

**INVITATION TO BID**  
**CITY OF NAPLES**  
**PURCHASING DIVISION**  
**CITY HALL, 735 8<sup>TH</sup> STREET SOUTH**  
**NAPLES, FL 34102**  
**PH: 239-213-7100    FX: 239-213-7105**

**Cover Sheet**

NOTIFICATION DATE: <b>10/12/17</b>	TITLE <b>Fire Station #2 Improvements</b>	SOLICITATION NUMBER: <b>18-002</b>	OPENING DATE & TIME: <b>11/3/2017 2:00 PM</b>
<b>PRE-BID CONFERENCE DATE, TIME AND LOCATION:</b> <b>Non-mandatory Pre-Bid Meeting October 20, 2017; 10:00 AM local time at Naples Fire Station #2, 977 26<sup>th</sup> Ave - N, Naples FL, 34103</b>			

LEGAL NAME OF PARTNERSHIP, CORPORATION OR INDIVIDUAL:	
MAILING ADDRESS:	
CITY-STATE-ZIP:	
PH:	EMAIL:
FX:	WEB ADDRESS:
AUTHORIZED SIGNATURE	DATE
PRINTED NAME/TITLE	
<p>I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment and is in all respects fair and without collusion or fraud. I agree to abide by all conditions of this bid and certify that I am authorized to sign this bid for the bidder. In submitting a bid to the City of Naples the bidder offers and agrees that if the bid is accepted, the bidder will convey, sell, assign or transfer to the City of Naples all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the Anti-trust laws of the United States and the State of FL for price fixing relating to the particular commodities or services purchased or acquired by the City of Naples. At the City's discretion, such assignment shall be made and become effective at the time the City tenders final payment to the bidder.</p> <p align="center"><b>FEI/EIN Number _____</b></p> <p align="center">Please initial by all that apply</p> <p align="center">I acknowledge receipt/ review of the following addendum</p> <p> <input type="checkbox"/> Addendum #1                  <input type="checkbox"/> Addendum #2                  <input type="checkbox"/> Addendum #3                  <input type="checkbox"/> Addendum #4         </p>	

**PLEASE NOTE THE FOLLOWING**

- > This page **must be completed and returned** with your bid.
- > Bids must be **submitted in a sealed envelope, marked with solicitation number & opening date.**
- > All submissions must be received and date stamped by Purchasing staff prior to the above "**OPENING DATE & TIME**".
- > Submission received after the above opening date and time will not be accepted.
- > Evaluation scores will be available on the City of Naples web site [www.naplesgov.com](http://www.naplesgov.com) . **If you do not have computer access and want a copy of the evaluation scores, please enclose a stamped, self-addressed envelope with your bid.**

## GENERAL CONDITIONS

**TO ENSURE ACCEPTANCE OF THE PROPOSAL, PLEASE FOLLOW THESE INSTRUCTIONS. ANY AND ALL SPECIAL CONDITIONS, ATTACHED HERETO, HAVE PRECEDENCE.**

- 1. SEALED PROPOSAL:** All proposals must be submitted in a sealed envelope. The face of the envelope shall contain the proposal name and proposal number. Proposals not submitted on attached cover form shall be rejected. All proposals are subject to the conditions specified herein. Those which do not comply with these conditions are subject to rejection.
- 2. EXECUTION OF PROPOSAL:** Proposal must contain a manual signature of authorized representative in the proposal section. Proposal must be typed or printed in ink. Use of erasable ink is not permitted. All corrections made by proposer to his proposal must be initialed.
- 3. NO PROPOSAL:** If not submitting a proposal, respond by returning the Statement of No Proposal and explain the reason in the spaces provided. Failure to respond 3 times in succession without justification shall be cause for removal of the supplier's name from the proposal mailing list. NOTE: To qualify as a respondent, proposer must submit a "NO PROPOSAL," and it must be received no later than the stated proposal opening date and hour.
- 4. PROPOSAL OPENING:** Shall be public, on the date and at the time specified on the proposal form. It is the proposer's responsibility to assure that his proposal is delivered at the proper time and place of the proposal opening. Proposals which for any reason are not so delivered will not be considered. Offers by telegram; telephone; or fax are not acceptable. Proposal files may be examined during normal working hours.
- 5. WITHDRAWAL OF PROPOSALS:** Withdrawal of a proposal within sixty (60) days after the opening of proposals is subject to suspension or debarment in accordance with Policy 7-4 for up to three years.
- 6. PRICES, TERMS and PAYMENT:** Firm Prices shall be proposal and include all packing, handling, shipping charges and delivery to the destination shown herein. Proposer is encouraged to offer cash discount for prompt invoice payment. Terms of less than 20 days will not be considered.
  - A. TAXES:** The City of Naples does not pay Federal Excise and Sales taxes on direct purchases of tangible personal property. See exemption number on face of purchase order. This exemption does not apply to purchases of tangible personal property made by contractors who use the tangible personal property in the performance of contracts for the improvement of City-owned real property.
  - B. MISTAKES:** Proposers are expected to examine the specifications, delivery schedule, proposal prices, extensions, and all instructions pertaining to supplies and services. Failure to do so will be at proposer's risk. In case of mistake in extension, the unit price will govern.
  - C. CONDITION AND PACKAGING:** It is understood and agreed that any item offered or shipped as a result of this proposal shall be a new, current standard production model available at the time of this proposal. All containers shall be suitable for storage or shipment, and all prices shall include standard commercial packaging.
  - D. SAFETY STANDARDS:** Unless otherwise stipulated in the proposal, all manufactured items and fabricated assemblies shall comply with applicable requirements of Occupational Safety and Health Act and any standards there under.
  - E. UNDERWRITERS' LABORATORIES:** Unless otherwise stipulated in the proposal, all manufactured items and fabricated assemblies shall carry U.L. approval and re-examination listing where such has been established.
  - F. PAYMENT:** Payment will be made by the buyer after the items awarded to a vendor have been received, inspected, and found to comply with award specifications, free of damage or defect and properly invoiced. All invoices shall bear the purchase order number. Payment for partial shipments shall not be made unless specified in the proposal. Failure to follow these instructions may result in delay in processing

invoices for payment. In addition, the purchase order number must appear on bills of lading, packages, cases, delivery lists and correspondence.

**7. DELIVERY:** Unless actual date of delivery is specified (or if specified delivery cannot be met), show number of days required to make delivery after receipt of purchase order in space provided. Delivery time may become a basis for making an award (see Special Conditions). Delivery shall be within the normal working hours of the user, Monday through Friday, unless otherwise specified.

**8. MANUFACTURERS' NAMES AND APPROVED EQUIVALENTS:** Any manufacturers' names, trade names, brand names, information and/or catalog numbers listed in a specification are for information and not intended to limit competition. The proposer may offer any brand for which he is an authorized representative, which meets or exceeds the specification for any item(s). If proposals are based on equivalent products, indicate on the proposal form the manufacturer's name and number. Proposer shall submit with his proposal, cuts, sketches, and descriptive literature, and/or complete specifications. Reference to literature submitted with a previous proposal will not satisfy this provision. The proposer shall also explain in detail the reason(s) why the proposed equivalent will meet the specifications and not be considered an exception thereto. Proposals which do not comply with these requirements are subject to rejection. Proposals lacking any written indication of intent to quote an alternate brand will be received and considered in complete compliance with the specifications as listed on the proposal form.

**9. INTERPRETATIONS:** Any questions concerning conditions and specifications shall be directed in writing to this office for receipt no later than ten (10) days prior to the proposal opening. Inquiries must reference the date of proposal opening and proposal number. Failure to comply with this condition will result in proposer waiving his right to dispute the proposal.

**10. CONFLICT OF INTEREST:** All proposal awards are subject to Section 2-973 Conflict of Interest, City of Naples Code of Ordinances, which states: *"No public officer or employee shall have or hold any employment or contractual relationship with any business entity or any agency which is subject to the regulation of or is doing business with the city; nor shall an officer or employee have or hold any employment or contractual relationship that will create a continuing or frequently recurring conflict between his private interests and the performance of his public duties or that would impede the full and faithful discharge of his public duties. Any member of the city council or any city officer or employee who willfully violates this section shall be guilty of malfeasance in office or position and shall forfeit his office or position. Violation of this section with the knowledge, express or implied, of the person or corporation contracting with or making a sale to the city shall render the contract or sale voidable by the city manager or the city council."*

**11. AWARDS:** As the best interest of the City may require, the right is reserved to make award(s) by individual item, group of items, all or none, or a combination thereof; to reject any and all proposals or waive any minor irregularity or technicality in proposals received.

**12. ADDITIONAL QUANTITIES:** For a period not exceeding ninety (90) days from the date of acceptance of this offer by the buyer, the right is reserved to acquire additional quantities up to but not exceeding those shown on proposal at the prices proposal in this invitation. If additional quantities are not acceptable, the proposal sheets must be noted "PROPOSAL IS FOR SPECIFIED QUANTITY ONLY." (THIS PARAGRAPH DOES NOT APPLY FOR A TERM CONTRACT.)

**13. SERVICE AND WARRANTY:** Unless otherwise specified, the proposer shall define any warranty service and replacements that will be provided during and subsequent to this contract. Proposers must explain on an attached sheet to what extent warranty and service facilities are provided.

**14. SAMPLES:** Samples of items, when called for, must be furnished free of expense, on or before proposal opening time and date, and if not destroyed may, upon request, be returned at the proposer's expense. Each individual sample must be labeled with proposer's name, manufacturer's brand name and number, proposal number and item reference. Request for return of samples shall be accompanied by instructions which include shipping authorization and name of carrier and must be received with your

proposal. If instructions are not received within this time, the commodities shall be disposed of by the City of Naples.

**15. PROPOSAL PROTEST:** The city has formal proposal protest procedures that are available on request.

**16. INSPECTION, ACCEPTANCE AND TITLE:** Inspection and acceptance will be at destination unless otherwise provided. Title and risk of loss or damage to all items shall be the responsibility of the contract supplier until accepted by the ordering agency, unless loss or damage results from negligence by the ordering

**17. DISPUTES:** In case of any doubt or difference of opinion as to the items to be furnished hereunder, the decision of the buyer shall be final and binding on both parties.

**18. GOVERNMENTAL RESTRICTIONS:** In the event any governmental restrictions may be imposed which would necessitate alteration of the material, quality, workmanship or performance of the items offered on this proposal prior to their delivery, it shall be the responsibility of the successful proposer to notify the buyer at once, indicating in his letter the specific regulation which required an alteration. The City reserves the right to accept any such alteration, including any price adjustments occasioned thereby, or to cancel the contract at no expense to the City.

**19. LEGAL REQUIREMENTS:** Applicable provision of all Federal, State, county and local laws, and of all ordinances, rules, and regulations shall govern development submittal and evaluation of all proposals received in response hereto and shall govern any and all claims and disputes which may arise between person(s) submitting a proposal response hereto and the City of Naples by and through its officers, employees and authorized representatives, or any other person, natural or otherwise; and lack of knowledge by any proposer shall not constitute a cognizable defense against the legal effect thereof.

**20. PATENTS AND ROYALTIES:** The proposer, without exception, shall indemnify and save harmless the City of Naples and its employees from liability of any nature or kind, including cost and expenses for or on account of any copyrighted, patented, or unpatented invention, process, or article manufactured or used in the performance of the contract, including its use by the City of Naples. If the proposer uses any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood without exception that the proposal prices shall include all royalties or cost arising from the use of such design, device, or materials in any way involved in the work.

**21. ADVERTISING:** In submitting a proposal, proposer agrees not to use the results there from as a part of any commercial advertising.

**22. ASSIGNMENT:** Any Purchase Order issued pursuant to this proposal invitation and the monies which may become due hereunder are not assignable except with the prior written approval of the buyer.

**23. LIABILITY:** The supplier shall hold and save the City of Naples, its officers, agents, and employees harmless from liability of any kind in the performance of this contract.

**24. PUBLIC ENTITY CRIMES:** A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a proposal on a contract to provide any goods or services to a public entity, may not submit a proposal on a contract with a public entity for the construction or repair of a public building or public work, may not submit proposals on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

**25. DISCRIMINATION:** An entity or affiliate who has been placed on the discriminatory vendor list may not submit a proposal on a contract to provide goods or services to a public entity, may not submit a

proposal on a contract with a public entity for the construction or repair of a public building or public work, may not submit proposals on leases of real property to a public entity, may not award or perform work as a contractor, supplier, subcontractor, or consultant under contract with any public entity, and may not transact business with any public entity.

**26. COUNTY TAXES:** No proposal shall be accepted from and no contract will be awarded to any person, firm or corporation that is in arrears to the government of Collier County, Florida.

**27. OFFER EXTENDED TO OTHER GOVERNMENTAL ENTITIES:** The City of Naples encourages and agrees to the successful proposer extending the pricing, terms and conditions of this solicitation or resultant contract to other governmental entities at the discretion of the successful proposer.

**IF THIS PROPOSAL IS FOR A TERM CONTRACT, THE FOLLOWING CONDITIONS SHALL ALSO APPLY**

**28. ELIGIBLE USERS:** All departments of the City of Naples are eligible to use this term contract. Such purchases shall be exempt from the competitive proposal requirements otherwise applying to their purchases.

**29. PRICE ADJUSTMENTS:** Any price decrease effectuated during the contract period by reason of market change shall be passed on to City of Naples. Price increases are not acceptable.

**30. CANCELLATION:** All contract obligations shall prevail for at least one hundred eighty (180) days after effective date of contract. After that period, for the protection of both parties, this contract may be cancelled in whole or in part by either party by giving thirty (30) days prior written notice to the other party.

**31. RENEWAL:** The City of Naples reserves the option to renew the period of this contract, or any portion thereof for up to two (2) additional periods. Renewal of the contract period shall be by mutual agreement in writing.

**32. ABNORMAL QUANTITIES:** While it is not anticipated, should any unusual or abnormal requirements arise, the City reserves the right to solicit separate proposals thereon.

**33. FISCAL NON-FUNDING CLAUSE:** In the event sufficient funds are not budgeted for a new fiscal period, the City shall notify the contractor of such occurrence and the contract shall terminate on the last day of the current fiscal year without penalty or expense to the City.

**IF THIS PROPOSAL IS FOR PERFORMING A SERVICE, THE FOLLOWING CONDITIONS SHALL ALSO APPLY**

**34. ALTERNATIVE PROPOSALS:** Proposers offering service delivery methods other than those permitted by the scope of work may submit a separate envelope clearly marked "ALTERNATIVE PROPOSAL". Alternative proposals will be deemed non-responsive and will not be considered for award. All such responses will, however, be examined prior to award. Such examination may result in cancellation of all proposals received to permit rewriting the scope of work to include the alternative method, or the alternative method may be considered for future requirements of the City of Naples.

**35. ANTITRUST:** By entering into a contract, the contractor conveys, sells, assigns and transfers to the City of Naples all rights, titles and interest it may now have or hereafter acquire under the antitrust laws of the United States and the State of Florida that relate to the particular goods or services purchased or acquired by the City of Naples under said contract.

**36. PROPOSER INVESTIGATIONS:** Before submitting a proposal, each proposer shall make all investigations and examinations necessary to ascertain all site conditions and requirements affecting the full performance of the contract and to verify any representations made by the City of Naples upon which the proposer will rely. If the proposer receives an award as a result of its proposal submission, failure to have made such investigations and examinations will in no way relieve the proposer from its obligation to comply in every detail with all provisions and requirements of the contract documents, nor will a plea of ignorance of such conditions and requirements be accepted as a basis for any claim whatsoever by the contractor for additional compensation.

**37. CERTIFICATES AND LICENSES:** The Contractor, at time of proposal, shall possess the correct occupational licenses, all professional licenses or other authorizations necessary to carry out and perform the work required by the City of Naples and Collier County for this project pursuant to all applicable Federal, State and Local Laws, Statutes, Ordinances, and rules and regulations of any kind.

**38. CHANGE IN SCOPE OF WORK:** The City of Naples may order changes in the work consisting of additions, deletions or other revisions within the general scope of the contract. No claims may be made by the contractor that the scope of the project or of the contractor's services has been changed, requiring changes to the amount of compensation to the contractor or other adjustments to the contract unless such changes or adjustments have been made by written amendment to the contract signed by the City of Naples and the contractor. If the contractor believes that any particular work is not within the scope of the project, is a material change, or will otherwise require more compensation to the contractor, the contractor must immediately notify the City in writing of this belief. If the City believes that the particular work is within the scope of the contract as written, the contractor will be ordered to and shall continue with the work as changed and at the cost stated for the work within the scope.

**39. CONTRACTOR PERSONNEL:** The City of Naples shall, throughout the life of the contract, have the right of reasonable rejection and approval of staff or subcontractors assigned to the work by the contractor. If the City reasonably rejects staff or subcontractors, the contractor must provide replacement staff or subcontractors satisfactory to the City in a timely manner and at no additional cost to the City. The day-to-day supervision and control of the contractor's employees and sub-contractors is the responsibility solely of the contractor.

**40. COST REIMBURSEMENT:** The contractor agrees that all incidental costs, including allowances for profit and tools of the trade, must be included in the proposal rates. If an arrangement is made between the contractor and the City to reimburse the contractor for the cost of materials provided in the performance of the work, the contractor shall be reimbursed in the following manner: The City shall reimburse the contractor on completion and acceptance of each assigned job, only for those materials actually used in the performance of the work that is supported by invoices issued by the suppliers of the contractor describing the quantity and cost of the materials purchased. No surcharge shall be added to the supplier's invoices or included in the contractor's invoice submitted to the City that would increase the dollar amount indicated on the supplier's invoice for the materials purchased for the assigned job.

**41. EXCEPTIONS:** Proposers taking exception to any part or section of the solicitation shall indicate such exceptions on the proposal form. Failure to indicate any exception will be interpreted as the proposer's intent to comply fully with the requirements as written. Conditional or qualified proposals, unless specifically allowed, shall be subject to rejection in whole or in part.

**42. FAILURE TO DELIVER:** In the event of the contractor to fail to deliver services in accordance with the contract terms and conditions, the City, after due oral or written notice, may procure the services from other sources and hold the contractor responsible for any resulting purchase and administrative costs. This remedy shall be in addition to any other remedies that the City may have.

**43. FAILURE TO ENFORCE:** Failure by the City at any time to enforce the provisions of the contract shall not be construed as a waiver of any such provisions. Such failure to enforce shall not affect the validity of the contract or any part thereof or the right of the City to enforce any provision at any time in accordance with its terms.

**44. FORCE MAJEURE:** The contractor shall not be held responsible for failure to perform the duties and responsibilities imposed by the contract due to legal strikes, fires, riots, rebellions and acts of God beyond the control of the contractor, unless otherwise specified in the contract.

**45. INDEPENDENT CONTRACTOR:** The contractor shall be legally considered an independent contractor and neither the contractor nor its employees shall, under any circumstances, be considered servants or agents of the City of Naples and the City of Naples shall be at no time legally responsible for any negligence or any wrongdoing by the contractor, its servants or agents. The City of Naples shall not withhold from the contract payments to the contractor any federal income taxes, Social Security tax, or any other amounts for benefits to the contractor. Further, the City shall not provide to the contractor any insurance coverage or other benefits, including Workers' Compensation normally provided by the City for its employees.

**46. ORAL STATEMENTS:** No oral statement of any person shall modify or otherwise affect the terms, conditions or specifications stated in this contract. All modifications to the contract must be made in writing by the City of Naples.

**47. QUALIFICATIONS OF PROPOSERS:** The proposer may be required, before the award of any contract, to show to the complete satisfaction of the City of Naples that it has the necessary facilities, ability, and financial resources to provide the service specified therein in a satisfactory manner. The proposer may also be required to give a past history and references in order to satisfy the City in regard to the proposer's qualifications. The City may make reasonable investigations deemed necessary and proper to determine the ability of the proposer to perform the work, and the proposer shall furnish to the City all information for this purpose that may be requested. The City reserves the right to reject any proposal if the evidence submitted by, or investigation of, the proposer fails to satisfy the City that the proposer is properly qualified to carry out the obligations of the contract and to complete the work described therein. Evaluation of the proposer's qualifications shall include:

- > The ability, capacity, skill and financial resources to perform the work or service.
- > The ability to perform the work service promptly or within the time specified, without delay.
- > The character, integrity, reputation, judgment, experience, and efficiency of the proposer.
- > The quality of performance of previous contracts or services.

**48. QUALITY CONTROL:** The contractor shall institute and maintain throughout the contract period a properly documented quality control program designed to ensure that the services are provided at all times and in all respects in accordance with the contract. The program shall include providing daily supervision and conducting frequent inspections of the contractor's staff and ensuring that accurate records are maintained describing the disposition of all complaints. The records so created shall be open to inspection by the City.

**49. RECOVERY OF MONEY:** Whenever, under the contract, any sum of money shall be recoverable from or payable by the contractor to the City, the same amount may be deducted from any sum due to the contractor under the contract or under any other contract between the contractor and the City. The rights of the City are in addition and without prejudice to any other right the City may have to claim the amount of any loss or damage suffered by the City on account of the acts or omissions of the contractor.

**50. REQUIREMENTS CONTRACT:** During the period of the contract, the contractor shall provide all the services described in the contract. The contractor understands and agrees that this is a requirements contract and that the City shall have no obligation to the contractor if no services are required. Any quantities that are included in the scope of work reflect the current expectations of the City for the period of the contract. The amount is only an estimate and the contractor understands and agrees that the City is under no obligation to the contractor to buy any amount of services as a result of having provided this estimate or of having any typical or measurable requirement in the past. The contractor further understands and agrees that the City may require services in excess of the estimated annual contract amount and that the quantity actually used whether in excess of, or less than, the estimated annual contract amount and that the quantity actually used

shall not give rise to any claim for compensation other than the total of the unit prices in the contract for the quantity actually used.

**51. TERMINATION FOR CONVENIENCE:** The performance of work under the contract may be terminated by the City in whole or in part whenever the City determines that termination is in the City's best interest. Any such termination shall be effected by the delivery to the contractor of a written notice of termination of at least seven (7) days before the date of termination, specifying the extent to which performance of the work under the contract is terminated and the date upon which such termination becomes effective. After receipt of a notice of termination, except as otherwise directed, the contractor shall stop work on the date of the receipt of the notice or other date specified in the notice; place no further orders or subcontracts for materials, services or facilities except as necessary for completion of such portion of the work not terminated; terminate all vendors and subcontracts; and settle all outstanding liabilities and claims.

**52. TERMINATION FOR DEFAULT:** The City of Naples reserves the right to terminate the contract if the City determines that the contractor has failed to perform satisfactorily the work required, as determined by the City. In the event the City decides to terminate the contract for failure to perform satisfactorily, the City shall give to the contractor at least seven (7) days written notice before the termination takes effect. The seven-day period will begin upon the mailing of notice by the City. If the contractor fails to cure the default within the seven (7) days specified in the notice and the contract is terminated for failure to perform satisfactorily, the contractor shall be entitled to receive compensation for all reasonable, allocable and allowable contract services satisfactorily performed by the contractor up to the date of termination that were accepted by the City prior to the termination. In the event the City terminates the contract because of the default of the contractor, the contractor shall be liable for all excess costs that the City is required to expend to complete the work under contract.

**53. STATE AND FEDERAL EMPLOYMENT LAWS:** Contractors providing service to the City are required to comply with all state and federal employment laws. This includes, but is not limited to, laws resulting from the Immigration and Reform and Control Act of 1986, wherein all employers are required to verify the identity and employment eligibility of all employees. The Department of Homeland Security, U.S. Citizenship and Immigration Services require employees and employers to complete Form I-9 and the employer must examine evidence of identity and employment eligibility within three business days of the date employment begins. Non compliant contractors will be subject to contract sanctions, up to and including contract termination.

**54. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY, AND VOLUNTARY EXCLUSION:** The contractor agrees to comply with Executive Order 12549 "Debarment and Suspension" and 2 CFR 180 "OMB Guidelines to Agencies on Government wide Debarment and Suspension." These rules require all contractors using federal funds not be debarred or suspended from doing business with the Federal Government. This includes sub-recipients and lower tier participant for covered transactions. Signing and submitting this document certified the organization and its principals are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency, and further have not within the preceding three-year period been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction.

**THE CITY OF NAPLES IS AN EQUAL OPPORTUNITY EMPLOYER**



## GENERAL INSURANCE REQUIREMENTS

The Contractor shall not commence work until he has obtained all the insurance required under this heading, and until such insurance has been approved by the Owner, nor shall the Contractor allow any subcontractor to commence work until all similar insurance required of the subcontractor has also been obtained and approved by the Owner.

Certificates of insurance must be issued by an authorized representative of the insurance company at the request and direction of the policyholder and must include sufficient information so as to identify the coverage and the contract for Owner's improvements for which they are issued. Certificates of insurance must be issued by a nationally recognized insurance company with a Best's Rating of no less than B+VII, satisfactory to the Owner, and duly licensed to do business in the state of said Contract.

The Contractor shall procure and maintain, during the life of this Contract, Workmen's Compensation Insurance for all of his employees to be engaged in work under this Contract, and he shall require any subcontractor similarly to provide Workmen's Compensation Insurance for all of the latter's employees to be engaged in such work, unless such employees are covered by the protection afforded by the Contractor's insurance. In case any employees are to be engaged in hazardous work under this Contract, and are not protected under this Workmen's Compensation statute, the Contractor shall provide, and shall cause each subcontractor to provide, adequate coverage for the protection of such employees. It is acceptable to use a State-approved Workmen's Compensation Self-Insurance fund.

The Contractor shall take out and maintain during the life of this Contract, Public Liability and Property Damage and shall include Contractual Liability, Personal Injury, Libel, Slander, False Arrest, Malicious Prosecution, Wrongful Entry or Eviction, Broad Form Property Damage, Products, Completed Operations and XCU Coverage to be included on an occurrence basis, and to the full extent of the Contract to protect him, the Owner, and any subcontractor performing work covered by this Contract from damages for personal injury, including accidental death, as well as from claims for property damage, which may arise from operations under this contract, whether such operations be by himself or by a subcontractor, or by anyone directly or indirectly employed by either of them. The Contractor shall also maintain automobile liability insurance including "non-owned and hired" coverage. The entire cost of this insurance shall be borne by the Contractor.

The amount of such insurance shall be no less than \$1,000,000 annual aggregate for bodily injury and property damage combined per occurrence.

The City of Naples must be named as Additional Insured on the insurance certificate and the following must also be stated on the certificate. "These coverage's are primary to all other coverage's the City possesses for this contract only." The City of Naples shall be named as the Certificate Holder. The Certificate Holder shall read as follows:

The City of Naples  
735 Eighth Street South  
Naples, Florida 34102

No City Division, Department, or individual name should appear on the Certificate.  
No other format will be acceptable.

The Certificate must state the solicitation number and title.

When using the ACORD 25 – Certificate of Insurance only the most current version will be accepted.

The City of Naples requires a copy of a cancellation notice in the event the policy is cancelled. The City of Naples shall be expressly endorsed onto the policy as a cancellation notice recipient.

**STATEMENT OF NO BID**

If you will not be bidding on this product/service, please help us by completing and returning only this page to:

City of Naples, Purchasing Division  
City Hall, 735 8<sup>th</sup> Street South  
Naples, FL 34102  
Fax 239-213-7105

Bid # \_\_\_\_\_ and Description: \_\_\_\_\_

We, the undersigned, decline to bid on the above project for the following reason(s):

- \_\_\_ We are not able to respond to the Invitation to Bid by the specified deadline.
- \_\_\_ Our Company does not offer this product or service.
- \_\_\_ Our current work schedule will not permit us to perform the required services.
- \_\_\_ Specifications are incomplete or information is unclear (Please explain below).

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_ Other (Please specify below)

\_\_\_\_\_  
\_\_\_\_\_

Company Name \_\_\_\_\_

PH \_\_\_\_\_ Email \_\_\_\_\_

Name and Title of individual completing this form:

\_\_\_\_\_  
(Printed Name) (Title)

\_\_\_\_\_  
(Signature) (Date)

**REFERENCES**

**THIS SHEET MUST BE COMPLETED AND RETURNED WITH BID**

**PROVIDE AT LEAST THREE NON-CITY REFERENCES FOR WHOM YOUR COMPANY HAS PROVIDED SAME OR SIMILAR SERVICES WITHIN THE LAST 2 YEARS.**

**COMPANY NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**TELEPHONE:** \_\_\_\_\_

**CONTACT PERSON:** \_\_\_\_\_

**CONTACT E-MAIL ADDRESS:** \_\_\_\_\_

**COMPANY NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**TELEPHONE:** \_\_\_\_\_

**CONTACT PERSON:** \_\_\_\_\_

**CONTACT E-MAIL ADDRESS:** \_\_\_\_\_

**COMPANY NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**TELEPHONE:** \_\_\_\_\_

**CONTACT PERSON:** \_\_\_\_\_

**CONTACT E-MAIL ADDRESS:** \_\_\_\_\_

**Submitting Vendor Name:** \_\_\_\_\_

## **CONSTRUCTION SPECIAL CONDITIONS**

### **A. TERMS OF CONTRACT**

The resulting contract will commence on award and be in effect until completion of the project. Services to be rendered by the contractor shall be commenced subsequent to the execution of an Agreement. Project must be completed by the contract dates specified within the Notice to Proceed for construction. The Contractor will be given 150 days to accomplish the project. Should contractor fail to complete the project within this timeframe, daily liquidated damages in an amount of \$250.00 per day will be assessed.

### **B. PROHIBITION OF CONTACT**

Under no circumstances should any prospective organization or individual, or anyone acting for or on behalf of a prospective organization or individual, seek to influence or gain the support of any member of the City Council, public official or City staff favorable to the interest of any prospective organization or individual. Likewise, contact with City Council, any public official or city staff against the interests of other prospective organization (s) and or individual(s) is prohibited. Any such activities will result in the exclusion of the prospective organization or individual from consideration by the City.

### **C. REFERENCES**

Bidder must submit a minimum of three references on the form provided. Additionally, a signed and dated IRS W-9 form with EIN is required from all vendors. Proof of insurance from the successful proposer is required at the time of issuance and award of a contract.

### **D. STATEMENT OF NO BID**

If you will not be bidding on this producer/service, please help us by completing and returning the Statement of No Bid.

### **E. BID FORMAT**

The Contract, if awarded, will be awarded on the basis of material and equipment illustrated and described on the Drawings or specified in the Specification. If a substitution or an "or equal" item is proposed, the proposer must submit this information to the City of Naples Purchasing Department ten (10) days prior to the Proposal Date for evaluation as an acceptable substitution or an "or equal" item. If the substitution or the "or equal" item is accepted, the City of Naples will issue an Addendum to all Proposers listing the allowable substitution or the "or equal" item. The cost of changes in related work, additional drawings which may be required to illustrate or define the substitute or "or equal" equipment and its relationship to the other parts or portions of the Work shall be paid by the Contractor. No change will be made in the amount of time in which to complete the Work or in the liquidated damages.

## **BID SECURITY / BID BOND**

It is the policy of the City of Naples to require a Bid Bond for all construction related sealed bids estimated to be in excess of \$100,000. A bid bond or equivalent financial security in the amount of five (5) percent of the bid price shall be required and must accompany all bids. The Bid Bond is to be provided by a surety company authorized to do business in the State of Florida or otherwise supplied in a form satisfactory to the City. The bid bond must be submitted with the bid. When the invitation for bids requires a bid bond, noncompliance will result in rejection of the bid. Note that failure or refusal of the awarded bidder to enter into a contract within twenty (20) calendar days after receipt of said contract will result in damages to the City and bid bond will be forfeited to the City as liquidated damages.

## **G. PROPOSAL CONSTRUCTION PERFORMANCE & PAYMENT BONDS**

A Performance and Payment Bond will be required of the Awarded Proposer for any contract that is in excess of \$100,000.00 dollars and will be in an amount equal to 100 (%) percent of the price specified in the Contract. The bond(s) shall be executed by a surety company authorized to do business in the State of Florida, or otherwise secured in a manner satisfactory to the City for the protection of all persons supplying labor and material to the contractor or its subcontractors for the performance of the work provided for in the contract. Proof of insurance from the successful proposer is required at the time of issuance and award of a contract.

## **H. QUESTIONS**

Questions regarding this proposer packet must be received in writing in the Purchasing Division **NO LATER THAN TEN CALENDAR DAYS PRIOR TO THE BID OPENING DATE TO ENSURE AN ANSWER IS PROVIDED PRIOR TO CLOSING.**

**Direct all questions to:**

**Gerald “Jed” Secory, MBA / CPPO / CPM**  
**Purchasing and Contracts Manager**  
City of Naples, Purchasing Division  
735 8th Street South  
Naples, Florida 34102  
**PH: (239) 213-7102 FX: (239) 213-7105**  
[Jsecory@naplesgov.com](mailto:Jsecory@naplesgov.com)

## SUBMISSION CHECKLIST

Bidder should check off each of the following items as completed and submit with bid response:

CHECKLIST ELEMENTS	INCLUDED
<ul style="list-style-type: none"> <li>• Submit one (1) original signature and one (1) copy of your original submission document AND a Windows© compatible PDF of the original document on a CD or Flash / Thumb Drive that is clearly labeled.</li> </ul>	<input type="checkbox"/>
<ul style="list-style-type: none"> <li>• Include any required drawings; descriptive literature; qualifications; schedules; product compliance / exceptions; alternatives; questionnaire; references, forms, tabs, pricing/cost; and any information required of the proposer identified in the text of the bid including information for bid evaluation.</li> </ul>	<input type="checkbox"/>
<ul style="list-style-type: none"> <li>• Include any Professional Licenses that qualify the firm for this solicitation as well as applicable bond documents, if required. Note if you are not a single prime contractor, list all subcontractors to be used for our project in your bid/proposal and their professional licenses.</li> </ul>	<input type="checkbox"/>
<ul style="list-style-type: none"> <li>• Mandatory FORMS from this document to be included are: <u>Cover Sheet</u>, <u>References Sheet</u>, <u>Submission Checklist Sheet</u>, <u>IRS W-9 (Dec 2014)</u> and <u>Cost / Compensation Schedule</u>.</li> </ul>	<input type="checkbox"/>
<ul style="list-style-type: none"> <li>• Have an authorized individual sign the appropriate pages including the <u>Cover Sheet</u> with bid addenda initialed. Also, examples of vendor contracts used by the City can be found on the Naples Purchasing web site and should be reviewed by the vendor.</li> </ul>	<input type="checkbox"/>
<ul style="list-style-type: none"> <li>• Bid document needs to be received by the OPENING DATE &amp; TIME indicated on the Cover Sheet. The mailing envelope must be addressed to:</li> <li>• <div style="text-align: center; padding-left: 40px;">                     City of Naples                      Purchasing Division                      735 8<sup>th</sup> Street South                      Naples, Florida 34102                 </div> </li> </ul>	<input type="checkbox"/>
<p style="text-align: center;">The mailing envelope should be sealed and marked with:</p> <p><b>Number:           18-002</b>  <b>Title:               Fire Station #2 Improvements</b>  <b>Opening Date:   11/3/2017</b></p>	<input type="checkbox"/>

ALL COURIER DELIVERED BIDS MUST HAVE THE BID NUMBER AND TITLE ON THE OUTSIDE OF THE COURIER PACKET.

Submitting Vendor Name: \_\_\_\_\_

*At the discretion of the Purchasing Manager, bids or proposals with minor irregularities may be accepted and allowed to be corrected when in the best interest of the City.*

W-9 FORM MUST BE COMPLETED AND RETURNED WITH BID

Fillable Form can also be downloaded at
https://www.irs.gov/pub/irs-pdf/fw9.pdf

Form W-9
(Rev. December 2014)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer
Identification Number and Certification

Give Form to the
requester. Do not
send to the IRS.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.
2 Business name/disregarded entity name, if different from above
3 Check appropriate box for federal tax classification; check only one of the following seven boxes:
4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):
5 Address (number, street, and apt. or suite no.)
6 City, state, and ZIP code
7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see How to get a TIN on page 3.

Social security number
[ ] [ ] [ ] - [ ] [ ] - [ ] [ ] [ ] [ ] [ ] [ ]

or

Employer identification number
[ ] [ ] [ ] [ ] - [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Part II Certification

Under penalties of perjury, I certify that:

- 1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here Signature of U.S. person Date

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.
Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at www.irs.gov/fw9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
Form 1099-DIV (dividends, including those from stocks or mutual funds)
Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
Form 1099-S (proceeds from real estate transactions)
Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
Form 1099-C (canceled debt)
Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding? on page 2.

By signing the filled-out form, you:

- 1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See What is FATCA reporting? on page 2 for further information.

**Note.** If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

**Definition of a U.S. person.** For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

**Special rules for partnerships.** Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States:

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

**Foreign person.** If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

**Nonresident alien who becomes a resident alien.** Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

**Example.** Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

## Backup Withholding

**What is backup withholding?** Persons making certain payments to you must under certain conditions withhold and pay to the IRS 28% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

**Payments you receive will be subject to backup withholding if:**

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),

3. The IRS tells the requester that you furnished an incorrect TIN,

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code* on page 3 and the separate Instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships* above.

## What is FATCA reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code* on page 3 and the Instructions for the Requester of Form W-9 for more information.

## Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

## Penalties

**Failure to furnish TIN.** If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

**Civil penalty for false information with respect to withholding.** If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

**Criminal penalty for falsifying information.** Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

**Misuse of TINs.** If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

## Specific Instructions

### Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account, list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9.

a. **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

**Note. ITIN applicant:** Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. **Sole proprietor or single-member LLC.** Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. **Partnership, LLC that is not a single-member LLC, C Corporation, or S Corporation.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. **Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(iii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity name." If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.



**Line 2**

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

**Line 3**

Check the appropriate box in line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box in line 3.

