



# INVITATION FOR BID (IFB)

IFB Number	Scope Number	Closing Date	Closing Time	Return IFB Submittal
PR109609-012-6450	6450	4/21/2020	4:00pm EST	bids@synergynds.com

IFB Reference Information: Insured Property Owner: Property Location Name: Address Line 1: Address Line 2: City:	<b>HVAC Installation</b> <b>City of Mexia</b> <b>Gibbs Memorial Library</b> 305 E. Rusk St. Enter Text Here <b>Mexia</b>	State: Texas    Zip Code: <b>76667</b>
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**DESCRIPTION:** Furnish all required labor, materials and equipment necessary to provide Scope-of-Work at the above described location. Work is being authorized under the elected TML TurnKey Recovery Program<sup>SM</sup> administered by Synergy NDS, Inc. (SynergyNDS) on behalf of the Insured Property Owner, a Member of the Texas Municipal League (TML).

**SUBMITTAL INSTRUCTIONS:** In support of Procurement Guidelines, the IFB Packet includes specifications and terms & conditions associated with the above referenced project information.

1. Bids shall be received no later than the Closing Date & Time indicated above. Bids received after above deadline or that are not submitted in accordance to Submittal Instructions may be rejected without further explanation or contractor notification.
2. Bid shall be completed and submitted using **ONLY** the Contractor Submittal Form (provided at the end of the IFB Packet).
3. Contractor is responsible to validate all Quantities and Units of Measurements specific to the following scope items &/or products. The information and descriptions provided in the IFB are intended for general guidance purposes only. Contractor may not change or alter any material &/or specifications identified in the IFB for submission purposes without prior written/email notification to: [bids@synergynds.com](mailto:bids@synergynds.com).
4. Contractor has the sole responsibility to ensure that all services and material for BID Submittal (whether stated correctly in the IFB or not) satisfactorily meet all required Codes & Standards, OSHA Guidelines and The Americans with Disabilities Act (ADA).
5. Contractor should also consider the approach (if necessary) in which to stock/store material at the jobsite in a safe and secure manner. SynergyNDS will not be responsible for lost or stolen material, supplies or equipment stocked at the jobsite.
6. Bid award will be made based on best overall LUMP SUM project value as determined by SynergyNDS in accordance to market valuation, project demands, critical path scheduling – as well as overall Insured Member’s WorkForce Participation Goals. Contributing factors, in addition to price, may be considered as necessary to help determine bid award based on any additional criteria set forth by the specific TML Insured Member.

## **INVITATION FOR BID (IFB)**

7. SynergyNDS reserves the right to modify the IFB Specifications and Terms & Conditions at any time during the bid solicitation process. Timely notice to all bidders will be given via an electronically distributed Addendum.
8. All registered HUB & HUB Zone Contractors, as well as DBEs are encouraged to participate. Additional Contractor Financial Assistance is available to help support daily HUB/DBE Contractor's operations under the terms and condition of a successful contract award.
9. SynergyNDS is an equal opportunity employer and administers all Contracts & Contractor Agreements in accordance to the requirements of 41 CFR §§ 60-1.4(a), 60-300.5(a) and 60-741.5(a).
10. Contractor is strongly encouraged to schedule a Site Visit of the property as necessary to support the IFB Submittal. All scheduled site visits can be requested at [bids@synergynds.com](mailto:bids@synergynds.com).
11. When a mandatory Pre-BID Meeting is identified and scheduled in a specific IFB, Contractor Attendance is a requirement as part of the Solicitation. Contractors who fail to attend the Pre-BID Meeting will not be eligible to participate in the IFB and subsequent submittal process.
12. Contractor can submit all questions &/or concerns specific to the IFB by email to: [bids@synergynds.com](mailto:bids@synergynds.com).

### **SCOPE-OF-WORK SUMMARY**

Refer to **EXHIBIT A** and any subsequent **ATTACHMENTS** for scope-of-work description that will be included after the IFB Contractor Submittal Form on Page #9.

- \*This IFB is part of a potential Federally Funded Project.
- \*This IFB does not require a Contractor Payment or Performance Bond.
- \*This IFB does not require a Pre-BID Meeting
- \*This IFB supports workforce participation goals.

**\*\* THE REMAINING PART OF THIS PAGE IS INTENTIONALLY LEFT BLANK \*\***

# **INVITATION FOR BID (IFB)**

## **GENERAL TERMS & CONDITIONS**

1. Contractor shall be responsible for field verifying all conditions, dimensions & quantities prior to IFB Submittal and the implementation of this scope of work. Any Exhibits, Plans, Drawing &/or Other Supporting Documents have been included for general reference purposes only.
2. Contractor is responsible to identify and satisfactorily address all applicable regulatory requirements, including but not limited to Codes & Standards, HUD/DBE Participation Goals & Guidelines and ADA/FHA Specifications.
3. Contractor shall indicate in writing and be responsible to submit to SynergyNDS via email distribution to [projects@synergynds.com](mailto:projects@synergynds.com) any request or need for additional 3<sup>rd</sup> Party Assignment as necessary to further identify required codes & standards, scope specifications or public health safety concerns outside of Contractor's professional competence &/or licenses.
4. Contractor is to obtain their own permits and schedule all applicable inspections. Permits can be obtained by contacting the Building Department or other administering entity. Permit Fees are reimbursable direct from SynergyNDS (in addition to contractor's Lump Sum Proposal) if incurred and submitted with proper documentation.
5. Contractor shall prohibit discrimination against staff &/or available workforce based on their status as protected veterans or individuals with disabilities and prohibit discrimination against all individuals based on their race, color, religion, sex, sexual orientation, gender identity or national origin. Moreover, these regulations require that Contractor and its subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, protected veteran status or disability.
6. Contractor is to abide by all applicable OSHA and project safety requirements and standards. Contractor shall require all employees to utilize proper PPE when applicable, including but not limited to: fall protection harnesses, hard hats, safety glasses, safety foot wear, gloves and etc.
7. Contractor is responsible for submitting applicable project and associated contract documents as defined by Architectural Drawings Specifications, Engineering Requirements, Certificates of Insurance, Change Order Requests and any written or documented deviations from approved scopes-of-work or Contract.
8. Contractor may be asked to provide Material Safety Data Sheets (MSDS) to the Industrial Hygienist of record (for the project) for chemical-based products that will be used including, but not limited to, glues, cleaners, solvents, anti-microbial products, sanitizing agents, etc. The Industrial Hygienist of record retains the right to not allow the use of any of the products selected.
9. Contractor shall be responsible under terms of the Agreement for supplying any and all necessary labor, equipment, tools, materials and travel expense to complete the scope of work unless directed otherwise in the IFB. This includes but is not limited to: Rental Equipment, Dumpsters, Storage Containers, Jobsite Trailer, General Conditions, Associated Expenses, Travel Cost and Overhead & Profit which are to be included in the IFB Contractor Lump Sum Proposal.
10. Contractor shall protect all property from new and supplemental damage during the performance of work. This includes, but necessarily limited to: wall finishes, floor finishes, windows, electrical systems, mechanical systems, communication systems, life safety systems, security systems, HVAC control

