# ARLINGTON COUNTY, VIRGINIA OFFICE OF THE PURCHASING AGENT 2100 CLARENDON BOULEVARD, SUITE 500 ARLINGTON, VIRGINIA 22201

#### **CONTRACT AWARD COVERPAGE**

TO: LANDIVAR & ASSOCIATES, LLC DATE ISSUED: DECEMBER 17, 2022

2350 DUKE STREET, SUITE B CONTRACT NO: 23-DES-ITBPW-415

ALEXANDRIA, VIRGINIA 22314 CONTRACT TITLE: ARLINGTON COUNTY CHILD CARE CENTER

RENOVATION

### THIS IS A NOTICE OF AWARD OF CONTRACT AND NOT AN ORDER. NO WORK IS AUTHORIZED UNTIL THE VENDOR RECEIVES A VALID COUNTY PURCHASE ORDER ENCUMBERING CONTRACT FUNDS.

The contract documents consist of the terms and conditions of AGREEMENT No. 23-DES-ITBPW-415 including any attachments or amendments thereto.

**EFFECTIVE DATE: JANUARY 3, 2023** 

EXPIRES: APRIL 30, 2024 RENEWALS: NONE

**COMMODITY CODE(S)**: 90924, 90927, 90922, 90929

LIVING WAGE: N

**ATTACHMENTS**:

AGREEMENT No. 23-DES-ITBPW-415

#### **EMPLOYEES NOT TO BENEFIT:**

NO COUNTY EMPLOYEE SHALL RECEIVE ANY SHARE OR BENEFIT OF THIS CONTRACT NOT AVAILABLE TO THE GENERAL PUBLIC.

<u>VENDOR CONTACT:</u> Antonio Landivar <u>VENDOR TEL. NO.:</u> (703) 299-9180

 $\underline{\textbf{EMAIL ADDRESS:}} \; \underline{\textbf{alandivar@landivarassociates.com}}$ 

COUNTY CONTACT: Cynthia Wilson (DES AND FD&C) COUNTY TEL. NO.: (703) 228-4438

COUNTY CONTACT EMAIL: CWILSON@ARLINGTONVA.US

#### **PURCHASING DIVISION AUTHORIZATION**

Sy Gezachew Title Procurement Officer Date January 3, 2023



# ARLINGTON COUNTY, VIRGINIA OFFICE OF THE PURCHASING AGENT SUITE 500, 2100 CLARENDON BOULEVARD ARLINGTON, VA 22201

#### **AGREEMENT NO. 23-DES-ITBPW-415**

THIS AGREEMENT is made, on \_\_\_\_\_\_\_, between Landivar & Associates, LLC, 2350 Duke Street, Suite B ("Contractor") a Virginia, Limited Liability Company authorized to do business in the Commonwealth of Virginia, and the County Board of Arlington County, Virginia ("County"). The County and the Contractor, for the consideration hereinafter specified, agree as follows:

#### 1. CONTRACT DOCUMENTS

The Contract Documents consist of:

- Agreement No. 23-DES-ITBPW-415, and all modifications properly incorporated into the Agreement
- Exhibit A Arlington County Invitation to Bid No. 23-DES-ITBPW-415, including DES General Conditions and Special Conditions, incorporated by reference.
- Exhibit B Specifications, Drawings and Construction Notes
- Exhibit C Virginia Department Of Labor And Industry Wage Determination Decision
- Exhibit D Price Bid of Contractor
- Exhibit E Contractor Performance Form
- Exhibit F Insurance Checklist

Where the terms and provisions of this Agreement vary from the terms and provisions of the other Contract Documents, the terms and provisions of this Agreement will prevail over the other Contract Documents, and the remaining Contract Documents will be complementary to each other. If there are any conflicts, the most stringent terms or provisions will prevail.

The Contract Documents set forth the entire agreement between the County and the Contractor. The County and the Contractor agree that no representative or agent of either party has made any representation or promise with respect to the parties' agreement that is not contained in the Contract Documents. The Contract Documents may be referred to below as the "Contract" or the "Agreement".

#### 2. SCOPE OF WORK

The Contractor will furnish all labor, materials, and equipment for the Interior Renovation of Arlington County Child Care Center, replacement of all windows and doors and limited site work at 1915 N. Uhle Street, Arlington, VA. (the "Project") and all other work shown, described, and required by the Contract Documents (hereinafter "the Work").

The Work shall be performed according to the standards established by the Contract Documents read together as a single specification. It shall be the Contractor's responsibility, at solely the Contractor's cost, to provide sufficient services to fulfill the purposes of the Work. Nothing in the Contract Documents shall be construed to limit the Contractor's responsibility to manage the details and execution of its Work.

#### 3. PROJECT OFFICER

The performance of the Contractor is subject to the review and approval of the County Project Officer identified in Section 54, Notices, unless the Contractor is otherwise notified in writing.

#### 4. TIME FOR COMPLETION

Work under this Agreement shall achieve Substantial Completion no later than Three Hundred Thirty (330) consecutive calendar days after the commencement date given in a Notice to Proceed provided by the County to the Contractor, subject to any modifications made as provided for in the Contract Documents. This Three Hundred Thirty (330) day period shall be the Period of Performance for Substantial Completion. No Work shall be deemed Substantially Complete until it meets the requirements of Substantial Completion set forth in the General Conditions. Final Completion of the Work shall be completed no later than Thirty (30) calendar days after the date of acceptance of Substantial Completion by the County Project Officer. Work will not reach Final Completion until it meets the requirements set forth in the General Conditions.

Unless otherwise provided, no claims for early completion are allowed.

#### 5. <u>CONTRACT AMOUNT</u>

The County will pay the Contractor in accordance with the terms of the Progress Payments and Retainage and Payment Terms sections below and at the prices shown in Exhibit D for the Contractor's completion of the Work as required by the Contract Documents provided the Work is performed to the satisfaction of and is accepted by the Project Officer. The Contractor will complete the Work for the total amount specified in this section ("Contract Amount") unless such amount is modified as provided in this Agreement. The Contract Amount includes all of the Contractor's costs and fees (profit) and is inclusive of all anticipated or known site conditions, anticipated or known materials, labor, and equipment costs, or any other costs which should reasonably have been expected by the Contract Documents.

#### 6. PROGRESS PAYMENTS AND RETAINAGE

The County will make monthly progress payments to the Contractor upon written application by the Contractor, on the basis of a written estimate of the work performed during the preceding calendar month as approved by the Project Officer. However, 5% of each progress payment will be retained by the County until Final Completion and acceptance of all Work covered by the Agreement.

All material and work covered by partial payments will become the property solely of the County at the time the partial payment is made. However, the Contractor will have the sole responsibility, care and custody for all materials and work upon which payments have been made until Substantial Completion.

When calculating payment for materials on-site, the County shall not pay for materials which are not scheduled for incorporation into the Work within sixty (60) days from the date of application for payment.

#### 7. PAYMENT TERMS

The Contractor must submit invoices to the County's Project Officer, who will either approve the invoice or require corrections. The County will pay the Contractor within 45 days after approval of an invoice for completed work which is reasonable and allocable to the Contract. All payments will be made from the County to the Contractor via ACH. The number of the County Purchase Order pursuant to work has been performed must appear on all invoices.

#### 8. PAYMENT OF SUBCONTRACTORS

The Contractor is wholly responsible for the entire amount owed to any subcontractor with which the Contractor contracts in the performance of this Agreement, regardless of whether the Contractor has received payment from the County. The Contractor is not liable for amounts that are not owed as a result of the subcontractor's breach of its agreement with the Contractor, in which case the Contractor must notify the subcontractor in writing of its intention to withhold payment, in full or in part, and the reason for doing so.

The Contractor is obligated to take one of the two following actions within seven days after receipt of payment by the County for work performed by any subcontractor under this Contract:

- a. Pay the subcontractor for the proportionate share of the total payment received from the County attributable to the work performed by the subcontractor under this Contract; or
- b. Notify the County and the subcontractor, in writing, of the Contractor's intention to withhold all or a part of the subcontractor's payment with the reason for nonpayment.

The Contractor is obligated to pay interest to the subcontractor on all amounts owed by the Contractor to the subcontractor that remain unpaid after seven days following receipt by the Contractor of payment from the County for work performed by the subcontractor under this Contract, except for amounts withheld as allowed in subsection b., above. Unless otherwise provided under the terms of this Contract, interest will accrue at the rate of 1% per month.

The Contractor must include in each of its subcontracts, if any are permitted, a provision requiring each subcontractor to include or otherwise be subject to the same payment and interest requirements with respect to each lower-tier subcontractor.

The Contractor's obligation to pay an interest charge to a subcontractor pursuant to this section may not be construed to be an obligation of the County. A Contract modification may not be made for the purpose of providing reimbursement for such interest charge. A cost reimbursement claim may not include any amount for reimbursement for such interest charge.

#### 9. PREVAILING WAGE CONTRACT REQUIREMENTS

A. Section 4-104 of the Arlington County Purchasing Resolution (regarding "Prevailing Wage) applies to this Contract. All employees of the Contractor and any subcontractors shall be paid wages, salaries, benefits, and other remuneration at or above the craft or trade category prevailing wage rate indicated by Virginia Commissioner of Labor and Industry (DOLI) and as listed in the contract.

The Contractor and its subcontractors shall submit all certified payrolls and statements of compliance weekly through the <u>eComply website</u>. If the Contractor or any subcontractor does

not have an eComply profile, a one-time registration process immediately following the Notice of Award or Notice of Intent to Award and training on system functionality are required for each non-registered entity. The Contractor shall also be responsible for reviewing subcontractor payrolls and ensuring that contract requirements are met.

In addition to applying the prevailing wage rates to its own employees, the Contractor shall include the provisions of this Article 4-104 in every subcontract so that such provisions will be binding upon each subcontractor. The Contractor agrees to assume the obligation that the wage requirements will be observed in fulfilling the requirements of the Contract. The appropriate enforcement sanctions will be invoked against the Contractor and any such subcontractor in the event of such subcontractor's failure to comply with any of the provisions of this Article 4-104.

All wage rates to be used are listed in this Contract in Exhibit A. While DOLI maintains a list of wage determinations online for reference purposes, only the wage determinations made in an official Wage Determination Decision, sent by DOLI to Arlington County, can be used to ascertain the exact rates to be paid for this Contract.

All rates are determined by DOLI and any appeals of specific classification may be made through the Wage Determination Appeal form available at <a href="http://www.doli.virginia.gov/wp-content/uploads/2021/04/Appeal-for-Wage-Determination-Clarification.pdf">http://www.doli.virginia.gov/wp-content/uploads/2021/04/Appeal-for-Wage-Determination-Clarification.pdf</a>.

- B. Upon award of the Contract, the Contractor shall certify, under oath, to the Virginia Commissioner of Labor and Industry and to the County Prevailing Wage Compliance Manager, the pay scale for each craft and trade to be employed for, or to provide labor for, in the Work by the Contractor and any subcontractors. The Contractor's certification shall include all information required by the Code of Virginia § 2.2-4321.3G.
- C. The Contractor shall ensure that each individual providing labor as a mechanic, laborer, worker or equivalent shall be accurately classified in confirmation with the Wage Determination.
- D. The Contractor shall post the prevailing wage rate for each craft and classification involved as determined by DOLI, including the effective date, in a prominent and easily accessible place at the work site during the time work is being performed. The posting must be in English and any other language that is primarily spoken by the individuals at the work site. Within 10 days of such posting the Contractor shall certify to the County Prevailing Wage Compliance Manager and DOLI its compliance with this subsection at <a href="https://www.doli.virginia.gov/wp-content/uploads/2021/04/PW">https://www.doli.virginia.gov/wp-content/uploads/2021/04/PW</a> Posting Compliance Form.pdf;
- E. The Contractor must fully cooperate with the County Prevailing Wage Compliance Manager to ensure contract compliance requirements ,including but not limited to site visits, wage rate signage, contractor employee interviews, and the submission of certified payroll records.
- F. The Contractor must submit to the County Prevailing Wage Compliance Manager and DOLI, within five (5) working days of the end of each month, certification for each craft or trade employed on the project, specifying the total hourly amount paid to employees, including wages and applicable fringe benefits using the Pay Scale Certification Form at <a href="https://www.doli.virginia.gov/wp-content/uploads/2021/04/DOLI-Pay-Scale-Certification-for-pay-scale-certification-for-p

<u>Public-Works-Projects.pdf</u>. The certification must itemize the amount paid in wages and each applicable benefit and list the names and addresses of any third party fund, plan or program to which benefit payments will be made on behalf of employees.

- G. The Contractor shall indemnify and hold harmless the County from any fines, demands, claims, suits, and damages, including attorney's fees, resulting from the Contractor's or any subcontractor's failure to pay the Prevailing Wage.
- H. The Contractor and its subcontractors shall keep, maintain, and preserve (i) records relating to the wages paid to and hours worked by each individual performing the work of any mechanic, laborer, or worker; and (ii) a schedule of the occupation or work classification at which each individual performing the work of any mechanic, laborer, or worker on the construction project is employed each work day and week. The Contractor and its subcontractors shall make such records available to the Prevailing Wage Compliance Manager within 10 days of a request or per a regular schedule established in the Contract, and shall certify that records reflect the actual hours worked and the amount paid to its workers for whatever time period is requested. The Contractor and its subcontractors must preserve these records for a period of six (6) years after the expiration or earlier termination of the applicable contract.
- I. Any Contractor or subcontractor who pays any mechanic, laborer, or worker for services under this Contract less than the Prevailing Wage shall be liable to such individuals for the payment of all wages due, plus interest at an annual rate of eight percent (8%) from the dates wages were due; and shall be disqualified from bidding on public contracts with any public body until the Contractor or subcontractor has made full restitution. A willful violation of Article 4-104 is a Class I misdemeanor.
- J. For questions regarding Prevailing Wage, please email prevailingwage@arlingtonva.us.

#### 10. RELEASE AND REQUEST FOR FINAL PAYMENT

In order to receive final payment upon Final Completion of the Project and before Final Acceptance, the Contractor must submit to the Project Officer a signed original notarized copy of the Arlington County Release and Request for Final Payment form per the General Conditions.

#### 11. LIQUIDATED DAMAGES

Time is of the essence under this Contract. The Work must be completed within the Time for Completion. The County and the Contractor agree that damages for failure to achieve Substantial Completion of the Work by the date specified under Time for Completion are not susceptible to exact determination but that \$514.50 per calendar day is in proportion to the actual loss that the County would suffer from such delay. Therefore, the Contractor will pay the County as liquidated damages \$514.50 per day for each and every day beyond the time for Substantial Completion that the County determines Substantial Completion has not achieved. The County and the Contractor also agree that damages for failure to achieve Final Completion of the Work by the date specified under Time for Completion are not susceptible to exact determination but that \$514.50 per calendar day is in proportion to the actual loss the County would suffer from such delay. Therefore, the Contractor will pay the County as liquidated damages \$514.50 per day for each and every day beyond the time for Final Completion until Final Completion is achieved.

The County will be entitled to deduct liquidated damages against any sums owed by the County to the Contractor under this Contract. The Contractor hereby waives any defense as to the validity of any

liquidated damages on grounds that such liquidated damages are void as penalties or are not reasonably related to actual damages.

#### 12. NON-APPROPRIATION

All payments by the County to the Contractor pursuant to this Contract are subject to the availability of an annual appropriation for this purpose by the County Board of Arlington County, Virginia ("Board"). In the event that the Board does not appropriate funds for the goods or services provided under this Contract, the County will terminate the Contract, without termination charge or other liability to the County, on the last day of the fiscal year or when the previous appropriation has been spent, whichever occurs first.

#### 13. <u>ESTIMATED QUANTITIES/NON-EXCLUSIVITY OF CONTRACTOR</u>

This Contract does not obligate the County to purchase a specific quantity of items or services during Contract Term. Any quantities that are included in the Contract Documents are the present expectations of the County for the period of the Contract; and the County is under no obligation to buy that or any amount as a result of having provided this estimate or of having had any normal or otherwise measurable requirement in the past. The County may require more goods and/or services than the estimated annual quantities, and any such additional quantities will not give rise to any claim for compensation other than at the unit prices and/or rates in the Contract.

The County does not guarantee that the Contractor will be the exclusive provider of the goods or services covered by this Contract. The items or services covered by this Contract may be or become available under other County contract(s), and the County may determine that it is in its best interest to procure the items or services through those contract(s).

#### 14. COUNTY PURCHASE ORDER REQUIREMENT

County purchases are authorized only if the County issues a Purchase Order in advance of the transaction, indicating that the ordering County agency has sufficient funds available to pay for the purchase. If the Contractor provides goods or services without a signed County Purchase Order, it does so at its own risk and expense. The County will not be liable for payment for any purchases made by its employees that are not authorized by the County Purchasing Agent.

#### **15.** LIEN

It is expressly agreed that after any payment has been made by the County either to the Contractor for work done, or labor or material supplied under the Contract, the County will have a lien upon all material delivered to the site either by the Contractor, or for the Contractor, which is to be used in the performance of the Contract.

#### 16. VALUE ENGINEERING PROPOSAL (VEP)

Unless otherwise provided, the Contractor may submit to the County a written VEP for modifying the plans, specifications, or other requirements of the Agreement covering the work (Contract) for the purpose of reducing the total cost of the Contract without reducing the design capacity or quality of the finished product. If the VEP is accepted by the County, the net savings will be equally divided by the County and the Contractor.

Each VEP shall result in a net savings over the Contract cost without impairing essential functions and characteristics of the item(s) or of any other part of the project, including, but not limited to, service life,

reliability, economy of operation, ease of maintenance, aesthetics, and safety. At least the following information shall be submitted with each VEP:

- (a) a statement that the proposal is submitted as a VEP;
- (b) a statement concerning the basis for the VEP, benefits to the County, and an itemization of the Contract items and requirements affected by the VEP;
- (c) a detailed estimate of the cost under the existing Contract and under the VEP;
- (d) proposed specifications and recommendations as to the manner in which the VEP changes are to be accomplished; and
- (e) a statement as to the time by which a Contract Amendment adopting the VEP must be issued so as to obtain the maximum cost-effectiveness.

The County will process the VEP in the same manner as prescribed for any other proposal that would necessitate issuance of an Amendment. The County may accept a VEP in whole or part by issuing an Amendment that will identify the VEP on which it is based. The County will not be liable to the Contractor for failure to accept or act on any VEP submitted pursuant to these requirements or for delays in the work attributable to any VEP. Until a VEP is put into effect by an Amendment, the Contractor shall remain obligated to the terms and conditions of the existing Agreement. If an executed Amendment has not been issued by the date on which the Contractor's proposal specifies that a decision should be made or such other date as the Contractor may subsequently have specified in writing, the VEP shall be deemed rejected.

The Amendment effecting the necessary modification of the Contract will establish the net savings agreed on, provide for adjustment of the contract prices, and indicate the net savings. The Contractor shall absorb all costs incurred in preparing a VEP. Reasonably incurred costs for reviewing and administering a VEP will be borne by the County. The County may establish any reasonable conditions it deems appropriate for consideration, approval, and implementation of the VEP. The Contractor's 50 percent share of the net savings shall constitute full compensation to it, including by way of illustration and not limitation compensation for time, for effecting all changes pursuant to the Amendment.

Unless specifically provided for in the Amendment authorizing the VEP, acceptance of the VEP and performance of the work thereunder will not change the Contract Term limit.

The County may adopt a VEP for general use in contracts administered by the County if it determines that the VEP is suitable for application to other contracts. A VEP identical with or similar to a previously submitted VEP will be eligible for consideration and compensation under these provisions if it has not been previously adopted for general application to other contracts administered by the County. When a VEP is adopted for general use, compensation pursuant to these requirements will be applied only to those awarded contracts for which the VEP was submitted prior to the date of adoption of the VEP.

If a VEP is based on or is similar to a change in the plans, specifications, or special provisions adopted by the County prior to submission of the VEP, as determined by the County, the County will not accept the VEP.

The County will be the sole judge of the acceptability of a VEP. The requirements herein apply to each VEP initiated, developed, and identified as such by the Contractor at the time of its submission to the County. However, nothing herein shall be construed as requiring the County to consider or approve a VEP, and the decision to enter into an Amendment to the contract to accommodate a VEP shall be in the County's sole discretion.

Subject to the provisions contained herein, the County, or any other public agency with the County's permission, shall have the right to use all or part of an accepted VEP without obligation or compensation of any kind to the Contractor.

If a VEP is accepted by the County, any provisions herein that pertain to the adjustment of contract unit prices attributable to alterations of contract quantities will not apply to the items adjusted or deleted as a result of putting the VEP into effect by an Amendment.

#### 17. EMPLOYMENT DISCRIMINATION BY CONTRACTOR PROHIBITED

During the performance of its work pursuant to this Contract:

- A. The Contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, sexual orientation, gender identity, national origin, age, disability or on any other basis prohibited by state law. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
- B. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation will be deemed sufficient for meeting the requirements of this section.
- C. The Contractor will state in all solicitations or advertisements for employees that it places or causes to be placed that such Contractor is an Equal Opportunity Employer.
- D. The Contractor will comply with the provisions of the Americans with Disabilities Act of 1990 ("ADA"), which prohibits discrimination against individuals with disabilities in employment and mandates that disabled individuals be provided access to publicly and privately provided services and activities.
- E. The Contractor must include the provisions of the foregoing paragraphs in every subcontract or purchase order of more than \$10,000.00 relating to this Contract so that the provisions will be binding upon each subcontractor or vendor.

#### 18. EMPLOYMENT OF UNAUTHORIZED ALIENS PROHIBITED

In accordance with §2.2-4311.1 of the Code of Virginia, as amended, the Contractor must not during the performance of this Contract knowingly employ an unauthorized alien, as that term is defined in the federal Immigration Reform and Control Act of 1986.

#### 19. DRUG-FREE WORKPLACE TO BE MAINTAINED BY CONTRACTOR

During the performance of this Contract, the Contractor must: (i) provide a drug-free workplace for its employees; (ii) post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the Contractor's workplace and specifying the actions that will be taken against employees for violating such prohibition; (iii) state in all

solicitations or advertisements for employees placed by or on behalf of the Contractor that the Contractor maintains a drug-free workplace; and (iv) include the provisions of the foregoing clauses in every subcontract or purchase order of more than \$10,000.00 relating to this Contract so that the provisions will be binding upon each subcontractor or vendor.

For the purposes of this section, "workplace" means the site(s) for the performance of the work required by this Contract.

#### 20. \*SEXUAL HARASSMENT POLICY

If the Contractor employs more than five employees, the Contractor shall (i) provide annual training on the Contractor's sexual harassment policy to all supervisors and employees providing services in the Commonwealth, except such supervisors or employees that are required to complete sexual harassment training provided by the Department of Human Resource Management, and (ii) post the Contractor's sexual harassment policy in (a) a conspicuous public place in each building located in the Commonwealth that the Contractor owns or leases for business purposes and (b) the Contractor's employee handbook.

#### 21. COVID-19 VACCINATION POLICY FOR CONTRACTORS

Due to the ongoing COVID-19 pandemic, the County has taken various steps to protect the welfare, health, safety, and comfort of the workforce and public at large. As part of these steps, the County has implemented various requirements with respect to health and safety including policies with respect to social distancing, the use of face-coverings and vaccine mandates. To protect the County's workforce and the public at large, all employees and subcontractors of the Contractor who are assigned to this Contract, should be fully vaccinated against COVID-19. Any contractor employee or subcontractor who is not fully vaccinated should be following a weekly testing protocol as established by the Contractor, unless exempt pursuant to a valid reasonable accommodation under state or federal law.

#### 22. PROJECT STAFF

The County has the right to reasonably reject staff or subcontractors whom the Contractor assigns to the Project. The Contractor must then provide replacement staff or subcontractors satisfactory to the County in a timely manner and at no additional cost to the County. The day-to-day supervision and control of the Contractor's employees and its subcontractors is the sole responsibility of the Contractor.

#### 23. FAILURE TO DELIVER

If the Contractor fails to deliver goods or services in accordance with the Contract terms and conditions, the County, after notice to the Contractor, may procure the goods or services from other sources and hold the Contractor responsible for any resulting additional purchase and administrative costs. The County shall be entitled to offset such costs against any sums owed by the County to the Contractor. However, if public necessity requires the use of nonconforming materials or supplies, they may be accepted at a reduction in price to be determined solely by the County.

#### 24. UNSATISFACTORY WORK

If any of the work done, or material, goods, or equipment provided by the Contractor, is unsatisfactory to the County the Contractor must, upon notice from the County, immediately remove at the Contractor's expense such unsatisfactory work, material, goods, or equipment and replace the same with work, material, goods, or equipment satisfactory to the County. If the Contractor fails to do so after fifteen (15) days the County shall have the right to remove or replace the rejected work, material, goods, or equipment at the expense of the Contractor and offset the expense and administrative costs against any

sums owed to the Contractor. This provision applies during the Contract term and during any warranty or guarantee period. At the Project Officer's discretion, rather than correction or replacement of the work, an appropriate adjustment to the Contract Amount may be made.

#### 25. TERMINATION

The County may terminate this Contract at any time as follows: (1) for cause, if, as determined by the County, the Contractor is in breach or default or has failed to perform the Work satisfactorily; or (2) for the convenience of the County.

Upon receipt of a notice of termination, the Contractor must not place any further orders or subcontracts for materials, services or facilities; must terminate all vendors and subcontracts, except as are necessary for the completion of any portion of the Work that the County did not terminate; and must immediately deliver all documents related to the terminated Work to the County.

Any purchases that the Contractor makes after the notice of termination will be the sole responsibility of the Contractor, unless the County has approved the purchases in writing as necessary for completion of any portion of the Work that the County did not terminate.

If any court of competent jurisdiction finds a termination for cause by the County to be improper, then the termination will be deemed a termination for convenience.

#### A. TERMINATION FOR CAUSE, INCLUDING BREACH AND DEFAULT; CURE

1. Termination for Unsatisfactory Performance. If the County determines that the Contractor has failed to perform satisfactorily, then the County will give the Contractor written notice of such failure(s) and the opportunity to cure them within 15 days or any other period specified by the County ("Cure Period"). If the Contractor fails to cure within the Cure Period, the County may terminate the Contract for failure to provide satisfactory performance by providing written notice with a termination date. Upon such termination, the Contractor may apply for compensation for Contract services that the County previously accepted ("Termination Costs"), unless payment is otherwise barred by the Contract. The Contractor must submit any request for Termination Costs, with all supporting documentation, to the County Project Officer within 30 days after the expiration of the Cure Period. The County may accept or reject the request for Termination Costs, in whole or in part, and may notify the Contractor of its decision within a reasonable time.

In the event of termination by the County for failure to perform satisfactorily, the Contractor must continue to provide its services as previously scheduled through the termination date, and the County must continue to pay all fees and charges incurred through the termination date.

2. <u>Termination for Breach or Default</u>. If the County terminates the Contract for default or breach of any Contract provision or condition, then the termination will be immediate after notice of termination to the Contractor (unless the County provides for an opportunity to cure), and the Contractor will not be permitted to seek Termination Costs.

Upon any termination pursuant to this section, the Contractor will be liable to the County for costs that the County must expend to complete the Work, including costs resulting from any related delays and from unsatisfactory or non-compliant work performed by the Contractor or its subcontractors. The County will deduct such costs from any amount due

to the Contractor; or if the County does not owe the Contractor, the Contractor must promptly pay the costs within 15 days of a demand by the County. This section does not limit the County's recovery of any other damages to which it is entitled by law.

Except as otherwise directed by the County, the Contractor must stop work on the date of receipt the notice of the termination.

#### B. TERMINATION FOR THE CONVENIENCE OF THE COUNTY

The County may terminate this Contract in whole or in part whenever the Purchasing Agent determines that termination is in the County's best interest. The County will give the Contractor at least 15 days' notice in writing. The notice must specify the extent to which the Contract is terminated and the effective termination date. The Contractor will be entitled to Termination Costs, as defined above, plus any other reasonable amounts that the parties might negotiate; but no amount will be allowed for anticipatory profits.

Except as otherwise directed by the County, the Contractor must stop work on the date of receipt of the notice of the termination.

### 26. <u>INDEMNIFICATION</u>

The Contractor covenants for itself, its employees and its subcontractors to save, defend, hold harmless and indemnify the County and all of its elected and appointed officials, officers, current and former employees, agents, departments, agencies, boards and commissions (collectively the "County Indemnitees") from and against any and all claims made by third parties for any and all losses, damages, injuries, fines, penalties, costs (including court costs and attorneys' fees), charges, liability, demands or exposure resulting from, arising out of or in any way connected with the Contractor's acts or omissions, including the acts or omissions of its employees, vendors, delivery drivers and/or subcontractors, in performance or nonperformance of the Contract. This duty to save, defend, hold harmless and indemnify will survive the termination of this Contract. If the Contractor fails or refuses to fulfill its obligations contained in this section, the Contractor must reimburse the County for any and all resulting payments and expenses, including reasonable attorneys' fees. The Contractor must pay such expenses upon demand by the County, and failure to do so may result in the County withholding such amounts from any payments to the Contractor under this Contract.

#### 27. INTELLECTUAL PROPERTY INDEMNIFICATION

The Contractor warrants and guarantees that in providing services under this Contract neither the Contractor nor any subcontractor is infringing on the intellectual property rights (including, but not limited to, copyright, patent, mask and trademark) of third parties.

If the Contractor or any of its employees or subcontractors uses any design, device, work or material that is covered by patent or copyright, it is understood that the Contract Amount includes all royalties, licensing fees, and any other costs arising from such use in connection with the Work under this Contract.

The Contractor covenants for itself, its employees and its subcontractors to save, defend, hold harmless, and indemnify the County Indemnitees, as defined above, from and against any and all claims, losses, damages, injuries, fines, penalties, costs (including court costs and attorneys' fees), charges, liability or exposure for infringement of or on account of any trademark, copyright, patented or unpatented invention, process or article manufactured or used in the performance of this Contract. This duty to save, defend, hold harmless and indemnify will survive the termination of this Contract. If the Contractor fails

or refuses to fulfill its obligations contained in this section, the Contractor must reimburse the County for any and all resulting payments and expenses, including reasonable attorneys' fees. The Contractor must pay such expenses upon demand by the County, and failure to do so may result in the County withholding such amounts from any payments to the Contractor under this Contract.

#### 28. <u>COPYRIGHT</u>

By this Contract, the Contractor irrevocably transfers, assigns, sets over and conveys to the County all rights, title and interest, including the sole exclusive and complete copyright interest, in any and all copyrightable works created pursuant to this Contract. The Contractor will execute any documents that the County requests to formalize such transfer or assignment.

The rights granted to the County by this section are irrevocable and may not be rescinded or modified, including in connection with or as a result of the termination of or a dispute concerning this Contract. The Contractor may not use subcontractors or third parties to develop or provide input into any copyrightable materials produced pursuant to this Contract without the County's advance written approval and unless the Contractor includes this Copyright provision in any contract or agreement with such subcontractors or third parties related to this Contract.

### 29. OWNERSHIP AND RETURN OF RECORDS

This Contract does not confer on the Contractor any ownership rights or rights to use or disclose the County's data or inputs.

All drawings, specifications, blueprints, data, information, findings, memoranda, correspondence, documents or records of any type, whether written, oral or electronic, and all documents generated by the Contractor or its subcontractors as a result of this Contract (collectively "Records") are the exclusive property of the County and must be provided or returned to the County upon completion, termination, or cancellation of this Contract. The Contractor will not use or willingly cause or allow such materials to be used for any purpose other than performance of this Contract without the written consent of the County.

The Records are confidential, and the Contractor will neither release the Records nor share their contents. The Contractor will refer all inquiries regarding the status of any Record to the Project Officer or to his or her designee. At the County's request, the Contractor will deliver all Records, including hard copies of electronic records, to the Project Officer and will destroy all electronic Records.

The Contractor agrees to include the provisions of this section as part of any contract or agreement related to this Contract into which it enters with subcontractors or other third parties.

The provisions of this section will survive any termination or cancellation of this Contract.

#### 30. CONFIDENTIAL INFORMATION

The Contractor and its employees, agents and subcontractors will hold as confidential all County information obtained under this Contract. Confidential information includes, but is not limited to, nonpublic personal information; personal health information (PHI); social security numbers; addresses; dates of birth; other contact information or medical information about a person; and information pertaining to products, operations, systems, customers, prospective customers, techniques, intentions, processes, plans and expertise. The Contractor must take reasonable measures to ensure that all of its employees, agents and subcontractors are informed of and abide by this requirement.

#### 31. ETHICS IN PUBLIC CONTRACTING

This Contract incorporates by reference Article 9 of the Arlington County Purchasing Resolution, as well as all state and federal laws related to ethics, conflicts of interest or bribery, including the State and Local Government Conflict of Interests Act (Code of Virginia § 2.2-3100 et seq.), the Virginia Governmental Frauds Act (Code of Virginia § 18.2-498.1 et seq.) and Articles 2 and 3 of Chapter 10 of Title 18.2 of the Code of Virginia, as amended (§ 18.2-438 et seq.). The Contractor certifies that its bid was made without

collusion or fraud; that it has not offered or received any kickbacks or inducements from any other offeror, supplier, manufacturer or subcontractor; and that it has not conferred on any public employee having official responsibility for this procurement any payment, loan, subscription, advance, deposit of money, services or anything of more than nominal value, present or promised, unless consideration of substantially equal or greater value was exchanged.

#### 32. COUNTY EMPLOYEES

No Arlington County employee may share in any part of this Contract or receive any benefit from the Contract that is not available to the general public.

#### 33. FORCE MAJEURE

Neither party will be held responsible for failure to perform the duties and responsibilities imposed by this Contract if such failure is due to a fire, riot, rebellion, natural disaster, war, act of terrorism or act of God that is beyond the control of the party and that makes performance impossible or illegal, unless otherwise specified in the Contract, provided that the affected party gives notice to the other party as soon as practicable after the force majeure event, including reasonable detail and the expected duration of the event's effect on the party.

#### 34. <u>AUTHORITY TO TRANSACT BUSINESS</u>

The Contractor must, pursuant to Code of Virginia § 2.2-4311.2, be and remain authorized to transact business in the Commonwealth of Virginia during the entire term of this Contract. Otherwise, the Contract is voidable at the sole option of and with no expense to the County.

#### 35. RELATION TO THE COUNTY

The Contractor is an independent contractor, and neither the Contractor nor its employees or subcontractors will be considered employees, servants or agents of the County. The County will not be responsible for any negligence or other wrongdoing by the Contractor or its employees, servants or agents. The County will not withhold payments to the Contractor for any federal or state unemployment taxes, federal or state income taxes or Social Security tax or for any other benefits. The County will not provide to the Contractor any insurance coverage or other benefits, including workers' compensation.

#### 36. <u>ANTITRUST</u>

The Contractor conveys, sells, assigns and transfers to the County all rights, title and interest in and to all causes of action under state or federal antitrust laws that the Contractor may have relating to this Contract.

#### 37. REPORT STANDARDS

The Contractor must submit all written reports required by this Contract for advance review in a format approved by the Project Officer. Reports must be accurate and grammatically correct and should not contain spelling errors. The Contractor will bear the cost of correcting grammatical or spelling errors and

inaccurate report data and of other revisions that are required to bring the report(s) into compliance with this section.

Whenever possible, proposals must comply with the following guidelines:

- printed double-sided on at least 30% recycled-content and/or tree-free paper
- recyclable and/or easily removable covers or binders made from recycled materials (proposals with glued bindings that meet all other requirements are acceptable)
- avoid use of plastic covers or dividers
- avoid unnecessary attachments or documents or superfluous use of paper (e.g. separate title sheets or chapter dividers)

#### 38. AUDIT

The Contractor must retain all books, records and other documents related to this Contract for at least five (5) years, unless otherwise specified in the Contract, or such period of time required by the County's funding partner(s), if any, whichever is greater, after the final payment and must allow the County or its authorized agents to examine the documents during this period and during the Contract Term. The Contractor must provide any requested documents to the County for examination within 15 days of the request, at the Contractor's expense. Should the County's examination reveal any overcharging by the Contractor, the Contractor must, within 30 days of County's request, reimburse the County for the overcharges and for the reasonable costs of the County's examination, including, but not limited to, the services of external audit firm and attorney's fees; or the County may deduct the overcharges and examination costs from any amount that the County owes to the Contractor. If the Contractor wishes to destroy or dispose of any records related to this Contract (including confidential records to which the County does not have ready access) within five (5) years after the final payment, unless otherwise specified in the Contract, or such period of time required by the County's funding partner(s), if any, whichever is greater, the Contractor must give the County at least 30 days' notice and must not dispose of the documents if the County objects.

The Purchasing Agent may require the Contractor to demonstrate that it has the necessary facilities, ability, and financial resources to comply with the Contract and furnish the service, material or goods specified herein in a satisfactory manner at any time during the term of this Contract.

#### 39. ASSIGNMENT

The Contractor may not assign, transfer, convey or otherwise dispose of any award or any of its rights, obligations or interests under this Contract without the prior written consent of the County.

#### 40. AMENDMENTS

This Contract may not be modified except by written amendment executed by persons duly authorized to bind the Contractor and the County.

#### 41. ARLINGTON COUNTY PURCHASING RESOLUTION AND COUNTY POLICIES

Nothing in this Contract waives any provision of the Arlington County Purchasing Resolution, which is incorporated herein by reference, or any applicable County policy.

#### 42. <u>DISPUTE RESOLUTION</u>

All disputes arising under this Agreement or concerning its interpretation, whether involving law or fact and including but not limited to claims for additional work, compensation or time, and all claims for

alleged breach of contract must be submitted in writing to the Project Officer as soon as the basis for the claim arises. In accordance with the Arlington County Purchasing Resolution, claims denied by the Project Officer may be submitted to the County Manager in writing no later than 60 days after the final payment. The time limit for a final written decision by the County Manager is 30 days. Procedures concerning contractual claims, disputes, administrative appeals and protests are contained in the Arlington County Purchasing Resolution. The Contractor must continue to work as scheduled pending a decision of the Project Officer, County Manager, County Board or a court of law.

#### 43. APPLICABLE LAW, FORUM, VENUE, AND JURISDICTION

This Contract is governed in all respects by the laws of the Commonwealth of Virginia; and the jurisdiction, forum and venue for any litigation concerning the Contract or the Work is in the Circuit Court for Arlington County, Virginia, and in no other court.

#### 44. ARBITRATION

No claim arising under or related to this Contract may be subject to arbitration.

#### 45. NONEXCLUSIVITY OF REMEDIES

All remedies available to the County under this Contract are cumulative, and no remedy will be exclusive of any other at law or in equity.

#### 46. NO WAIVER

The failure to exercise a right provided for in this Contract will not be a subsequent waiver of the same right or of any other right.

#### 47. **SEVERABILITY**

The sections, paragraphs, clauses, sentences, and phrases of this Contract are severable; and if any section, paragraph, clause, sentence or phrase of this Contract is declared invalid by a court of competent jurisdiction, the rest of the Contract will remain in effect.

#### 48. ATTORNEY'S FEES

In the event that the County prevails in any legal action or proceeding brought by the County to enforce any provision of this Contract, the Contractor will pay the County's reasonable attorney's fees and expenses.

#### 49. SURVIVAL OF TERMS

In addition to any statement that a specific term or paragraph survives the expiration or termination of this Contract, the following sections also survive: INDEMNIFICATION; INTELLECTUAL PROPERTY INDEMNIFICATION; RELATION TO COUNTY; OWNERSHIP AND RETURN OF RECORDS; AUDIT; COPYRIGHT; DISPUTE RESOLUTION; APPLICABLE LAW AND JURISDICTION; ATTORNEY'S FEES, AND CONFIDENTIAL INFORMATION.

#### 50. HEADINGS

The section headings in this Contract are inserted only for convenience and do not affect the substance of the Contract or limit the sections' scope.

#### 51. AMBIGUITIES

The parties and their counsel have participated fully in the drafting of this Agreement; and any rule that ambiguities are to be resolved against the drafting party does not apply. The language in this Agreement is to be interpreted as to its plain meaning and not strictly for or against any party.

#### 52. NOTICES

Unless otherwise provided in writing, all legal notices and other formal communications required by this Contract are deemed to have been given when either (a) delivered in person; (b) delivered by an agent, such as a delivery service; or (c) deposited in the United States mail, postage prepaid, certified or registered and addressed as follows:

#### TO THE CONTRACTOR:

Antonio Landivar 2350 Duke Street, Suite B Alexandria, Virginia 22314 Phone: (703) 299-9180 ext 4

Email: alandivar@landivarassociates.com

#### TO THE COUNTY:

Cynthia Wilson, Project Officer
DES-Facilities Design & Construction
1400 N Uhle Street, Suite 403
Arlington, Virginia 22201

Phone: (703) 228-4438

Email: cwilson@arlingtonva.us

#### <u>AND</u>

Dr. Sharon T. Lewis, LL.M, MPS, VCO, CPPB Purchasing Agent Arlington County, Virginia 2100 Clarendon Boulevard, Suite 500 Arlington, Virginia 22201

Phone: (703) 228-3294

Email: <a href="mailto:slewis1@arlingtonva.us">slewis1@arlingtonva.us</a>

#### TO COUNTY MANAGER'S OFFICE (FOR PROJECT CLAIMS):

County Manager Arlington County, Virginia 2100 Clarendon Boulevard, Suite 318 Arlington, Virginia 22201

#### 53. NON-DISCRIMINATION NOTICE

Arlington County does not discriminate against faith-based organizations.

#### 54. INSURANCE, PAYMENT AND PERFORMANCE BONDS

The Contractor shall maintain the required insurance coverage and payment and performance bonds as set forth in the Invitation to Bid through completion of the Contract, including all warranty and guarantee periods.

#### 55. MATERIAL CHANGES

The Contractor shall notify Purchasing Agent within seven days of any material changes in its operation that relate to any matter attested regarding certifications on its bid form.

#### 56. <u>CONTRACTOR PERFORMANCE EVALUATION</u>

Arlington County will perform written evaluations of the Contractor's performance at various intervals throughout the term of this Contract. The evaluations will address, at a minimum, the Contractor's work/performance, quality, cost controls, schedule, timeliness and sub-contractor management. The Project Officer shall be responsible for completing the evaluations and providing a copy to the Contractor and County Procurement Officer.

#### **57. COUNTERPARTS**

This Agreement may be executed in one or more counterparts and all of such counterparts shall together constitute one and the same instrument. Original signatures transmitted and received via facsimile or other electronic transmission (e.g., PDF or similar format) are true and valid signatures for all purposes hereunder and shall be effective as delivery of a manually executed original counterpart.

WITNESS these signatures:

LANDIVAR & ASSOCIATES, LLC.
AUTHORIZED Autonio Landivar
E391CAAC94D6471
Antonio Landivar NAME:
TITLE:Managing Member
DATE:12/21/2022

CONNECTION WITH ANY OF THE SYSTEMS HEREIN SPECIFIED. . THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY ANY OF THE FOREGOING AUTHORITIES, AND PAY FOR ALL OTHER COSTS IN CONNECTION WITH THE WORK. ALL CERTIFICATES

SHALL BE IN DUPLICATE AND SHALL BE DELIVERED TO THE ARCHITECT/ENGINEER/OWNER. 3.  $\,$  THE SITE, LOCATION AND ROUTING OF SYSTEMS INDICATED TO HAVE NEW CONNECTIONS MADE TO THEM ARE SHOWN AS ACCURATELY AS FIELD CONDITIONS WOULD PERMIT. BIDDERS SHALL VISIT THE SITE AND THOROUGHLY EXAMINE THE CONTRACT DRAWINGS. BIDDERS WHO DO NOT VISIT THE SITE MAY BE UNILATERALLY NOT PERMITTED TO SUBMIT A BID IF THE OWNER SO DESIGNATES. ALL EXISTING CONDITIONS SHALL BE EXAMINED AND THEIR EXACT LOCATIONS VERIFIED. THE CONTRACTOR SHALL REPORT TO THE ARCHITECT/ENGINEER/OWNER BEFORE SUBMITTING A BID, ANY CONDITIONS WHICH MIGHT MAKE INSTALLATION OF REQUIRED EQUIPMENT A PROBLEM. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO INVESTIGATE CONDITIONS OR MISUNDERSTANDINGS OF THE CONTRACTUAL REQUIREMENTS.

l.  $\;$  THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT NOT INDICATED TO BE REUSED TO A DESIGNATED LOCATION AT THE PROJECT SITE. AFTER THE EQUIPMENT HAS BEEN ASSEMBLED FOR THE OWNER'S INSPECTION AND POSSIBLE RETENTION, ALL EQUIPMENT NOT TO BE RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR. ALL BUILDING SYSTEMS SHALL REMAIN IN SERVICE UNLESS INDICATED OTHERWISE. ALL OUTAGES OR INTERRUPTIONS SHALL BE KEPT TO MINIMUM DURATION. NOTIFY THE OWNER 48 HOURS IN ADVANCE OF ANY OUTAGE OR INTERRUPTION

. THE CONTRACTOR SHALL INSTALL AND CONNECT ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE AND, UNLESS OTHERWISE SHOWN OR SPECIFIED, FOLLOW THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS AND FURNISH AND INSTALL ALL REQUIRED AUXILIARY ITEMS COMPLETE. . DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC AND FOR BIDDING PURPOSES ONLY. WHILE THE DRAWINGS

ARE GENERALLY TO SCALE AND ARE AS ACCURATE AS THE SCALE WILL PERMIT, ALL IMPORTANT DIMENSIONS SHALL BE DETERMINED IN THE FIELD. THEY ARE NOT TO BE CONSIDERED TO BE ERECTION DRAWINGS. COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE AMONG MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL ITEMS. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS IN CIRCUITRY AND OTHER ITEMS

REQUIRED TO INSTALL THE WORK WITHOUT INTERFERENCES. 8. THE CONTRACTOR SHALL TEST ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT AND DEMONSTRATE TO THE OWNER ITS PROPER OPERATIONS. ALL NEW EQUIPMENT SHALL BE MOUNTED VIBRATION FREE.

9. ALL EQUIPMENT AND WORKMANSHIP SHALL BE GUARANTEED IN FULL FROM ALL DEFECTS FOR ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THIS WORK. 10. ALL EQUIPMENT INSTALLED SHALL BE NEW AND SHALL CONFORM IN ALL RESPECTS TO THE LATEST APPROVED

STANDARDS OF IEEE, ANSI, NEMA AND UNDERWRITERS LABORATORIES, INC., UNLESS INDICATED OTHERWISE. 11. SHOP DRAWINGS AND PRODUCT DATA: SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR ALL NEW MATERIAL AND EQUIPMENT PROVIDED UNDER THIS WORK. MATERIAL AND EQUIPMENT SHALL BE SUBMITTED AND APPROVED BEFORE ORDERING. SUBMIT A MINIMUM OF 6 COPIES TO THE ARCHITECT/ENGINEER/OWNER FOR REVIEW. ELECTRONIC SUBMISSIONS ARE ACCEPTABLE. SUBSTITUTION ARE SUBJECT TO DISCRETION OF THE ARCHITECT/ENGINEER/OWNER. IF CONSIDERED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND SHALL MEET THE INTENT OF THE CONSTRUCTION DOCUMENTS

12. REPAIR OF EXISTING WORK: ALL WORK SHALL BE CAREFULLY LAID OUT IN ADVANCED, AND WHERE CUTTING. CHANNELING, CHASING, OR DRILLING OF FLOORS, WALL, PARTITIONS, CEILINGS, OR OTHER SURFACES IS NECESSARY FOR THE PROPER INSTALLATION, SUPPORT, OR ANCHORAGE OF THE CONDUIT, RACEWAYS OR OTHER ELECTRICAL WORK, THIS WORK SHALL BE CAREFULLY DONE, AND ANY DAMAGE TO BUILDING, PIPING, OR EQUIPMENT SHALL BE REPAIRED BY SKILLED MECHANICS OF THE TRADE INVOLVED, AT NO ADDITIONAL COST TO THE OWNER. METHODS FOR AND EXACT LOCATIONS OF PROPOSED CUTTING, CHANNELING, CHASING OR DRILLING OF EXISTING CONSTRUCTION SHALL BE AS APPROVED BY THE OWNER.

13. THE CONTRACTOR SHALL REPAIR ALL WALL, CEILING, FLOOR, OR ROOF OPENINGS WHICH ARE CREATED BY DEMOLITION OR PENETRATION. THE REPAIRS SHALL BE WITH MATERIALS AND FINISHES TO MATCH EXISTING. ALL FIRE RATED PENETRATIONS SHALL BE SEALED WITH SUITABLE MATERIALS TO PRESERVE FIRE RATED INTEGRITY. 14. DEFINITIONS: "PROVIDE" UNDER THIS CONTRACT IS DEFINED AS FURNISH AND INSTALL. "CONCEALED" UNDER THIS CONTRACT IS DEFINED AS WITHIN ARCHITECTURAL WALLS AND ABOVE CEILINGS. "EXPOSED" UNDER THIS CONTRACT IS DEFINED AS VISIBLE TO VIEW, INCLUDING ELECTRICAL ROOMS. "INDICATED" UNDER THIS CONTRACT IS DEFINED AS SHOWN IN THE CONTRACT DOCUMENTS. "CIRCUITRY" UNDER THIS CONTRACT IS DEFINED AS CONDUIT, FEEDER AND OR CIRCUIT. "(SHARED)" UNDER THIS CONTRACT IS DEFINED AS SPLIT CIRCUIT; CONTRACTOR SHALL SPLICE THE CIRCUIT AT THE SOURCE PANELBOARD AND RUN SEPARATE WIRING TO THE LOADS INDICATED.

15. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE CONTRACT AREA AND AL OTHER AREAS USED FOR STORAGE, STAGING, ETC.

16. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER/OWNER WHEN THE PROJECT IS APPROXIMATELY 75% COMPLETED IN ORDER TO SCHEDULE A PRE-FINAL REVIEW OF CONSTRUCTION. NO WORK SHALL BE CONCEALED BY CEILINGS, WALLS, ETC. FINAL REVIEW SHALL BE SCHEDULED AT 100% COMPLETION. ALL PUNCH LIST ITEMS MUST BE ACCOMPLISHED PRIOR TO FINAL ACCEPTANCE.

17. THE CONTRACTOR SHALL PREPARE A COMPREHENSIVE METHOD OF PROCEDURE AND SUBMIT IT TO THE OWNER WITH SHOP DRAWINGS FOR REVIEW. THE SUBMITTAL SHALL ITEMIZE METHODS OF PROCEDURE FOR ALL POTENTIAL EMERGENCY SITUATIONS AND SHALL INCLUDE A LIST OF PERSONS REPRESENTING THE OWNER AND THE CONTRACTOR ALONG WITH DAYTIME EMERGENCY PHONE NUMBERS INDICATING WHO SHALL BE CONTACTED IN THE EVENT OF AN EMERGENCY. THIS LIST SHALL BE DISTRIBUTED TO THE OWNER'S REPRESENTATIVE AND THE CONTRACTORS SUPERINTENDENT OR FOREMAN AT THE SITE. EMERGENCY SITUATIONS SHALL INCLUDE BUT NOT TEMPERATURE CONTROL OUTAGES AND OWNER'S EQUIPMENT DAMAGE. THE COMPREHENSIVE METHOD OF

PROCEDURE SHALL BE APPROVED BY THE OWNER PRIOR TO COMMENCEMENT OF ANY WORK. 18. PROVIDE TEMPORARY SERVICE FOR LIGHTING AND POWER EQUIPMENT (DRILLS, SAW, ETC.). VERIFY TEMPORARY REQUIREMENTS WITH GENERAL CONTRACTOR. TEMPORARY LIGHTING AND POWER SHALL MEET OSHA REQUIREMENTS AND LOCAL CODE. TEMPORARY POWER SHALL BE 120 VOLTS.

19. PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE PROTECTION AND BARRIERS AFTER DEMOLITION OPERATIONS ARE COMPLETE.

20. FINAL TESTING: AT THE TIME OF FINAL INSPECTION AND TESTS, ALL CONNECTIONS AT PANELBOARDS, DEVICES AND EQUIPMENT AND ALL SPLICES MUST BE COMPLETED. EACH BRANCH CIRCUIT AND ITS RESPECTIVE CONNECTED EQUIPMENT MUST TEST FREE OF SHORT CIRCUITS. UPON COMPLETION OF THE WORK, CLEAN AND POLISH ALL EXPOSED SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. 21. CONTRACTOR SHALL PROVIDE ACCESS PANEL FOR JUNCTION BOXES, DISCONNECT SWITCHES, OR OTHER

B. RACEWAYS, BOXES AND CONDUITS

DEVICES WHICH REQUIRE SERVICE ACCESS PER NEC.

1. OUTDOORS WIRING METHODS: USE THE FOLLOWING WIRING METHODS: (a) EXPOSED: CONDUCTORS IN RIGID METAL CONDUIT. (b) CONCEALED: CONDUCTORS IN RIGID METAL CONDUIT. (c) UNDERGROUND: CONDUCTORS IN RIGID NONMETALLIC CONDUIT, UNLESS OTHERWISE NOTED. (d) CONNECTION TO VIBRATING EQUIPMENT: CONDUCTORS IN LIQUIDTIGHT FLEXIBLE METAL CONDUIT; LIMITATION: 3'-0" MAX LENGTH. (e) BOXES AND

ENCLOSURES: NEMA TYPE 3R. INDOORS WIRING METHODS: USE THE FOLLOWING METHODS: (a) CONNECTION TO VIBRATING EQUIPMENT CONDUCTORS IN FLEXIBLE METAL CONDUIT, EXCEPT IN WET OR DAMP LOCATIONS USE LIQUIDTIGHT FLEXIBLE METAL CONDUIT; LIMITATION: 3'-0" MAX LENGTH. (b) DAMP OR WET LOCATIONS: CONDUCTORS IN RIGID STEEL CONDUIT. (c) EXPOSED: CONDUCTORS IN ELECTRICAL METALLIC TUBING. (d) CONCEALED: CONDUCTORS IN ELECTRICAL METALLIC TUBING OR, AS APPROVED, METAL-CLAD (MC) CABLE. (e) BOXES AND ENCLOSURES: NEMA TYPE 1. EXCEPT IN DAMP OR WET LOCATIONS USE NEMA TYPE 4, STAINLESS STEEL.

3. ALL CIRCUITRY IN FINISHED AREAS SHALL BE RUN CONCEALED. 4. MINIMUM SIZE CONDUIT SHALL BE 1/2". i.  $\,$  EMT CONNECTORS AND COUPLINGS SHALL BE OF THE ALL-STEEL, COMPRESSION  $\,$  TYPE WITH INSULATED THROAT  $\,$ 6. EXPOSED AND CONCEALED CIRCUITRY (WHETHER CONDUIT AND WIRE OR CABLE) SHALL BE RUN TIGHT TO CEILING SLAB (AS HIGH AS POSSIBLE TO MAXIMIZE HEADROOM) IN A NEAT, WORKMANLIKE MANNER. ALL RUNS SHALL BE

PARALLEL OR PERPENDICULAR TO BUILDING WALLS. Y. ALL CIRCUITRY RUNS INDICATED ARE DIAGRAMMATIC. THE CONTRACTOR SHALL DETERMINE IN THE FIELD THE 8. ALL EMPTY RACEWAYS SHALL CONTAIN A DRAG WIRE. EMPTY RACEWAYS 2" OR LARGER IN SIZE SHALL HAVE A

MAXIMUM OF 3 - 90 DEGREE BENDS. UNLESS OTHERWISE NOTED, PROVIDE 3/4" EMT FROM EACH TELEPHONE OR COMMUNICATIONS OUTLET DEVICE TO CEILING SPACE. 9. EXPOSED LOW VOLTAGE WIRING SHALL BE INSTALLED IN A RACEWAY, UNLESS OTHERWISE NOTED. 10. OUTLET BOXES SHALL BE A MINIMUM OF 4" SQUARE WITH THE APPROPRIATE PLASTER RING OR TILE COVER. 11. WHERE EXISTING WALLS ARE FURRED OUT AND DEVICES ARE NOT NOTED TO BE REMOVED, PROVIDE EXTENSION

BOXES TO BRING FACE OF DEVICES FLUSH WITH NEW FINISH SURFACE AND CONTINUE IN SERVICE.

1. ALL CONDUCTORS SHALL BE COPPER, MINIMUM #12 WITH 600 VOLT TYPE "THHN-THWN" INSULATION. CONDUCTORS #8 AND LARGER SHALL BE STRANDED.

2. WHERE APPROVED BY THE AUTHORITIES HAVING JURISDICTION, "MC" CABLE MAY BE UTILIZED FOR INTERIOR BRANCH CIRCUITS. 3. ALL "MC" CABLE SHALL HAVE AN INTERNAL GREEN INSULATED EQUIPMENT GROUND CONDUCTOR.

4. ALL 120 VOLT CIRCUIT HOMERUNS WHICH ARE OVER 100 LINEAR FEET SHALL BE #10 CONDUCTORS MINIMUM.

5. RUN MULTIPLE HOMERUNS TO ALTERNATELY NUMBERED PANELBOARD CIRCUITS (I.E., 1, 3, 5)

D. <u>WIRING DEVICES AND TELEPHONE/DATA OUTLETS</u> 1. THE LOCATION OF ALL WIRING DEVICES AND TELEPHONE/DATA OUTLETS SHALL BE VERIFIED BEFORE INSTALLATION WITH THE ARCHITECT. THE ARCHITECT MAY, AT HIS OPTION, RELOCATE ANY DEVICE 5 FEET AT NO

CHARGE TO THE OWNER. 2.  $\,$  WHERE TWO OR MORE DEVICES ARE SHOWN TOGETHER ON THE PLANS, A MULTI-GANG BOX AND PLATE SHALL BE USED. DEVICES OF DIFFERENT VOLTAGES SHALL BE SEPARATED BY PERMANENTLY INSTALLED BOX PARTITIONS.

**ELECTRICAL SPECIFICATIONS (CONT.)** 

ALL OUTLETS SHOWN ON A WALL BACK TO BACK SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. DEVICE PLATES SHALL BE A FINISH AND COLOR SELECTED BY THE ARCHITECT. COORDINATE LIGHT SWITCHES SHOWN ON DRAWINGS WITH DOOR SWINGS. LOCATE LIGHT SWITCH ON LOCK SIDE OF

6. COORDINATE WALL MOUNTED TELEPHONE/DATA OUTLET LOCATIONS WITH THE ARCHITECT. TELEPHONE/DATA CONDUCTORS WILL BE INSTALLED BY OTHERS. ALL CONDUCTORS SHALL BE PLENUM RATED. PROVIDE FOR COMPLETE INSTALLATION OF FLOOR DEVICES INCLUDING ALL ACCESSORIES. WALL MOUNTED WIRING DEVICES SHALL BE A COLOR AS SELECTED BY THE ARCHITECT AND EQUAL TO THE FOLLOWING:

LEGRAND 2621 TWO-POLE SWITCH LEGRAND TM811CC **DUPLEX RECEPTACLE** LEGRAND 26352 DUPLEX RECEPTACLE TAMPER-RESISTANT LEGRAND TR20 DUPLEX RECEPTACLE WITH GFCI\* LEGRAND 2097 DUPLEX RECEPTACLE/USB CHARGER LEGRAND TR5362USB

\*GFCI - GROUND FAULT CIRCUIT INTERRUPTER

E. SUPPORTING DEVICES

INSTALL SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH NEC REQUIREMENTS AND ANY ADDITIONAL LOCAL CODES.

COORDINATE WITH THE BUILDING STRUCTURAL SYSTEM AND WITH OTHER ELECTRICAL INSTALLATIONS.

F. ELECTRICAL IDENTIFICATION

CONDUCTOR COLOR CODING: PROVIDE COLOR CODING FOR FEEDERS AND BRANCH CIRCUIT CONDUCTORS AS FOLLOWS: 240/120 VOLTS (PHASE A, BLACK; PHASE B, RED; NEUTRAL, WHITE; GROUND, GREEN) APPLY CIRCUIT/CONTROL/ITEM DESIGNATION LABELS OF ENGRAVED PLASTIC LAMINATE FOR POWER DISTRIBUTION

AND CONTROL COMPONENTS LISTED BELOW. APPLY EQUIPMENT IDENTIFICATION LABELS (MINIMUM 1" HIGH LETTERS) OF ENGRAVED PLASTIC-LAMINATE ON EACH MAJOR UNIT OF ELECTRICAL EQUIPMENT. APPLY LABELS FOR EACH UNIT OF THE FOLLOWING CATEGORIES OF ELECTRICAL EQUIPMENT.

a. PANELBOARDS, ELECTRICAL CABINETS AND ENCLOSURES. . ACCESS DOORS AND PANELS FOR CONCEALED ELECTRICAL ITEMS.

 ELECTRICAL SWITCHGEAR AND SWITCHBOARDS. d. MOTOR CONTROL CENTERS.

e. MOTOR STARTERS. PUSHBUTTON STATIONS

POWER TRANSFER EQUIPMENT. CONTACTORS.

REMOTE-CONTROLLED SWITCHES. DIMMERS. CONTROL DEVICES

m. POWER GENERATING UNITS. n. FIRE ALARM MASTER STATION OR CONTROL PANEL.

TRANSFORMERS

GROUND ELECTRICAL SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH NEC EXCEPT WHERE GROUNDING IN EXCESS OF NEC REQUIREMENTS IS INDICATED. ALL CIRCUITS SHALL CONTAIN AN INSULATED GROUNDING CONDUCTORS. ALL NEW RECEPTACLE CIRCUITS SHALL

CONTAIN A #12 INSULATED GROUNDING CONDUCTOR. SEPARATELY DERIVED SYSTEMS REQUIRED BY NEC TO BE GROUNDED SHALL BE GROUNDED AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

H. PANELBOARDS

ALL NEW ELECTRICAL EQUIPMENT AND PANELBOARDS PROVIDED UNDER THIS WORK SHALL BE FULLY RATED. SERIES RATED EQUIPMENT AND PANELBOARDS ARE NOT ACCEPTABLE.

IN PANELBOARDS, "EQUIPPED SPACE" OR "SPACE" IS DEFINED TO INCLUDE ALL NECESSARY BUS, DEVICE SUPPORTS AND CONNECTIONS FOR INSERTION OF A FUTURE DEVICE.

ALL PANELBOARDS SHALL BE EQUIPPED WITH COMMON KEYED LOCKS. PROVIDE A MINIMUM OF TWO KEYS PER PANEL. PANELBOARDS SHALL BE COMPLETE WITH COVERS AND TRIMS AND SHALL CONTAIN A GROUND BUS. PANELBOARD CIRCUITING SHALL MATCH THE DRAWINGS. CIRCUITING CHANGES MUST BE APPROVED BY THE FNGINFFR

PANELBOARD BUS SHALL BE COPPER WITH BOLT-ON BRANCH CIRCUIT BREAKERS. BEFORE ORDERING PANELBOARDS, COORDINATE ALL MOTOR CIRCUIT BREAKER TRIPS WITH MECHANICAL EQUIPMENT MANUFACTURER'S REQUIREMENTS. COORDINATE CONDUCTOR SIZE WITH ACTUAL MOTORS AND OTHER MECHANICAL AND ARCHITECTURAL EQUIPMENT FURNISHED BEFORE INSTALLING CIRCUITRY. ADJUSTABLE TRIP CIRCUIT BREAKERS SHALL BE SET BY THE CONTRACTOR IN THE FIELD AS APPROVED BY THE ENGINEER SURFACE MOUNTED PANELBOARD CABINETS SHALL BE INSTALLED ON AN APPROVED STEEL SLOTTED SUPPOR

SYSTEM TO DISTRIBUTE THE WEIGHT EVENLY TO THE WALL AND FLOOR AND TO PROVIDE A 1-INCH AIR SPACE BETWEEN WALL AND CABINET 3. FOR RECESSED PANELBOARDS, RUN ONE 3/4" CONDUIT FROM TOP OF PANEL 6" INTO CEILING SPACE FOR EVERY SET OF 3 SPARE CIRCUIT BREAKERS OR SPACES.