**Limited Liability Company (LLC).** If the name on line 1 is an LLC treated as a partnership for U.S. federal tax purposes, check the "Limited Liability Company" box and enter "P" in the space provided. If the LLC has filed Form 8832 or 2553 to be taxed as a corporation, check the "Limited Liability Company" box and in the space provided enter "C" for C corporation or "S" for S corporation. If it is a single-member LLC that is a disregarded entity, do not check the "Limited Liability Company" box; instead check the first box in line 3 "Individual/sole proprietor or single-member LLC."

**Line 4, Exemptions**

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space in line 4 any code(s) that may apply to you.

**Exempt payee code.**

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

- 1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)
- 2—The United States or any of its agencies or instrumentalities
- 3—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities
- 4—A foreign government or any of its political subdivisions, agencies, or instrumentalities
- 5—A corporation
- 6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession
- 7—A futures commission merchant registered with the Commodity Futures Trading Commission
- 8—A real estate investment trust
- 9—An entity registered at all times during the tax year under the Investment Company Act of 1940
- 10—A common trust fund operated by a bank under section 584(a)
- 11—A financial institution
- 12—A middleman known in the investment community as a nominee or custodian
- 13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 <sup>1</sup>	Generally, exempt payees 1 through 5 <sup>2</sup>
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

<sup>1</sup> See Form 1099-MISC, Miscellaneous Income, and its instructions.

<sup>2</sup> However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

**Exemption from FATCA reporting code.** The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

- A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)
- B—The United States or any of its agencies or instrumentalities
- C—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities
- D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)
- E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)
- F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state
- G—A real estate investment trust
- H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940
- I—A common trust fund as defined in section 584(a)
- J—A bank as defined in section 581
- K—A broker
- L—A trust exempt from tax under section 664 or described in section 4947(a)(1)
- M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

**Note.** You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

**Line 5**

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns.

**Line 6**

Enter your city, state, and ZIP code.

**Part I. Taxpayer Identification Number (TIN)**

**Enter your TIN in the appropriate box.** If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on this page), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

**Note.** See the chart on page 4 for further clarification of name and TIN combinations.

**How to get a TIN.** If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at [www.ssa.gov](http://www.ssa.gov). You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at [www.irs.gov/businesses](http://www.irs.gov/businesses) and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting [IRS.gov](http://IRS.gov) or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

**Note.** Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

**Caution:** A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

**Part II. Certification**

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, or 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code* earlier.

**Signature requirements.** Complete the certification as indicated in items 1 through 5 below.

**1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983.** You must give your correct TIN, but you do not have to sign the certification.

**2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983.** You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

**3. Real estate transactions.** You must sign the certification. You may cross out item 2 of the certification.

**4. Other payments.** You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

**5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions.** You must give your correct TIN, but you do not have to sign the certification.

**What Name and Number To Give the Requester**

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account <sup>1</sup>
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor <sup>2</sup>
4. a. The usual revocable savings trust (grantor is also trustee) b. So-called trust account that is not a legal or valid trust under state law	The grantor-trustee <sup>1</sup> The actual owner <sup>1</sup>
5. Sole proprietorship or disregarded entity owned by an individual	The owner <sup>3</sup>
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))	The grantor <sup>4</sup>
For this type of account:	Give name and EIN of:
7. Disregarded entity not owned by an individual	The owner
8. A valid trust, estate, or pension trust	Legal entity <sup>4</sup>
9. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
10. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
11. Partnership or multi-member LLC	The partnership
12. A broker or registered nominee	The broker or nominee
13. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)(B))	The trust

<sup>1</sup> List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

<sup>2</sup> Circle the minor's name and furnish the minor's SSN.

<sup>3</sup> You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

<sup>4</sup> List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships* on page 2.

**\*Note.** Grantor also must provide a Form W-9 to trustee of trust.

**Note.** If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

**Secure Your Tax Records from Identity Theft**

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Publication 4535, Identity Theft Prevention and Victim Assistance.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

**Protect yourself from suspicious emails or phishing schemes.** Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to [phishing@irs.gov](mailto:phishing@irs.gov). You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: [spam@uce.gov](mailto:spam@uce.gov) or contact them at [www.ftc.gov/idtheft](http://www.ftc.gov/idtheft) or 1-877-IDTHEFT (1-877-438-4338).

Visit [IRS.gov](http://IRS.gov) to learn more about identity theft and how to reduce your risk.

**Privacy Act Notice**

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

**City of Naples FL**  
**Invitation to Bid # 18-002**  
Fire Station #2 Improvements

**INDEX**

	<b>PAGE</b>
COVER SHEET	1
GENERAL CONDITIONS	2
GENERAL INSURANCE REQUIREMENTS	9
STATEMENT OF NO BID	10
REFERENCES	11
SPECIAL CONDITIONS	12
SUBMISSION CHECKLIST	14
IRS W-9 FORM	15

**SPECIFICATIONS**

PROJECT DESCRIPTION	20
QUALIFICATIONS	
COMPLETION	
SCOPE OF WORK	

**Attachment A – Cost Schedule**                      **REQUIRED**

**Attachment B - Project Plan Documents**

# City of Naples FL

## Invitation to Bid # 18-002 Fire Station #2 Improvements

### PROJECT DESCRIPTION

The Fire Station # 2 HVAC Improvement Project, located at 977 26<sup>th</sup> Ave North, is comprised of HVAC system improvement and electrical system upgrade. Fire Station #2 must be kept in operation 24 hours per day and 7 days per week. To accomplish this, the work must proceed in three phases.

- Phase 1 covers the Day room/kitchen/ Radio room areas.
- Phase 2 covers the bunk room areas.
- Phase 3 covers the wellness area.

### QUALIFICATIONS

The Contractor must demonstrate they are qualified and licensed by the State of Florida or Collier County to perform the work scope described below and on the drawings.

### COMPLETION

The project duration is 150 days after Notice to Proceed to substantial completion and another 30 days to Final Completion and project closeout.

### SCOPE OF WORK

HVAC System improvements was designed by AMEC and their sub-consultant AWS. The major components of the new HVAC system is the replacement of the existing six interior ceiling mounted air handlers with three new exterior located air handlers. The existing electrical system in the kitchen area is being upgraded to address the frequent shut down or blown breakers. New LED ceiling lights are being added. The existing ceiling tile is being upgraded with gypsum board system to significantly improve the energy efficiency of the station.

Unless otherwise stated in the documents, the Contractor shall be required to provide the items, vendor, and model number specified in the drawings. Should the Contractor wish to submit APPROVED EQUIVALENTS as provided under Section 8 of the General Conditions, this must be done 10 days prior to bid for owner review and approval.

The base HVAC scope includes Trane TCC A/C or approved equivalent equipment. The upgraded bid is the incremental cost to provide Trane THC A/C (high efficiency) units. The incremental additional cost will include any and all modifications required for the larger equipment such as concrete base, supports, equipment platforms, electrical, and duct work.

**In general, the Work includes, but is not limited to:**

1. All demolition including ceilings, insulation, grid, soffit, bulkheads, headers, fans, etc.
2. Temporary relocate and return equipment and furniture per phase. Protect all kitchen casework, counters and equipment.
3. Temporary support for existing light fixtures. Remove and store smoke detectors, speakers, strobes, horns, emergency and exit lights etc. to be reinstalled.
4. Phase Removal of all existing HVAC equipment, piping, electrical, controls, etc.
5. Supply and install PAC 1, 2, and 3 and all associated supports including HVAC platforms and concrete base.
6. Electrical power supply to and from local disconnect switch to each PAC.
7. All ducts, supply and return registers, motorized dampers.
8. Moving equipment, furniture, etc. and protect equipment as required to accomplish each phase.
9. All cutting and patching of exterior and interior walls.
10. Supply and install all new light fixtures and switches/occupancy sensors per Phase.
11. Supply and install new ceiling fans per Phase.
12. Reinstall all smoke detectors, speakers, strobes, horns, emergency and exit lights etc. in new ceiling per Phase.
13. Provide temporary power to kitchen when kitchen electrical upgrade work is undertaken.
14. Power supply for motorized dampers.
15. Install all new ceilings, including access hatches per Phase.
16. Relocate/modify fire sprinkler system as needed per Phase.
17. New duct chase in Day Room.
18. Patch and repair existing bathrooms hard ceilings.

**The following items are clarifications of items provided in the drawings.**

1. A-300 – Please note that the platform material of construction is galvanized steel. Contractor is responsible for removing any existing concrete pads and providing new per S-100.
2. A-300 – Detail 1 and 2. Remove requirement to furnish and install R19 blown-insulation over hard ceiling/batt over ACT.
3. M-201 – Remodel Notes. The existing kitchen makeup air system shall remain except that a new ceiling diffuser is to be provided and the contractor shall modify the ductwork as required to install the new diffuser.

# # #

**Attachment A – Cost Schedule**

<b>Cost Schedule</b>					
City of Naples Fire Station #2 HVAC Improvements					
<b>HVAC Construction/Installation</b>					
ITEM	DESCRIPTION	QUANTITY	UNIT	BASE COST	UPGRADE COST *
1	Demolition	1	LS	\$ -	\$ -
2	HVAC equipment (Trane TCC A/C)	1	LS	\$ -	\$ -
3	Ducts, Registers, Dampers	1	LS	\$ -	\$ -
4	Electrical	1	LS	\$ -	\$ -
5	Light Fixtures Material	1	LS	\$ -	\$ -
6	Light Fixture Installation	1	LS	\$ -	\$ -
7	New Ceilings	1	LS	\$ -	\$ -
8	Fire Sprinkler Modifications	1	LS	\$ -	\$ -
7	Duct Chase in Day Room	1	LS	\$ -	\$ -
8	Other items	1	LS	\$ -	\$ -
9	Permits	1	LS	\$ -	\$ -
10	General Condition	1	LS	\$ -	\$ -
11	City Controlled Allowance			\$ 20,000.00	\$ 20,000.00
	TOTAL			\$ -	\$ -
<p><b>* NOTE 1:</b> The upgraded bid is the incremental additional cost to provide Trane THC A/C equipment (high efficiency), including any and all modifications incremental increase to utilize high efficiency units. See project description.</p>					
<p>The City may choose to proceed with award on base bid or upgraded bid, depending on what is in the best interest of the City.</p>					

Company Name: \_\_\_\_\_

EIN: \_\_\_\_\_

Email: \_\_\_\_\_

Name and Title of individual completing this schedule:

\_\_\_\_\_  
 (Printed Name) (Title)

X \_\_\_\_\_  
 (Signature) (Date)



amec  
foster  
wheeler

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www.amec.com

ARCHITECT OF RECORD

REVISION SCHEDULE

No.	DESCRIPTION	DATE

# Naples Fire-Rescue Department Station #2 Interior Renovation (Ceilings and HVAC) 977 26th Ave North, Naples, FL 34103 100% CONSTRUCTION DOCUMENTS

## CITY OF NAPLES PROJECT TRACKING No. 16E22

### Attachment B - Project Plan Documents

#### INDEX OF DRAWINGS

##### GENERAL

SHEET NO	SHEET NAME	CURRENT REV.
CS-000	COVER	
G-000	GENERAL NOTES	

##### SURVEY

SHEET NO	SHEET NAME	CURRENT REV.
SU-000	SURVEY	
SD-100	SITE DEMOLITION PLAN	

##### ARCHITECTURE

SHEET NO	SHEET NAME	CURRENT REV.
D-100	DEMOLITION CEILING PLAN	
A-100	SITE PLAN / FLOOR PLAN	
A-200	CEILING PLAN	
A-300	DETAILS / SPECIFICATIONS	
A-400	SPECIFICATIONS	
A-401	SPECIFICATIONS	

##### STRUCTURAL

SHEET NO	SHEET NAME	CURRENT REV.
S-100	PAC PLATFORM AND SLAB DESIGN	

##### MECHANICAL

SHEET NO	SHEET NAME	CURRENT REV.
M-000	HVAC SYMBOLS, GENERAL NOTES & INDEX	
M-101	FIRST FLOOR HVAC PLAN - DEMOLITION	
M-201	FIRST FLOOR HVAC PLAN - REMODEL WORK	
M-401	MECHANICAL DETAILS	
M-402	MECHANICAL DETAILS	
M-601	MECHANICAL SPECIFICATIONS	

##### ELECTRICAL

SHEET NO	SHEET NAME	CURRENT REV.
E-000	ELECTRICAL SYMBOLS, GENERAL NOTES & INDEX	
E-101	FIRST FLOOR LIGHTING PLAN - DEMOLITION	
E-102	FIRST FLOOR POWER PLAN - DEMOLITION	
E-201	FIRST FLOOR LIGHTING PLAN - REMODEL WORK	
E-202	FIRST FLOOR POWER PLAN - REMODEL WORK	
E-301	PARTIAL FIRST FLOOR PLAN - KITCHEN REMODEL	
E-401	ELECTRICAL DETAILS	
E-501	ELECTRICAL SCHEDULES	
E-601	ELECTRICAL SPECIFICATIONS	

#### PROJECT TEAM

ARCHITECT OF RECORD  
Santiago Jimenez, R.A.  
Amec Foster Wheeler (305) 286-5588

PROJECT MANAGER  
Casar A. Rullier, Assoc. AIA, CPTED  
Amec Foster Wheeler (305) 286-5588

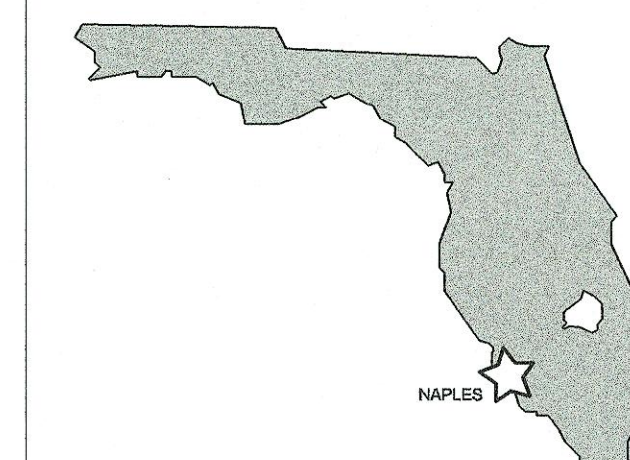
ENGINEER OF RECORD / STRUCTURAL  
Augusto Poitevin, PE  
Amec Foster Wheeler (305) 286-5588

ENGINEER OF RECORD / MEP  
Gregory Johnson, PE  
AWS Solutions, Inc. (407) 260-0231

#### SCOPE OF WORK

PROVIDE THE CITY OF NAPLES WITH DESIGN DOCUMENTS FOR THE DEMOLITION AND REPLACEMENT OF INTERIOR SOFFITS, CEILING AND LIGHTING, HVAC SYSTEM, DUCTWORK AND DIFFUSERS FOR FIRE RESCUE DEPARTMENT STATION #2. THIS IS A TYPE II ALTERATION.

#### PROJECT LOCATION



*06-19-17*  
SANTIAGO JIMENEZ, R.A.  
AR-94369

#### PROJECT LOCATION



Naples Fire-Rescue Department Station #2  
977 26th Ave North, Naples, FL 34103

#### APPLICABLE CODES

ZONING CODE:  
COLLIER COUNTY

BUILDING CODE:  
FLORIDA BUILDING CODE 5TH EDITION 2014

ACCESSIBILITY CODE:  
FLORIDA BUILDING CODE 5TH EDITION 2014 - ACCESSIBILITY

FIRE CODE:  
FLORIDA FIRE PREVENTION CODE 5TH EDITION

LIFE SAFETY:  
NFPA 101

MECHANICAL / PLUMBING CODE:  
FLORIDA BUILDING CODE 5TH EDITION 2014

ELECTRICAL CODE:  
N.E.C. 2014

#### PROJECT TEAM

DESIGNER  
AMEC FOSTER WHEELER

BIM / DRAWINGS BY:  
CR/GT

CHECKED BY:  
CR

### Naples Fire Station #2 Int. Renovation (Ceilings / HVAC)

6788-17-2974  
100% CD 06-19-17

PROJECT NUMBER | STATUS |  
ISSUE DATE

#### COVER

SCALE: As indicated

**CS-000**  
SHEET NUMBER







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foster  
wheeler

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ARCHITECT OF RECORD

REVISION SCHEDULE

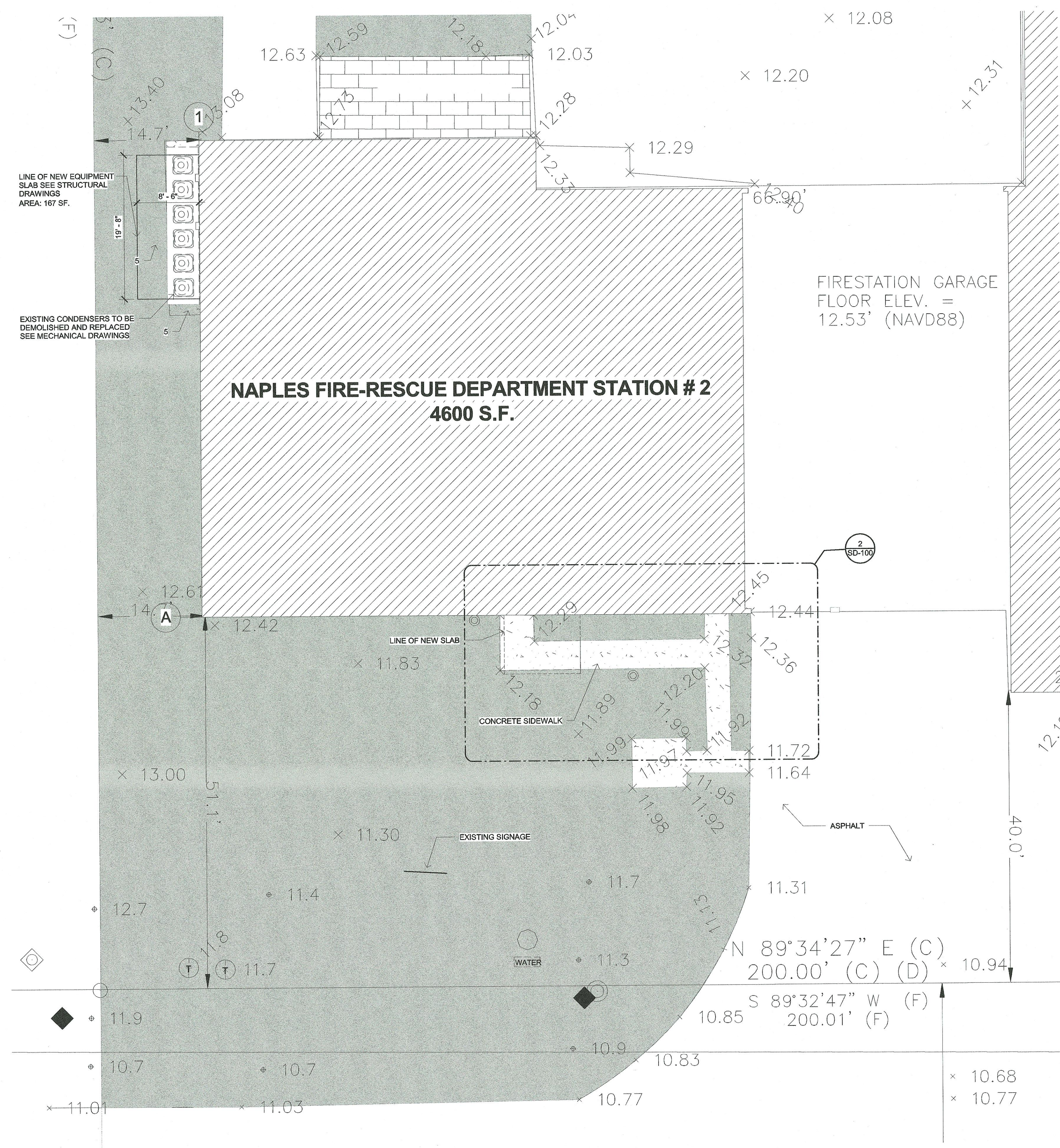
No.	DESCRIPTION	DATE

**SITE DEMOLITION KEY NOTES**

- G.C. TO REPLACE DAMAGED GRASS WITH NEW SOD.
- SOIL MUST BE COMPACTED AND LEVELED TO RECEIVE NEW CONCRETE SLAB.
- SAW CUT CONCRETE SLAB PERPENDICULAR TO LINE OF THE BUILDING.
- DEMOLISH SIDE WALK AS SHOWN.
- DEMOLISH GRASS/TURF/GRAVEL AS REQUIRED TO INSTALL NEW CONCRETE SLAB.

**GENERAL SOIL PREP. NOTES**

- PROVIDE 8 INCH MINIMUM LIMEROCK BASE DEPTH, UNLESS SOFT SOILS OR ORGANICS ARE PRESENT.
- PROVIDE 12 INCH LIMEROCK BASE. CLEAN THE UNDERLYING SUBGRADE OF ALL FOREIGN SUBSTANCES, CORRECT RUTS AND SOFT YIELDING SPOTS THAT APPEAR IN THE UNDERLYING COURSE.
- COMPACT LIMEROCK BASE TO 98 PERCENT OF MAXIMUM DRY UNIT WEIGHT, ACCORDING TO ASTM D 698.



**1** EXISTING DEMO SITE PLAN  
1/8" = 1'-0"

**2** SIDEWALK DEMO ENLARGED PLAN  
3/16" = 1'-0"

*SJ*  
06-19-17  
SANTIAGO JIMENEZ, R.A.  
AR-94369

**PROJECT TEAM**  
DESIGNER  
AMEC FOSTER WHEELER  
BIM / DRAWINGS BY:  
CR/GT  
CHECKED BY:  
CR

**Naples Fire Station #2**  
**Int. Renovation**  
**(Ceilings / HVAC)**  
6788-17-2974  
100% CD 06-19-17

PROJECT NUMBER | STATUS |  
**SITE DEMOLITION**  
**PLAN**

SCALE: As indicated

**SD-100**  
**SHEET NUMBER**



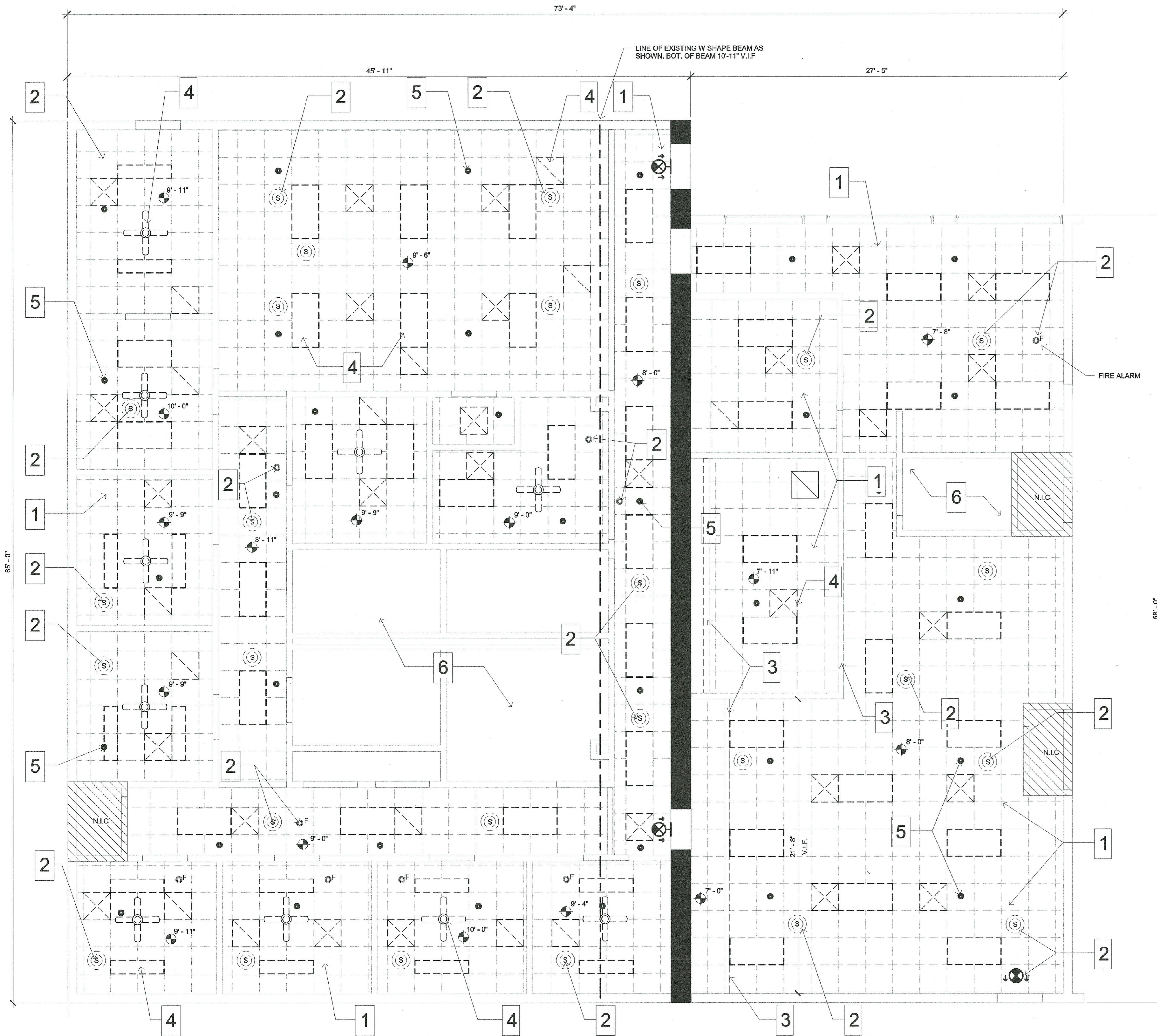
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ARCHITECT OF RECORD

REVISION SCHEDULE

No.	DESCRIPTION	DATE



1 CEILING AND GRID DEMO PLAN  
1/4" = 1'-0"

### SYMBOL LEGEND

- EXISTING FIRE SEPARATION WALL
- EXISTING WALL / PARTITION TO REMAIN
- EXISTING SOFFIT / PARTITION TO BE DEMOLISHED
- EXISTING LIGHTING FIXTURE TO BE DEMOLISHED  
SEE ELECTRICAL DRAWINGS
- EXISTING DIFFUSER / REGISTER TO BE DEMOLISHED  
SEE MECHANICAL DRAWINGS
- EXISTING CEILING FAN TO BE DEMOLISHED
- 24" X 24" ACT AND GRID TO BE DEMOLISHED
- EXISTING SPEAKER TO BE REMOVED AND STORED FOR REINSTALLATION
- EXISTING HORN TO BE REMOVED AND STORED FOR REINSTALLATION
- DENOTES AREA NOT IN CONTRACT

### GENERAL DEMOLITION NOTES

- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF CONDITIONS AND QUANTITIES AND NOTIFY IN WRITING THE A/E TEAM AND THE CITY OF NAPLES PROJECT MANAGER OF ANY DISCREPANCIES FOUND.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY EXISTING DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR IS TO EXERCISE DUE CARE DURING THE DEMOLITION AND REMOVAL PHASE, TO ASSURE THAT ITEMS SCHEDULED FOR DEMOLITION AND REMOVAL ARE PROPERLY REMOVED WITHOUT DAMAGE TO THE SURROUNDING AREA(S).
- ITEMS SCHEDULED TO BE RELOCATED OR TO REMAIN ARE TO BE COORDINATED WITH THE OWNER AND ARE TO BE SUBSEQUENTLY PROTECTED FROM DAMAGE.
- CONTRACTOR TO REMOVE EXISTING CEILING MOUNTED EQUIPMENT INCLUDING BUT NOT LIMITED TO SPEAKERS, ALARMS, MOTION SENSORS, STROBE LIGHTS, CEILING FANS AND SPRINKLER HEADS, AS NEEDED TO COMPLETE WORK AND STORE THEM FOR LATER RE-INSTALLATION.
- ALL ITEMS THAT ARE CALLED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF AS REQUIRED BY LOCAL AND STATE CODES AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL CAREFULLY EXECUTE ALL WORK TO AVOID UNNECESSARY DAMAGE TO EXISTING ITEMS INDICATED TO REMAIN IN PLACE INCLUDING BUT NOT LIMITED TO CEILING TILES, EXISTING LIGHT FIXTURES, HVAC DUCTS, WALL AND FLOOR FINISHES, EXISTING BUILT-IN CABINETS OTHER FURNITURE, FIXTURES AND EQUIPMENT.
- FINAL PLACEMENT OF ALL SAFETY DEVICES IS TO BE COORDINATED WITH THE FACILITY USER AND THE CITY OF NAPLES PROJECT MANAGER AS APPLICABLE FOR THIS PARTICULAR PROJECT.
- THE CONTRACTORS SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PATCHING AND RE-FINISHING ANY DAMAGED SURFACES AS A DIRECT OR INDIRECT RESULT OF THIS WORK. MATCH EXISTING FINISHES AND PAINT ALL SURFACES AFFECTED BY THE NEW CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT THE EXISTING INTERIOR FINISHES NOT SCHEDULED TO BE REMOVED OR DEMOLISHED.

### DEMOLITION KEY NOTES:

1. DEMOLISH ALL CEILING TILES, BATT INSULATION AND GRID IN ENTIRE BUILDING AS SHOWN.
2. DISCONNECT AND REMOVE EXISTING CEILING HOSTED SPEAKERS, STROBES, HORNS, EMERGENCY LIGHTS, EXIT LIGHTS AND TEMPORARILY STORE THEM FOR REINSTALLATION DURING THE CONSTRUCTION OF NEW CEILING.
3. DEMOLISH EXISTING CEILING BULKHEADS, HEADERS AND SOFFITS AS SHOWN. PATCH AND REPAIR ADJACENT WALLS.
4. DEMOLISH EXISTING CEILING FANS, LIGHTING, REGISTERS AND DIFFUSERS.
5. SPRINKLER HEADS SHALL BE ADJUSTED / MODIFIED AS REQUIRED TO FIT WITHIN NEW CEILING. LIGHTING AND EQUIPMENT LAYOUT. GENERAL CONTRACTOR SHALL COORDINATE THE RELOCATION OF EXISTING LINES TO AVOID INTERFERENCES WITH NEW HVAC DUCT, LIGHTING FIXTURES AND CEILING MOUNTED EQUIPMENT.
6. DEMOLISH DIFFUSERS AND REGISTERS. HARD CEILINGS TO REMAIN. PATCH AND REPAIR.

*SJM*  
06-19-17  
SANTIAGO JIMENEZ, R.A.  
AR-94369

PROJECT TEAM  
DESIGNER  
AMEC FOSTER WHEELER  
BIM / DRAWINGS BY:  
CR/GT  
CHECKED BY:  
CR

**Naples Fire Station #2  
Int. Renovation  
(Ceilings / HVAC)**  
6788-17-2974  
100% CD 06-19-17

PROJECT NUMBER | STATUS |  
**DEMOLITION CEILING PLAN**  
SCALE: 1/4" = 1'-0"  
**D-100**  
SHEET NUMBER



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ARCHITECT OF RECORD

REVISION SCHEDULE

No.	DESCRIPTION	DATE

**SYMBOL LEGEND**

- EXISTING FIRE SEPARATION WALL
- EXISTING WALL / PARTITION
- NEW OPENING ON EXISTING WALL
- NEW WALL / PARTITION
- EXISTING SINGLE LEAF DOOR

DENOTES AREA NOT IN CONTRACT

**NEW FINISH NOTES:**

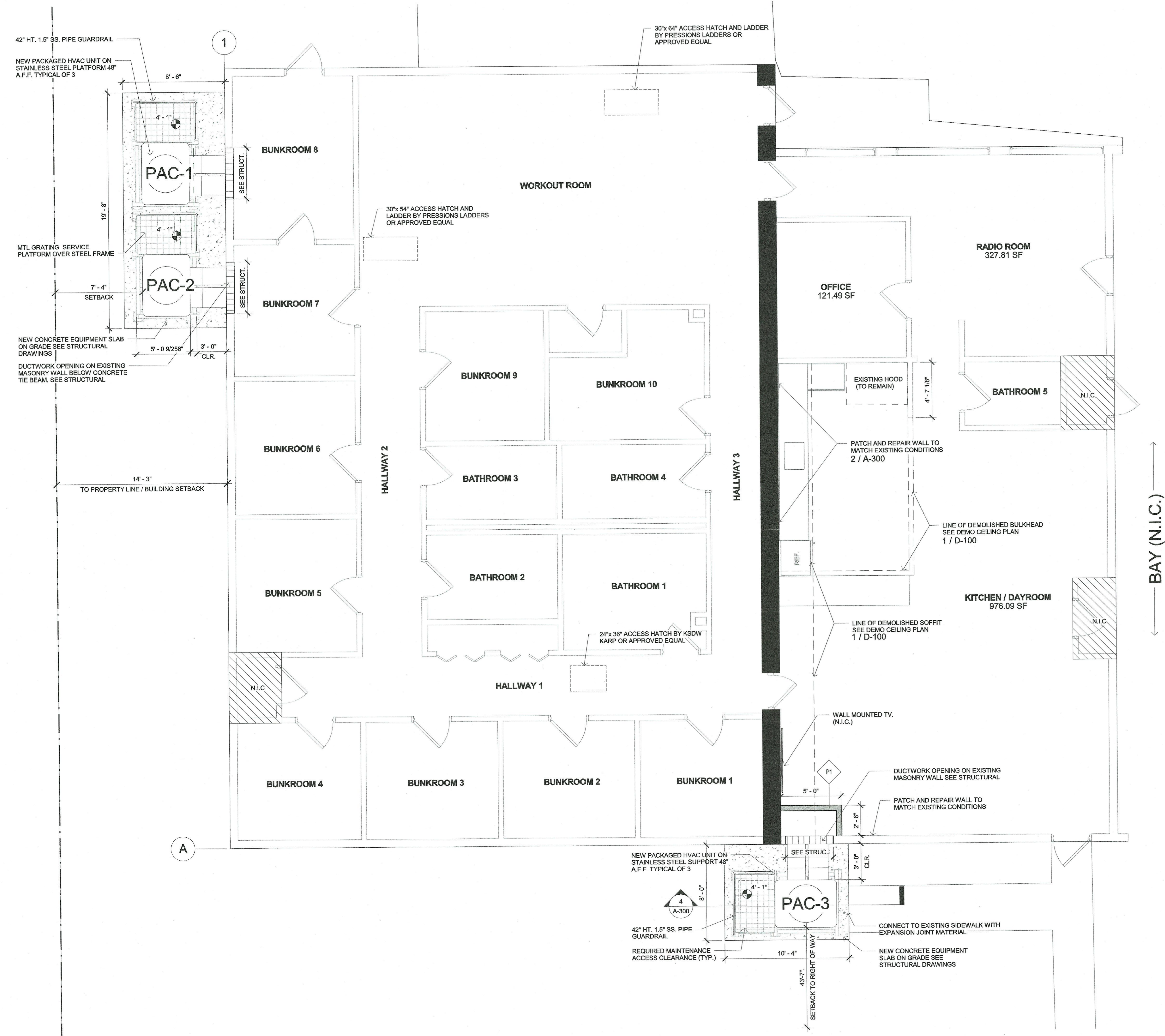
1. PROTECT ALL KITCHEN CASEWORK, COUNTERS AND EQUIPMENT
2. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE NEW WALL FINISH LAYER AND CEILINGS.
3. WALL FINISH LAYER EXTEND 6" MIN. ABOVE NEW ATC CEILING.
4. WALL FINISH LAYER SHELL MEET NEW GYPSUM CEILING APPLY CONTINUOUS SEALANT AT JOINTS.
5. NEW TUBULAR STEEL PLATFORM TO PAINTED WITH SHERWIN WILLIAMS MACROPOXY 464 OR APPROVED EQUAL

**WALL OPENING NOTES**

1. HEIGHT, SIZE AND LOCATION OF NEW DUCTWORK OPENINGS ON MASONRY WALLS SHALL BE COORDINATED BY GENERAL CONTRACTOR.
2. CONTRACTOR SHALL PROVIDE PROPER FLASHING AND SEAL AT OPENINGS.
3. CONTRACTOR TO PATCH AND REPAIR SURROUNDING WALL AND PAINT WITH SW 6107 / SW 7084 AS APPLICABLE TO MATCH EXISTING CONDITIONS.

**FACILITY OPERATIONS**

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION SEQUENCING AS TO MAINTAIN THE OVERALL OPERATION OF THE STATION. NORMAL OPERATION NOT BE IMPACTED BY CONSTRUCTION TASK. THIS FACILITY SHALL REMAIN OPERATIONAL.
2. KITCHEN IS TO REMAIN OPERATIONAL DURING THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE AND PROVIDE POWER FOR KITCHEN APPLIANCES / REFRIGERATOR DURING THE UPGRADE OF ELECTRICAL OUTLETS. IT IS SUGGESTED THAT THE CONTRACTOR PROVIDES A 20A. EXTENSION CORD FROM AN UNAFFECTED PART OF THE BUILDING (SEE ELECTRICAL DRAWINGS).



