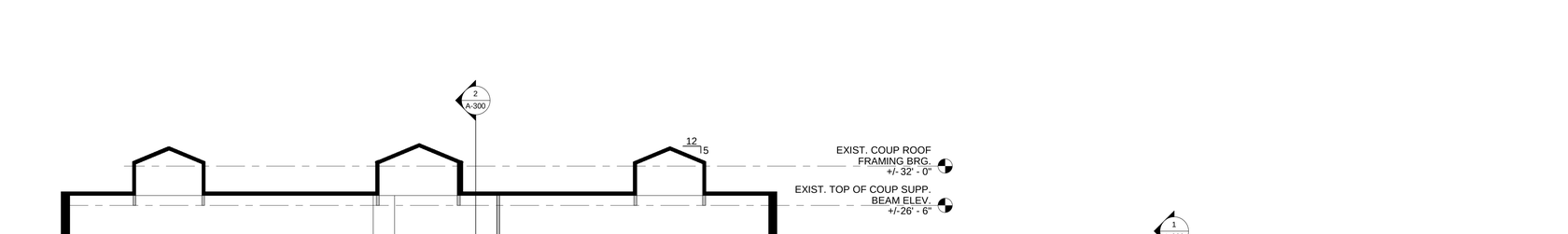
A-131



1 BUILDING SECTION
1/8" = 1'-0"



2 BUILDING SECTION
1/8" = 1'-0"



3 BUILDING SECTION
1/8" = 1'-0"

GENERAL NOTES:

BUILDING SECTIONS ARE PROVIDED TO SHOW ELEVATION HEIGHTS AND THE GRAPHIC RELATIONSHIPS BETWEEN BUILDING SPACES. REFER TO FLOOR PLANS, REFLECTED CEILING PLANS AND WALL SECTIONS FOR DETAILED INFORMATION.

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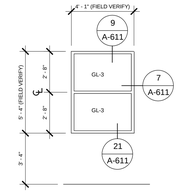
TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

NAME: Phil Trezza, LIC. AR0017760

BUILDING SECTIONS

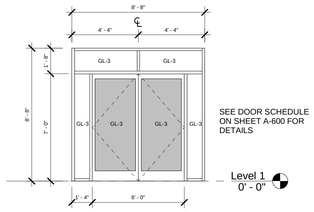
2

A-300



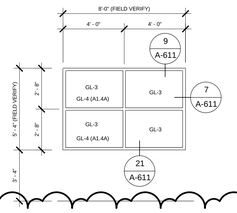
A1.6 ADD ALT #2

1/4" = 1'-0"



A1.5 ADD ALT #2

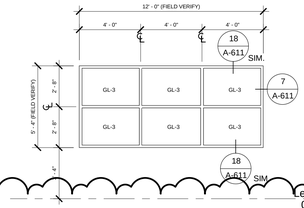
1/4" = 1'-0"



2

A1.4 (BASE BID) A1.4A (ADD ALT #2)

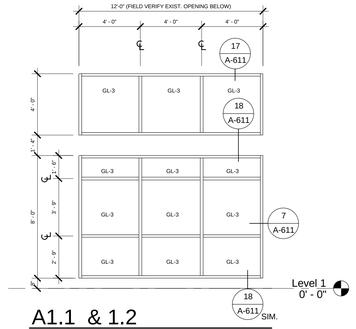
1/4" = 1'-0"



2

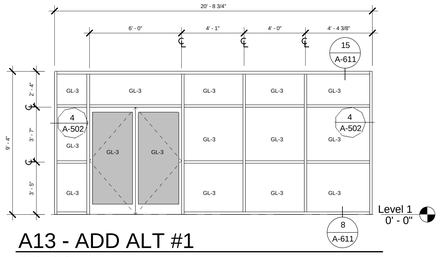
A1.3 (BASE BID) A1.3A ADD ALT #2

1/4" = 1'-0"



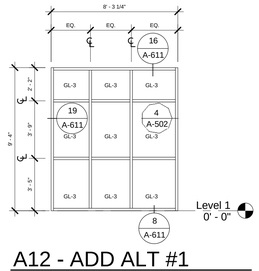
A1.1 & 1.2

1/4" = 1'-0"



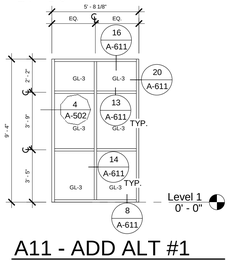
A13 - ADD ALT #1

1/4" = 1'-0"



A12 - ADD ALT #1

1/4" = 1'-0"

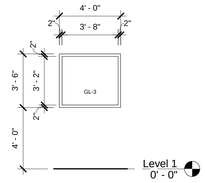


A11 - ADD ALT #1

1/4" = 1'-0"

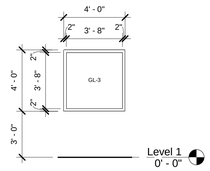
GENERAL NOTES:

1. ALL FRAMES SHOWN TO BE ALUMINUM
2. REFER TO SHEET A-600 FOR GLAZING SCHEDULE
3. REFER TO SHEET A-611 FOR GLAZING DETAILS
4. COORDINATE ROUGH OPENING SIZES FOR EXTERIOR WINDOWS IN THE FIELD



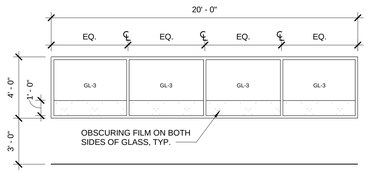
A10A

1/4" = 1'-0"



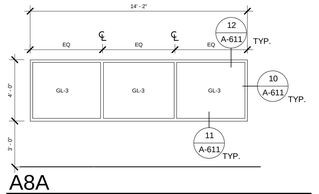
A10

1/4" = 1'-0"



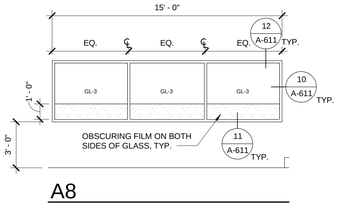
A9

1/4" = 1'-0"



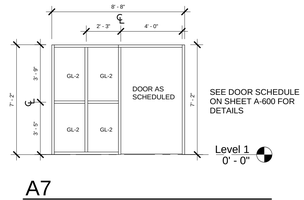
A8A

1/4" = 1'-0"



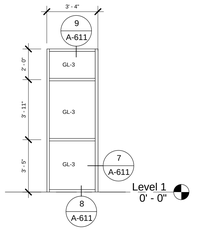
A8

1/4" = 1'-0"



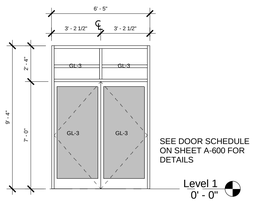
A7

1/4" = 1'-0"



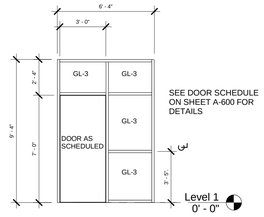
A6

1/4" = 1'-0"



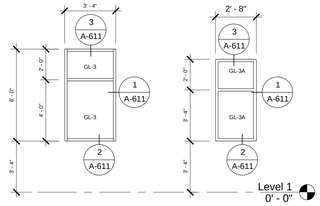
A5

1/4" = 1'-0"



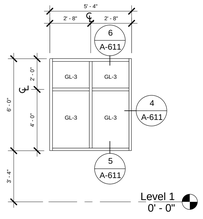
A4

1/4" = 1'-0"



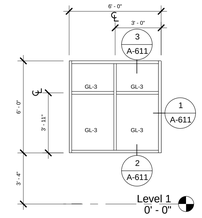
A3 & A3A

1/4" = 1'-0"



A2 (IN BRICK) NEW

1/4" = 1'-0"



A1 (STUCCO) NEW

1/4" = 1'-0"