PANELBOARD SHALL BE EQUAL TO SQUARE D TYPE EDB, QOB, OR MANUFACTURED EQUIVALENT BY GENERAL ELECTRIC, EATON/CUTLER HAMMER, OR SIEMENS PROVIDE HANDLE TIES ON CB's MULTI-WIRE BRANCH CIRCUITS OR SERVING SYSTEM FURNITURE TO

SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS PER NEC ARTICLES 210.4 AND 605.7 . PROVIDE FRAMED, TYPED CIRCUIT DIRECTORY WITH EXPLICIT DESCRIPTION AND IDENTIFICATION OF ITEMS CONTROLLED BY EACH INDIVIDUAL BREAKER. PROVIDE NEW PANELBOARD DIRECTORY FOR ALL EXISTING AND NEW PANELBOARDS AFFECTED BY RENOVATION. PANELBOARD DIRECTORY SHALL BE REVISED TO REFLECT ALL REVISED FIELD CONDITIONS. MARK PANELBOARD SUPPLIED BY A FEEDER TO INDICATED THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES.

INSTALL FUSES IN FUSIBLE DEVICES AS INDICATED. INSTALL TYPEWRITTEN LABELS ON THE INSIDE DOOR OF EACH FUSED SWITCH TO INDICATE FUSE REPLACEMENT INFORMATION

ALL FUSES SHALL BE CLASS RK-1 TIME DELAY TYPE, UNLESS OTHERWISE INDICATED. 4. SPARE FUSES: FURNISH QUANTITY EQUAL TO 20 PERCENT OF EACH FUSE TYPE AND SIZE INSTALLED, BUT NOT LESS THAN 1 SET OF 3 OF EACH TYPE AND SIZE.

SPARE FUSE CABINET: WALL-MOUNTED, 18-GAUGE MINIMUM STEEL UNIT WITH FULL-LENGTH, RECESSED PIANO-HINGED DOOR WITH KEY-CODED CAM LOCK AND PULL. SIZE: ADEQUATE FOR ORDERLY STORAGE OF SPARE FUSES SPECIFIED WITH 15 PERCENT SPARE CAPACITY MINIMUM. FINISH: GRAY BAKED ENAMEL. IDENTIFICATION: STENCIL LEGEND "SPARE FUSES" IN 1-1/2" (40 mm) LETTERS ON DOOR.

K. <u>DISCONNECTS AND CIRCUIT BREAKERS</u>

ENCLOSED NON-FUSIBLE SWITCH SHALL BE NEMA HEAVY-DUTY TYPE WITH ENCLOSURE CONSISTENT WITH ENVIRONMENT WHERE LOCATED, HANDLE LOCKABLE WITH 2 PADLOCKS, AND INTERLOCKED WITH COVER IN "CLOSED" POSITION

ENCLOSED FUSIBLE SWITCHES SHALL BE NEMA HEAVY-DUTY TYPE WITH CLIPS TO ACCOMMODATE SPECIFIED FUSES, ENCLOSURE CONSISTENT WITH ENVIRONMENT WHERE LOCATED, HANDLE LOCKABLE WITH 2 PADLOCKS AND INTERLOCKED WITH COVER IN "CLOSED" POSITION. SWITCHES SHALL HAVE MINIMUM FAULT CURRENT RATING OF 200,000 SYMMETRICAL RMS AMPERES.

. LOCATE DISCONNECT SWITCH (AND MOTOR CONTROLLER) FOR MECHANICAL EQUIPMENT TO PERMIT SERVICING OF EQUIPMENT. CHECK MOTORS FOR PROPER ROTATION. CONNECT CONDUCTORS AS REQUIRED BY 4. ENCLOSED MOLDED-CASE CIRCUIT BREAKER: FRAME SIZE, TRIP RATING, NUMBER OF POLES, AND AUXILIARY

DEVICES AS INDICATED: INTERRUPTING CAPACITY RATING TO MEET AVAILABLE FAULT CURRENT. 10.000 SYMMETRICAL RMS AMPERES MINIMUM; WITH APPROPRIATE APPLICATION LISTING WHEN USED FOR SWITCHING FLUORESCENT LIGHTING LOADS OR HEATING, AIR CONDITIONING, AND REFRIGERATION EQUIPMENT. ENCLOSURE: NEMA TYPE 1, UNLESS SPECIFIED OR REQUIRED OTHERWISE TO MEET ENVIRONMENTAL CONDITIONS OF INSTALLED LOCATION. (a) OUTDOOR LOCATIONS: TYPE 3R. (b) KITCHEN AREAS: TYPE 4X, STAINLESS STEEL. (c)

OTHER WET OR DAMP INDOOR LOCATIONS: TYPE 4. (d) HAZARDOUS AREAS INDICATED ON DRAWINGS: NEMA 7C. PROPERLY SUPPORT DISCONNECT OR ENCLOSED CIRCUIT BREAKER ON WALL WITH METAL FRAMING AS PROVIDE FUSES IF REQUIRED BY MANUFACTURER OF EQUIPMENT FOR UL APPROVAL OR HACR CIRCUIT BREAKERS.

MOTOR CONTROLLERS (STARTERS)

MOTOR CONTROLLER FEATURES: PROVIDE CONTROLLERS CONSISTENT WITH THE RATINGS AND CHARACTERISTICS OF THE SUPPLY CIRCUIT, THE MOTOR, THE REQUIRED CONTROL SEQUENCE, THE DUTY CYCLE OF THE MOTOR, DRIVE, AND LOAD, AND THE PILOT DEVICE, AND CONTROL CIRCUIT AFFECTING CONTROLLER FUNCTIONS. CONTROLLERS SHALL BE HORSEPOWER RATED TO SUIT THE MOTOR CONTROLLED. (a) CONTACT SHALL OPEN EACH UNGROUNDED CONNECTION TO THE MOTOR. (b) OVERLOAD RELAYS: FOR MOTORS 1/3 HP OF ARGER. PROVIDE IN EACH PHASE AMBIENT COMPENSATED TYPE WITH INVERSE TIME-CURRENT CHARACTERISTIC. WITH HEATERS OR SENSORS IN EACH PHASE MATCHED TO NAMEPLATE FULL-LOAD CURRENT OF THE SPECIFIC MOTOR TO WHICH CONNECTED, WITH APPROPRIATE ADJUSTMENT FOR DUTY CYCLE. (c) ENCLOSURES FOR INDIVIDUALLY MOUNTED MOTOR CONTROLLERS AND CONTROL DEVICES: SUITABLE FOR THE ENVIRONMENTAL CONDITIONS AT THE CONTROLLER LOCATION. PROVIDE NEMA TYPE 1 ENCLOSURES EXCEPT AS OTHERWISE INDICATED.

ELECTRICAL SPECIFICATIONS (CONT.)

MANUAL MOTOR CONTROLLERS: QUICK-MATE, QUICK-BREAK TOGGLE ACTION WITH RED PILOT LIGHT AND HANDLE GUARD/LOCK OFF

3. MAGNETIC MOTOR CONTROLLERS: PROVIDE FULL-VOLTAGE, NONREVERSING, ACROSS-THE-LINE, MAGNETIC CONTROLLER, EXCEPT WHERE ANOTHER TYPE IS INDICATED. CONTROLLERS TO BE EQUIPPED WITH 2 N.O. AND 2 N.C. AUXILIARY CONTACTS. HAND-OFF-AUTO SELECTOR SWITCH. RED AND GREEN PILOT LIGHTS. (a) CONTROL CIRCUIT: MAXIMUM 120V CONTROL POWER. PROVIDE TRANSFORMER CONSISTENT WITH CONTROL CONTRACTOR VOLTAGE AND SIZE REQUIREMENTS. PROVIDE CONTROL POWER TRANSFORMER WITH ADEQUATE CAPACITY TO OPERATE CONNECTED PILOT, INDICATING AND CONTROL DEVICES, PLUS 100 PERCENT SPARE CAPACITY. (b) COMBINATION CONTROLLER: SWITCH TYPE; FUSED OR NONFUSED AS INDICATED; QUICK-MAKE, QUICK-BREAK SWITCH FACTORY ASSEMBLED WITH CONTROLLER AND ARRANGED TO DISCONNECT IT. FOR FUSED SWITCHES. PROVIDE REJECTION-TYPE FUSE CLIPS AND FUSES RATED AS INDICATED. INTERLOCK SWITCH WITH UNIT COVER OR DOOR.

1. COORDINATE RECESSED LIGHTING FIXTURES WITH MECHANICAL EQUIPMENT AND ARCHITECTURAL CEILING PLAN. GRID LAYOUT ON PLANS IS APPROXIMATE. ADJUST LIGHTING FIXTURES IN FIELD PER ARCHITECT. PROVIDE FINISHING FRAMES FOR ALL RECESSED LIGHTING FIXTURES, TYPE TO BE COMPATIBLE WITH CEILING. COORDINATE ALL FIXTURE TYPES WITH CEILING SYSTEM BEFORE ORDERING FIXTURES. PROVIDE ALL MOUNTING ATTACHMENTS FOR A COMPLETE INSTALLATION.

3. ALL NEW LIGHTING FIXTURES SHALL BE INSTALLED COMPLETE WITH LAMPS. SEE PLANS FOR SPECIFIC REQUIREMENTS. COORDINATE LAMP COLOR TEMPERATURE WITH ARCHITECT.

4. 2' X 2' FLUORESCENT FIXTURES IN ANY ROOM OR COMMON AREA SHALL HAVE ALL LAMPS ORIENTED IN THE SAME 5. COORDINATE LOW VOLTAGE DIMMERS WITH ELECTRONIC OR MAGNETIC LOW VOLTAGE LIGHTING PER MANUFACTURER OF LIGHTING FIXTURES.

IN LOCATIONS WHERE NEW DUCTWORK OR CEILING IS INSTALLED UNDER THIS CONTRACT BUT LIGHTING FIXTURES HAVE NOT BEEN REVISED, REMOVE EXISTING FIXTURES AS NECESSARY TO RUN THE NEW DUCTWORK OR CEILING AND RE-HANG AFTER THE MECHANICAL OR ARCHITECTURAL WORK IS COMPLETED. COLOR LIGHTING FIXTURES SHALL BE AS SELECTED BY THE ARCHITECT

8. THE EXACT LOCATION OF LIGHTING FIXTURES IN MECHANICAL ROOM SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO PROVIDE LIGHT OVER SERVICE AREAS. 9. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE AND OPERATIONAL INSTALLATION TO SUIT PROJECT

10. PROVIDE MEANS OF SUPPORT PER NEC 410.36.

N. EQUIPMENT CONNECTION

1. EXTEND WIRING TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AND MAKE FINAL AND COMPLETE CONNECTIONS TO ALL EQUIPMENT. BEFORE ROUGHING IN. THE LOCATION AND TYPE OF DEVICE SHALL BE VERIFIED FROM SHOP DRAWINGS OF THE EQUIPMENT. STARTERS AND DISCONNECTS AND OTHER ELECTRICAL CIRCUITRY AND DEVICES SHALL BE LOCATED TO ALLOW ACCESS TO DEVICES AND NOT INTERFERE WITH THE OPERATION OF THE MECHANICAL OR ARCHITECTURAL DEVICES OR THEIR POSSIBLE MAINTENANCE OR REMOVAL

O. EQUIPMENT LOCATION

1. DO NOT INSTALL NEW PANELBOARDS, SWITCHBOARDS AND/OR MOTOR CONTROL CENTERS UNDERNEATH NEW OR EXISTING DUCTWORK AND/OR PIPING. IF SUCH CONDITIONS ARE ENCOUNTERED, NOTIFY THE ENGINEER FOR FURTHER EVALUATION AND DIRECTIVES. INSTALLING THE PANELBOARD IN A DIFFERENT LOCATION AGREED TO BY THE ENGINEER AND OWNER TO AVOID THIS SCENARIO SHALL BE AT SOLE COST TO THE CONTRACTOR.

PROVIDE DEMOLITION AS INDICATED ON DEMOLITION PLANS. CIRCUITRY NOTED FOR REMOVAL SHALL BE REMOVED BACK TO THE SOURCE BUS UNLESS OTHERWISE NOTED. BE RESPONSIBLE FOR THE COMPLETE REMOVAL FROM THE SITE FOR ALL EQUIPMENT AND MATERIAL REMOVED UNDER DEMOLITION WORK, UNLESS OTHERWISE NOTED OR DIRECTED. EXISTING CIRCUITS-TO- REMAIN INTERRUPTED BY DEMOLITION SHALL BE RESTORED FOR OPERATION AS BEFORE. OUTAGES REQUIRED TO PERFORM DEMOLITION SHALL BE COORDINATED. WITH THE OWNER AND PROCESSED OUTSIDE OF NORMAL BUSINESS HOURS. REPAIR ALL WALL, CEILING, FLOOR OR ROOF OPENINGS CREATED BY DEMOLITION. REPAIRS SHALL BE PROVIDED BY WORKMAN SKILLED IN THE TRADE AND SHALL CONFORM WITH MATERIAL AND FINISHES TO MATCH EXISTING.

LOCATE, IDENTIFY AND PROTECT ELECTRICAL SERVICES PASSING THROUGH DEMOLITION AREA AND SERVING OTHER AREAS OUTSIDE THE DEMOLITION LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE DEMOLITION LIMITS. WHEN SERVICES MUST BE INTERRUPTED, INSTALL TEMPORARY SERVICES FOR AFFECTED AREAS.

**ABBREVIATIONS** 

MAX MAXIMUM

MECH MECHANICAL

MIN MINIMUM

MTS MOUNTED

MW MICROWAVE

MH MOUTING HEIGHT

MLO MAIN LUGS ONLY

NA NOT APPLICABLE

NIC NOT IN CONTRACT

NO NORMALLY OPEN

NTS NOT TO SCALE

OVHD OVERHEAD

POLE

PHASE

PNL PANEL

PWR POWER

PRI PRIMARY

NC NORMALLY CLOSED

NEC NATIONAL ELECTRICAL CODE

NFSS NON-FUSED SAFETY SWITCH

PHOTOELECTRIC CELL

POWER FACTOR

PCV POLYVINYL CHLORIDE

MC METAL CLAD CABLE

MCB MAIN CIRCUIT BREAKER

MDP MAIN DISTRIBUTION PANEL

A,AMP AMPERE GFCI GROUND FAULT CIRCUIT AC AIR CONDITIONING INTERRUPTER AIC MAPERE INTERRUPTING GROUND CAPACITY AFCI ARC-FAULT CIRCUIT HP HOURSEPOWER INTERRUPTER HAVC HEATING VENTILATION & AIR ABOVE FINISH FLOOR CONDITIONING HT HERTZ JB JUCTION BOX

AFG ABOVE FINISH GRADE AUTO AUTOMATIC AWG AMERICAN WIRE GAUGE KCMIL THOUSAND CIRCULAR MILS BRK BREAKER KV KILOVOLT BLDG BUILDING KVA KILOVOLT AMPERE CONDUIT KW KII OWATT KWH KILOWATT HOUR CIRCUIT BREAKER CKT CIRCUIT LED LIGHT EMITTING DIODE LTG LIGHTING

CENTER LINE COM COMMUNICATION CURRENT TRANSFORMER CTRL CONTROL CORR CORRIDOR CU COPPER

DB DECIBAL DISC DISCONNECT DN DOWN DP DISTRIBUTION PANEL DWG DRAWING EMPTY CONDUIT

EXHAUST FAN ELEC ELECTRICAL EMER EMERGENCY EMT ELECTRIC METALLIC TUBING EWC ELECTRIC WATER COLLER EWH ELECTRIC WALL HEATER FA FIRE ALARM

FAAP FIRE ALARM REMOTE ANNUNICATOR PANEL FACP FIRE ALARM CONTROL PANEL PF FOOTCANDLE FI OOR

FLA FULL LOAD AMPERES

FT FEET OR FOOT

FSS FUSED SAFETY SWITCH

OTY QUANTITY REC RECEPTACLE GFI GROUND FAULT INTERRUPTER RGS RIGID GALVANIZED STEEL SEC SECONDARY SECT SECTION SP SINGLE POLE

SPD SURGE PROTECTION DEVICE SPEC SPECIFICATION SQ SQUARE SN SOLID NEUTRAL SW SWITCH SYS SYSTEM TEL TELEPHONE TEMP TEMPURTURE THRU THROUGH TV TELEVISION TYP TYPICAL UG UNDERGROUND UL UNDERWRITERS LABORATORIES

UON UNLESS OTHERWISE NOTED VOLT VA VOLT AMPERES VIF VERIFY IN FIELD W WATT WC WATER COOLER WH WATT HOUR WP WEATHERPROOF

XFMR TRANSFORMER

DRAWING LIST

**ELECTRICAL LEGEND** 

DESCRIPTION

"A" INDICATES FIXTURE TYPE AND "a" (IF SHOWN) INDICATES SWITCH CONTROL

COMPACT FLUORESCENT OR LED WALL WASHER TYPE LIGHTING FIXTURE

LED EMERGENCY LIGHTING FIXTURE - "A" INDICATES FIXTURE TYPE

LED EMERGENCY LIGHTING FIXTURE - "A" INDICATES FIXTURE TYPE

"A" INDICATES FIXTURE TYPE AND "a" (IF SHOWN) INDICATES SWITCH CONTROL

CEILING MOUNTED EXIT LIGHT SINGLE FACE/DOUBLE FACE WITH ARROWS AS

SPECIAL PURPOSE SINGLE RECEPTACLE - SEE DRAWING FOR DESCRIPTION

ELEVISION - PROVIDE 4" SQUARE BOX AND STUB OUT 3/4" EC 6"

COMBINATION DATA/TELEPHONE OUTLET. STUB OUT 1" WITH PULL STRING 6" INTO

CARD READER - PROVIDE 4" SQUARE BOX AND STUB OUT 3/4" EC 6" INTO CEILING

NON-FUSED SAFETY DISCONNECT SWITCH - NUMERAL DENOTES SWITCH SIZE - 3 POLE

FUSED SAFETY DISCONNECT SWITCH - UPPER NUMERAL DENOTES SWITCH SIZE.

HOMERUN TO PANELBOARD - NO. OF ARROWHEADS INDICATE NO. OF CIRCUITS

INDICATE THE QUANTITY (WHERE MORE THAN TWO) OF CURRENT CARRYING

FACTORY CONNECTION - PROVIDE CIRCUITRY CONNECTION AS NOTED ON PLAN

MANUAL MOTOR CONTROLLER SWITCH WITH THERMAL OVERLOAD PROTECTION

CIRCUITRY INSTALLED CONCEALED IN OR BELOW FLOOR SLAB

DIGITAL TIMER SWITCH. REFER TO PLAN FOR SPEC

USB/DUPLEX RECEPTACLE - NEMA 5-20R

REMOVE WITH ALL CIRCUITRY THERETO

REMOVE EXISTING AND RELOCATE

RELOCATED EQUIPMENT

EXISTING TO REMAIN - CONTINUE IN SERVICE

NUMERALS & LETTERS ADJACENT TO ARROWHEADS INDICATE ASSIGNED PANEL &

TICK MARKS IN HOMERUN OR BRANCH CIRCUITRY, UNLESS OTHERWISE SCHEDULED,

CONDUCTORS. NUMERAL ADJACENT TO TICKS INDICATES WIRE SIZE IF OTHER THAN #12

ALL WRING SHALL ALSO CONTAIN AN INSULATED EQUIPMENT GROUND CONDUCTOR SIZED

SPACE. PROVIDE MATCHING OUTLET FOR PUSH EXIT BUTTON AS REQUIRED.

INCANDESCENT, COMPACT FLUORESCENT OR LED EMERGENCY LIGHTING FIXTURE

DUPLEX RECEPTACLE - NEMA 5-20R WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER

LED LIGHTING FIXTURE - "A" INDICATES FIXTURE TYPE

LED LIGHTING FIXTURE - "A" INDICATES FIXTURE TYPE

COMPACT FLUORESCENT OR LED TYPE LIGHTING FIXTURE a Oa a COMPACT FLUORESCENT OR LED TYPE LIGHTING FIXTURE

"A" INDICATES FIXTURE TYPE AND "a" (IF SHOWN) INDICATES SWITCH CONTROL

"a" (IF SHOWN) INDICATES SWITCH CONTROL

"A" INDICATES FIXTURE TYPE

SINGLE POLE SWITCH

DUPLEX RECEPTACLE - NEMA 5-20R

CEILING MOUNTED JUNCTION BOX

WALL MOUNTED JUNCTION BOX

PANELBOARD 120/240V SYSTEM

INTO CEILING SPACE

MOTOR CONNECTION

PER NEC. (NOT SHOWN)

DENOTES PLAN SPECIFIC NOTE

FEEDER DESIGNATION

GENERAL CIRCUITRY

TRANSFORMER

GROUND

CEILING SPACE. PROVIDE OUTLET BOX

DOUBLE DUPLEX RECEPTACLE - NEMA 5-20R

DESIGNATION

S

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SPECIFICATIONS, LEGEND & ABBREVIATIONS FIRST FLOOR - DEMOLITION PLAN ED101

COMBINATION MOTOR STARTER AND DISCONNECT SWITCH - 3PH UON.

FIRST FLOOR - LIGHTING - NEW WORK PLAN E-101 E-201 FIRST FLOOR - POWER - NEW WORK PLAN E-202 **ROOF- DEMOLITION & NEW WORK PLANS** E-501 DETAILS, SCHEDULES & COMCHECK E-601 POWER RISER DIAGRAM & SCHEDULES

FIRST FLOOR - FIRE ALARM - NEW WORK PLAN

8001 Braddock Rd, Suite 200, Springfield, VA 22151 03.978.0100 www.gpinet.com

MTG HGT TO

CENTER

LINE AFF

(UON)

REFER TO

REFER TO

REFER TO

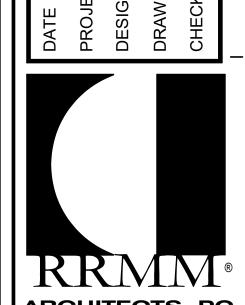
ARCH. UON

ARCH. UON

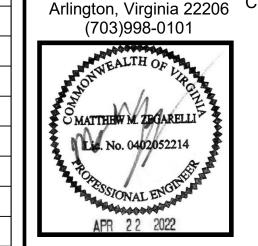
ARCH, UON

6'-0" TO TOP

4'-0"



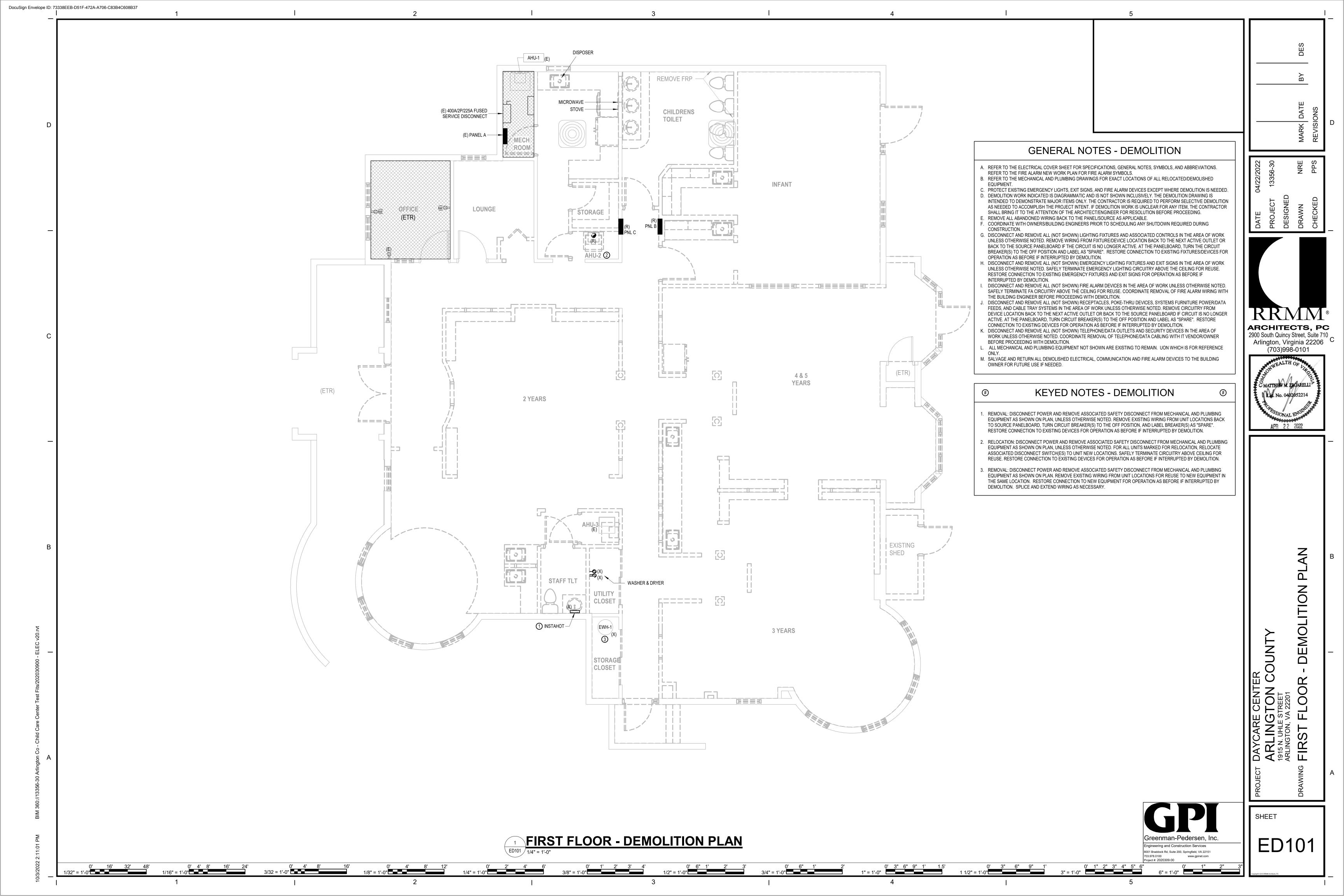
2900 South Quincy Street, Suite 710

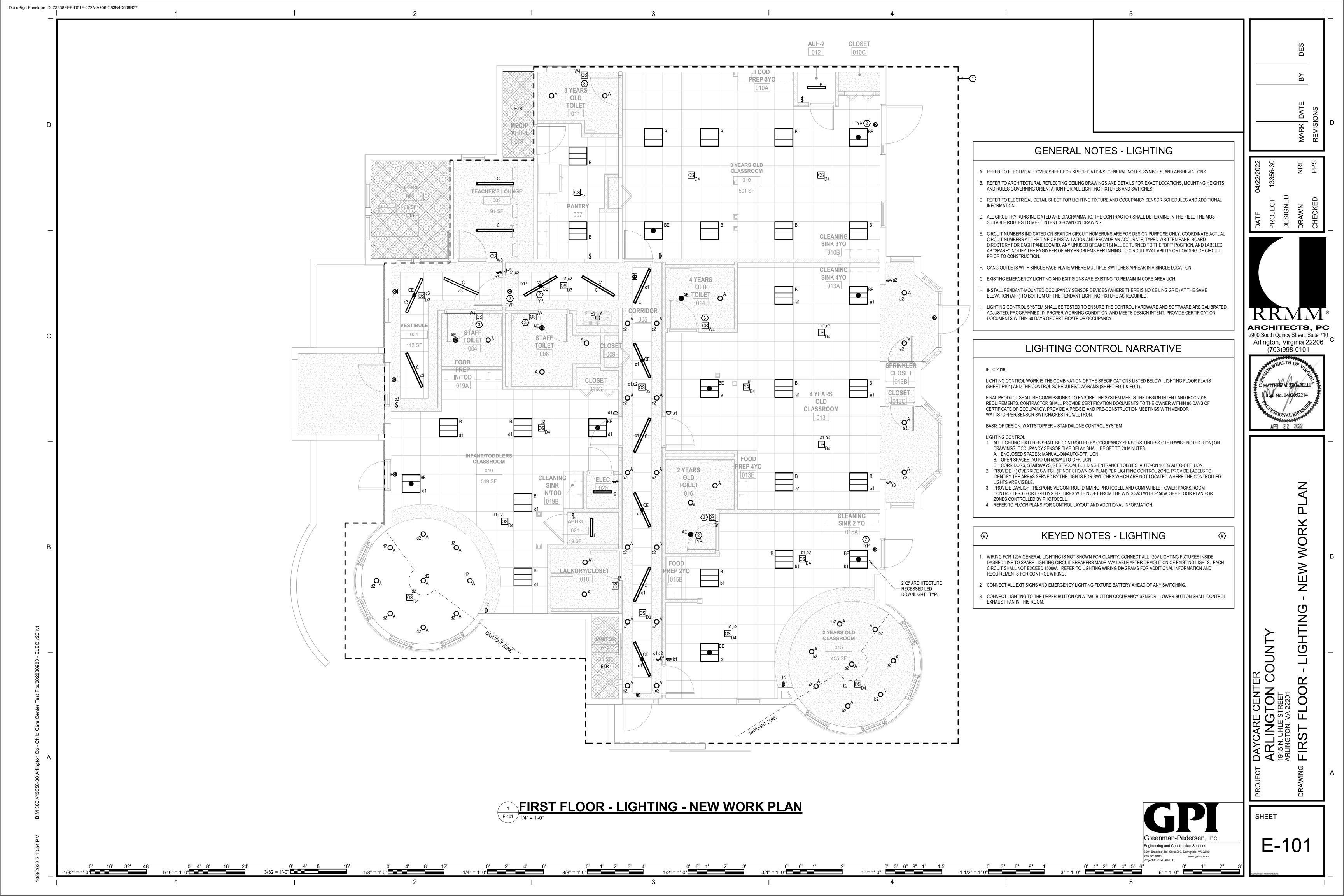


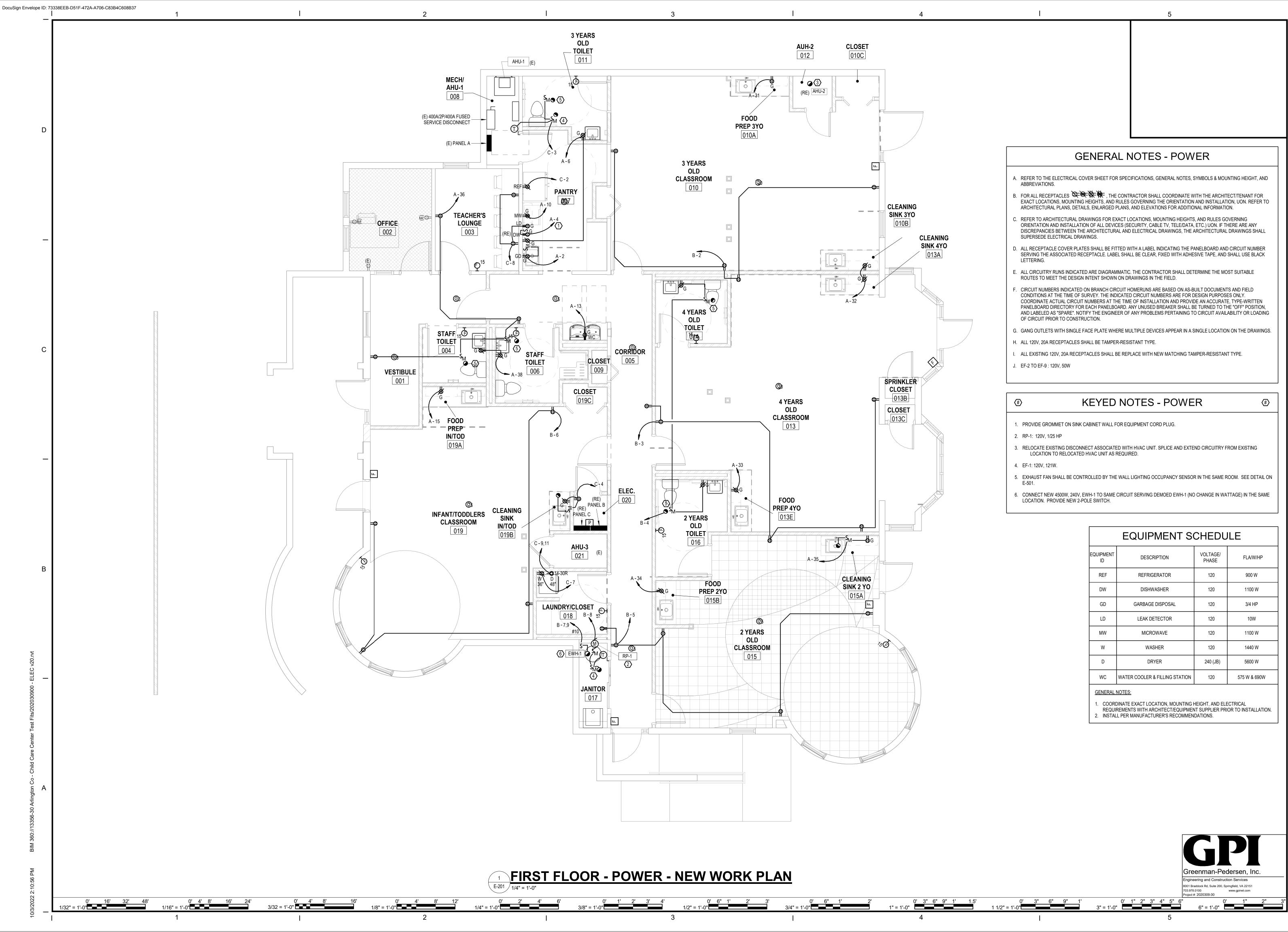
**ABBREVIATIO** 

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SHEET







ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

MATTHEW M. ZEGARELLI

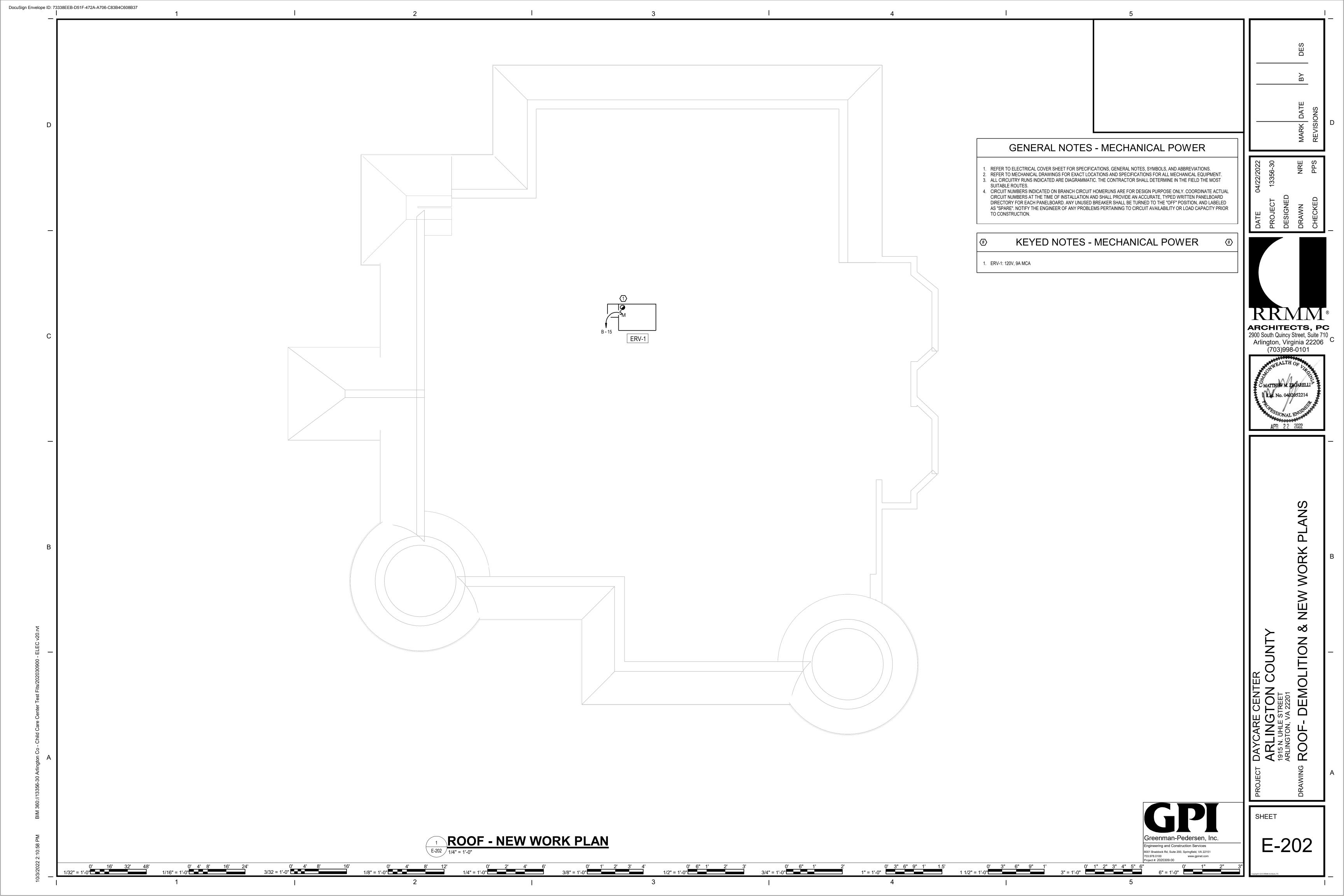
APR 22 2022

R - POWER - NEW WORK PLAN

CT DAYCARE CENTER
ARLINGTON COUN
1915 N. UHLE STREET

SHEET

E-201



MOUNTING

RECESSED

RECESSED

RECESSED

RECESSED

SURFACE

SURFACE

SURFACE

SURFACE

SURFACE/

PENDANT

VOLTS

120

120

120

120

120

120

120

120

120/277

DIMMING

(YES OR

NO)

YES

YES

YES

YES

NO

NO

NO

KEYED NOTES

**Area Category** 

1-School/University

Allowed Watts

(B X C)

Watts / ft2

ZONES AS REQUIRED

CONTROL WIRE

(0-10V DIMMING

WALL SWITCH\*

RJ45

SCALE: NOT TO SCALE

LTG

LOAD

CONTROLLER(S)

COORDINATE WITH MANUFACTURÉR

REQUIRED ROOM CONTROLLER

DIMMING/ ON-OFF RELAY TYPE

NEUTRAL WHT

UNSWITCHED

EARTH

GROUND

OCCUPANCY

\*NOTE: CONNECT TO OTHER DLM

DEVICES

INDICATED ON PLAN

SENSOR(S)\*

LMRJ SERIES PRE-TERMINATED

CABLES OR CAT5E. FREE TOPOLOGY &

HOT BLK

ACCEPTABLE

120 OR 277

ZONE1

ARCHITECTS, PC

2900 South Quincy Street, Suite 710 Arlington, Virginia 22206 C (703)998-0101 OMATTHEW M. ZECARELLI

APR 22 2022

COMCHECK

**∞**ŏ

DIGITAL LIGHTING CONTROL SCHEMATIC WIRING DIAGRAM

\*NOTE: CONNECT TO OTHER DLM

DEVICES

INDICATED ON PLAN

1. WATTSTOPPER DLM BASIS OF DESIGN

2. COORDINATE WITH MANUFACTURER FOR REQUIRED ROOM CONTROLLER DIMMING/ ON-OFF RELAY TYPE AND QUANTITY

3. REFER TO FLOOR PLAN AND OCCUPANCY SENSOR SCHEDULE FOR CONTROL ZONES AND SCHEMES.

4. PROVIDE SEPARATE ROOM CONTROLLERS FOR DIFFERENT

5. 2&3 RELAY ROOM CONTROLLERS ARE FOR MULTI-ZONES INSIDE A ROOM/SPACE, NOT MULTIPLE ROOMS, EACH

6. PROVIDE SEPARATE ROOM CONTROLLERS FOR DIFFERENT

ON/OFF CONTROL:

FORWARD PHASE DIMMING CONTROL:

LMRC-101 - 1 ZONE

LMRC-102 - 2 ZONES

LMRC-221 - 1 ZONE

LMRC-222 - 2 ZONES

0-10V DIMMING:

LMRC-211 - 1 ZONE

LMRC-212 - 2 ZONES

LMRC-213 - 3 ZONES

INPUT VOLTAGES (120V AND 277V).

LOWER-CASE LETTER INDICATES A ZONE.

TYPES OF DIMMING BALLASTS/DRIVERS (SEE BELOW).

TWO CIRCUIT LEVEL WIRING LINE 1 BLACK LINE 2 BLUE NEUTRAL WHITE SECONDARY LOAD 120V/277V GROUND

TYPICAL WIRING FOR OCCUPANCY SENSOR TYPE W4

SCALE: NOT TO SCALE

Greenman-Pedersen, Inc. 8001 Braddock Rd, Suite 200, Springfield, VA 22151 www.gpinet.com

6" = 1'-0"

SHEET

	Software Version Lighting Com			ifica
Project Information	Lighting Com	Pilaii		ou
Energy Code: Project Title: Project Type:	2018 IECC DAYCARE CENTER ARLINGTO New Construction	ON COUNTY		
Construction Site: 1915 N. Uhle Street Arlington, VA 22201	Owner/Agent:		Designer/Contracto	r:
Additional Efficiency Package(stredits: 1.0 Required 1.0 Proposed Reduced Lighting Power, 1.0 credit	5)			
Allowed Interior Lighting Powe	r			
	Α	В	C	:

LITHONIA LRP-X-X-RC-X-120/277 EXIT SIGN

REFER TO ARCHITECTURAL LIGHTING FIXTURE SCHEDULE FOR FINAL CAT. NO. ALL FIXTURES SHALL BE UL LISTED. COORDINATE MOUNTING HEIGHT (PENDANT/SUSPENDED/WALL LUMINAIRES) & LENGTH (LINEAR FLUORESCENT/LED LUMINAIRES) WITH ARCHITECT.

PROVIDE 0-10V STANDARD DIMMING BALLAST/DRIVER AS BASIC OF DESIGN AS REQUIRED.

4. PROVIDE COMPATIBLE DIMMER SWITCH WITH FLUORESCENT DIMMING BALLAST AS REQUIRED. . PROVIDE COMPATIBLE DIMMER SWITCH (OR SYSTEM) WITH LED DIMMING DRIVER AS REQUIRED.

PROVIDE LAMP(S) AT 80 CRI OR BETTER, REFER TO ARCHITECTURAL DRAWINGS FOR FINAL LAMP COLOR TEMPERATURE.

MANUFACTURER

LITHONIA

LITHONIA

LITHONIA

LITHONIA

METALUMEN

METALUMEN

LITHONIA

LITHONIA

LIGHTING FIXTURE SCHEDULE SHALL ONLY PROVIDE DIMMING INFORMATION FOR DRIVER TYPE. REFER TO LIGHTING PLAN FOR EXACT FIXTURES TO BE CONTROLLED BY DIMMING SWITCHES/ROOM CONTROLLERS/POWER PACKS.

3. [PROVIDE LOW MERCURY LAMP PER 2013 DC GREEN CONSTRUCTION CODE SECTION 506]

DESCRIPTION

6" DOWNLIGHT

SAME AS FIXTURE ABOVE

WITH INTEGRAL EMERGENCY

BATTERY

2'X2"

SAME AS FIXTURE ABOVE

WITH INTEGRAL EMERGENCY

BATTERY

4' LINEAR LED

SAME AS FIXTURE ABOVE

WITH INTEGRAL EMERGENCY

4' LINEAR LED STRIP

2' LINEAR LED STRIP

**KEYED NOTES:** 

**GENERAL NOTES** 

PROVIDE QUANTITY OF FACES, DIRECTIONAL ARROWS, AND MOUNTING AS SHOWN ON DRAWINGS. MATCH BUILDING STANDARD AS REQUIRED. PROVIDE OPTION "EL", NICKEL-CADMIUM BATTERY, AS REQUIRED.

LIGHTING FIXTURE SCHEDULE

QUANTITY

CATALOG NO.

LDN6 35/15 L06 LSS 120

LDN6 35/15 L06 LSS 120

2BLT 33L 2ADP 120 GZ10 LP835

2BLT 33L 2ADP 120 GZ10 LP835

RM2D 1L35K 4 A M W L3 1 S 1

RM2D 1L35K 4 A M W L3 1 S 1

CLX L48 3000L SEF FDL 120 GZ10

35K 80CRI WH

CLX L48 3000L SEF FDL 120 GZ10

35K 80CRI WH

LAMP

TYPE

LED-17.5W

LED-17.5W/

LED-26.7W

LED-26.7W

LED-24W

LED-24W

LED-20.3W

LED-10.85W

LED (INCLUDED)

PROVIDE PENDANT MOUNTING KIT AS REQUIRED. PROVIDE EMERGENCY BATTERY PACK.

Total Allowed Watts = # of Fixture (C X D) Fixture ID: Description / Lamp / Wattage Per Lamp / Ballast Lamps/ Fixtures Watt. 1-School/University LED 1: A: DOWNLT: Other LED 2: B: 2X2: Other: LED 3: C: 1X4 LINER: Other: 312 LED 4: D: 4' STRIP: Other: LED 5: E: 2' STRIP: Other: Total Proposed Watts = nterior Lighting PASSES: Design 18% better than code Interior Lighting Compliance Statement

specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans,

Name - Title

Project Title: DAYCARE CENTER ARLINGTON COUNTY

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OCCUPANCY SENSOR SCHEDULE

### OCCUPANCY SENSOR SCHEDULE TYPE DESCRIPTION MANUFACTURER CATALOG NO. KEYED NOTES DUAL TECHNOLOGY WALL SWITCH WATTSTOPPER DW-200 1,2 SENSOR DUAL RELAY

### **GENERAL NOTES:**

1. ADJUST SENSITIVITY SETTINGS ON THE BACK OF THE SENSOR AS NECESSARY TO PROVIDE THE DESIRED COVERAGE. MOVE OUT OF THE CONTROLLED AREA - THE LIGHTS SHALL TURN OFF. 2. INSTALL PASSIVE INFRARED WALL SWITCH SENSOR IN SPACE WHERE IT HAS A DIRECT, UNOBSTRUCTED VIEW OF THE

TARGETED SPACE (FURNITURE OR OTHER OBSTACLES WILL PREVENT DETECTION). 3. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS: 3.1. ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT.

3.2. REFER TO INSTALLATION GUIDE FOR MAXIMUM NUMBER OF SENSORS CONNECTED TO POWER PACK. 3.3. IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SINGLE SENSOR, AUXILIARY RELAYS MAY BE USED IN CONJUNCTION WITH A POWER PACK. 3.4. INSTALLATION: LOCATE POWER PACK AT ACCESSIBLE LOCATION. IN HARD CEILING AREAS, PROVIDE AN ACCESS

DOOR. COORDINATE ACCESS DOOR LOCATION WITH THE ARCHITECT. 3.5. PROVIDE ALL ACCESSORIES AND COMPONENTS (NOT SHOWN ON PLAN) TO MAKE THE SYSTEM FULLY OPERATIONAL 4. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURE'S INSTALLATION INSTRUCTIONS PRIOR INSTALLATION. IF PENDANT MOUNTED FIXTURES ARE PRESENT, LOCATION AND COVERAGE OF SENSORS SHOULD BE

1/4" = 1'-0"

5. REFER TO TYPICAL OCCUPANCY SENSOR WIRING DETAILS FOR ADDITIONAL REQUIREMENTS. 6. PROVIDE A PRE-BID AND PRE-CONSTRUCITION MEETINGS WITH WATTSTOPPER AS REQUIRED.

1. AT 120VAC, 0-800W BALLAST/TUNGSTEN, 1/6 HP AND AT 277VAC, 0-1200W BALLAST.

2. SET SENSOR FOR MANUAL ON, AUTO OFF. UON SHOWN ON LIGHTING PLAN.

TYPE DESCRIPTION MANUFACTURER CATALOG NO. **KEYED NOTES** DIGITAL DUAL TECHNOLOGY WALL WATTSTOPPER LMDW-101 1,2 SWITCH SENSOR - 1 BUTTON DIGITAL DUAL TECHNOLOGY WALL WATTSTOPPER LMDW-102 1,2,7 SWITCH SENSOR - DIMMING DIGITAL DUAL TECHNOLOGY CEILING WATTSTOPPER LMDC-100 1,3 DIGITAL DUAL TECHNOLOGY CEILING WATTSTOPPER LMDC-100 1,2 DIGITAL AUTOMATIC DIMMING LMLS-400 WATTSTOPPER 1,5 CONTROL PHOTOCELL [LMLS-500] DIGITAL SWITCH ON/OFF BUTTON WATTSTOPPER LMSW-101 LMSW-100 WATTSTOPPER DIGITAL SWITCH #-ZONE 1,4 SERIES WATTSTOPPER LMDM-101 DIGITAL DIMMING SWITCH

PROVIDE ALL ACCESSORIES AND COMPONENTS (NOT SHOWN ON PLAN) TO MAKE THE SYSTEM FULLY OPERATIONAL.

TARGETED SPACE (FURNITURE OR OTHER OBSTACLES WILL PREVENT DETECTION).

INSTALLATION: LOCATE ROOM CONTROLLER AT ACCESSIBLE LOCATION. IN HARD CEILING AREAS, PROVIDE AN ACCESS DOOR. COORDINATE ACCESS DOOR LOCATION WITH THE ARCHITECT. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURE'S INSTALLATION INSTRUCTIONS PRIOR

REFER TO TYPICAL OCCUPANCY SENSOR WIRING DETAILS FOR ADDITIONAL REQUIREMENTS.

[PROVIDE HANDHELD LMCT-100 WIRELESS DIGITAL CONFIGURATION TOOL FOR CHANGING DEFAULTS AND TESTING.] . COORDINATE COMPATIBLE DIMMING BALLAST/DRIVER WITH DIMMING CONTROL AS REQUIRED. REFER TO LIGHTING PLAN

### KEYED NOTES:

. LOWER-CASE LETTER INDICATES WHICH FIXTURES ARE CONTROLLED BY WHICH SWITCH/SENSOR.

2. SET SENSOR FOR MANUAL ON, AUTO OFF. UON SHOWN ON LIGHTING PLAN.

ADDITIONAL INFORMATION AS REQUIRED. PROVIDE COMPATIBLE DIMMING ROOM CONTROLLER FOR ZONES CONTROLLED BY PHOTOCELL. REFER TO

FOLLOW MANUFACTURER'S MANUAL TO PROGRAM THIS SWITCH AS 4-ZONE DIMMER.

PROVIDE COMPATIBLE DIMMING ROOM CONTROLLER.

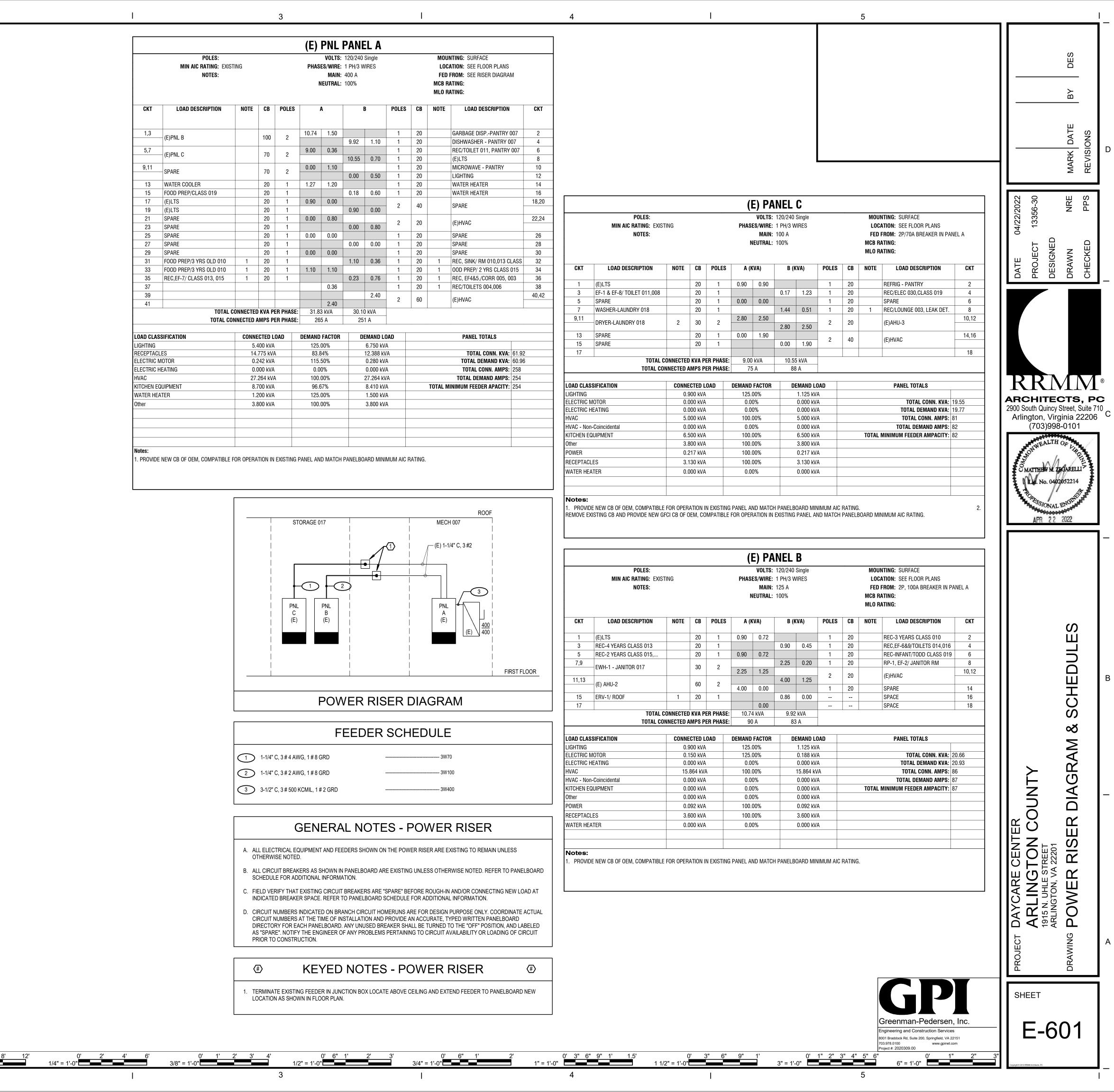
**GENERAL NOTES:** PROVIDE A PRE-BID AND PRE-CONSTRUCITION MEETINGS WITH WATTSTOPPER. COORDINATE SHOP DRAWINGS FROM MANUFACTURER. ADJUST SENSITIVITY SETTINGS ON THE BACK OF THE SENSOR AS NECESSARY TO PROVIDE THE DESIRED COVERAGE. MOVE OUT OF THE CONTROLLED AREA - THE LIGHTS SHALL TURN OFF. . INSTALL PASSIVE INFRARED WALL SWITCH SENSOR IN SPACE WHERE IT HAS A DIRECT, UNOBSTRUCTED VIEW OF THE

INSTALLATION. IF PENDANT MOUNTED FIXTURES ARE PRESENT, LOCATION AND COVERAGE OF SENSORS SHOULD BE

## FOR AREAS THAT REQUIRE DIMMING ROOM CONTROLLERS.

3. SET SENSOR FOR AUTO ON, AUTO OFF. UON SHOWN ON LIGHTING PLAN. 4. "#" INDICATES QUANTITY OF PUSH BUTTON(S). COORDINATE WITH MANUFACTURER FOR EXACT CAT. NO. AND

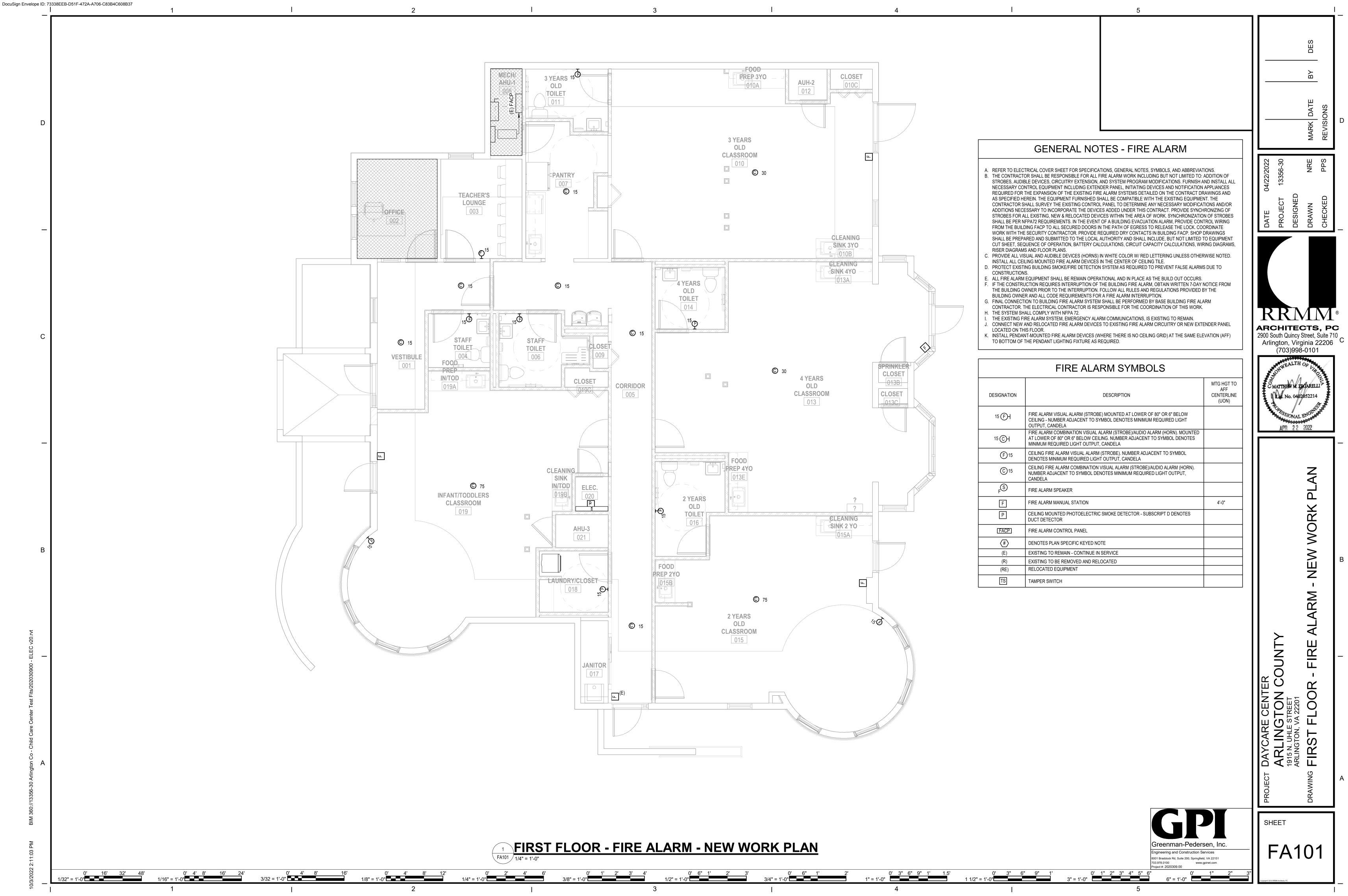
MANUFACTURER'S PLACEMENT GUIDELINES FOR INSTALLATION OF PHOTOCELL AS REQUIRED. JARROW (SHOWN ON PLAN) INDICATES DIRECTION OF THE PHOTOCELL'S FACING.]

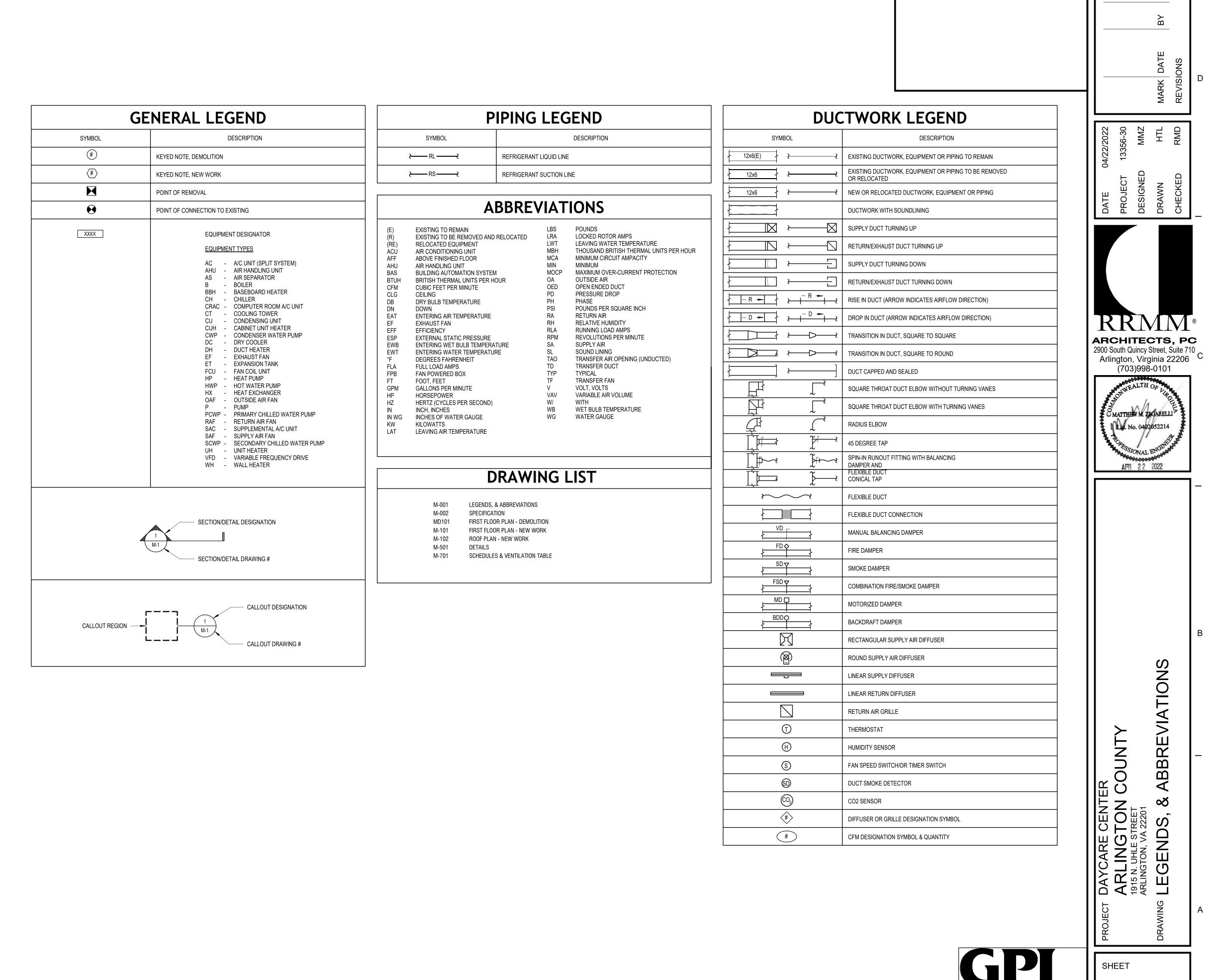


SCHEDULE

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1/4" = 1'-0" 2' 4' 6'

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Greenman-Pedersen, Inc. 8001 Braddock Rd, Suite 200, Springfield, VA 22151

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SMATTHEW M. ZECARELLIS

APR 22 2022

**ABBREVIATIONS** 

ADJACENT STRUCTURE(S) AND SURFACE(S) TO PROVIDE A STRUCTURALLY SOUND FLUSH SURFACE. FLUSH PIPING BEFORE TESTING. CONTRACTOR IS TO CONFIRM ALL EXISTING PIPE SIZES INDICATED ON DRAWINGS. REMOVE ALL ABANDONED PIPING WITHIN THE SCOPE OF WORK. CONDENSATE DRAIN PIPING:

3.1. PIPE: COPPER TUBING ASTM B88 TYPE L, HARD DRAWN TEMPER FITTINGS: SOLDERED JOINT COPPER FITTINGS PER ASTM B16.18 OR B16.22.