**1 SITE PLAN / FLOOR PLAN**  
1/4" = 1'-0"

*Santiago Jimenez, R.A.*  
06-19-17  
SANTIAGO JIMENEZ, R.A.  
AR-94369

**PROJECT TEAM**  
**DESIGNER**  
AMEC FOSTER WHEELER / CR  
**BIM / DRAWINGS BY:**  
CR/GT  
**CHECKED BY:**  
CR/SJ

**Naples Fire Station #2 Int. Renovation (Ceilings / HVAC)**  
6788-17-2974  
100% CD 06-19-17

PROJECT NUMBER | STATUS |  
**SITE PLAN / FLOOR PLAN**

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

**A-100**  
**SHEET NUMBER**



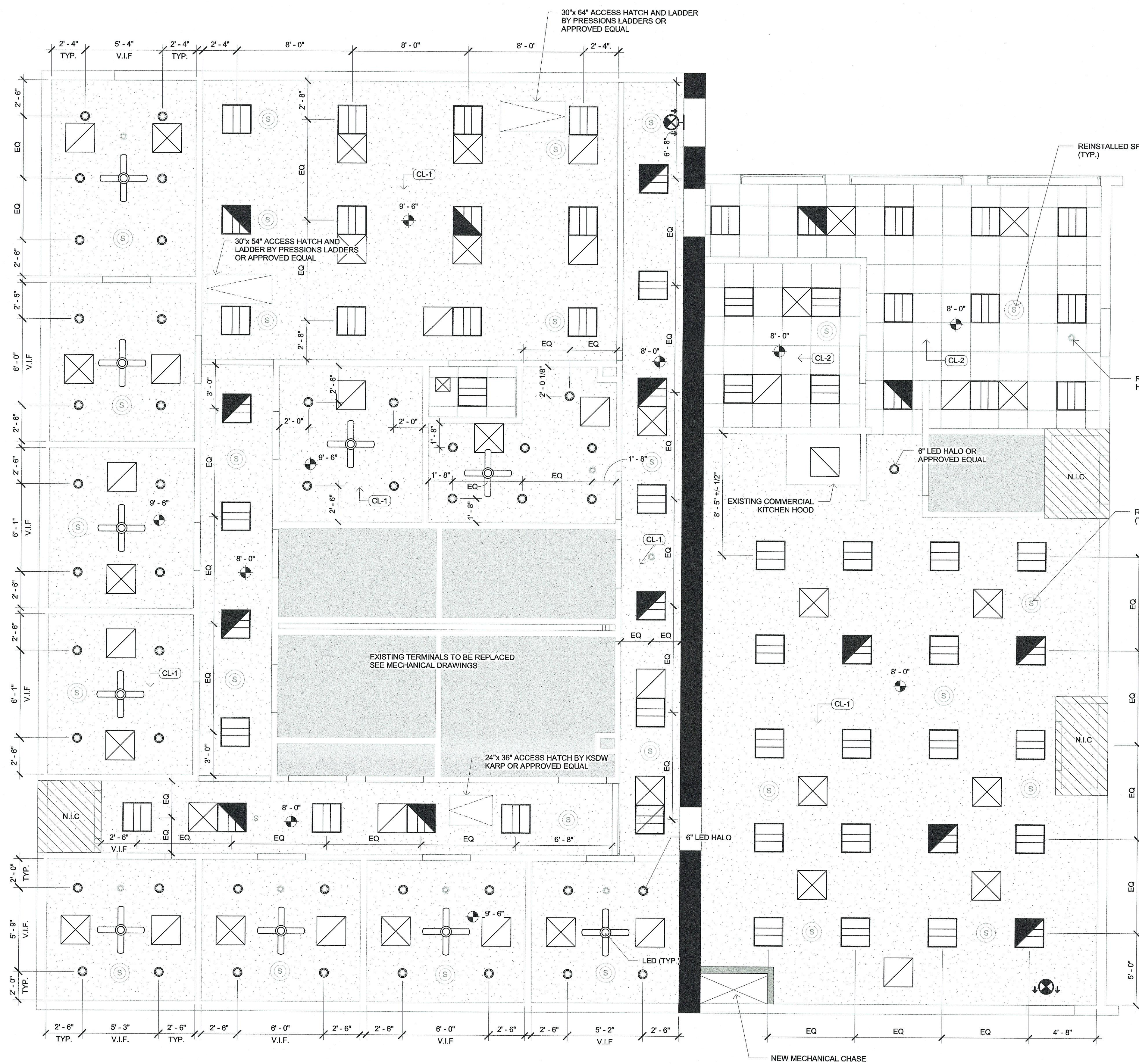
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www.amec.com

ARCHITECT OF RECORD

REVISION SCHEDULE

No.	DESCRIPTION	DATE



SYMBOL LEGEND

- NEW 6" LED RECESSED CAN LIGHTING FIXTURE
- NEW 6" LED RECESSED CAN LIGHTING FIXTURE (EMERGENCY BATTERY BACKUP)
- NEW 24 X 24 LED LIGHTING FIXTURE
- NEW 24 X 24 LED LIGHTING FIXTURE (EMERGENCY BATTERY BACKUP)
- NEW 56" BLADE CEILING FAN WITH CENTER LED LIGHTING FIXTURE
- REINSTALLED SPEAKER (PREVIOUSLY EXISTING)
- REINSTALLED FIRE HORN (PREVIOUSLY EXISTING)
- NEW 24" X 24" ACT AND GRID (STANDARD NON-RATED)
- NEW GYPSUM BOARD CEILING (STANDARD NON-RATED)
- EXISTING GYPSUM BOARD CEILING TO REMAIN (SEE MECHANICAL DWGS. FOR NEW DIFFUSER REPLACEMENT)
- NEW HVAC DIFFUSER (SEE MECHANICAL DRAWINGS)
- NEW HVAC REGISTER (SEE MECHANICAL DRAWINGS)
- NEW CEILING ACCESS HATCH
- EMERGENCY EXIT SIGN (WALL MOUNTED) FINAL LOCATION TO BE DETERMINED BY FIRE MARSHAL HAVING JURISDICTION (NOT SHOWN)
- EMERGENCY EXIT SIGN (CEILING MOUNTED) FINAL LOCATION TO BE DETERMINED BY FIRE MARSHAL HAVING JURISDICTION (NOT SHOWN)

NEW CEILING NOTES:

1. ALL LIGHTING FIXTURES TO PREVENT AIRFLOW TO PLENUM.
2. GENERAL CONTRACTOR SHALL COORDINATE ALL CEILING ITEMS WITH MEP, FIRE PROTECTION, AND LOW VOLTAGE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
3. ALL CEILING GRIDS TO BE CENTERED IN ROOMS UNLESS OTHERWISE NOTED. GRIDS IN IRREGULARLY SHAPED SPACES SHALL BE INSTALLED AS SHOWN ON ARCHITECTS PLANS.

NEW CEILING AREA	
24X24 ACCOUSTICAL TILE	443 SF
GWB - HARD CEILINGS	3282 SF

CEILING FINISHES SCHEDULE		
MARK	MODEL	DESCRIPTION
CL-1	SW 7006	CEILING EXTRA WHITE INT. PAINT
CL-2	ARMSTRONG	ACT 24" x 24" 15/16" TEGULAR

*Santiago Jimenez, R.A.*  
06-19-17  
SANTIAGO JIMENEZ, R.A.  
AR-94369

PROJECT TEAM

DESIGNER  
CR  
BIM / DRAWINGS BY:  
CR  
CHECKED BY:  
CR

**Naples Fire Station #2  
Int. Renovation  
(Ceilings / HVAC)**

6788-17-2974  
100% CD 06-19-17

PROJECT NUMBER | STATUS |  
ISSUE DATE

CEILING PLAN

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

**A-200**  
SHEET NUMBER

1 NEW REFLECTED CEILING PLAN  
1/4" = 1'-0"



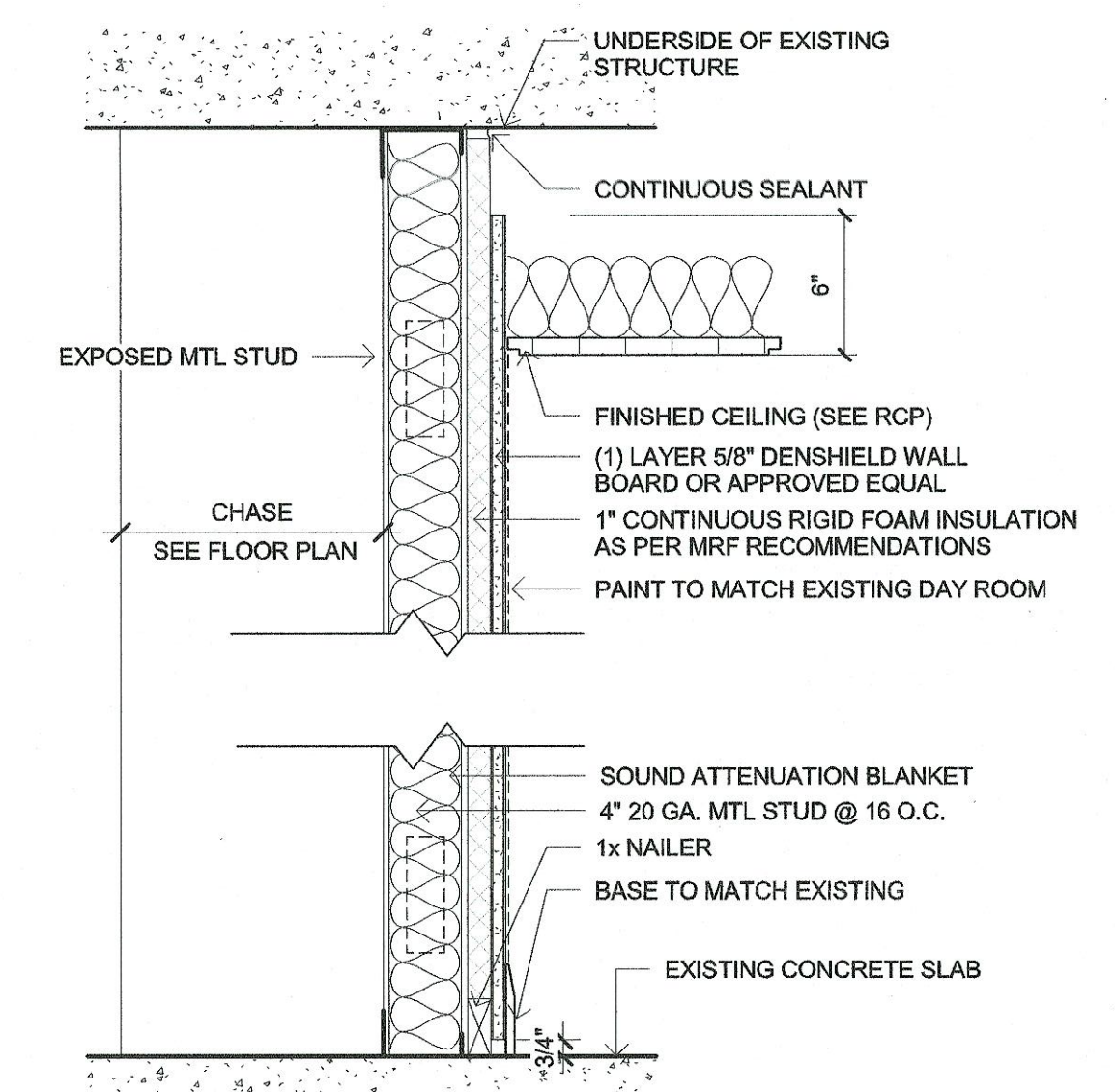
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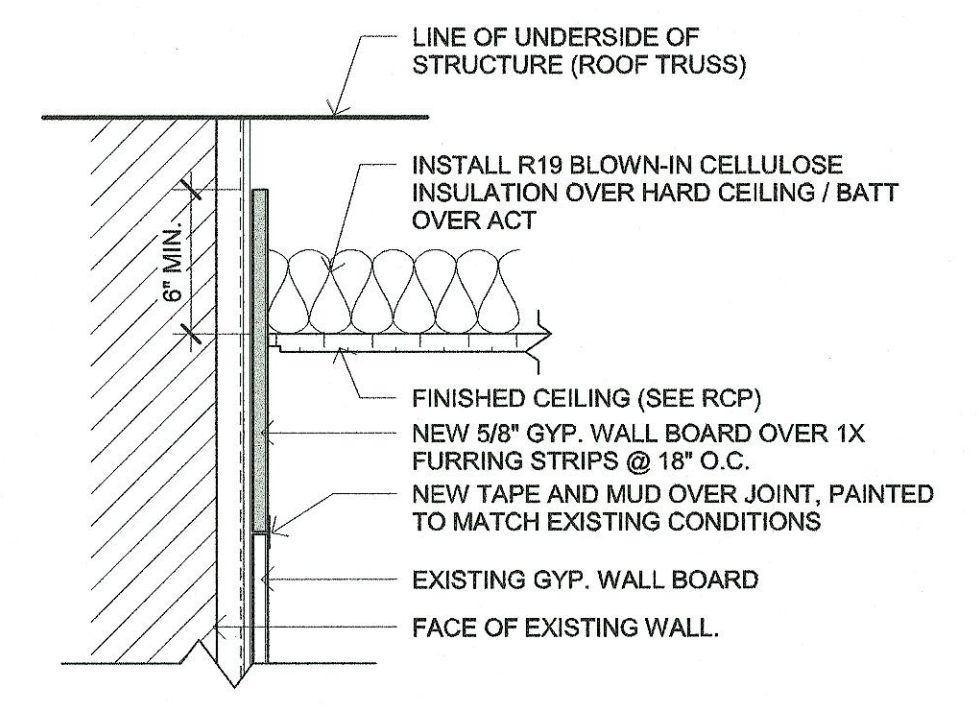
ARCHITECT OF RECORD

REVISION SCHEDULE

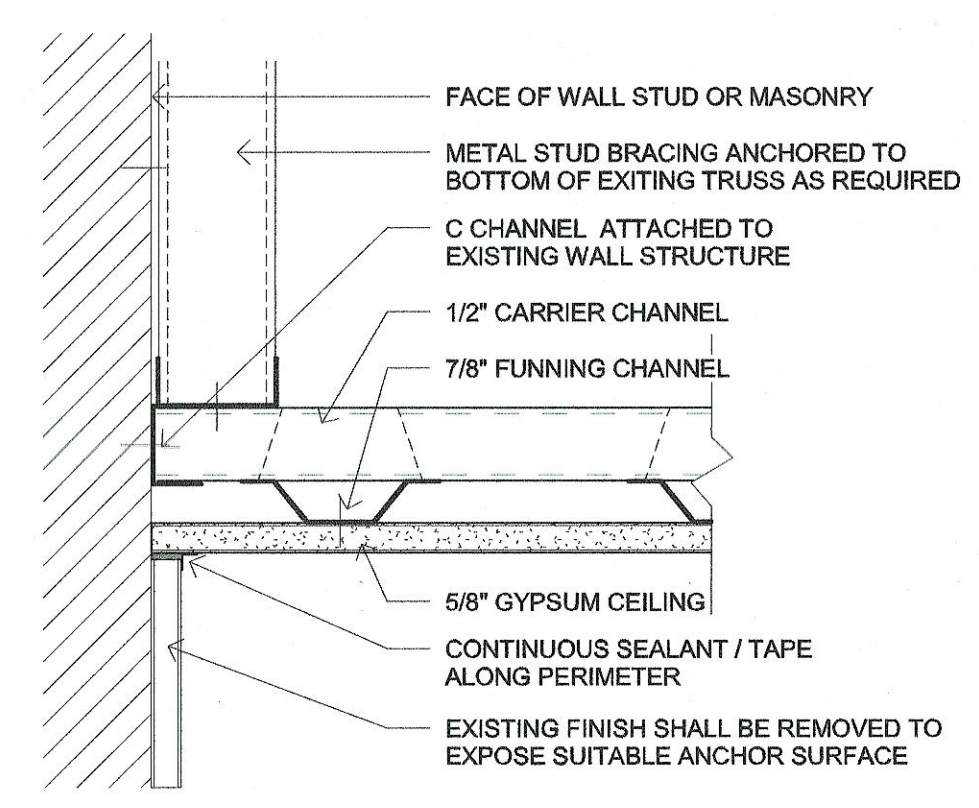
No.	DESCRIPTION	DATE



1 P1 - NEW CHASE WALL  
1 1/2" = 1'-0"

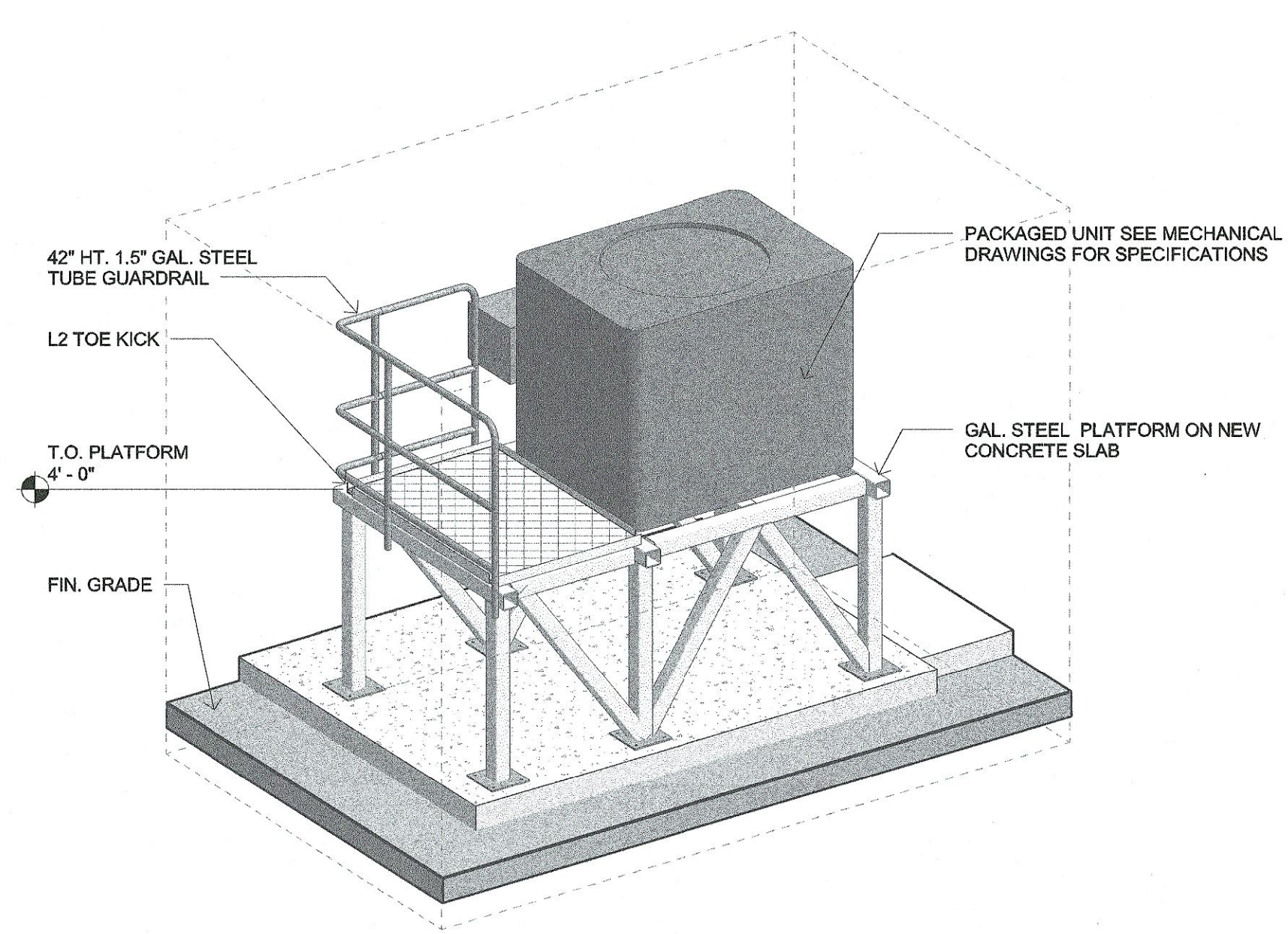


2 NEW DRYWALL FINISH DETAIL  
1 1/2" = 1'-0"

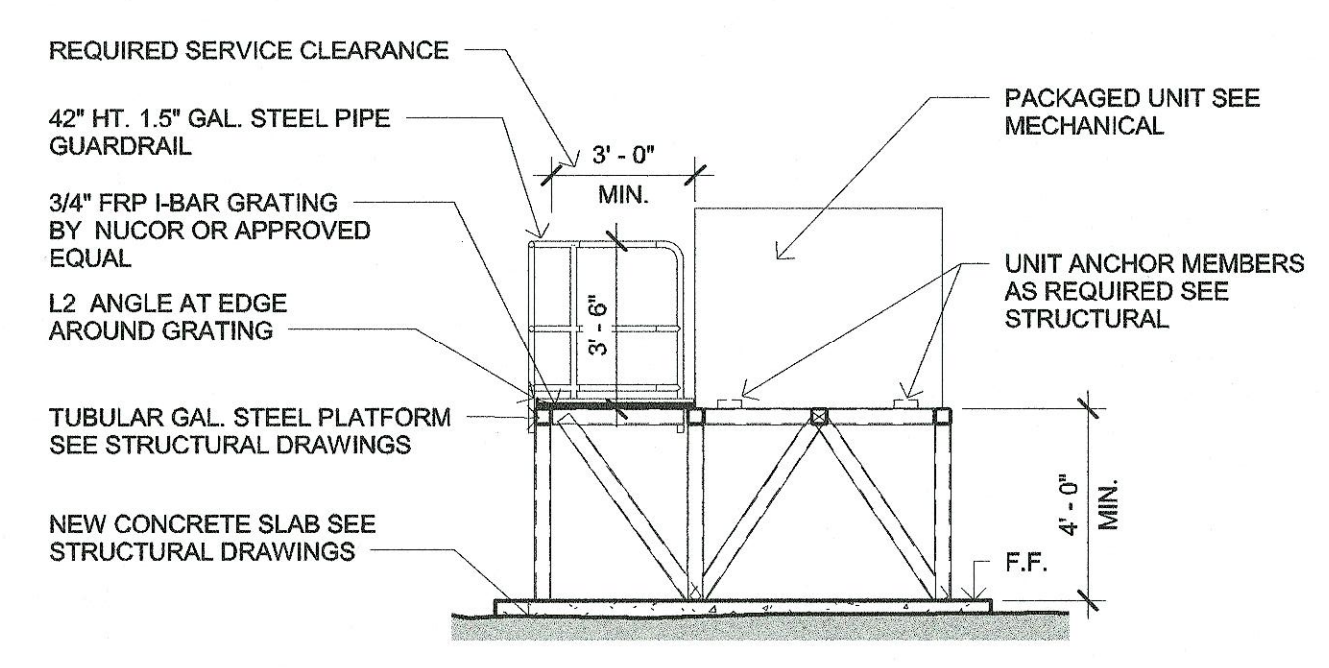


3 HARD CEILING DETAIL - TYP  
3" = 1'-0"

**NOTE**  
ALL EXTERIOR GAL. STEEL STRUCTURES TO RECEIVE ONE COAT OF PRIMER AND SYNTHETIC 2 COATS OF PAINT. COLOR TO BE SELECTED BY CITY OF NAPLES PROJECT MANAGER FROM MRF. FULL COLOR SAMPLE.



5 TYP. HVAC PLATFORM



4 TYPICAL HVAC PLATFORM DETAIL  
1/4" = 1'-0"

*SJM*  
06-19-17  
SANTIAGO JIMENEZ, R.A.  
AR-94369

PROJECT TEAM  
DESIGNER  
AMEC FOSTER WHEELER  
BIM / DRAWINGS BY:  
CR/GT  
CHECKED BY:  
CR

**Naples Fire Station #2 Int. Renovation (Ceilings / HVAC)**  
6788-17-2974  
100% CD 06-19-17  
PROJECT NUMBER | STATUS |  
**DETAILS / SPECIFICATIONS**

SCALE: As indicated

**A-300**  
SHEET NUMBER



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ARCHITECT OF RECORD

REVISION SCHEDULE

No.	DESCRIPTION	DATE

SANTIAGO JIMENEZ, R.A.  
AR-94369

06-19-17

PROJECT TEAM

DESIGNER

AMEC FOSTER WHEELER / CR

BIM / DRAWINGS BY:

CR

CHECKED BY:

CR/SJ

**Naples Fire Station #2 Int. Renovation (Ceilings / HVAC)**

**6788-17-2974 100% CD 06-19-17**

PROJECT NUMBER | STATUS | ISSUE DATE

**SPECIFICATIONS**

SCALE:

**A-400**  
**SHEET NUMBER 31**

### SECTION 024116 - STRUCTURE DEMOLITION

#### PART 1 - GENERAL

##### 1.1 SUMMARY

###### A. Section Includes:

- Demolition and removal of buildings and site improvements.

##### 1.2 INFORMATIONAL SUBMITTALS

- Schedule of building demolition with starting and ending dates for each activity.

##### 1.3 PROJECT CONDITIONS

- Arrange demolition schedule so as not to interfere with Owner's on-site operations.

#### PART 2 - PRODUCTS

##### 2.1 SOIL MATERIALS

- Satisfactory Soils: Existing

#### PART 3 - EXECUTION

##### 3.1 EXAMINATION

- Verify that utilities have been disconnected and capped before starting demolition operations.

##### 3.2 PREPARATION

- Existing Utilities: Locate, identify, disconnect, and seal or cap off indicated utilities serving buildings and structures to be demolished.

##### 3.3 PROTECTION

- Existing Facilities: Protect adjacent walkways, building entries, and other building facilities during demolition operations. Maintain exits from existing buildings.
- Existing Utilities: Maintain utility services to remain and protect from damage during demolition operations. Do not interrupt existing utilities serving adjacent occupied or operating facilities unless authorized in writing by Owner and authorities having jurisdiction.
- Remove temporary barriers and protections where hazards no longer exist. Where open excavations or other hazardous conditions remain, leave temporary barriers and protections in place.

##### 3.4 DEMOLITION

- General: Demolish indicated buildings and site improvements completely. Use methods required to complete the Work within limitations of governing regulations.
- Site Access and Temporary Controls: Conduct building demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
  - Do not close or obstruct walks, walkways, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.
  - Use water mist and other suitable methods to limit spread of dust and dirt. Comply with governing environmental-protection regulations.

END OF SECTION 024116

### SECTION 024119 - SELECTIVE DEMOLITION

#### PART 1 - GENERAL

##### 1.1 DEFINITIONS

- Remove and Reinstall: Detach items from existing construction, prepare for reuse, and reinstall where indicated.
- Existing to Remain: Existing items of construction that are not to be permanently removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

##### 1.2 FIELD CONDITIONS

- Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
  - Before selective demolition, Owner will remove the following items:
    - Personal Items and Belongings.
- Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
  - If suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials shall be removed under a separate contract.
- Safe of removed items or materials on-site is not permitted. Items shall be returned to Owner.
- Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
  - Maintain fire-protection facilities in service during selective demolition operations.

#### PART 2 - PRODUCTS

#### PART 3 - EXECUTION

##### 3.1 EXAMINATION

- Verify that utilities have been disconnected and capped before starting selective demolition operations.
- Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.

##### 3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
- Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.
  - If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
  - Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated to be removed.
    - Equipment to Be Removed: Disconnect and cap services and remove equipment.
    - Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
    - Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
  - Refrigerant: Remove refrigerant from mechanical equipment to be selectively demolished according to 40 CFR 82 and regulations of authorities having jurisdiction.

##### 3.3 PREPARATION

- Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities as well as access and operation of the apparatus bay.

##### 3.4 SELECTIVE DEMOLITION, GENERAL

- General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
  - Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
  - Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
  - Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
  - Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
  - Dispose of demolished items and materials promptly.
- Removed and Reinstalled Items:
  - Clean and repair items to functional condition adequate for intended reuse.
  - Pack or crate items after cleaning and repairing. Identify contents of containers.
  - Protect items from damage during transport and storage.
  - Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.
- Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When indicated in the plans, items shall be removed to a suitable, protected storage location during selective demolition and reinstalled in their original locations after selective demolition operations are complete.

##### 3.5 DISPOSAL OF DEMOLISHED MATERIALS

- General: Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and legally dispose of them in an EPA-approved landfill.
  - Do not allow demolished materials to accumulate on-site.
  - Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- Disposal: Transport demolished materials off Owner's property and legally dispose of them.

##### 3.6 CLEANING

- Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 024119

### SECTION 054000 - COLD-FORMED METAL FRAMING

#### PART 1 - GENERAL

##### 1.1 SUMMARY

###### A. Section Includes:

- Interior non-load-bearing wall framing exceeding height limitations of standard, nonstructural metal framing.

##### 1.2 ACTION SUBMITTALS

- Product Data: For each type of product.

##### 1.3 INFORMATIONAL SUBMITTALS

- Welding certificates.
- Product certificates.
- Product test reports.

#### PART 2 - PRODUCTS

##### 2.1 PERFORMANCE REQUIREMENTS

- Cold-Formed Steel Framing Standards: Unless more stringent requirements are indicated, framing shall comply with AISI S100, AISI S200, and the following:
  - Wall Studs: AISI S211.
  - Headers: AISI S212.
  - Lateral Design: AISI S213.
- Fire-Resistance Ratings: Comply with ASTM E 119; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

##### 2.2 INTERIOR NON-LOAD-BEARING WALL FRAMING

- Steel Studs: Manufacturer's standard C-shaped steel studs, of web depths indicated, punched, with stiffened flanges, and as follows:
  - Minimum Base-Metal Thickness: 0.0428 inch (1.09 mm).
  - Flange Width: 2 inches (51 mm).
- Steel Track: Manufacturer's standard U-shaped steel track, of web depths indicated, unpunched, with unstiffened flanges, and matching minimum base-metal thickness of steel studs.

##### 2.3 FRAMING ACCESSORIES

- Fabricate steel-framing accessories from ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated steel sheet, of same grade and coating designation used for framing members.
- Provide accessories of manufacturer's standard thickness and configuration, unless otherwise indicated.

##### 2.4 ANCHORS, CLIPS, AND FASTENERS

- Anchor Bolts: ASTM F 1554, Grade 55, threaded carbon-steel carbon-steel nuts, and flat, hardened-steel washers; zinc coated by .
- Mechanical Fasteners: ASTM C 1513, corrosion-resistant-coated, self-drilling, self-tapping, steel drill screws.
  - Head Type: Low-profile head beneath sheathing; manufacturer's standard elsewhere.

##### 2.5 MISCELLANEOUS MATERIALS

- Galvanizing Repair Paint.

#### PART 3 - EXECUTION

##### 3.1 PREPARATION

- Before sprayed fire-resistive materials are applied, attach continuous angles, supplementary framing, or tracks to structural members indicated to receive sprayed fire-resistive materials.
  - After applying sprayed fire-resistive materials, remove only as much of these materials as needed to complete installation of cold-formed framing without reducing thickness of fire-resistive materials below that required to obtain fire-resistance ratings indicated. Protect remaining fire-resistive materials from damage.
  - Install load-bearing shims or grout between the underside of load-bearing wall bottom track and the top of foundation wall or slab at locations with a gap larger than 1/4 inch (6 mm) to ensure a uniform bearing surface on supporting concrete or masonry construction.
  - Install sealer gaskets at the underside of wall bottom track or rim track and at the top of foundation wall or slab at stud or joist locations.
- INSTALLATION, GENERAL
    - Cold-formed steel framing may be shop or field fabricated for installation, or it may be field assembled.
    - Install cold-formed steel framing according to AISI S200, AISI S202, and manufacturer's written instructions unless more stringent requirements are indicated.
    - Install cold-formed steel framing and accessories plumb, square, and true to line, and with connections securely fastened.
    - Install framing members in one-piece lengths unless splice connections are indicated for track or tension members.
    - Install temporary bracing and supports to secure framing and support loads equal to those for which structure was designed. Maintain braces and supports in place, undisturbed, until entire integrated supporting structure has been completed and permanent connections to framing are secured.
    - Do not bridge building expansion joints with cold-formed steel framing. Independently frame both sides of joints.
    - Install insulation, specified in Section 072100 "Thermal Insulation," in framing-assembly members, such as headers, sills, boxed joists, and multiple studs at openings, that are inaccessible on completion of framing work.
    - Fasten hole-reinforcing plate over web penetrations that exceed size of manufacturer's approved or standard punched openings.

##### 3.3 INTERIOR NON-LOAD-BEARING WALL INSTALLATION

- Install continuous tracks sized to match studs. Align tracks accurately and securely anchor to supporting structure.
- Fasten both flanges of studs to top and bottom track unless otherwise indicated. Space studs as follows:
  - Stud Spacing: 12 inches (305 mm).
- Set studs plumb, except as needed for diagonal bracing or required for non-plumb walls or warped surfaces and similar requirements.
- Install horizontal bridging in wall studs, spaced vertically in rows more than 48 inches (1220 mm) apart. Fasten at each stud intersection.
  - Channel Bridging: Cold-rolled steel channel, welded or mechanically fastened to webs of punched studs.
  - Strap Bridging: Combination of flat, taut, steel sheet straps of width and thickness indicated and stud-track solid blocking of width and thickness to match studs. Fasten flat straps to stud flanges and secure solid blocking to stud webs or flanges.
  - Bar Bridging: Proprietary bridging bars installed according to manufacturer's written instructions.
- Top Bridging for Single Deflection Track: Install row of horizontal bridging within 18 inches (450 mm) of single deflection track. Install a combination of bridging and stud or stud-track solid blocking of width and thickness matching studs, secured to stud webs or flanges.
- Install miscellaneous framing and connections, including stud kickers, web stiffeners, clip angles, continuous angles, anchors, and fasteners, to provide a complete and stable wall-framing system.

##### 3.4 ERECTION TOLERANCES

- Install cold-formed steel framing level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in 10 feet (1:960) and as follows:
  - Space individual framing members no more than plus or minus 1/8 inch (3 mm) from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.

##### 3.6 REPAIRS AND PROTECTION

- Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed cold-formed steel framing with galvanizing repair paint according to ASTM A 780/A 780M and manufacturer's written instructions.