## **INVITATION FOR BID (IFB)**

systems, plumbing systems, lighting systems, structurally related components, exterior elements, vegetation, property-of-others, and etc.

11. Contractor shall be responsible for any breakage &/or cleaning of unintended damage, debris, coatings, coverings, overspray and residual caulking from the aforementioned property described above. If affected property can't be successfully cleaned &/or restored to pre-existing condition, SynergyNDS will seek reimbursement from Contractor &/or deduct the appropriate replacement cost from outstanding Invoice Payment (Contract Value).
12. Contractor is EXPECTED to maintain a Clean & Safe Work Environment throughout the lifecycle of the awarded scope-of-work. This includes daily clean-up and organization of the Contractor's work area specific to all material waste, debris, tools &/or equipment. Failure to do so (after 3 documented warnings) can result in back charges to Contractor in the amount of \$25.50 hourly rate with a minimum \$150.00 per day clean-up rate (as determined by the SynergyNDS or the Insured Property Owner).
13. Contractor shall be responsible for securing work area(s) from access by non-authorized building occupants, including all persons not directly part of the restoration, repair and/or rebuild efforts. This includes securing work area(s) as identified in the IFB Scope-of-Work &/or under Contractors control.
14. Contractor shall provide and implement a site-specific health and safety plan to include hazard communication and related OSHA requirements to protect workers as well as the general public with access to the work area.
15. If the Contractor determines that deviations, modifications (change order or supplemental costs) from the initial scope-or-work are required, the Contractor shall submit a written request to SynergyNDS for review and approval prior to start of any additional work not otherwise included in initial BID. The written request will contain, at a minimum:
  - a. Reason for deviation or modification
  - b. Description of deviation or modification
  - c. Project cost addition or subtraction for deviation or modification
  - d. Estimated time required for deviation or modification.
16. Contractor is NOT responsible for any conditions or activities the building owner or employees implemented prior to their arrival to the job site. This includes removal of contents, equipment or personnel from the affected areas to the non-affected areas of the building.
17. During the performance of Contractor's scope-of-work, pre-existing damage to the building, structure, system failures or other anomalies may be found. If this occurs, the Contractor has the responsibility to identify, document and report these deficiencies immediately to SynergyNDS by email notification to [projects@synergynnds.com](mailto:projects@synergynnds.com). Verbal notification &/or discussion only with the Onsite Project Manager is encouraged but not binding. Written documentation must be provided in efforts to comply with the required transparent approach.
18. Contractor is responsible to ensure that their employees &/or its sub-contractors comply with the provisions and terms of the IFB and Contract Agreement.

## **INVITATION FOR BID (IFB)**

**PAYMENT:** Project is managed by SynergyNDS, Inc., under the TML Turnkey Recovery Program. Payments will be made directly to the contractor(s) in accordance with described terms & conditions. Qualified contractors may be eligible for an upfront material deposit or progress payments as determined prior to BID AWARD. **Contractor must be registered in the MVP (Managed Vendor Program) whereby required contractor documents must be uploaded to the database. There is annual \$49.95 processing fee as part of the initial contractor vetting and background check.**

**PAYMENT TERMS:** Payments will be made after inspection and approval of work by SynergyNDS, City Building Official &/or Insurance Adjuster. Accurate invoices and required project documentation must be submitted to SynergyNDS for project audit prior to payment. \*Material Deposits &/or Advanced Payments require Contractor to complete online registration in the Managed Vendor Program (MVP). MVP has an annual \$49.99 Registration Fee to be part of the Contractor Direct Repair Program. Material Deposits &/or Advanced Payments will require a 2% Invoice Payment Discount.

**HOLD HARMLESS:** To the fullest extent permitted by law, the Contractor/Vendor shall indemnify, defend, and hold harmless SynergyNDS, Inc & TML, their officers, agents, employees, elected, and appointed officials, Insurance Representatives and volunteers from and against any and all claims, losses or liability, including attorney's fees, arising from injury or death to persons or damage to property occasioned by any act, omission, or failure of the Contractor/Vendor and any of its officers, agents, employees, and volunteers in satisfying the terms required by this contract.

**RIGHT TO ACCEPT, REJECT AND WAIVE DEFECTS:** SynergyNDS &/or Contracting Agent reserves the right to: reject all quotations; waive formalities, technical defects, and minor irregularities; accept the quotation (if any) deemed most advantageous to and in the best interests of Insured Members of TML. Award will be based on price, contractor's daily performance capabilities, availability to provide the specified services when required &/or in accordance to critical path scheduling.

**DAMAGES:** Contractor will be held liable for any damage caused to the building and ancillary structure, and/or injury to the occupants resulting from the execution of the work or from not exercising proper precautionary protective measures. Any cost of repair/replacement resulting from damages shall be at the Contractor's expense.

**WORK-SITE PRACTICES:** Contractor's workers, as well as the various trade contractors entering or leaving the work area, will all attend a site-specific safety meeting as well as daily safety meetings prior the scheduled workday. Contractor's workers entering or leaving the work area will don or remove personal protective equipment and clothing in the staging area outside of each work area. All debris & trash in the work area will be removed and disposed.

**WORKER PERSONAL PROTECTION EQUIPMENT:** The National Institute for Occupational Safety and Health (NIOSH) provides the following interim guidelines and warnings to restoration workers.