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2	01/28/2020	ADDENDUM 2

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

NAME: Phil Trezza, LIC. AR0017760

GLAZING ELEVATIONS & DETAILS

A-610

SCHEDULE - FINISHES BASE PLAN

ROOM NO.	ROOM NAME	FLOOR		WALLS				Ceiling Finish	REMARKS
		FINISH	BASE	NORTH	EAST	SOUTH	WEST		
Level 1									
MC-100	LOBBY	WM/LVT	RS	P1	P1	P	P1		1,3,6
MC-100A	VESTIBULE	LVT2	RS	P1	P1	P3/PT3	P1		1,2,3,6
MC-100B	MEN	PT1	PT2/PT3	PT2/3	PT2	PT2	PT2	GWB	2,5,7
MC-100C	WOMEN	PT1	PT2/PT3	PT2/3	PT2	PT2	PT2	GWB	2,5,7
MC-100D	RESTROOM	PT1	PT2	PT2	PT2	PT3	PT2	GWB	2,5,7
MC-101	READING AREA	CP	RS	P1	P4	P1	P1		1,3,6
MC-101A	CIRCULATION DESK	CP3	RS	P1	P1	P1	P3		6
MC-101B	COLLECTION	CP2	RS	--	P1	P1	P1/4		1,3,6
MC-101C	READING AREA	CP3	RS	--	P1	P1	P1		1,3,6
MC-102	PUBLIC SERV. OFFICE	CP3	RS	P1	P2	P1	P1		6
MC-103	CAMPUS LIBRARIAN	CP3	RS	P1	P2	P1	P1		6
MC-104	VISITING ADJUNCT	CP3	RS	P1	P1	P2	P1		6
MC-105	I.L.L./ LIBRARY TECT./ RESERVATION	LVT2	RS	P1	P2	P2	P1		6
MC-105A	CUSTODIAL	CS	RC	P1	P1	P1	P1		6
MC-106	RECEIVING STORAGE	LVT2	RS	P1	P1	P2	P1		6
MC-107	STAFF LOUNGE	LVT	RS	P1	P4	P1	P1		6
MC-108	GROUP STUDY	CP3	RS	P1	P1	P1	P6		6
MC-109	QUIET STUDY	CP3	RS	P1	P4	P1	P1		6
MC-110	OFFICE	CP3	RS	P1	P2	P1	P1		6
MC-111	WRITING CENTER	CP2	RS	P1	P2	P1	P1		3,6
MC-112	LIBRARY INSTRUCTION ROOM	CP2	RS	P1	P2	P1	P1		3,6
MC-113	QUIET STUDY	CP3	RS	P1	P3	P1	P1		6
MC-114	OFFICE	CP3	RS	P2	P1	P1	P1		6
MC-115	ACADEMIC SUPPORT CENTER	CP2	RS	P1	P1	P1	P2		3,4,6
MC-116	STORAGE	CP2	RC	P1	P1	P1	P1		6
MC-117	MDF	CS	RC	P1	P1	P1	P1		6
MC-118	ELECTRICAL	CS	RC	P1	P1	P1	P1	EXP.	8
MC-119	MECHANICAL	CS	RC	P1	P1	P1	P1	EXP.	8
WFD-100A	CORRIDOR	WM/LVT	RS	P3/P6/PT3	P1	P1/P6	P1		1,3,6
WFD-100B	CORRIDOR	WM/LVT	RS	P1	P1	P1	P3		1,6
WFD-100C	CORRIDOR	LVT2	RS	P1	P1	P1	P1		6
WFD-100D	WORK AREA	LVT	RS	P1	P1	P1	P1		6
WFD-101	EMT LAB	RT	RS	P2	P1	P1	P1		1,6
WFD-101A	EMT 1	RT2	RS	P1	P1	P1	P2		6
WFD-101B	EMT 2	RT2	RS	P1	P1	P1	P2		6
WFD-101C	EMT 3	RT2	RS	P1	P1	P1	P2		6
WFD-101D	STORAGE	RT	RS	P1	P1	P1	P1		6
WFD-102	CLASSROOM	LVT	RS	P1	P2	P1	P1		1,3,4,6
WFD-103	CLASSROOM	LVT	RS	P1	P1	P1	P2		1,3,4,6
WFD-104	WOMEN	PT1	PT2/PT3	PT2	PT2	PT2	PT2/3	GWB	2,5,7
WFD-105	MEN	PT1	PT2/PT3	PT2	PT2/3	PT2	PT2	GWB	2,5,7
WFD-106	MDF	CS	RC	P1	P1	P1	P1		6
WFD-107	VESTIBULE	LVT2	RS	P6	P1	P1	P1		6
WFD-108	CUSTODIAL	CS	RC	P1	P1	P1	P1		6
WFD-108A	VESTIBULE	LVT2	RS	P6	P1	P1	P1		6
WFD-109	ADJUNCT	CP3	RS	P2	P1	P2	P1		6
WFD-110	OFFICE	CP3	RS	P2	P1	P1	P1		6
WFD-111	OFFICE	CP3	RS	P1	P1	P1	P2		6
WFD-112	OFFICE	CP3	RS	P1	P2	P1	P1		6
WFD-113	MECHANICAL/ELECTRICAL	CS	RC	P1	P1	P1	P1	EXP.	8
WFD-114A	BB STORAGE	CS	RC	P1	P1	P1	P1		6

SCHEDULE - FINISHES ADD ALTERNATE #1

ROOM NO.	ROOM NAME	FLOOR		WALLS				Ceiling Finish	REMARKS
		FINISH	BASE	NORTH	EAST	SOUTH	WEST		
Level 1									
WFD-100	LOBBY	WM/LVT	RS	P1	P3	P1	P1		1,6
WFD-114	OFFICE	CP3	RS	P2	P1	P1	P1		6
WFD-114A	BB STORAGE	CS	RC	P1	P1	P1	P1		6
WFD-115	OFFICE	CP3	RS	P2	P1	P1	P1		6
WFD-116	PT LAB	RT	RS	P1	P1	P1	P2		1,6
WFD-117	STORAGE	RT	RC	P1	P1	P1	P1		6
WFD-118	LECTURE	LVT	RS	P1	P2	P1	P1		1,3,4,6

2

FINISH SCHEDULE LEGEND

SYMBOL	FIELD	DEFINITION
X	STATUS	EXISTING CONSTRUCTION TO REMAIN
CC	STATUS	CONSTRUCTION LIMITED TO CORRECTION OF SPECIFIC CODE DEFICIENCIES
NC	STATUS	NEW CONSTRUCTION
RF	STATUS	REFURBISHED
RN	STATUS	RENOVATED
1A	AREA	FLOOR (1=FIRST) & AREA (A-AREA)
2-101A	RM. NO	BUILDING/DEPARTMENT PRECEEDING ROOM #
X	FLOOR	EXISTING TO REMAIN
CP	FLOOR	CARPET
CS	FLOOR	CONCRETE SEALED
LVT	FLOOR	LUXURY VINYL TILE
PT	FLOOR	PORCELAIN TILE
RT	FLOOR	RUBBER TILE
X	BASE	EXISTING TO REMAIN
-	BASE	NO BASE REQUIRED
CT	BASE	CERAMIC TILE
PT	BASE	PORCELAIN TILE
RC	BASE	RESILIENT COVE BASE
RS	BASE	RESILIENT MILLWORK BASE
X	WALL	EXISTING TO REMAIN
-	WALL	NO WALL THIS SIDE OF ROOM
CT	WALL	CERAMIC TILE
EP	WALL	EPOXY PAINT
P	WALL	PAINT
PT	WALL	PORCELAIN TILE
ACT-n	CEILING	ACOUSTIC TILE SYSTEM (TYPE VARIES)
CP	CEILING	CEMENT PLASTER
GWB-n	CEILING	GYPSUM WALL BOARD CEILING (TYPE VARIES)
PC-n	CEILING	PANEL CEILING SYSTEM (TYPE VARIES)
WD	CEILING	WOOD
MISC		
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GENERAL NOTES:

1. REFER TO SHEET A-620 FOR ROLLER SHADE MOUNTING DETAILS.

2

FINISH SCHEDULE REMARK NOTES:

1. SEE INTERIOR DESIGN FLOOR PLANS FOR FLOOR PATTERN AND ACCENT PAINT LOCATIONS NOT LIST ON THE FINISH SCHEDULE.
2. SEE TOILET ROOM ELEVATIONS FOR PT WALL PATTERN. PT WALL TILE TO BE INSTALLED IN STACKED VERTICAL PATTERN. FLOOR TILE TO BE INSTALLED IN 1/3" OFFSET RUNNING BOND PATTERN.
3. SEE INTERIOR ELEVATIONS FOR ACCENT PAINT, ACOUSTICAL PANEL, CHAIR RAIL, AND PORCELAIN WALL TILE LOCATIONS.
4. INSTALL CENTER OF CHAIR RAIL AT 30" A.F.F.
5. DRYWALL CEILINGS TO BE PAINTED WITH EPOXY PAINT
6. REFER TO SHEETS A-130 AND A-131 FOR CEILING HEIGHTS AND CEILING FINISHTYPES
7. REFER TO SHEETS A-130 AND A-131 FOR CEILING HEIGHTS
8. EXPOSED STRUCTURE TO BE PAINTED, INCLUDING CONDUITS, PIPING AND DUCTWORK

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TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

NAME: Phil Trezza, LIC. AR0017760

FINISH SCHEDULES AND NOTES

A-700

DEMO NOTES:

DEMOLISH ALL EXISTING HVAC COMPONENTS, EXCEPT FOR THE FOLLOWING:

CAP EXISTING CHILLED WATER CONNECTIONS BACK TO MAIN.
MAIN 5" CHILLED WATER PIPING TO REMAIN.
REMOVE DUCTWORK BACK TO EXISTING DOAS UNIT.
LEAVE DOAS UNIT IN CURRENT LOCATION.