END OF SECTION 054000





# GENERAL STRUCTURAL NOTES

- A. CODES AND STANDARDS**  
 THE FOLLOWING CODES AND STANDARDS SHALL APPLY TO THE DESIGN, CONSTRUCTION, AND QUALITY CONTROL OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE. SAFETY AND CONSTRUCTION MEANS AND METHODS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 2014 FLORIDA BUILDING CODE - BUILDING
  - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE/SEI 7-10), AMERICAN SOCIETY OF CIVIL ENGINEERS
  - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-11), AMERICAN CONCRETE INSTITUTE
  - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-08), AMERICAN CONCRETE INSTITUTE
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION

- B. DESIGN DATA**
- EQUIPMENT LOAD 482 LBS
  - WIND DESIGN DATA
    - ULTIMATE DESIGN WIND SPEED (3-SECOND GUST) 175 MPH
    - RISK CATEGORY II
    - EXPOSURE CATEGORY C
    - EXPOSURE CLASSIFICATION - ENCLOSED
    - INTERNAL PRESSURE COEFFICIENT - GCpl = +0.18

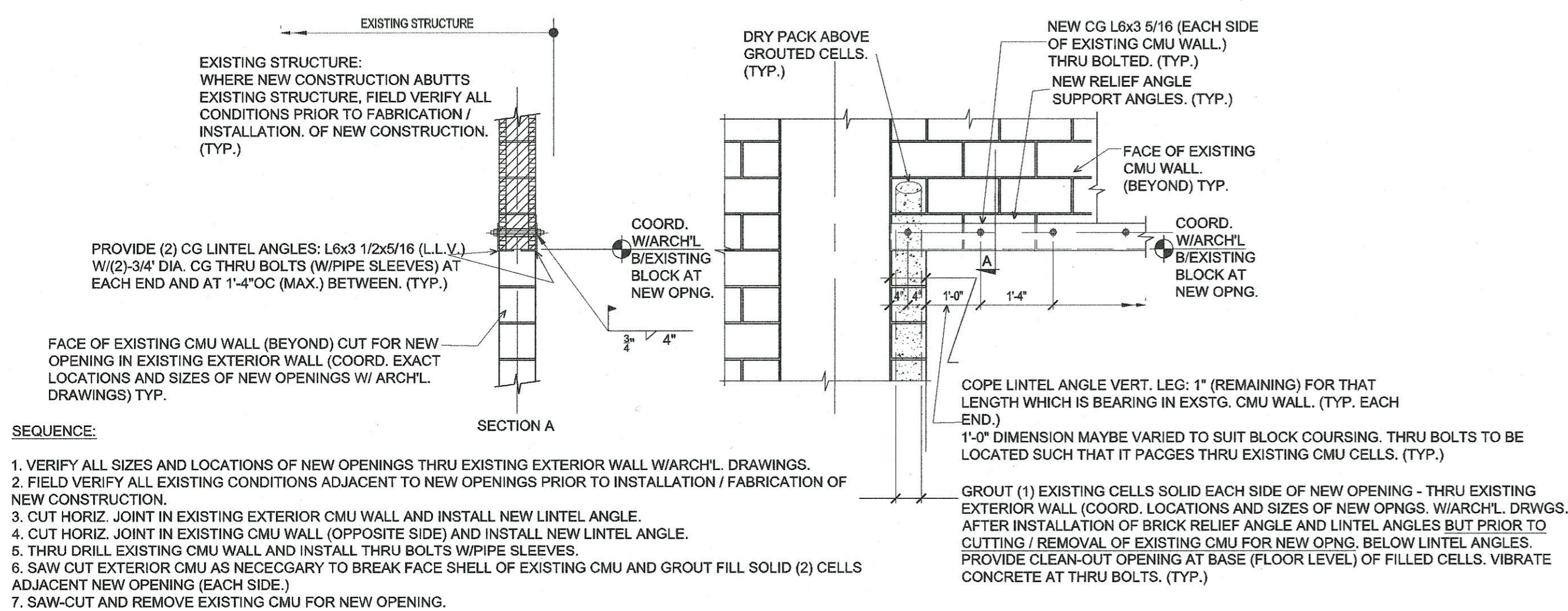
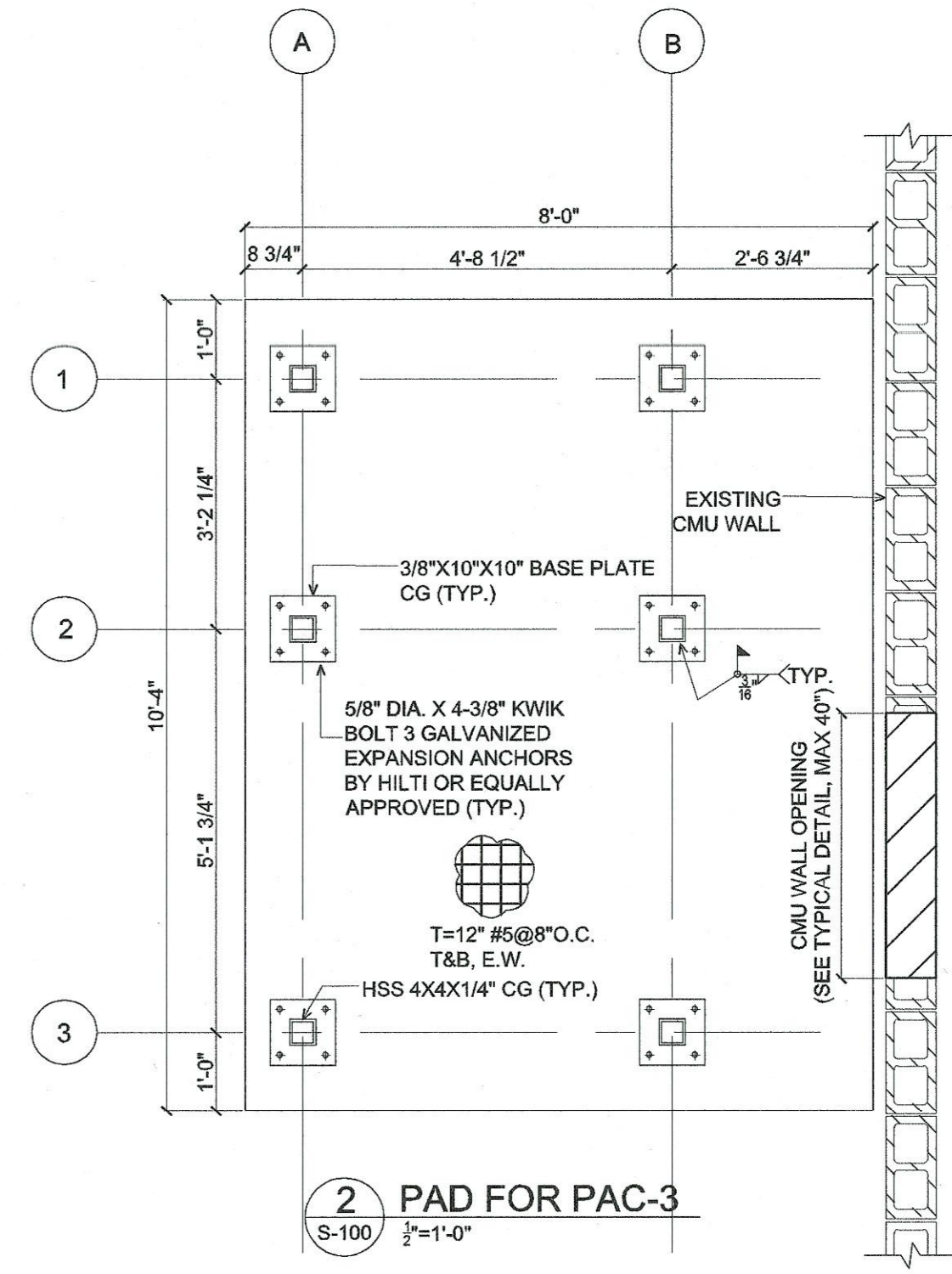
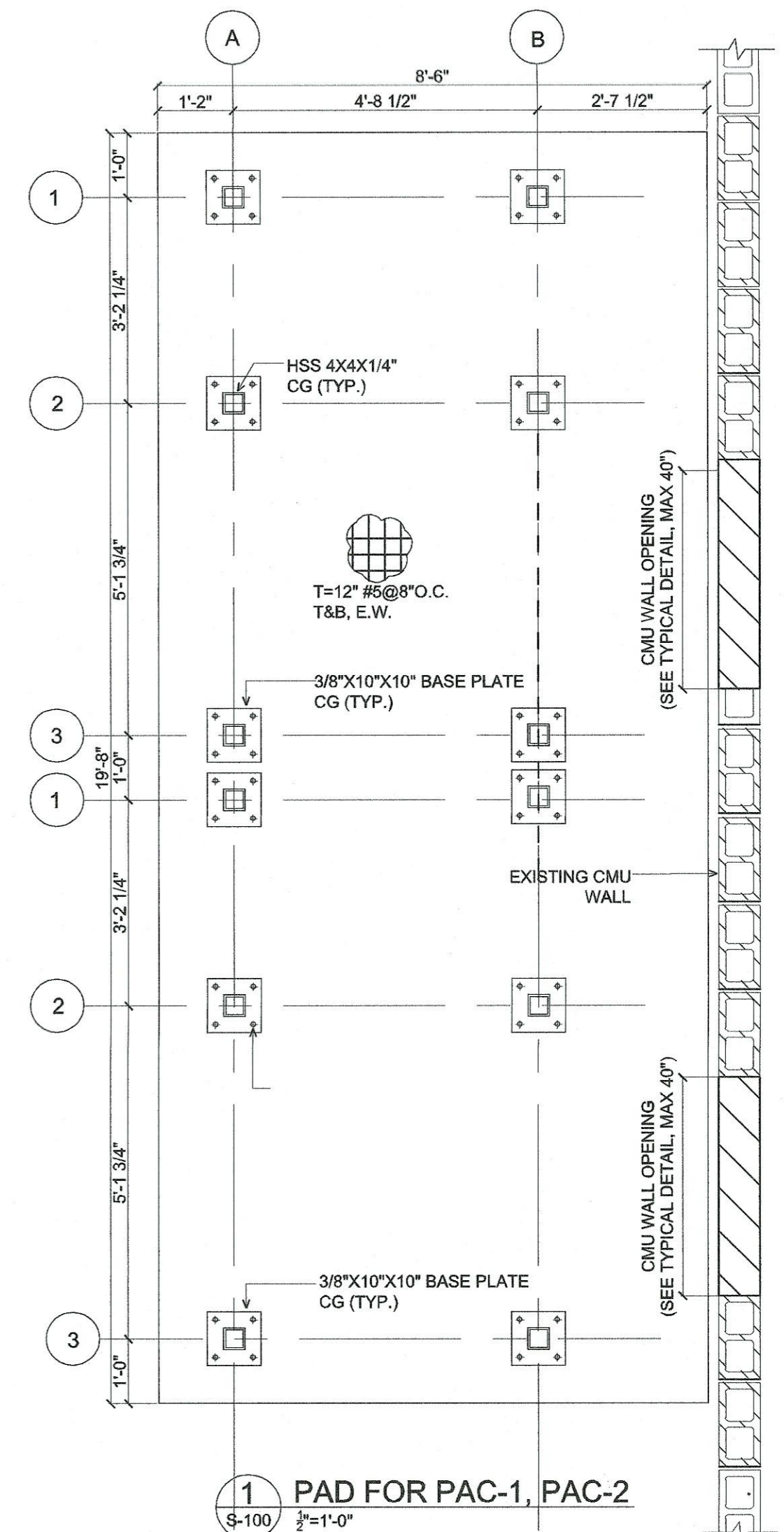
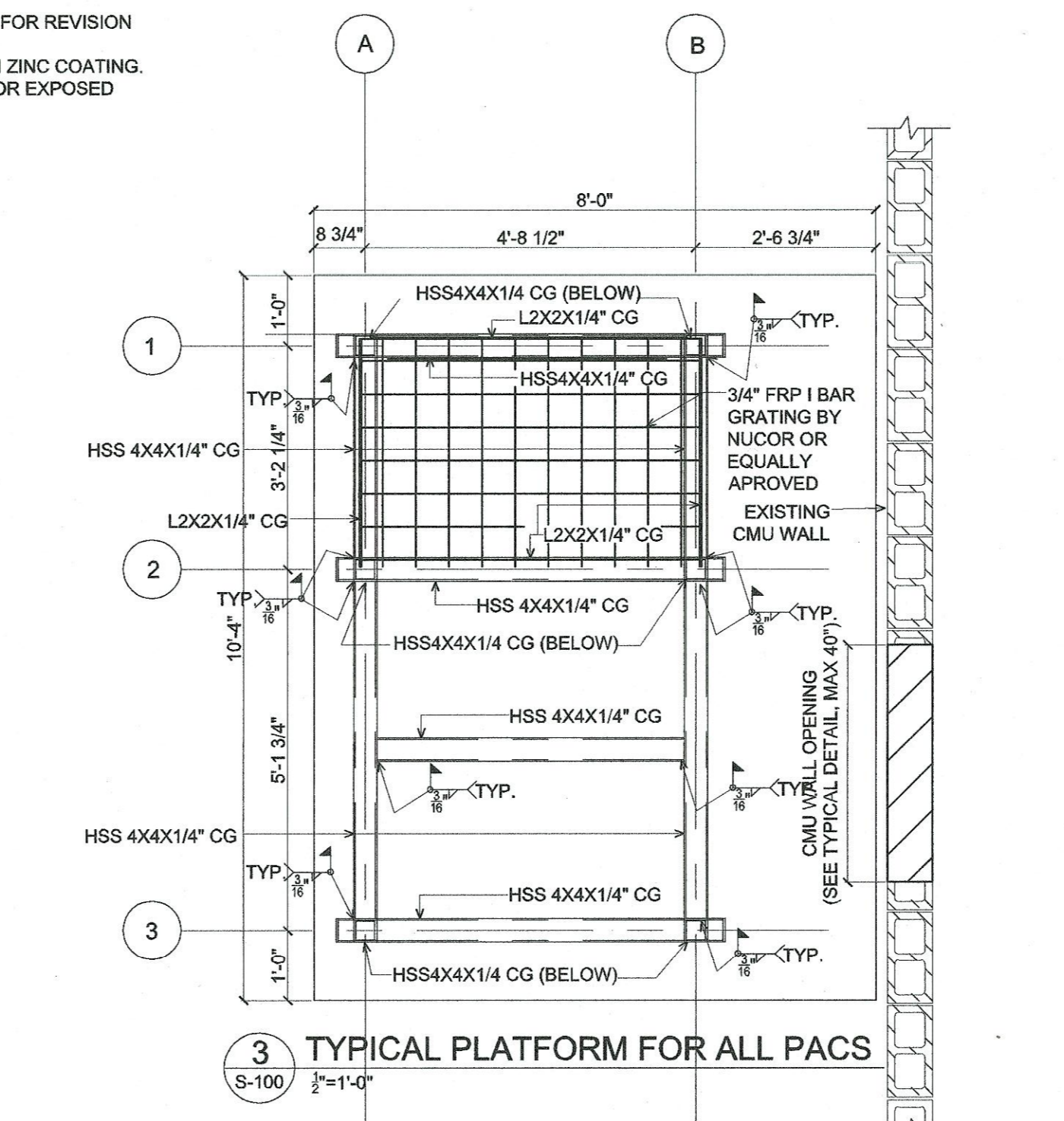
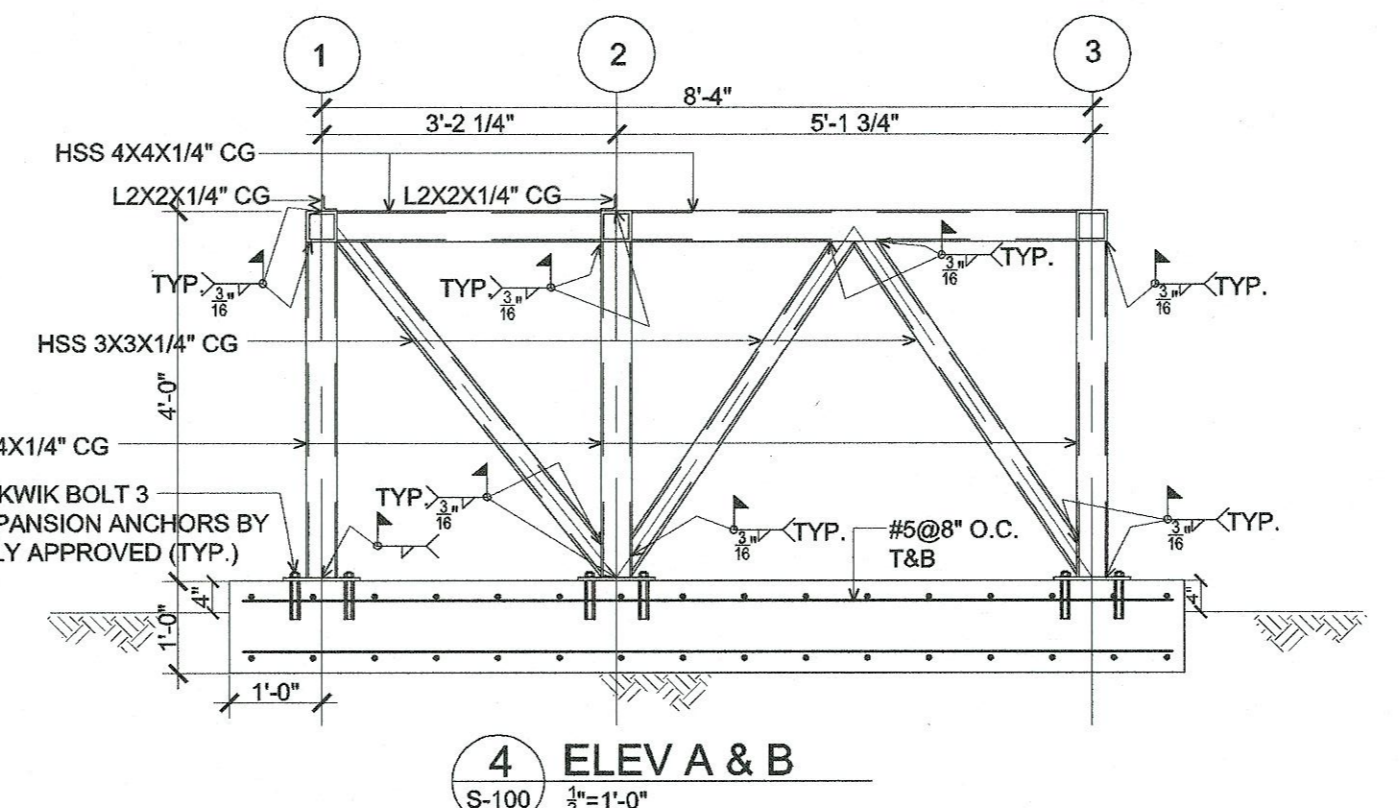
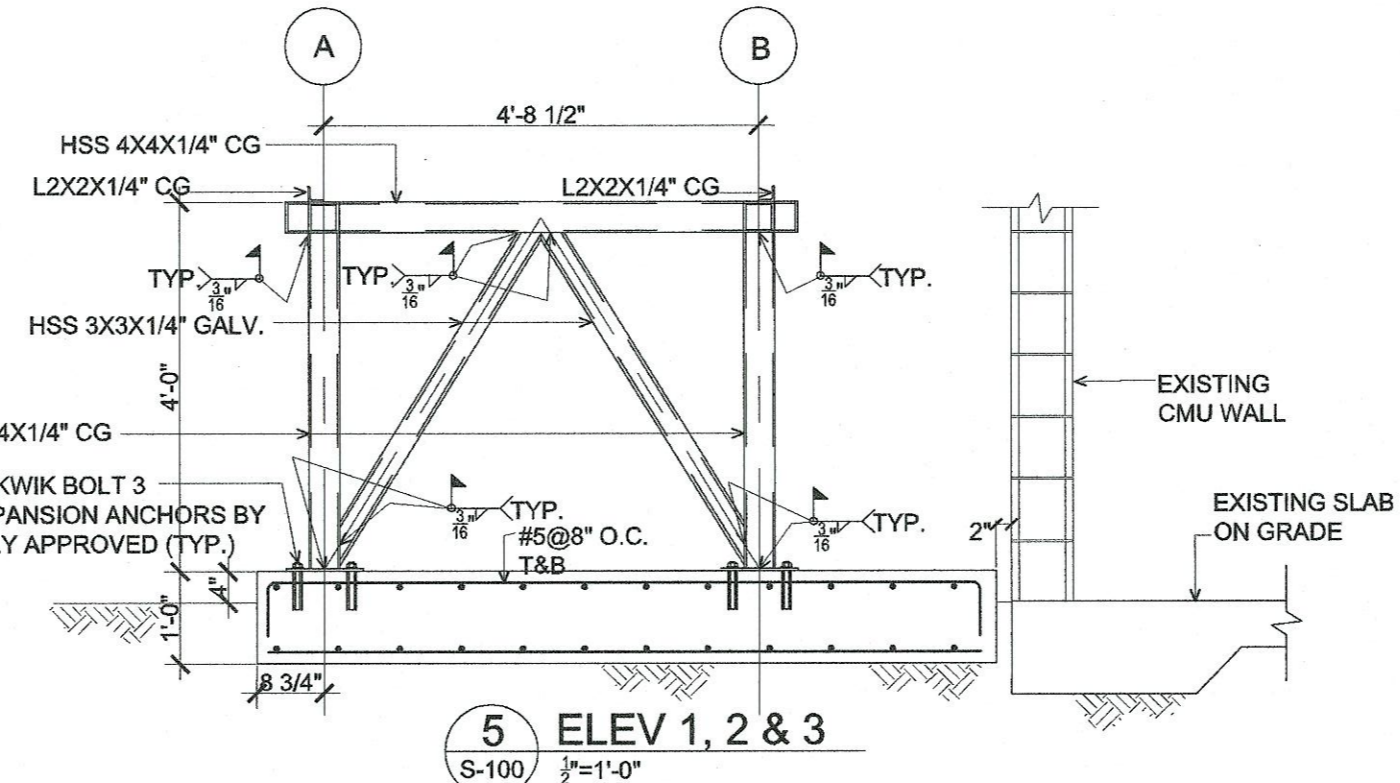
- C. FOUNDATIONS**
- FOUNDATIONS PLACED ON UNDISTURBED SOIL OR ON PROPERLY PLACED AND COMPACTED GRANULAR FILL AT ELEVATIONS INDICATED HAVE BEEN DESIGNED FOR AN ALLOWABLE NET BEARING PRESSURE OF 2000 PSF. CONTRACTOR IS RESPONSIBLE OF VERIFYING THE SOIL CAPACITY ASSUMED.
  - TOP OF FOOTING 4" ABOVE GROUND.

- D. MATERIALS**  
 THE FOLLOWING ASTM STANDARDS AND DESIGN STRESSES SHALL BE USED FOR THE APPROPRIATE MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT.
- CEMENT: ASTM C150, TYPE III
  - CONCRETE:  $f_c = 3000$  PSI BELOW GRADE, 4000 PSI MIN. ABOVE GRADE.
  - REINFORCEMENT: DEFORMED REINFORCING BARS - GRADE 60
  - STEEL
    - STRUCTURAL STEEL WIDE FLANGE AND TEE SECTIONS: ASTM A992, F<sub>y</sub> = 50 KSI
    - STRUCTURAL ANGLES, CHANNELS & PLATES: ASTM A36
    - ROUND HOLLOW STRUCTURAL SHAPES: ASTM A500, GRADE B, F<sub>y</sub> = 42 KSI
    - RECTANGULAR HOLLOW STRUCTURAL SHAPES: ASTM A500, GRADE B, F<sub>y</sub> = 46 KSI
    - HIGH STRENGTH BOLTS: ASTM A325-N OR TC-TYPE
    - WELDING ELECTRODES: AWS 5.1 OR A5.5, E70XX
  - MASONRY
    - CONCRETE MASONRY UNITS  
HOLLOW - ASTM C90, TYPE 1, GRADE N, MINIMUM COMPRESSIVE STRENGTH ON NET AREA = 2000 PSI  
SOLID - ASTM C145
    - MORTAR: ASTM C270, TYPE M (BELOW GRADE), TYPE S (ABOVE GRADE)
    - GROUT: ASTM C476; MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = 3000 PSI

- E. CONCRETE**
- CAST-IN-PLACE:
    - REINFORCING STEEL CLEAR COVER SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:  
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"  
CONCRETE EXPOSED TO EARTH OR WEATHER:  
#6 BARS AND SMALLER: 1 1/2"  
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:  
SLABS, WALLS, JOISTS: 3/4"  
BEAMS, COLUMNS: 1 1/2"
  - SUBMIT MATERIAL TEST REPORTS FROM A QUALIFIED TESTING AGENCY DEMONSTRATING THAT TEST RESULTS FOR TRIAL MIX BATCHES FOR EACH CONCRETE MIX DESIGN COMPLY WITH ACI 301.
  - A MINIMUM OF 5 CONCRETE SPECIMENS SHALL BE TAKEN FROM EACH 50 CUBIC YARDS OR PORTION THEREOF. SPECIMENS SHALL BE TESTED ACCORDING TO ASTM C39. TEST TWO AT 7 DAYS AND THREE AT 28 DAYS. REFER TO FBC 2014 EDITION.
  - SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.
  - PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS OF ALL TOP BARS.
  - WHERE REINFORCING IS SHOWN CONTINUOUS, SPLICE BOTTOM BARS OVER SUPPORTS AND TOP BARS AT CENTER OF SPAN. ALL OTHER LAP SPLICES SHALL BE IN ACCORDANCE WITH SPLICE TABLES, DETAILS SHOWN ON DRAWINGS OR AS SPECIFIED ON THE NOTES.

- F. MASONRY**
- ALL WALL SECTIONS AND PIERS LESS THAN 4 SQUARE FEET IN CROSS-SECTIONAL AREA ARE TO BE FULLY GROUTED OR OF 100% SOLID MASONRY UNITS.
  - SUBMIT GROUT MIX DESIGN AND MASONRY CERTIFICATIONS TO STRUCTURAL ENGINEER FOR APPROVAL.
  - CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SUPPORT FOR ALL MASONRY WORK UNTIL PERMANENT CONSTRUCTION IS IN PLACE.
  - PRISM STRENGTH OF MASONRY:  $f_m = 2000$  PSI
  - MAXIMUM HEIGHT OF GROUT POUR SHALL BE 4'-0" (LOW LIFT GROUTING)
  - MASONRY SHALL BE PLACED IN A RUNNING BOND PATTERN.

- NOTES:**
- CG= COLD GALVANIZED SPRAY ZINC COATED.
  - ALL WELDING TO E70XX FOR STEEL CG.
  - REFER TO GENERAL NOTES FOR STEEL TYPE. ALL STEEL TO BE SPRAY ZINC COATED 2.5-3 MILS MINIMUM.
  - IN CASE OF ANY DISCREPANCIES NOTIFY THE ARCHITECT OF RECORD.
  - CONTRACTOR SO SUBMIT SHOP DRAWINGS FOR REVISION PRIOR TO FABRICATION.
  - BOLT HOLES TO TAKE INTO CONSIDERATION ZINC COATING.
  - PERIODIC MAINTENANCE RECOMMENDED FOR EXPOSED STEEL STRUCTURES.



**6 LINTEL FOR NEW OPENING AT EXISTING CMU WALL**  
 S-100 1/2"=1'-0"

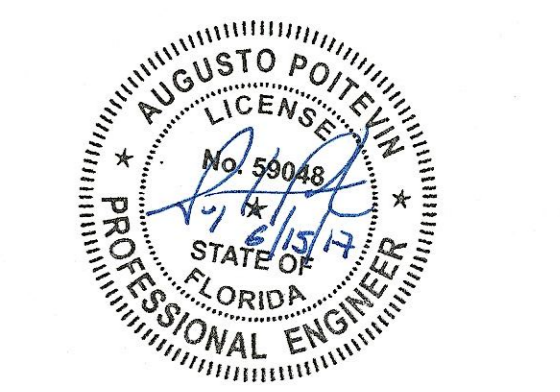
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ARCHITECT OF RECORD

REVISION SCHEDULE

No.	DESCRIPTION	DATE



AUGUSTO POITEVIN  
 PE 59048

**PROJECT TEAM**

**DESIGNER**  
 AMEC FOSTER WHEELER / CR

**BIM / DRAWINGS BY:**  
 CR/AP

**CHECKED BY:**  
 CR/AP

**Naples Fire Station #2 Int. Renovation (Ceilings / HVAC)**

6788-17-2974  
 100% CD 06-19-17

PROJECT NUMBER | STATUS | ISSUE DATE

**FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"

**S-100**  
**SHEET NUMBER**

## GENERAL NOTES

- PLANS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO INDICATE CAPACITY, SIZE, LOCATION, DIRECTION, AND GENERAL ARRANGEMENT, BUT NOT EXACT DETAILS OF CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL DUCT AND HVAC EQUIPMENT LOCATIONS.
- CONTRACTOR TO VERIFY THAT HVAC EQUIPMENT SHALL HAVE ADEQUATE CLEARANCE FROM OTHER EQUIPMENT AND BUILDING FEATURES FOR MAINTENANCE AND GENERAL ACCESS. MAINTAIN MANUFACTURERS RECOMMENDED SERVICE CLEARANCES.
- IN GENERAL, ALL PIPING AND DUCTWORK SHALL BE RUN IN THE CEILING SPACE AND AS HIGH AS POSSIBLE, UNLESS OTHERWISE NOTED OR INDICATED ON THE PLANS.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED.
- THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
- PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH AIR HANDLING UNIT AND OUTSIDE AIR UNIT.
- ANY EXISTING WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED OR DAMAGED DURING THE COURSE OF THE HVAC WORK SHALL BE REPAIRED TO MATCH THE EXISTING CONDITIONS.
- ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE OWNER TO SUIT THEIR OPERATING CONDITIONS. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE.
- EQUIPMENT & DUCTWORK SHALL BE KEPT CLEAN FROM DIRT & DEBRIS.
- VERIFY REFRIGERANT PIPE SIZES WITH AIR CONDITIONING EQUIPMENT MANUFACTURER.
- PERFORM EQUIPMENT START-UP IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS OR IN CONJUNCTION WITH A FACTORY AUTHORIZED TECHNICIAN. ADJUST AUTOMATIC TEMPERATURE CONTROLS TO ACHIEVE SATISFACTORY TEMPERATURE AND/OR HUMIDITY CONTROL AS APPLICABLE.

## CODE CONFORMANCE

MECHANICAL SYSTEM INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH ALL CURRENT REQUIREMENTS OF NATIONAL, STATE, AND MUNICIPAL CODES, RULES, REGULATIONS, ORDINANCES, AND LAWS AS THEY ARE ADOPTED BY THE AGENCY HAVING JURISDICTION AND AS THEY MAY APPLY.

- FLORIDA BUILDING CODE 2014
- INTERNATIONAL BUILDING CODE 2012
- INTERNATIONAL PLUMBING CODE 2012
- INTERNATIONAL MECHANICAL CODE 2012
- FLORIDA FIRE PREVENTION CODE 2014

## GUIDELINES & STANDARDS CONFORMANCE

MECHANICAL SYSTEM INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH THE CURRENT INDUSTRY STANDARDS AND GUIDELINES AS THEY APPLY.

- SMACNA 2005 - HVAC DUCT CONSTRUCTION STANDARDS (METAL AND FLEXIBLE)
- ASHRAE 90.1 - 2010 - ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS
- ASHRAE 62.1 - 2010 - VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY

## SHEET INDEX

SHEET	DESCRIPTION
M-000	HVAC SYMBOLS, GENERAL NOTES & SHEET INDEX
M-101	FIRST FLOOR HVAC PLAN - DEMOLITION WORK
M-201	FIRST FLOOR HVAC PLAN - REMODEL WORK
M-401	MECHANICAL DETAILS
M-402	MECHANICAL DETAILS
M-601	MECHANICAL SPECIFICATIONS

## HVAC LEGEND

	SUPPLY AIR DIFFUSER
	RETURN OR EXHAUST REGISTER
	MANUAL BALANCING DAMPER
	BACKDRAFT DAMPER
	NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH)
	EXISTING DUCT TO REMAIN
	EXISTING DUCT TO BE REMOVED
	EQUIPMENT DEMOLITION
	FLEXIBLE DUCT
	90° ELBOW WITH TURNING VANES
	KEYED NOTES
	PROGRAMMABLE THERMOSTAT WITH NIGHT SETBACK
	CONDENSATE DRAIN
	REFRIGERANT LINE SET
	DETAIL NUMBER
	DRAWING NUMBER WHERE DRAWN
	SECTION LETTER
	DRAWING NUMBER WHERE SHOWN

## ABBREVIATIONS

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CD	CONDENSATE DRAIN
CU	CONDENSING UNIT
DB	DRY BULB
DN	DOWN
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EF	EXHAUST FAN
EXH	EXHAUST
EXIST	EXISTING
EQUIP	EQUIPMENT
FC	FLEXIBLE CONNECTION
FPM	FEET PER MINUTE
FT	FEET
HP	HORSEPOWER
KW	KILOWATT
MAX	MAXIMUM
MIN	MINIMUM
OA	OUTSIDE AIR
OAU	OUTSIDE AIR UNIT
RA	RETURN AIR
SA	SUPPLY AIR
TEMP	TEMPERATURE
TYP	TYPICAL
V	VOLTS
WB	WET BULB
W/	WITH

## HVAC DESIGN CONDITIONS

	SUMMER		WINTER
	DB(°F)	WB(°F)	DB(°F)
OUTDOOR	92.8	77.1	45.2
INDOOR	74.0	63.5	68.0
DEHUMIDIFICATION	82.9	79.4	N/A

## VENTILATION CALCULATIONS

SYSTEM ID	AREA SERVED	AREA (SQ. FT.)	PEOPLE QUANTITY	OA PER SQ. FT.	OA PER PERSON	OUTSIDE AIR REQUIRED	OUTSIDE AIR PROVIDED	EXHAUST AIR REQUIRED	EXHAUST AIR PROVIDED
PAC-1	EXERCISE ROOM, BUNK ROOMS, TOILETS & CORRIDOR	1882	3	0.06	20	173	315		
PAC-2	BUNK ROOMS, CORRIDOR & TOILETS	1574	4	0.06	5	114	147		
PAC-3	DAY ROOM, KITCHEN, OFFICER RADIO ROOM & TOILETS	1491	5	0.06	5	115	158		
KSF-1	KITCHEN HOOD (MAKEUP AIR)					650	650		
KEF-1	KITCHEN HOOD							800	800
EF-1	SHOWERS/TOILET (INTERIOR)							200	400
EF-2	TOILET (KITCHEN AREA)							100	100
	TOTAL	4947				1052	1270	1,100	1,300

### NOTES:

- CALCULATIONS BASED ON ASHRAE 62.1 - 2010 - VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY
- OUTDOOR AIR INTRODUCED BY 100% OUTDOOR AIR UNIT.
- QUANTITY OF PEOPLE PROVIDED BY OWNER. MAXIMUM OF 12 PEOPLE.

## PACKAGED A/C SYSTEM SCHEDULE

UNIT DESIGNATION	PAC-1	PAC-2	PAC-3
AREA SERVED	EXERCISE ROOM, BUNK ROOMS, TOILETS & CORRIDOR	BUNK ROOMS, CORRIDOR & TOILETS	DAY ROOM, KITCHEN, OFFICER RADIO ROOM & TOILETS
DESIGN MANUFACTURER	TRANE	TRANE	TRANE
OPERATING WEIGHT LBS.	607	607	610
MODEL NUMBER	4TCC3048A1000B	4TCC3048A1000B	4TCC3060A1000B
OUTSIDE AIR - CFM (MIN.)	365	365	540
TOTAL AIR CFM (HIGH SPEED)	1,505	1,315	1,770
FAN SPEEDS	3	3	3
FAN TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
TOTAL CAPACITY BTU/HR	-	-	-
SENSIBLE CAPACITY BTU/HR	45,150	39,450	53,100
FILTER	THROWAWAY	THROWAWAY	THROWAWAY
HEATING KW	11.1 KW	9.3 KW	12.1 KW
POWER	230/1/60	230/1/60	230/1/60
MFS	50/2P	50/2P	60/2P
MCA	32.7	32.7	41.9
COMPRESSOR R.L.A.	21.8	21.8	26.3
ELECTRICAL SERVICE AVAILABLE	208-230/1/60	208-230/1/60	208-230/1/60

### REMARKS

- PROVIDE FIXED OUTSIDE AIR AS INDICATED.
- PROVIDE WITH DISCONNECTS AT THE UNIT OR AT THE NEAREST WALL.
- UNIT SHALL BE PROVIDED WITH HURRICANE STRAPS.
- EQUIVALENT PRODUCT SHALL BE CONSIDERED BY SHOP DRAWING SUBMITTAL.

## AIR DEVICE SCHEDULE

SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER, ALL ALUMINUM, LOUVER TYPE, WITH OPPOSED-BLADE VOLUME DAMPER, EQUAL TO TITUS TDC-AA. FLANGED DIFFUSER WITH DIRT GASKET. AIR QUANTITY - TYP.
	EXHAUST AIR REGISTER, ALL ALUMINUM, BLADE TYPE, WITH OPPOSED-BLADE VOLUME DAMPER, EQUAL TO TITUS 350-FL. FLANGED DIFFUSER WITH DIRT GASKET.
	EXHAUST AIR GRILLE, SAME AS REGISTER (ABOVE) WITHOUT DAMPER. FLANGED DIFFUSER WITH DIRT GASKET.
	RETURN AIR GRILLE, ALL ALUMINUM, BLADE-TYPE, EQUAL TO TITUS 350-FL. FLANGED DIFFUSER WITH DIRT GASKET. SIZE AS INDICATED
	RETURN AIR GRILLE, STEEL WITH 1/2" BLADE SPACING, HINGED AT BOTTOM, FLANGED FOR SURFACE MOUNTING, WITH 2" FILTER. EQUAL TO TITUS 355FSF2.

PROVIDE APPLICABLE FRAMES FOR AIR DEVICES IN LAY-IN OR HARD CEILINGS AS REQUIRED. FINISH TO BE OFF-WHITE. COORDINATE LOCATIONS FOR DEVICES WITH LIGHT FIXTURES AND ARCHITECT'S REFLECTED CEILING PLAN. CONNECTION SIZES ARE TO BE PER SCHEDULE AT RIGHT (SUPPLY OR RETURN AIR). PROVIDE DROP FRAMES FOR DUCT MOUNTED DEVICES.

NOTE: ALL GRILLES, REGISTERS AND DIFFUSERS ARE NEW EXCEPT THOSE LOCATED IN AREAS CALLED OUT AS NIC (NOT IN CONTRACT).