3.3. SOLDERED JOINT FILLER MATERIAL: ASTM B 32, LEAD-FREE ALLOYS. INCLUDE WATER-FLUSHABLE FLUX

ACCORDING TO ASTM B 813. REFRIGERATION PIPING:

4.1. PIPE: TYPE ACR NITROGEN CHARGED, HARD DRAWN COPPER TUBING. 4.2. FITTINGS: BRAZED CONNECTIONS SHALL BE MADE WITH COPPER PHOSPHOROUS SILVER FILLER MATERIAL (BCuP) AND IN ACCORDANCE WITH AWS B2.2/2.2M.

. INCREASERS AND DECREASERS: ALL CHANGES IN PIPE SIZE SHALL BE MADE WITH REDUCING FITTINGS. ALL PIPING PENETRATIONS THROUGH INTERIOR WALLS SHALL BE SEALED WITH STC45 CAULK.

### MECHANICAL SPECIFICATIONS

ALL DUCTWORK CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH: 1.1. "THE HVAC DUCT CONSTRUCTION STANDARDS", 2005 EDITION BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. (SMACNA) 1.2. "NFPA-90A: AIR CONDITIONING AND VENTILATING STANDARDS", BY THE NATIONAL FIRE PROTECTION AGENCY (NFPA)

ALL DUCTWORK SHALL HAVE A MINIMUM GAUGE OF 24 AND SHALL HAVE A G60 GALVANIZED COATING COMPLYING WITH ASTM A 653/A 653M. PER IECC FOR ALL PRESSURE CLASSES DUCT WORK SHALL BE SEALED (ALL LONGITUDINAL/TRAVERSE JOINTS.

SEAMS AND CONNECTIONS). THIS IS EQUAL TO SMACNA CLASS A. 4. DUCTWORK DIMENSIONS INDICATED ARE CLEAR INSIDE DUCT DIMENSIONS AND SHALL BE INCREASED TO

COMPENSATE FOR THE THICKNESS OF DUCT LINING. FLEXIBLE DUCTWORK SHALL BE ACOUSTICAL FLEXIBLE INSULATED WITH SPUN BOND NYLON INNER LINER, FLEXMASTER 6B OR 6M OR EQUAL. DUCTWORK SHALL BE U.L. LISTED AS A CLASS 1 AIR DUCT CONNECTOR, AND COMPLYING WITH NFPA STANDARDS 90A AND 90B. PROVIDE SPIN-ON COLLAR WITH BUTTERFLY VOLUME DAMPER

AT EACH FLEXIBLE DUCTWORK TAP. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 5'-0" i. ALL EXPOSED ROUND DUCTWORK SHALL BE SINGLE WALL, GALVANIZED METAL HAVING A LONGITUDINAL OR SPIRAL SEAM AS INDICATED ON THE PLANS. SEAM FABRICATED IN ACCORDANCE WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE"; FIGURES 3-1, "ROUND DUCT TRANSVERSE JOINTS".

ALL DUCT PENETRATIONS THROUGH INTERIOR WALLS SHALL BE SEALED WITH STC45 CAULK. 8. RESIDENTIAL DRYER EXHAUST DUCTWORK: SERVING GAS-FIRED OR ELECTRICAL CLOTHES DRYERS CLEARANCES: MAINTAIN 3" MINIMUM CLEARANCE TO COMBUSTIBLES AS REQUIRED BY NFPA 54-1992.

DUCTWORK: 26 GAUGE SHEET METAL ROUND DUCTS, SIZES AS INDICATED ON DRAWINGS. FITTINGS: ELBOWS 26 GAUGE SMOOTH RADIUS ELBOWS WITH CENTERLINE RADIUS EQUAL TO 2-1/2 TIMES THE DIAMETER. ELBOWS SHALL BE AS MANUFACTURED BY IN-O-VATE TECHNOLOGIES, INC., 810 SATURN

STREET, SUITE 21, JUPITER, FL 33477. PHONE: (888)443-7937 WWW.DRYER-ELL.COM 8.4 DRYER VENT CONNECTION BOX: PROVIDE DRYER VENT HOSE RECEPTACLE FOR EACH DRYER. RECEPTACLE SHALL BE CONSTRUCTED OF 22 GAUGE ALUMINIZED STEEL 5-1/8" DEEP X 21" HEIGHT AND 12-1/2" WIDE. THE PREFORMED RECEPTACLE SHALL INCLUDE A KNOCKOUT FOR GAS PIPING. AND SHALL BE UL CLASSIFIED. DRYER BOX SHALL BE AS MANUFACTURED BY IN-O-VATE TECHNOLOGIES, INC.

WALL VENT CAP: HOODED DRYER VENT, WITH BACKDRAFT DAMPER, UV PROTECTED PLASTIC OR

ALUMINUM. COLOR TO BE DETERMINED BY ARCHITECT. CONNECTIONS/ JOINTS: ALUMINUM DUCT TAPE. FABRIC DUCT TAPE IS NOT ALLOWED. SHEET METAL SCREW PENETRATIONS OF DUCTWORK ARE NOT ALLOWED. SEGMENTED OR ADJUSTABLE ELBOWS WILL NOT BE

### 233300 - AIR DUCT ACCESSORIES

CONTROL DAMPERS: 1.1. AMCA 511, CLASS 1A LEAKAGE RATING, WITH LINKAGE OUTSIDE AIRSTREAM, AND BEARING AMCA'S CERTIFIED RATINGS SEAL FOR BOTH AIR PERFORMANCE AND AIR LEAKAGE. 1.2. FRAMES SHALL BE HAT SHAPED, MINIMUM 0.094 INCH THICK, GALVANIZED SHEET STEEL WITH MITERED AND WELDED CORNERS. 1.3. BLADES SHALL GALVANIZED-STEEL, MINIMUM 0.064 INCH THICK SINGLE SKIN OR 0.0747-INCH THICK DUAL SKIN, MAXIMUM BLADE WIDTH OF 6 INCHES AND OPPOSED DESIGN. 1.4. OIL-IMPREGNATED BRONZE BEARINGS AT BOTH ENDS OF OPERATING SHAFT AND THRUST BEARINGS AT EACH END OF EVERY BLADE.

TURNING VANES: 2.1. MANUFACTURED TURNING VANES FOR METAL DUCTS: CURVED BLADES OF GALVANIZED SHEET STEEL; SUPPORT WITH BARS PERPENDICULAR TO BLADES SET; SET INTO VANE RUNNERS SUITABLE FOR DUCT MOUNTING. 2.2. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND

FLEXIBLE"; FIGURES 4-3, "VANES AND VANE RUNNERS," AND 4-4, "VANE SUPPORT IN ELBOWS." FLEXIBLE CONNECTORS: 3.1. MATERIALS SHALL BE FLAME-RETARDANT OR NONCOMBUSTIBLE FABRICS COMPLYING WITH UL 181, CLASS 1. 3.2. INDOOR FLEXIBLE CONNECTOR FABRIC SHALL BE GLASS FABRIC DOUBLE COATED WITH NEOPRENE HAVING A MINIMUM WEIGHT OF 26 OZ./SQ. YD AND A TENSILE STRENGTH OF 480 LBF/INCH IN THE WARP AND 360 LBF/INCH IN THE FILLING. 3.3. SERVICE TEMPERATURE FOR INDOOR CONNECTORS SHALL BE MINUS 40 TO PLUS 200 DEG F. 3.4. OUTDOOR FLEXIBLE CONNECTOR FABRIC SHALL BE GLASS FABRIC DOUBLE COATED WITH WEATHERPROOF, SYNTHETIC RUBBER RESISTANT TO UV RAYS AND OZONE HAVING A MINIMUM WEIGHT OF 24 OZ./SQ. YD. (AND A TENSILE STRENGTH OF 530 LBF/INCH IN THE WARP AND 440 LBF/INCH IN THE FILLING. 3.5. SERVICE TEMPERATURE FOR OUTDOOR CONNECTORS SHALL BE MINUS 50 TO PLUS 250 DEG F.

### 237200 - AIR-TO-AIR ENERGY RECOVERY EQUIPMENT

FIXED PLATE HEAT EXCHANGERS. 2. ACTION SUBMITTALS - PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED. INCLUDE RATED CAPACITIES, OPERATING CHARACTERISTICS, FURNISHED SPECIALTIES, AND ACCESSORIES. INCLUDE WIRING DIAGRAMS.

3. AT CLOSE OUT, PROVIDE OPERATION AND MANTENANCE DATA, INCLUDING MAINTEANCE MANUALS. 4. PROVIDE 10 YEAR WARRANTY ON FIXED PLATE TOTAL HEAT EXCHANGER

5. BASIS OF DESIGN PRODUCT: RENEWAIRE LLC. OTHER ACCEPTABLE MANUFACTURERS: AMERICAN ALDES AND

6. GALVANIZED STEEL CASING

PLATES: EVENLY SPACED AND SEALED AND ARRANGED FOR COUNTER AIRFLOW. PLATE MATERIAL - CHEMICALLY TREATED PAPER WITH SELECTIVE HYDROSCOPICITY AND MOISTURE PERMEABILITY, AND GAS BARRIER PROPERTIES.

8. BYPASS PLENUM WITHIN THE CASING WITH GASKETED FACE AND BYPASS DAMPERS HAVING OPERATING RODS EXTENDED OUTSIDE CASING. 9. DISPOSIBLE PANEL FILTERS

A. COMPLY WITH NFPA 90A

B. FILTER HOLDING FRAMES ARRANGED FOR FLAT OR ANGULAR ORIENTATION WITH ACCESS DOORS ON BOTH SIDES OF UNIT. FILTER SHALL BE REMOVABLE FROM ONE SIDE OR LIFT OUT FROM ACCESS PLENUM

C. FACTORY FABRICATED. VISOUS-COATED. FLAT PANEL TYPE D. THICKNESS 2 INCHES E. INITIAL RESISTANCE 0.10 INCHES WG WITH RECOMMENDED FINAL RESISTANCE OF 0.20 INCHES WG

MINIMUM ARRESTANCE 80 IN ACCORDANCE WITH ASHRAE 52.1 G. MINIMUM MERV RATING 8 ACCORDING TO ASHRAE 52.2 H. MEDIA INTERLACED GLASS FIBERS SPRAYED WITH NONFLAMMABLE ADHESIVE I. FRAME GALVANIZED STEEL WITH METAL GRID ON OUTLET SIDE, STEEL ROD GRID ON INLET SIDE, HINGED, AND

WITH PULL AND RETAINING HANDLES. 10. EXAMINE AREAS AND CONDITIONS WITH INSTALLER PRESENT FOR COMPLIANCE WITH REQUIREMENTS FOR

INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK. 11. EXAMINE CASING INSULATION MATERIALS AND FILTER MEDIA BEFORE AIR-TO-AIR ENERGY RECOVERY EQUIPMENT INSTALLATION. REJECT INSULATION MATERIALS AND FILTER MEDIA THAT ARE WET, MOISTURE DAMAGED, OR MOLD

12. INSTALL FIXED PLATE HEAT EXCHANGERS SO SUPPLY AND EXHAUST AIRSTREAMS FLOW IN OPPOSITE DIRECTIONS

AND INSTALL DUCT ACCESS DOORS IN BOTH SUPPLY AND EXHAUST DUCTS, UPSTREAM AND DOWNSTREAM TO 13. ROOF CURB. INSTALL ON ROOF SURFACE OR CONCRETE BASE, LEVEL AND SECURE, ACCORDING TO NRCA ROOFING AND WATERPROOFING MANUAL - VOLUME 4: CONSTRUCTION DETAILS LOW SLOPE ROOFING. INSTALL AIR

TO AIR ENERGY RECOVERY EQUIPMENT ON CURBS AND COORDINATE ROOF PENETRATIONS AND FLASHING WITH ROOF CONSTRUCTION. SECRUE AIR TO AIR ENERGY RECOVERY EQUIPMENT TO UPPER CURB RAIL AND SECURE CURB BASE TO ROOF FRAMING OR CONCRETE BASE WITH ANCHOR BOLTS.

14. INSTALL UNIT LEVEL ON STRUCTURAL CURBS AND SECURY WITH ANCHOR BOLTS 15. INSTALL UNITS WITH CLEARANCES FOR SERVICE AND MAINTENANCE.

16. INSTALL NEW FILTERS AT COMPLETION BEFORE TESTING AND BALANCING

17. INSTALL ELECTRICAL DEVICES FURNISHED WITH UNITS BUT NOT FACTORY MOUNTED 18. PERFORM OPERATIONAL TEST AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, ENSURE PROPER MOTOR ROTATOIN AND UNIT OPERATION.

19. ADJUST SEALS AND PURGE 20. SET INITIAL TEMPERATURE AND HUMIDITY SET POINTS

21. SET FIELD ADJUSTABLE SWITCHES AND CIRCUTI BREAKER TRIP RANGES AS INDICATED 22. AIR TO AIR ENERGY RECOVERY EQUIPMENT WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND

23. PREPARE TEST AND INSPECTION REPORTS 24. TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN AIR TO AIR ENERGY RECOVERY



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AIRTIGHT/WATERTIGHT SHEET METAL CAP. WHERE EXISTING SYSTEMS ARE INSULATED, WORK SHALL INCLUDE

PUBLICATIONS SHALL MEAN THE USE OF THE LATEST EDITION OF SUCH PUBLICATIONS IN EFFECT AT THE DATE OF

REPAIR AND REPLACEMENT OF INSULATION EITHER DAMAGED OR REMOVED AS A RESULT OF DEMOLITION.

THE INVITATION TO BID. UNLESS OTHERWISE INDICATED. ALL WORK IN THIS DIVISION IS SUBJECT TO THE

INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS", NATIONAL FIRE PROTECTION

25. ALL OF THE MATERIALS WITHIN THE PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD

26. THE CONTRACTOR SHALL NOT INSTALL ANY NEW DUCTWORK AND/OR PIPING ABOVE ANY NEW OR EXISTING

REINFORCED FOIL. WRAP SHALL BE TESTED IN ACCORDANCE WITH ASTME 84, UL 1887 AND NFPA 262.

INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPMENT INDEX OF NOT MORE THAN 50 WHEN TESTED IN

ACCORDANCE WITH ASTM E 84 OR UL 723. ALSO ANY EQUIPMENT INSTALLED IN A PLENUM SHALL BE PLENUM

27. ALL EXISTING PVC PIPE AND NON-PLENUM RATED WIRING LOCATED IN PLENUMS SHALL BE WRAPPED WITH A FIRE BARRIER. FIRE BARRIER WRAP SHALL BE 1/2" THICK, 6 PCF DENSITY, INORGANIC FIBER ENCAPSULATED IN A SCRIM-

ASSOCIATION. 24.5. OCCUPATIONAL SAFETY AND HEALTH ACT.

SWITCHBOARDS, PANELBOARDS, AND/OR MOTOR CONTROL CENTERS.

RATED VMC 602 WITH SUB-SECTIONS

REQUIREMENTS OF ALL PERTINENT LOCAL CODES AND THE FOLLOWING: 24.1. "HVAC DUCT CONSTRUCTION

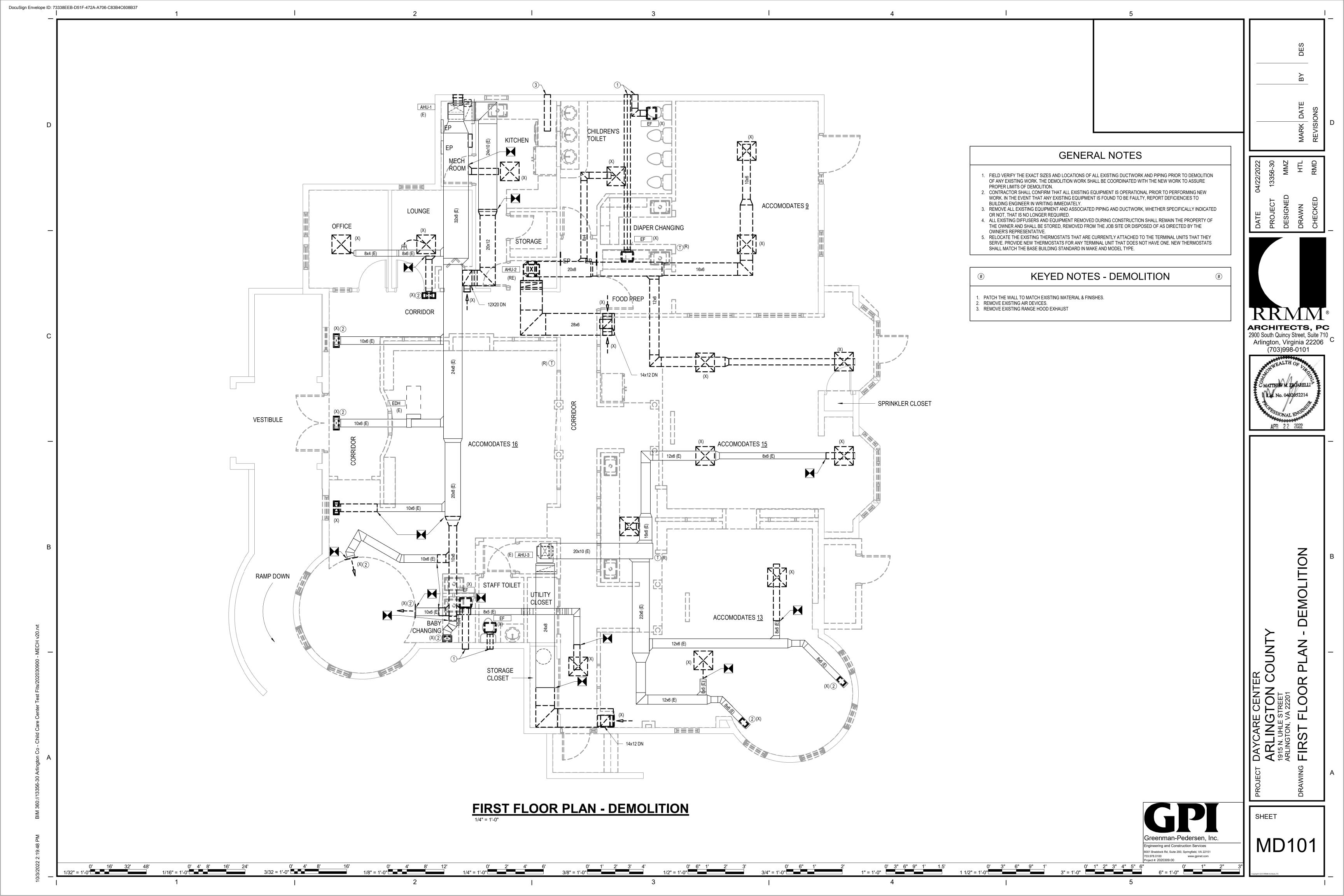
STANDARDS", 2005 EDITION, SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC.

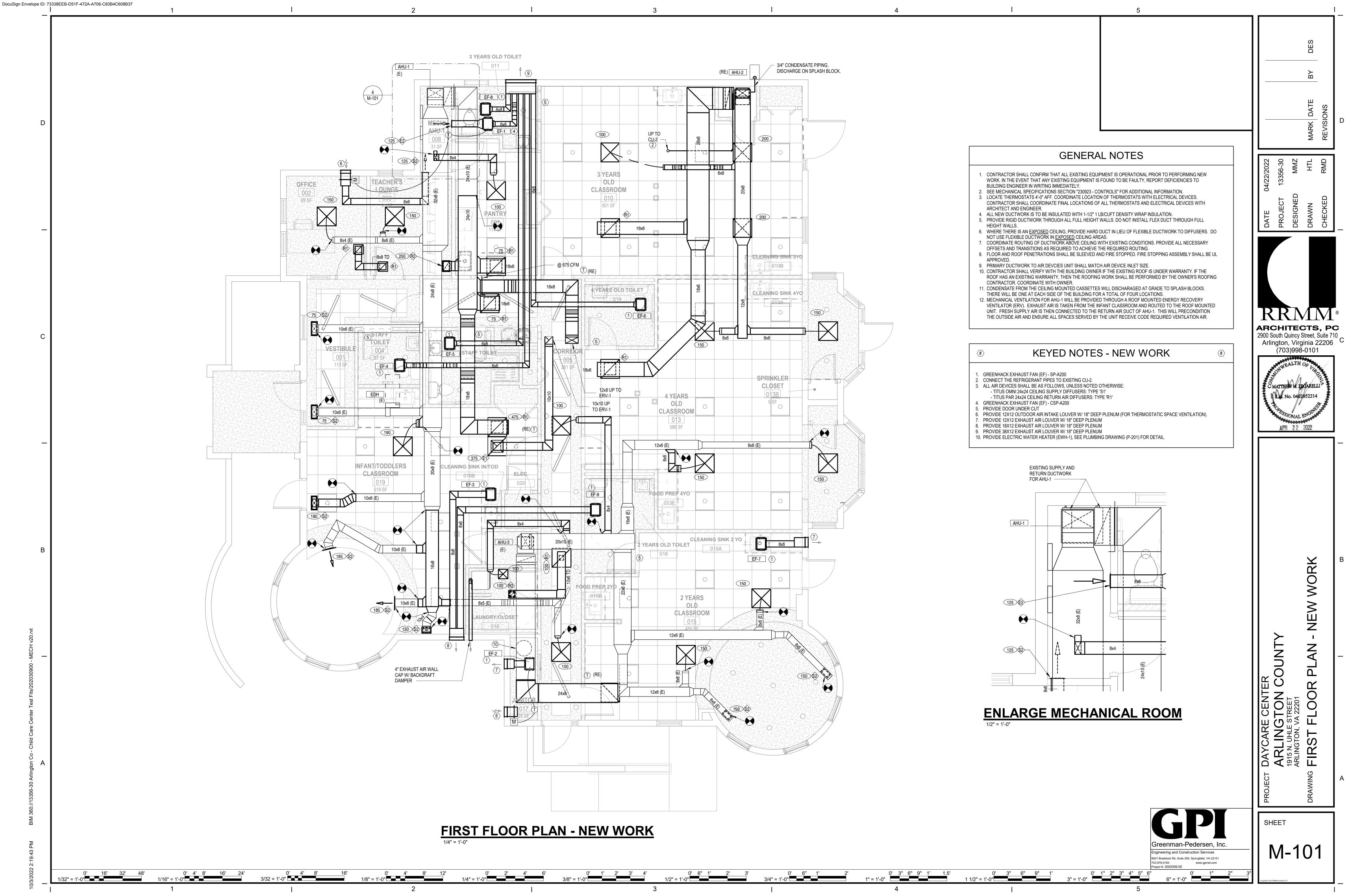
CONDITIONING AND VENTILATING STANDARDS", NATIONAL FIRE PROTECTION ASSOCIATION" 24.4. "NFPA-90B -

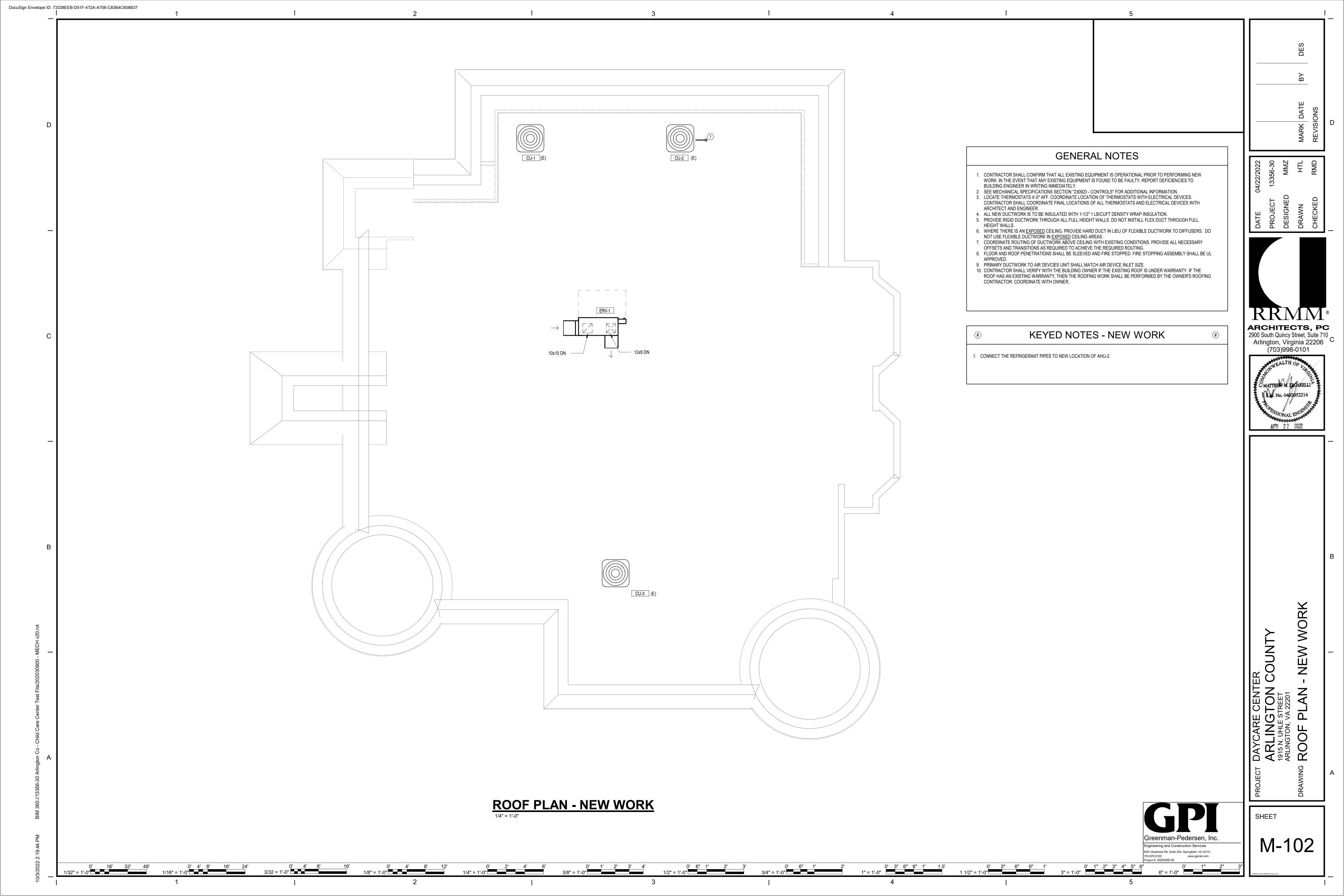
24.2. "NFPA-70 - NATIONAL ELECTRICAL CODE", NATIONAL FIRE PROTECTION ASSOCIATION. 24.3. "NFPA-90A - AIR

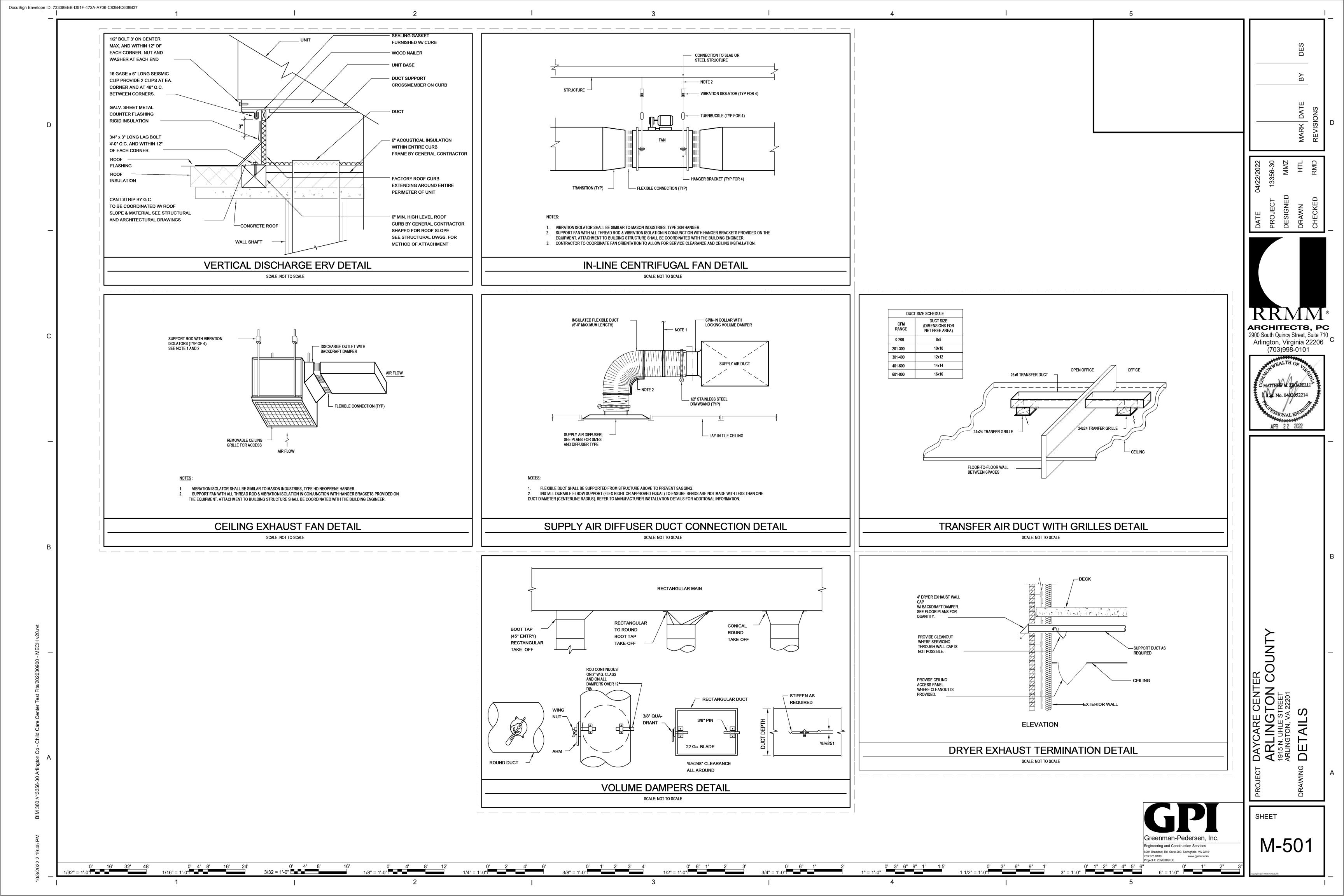
24. REFERENCE TO CATALOGS, STANDARDS, CODES, SPECIFICATIONS, RECOMMENDATIONS AND SIMILAR

6" = 1'-0"









		NATURAL VENTILATION	ON			
			EXT	TERIOR SPACE		
UNIT DESIGNATION	UNIT	Code Description	SPACE AREA	OPERABLE OPENING	OPENING RATIO	MEETS CODE?
			sq. ft.	sq. ft		
013		CLASSROOM	612	28.8	4.7%	YES
4 & 5 YEAR OLD CLASSROOM	AHU-2 & AHU-3					
010		CLASSROOM	527	37.74	7.2%	YES
3 YEARS OLD CLASSROOM	AHU-2					
015		CLASSROOM	477	31.42	6.6%	YES

AHU-3

2 YEARS OLD CLASSROOM

U	nit Name:	AHU-1	Az	Ra	Ra*Az		Pz	Rp	Ra*Az	Vbz	Ez	Voz			Vpz	Vdz	Evz	Xs	Zd	Zp			
Room#	Room Name	Code Description	Floor Area	Area outdoor rate	Area Outdoor Air	Occupant Density (#/1000ft2)	Zone Population	People outdoor rate	People Outdoor Air	Breathing Zone Outdoor Airflow	Zone Air Distribution Effectiveness	Zone Outdoor Airflow	Max. Zone Design Airflow	Local Transfer Air	Zone Primary Airflow	Zone Discharge Airflow	Zone Ventilation Efficiency	Average Outdoor Air Fraction	Discharge Outdoor Air Fraction	Zon Prima Outdoo Fracti			
001	Vestibule	Corridor	113	0.06	7	0	0	0	0	7	0.8	8	150	0	150	150	1.149		0.06	0.06			
002	Office	Office	89	0.06	5	5	1	5	5	10	0.8	13	150	0	150	150	1.119		0.09	0.09			
003	Teacher Lounge	Break Room	91	0.06	5	5	5	5	25	30	0.8	38	150	0	150	150	0.952	0.20548	0.25	0.25			
005A	Corridor	Corridor	261	0.06	16	0	0	0	0	16	0.8	20	100	0	100	100	1.010	0.20546	0.20	0.20			
007	Pantry	Pantry	114	0.06	7	5	1	5	5	12	0.8	15	100	0	100	100	1.057		0.15	0.15			
019	Infant Calssroom	Daycare (2)	519	0.18	93	25	15	10	150	243	0.8	304	900	0	900	900	0.867		0.34	0.34			
		System Floor Area =	1187	ΣRaAz =	134	ΣPz =	22	ΣRpPz =	185			Unit CFM =	1550	Vps =	1550	Ev=	0.867						
				Ps = System Population Occupant Diversity						22			Vot			% Ur	nit Outdoor A	ir					
										100%		Outd	oor Air Intake	Flow Rate			24%						
			Vol	ı Uncorrected	Outdoor Air	r Intake	319			367													

																			ENER	RGY RECOV	ERY VEN	TILATOR																		
	MODEL INFOR	RMATION																		ENERGY RE	COVERY [	DATA													UNIT IN	FORMATIO	N			
															SI	JMMER/C	OOLING							WIN	NTER/HEA	TING											FIL	TERS.		
				SI	JPPLY All	R FLOW		EXHA	JST AIR F	LOW (CF	M)		OODTUC	R AIR		FRESH A	AIR		ROOM	AIR		OUTDO	OR AIR		FRESH A	.IR		ROOM A	AIR		Е	LECTRICA	L		(	OUTDOOR /	4IR		ROOM AI	R
												I	WET		DRY	WET		DRY	WET	1	DRY	WET		DRY	WET		I	WET												
				FRESH		MOTOR		EXHAUST		MOTOR		ROLB	BULB		BULB	BULB	GRAINS	BULB	BULB	GRAINS	BULB	BULB	GRAINS	BULB	BULB	GRAINS	ROLB	ROLB	GRAINS											
UNIT B	ASIS OF DESIGN	MODEL	LOCATION	AIR (CFM)	ESP	HP (EA)	FLA 4	AIR (CFM)	ESP	HP (EA.)	) FLA	(F)	(F)	GRAINS/LI	(F)	(F)	/LB	(F)	(F)	/LB	(F)	(F)	/LB	(F)	(F)	/LB	(F)	(F)	/LB	VOLTAGE	PHASE	HZ	MCA	МОСР	TYPE	DEPTH	RATING	TYPE	DEPTH	RATING NO
ERV-1	RENEWAIRE	HE-1XRT	Roof	675	1.14	0.75	9	375	1.71	75	9	95	78	119.2	84.8	72.4	100.8	75	62.5	65.4	10	9	7.4	40.6	33.6	17.6	70	51.4	27.4	120	1	60	20.2	25	PLEATED	2"	MERV-8	PLEATE	2"	MERV-8

1) SUPPLY AND EXHUAST FANS DO NOT REQUIRE VFD

# AIR DEVICE SCHEDULE

NOTES: 1. THIS SCHEDULE SHALL BE USED TO DETERMINE AIR DEVICE TYPE AND SIZE.

1545-1575

2. SIZE SHALL BE BASED ON CFM SHOWN ON FLOOR PLANS AND/OR OTHER RELATED DRAWINGS UNLESS OTHERWISE INDICATED

ON THE DRAWINGS. 3. SEE ARCH. REFLECTED CEILING PLANS AND/OR ARCH. ROOM FINISH SCHEDULES TO DETERMINE CEILING TYPES WHERE AIR DEVICES
ARE TO BE INSTALLED AND PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE AND FINISHED INSTALLATION

			SIZE (IN.)				
SYMBOL	TYPE	NECK	FACE	CFM RANGE	DESCRIPTION	BASIS OF DESIGN	REMARKS
		6" <sub>  </sub>	12 x 12	0 - 125	360 DEGREE HORIZONTAL AIR PATTERN CEILING		
$\wedge$	SUPPLY PLASTER	8"	12 x 12	126 - 200	DIFFUSER. ALUMINUM CONSTRUCTION WITH FACE PANEL. WHITE FINISH. NC 25 MAX. PROVIDE	DIFFUSER ASSEMBLY -	
<b>S1</b>	CEILING	8" <sub>  </sub>	20 X 20	201 - 275	BORDER TYPE 1 (SURFACE MOUNT) FOR GYPSUM		
	DIFFUSER	10"	24 x 24	276 - 350	CEILING		
		10	24 X 24	270-330			
$\langle a \rangle$	SUPPLY	8" []	24 x 24	0 - 250	360 DEGREE HORIZONTAL AIR PATTERN CEILING DIFFUSER. ALUMINUM	DIFFUSER ASSEMBLY -	
S1	LAY-IN CEILING DIFFUSER	10" []	24 x 24	251 - 385	CONSTRUCTION WITH FACE PANEL. WHITE FINISH. NC 25 MAX. PROVIDE BORDER TYPE	TITUS "OMNI-AA"	
	DIFFUSER	12"ø	24 x 24	386 - 550	3 FOR LAY-IN ACOUSTICAL CEILING TILE MOUNTING		
		6 x 6	-	0 - 100	AD HIGTARI E DOUBLE DEEL FOTION DI ADEC		
		10x4			ADJUSTABLE DOUBLE DEFLECTION BLADES  — 3/4 INCH SPACING, O.B.D., OFF-WHITE		
SUF		8 x 6	_	101 - 174	FINISH, 30 NC MAX., FLANGE FRAME,	TITUS "300 RL"	
	SUPPLY	12x4	_	101 171	GASKETS, STEEL.		
S2>	SIDEWALL	12 x 6		175 - 250			
•	REGISTER	16x4	-				
		14 x 6	-	251 - 400			
		18 x 6	-	401 - 500			
		6 x 6	-	0 - 100			
^	DUCTED	611	-	0 - 100	PERFORATED FACE CEILING RETURN OR EXHAUST GRILLE, OFF-WHITE FINISH		
R1	CEILING	8 x 8	-	101 - 200		TITUS "PAR"	
OR	RETURN OR	80	-	101 - 175	_		
$\wedge$	EXHAUST	10 x 10	-	201 - 340	_		
E1	GRILLE	100	-	176 - 275	_		
·		121	-	286 - 390	_		
		15 X 15	-	341 - 700	_		
		22 X 22	-	701 - 1000			
		6 x 6	-	0 - 100	HORIZONTAL BARS, 35 DEG. DEFLECTION,		
R2	SIDEWALL RETURN	10 x 6	-	101 - 150	STEEL REGISTER, 1/2" SPACING, PROVIDE		
OR	OR	14 x 6	-	151 - 255	BORDER TYPE 3 FOR LAY-IN ACOUSTICAL CEILING TILE MOUNTING, OFF-WHITE FINISH,	TITUS "355 RL"	
E2	EXHAUST GRILLE	18 x 6	-	256 - 350	25 NC MAX., 0.10 NEG. S.P. MAX.		
		24 x 6	-	351 - 450			
				1	<del> </del>		1

							FAN S	CHEDUI	LE														
	GENERAL FAN									GENERAL FAN							GENERAL FAN						
UNIT NO	SERVICE	ROOM NUMBER	TYPE	CFM	FAN	WHEEL	T.S.P.	FRPM		MOTOR		FAN WEIGHT	GREENHECK										
UNIT NU	SERVICE	ROOM NUMBER	TIPE	CFIVI	DIA	TYPE	(IN. W.G.)	FRPIVI	HP	VOLTS	PH	(LBS)											
EF-1	MECH / AHU	011	INLINE	125	-	FC	0.5	825	121W	115	1	23	CSP-200	1234									
EF-2	JANITOR	017	CEILING	75	-	FC	0.5	900	46W	115	1	24	SP-A200	1234									
EF-3	CLEANING SINK	019B	CEILING	150	-	FC	0.5	900	50W	115	1	24	SP-A200	1235									
EF-4	STAFF TOILET	004	CEILING	75	-	FC	0.5	900	46W	115	1	24	SP-A200	1235									
EF-5	STAFF TOILET	006	CEILING	75	-	FC	0.5	900	46W	115	1	24	SP-A200	1235									
EF-6	4 YR OLD TOILET	014	CEILING	75	-	FC	0.5	900	46W	115	1	24	SP-A200	1235									
EF-7	CLEANING SINK 2 YO	015A	CEILING	150	-	FC	0.5	900	50W	115	1	24	SP-A200	1235									
EF-8	3 YR OLD TOILET	011	CEILING	75	-	FC	0.5	900	46W	115	1	24	SP-A200	1235									
EF-9	2 YR OLD TOILET	016	CEILING	75	-	FC	0.5	900	46W	115	1	24	SP-A200	1235									

1 PROVIDE FAN PACKAGE WITH GRAVITY BACKDRAFT DAMPERS.

PROVIDE LINE VOLTAGE THERMOSTAT, INTERLOCK CONTROL WITH MOTORIZED DAMPER.

② BOTTOM INLET WITH GRILLE AND HORIZONTAL DISCHARGE ARRANGEMENT. ③ PROVIDE FACTORY MOUNTED SPEED CONTROLLER.

(5) PROVIDE CONTROL SWITCH ON THE WALL

Greenman-Pedersen, Inc. 8001 Braddock Rd, Suite 200, Springfield, VA 22151 703.978.0100 www.gpinet.com Project #: 2020309.00

ARCHITECTS, PC 2900 South Quincy Street, Suite 710 Arlington, Virginia 22206 (703)998-0101

ATION TABLE

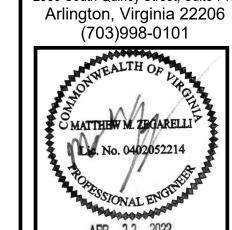
SHEET

M-701

SYMBOL

EXISTING PIPING OR EQUIPMENT TO REMAIN

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APR 22 2022

SHEET

- ALL PLUMBING WORK SHALL CONFORM WITH ALL APPLICABLE CODES, RULES, AND REGULATIONS.
- PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ANY PERMITS. . ALL PLUMBING WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID ANY INTERFERENCE. THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS OF THE
- BUILDING AND EXACT LOCATION OF ALL FIXTURES AND EQUIPMENT. ALL WATER PIPING AND VENT PIPING SHALL BE RUN AS HIGH AS POSSIBLE, CONCEALED ABOVE CEILINGS, UNLESS OTHERWISE NOTED. ALL SANITARY WASTE PIPING SHALL BE RUN AS HIGH AS POSSIBLE BELOW FLOOR SLAB, UNLESS
- . ALL SANITARY WASTE PIPING SHALL BE SLOPED AT APPROPRIATE SLOPE BASED ON PIPE SIZE AND APPLICABLE
- ALL SLOPES AND INVERT ELEVATIONS SHALL BE CHECKED BEFORE ANY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. CONTRACTOR SHALL VERIFY PIPING CAN BE ROUTED AS SHOWN ON DRAWINGS AND CONNECTIONS CAN BE PERFORMED PRIOR TO STARTING WORK.
- 8. MAKE PROPER WASTE, VENT, HOT, AND COLD WATER CONNECTIONS TO ALL FIXTURES AND EQUIPMENT, EVEN THOUGH ALL BRANCH MAINS, ELBOWS, AND CONNECTIONS ARE NOT SHOWN.
- 9. FOR ALL SIZES OF WASTE, VENT, HOT, AND COLD WATER PIPING TO FIXTURES AND EQUIPMENT, SEE SANITARY WASTE AND WATER RISER DIAGRAMS.
- 10. PLUMBING CONTRACTOR SHALL DISINFECT POTABLE WATER SYSTEM PER CODE. 11. PLUMBING CONTRACTOR SHALL INFORM SUBCONTRACTOR OF QUANTITY AND LOCATION OF ACCESS PANELS WHERE REQUIRED FOR ACCESS TO VALVES IN CEILINGS AND WALLS. ACCESS PANELS SHALL BE INSTALLED BY THE
- APPROPRIATE SUBCONTRACTOR. 12. CONTRACTOR SHALL PROVIDE ADDITIONAL WATER LINE DROPS IN WALL WHEN HORIZONTAL RUN IN WALL CONFLICTS
- WITH VENT PIPE IN WALL 13. ALL PIPE PENETRATIONS BELOW SINKS SHALL BE SEALED.
- 14. ALL PIPE PENETRATIONS THROUGH FLOOR SLAB SHALL BE SEALED WITH FIRE STOPPING MATERIAL 15. ALL WATER PIPING SHALL BE TYPE "L" COPPER PIPE WITH 125 PSI WROUGHT COPPER 95/5 SOLDER SWEAT FITTINGS. ALL WASTE AND VENT PIPING SHALL BE DWV COPPER WITH 95/5 SOLDER JOINT FITTINGS. EQUIPMENT CONNECTIONS SHALL BE COPPER TUBING OR FLEX. NO PLASTIC PIPE/TUBE ALLOWED.
- 16. AT THE CONTRACTOR'S OPTION, PROVIDE AND INSTALL CAST IRON WASTE AND VENT PIPING INCLUDING FITTINGS. ABOVE GROUND INSTALLATION SHALL BE NO-HUB CAST IRON SOIL PIPE AND FITTINGS MARKED WITH COLLECTIVE TRADEMARK OF CAST IRON SOIL PIPE INSTITUTE (CISPI) AND BE LISTED BY THE NATIONAL SANITATION FOUNDATION (NSF) INTERNATIONAL. ALL ASSOCIATED COUPLINGS FOR SAME NO-HUB PIPING ABOVE GROUND SHALL CONFORM TO CAST IRON SOIL PIPE INSTITUTE (CISPI) 310 AND CERTIFIED BY THE NATIONAL SANITATION FOUNDATION (NSF) INTERNATIONAL. BELOW GROUND INSTALLATION SHALL BE HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS MARKED WITH THE COLLECTIVE TRADEMARK OF CAST IRON SOIL PIPE INSTITUTE (CISPI) AND BE LISTED BY NATIONAL
- SANITATION FOUNDATION (NSF) INTERNATIONAL. 17. ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2" THICK INSULATION. ALL HOT WATER AND RECIRCULATION PIPING SHALL BE INSULATED WITH 1" THICK INSULATION. ALL PIPING SHALL BE INSTALLED ON THE INSIDE OF THE BUILDING INSULATION ENVELOPE. PIPING INSULATION SHALL BE 3-1/2 LB. DENSITY, JOHNS-MANVILLE "MICRO-LOK." 18. PROVIDE INDIVIDUAL SHUT-OFF VALVES AT ALL PLUMBING FIXTURES AND APPLIANCES.
- 19. ALL SHUT-OFF VALVES SHALL BE 125 PSI FULL PORT, TWO PIECE, BRONZE BALL VALVES WITH THREADED OR SOLDERED 20. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND DIRECTION OF FLOW FOR EXISTING SEWER LINES WITHIN
- THE BUILDING AND BELOW FLOOR/GRADE PRIOR TO STARTING WORK. 21. SUPPORT ALL PIPING FROM EXISTING OR NEW STRUCTURE AS APPLICABLE ON THIS PROJECT WITH UNITED LABORATORIES (U.L.) LISTED HANGERS AND SUPPORTS SUITABLE FOR THE INTENDED INSTALLATION, DESIGN,
- SELECTION, SPACING, AND APPLICATION OF HANGERS AND SUPPORTS IN COMPLIANCE WITH ANSI B31.1 AND MSS 22. SLAB PENETRATIONS: FOR ALL SLAB PENETRATIONS REQUIRED FOR NEW WORK, GROUND-PENETRATING RADAR OR X-RAY EQUIPMENT SHALL BE USED TO LOCATE REINFORCING BARS, POST-TENSION CABLES, PIPING CONDUITS, PIPING, CONDUITS, ETC. PRIOR TO ANY PENETRATION OF THE SLAB. ALL COMPONENTS SHALL BE CLEARLY MARKED ON THE
- SLAB SURFACE PRIOR TO DRILLING, CORING, ETC. THE CONTRACTOR SHALL NOT CUT REINFORCING BARS, CABLES, ETC. WITHOUT PRIOR AUTHORIZATION FROM THE LANDLORD AND SHALL IMMEDIATELY REPAIR ANY DAMAGES CAUSED BY SLAB PENETRATIONS IN VIOLATION OF THIS PARAGRAPH. ALL SLAB PENETRATIONS SHALL BE FIRE STOPPED AND WATER TIGHT. THE CONTRACTOR MUST RECEIVE THE APPROVAL OF THE LANDLORD'S STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY SUCH WORK. 23. FURNISH THE OWNER WITH A WRITTEN GUARANTEE, STATING THAT ALL MATERIALS AND INSTALLATION ARE IN
- ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ARE FULLY GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK, AND THAT ALL WORK WHICH PROVES DEFECTIVE DURING THAT TIME SHALL BE REPLACED AT NO COST TO THE OWNER. 24. SEE ARCHITECTURAL PLANS FOR PLUMBING FIXTURE SPECIFICATIONS.
- 25. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING ITEMS TO REMAIN DAMAGED DURING CONSTRUCTION TO MATCH EXISTING UNLESS INDICATED OR NOTED OTHERWISE.
- 26. PROVIDE AND INSTALL UNIONS AT CONNECTIONS TO DISSIMILAR METALS; DIELECTRIC TYPE AS REQUIRED. 27. PLUMBING PIPING ACCESSORIES: <u>27.1.</u> DOMESTIC HOT WATER EXPANSION TANK: AMTROL ST-5 TANK OR APPROVED EQUAL; HEAVY DUTY BUTYL DIAPHRAGM NATIONAL SANITATION FOUNDATION (NSF) AND ANSI 61 APPROVED; TOP STAINLESS STEEL PIPING SYSTEM CONNECTION; SIDE CHARGING VALVE; MINIMUM 2.1 GALLONS TOTAL TANK VOLUME; COMPLIES WITH NO LEAD PLUMBING LAW; POLYPROPYLENE LINEAR MATERIAL; STEEL SHELL; 200°F OPERATING PRESSURE; 150 PSIG WORKING PRESSURE. 27.2. TRAP PRIMER VALVE, TPV: MIFAB MR-500 PRESSURE DROP ACTIVATED TRAP SEAL PRIMER WITH LEAD FREE MATERIAL OR APPROVED EQUAL. 1/2" INLET, SCREEN, OPERATES ON INCOMING WATER PRESSURE RANGE 20-125 PSI, CAPABLE OF BEING FULLY DISASSEMBLED AND REPAIRED IN THE FIELD INCLUDING STRAINER SCREEN. OPERATES ON MAXIMUM 3 PSI PRESSURE DROP. 27.3. BACKFLOW PREVENTER, BFP-1: FOR DRINKING WATER SUPPLY SERVICES SUCH AS COFFEE MAKERS, STAND-ALONE ICE MACHINES AND/OR DRINKING WATER DISPENSER: WATTS SERIES 7 DUAL CHECK TYPE OR APPROVED EQUAL, BRONZE BODY CONSTRUCTION, TWO COMPACT REPLACEABLE CHECK MODULES, BUNA-N SEALS AND STAINLESS STEEL SPRINGS, 1/2" UNION CONNECTIONS ON INLETS AND OUTLETS. COMPLY WITH ASSE 1024. 27.4. WATER HAMMER ARRESTOR, WHA: MIFAB OR APPROVED EQUAL PISTON OPERATED TYPE, SEAMLESS HARD DRAWN TYPE K COPPER BODY, RIBBED PISTON DESIGN ASSEMBLE WITH TWO O-RINGS AND LUBRICATED WITH APPROVED SILICONE COMPOUND, LARGE AIR CHAMBER VOLUME,
- CERTIFIED TO ASSE 1010-1996. 27.5. SWING CHECK VALVE, CV: ALL BRONZE, 125 PSI SWP AT 350°F. EQUAL TO MILWAUKEE 509-T. PROVISION FOR RE-GRINDING WITHOUT REMOVAL OF VALVE FROM THE LINE. 28. THE CONTRACTOR SHALL NOT INSTALL ANY NEW PIPING ABOVE ANY NEW OR EXISTING SWITCHBOARDS, PANELBOARDS, AND/OR MOTOR CONTROL CENTERS

IN ADDITION TO RELOCATION OF SPRINKLER HEADS AND BRANCH PIPING, PROVIDE PRICING TO INCLUDE THE RELOCATION OF 100 LF OF 4" OR SMALLER MAIN SPRINKLER PIPING, AND ASSOCIATED FITTINGS AND HANGERS.

**BASE BID - ADDITIONAL PRICING NOTES** 

# LEAK DETECTION SYSTEM SPECIFICATION

LEAK DETECTION SYSTEM: CONTRACTOR SHALL PROVIDE THE FLOODMASTER MODEL RS-080 LEAK DETECTION AUTOMATIC SHUT-OFF SYSTEM TO STOP FLOW OF THE DOMESTIC COLD WATER TO ALL PANTRY EQUIPMENT SHOULD A WATER LEAK BE DETECTED. SYSTEM SHALL INCLUDE AUTOMATIC SHUT-OFF CONTROL VALVE WITH INTERCONNECTING 24V CABLE ROUTED TO REMOTE RECEIVER/ALARM BOX HAVING A LOCAL AUDIBLE ALARM AND MANUAL RESET BUTTON ONE WATER SENSOR PUCK DETECTOR WITH 8 FEET OF INTERCONNECTING 12V CABLE. AND A 120V WALL TRANSFORMER WITH STANDARD WALL OUTLET PLUG. THE REMOTE RECEIVER/ALARM BOX WITH LOCAL AUDIBLE ALARM AND MANUAL RESET BUTTON SHALL BE LOCATED BENEATH THE PANTRY SINK IN AN ACCESSIBLE LOCATION COORDINATED WITH THE ARCHITECT. THE SYSTEM SHALL BE PROVIDED WITH THE PLENUM RATED KIT. MODEL RS-080 RECEIVER/ALARM BOX LOCATED BENEATH THE PANTRY SINK. THE WATER SENSOR PUCK DETECTOR, CONNECTED TO THE REMOTE RECEIVER/ALARM BOX, SHALL BE LOCATED BENEATH THE PANTRY SINK TO DETECT A WATER LEAK WITH THE SENSOR LOCATION COORDINATED WITH THE ARCHITECT. PROVIDE ADDITIONAL SENSORS AS REQUIRED BY LANDLORD. UPON SENSING A WATER LEAK, THE AUTOMATIC CONTROL VALVE SHALL CLOSE TO STOP THE FLOW OF DOMESTIC COLD WATER TO ALL OF THE PANTRY EQUIPMENT AND ENERGIZE A LOCAL AUDIBLE ALARM.

						SCOPE OF WORK:  1. THE GENERAL SCOPE OF THIS PROJECT CONSISTS OF MODIFYING EXISTING SPRINKLER HEADS AND PIPING TO COORDINATE WITH NEW CEILINGS AND ROOM LAYOUTS. REROUTE EXISTING PIPING AS REQUIRED TO COORDINATE WITH NEW LIGHTING, DUCTWORK, PIPING AND EQUIPMENT. RE-USE EXISTING SPRINKLER HEADS WHERE POSSIBLE. THE SYSTEM SHALL BE HYDRAULICALLY CALCULATED AND THE ENTIRE PROJECT AREA SHALL BE FULLY SPRINKLERED. REFER TO ARCHITECTURAL DRAWINGS FOR AREA OF WORK.  2. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS.  3. CONTRACTOR SHALL OBTAIN ALL NECESSARY FLOW DATA TO HYDRAULICALLY CALCULATE NEW SPRINKLER SYSTEM.
						PRODUCTS:  1. SPRINKLER PIPING: MATCH EXISTING.  2. FITTINGS: MATCH EXISTING.  3. FIRE SPRINKLER HEADS:  A. LAY-IN CEILINGS: CONCEALED PENDENT, WHITE FINISH, QUICK RESPONSE, GLASS BULB TYPE.  B. FINISHED CEILINGS: CONCEALED PENDENT, WHITE FINISH, QUICK RESPONSE, GLASS BULB TYPE.  C. EXPOSED CEILINGS: UPRIGHT, BRASS FINISH, QUICK RESPONSE, GLASS BULB TYPE.  4. SUBMITTALS: SUBMIT PLANS AND CALCULATIONS TO THE FIRE MARSHAL'S OFFICE FOR APPROVAL. UPON RECEIPT OF SAID APPROVALS, CONTRACTOR SHALL FURNISH THE OWNER ONE (1) SET BEARING STAMP OF APPROVAL PRIOR TO CONSTRUCTION AND TWO (2) SETS OF "AS-BUILTS" AT COMPLETION OF PROJECT.
						<ol> <li>EXECUTION AND TESTING:</li> <li>ALL PIPE SHALL BE INSTALLED ABOVE CEILINGS, INSIDE WALLS OR IN CONCEALED SPACES WITHIN THE AREA.</li> <li>SPRINKLER SYSTEMS PROTECTING IT EQUIPMENT AREAS SHALL BE VALVED (AND SUPERVISED) SEPARATELY FROM OTHER SPRINKLER SYSTEMS.</li> <li>PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR THE FIRE SPRINKLER INSTALLATION.</li> <li>ALL SYSTEMS SHALL BE SUBJECTED TO HYDROSTATIC TEST OF 200 PSI FOR TWO HOURS, WITHOUT LEAKS OR LOSS OF PRESSURE. TESTING SHALL BE IN ACCORDANCE WITH LOCAL REQUIREMENTS. GIVE THREE (3) DAYS NOTICE TO THE OWNER'S REPRESENTATIVE PRIOR TO TESTING. SUBMIT COMPLETED "CONTRACTOR'S MATERIALS AND TEST CERTIFICATE" TO THE OWNER'S REPRESENTATIVE AFTER SUCCESSFUL COMPLETION OF TESTING.</li> </ol>
			FIX	TUR	RE C	ONNECTION SCHEDULE
			PIPE	01750		
DECIONATION				SIZES		
DESIGNATION	DESCRIPTION	WASTE	VENT	CW	HW	REMARKS
WC-1	DESCRIPTION  WATER CLOSET (CHILD)	WASTE 4"		1	HW 	WATER CLOSET (CHILD): AMERICAN STANDARD MODEL 2315.228.020, "BABY DEVORO", WHITE VITREOUS CHINA, ELONGATED BOWL, AMERICAN STANDARD MODEL 5001G.055 BABY DEVORO OPEN FRONT SEAT AND CHECK HINGE.
			VENT	CW		WATER CLOSET (CHILD): AMERICAN STANDARD MODEL 2315.228.020, "BABY DEVORO", WHITE VITREOUS CHINA,
WC-1	WATER CLOSET (CHILD)	4"	VENT	CW 1/2"		WATER CLOSET (CHILD): AMERICAN STANDARD MODEL 2315.228.020, "BABY DEVORO", WHITE VITREOUS CHINA, ELONGATED BOWL, AMERICAN STANDARD MODEL 5001G.055 BABY DEVORO OPEN FRONT SEAT AND CHECK HINGE.  WATER CLOSET (HANDICAP): AMERICAN STANDARD MODEL 211AA.104, "CHAMPION PRO", WHITE VITREOUS CHINA,
WC-1	WATER CLOSET (CHILD)  WATER CLOSET (ADULT)	4" 2"	VENT 2" 2"	1/2" 3/4"		WATER CLOSET (CHILD): AMERICAN STANDARD MODEL 2315.228.020, "BABY DEVORO", WHITE VITREOUS CHINA, ELONGATED BOWL, AMERICAN STANDARD MODEL 5001G.055 BABY DEVORO OPEN FRONT SEAT AND CHECK HINGE.  WATER CLOSET (HANDICAP): AMERICAN STANDARD MODEL 211AA.104, "CHAMPION PRO", WHITE VITREOUS CHINA, ELONGATED BOWL, AMERICAN STANDARD MODEL 5901.100 OPEN FRONT SEAT AND CHECK HINGE.  AMERICAN STANDARD 0356137.020 "LUCERNE", WHITE VITREOUS CHINA, WALL HUNG,, WITH FAUCET LEDGE. SLOAN MODEL EBF-650 BATTERY POWERED, SENSOR ACTIVATED, CHROME PLATED BRASS, 4" CENTER SET, ELECTRONIC HAND WASHING FAUCET FOR TEMPERED WATER. PROVIDE BELOW DECK MODEL BDT THERMOSTATIC MIXING VALVE. CHROME-PLATED BRASS ANGLE STOP VALVES, SUPPLY PIPES AND ESCUTCHEONS; GRID DRAIN AND TAILPIECE, 1-1/4" x 1-1/2" CHROME-PLATED BRASS P-TRAP, WASTE PIPE COVER TUBE AND ESCUTCHEON. INSULATE ALL PIPING BELOW LAVATORY WITH
WC-1 WC-2 L-1	WATER CLOSET (CHILD)  WATER CLOSET (ADULT)  LAVATORY	4" 2" 1-1/2"	VENT 2" 2" 1-1/2"	1/2" 3/4" 1/2"	1/2"	WATER CLOSET (CHILD): AMERICAN STANDARD MODEL 2315.228.020, "BABY DEVORO", WHITE VITREOUS CHINA, ELONGATED BOWL, AMERICAN STANDARD MODEL 5001G.055 BABY DEVORO OPEN FRONT SEAT AND CHECK HINGE.  WATER CLOSET (HANDICAP): AMERICAN STANDARD MODEL 211AA.104, "CHAMPION PRO", WHITE VITREOUS CHINA, ELONGATED BOWL, AMERICAN STANDARD MODEL 5901.100 OPEN FRONT SEAT AND CHECK HINGE.  AMERICAN STANDARD 0356137.020 "LUCERNE", WHITE VITREOUS CHINA, WALL HUNG,, WITH FAUCET LEDGE. SLOAN MODEL EBF-650 BATTERY POWERED, SENSOR ACTIVATED, CHROME PLATED BRASS, 4" CENTER SET, ELECTRONIC HAND WASHING FAUCET FOR TEMPERED WATER. PROVIDE BELOW DECK MODEL BDT THERMOSTATIC MIXING VALVE. CHROME-PLATED BRASS ANGLE STOP VALVES, SUPPLY PIPES AND ESCUTCHEONS; GRID DRAIN AND TAILPIECE, 1-1/4" x 1-1/2" CHROME-PLATED BRASS P-TRAP, WASTE PIPE COVER TUBE AND ESCUTCHEON. INSULATE ALL PIPING BELOW LAVATORY WITH "TRAP-GEAR" KIT BY PLUMBEREX, INC, OR APPROVED EQUAL.  FOOD PREP SINK: ELKAY GECR 2521, ADA COMPLIANT, 20-GAUGE, 304 STAINLESS STEEL, SOUND DEADENING, 5-1/4" DEEP BOWL, 3 HOLES. PROVIDE AMERICAN STANDARD 4175.500 FAUCET, 1.5 GPM AERATOR, SINGLE HANDLE, CHROME-PLATED BRASS P-TRAP, WASTE PIPE
WC-1 WC-2 L-1	WATER CLOSET (CHILD)  WATER CLOSET (ADULT)  LAVATORY  CLASSROOM SINK (FOOD PREP)	4" 2" 1-1/2"	VENT 2" 2-1-1/2"	CW 1/2" 3/4" 1/2"	1/2"	WATER CLOSET (CHILD): AMERICAN STANDARD MODEL 2315.228.020, "BABY DEVORO", WHITE VITREOUS CHINA, ELONGATED BOWL, AMERICAN STANDARD MODEL 5001G.055 BABY DEVORO OPEN FRONT SEAT AND CHECK HINGE.  WATER CLOSET (HANDICAP): AMERICAN STANDARD MODEL 211AA.104, "CHAMPION PRO", WHITE VITREOUS CHINA, ELONGATED BOWL, AMERICAN STANDARD MODEL 5901.100 OPEN FRONT SEAT AND CHECK HINGE.  AMERICAN STANDARD 0356137.020 "LUCERNE", WHITE VITREOUS CHINA, WALL HUNG,, WITH FAUCET LEDGE. SLOAN MODEL EBF-650 BATTERY POWERED, SENSOR ACTIVATED, CHROME PLATED BRASS, 4" CENTER SET, ELECTRONIC HAND WASHING FAUCET FOR TEMPERED WATER. PROVIDE BELOW DECK MODEL BDT THERMOSTATIC MIXING VALVE. CHROME-PLATED BRASS ANGLE STOP VALVES, SUPPLY PIPES AND ESCUTCHEONS; GRID DRAIN AND TAILPIECE, 1-1/4" x 1-1/2" CHROME-PLATED BRASS P-TRAP, WASTE PIPE COVER TUBE AND ESCUTCHEON. INSULATE ALL PIPING BELOW LAVATORY WITH "TRAP-GEAR" KIT BY PLUMBEREX, INC, OR APPROVED EQUAL.  FOOD PREP SINK: ELKAY GECR 2521, ADA COMPLIANT, 20-GAUGE, 304 STAINLESS STEEL, SOUND DEADENING, 5-1/4" DEEP BOWL, 3 HOLES. PROVIDE AMERICAN STANDARD 4175.500 FAUCET, 1.5 GPM AERATOR, SINGLE HANDLE, CHROME-PLATED BRASS ANGLE STOP VALVES, SUPPLY PIPES AND ESCUTCHEONS, 1-1/2" x 1-1/2" CHROME PLATED BRASS P-TRAP, WASTE PIPE COVER TUBE AND ESCUTCHEON  CLEANING SINK: ELKAY GECR 2521, ADA COMPLIANT, 20-GAUGE, 304 STAINLESS STEEL, SOUND DEADENING, 5-1/4" DEEP BOWL, 3 HOLES. PROVIDE AMERICAN STANDARD 4175.500 FAUCET, 1.5 GPM AERATOR, SINGLE HANDLE, CHROME-PLATED BRASS P-TRAP, WASTE PIPE COVER TUBE AND ESCUTCHEONS, 1-1/2" x 1-1/2" CHROME PLATED BRASS P-TRAP, WASTE PIPE BOWL, 3 HOLES. PROVIDE AMERICAN STANDARD 4175.500 FAUCET, 1.5 GPM AERATOR, SINGLE HANDLE, CHROME-PLATED BRASS ANGLE STOP VALVES, SUPPLY PIPES AND ESCUTCHEONS, 1-1/2" cHROME PLATED BRASS P-TRAP, WASTE PIPE
WC-1 WC-2 L-1 SK-1	WATER CLOSET (CHILD)  WATER CLOSET (ADULT)  LAVATORY  CLASSROOM SINK (FOOD PREP)  CLASSROOM SINK (CLEANING)	4" 2" 1-1/2" 2"	VENT 2" 2" 1-1/2" 1-1/2"	CW 1/2" 3/4" 1/2" 1/2"	1/2" 1/2"	WATER CLOSET (CHILD): AMERICAN STANDARD MODEL 2315.228.020, "BABY DEVORO", WHITE VITREOUS CHINA, ELONGATED BOWL, AMERICAN STANDARD MODEL 5001G.055 BABY DEVORO OPEN FRONT SEAT AND CHECK HINGE.  WATER CLOSET (HANDICAP): AMERICAN STANDARD MODEL 211AA.104, "CHAMPION PRO", WHITE VITREOUS CHINA, ELONGATED BOWL, AMERICAN STANDARD MODEL 5901.100 OPEN FRONT SEAT AND CHECK HINGE.  AMERICAN STANDARD 0356137.020 "LUCERNE", WHITE VITREOUS CHINA, WALL HUNG,, WITH FAUCET LEDGE. SLOAN MODEL EBF-650 BATTERY POWERED, SENSOR ACTIVATED, CHROME PLATED BRASS, 4" CENTER SET, ELECTRONIC HAND WASHING FAUCET FOR TEMPERED WATER. PROVIDE BELOW DECK MODEL BDT THERMOSTATIC MIXING VALVE. CHROME-PLATED BRASS ANGLE STOP VALVES, SUPPLY PIPES AND ESCUTCHEONS; GRID DRAIN AND TAILPIECE, 1-1/4" x 1-1/2" CHROME-PLATED BRASS P.TRAP, WASTE PIPE COVER TUBE AND ESCUTCHEON. INSULATE ALL PIPING BELOW LAVATORY WITH "TRAP-GEAR" KIT BY PLUMBEREX, INC, OR APPROVED EQUAL.  FOOD PREP SINK: ELKAY GECR 2521, ADA COMPLIANT, 20-GAUGE, 304 STAINLESS STEEL, SOUND DEADENING, 5-1/4" DEEP BOWL, 3 HOLES. PROVIDE AMERICAN STANDARD 4175.500 FAUCET, 1.5 GPM AERATOR, SINGLE HANDLE, CHROME-PLATED BRASS ANGLE STOP VALVES, SUPPLY PIPES AND ESCUTCHEONS, 1-1/2" x 1-1/2" CHROME PLATED BRASS P.TRAP, WASTE PIPE COVER TUBE AND ESCUTCHEON  CLEANING SINK: ELKAY GECR 2521, ADA COMPLIANT, 20-GAUGE, 304 STAINLESS STEEL, SOUND DEADENING, 5-1/4" DEEP BOWL, 3 HOLES. PROVIDE AMERICAN STANDARD 4175.500 FAUCET, 1.5 GPM AERATOR, SINGLE HANDLE, CHROME-PLATED BRASS ANGLE STOP VALVES, SUPPLY PIPES AND ESCUTCHEONS, 1-1/2" x 1-1/2" CHROME PLATED BRASS P-TRAP, WASTE PIPE COVER TUBE AND ESCUTCHEON  PANTRY SINK: ELKAY LRAD 2521, ADA COMPLIANT, 18-GAUGE, 18-8 STAINLESS STEEL, SOUND DEADENING, 6-1/2" DEEP BOWL, 3 HOLES. PROVIDE IN-SINK-ERATOR "BADGER 5" DISPOSER; 1/2 HP, 120V. AMERICAN STANDARD 4175.500 FAUCET, 1.5 GPM AERATOR, SINGLE HANDLE, CHROME-PLATED BRASS ANGLE STOP VALVES, SUPPLY PIPES AND ESCUTCHEONS, 1-1/2" x 1-1/2"

1/2"

1/2"

1/2"

1-1/2"

1-1/2"

1-1/2" | 1-1/2" |

PREVENTER

REFRIGERATOR

SERVICE SINK

SHOWER

ELECTRIC WATER COOLER

FIRE SUPPRESSION SPECIFICATIONS

THE WORK SHALL BE PERFORMED BY AN ACCREDITED AUTOMATIC SPRINKLER CONTRACTOR, REGULARLY ENGAGED IN

BUSINESS IN THE WASHINGTON, DC METROPOLITAN AREA FOR AT LEAST THE PAST FIVE YEARS AND FAMILIAR WITH

. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING SPRINKLER PIPING LAYOUT. THE CEILING SPACE IS

EXTREMELY LIMITED AND MUST BE COORDINATED FOR ALL UTILITIES TO FIT WITHIN THE LIMITED SPACE PROVIDED.