EXISTING 5" CHILLED WATER MAINS ROUTE INTO EXISTING COVERED WALK WAY AND TO ADJACENT BUILDINGS.

TERMINATE WITH WALL CAP. CONFIRM COLOR WITH ARCHITECT.

REPLACE EXISTING EXHAUST LOUVER WITH NEW LOUVER SAME SIZE. VERIFY SIZE IN FIELD. BOD: GREENHECK EHH-601D. PROVIDE NEW PLENUM BOX BEHIND LOUVER AND SLOPE TO EXTERIOR. CONNECT RESTROOM EXHAUST TO PLENUM BOX AND PROVIDE BACKDRAFT DAMPER.

ROUTE NEW 3" CHILLED WATER SUPPLY AND RETURN TO NEW ADDITION MECHANICAL ROOM. CONNECT TO EXISTING 5" CHWS&R. EXISTING 5" MAIN MUST REMAIN IN SERVICE.

REPLACE EXISTING OA LOUVER AT MECHANICAL ROOM AND RE-USE EXISTING OA DUCT AND ELECTRIC DUCT HEATER TO AHU-OA. LOUVER SIZE 48x32. PROVIDE NEW PLENUM BOX BEHIND LOUVER AND SLOPE TO EXTERIOR. BOD: EHH-601D.

EXISTING 5" CHILLED WATER MAINS BELOW GRADE, ROUTED TO EXISTING CHILLED WATER PLANT TO REMAIN.

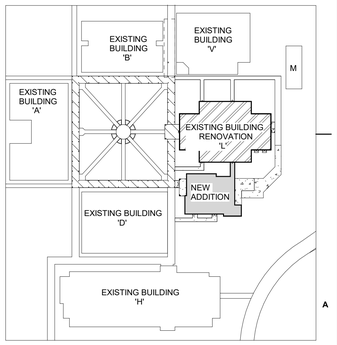
24x12 EA LOUVER. GREENHECK EHH-601D

PROPOSED LOCATION FOR NEW FIRE SERVICE TO BUILDINGS.

NEW OUTSIDE AIR LOUVER ABOVE DOOR. 48x24 BOD: GREENHECK EHH-601D

NEW 3-WAY CHW VALVES AT NEW AHU

1 LEVEL 1 - MECHANICAL
1/8" = 1'-0"



KEY LEGEND - BASE BID
N.T.S

0 4' 8' 24'

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LIBRARY RENOVATION & ADDITION
283 COLLEGE DRIVE, ORANGE PARK, FL 32065
CONSTRUCTION DOCUMENTS

Comm. No: 18064.00
Date: 01/02/2020
Drawn by: MEA
Checked by: MEA

Revisions

No.	Date	Revision Description
1	01/21/20	Addendum 1
2	01/28/20	Addendum 2

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

MECHANICAL FLOOR PLAN (BASE BID)

M-101

DEMO NOTES:

DEMOLISH ALL EXISTING HVAC COMPONENTS, EXCEPT FOR THE FOLLOWING:

CAP EXISTING CHILLED WATER CONNECTIONS BACK TO MAIN.
MAIN 5" CHILLED WATER PIPING TO REMAIN.
REMOVE DUCTWORK BACK TO EXISTING DOAS UNIT.
LEAVE DOAS UNIT IN CURRENT LOCATION.

TERMINATE WITH WALL CAP. CONFIRM COLOR WITH ARCHITECT.

EXISTING 5" CHILLED WATER MAINS ROUTE INTO EXISTING COVERED WALK WAY AND TO ADJACENT BUILDINGS.

EXISTING 5" CHILLED WATER MAINS BELOW GRADE. ROUTED TO EXISTING CHILLED WATER PLANT TO REMAIN.

REPLACE EXISTING EXHAUST LOUVER WITH NEW LOUVER SAME SIZE. VERIFY SIZE IN FIELD. BOD: GREENHECK EHH-601D. PROVIDE NEW PLENUM BOX BEHIND LOUVER AND SLOPE TO EXTERIOR. CONNECT RESTROOM EXHAUST TO PLENUM BOX AND PROVIDE BACKDRAFT DAMPER.

REPLACE EXISTING OA LOUVER AT MECHANICAL ROOM AND RE-USE EXISTING OA DUCT AND ELECTRIC DUCT HEATER TO AHU-OA. LOUVER SIZE 48x32. PROVIDE NEW PLENUM BOX BEHIND LOUVER AND SLOPE TO EXTERIOR. BOD: EHH-601D.

ROUTE NEW 3" CHILLED WATER SUPPLY AND RETURN TO NEW ADDITION MECHANICAL ROOM. CONNECT TO EXISTING 5" CHWS&R. EXISTING 5" MAIN MUST REMAIN IN SERVICE.

24x12 EA LOUVER. GREENHECK EHH-601D

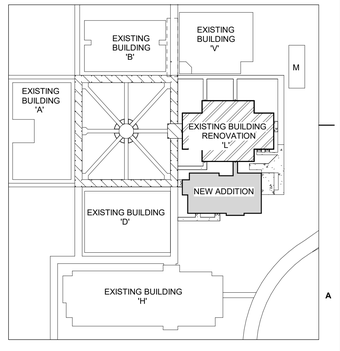
CROSS RETURN TO NORTH SIDE BETWEEN JOISTS. ROUTE BELOW BEAM IN CORRIDOR.

PROPOSED LOCATION FOR NEW FIRE SERVICE TO BUILDINGS.

NEW OUTSIDE AIR LOUVER ABOVE DOOR. 48x24 BOD: GREENHECK EHH-601D

NEW 3-WAY CHW VALVES AT NEW AHU

1 LEVEL 1 - MECHANICAL
1/8" = 1'-0"



KEY LEGEND ADD ALT #1
N.T.S

0 4' 8' 24'

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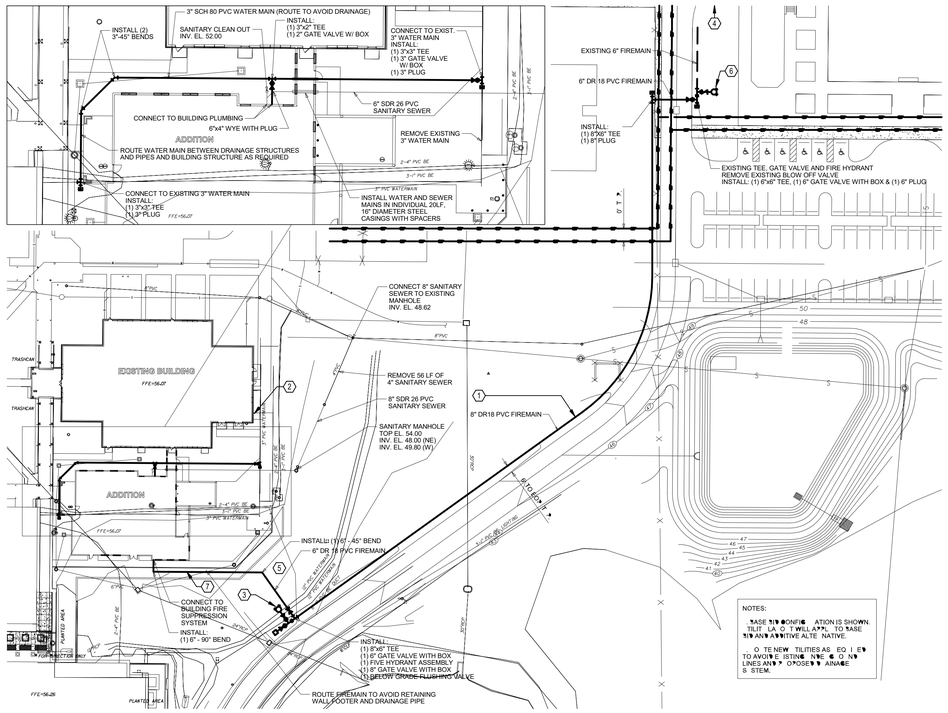
MECHANICAL FLOOR PLAN (ADD ALT 1)

M-101A



1 FIRE SITE PLAN (BASED ON CIVIL UTILITY PLAN)
N.T.S.

1. NEW 8" PVC FIRE MAIN, REFER TO CIVIL FOR FURTHER INFORMATION.
2. NEW FIRE DEPARTMENT CONNECTION ON EXISTING MECHANICAL ROOM WALL.
3. NEW HYDRANT, REFER TO CIVIL.
4. LOCATION OF EXISTING BACK FLOW PREVENTION DEVICE, NOT SHOWN REFER TO CIVIL.
5. LOCATION OF POST INDICATOR VALVE (PIV)
6. TESTED HYDRANT
7. NEW 6" PVC FIRE SERVICE TO BUILDINGS