- a) Steel toed leather boots should be worn. Tennis shoes or sneakers should *not* be worn because they will transfer contamination and will not prevent punctures, bites, or crush injuries.
- b) Goggles, safety glasses with side shields or full-face shields shall be used when performing restoration related activities that involve demolition, cutting or the use of ANY power tools. Sun/glare-protective

## **INVITATION FOR BID (IFB)**

lenses may be needed in some work settings. The use of goggles or protective eyewear should also be worn during the application of any cleaners, sanitizers or disinfectants.

- c) Soft hat or another protective head cover. Wear an American National Standards Institute (ANSI) rated hardhat if there is any danger of falling debris or electrical hazards.
- d) Hearing protection (when working in an environment with any noise that you must shout over to be heard).
- e) Comfortable, form fitting, light weight clothing including long pants and a long-sleeved shirt or coveralls. Additional PPE, respiratory protection, or clothing may be required when specific exposure hazards are identified or expected at the work site. In some instances, the protective ensemble components (garment, boots and gloves) may need to be impervious to contaminated flood or other site-specific chemical, physical, or biological hazards. In all instances, workers are advised to wash their hands with soap and clean water, especially before eating or drinking. Protect any cuts or abrasions with waterproof gloves and dressings. The use of insect repellent, sun block and lip balm may also be required for some work environments. Drink plenty of bottled water and take frequent rest breaks to avoid overexertion.

**THERMAL STRESSES: HEAT:** Workers are at serious risk for developing heat stress. Excessive exposure to hot environments can cause a variety of heat-related problems, including heat stroke, heat exhaustion, heat cramps, and fainting. To reduce the potential for heat stress, drink a glass of fluid every 15 to 20 minutes and wear loose-fitting clothing. Additionally, incorporate work-rest cycles into work routines and when possible distribute the workload evenly throughout the day.

\*\*\*\*Temporary cooling to the work areas shall only be authorized by the owner's representative based on the actual need for the work being performed. Where the conditions allow for the operation of part or all of the ventilation systems serving the work area then the need for temporary cooling is NOT necessary. The work area should be maintained at conditions that meet OSHA requirements for health and safety.\*\*\*\*

**WORKING IN CONFINED SPACES:** If you are required to work in a boiler, furnace, pipeline, pit, pumping station, septic tank, sewage digester, storage tank, utility vault, well, or similar enclosure, you should be aware of the hazards of working in confined spaces. A confined space has one or more of the following characteristics:

- a) limited openings for entry or exit;
- b) unfavorable natural ventilation; or
- c) Is not designed for continuous worker occupancy.

Toxic gases, a lack of oxygen, or explosive conditions may exist in the confined area, resulting in a potentially deadly atmosphere. Because many toxic gases and vapors cannot be seen or smelled, never trust your senses to determine if safe entry is possible. **Never** enter a confined space unless you have been properly trained, even to rescue a fellow worker! If you need to enter a confined space and do not have the proper training and equipment, contact your local fire department for assistance.

## **INVITATION FOR BID (IFB)**

**CONTRACT IMPLEMENTATION:** Contract will be awarded upon review of all bids and proposals received by SynergyNDS. Initiation of intent-to-contract with Contractor will be engaged upon email notification and signed/returned Contractor Agreement Form. Contract-in-full will occur upon SynergyNDS receipt of all required documentation including but not limited to:

- a) Performance Bond &/or Payment Bond (If Required)
- b) Certificate of General Liability Insurance
- c) Certificate of Auto Insurance
- d) Certificate of Worker's Compensation or Letter of Exemption
- e) Contractor's W-9
- f) State Licenses

Further description of insurance requirements is listed in "Insurance & Licensing Requirements." No material deposits &/or payments will be made to Contractor until all required documentation has been received.

**ASSIGNMENT OF CONTRACT:** Contractor shall not assign the contract or any part thereof to any person, firm, corporation or company unless such assignment is approved in writing by SynergyNDS. Such acceptance shall be at the sole discretion of the SynergyNDS upon request of the Contractor. Upon approved and executed Transfer-of-Contract-Agreement, Contractor will be responsible for the coordination and hand-off of work/trades with the newly Assigned Contractor. Failure to coordinate this work will not relieve original Contractor of their obligations and shall not constitute additional cost as governed by the Lump Sum Contract Award.

**ASSIGNMENT OF CONTRACTOR:** Contractor is responsible for supplying all required Personal Protective Equipment (PPE), including but not limited to the furnishing and appropriate use of: hard hat(s), safety glasses, face shields, ear plugs, gloves, boots, fall protection (where required), breathing protection (where required), tie off ropes/apparatuses/points (where required), fire extinguishers, first aid kits, etc. Contractor is required to be familiar with and follow all OSHA and State of Texas's safety requirements.

- a) Contractor is to hold daily jobsite safety meetings that review the work to be performed, the hazards involved and the methods for reducing and eliminating such hazards, as well as maintain meeting records, - including attendance lists, which shall be kept onsite and available for SynergyNDS review at all times. Contractor shall be solely liable for any and all OSHA violations associated with his/her employees.
- b) SynergyNDS reserves the right to hold weekly progress meetings for which the Subcontractor shall attend. Contractor shall be responsible for daily cleanup of the work performed herein. Failure to cleanup daily after trade will result in cleanup supplementation at Contractor's cost. Twenty-Four (24) hour notice will be given prior to supplementation. Contractor shall be responsible for delivery, loading, unloading, storage, protection, etc. of all work provided herein.

**ENERGY EFFICIENCY:** The Contractor shall comply with all mandatory standards and policies relating to energy efficiency which are contained in the energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub.L. 94-163) for the State in which the work under this contract is performed.

# **INVITATION FOR BID (IFB)**

**PROCUREMENT OF RECOVERED MATERIALS:** In accordance with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, the Contractor shall procure items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition. The Contractor should procure items designated in the EPA Guidelines that contain the highest percentage of recovered materials practical unless the Contractor determines that such items:

- a) are not reasonably available in a reasonable period of time;
- b) fail to meet reasonable performance standards, which shall be determined on the basis of the guidelines of the National Institute of Standards and Technology;

**FAILURE TO COMPLY:** For failure to deliver in accordance with specifications, SynergyNDS may cancel the contract or any part thereof and purchase services on the open market, charging any additional cost to the Contractor. Contractor shall comply with all applicable state, federal and local codes, and pay all permits, licenses and certificates, and other fees as required by the work.