SPRINKLER MAINS AND BRANCH PIPING SHALL BE RELOCATED AS REQUIRED TO AVOID CONFLICTS WITH LIGHTING,

DUCTWORK, DIFFUSERS, PIPING, EQUIPMENT, CEILING HEIGHT CHANGES, ETC. REQUESTS FOR CHANGE ORDERS DUE

1. ALL WORK SHALL BE APPLICABLE HAZARD COVERAGE IN ACCORDANCE WITH NFPA-13 AND THE LOCAL FIRE MARSHAL'S

OFFICE. WITHIN THIRTY (30) DAYS OF CONTRACT AWARD, SUBMIT TO THE ENGINEER FOR APPROVAL ALL DEVICES TO

BE USED IN THE WORK. SUBMITTALS SHALL INCLUDE PIPE, HANGERS AND SPRINKLER HEADS. INCLUDE ANY DRAWINGS

. BEFORE COMMENCING ANY OF THIS WORK, VERIFY ALL GOVERNING DIMENSIONS AT THE SITE AND EXAMINE ADJOINING

WORK ON WHICH THIS WORK WILL BE DEPENDENT. REPORT ANY CONFLICTS OR DISCREPANCIES TO THE OWNER.

6. FINAL AUTOMATIC SPRINKLER LAYOUT SHALL COMPLY WITH THE SPACING AND OBSTRUCTION RULES IN NFPA 13 WITH

RESPECT TO WALLS, PARTITIONS, CEILING HUNG FIXTURES AND EQUIPMENT, ARCHITECTURAL EMBELLISHMENTS,

8. COORDINATE SHUTDOWN OF EXISTING SYSTEMS WITH THE OWNER. SHUTDOWN TIME SHALL BE KEPT TO MINIMUM,

9. THE ARCHITECTURAL DRAWINGS INDICATE LIMIT OF CONSTRUCTION. PROVIDE ADDITIONAL SPRINKLER HEADS AND

10. OPEN PLENUM SPACES (CEILING POCKETS) EXCEEDING 36" IN DEPTH SHALL BE SPRINKLERED PER NFPA 13.

11. FURNISH THE OWNER WITH A WRITTEN GUARANTEE, STATING THAT ALL MATERIALS AND INSTALLATION ARE IN

WORK OF OTHER TRADES AND OTHER ITEMS INTEGRAL TO THE CEILING CONFIGURATION AND SPACE PARTITIONING.

ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND ARE FULLY GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK, AND THAT ALL WORK WHICH PROVES DEFECTIVE DURING THAT TIME SHALL BE

THE BUILDING IS PRESENTLY FULLY SPRINKLERED WITH A WET PIPE SYSTEM.

OF ADDITIONAL DATA PROVIDED TO AUTHORITIES HAVING JURISDICTION.

PROVIDE ALL PIPE, FITTINGS, ETC. REQUIRED TO CONNECT TO EXISTING SYSTEMS.

TO A LACK OF COORDINATION SHALL BE REJECTED.

AND PERFORMED WHEN CONVENIENT TO THE OWNER.

REPLACED AT NO COST TO THE OWNER.

RELATED PIPING WHERE REQUIRED TO COMPLETE COVERAGE.

THIS TYPE OF WORK.

CW DOMESTIC COLD WATER  HW DOMESTIC HOT WATER  DOMESTIC HOT WATER RECIRCULATION  WP SANITARY SOLL AND WASTE  WP SANITARY VENT  DO DRAIN LINE  TO D DRAIN LINE  TO D DRAIN LINE  TO D PIPE TURNING UP  PIPE TURNING UP  PIPE TURNING DOWN  VALVE IN VERTICAL  PIPE BRANCH BOTTOM TAKEOFF  PIPE BRANCH TOP TAKEOFF  OFFSET IN PIPE  CAPPED PIPE  CHECK VALVE  UNION  GATE VALVE  WHA WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PICOR DRAIN  POINT OF FREMOVAL  POINT OF REMOVAL  POINT OF REMOVAL  POINT OF REMOVAL  POINT OF REMOVAL  POINT OF DEMOUTION	<b>≻</b> →		EXISTING PIPING OR EQUIPMENT TO BE REMOVED
HWC DOMESTIC HOT WATER RECIRCULATION  WP SANITARY SOIL AND WASTE  VP SANITARY VENT  D DRAIN LINE  ST STORM WATER  FF FIRE PROTECTION PIPING  PIPE TURNING UP  PIPE TURNING DOWN  VALVE IN VERTICAL  PIPE BRANCH BOTTOM TAKEOFF  PIPE BRANCH TOP TAKEOFF  OFFSET IN PIPE  CAPPED PIPE  BALL VALVE  UNION  CHECK VALVE  UNION  WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE DIRECTION OF SESSING	·	CW	DOMESTIC COLD WATER
WP SANITARY SOIL AND WASTE   →	<b>├</b>	HW	DOMESTIC HOT WATER
VP SANITARY VENT   NP D DRAIN LINE   NP STORM WATER   NP FIRE PROTECTION PIPING   NP PIPE TURNING UP   PIPE TURNING DOWN PIPE TURNING DOWN   NALVE IN VERTICAL PIPE BRANCH BOTTOM TAKEOFF   NP PIPE BRANCH TOP TAKEOFF   NP PIPE BRANCH TOP TAKEOFF   NP CAPPED PIPE   NALVE CAPPED PIPE   NALVE CHECK VALVE   NINON CAPPED VIVE   NALVE UNION   NALVE CHECK VALVE   NALVE OSSY   OUTSIDE SCREW & YOKE VALVE   NALVE WHA   NATER HAMMER ARRESTOR PIPE DIRECTION OF FLOW   PIPE PITCHED IN DIRECTION OF FLOW   PIPE PITCHED IN DIRECTION OF FLOW   POINT OF REMOVAL POINT OF CONNECTION TO EXISTING	·	HWC	DOMESTIC HOT WATER RECIRCULATION
D DRAIN LINE  THE ST ST STORM WATER  FP FIRE PROTECTION PIPING  PIPE TURNING UP  PIPE TURNING DOWN  VALVE IN VERTICAL  PIPE BRANCH BOTTOM TAKEOFF  PIPE BRANCH TOP TAKEOFF  OFFSET IN PIPE  CAPPED PIPE  BALL VALVE  UNION  CHECK VALVE  UNION  GATE VALVE  WHA WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  POINT OF CONNECTION TO EXISTING	<del>}</del>	WP	SANITARY SOIL AND WASTE
ST STORM WATER  FF FIRE PROTECTION PIPING  PIPE TURNING UP  PIPE TURNING DOWN  VALVE IN VERTICAL  PIPE BRANCH BOTTOM TAKEOFF  PIPE BRANCH TOP TAKEOFF  OFFSET IN PIPE  CAPPED PIPE  BALL VALVE  CHECK VALVE  UNION  GATE VALVE  WHA WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  POINT OF CONNECTION TO EXISTING	۶	VP	SANITARY VENT
FP FIRE PROTECTION PIPING  PIPE TURNING UP  PIPE TURNING DOWN  VALVE IN VERTICAL  PIPE BRANCH BOTTOM TAKEOFF  PIPE BRANCH TOP TAKEOFF  CAPPED PIPE  CAPPED PIPE  CAPPED PIPE  UNION  CHECK VALVE  UNION  CHECK VALVE  UNION  CHECK VALVE  WHA WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  POINT OF REMOVAL  POINT OF REMOVAL  POINT OF REMOVAL	}	D	DRAIN LINE
PIPE TURNING UP  PIPE TURNING DOWN  VALVE IN VERTICAL  PIPE BRANCH BOTTOM TAKEOFF  PIPE BRANCH TOP TAKEOFF  OFFSET IN PIPE  CAPPED PIPE  BALL VALVE  CHECK VALVE  UNION  GATE VALVE  OS&Y  OUTSIDE SCREW & YOKE VALVE  WHA  WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  POINT OF CONNECTION TO EXISTING	₹——ST——₹	ST	STORM WATER
PIPE TURNING DOWN  VALVE IN VERTICAL  PIPE BRANCH BOTTOM TAKEOFF  PIPE BRANCH TOP TAKEOFF  CAPPED PIPE  CAPPED PIPE  BALL VALVE  CHECK VALVE  UNION  GATE VALVE  UNION  WHA  WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  POINT OF CONNECTION TO EXISTING	₹——-{	FP	FIRE PROTECTION PIPING
	· O		PIPE TURNING UP
PIPE BRANCH BOTTOM TAKEOFF  PIPE BRANCH TOP TAKEOFF  OFFSET IN PIPE  CAPPED PIPE  BALL VALVE  CHECK VALVE  UNION  GATE VALVE  OS&Y  OUTSIDE SCREW & YOKE VALVE  WHA  WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  POINT OF CONNECTION TO EXISTING	€		PIPE TURNING DOWN
PIPE BRANCH TOP TAKEOFF  OFFSET IN PIPE  CAPPED PIPE  BALL VALVE  CHECK VALVE  UNION  GATE VALVE  UNION  WHA  WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  POINT OF REMOVAL  POINT OF CONNECTION TO EXISTING	} <sub>1</sub>		VALVE IN VERTICAL
OFFSET IN PIPE  CAPPED PIPE  BALL VALVE  CHECK VALVE  UNION  UNION  GATE VALVE  OS&Y  OUTSIDE SCREW & YOKE VALVE  WHA  WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  POINT OF REMOVAL  POINT OF CONNECTION TO EXISTING	∫ j · · · j		PIPE BRANCH BOTTOM TAKEOFF
CAPPED PIPE  BALL VALVE  CHECK VALVE  UNION  GATE VALVE  OS&Y  OUTSIDE SCREW & YOKE VALVE  WHA  WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  FD  FD  FLOOR DRAIN  POINT OF REMOVAL  POINT OF CONNECTION TO EXISTING	· · · · · · · · · · · · · · · · · · ·		PIPE BRANCH TOP TAKEOFF
BALL VALVE  CHECK VALVE  UNION  GATE VALVE  OS&Y  OUTSIDE SCREW & YOKE VALVE  WHA  WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  POINT OF REMOVAL  POINT OF CONNECTION TO EXISTING	<b>₹</b>		OFFSET IN PIPE
CHECK VALVE  UNION  GATE VALVE  OS&Y  OUTSIDE SCREW & YOKE VALVE  WHA  WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  FD  FLOOR DRAIN  POINT OF REMOVAL  POINT OF CONNECTION TO EXISTING	·		CAPPED PIPE
UNION  GATE VALVE  OS&Y  OUTSIDE SCREW & YOKE VALVE  WHA  WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  FD  FD  FLOOR DRAIN  POINT OF REMOVAL  POINT OF CONNECTION TO EXISTING	≀——Ю́—— ≀		BALL VALVE
GATE VALVE  OS&Y  OUTSIDE SCREW & YOKE VALVE  WHA  WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  FD  FD  FLOOR DRAIN  POINT OF REMOVAL  POINT OF CONNECTION TO EXISTING	<u> </u>		CHECK VALVE
OS&Y  OS&Y  OUTSIDE SCREW & YOKE VALVE  WHA  WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  FD  FLOOR DRAIN  POINT OF REMOVAL  POINT OF CONNECTION TO EXISTING	<b>├</b>		UNION
WHA WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  FD FLOOR DRAIN  POINT OF REMOVAL  POINT OF CONNECTION TO EXISTING	<b>├</b>		GATE VALVE
WHA WATER HAMMER ARRESTOR  PIPE DIRECTION OF FLOW  PIPE PITCHED IN DIRECTION OF FLOW  FD FLOOR DRAIN  POINT OF REMOVAL  POINT OF CONNECTION TO EXISTING	<u> </u>	OS&Y	OUTSIDE SCREW & YOKE VALVE
PIPE PITCHED IN DIRECTION OF FLOW  FD FLOOR DRAIN  POINT OF REMOVAL  POINT OF CONNECTION TO EXISTING	<u> </u>	WHA	WATER HAMMER ARRESTOR
FD FLOOR DRAIN  POINT OF REMOVAL  POINT OF CONNECTION TO EXISTING	<b>₹</b>		PIPE DIRECTION OF FLOW
POINT OF REMOVAL  POINT OF CONNECTION TO EXISTING	<b>₹</b>		PIPE PITCHED IN DIRECTION OF FLOW
POINT OF CONNECTION TO EXISTING	O	FD	FLOOR DRAIN
	<b>M</b>		POINT OF REMOVAL
KEYED NOTE DEMOLITION	<b>8</b>		POINT OF CONNECTION TO EXISTING
			KEYED NOTE, DEMOLITION
KEYED NOTE, NEW WORK	$\bigcirc$		KEYED NOTE, NEW WORK
PLUMBING RISER SYMBOL WITH DESIGNATION			PLUMBING RISER SYMBOL WITH DESIGNATION

### **ABBREVIATIONS**

EXISTING TO REMAIN EXISTING TO BE REMOVED AND RELOCATED LAVATORY RELOCATED EQUIPMENT LBS POUNDS DEMOLISHED EQUIPMENT MAX MAXIMUM MECH MECHANICAL ABV ABOVE ADA AMERICANS WITH DISABILITIES ACT MBH THOUSANDS OF BTU'S PER HOUR AFF ABOVE FINISHED FLOOR MIN MINIMUM BFP BACKFLOW PREVENTER MS MOP SINK BTU BRITISH THERMAL UNITS NSF NATIONAL SANITARY FOUNDATION CISPI CAST IRON SOIL PIPE INSTITUTE OVERFLOW DRAIN CLG CEILING OSD OPEN SITE DRAIN CO CLEANOUT PHASE CONT CONTINUATION POUNDS PER SQUARE INCH CM COFFEE MAKER **ROOF DRAIN** DRINKING FOUNTAIN REFRIGERATOR DFU DRAINAGE FIXTURE UNITS RAIN LEADER DN DOWN SHOWER DW DISHWASHER SINK DWG DRAWING SQ FT SQUARE FOOT, FEET EA EACH SERVICE SINK ELEC ELECTRIC, ELECTRICAL TRAP PRIMER VALVE ELEV ELEVATION TAMPER SWITCH **TYPICAL** EWC ELECTRIC WATER COOLER DEGREES FAHRENHEIT URINAL FCO FLOOR CLEANOUT VOLT, VOLTS FD FLOOR DRAIN VENT STACK GAL GALLON, GALLONS VTR VENT THROUGH ROOF GD GARBAGE DISPOSAL WITH WC WATER CLOSET GPH GALLONS PER HOUR GPM GALLONS PER MINUTE WH WATER HEATER

# DRAWING LIST

WHA WATER HAMMER ARRESTOR

WS WASTE STACK

P-001	LEGENDS, & ABBREVIATIONS	
PD101	FIRST FLOOR PLAN - DEMOLITION	
P-101	FIRST FLOOR PLAN STORM, SANITARY WASTE & VENT - NEW WORK	
P-201	FIRST FLOOR PLAN WATER - NEW WORK	
P-501	DETAILS & SCHEDULES	
P-701	RISER DIAGRAMS	

Greenman-Pedersen, Inc. 8001 Braddock Rd, Suite 200, Springfield, VA 22151

NOTE:

EWC-1

SERVICE SINK: FIAT MOP SERVICE BASIN MODEL TSB3000, 24"x24"x12" DEEP. PROVIDE WITH FIAT SERVICE SINK FAUCET

BP-56-300-B30-V TEMPTROL II SHOWER SYSTEM WITH HAND SPRAY WITH 2.5 GPM FLOW RATE. COMPLETE WITH 5-FT. FLEXIBLE METAL HOUSE, IN-LINE VACUUM BREAKER, 30" SLIDE BAR AND INTEGRAL SERVICE STOP. SEE ARCHITECTURAL DRAWINGS FOR

ELECTRIC WATER COOLER (HANDICAP): ELKAY TWO-LEVEL WALL MOUNT WATER COOLER MODEL ERPBGRNM28K COMPLETE WITH COOLING COIL, SELF-CLOSING DÚAL LEVEL VALVES, AND REFRIGERATION SYSTEM. FOUNTAIN TOP SHALL BE STAINLESS

SHOWER (HANDICAP): SEE ARCHITECTURAL DRAWINGS FOR SHOWER ENCLOSURE. SHOWER VALVE: SYMMONS

MODEL: 830AA WITH VACUUM BREAKER, BUCKET HOOK, AND 3/4" HOSE THREAD ON SPOUT.

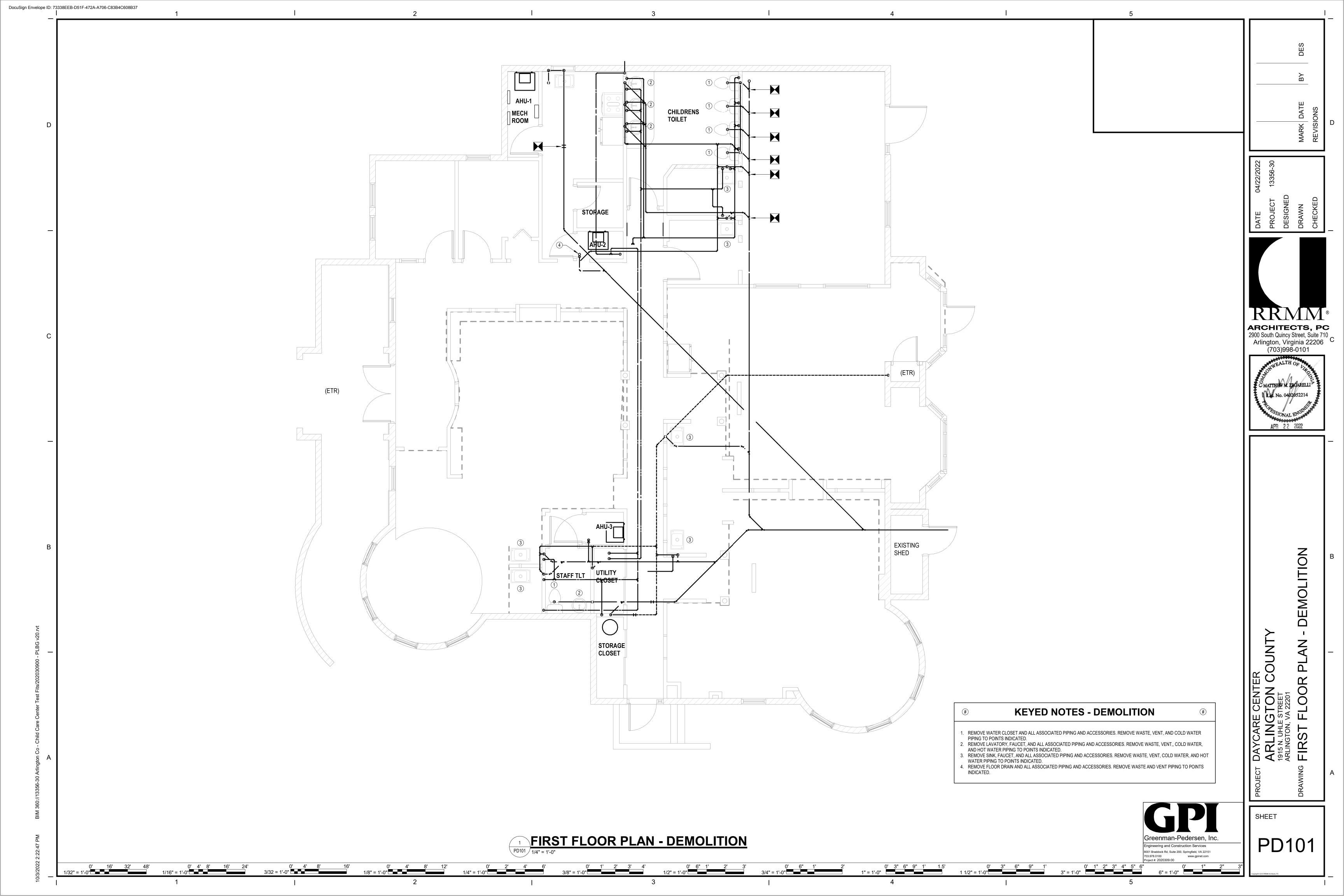
STEEL FINISH. CABINET FINISH SHALL BE SELECTED BY ARCHITECT.

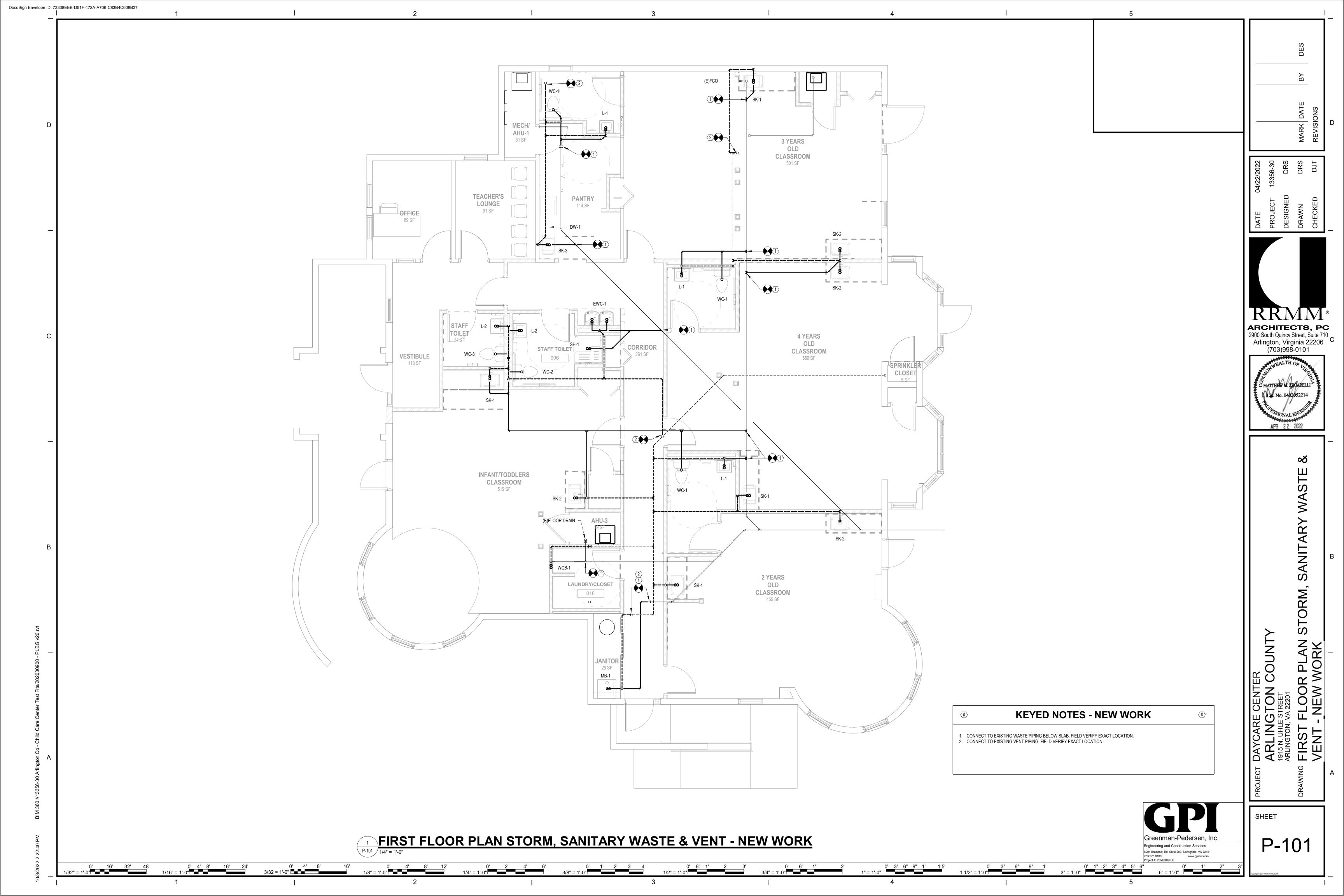
HB HOSE BIB HD HUB DRAIN

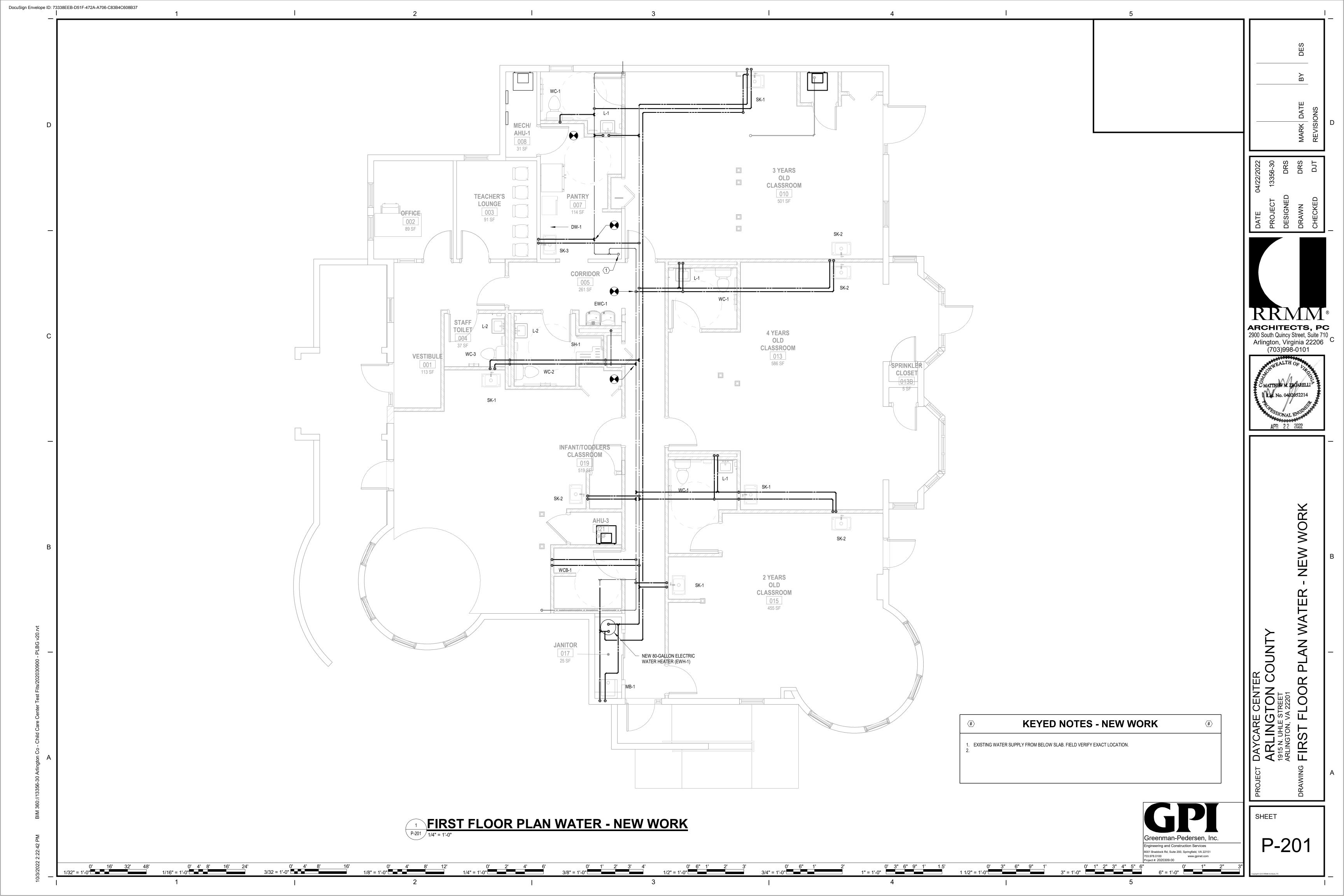
ICE MAKER INV INVERT ELEVATION

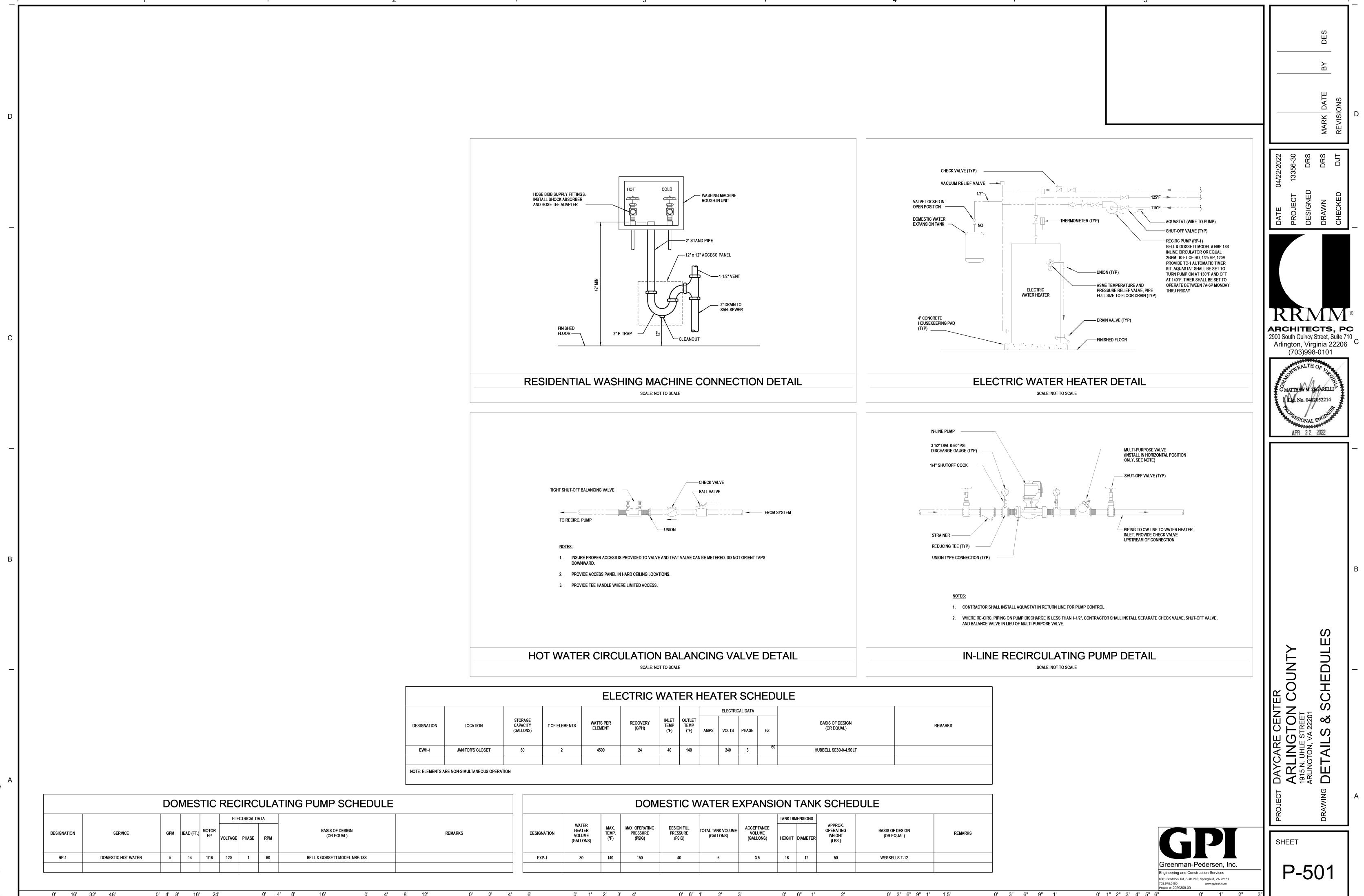
703.978.0100

www.gpinet.com

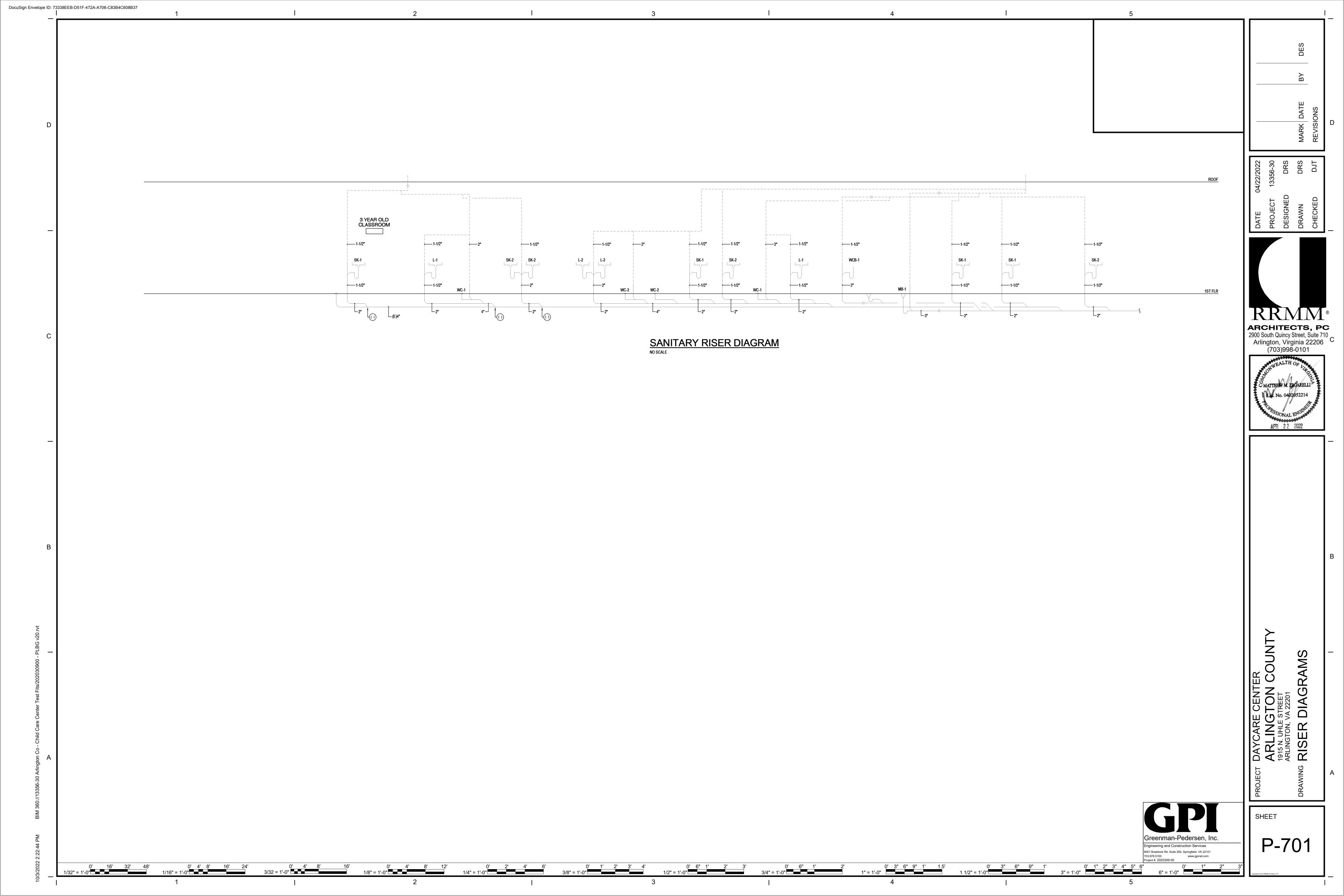


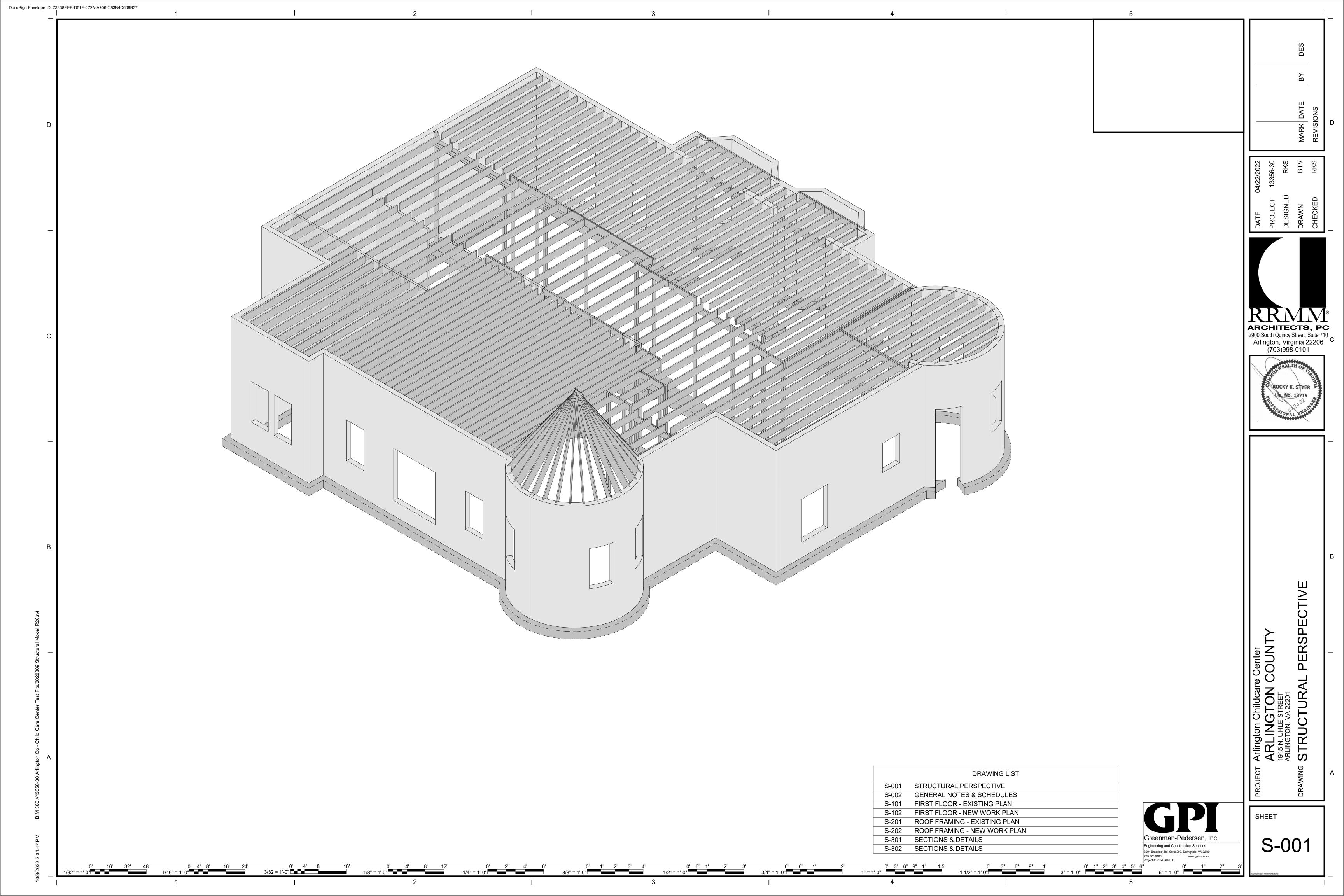






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DOCUMENTS AND SPECIFICATIONS.

VAPOR BARRIER WITH NEW 10 MIL POLY.

RESOLVED BEFORE BEGINNING WORK.

1. CODES: (USE LATEST EDITIONS U.O.N.)

- ROOF MINIMUM LIVE LOAD

d. WIND VELOCITY PRESSURE (q)

e. NET UPLIFT FOR ROOF AREAS

f. NET UPLIFT FOR OVERHANGS

a. GROUND SNOW LOAD (Pg)

a. SEISMIC DESIGN CATEGORY

d. IMPORTANCE FACTOR (le)

COMMONWEALTH OF VIRGINIA

AGGREGATES:

ADMIXTURES:

**APPLICATION** 

a. FOOTINGS

5. REINFORCEMENT:

MASONRY:

c. MORTAR

d. GROUT

7. STEEL:

b. INTERIOR SLAB-ON-GRADE

c. EXTERIOR SLAB-ON-GRADE

DOWEL SYSTEM

STRENGTH (f'm)

MASONRY UNITS

e. HORIZONTAL JOINT

1) CONCRETE

REINFORCING

a. MASONRY COMPRESSIVE

b. LOAD BEARING CONCRETE

b. OTHER STRUCTURAL PLATES

SMOOTH AND THREADED ROD

POST-INSTALLED ADHESIVE ANCHORS

HIGH-STRENGTH BOLTS

WELDING ELECTRODES

4. CONCRETE:

TOTAL BASE SHEAR V = C<sub>S</sub>W

e. BASIC SEISMIC FORCE RESISTING SYSTEM

LIGHT FRAME WALLS SHEATHED WITH WOOD

ANALYSIS METHOD: EQUIVALENT LATERAL FORCE

c. EXPOSURE FACTOR (Ce)

d. THERMAL FACTOR (Ct)

e. SLOPE FACTOR (Cs) f. IMPORTANCE FACTOR (Is)

c. SITE COEFFICIENTS

5. EARTHQUAKE LOAD:

b. SITE CLASS

C. FOUNDATIONS:

g. WALL COMPONENTS & CLADDING

b. SLOPED ROOF SNOW LOAD (PF)

INTERNAL PRESSURE COEFFICIENTS

**BUILDINGS 7-16** 

**GRAVITY LOADS:** a. DEAD LOADS:

- ROOF b. LIVE LOADS:

b. EXPOSURE

a. WIND SPEED (Vult)

3. WIND LOADS:

4. SNOW LOAD:

IMMEDIATELY FOR POSSIBLE REDESIGN OF NEW FOOTINGS.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE BEGINNING WORK.

CONTRACT DRAWINGS PRIOR TO INSTALLATION OR FABRICATION.

a. VIRGINIA UNIFORM STANDARD BUILDING CODES (IBC 2018)

BUILDING CLASSIFICATION: RISK CATEGORY II

TYPICAL DETAILS ARE PROVIDED ON THESE DRAWINGS TO DESCRIBE STANDARD

THICKNESS. PROVIDE NEW 6" MINIMUM GRAVEL BASE UNDER ALL PATCHES AND REPLACE

CONSTRUCTION REQUIREMENTS TO BE APPLIED THROUGHOUT THE PROJECT. THE DETAILS

SIGNIFICANT ADJUSTMENTS SHALL BE PRESENTED TO THE PROJECT ENGINEER FOR REVIEW

DETAILING, FABRICATION, AND INSTALLATION. ANY CONFLICTS OR CLARIFICATIONS SHALL BE

PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION UNTIL LOAD FRAMES ARE

SHALL BE ADJUSTED AS REQUIRED TO ACCOUNT FOR VARYING CONDITIONS IN THE FIELD.

AND APPROVAL PRIOR TO INSTALLATION OR FABRICATION. ALL TYPICAL DETAILS SHALL BE

REVIEWED BY THE CONTRACTOR AND APPROPRIATE SUBCONTRACTORS PRIOR TO ANY

COORDINATE SIZE AND INSTALLATION OF ALL OPENINGS WITH APPROPRIATE TRADES AND

AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) MINIMUM DESIGN LOADS FOR

DESIGN HANDBOOK OF THE CRSI (CONCRETE REINFORCING STEEL INSTITUTE)

20 PSF

115 MPH

20 PSF

16 PSF

20 PSF

1.0

STRUCTURE PANEL RATED FOR SHEAR RESISTANCE: R=6.5, Cs=0.02

6. DESIGN SOILS BEARING PRESSURE: ALLOWABLE BEARING PRESSURE OF 1,500 PSF.

FOOTING ARE DESIGNED TO BEAR ON EITHER ENGINEERED FILL OR NATURAL, COMPACTED

TO IDENTIFY ACCEPTABLE BEARING STRATA. ANY EXISTING LOOSE OR UNCOMPACTED FILL

2. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED, PRIOR TO CONCRETE PLACEMENT, BY THE

THE FOLLOWING ASTM STANDARDS AND DESIGN STRESSES SHALL BE USED FOR THE

AIR ENTRAINING ADMIXTURES ASTM C260

EXPOSED TO EARTH AND WEATHER, 6% ± 11/2% BY VOLUME UNLESS OTHERWISE NOTED.

HARD TROWEL FINISH NOT RECOMMENDED FOR AIR-ENTRAINED SLABS. "EXTERIOR"

3500

4500

c. ADHESIVE REINFORCING BAR HILTI HIT-HY 200 OR APPROVED EQUIVALENT

GALVANIZED

ASTM A36

ASTM A325

ASTM F1554 GRADE 36

HILTI HIT-Z ROD IN HIT-HY 200

a. HOLLOW STRUCTURAL SECTIONS ASTM A500, GRADE B,  $F_v = 46$  KSI

MEMBERS ARE THOSE FULLY OR PARTIALLY OUTSIDE OF THE CONDITIONED BUILDING

28 DAYS WT

APPROPRIATE MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT.

ASTM C150, TYPE I, II, OR III

CHEMICAL ADMIXTURES

ENVELOPE AND FULLY OR PARTIALLY ABOVE THE FROST DEPTH.

a. DEFORMED REINFORCING BARS ASTM A615, GRADE 60

b. WELDED WIRE FABRIC (WWF) ASTM A815

MATERIALS ENCOUNTERED BELOW THE BUILDING SHALL BE REMOVED AS PART OF THE SITE

SOILS ENGINEER TO VERIFY SUITABLE BEARING MATERIAL AND CAPACITY AS NOTED. ANY AND

ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE ENGINEERED

FILL MATERIAL AS REQUIRED. SOILS ENGINEER SHALL BE A REGISTERED PROFESSIONAL IN THE

ASTM C33 (NORMAL WEIGHT) 3/4" NOMINAL MAXIMUM AGGREGATE SIZE.

AIR ENTRAIN CONCRETE AS INDICATED BELOW, AND CONCRETE

(PCF)

145

145

1900 PSI (UNIT STRENGTH METHOD)

STRENGTH ON NET AREA = 1900 PSI;

ASTM C270 - TYPE M (BELOW GRADE)

NORMAL WEIGHT (135 PCF)

HOLLOW -ASTM C90; FINISH AND COLOR PER

TYPE S (ABOVE GRADE) ASTM C476; MINIMUM COMPRESSIVE STRENGTH AT

AWS A5.1 OR A5.5, E70XX (STRUCTURAL STEEL)

28 DAYS = 2000 PSI; SLUMP BETWEEN 8" AND 11"

ASTM A951; Fy = 70 KSI, 9 GAUGE TRUSS-TYPE

SPECIFICATIONS; MINIMUM COMPRESSIVE

ASTM C494

EXP.

F0

<u>CLASS</u>

W/C

0.55

0.55

0.45

RATIO AIR-

(MAX.) ENTRAIN

YES

YES

YES

SOILS. REFER TO THE SPECIFICATIONS AND ANY ADDITIONAL EXPLORATIONS BY CONTRACTOR

+0.18 & -0.18

20.0 PSF & -22.0 PSF

S<sub>S</sub>=0.134; S<sub>1</sub>=0.043 S<sub>DS</sub>=0.143; S<sub>D1</sub>=0.069

Fa=1.6; Fv=2.4

20 PSF (PLUS DRIFT LOADS)

30 PSF (300# CONCENTRATED)

BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI-318)

SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS ANSI/AISC 360.

### STRUCTURAL GENERAL NOTES

### E. CONSTRUCTION

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT GENERAL a. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED THE EXISTING WALL FOOTINGS ARE ASSUMED TO BE CONTINUOUS FOOTINGS UNDER THE FOR THE LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY EXISTING FLOOR SLAB AND ARE NOT TURNED DOWN SLABS. IF THE EXISTING CONDITIONS TO BE FOUND DIFFER FROM THESE ASSUMPTIONS, THE ENGINEER OF RECORD IS TO BE NOTIFIED TO DETERMINE PROPER ERECTION PROCEDURES, ALLOWABLE CONSTRUCTION LOADS, AND PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, BRACING, PATCH ALL CUTOUTS IN THE EXISTING SLAB WITH NEW CONCRETE TO MATCH THE EXISTING SHORING, ETC.
  - b. IMPLEMENT JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE SOLELY RESPONSIBILITY OF THE CONTRACTOR. c. THE STRUCTURAL DRAWINGS ARE INTENDED TO INDICATE THE MAIN STRUCTURAL FEATURES FOR THE PROJECT. ANY NON-STRUCTURAL (ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC.)
  - DETAILS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT REFLECT THE COMPLETE CONSTRUCTION. THE PROJECT ARCHITECTURAL AND M/E/P DRAWINGS MUST BE USED IN CONJUNCTION WITH THE PROJECT STRUCTURAL DRAWINGS DURING ALL PHASE OF CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE PROJECT STRUCTURAL DRAWINGS AND THE SPECIFICATIONS AND DRAWINGS OF THE OTHER DISCIPLINES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING THE WORK.
  - d. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, EMBEDS, CURBS, RAMPS, DRAINS, DEPRESSIONS, ETC.
  - e. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN. f. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION
  - REGARDING FINISHES, FIRE RATINGS, FIREPROOFING, WATERPROOFING, ETC. DO NOT SCALE THE STRUCTURAL DRAWINGS. n.  $\,$  IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, SPECIFICATIONS, AND DRAWINGS, THE MOST RIGID REQUIREMENTS GOVERN.
  - i. STORE AND HANDLE STRUCTURAL CONSTRUCTION MATERIALS TO PREVENT ANY ADVERSE EFFECTS ON THE PHYSICAL PROPERTIES OF THE MATERIAL PAY ALL COSTS, INCLUDING INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE CONTRACT DOCUMENTS TO BRING WORK IN COMPLIANCE WITH THE CONTRACTOR DOCUMENTS.

### 2. SHOP DRAWINGS AND SUBMITTALS:

- a. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED
- WITHOUT REVIEW AND RETURNED. b. SUBMIT SHOP DRWINGS AT LEAST 15 BUSINESS DAYS BEFORE DATE REVIEWED SUBMITTALS WILL BE NEEDED. SHOP DRAWINGS SHALL BEAR CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL FIELD MEASUREMENTS. CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA AND HAS CHECKED EACH DRAWINGS FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- THE DETAILS, MATERIALS AND PRODUCTS SPECIFIED OR REFERENCED IN THESE DRAWINGS CONSTITUTE THE ENGINEERED DESIGN FOR THIS PROJECT. PROPOSED SUBSTITUTION OF ALTERNATE DETAILS, MATERIALS OR PRODUCTS (i.e. CONTRACTOR REDESIGN) WILL ONLY BE CONSIDERED IF REQUESTED IN WRITING TO THE SER AT LEAST 14 DAYS IN ADVANCE OF ANY SUBMITTAL THAT IS AFFECTED BY PROPOSED SUBSTITUTION. SUBSTITUTIONS WHICH APPEAR ON ANY SHOP DRAWINGS SUBMITTAL WHICH HAVE NOT BEEN PREVIOUSLY ACCEPTED BY THE SER WILL BE DISAPPROVED AND RETURNED FOR CORRECTION. THE WRITTEN REQUEST MUST INCLUDE THE FOLLOWING: a) SPECIFICALLY IDENTIFY THE PROPOSED SUBSTITUTION AND CLEARLY INDICATE IF IT WILL
- INCLUDE STRUCTURAL ENGINEERING ANALYSIS TO SUBSTANTIATE ITS ADEQUACY. SUBSTITUTIONS WHICH REQUIRE ADDITIONAL ANALYSIS ON THE PART OF THE SER WILL BE SUBJECT TO A FEE FOR SUCH SERVICES. b) PROVIDE PRELIMINARY APPROVAL OF SUBSTITUTION BY OWNER, GC, AND ARCHITECT.
- PROVIDE CERTIFICATION THAT EFFECTS ON OTHER TRADES HAVE BEEN CONSIDERED AND
- d) PROVIDE COST REDUCTION TO BE CREDITED TO OWNER.

### c. SUBMITTALS AND CERTIFICATIONS, IN ADDITION TO STANDARD INDUSTRY PRACTICE

- 1) CAST-IN-PLACE CONCRETE a) SHOP DRAWINGS INDICATING PROPOSED REINFORCING STEEL TO BE PLACED IN THE SLAB FOR
- MILD-REINFORCED CONCRETE CONSTRUCTION. b) DIMENSIONED SHOP DRAWINGS AT ALL LEVELS LOCATING FLOOR FOR REVIEW BY THE ARCHITECT AND SER
- c) CONCRETE MIX DESIGNS, INCLUDING DOCUMENTATION USED TO DETERMINE STANDARD DEVIATION IN ACCORDANCE WITH ACI 301. IF CEMENTITIOUS SUBSTITUTES OR ADMIXTURES ARE TO BE USED, PROVIDE DOCUMENTATION IN THE MIX DESIGN THAT INDICATES CONFORMANCE TO THE MAXIMUM
- d) VERTIFICATIONS OF REINFORCING STEEL COMPLIANCE WITH REFERENCED STANDARDS.

### 2) MASONRY

- a) MASONRY GROUT MIX DESIGN AND MASONRY UNIT CERTIFICATIONS. b) CERTIFICATIONS OF REINFORCING STEEL COMPLIANCE WITH REFERENCED STANDARDS.
- 3) STRUCTURAL STEEL
- a) CERTIFIED COPIES OF MILL TEST REPORTS FOR RECORD PURPOSES ONLY. b) ALL WELD PROCEDURE SPECIFICATIONS THAT ARE QUALIFIED BY TEST (IN ACCORDANCE WITH AWS D1.1), ACCOMPANIED BY PROCEDURE QUALIFICATION RECORDS AND ELECTRODE DATA

### F. FOUNDATIONS AND STRUCTURAL EARTHWORK GENERAL

- a. VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION
- SYSTEM AS SHOWN PRIOR TO STARTING WORK. b. LOCATE AND PROTECT ALL EXISTING UTILITIES, WHETHER INDICATED OR NOT, WHICH MAY BE AFFECTED
- BY THE CONSTRUCTION PROCESS. c. PROTECT EXISTING AND NEW STRUCTURES FROM DAMAGES BY CONSTRUCTION EQUIPMENT. REPAIR DAMAGE OF EXISTING AND NEW CONSTRUCTION CAUSED BY CONSTRUCTION TECHNIQUES.
- d. DO NOT PLACE UTILITY LINES THROUGH OR BELOW FOUNDATIONS WITHOUT THE APPROVAL OF THE SER. e. DO NOT USE EARTH CUTS AS FORMS FOR VERTICAL SURFACES UNLESS APPROVED IN ADVANCE BY THE
- f. PROTECT CONCRETE FOUNDATION FROM FREEZING DURING PLACING AND FOR A PERIOD OF NOT LESS THAN 5 DAYS THEREAFTER.

### BACKFILL: a. USES FREE-DRAINING BACKFILL MATERIAL WITH OPTIMUM MOISTURE CONTENT FOR COMPACTING AND

b. WHERE THE FINAL GRADE ELEVATIONS ARE APPROXIMATELY EQUAL ON BOTH SIDES OF A WALL. BACKFILL IN LIFTS TO MAINTAIN LEVEL ELEVATIONS WITHIN 12" ON BOTH SIDES AT ANY TIME TO PREVENT LATERAL MOVEMENT AND/OR OVERTURNING.

- . PREPARE WRITTEN WELD PROCEDURE SPECIFICATIONS (WPS), IN ACCORDANCE WITH AWS D1.1, FOR ALL WELDING PROCEDURES TO BE USED ON PROJECT. A COPY OF ALL WPS SHALL BE MAINTAINED ON SITE AT
- 2. OBTAIN CURRENT EVIDENCE OF WELDERS PASSING THE APPROPRIATE AWS QUALIFICATION TESTS. SUCH EVIDENCE MAY BE REQUESTED AT ANY TIME DURING THE PROJECT. 3. PROVIDE ACCESS FOR INSPECTION OF ALL FIELD CONNECTIONS FOR PROPER MATERIALS AND
- 4. USE HIGH STRENGTH BOLTS AND NUTS WITH CLEAR MARKINGS AS REQUIRED BY AISC SPECIFICATIONS.
- CONNECTIONS MADE WITH UNMARKED BOLTS AND NUTS WILL BE REJECTED. 5. TIGHTEN ALL A325 BOLTS TO THE "SNUG TIGHT" CONDITION (DEFINED AS ALL PLIES OF THE CONNECTED
- MATERIAL HAVE BEEN BROUGHT INTO TIGHT CONTACT). 6. HOT-DIP GALVANIZED ALL STRUCTURAL STEEL FRAMING IN EXTERIOR LOCATIONS.
- 7. NOTIFY THE SER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.
- 8. REPLACE OR REINFORCE ANY STRUCTURAL STEEL DAMAGED DURING CONSTRUCTION (INCLUDING ANCHOR RODS) AS ACCEPTABLE TO THE SER.