DESIGN CRITERIA

ENTIRE SPACE (EXCEPT AS NOTED):

OCCUPANCY CLASSIFICATION:	LIGHT HAZARD
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.10 GPM/SQ.FT.
HYDRAULIC REMOTE AREA:	1,500 SQ. FT.
SPRINKLER ORIFICE SIZE:	1/2"
DURATION OF SUPPLY:	60 - 90 MIN.
MAX. COVERAGE/SPRINKLER HEAD:	225 SQ. FT. OR SPRINKLER LISTING
HOSE STREAM ALLOWANCE:	250 GPM

STORAGE, MECH./ELEC. ROOMS:

OCCUPANCY CLASSIFICATION:	ORDINARY HAZARD GROUP I
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.15 GPM/SQ.FT.
HYDRAULIC REMOTE AREA:	1,500 SQ. FT.
SPRINKLER ORIFICE SIZE:	1/2"
DURATION OF SUPPLY:	60 - 90 MIN.
MAX. COVERAGE/SPRINKLER HEAD:	130 SQ. FT. OR SPRINKLER LISTING
HOSE STREAM ALLOWANCE:	250 GPM

REFERENCE PUBLICATIONS:

THE FOLLOWING PUBLICATIONS SHALL BE USED AS A REFERENCE FOR DESIGN OF THE FIRE SUPPRESSION SYSTEM ON THIS PROJECT.

1. FLORIDA FIRE PREVENTION CODE, SIXTH EDITION
2. NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2013
3. NFPA 25, STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS, 2014
4. FLORIDA BUILDING CODE, SIXTH EDITION

SPRINKLER TYPE CRITERIA:

SPRINKLERS IN GYPSUM BOARD CEILINGS, RECEPTIONS. SPECIALTY CEILINGS TO BE CONCEALED (WHITE COVERPLATE), AND SHALL BE RATED AT 165°F WITH A 5.6 K-FACTOR.

ALL SPRINKLERS IN OFFICES AND BACK OF HOUSE SPACES TO HAVE SEMI-RECESSED SPRINKLERS (CHROME FINISH), AND SHALL BE RATED AT 165°F WITH A 5.6 K-FACTOR.

ALL SPRINKLERS IN AREAS WITH NO CEILINGS TO HAVE BRASS UPRIGHT SPRINKLERS, AND SHALL BE RATED AT 165° F WITH A 5.6 K-FACTOR. PROVIDE SPRINKLER HEAD WITH GUARDS IN MECHANICAL/ELECTRICAL ROOMS.

FLORIDA ADMINISTRATIVE CODE CHAPTER 61G15-32 NOTES:

1. THE FIRE PROTECTION SYSTEM SCOPE OF WORK SHALL INCLUDE THE PREPARATION OF THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS (WORKING PLANS). PROVIDE ALL EQUIPMENT, MATERIALS, COMPONENTS, ASSEMBLIES AND SUPPORT SYSTEMS REQUIRED, AS DESCRIBED, IN NFPA 13. THE FIRE PROTECTION CONTRACTOR SHALL CONDUCT A HYDRANT FLOW TEST AND PERFORM HYDRAULIC CALCULATIONS FOR PREPARATION OF THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS (WORKING PLANS).
2. THE FIRE PROTECTION DESIGN, CALCULATIONS, INSTALLATION AND THE ACCEPTANCE TESTING OF THE FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13, 2007 EDITION; NFPA 24, 2007 EDITION; THE FLORIDA BUILDING CODE 2010 AND THE FLORIDA FIRE PREVENTION CODE 2010 EDITION AND ALL LOCAL CODES REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
3. AREA OCCUPANCIES AND HAZARD CLASSIFICATIONS ARE LISTED IN THE DESIGN CRITERIA NOTE LOCATED ON THE CONTRACT DOCUMENTS.
4. THE STRUCTURAL SUPPORTS AND OPENINGS FOR THE FIRE PROTECTION SYSTEM HAVE BEEN COORDINATED WITH THE STRUCTURAL ENGINEER.
5. ALL SYSTEM CONTROL VALVES SHALL BE PROVIDED WITH TAMPER SWITCHES AND INTERFACE WITH THE FACP ON THE SUPERVISORY CIRCUIT, ALL FLOW SWITCHES SHALL INTERFACE WITH THE FACP ON THE ALARM CIRCUIT.
6. THE FIRE PROTECTION CONTRACTOR SHALL PREPARE AND PROVIDE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS WITH HYDRAULIC CALCULATIONS. FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS WITH HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND THE LOCAL AHJ FOR ACCEPTANCE PRIOR TO PERMITTING.
7. ALL FIRE PROTECTION EQUIPMENT AND COMPONENTS SHALL BE LISTED AND TESTED FOR FIRE PROTECTION USE. ALL FIRE PROTECTION EQUIPMENT AND COMPONENTS SHALL BE THE U.L. LISTED AND FM APPROVED.
8. THE WATER SUPPLY FOR THE FIRE PROTECTION SYSTEM HAS NOT SHOWN ANY EVIDENCE OF MICROBIAL INDUCED CORROSION (MIC). THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY EVIDENCE OF MIC AND PROVIDE NECESSARY WATER TREATMENT AS NEED TO REDUCE OR ELIMINATE MIC.

FIRE PROTECTION FLOW TEST DATA

STATIC HYDRANT	FLOW HYDRANT	DATE: 17-05-2019
STATIC - 68 PSI RESIDUAL - 42 PSI	FLOW - 1007 GPM	TIME: 7:15 AM

LOCATION: EXIST FH SW CORNER OF EXISTING BUILDING

TEST CONDUCTED BY: Alton Holestin Jr.