**INSURANCE & LICENSING REQUIREMENTS:** Before starting work, the Contractor will provide SynergyNDS proof of Worker's Compensation and Commercial and Public Liability Insurance. The Contractor must be licensed to do business in the State of Texas and SynergyNDS must be named as an additional insured on general liability insurance certificate. Contractor will need to go to [www.syngerynds.com](http://www.syngerynds.com) and complete the initial registration for the Managed Vendor Program (MVP). Contractor will be required to upload the following information (when applicable) prior to contract award and eligible material deposits.

- a) The Contractor will carry Worker's Compensation Insurance for all employees engaged in work at the site, in accordance with State or Territorial Worker's Compensation Laws.
- b) Commercial and Public Liability with bodily injury and property damage limits will be at a combined single limit of at least \$500,000 to protect the contractor and each subcontractor against claims for injury to or death of one or more persons.
- c) Automobile Liability on owned and non-owned motor vehicles used on the site(s), or in connection with the sites, for a combined single limit for bodily injury and property damages of not less than \$500,000.00 per occurrence.
- d) Builder's Work Insurance limit of at least \$5,000.00 per occurrence and \$10,000.00 aggregate.
- e) Professional Liability \$1,000,000 per occurrence (if applicable).

Contractor will not allow insurance coverage to lapse and will provide SynergyNDS with updated Certificates of Insurance as necessary. All policies must provide that at least thirty (30) days' notice of cancellation will be given to SynergyNDS. All Contractor employees &/or subcontractors are bound by the Insurance Requirement. Contractor is the sole responsible party for all its Employee &/or SubContractor infractions, accidents, damages and all general liability concerns that occur, whether directly or indirectly, as related to Contracted Scope-of-Work.

## **The certificate holder(s) must be noted as:**

Synergy NDS, Inc.  
1400 Sarno Rd  
Melbourne, FL 32935



# **INVITATION FOR BID (IFB)**

## **FEDERAL CONTRACT REQUIREMENTS ONLY (In a Declared Event)**

If stated in the IFB, the Contractor and its subcontractors must follow the provisions, as applicable, as set forth in 2 C.F.R. §200.326 Contract provisions and Appendix II to 2 C.F.R. Part 200, as amended, including but not limited to:

9.29.1 Davis-Bacon Act, as amended (40 U.S.C. §§3141-3148). When required by Federal program legislation, which includes emergency Management Preparedness Grant Program, Homeland Security Grant Program, Nonprofit Security Grant Program, Tribal Homeland Security Grant Program, Port Security Grant Program and Transit Security Grant Program, all prime construction contracts in excess of \$2,000 awarded by non-Federal entities must comply with the Davis-Bacon Act (40 U.S.C. §§3141-3144, and §§3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, “Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction”). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. If applicable, SynergyNDS must place a current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. SynergyNDS must report all suspected or reported violations to the Federal awarding agency. When required by Federal program legislation, which includes emergency Management Preparedness Grant Program, Homeland Security Grant Program, Nonprofit Security Grant Program, Tribal Homeland Security Grant Program, Port Security Grant Program and Transit Security Grant Program (it does not apply to other FEMA grant and cooperative agreement programs, including the Public Assistance Program), the contractors must also comply with the Copeland “Anti-Kickback” Act (40 U.S.C. § 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, “Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States”). As required by the Act, each contractor or subrecipient is prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. SynergyNDS must report all suspected or reported violations to the Federal awarding agency.

1. Contractor. The contractor shall comply with 18 U.S.C. § 874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into this contract.
2. Subcontracts. The Contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as the FEMA may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.
3. Breach. A breach of the contract clauses above may be grounds for termination of the contract, and for debarment as a contractor and subcontractor as provided in 29 C.F.R. § 5.12.

9.29.2 Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708). Where applicable, which includes all FEMA grant and cooperative agreement programs, all contracts awarded by SynergyNDS in excess of

## **INVITATION FOR BID (IFB)**

\$100,000 that involve the employment of mechanics or laborers must comply with 40 U.S.C. §§ 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. §3702 of the Act, each contractor must compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

9.29.3 Rights to Inventions Made Under a Contract or Agreement. If the Federal award meets the definition of “funding agreement” under 37 CFR §401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements,” and any implementing regulations issued by the awarding agency.

9.29.4 Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387). Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. §§7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. §§1251-1387) and will report violations to FEMA and the Regional Office of the Environmental Protection Agency (EPA). The Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended—applies to Contracts and subgrants of amounts in excess of \$150,000.

9.29.5 Debarment and Suspension (Executive Orders 12549 and 12689)—A contract award (see 2 CFR 180.220) must not be made to parties listed on the governmentwide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689(3 CFR part 1989 Comp., p. 235), “Debarment and Suspension.” SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

9.29.6 Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)—Contractors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non- Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

9.29.7 Compliance with Procurement of recovered materials as set forth in 2 CFR § 200.322. CONTRACTOR must comply with section 6002 of the Solid Waste disposal Act, as amended, by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered

## **INVITATION FOR BID (IFB)**

materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

### **OTHER FEDERAL REQUIREMENTS (In a Declared Event)**

9.29.9 Americans with Disabilities Act of 1990, as amended (ADA) – The CONTRACTOR will comply with all the requirements as imposed by the ADA, the regulations of the Federal government issued thereunder, and the assurance by the CONTRACTOR pursuant thereto.