CFM RANGE	CONNECTION SIZE, MIN.
0 - 120	6"ø 6"x6"
121 - 250	8"ø 8"x8"
251 - 325	10"ø 10"x10"
326 - 425	12"ø 12"x12"
426 - 550	14"ø 12"x12"



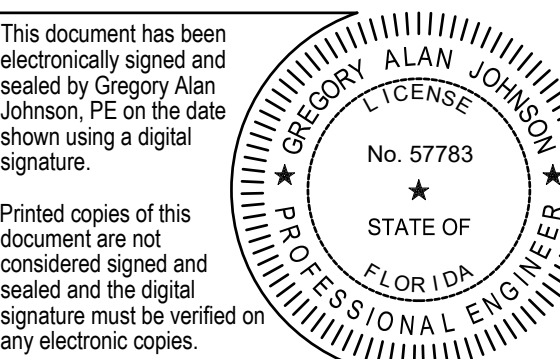
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GREGORY A. JOHNSON  
PE-57783

### ENGINEER OF RECORD

### PROJECT TEAM

### DESIGNER

GJ/GP

### BIM / DRAWINGS BY:

GP

### CHECKED BY:

GJ

**Naples Fire Station #2 Int. Renovation (Ceilings / HVAC)**  
6788-17-2974  
100% CD | 06/19/17

PROJECT NUMBER | STATUS | ISSUE DATE

HVAC SYMBOLS, GENERAL NOTES & SHEET INDEX

SCALE: -

**M-000**  
SHEET NUMBER



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wheeler

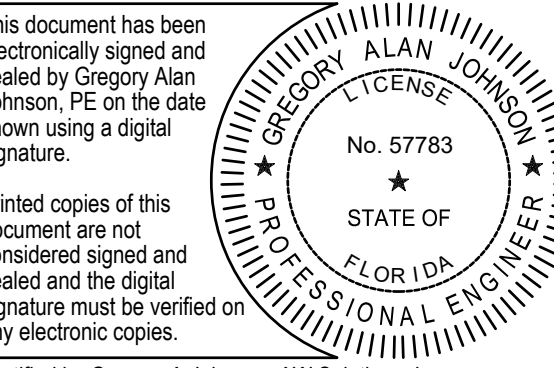
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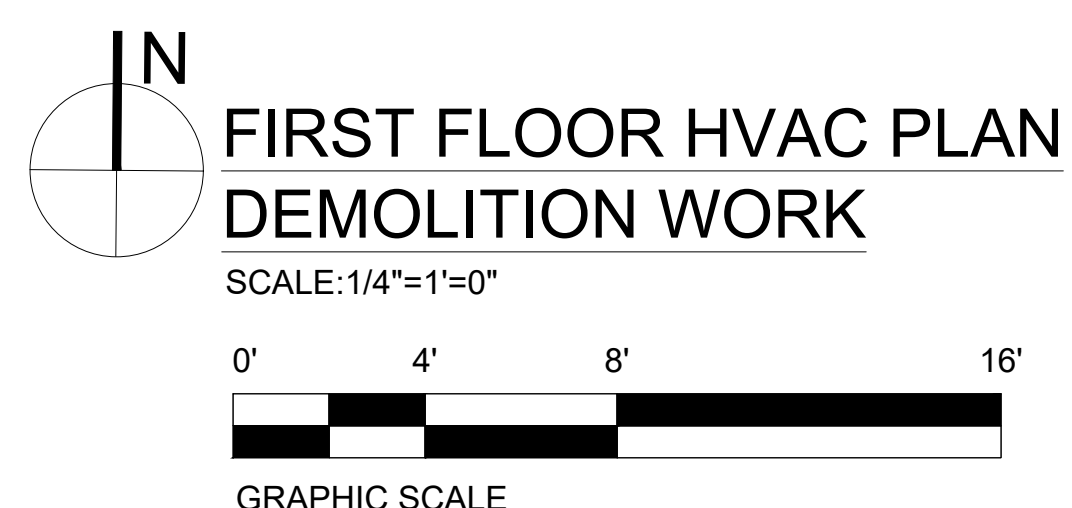
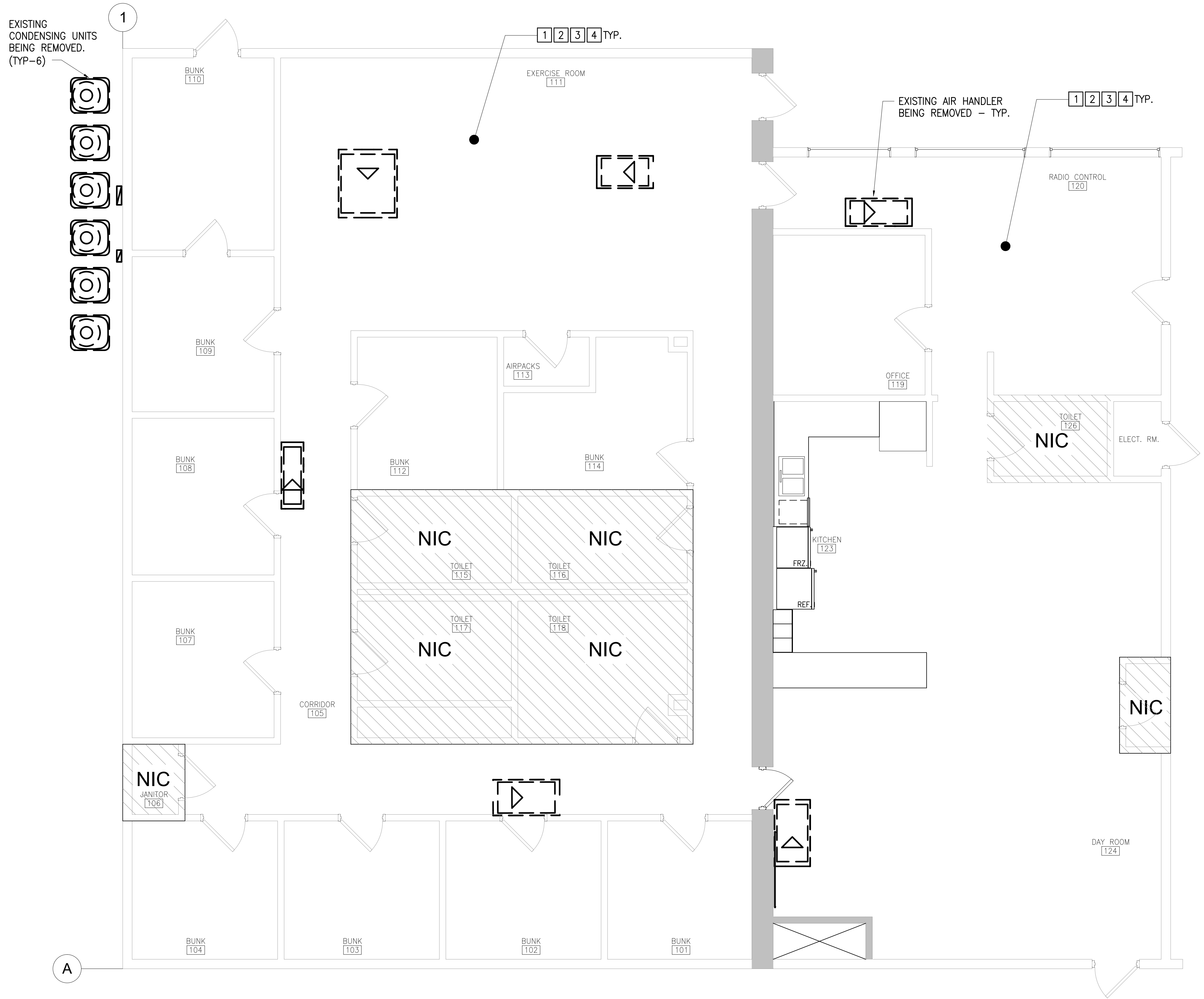
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PROJECT NUMBER | STATUS |  
ISSUE DATE

FIRST FLOOR HVAC  
PLAN - DEMOLITION  
WORK

SCALE: AS SHOWN

**M-101**  
SHEET NUMBER

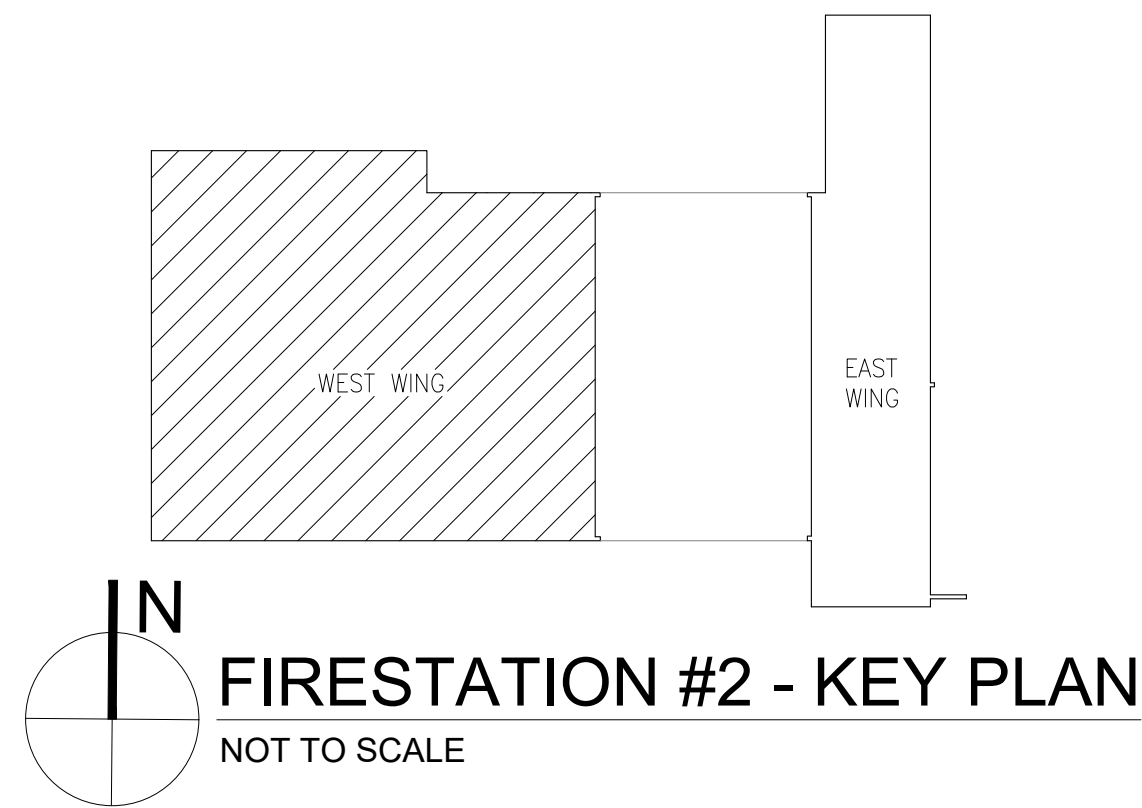


**GENERAL DEMOLITION NOTE**

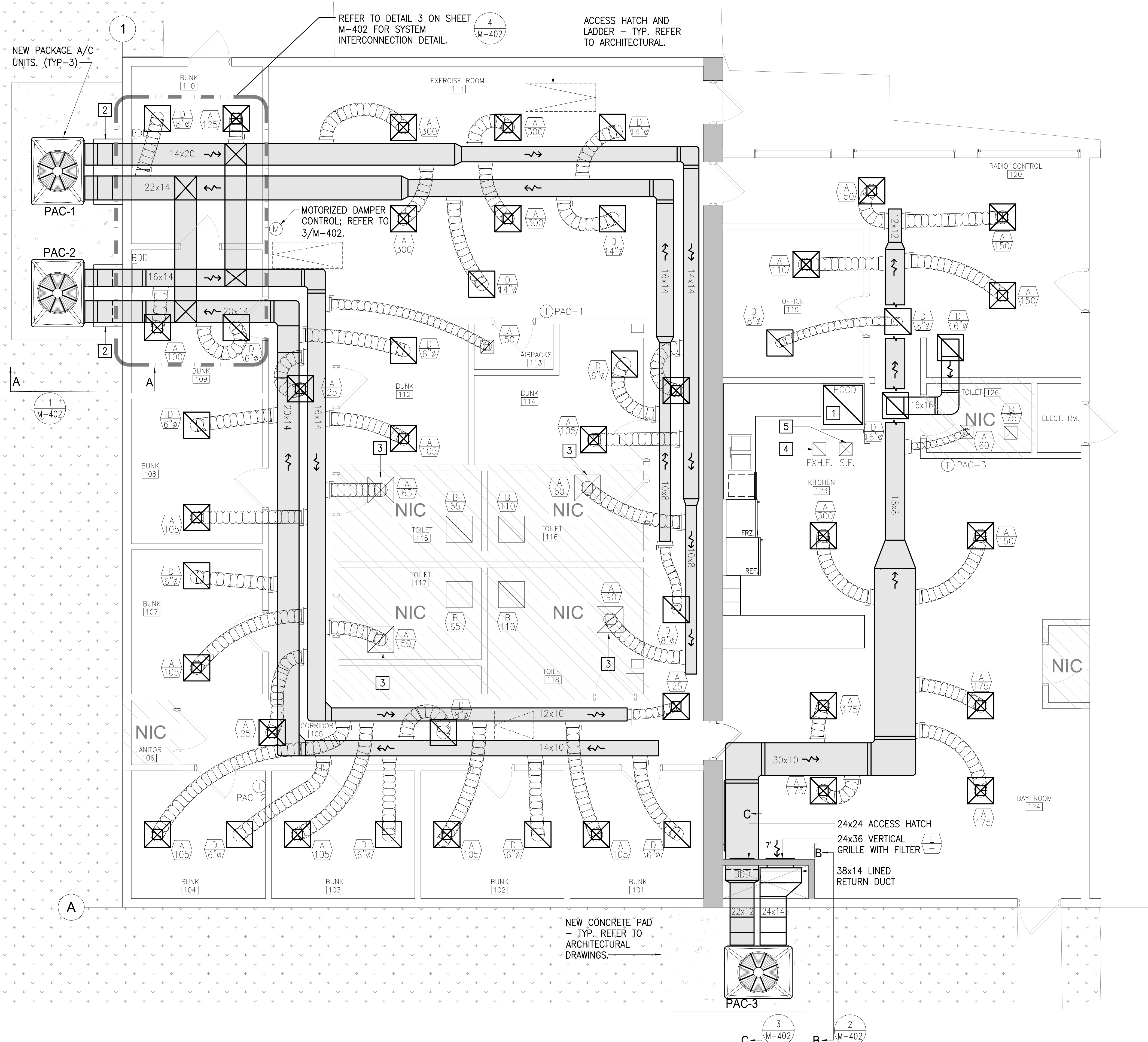
REFER TO ARCHITECTURAL DRAWINGS FOR SCOPE OF WORK PHASING; THE FIRE STATION IS A 24/7 OPERATING FACILITY AND SHALL REMAIN IN OPERATION DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CITY REPRESENTATIVE A MINIMUM OF 72 HOURS PRIOR TO WORKING IN NEW AREAS WHICH REQUIRE COORDINATION WITH EXISTING FACILITY FUNCTION.

**DEMOLITION NOTES:**

- 1 ALL EXISTING CEILING MOUNTED HVAC GRILLES AND DIFFUSERS ARE TO BE REMOVED. EXISTING SPRINKLERS ARE TO REMAIN AND ARE NOT IN THE SCOPE OF WORK.
- 2 ALL EXISTING HVAC UNITS AND RELATED DUCTWORK ARE TO BE REMOVED.
- 3 REMOVE ALL CONDENSATE PIPING. CAP PIPING AT WALLS.
- 4 REMOVE ALL EXISTING THERMOSTATS AND WIRING.



**FIRESTATION #2 - KEY PLAN**  
NOT TO SCALE



**REMODEL NOTES:**

- 1 KITCHEN HOOD, KITCHEN EXHAUST FAN AND KITCHEN SUPPLY FAN ARE EXISTING TO REMAIN. SEE NOTES 4 & 5 THIS SHEET AND DETAIL 4/M-402.
- 2 PROVIDE STAINLESS STEEL, GASKETED ENCLOSURE AROUND SA, RA DUCT RISERS PAC-1 & PAC-2.
- 3 EXISTING DIFFUSER CONNECTED TO NEW DUCT. COORDINATE WITH AND ADAPT TO EXISTING DIFFUSER FOR CONNECTION.
- 4 EXISTING KITCHEN EXHAUST FAN TO REMAIN.
- 5 EXISTING KITCHEN SUPPLY FAN TO REMAIN.



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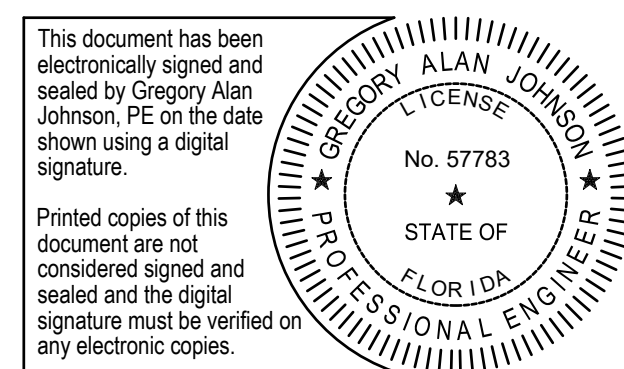
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**AW Solutions**  
Incorporated  
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LONGWOOD, FL 32750  
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GREGORY A. JOHNSON  
PE-57783

**ENGINEER OF RECORD**

**PROJECT TEAM**

**DESIGNER**  
GJ/GP

**BIM / DRAWINGS BY:**  
GP

**CHECKED BY:**  
GJ

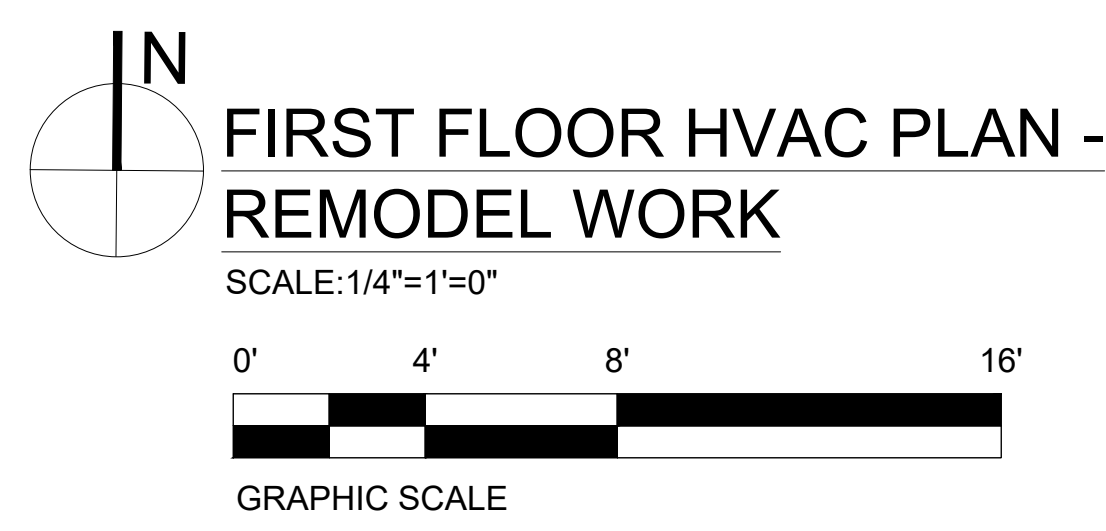


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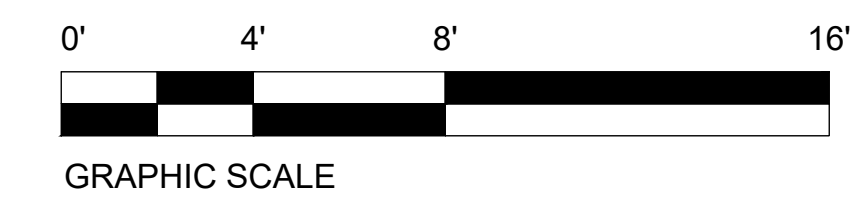
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FIRST FLOOR HVAC  
PLAN - REMODEL WORK  
SCALE: AS SHOWN

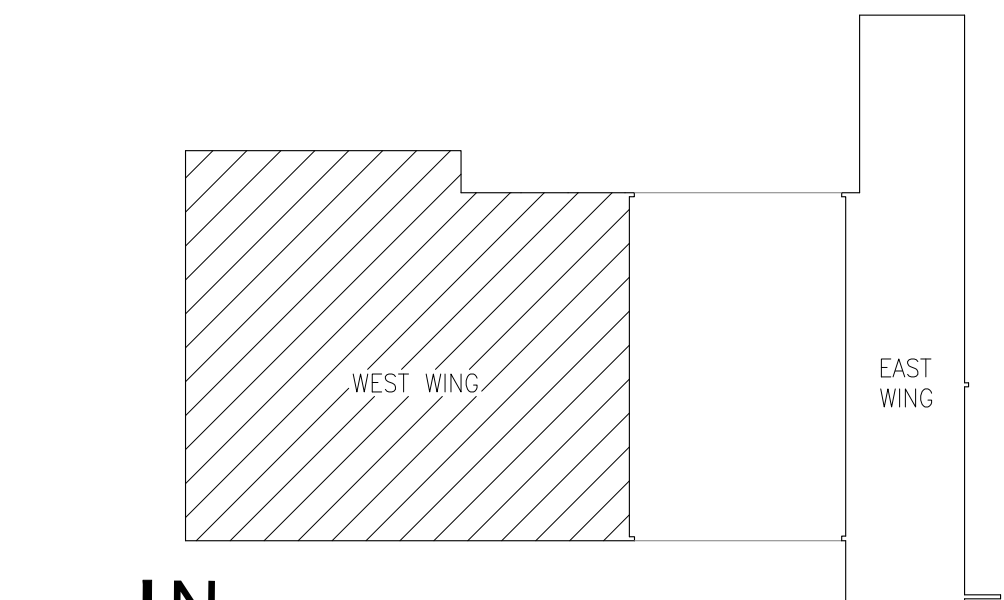
**M-201**  
**SHEET NUMBER**



**FIRST FLOOR HVAC PLAN - REMODEL WORK**  
SCALE: 1/4"=1'-0"



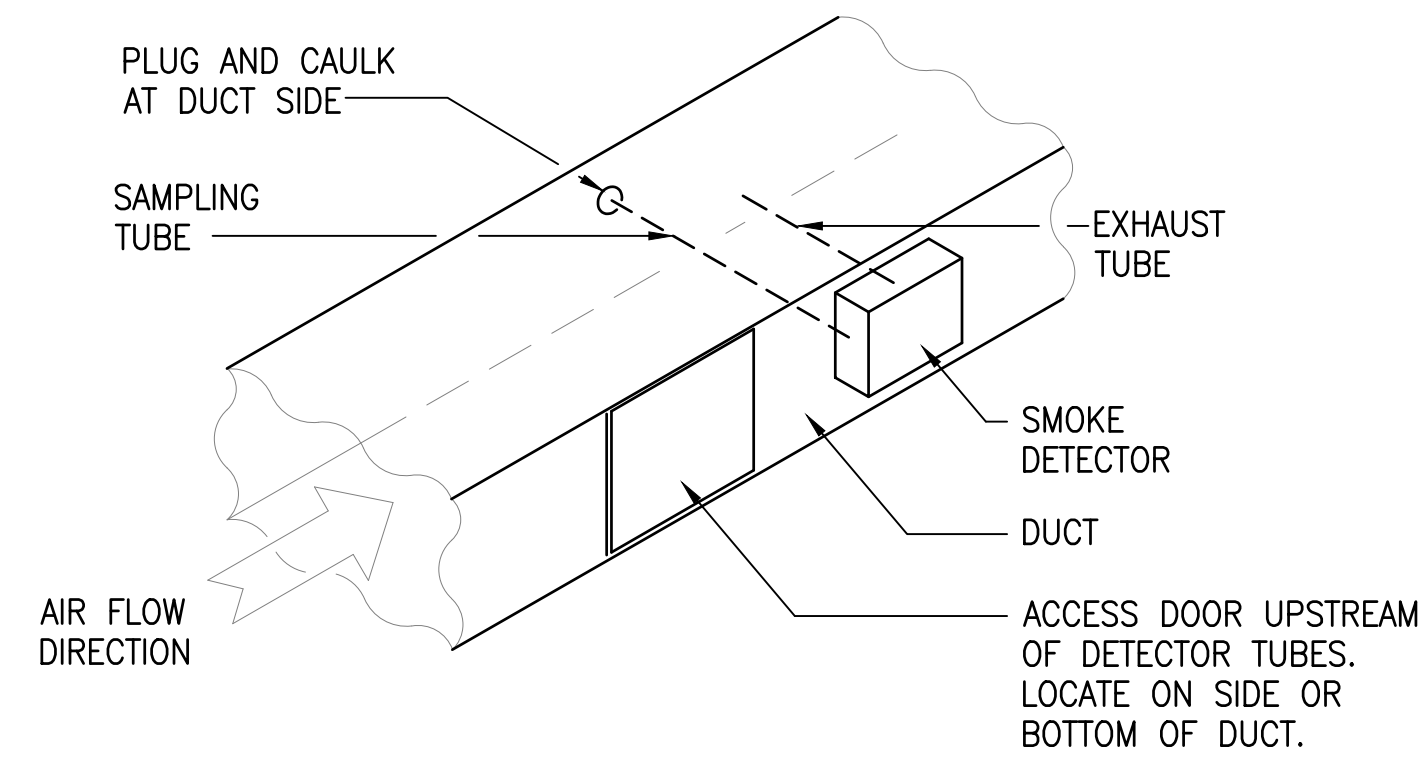
GRAPHIC SCALE



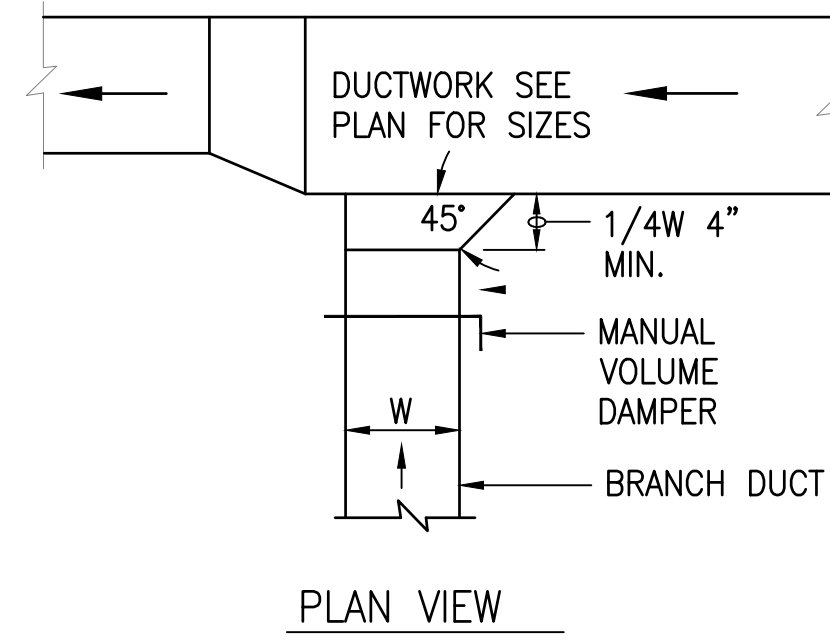
**FIRESTATION #2 - KEY PLAN**  
NOT TO SCALE

**NOTES:**

1. SAMPLING TUBE SHALL EXTEND ACROSS THE FULL WIDTH OF THE DUCT.
2. LOCATE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.
3. COMPLY WITH DISTANCE REQUIREMENTS FROM DUCT FITTINGS.



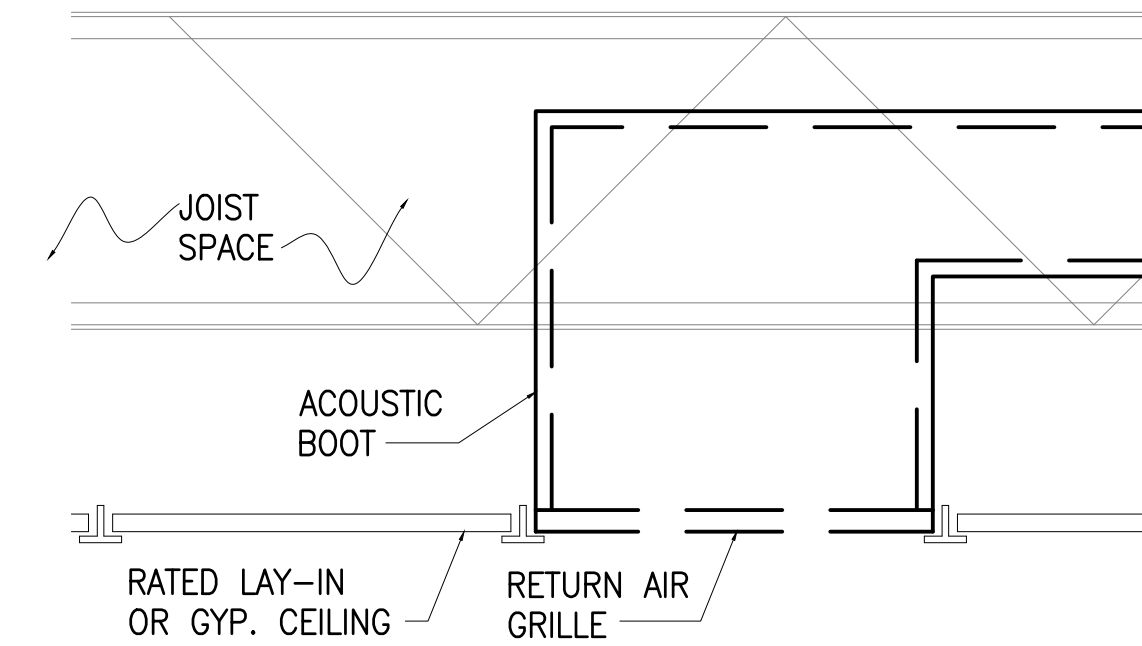
**1 DUCT MOUNTED SMOKE DETECTOR**  
NOT TO SCALE



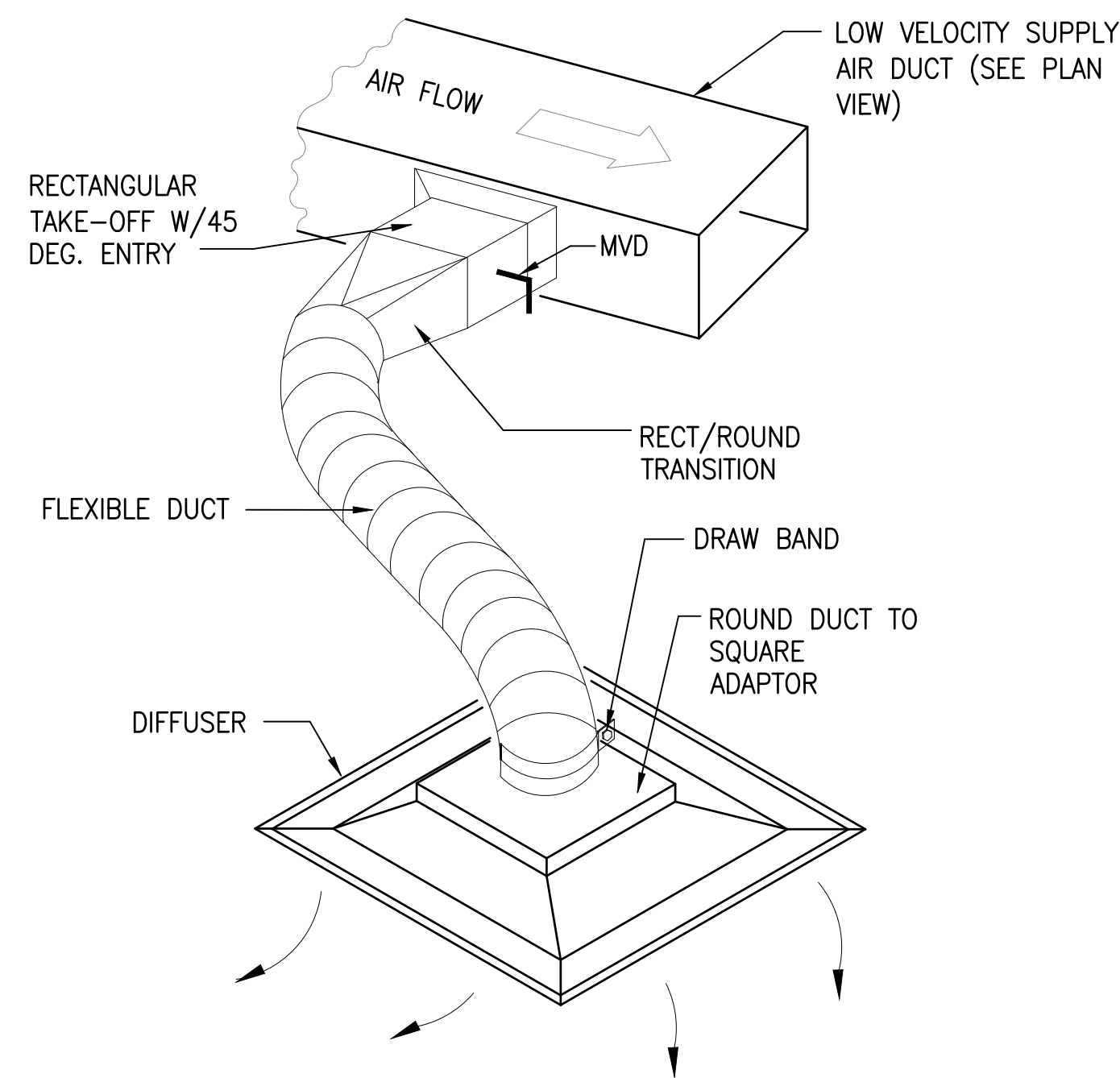
NOTE: TYPICAL LOCATION OF MANUAL VOLUME DAMPER FOR ALL LOCATION

NOTE: TYPICAL FOR ALL CONSTANT VOLUME SYSTEMS DUCTWORK THROUGHOUT; AND FOR DUCTWORK DOWNSTREAM OF VAV BOXES IN VARIABLE VOLUME SYSTEMS

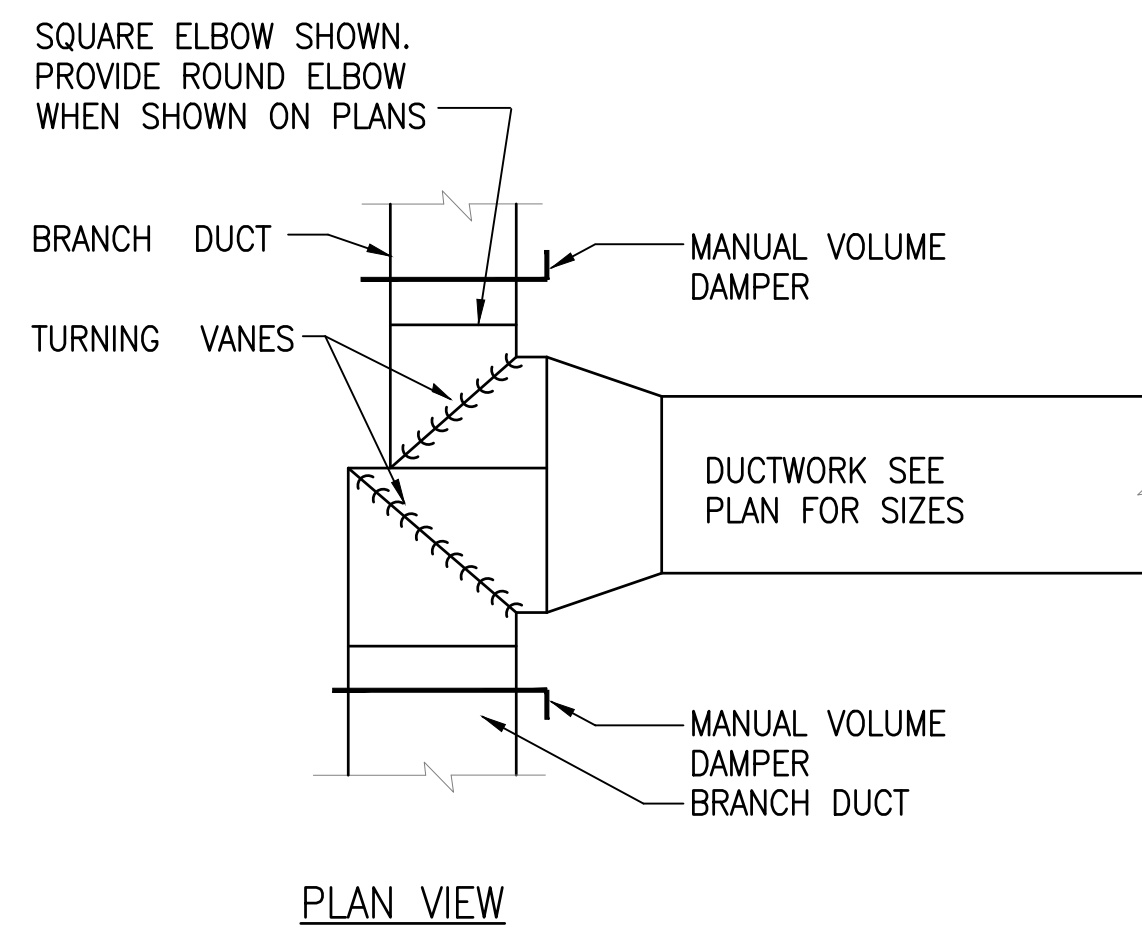
**4 TYPICAL SUPPLY/EXHAUST AND/OR RETURN BRANCH DUCT**  
NOT TO SCALE



**7 RETURN AIR GRILLE DETAIL - TYP.**  
NOT TO SCALE



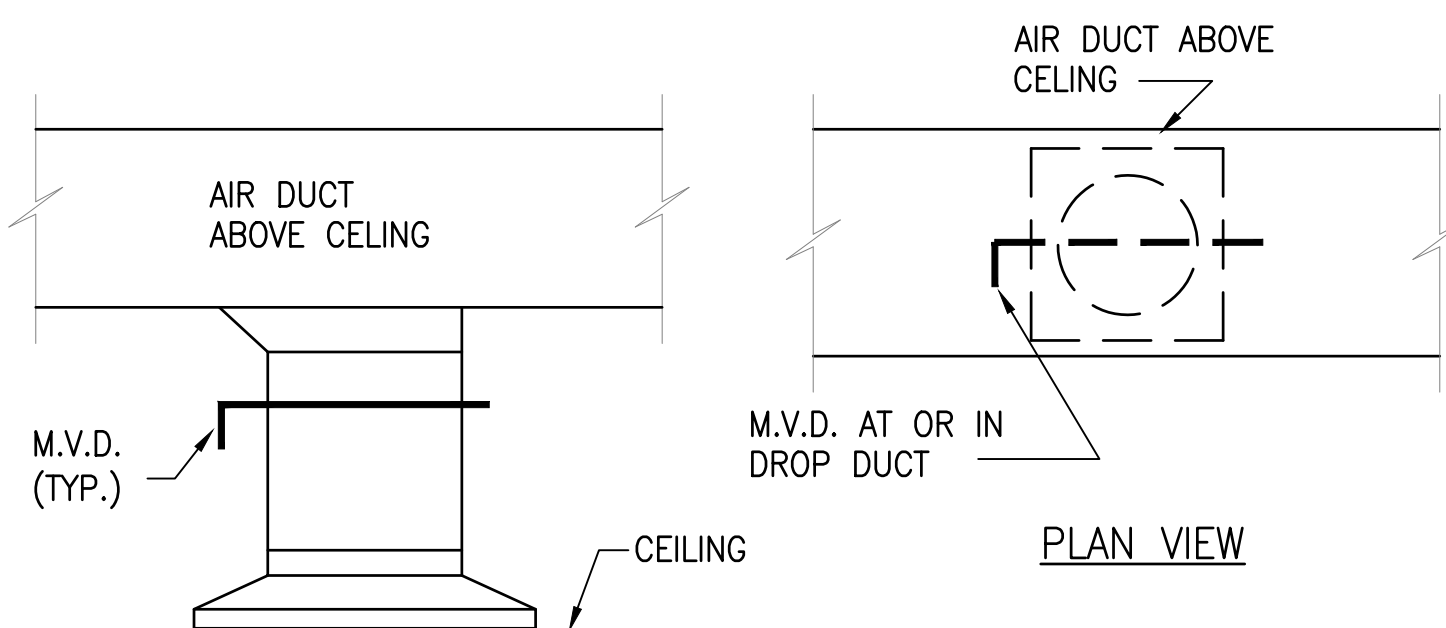
**2 FLEXIBLE DUCT CONNECTION DETAIL**  
NOT TO SCALE  
(SIMILAR FOR TRUNK DUCT BOTTOM CONNECTION WHEN CEILING SPACE ALLOWS)



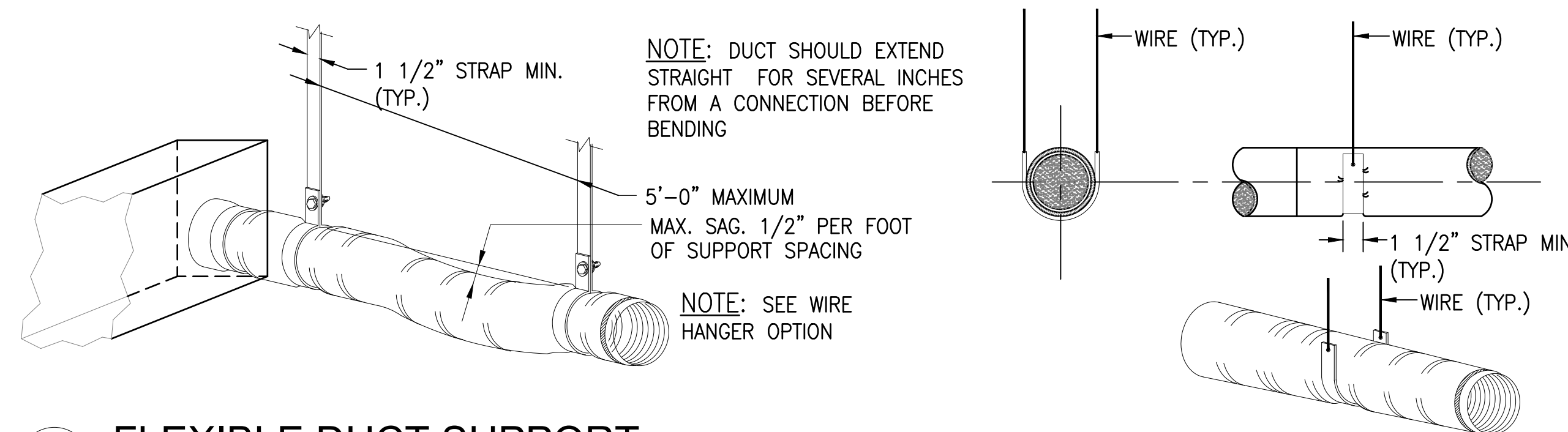
NOTE: TYPICAL LOCATION OF MANUAL VOLUME DAMPER FOR ALL LOCATIONS

NOTE: TYPICAL FOR ALL CONSTANT VOLUME SYSTEMS DUCTWORK THROUGHOUT; AND FOR DUCTWORK DOWNSTREAM OF VAV BOXES IN VARIABLE VOLUME SYSTEMS

**5 TYPICAL SUPPLY/EXHAUST AND/OR RETURN SPLIT TYPE DUCT TAKE-OFF**  
NOT TO SCALE



**3 TYPICAL SUPPLY / EXHAUST AND/OR RETURN TAKE - OFF**  
NOT TO SCALE



**6 FLEXIBLE DUCT SUPPORT**  
NOT TO SCALE

NOTES: SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE. CLOSER MAXIMUM INTERVALS MAY BE SPECIFIED AS A CONDITION OF U.L. LISTING, SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE - SECOND EDITION, PARTICULARLY IN FIRE RATED FLOOR - CEILING ASSEMBLIES.