FIRE PROTECTION GENERAL NOTES

1. FIRE PROTECTION DESIGN SHALL COMPLY WITH NFPA 13, 14, 20, 24, THE FLORIDA FIRE PREVENTION CODE AND ALL APPLICABLE LOCAL CODES. REFER TO DESIGN CRITERIA REFERENCE PUBLICATIONS SECTION ON THIS SHEET.
2. FINAL INSPECTION AND APPROVAL BY LOCAL FIRE MARSHAL AND ARCHITECT/ENGINEER.
3. THE FIRE PROTECTION SYSTEMS SHOWN REPRESENT THE DESIGN INTENT OF THE ENGINEER. IN ACCORDANCE WITH STATE REGULATION 61G15-32, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES. SUBMIT COMPLETE SPRINKLER SYSTEM LAYOUT DRAWINGS WITH ANY ADDITIONAL OFFSETS, SPRINKLERS OR SYSTEM COMPONENTS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM AND TO AVOID CONFLICTS WITH OTHER TRADES.
4. SPRINKLER SHOP DRAWINGS AND MATERIAL CUT SHEETS SHALL BE SUBMITTED TO THE ARCHITECT AND LOCAL FIRE MARSHAL FOR APPROVAL PRIOR TO ANY INSTALLATION.
5. PIPE ROUTING SHOWN IS SCHEMATIC ONLY. PROVIDE ALL ADDITIONAL OFFSETS REQUIRED FOR PROPER INSTALLATION AND COORDINATION WITH OTHER TRADES.
6. INSTALL PIPING IN AREAS WITH EXPOSED STRUCTURE AS HIGH AS POSSIBLE TO ALLOW THE OWNER MAXIMUM USE OF THE SPACE.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING DESCRIPTIONS AND HEIGHTS.
8. COORDINATE SPRINKLERS WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND LISTING OF THE SPRINKLER.
9. CENTER SPRINKLERS IN THE CENTER OF CEILING TILE. PROVIDE ARMOVER OR SWING JOINT AS REQUIRED.
10. SPRINKLERS IN AREAS WITH EXPOSED STRUCTURE (OBSTRUCTED CONSTRUCTION) SHALL BE INSTALLED WITH DEFLECTOR 1" BELOW THE BOTTOM OF THE BEAM (MAXIMUM 22" BELOW ROOF DECK). EXPOSED BAR JOISTS THAT HAVE SPRAY-ON FIRE PROOFING THAT MAKES THE JOIST SOLID SHALL BE TREATED LIKE A BEAM WITH THE SPRINKLERS 1" BELOW THE BOTTOM OF THE FIRE PROOFING.
11. SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH UL LISTED ASSEMBLIES. PROVIDE FIRESTOP ASSEMBLIES EQUAL TO OR EXCEEDING THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR RATINGS.
12. FURNISH ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES, FOR INSTALLATION BY GENERAL CONTRACTOR.
13. PROVIDE A PERMANENTLY ATTACHED NAME TAG TO THE RISER STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY-DESIGNED SYSTEM.
14. PROVIDE SPRINKLERS UNDERNEATH ALL EXPOSED DUCTWORK WHICH IS OVER 48" WIDE AND SPACE HEADS AROUND ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13. HEADS UNDER DUCTS ARE NOT INDICATED ON THE DRAWINGS BUT ARE REQUIRED. PROVIDE IN ACCORDANCE WITH NFPA 13. COORDINATE SPRINKLER LOCATIONS UNDER DUCTWORK AND AROUND OBSTRUCTIONS WITH FINAL INSTALLED LOCATIONS.
15. PROVIDE SPRINKLERS AT THE TOP AND BOTTOM OF ALL STAIRWELLS.
16. PROVIDE SPRINKLER GUARDS ON ALL HEADS IN ELECTRIC ROOMS, TELEPHONE ROOMS, ELEVATOR ROOMS, ELEVATOR SHAFTS, STORAGE ROOMS, UTILITY ROOMS AND ON ANY HEADS LESS THAN 7'-0" ABOVE THE FLOOR.
17. PROVIDE HANGERS ON END HEADS IN PENDANT POSITION WITHIN 12" OF END OF LINE, IN ACCORDANCE WITH NFPA 13, WHEN SYSTEM PRESSURE EXCEEDS 100 PSI.
18. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. REROUTE ANY PIPING RUN OVER ELECTRICAL EQUIPMENT.
19. PROVIDE 20-GAUGE STEEL SPRINKLER CANOPY SHIELD AT SPRINKLERS IN TRASH CHUTE PER NFPA #13.
20. PROVIDE INTERMEDIATE TEMPERATURE (200°F) SPRINKLERS IN ELEVATOR SHAFTS AND EQUIPMENT ROOMS PER NFPA 13.
21. INSULATE AND PROVIDE ALUMINUM JACKETING ON ALL WET BULK SUPPLY MAINS AND HOSE SUPPLY MAINS EXPOSED TO THE WEATHER.
22. ALL DRAIN AND DRY PIPE SYSTEM PIPING AND FITTINGS SHALL BE GALVANIZED BOTH INSIDE AND OUTSIDE.
23. PROVIDE TAMPER SWITCHES ON ALL CONTROL VALVES.
24. SLOPE ALL PIPING TO THE SYSTEM MAIN DRAIN AS REQUIRED TO INSURE PROPER DRAINAGE. INSTALL ADDITIONAL DRAINS AND PLUGS WHERE REQUIRED TO COMPLY WITH THE ABOVE REFERENCED CODES.
25. PROVIDE ROLL GROOVED OR CUT GROOVED COUPLINGS AND FITTINGS FROM A SINGLE MANUFACTURER.
26. THIS BUILDINGS STRUCTURAL SYSTEM HAS BEEN DESIGNED TO SUPPORT THE ADDITIONAL WEIGHT ASSOCIATED WITH THE SPRINKLER SYSTEM.
27. PAINT ALL SPRINKLER PIPING INSTALLED BELOW THE CEILINGS AND IN EXPOSED LOCATIONS. CLEAN, PRIME AND PAINT ALL EXPOSED PIPING RED, UNLESS OTHERWISE NOTED. COORDINATE ALL COLORS WITH THE ARCHITECT.
28. COORDINATE HANGER LOCATIONS WITH THE BUILDING STRUCTURE. SUPPORT PIPING IN ACCORDANCE WITH NFPA 13. PROVIDE ALL MISCELLANEOUS STEEL FRAMING AS REQUIRED TO SUPPORT PIPING. PROVIDE GALVANIZED OR COATED HANGERS AND RODS.
29. PROVIDE A TEMPORARY STANDPIPE SYSTEM WITH FIRE DEPARTMENT CONNECTIONS DURING CONSTRUCTION.

N

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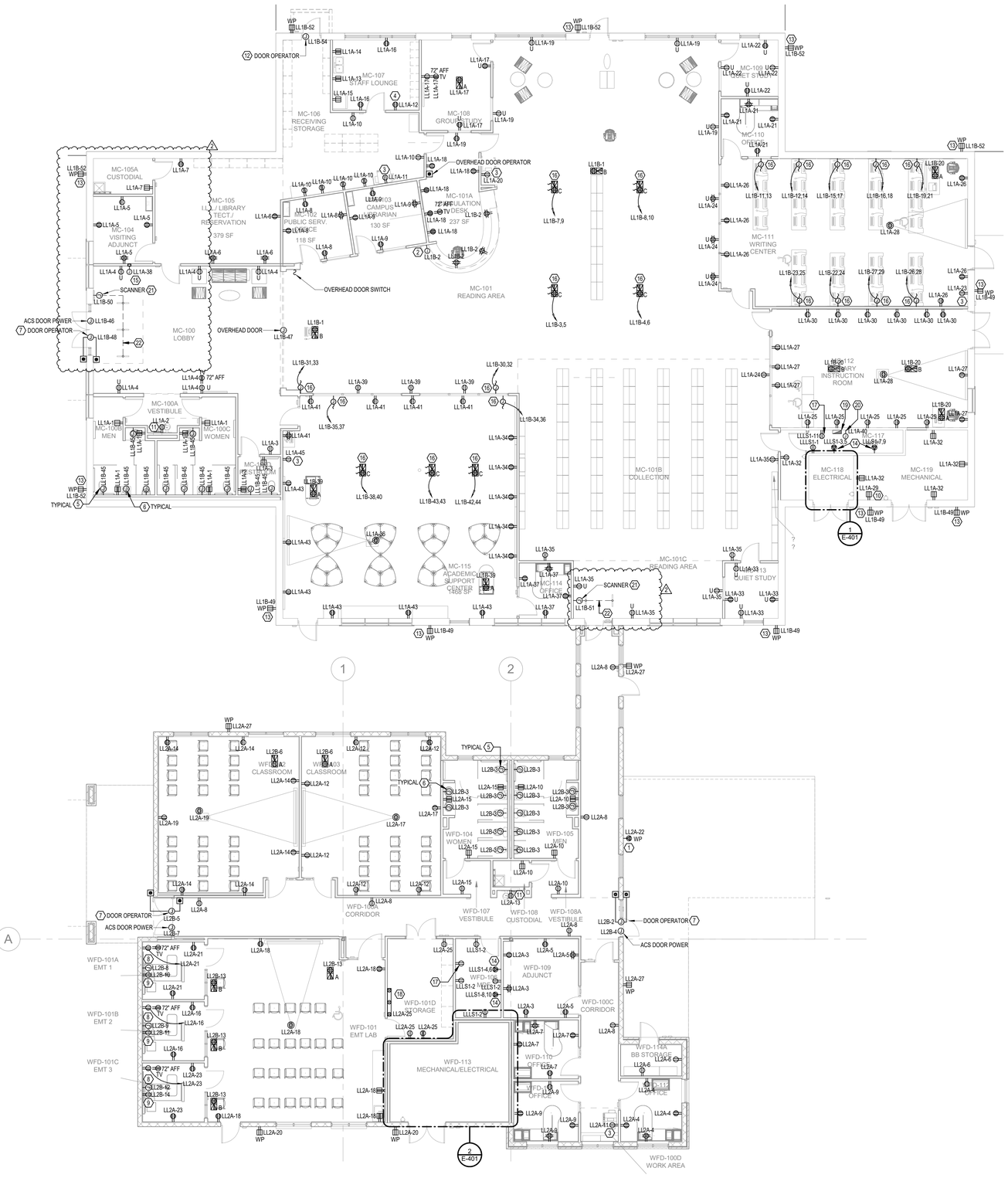
NAME:, LIC. #, DATE:

FIRE PROTECTION SYMBOLS, LEGEND, NOTES AND INDEX

FP001



1 ELECTRICAL POWER PLAN (BASE BID)
1/8" = 1'-0"

GENERAL NOTES:

A. ALL FLOOR BOXES SHALL BE FLUSH WITH THE FLOOR.

B. ALL WIRING DEVICES SHALL BE GRAY IN COLOR.

C. ALL WIRING DEVICES SHALL HAVE STAINLESS STEEL COVERS.

D. ALL PANELS SHALL BE SQUARE-D BOLT-ON TYPE.

E. CONTRACTOR SHALL PROVIDE CLASSROOM PROJECTORS.

F. REFER TO SHEET E-504 FOR MORE INFORMATION ON RECEPTACLE CONTROL.

G. USB RECEPTACLES SHALL BE BY HUBBELL PART #: USB15ACSW.

KEYED NOTES:

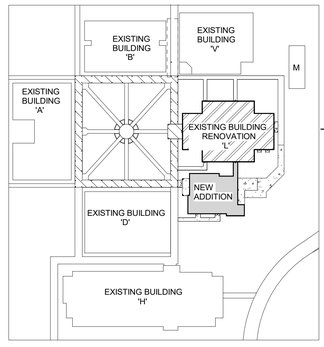
1. PROVIDE NEMA L5-20R TYPE RECEPTACLE.
2. PROVIDE JUNCTION BOX FOR FEEDING POWER THROUGH CIRCULATION DESK CASEWORK.
3. DEDICATED CIRCUIT FOR COPIER.
4. DEDICATED CIRCUIT.
5. PROVIDE CONNECTION TO FLUSH SENSOR. COORDINATE EXACT ROUGH-IN REQUIREMENTS WITH PLUMBING CONTRACTOR AND MANUFACTURER INSTALLATION INSTRUCTIONS.
6. PROVIDE CONNECTION TO FAUCET SENSOR. COORDINATE EXACT ROUGH-IN REQUIREMENTS WITH PLUMBING CONTRACTOR AND MANUFACTURER INSTALLATION INSTRUCTIONS.
7. PROVIDE CONNECTION TO DOOR OPERATOR SYSTEM. COORDINATE EXACT ROUGH-IN REQUIREMENTS WITH MANUFACTURER INSTALLATION INSTRUCTIONS. PROVIDE CONDUIT, BOX, AND PULLSTRING FOR DOOR PUSHBUTTONS.
8. PROVIDE CONNECTION TO BED HEADWALL SYSTEM. COORDINATE EXACT ROUGH-IN HEIGHT.
9. DEDICATED CIRCUIT FOR BED POWER.
10. DEDICATED CIRCUIT FOR HVAC CONTOLS.
11. PROVIDE GFCI BREAKER FOR ELKAY EZH2O BOTTLE FILLING STATION WITH INTEGRAL SWIRLFLO WATER FOUNTAIN POWER.
12. PROVIDE JUNCTION BOX FOR FUTURE DOOR OPERATOR ABOVE ACCESSIBLE FINISHED CEILING. PROVIDE 3/4"C WITH PULLSTRING TO ELECTRICAL ROOM.
13. NEW RECEPTACLE TO REPLACE EXISTING EXTERIOR RECEPTACLE.
14. PROVIDE A NEMA 6-30R RECEPTACLE.
15. PROVIDE JUNCTION BOX FOR FEEDING POWER TO FAAP.
16. COMPUTER POWER TO BE ON NON-CONTROLLED DEDICATED CIRCUIT, ONLY CONVIENCE POWER SHALL BE PLACED ON THE DEDICATED CONTROLLED CIRCUIT.
17. DEDICATED CIRCUIT FOR SECURITY CONTROL PANEL.
18. PROVIDE WIREMOLD'S 4000 SERIES WIREMOLD WHICH SHALL BE MOUNTED AT 42" AFF.
19. NEW FACP TO INTERFACE WITH EXISTING CAMPUS FACP LOCATED IN BUILDING V. SEE FIRE ALARM ONE-LINE DIAGRAM AND SITE PLANS FOR ADDITIONAL INFORMATION.
20. PROVIDE JUNCTION BOX FOR POWERING FIRE ALARM CONTROL PANEL.
21. POWER FOR BOOK THEFT PROTECTION SYSTEM. COORDINATE FINAL DATAROUGH-IN REQUIREMENTS FOR SYSTEM WITH MANUFACTURER INSTALLATION INSTRUCTIONS.
22. SAW-CUT SLAB FOR POWER CONDUITS. PROVIDE QUANTITY AND SIZE OF CONDUITS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE EXACT DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER REQUIREMENTS.

FLOOR BOX LEGEND

A — MULTI-SERVICE FLOOR BOX WITH TWO DUPLEX RECEPTACLES (QUAD) AND VOICE/DATA/AV DEVICES. BASIS OF DESIGN: WIREMOLD 6FBES. PROVIDE 3/4"C FOR POWER, 1-1/4"C FOR DATA, AND 2"C FOR AV. BOX COVER SHALL BE FLUSH WITH FINISHED FLOOR.

B — MULTI-SERVICE FLOOR BOX WITH TWO DUPLEX RECEPTACLES (QUAD) AND VOICE/DATA DEVICES. BASIS OF DESIGN: WIREMOLD 'RFB4'. PROVIDE 3/4"C FOR POWER AND (2) 1-1/4"C FOR DATA. BOX COVER SHALL BE FLUSH WITH FINISHED FLOOR.

C — MULTI-SERVICE POWER & DATA FLOOR BOX WITH FURNITURE FEED CONNECTION. BASIS OF DESIGN: WIREMOLD 'RFB4' WITH FURNITURE FEED COVER. PROVIDE 1"C FOR POWER AND (2) 1-1/4"C FOR DATA.



KEY LEGEND - BASE BID
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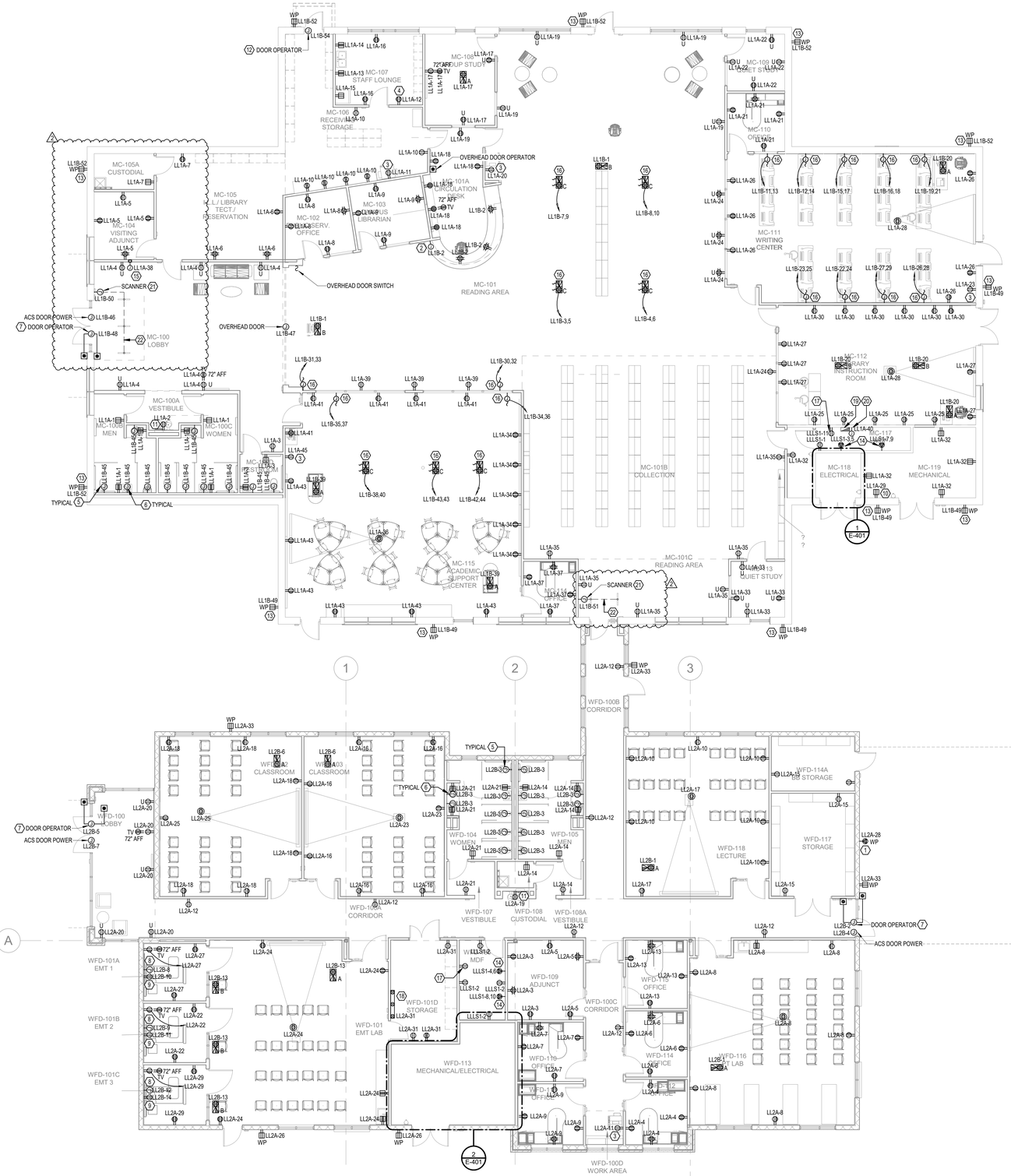
MONCEF HADJI, PE: FL LIC. #48022

ELECTRICAL POWER PLAN (BASE BID)

E-201



1 ELECTRICAL POWER PLAN (ALTERNATE)
1/8" = 1'-0"

GENERAL NOTES:

A. ALL FLOOR BOXES SHALL BE FLUSH WITH THE FLOOR.

B. ALL WIRING DEVICES SHALL BE GRAY IN COLOR.

C. ALL WIRING DEVICES SHALL HAVE STAINLESS STEEL COVERS.

D. ALL PANELS SHALL BE SQUARE-D BOLT-ON TYPE.

E. CONTRACTOR SHALL PROVIDE CLASSROOM PROJECTORS.

F. REFER TO SHEET E-504 FOR MORE INFORMATION ON RECEPTACLE CONTROL.

G. USB RECEPTACLES SHALL BE BY HUBBELL PART #: USB15ACSW.

KEYED NOTES:

1. PROVIDE NEMA L5-20R TYPE RECEPTACLE.
2. PROVIDE JUNCTION BOX FOR FEEDING POWER THROUGH CIRCULATION DESK CASEWORK.
3. DEDICATED CIRCUIT FOR COPIER.
4. DEDICATED CIRCUIT.
5. PROVIDE CONNECTION TO FLUSH SENSOR. COORDINATE EXACT ROUGH-IN REQUIREMENTS WITH PLUMBING CONTRACTOR AND MANUFACTURER INSTALLATION INSTRUCTIONS.
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11. PROVIDE GFCI BREAKER FOR ELKAY EZH2O BOTTLE FILLING STATION WITH INTEGRAL SWIRLFLO WATER FOUNTAIN POWER.
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13. NEW RECEPTACLE TO REPLACE EXISTING EXTERIOR RECEPTACLE.
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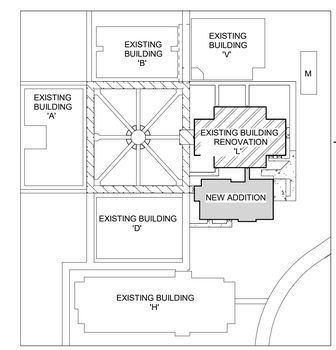
18. PROVIDE WIREMOLD'S 4000 SERIES WIREMOLD WHICH SHALL BE MOUNTED AT 42" AFF.
19. NEW FACP TO INTERFACE WITH EXISTING CAMPUS FACP LOCATED IN BUILDING V. SEE FIRE ALARM ONE-LINE DIAGRAM AND SITE PLANS FOR ADDITIONAL INFORMATION.
20. PROVIDE JUNCTION BOX FOR POWERING FIRE ALARM CONTROL PANEL.
21. POWER FOR BOOK THEFT PROTECTION SYSTEM. COORDINATE FINAL DATAROUGH-IN REQUIREMENTS FOR SYSTEM WITH MANUFACTURER INSTALLATION INSTRUCTIONS.
22. SAW-CUT SLAB FOR POWER CONDUITS. PROVIDE QUANTITY AND SIZE OF CONDUITS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE EXACT DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER REQUIREMENTS.

FLOOR BOX LEGEND

A — MULTI-SERVICE FLOOR BOX WITH TWO DUPLEX RECEPTACLES (QUAD) AND VOICE/DATA/AV DEVICES. BASIS OF DESIGN: WIREMOLD EFB8S. PROVIDE 3/4"C FOR POWER, 1-1/4"C FOR DATA, AND 2"C FOR AV. BOX COVER SHALL BE FLUSH WITH FINISHED FLOOR.

B — MULTI-SERVICE FLOOR BOX WITH TWO DUPLEX RECEPTACLES (QUAD) AND VOICE/DATA DEVICES. BASIS OF DESIGN: WIREMOLD 'RFB4'. PROVIDE 3/4"C FOR POWER AND (2) 1-1/4"C FOR DATA. BOX COVER SHALL BE FLUSH WITH FINISHED FLOOR.

C — MULTI-SERVICE POWER & DATA FLOOR BOX WITH FURNITURE FEED CONNECTION. BASIS OF DESIGN: WIREMOLD 'RFB4' WITH FURNITURE FEED COVER. PROVIDE 1"C FOR POWER AND (2) 1-1/4"C FOR DATA.



KEY LEGEND ADD ALT #1
N.T.S

0 4' 8' 24'

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Comm. No: 18064.00
Date: 01/02/2020
Drawn by: AMH
Checked by: MMH

Revisions

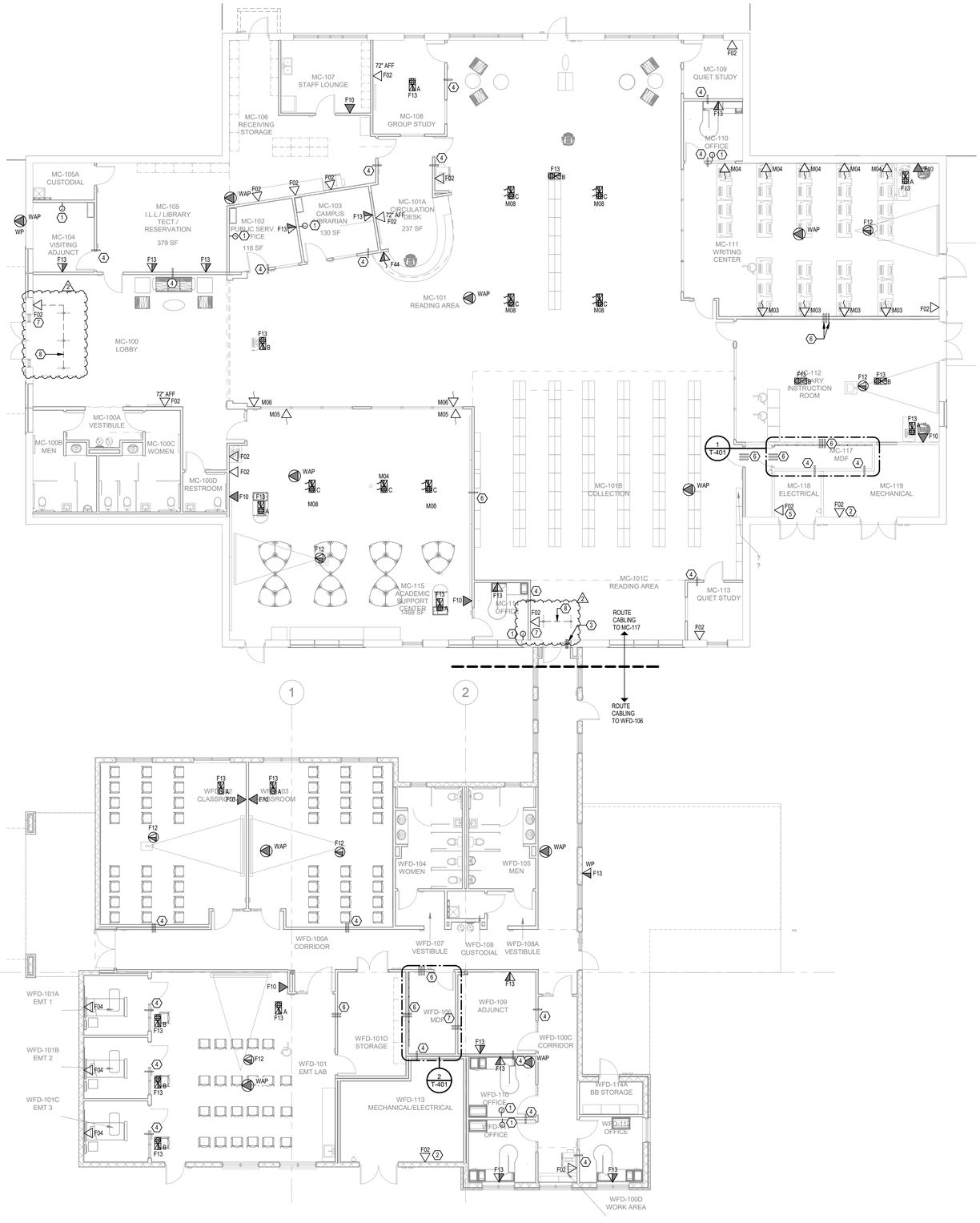
No.	Date	Revision Description
2	01/28/20	Addendum 2

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

MONCEF HADJI, PE- FL LIC. #48022

ELECTRICAL POWER PLAN (ADD ALT 1)

E-201A



1 TECHNOLOGY VOICE/DATA PLAN (BASE BID)
1/8" = 1'-0"

GENERAL NOTES:

A. ALL FLOOR BOXES SHALL BE FLUSH WITH THE FLOOR.

B. ALL WIRING DEVICES SHALL BE GRAY IN COLOR.

C. ALL WIRING DEVICES SHALL HAVE STAINLESS STEEL COVERS.

D. INCLUDE 10' OF ADDITIONAL CAT6 ABOVE CEILING FOR ALL WAP'S.

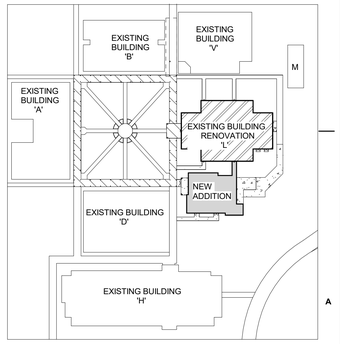
E. CONTRACTOR SHALL PROVIDE CLASSROOM PROJECTORS.