9.29.10 Disadvantaged Business Enterprise (DBE) Policy and Obligation - It is the policy of SynergyNDS that DBE's, as defined in 49 C.F.R. Part 26, as amended, shall have the opportunity to participate in the performance of contracts financed in whole or in part with SYNERGYNDS funds under this Agreement. The DBE requirements of applicable federal and state laws and regulations apply to this Agreement. SynergyNDS and its CONTRACTOR agree to ensure that DBE's have the opportunity to participate in the performance of this Agreement. In this regard, all recipients and contractors shall take all necessary and reasonable steps in accordance with 2 C.F.R. § 200.321( as set forth in detail below), applicable federal and state laws and regulations to ensure that the DBE's have the opportunity to compete for and perform contracts. SynergyNDS and the CONTRACTOR and subcontractors shall not discriminate on the basis of race, color, national origin or sex in the award and performance of contracts, entered pursuant to this Agreement. 2 C.F.R. § 200.321 CONTRACTING WITH SMALL AND MINORITY BUSINESSES, WOMEN'S BUSINESS ENTERPRISES, AND LABOR SURPLUS AREA FIRMS

- a) If the CONTRACTOR, with the funds authorized by this Agreement, seeks to subcontract goods or services, then, in accordance with 2 C.F.R. §200.321, the CONTRACTOR shall take the following affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used whenever possible.
- b) Affirmative steps must include:
  - I. Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
  - II. Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
  - III. Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
  - IV. Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;
  - V. Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

## **INVITATION FOR BID (IFB)**

VI. Requiring the Prime contractor, if subcontractor are to be let, to take the affirmative steps listed in paragraph (1) through (5) of this section.

9.30 The Contractor shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Contractor during the term of the Contract and shall expressly require any subcontractors performing work or providing services pursuant to the Contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the Contract term.

9.31 If attached, the CONTRACTOR is bound by the terms and conditions of the Federally-Funded Subaward and Grant Agreement between SYNERGYNDS and the Texas Division of Emergency Management (Division).

9.32 The CONTRACTOR shall hold the Division and SYNERGYNDS harmless against all claims of whatever nature arising out of the CONTRACTOR's performance of work under this Agreement, to the extent allowed and required by law.

**\*\* THE REMAINING PART OF THIS PAGE IS INTENTIONALLY LEFT BLANK \*\***

# IFB – CONTRACTOR SUBMITTAL FORM

IFB Number	Scope Number	Closing Date	Closing Time	Return IFB Submittal
PR109609-012-6450	6450	4/21/2020	4:00pm EST	bids@synergynds.com

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

Address Line 1: \_\_\_\_\_

Address Line 2: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Contractor Certification:  DBE     WBE/WOSB     HUB     SDVOSB/VOSB

### CONTRACTOR LUMP SUM PROPOSAL:

<b>IFB TITLE</b>	HVAC Installation	<b>PROPOSAL:</b>	\$
<b>IFB TITLE</b>	Click or tap here to enter text.	<b>PROPOSAL:</b>	\$
<b>IFB TITLE</b>	Click or tap here to enter text.	<b>PROPOSAL:</b>	\$
<b>IFB TITLE</b>	Click or tap here to enter text.	<b>PROPOSAL:</b>	\$

Material Deposit |  Required |  Requested | in the amount of \$ \_\_\_\_\_

***I, having the legal authorization to represent the "Company" (the undersigned) have read and understood all previous 1-9 pages and the subsequent Attached Exhibits in accordance to the applicable Terms & Conditions as described in the IFB Packet preceding the attached Contractor Submittal Form:***

**Company Contact Name (Please Print)**

**Company Title (Please Print)**

**Signature**

**Date**

\*Material Deposits &/or Advanced Payments require Contractor to complete online registration in the Managed Vendor Program (MVP). MVP has an annual \$49.99 Registration Fee to be part of the Contractor Direct Repair Program. Material Deposits &/or Advanced Payments will require a 2% Invoice Payment Discount.

# INVITATION FOR BID (IFB)

## PR109609 - Exhibit A

**Project Summary:** The Gibbs Memorial Library suffered extensive damage as a result of a fire which occurred in October of 2019. Demolition work has been completed. Majority of required mitigation work on the inside has been completed. The purpose of the invitation for bid is to solicit bids for the HVAC work required on the project. Scopes of work which are not identified below are not to be included in this bid.

**Building Information:**

Gibbs Memorial Library  
305 E. Rusk St.  
Mexia, TX 76667

**Bidding Information:**

Bids are to be returned to: [bids@synergynds.com](mailto:bids@synergynds.com)

This is a lump sum bid for all identified work:

Bid packets shall include the following:

- 1) Completed IFB Form.
- 2) All proposed materials to be used with manufacture warranty information (Where applicable).
- 3) Proposed timeline for project from beginning of project to completion.

**Work Scope:**

- Contractor shall coordinate all work with SynergyNDS.
- Drawing binder provided is for bid purposes only.
- HVAC Required Work:
  - Contractor shall remove any remaining items and dispose of properly. This may include but not be limited to: air handlers, condensers, duct work, etc.
  - Contractor is expected to work in conjunction with plumber to tie any condensate drain lines into the waste lines.
  - Contractor is expected to work in conjunction with plumber to tie any required gas lines into units.
  - The two Rheem units are to stay and be reused. All coils, fans, and associated equipment shall be thoroughly cleaned.
  - Contractor shall provide pad for 3<sup>rd</sup> unit near children's wing for unit to sit on.
  - Contractor is required to make final electrical connection from disconnect to the unit.

# INVITATION FOR BID (IFB)

## PR109609 - Exhibit A

- Electrician will Provide appropriately sized disconnect and power from panel to the disconnect.
- Install all new air handlers in locations as identified on the drawings.
- Install all required linesets for the units.
- Install all required duct work, registers, returns, and filters.
- Install all required control wires and thermostats in required areas.
  - Thermostats shall be located inside a clear vented lock box with 2 sets of keys provided for each box.
- Install all required bath fans and duct work to vent outside the building.
  - Electrician will make final electrical connection to the fans.
- Perform start up and testing of all system components.
- **Safety Expectations:**
  - Contractor shall abide by all site safety requirements.
  - Contractor shall follow all federal, state, and local guidelines regarding COVID-19. This may include but not limited to:
    - Daily temperature monitoring of workers
    - Maintaining minimum distance between workers.
    - Frequent hygiene care to prevent transmission of germs.
    - Contractor is advised to monitor all outlets for updated information regarding COVID-19.
  - Contractor shall hold a Job Hazard Analysis (JHA) with workers each day prior to starting work for the day. A copy of the JHA shall be provided to the Project Manager each day.
  - Contractor and their workers are expected to utilize appropriate PPE for the task being performed each day.
  - Minimum PPE is to include but not limited to: Hard hat, safety glasses, safety shoes, gloves, etc.
    - Specialty trades may require additional PPE appropriate for the task being performed.
  - Contractor is responsible for installation of any addition signage and/or barriers as indicated for work being performed. (ex. Crane activities will require barriers to be installed for turning radius of the crane, signage for hot work activities, etc.)