NOTE: SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE



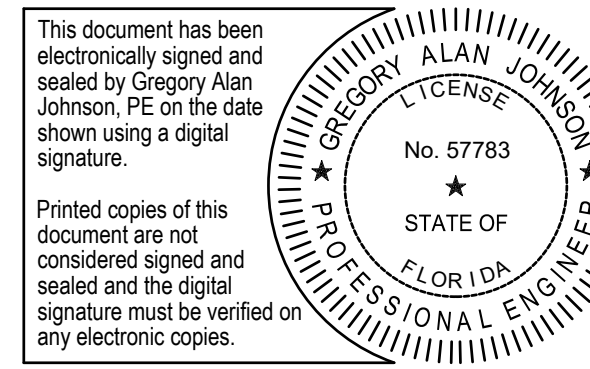
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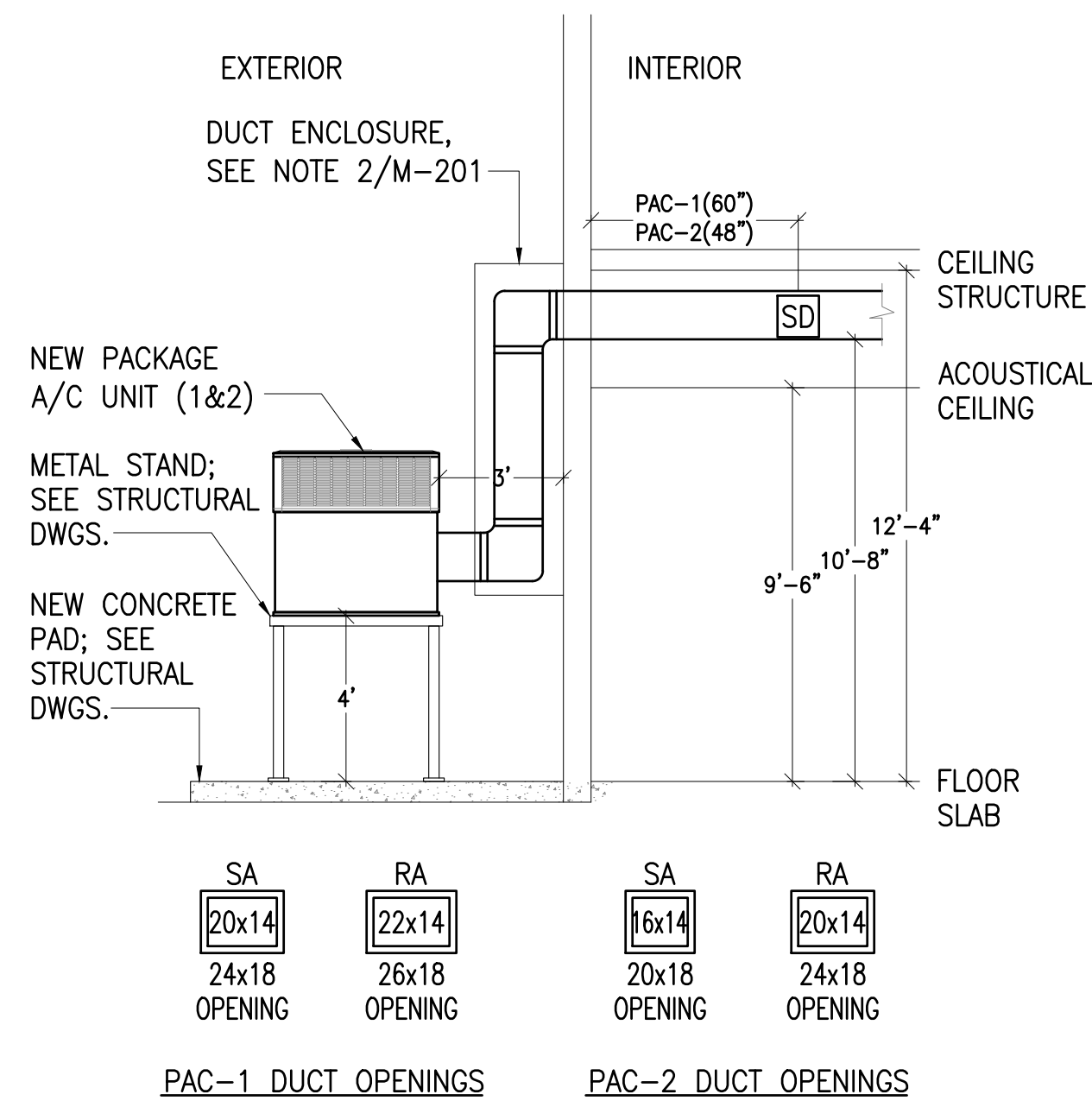
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MECHANICAL DETAILS

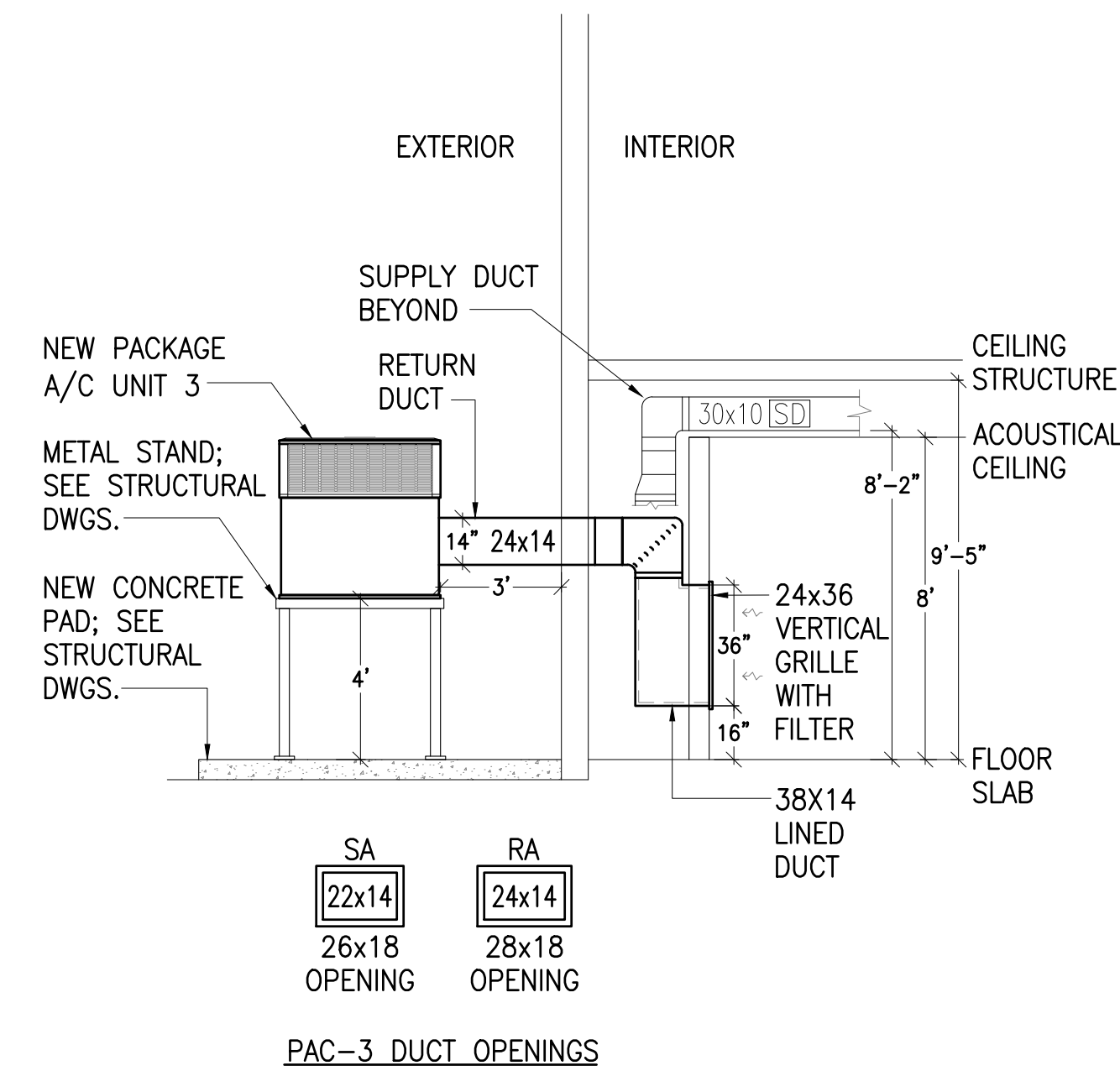
SCALE: -

**M-401**  
SHEET NUMBER

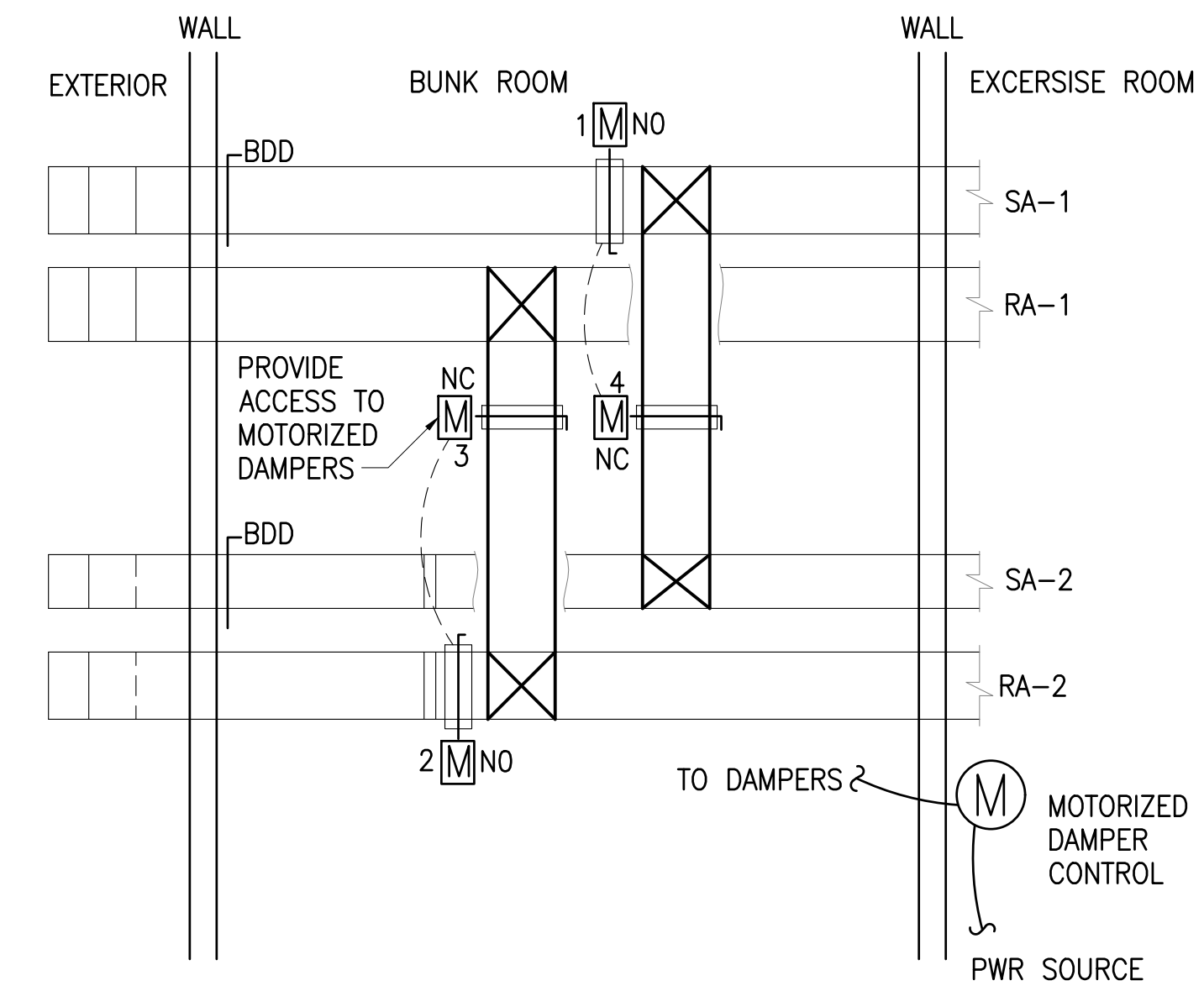
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1 SECTION A-A (PAC-1 & PAC-2)  
NOT TO SCALE



2 SECTION B-B (PAC-3)  
NOT TO SCALE



PAC-1 & PAC-2 SYSTEMS INTERCONNECTION AS FOLLOWS:

- 1- PROVIDE 14"x20" SA DUCT OUT OF TOP OF SYSTEM 1 SA TO RUN UP AND OVER TO CONNECT INTO TOP OF SYSTEM 2 SA DUCT.
- 2- INTERCONNECT RA DUCT IN SAME MANNER AS SA USING 14"x22" DUCT.
- 3- PROVIDE A 0-100%, 120V MOTORIZED DAMPER IN BOTH SA AND RA INTERCONNECTING DUCTS.
- 4- PROVIDE WALL MOUNTED VARIABLE INTERLOCK CONTROL MARKED "0%" AND "100%" TO CONTROL MOTORIZED DAMPERS IN SA AND RA DUCTS SIMULTANEOUSLY. POWER FROM NEAREST 120V/20A WALL RECEPTACLE CIRCUIT.
- 5- PROVIDE GRAVITY BACK-DRAFT DAMPER IN INTERCONNECTING DUCTS.

SEQUENCE OF OPERATION:

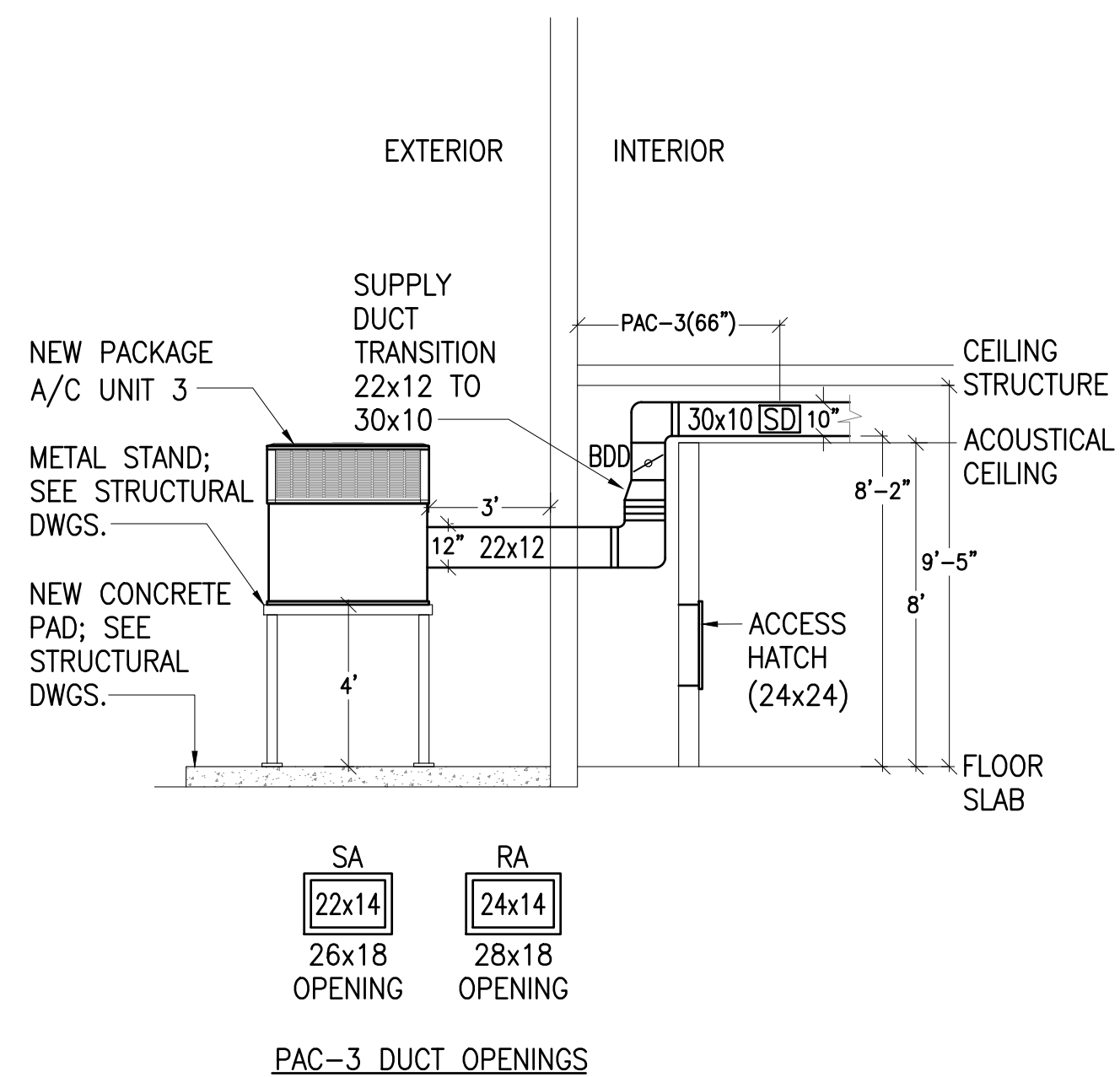
MOTORIZED DAMPER CONTROL SHALL BE A 3 POSITION SWITCH AS FOLLOWS:

IN PAC-1 POSITION:  
THE DAMPER IN PAC-1 SA DUCT OPENS AND THE TWO DAMPERS IN INTERCONNECTING DUCT OPEN. PAC-2 SA DUCT DAMPER IS CLOSED.

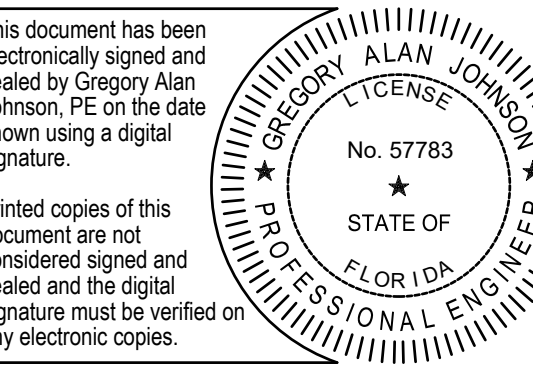
IN PAC-2 POSITION:  
THE DAMPER IN PAC-2 SA DUCT OPENS AND THE TWO DAMPERS IN INTERCONNECTING DUCT OPEN. PAC-1 SA DUCT DAMPER IS CLOSED.

IN OFF POSITION:  
PAC-1 SA IS OPEN.  
PAC-2 SA IS OPEN.  
INTERCONNECTING DUCT DAMPERS ARE CLOSED.

4 PAC-1 & PAC-2  
INTERCONNECTION SYSTEM  
NOT TO SCALE



3 SECTION C-C (PAC-3)  
NOT TO SCALE



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GREGORY A. JOHNSON  
PE-57783

ENGINEER OF RECORD

PROJECT TEAM

DESIGNER

GJ/GP

BIM / DRAWINGS BY:

GP

CHECKED BY:

GJ

**Naples Fire Station #2  
Int. Renovation  
(Ceilings / HVAC)**  
6788-17-2974  
100% CD | 06/19/17

PROJECT NUMBER | STATUS | ISSUE DATE

MECHANICAL DETAILS

SCALE: -

**M-402**  
SHEET NUMBER

# MECHANICAL SPECIFICATIONS

1. ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED STATE AND LOCAL CODES, AS WELL AS FEDERAL, STATE, AND MUNICIPAL REGULATIONS.
2. DRAWINGS ARE DIAGRAMMATIC, CONTAINING INFORMATION TO A DEGREE OF DETAIL CONSISTENT WITH THEIR SCALE AND ADEQUATE TO CONVEY THE DESIGN INTENT.
3. DIMENSIONS, WHERE SHOWN, ARE FOR REFERENCE. EQUIPMENT AND MATERIAL SHOWN ON DRAWINGS, ARE BASED ON MANUFACTURER'S PUBLISHED DATA, AND ARE, IN THE DESIGNER'S PROFESSIONAL OPINION, REPRESENTATIVE OF TYPICAL SIZES. ALL EQUIPMENT AND MATERIAL PROVIDED SHALL FIT WITHIN THE SPACE PROVIDED.
4. ALL EQUIPMENT AND SERVICEABLE DEVICES SHALL BE INSTALLED WITH ACCESS AND CLEARANCE FOR MAINTENANCE. COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES TO PROVIDE THIS ACCESS AND CLEARANCE.
5. IF EQUIPMENT AND MATERIAL, OTHER THAN THAT SCHEDULED OR SPECIFIED, IS APPROVED AND PROVIDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND PROVIDE REVISED UTILITIES AND SERVICE CONNECTIONS. THIS INCLUDES BUT IS NOT LIMITED TO REVISED POWER, CONTROLS, HYDRONICS, WASTE DRAINS, FLUES, AND VENT REQUIREMENTS.
6. PROVIDE AND DOCUMENT CORRESPONDENCE TO THE GENERAL CONTRACTOR AND ALL TRADES, REQUIREMENTS FOR INSTALLATION, CHASES, OPENINGS, AND UTILITY SERVICE CONNECTIONS. THIS INCLUDES SUPPORTING DEVICES, POINT LOADS, ACCESS OPENINGS, SLEEVES AND CUT-OUTS.
7. PROVIDE STARTERS FOR ELECTRICAL EQUIPMENT UNLESS SPECIFICALLY IDENTIFIED ON MECH DWGS AS BEING PROVIDED BY THE ELECTRICAL CONTRACTOR. PROVIDE ALL INTERNAL OVER CURRENT PROTECTION DEVICES AND INTERNAL TRANSFORMERS FOR PACKAGED EQUIPMENT.
8. PROVIDE APPROVED SLEEVES AND SEALS AT ALL WALL, CEILING, ROOF, AND FLOOR PENETRATIONS.
9. ACCESS DOORS AND/OR PANELS SHALL BE PROVIDED AT ALL MAINTENANCE AND SERVICE LOCATIONS. UNLESS A SIZE IS SPECIFICALLY NOTED, PANELS SHALL BE SIZED TO SERVICE EQUIPMENT. DOORS AND PANELS SHALL HAVE THE SAME FIRE RATING AS THE WALL IN WHICH THEY ARE INSTALLED. COORDINATE ACCESS PANEL SIZE AND LOCATION WITH THE G.C.
10. RECTANGULAR DUCT SHALL BE GALVANIZED SHEET STEEL PER SMACNA "HVAC DUCT CONSTRUCTION STANDARDS - METAL". FLEXIBLE METAL DUCT SHALL BE METAL WITH LINER AND INSULATED PER FBC. SUPPORT HORIZONTAL DUCTWORK WITH 1" WIDE STRAP HANGERS EVERY 6'-0" AND WITHIN 24 INCHES OF EACH ELBOW AND WITHIN 48 INCHES OF EACH BRANCH INTERSECTION. INSTALL DUCTS PARALLEL TO BUILDING LINES.
11. ALL EQUIPMENT, UTILITY AND SERVICE LINES SHALL BE IDENTIFIED WITH A SUITABLE MARKER, TAG, OR SIGN.
12. INSULATION AND VAPOR BARRIER SHALL BE PROVIDED ON ALL DUCT SYSTEMS AND EQUIPMENT SUBJECT TO HEAT LOSS, HEAT GAIN, CONDENSATION, OR CONSTITUTING A POTENTIAL BURN HAZARD.
13. INSULATION SHALL BE FIRMLY SECURED TO THE DUCT WITH ENDS SEALED TO MAINTAIN THE INTEGRITY OF THE VAPOR BARRIER. INSULATION SHALL NOT BE CRUSHED OR COMPRESSED AT HANGERS OR THROUGH INTERFERENCE WITH EQUIPMENT INSTALLED BY OTHER TRADES. ALL EXTERIOR DUCTS SHALL BE INSULATED AND MADE WATERTIGHT.
14. INSTALL DUCTWORK AS TIGHT AS POSSIBLE TO THE BUILDING STRUCTURE.
15. DUCTWORK SIZES ARE AIR-STREAM DIMENSIONS.
16. EXCEPT AS SHOWN OTHERWISE, ALL DUCTWORK, FITTINGS, SUPPORT, AND ACCESSORIES SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA AND NFPA STANDARDS.
17. ALL DUCT SYSTEMS SHALL BE TESTED, BALANCED, AND ADJUSTED BY THE MECHANICAL CONTRACTOR.
  - A. TEST AND BALANCE SHALL BE PROVIDED BY THIS CONTRACTOR THROUGH A CONTRACT WITH AN INDEPENDANT TEST AND BALANCE CONTRACTOR. FINAL PAYMENT OF HVAC CONTRACT AMOUNT SHALL BE WITHHELD UNTIL THE TEST AND BALANCE IS COMPLETE.
    1. BALANCING FOR AIR AND WATER SHALL BE BY ACTUAL FLOW MEASUREMENTS. METHOD OF BALANCING BY TEMPERATURE DIFFERENCE IS NOT ACCEPTABLE.
  - B. THIS CONTRACTOR SHALL PREPARE SYSTEM FOR BALANCING AS FOLLOWS:
    1. MECHANICALLY CHECK FANS, BLOWERS, CONDENSING UNIT AND AIR HANDLING EQUIPMENT AND MAKE OPERABLE AS PER DESIGN CONDITIONS. SET RUNNING AMPS BELOW F.L.A.
    2. SET SPLITTERS, VOLUME DAMPERS, FIRE DAMPERS AND VANES IN THEIR NEUTRAL POSITIONS.
    3. INSTALL GRILLES, DIFFUSERS, ETC. WITH VOLUME CONTROL DAMPER BLADES IN THEIR NEUTRAL POSITIONS.
    4. MECHANICALLY CHECK CONTROLS AND MAKE OPERABLE AS PER DESIGN CONDITIONS.
18. ALL DUCTWORK SHALL BE SEALED WITH MASTIC COATING AND EXTERNALLY INSULATED EXCEPT EXHAUST DUCT.
19. ALL SQUARE ELBOWS SHALL HAVE TURNING VANES.
20. DUCT CONNECTION TO EQUIPMENT SHALL BE FABRICATED AFTER EQUIPMENT HAS BEEN SET IN PLACE AND DIMENSIONS VERIFIED.
21. MATCH DIFFUSER PROVIDED TO CEILING TYPE AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN. ALL DIFFUSERS SHALL BE SIMILAR TO TITUS OR EQUIVALENT. COLOR OF ALL DIFFUSERS, GRILLES, AND THERMOSTATS SHALL BE DETERMINED BY THE ARCHITECT.
22. IT WILL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO ROUTE ALL DUCTWORK, PIPING, AND LOCATE THE EQUIPMENT SHOWN ON THE DRAWINGS. ALL INTERFERENCES DUE TO ROUTING OF THE DUCTWORK, PIPING, OR EQUIPMENT WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. VERIFY ALL DIMENSIONS PRIOR TO FABRICATION, ERECTION OR CONSTRUCTION OF DUCTWORK. DRAWINGS MAY NOT REFLECT ACTUAL FIELD INSTALLATION.
23. COORDINATE DIFFUSER LOCATION WITH CEILING TILE AND LIGHTING LAYOUT AS SHOWN ON DRAWINGS. ALL LOCATIONS SHALL BE PER THE ARCHITECTURAL REFLECTED CEILING PLANS.
24. THE INSIDE OF ALL DUCTWORK VISIBLE THROUGH A GRILL OR DIFFUSER SHALL BE PAINTED FLAT BLACK.
25. WARRANTY:
  - A. FURNISH (1) YEAR SERVICE AND GUARANTEE ON ALL CONTROLS, DUCTWORK, EQUIPMENT AND MATERIALS AND A FIVE (5) YEARS EXTENDED WARRANTY FOR PAC-1, 2 & 3 UNITS.
26. AS BUILT DRAWINGS:
  - A. FURNISH THE OWNER THREE (3) SETS OF AS-BUILT DRAWINGS UPON COMPLETION OF THE WORK.
27. MECHANICAL SUBMITTALS:
  - A. SUBMITTALS: SUBMIT (4 SETS) OF SHOP DRAWINGS AND OTHER INFORMATION NECESSARY FOR THE ARCHITECT TO MAKE COMPLETE EVALUATION OF THE MATERIALS, ACCESSORIES, AND METHODS PROPOSED FOR THE WORK.
28. RECORD DRAWINGS:
 

THE CONTRACTOR SHALL MAINTAIN AT THE SITE A CLEAN UNDAMAGED SET OF BLUE- OR BLACK-LINE WHITE PRINTS OF THE CONTRACT DRAWINGS. THIS RECORD SET OF DRAWINGS SHALL BE MARKED TO SHOW THE ACTUAL INSTALLATION, AND WHERE THE ACTUAL INSTALLATION VARIES SUBSTANTIALLY FROM THE WORK AS ORIGINALLY SHOWN. MARK WHICHEVER DRAWINGS ARE MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE. MARK RECORD DRAWINGS WITH RED ERASABLE PENCIL; USE OTHER COLORS TO DISTINGUISH BETWEEN VARIATIONS IN SEPARATE CATEGORIES OF THE WORK.
29. CLOSEOUT SUBMITTALS:
  - A. CLOSEOUT DOCUMENTS SHALL INCLUDE, CERTIFICATE OF OCCUPANCY, ALL WARRANTIES, USERS MANUAL, WRITTEN MAINTENANCE INSTRUCTIONS FOR ALL MATERIAL AND EQUIPMENT, AND RECORD DOCUMENTS ('AS-BUILT'), SUBMITTALS AND CHANGE ORDERS.
  - B. CONTRACTOR SHALL SUBMIT 2 SETS OF BOUND AND ONE ELECTRONIC COPY OF O&M MANUALS FOR THE FOLLOWING ITEMS:
    - EXHAUST FANS
    - PIPING, VALVES, SPECIALTIES
    - CONTROL EQUIPMENT & SYSTEMS
30. CLEANING:
  - A. AFTER COMPLETING SYSTEM INSTALLATION, INCLUDING OUTLET FITTINGS AND DEVICES, INSPECT THE COMPLETE SYSTEM AND VACUUM ALL DUCTS TO REMOVE DUST AND DEBRIS, BEFORE FINAL ACCEPTANCE.



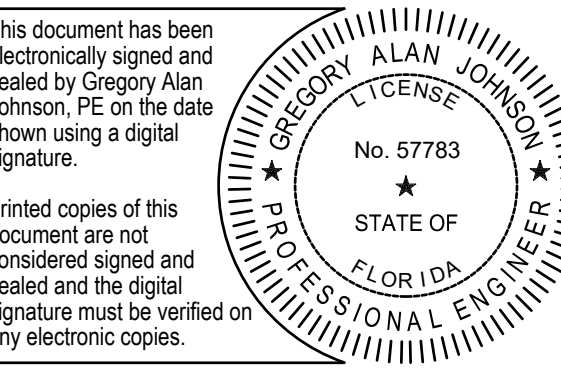
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Miami Lakes, FL 33014 USA  
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## ARCHITECT OF RECORD

## REVISION SCHEDULE

No.	DESCRIPTION	DATE
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GREGORY A. JOHNSON  
PE-57783

## ENGINEER OF RECORD

## PROJECT TEAM

### DESIGNER

GJ/GP

### BIM / DRAWINGS BY:

GP

### CHECKED BY:

GJ



## Naples Fire Station #2 Int. Renovation (Ceilings / HVAC)

6788-17-2974  
100% CD | 06/19/17

PROJECT NUMBER | STATUS | ISSUE DATE

## MECHANICAL SPECIFICATIONS

SCALE: -

# M-601

## SHEET NUMBER







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foster  
wheeler

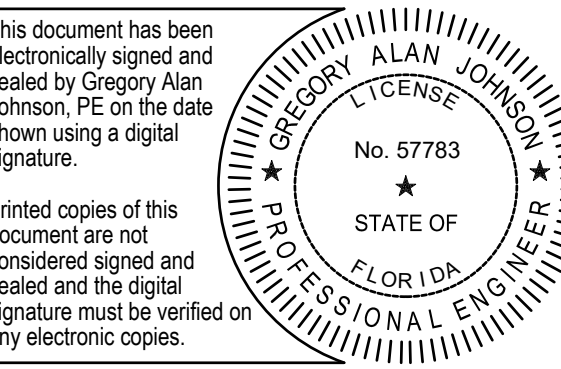
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GJ/GP

**BIM / DRAWINGS BY:**

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Int. Renovation  
(Ceilings / HVAC)**

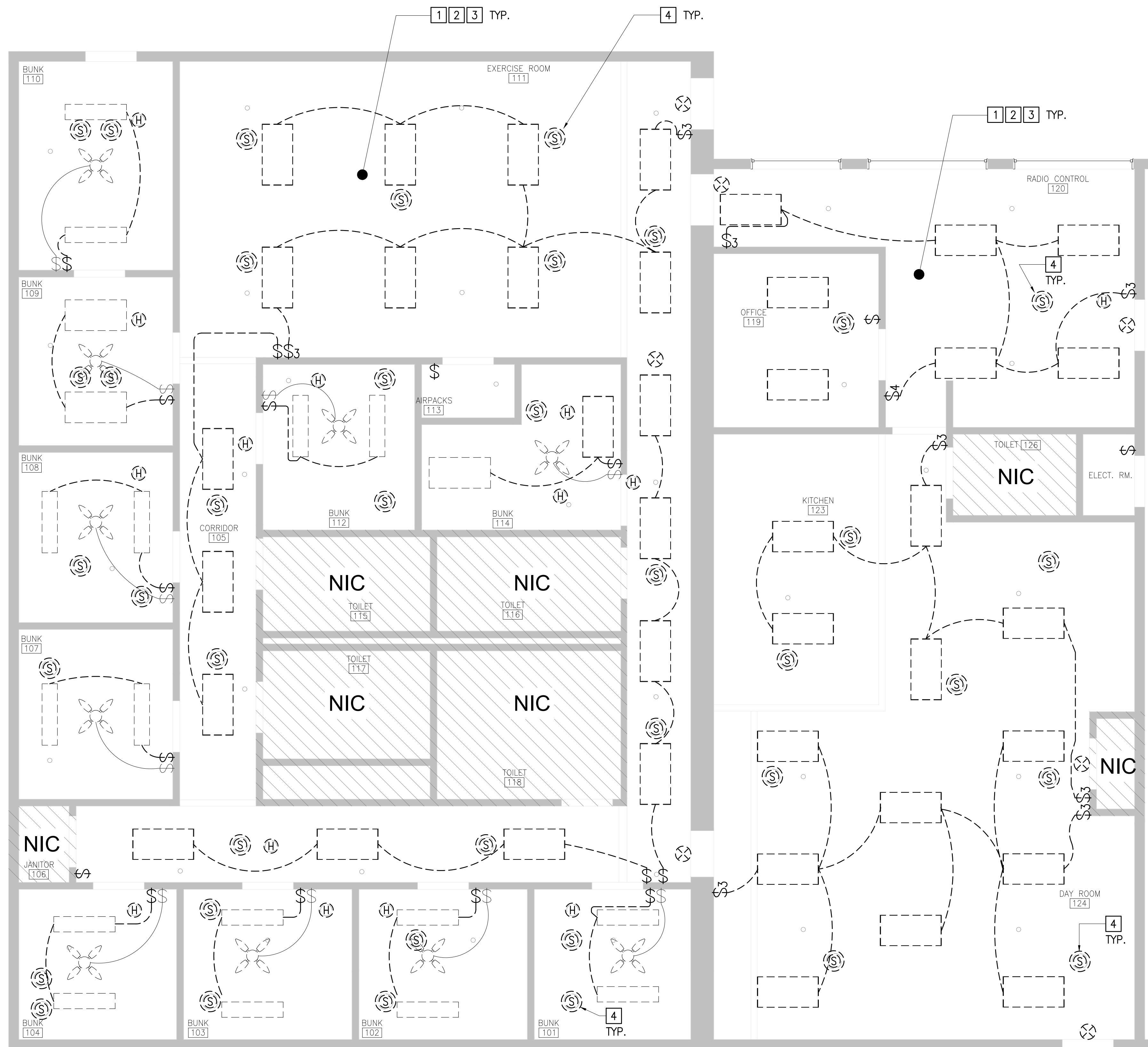
6788-17-2974  
100% CD | 06/19/17

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ISSUE DATE

**FIRST FLOOR LIGHTING  
PLAN - DEMOLITION  
WORK**

SCALE: AS SHOWN

**E-101  
SHEET NUMBER**



**LEGEND**

**DEMOLITION**

2X4 LIGHT FIXTURE

1X4 LIGHT FIXTURE

CEILING FAN

CEILING SPEAKER AND HORN

CEILING FIRE ALARM HORN

EXIT LIGHT

SPRINKLER HEAD (NOT IN CONTRACT)

EXISTING WALL MOUNTED LIGHT SWITCHES TO REMAIN.