### 9. FIELD CUTTING WITH GAS TORCH IS NOT PERMITTED. 10. WHEN INSTALLING POST-INSTALLED ANCHORS (EXPANSION BOLTS, ADHESIVE ANCHORS, ETC. ) TAKE MEASURES TO AVOID DAMAGE TO EXISTING REINFORCING STEEL AND CONCRETE. CLEAN HOLES IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

- 1. WOOD FRAMING SHALL COMPLY WITH THE SOUTHERN PINE INSPECTION BUREAU, OR SHALL CONFORM TO SPECIFICATIONS AS PUBLISHED BY THE WESTERN WOODS PRODUCTS ASSOCIATION. 2. WOOD FRAMING 2 INCHES x 4 INCHES AND LARGER SHALL BE NO. 2 SOUTHERN PINE, NO. 2 DOUGLAS FIR
- LARCH, OR EQUIVALENT (U.O.N.).
- 3. ANY PLATES IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED (USE CATEGORY 2 AS SPECIFIED BY AWPA) FOR MOISTURE PROTECTION. ALL WOOD EXPOSED TO WEATHER SHALL BE
- PRESSURE TREATED (USE CATEGORY 3B AS SPECIFIED BY AWPA). 4. CONNECTORS SHALL BE AS MANUFACTURED BY THE SIMPSON CO. OR APPROVED EQUAL. CONNECTORS
- SHALL HAVE THE ZMAX (6185) COATING. 5. NAILING, UNLESS NOTED OTHERWISE, SHALL BE PER THE VIRGINIA BUILDING CODE.

### J. DRILLED AND EPOXIED ADHESIVE ANCHOR BOLTS

- 1. ALL DRILLED AND EPOXIED ANCHOR BOLTS PLACED IN CONCRETE SHALL BE HILTI, HIT-Z THREADED RODS WITH HIT HY 200 ADHESIVE SYSTEM OR APPROVED EQUAL (TYP., U.N.O.) ICBO ER-5193.
- 2. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS. ANCHOR SIZES AND EMBEDMENT LENGTHS SHALL BE AS NOTED ON DRAWINGS.
- 3. ANCHOR HOLES SHALL BE CLEANED BY CONTRACTOR AND INSPECTED BY TESTING AND INSPECTIONS AGENCY PRIOR TO ADHESIVE BOLT INSTALLATION, NO EXCEPTIONS.

- SPECIAL INSPECTIONS ARE REQUIRED FOR SOILS AND CONCRETE CONSTRUCTION, IN ACCORDANCE WITH
  - THE VIRGINIA BUILDING CODES (IBC 2018); CHAPTER 17.
- REFER TO STATEMENT OF SPECIAL INSPECTIONS FOR APPLICABLE ITEMS. 3. PROVIDE SPECIAL INSPECTIONS ENGINEER OF RECORD AND TESTING AGENCY FULL ACCESS TO SITE AND CONSTRUCTION.

## ROCKY K. STYER

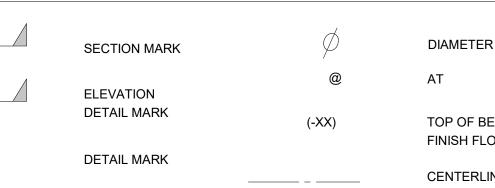
ARCHITECTS, PC

2900 South Quincy Street, Suite 710

(703)998-0101

Arlington, Virginia 22206

### **SYMBOLS**



### TOP OF BEAM FROM FINISH FLOOR

### CENTERLINE NUMBER

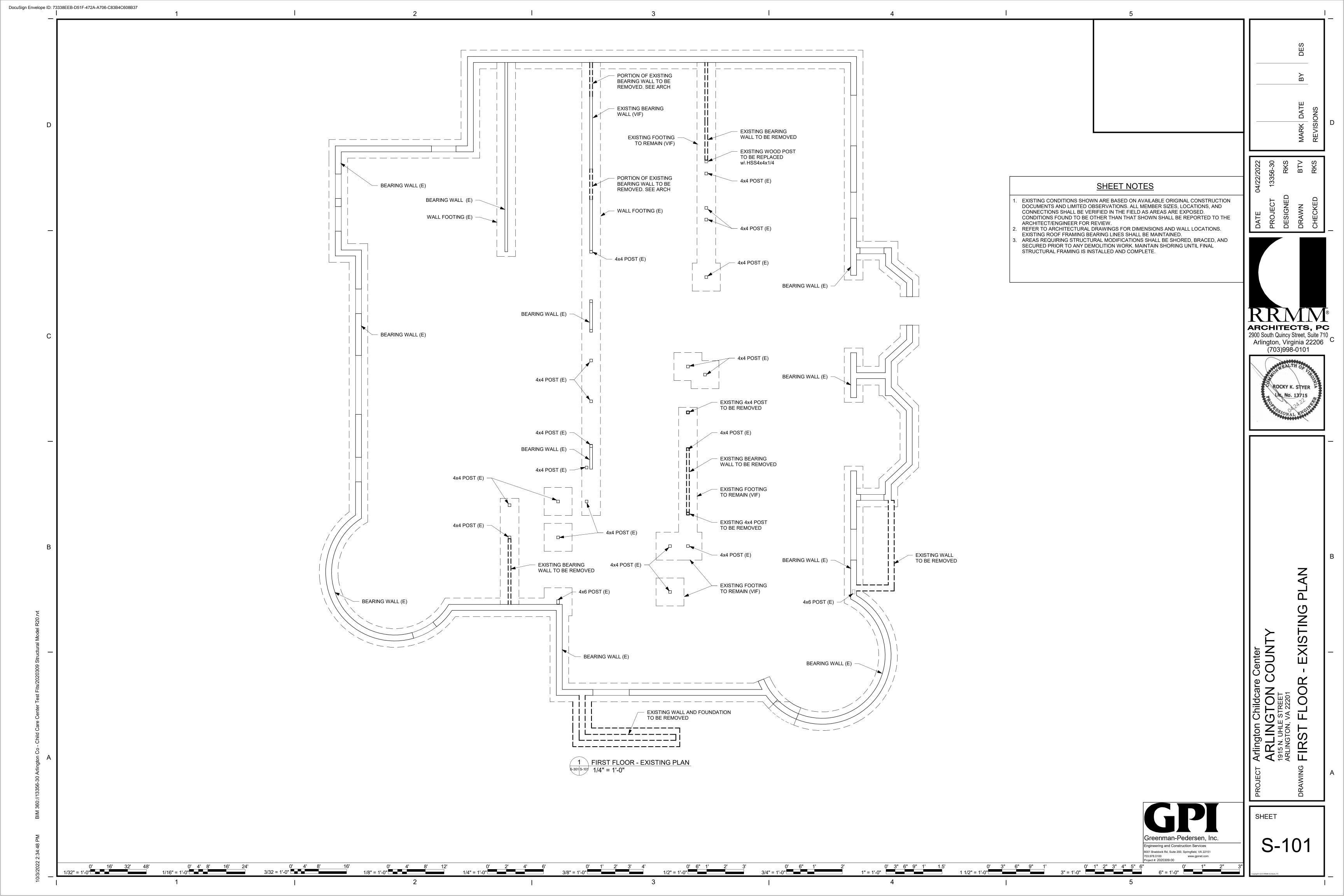
### **ABBREVIATIONS**

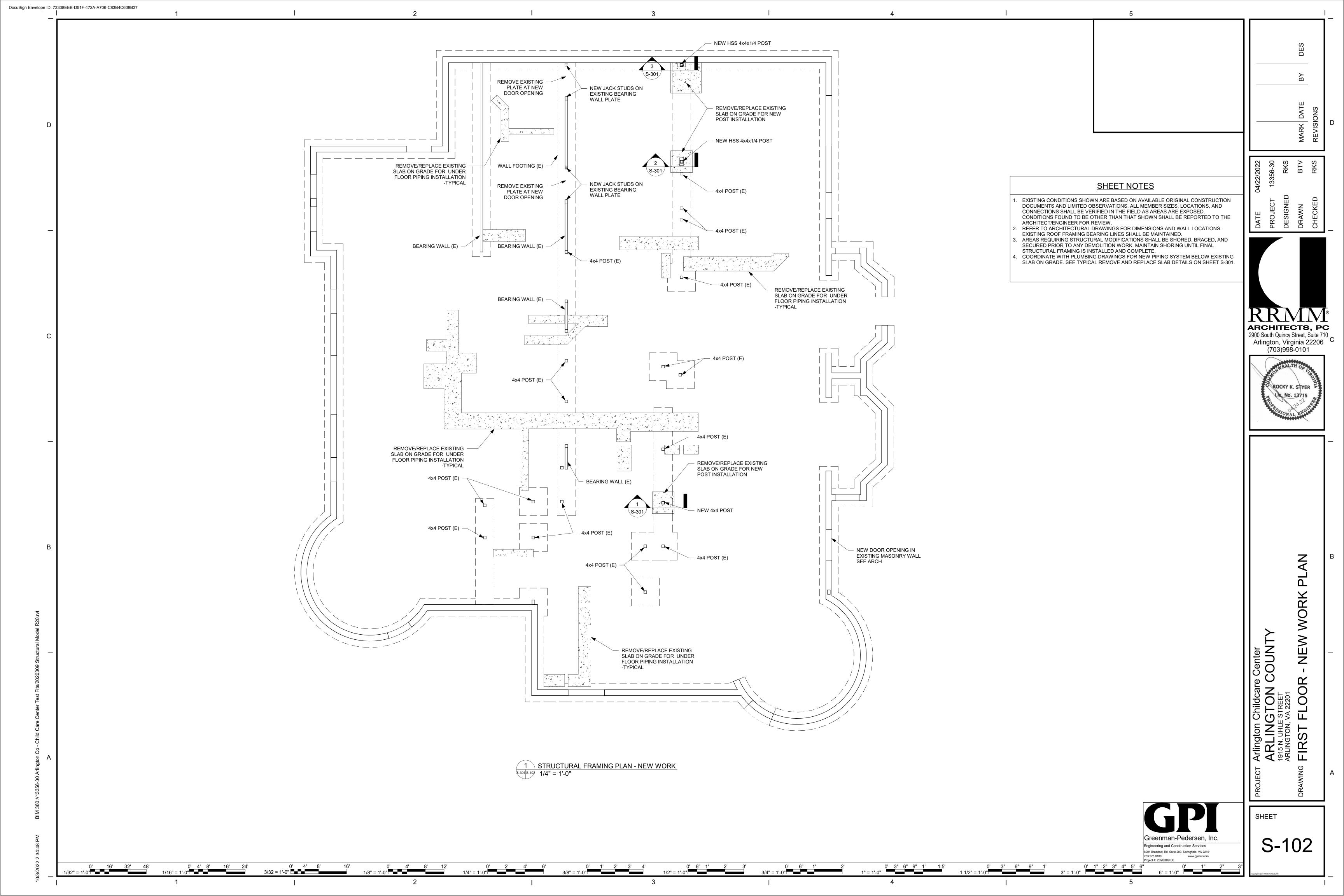
ADH	ADHESIVE ANCHOR	EL	ELEVATION	OPP	OPPOSITE
ADDL	ADDITIONAL	EQ	EQUAL	PL	PLATE
ACI	AMERICAN CONCRETE INSTITUTE	EXT	EXTERIOR	PLBG	PLUMING
AISC	AMERICAN INSTITUTE FOR	FOM	FACE OF MASONRY	REINF	REINFORCING (MENT)
	STEEL CONSTRUCTION	FIN FLR	FINISHED FLOOR	REQ'D	REQUIRED
ALT	ALTERNATE	FLR	FLOOR	REQ'MTS	REQUIREMENTS
AB	ANCHOR BOLT	FRMG	FRAMING	SECT	SECTION
ARCH	ARCHITECTURE	FTG	FOOTING	SOG	SLAB ON GRADE
ВМ	BEAM	GA	GAGE	SIM	SIMILAR
BRG	BEARING	GALV	GALVANIZED	Т	TOP
ВОТ	BOTTOM	HORIZ	HORIZONTAL	TS	TOP OF SLAB
CLR	CLEAR	INSUL	INSULATION	TYP	TYPICAL
COL	COLUMN	INT	INTERIOR	UON	UNLESS OTHERWISE NOTED
CMU	CONCRETE MASONRY UNIT	LLH	LONG LEG HORIZONTAL	VIF	VERIFY IN FIELD
CONT	CONTINUOUS	LLV	LONG LEG VERTICAL	WWF	WELDED WIRE FABRIC
DIA	DIAMETER	LB	POUND	w\	WITH
DIM	DIMENSION	MANUF	MANUFACTURER		
DWLS	DOWELS	MATL	MATERIAL		
DN	DOWN	MAX	MAXIMUM		
DWG	DRAWING	MECH	MECHANICAL		
(E)	EXISTING	MIN	MINIMUM		
EA	EACH	NTS	NOT TO SCALE		
EOS	EDGE OF SLAB	OC	ON CENTERS		
ELEC	ELECTRICAL	OPNG	OPENING	_	

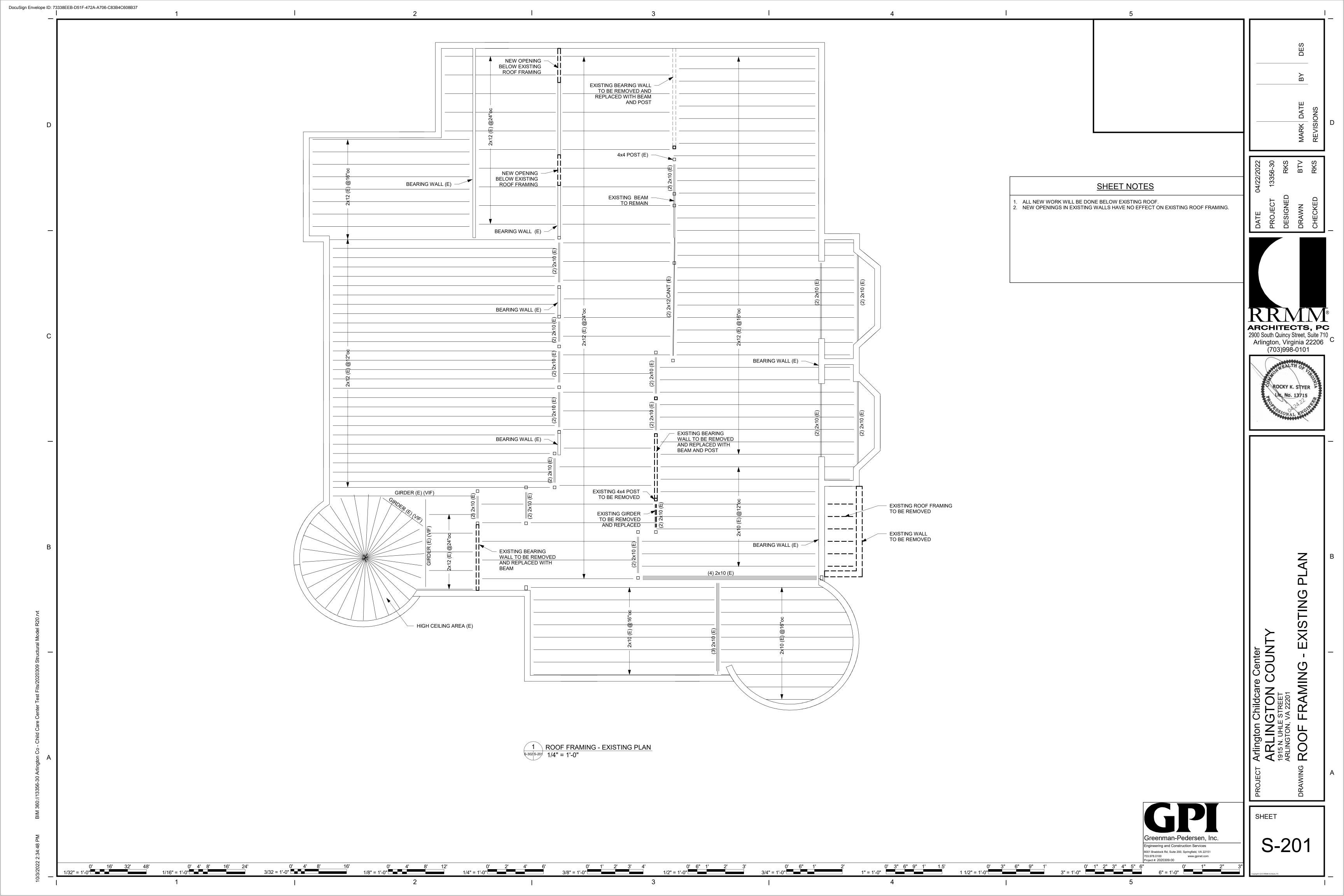
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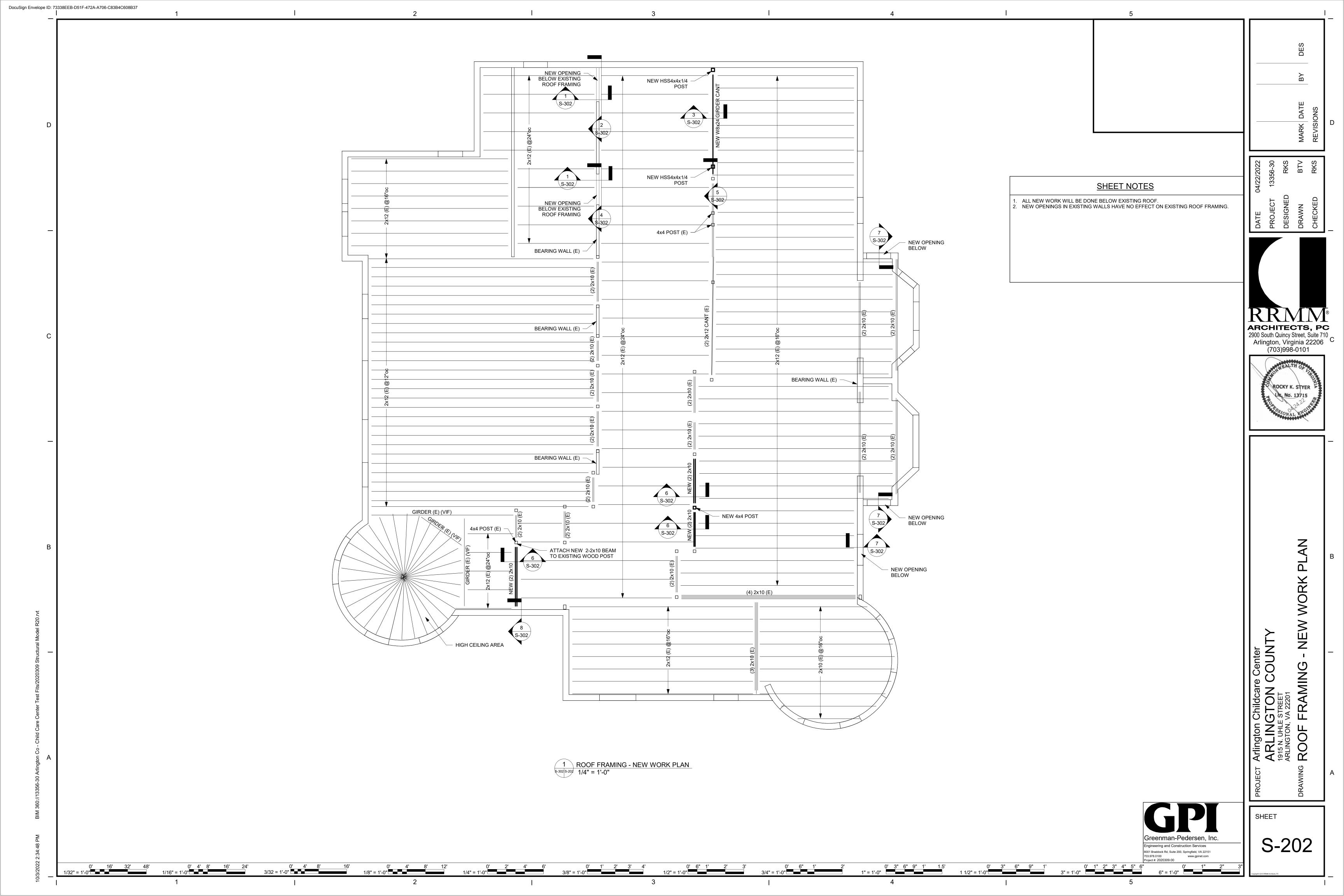
SHEET

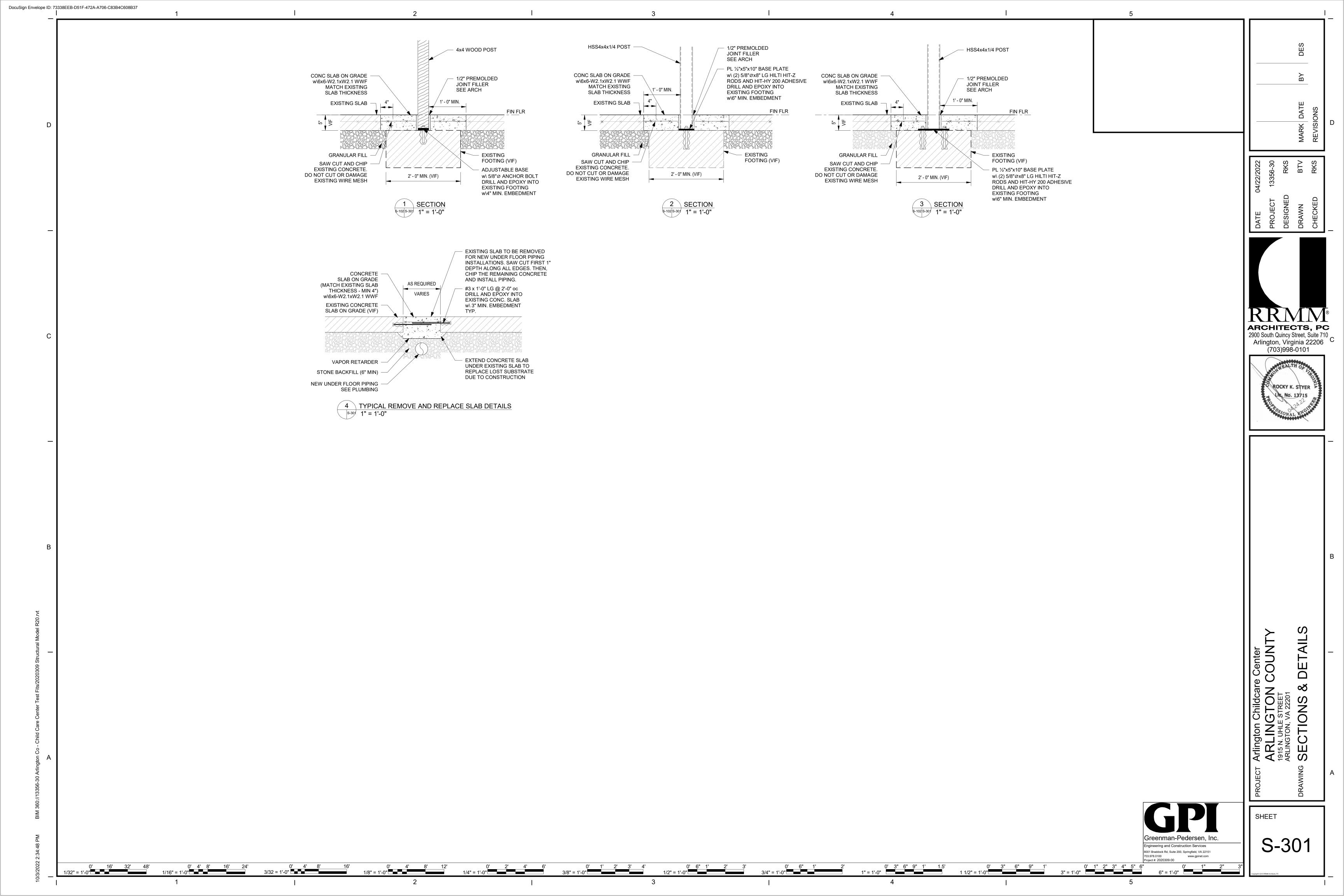
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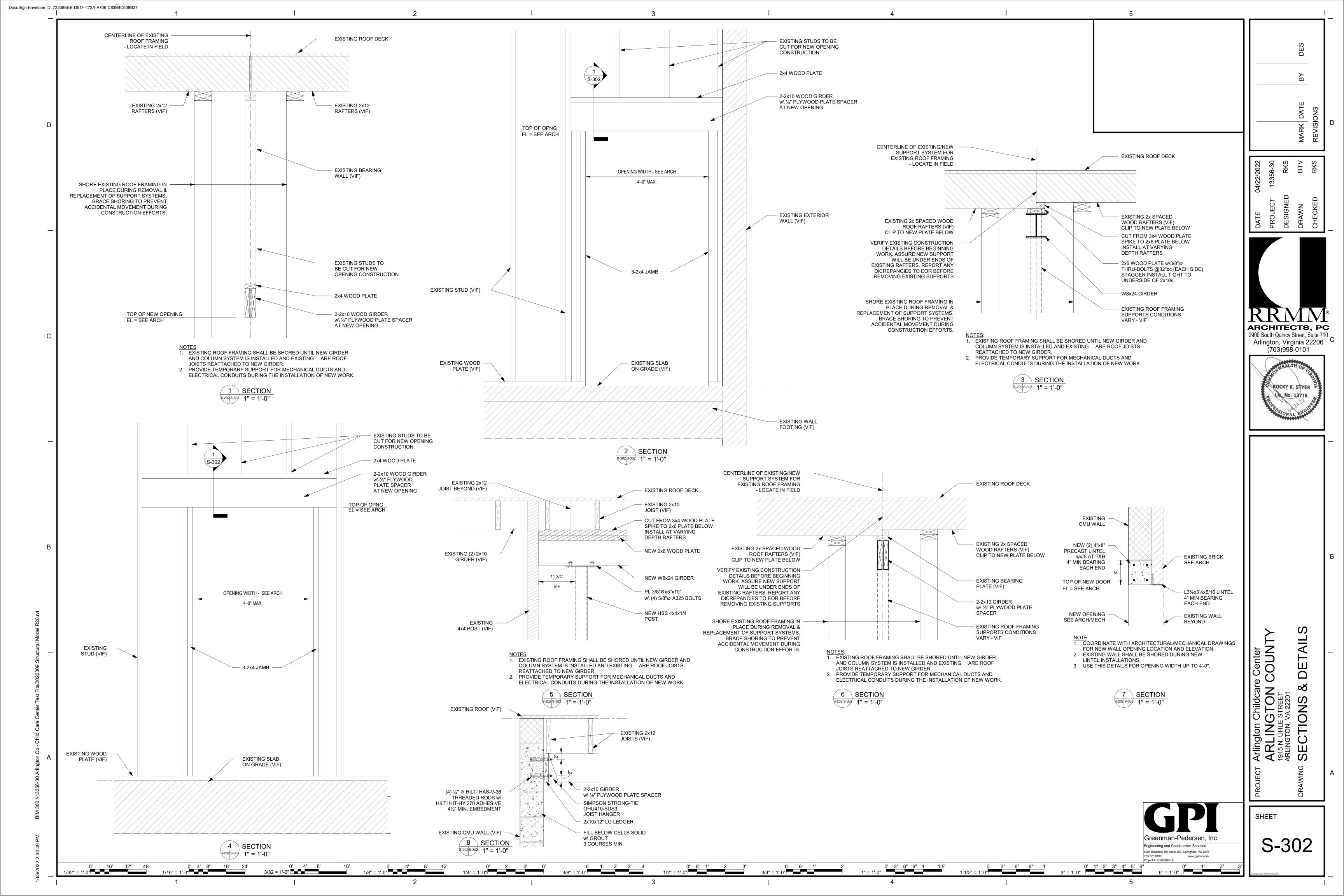










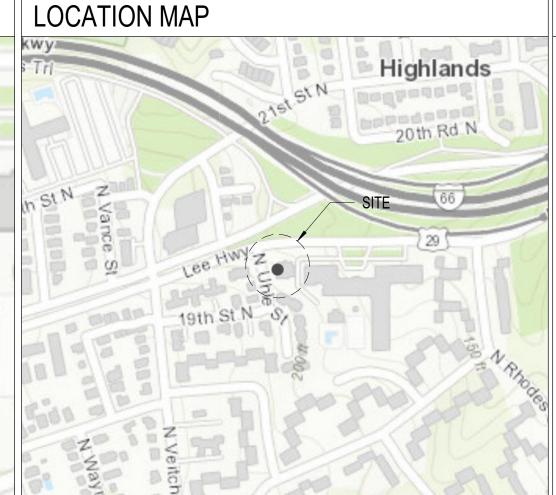


### BID SET APRIL 22, 2022 ARLINGTON COUNTY RRMM ARCHITECTS, PC

ARCHITECTURE / PLANNING / INTERIORS

2900 South Quincy Street, Suite 710 Arlington, VA 22206 (703) 998-0101

# **VICINITY MAP**



### **CONSULTANTS**

### **STRUCTURAL & MEP ENGINEERING**

GPI ENGINEERING 8001 BRADDOCK ROAD, SUITE 200 SPRINGFIELD, VA 22151 (703) 978-0100

### **OWNER**

ARLINGTON COUNTY, FACILITIES **DESIGN & CONSTRUCTION** 1400 N UHLE ST, SUITE 403 ARLINGTON, VA 22201 P: (703) 228-4430 F: (703) 228-3093

### PROJECT BASIC DESCRIPTION

THE ARLINGTON CHILDCARE FACILITY IS LOCATED AT 1915 NORTH UHLE STREET IN ARLINGTON, VIRGINIA. THE EXISTING BUILDING IS APPROXIMATELY 3,648 SQUARE FEET ON ONE FLOOR WITH WOOD FRAME STRUCTURE. THE EXTERIOR WALLS ARE WOOD FRAMING WITH BRICK VENEER. THE EXACT DATE OF CONSTRUCTION OF THE BUILDING IS UNKNOWN AND IT HAD MAJOR RENOVATION IN APPROXIMATELY 1990. THE INTERIOR WALLS ARE TYPICALLY METAL STUD PARTITIONS, CEILINGS ARE TYPICALLY ACT THROUGHOUT THE BUILDING.

THE DESIGN INTENT OF THIS PROJECT IS TO RECONFIGURE THE CHILDREN'S ROOMS AND BATHROOMS LAYOUT, AS SHOWN ON THE NEW PLAN, WINDOW REPLACEMENT, ADD NEW WINDOWS IN THE 4-5-YEAR OLD ROOM. ADDITIONALLY AHU-2 WILL BE RELOCATED AND AHU-3 WILL BE REMOVED AND REINSTALLED IN A NEW CLOSET CONSTRUCTED IN APPROXIMATELY THE SAME LOCATION.

### LEAD MATERIALS DISCLOSURE STATEMENT

AN INSPECTION TO IDENTIFY LEAD CONTAINING OR COATED BUILDING COMPONENTS HAS BEEN CONDUCTED AND CAN BE FOUND IN THE PROJECT SPECIFICATIONS. THIS REPORT IS PROVIDED FOR THE CONTRACTOR'S USE AND MAY NOT BE ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL VIRGINIA OCCUPATIONAL SAFETY AND HEALTH (VOSH) REGULATIONS AS THEY PERTAIN TO EMPLOYEE EXPOSURES TO LEAD. ALL LEAD AND LEAD-COATED BUILDING COMPONENTS SHALL BE RECYCLED TO THE EXTENT POSSIBLE

### ASBESTOS DISCLOSURE STATEMENT

NO ASBESTOS CONTAINING MATERIALS SHALL BE USED IN THIS PROJECT

AN ASBESTOS INSPECTION WAS PERFORMED AND ACM WAS FOUND GENERALLY IN THE AREA INDICATED. THE ASBESTOS INSPECTION REPORT IS INCLUDED AS AN APPENDIX TO THE PROJECT SPECIFICATIONS. THE OWNER SHALL SUBMIT AN APPLICATION FOR PERMIT TO HAVE THE ASBESTOS-CONTAINING MATERIALS ABATED BY A LICENSED ASBESTOS CONTRACTOR UNDER A SEPARATE CONTRACT USING APPROVED PROCEDURES PRIOR TO ISSUING A NOTICE TO PROCEED TO THE GENERAL CONTRACTOR. ANY ACM THAT IS TO REMAIN AND THE NEW NON-ASBESTOS CONTAINING MATERIAL SHALL BE LABELED ACCORDINGLY. THE ASBESTOS ABATEMENT WHERE ACM EXIST BUT WERE LEFT IN PLACE. THE GENERAL CONTRACTOR SHALL REVIEW AND CERTIFY THE LOCATIONS WHERE ACM WAS ABATED, AREAS WHERE ACM WAS ENCAPSULATED AND AREAS WHERE ACM WAS LEFT IN PLACE AS MARKED ON THE RECORD DRAWINGS AND WILL PROVIDE THE DRAWINGS TO THE ARCHITECT

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G-003	SPECIFICATIONS
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ARCHITECTU	RAL
A-001	ARCHITECTURAL GENERAL INFORMATION
A-002	ARCHITECTURAL GENERAL INFORMATION
A-003	PARTITION TYPE SCHEDULE AND DETAILS
AD101	FIRST FLOOR - DEMOLITION FLOOR PLAN
AD102	FIRST FLOOR - DEMOLITION REFLECTED CEILING PLAN
AD103	DEMO SECTION DETAIL
A-100	ARCHITECTURAL SITE PLAN
A-101	FIRST FLOOR - NEW WORK
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A-103	ROOF PLAN
A-201	BUILDING ELEVATIONS
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A-601	FINISH SCHEDULE, LEGEND AND NOTES
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A-701	FIRST FLOOR FINISH AND SIGNAGE PLAN

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PD101 P-101 P-201 P-501	VENT - NEW WORK			
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P-101 P-201 P-501 P-701  MECHANICAL M-001 M-002 MD101	VENT - NEW WORK  FIRST FLOOR PLAN WATER - NEW WORK  DETAILS & SCHEDULES  RISER DIAGRAMS  LEGENDS & ABBREVIATIONS  SPECIFICATIONS			
P-101 P-201 P-501 P-701  MECHANICAL M-001 M-002 MD101 M-101	VENT - NEW WORK  FIRST FLOOR PLAN WATER - NEW WORK  DETAILS & SCHEDULES  RISER DIAGRAMS  LEGENDS & ABBREVIATIONS  SPECIFICATIONS  FIRST FLOOR PLAN - DEMOLITION			
P-101 P-201 P-501	FIRST FLOOR PLAN WATER - NEW WORK DETAILS & SCHEDULES RISER DIAGRAMS  LEGENDS & ABBREVIATIONS SPECIFICATIONS FIRST FLOOR PLAN - DEMOLITION FIRST FLOOR PLAN - NEW WORK			

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SHEET

G-001

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- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2018 VUSBC, ARLINGTON COUNTY CODE CHAPTER 52 CHILD CARE CENTERS AND LOCAL CODES, LAWS, REGULATIONS, AND ORDINANCES.
- 2. THE BUILDING CODE AUTHORITY IS THE VIRGINIA DEPARTMENT OF GENERAL SERVICES (DGS), BUREAU OF CAPITAL OUTLAY MANAGEMENT (BCOM), DIVISION OF ENGINEERING AND BUILDINGS (DEB).
- 3. THE GENERAL CONTRACTOR SHALL COMPLY WITH THE 2018 VIRGINIA STATEWIDE FIRE PREVENTION CODE AND NFPA 241-2019. THE GENERAL CONTRACTOR SHALL MAINTAIN A COPY OF THE ABOVE DOCUMENTS AT THE SITE.

- 1. THE GENERAL CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT AND OWNER FOR CLARIFICATION OF ANY AMBIGUITY OR INCONSISTENCY WHICH HE MAY DISCOVER UPON EXAMINATION OF THE CONTRACT DOCUMENTS OR THE SITE AND EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
- 2. THE GENERAL CONTRACTOR, BY MAKING HIS BID, REPRESENTS THAT 1) HE HAS READ AND UNDERSTANDS THE DOCUMENTS AND HIS BID IS MADE IN ACCORDANCE THEREWITH, 2) HE REPRESENTS THAT HE HAS VISITED THE SITE, HAS FAMILIARIZED HIMSELF WITH THE SITE AND JOB CONDITIONS AND JURISDICTIONAL REQUIREMENTS UNDER WHICH THE WORK IS TO BE PERFORMED AND HAS CORRELATED HIS OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND 3) HIS BID IS BASED UPON THE MATERIALS, SYSTEMS, AND EQUIPMENT REQUIRED BY THE CONTRACT DOCUMENTS WITHOUT EXCEPTION.
- 3. THE GENERAL CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE TO MAKE AN APPOINTMENT TO VISIT THE SITE. FAILURE TO VISIT THE SITE WILL NOT RELIEVE THE GENERAL CONTRACTOR OF THE OBLIGATION TO FURNISH ALL MATERIAL AND LABOR NECESSARY TO CARRY OUT THE PROVISIONS OF THE CONTRACT DOCUMENTS AND TO COMPLETE THE WORK FOR THE CONSIDERATION SET FORTH IN HIS
- 4. THE OWNER'S REPRESENTATIVE IS CYNTHIA WILSON AND HER PHONE NUMBER IS (703) 228-4438.

### OWNER OCCUPANCY

1. THE BUILDING AND SITE WILL NOT BE OCCUPIED DURING CONSTRUCTION.

- THE WORK SITE MUST BE KEPT CLEAN OF CONSTRUCTION DEBRIS AND DISCARDED PACKAGING MATERIAL
- 2. THE CONTRACTOR SHALL ARRANGE FOR HIS OWN TRASH CONTAINERS AND THEIR REMOVAL. LOCATION OF THE CONTAINERS MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
- 3. TRASH SHALL BE DISPOSED OF IN A PROPER AND LEGAL MANNER
- 4. ALL WORK SHALL BE THOROUGHLY CLEANED AND POLISHED BEFORE FINAL INSPECTION.
- 5. CLEANING MUST BE APPROVED BY THE OWNER PRIOR TO FINAL ACCEPTANCE.

### MEASUREMENTS & EXISTING CONDITIONS

- DIMENSIONS ARE FROM FACE OF MASONRY OR FACE OF STUD PARTITION UNLESS NOTED OTHERWISE.
- 2. INFORMATION CONTAINED IN THESE DOCUMENTS IS BASED ON EXISTING DOCUMENTS AND FIELD MEASUREMENTS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND ALL MEASUREMENTS AT THE BUILDING AND SHALL BE RESPONSIBLE FOR CORRECTNESS OF SAME. WHERE CONFLICTS OCCUR BETWEEN THE DOCUMENTS AND THE EXISTING CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OWNER FOR RESOLUTION OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
- 3. THE HAZARDOUS MATERIAL SURVEY REPORT IS AVAILABLE FOR INFORMATIONAL PURPOSES ONLY. THE SCOPES OF WORK AS DESCRIBED IN THE REPORT ARE NOT PART OF THIS CONTRACT FOR CONSTRUCTION OR FOR THIS BUILDING PERMIT SUBMISSION. THE OWNER WILL HAVE ALL HAZARDOUS MATERIAL REMOVAL PERFORMED UNDER A SEPARATE CONTRACT WITH A QUALIFIED CONTRACTOR, UNDER A SEPARATE BUILDING PERMIT AS SUBMITTED AND APPROVED BY DEB OFFICIALS. SCOPE OF WORK PERTAINING TO THE REMOVAL OF HAZARDOUS MATERIALS WILL BE PERFORMED PRIOR TO THE COMMENCEMENT OF ANY WORK ASSOCIATED WITH THIS PROJECT PERMIT.

### <u>012500 – SUBSTITUTION PROCEDURES</u>

- 1. MANUFACTURER'S, STYLES AND MODEL NUMBERS OF PRODUCTS LISTED IN THESE SPECIFICATIONS AND DRAWINGS ARE THE "BASIS OF DESIGN" AND SHOULD BE SUPPLIED AS WRITTEN TO THE GREATEST EXTENT POSSIBLE
- 2. DEFINITIONS:
  - SUBSTITUTIONS: CHANGES IN PRODUCTS, MATERIALS, EQUIPMENT, AND METHODS OF CONSTRUCTION FROM THOSE REQUIRED BY THE CONTRACT DOCUMENTS.
  - SUBSTITUTIONS FOR CAUSE: CHANGES PROPOSED BY CONTRACTOR THAT ARE REQUIRED DUE TO CHANGED PROJECT CONDITIONS, SUCH AS UNAVAILABILITY OF PRODUCT, REGULATORY CHANGES, OR UNAVAILABILITY OF REQUIRED WARRANTY
  - SUBSTITUTIONS FOR CONVENIENCE: CHANGES PROPOSED BY CONTRACTOR OR OWNER THAT ARE NOT REQUIRED TO MEET OTHER PROJECT REQUIREMENTS BUT MAY OFFER ADVANTAGE TO CONTRACTOR OR OWNER.
- 3. SUBSTITUTIONS FOR CAUSE OR CONVENIENCE: THE OWNER WILL CONSIDER THE CONTRACTOR'S REQUEST FOR SUBSTITUTION WHEN THE FOLLOWING CONDITIONS ARE SATISFIED. IF THE FOLLOWING CONDITIONS ARE NOT SATISFIED, THE OWNER WILL RETURN REQUESTS WITHOUT ACTION, EXCEPT TO RECORD NONCOMPLIANCE WITH THESE REQUIREMENTS:
  - REQUESTED SUBSTITUTION IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND WILL PRODUCE INDICATED RESULTS. THE PROPOSED SUBSTITUTION SHALL BE EQUAL OR BETTER IN ALL REGARDS TO THE LISTED "BASIS OF DESIGN".
  - SUBSTITUTION REQUEST IS FULLY DOCUMENTED AND PROPERLY SUBMITTED.
  - REQUESTED SUBSTITUTION WILL NOT ADVERSELY AFFECT CONTRACTOR'S CONSTRUCTION SCHEDULE.
  - REQUESTED SUBSTITUTION HAS RECEIVED NECESSARY APPROVALS OF AUTHORITIES HAVING JURISDICTION.
  - REQUESTED SUBSTITUTION IS COMPATIBLE WITH OTHER PORTIONS OF THE WORK.
  - REQUESTED SUBSTITUTION HAS BEEN COORDINATED WITH OTHER PORTIONS OF THE WORK.
  - REQUESTED SUBSTITUTION PROVIDES SPECIFIED WARRANTY.
  - IF REQUESTED SUBSTITUTION INVOLVES MORE THAN ONE CONTRACTOR, REQUESTED SUBSTITUTION HAS BEEN COORDINATED WITH OTHER PORTIONS OF THE WORK, IS UNIFORM AND CONSISTENT, IS COMPATIBLE WITH OTHER PRODUCTS, AND IS ACCEPTABLE TO ALL CONTRACTORS INVOLVED.

### <u>013300 – SUB</u>MITTAL PROCEDURES

- 1. SUBMIT SHOP DRAWINGS AND PRODUCT DATA TO THE ARCHITECT FOR THE ITEMS LISTED BELOW. SUBMIT SAMPLES ONLY FOR ITEMS BELOW
- UNIT MASONRY, FLUSH WOOD DOORS\*, HOLLOW METAL DOORS, HOLLOW METAL FRAMES, TILE CARPETING\*, RESILIENT BASE\*, ACOUSTICAL TILE CEILINGS\*, RESILIENT TILE (LVT) FLOORING\*, INTERIOR PAINTING\*, SOLID SURFACING COUNTERTOPS\*, INTERIOR ARCHITECTURAL WOODWORK\*, CERAMIC TILE\*, COUNTER SUPPORT BRACKETS, PLUMBING FIXTURES, APPLIANCES, AIR BALANCE REPORT, MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, LIGHT FIXTURES\*, STOREFRONT AND GLASS DOORS\*, WINDOWS\*.
- 2. SHOP DRAWINGS, PRODUCT DATA, WARRANTIES, OPERATION AND MAINTENANCE MANUALS, QUALIFICATIONS, AND OTHER REQUIRED APPLICABLE INFORMATION FOR A SINGLE SPECIFICATION SECTION SHALL BE CONSOLIDATED INTO ONE SUBMITTAL OR AS FEW SUBMITTALS
- 3. SHOP DRAWINGS SHALL BE SUFFICIENT, IN SCALE AND DETAIL, TO INDICATE MATERIALS, METHODS OF FABRICATION, JOINTS, AND GENERAL CONFIGURATION.
- 4. WORK SHALL NOT COMMENCE ON EACH ITEM UNTIL THE OWNER HAS APPROVED THE SUBMITTAL.
- 5. SUBMITTAL NAMING/NUMBERING CONVENTION

A. THE FOLLOWING SUBMITTAL NAMING AND NUMBERING CONVENTION SHALL BE FOLLOWED FOR ALL CONTRACTOR SUBMITTALS. USING SECTION 033000. "CAST-IN-PLACE CONCRETE" AS THE EXAMPLE. THE SUBMITTAL NUMBER. 033000-01-01 WOULD BE DEFINED AS FOLLOWS:

### 6-DIGIT SPEC. SECTION # 2-DIGIT SEQUENTIAL # 2-DIGIT ITERATION

01 B. THE FIRST SIX-DIGIT FIELD REFERS TO THE SPECIFICATION SECTION FOR THE PRODUCT, IN THIS CASE, 'CONCRETE'. THE SECOND 2-DIGIT FIELD IS TO INDICATE THE SEQUENTIAL SUBMITTAL #. IN THIS PARTICULAR EXAMPLE, THE SUBMITTAL IS FOR THE FIRST SUBMITTAL OF DIVISION 03300 TO BE TRANSMITTED. THE FINAL 2-DIGIT ITERATION FIELD IS TO IDENTIFY SUCCESSIVE REVIEWS OF THE SAME SUBMITTAL, I.E. 01 = FIRST SUBMITTAL, 02 = SECOND, ETC. CONTRACTOR SUBMITTALS ARE TO FOLLOW THIS NAMING CONVENTION FOR SUBMITTALS CALLED FOR BY THE INDIVIDUAL SPECIFICATION SECTIONS. THE SPECIFICATION SUBMITTAL TYPES ARE DEFINED IN THE FOLLOWING PARAGRAPHS.

### <u>015000 – TEMPORARY FACILITIES AND CONTROLS</u>

- 1. THE OWNER WILL PROVIDE UTILITIES AVAILABLE FROM THE EXISTING BUILDING FOR USE BY THE CONTRACTOR
- 2. THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES FOR THE WORKMEN AND SHALL MAKE ADDITIONAL PROVISIONS IF REQUIRED TO ACCOMPLISH THE WORK.
- 3. AT THE COMPLETION OF CONSTRUCTION AND BEFORE REQUEST FOR FINAL PAYMENT, ALL EXISTING FACILITIES USED BY THE CONTRACTOR SHALL BE CLEANED AND RESTORED TO ORIGINAL CONDITION TO THE OWNER'S SATISFACTION.
- 4. THE CONTRACTOR WILL COMPLY WITH THE OWNER'S AND LOCAL JURISDICTION'S REQUIREMENTS FOR ERECTION OF NON-COMBUSTIBLE SAFETY BARRICADES FOR PROTECTION OF PEOPLE AND PROPERTY AT AND AROUND ALL WORK AREAS. PAINT WITH APPROPRIATE COLORS, GRAPHICS, AND WARNING SIGNS TO INFORM PERSONNEL AND THE PUBLIC OF THE HAZARD BEING PROTECTED AGAINST
- 5. THE CONTRACTOR MUST MAINTAIN ACCESS TO ALL EXITS AND MAINTAIN REQUIRED EGRESS PASSAGE WIDTHS THROUGHOUT THE DEMOLITION AND CONSTRUCTION PERIOD. THE EGRESS PASSAGE MAY NOT BE USED AS A PATHWAY TO TRANSPORT MATERIALS TO AND FROM THE AREA OF WORK WHILE THE BUILDING IS OCCUPIED.
- 6. CONTRACTOR SHALL COORDINATE BUILDING ACCESS, NECESSARY TO PERFORM THE WORK, WITH THE OWNER'S REPRESENTATIVE. 7. CONTRACTOR SHALL PROTECT THE SPACE AND EQUIPMENT THAT IS OUTSIDE OF THE SPECIFIC AREA OF WORK FROM DAMAGE. SHOULD ANY DAMAGE OCCUR, CONTRACTOR SHALL REPAIR TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST TO THE OWNER
- 8. ALL MATERIALS AND PRODUCTS ARE TO BE MANUFACTURED, ASSEMBLED, AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, REQUIREMENTS, AND SHOP DRAWINGS
- 9. CONTRACTOR SHALL POST A FIRE WATCH COMPLYING WITH CHAPTER 26 OF THE VIRGINIA STATEWIDE FIRE PREVENTION CODE FOR ANY WELDING AND OTHER HOT WORK. THE FIRE WATCH SHALL EXTEND A MINIMUM OF TWO HOURS AFTER THE WELDING AND/OR HOT WORK IS

### 017329 - CUTTING & PATCHING

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, FITTING, AND PATCHING THAT MAY BE REQUIRED TO COMPLETE THE WORK AND MAKE ITS SEVERAL PARTS FIT TOGETHER TO ACHIEVE THE PROFESSIONAL QUALITY OF NEW WORK
- 2. WHERE EXISTING CONSTRUCTION IS DISTURBED, THE AFFECTED AREA SHALL BE REPLACED AND REPAIRED WITH MATCHING MATERIALS AND FINISHES AND BLENDED WITH EXISTING WORK.
- 3. WHERE PAINT CANNOT BE TOUCHED UP TO MATCH, REPAINT ENTIRE SURFACE.

### <u>024119 – SELECTIVE DEMOLITION</u>

- 1. DEMOLITION INCLUDES CONTROLLED DESTRUCTION OF EXISTING CONSTRUCTION AND THE REMOVAL AND DISPOSAL OF DEMOLISHED MATERIALS AS SHOWN ON THE DRAWINGS AND/OR INCLUDED IN THESE NOTES.
- 2. DEMOLITION SHALL BE PERFORMED IN SECTIONS SMALL ENOUGH SO AS NOT TO ENDANGER ANY ADJACENT MATERIALS OR FACILITIES TO
- 3. PROVIDE ADEQUATE SHORING, BRACING, AND PROTECTION TO PREVENT MOVEMENT, SETTLEMENT, COLLAPSE, OR DAMAGE TO EXISTING MATERIALS OR FACILITIES WHICH ARE TO REMAIN.
- 4. CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR REVIEW AND ACCEPTANCE, PRIOR TO BEGINNING THE WORK, COMPLETE DETAILS OF SHORING PROCEDURES SIGNED BY A REGISTERED PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF VIRGINIA.
- 5. PROMPTLY REPAIR ALL DAMAGES CAUSED BY THE DEMOLITION TO ADJACENT FACILITIES OR MATERIALS AT NO COST TO THE OWNER.

### <u>033000 – CAST IN PLACE CONCRETE</u>

<u>051200 – STRUCTURAL STEEL FRAMING</u>

1. SEE SPECIFICATIONS AND NOTES ON THE S-SERIES DRAWINGS

1. SEE SPECIFICATIONS AND NOTES IN THE S-SERIES DRAWINGS

1. STEEL FRAMING AND SUPPORTS FOR COUNTERTOPS SHALL BE 3" X 3" X 1/4" STEEL ANGLE BOLTED TO WALL BLOCKING.

1. ALL WOOD BLOCKING AND GROUNDS USED WITHIN WALLS SHALL BE FIRE RETARDANT TREATED.

- <u>064023 INTERIOR ARCHITECTURAL WOODWORK</u>
- 1. PROVIDE SHOP DRAWINGS SHOWING DIMENSIONS AND DETAILS, INCLUDING ALL JOINTS AND CONNECTIONS
- 2. INSTALLATION: INSTALL ARCHITECTURAL WOODWORK PLUMB, LEVEL, TRUE, AND STRAIGHT WITH NO DISTORTIONS.
- 3. SHIM AS REQUIRED USING CONCEALED SHIMS. INSTALL TO A TOLERANCE OF 1/16" IN 8'-0" FOR PLUMB AND LEVEL. 4. ANCHOR WOODWORK TO METAL WALL STUDS. SECURE TO GROUNDS WITH COUNTERSUNK CONCEALED FASTENERS AND BLIND NAILING AS
- REQUIRED FOR A COMPLETE INSTALLATION. 5. SCRIBE WORK TO FIT ADJOINING SURFACES. WOODWORK SHALL BE ACCURATELY AND NEATLY FITTED TOGETHER BY SKILLED FINISH CARPENTERS.
- 6. NEATLY FIT ALL HARDWARE.

### 079100 - PREFORMED JOINT SEALS

- 1. PROVIDE PREFORMED, SILICONE SEALANT IN SIZES TO FIT JOINT WIDTHS INDICATED. 123 SICONE SEAL, MANUFACTURED BY DOW CHEMICAL COMPANY OR APPROVED EQUAL
- 2. COLOR TO BE SELECTED BY ARCHITECT AND BUILDING OWNER.

### <u>079200 – JOINT SEALANTS</u>

- 1. PROVIDE JOINT SEALANTS, BACKINGS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY SEALANT MANUFACTURER.
- 2. METAL-TO-METAL AND GLASS-TO-METAL JOINTS A) PROVIDE SINGLE-COMPONENT, NON-SAG SILICONE SEALANT DOWSIL 795 SILICONE BUILDING SEALANT, MANUFACTURED BY DOW CHEMICAL COMPANY OR APPROVED EQUAL.
- B) COLOR TO BE SELECTED BY ARCHITECT AND BUILDING OWNER
- 3. METAL-TO-CONCRETE JOINTS
- A) PROVIDE SEALANT DOWSIL 756 SILICONE BUILDING SEALANT, MANUFACTURED BY DOW CHEMICAL COMPANY OR PPROVED EQUAL. B) COLOR TO BE SELECTED BY ARCHITECT AND BUILDING OWNER
- 4. PROVIDE JOINT PRIMER OF TYPE RECOMMENDED BY SEALANT MANUFACTURER FOR THE SPECIFIC JOINT SURFACE AND CONDITION. 5. PROVIDE BACKER ROD/JOINT FILLER BI-CELLULAR NON-GASSING EXPANDED POLYETHYLENE. SOF ROD (NOMACO, INC); EXPAND-O-FOAM
- (WILLIAMS PRODUCTS, INC); SONOFOAM BACKER-ROD (SONNEBORN-CONTECH).

### 081113 - HOLLOW METAL DOORS AND FRAMES

- 1. PROVIDE HOLLOW METAL DOORS AND FRAMES OF THE SIZE SHOWN ON THE DRAWINGS
- 2. ALL DOORS AND FRAMES TO BE MANUFACTURED OF COMMERCIAL QUALITY, STRETCHER LEVELED FLATNESS COLD ROLLED STEEL PER A.S.T.M. A366 AND A568 GENERAL REQUIREMENTS OR GALVANIZED STEEL SHEETS SHALL BE AS PER A.S.T.M. A924 OR A653 HOT DIP GALVANIZED TO A60 MINIMUM COATING WEIGHT STANDARD. INTERNAL REINFORCING MAY BE MANUFACTURED OF HOT ROLLED PICKLED AND OILED STEEL PER A.S.T.M. A569.
- 3. EXTERIOR DOORS SHALL BE MINIMUM 16-GAUGE AND TO BE GALVANIZED (A60), STEEL REINFORCED CORE WITH POLYURETHANE CORE PERMANENTLY BONDED TO THE INSIDE OF EACH FACE SHEET PROVIDING RIGIDITY. INSULATING AND SOUND DEADENING PROPERTIES TO THE
- 4. INTERIOR DOORS SHALL BE MINIMUM 18-GAUGE.
- 5. ALL DOORS SHALL BE BONDERIZED AND FINISHED AS STANDARD WITH ONE COAT OF BAKED-ON PRIME PAINT FOR FIELD PAINT. SEE FINISH SCHEDULE AND FINISH LEGEND.
- 6. EXTERIOR FRAMES SHALL BE MINIMUM 14-GAUGE AND TO BE GALVANIZED (A60) WITH ENERGY EEFICIENT THERMALLY BROKEN, WELDED
- CONSTRUCTION. 7. ALL FRAMES SHALL BE BONDERIZED AND FINISHED AS STANDARD WITH ONE COAT OF BAKED-ON PRIME PAINT FOR FIELD PAINT.
- 8. ALL DOORS AND FRAMES SHALL BE MANUFACTURED BY CURRIES COMPANY. DOORS AND FRAMES MANUFACTURED BY CECO CORPORATION, REPUBLIC STEEL PRODUCTS AND STEELCRAFT ARE ACCEPTABLE BY SUMITTING COMPLIANCE TEST DATA INFORMATION CERTIFYING PRODUCTS AS EQUAL TO CURRIES PERFORMANCE STANADARDS.

### <u>081416 – FLUSH WOOD DOORS AND 081119 – HOLLOW METAL FRAMES</u>

- 1. STAINED WOOD DOORS SHALL BE FLUSH, SOLID-CORE WITH HARDWOOD FACING TO MATCH EXISTING IN SPECIES AND
- 2. INSTALL DOORS AND FRAMES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND CONFORMING TO AWI REQUIREMENTS FOR FIT TOLERANCES.
- 3. DOORS SHALL SWING FREELY, FREE FROM RATTLING WHEN IN LATCH POSITION, AND FREE FROM HINGE BINDING. 4. PRE-MACHINE DOORS FOR FINISH HARDWARE, COMPLYING WITH HARDWARE TEMPLATES FURNISHED BY HARDWARE
- 5. HOLLOW METAL DOOR FRAMES SHALL BE FULL WELD TYPE, 16-GAUGE, ZINC-COATED STEEL WITH MITERED CORNERS AND CORNER TABS TO ENSURE ALIGNMENT OF THE PIECES.
- 6. FOR DOOR FRAMES, PROVIDE 10-GAUGE REINFORCING FOR MORTISED HINGES, STRIKE PLATE, AND OTHER SPECIFIED HARDWARE. PROVIDE JAMB ANCHORS APPROPRIATE FOR METAL STUD ASSEMBLIES AND ACCOMMODATION FOR 3
- 7. PROVIDE FIRE RATED DOORS AND FRAMES AT LOCATIONS INDICATED IN THE CONTRACT DRAWINGS.