### **Reminder Notes:**

1. Contractor is responsible to validate all quantities and units of measurements specific to the scope items above. Information above is intended as a general guidance purpose only.

# INVITATION FOR BID (IFB)

## PR109609 - Exhibit A

2. Contractor has the sole responsibility to ensure that all services and materials for bid submittal meet all codes and standards. This include that all work must be completed in order to meet all codes and standards.
3. Contractor should also consider method to stock/store materials at the jobsite in a safe and secure manner. SynergyNDS will not be responsible for lost or stolen materials, supplies, or equipment from the location.
4. Contractor is strongly encouraged to schedule a site visit of the property as necessary to support the IFB submittal.
5. Contractor can submit request for site visit, all questions &/or concerns to the specific IFB by emailing: [bids@synergynds.com](mailto:bids@synergynds.com)



# REPAIRS TO GIBBS MEMORIAL LIBRARY

305 E. RUSK STREET  
MEXIA, TX 76667

DRAWING LIST	REVISION				
G000	COVER PAGE, SCOPE & CODES	-	M000	MECHANICAL NOTES	
G001	GENERAL NOTES & NARRATIVE	-	M100	MECHANICAL FLOOR PLAN	
G002	TYPICAL TAS/ADA DIAGRAMS	-	M501	MECHANICAL DETAILS	
G101	LIFE SAFETY PLAN	-	M601	MECHANICAL SCHEDULES	
D101	DEMOLITION PLAN	-	P000	PLUMBING NOTES	
S001	STRUCTURAL NOTES	-	P401	PLUMBING PLANS	
S101	STRUCTURAL PLAN	-	P402	PLUMBING RISERS	
S102	STRUCTURAL PLAN	-	P403	ROOF PLAN	
S301	STRUCTURAL SECTIONS	-	P601	PLUMBING NOTES	
S501	STRUCTURAL DETAILS	-	E001	ELECTRICAL GENERAL NOTES & SINGLE LINE	
A101	FLOOR PLAN	-	E002	ELECTRICAL COMCHECK	
A102	ROOF PLAN	-	E101	ELECTRICAL LIGHTING PLAN	
A103	REFLECTED CEILING PLAN	-	E102	ELECTRICAL POWER PLAN	
A201	ELEVATIONS	-			
A301	WALL SECTIONS	-			
A401	ENLARGED PLANS	-			
A402	CASEWORK ELEVATIONS	-			
A501	DETAILS	-			

**PROJECT SCOPE**

- THE INTENT OF THESE DRAWINGS IS FOR THE PERMITTING FOR THE REPAIR OF THE LIBRARY DUE TO A FIRE THAT OCCURRED SEPTEMBER 2019.
- THE DRAWINGS DETAIL THE SCOPE OF ARCHITECTURAL, STRUCTURAL, MECHANICAL ELECTRICAL AND PLUMBING WORK.
- THERE ARE NO ADDITIONS TO THE BUILDING, BUT THE FLOOR PLAN IS RECONFIGURED TO CONFORM WITH CURRENT CODE REQUIREMENTS.
- THE INTERIOR FLOOR, WALL AND CEILING FINISHES WILL BE DEMOLISHED AND REPLACED IN-KIND DUE TO FIRE AND WATER DAMAGE. 1/3 OF THE ROOF AND NORTH WALL IS TO BE DEMOLISHED TO THE FOUNDATION MAINTAINING THE COLUMN BASE PLATES.
- THE MECHANICAL, PLUMBING AND ELECTRICAL FIXTURES WILL BE REPLACED. THE DESIGN AND OR FIXTURE SELECTION IS BEING EXECUTED BY THE GENERAL CONTRACTOR OR SUBCONTRACTORS.

**BUILDING DATA**

ADDRESS: 305 E. RUSK STREET  
MEXIA, TX 76667

PARCEL: 1095, 083-001-010

BUILDING AREA: 8,913 SQFT

STORIES: 1

YEAR BUILT: 1950,1975,1984

USE GROUP: A3

CONST. TYPE: II-A

**DESIGN CODE CRITERIA**

- CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS OF THE FOLLOWING CODES AND AMENDMENTS AS ADOPTED BY THE STATE OF TEXAS AND LIMESTONE COUNTY: 2018 INTERNATIONAL BUILDING CODE, 2018 INTERNATIONAL EXISTING BUILDING CODE, 2012 TEXAS ACCESSIBILITY CODE.
- DESIGN LOAD CRITERIA:
 

ROOF DEAD LOAD	17 PSF
ROOF LIVE LOAD	20 PSF
FLOOR DEAD LOAD	15 PSF
FLOOR LIVE LOAD	40 PSF

**WIND:**

BASIC WIND SPEED - 3 SEC GUST (ULT)	120 MPH
BASIC WIND SPEED - 3 SEC GUST (ASD)	95 MPH
TOPOGRAPHIC FACTOR (Kzt)	1.0
EXPOSURE CATEGORY	"C"
ENCLOSURE CLASSIFICATION	ENCLOSED
G <sub>Cpi</sub>	+/- 0.18
ROOF UPLIFT DESIGN PRESSURE ZONE-3 (ULT)	(-) 50 PSF
ROOF UPLIFT DESIGN PRESSURE ZONE-3 (ASD)	(-) 50 PSF
ROOF UPLIFT DESIGN PRESSURE ZONE-2 (ULT)	(-) 32 PSF
ROOF UPLIFT DESIGN PRESSURE ZONE-2 (ASD)	(-) 33 PSF
ROOF UPLIFT DESIGN PRESSURE ZONE-1 (ULT)	(-) 19 PSF
ROOF UPLIFT DESIGN PRESSURE ZONE-1 (ASD)	(-) 20 PSF