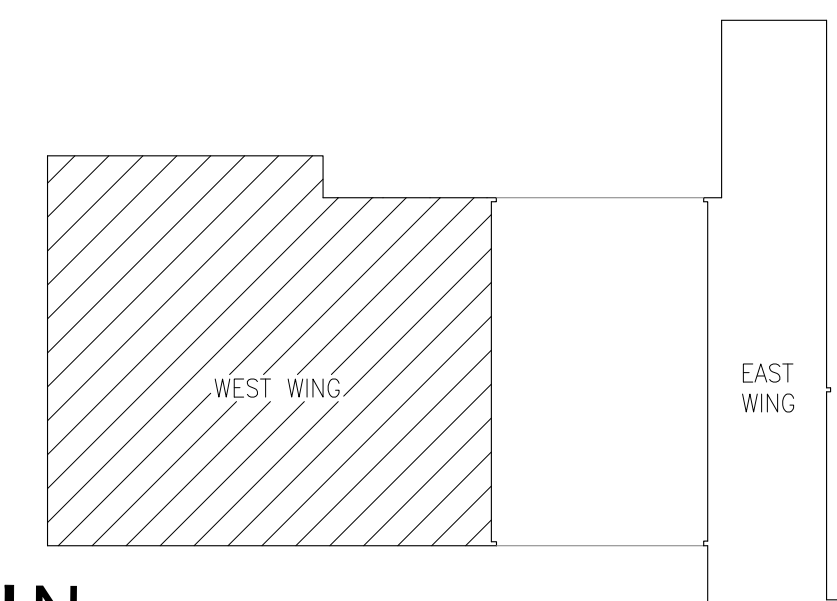
EXISTING WALL MOUNTED LIGHT SWITCHES TO BE REMOVED AND REPLACED WITH NEW

**GENERAL DEMOLITION NOTES:**

- EXISTING LIGHT FIXTURES ARE BEING REPLACED WITH BETTER PERFORMANCE AND ENERGY EFFICIENT LIGHT FIXTURES. ILLUMINATION POWER USAGE SHALL DECREASE AT LEAST 30%.
- REFER TO ARCHITECTURAL DRAWINGS FOR SCOPE OF WORK PHASING; THE FIRE STATION IS A 24/7 OPERATING FACILITY AND SHALL REMAIN IN OPERATION DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CITY REPRESENTATIVE A MINIMUM OF 72 HOURS PRIOR TO WORKING IN NEW AREAS WHICH REQUIRE COORDINATION WITH EXISTING FACILITY FUNCTION.

**DEMOLITION NOTES:**

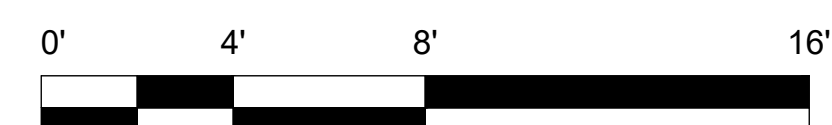
- ALL EXISTING CEILING MOUNTED LIGHT FIXTURES AND FANS WITHIN SCOPE OF WORK AREAS, AND ALL EXIT LIGHTS ARE BEING REMOVED; RETAIN BRANCH CIRCUIT IN PLACE FOR CONNECTION TO NEW LIGHTING/FANS. EXISTING EXIT LIGHTS (CEILING OR WALL MOUNTED) ARE TO BE REMOVED AND RE-INSTALLED AFTER ARCHITECTURAL CEILING WORK IS DONE.
- KEEP SWITCHING CONTROL IN PLACE FOR NEW LIGHTING/FANS.
- ALL EXISTING CEILING MOUNTED ELECTRICAL AND FIRE ALARM DEVICES, SPEAKERS, SENSORS, ETC. ARE TO BE DISCONNECTED AND TEMPORARILY REMOVED FOR NEW CEILING ARCHITECTURAL WORK; REINSTALL ALL DEVICES TO THEIR ORIGINAL LOCATION AND CIRCUITS ONCE NEW CEILING IS IN PLACE.
- DISCONNECT AND TAKE DOWN ALL SPEAKERS AND FIRE ALARM HORNS IN CEILING, TO BE RE-INSTALLED IN NEW CEILING. PROVIDE CEILING TYPE ADAPTER WHERE REQUIRED.



**FIRESTATION #2 - KEY PLAN**  
NOT TO SCALE

**FIRST FLOOR WEST WING LIGHTING PLAN  
DEMOLITION WORK**

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



GRAPHIC SCALE



amec  
foster  
wheeler

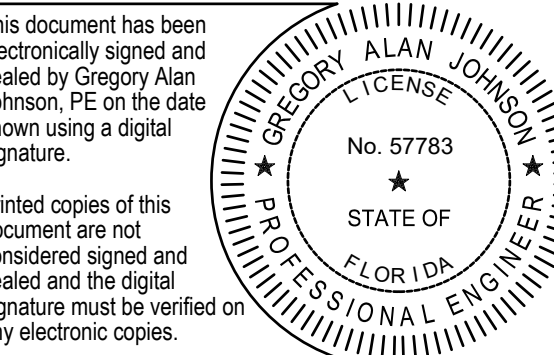
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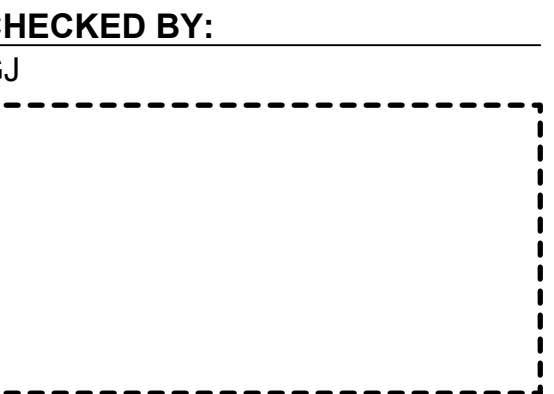
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PROJECT TEAM

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GJ/GP

BIM / DRAWINGS BY:  
GP

CHECKED BY:  
GJ



**Naples Fire Station #2  
Int. Renovation  
(Ceilings / HVAC)**

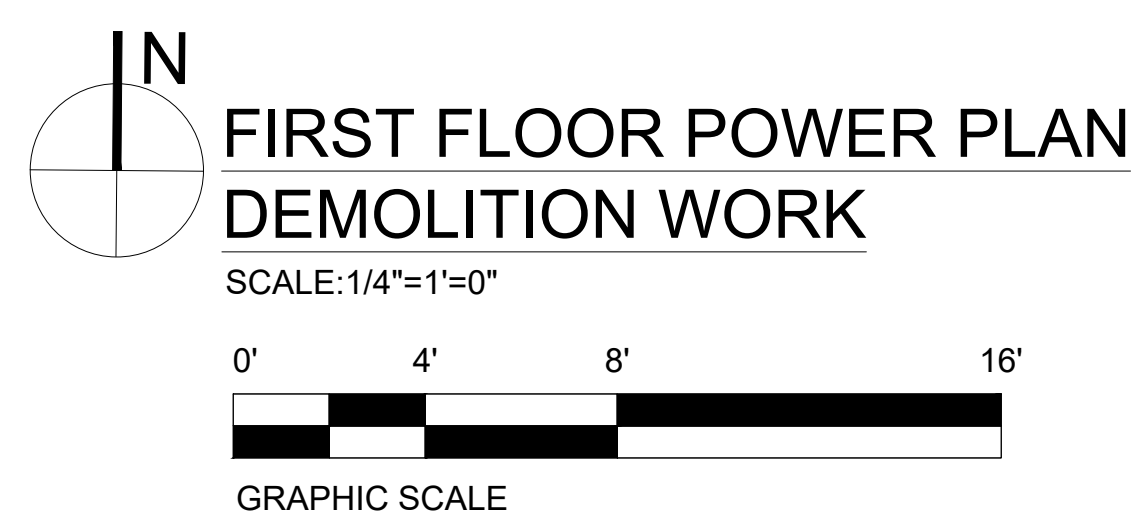
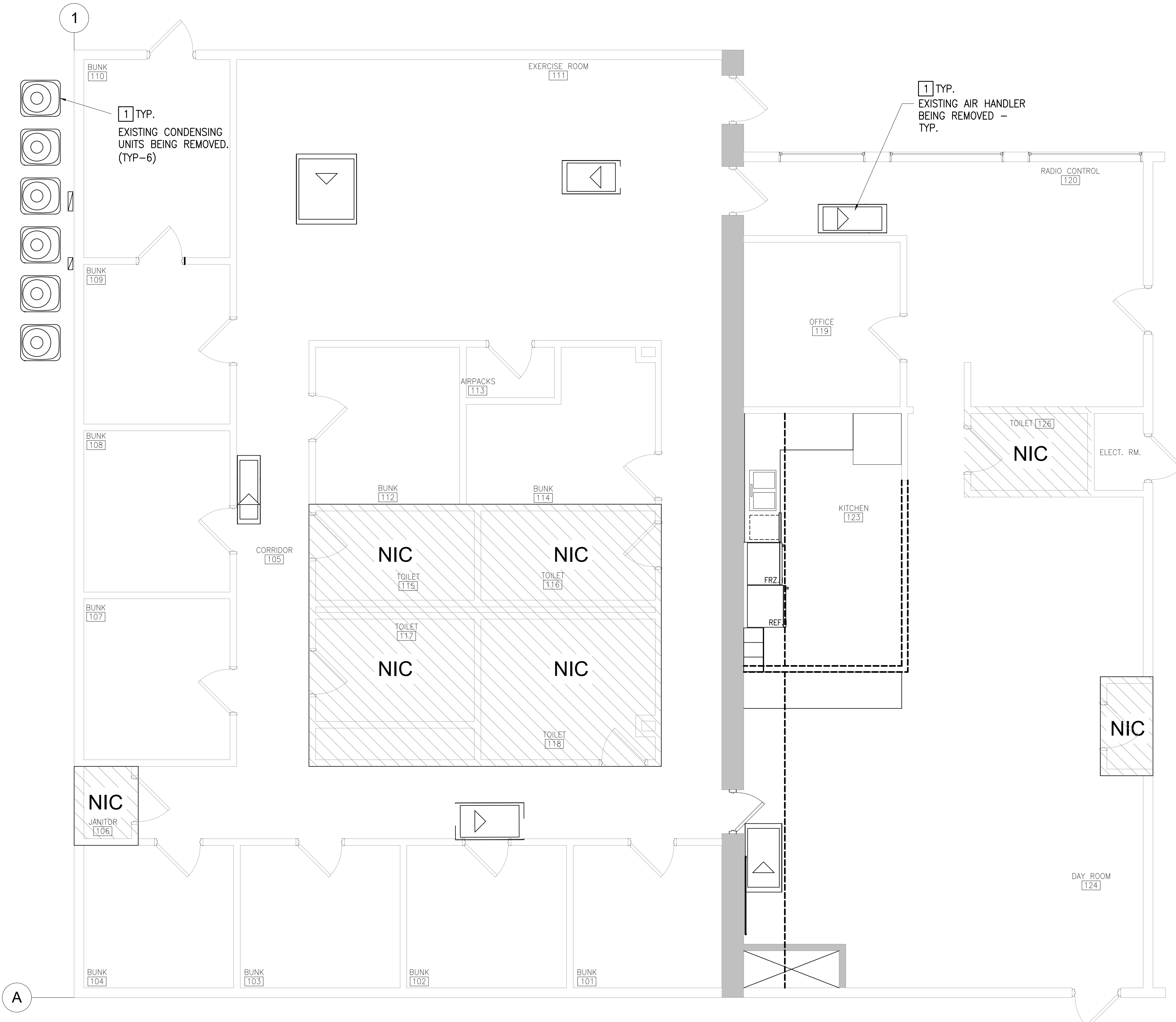
6788-17-2974  
100% CD | 06/19/17

PROJECT NUMBER | STATUS |  
ISSUE DATE

FIRST FLOOR POWER  
PLAN - DEMOLITION  
WORK

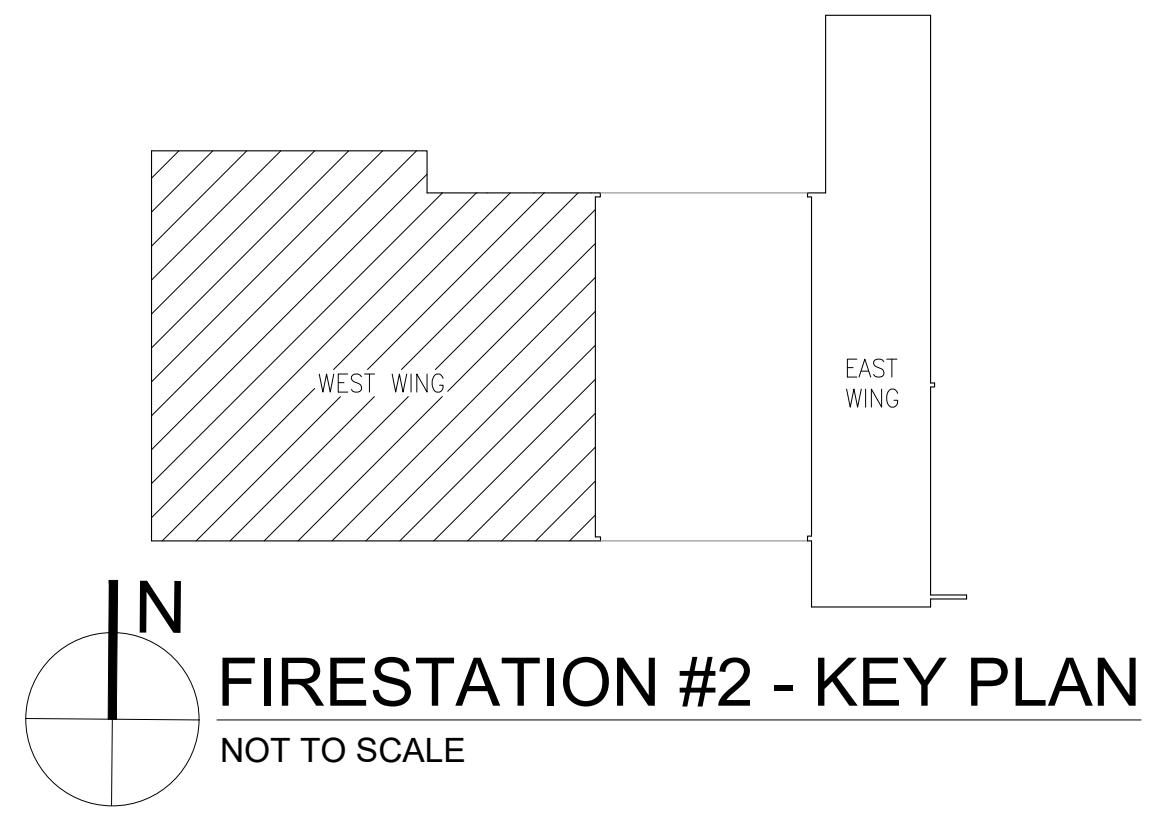
SCALE: AS SHOWN

**E-102**  
SHEET NUMBER



**GENERAL NOTE:**  
SEE GENERAL DEMOLITION NOTES ON SHEET E-000.

**DEMOLITION NOTES:**  
1 REMOVE ALL AHU'S & CONDENSING UNITS DISCONNECT SWITCHES AND BRANCH CIRCUIT WIRING BACK TO PANEL AC, SEE PANEL AC SCHEDULE.





amec foster wheeler

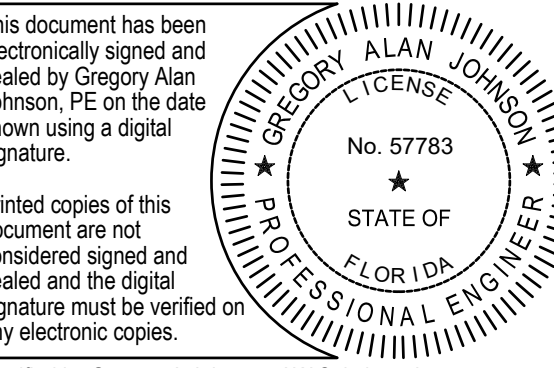
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FIRST FLOOR LIGHTING  
PLAN - REMODEL WORK

SCALE: AS SHOWN

**E-201**  
SHEET NUMBER

MARK	DESCRIPTION	REMARKS
OS	CEILING MOUNTED DUAL TECHNOLOGY, 360° COVERAGE	-
\$0(3)	WALL MOUNTED ON/OFF LIGHTING SWITCH ASSOCIATED WITH CEILING MOUNTED OCCUPANCY SENSOR CIRCUIT. (3) INDICATES 3-WAY	REFER TO OCCUPANCY SENSOR DETAIL ON SHEET E-401 FOR WIRING DIAGRAM.
\$0S	WALL MOUNTED DUAL TECHNOLOGY, 180° COVERAGE	-

NOTES:  
1. ALL OCCUPANCY SENSORS SHALL BE SAME MANUFACTURER.  
2. SOME OCCUPANCY SENSOR WILL NEED AUXILIARY POWER PACKS BUT ARE NOT SHOWN ON PLANS. PROVIDE AS NECESSARY.

LEGEND

NEW FIXTURES

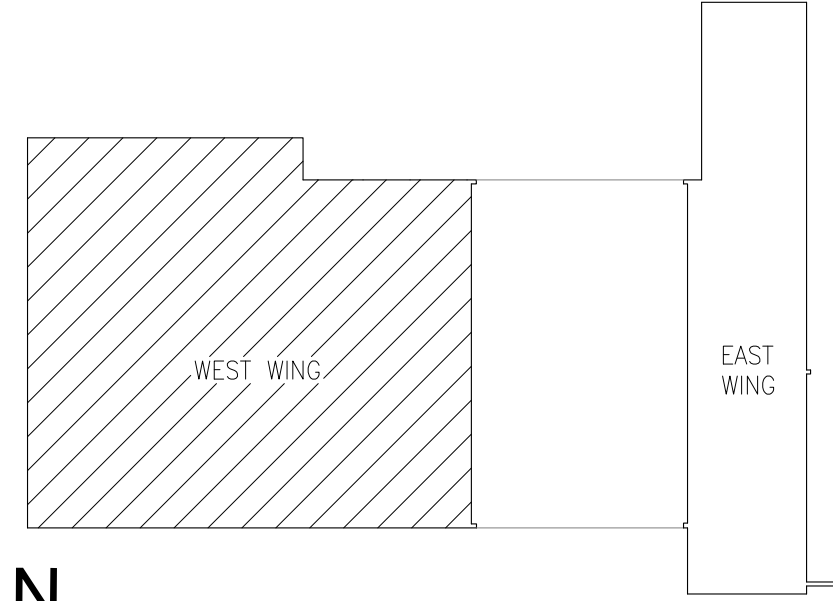
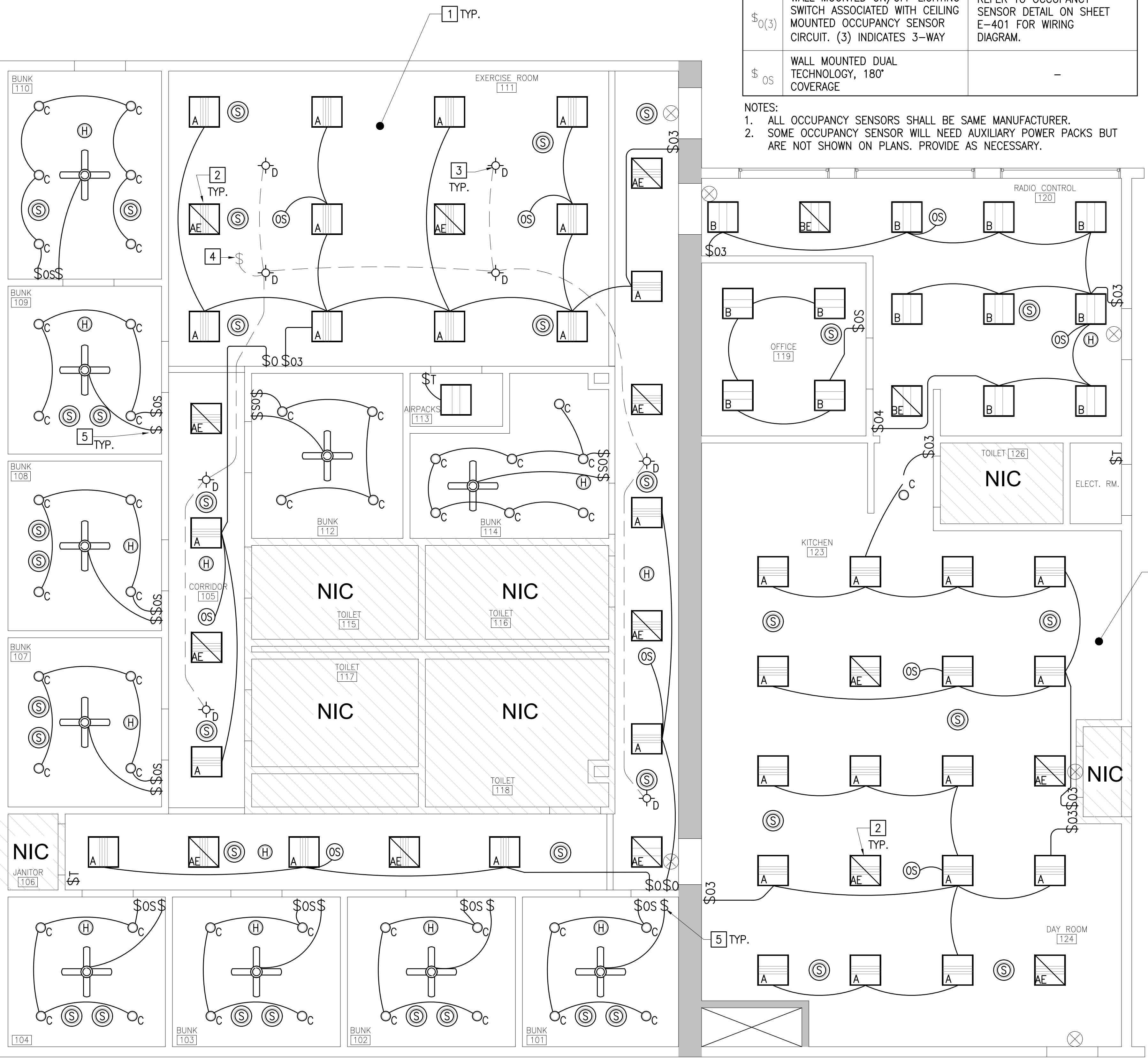
- 2X4 LIGHT FIXTURE
- 2X4 LIGHT FIXTURE W/BATTERY BACKUP
- 2X4 LIGHT FIXTURE
- 2X4 LIGHT FIXTURE W/BATTERY BACKUP
- DOWNLIGHT FIXTURE
- ATTIC FIXTURE
- CEILING FAN: MONTECARLO 3CLMR56BSD BRUSHED STEEL 3 BLADE 56" INDOOR WITH LED LIGHT (FROM LIGHTINGDIRECT.COM)
- RELOCATED CEILING SPEAKER AND HORN
- RELOCATED CEILING FIRE ALARM HORN
- EXIT LIGHT (EXISTING, RE-INSTALLED)

GENERAL NOTES:

- 1- EXISTING LIGHT FIXTURES ARE BEING REPLACED WITH BETTER PERFORMANCE AND ENERGY EFFICIENT LIGHT FIXTURES. ILLUMINATION POWER USAGE SHALL DECREASE AT LEAST 30%.
- 2- ALL LIGHTING SWITCHES SHOWN ARE NEW (SAME LOCATION). REFER TO OCCUPANCY SENSOR SCHEDULE THIS SHEET AND SYMBOL LEGEND ON SHEET E-000.

REMODEL NOTES:

- 1 CONNECT NEW LIGHTING/FANS TO EXISTING POWER AND SWITCH CONTROL IN ROOM. PROVIDE NEW LIGHT SWITCHES (AT SAME LOCATION) AND OCCUPANCY SENSORS AS SHOWN.
- 2 NEW LIGHTS PROVIDED WITH EMERGENCY BATTERY BACKUP. CONNECT (UNSWITCHED) TO EXISTING LIGHTING CIRCUIT IN ROOM.
- 3 STEM MOUNTED PENDANT LIGHT LOCATED IN ATTIC SPACE. MOUNT FOR MAXIMUM HEAD CLEARANCE UNDER FIXTURE. POWER FROM PANEL "S", VIA 3#12-1/2"C. SWITCH FROM WALL SWITCH LOCATED IN ATTIC AT ACCESS PANEL.
- 4 LIGHT SWITCH LOCATED IN ATTIC AT ACCESS PANEL. POWER FROM PANEL "S", VIA 3#12-1/2"C.
- 5 EXISTING FAN'S ON/OFF SWITCH AND WIRING TO REMAIN; RE-CONNECT TO NEW CEILING FANS - TYP.



FIRESTATION #2 - KEY PLAN  
NOT TO SCALE

FIRST FLOOR WEST WING LIGHTING PLAN  
REMODEL WORK  
SCALE: 1/4"=1'-0"  
GRAPHIC SCALE



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foster  
wheeler

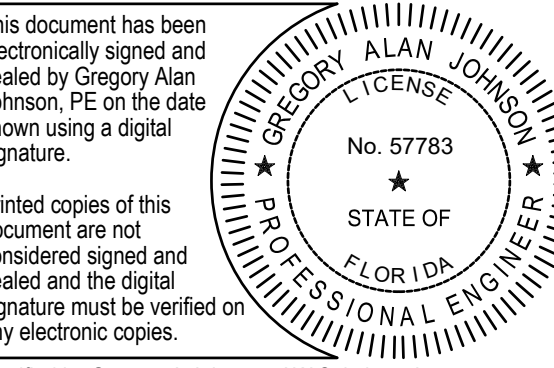
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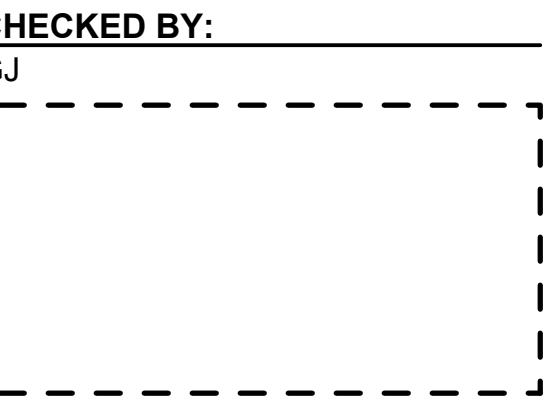
**ENGINEER OF RECORD**

**PROJECT TEAM**

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GJ/GP

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GP

**CHECKED BY:**  
GJ



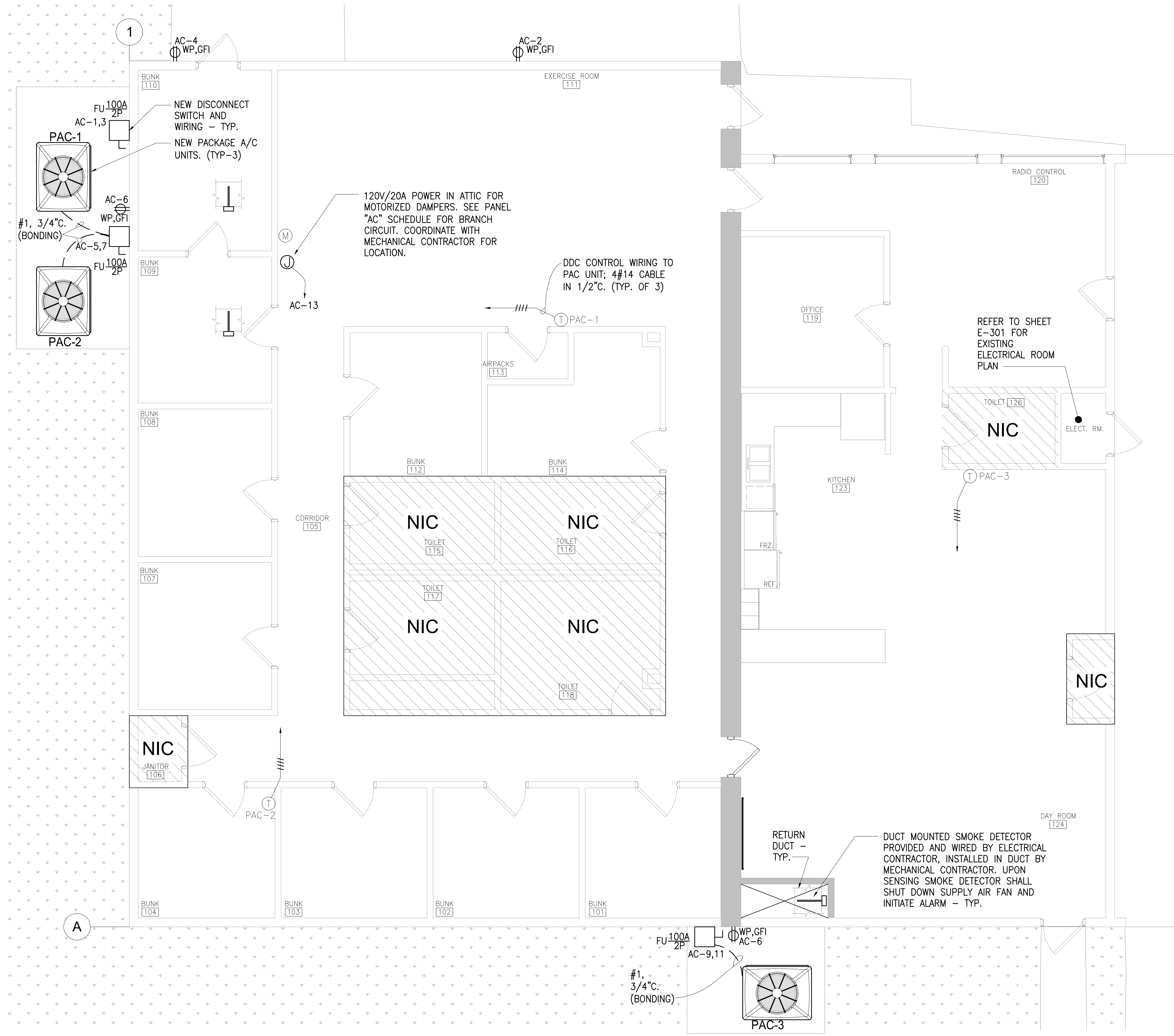
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**FIRST FLOOR POWER  
PLAN - REMODEL WORK**  
SCALE: AS SHOWN

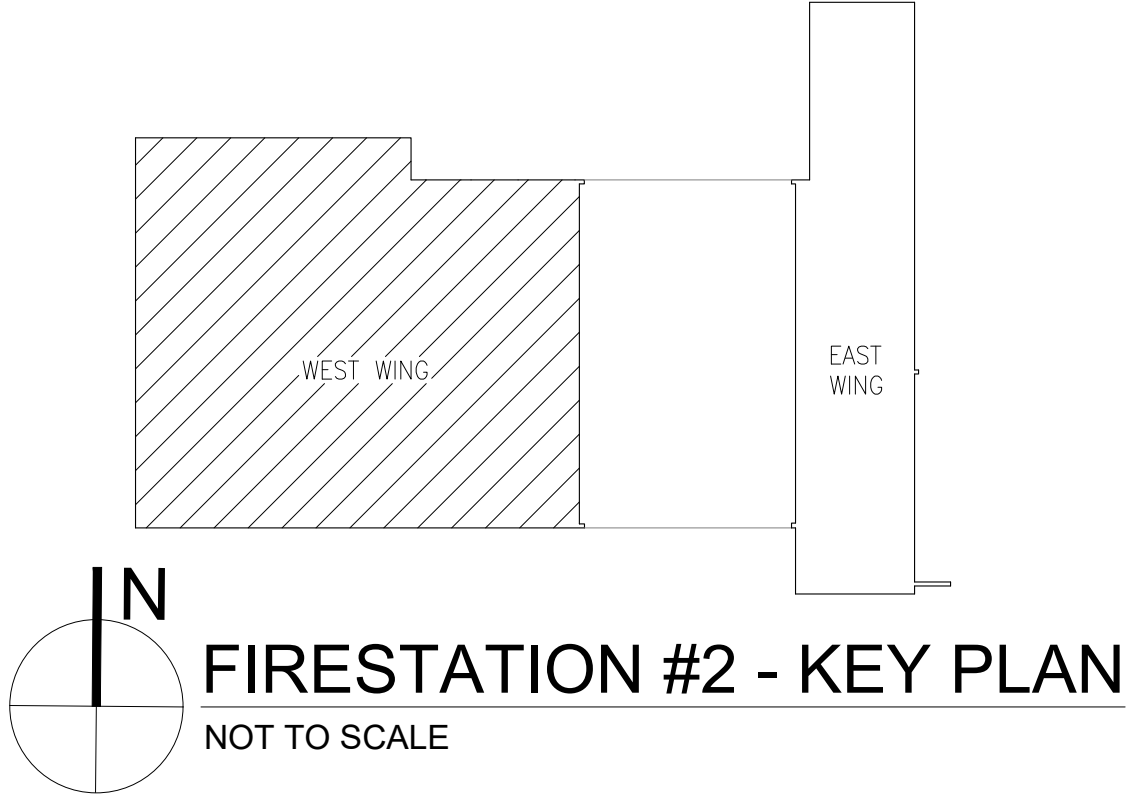
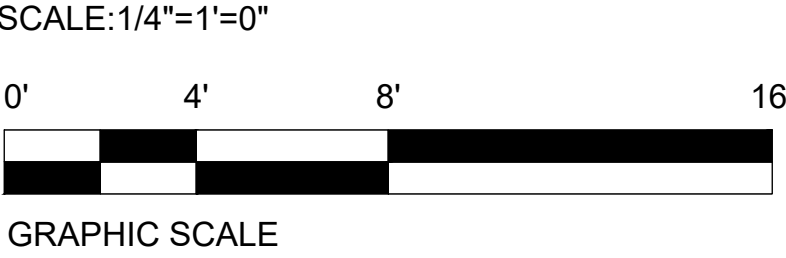
**E-202**  
**SHEET NUMBER**



**GENERAL NOTE:**

FOR NEW PACKAGE A/C UNITS, PROVIDE NEW NEMA 3R DISCONNECT SWITCH AS SHOWN; REFER TO PANEL SCHEDULE FOR CONDUIT AND WIRING SIZES.