### <u>084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONT</u>

- 1. PROVIDE ALUMINUM FRAMED STOREFRONT ENTRY DOOR WITH SIDELITE OF THE SIZE SHOWN ON THE DRAWINGS. 2. SYSTEM SHALL BE KAWNEER 500T WIDE STILE THERMAL ENTRANCE WITH A TRIFAB VG 451T GLASS: CENTER PLANE
- 2"X4-1/2" FRAMING OR APPROVED EQUAL. PROVIDE TEMPERED GLASS. 3. 1" INSULATED GLASS UNIT
- 4. ADA COMPLIANT BOTTOM RAIL
- 5. DOOR HARDWARE FURNISHED BY MANUFACTURER
- 6. ALUMINUM FRAME COLOR TO MATCH BUILDING EXISTING STOREFRONT

### <u>085113 – ALUMINUM WINDOWS</u>

- 1. PROVIDE ALUMINUM FRAMED WINDOWS OF THE SIZE SHOWN ON THE DRAWINGS 2. WINDOWS SHALL BE THERMAL WINDOWS, THERMAL SERIES 500H SINGLE HUNG OR APPROVED EQUAL
- 3. FINISH AAMA 2604 TIER 1
- 4. LOW E & ARGON FILLED INSULATED GLASS
- 5. PROVIDE INSECT SCREEN

### <u>087100 – DOOR HARDWARE</u> DOOR HARDWARE SHALL BE LEVER ADA COMPLIANT

- 2. ALL DOORS SHALL HAVE KEY LOCKS PROVIDED
- 3. HARDWARE FINISH SHALL BE BRUSHED NICKEL UNLESS OTHERWISE NOTED
- 4. A COMPLETE SET OF HARDWARE SHALL BE PROVIDED FOR EACH DOOR 5. SEE DOOR HARDWARE NOTES ON WORKING DRAWINGS
- SET: 1 EXTERIOR CLASSROOM/CORRIDOR/ENTRY DOORS: 001A, 005A, 013B

- 1 PIVOT (SET) 147626RF 1 INTERMEDIATE PIVOT M19 626RF
- 1 EXIT DEVICE ED4200 X K157ET X LESS PULL X AP X M52 X 630RU M110 X CMK X MK 1 PULL RM201 X TYPE 12XHD MOUNTING US32D RO
- 1 CLOSER DC6210 A3 X M77 689RU
- 1 MOUNTING PLATE 597F58689RU
- 1 OVERHEAD STOP 1-X36 X 90 DEG 652RF
- 1 THRESHOLD 170 A X DOW X MS & ES25 PE
- 1 DOOR BOTTOM SEAL 345 AV X DOW PE
- 1 DRIP STRIP 346 C X DOW + 4" PE
- GASKETING FURNISHED BY FRAME MANUFACTURER

### SET: 2 – CORRIDOR - DOOR: 001B

- 3 HINGE T4A3786 4-1/2" X 4-1/2" US26D MK
- 1 EXIT DEVICE ED5200 X A910ET X AP X M52 X M110 X CMK X MK 630RU
- 1 CLOSER DC5230 689RU
- 1 KICKPLATE K1050 8" X 2" LDW 4BE CSKUS32D RO 1 WALL STOP 406 US32D RO 3 SILENCER 608-RKW RO
- **SET: 3** OFFICE AND TEACHER'S LOUNGE DOORS: 002A, 003A 3 HINGE TA2714 4-1/2" X 4-1/2" US26D MK
- 1 CLASSROOM LOCKSET CL3855 AZD X AP X SA118 X CMK X MK626RU
- 1 KICKPLATE K1050 8" X 2" LDW 4BE CSKUS32D RO
- 1 WALL STOP 406 US32D RO
- 1 OVERHEAD STOP 5-X36 X 90 DEG 652RF

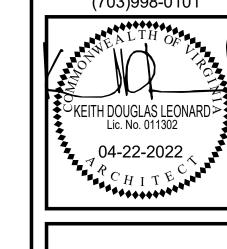
- 3 HINGE T4A3786 4-1/2" X 4-1/2" US26D MK
- 1 PRIVACY SET & INDICATOR ML2060 ASA X EMB X V21 626RU 1 CLOSER DC5230 689RU
- 1 KICKPLATE K1050 8" X 2" LDW 4BE CSKUS32D RO
- 1 MOP PLATE K1050 4" X 1" LDW 4BE CSKUS32D RO 1 WALL STOP 406 US32D RO
- 1 DOOR STOP 481 US26D RO

### **SET: 5** – MECHANICAL ROOM - DOORS 008A, 0012A, 021A

- 3 HINGE TA2714 4-1/2" X 4-1/2" NRP US26D MK 1 STOREROOM LOCKSET CL3857 AZD X AP X SA118 X CMK X MK626RU
- (FOR DOOR 008A ONLY)
- 1 CLOSER/STOP DC6210 A11 689RU
- 1 WALL STOP 406 US32D RO (FOR DOOR 008A ONLY)
- 1 THRESHOLD 151 A X DOW X MS & ES25 PE 1 GASKETING (SET) S88 BL X DOW X DOH

1 1/2" = 1'-0"

ARCHITECTS, PC 2900 South Quincy Street, Suite 710 Arlington, Virginia 22206 C (703)998-0101



N CHILDCARE CENTER TIONS ARLINGTON (
ARLINGTON (
1915 N. UHLE STRE)
ARLINGTON, VA 222

G-002

(FOR DOOR 006A ONLY) 3 SILENCER 608-RKW RO

3 SILENCER 608-RKW RO **SET: 4** – STAFF TOILET - DOORS: 004A, 006A

1 CLOSER DC6210 A3 689RU 1 KICKPLATE K1050 8" X 2" LDW 4BE CSK US32D RO

1 AUTOMATIC DOOR BOTTOM 420 APKL X DOW PE

SHEET

6" = 1'-0"

2 WIRE PULL 856US26D RO BALANCE OF HARDWARE FURNISHED BY DOOR MANUFACTURER

**SET: 7** – CLASSROOM - DOORS: 010A, 013A, 015A, 019A

3 HINGE TA2714 4-1/2" X 4-1/2" US26D MK 1 CLASSROOM LOCKSET CL3855 AZD X AP X SA118 X CMK X MK 626RU 1 KICKPLATE K1050 8" X 2" LDW 4BE CSK US32D RO 1 WALL STOP 406US32D RO 1 OVERHEAD STOP5-X36 X 90 DEG 652RF

**SET: 8** – EXTERIOR CLASSROOM - DOOR: 010B

(FOR DOOR 010A AND 019A ONLY)

3 SILENCER 608-RKW RO

1 PIVOT (SET) 147626RF 1 INTERMEDIATE PIVOT M19 626RF 1 EXIT DEVICE ED4200 X K157ET X LESS PULL X AP X M52 X 630RU W048 X M110 X CMK X MK 1 PULL RM201 X TYPE 12XHD MOUNTING US32D RO 1 CLOSER DC6210 A3 X M77 689RU 1 MOUNTING PLATE 597F58689RU 1 OVERHEAD STOP1-X36 X 90 DEG 652RF 1 THRESHOLD 170 A X DOW X MS & ES25 PE 1 DOOR BOTTOM SEAL345 AV X DOW PE 1 DRIP STRIP 346 C X DOW + 4" PE

**SET: 9** – CLASSROOM TOILET - DOORS: 011A, 014A, 016A

GASKETING FURNISHED BY FRAME MANUFACTURER

1 DOOR POSITION SWITCH DPS-M-BK SU

3 HINGE TA2714 4-1/2" X 4-1/2" US26D MK 1 PASSAGE SET CL3810 AZD X SA118 626RU 1 MOP PLATE K1050 4" X 1" LDW 4BE CSK US32D RO 1 WALL STOP 406US32D RO 1 OVERHEAD STOP5-X36 X 90 DEG 652RF (FOR DOOR 011A ONLY) 3 SILENCER 608-RKW RO 1 FINGER GUARD 2248A X 76" NG

**SET: 10** – CLOSET - DOOR: 013C

3 HINGE TA2714 4-1/2" X 4-1/2" US26D MK 1 PASSAGE SET CL3810 AZD X SA118 626RU 1 OVERHEAD STOP10-X36 X 90 DEG 652RF 3 SILENCER 608-RKW RO 1 FINGER GUARD 2248A X 76" NG

SET: 11 - EXTERIOR CLASSROOM - DOORS: 015B, 019B

1 CONTINUOUS HINGE CFM81HD1 PE 1 EXIT DEVICE ED5200 X A957ET X AP X M52 X M110 X CMK X MK 630RU I CLOSER DC6210 A13 689RU 1 KICKPLATE K1050 8" X 2" LDW 4BE CSK US32D RO 1 OVERHEAD STOP9-X36 X 90 DEG 652RF 1 THRESHOLD 171 A X DOW X MS & ES25 PE 1 GASKETING (SET) 316 AS X DOW X DOH PE 1 DOOR BOTTOM SEAL345 AV X DOW PE 1 DRIP STRIP 346 C X DOW + 4" PE 1 DOOR POSITION SWITCH DPS-M-BK SU

**SET: 12** – BYPASS DOOR - DOOR: 017A

1 BYPASS DOOR HARDWARE (SET) HBP200A X 5'4" PE (TRACK TO BE CUT TO SIZE IN THE FIELD) 2 FLUSH PULL 95R US26D RO

**SET: 13** – LAUNDRY - DOOR: 018A

3 HINGE T4A3786 4-1/2" X 4-1/2" US26D MK 1 STOREROOM LOCKSET CL3857 AZD X AP X SA118 X CMK X MK 626RU 1 CLOSER DC6200 689RU

1 KICKPLATE K1050 8" X 2" LDW 4BE CSK US32D RO 1 MOP PLATE K1050 4" X 1" LDW 4BE CSK US32D RO 1 WALL STOP 406US32D RO

1 GASKETING (SET) S88 BL X DOW X DOH PE

**SET: 14** – UTILITY - DOOR: 020A

3 HINGE TA2714 4-1/2" X 4-1/2" NRP US26D MK 1 STOREROOM LOCKSET CL3857 AZD X AP X SA118 X CMK X MK 626RU

1 CLOSER/STOP DC6210 A11 689RU 1 KICKPLATE K1050 8" X 2" LDW 4BE CSK US32D RO

3 SILENCER 608-RKW RO

1/32" = 1'-0"

089116 - OPPERABLE WALL LOUVERS AND 089119 - FIXED LOUVERS

1. PROVIDE OPPERABLE AND FIXED LOUVERS THAT ARE SIZED AS SHOWN IN THE DRAWINGS

2. SEE SPECIFICATIONS AND NOTES ON THE M-SERIES DRAWINGS

092900 - GYPSUM BOARD AND FRAMING

1. SEE PARTITION TYPES ON THE CONTRACT DRAWINGS.

2. INSTALL PLUMB AND LEVEL WITH DEVIATION NO MORE THAN 1/8" OVER ANY 8-FOOT DIMENSION. 3. TAPE, FILL AND SAND EXPOSED JOINTS, EDGES, OPENINGS, AND FIXINGS, TO PRODUCE SURFACE READY TO RECEIVE

SURFACE FINISHES.

4. FEATHER COATS ONTO ADJOINING SURFACES SO THAT CAMBER IS MAXIMUM 1/32". 5. PROVIDE FIRE-RETARDANT, SOLID-WOOD BLOCKING IN PARTITIONS WHERE REQUIRED TO SUPPORT WALL MOUNTED

6. PROVIDE ALL ACCESSORIES, FASTENERS AND SEALANTS NECESSARY FOR PROPER INSTALLATION.

7. INSTALL HIGH STRENGTH CORNER TRIM (GORDON #901 SC 375) AT OUTSIDE CORNERS.

8. INSTALL WATER-RESISTANT AND MOLD-RESISTANT GYPSUM PANELS IN SHOWER AREAS.

0' 4' 8' 16' 24' 1/16" = 1'-0"

SPECIFICATIONS CONTINUED

<u>095123 – ACOUSTICAL TILE CEILINGS</u>

1. GRID SHALL BE ARMSTRONG 'PRELUDE XL' 15/16" GRID SYSTEM. COLOR: WHITE.

A) INSTALL CEILING IN ACCORDANCE WITH UL G031 FLOOR ASSEMBLY AT CORRIDOR

B) 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. C) SPLAY HANGERS ONLY WHERE REQUIRED TO MISS OBSTRUCTIONS; OFFSET RESULTING HORIZONTAL FORCES BY

BRACING, COUNTER-SPLAYING, OR OTHER EQUALLY EFFECTIVE MEANS. D) WHERE WIDTH OF DUCTS AND OTHER CONSTRUCTION WITHIN CEILING PLENUM PRODUCES OBSTRUCTIONS, INSTALL

SUPPLEMENTAL SUSPENSION MEMBERS AND HANGERS IN FORM OF TRAPEZES OR EQUIVALENT DEVICES. E) SECURE WIRE HANGERS DIRECTLY TO STRUCTURES OR TO INSERTS, EYE SCREWS, OR OTHER DEVICES THAT ARE SECURE AND APPROPRIATE FOR SUBSTRATE.

1. TILES SHALL BE ARMSTRONG 'CANYON' BEVELED TEGULAR TILE WITH HUMIGUARD PLUS, #1492, 24" X 24" X 15/16". COLOR

A) INSTALL ACOUSTICAL PANEL CEILINGS TO COMPLY WITH ASTM C 636, PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND CISCA'S "CEILING SYSTEMS HANDBOOK."

B) INSTALL ACOUSTICAL PANELS WITH UNDAMAGED EDGES AND FIT ACCURATELY INTO SUSPENSION SYSTEM RUNNERS AND EDGE MOLDINGS. SCRIBE AND CUT CEILING PANELS AT BORDERS AND PENETRATIONS TO PROVIDE A NEAT,

C) INSTALL PANELS WITH PATTERN AS SHOWN ON THE CONTRACT DRAWINGS.

D) INSTALL REVEAL-EDGED PANELS WITH BOTTOM OF REVEAL IN FIRM CONTACT WITH TOP SURFACE OF RUNNER

E) PAINT CUT EDGES OF PANEL REMAINING EXPOSED AFTER INSTALLATION: MATCH COLOR OF EXPOSED PANEL SURFACES USING COATING RECOMMENDED BY ACOUSTICAL PANEL MANUFACTURER.

<u>096516 – RESILIENT SHEET FLOORING</u>

1. SV-1: REFER TO FINISH SCHEDULE AND FINISH LEGEND A) PREPARE SUBSTRATE AND INSTALL TILE IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION

B) USE TROWELABLE LEVELING AND PATCHING COMPOUNDS, ACCORDING TO MANUFACTURER'S WRITTEN

INSTRUCTIONS, TO FILL CRACKS, HOLES, DEPRESSIONS, AND PROTRUSIONS IN SUBSTRATES. C) USE EPOXY ADHESIVE FOR INSTALLATION IN SERVER CONDITIONS PER MANUFACTURE'S RECOMMENDATION.

<u>096519 – RESILIENT TILE FLOORING</u>

1. LVT-1: REFER TO FINISH SCHEDULE AND FINISH LEGEND

2. LVT-2: REFER TO FINISH SCHEDULE AND FINISH LEGEND 3. LVT-3: REFER TO FINISH SCHEDULE AND FINISH LEGEND

4. LVT-4: REFER TO FINISH SCHEDULE AND FINISH LEGEND

A) PREPARE SUBSTRATE AND INSTALL TILE IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

B) USE TROWELABLE LEVELING AND PATCHING COMPOUNDS, ACCORDING TO MANUFACTURER'S WRITTEN

INSTRUCTIONS, TO FILL CRACKS, HOLES, DEPRESSIONS, AND PROTRUSIONS IN SUBSTRATES. C) USE EPOXY ADHESIVE FOR INSTALLATION IN SERVER CONDITIONS PER MANUFACTURE'S RECOMMENDATION.

D) TILE STANDARD: ASTM F1700. TYPE: A, SMOOTH SURFACE

<u>096813 – TILE CARPETING</u>

1. CPT-1: REFER TO FINISH SCHEDULE AND FINISH LEGEND

2. ADHESIVES: INSTALL WITH MILDEW-RESISTANT, NONSTAINING TYPE ADHESIVE TO SUIT PRODUCTS AND SUBFLOOR CONDITIONS, THAT COMPLIES WITH FLAMMABILITY REQUIREMENTS FOR INSTALLED CARPET, AND IS RECOMMENDED OR PROVIDED BY CARPET MANUFACTURER.

3. PREPARATION: COMPLY WITH CRI 104, SECTION 7.3, "SITE CONDITIONS; FLOOR PREPARATION," AND WITH CARPET MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR PREPARING SUBSTRATES.

A) REMOVE ADHESIVES OR OTHER MATERIALS THAT MAY BE BONDED TO THE SLAB, IN ACCORDANCE WITH THE CARPET

MANUFACTURER'S SUBSTRATE PREPARATION INSTRUCTIONS. B) USE TROWELABLE LEVELING AND PATCHING COMPOUNDS, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, TO FILL CRACKS, HOLES, DEPRESSIONS, AND PROTRUSIONS IN SUBSTRATES.

C) REMOVE COATINGS, OLD ADHESIVES, AND OTHER SUBSTANCES THAT ARE INCOMPATIBLE WITH ADHESIVES AND THAT CONTAIN SOAP, WAX, OIL, OR SILICONE, WITHOUT USING SOLVENTS. BROOM AND VACUUM CLEAN SUBSTRATES TO BE COVERED IMMEDIATELY BEFORE INSTALLING CARPET.

4. DIRECT-GLUE-DOWN INSTALLATION: COMPLY WITH CARPET MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. A) INSTALL TILES IN QUARTER TURN PATTERN. CUT AND FIT CARPET TO BUTT TIGHTLY TO VERTICAL SURFACES AND PERMANENT FIXTURES.

B) EXTEND CARPET INTO TOE SPACES, DOOR REVEALS, CLOSETS, OPEN-BOTTOMED OBSTRUCTIONS, REMOVABLE FLANGES, ALCOVES, AND SIMILAR OPENINGS.

C) INSTALL TO COMPLY WITH CARPET MANUFACTURER'S WRITTEN RECOMMENDATIONS.

096513 - RESILIENT BASE AND ACCESSORIES

1. RB-1 - JOHNSONITE BASEWORKS TS WALL BASE, OR APPROVED EQUAL. RUBBER, NO TOE, 1/8" THICK,4 INCHES HIGH, FROM CONTINUOUS COIL. CORNERS MAY BE JOB FORMED. COLOR: SEE FINISH SCHEDULE AND FINISH LEGEND

2. SVB-1 - MANNINGTON REVEAL SHEET VYNIL WALL BASE, 4 INCHES HIGH. COLOR: SEE FINISH SCHEDULE AND FINISH LEGEND

A) INSTALL WALL BASE IN LENGTHS AS LONG AS PRACTICABLE WITHOUT GAPS AT SEAMS AND WITH TOPS OF ADJACENT PIECES ALIGNED. TIGHTLY ADHERE WALL BASE TO SUBSTRATE THROUGHOUT LENGTH OF EACH PIECE, WITH BASE IN CONTINUOUS CONTACT WITH HORIZONTAL AND VERTICAL SUBSTRATES. B) IN CARPETED AREAS, INSTALL THE BASE BEFORE THE CARPET IS INSTALLED.

C) ATTACH TO PARTITIONS USING MANUFACTURER'S APPROVED ADHESIVE AND WITHOUT WRINKLING, GAPS AT SEAMS OR TOP. BULGING AT CORNERS. OR ADHESIVE OVERFLOW.

099123 – INTERIOR PAINTING 1. PT-1 SHERWIN WILLIAMS. COLOR: SEE FINISH SCHEDULE AND FINISH LEGEND

2. PT-2 SHERWIN WILLIAMS. COLOR: SEE FINISH SCHEDULE AND FINISH LEGEND 3. PT-3 SHERWIN WILLIAMS. COLOR: SEE FINISH SCHEDULE AND FINISH LEGEND

4. PT-4 SHERWIN WILLIAMS. COLOR: SEE FINISH SCHEDULE AND FINISH LEGEND 5. PT-5 SHERWIN WILLIAMS. COLOR: SEE FINISH SCHEDULE AND FINISH LEGEND

6. PT-6 SHERWIN WILLIAMS. COLOR: SEE FINISH SCHEDULE AND FINISH LEGEND 7. PAINT ALL PARTITIONS & OTHER EXPOSED AREAS, INCLUDING BUT NOT LIMITED TO CEILING BULKHEADS, WALLS, AND DOOR FRAMES.

8. APPLY PAINT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. USE APPLICATORS AND TECHNIQUES BEST

SUITED FOR SUBSTRATE AND TYPE OF MATERIAL BEING USED.

PROVIDE MANUFACTURER'S BEST QUALITY PAINT MATERIAL FOR THE COATINGS SPECIFIED.

10. EXAMINE SUBSTRATES, AREAS, AND CONDITIONS UNDER WHICH PAINTING WILL BE PERFORMED FOR COMPLIANCE WITH PAINT APPLICATION REQUIREMENTS. REMOVE DIRT, RUST, SCALE, GREASE, MOISTURE, SCUFFED SURFACES, OR CONDITIONS DETRIMENTAL TO FORMATION OF A DURABLE PAINT FILM BEFORE PAINTING THE SURFACE. DO NOT BEGIN TO APPLY PAINT UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED AND SURFACES RECEIVING PAINT ARE

THOROUGHLY DRY. 11. PROVIDE FINISH COATS THAT ARE COMPATIBLE WITH PRIMERS USED.

1/4" = 1'-0"

12. PROVIDE THE NUMBER OF COATS AND FILM THICKNESS REQUIRED REGARDLESS OF THE APPLICATION METHOD. 13. DO NOT APPLY SUCCEEDING COATS UNTIL THE PREVIOUS COAT HAS CURED FOR THE FULL TIME PERIOD RECOMMENDED

BY THE MANUFACTURER. 14. SAND BETWEEN APPLICATIONS IF SANDING IS REQUIRED TO PRODUCE A SMOOTH, EVEN SURFACE.

15. OMIT PRIMER ON ITEMS THAT HAVE BEEN SHOP PRIMED. TOUCH UP AND RE-PRIME AREAS THAT HAVE BEEN EXPOSED (I.E., DOOR UNDERCUTS, ETC.) BEFORE APPLYING FINAL COATS.

### SPECIFICATIONS CONTINUED

15. CLEAN AND PREPARE SURFACES TO BE PAINTED ACCORDING TO THE MANUFACTURER'S WRITTEN INSTRUCTIONS FOR EACH PARTICULAR SUBSTRATE CONDITION.

16. CLEAN GALVANIZED SURFACES WITH NON-PETROLEUM-BASED SOLVENTS SO SURFACE IS FREE OF OIL AND CONTAMINANTS BEFORE PAINTING

17. PROTECT WORK OF OTHER TRADES, WHETHER BEING PAINTED OR NOT, AGAINST DAMAGE BY PAINTING. CORRECT

DAMAGE BY CLEANING, REPAIRING, REPLACING, AND/OR REPAINTING TO THE TENANT'S SATISFACTION. 18. PROVIDE "WET PAINT" SIGNS TO PROTECT NEWLY PAINTED FINISHES. 19. REMOVE TEMPORARY PROTECTIVE WRAPPINGS, PROVIDED TO PROTECT WORK BY OTHERS, AFTER COMPLETING

PAINTING OPERATIONS. 20. MASK WINDOW MULLIONS, HARDWARE, HINGES AND OTHER ITEMS THAT CANNOT BE REMOVED. REMOVE ALL MASKING BEFORE THE ARCHITECT'S FINAL INSPECTION.

21. REMOVE EMPTY CANS, RAGS, RUBBISH, AND OTHER DISCARDED PAINT MATERIALS FROM THE SITE AT THE END OF EACH 22. PAINT SCHEDULE: PROVIDE THE NUMBER OF COATS NECESSARY TO COVER BUT NOT LESS THAN ONE (1) PRIME COAT

AND TWO (2) FINISH COATS ON NEW AND PATCHED SURFACES. USE SPECIFIC PAINT RECOMMENDED BY PAINT MANUFACTURER BASED UPON SUBSTRATE AND FINISH SPECIFIED BELOW: GYPSUM WALLBOARD, CONCRETE, PLASTER AND MINERAL-FIBER REINFORCED CEMENT PANELS – WALLS SUBJECT TO

NORMAL EXPOSURE. 1. SEMI-GLOSS FINISH (10 – 20 UNITS @ 85°)

A. 1<sup>ST</sup> COAT: S-W HARMONY INTERIOR PRIMER B11W900 - 0 G/L VOC

B. 2<sup>ND</sup> COAT: S-W HARMONY INTERIOR LATEX EG-SHEL B9W900 SERIES - 0 G/L VOC

C. 3<sup>RD</sup> COAT: S-W HARMONY INTERIOR LATEX EG-SHEL B9W900 SERIES - 0 G/L VOC

<u>101423 – ROOM-IDENTIFICATION PANEL SIGNAGE</u>

1. A 6" X 6" ADA COMPLIANT ROOM IDENTIFICATION SIGN SHALL BE PLACED OUTSIDE THE OFFICE, JANITORS CLOSET, GENDER NEUTRAL BATHRROMS, MECHANICAL CLOSETS, ELECTRICAL ROOM, SPRINKLER ROOM.

2. SIGNS SHALL BE MOUNTED AT HEIGHT AND LOCATION THAT COMPLIES WITH THE 2017 ADA STANDARDS FOR ACCESSIBLE

3. MANUFACTURER SHALL BE TAKEFORM, ASI SIGN SYSTEMS OR BEST SIGN SYSTEMS.

<u> 102116.19 – PLASTIC SHOWER AND DRESSING COMPARTMENTS</u>

1. PROVIDE ADA COMPLIANT ACRYLIC SHOWER ENCLOSURE 36"X36" ID 2. SHOWER ENCLOSURE SHALL BE FREEDOM MODEL APFQ3682BF7L

3. PROVIDE SHOWER CURTAIN AND ROD

102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES

1. REFER TO TOILET ACCESSORY SCHEDULE AND INTERIOR ELEVATIONS IN THE CONTRACT DRAWINGS.

2. PROVIDE FIRE RETARDANT WOOD BLOCKING IN THE WALL FOR MOUNTING OF ALL ACCESSORIES.

113013 - RESIDENTIAL APPLIANCES

PROVIDE AND INSTALL APPLIANCES PER MANUFACTURER'S GUIDELINES.

2. REFRIGERATOR – MANUFACTURER AND MODEL SHOWN ON THE CONTRACT DRAWINGS.

3. MICROWAVE – MANUFACTURER AND MODEL SHOWN ON THE CONTRACT DRAWINGS.

4. DISHWASHER - MANUFACTURER AND MODEL SHOWN ON CONTRACT DRAWINGS. 5. WASHER AND DRYER - MANUFACTURER AND MODEL SHOWN ON CONTRACT DRAWINGS

123661 – SOLID SURFACE COUNTERTOPS

1. SOLID SURFACE MATERIAL - COUNTER & BACKSPLASH: CORIAN, GRADE C OR APPROVED EQUAL, COLOR TO BE

SELECTED BY OWNER.

2. SOLID SURFACE MATERIAL - INTEGRAL BOWL: WHITE

3. COUNTER SUPPORT BRACKETS

A) RAKKS EH-1818-FM FLUSH MOUNT BRACKETS OR APPROVED EQUAL. B) INSTALL PER MANUFACTURER GUIDELINES. DETERMINE SUPPORT SPACING PER MANUFACTURER GUIDELINES.

210000 – FIRE PROTECTION

1. SEE SPECIFICATIONS AND NOTES ON THE P-SERIES DRAWINGS.

<u> 220000 – PLUMBING</u> 1. SEE SPECIFICATIONS AND NOTES ON THE P-SERIES DRAWINGS.

230000 - HEATING AND AIR CONDITIONING

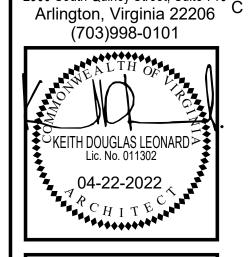
1. SEE SPECIFICATIONS AND NOTES ON THE M-SERIES DRAWINGS.

<u> 260000 – ELECTRICAL</u>

1. SEE SPECIFICATIONS AND NOTES ON THE E-SERIES DRAWINGS.

2. ELECTRICAL SWITCH PLATES & DEVICES: THE VISIBLE ELEMENTS OF ALL NEW DEVICES (SWITCH PLATES, SWITCHES, RECEPTACLES, ETC.) SHALL BE WHITE PLASTIC WITH SMOOTH FINISH. REPLACE REMAINING EXISTING DEVICES AND PLATES SO THAT ELEMENTS MATCH NEW DEVICES.





CENTER ITY CHILDCARE ON COUNT INGTON LINGTON  $\overline{O}$ 

<u>N</u>O

SHEET

G-003

6" = 1'-0"

NUMBER

**DEGREES** 

DIAMETER

ARC LENGTH

AIR CONDITIONING

ASBESTOS CONTAINING MATERIAL

ACOUSTIC CEILING PANEL

ACOUSTIC CEILING TILE

ABOVE FINISH FLOOR

AIR HANDLING UNIT

ANCHOR, ANCHORAGE

ARCHITECTURAL PRECAST CONCRETE

ANCHOR BOLT

ADDITION

ADHESIVE

**ADJUSTABLE** 

**AGGREGATE** 

**ALUMINUM** 

**ALTERNATE** 

**AMPERE** 

ANODIZED

**ACCESS POINT** 

**APPROXIMATE** 

**ASBESTOS** 

ASPHALT

**ATTENUATION** 

ACOUSTIC WALL PANEL

AUTOMATIC

**AVERAGE** 

ABUSE RESISTANT

ARCHITECT, ARCHITECTURAL

PLUS OR MINUS

AND

DIAGONAL

DISPOSAL

DIVISION

DOWN

DEAD LOAD

DEMOUNTABLE

DAMPPROOFING

DOOR, DISPLAY RAIL

DISPENSER

DOWNSPOU<sup>-</sup>

DRAWING

DRAWER

EAST

EACH

EXHAUST FAN

**EXPANSION JOINT** 

ELEVATION, ELEVATOR

ENCLOSE, ENCLOSURE

ELECTRICAL PANELBOARD

EXPANDED POLYSTYRENE

ELECTRIC WATER COOLER

EXPOSED / EXPANSION

EXPANSION CONSTRUCTION

FLOOR DRAIN, FIRE DAMPER

FIRE EXTINGUISHER CABINET

FLOOR EXPANSION JOINT

FINISH FLOOR ELEVATION

FIBER REINFORCED GYPSUM BOARD

ETHYLENE PROPYLENE DIENE

ELASTOMERIC

ENTRANCE MAT

**EMERGENCY** 

MONOMER

**EQUIPMENT** 

ESTIMATE

**EXCAVATE** 

**EXHAUST** 

**EXISTING** 

**EXTERIOR** 

**FABRICATE** 

FACE BRICK

FLASH COVED

FOUNDATION

FINISH FLOOR

**FIBERGLASS** 

FIRE HYDRANT

FIRE HOSE CABINET

FINISH, FINISHED

FIXTURE

FLEXIBLE

FLASHING

FLUORESCENT

FACE OF CONCRETE

FACE OF MASONRY

FACE OF STUDS

**FIREPROOF** 

FIREPLACE

FIRE RATED

FRAMING

FOOT, FEET

FOOTING

FURNITURE

FURRING

GAUGE

GALLON

GALVANIZED

GRAB BAR

**GENERAL** 

GLASS, GLAZING

GRADE / GROUT

GALLONS PER MINUTE

GYPSUM WALLBOARD

GLAZED WALL TILE

HANDICAPPED

**HOLLOW CORE** 

**HARDBOARD** 

**HARDWOOD** 

HARDWARE

HEIGHT

HOSE BIB

GYPSUM

HIGH

GLAZED STRUCTURAL UNIT

FRAME, FRAMED

FURRED, FURRING

FEMININE NAPKIN DISPENSER

(GLASS) FIBER REINFORCED GYPSUM

FIBERGLASS REINFORCED PLASTIC

GENERAL CONTRACT, CONTRACTOR

GLASS FIBER REINFORCED CONCRETE

FIRE RETARDANT TREATED

FLOOR

FASTEN, FASTENER

FIRE EXTINGUISHER

**EPOXY** 

**EQUAL** 

ELECTRICAL

EXTERIOR FINISH SYSTEM

EXTERIOR INSULATION FINISH SYSTEM

**DIMENSION** 

DIM

DISP

DN

DPG

**DPR** 

DR

DWG

DWR

EFS

**EIFS** 

**ELAS** 

**ELEC** 

**ELEV** 

EM

**EMER** 

**ENCL** 

**EPDM** 

EPS

EPX

EQ

**EST** 

**EWC** 

**EXCA** 

EXH

EXP

EXT

FAB

FAS

FB

FD

FDN

FIN

FIX

FLR

FND

FOC

FOM

FRM

**FRMG** 

FRT

FTG

**FURR** 

GALV

GEN

GPM

**GWB** 

GYP

**HDBD** 

HDWD

**HDWR** 

HGT

**GFRC** 

FLSHG

FLUOR, FLUR

**EXIST** 

EXP C

**EQUIP** 

EP

AΒ

ACM

ACP

ACT

ADH

ADJ

AFF

AGG

AHU

AMP, A

ANCH

ANOD

APC

AR

ARCH

ASB

ASPH

AVG

AWP

ATTEN

APPROX

ADDN

**ABBREVIATIONS** 

HEATING, VENTILATION AND AIR

INCLUDE, INCLUDED, INCLUDING

INSULATE, INSULATED, INSULATION

HOLLOW METAL

CONDITIONING

HOT WATER HEATER

INSIDE DIAMETER

INFORMATION

INSTALLATION

INTERIOR

INVERT

**JANITOR** 

JUNCTION

JOIST

JOINT

KITCHEN

KNOCKOUT

KILOVOLT

**KILOWATT** 

LAMINATE

LAVATORY

LINEAR FEET

LEFT HAND

LINEAR

LOCKER

LOW POINT

LIGHTING

LINTEL

LOUVER

METER

MOP SINK

MACHINE

MASONRY

MATERIAL

MAXIMUM

MEDIUM

**MEMBRANE** 

MANHOLE

MINIMUM

MIRROR

MOLDING

MODIFIED

MOVABLE

MOUNT

METAL

MULLION

NORTH

NATURAL

NUMBER

NOMINAL

**OVERALL** 

OBSCURE

ON CENTER

INSTALLED

OVERHEAD

OPENING

OPPOSITE

PARALLEL

PARTIAL

PLASTIC LAMINATE

PLATE

MILLIMETER

MISCELLANEOUS

MASONRY OPENING

MOUNTED, MOUNTING

MEMBRANE WATERPROOFING

MARKERBOARD

MODIFIED BITUMEN ROOF

MECHANIC, MECHANICAL

**MAINTENANCE** 

MANUFACTURE, MANUFACTURER

LIGHTWEIGHT

LAMINATED GLASS

LONG LEG HORIZONTAL

LONG LEG VERTICAL

POUND

KILOVOLT AMPERE

LENGTH, LONG, LOW

JUNCTION BOX

JANITOR CLOSET

INTERLOCK

HOT WATER

INCH

HORIZONTAL

HIGH POINT

HEATING

HORIZ

HTG

INFO

INT

KVA

LAV

LTG

LTL

LVR

MACH

MAINT

MECH

MTD

MULL

OBS

OD

OF/CI

PAR

PART

PERM

**MANUF** 

INTRLK

PLAS PLASTER PLUMB PLUMBING PLYWD PLYWOOD

POLY

PORT

PORTB

**PREFAB** 

PPT

PRT

PTD

PTN

QTY

RD

RECP

REFRIG

REQD

**REQMT** 

**RESIL** 

RET

RSHT

SCHED

SCW

SFGL

SHLVG

SD

REF

**PANEL** 

POLYURETHANE

PORCELAIN TILE

PRE-FINISHED

PAINTED

PARTITION

PAVEMENT

QUARRY TILE

RISER, RIDGE

**RETURN AIR** 

RESILIENT BASE

ROOF DRAIN

RECEPTACLE

REFERENCE

REFRIGERATOR

REINFORCING

REMOVE

REQUIRED

RESILIENT

RETURN

ROOFING

REQUIREMENT

REFLECTED CEILING PLAN

REINFORCE, REINFORCED

REVISION, REVISIONS, REVISED

REFLECT, REFLECTED, REFLECTIVE

RADIUS

QUANTITY

PORCELAIN TILE

PORCELAIN TILE BASE

PREFABRICATE, PREFABRICATED

POLYVINYL CHLORIDE / PVC EDGE

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

TYP UON PRESERVATIVE PRESSURE TREATED

UNDERCUT UNDER GROUND

UNIT HEATER UNFINISHED UNLESS OTHERWISE NOTED VOLT, VALLEY VACUUM VARNISH

TYPICAL

VAC VAR VENTED BASE VCT VEN VENEER **VERT** VERTICAL

VINYL COMPOSITION TILE **VEST** VESTIBULE VAPOR RETARDER VINYL TILE VTR VENT THRU ROOF VWC

VINYL WALL COVERING WEST, WIDE, WIDTH WITH WITHOUT WAINSCOT WOOD BASE WATER CLOSET

WOOD / WOOD FLOORING WOOD BASE WINDOW WIRE GLASS WATER HEATER WIRE MANAGEMENT SLOT WATERPROOFING WASTE RECEPTACLE WEIGHT

WELDED WIRE FABRIC WELDED WIRE MESH

W/O

WAIN

WDB

WDW

WGL

RIGHT HAND RAIN LEADER ROOM ROUGH OPENING RESILIENT SHEET RUBBER TILE / RUBBER TREAD

**ROOF TOP UNIT** SOUTH STAINLESS STEEL, SERVICE SINK SOUND ATTENUATION BLANKET SANITARY SEWER SUSPENDED ACOUSTIC PANEL CEILING

SOLID CORE, SEALED CONCRETE SCHEDULE SOLID CORE WOOD SOAP DISPENSER, STORM DRAIN

SQUARE FEET SAFETY GLASS SHELVING SECURITY HOLLOW METAL

SHEATHING SIMILAR SANITARY NAPKIN DISPOSER SPRAY-ON FIREPROOFING SPECIFICATION, SPECIFICATIONS

SPEAKER SQUARE SOLID SURFACE

STAIN, STONE SOUND TRANSMISSION CLASS STD STANDARD STOREFRONT STEEL

SYSTEM

THROUGH

NO CHARGE STOR **STORAGE** STRUC STRUCTURAL NOT IN CONTRACT SUBSTITUTE SUSP SUSPENDED SYMMETRICAL, SYMMETRY NOISE REDUCTION COEFFICIENT SYN SYNTHETIC NOT TO SCALE

TREAD **TOP & BOTTOM** TACK BOARD OUTSIDE DIAMETER TELEPHONE OWNER FURNISHED / CONTRACTOR TEMPORARY, TEMPERED **TONGUE & GROVE** THICK, THICKNESS THRESHOLD

TOP OF TOP OF CURB TOP OF MASONRY PRE-CAST, PIECE TOP OF STEEL PERFORATE (D) TOP OF WALL PERIMETER **TOILET PARTITION** TRTD POURED IN PLACE TREATED PROPERTY LINE / PLASTIC LAMINATE

1/4" = 1'-0"

TEACHERS STORAGE CABINET TOILET TISSUE DISPENSER

**TELEVISION** 

ARCHITECTURAL MATERIAL LEGEND

CONTINUOUS WOOD BLOCKING **CONCRETE MASONRY UNIT** 

CAST-IN-PLACE CONCRETE

STEEL

EARTH / COMPACT FILL

BATT INSULATION POROUS FILL / GRAVEL

RIGID INSULATION

**GYPSUM BOARD** RESILIENT FLOORING / PLASTIC LAMINATE

ALUMINUM

FINISHED WOOD WOOD BLOCKING

**BRICK** 

**ACOUSTICAL TILE** 

PLYWOOD

**CERAMIC TILE - LARGE SCALE** SAND / MORTAR / PLASTER

**GRAVEL** 

ARCHITECTURAL GRAPHIC SYMBOLS

DOOR TAG -**BUILDING DIV/DOOR NUMBER** LOCATION SUFFIX (IF REQ'D)

LOUVER TYPE

**NEW WORK KEY NOTE** 

SIGNAGE TYPE

SIGNAGE NO. ARCH NO.

**CONTROL JOINT** 

 $\langle LX \rangle$ 

XX\_

DEMOLITION KEY NOTE EXTERIOR / INTERIOR / INTERIOR CASEWORK ELEVATION IDENTIFICATION NUMBER

SHEET NUMBER WHERE ELEVATION IS LOCATED

WINDOW FRAME TYPES (REF A600 SERIES DRAWINGS) STOREFRONT TOILET ACCESSORIES

PARTITION TYPE (SEE PARTITION LEGEND)

**ROOM NAME** 

WINDOW TYPE

BLDG DIV / CONST NO.

HOLLOW METAL FRAME TYPES

(REF A600 SERIES DRAWINGS)

HOLLOW METAL FRAME

**ELEVATION REFERENCE BUILDING SECTION REFERENCE SECTION NUMBER** 

DRAWING NUMBER WHERE SECTION IS SECTION REFERENCE SECTION NUMBER DRAWING NUMBER WHERE SECTION IS

**ENLARGED PLAN OR DETAIL REFERENCE** PLAN OR DETAIL NUMBER DRAWING NUMBER WHERE ENLARGED PLAN OR DETAIL IS DRAWN DRAWING TITLE

DRAWING SHEET NUMBER

1 1/2" = 1'-0"

SCALE: 1/8" = 1'-0"-DRAWING SCALE DRAWING TITLE WITH REFERENCE SYMBOL

DRAWING NUMBER DESIGNATION TITLE-DRAWING TITLE A-101/ SCALE: 1/8" = 1'-0" R101----DRAWING REFERENCE NUMBER DRAWING SCALE

6" = 1'-0"

SHEET

A-001

ARCHITECTS, PC

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Arlington, Virginia 22206

Arlington, Virginia 22206

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**I ₹**○KEITH DOUGLAS LEONARD;

04-22-2022

INFORMATION

BOTTOM OF CURB BOARD **BUILDING EXPANSION JOINT** BEJ BETW BETWEEN **BITUMINOUS** BLDG BUILDING BLOCK BLKG **BLOCKING** BM BEAM **BOTTOM OF** BOT, B **BOTTOM** BRG **BEARING** BRK **BRICK BOTH SIDES** BTWN, B/\ BETWEEN BUR **BUILT-UP ROOFING** BEVELED CARPET CAB **CABINET** CAP CAPACITY CB CHALKBOARD CCTV CLOSED CIRCUIT TELEVISION CEM CEMENT CEM TOP **CEMENT TOPPING** CUBIC FOOT CFLSHG **COUNTER FLASHING** CFM **CUBIC FEET PER MINUTE** CG **CORNER GUARD** CHAM CHAMFER CAST IRON CIP **CAST IN PLACE** CIR CIRCLE CONTROL JOINT CK CAULK, CAULKING CLG CEILING CLO CLOSET CLR CLEAR CMP CORRUGATED METAL PIPE CMU CONCRETE MASONRY UNIT CNTR COUNTER CO **CLEAN OUT** COL COLUMN COMM COMMUNICATION COMPOSITE COMP CONC CONCRETE CONN CONNECTION CONST CONSTRUCTION CONT CONTINUOUS CONTR CONTRACT, CONTRACTOR CORR CORRUGATED CRS COURSE. COURSES CSMT CASEMENT CSWK CASEWORK CERAMIC TILE CTB CERAMIC TILE BASE CU FT CUBIC FEET CU YD CUBIC YARD CUH CABINET UNIT HEATER CW COLD WATER CWFP CEMENTITIOUS WOOD FIBER PANELS DEEP, DEPTH, DRAIN DBL **DOUBLE** DEMO DEMOLITION DET / DTL DRINKING FOUNTAIN DOUBLE HUNG DIAMETER DIA

- THE EXISTING CONDITIONS INFORMATION INDICATED IN THE CONTRACT DOCUMENTS IS BASED ON EXISTING DOCUMENTATION AND FIELD OBSERVATIONS, BUT IS NOT A WARRANTY OF EXISTING CONDITIONS AT THE TIME OF CONSTRUCTION. ALL NEW CONSTRUCTION IS INDICATED RELATIVE TO THE EXISTING BUILDING AND SHALL BE COORDINATED WITH THE ACTUAL FIELD CONDITIONS FOUND. THE CONTRACTOR SHALL ASSUME FULL AND UNDIVIDED RESPONSIBILITY FOR THE ACCURACY, FIT AND STABILITY OF ALL PARTS OF THE WORK.
- 3. ALL REMOVALS AND SALVAGE, UNLESS SPECIFICALLY NOTED OR REQUESTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- . THE CONTRACTOR SHALL REPAIR OR RESTORE TO ITS ORIGINAL CONDITION ALL WORK AND ITEMS DAMAGED AS A RESULT OF DEMOLITION AND CONSTRUCTION OPERATIONS. ANY DISTURBANCE OR DAMAGE TO THE EXISTING FACILITY RESULTING EITHER DIRECTLY OR INDIRECTLY FROM THE OPERATION OF THIS CONTRACT SHALL BE PROMPTLY REPAIRED, RESTORED OR REPLACED AT NO ADDITIONAL COST.
- 5. ALL TRANSITIONS OF NEW WORK TO EXISTING CONSTRUCTION, INCLUDING AT FLOORS, WALLS, CEILINGS AND ROOFS, SHALL BE CAREFULLY EXECUTED. EXISTING CONSTRUCTION SHALL BE REPAIRED OR PATCHED AS NEEDED TO PROVIDE A SMOOTH TRANSITION.
- 6. ALL NEW AND EXISTING TO REMAIN SUBSTRATES SHALL BE PROPERLY PREPARED BEFORE APPLICATION OF FINISHES. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR SUBSTRATE CONDITIONS WHERE FINISHES ARE APPLIED.
- CONTRACTOR SHALL COORDINATE BETWEEN ALL DESIGN DISCIPLINES AND CONSTRUCTION TRADES.
- 8. THE WORD "PROVIDE" SHALL MEAN CONTRACTOR TO SUPPLY, FURNISH, AND INSTALL COMPLETE WITH ALL PARTS. ACCESSORIES AND/OR SERVICES TO BE READY FOR ITS INTENDED USE.
- 9. PROVIDE ALL WORK INDICATED IN ALL DRAWINGS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
- 10. DO NOT SCALE DRAWINGS. CONTACT ARCHITECT IMMEDIATELY WITH ANY DISCREPANCIES. VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK.
- 11. UNLESS OTHERWISE NOTED, ALL FLOOR PLAN DIMENSIONS ARE TO FACE OF STUD, FACE OF CMU, OR FACE OF FOUNDATION WALL
- 12. INSTALLATION OF ALL TRADES SHALL BE IN CONFORMANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS. WHETHER ENFORCED OR NOT.
- 13. OWNER SUPPLIED-EQUIPMENT AND MATERIALS: THE OWNER SHALL PROVIDE ALL COORDINATION FOR THE INSTALLATION OF OWNER SUPPLIED OR NON-SELECTED EQUIPMENT AND MATERIALS FOR WHICH CRITERIA GENERALLY DESCRIBING OPERATION CHARACTERISTICS, ELECTRICAL, PLUMBING, MECHANICAL AND PHYSICAL REQUIREMENTS HAVE NOT BEEN COMMUNICATED TO THE ARCHITECT IN WRITING PRIOR TO PUBLICATION OF CONSTRUCTION DOCUMENTS. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR APPROPRIATENESS OF THE OWNER-SUPPLIED MATERIALS AND EQUIPMENT
- 14. INSTALL ALL TRADES IN CONFORMANCE WITH ICC/ANSI A117.1 (2017) AND ADA STANDARDS FOR ACCESSIBLE DESIGN (2010). INSTALL ALL REQUIRED BLOCKING FOR ALL HANDICAP TOILET FIXTURES AND ACCESSORIES. INSTALLATION FOR GRAB BARS TO MEET OR EXCEED A MINIMUM 250# FORCE HORIZONTALLY AND VERTICALLY.
- 15. WHERE REQUIRED BY CODE, PROVIDE NON-COMBUSTIBLE MATERIALS IN LIEU OF MATERIALS INDICATED ON THE DRAWINGS.
- 16. UNLESS OTHERWISE INDICATED, EACH NOTE, DETAIL, SECTION, OR FEATURE SHOWN FOR ONE CONDITION SHALL APPLY TO ALL SIMILAR CONDITIONS. WHERE A NOTE, DETAIL, SECTION, OR FEATURE IS NOT INDICATED, THE INTENT IS THAT THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH SIMILAR NOTES, DETAILS, SECTIONS, OR FEATURES THAT ARE INDICATED. REFER ANY CONDITIONS IN QUESTION TO THE ARCHITECT FOR INTERPRETATION.
- 17. LOCATE ALL SLOTS, CHASES, OPENINGS, AND RECESSES THROUGH FLOORS WALLS, CEILINGS, AND ROOFS REQUIRED FOR PROPER INSTALLATION OF THE WORK PRIOR TO CONSTRUCTION. PROVIDE MISCELLANEOUS BUILT-UP JAMBS, HEADERS, AND OTHER FRAMING AS SHOWN OR REASONABLY IMPLIED TO FRAME OPENINGS IN WALLS. FLOORS. CEILINGS. ROOFS AND SIMILAR ASSEMBLIES FOR MECHANICAL. ELECTRICAL OR OTHER EQUIPMENT AND ANY OTHER WORK WHICH PASSES THROUGH THE VARIOUS WALL, FLOOR, CEILING, ROOF, OR SIMILAR ASSEMBLIES.
- 18. THE CONTRACTOR SHALL MAINTAIN TWO (2) SETS OF "AS-BUILT" DRAWINGS. INDICATING REVISIONS TO THE WORK. THE AS-BUILT DRAWINGS WILL BE PROVIDED TO THE OWNER AT THE COMPLETION OF THE PROJECT AND PRIOR TO FINAL PAYMENT.
- 19. THE CONTRACTOR, AT ALL TIMES, SHALL KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THE CONTRACTOR'S OPERATIONS. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE ALL SUCH WASTE MATERIAL AND RUBBISH FROM THE PREMISES AS WELL AS THE CONTRACTOR'S TOOLS. CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIALS.
- 20. ALL ON SITE STORM DRAINAGE SHALL BE INSPECTED BY BOTH THE CIVIL ENGINEER OF RECORD AND THE CIVIL INSPECTOR FOR COMPLIANCE WITH THE REQUIREMENTS AS SHOWN ON THE APPROVED CIVIL DRAWINGS, SPECIFICATIONS, AND AS PER THE VIRGINIA PLUMBING CODE 2018, CHAPTER 11. THUS, THE CONTRACTOR SHALL REQUEST INSPECTION(S) FOR APPROVAL OF WORK PRIOR TO COVERING ANY STORM DRAINAGE INDICATED ON THE APPROVED SITE PLAN AND CIVIL DRAWINGS.
- 21. IN ADDITION TO COMPLIANCE WITH THE CONTRACT DOCUMENTS, ALL PLUMBING PIPING WITHIN THE BUILDING INCLUDING STORM, SANITARY, AND WATER DISTRIBUTION MUST BE TESTED AND APPROVED BY THE PLUMBING INSPECTOR AND MEET THE REQUIREMENTS OF VIRGINIA PLUMBING CODE, 2018. THE CONTRACTOR SHALL REQUEST INSPECTIONS BY COUNTY PLUMBING INSPECTOR PRIOR TO COVERING ANY INSTALLED WORK. CONTRACTOR MUST SECURE PERMIT PRIOR TO INSTALLATION.
- 22. ELECTRICAL RECEPTACLES, SWITCHES, OUTLETS, ETC. SHALL NOT BE INSTALLED BACK TO BACK ON FIRE RESISTANCE RATED WALLS. THEY SHALL BE AT LEAST 24" APART OR PROTECTED BY OTHER MEANS AS REQUIRED BY SECTION 714.4.2 VIRGINIA CONSTRUCTION CODE, 2018.
- 23. PROVIDE APPROVED ELECTRICALLY ILLUMINATED EXIT SIGNS SHALL BE INSTALLED OVER ALL REQUIRED EXIT DOORS WHERE NECESSARY, DIRECTIONAL SIGNS SHALL BE PROVIDED TO INDICATE THE DIRECTION AND WAY OF EGRESS; SECTION 1013 OF THE VIRGINIA CONSTRUCTION CODE. 2018. REFERENCE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 24. PROVIDE APPROVED EMERGENCY LIGHTING FOR ILLUMINATION OF ALL MEANS OF EGRESS. ACTUATION IS TO BE AUTOMATIC IN THE EVENT OF POWER FAILURE; SECTION 1008, VIRGINIA CONSTRUCTION CODE, 2018. REFERENCE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 25. THERE SHALL BE NO UNPROTECTED OPENINGS WITHIN FIRE RATED ASSEMBLIES. ALL DUCT PENETRATIONS SHALL BE PROTECTED WITH FIRE DAMPERS. EACH PENETRATION OF A FIRE RESISTANT RATED ASSEMBLY BY A PIPE, TUBE, WIRE, OR CONDUIT SHALL BE PROTECTED BY A THROUGH PENETRATION FIRE STOP SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTM E 814 OR UL 1479.

### GENERAL ARCHITECTURAL NOTES

- 26. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED IN OCCUPANCIES AND LOCATION AS REQUIRED BY SECTION 906 OF THE VIRGINIA CONSTRUCTION CODE, 2018. REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 27. AN APPROVED FIRE ALARM SYSTEM SHALL BE INSTALLED IN THIS BUILDING IN ACCORDANCE WITH SECTION 907, VIRGINIA CONSTRUCTION CODE, 2018. DETAILED PLANS AND SPECIFICATIONS SHALL BE SUBMITTED TO THE COUNTY FIRE PROTECTION ENGINEER FOR REVIEW AND A PERMIT SECURED PRIOR TO INSTALLATION. FIRE ALARM SYSTEM DESIGN AND SUBMISSION FOR PERMIT APPROVAL BY OTHERS (PRIOR TO START OF THIS WORK.) REFERENCE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 28. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE VIRGINIA MECHANICAL CODE, 2018. DETAILED PLANS AND SPECIFICATIONS SHALL BE SUBMITTED TO THE COUNTY MECHANICAL INSPECTOR FOR REVIEW AND A MECHANICAL PERMIT SECURED PRIOR TO INSTALLATION. REFERENCE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 29. ALL ELECTRICAL INSTALLATION SHALL CONFORM TO CHAPTER 27 OF THE VIRGINIA CONSTRUCTION CODE, 2018 AND NATIONAL ELECTRICAL CODE, 2017. A PERMIT SHALL BE SECURED PRIOR TO COMMENCEMENT OF ANY WORK. REFERENCE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 30. WIRING METHODS SHALL NOT BE SECURED TO OR SUPPORTED BY THE CEILING ASSEMBLY, INCLUDING CEILING SUPPORT WIRES. WHEN SUCH WIRING METHODS ARE LOCATED ABOVE A FLOOR/CEILING OR ROOF/CEILING ASSEMBLY.
- 31. ALL POTABLE WATER OUTLETS SHALL BE PROTECTED FROM CROSS-CONNECTION AS REQUIRED UNDER SECTION 608. VIRGINIA PLUMBING CODE, 2018. REFERENCE CIVIL AND PLUMBING DRAWINGS/SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE PLUMBING INSPECTOR SHOULD BE GIVEN ANY INFORMATION ON TESTABLE BACKFLOW PREVENTERS (REDUCED PRESSURE, DOUBLE CHECK ASSEMBLY, OR PRESSURE VACUUM BREAKER TYPE.) TEST REQUIRED BY CERTIFIED TESTER PRIOR TO PLUMBING FINAL ON ANY TESTABLE BACKFLOW DEVICE.
- 32. ALL VERTICAL FIRE RESISTANT RATED ASSEMBLIES SHALL BE IDENTIFIED BY SIGNAGE LOCATED ON THE ASSEMBLY ABOVE THE CEILING. SUCH SIGNAGE SHALL HAVE LETTERS NO SMALLER THAN ONE INCH IN HEIGHT THAT STATE "XX FIRE RATED BARRIER" ("XX" EQUALS THE HOURLY RATING AND ADJUST "BARRIER" FOR THE PROPER RATED WALL ASSEMBLY). SIGNAGE SHALL BE PLACED AT HORIZONTAL INTERVALS OF 8 FEET.

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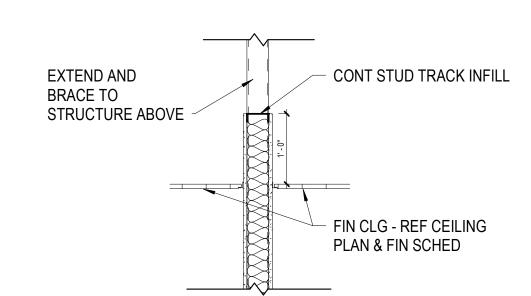
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S3		S6		S6B		S71	
PARTITION TERMINATION		PARTITION TERMINATION		PARTITION TERMINATION		PARTITION TERMINATION	
NOTE XX		REFER TO PARTITION TYPE NOTE 1.		NOTE 1		NOTE 1	
CEILING LINE		CEILING LINE		CEILING LINE		CEILING LINE	
METAL STUDS @16" OC		METAL STUDS @16" OC	_	METAL STUDS @16" OC SOUND BATTS		FURRING CHANNEL @16" OC	
1 LAYER 5/8" GYP BD  FLOOR LINE		1 LAYER 5/8" ABUSE RESISTANT GYP BD EACH SIDE  FLOOR LINE		1 LAYER 5/8" ABUSE RESISTANT GYP BD EACH SIDE		1 LAYER 5/8" GYP BD  FLOOR LINE	
X		X		X		X	<u>-</u>
ACTUAL DIMENSION 'X'	4 1/4"	ACTUAL DIMENSION 'X'	4 7/8"	ACTUAL DIMENSION 'X'	4 7/8"	ACTUAL DIMENSION 'X'	1 1/2"
STUD SIZE	3 5/8"	STUD SIZE	3 5/8"	STUD SIZE	3 5/8"	STUD SIZE	7/8"
CMU SIZE	-	CMU SIZE	-	CMU SIZE	-	CMU SIZE	-

### PARTITION TYPES

SCALE: 3/4" = 1'-0"



SHOWN ON REFLECTED CEILING PLANS SHADED SOLID

TYPICAL TERMINATION OF METAL STUD PARTITION
WHERE GYP BD IS **NOT** REQUIRED TO EXTEND TO
DECK ABOVE.

PARTITION TERMINATION DETAILS

SCALE: 3/4" = 1'-0"

### PARTITION TYPE NOTES

- 1. PARTITION TERMINATION LOCATION & CONDITIONS MAY VARY. REFER TO REFLECTED CEILING PLANS FOR PARTITION TERMINATION LEGEND AND SHEET A-003 FOR TYPICAL TERMINATION DETAILS.
- 2. REFER TO LIFE SAFETY PLAN FOR LOCATIONS.
- 3. PARTITION TYPES DO NOT INCLUDE ALL APPLIED FINISHES. REFER TO FINISH SCHEDULE.

ON TYPE SCHEDULE AND DETAILS

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ARLINGTON COUNTY
1915 N. UHLE STREET
ARLINGTON, VA 22201
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SHEET

DEMOLISH AND DISPOSE OF EXISTING WINDOW SYSTEM INCLUDING GLAZING, AND EXISTING LOUVER BLINDS PATCH AND REPAIR ADJACENT AREA TO THE EXTENT REQUIRED. PREP ADJACENT AREAS TO

DEMOLISH AND DISPOSE OF EXISTING WINDOW FRAME, PATCH AND REPAIR ADJACENT AREA TO THE EXTENT REQUIRED. PREP ADJACENT AREAS TO RECEIVE NEW WALL INFILL

® REMOVE EXISTING CEILING IN ITS ENTIRETY. REFER TO OTHER DISCIPLINES FOR ADDITIONAL INFORMATION.

REMOVE EXITING CARPET. VERIFY WHETHER PLATFORM STRUCTURE CAN BE DEMOLISHED. PATCH AND REPAIR SUBFLOOR AS NEEDED TO THE EXTENT REQUIRED. PREP ADJACENT AREAS TO RECEIVE NEW

DEMOLISH AND DISPOSE OF EXISTING GYPSUM WALL BOARD, EXISTING STRUCTURE TO REMAIN IN PLACE. PREP ADJACENT AREAS TO RECEIVE NEW WORK.

©6 RELOCATE EXISTING AHU. COORDINATE WITH MEP DWGS.

 $\bigcirc 7$  UNINSTALL EXISTING STOREFRONT SYSTEM AND GLAZING COMPLETE AND STORE FOR REINSTALLATION. REMOVE EXITING SEALANT, EXISTING LOUVER BLINDS. PATCH AND REPAIR ADJACENT AREA TO THE EXTENT REQUIRED. PREP AND CLEAN EXISTING STOREFRONT AND ADJACENT AREAS TO RECEIVE NEW WORK.

UNINSTALL EXISTING STOREFRONT DOOR SYSTEM AND GLAZING. REMOVE EXISTING SEALANT. PATCH AND REPAIR ADJACENT AREA TO THE EXTENT REQUIRED

SAWCUT AND REMOVE PORTION OF EXISTING MASONRY WALL FOR EXTENT AS INDICATED INCLUDING WINDOW WITHIN PARTITION. SALVAGE MASONRY FOR NEW WORK INFILL. PATCH AND REPAIR WALL AND CONCRETE SLAB WHERE REMOVED. LOCATE NEAREST MORTAR JT. COORDINATE W/ NEW WORK REQUIREMENTS. PATCH AND REPAIR ADJACENT WALLS AND FLOORS TO REMAIN. PREPARE EXISTING SURFACES FOR NEW WORK.

REMOVE EXISTING VCT FLOORING COMPLETE FOR EXTENT INDICATED. PREPARE EXISTING SUBSTRATE TO RECEIVE NEW FLR FINISH.

(1) REMOVE EXISTING TOILET PARTITION, TOILETS, SINKS AND PLUMBING FIXTURES

REMOVE EXISTING REFRIGERATOR, DISHWASHER, OVEN, WASHER, DRYER AND OTHER APPLIANCES

(013) REMOVE EXISTING DOOR.

REMOVE WALL MOUNTED PAPER TOWEL DISPENSER, WALL MOUNTED TRASH CAN AND SOAP DISPENSER.

Q15 REMOVE EXISTING SHELVING.

D16 REMOVE EXIST CONCRETE PAD COMPLETE FOR EXTENT INDICATED. PREPARE EXISTING SUBSTRATE TO

©1≯ REMOVE EXISTING CASEWORK, SINK, SHELVING AND ALL ASSOCIATED HARDWARE IN ITS ENTIRETY.

DEMOLISH SHED INCLUDING DOOR AND FRAME WITHIN PARTITION. PATCH AND REPAIR ADJACENT WALL AND CONCRETE SLAB WHERE WALLS REMOVED. PREPARE EXISTING SURFACE FOR NEW WORK

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DEMOLISH EXISTING EXTERIOR LOW BRICK WALL. PATCH AND REPAIR EXTERIOR BUILDING WALL TO REMAIN . PREPARE EXISTING SURFACES FOR NEW WORK.

### **DEMOLITION NOTES**

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START AND FABRICATION OF ANY

2. ALL EXISTING DIMENSIONS ARE APPROXIMATE (+/-). UNLESS NOTED OTHERWISE, ALL FLOOR PLAN DIMENSIONS ARE TO THE FACE OF GWB PARTITION.

3. ALL EXISTING CONDITIONS OR MATERIALS TO REMAIN AND/OR SALVAGED FOR REINSTALLATION SHALL BE PROTECTED FROM DAMAGE. ANY CONDITIONS OR MATERIALS DAMAGED BY CONTRACTOR OPERATIONS MUST BE REPAIRED BY THE CONTRACTOR SO THAT THE REPAIR IS IMPERCEPTIBLE.

4. ALL ITEMS NOT SPECIFICALLY IDENTIFIED FOR REMOVAL SHALL REMAIN.

5. SEE MEP DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE

6 AT AREAS WHERE EXISTING STOREFRONT SYSTEMS ARE REMOVED, CONTRACTOR TO SECURE AND PROTECT

OPENINGS WITH TEMPORARY PLYWOOD PARTITIONS AND PLASTIC SHEETING UNTIL NEW WORK IS COMPLETED. . WHERE THERE ARE CONFLICTS BETWEEN DEMOLISHED WORK AND NEW WORK. THE CONTRACTOR IS TO CONTACT THE ARCHITECT BEFORE PROCEEDING.

8. WHERE CEILINGS ARE TO BE DEMOLISHED, THE CONTRACTOR IS TO DEMOLISH ALL ASSOCIATED WORK, INCLUDING LIGHTS, REGISTERS, ACCESS PANELS ETC. UNLESS OTHERWISE NOTED. 9. WHERE WALLS ARE TO BE DEMOLISHED, THE CONTRACTOR IS TO DEMOLISH ALL ASSOCIATED WORK, INCLUDING

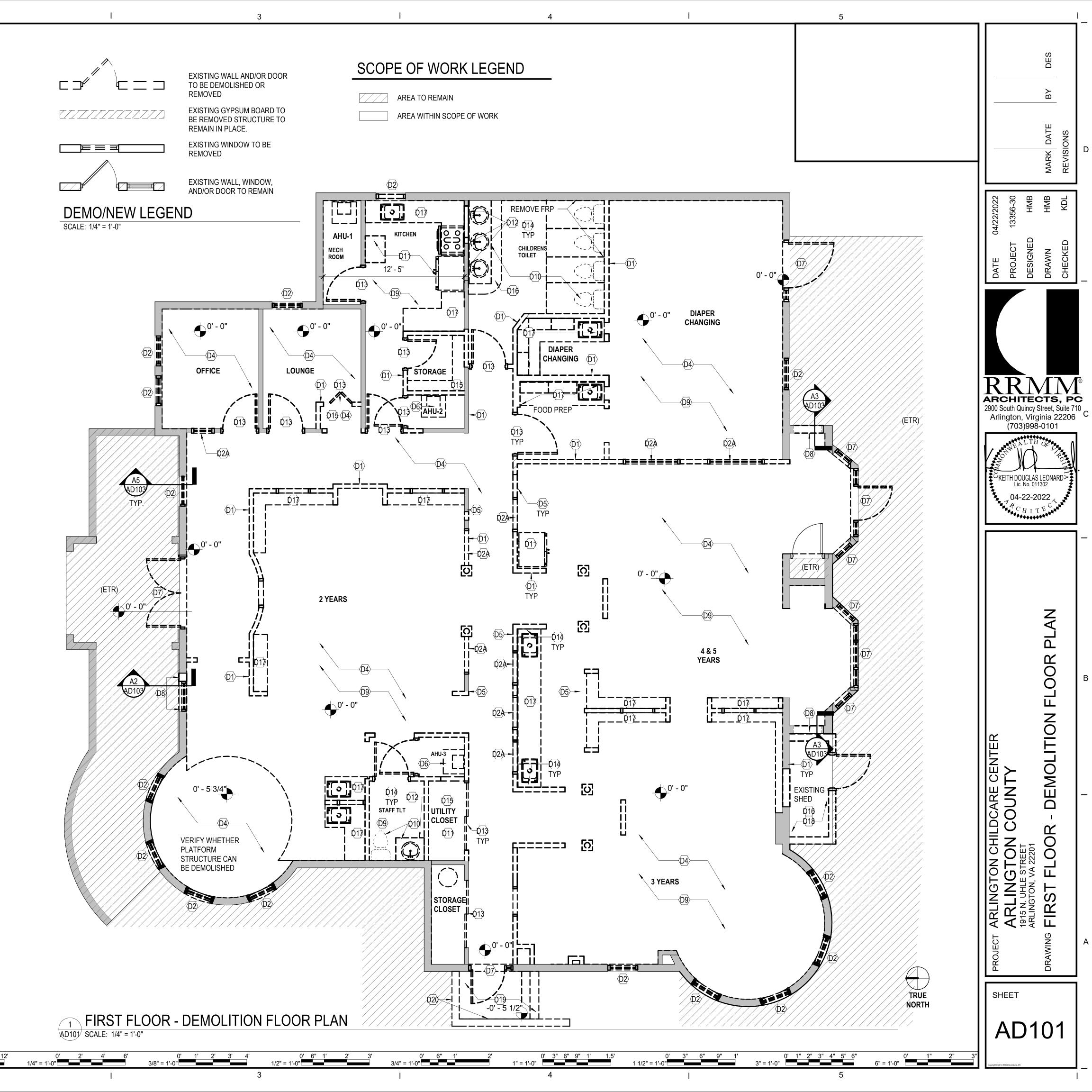
DOORS, FRAMES, MOUNTED ITEMS, ETC

10. PROVIDE ADEQUATE SUPPORT TO THE MECHANICAL, ELECTRICAL AND OTHER BUILDING ELEMENTS WHICH ARE

NOT PLANNED TO BE REMOVED BUT ARE ATTACHED TO ITEMS BEING REMOVED. 11. THE CONTRACTOR SHALL REMOVE EXISTING CONSTRUCTION AS INDICATED. THE CONTRACTOR SHALL PATCH AND

REPAIR ALL DISTURBED AREAS AS NECESSARY TO MATCH EXISTING CONSTRUCTION. 12. PROVIDE OPENINGS OF SUITABLE SIZE IN WALLS, CEILINGS AND FLOORS FOR INSTALLATION OF MECHANICAL, AND ELECTRICAL ITEMS. UPON COMPLETION OF SUCH WORK, CLOSE THESE OPENINGS AND FINISH TO MATCH ADJACENT SURFACES. COORDINATE WITH THE DRAWINGS OF OTHER DISCIPLINES TO DETERMINE THE EXTENT OF

SUCH WORK. 13. PROTECT EXISTING WORK WHICH IS SCHEDULED TO REMAIN IN PLACE. REPLACE/REPAIR WORK DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION AT THE TIME OF THE AWARD OF THE CONTRACT.