**SEISMIC:**

SEISMIC OCCUPANCY CATEGORY	"III"
SEISMIC IMPORTANCE FACTOR (I <sub>e</sub> )	1.25
REDUNDANCY FACTOR, RHO (N-S)	1.0
REDUNDANCY FACTOR, RHO (E-W)	1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	
S <sub>s</sub> = 0.061g	
S <sub>1</sub> = 0.032g	
SITE CLASS	"D"
SPECTRAL RESPONSE COEFFICIENTS:	
S <sub>ds</sub> = 0.065g	
S <sub>d1</sub> = 0.051g	
SEISMIC DESIGN CATEGORY	"B"
RESPONSE MODIFICATION FACTOR, R	3.25
SEISMIC FORCE RESISTANCE SYSTEM:	
STEEL ORDINARY CONCENTRICALLY BRACED FRAMES	
ANALYSIS PROCEDURE:	
EQUIVALENT LATERAL FORCE	
SEISMIC RESPONSE COEFFICIENT (C <sub>s</sub> )	0.027



**1 VICINITY PLAN**  
SCALE: NTS



**2 SCHEMATIC SITE PLAN**  
SCALE: NTS

- ALL CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC); NEW STRUCTURAL ITEMS AND REPAIRS TO EXISTING DAMAGED ITEMS SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC); NEW PLUMBING ITEMS AND REPAIRS TO EXISTING PLUMBING ITEMS SHALL CONFORM TO THE 2018 INTERNATIONAL PLUMBING CODE; OTHER THAN STRUCTURAL AND PLUMBING ITEMS, THE BUILDING SHALL BE REPAIRED USING THE SAME LIKE AND KIND MATERIALS AS WERE PRESENT BEFORE THE FIRE. AFTER CONSTRUCTION IS COMPLETE, THE BUILDING WILL BE NO LESS COMPLIANT WITH THE CURRENTLY ADOPTED CODES THAN IT WAS PRIOR TO THE FIRE.
- ALL EXTERIOR WALL COVERINGS AND SOFFITS SHALL BE CAPABLE OF RESISTING THE DESIGN PRESSURES FOR WALLS IN ACCORDANCE WITH IBC 2018 CHAPTER 16 USING THE MINIMUM DESIGN PRESSURES SHOWN ABOVE. MANUFACTURED SOFFITS SHALL BE APPROVED, LABELED AND INSTALLED IN COMPLIANCE WITH IBC 2018 SECTION 1710.9
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND MEASUREMENTS IN THE FIELD AND LAYING OUT ALL WORK PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR HIS CONSIDERATION AND CLARIFICATION BEFORE PROCEEDING WITH THE WORK. IN NO CASE SHALL SUCH DIFFERENCES CONSTITUTE THE BASIS FOR EXTRA CHARGES OF COMPENSATION. DO NOT SCALE DRAWINGS. USE DIMENSIONAL NOTATIONS ONLY.
- THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE PERFORMANCE OF THE WORK OF THE GENERAL CONTRACTOR NOR ANY OTHER SUBCONTRACTORS, NOR SHALL GUARANTEE THE PERFORMANCE OF THEIR CONTRACT.
- PERMITS, FEES AND TAXES: THE CONTRACTOR SHALL OBTAIN AND PAY ALL PERMITS, FEES LICENSES AND DEPOSITS AND BE LIABLE FOR ALL STATE AND FEDERAL SALES TAXES, AND ALL OBLIGATIONS UNDER THE FEDERAL SECURITY ACT. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN CERTIFICATES OF COMPLIANCE, APPROVAL OR ACCEPTANCE FROM ALL AUTHORITIES HAVING JURISDICTION OVER THE WORK AND DELIVER THESE CERTIFICATES TO THE OWNER ALONG WITH OFFICIAL RECEIPTS FOR THE SAME.
- ALL WORK SPECIFIED HEREIN SHALL INCLUDE MATERIAL, LABOR AND INSTALLATION. ALL WORKMANSHIP SHALL BE FIRST QUALITY SUBJECT TO THE ARCHITECT AND OWNERS APPROVAL. THE ARCHITECT RESERVES THE RIGHT TO CLARIFY THE WORK IF NECESSARY BY ADDITIONAL DETAILED DRAWINGS OR WRITTEN DESCRIPTION.
- COOPERATION: THE GENERAL CONTRACTOR AND ALL OTHER CONTRACTORS SHALL COORDINATE WITH ALL ADJACENT WORK AND COOPERATE WITH ALL OTHER TRADES AS TO FACILITATE PROCESS OF THE WORK. EACH TRADE SHALL AFFORD ALL OTHER TRADES EVERY REASONABLE OPPORTUNITY FOR THE INSTALLATION OF THEIR WORK AND STORAGE OF THEIR MATERIALS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER COORDINATION OF THE WORK.
- TEMPORARY LIGHT, HEAT AND POWER: THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN AND PAY FOR ALL TEMPORARY UTILITIES THAT MAY BE NEEDED FOR HIS WORK. IF THE OWNER ALLOWS THE CONTRACTOR TO USE THE EXISTING FACILITIES, THE CONTRACTOR SHALL REIMBURSE THE OWNER FOR SUCH USE.
- MEASUREMENTS: BEFORE ORDERING ANY MATERIAL, OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY AT THE PROJECT AREA ALL MEASUREMENTS AND SHALL BE RESPONSIBLE FOR THEIR CORRECTNESS. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND THE MEASUREMENTS INDICATED IN THE DRAWINGS. ANY DIFFERENCES FOUND SHALL BE SUBMITTED TO THE OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- SITE MAINTENANCE AND CLEANING: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE JOB SITE IN A CLEAN ORDERLY MANNER. ALL DEBRIS AND RUBBISH SHALL BE REMOVED AS RAPIDLY AS IT ACCUMULATES. CONTRACTOR SHALL PROVIDE PROPER TRASH RECEPTACLES FOR FOOD AND OTHER RUBBISH. NO FOOD WASTE ON THE FLOORS OF THE JOB SITE WILL BE TOLERATED. THE WORK AREA SHALL BE KEPT TIDY AT ALL TIMES.