**FIRST FLOOR WEST WING POWER PLAN  
REMODEL WORK**





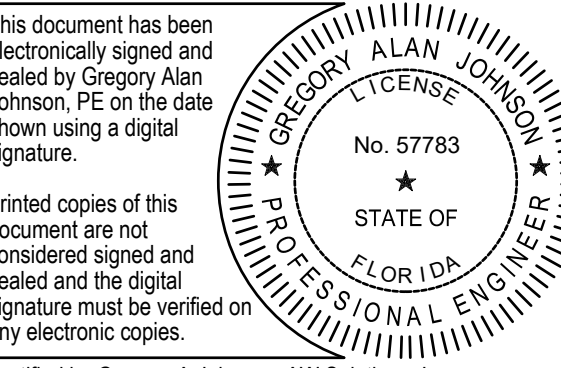
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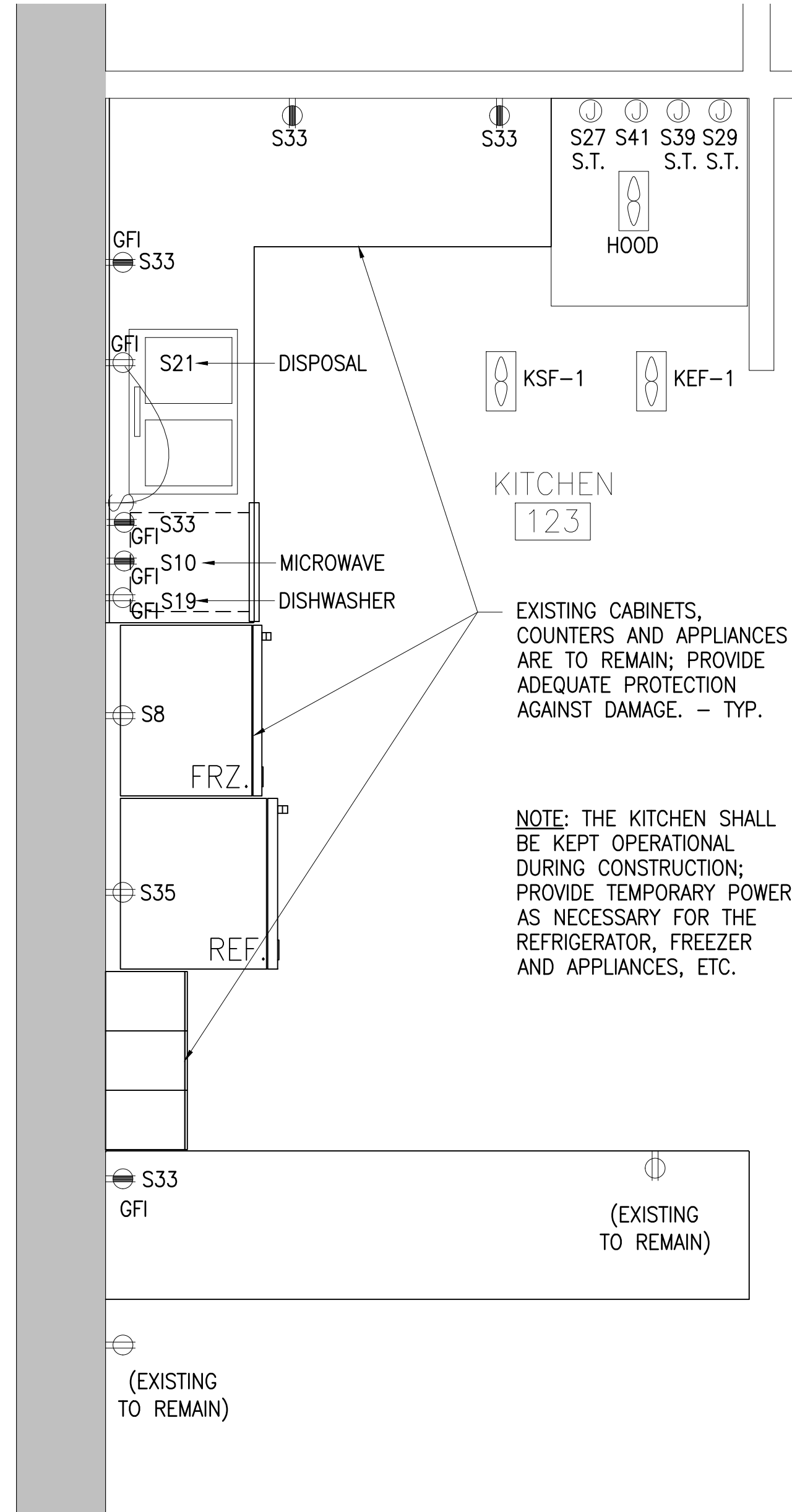
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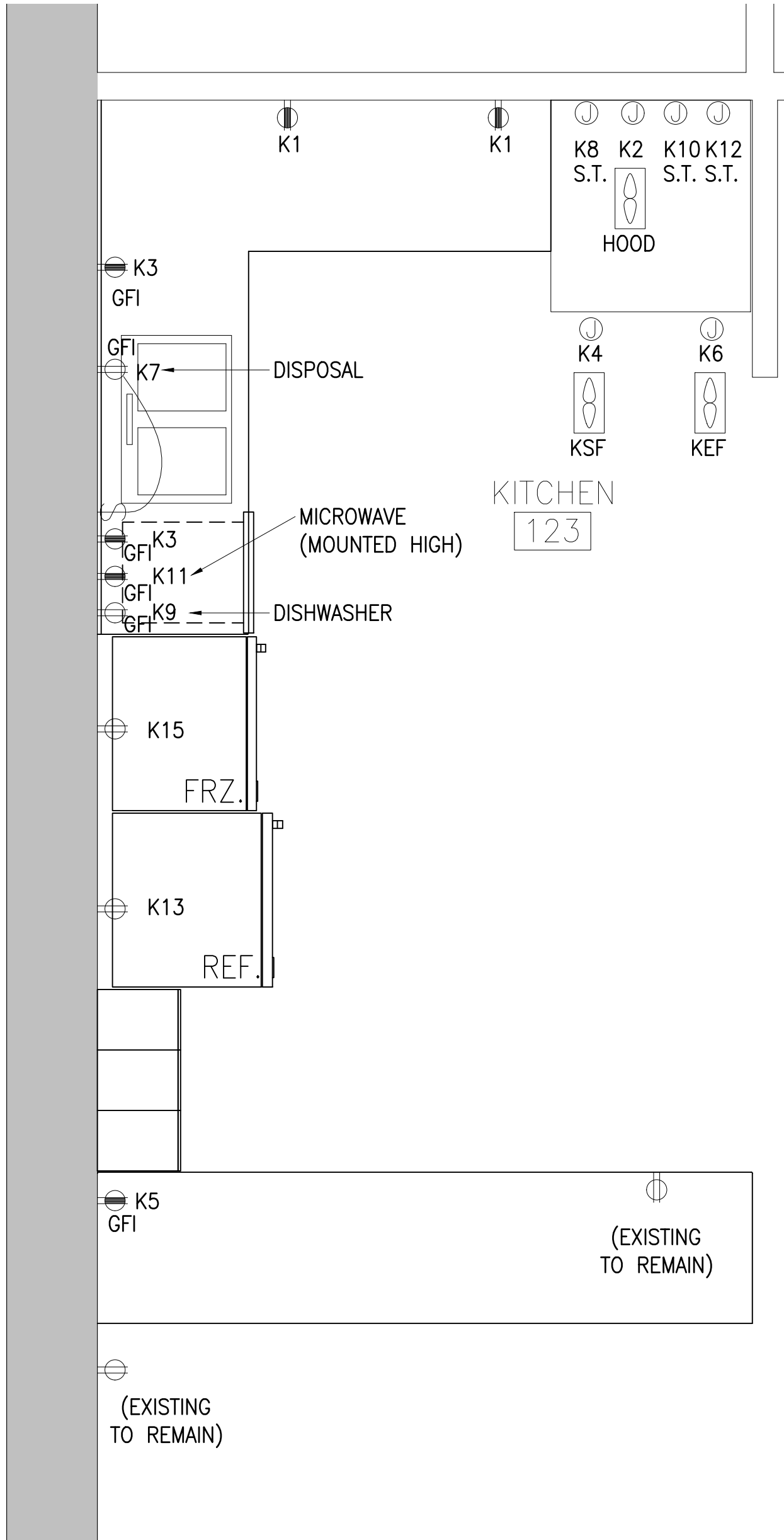
PARTIAL FIRST FLOOR POWER PLAN - KITCHEN REMODEL WORK

SCALE: AS SHOWN

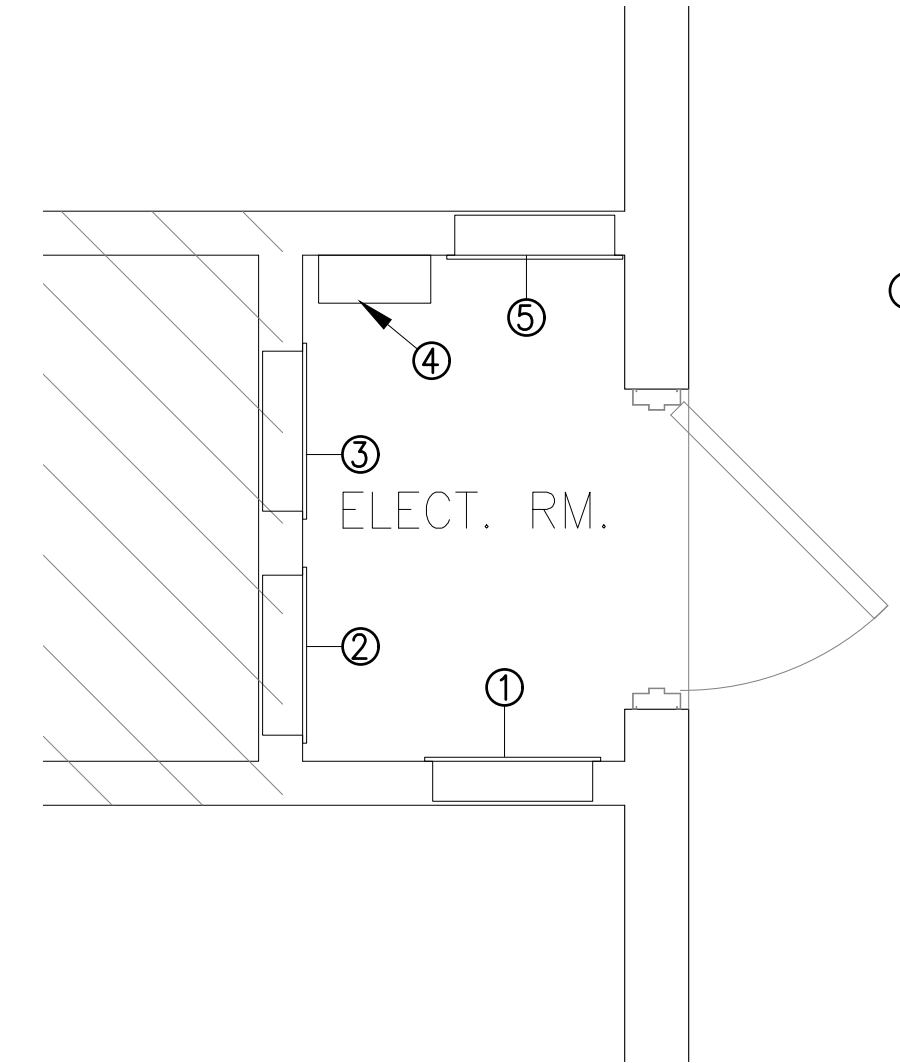
**E-301**  
**SHEET NUMBER**



**KITCHEN DEMO PLAN**  
SCALE: 1/2"=1'-0"

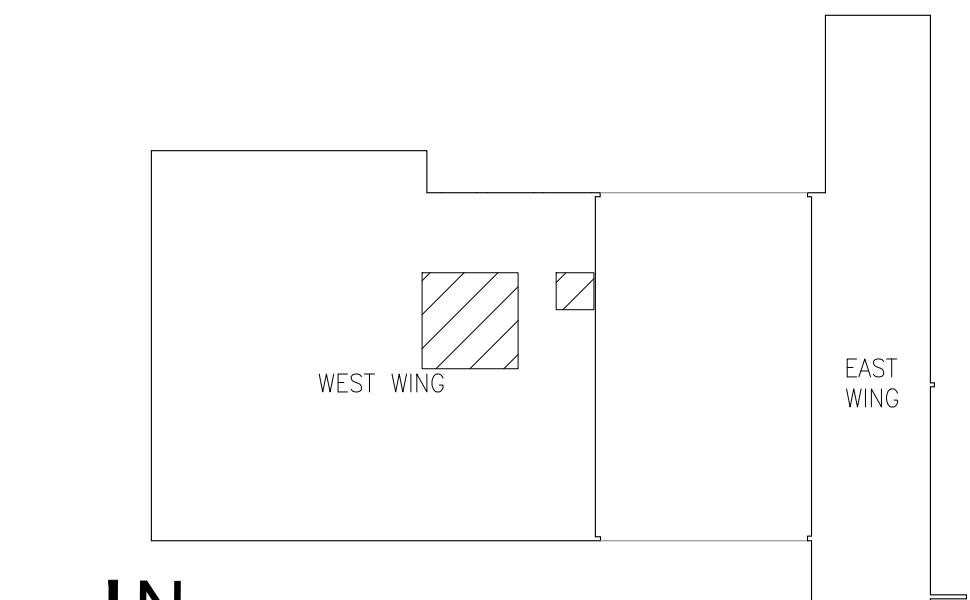


**KITCHEN RECIRCUITED PLAN**  
SCALE: 1/2"=1'-0"



- PLAN NOTES:**
- EXISTING PANEL "EQ"
  - EXISTING PANEL "AC"
  - EXISTING PANEL "S"
  - BIO HAZARD DISPOSAL
  - NEW PANEL "K"

**ELECTRICAL ROOM PLAN**  
SCALE: 1/2"=1'-0"



**FIRESTATION #2 - KEY PLAN**  
NOT TO SCALE

VOLTAGE TO GROUND NOMINAL	WORKING SPACES			
	MINIMUM CLEAR DISTANCE (FEET) CONDITION:	1	2	3
0-150		3	3	3
151-600		3	3 1/2	4

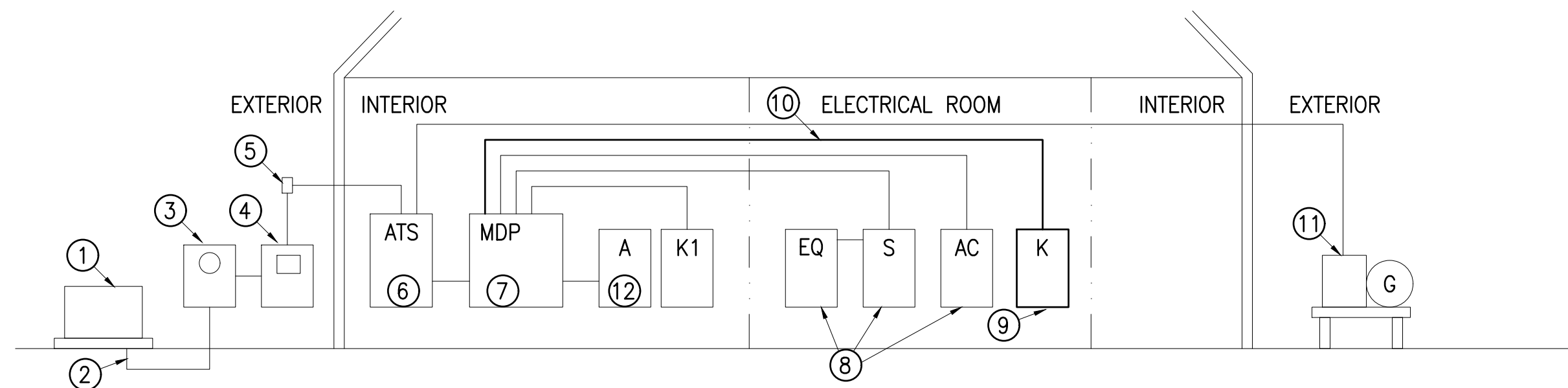
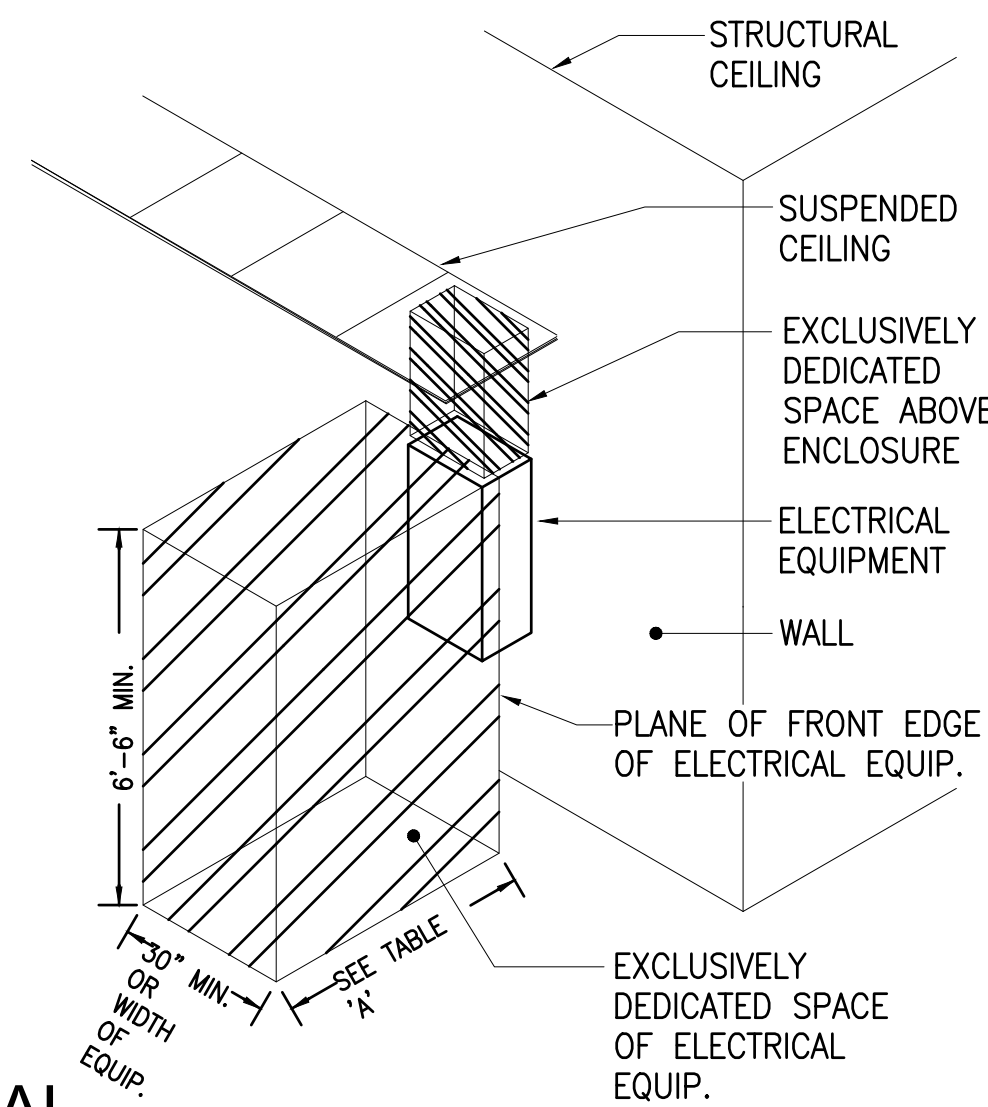
WHERE THE "CONDITIONS" ARE AS FOLLOWS:

1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

NOTE: THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110-26 OF THE NATIONAL ELECTRICAL CODE.

## WORKING CLEARANCE FOR ELECTRICAL EQUIPMENT

NOT TO SCALE

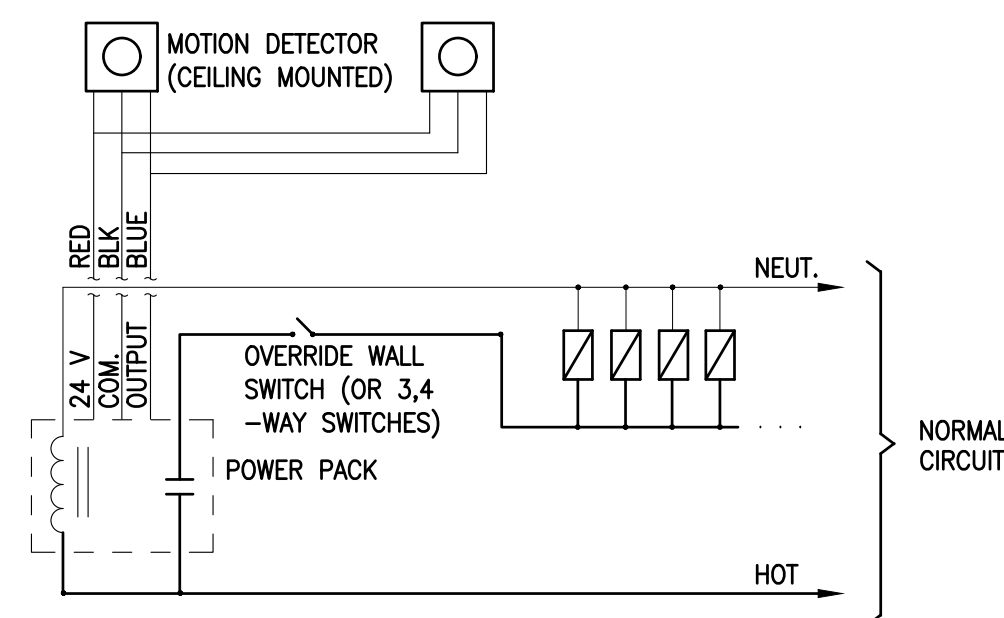


### POWER RISER MODIFICATION NOTES:

1. EXISTING UTILITY PAD MOUNTED TRANSFORMER, 120/240V, 3 $\phi$ , 4W.
2. EXISTING SERVICE METER TO REMAIN.
3. EXISTING UTILITY METER AND CT CABINET TO REMAIN.
4. EXISTING SERVICE DISCONNECT CIRCUIT BREAKER, 600A/3P AT 120/240V, 3 $\phi$ , 4W.
5. EXISTING LB PENETRATION INTO BUILDING.
6. EXISTING ATS.
7. EXISTING MAIN PANEL "MDP", PROVIDE NEW 100A/2P BREAKER IN AVAILABLE 2P SPACE. BREAKER SHALL BE FULLY COMPATIBLE WITH EXISTING PANEL CHARACTERISTICS.
8. EXISTING PANELS TO REMAIN. REMOVE CIRCUITS FROM PANEL "S" SERVING KITCHEN LOADS FOR RELOCATION TO NEW PANEL "K". SEE SCHEDULES ON SHEET E-501.
9. NEW PANEL "K", 100A, 120/240V, 1 $\phi$ , 3W, 14K AIC, 100% NEUTRAL, 30 POLES, COPPER OR ALUMINUM BUSSING, TO BE LOCATED IN ELECTRICAL CLOSET WALL MOUNTED OPPOSED TO EXISTING PANEL "EQ".
10. NEW FEEDER (2)#3, #3 NEUTRAL, #8G. IN 1-1/2" C. RUN FROM NEW 100A/2P BREAKER IN EXISTING PANEL "MDP" TO NEW PANEL "K".
11. EXISTING NATURAL GAS GENERATOR TO REMAIN.
12. EXISTING PANEL "A" TO BE REMOVED AND REPLACED WITH NEW PANEL OF SAME CHARACTERISTICS. SEE SCHEDULE ON SHEET E-501.

## ELECTRICAL RISER DIAGRAM

NOT TO SCALE



## OCCUPANCY SENSOR (CEILING MOUNTED) W/OVERRIDE SWITCH

NOT TO SCALE



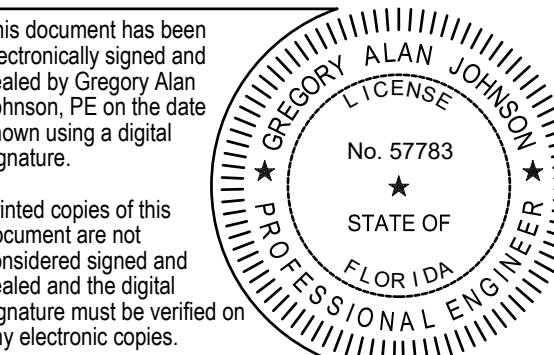
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### ARCHITECT OF RECORD

### REVISION SCHEDULE

No.	DESCRIPTION	DATE
0	FOR PERMIT	06/19/17



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GREGORY A. JOHNSON  
PE-57783

### ENGINEER OF RECORD

### PROJECT TEAM

#### DESIGNER

GJ/GP

#### BIM / DRAWINGS BY:

GP

#### CHECKED BY:

GJ

## Naples Fire Station #2 Int. Renovation (Ceilings / HVAC)

6788-17-2974  
100% CD | 06/19/17

PROJECT NUMBER | STATUS | ISSUE DATE

### ELECTRICAL DETAILS

SCALE: NOT TO SCALE

# E-401

## SHEET NUMBER



amec foster wheeler

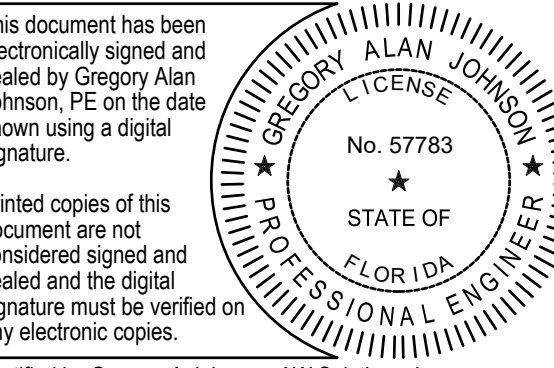
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Gregory A. Johnson, PE-57783

ENGINEER OF RECORD

PROJECT TEAM

DESIGNER: GJ/GP

BIM / DRAWINGS BY: GP

CHECKED BY: GJ



Naples Fire Station #2 Int. Renovation (Ceilings / HVAC) 6788-17-2974 100% CD | 06/19/17

PROJECT NUMBER | STATUS | ISSUE DATE

ELECTRICAL SCHEDULES

SCALE: -

E-501 SHEET NUMBER

Table with columns: LOCATION, MANUFAC, MODEL, MTG, ELEC RM, EXISTING, RECESSED, PANEL FED FROM, VOLTS, A/C MDP, PROJECT, FIRE STATION NO 2, JOB No, DATE, EXISTING, AIC, CONN, VA, #, LOAD, Ph, N, G, C, BKR, A, B, C, BKR, Ph, N, G, C, LOAD, #, VA. Includes notes on panel capacity and demand calculations.

Table with columns: LOCATION, MANUFAC, MODEL, MTG, ELEC RM, EXISTING, RECESSED, PANEL FED FROM, VOLTS, S MDP, PROJECT, FIRE STATION NO 2, JOB No, DATE, EXISTING, AIC, CONN, #, LOAD, Ph, N, G, C, BKR, A, C, BKR, Ph, N, G, C, LOAD, #. Includes notes on panel capacity and demand calculations.

Table with columns: LOCATION, MANUFAC, MODEL, MTG, ELEC RM, EXISTING, RECESSED, PANEL FED FROM, VOLTS, A/C MDP, PROJECT, FIRE STATION NO 2, JOB No, DATE, EXISTING, AIC, CONN, VA, #, LOAD, Ph, N, G, C, BKR, A, B, C, BKR, Ph, N, G, C, LOAD, #, VA. Includes notes on panel capacity and demand calculations.

Table with columns: LOCATION, MANUFAC, MODEL, MTG, ELECTRICAL AREA, EXISTING TO REMAIN, SURF, PANEL FED FROM, VOLTS, MDP UTILITY, PROJECT, FS#2, JOB No, DATE, EXISTING, AIC, CONN, VA, #, LOAD, Ph, N, G, C, BKR, A, B, C, BKR, Ph, N, G, C, LOAD, #, VA. Includes notes on panel capacity and demand calculations.

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# ELECTRICAL SPECIFICATIONS

## SECTION 16000 – ELECTRICAL

### GENERAL:

1. SCOPE: ELECTRICAL WORK INCLUDES THE FOLLOWING SYSTEMS:

POWER DISTRIBUTION  
LIGHTING  
TELEPHONE/DATA RACEWAY  
FIRE ALARM

2. QUALITY ASSURANCE: THE COMPLETE ELECTRICAL INSTALLATION SHALL COMPLY WITH THE CURRENT EFFECTIVE EDITION OF THE FOLLOWING CODES:

NFPA 70 – NATIONAL ELECTRICAL CODE

NFPA 110 – EMERGENCY & STANDBY POWER SYSTEMS

NFPA 72 – INSTALLATION, MAINTENANCE AND USE OF PROTECTIVE SIGNALING SYSTEM

NFPA 90A – INSTALLATION OF AIR CONDITIONING SYSTEMS

NFPA 101 – LIFE SAFETY CODE

2014 FLORIDA BUILDING CODE

3. SUBMITTALS:

A. SUBMIT (4 SETS) OF SHOP DRAWINGS AND OTHER INFORMATION NECESSARY FOR THE ARCHITECT TO MAKE COMPLETE EVALUATION OF THE MATERIALS, ACCESSORIES, AND METHODS PROPOSED FOR THE WORK.

B. CONTRACTOR SHALL SUBMIT 2 SETS OF BOUND AND ONE ELECTRONIC COPY OF O&M MANUALS.

SHOP DRAWINGS AND O&M SHALL BE FOR THE FOLLOWING: LIGHT FIXTURES AND ALARM SYSTEMS.

4. RECORD DRAWINGS:

THE CONTRACTOR SHALL MAINTAIN AT THE SITE A CLEAN UNDAMAGED SET OF BLUE- OR BLACK-LINE WHITE PRINTS OF THE CONTRACT DRAWINGS. THIS RECORD SET DRAWINGS SHALL MARKED TO SHOW THE ACTUAL INSTALLATION, AND WHERE THE ACTUAL INSTALLATION VARIES SUBSTANTIALLY FROM THE WORK AS ORIGINALLY SHOWN. MARK WHICHEVER DRAWINGS ARE MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE. MARK RECORD DRAWINGS WITH RED ERASABLE PENCIL; USE OTHER COLORS TO DISTINGUISH BETWEEN VARIATIONS IN SEPARATE CATEGORIES OF THE WORK.

5. CLOSEOUT DOCUMENTS:

SHALL INCLUDE, CERTIFICATE OF OCCUPANCY, ALL WARRANTIES, USERS MANUAL, WRITTEN MAINTENANCE INSTRUCTIONS FOR ALL MATERIAL AND EQUIPMENT, AND RECORD DOCUMENTS ('AS-BUILT'), SUBMITTALS AND CHANGE ORDERS.

### PRODUCTS:

4. ALL MATERIAL SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITERS LABORATORIES.

5. CONDUITS SHALL BE 3/4" MINIMUM SIZE, RIGID GALVANIZED STEEL, INTERMEDIATE METAL CONDUIT, LIQUID TIGHT FLEXIBLE CONDUIT, ELECTRICAL METALLIC TUBING, FLEXIBLE METAL CONDUIT, METAL CLAD CABLE OR RIGID NON METALLIC CONDUIT, AND SHALL BE SIZED AND APPLIED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. CONDUIT FITTINGS SHALL BE ALL PLATED STEEL, THREADED OR COMPRESSION TYPE.

6. OUTLET AND JUNCTION BOXES SHALL BE 4" SQUARE MINIMUM SIZE, GALVANIZED, STAMPED STEEL, EXCEPT AS NOTED. OUTLET BOXES SHALL BE EQUIPED WITH PLASTER RINGS OF APPROPRIATE DEPTH TO FINISH FLUSH WITH FINISHED WALL. MULTIGANG BOXES SHALL BE OF SINGLE PIECE CONSTRUCTION. OUTLET BOXES IN CONCRETE OR MASONRY WALLS SHALL BE MASONRY TYPE. OUTLET BOXES FOR EXPOSED EXTERIOR WALLS SHALL BE WEATHERPROOF WITH THREADED CONDUIT HUBS.

7. WIRES AND CABLES SHALL BE COPPER CONDUCTORS AND HAVE APPROVED INSULATION FOR THE SPACES WHERE THEY ARE TO BE USED AND SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. THE MINIMUM TEMPERATURE RATING SHALL BE 75°C, TYPE THHN/THWN.

8. NO WIRE SMALLER THAN #12 SHALL BE USED FOR LIGHTING, DUPLEX, AND MOTOR CIRCUITS. ALL WIRE #10 GAUGE AND SMALLER MAY BE SOLID OR STRANDED CONDUCTOR. FOR SIZE #8 AND LARGER STRANDED CABLE SHALL BE USED. ALL WIRES AND CABLES SHALL BE INSTALLED IN CONDUIT UNLESS OTHERWISE NOTED. "IDEAL WIRE LUBE" OR EQUAL SHALL BE USED AS A LUBRICANT. WHERE THE DISTANCE FROM THE PANEL BOARD TO THE LAST OUTLET ON ANY 120V CIRCUIT EXCEEDS 50', THE BRANCH CIRCUIT WIRE FROM THE FIRST OUTLET BEYOND 50' FROM THE PANEL BOARD SHALL NOT BE SMALLER THAN #10 AWG.

9. WIRING DEVICES SHALL BE THREE-WIRE, SPECIFICATION GRADE, 20 AMPERE MINIMUM, DUAL VOLTAGE SWITCHES, DUPLEX RECEPTACLES AND GROUND-FAULT CIRCUIT INTERRUPTING RECEPTACLES. PROVIDE 302 SATIN STAINLESS STEEL PLATES FOR FINISHED AREAS. PROVIDED GASTED WEATHERPROOF COVERPLATES FOR EXTERIOR AREAS. SWITCHES AND PLATES FOR ALUMINUM MULLIONS SHALL BE "THINLINE". COVER PLATES SHALL BE INSTALLED ON ALL SWITCHES, DUPLEX RECEPTACLES, TELEPHONE AND OTHER OUTLETS. DEVICES SHALL BE MANUFACTRED BY HUBBELL, BRYANT ELECTRIC COMPANY, LEVITON OR P & S COMPANY.

10. SAFETY SWITCHES SHALL BE GENERAL DUTY, QUICK-MAKE, QUICK-BREAK, TYPES OF THE SIZE AND FUSE AMPACITY AS DENOTED ON THE DRAWINGS. PROVIDE GROUND BUS, SOLID NEUTRAL, CLASS RK-5 DUAL ELEMENT, TIME DELAY FUSES, AND NEMA RELATED ENCLOSURE.

11. ALL GROUNDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, AND AS REQUIRED BY THE DRAWINGS.

12. BRANCH CIRCUIT BREAKERS SHALL BE OF INDIVIDUAL UNIT CONSTRUCTION COMPLETE WITH QUICK-MAKE, QUICK-BREAK MECHANISM; THERMAL MAGNETIC TRIP; AMBIENT COMPENSATION; AND SHALL BE INTERCHANGEABLE IN THE PANELBOARD ASSEMBLY IN RATINGS FROM 15 TO 100 AMPERES WITHOUT NECESSITATING BUS, LINK OR ASSEMBLY REARRANGEMENT. CIRCUIT BREAKERS SHALL HAVE SUITABLE SCREW TYPE LINE TERMINALS SO THAT THEY WILL BE HELD IN POSITIVE CONTACT WITH THEIR RESPECTIVE LINKS OR BUSSES.

13. LAMPS AND LIGHTING FIXTURES SHALL BE AS DESCRIBED IN LIGHT FIXTURES SCHEDULE ON THE DRAWINGS.

### INSTALLATION:

14. ALL CIRCUIT WIRING SHALL BE INSTALLED IN CONDUIT. IN GENERAL, CONCEAL CONDUIT IN CEILINGS AND WALLS, ROUTE AT THE CEILING AND FEED DOWN TO OUTLETS ON THE WALLS. IN MECHANICAL AREAS OF THE BUILDING, CONDUIT SHALL BE EXPOSED AND ROUTED ON SURFACE OF THE CEILING AND/OR WALLS AS HIGH AS POSSIBLE AND ROUTED SO AS TO NOT INTERFERE WITH OTHER TRADES.

15. RGS CONDUIT SHALL BE USED IN ALL AREAS SUBJECTED TO PHYSICAL DAMAGE. FLEX CONDUIT SHALL BE USED FOR ALL CONNECTIONS TO EQUIPMENT SUBJECT TO VIBRATION. EMT MAY BE INSTALLED ONLY IN CONCEALED INTERIOR SPACES ABOVE CEILINGS, OR IN WALLS. SCHEDULE 40 PVC WITH A GROUND WIRE MAY BE USED IN THE FLOOR SLABS OR EXTERIOR BELOW GRADE. NO EXPOSED PVC WILL BE ALLOWED.

16. BEFORE INSTALLING OUTLETS, THE ELECTRICAL CONTRACTOR SHALL CONFER WITH THE ARCHITECT TO DETERMINE IF THE OUTLETS ARE TO BE INSTALLED AT HEIGHTS OTHER THAN THOSE GIVEN HEREIN.

17. FURNISH AND INSTALL ANY MISCELLANEOUS METAL OR WOOD SUPPORTS, FASTENERS, MOUNTS, HANGERS, SIDE BRACES, ETC., WHICH MAY BE REQUIRED TO SECURELY ANCHOR AND SUPPORT ELECTRICAL EQUIPMENT FURNISHED UNDER THIS CONTRACT.

18. MAKE PROVISION AND PROVIDE POWE WIRING INCLUDING FINAL EQUIPMENT CONNECTION TO ALL EQUIPMENT FURNISHED AND INSTALLED BY OTHERS. VERIFY THE EXACT REQUIREMENT OF EQUIPMENT BEFORE INSTALLATION OF ELECTRICAL WORK.

19. ALL REQUIRED BUILDING PERMIT FOR THE ELECTRIAL PORTION OF THE WORK SHALL BE INCLUDED. A FINAL INSPECTION BY THE OWNER, ARCHITECT, ENGINEER, AND ALL INVOLVED AGENCIES WILL BE CONDUCTED UPON COMPLETION OF THE WORK TO DETERMINE ACCEPTABILITY OF THE WORK. IN ADDITION, AN INSPECTION BY THE ELECTRICAL INSPECTOR AND CERTIFICATE OF APPROVAL WILL BE REQUIRED PRIOR TO FINAL PAYMENT FOR THE WORK. ALL FEES FOR BUILDING PERMITS AND ELECTRICAL INSPECTIONS SHALL BE INCLUDED.

END OF SECTION 16000

CONTRACTOR SHALL REVIEW ARCHITECTURAL LIFE SAFETY DRAWINGS FOR FIRE RATED PARTITIONS AND PROVIDE U.L. LISTED FIRE RATED ASSEMBLIES FOR PENETRATIONS.



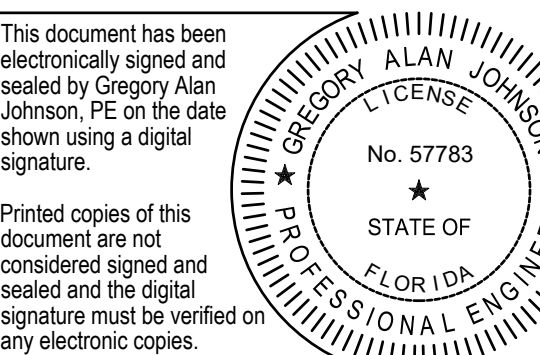
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Client CA - SHA256

GREGORY A. JOHNSON  
PE-57783

ENGINEER OF RECORD

### PROJECT TEAM

DESIGNER

GJ/GP

BIM / DRAWINGS BY:

GP

CHECKED BY:

GJ



**Naples Fire Station #2 Int. Renovation (Ceilings / HVAC)**

**6788-17-2974**  
**100% CD | 06/19/17**

PROJECT NUMBER | STATUS | ISSUE DATE

ELECTRICAL SPECIFICATIONS

SCALE: -

**E-601**  
**SHEET NUMBER**