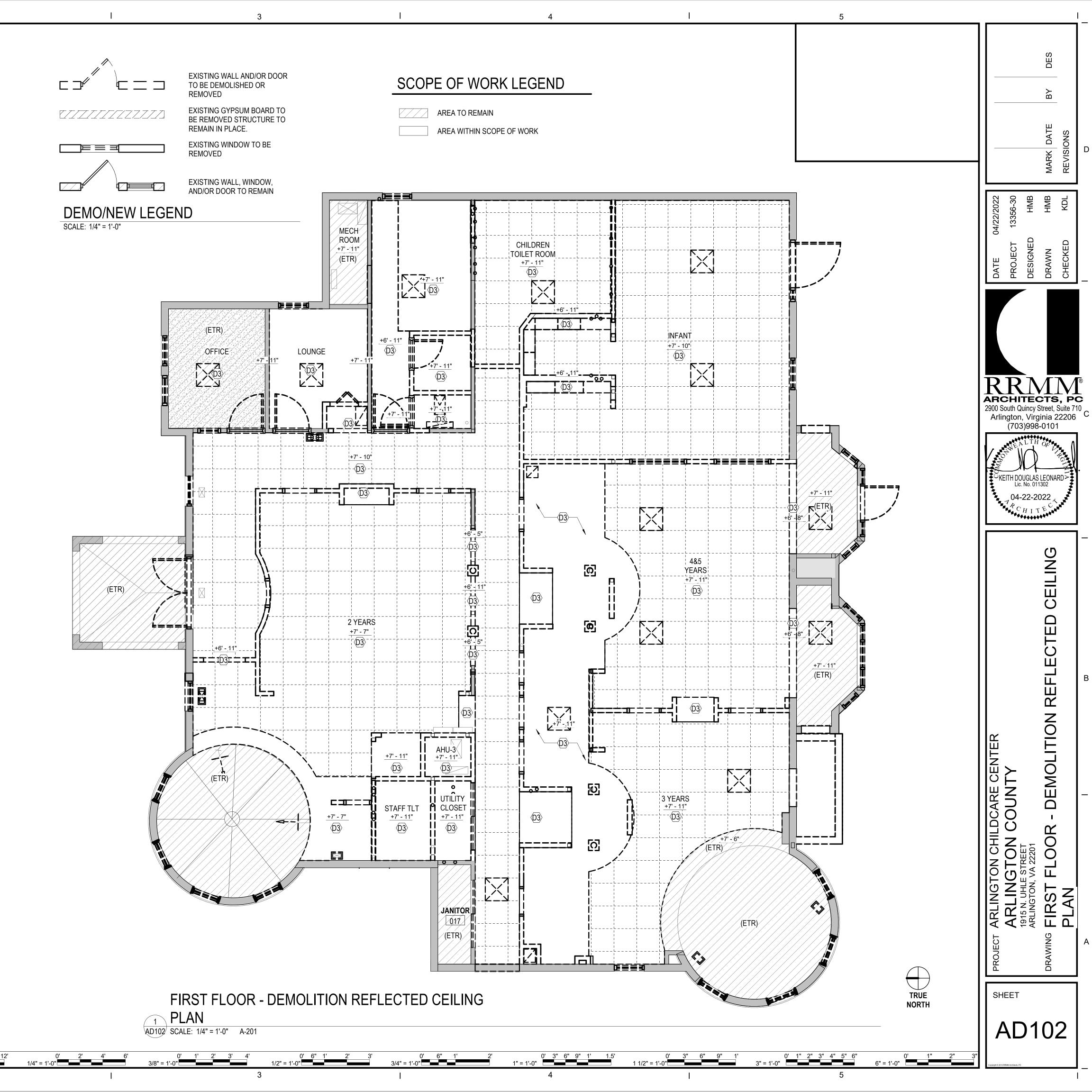
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- ♥17 REMOVE EXISTING CASEWORK, SINK, SHELVING AND ALL ASSOCIATED HARDWARE IN ITS ENTIRETY.
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### **DEMOLITION NOTES**

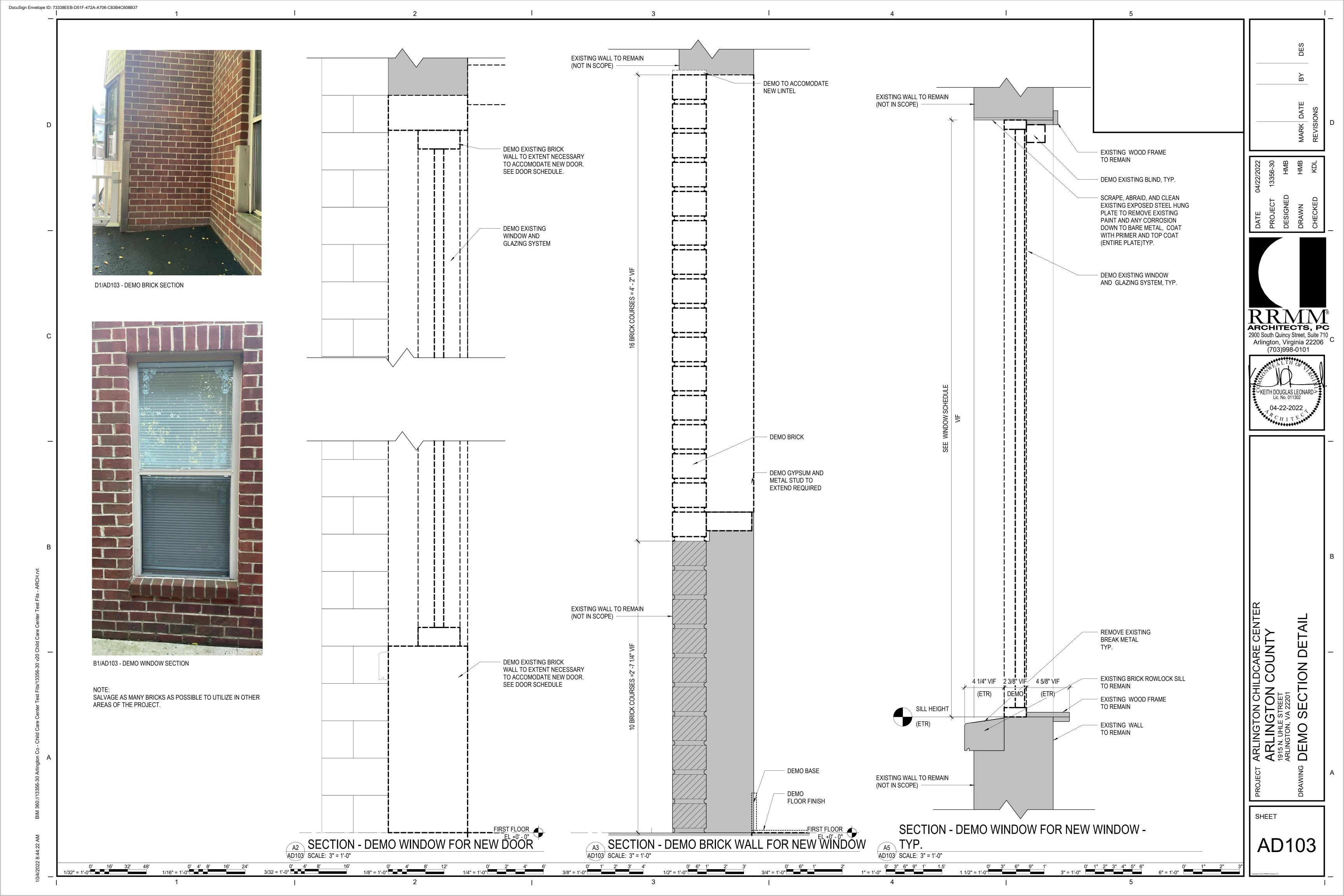
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- 5. SEE MEP DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE
- 6 AT AREAS WHERE EXISTING STOREFRONT SYSTEMS ARE REMOVED, CONTRACTOR TO SECURE AND PROTECT
- OPENINGS WITH TEMPORARY PLYWOOD PARTITIONS AND PLASTIC SHEETING UNTIL NEW WORK IS COMPLETED. 7. WHERE THERE ARE CONFLICTS BETWEEN DEMOLISHED WORK AND NEW WORK, THE CONTRACTOR IS TO CONTACT THE ARCHITECT BEFORE PROCEEDING.
- 8. WHERE CEILINGS ARE TO BE DEMOLISHED, THE CONTRACTOR IS TO DEMOLISH ALL ASSOCIATED WORK, INCLUDING LIGHTS, REGISTERS, ACCESS PANELS ETC. UNLESS OTHERWISE NOTED.
- 9. WHERE WALLS ARE TO BE DEMOLISHED, THE CONTRACTOR IS TO DEMOLISH ALL ASSOCIATED WORK, INCLUDING DOORS, FRAMES, MOUNTED ITEMS, ETC.
- 10. PROVIDE ADEQUATE SUPPORT TO THE MECHANICAL, ELECTRICAL AND OTHER BUILDING ELEMENTS WHICH ARE NOT PLANNED TO BE REMOVED BUT ARE ATTACHED TO ITEMS BEING REMOVED.
- 11. THE CONTRACTOR SHALL REMOVE EXISTING CONSTRUCTION AS INDICATED. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DISTURBED AREAS AS NECESSARY TO MATCH EXISTING CONSTRUCTION.
- 12. PROVIDE OPENINGS OF SUITABLE SIZE IN WALLS, CEILINGS AND FLOORS FOR INSTALLATION OF MECHANICAL, AND ELECTRICAL ITEMS. UPON COMPLETION OF SUCH WORK, CLOSE THESE OPENINGS AND FINISH TO MATCH ADJACENT SURFACES. COORDINATE WITH THE DRAWINGS OF OTHER DISCIPLINES TO DETERMINE THE EXTENT OF
- 13. PROTECT EXISTING WORK WHICH IS SCHEDULED TO REMAIN IN PLACE. REPLACE/REPAIR WORK DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION AT THE TIME OF THE AWARD OF THE CONTRACT.

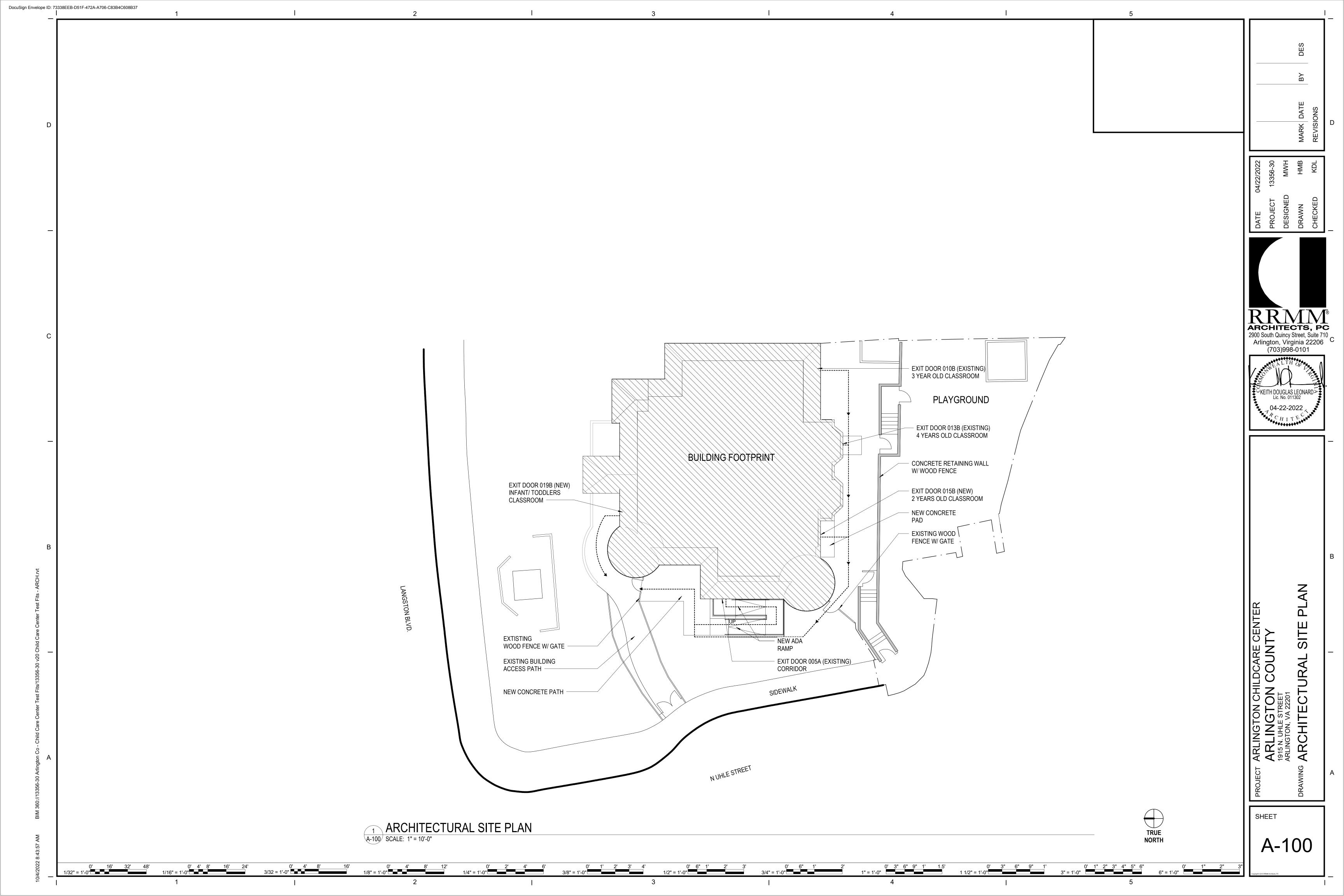


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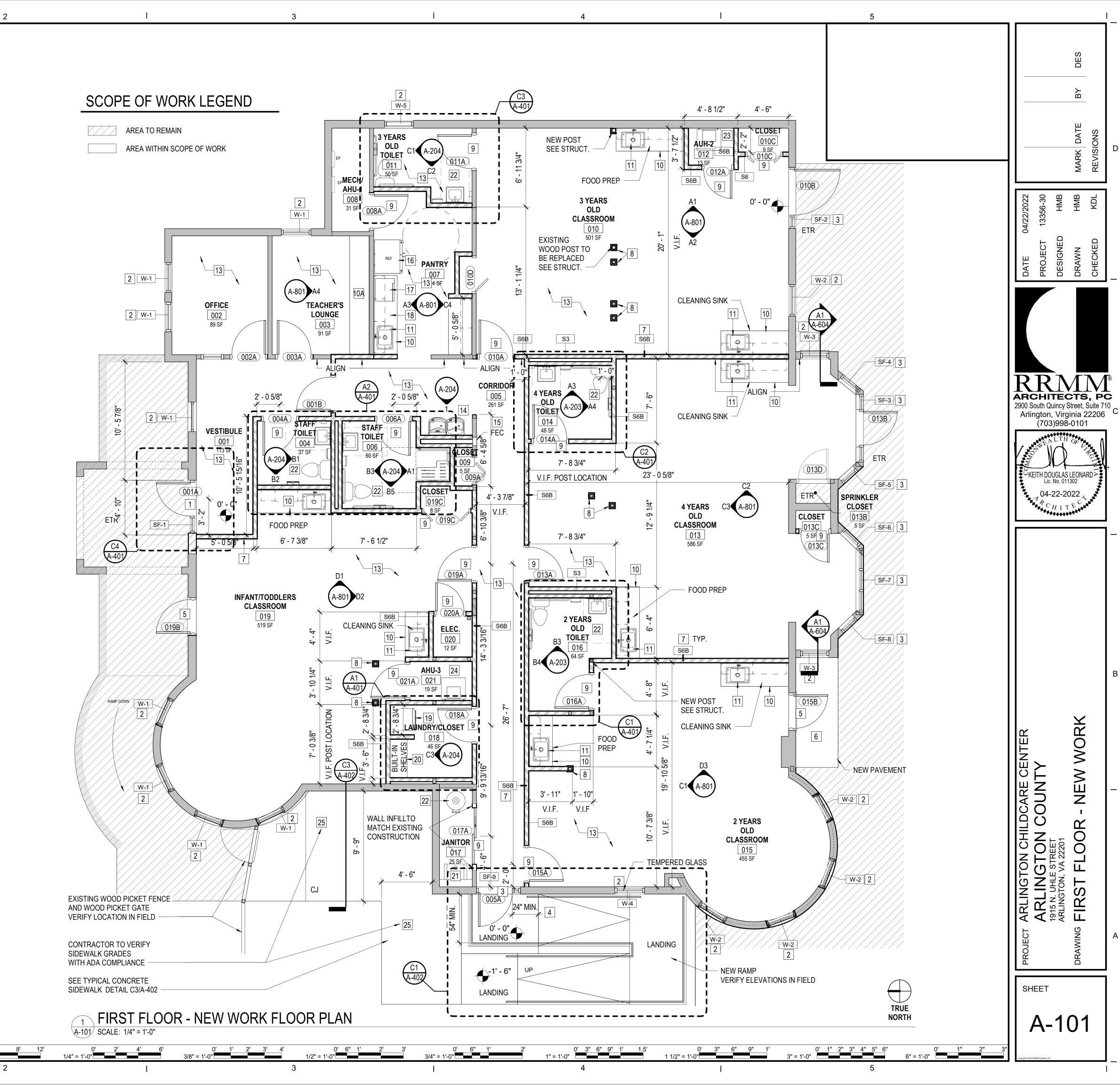




- 2 PROVIDE AND INSTALL NEW WINDOWS. SEE NEW WINDOW SCHEDULE
- REINSTALL ALUMINUM AND GLASS STOREFRONT SYSTEM. NEW SEALS, GASKETS, ETC.
- 4 PROVIDE AND INSTALL NEW EXTERIOR CONCRETE SLAB, RAMPS AND METAL HANDRAILS.
- PROVIDE AND INSTALL NEW EXTERIOR DOOR FRAME, DOOR AND DOOR HARDWARE. SEE DOOR SCHEDULE
- INSTALL NEW EXTERIOR CONCRETE SLAB
- PROVIDE AND INSTALL NEW INTERIOR WALLS. SEE WALL TYPE SCHEDULE FOR A DETAILED DESCRIPTION OF THE WALL ASSEMBLIES. SEE FINISH SCHEDULE.
- FUR OUT EXISTING COLUMNS. SEE WALL TYPE SCHEDULE
- PROVIDE AND INSTALL NEW INTERIOR DOOR FRAME, DOOR AND DOOR HARDWARE. SEE DOOR SCHEDULE
- PROVIDE AND INSTALL NEW BASE CABINETS, COUNTERTOP AND UPPER CABINETS, INCLUDING HARDWARE AT FOOD PREPARATION AREAS, CLEANING SINK AREAS AND PANTRY. COORDINATE PLUMBING FIXTURES AND ELECTRICAL DEVICES. SEE PLUMBING AND ELECTRICAL DRAWINGS AND FINISH SCHEDULE
- 10A PROVIDE AND INSTALL NEW COUNTER TOP
- PROVIDE AND INSTALL NEW SINKS WITH FAUCETS. SEE PLUMBING DRAWINGS
- PROVIDE AND INSTALL NEW PLUMBING FIXTURES AND TOILET ACCESSORIES. SEE PLUMBING DRAWINGS AND TOILET ACCESSORIES SCHEDULE
- PROVIDE AND INSTALL NEW FLOORING. SEE FINISH SCHEDULE
- PROVIDE AND INSTALL NEW WATER COOLER/WATER BOTTLE FILLING STATION. SEE PLUMBING DRAWINGS
- PROVIDE AND INSTALL NEW RECESSED FIRE EXTINGUISHER CABINET. SEE FIRE PROTECTION AND MEP DRAWINGS
- PROVIDE AND INSTALL NEW REFRIGERATOR. GENERAL ELECTRIC MODEL GFE24JYKFS
- PROVIDE AND INSTALL NEW COUNTERTOP MICROWAVE. GENERAL ELECTRIC MODEL JES1657SMSS
- PROVIDE AND INSTALL NEW DISHWASHER. GENERAL ELECTRIC MODEL GDT225SSLSS
- PROVIDE AND INSTALL NEW STACK WASHER AND DRYER. GENERAL ELECTRIC MODEL GUD27EESNWW
- PROVIDE AND INSTALL NEW BUILT-IN SHELVES
- PROVIDE AND INSTALL NEW SERVICE SINK WITH FAUCET, MOP HOLDER AND HOOKS. SEE PLUMBING DRAWINGS AND TOILET ACCESSORIES SCHEDULE
- PROVIDE AND INSTALL NEW WATER HEATER. SEE PLUMBING DRAWINGS
- AIR HANDLING UNIT #2 TO BE RELOCATED. SEE MECHANICAL DRAWINGS AND NARRATIVE
- AIR HANDLING UNIT #3 TO BE RELOCATED. SEE MECHANICAL DRAWINGS AND NARRATIVE
- PROVIDE AND INSTALL NEW CONCRETE SIDEWALK TO ARLINGTON COUNTY STANDARDS. JOINT TO EXISTING AT AN EXISTING JOINT WITH SMOOTH EVEN TRANSITION. VERIFY IN FIELD LOCATION OF EXISTING WOOD PICKET FENCE

### **NEW WORK GENERAL NOTES**

- PRIOR TO THE START OF WORK THE CONTRACTOR MUST FIELD VERIFY ALL OPENINGS AND CONDITIONS TO COORDINATE FRAME DIMENSIONS WITH ACTUAL OPENING. CONDITIONS MUST BE VERIFIED PRIOR TO FABRICATION OF STOREFRONT WINDOWS.
- 2. REFER TO STOREFRONT AND WINDOW SCHEDULES FOR ADDITIONAL DIMENSIONS AND OTHER INFORMATION THAT MAY NOT APPEAR ON PLANS
- 3. ANY EXTERIOR SOFFITS OR INTERIOR CEILINGS DAMAGED, OR REQUIRED TO BE REMOVED, DURING NEW WORK INSTALLATION SHALL BE REPAIRED BY THE CONTRACTOR SO THAT THE REPAIR IS IMPERCEPTIBLE
- 4. ALL WINDOWS TO RECEIVE NEW WINDOW BLINDS AND NEW INTERIOR SOLID SURFACE SILLS U.N.O.
- 5. CONTRACTOR SHALL PROVIDE ANY REMEDIAL WORK REQUIRED BY EXTERIOR WALLS AND STEEL LINTELS BEFORE INSTALLING EXISTING STOREFRONT AND NEW WINDOWS.
- 6. CONTRACTOR SHALL COORDINATE BETWEEN ALL DESIGN DISCIPLINES AND CONSTRUCTION TRADES.
- 7. THE WORD "PROVIDE" SHALL MEAN CONTRACTOR TO SUPPLY, FURNISH, AND INSTALL COMPLETE WITH ALL PARTS, ACCESSORIES AND/OR SERVICES TO BE READY FOR ITS INTENDED USE.
- 8. DO NOT SCALE DRAWINGS. CONTACT ARCHITECT IMMEDIATELY WITH ANY DISCREPANCIES. VERIFY ALL DIMENSIONS
- 9. ALL EXISTING DIMENSIONS ARE APPROXIMATE (+/-). UNLESS OTHERWISE NOTED, ALL FLOOR PLAN DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF STUD PARTITION.
- 10. INSTALL ALL TRADES IN CONFORMANCE WITH ICC/ANSI A117.1 (2017) AND ADA STANDARDS FOR ACCESSIBLE DESIGN (2010). INSTALL ALL REQUIRED BLOCKING FOR ALL HANDICAP TOILET FIXTURES AND ACCESSORIES. INSTALLATION FOR GRAB BARS TO MEET OR EXCEED A MINIMUM 250# FORCE HORIZONTALLY AND VERTICALLY.
- 11. ELECTRICAL RECEPTACLES, SWITCHES, OUTLETS, ETC. SHALL NOT BE INSTALLED BACK TO BACK ON FIRE RESISTANCE RATED WALLS. THEY SHALL BE AT LEAST 24" APART OR PROTECTED BY OTHER MEANS AS REQUIRED BY SECTION 714.3.2 VIRGINIA CONSTRUCTION CODE, 2018.
- 12. THERE SHALL BE NO UNPROTECTED OPENINGS WITHIN FIRE RATED ASSEMBLIES. ALL DUCT PENETRATIONS SHALL BE PROTECTED WITH FIRE DAMPERS. EACH PENETRATION OF A FIRE RESISTANT RATED ASSEMBLY BY A PIPE, TUBE, WIRE, OR CONDUIT SHALL BE PROTECTED BY A THROUGH PENETRATION FIRE STOP SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTM E 814 OR UL 1479.
- 13. ALL VERTICAL FIRE RESISTANT RATED ASSEMBLIES SHALL BE IDENTIFIED BY SIGNAGE LOCATED ON THE ASSEMBLY ABOVE THE CEILING. SUCH SIGNAGE SHALL HAVE LETTERS NO SMALLER THAN ONE INCH IN HEIGHT THAT STATE "XX FIRE RATED BARRIER" ( "XX" EQUALS THE HOURLY RATING AND ADJUST "BARRIER" FOR THE PROPER RATED WALL ASSEMBLY). SIGNAGE SHALL BE PLACED AT HORIZONTAL INTERVALS OF 8 FEET



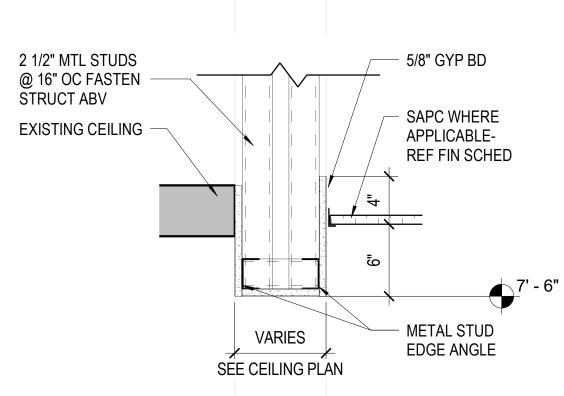
WORK

### NEW WORK KEY NOTES

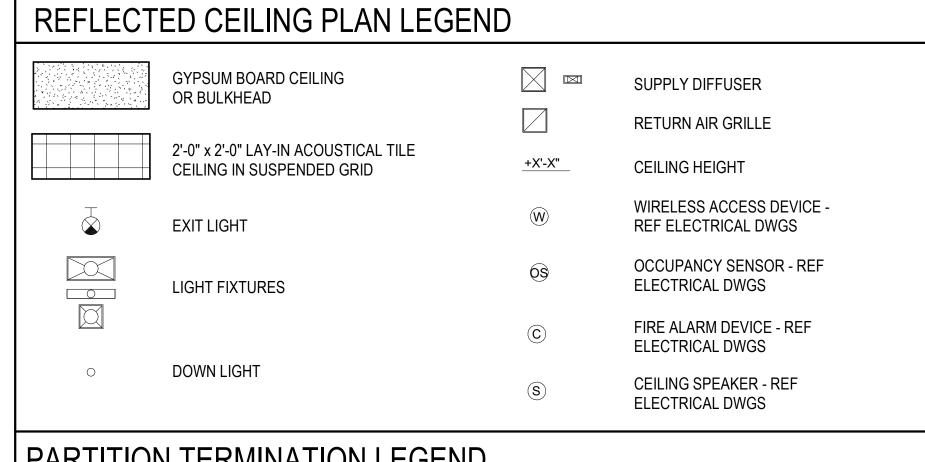
- PROVIDE AND INSTALL NEW 2'-0" X 2'-0" LAY-IN ACOUSTICAL TILE CEILING IN SUSPENDED GRID. SEE FINISH SCHEDULE
- PROVIDE AND INSTALL NEW GYPSUM BOARD CEILING OR BULKHEAD ON METAL STUD FRAMING. SEE FINISH SCHEDULE
- PROVIDE AND INSTALL NEW LIGHT FIXTURES. COORDINATE LOCATION WITH ACT GRID, MECHANICAL DEVICES AND SPRINKLER HEADS. SEE ELECTRICAL DRAWINGS
- PROVIDE AND INSTALL NEW OCCUPANCY SENSORS. SEE ELECTRICAL DRAWINGS
- PROVIDE AND INSTALL NEW CEILING MOUNTED EXIT SIGNS. SEE ELECTRICAL DRAWINGS
- 6 PROVIDE AND INSTALL CEILING MOUNTED AUDIO VISUAL FIRE ALARMS. SEE ELECTRICAL DRAWINGS
- 7 PROVIDE AND INSTALL NEW MECHANICAL AIR DEVICES. SEE MECHANICAL DRAWINGS

### NEW WORK GENERAL NOTES

- 1. PRIOR TO THE START OF WORK THE CONTRACTOR MUST FIELD VERIFY ALL CONDITIONS AND **DIMENSIONS**
- 2. ALL EXISTING DIMENSIONS ARE APPROXIMATE (+/-). UON, ALL FLOOR PLAN DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF GWB PARTITION
- 3. ANY EXTERIOR SOFFITS OR INTERIOR CEILINGS DAMAGED, OR REQUIRED TO BE REMOVED, DURING NEW WORK INSTALLATION SHALL BE REPAIRED BY THE CONTRACTOR SO THAT THE REPAIR IS IMPERCEPTIBLE
- 4. ALL ITEMS NOT SPECIFICALLY IDENTIFIED FOR REMOVAL SHALL REMAIN
- 5. ALL EXISTING GYPSUM CEILINGS TO REMAIN SHALL RECEIVE NEW PAINT. SEE FINISH SCHEDULE
- 6. LOCATION OF CEILING MOUNTED LIGHT FIXTURES, AIR DEVICES, ELECTRICAL AND FIRE PROTECTION DEVICES SHALL BE COORDINATED WITH SUSPENDED ACOUSTICAL CEILING GRID

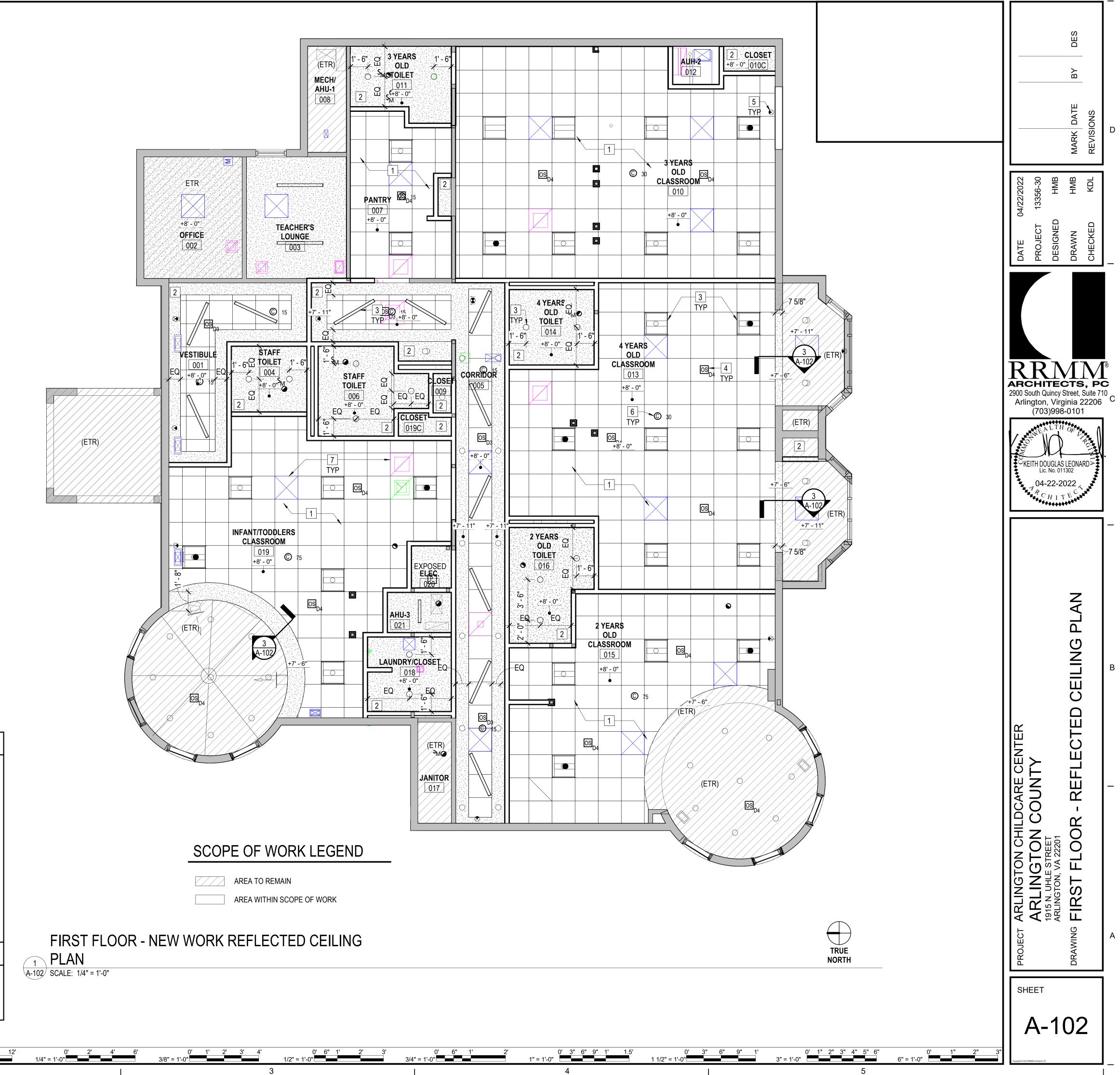






### PARTITION TERMINATION LEGEND

PARTITION WHICH PENETRATES THE CLG & TERMINATES 4" ABOV FINISHED CLG. UON PARTITION WHICH CONTINUES THROUGH CLG TO BOTTOM OF ROOF DECK ABV (UNLESS NOTED OTHERWISE) AT GYP BD PARTITION PROVIDE BATT INSUL IN VOIDS IN DECK FOR SOUND TRANSMISSION BLOCKING OR CONT SEALANT. REF PARTITION TYPE LEGEND ON A-0.1 FOR ADDITIONAL INFORMATION.



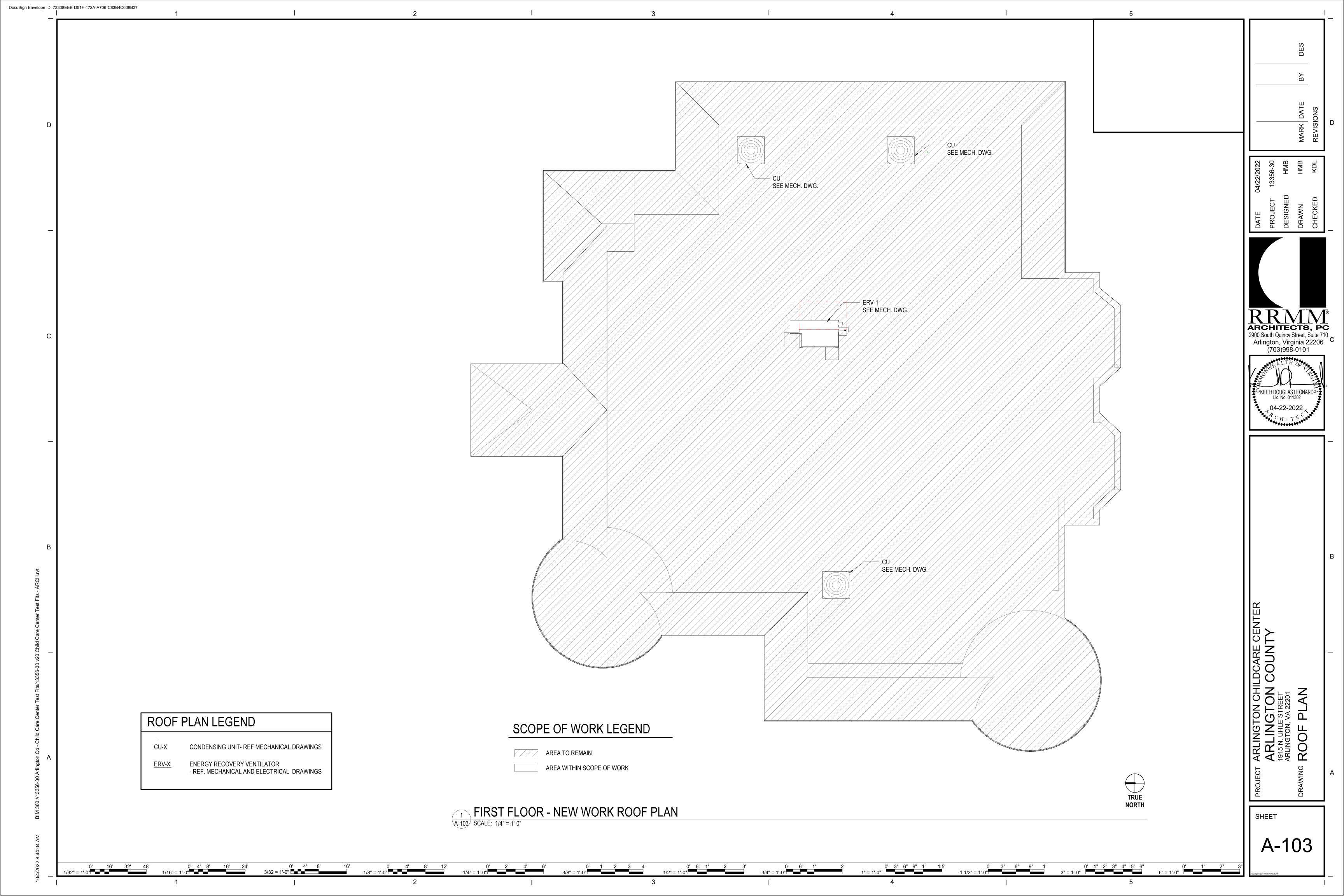
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<sub>\_\_</sub>04-22-2022 <sub>\_\_</sub>

CEILING

SHEET







**FIXTURE TYPES - ADULT** 

### FIXTURE TYPES -PEP / PRE-K / DAYCARE

EXPOSED SINK &

LAVATORY PIPES,

SEE | WALL MTD. LAVATORY

SPLIT REAR GRAB BAR PER ADA

COORDINATED DURING SHOP

CUSTOM GRAB BAR LENGTHS TO BE

604.5.2 EXCEPTION 2.

DRAWING REVIEW.

T3 REAR GRAB BAR

20" MIN AND 36"

MAX PER ADA 308.1

SURFACE MTD. LIQUID

VERTICAL GRAB BAR

1. WASHROOM ACCESSORY MOUNTING

BASIS OF DESIGN PRODUCT IS PROVIDED. IF PROVIDING ACCESSORIES FROM ANOTHER ACCEPTABLE MANUFACTURER,

CONTRACTOR TO ENSURE THAT INSTALLATION COMPLIES WITH ADA REQUIREMENTS FOR AGES 5 & UNDER.

FIXTURE TYPE NOTES:

SOAP DISPENSER

ADA 604.9

2' - 3"

NOTE: NO

CONSTRUCTION

FLOOR MTD. WATER

SIDE GRAB BAR

42" LONG U.N.O.

C<sub>I</sub>L OF LEFT

SPINDLE

SURFACE MTD. HORIZONTAL

TOILET PAPER DISPENSER

SURFACE MTD. TOWEL

BOTTOM OF GLASS MAX 40" PER ADA 603.3

TOILET ACCESSORY

A. TOILET ACCESSORY ITEMS ARE IDENTIFIED BY SYMBOL

C. REFER TO SPECS FOR ALL ACCESSORY DESCRIPTIONS.

E. TOILET DIMENSIONS ARE FROM FINISH TO FINISH, TYP.

AND RELATED WALL SUPPORTS, INCLUDING GRAB BARS.

J. REFER TO PLUMBING DWGS FOR ADDITIONAL REQUIREMENTS.

K. INSTALL WATERPROOFING MEMBRANE REFER TO SPEC.

L. USE SAME TILE PATTERN IN ALL NEW TOILET ROOMS.

COORDINATE ALL REVISIONS AS REQUIRED.

PIPING WITHIN AN EXTERIOR WALL.

X ON PLANS, LETTERS CORRESPOND TO SCHEDULE ABOVE.

D. ACTUAL DIMENSIONS MAY VARY WITH APPROVED MANUFACTURER.

F. SELF CLOSING DOORS TO HC STALLS W/ DOOR PULLS BOTH SIDES, TYP.

H. INSULATE ALL EXPOSED LAVATORY AND SINK PIPES AND INSULATE ALL

I. REFER TO TOILET FIXTURE AND TOILET ACCESSORY MOUNTING HEIGHT

G. FIELD VERIFY FINISH WALL DIMENSIONS BEFORE INSTALLING ACCESSORIES

B. GRAB BARS AND ACCESSORIES TO BE MOUNTED IN ACCORDANCE WITH

**GENERAL NOTES** 

CURRENT ANSI STANDARDS.

T12 MIRROR

DISPENSER

20" MIN AND 36"

PROVIDE TOWEL

SINKS AND LAVATORIES.

DISPENSERS @ ALL

MAX PER ADA 308.1

MAINTAIN CLEAR AREA OF 1'-1" ABOVE & 2" BELOW GRAB

**TOLERANCES** 

PLUMB CLOSET

MAINTAIN CLEAR AREA OF 1'-1" ABOVE & 2" BELOW GRAB

TOILET ACCESSORY SCHEDULE					
MARK	DESCRIPTION	MOUNTING HEIGHT	REMA		
 T1	42" GRAB BAR	REF LEGEND	2,4		
T2	36" GRAB BAR	REF LEGEND	3.4		
T4	TOILET TISSUE DISPENSER	REF LEGEND			
T5	SOAP DISPENSER	REF LEGEND			
T7	PAPER TOWEL DISPENSER	REF LEGEND	1		
T9	ROBE HOOK	REF LEGEND			
T10	WALL HUNG MOP/ BROOM HOLDER	REF LEGEND			
T11	18" VERTICAL GRAB BAR	REF LEGEND	5		
T12	MIRROR 24" X 36"	REF LEGEND			
T13	TWO-WALL SHOWER GRAB BAR	REF LEGEND			
T14	REVERSIBLE PHENOLIC SHOWER SEAT	REF LEGEND			

### ACCESSIBILITY GUIDELINES GENERAL NOTES

- 1. GRAB BARS DIAMETERS SHALL BE BETWEEN 1 1/4" AND 1 1/2" WITH A 1 1/2" CLEARANCE BETWEEN GRAB BARS AND ADJACENT SURFACES.
- 2. PROVIDE SOLID BLOCKING WHERE GRAB BARS OCCUR. INSTALL IN A MANNER TO ENSURE THE GRAB BARS WITHSTAND A MINIMUM 250 # DIRECT DOWNWARD FORCE.
- 3. PROVIDE SOLID BLOCKING FOR ALL TOILET ACCESSORIES INSTALLATION. COORDINATE WITH DRAWINGS FOR LOCATIONS.
- 4. THESE ACCESSIBILITY GUIDELINES ARE PROVIDED AS A CONVENIENCE TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL APPLICABLE HANDICAP ACCESSIBLE FIXTURES AND ACCESSORIES IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
- 5. THESE GUIDELINES ARE FOR LOCATING FIXTURES, ACCESSORIES, RECEPTACLES, AND SIGNAGE. FIXTURES, ACCESSORIES, RECEPTACLES, AND SIGNAGE ILLUSTRATED ARE GENERIC REPRESENTATIONS AND DO NOT IDENTIFY ACTUAL PROJECT FIXTURES, ACCESSORIES, RECEPTACLES, OR SIGNAGE. CONSULT CONTRACT DOCUMENTS FOR PROJECT REQUIREMENTS.

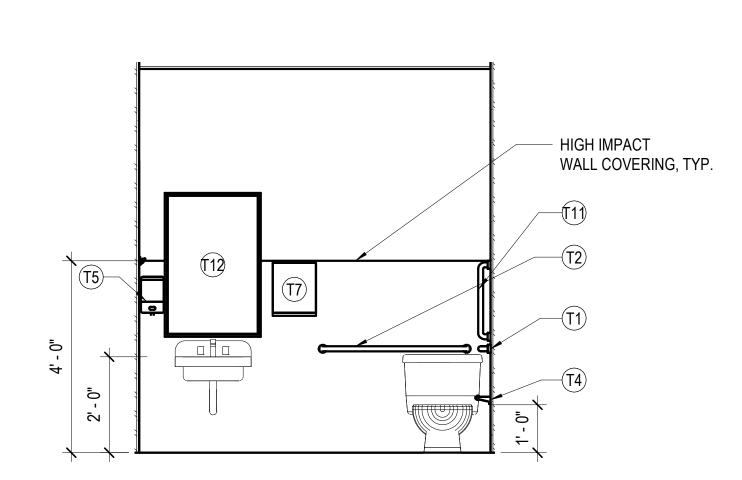
### TOILET ACCESSORY REMARKS

- 1. SS LIQUID SOAP DISPENSERS ARE CFCI.
- 2. MOUNT GRAB BAR ON WALL OR TOILET PARTITION AS I INDICATED, 12" CLEAR OF WALL WHICH RUNS BEHIND WATER CLOSET.
- 3. MOUNT GRAB BAR CLEAR OF TANK/FLUSH VALVE. HEIGHT MAY NEED TO BE DIFFERENT THAN INDICATED IN SCHEDULE. COORDINATE WITH PLUMBING FIXTURE PROVIDED. MOUNT 6" FROM FACE OF CONTIGUOUS WALL.
- 4. FIELD VERIFY FINISH WALL DIMENSION BEFORE INSTALLING GRAB BAR AND RELATED WALL SUPPORTS.
- 5. MOUNT BOTTOM OF VERTICAL GRAB BAR 3" ABOVE HORIZONTAL GRAB BAR.

# HIGH IMPACT WALLCOVERING, TYP

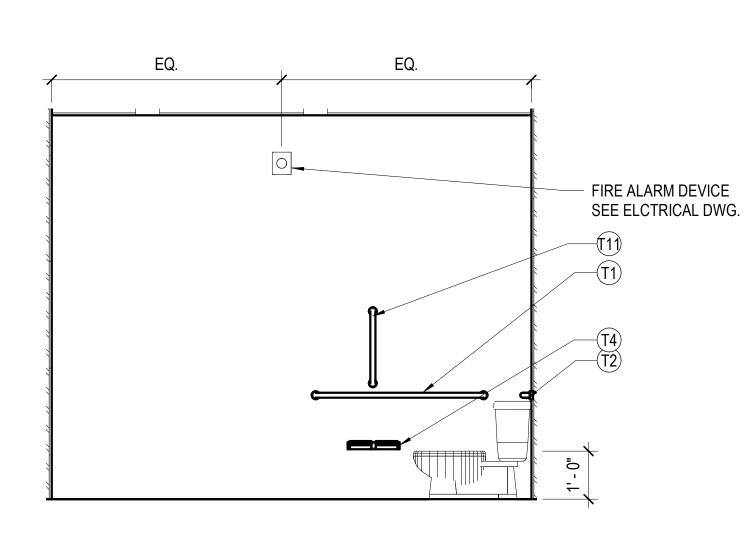
B3 2 YEARS OLD RESTROOM ELEV A

A-203 SCALE: 1/2" = 1'-0"

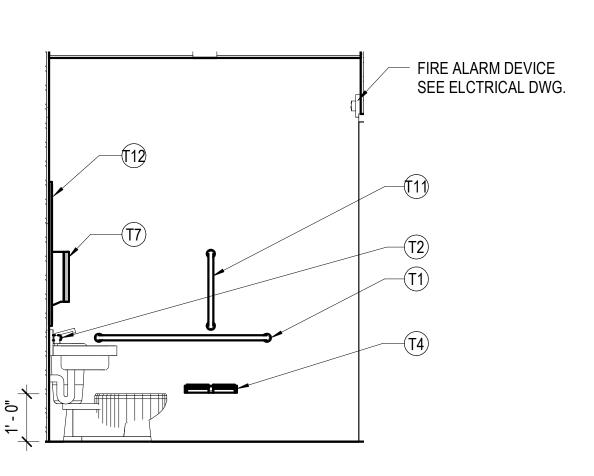


A3 4 YEARS OLD RESTROOM ELEV A

A-203 SCALE: 1/2" = 1'-0"



B4 2 YEARS OLD RESTROOM ELEV B
A-203 SCALE: 1/2" = 1'-0"



4 YEARS OLD RESTROOM ELEV B A-203 SCALE: 1/2" = 1'-0"

18" GRAB 1. WASHROOM ACCESSORY MOUNTING LOCATIONS ASSUME THE SPECIFIED

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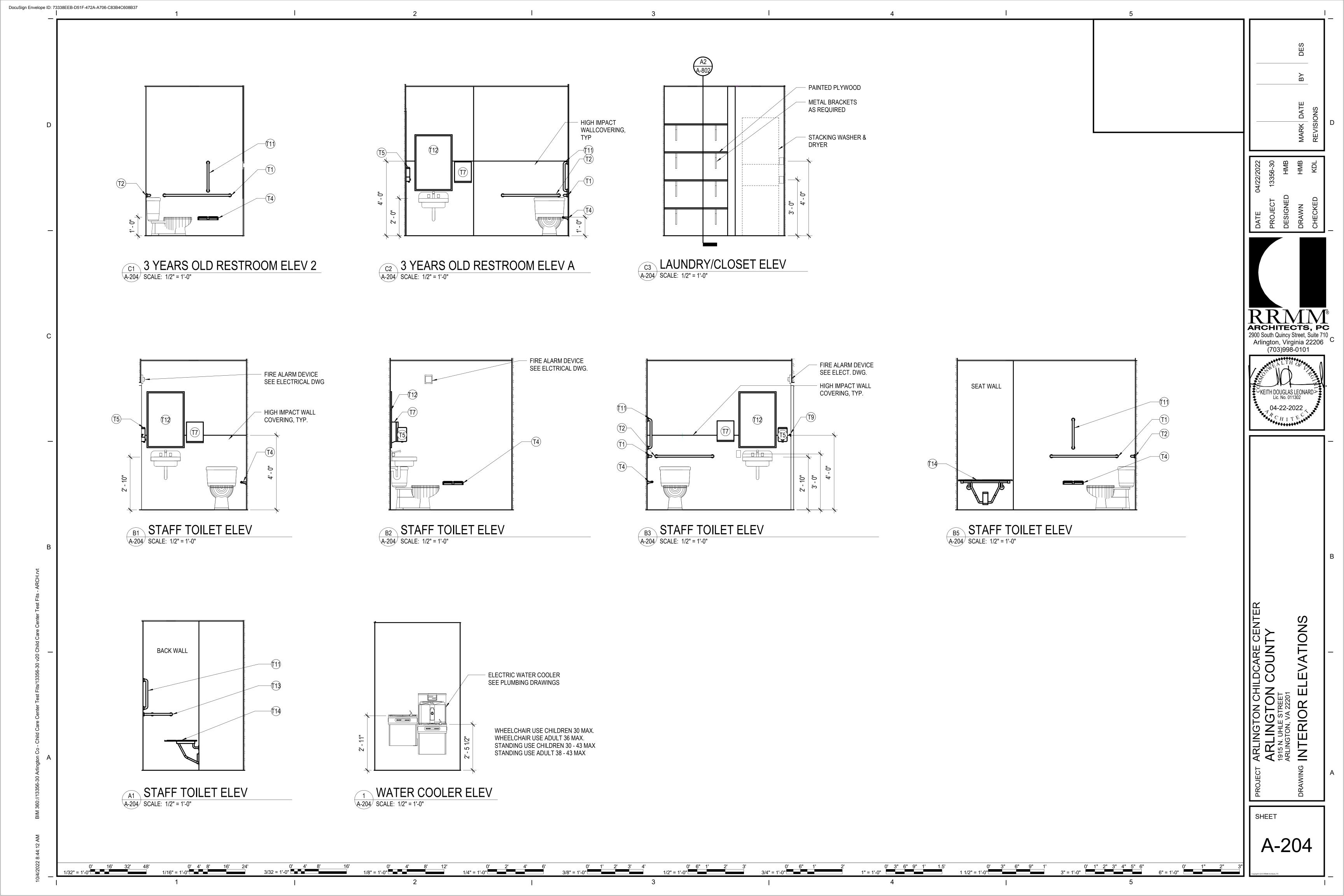
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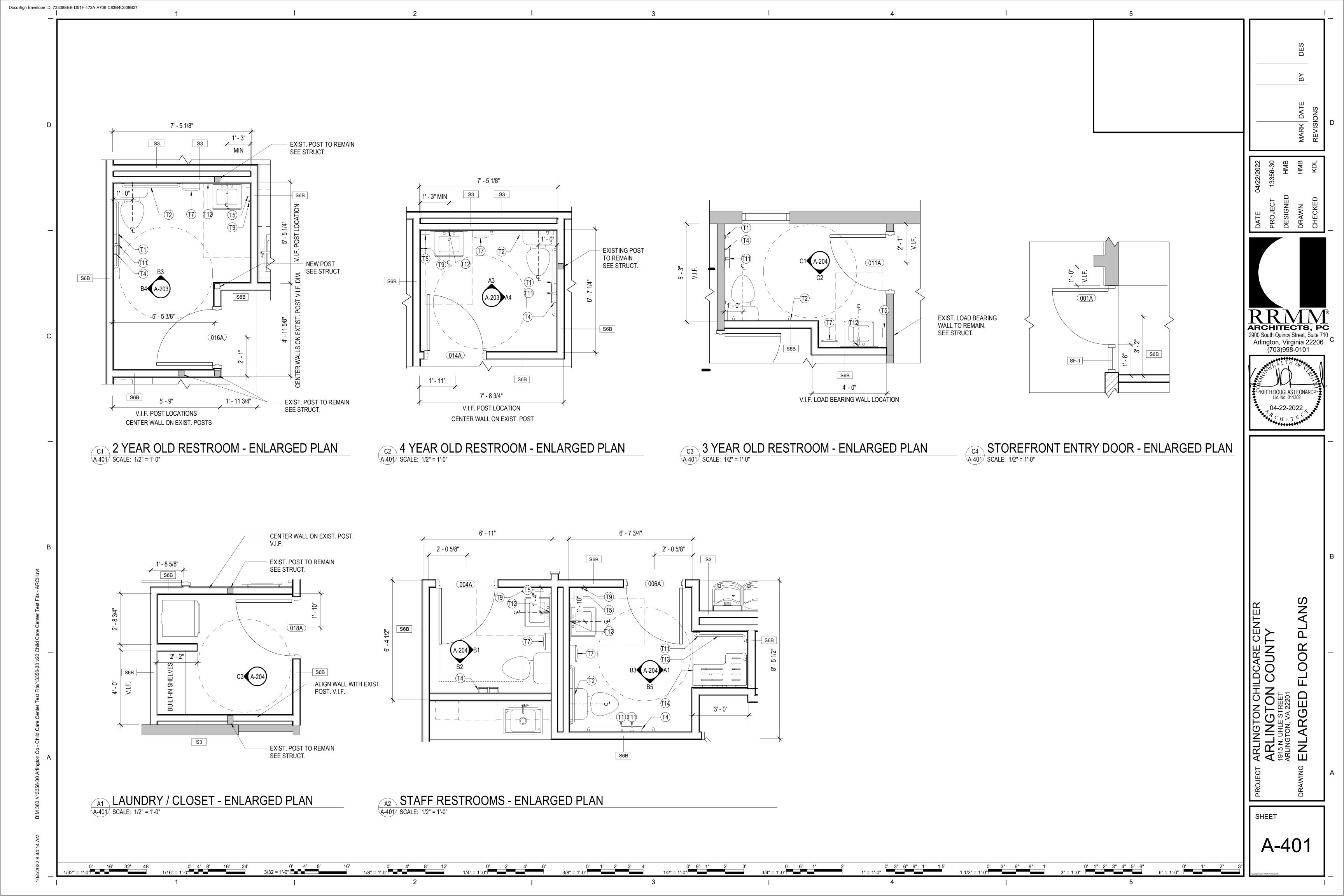
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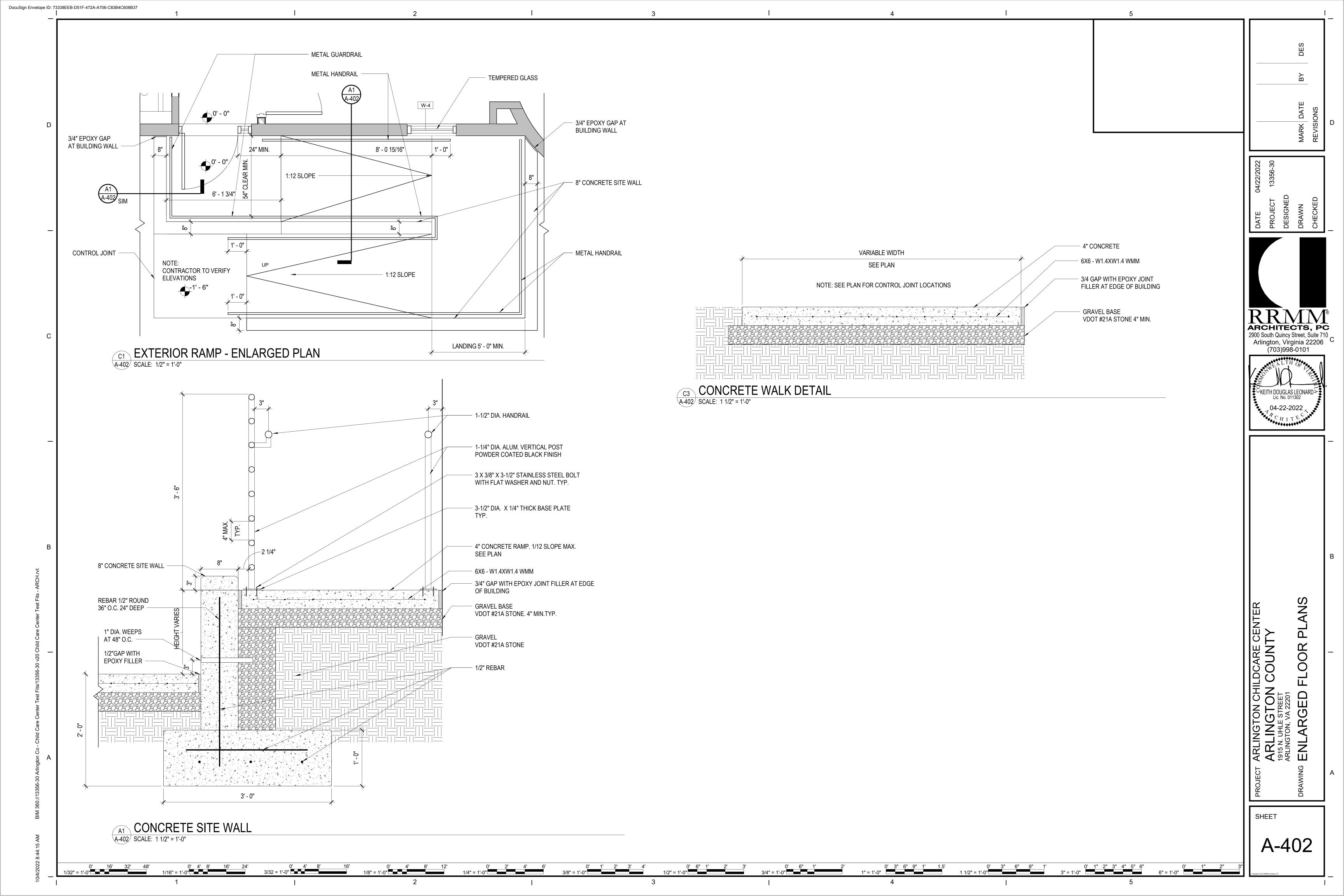
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RB2

PT1

PT1

PT1

### **GENERAL FINISH NOTES**

021

- A. THE FINISH SCHEDULE INDICATES ONLY THE BASIC OR PREDOMINANT SURFACE FINISHES OF EACH SPACE. REFER TO KEYNOTES, DETAILS, ELEVATIONS, RCP'S AND FINISH PLANS FOR THE FULL RANGE AND EXTENT OF FINISHES REQUIRED TO COMPLETE THE WORK FOR EACH SPACE.
- B. CONTRACTOR TO CHECK AND COORDINATE LEAD TIMES AND REQUIREMENTS FOR FINISHES REQUIRED TO COMPLETE THE WORK FOR EACH SPACE.
- C. PAINT GWB WALLS IN EGGSHELL FINISH AND ALL DOOR FRAMES AND MISCELLANEOUS TRIM IN SEMI-GLOSS FINISH, U.O.N.
- D. PAINT CMU WALLS IN SEMI-GLOSS FINISH, U.O.N.
- E. FOR AREAS WITH CEILINGS NOTED AS 'EXP/PTX' PROVIDE FLAT FINISH PAINT IN COLOR AS INDICATED ON THE FINISH SCHEDULE, U.O.N
- F. REFER TO CASEWORK ELEVATIONS AND DETAILS FOR PLASTIC LAMINATE OR SOLID SURFACE MATERIAL COLOR PLACEMENT.
- G. ALL HOLLOW METAL DOORS AND DOOR FRAMES TO BE PAINTED PT2.
- H. PAINT ALL GWB SOFFITS AND BULKHEADS PT1, U.O.N.
- I. SEE REFLECTED CEILING PLANS FOR LOCATION AND EXTENT OF DIFFERING CEILING MATERIALS.
- J. PROVIDE WB1 AT ALL EXTERIOR WINDOWS IN THIS SPACE.
- K. PROVIDE SSM2 AT ALL WINDOW STOOLS.

### FINISH SCHEDULE NOTES

PT1

1. PROVIDE 4'-0H x 8'-0W SHEET OF HIW AT WALLS INDICATED ON FINISH PLANS. PROVIDE COLOR MATCH TOP CAP AND ANY TRIM UNITS AS REQUIRED.

EXP

- 2. PROVIDE EPOXY PAINT THIS ROOM.
- 3. PROVIDE FLOOR PATTERN. REFER TO SHEET A-701 FOR FOR INFORMATION.
- 4. PROVIDE ACCENT PAINT THIS ROOM. REFER TO SHEET A-701 FOR LOCATIONS.