KEYED NOTES:

1. PROVIDE A JUNCTION BOX WITH CONDUIT, PULLSTRING, AND BLANK COVER TO FEED FUTURE DATA AND OUTLET.
2. DATA OUTLET FOR HVAC CONTROLS.
3. PROVIDE TWO 2" RACEWAYS TO FEED FUTURE CABLE.
4. PROVIDE 2" RACEWAY TO FEED CABLE.
5. DATA OUTLET FOR LIGHTING CONTROLS.
6. PROVIDE 4" RACEWAYS TO FEED CABLE.
7. DATA FOR BOOK THEFT PROTECTION SYSTEM. COORDINATE FINAL DATAROUGH-IN REQUIREMENTS FOR SYSTEM WITH MANUFACTURER INSTALLATION INSTRUCTIONS.
8. SAW-CUT SLAB FOR DATA CONDUITS. PROVIDE QUANTITY AND SIZE OF CONDUITS AND CABLES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE EXACT DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER REQUIREMENTS.

FLOOR BOX LEGEND

A	MULTI-SERVICE FLOOR BOX WITH TWO DUPLEX RECEPTACLES (QUAD) AND VOICE/DATA/AV DEVICES. BASIS OF DESIGN: WIREMOLD 'EFB6S'. PROVIDE 3/4"C FOR POWER, 1-1/4"C FOR DATA, AND 2"C FOR AV. BOX COVER SHALL BE FLUSH WITH FINISHED FLOOR.
B	MULTI-SERVICE FLOOR BOX WITH TWO DUPLEX RECEPTACLES (QUAD) AND VOICE/DATA DEVICES. BASIS OF DESIGN: WIREMOLD 'RFB4'. PROVIDE 3/4"C FOR POWER AND (2) 1-1/4"C FOR DATA. BOX COVER SHALL BE FLUSH WITH FINISHED FLOOR.
C	MULTI-SERVICE POWER & DATA FLOOR BOX WITH FURNITURE FEED CONNECTION. BASIS OF DESIGN: WIREMOLD 'RFB4' WITH FURNITURE FEED COVER. PROVIDE 1"C FOR POWER AND (2) 1-1/4"C FOR DATA.



KEY LEGEND - BASE BID
N.T.S

0 4' 8' 24'

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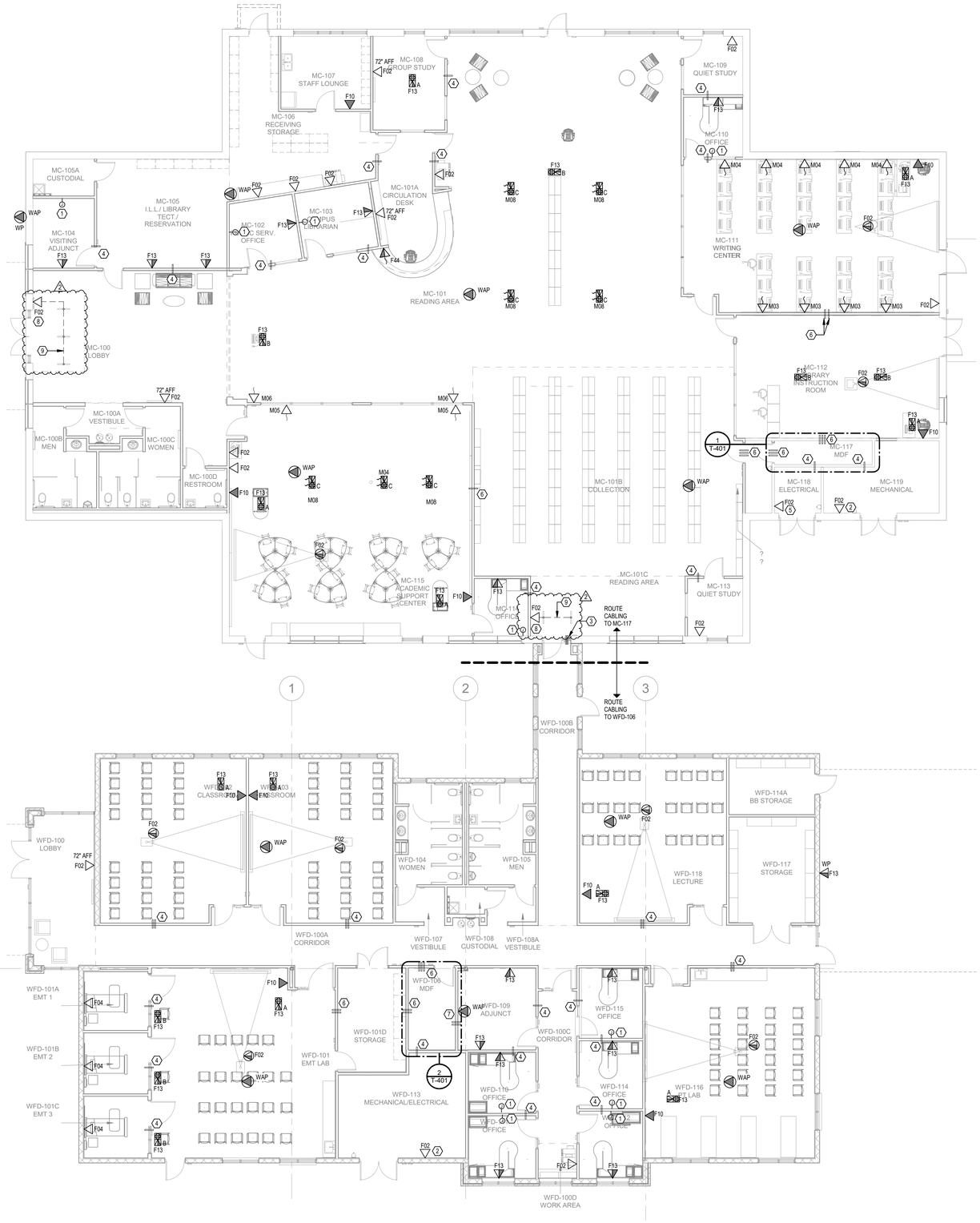
TECHNOLOGY VOICE/DATA PLAN (BASE BID)

T-101



1 TECHNOLOGY VOICE/DATA PLAN (ALTERNATE)
1/8" = 1'-0"

GENERAL NOTES:

A. ALL FLOOR BOXES SHALL BE FLUSH WITH THE FLOOR.

B. ALL WIRING DEVICES SHALL BE GRAY IN COLOR.

C. ALL WIRING DEVICES SHALL HAVE STAINLESS STEEL COVERS.

D. INCLUDE 10' OF ADDITIONAL CAT6 ABOVE CEILING FOR ALL WAPS.

E. CONTRACTOR SHALL PROVIDE CLASSROOM PROJECTORS.

KEYED NOTES:

1. PROVIDE A JUNCTION BOX WITH CONDUIT, PULLSTRING, AND BLANK COVER TO FEED FUTURE DATA AND OUTLET.
2. DATA OUTLET FOR HVAC CONTROLS.
3. PROVIDE TWO 2" RACEWAYS TO FEED FUTURE CABLE.
4. PROVIDE 2" RACEWAY TO FEED CABLE.
5. DATA OUTLET FOR LIGHTING CONTROLS.
6. PROVIDE 4" RACEWAY TO FEED CABLE.
7. PROVIDE 3" RACEWAY TO FEED CABLE.
8. DATA FOR BOOK THEFT PROTECTION SYSTEM. COORDINATE FINAL DATAROUGH-IN REQUIREMENTS FOR SYSTEM WITH MANUFACTURER INSTALLATION INSTRUCTIONS.
9. SAW-CUT SLAB FOR DATA CONDUITS. PROVIDE QUANTITY AND SIZE OF CONDUITS AND CABLES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE EXACT DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER REQUIREMENTS.

FLOOR BOX LEGEND

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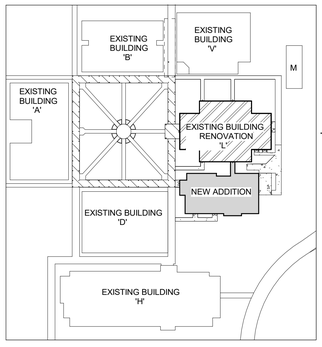

KEY LEGEND ADD ALT #1
N.T.S

0 4' 8' 24'

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TECHNOLOGY VOICE/DATA PLAN (ADD ALT 1)

T-101A