			FINISH LEGEND		
SYMBOL	PRODUCT	MANUFACTURER	PRODUCT # / STYLE	COLOR	NOTES
FLOOR					
CPT1 LVT1	CARPET LUXURY VINYL TILE	MANNINGTON PATCRAFT	FRENEMY; STOCK BRIGHTS I336V WOOD PLANX	IPO 11295 00160 HAZEL OAK	24" x 24" INSTALL ASHLAR 9" x 48"; 5MM; INSTALL STAGGER
LVT2	LUXURY VINYL TILE	PATCRAFT	I314V METALLIX RECTANGLE	00650 MOLTEN ORANGE	12" x 24"; 5MM; INSTALL STAGGER
LVT3	LUXURY VINYL TILE	PATCRAFT	I314V METALLIX RECTANGLE	00450 STEEL BLUE	12" x 24"; 5MM; INSTALL STAGGER
LVT4	LUXURY VINYL TILE	PATCRAFT	I314V METALLIX RECTANGLE	00200 YELLOW OXIDE	12" x 24"; 5MM; INSTALL STAGGER
SC SV1	SEALED CONCRETE SHEET VINYL	 MANNINGTON	 REVEAL	SERENDIPITY DC305	4"H INTEGRAL COVE BASE PROVIDE COLOR MATCH WELDING ROD FOR HEAT WELDED SEAMS
BASE					
RB1	RESILIENT BASE	JOHNSONITE	BASEWORKS TS	TA2 SADDLEBROOK	4"H COVE; TO BE USED WITH LVT1-4
RB2	RESILIENT BASE	JOHNSONITE	BASEWORKS TS	48 GREY	4"H COVE; TO BE USED WITH CPT1
SVB1	SHEET VINYL BASE	MANNINGTON	REVEAL	SERENDIPITY DC305	4"H, PROVIDE COLOR MATCH CAULK AT TOP OF BASE
WALLS					
HIW1	HIGH IMPACT WALLCOVERING	C/S ACROVYN	ACROVYN 4000 RIGID SHEET	933 MISSION WHITE	.040" THICK; INSTALL RAILROAD 4'H X 8'W WITH COLOR MATCH TOP CAP AND TRIM
PT1	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW7551 GREEK VILLA (WHITE)	
PT2	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW7066 GRAY MATTERS (TRIM)	
PT3	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW6657 AMBER WAVE (ORANGE)	
PT4	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW6797 JAY BLUE (BLUE)	
PT5	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW9019 GOLDEN PLUMERIA (YELLOW)	
PT6	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW6717 LIME RICKEY (GREEN)	
CEILINGS					
ACT1	ACOUSTICAL CEILING TILE	ARMSTRONG	CANYON 1492 BEVELED TEGULAR	WHITE	24 x 24" TILE, 15/16" PRELUDE XL GRID COLOR WHITE
MISCELLAI	NEOUS				
PLAM1	PLASTIC LAMINATE	WILSONART		LANDMARK WOOD 7981K-12	WOOD GRAIN TO BE INSTALLED VERTICAL
PLAM2	PLASTIC LAMINATE	FORMICA		TBD	** SELECT GRAIN DIRECTION
SSM1	SOLID SURFACE MATERIAL	MEGANITE		SOUTH BEACH BOULDER 811A	COUNTERTOPS
SSM2	SOLID SURFACE MATERIAL	MEGANITE		SNOW WHITE 033A	WINDOW SILLS
WB1	WINDOW BLINDS	HUNTER DOUGLAS	H2TN ALUMINUM BLINDS	018 SATIN SILVER	2" HORIZONTAL ALUMINUN BLINDS;

A-601

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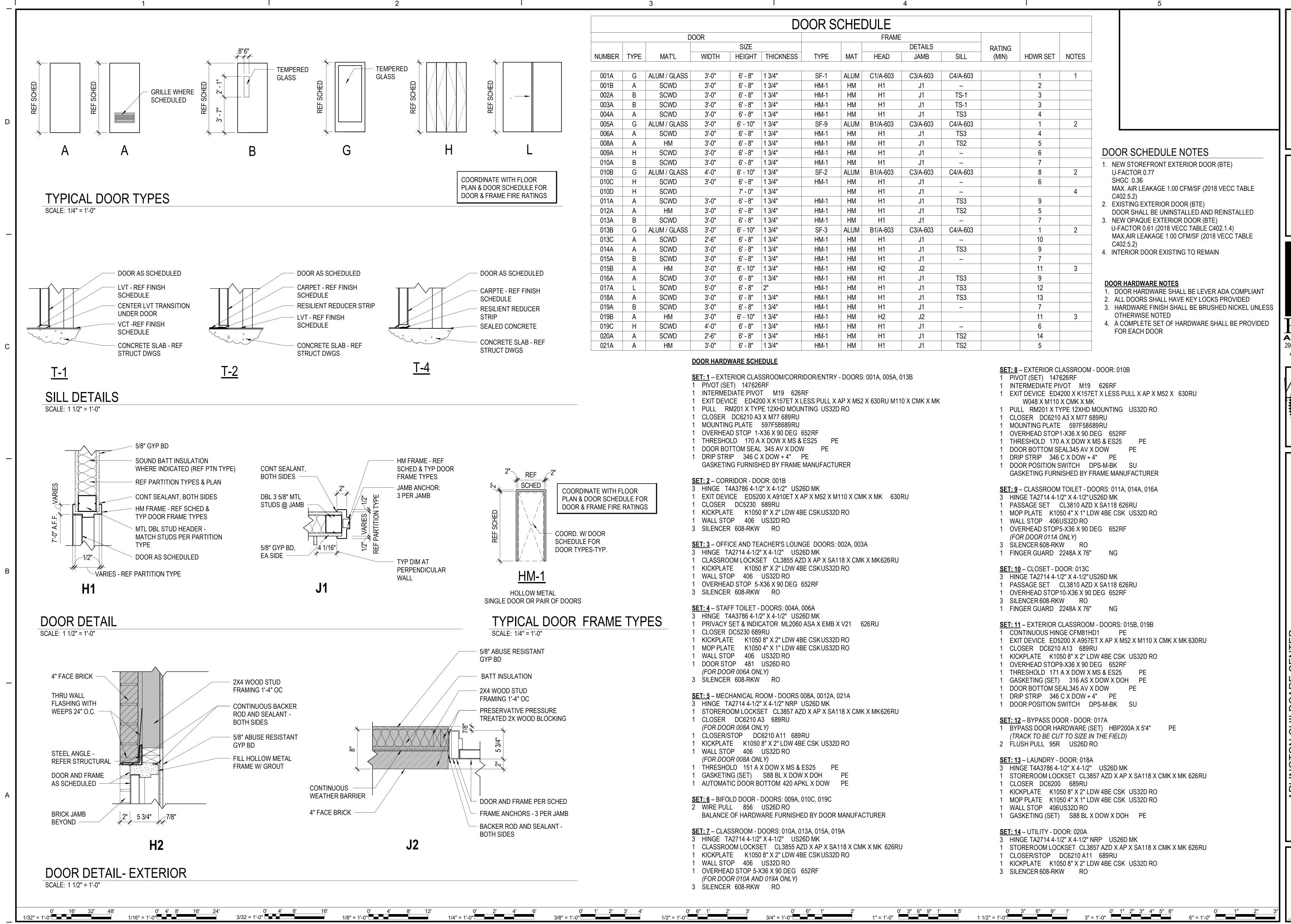
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KEITH DOUGLAS LEONARD Lic. No. 011302

<sub>\_\_</sub>04-22-2022 <sub>\_\_</sub>

AND NOTES



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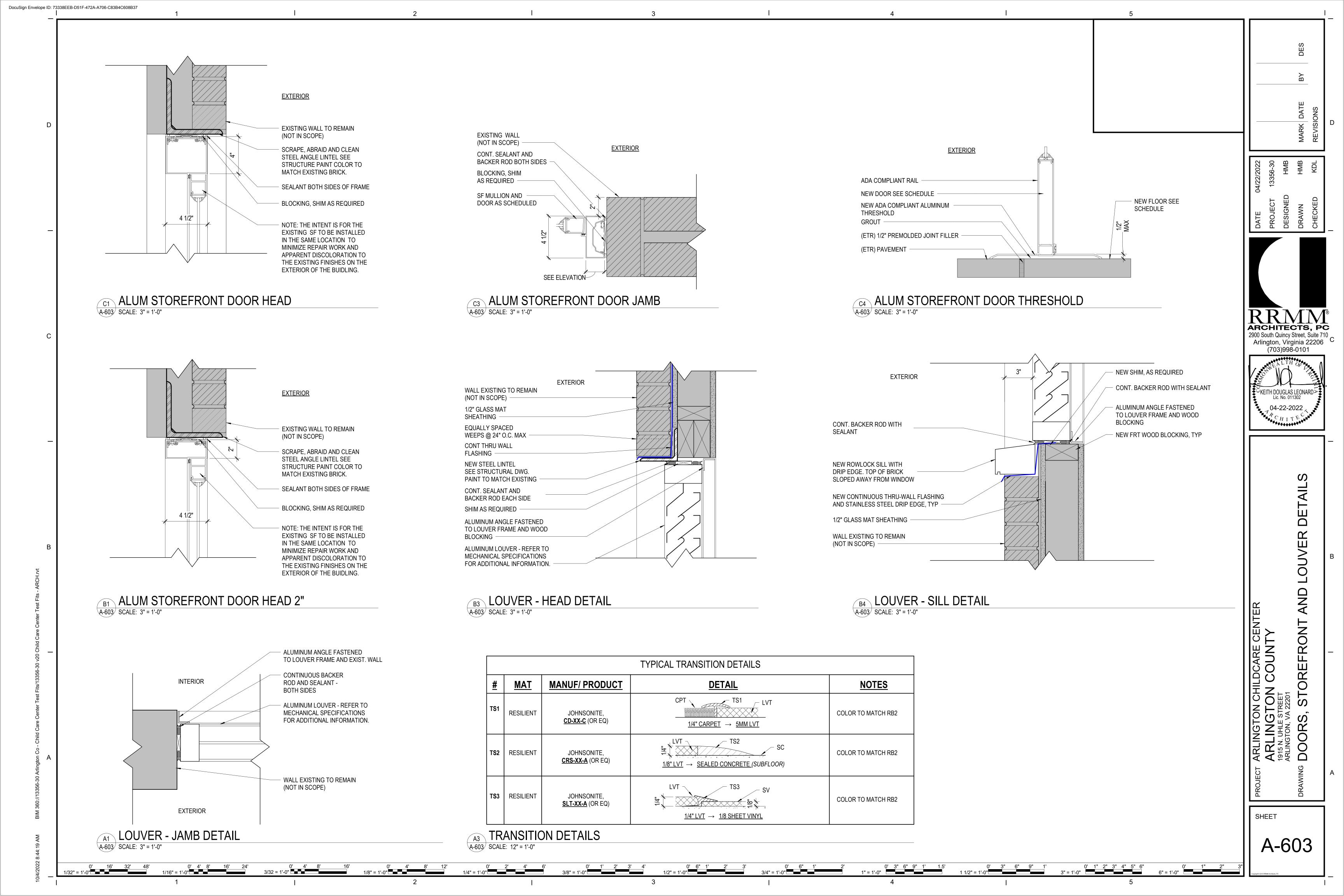
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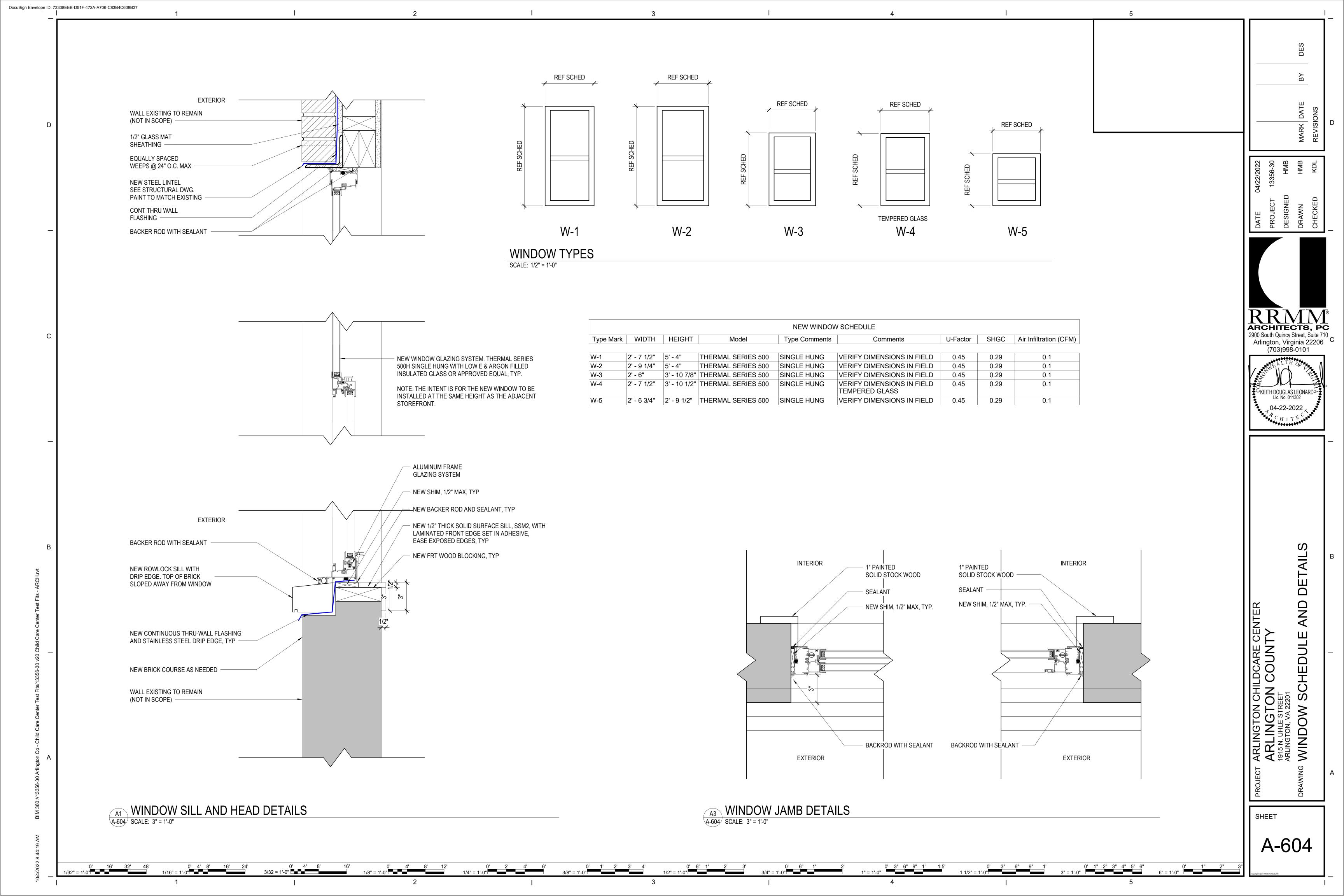
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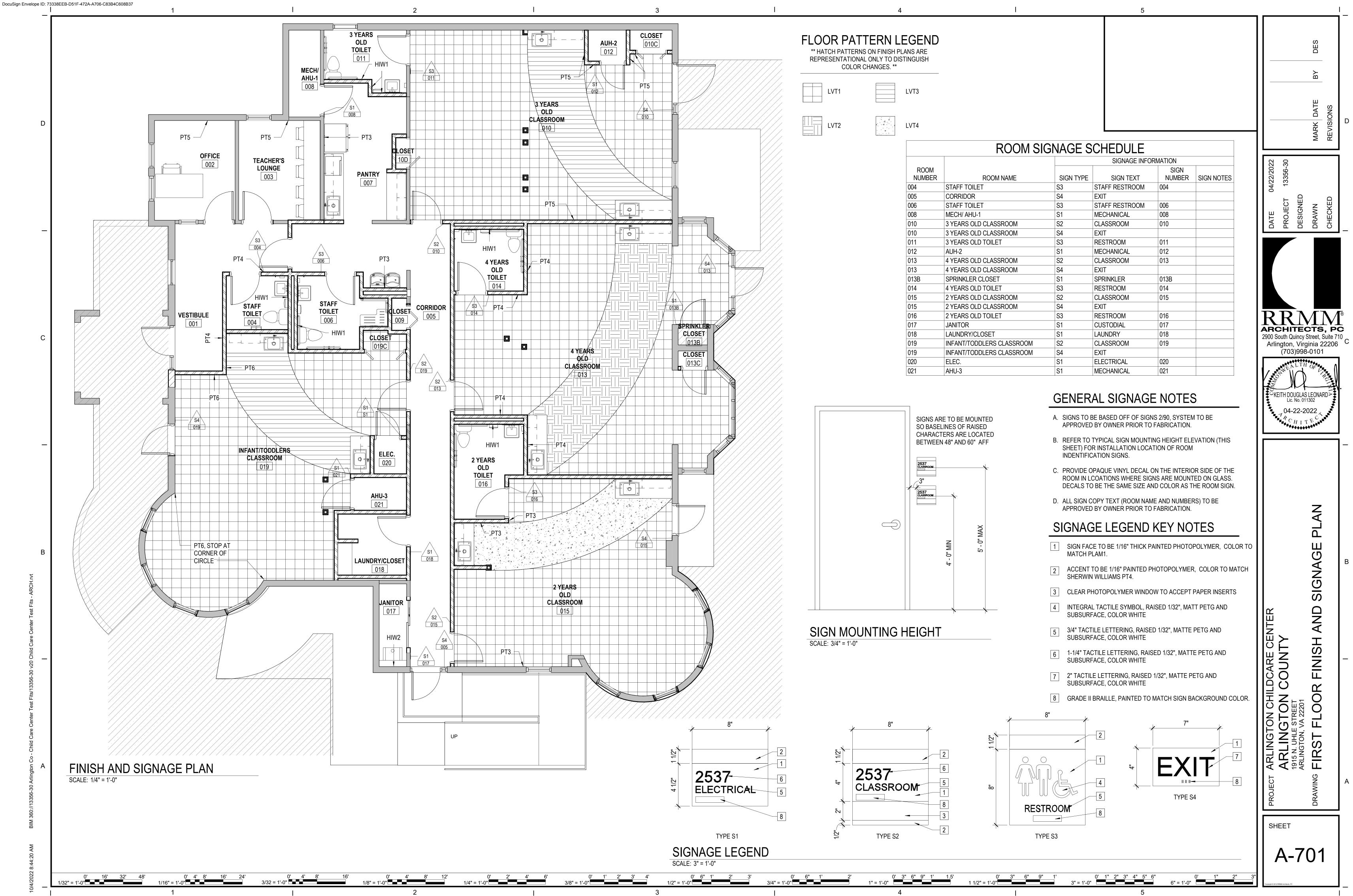
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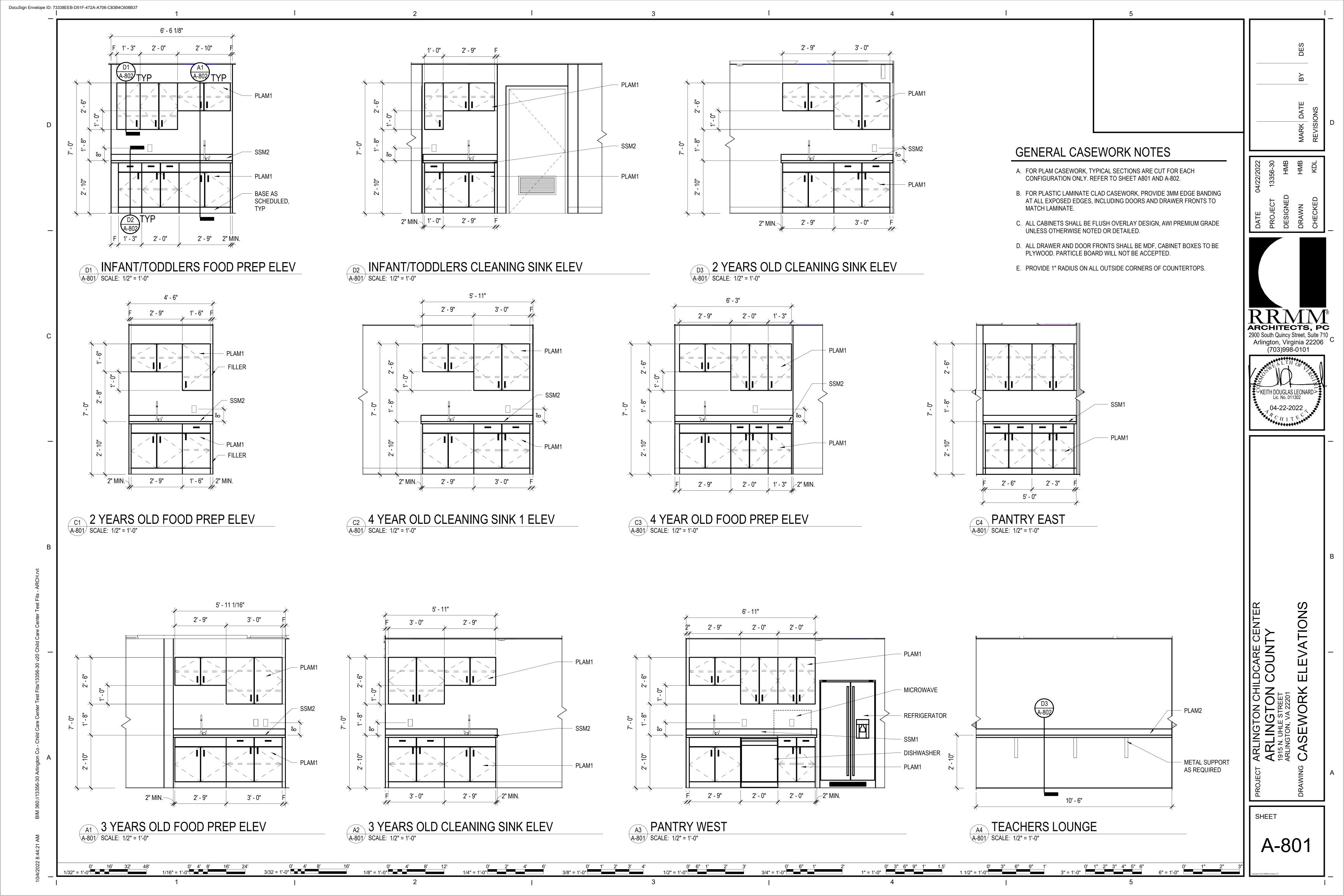


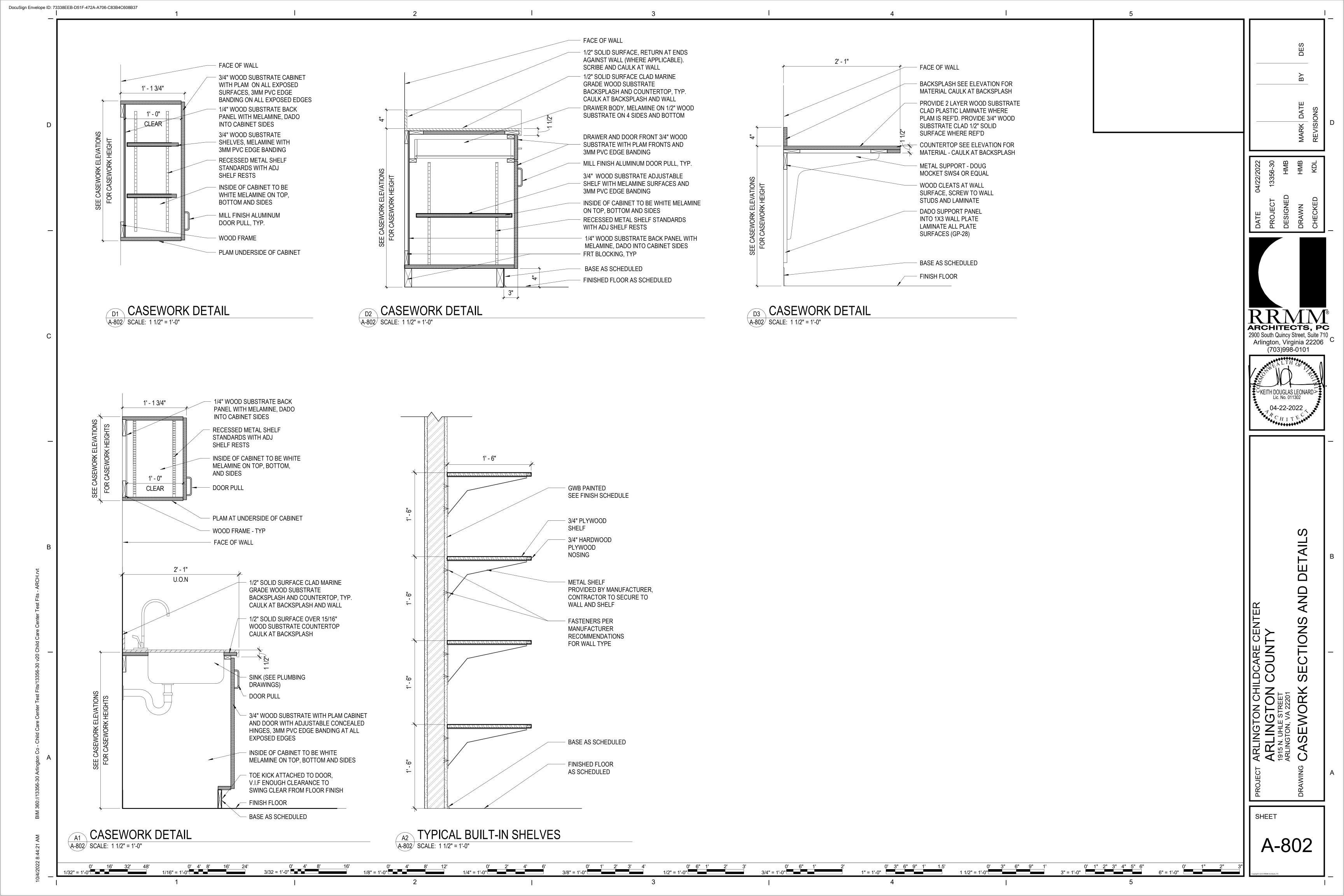
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SHEET





#### **ATTACHMENT C - SUPPLEMENTARY CONDITIONS**

The following items represent the Supplementary Conditions of the contract and shall be applied to this Project.

#### 1. PERMITS BY COUNTY:

The County will obtain and pay fees for the Building Construction Permit and Occupancy Permit. All other permits, including trade permits, shall be obtained and paid for by Contractor.

#### 2. CONSTRUCTION PROGRAM MANAGEMENT SYSTEM

The Contractor shall establish and maintain a web-based management system for reporting status and distribution of Contractor-developed documents. The management system shall be used to distribute all project documents i.e. submittals, requests for information (RFI's), proposed change orders (PCO's), approved change orders, weekly reports, weekly construction photos, Application for payments, meeting agendas, meeting minutes, schedules and updated schedules, Submittal, RFI and Change Order LOGS etc. The Contractor shall provide continuous access to the reporting system through an internet connection available to the County, Architect and other parties designated by the Project Officer, for purposes of hosting and managing Project communication and documentation until Final Completion.

a. Provide the following web-based Project software package: i.Submittal Exchange or approved equal

No project documents will be transmitted via email.

#### 3. CONSTRUCTION SCHEDULE

- a. Contractor shall prepare and distribute the project construction schedule after receiving the Notice to Proceed from the County.
  - Outline significant construction activities including major installations of work items, long lead items, milestones, substantial and final completion dates.

#### 4. PROJECT MEETINGS

Preconstruction Conference: The County will schedule and conduct a preconstruction conference before the contractor start of construction, at a time convenient to Contractor and Architect, at the period when the Contractor receive the Notice to Proceed from the County

a. Agenda: Discuss items of significance that could affect progress, including the following:

- i.Responsibilities and personnel assignments.
- ii. Tentative construction schedule.
- iii.Phasing.
- iv.Critical work sequencing and long lead items.
- v.Designation of key personnel and their duties.
- vi.Lines of communications.
- vii.Use of web-based Project software.
- viii. Procedures for processing field decisions and Change Orders.
- ix.Procedures for RFIs and Submittals
- x.Preparation of Record Documents.
- xi.Use of the premises and existing building.
- xii.Work restrictions.
- xiii.Working hours.

#### 5. PROJECT PROGRESS MEETINGS

General: Schedule and conduct meetings and conferences at Project site unless otherwise indicated.

- a. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times a minimum of 10 working days prior to meeting.
- b. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
- c. Minutes: The general contractor shall be responsible for conducting meeting and recording and distributing significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner and Architect, within three days of the meeting.

#### 6. CONSTRUCTION PHOTOGRAPHS

Engage a qualified photographer to take construction photographs with maximum depth of field and in focus.

Periodic Construction Photographs: Take 10 photographs weekly coinciding with the cutoff date associated with each Application for Payment. Select vantage points to show status of construction and progress since last photographs were taken.

Final Completion Construction Photographs: Take 20 photographs after date of Substantial Completion for submission as Project Record Documents. Owner will inform photographer of desired vantage points.

#### 7. INTENT OF THE DRAWINGS AND SPECIFICATIONS:

- a. Examination of Site: Bidders are required to visit the site, to inform themselves of all conditions including work to be performed by other contractors. Failure to visit the site in no way relieves the successful bidder from the necessity of furnishing any materials and/or performing any work that may be required to complete this project in accordance with Drawings and Specifications.
- b. Any doubt as to whether any work is within the scope of the contract shall be resolved in favor of an interpretation that the work is within the scope of the contract

#### 8. CHANGES IN THE WORK:

The allowable percentage markups for overhead and profits charge by the Contractor and sub-contractor as stated in the GENERAL CONDITIONS is the maximum percentage. Not all changes in the work will be approved for the maximum percentage markup. The contractor should substantiate in line item detail the labor hours

#### 9. SUBSTANTIAL COMPLETION PROCEDURES:

- a. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.
- b. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
- c. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Architect. Label with manufacturer's name and model number.
  - i.Schedule of Maintenance Material Items: Prepare and submit schedule of maintenance material submittal items, including name and quantity of each item and name and number of related Specification Section. Obtain Owner's signature for receipt of submittals.
  - ii. Submit testing, adjusting, and balancing records.
  - iii. Complete startup testing of systems and initial system commissioning.
  - iv.Submit a digital copy of the "as-built" building drawings as approved by the Project Officer and receive written approval from the A/E of Record that the drawings are complete.
  - v.Acceptance of HVAC system performance including Building Automation Controls by Arlington County are required.
  - vi.Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems as required by the documents.
  - vii.Submit a digital copy of operations and maintenance (O & M) manuals and warranties for review and to receive written approval from the A/E of Record that the manuals are complete.

- viii.After approval of O & M manuals and warranties by the A/E of Record, submit a digital copy and one printed folder with copies of operations and maintenance (O & M) manuals and all signed Warranties to the County representative.
  - ix. Submission of certificate of final inspection from city, county and/or state agencies in accord with applicable codes, laws and ordinances.
  - x. The Contractor is responsible for securing any (partial or full) occupancy permits required by local authorities. The County will pay for the approved occupancy permit
- xi. Complete final cleaning requirements.
- xii. Obtain inspection of fire protection system (sprinkler system) by the Fire Marshal's office and Owner's Insurance Rating Bureau plus correction of any deficiencies identified by Arlington County.
- xiii. Provide electrical systems fully operating, inspection and acceptance by appropriate authorities.
- xiv. All labeling shall be complete as required in the documents.
- xv. All safety devices shall be fully operational.
- d. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
  - i.Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
- e. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
  - i.Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

#### 10. FINAL COMPLETION PROCEDURES:

- a. Submittals Prior to Final Completion: Request final inspection for determining final completion, complete the following:
  - i. Submit a final Application for Payment
  - ii. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.

#### 11. TIME FOR COMPLETION

Owner Delay Accommodation: Contractor is to assume twenty (20) working days of 'Owner Delay', from the date of Notice to Proceed to date of Substantial Completion. The twenty (20) working days of Owner delay are the responsibility of the Contractor and shall be included as a component of the base contract. The contractor will not receive additional compensation monetarily nor by way of time extension, for the first twenty (20) working days of Owner Delay. To claim Owner delay, contractor must clearly indicate owner action or inaction on the critical path of the construction schedule. Additional Owner delay days beyond the twenty (20) working days indicated by this section will be dealt with as stipulated in the general conditions

The Contractor shall be entitled to an extension of time for changes only for the number of days which the Owner representative may determine to be necessary to complete such changes and only to the extent that such changes actually delay the completion of the Project, and that the contractor have strictly complied with the requirements of the Contract Documents and has clearly illustrated the effect of such delay on the Project's critical path. The burden of documentation lies with the Contractor.

The Contractor may only request additional monies for general conditions beyond the delay days allocated for in the Construction Documents and for delays demonstrated to be outside the Contractor's control. The allowable per day costs shall not exceed the amount indicated in the Contractor's Schedule of Values for the General Conditions divided by the number of contracted construction days. Requests for additional compensation associated with delays beyond the 20 Owner delay working days, shall not exceed an amount equal to the number of actual calendar days delayed multiplied by the allowable per day costs. Sub-contractors shall receive no additional general conditions

## 12. PUNCH LIST

The Contractor shall have thirty (30) days after the date of Substantial Completion to complete the work items contained in the Punch List. If the work is not completed within such thirty (30) day period, liquidated damages in the amount specified in the Invitation to Bid document will be deducted from the contract Sum until the date of Final Completion

The Owner may at any time, complete one or more items on the Punch List with its own forces or with such other contractors as it deems advisable and charge the account of the Contractor and its Surety thereof. This right of completion shall be in addition to, and not in lieu of, any remedy provided by another Section of these Contract Documents. In the event the Owner exercises its right hereunder to complete all items on a Punch List, the daily amount of liquidated damages shall not thereafter continue to be assessed for

that Punch List, although nothing herein shall be construed to eliminate or reduce the daily amount then accrued.

#### 13. STAGING OF BUILDING MATERIAL

No material will be staged on the public sidewalks

#### 14. PROTECTION OF NEW INSTALLED FINISHES

It is the responsibility of the contractor to protect the existing and new installed finish floor, walls, millwork and furnishings, at all times, until the completion of his construction. The contractor is responsible to replace, any or all, finishes that are damaged, chipped or scratched by the contractor or his sub-contractor. See also Specification Section 015000 Temporary Facilities and Controls on sheet  $\underline{\text{G-002}}$ 

## 15. <u>USE OF NEW BUILDING RESTROOM</u>

The new building restrooms shall not be utilized at any time by the contractor and sub-contractor's personnel. The contractor is responsible to provide an onsite temporary sanitary facility for use by the contractor and sub-contractor's personnel. See also Specification Section 015000 Temporary Facilities and Controls on sheet <u>G-002</u>

#### 16. SUBCONTRACTOR ACCEPTANCE:

As stated in General Conditions, article 13 a, the Contractor shall provide the names of proposed subcontractors for review by the Project Officer. The Project Officer may object for cause if a proposed subcontractor is deemed unfit or incompetent. The County requires the HVAC subcontractor demonstrate competence for this Project by providing training certification and a statement of experience demonstrating a minimum of one year's experience and successful completion of startup and commissioning of HVAC system and components.

## 17. COVID PROTOCOL FOR CONSTRUCTION SITE

The following restrictions and requirements must be in place at the construction job sites subject to this SCP Protocol:

- a. Comply with all applicable and current laws and regulations including but not limited to OSHA and VA-OSHA. If there is any conflict, difference, or discrepancy between or among applicable laws and regulations and/or this Protocol, the stricter standard shall apply.
- b. Designate a site-specific COVID-19 supervisor or supervisors to enforce this guidance. A designated COVID-19 supervisor must <u>be present on the construction site at all times</u> during construction activities. A COVID-19 supervisor may be an on-site worker who is designated to serve in this role.
- c. The COVID-19 supervisor must review this SCP Protocol with all workers and visitors to the construction site.

- d. Establish a daily screening protocol for arriving staff to ensure that potentially infected staff do not enter the construction site. If workers leave the jobsite and return the same day, establish a cleaning and decontamination protocol prior to entry and exit of the jobsite. Post the daily screening protocol at all entrances and exits to the jobsite. More information on screening can be found online at: <a href="https://www.cdc.gov/coronavirus/2019-ncov/community/index.html">https://www.cdc.gov/coronavirus/2019-ncov/community/index.html</a>.
- e. Practice social distancing by <u>maintaining a minimum six-foot distance between</u> <u>workers at all times</u>, except as strictly necessary to carry out a task associated with the construction project.
- f. In the event of a confirmed case of COVID-19 at the jobsite, the following must take place:
  - i. Immediately remove the infected individual from the jobsite with directions to seek medical care.
  - ii. Decontaminate and sanitize all surfaces at each location at which the infected worker was present. Provide those performing the decontamination and sanitization work with medical grade PPE, ensure the workers are trained in proper use of the PPE, require the workers to use the provided PPE, and prohibit any sharing of the PPE. Prohibit anyone from entering the possibly contaminated area, except those performing decontamination and sanitization work. Cease all work in these locations until decontamination and sanitization is complete.
  - iii. Each subcontractor, upon learning that one if its employees is infected, must notify the General Contractor and County representative immediately, and provide all of the information specified below. The General Contractor or other appropriate supervisor must notify the Public Health Department Communicable Disease Control (CD Control) immediately of every project site worker found to have a confirmed case of COVID-19, and provide all the information specified below. Follow all directives and complete any additional requirements by County health officials, including full compliance with any tracing efforts by the County.
- g. Information to be reported to CD Control regarding the jobsite:
  - i. Address of jobsite;
  - ii. Name of project, if any;
  - iii. Name of General Contractor; and
  - iv. General Contractor point of contact, role, phone number and email.
- h. Information to be reported to CD Control regarding the COVID-19 case(s):
  - i. First and last name;
  - ii. Date of birth;
  - iii. Phone;
  - iv. Date tested positive;
  - v. Date last worked:
  - vi. City of residence; and

- i. If the case is an employee of a subcontractor, please provide the following information:
  - i. Subcontractor;
  - ii. Subcontractor contact name;
  - iii. Subcontractor contact phone; and
  - iv. Subcontractor contact email.
- j. Information to be reported to CD Control regarding Close Contacts. For each reported case(s) above, please provide the following information (if you are reporting more than one positive case, please include the name of the positive case for each close contact):
  - i. Close contact's first and last name;
- ii. Phone;
- iii. City of residence; and
- iv. Positive case name.
- k. A "Close Contact" in the workplace is anyone who meets either of the following criteria:
  - i. Was within 6 feet of a person with COVID-19 for a period of time that adds up to at least 15 minutes in 24 hours, masked or unmasked, when that person was contagious. People with COVID-19 are considered contagious starting 48 hours before their symptoms began until 1) they haven't had a fever for at least 24 hours, 2) their symptoms have improved, AND 3) at least 10 days have passed since their symptoms began. If the person with COVID-19 never had symptoms, then they are considered contagious starting 48 hours before their test that confirmed they have COVID-19 until 10 days after the date of that test.

OR

- ii. Had direct contact for any amount of time with the body fluids and/or secretions of the Person With COVID-19 (for example, was coughed or sneezed on, shared utensils with, or was provided care or provided care for them without wearing a mask, gown, and gloves).
- I. Close contacts are high risk exposures and need to quarantine for a full 14 days due to the 14 day incubation period of the virus. Even if a close contact tests negative within 14 days of their last exposure to the case, they must continue quarantining the full 14 day period to prevent transmission of the virus.
  - i. Where construction work occurs within an occupied residential unit, separate work areas must be sealed off from the remainder of the unit with physical barriers such as plastic sheeting or closed doors sealed with tape to the extent feasible. If possible, workers must access the work area from an alternative entry/exit door to the entry/exit door used by residents. Available windows and exhaust fans must be used to ventilate the work area. If residents have access to the work area between workdays, the work

- area must be cleaned and sanitized at the beginning and at the end of workdays. Every effort must be taken to minimize contact between workers and residents, including <u>maintaining a minimum of six feet of social</u> distancing at all times.
- ii. Prohibit gatherings of any size on the jobsite, including gatherings for breaks or eating, except for meetings regarding compliance with this protocol or as strictly necessary to carry out a task associated with the construction project.
- iii. VA-OSHA requires employers to provide water, which should be provided in single-serve containers. Sharing of any of any food or beverage is strictly prohibited and if sharing is observed, the worker must be sent home for the day.
- iv. Utilize personal protective equipment (PPE) specifically for use in construction, including gloves, goggles, face shields, and face coverings as appropriate for the activity being performed. At no time may a contractor secure or use medical-grade PPE unless required due to the medical nature of a jobsite. Face coverings must be worn in compliance with Health Officer Order No. C19-12c, issued July 22, 2020, or any subsequently issued or amended order.
- v. Prohibit use of microwaves, water coolers, and other similar shared equipment except as allowed by the Social Distancing Protocol (Appendix A).
- vi. Strictly control "choke points" and "high-risk areas" where workers are unable to maintain six-foot social distancing and prohibit or limit use to ensure that six-foot distance can easily be maintained between individuals.
- vii. Minimize interactions and maintain social distancing with all site visitors, including delivery workers, design professional and other project consultants, government agency representatives, including building and fire inspectors, and residents at residential construction sites.
- viii. Stagger trades as necessary to reduce density and allow for easy maintenance of minimum six-foot separation.
- ix. Discourage workers from using others' work tools, and equipment. If more than one worker uses these items, the items must be cleaned and disinfected with disinfectants that are effective against COVID-19 in between use by each new worker. Prohibit sharing of PPE.
- x. If hand washing facilities are not available at the jobsite, place portable wash stations or hand sanitizers that are effective against COVID-19 at entrances to the jobsite and in multiple locations dispersed throughout the jobsite as warranted.
- xi. Clean and sanitize any hand washing facilities, portable wash stations, jobsite restroom areas, or other enclosed spaces daily with disinfectants that are effective against COVID-19. Frequently clean and disinfect all high

- touch areas, including entry and exit areas, high traffic areas, rest rooms, hand washing areas, high touch surfaces, tools, and equipment.
- xii. Maintain a daily attendance log of all workers and visitors that includes contact information, including name, phone number, address, and email.
- xiii. **Post a notice** in an area visible to all workers and visitors instructing workers and visitors to do the following:
  - i. Do not touch your face with unwashed hands or with gloves.
  - ii. Frequently wash your hands with soap and water for at least 20 seconds or use hand sanitizer with at least 60% alcohol.
- iii. Clean and disinfect frequently touched objects and surfaces such as workstations, keyboards, telephones, handrails, machines, shared tools, elevator control buttons, and doorknobs.
- iv. Cover your mouth and nose when coughing or sneezing, or cough or sneeze into the crook of your arm at your elbow/sleeve.
- v. Do not enter the jobsite if you have a fever, cough, or other COVID-19 symptoms. If you feel sick, or have been exposed to anyone who is sick, stay at home.
- vi. Constantly observe your work distances in relation to other staff. Maintain the recommended minimum six feet at all times when not wearing the necessary PPE for working in close proximity to another person.
- vii. Do not carpool to and from the jobsite with anyone except members of your own household unit, or as necessary for workers who have no alternative means of transportation.
- viii. Do not share phones or PPE.

The above notice must be translated as necessary to ensure that all non-English speaking workers are able to understand the notice.

#### 18. PROJECT SIGN

Project sign is not required. However, if the contractor wants to install a temporary project sign, such signage shall conform to the signage policy

The Contractor shall apply for signage permit and install the project sign per following Signage requirements.

Applicable for temporary Project sign that the Contractor may install.:

Project Sign Color and Imagery: BLACK or BLUE lettering on WHITE background. Imagery information, Content and Format will be given only to selected General Contractor, if needed.

Project Sign Size: 4' x 8'

Project Sign Material/Posting: Painted plywood sheet; sign shall not be illuminated Location: Signs shall be posted during the general contractor's mobilization, close to the public site boundary as feasible. Signs shall be posted to face each of the public right of way forming the site boundary, centered within the site boundary.

Temporary project sign must be approved by the Project Officer. The Contractor will be responsible for maintaining the sign and removal at project completion.

#### 19. SUBCONTRACTOR ACCEPTANCE

As required by General Conditions, Paragraph 15, the Contractor shall provide the names of proposed subcontractors for review by the Project Officer. The Project Officer may object for cause if a proposed subcontractor is deemed unfit or incompetent.

#### 20. TRAFFIC CONTROL

The Contractor shall (if necessary) provide a traffic control plan and devices including qualified flagman during delivery of material and equipment or during performance of roof work and minor site work. Refer to Specifications.

#### 21. SAFETY

The Contractor shall ensure that all personnel working and visiting any construction site and areas are issued and wear the appropriate safety equipment (hard hat, safety vest and harness when applicable), including mask or face covering.

#### 22. CRANES

The Contractor shall secure all permitting and control of crane arrival, set up, operation, and departure from site. Crane size, number, and positions shall be determined as required to permit erection without damage to structures, roadways, and surroundings. The Contractor shall not swing the crane(s) over any occupied adjacent buildings nor playground areas/roads/streets that are not closed. Crane operation shall not impact the regular occupancy availability of the Recreation Center and the adjacent garage nor make streets impassable. Emergency vehicle access to all locations within the Recreation Center shall not be hindered.

#### 23. LOCKOUT – TAGOUT SAFETY REQUIREMENTS

Contractor shall provide and generate Logout Tagout Procedures to comply with the following:

You shall provide procedures that shall be custom created (by Brady Corp) with all the essential elements for OSHA compliance.

These procedures shall be developed to establish the minimum requirements for the lockout of energy isolating devices whenever maintenance or servicing is done on machines or equipment. It shall include the process to ensure that the machine or equipment is stopped, isolated from all potentially hazardous energy sources and locked out before employees perform any servicing or maintenance where the unexpected energization or start-up of the machine or equipment or release of stored energy could cause injury.

Procedures shall be graphical indicating isolation Point Tags and installed at point of

Provide a reference binder with all the procedures.

Digital copies of the files shall be provided to be compatible Link 360 (created by Brady Corp.), no substitute.

Certifications: The Engineers shall be certified to develop procedures that ensures quality and safety. Engineers shall be certified to train new personnel

**Contact:** 

Joe Burke

Territory Manager Safety and Facility Identification

**Brady Corporation**Mobile: 470-701-8998

joseph burke@bradycorp.com



Gary G. Pan COMMISSIONER Main Street Centre 600 East Main Street, Suite 207 Richmond, Virginia 23219 PHONE (804) 371-2327 FAX (804) 371-6524

## Virginia Department of Labor and Industry Wage Determination Decision

Project Name Childcare Center Interior

Renovation

County Project Code 23-DES-ITBPW-415

DOLI Project Number ARLC-22-0013 FINAL

County or Independent City Arlington County

Publication Date 12/20/2022

Construction Type Building

Wage Determinations	Wage	Fringe
Asbestos Worker/Heat & Frost Insulator (Duct, Pipe		
& Mechanical System Insulation) *	\$39.27	\$18.67
Boilermaker	\$42.62	\$24.81
Brick Pointer/Caulker/Cleaner	\$19.68	
Bricklayer	\$34.00	\$12.59
Carpenter, Includes Acoustical Ceiling Installation,		
Drywall Hanging, and Form Work	\$23.36	\$5.20
Cement Mason/Concrete Finisher	\$21.94	\$3.36
Drywall Finisher/Taper	\$26.61	\$11.41
Electrician (Includes Low Voltage Wiring and		
Installation of Alarms and Sound and		
Communication Systems)	\$50.00	\$20.49
Firestopper**	\$29.41	\$8.73
Floor Layer: Soft Floors	\$18.75	

Wage Determinations	Wage	Fringe
Glazier	\$29.92	\$13.35
Ironworker	\$34.85	\$24.84
Ironworker, Reinforcing	\$27.46	\$8.71
Laborer: Common or General, including brick		
mason tending and cement mason tending	\$15.55	\$2.44
Laborer: Pipelayer	\$16.81	\$4.26
Marble Finisher	\$25.81	\$11.55
Mason - Stone	\$40.81	\$19.43
Operator: Backhoe/Excavator/Trackhoe	\$23.50	\$4.50
Operator: Bobcat/Skid Steer/Skid Loader	\$18.95	\$4.03
Operator: Bulldozer	\$21.99	\$4.98
Operator: Crane	\$30.45	\$4.14
Operator: Forklift	\$21.56	\$7.57
Operator: Loader	\$22.26	\$3.57
Operator: Roller	\$16.25	\$4.88
Painter (Brush, Roller, and Spray)	\$26.61	\$11.41
Pipefitter (Includes HVAC Pipe, Unit and		
Temperature Controls Installations)***	\$47.98	\$23.12
Plumber***	\$48.00	\$20.75
Roofer	\$15.83	\$3.06
Sheet Metal Worker (Includes HVAC Duct Installer)		
****	\$44.37	\$21.33
Sprinkler Fitter (Fire Sprinklers)	\$38.67	\$24.66
Tile Finisher	\$23.40	
Tile Setter	\$27.80	\$10.25
Truck Driver: Dump Truck	\$19.22	\$2.58
Waterproofer	\$21.75	\$1.57

## **Additional Notes**

<sup>\*</sup> Asbestos Worker/Heat & Frost Insulator (Duct, Pipe & Mechanical System Insulation) \* PAID HOLIDAYS: New Year's Day, Martin Luther King Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the day after Thanksgiving and Christmas Day provided the employee works the regular workday before and after the paid holiday. \*

\*\* Firestopper \*\* Includes the application of materials or devices within or around penetrations and openings in all rated wall or floor assemblies, in order to prevent the passage of fire, smoke of other gases. The application includes all components involved in creating the rated barrier at perimeter slab edges and exterior cavities, the head of gypsum board or concrete walls, joints between rated wall or floor components, sealing of penetrating items and blank openings. PAID HOLIDAYS: New Year's Day, Martin Luther King Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the day after Thanksgiving and Christmas Day provided the employee works the regular work day before and after the paid holiday. \*\*

\*\*\* Pipefitter (Includes HVAC Pipe, Unit and Temperature Controls Installations) \*\*\* PAID HOLIDAYS: New Year's Day, Martin Luther King's Birthday, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day and the day after Thanksgiving and Christmas Day. \*\*\*

\*\*\*\* Plumbing \*\*\*\* PAID HOLIDAYS: New Year's Day, Martin Luther King's Birthday, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day and the day after Thanksgiving and Christmas Day. \*\*\*\*

\*\*\*\*\* Sheet Metal Worker (Includes HVAC Duct Installer) \*\*\*\*\* PAID HOLIDAYS: New Year's Day, Martin Luther King's Birthday, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day and the day after Thanksgiving and Christmas Day. \*\*\*\*

All wage rates to be used on a contract will be set at the time the contract is awarded. While DOLI maintains a list of wage determinations online for reference purposes, only the wage determinations made in an official Wage Determination Decision, sent by DOLI to the contracting agency, can be used to ascertain the exact rates to be paid for a specific contract.

All rates are determined by DOLI and any appeals of specific classifications may be made through the Wage Determination Appeal form available at <a href="http://www.doli.virginia.gov/wp-content/uploads/2021/04/Appeal-for-Wage-Determination-Clarification.pdf">http://www.doli.virginia.gov/wp-content/uploads/2021/04/Appeal-for-Wage-Determination-Clarification.pdf</a>

Any additional classifications may be requested through the Additional Wage Classification form available at <a href="http://www.doli.virginia.gov/wp-content/uploads/2021/04/Request-for-Additional-Wage-Classification.pdf">http://www.doli.virginia.gov/wp-content/uploads/2021/04/Request-for-Additional-Wage-Classification.pdf</a> Understand your duties as a contractor under Virginia law by referencing our Contractor Responsibilities information sheet available at <a href="http://www.doli.virginia.gov/wp-content/uploads/2021/04/PREVAILING-WAGE-CONTRACTOR-RESPONSIBILITIES.pdf">http://www.doli.virginia.gov/wp-content/uploads/2021/04/PREVAILING-WAGE-CONTRACTOR-RESPONSIBILITIES.pdf</a>

Your employees have specific rights, which can be found on our List of Employee Rights information sheet available at <a href="http://www.doli.virginia.gov/wp-content/uploads/2021/04/PREVAILING-WAGE-EMPLOYEE-RIGHTS.pdf">http://www.doli.virginia.gov/wp-content/uploads/2021/04/PREVAILING-WAGE-EMPLOYEE-RIGHTS.pdf</a>
Any further questions should be directed to <a href="mailto:PrevailingWage@doli.virginia.gov">PrevailingWage@doli.virginia.gov</a>

#### ITB #23-DES-ITBPW-415 ATTACHMENT B BID FORM

#### PRICING SHEET

FURNISH ALL LABOR, MATERIALS AND EQUIPMENT FOR THE CONSTRUCTION OF ARLINGTON COUNTY - ARLINGTON CHILD CARE CENTER- 1915 N. UHLESTREET

The contract will be awarded to the qualified lowest responsive bidder by adding the total for Attachment A below

#### COSTS MUST BE PROVIDED IN ALL CELLS HIGHLIGHTED BELOW IN BLUE

Pay Application will be charged on actual completed portion of work per this Bid Tab

BIDDER : LANDIVAR & ASSOCIATES, LLC			
ITEM NO.	DIVISION NO.	<u>CSI DIVISIONS</u>	SUBTOTAL
1	1	GENERAL REQUIREMENTS (incl. DUMPSTER, SELECTIVE DEMOLITION, TEMPORARY FACILITIES, SUPERVISION HOURS, MOBILIZATION, SURVEY), BONDS, INSURANCE	\$184,578
2	2	MINIMUM SITE WORK - Including new concrete Walkways and Ramp	\$38,461
3	3	CONCRETE WORK	\$7,575
4	5	METALS	\$35,098
5	6	WOOD & PLASTIC	\$11,312
6	7	THERMAL & MOISTURE PROTECTION	\$4,545
7	8	DOORS & WINDOWS	\$79,235
8	9	FINISHES	\$119,151
9	10	SPECIALATIES: DOOR/WALL PROTECTION; TOILET/BATH ACCESSORIES; ROOM IDENTIFICATION/SIGNAGE	\$10,169
10	11	APPLIANCES (RESIDENTIAL)	\$5,303
11	12	SPECIAL FURNISHINGS CONSTRUCTION (CABINETS, CLOSETS, SHELVING, COUNTERTOPS ETC.)	\$36,108
12	21	FIRE PROTECTION	\$13,817
13	22	PLUMBING (incl. PLUMBING ACCESSORIES)	\$109,585
14	23	MECHANICAL	\$111,100
15	26	ELECTRICAL	\$113,120
			\$0.01
		TOTAL BID PRICE	\$879,153

# ARLINGTON COUNTY GOVERNMENT

# Contractor Performance Evaluation Form

Contractor Name:	Contract No.:
Date:	Project/Contract Name:
Scope of Work/Services Provided:	
Contract Start Date:/ Contract End Date:	/ Actual Completion Date://
Please rate the effectiveness of the Contractor's perform dimensions:	nance on the Contract/Project across the following
Evaluation Criteria: Unacceptable Poor Satisfactory Written comments to explain assigned ratings are required or an "excellent" in any category.	
<ul><li>Evaluation Questions</li><li>1. Quality of Workmanship</li><li>Rate the quality of the Contractor's workmanship. We the Contract? Was the Contractor responsive to remedent</li></ul>	· · ·
	atisfactory Excellent N/A
<ol> <li>Problem Solving and Decision Making         Rate the Contractor's ability to provide effective and cr making on Contract/Project.     </li> </ol>	reative problem solving, coordination and fair decision
Unacceptable Poor Sa	atisfactory Excellent N/A

3.	Project Schedule			
	Rate the Contractor's performance with regard to adhering to contract schedules. Did the Contractor meet the contract schedule, or the schedule as revised by approved change orders? If not was the delay attributable to the Contractor?			
	Unacceptable	Poor	Satisfactory Excellent	N/A
4.	Subcontractor Manageme	ent		
		·	ess in managing and coordinating subcontroproject management). Was the Contracto	
	Unacceptable	Poor	Satisfactory Excellent	N/A
5.	Safety			
	Rate the Contractor's safe safety accidents?	ty procedures on t	his Contract/Project? Were there any OHS	SA violations or serious
	Unacceptable	Poor	Satisfactory Excellent	N/A
6.		with local, state, stor comply in goo	and federal environmental standards in the d faith with local erosion and sedimentatio Plan?	
	Unacceptable	Poor	Satisfactory Excellent	N/A
7.	Change Orders			
		•	ge orders or extras? Were the Contractor'	s prices on change
	Unacceptable	Poor	Satisfactory Excellent	N/A
8.	Paperwork Processing			
		gs, invoices, workfo	eting and submitting required project paper orce reports, etc.) Did the Contractor subm	
	Unacceptable	Poor	Satisfactory Excellent	N/A

9.	Supervisory Personnel
	Rate the general performance of this Contractor's supervisory personnel. Did they have the knowledge, management skills and experience to run a project of this size and scope?
	Unacceptable Satisfactory Excellent N/A
10.	Expertise, Knowledge and Experience Rate this Contractor's personnel. Were they dedicated, experienced and qualified for the duration of project.
	Unacceptable Poor Satisfactory Excellent N/A
11.	Project/Contract Closeout  Rate the Contractor's performance on timeliness and quality of closeout deliverables such as As-Built  Drawings, Operation and Maintenance Manuals, and training. Did the Contractor complete the tasks or  Project on schedule; was the punch list completed within the allotted time?
	Unacceptable Satisfactory Excellent N/A
12.	Level of Overall Performance
	Unacceptable Satisfactory Excellent N/A
Base	d on these comments, would you recommend this Contractor for comparable work in the future?  Yes No
also	se provide any comments regarding the Contractor's performance or the quality of its work. The Contractor can provide any comments or clarification on the evaluation in the box below.  ect Officer or Contractor, use additional sheets, if Necessary):

## **Signatures and Certifications:**

- 1. The information contained in this evaluation form represents, to the best of my knowledge, a true and accurate analysis of the Contractor's performance record on this Contract; and,
- 2. The contents on the evaluation form and the ratings were not negotiated with the Contractor or its representative for any reason.

Evaluator's/Project Officer (PjO) Signature:	Date:
Evaluator's (PjO) Printed Name	Evaluator's Title:
Contractor's signature below acknowledges receipt and the op	portunity to respond:
Contractor Signature:	Date:
Contractor Printed Name:	Title

# **EVALUATION RATINGS DEFINITIONS**

Rating	Definition	Notes
Excellent	Performance meets contractual requirements and exceeds many to the County's benefit. The contractual performance of the element or sub-element being evaluated was accomplished with few minor problems for which corrective actions taken by the contractor were highly effective.	To justify an Exceptional rating, identify multiple significant events and state how they were of benefit to the County. A singular benefit, however, could be of such magnitude that it alone constitutes an Exceptional rating. Also, there should have been NO significant weaknesses identified.
Satisfactory	Performance meets contractual requirements. The contractual performance of the element or sub-element contains some minor problems for which corrective actions taken by the contractor appear or were satisfactory.	To justify a Satisfactory rating, there should have been only minor problems, or major problems the contractor recovered from without impact to the contract/order. There should have been NO significant weaknesses identified. A fundamental principle of assigning ratings is that contractors will not be evaluated with a rating lower than Satisfactory solely for not performing beyond the requirements of the contract/order.
Poor	Performance does not meet some contractual requirements. The contractual performance of the element or sub-element being evaluated reflects a serious problem for which the contractor has not yet identified corrective actions. The contractor's proposed actions appear only marginally effective or were not fully implemented.	To justify poor performance, identify a significant event in each category that the contractor had trouble overcoming and state how it impacted the County. A poor rating should be supported by referencing the management tool that notified the contractor of the contractual deficiency (e.g., management, quality, safety, or environmental deficiency report or letter).

Unacceptable Performance does not meet most contractual requirements and recovery is not likely in a timely manner. The		To justify an Unsatisfactory rating, identify multiple significant events in each category that the contractor had trouble overcoming and state how it impacted
	contractual performance of the element or sub-element contains a serious problem(s) for which the contractor's corrective actions appear or were ineffective.	the County. A singular problem, however, could be of such serious magnitude that it alone constitutes an unsatisfactory rating. An Unsatisfactory rating should be supported by referencing the management tools used to notify the contractor of the contractual deficiencies (e.g., management, quality, safety, or environmental deficiency reports, or letters).
Not Applicable (N/A)	11 11/11 (1100 applicable) official and account the factor of the applicable applicable applicable and a particular and a	

<u>END</u>

## **REVISED INSURANCE CHECKLIST**

CERTIFICATE OF INSURANCE MUST SHOW A	LL COVERAGE AND ENDORSEMENTS MARKED "X".			
COVERAGES REQUIRED	<u>LIMITS (FIGURES DENOTE MINIMUMS)</u>			
	Statutory limits of Virginia			
	\$500,000 accident, \$500,000 disease, \$500,000 disease policy limit			
	\$1,000,000 CSL BI/PD each occurrence, \$1 Million annual aggregate			
	\$500,000 CSL BI/PD each occurrence, \$1 Million annual aggregate			
	\$1 Million BI/PD each accident, Uninsured Motorist			
	\$1 Million BI/PD each accident, Uninsured Motorist			
	\$1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate			
<u> </u>	\$1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate			
	\$1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate			
	ate)\$1 Million CSL BI/PD each occurrence, \$ 1 Million annual aggregate			
	y\$1 Million each offense, \$1 Million annual aggregate			
X12. Umbrella Liability	\$1 Million Bodily Injury, Property Damage and Personal Injury			
13. Per Project Aggregate				
14. Professional Liability				
	\$1 Million per occurrence/claim			
	\$2 Million per occurrence/claim			
c. Medical Malpractice	\$1 Million per occurrence/claim			
d. Medical Professional Liability	\$ Limits as set forth in Virginia Code 8.01.581.15			
15. Miscellaneous E&O	\$1 Million per occurrence/claim			
16. Motor Carrier Act End. (MCS-90)	\$1 Million BI/PD each accident, Uninsured Motorist			
17. Motor Cargo Insurance				
	\$1 Million Bodily Injury, Property Damage per occurrence			
19. Garagekeepers Liability	\$500,000 Comprehensive, \$500,000 Collision			
20. Inland Marine-Bailee's Insurance	\$			
	Endorsement to CGL			
22. Crime and Employee Dishonesty Cover	age\$			
	de Coverage in the full amount of Contract, including any amendments			
X24. XCU Coverage	Endorsement to CGL			
25. USL&H	Federal Statutory Limits			
X26. Carrier Rating shall be A.M. Best Co.'s Rating of A-VII or better or equivalent				
X27. Notice of Cancellation, nonrenewal or	material change in coverage shall be provided to County at least			
30 days prior to action.				
_X28. The County shall be an Additional Insu	red on all policies except Workers Compensation and Auto and			
Professional Liability.				
_X29. Certificate of Insurance shall show Bid	Number and Bid Title.			
_30. Environmental Impairment Liability, include	ling coverage of on-site clean upBI/PD \$3 Million per occurrence/\$6			
Million Aggregate				
a In addition to environmental impai	rment liability, if workrequirescleanup, remediation, and/orremoval of bio-			
•	zardous or toxic material via transportation request:			
-	Million per occurrence with MCS-90 and CA 9948 (or equivalent			
endorsements specifically reference				
	\$2Million per occurrence/Aggregate			
INSURANCE AGENT'S STATEMENT:	a the Didden recent heless and house adviced the Didden of recuired			
	h the Bidder named below and have advised the Bidder of required			
coverages not provided through this agency.				
AGENCY NAME:	AUTH. SIGNATURE:			
BIDDER'S STATEMENT:	I Contract incurance requirements			
If awarded the Contract, I will comply with a BIDDER NAME: Landivar & Associates,LLC	i Contract insurance requirements.			
BIDDEK NAIVIE: Editated & Associates, EEC	AUTH. SIGNATURE:			