### SYMBOLS

**GRAPHIC SCALE**  
1' 0" 2' 4" 8"

**GENERAL SYMBOLS**

& AND  
@ AT  
CL CENTER LINE  
# NUMBER  
Ø DIAMETER  
% PERCENT  
= EQUAL TO  
> GREATER THAN  
< LESS THAN  
≥ GREATER THAN OR EQUAL TO  
≤ LESS THAN OR EQUAL TO  
PL PROPERTY LINE  
PER PER  
/ STATION EQUIPMENT  
BREAKLINE  
ELEVATION POINT  
ALIGN

**ABBREVIATIONS**

ADDL ADDITIONAL  
A. BETWEEN  
DBL DOUBLE  
EA EACH  
E EXISTING  
IN INFORMATION  
KSI KIPS PER INCH  
MAX MAXIMUM  
MIN MINIMUM  
NTS NOT TO SCALE  
O.C. ON CENTER  
PL PLATE  
PSI POUNDS PER SQUARE INCH  
PSF POUNDS PER SQUARE FOOT  
PT PRESERVATIVE (PRESSURE) TREATED  
R&R REMOVE AND REPLACE  
REQD REQUIRED  
STL STEEL  
TA TRIBUTARY AREA  
TS TUBE STEEL  
UNO UNLESS NOTED OTHERWISE  
W/ WITH  
WS WOOD SCREW

**Project North**  
NORTH ARROW

REFERENCE BOUNDARY

DETAIL DESIGNATION (NUMBER)  
DRAWING NUMBER OF THE SHEET WHERE THE DETAIL IS SHOWN

DETAIL REFERENCE

DETAIL DESIGNATION (NUMBER)  
DRAWING NUMBER OF THE SHEET WHERE THE DETAIL IS SHOWN

1ST FLOOR PLAN  
SCALE: 1/8"=1'-0"

PLAN/DETAIL NAME  
SCALE

PLAN/DETAIL IDENTIFIER

SECTION DESIGNATION (LETTER)  
DRAWING NUMBER OF THE SHEET WHERE THE DETAIL IS SHOWN

SECTION IDENTIFIER

ELEVATION ORIENTATION  
DRAWING NUMBER OF THE SHEET WHERE THE ELEVATION IS SHOWN

EXTERIOR ELEVATION IDENTIFIER

REVISION IDENTIFIER

ELEVATION IDENTIFICATION  
T.O.  
0'-0"

1431 Greenway Drive  
Suite 900  
Irving, Texas 75038  
Tel: (866) 299-3370  
Cert. of Auth. No. 18590

CONSULTANTS:

DATE	ISSUE
2/14/2019	PHASE A
3/10/2019	PERMIT SET

CLIENT:

**SYNERGY  
NDS INC.**

1400 SARNO ROAD  
MELBOURNE, FL 32935

PROJECT:

**GIBBS MEMORIAL  
LIBRARY**

305 E. RUSK STREET  
MEXIA, TX 76667

ISSUE SET:

**PERMIT SET**

SEAL:

3/30/2020

DRAWING TITLE:

**COVER PAGE,  
SCOPE & CODES**

DRAWN BY: GGC | REVIEWED BY: CJP  
JOB #: 100024944  
SCALE: AS NOTED  
DATE: 3/30/2020

PAGE:

**G000**

# GENERAL NOTES

## STRUCTURAL NOTES

### CONCRETE

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318 LATEST EDITION, AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS." ACI 301, LATEST EDITION.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- ALL CONCRETE SHALL HAVE A SLUMP OF 4" PLUS OR MINUS 1", AND HAVE 2% TO 4% AIR ENTRAINMENT. CONCRETE PLACED WITH A PUMP SHALL HAVE A SLUMP OF 5" PLUS OR MINUS 1". JOBSITE WATER SHALL NOT BE ADDED.
- RETAIN TWO CONCRETE TEST CYLINDERS FOR LABORATORY TESTING. HAVE LABORATORY TEST THE CYLINDERS TO PROVIDE 7 DAY AND 28 DAY COMPRESSIVE STRENGTH RESULTS TO THE ENGINEER OF RECORD.
- PLACING CONCRETE: BEFORE PLACING ANY CONCRETE IN FORMWORK, THOROUGHLY CLEAN AND WASH-OUT FORMS WITH WATER. THOROUGHLY WET WOOD FORMS IMMEDIATELY BEFORE PLACING CONCRETE WHERE FORM COATINGS ARE NOT USED. CONVEY CONCRETE FROM MIXER TO FINAL POSITION BY METHODS WHICH WILL PREVENT SEPARATION OR LOSS OF MATERIALS. MAXIMUM HEIGHT OF CONCRETE FREE FALL IS 4 FT. DEPOSIT CONCRETE IN CONTINUOUS OPERATION UNTIL SECTION BEING PLACED HAS BEEN COMPLETED.
- ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A - 615 GRADE 60.
- ALL REINFORCING DETAILS SHALL CONFORM TO "GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS" ACI 315R-18.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, ANCHOR BOLTS, INSERTS, ETC. AS REQ'D BY OTHER TRADES BEFORE CONCRETE IS PLACED.
- CONTRACTOR SHALL PROVIDE SPACERS, CHAIRS, BOLSTERS, ETC. NECESSARY TO SUPPORT REINFORCING STEEL.
- CONTRACTOR SHALL PROVIDE 3/4" INCH CHAMFER ON ALL EXPOSED CORNERS OF SLABS AND WALLS UNLESS NOTED OTHERWISE.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:  
CONCRETE WALLS (#4 OR #5 REBAR EXPOSED TO WEATHER) 1 1/2"  
CONCRETE PLACED DIRECTLY ON EARTH 3"
- REINFORCEMENT SPLICES SHALL NOT BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. MINIMUM LAP SPLICES ON ALL REINFORCING BAR SPLICES SHALL BE CLASS B PER ACI 318.
- FORMWORK AND SHORING
  - DESIGN, ERECT, SHORE, BRACE, AND MAINTAIN FORMWORK, ACCORDING TO ACI 301, TO SUPPORT VERTICAL, LATERAL, STATIC, AND DYNAMIC LOADS, AND CONSTRUCTION LOADS THAT MIGHT BE APPLIED, UNTIL COMPLETE STRUCTURE CAN SUPPORT SUCH LOADS.
  - CONSTRUCT FORMWORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION INDICATED, WITHIN TOLERANCE LIMITS OF ACI 117.
  - CONSTRUCT FORMS TIGHT ENOUGH TO PREVENT LOSS OF CONCRETE MORTAR. RETIGHTEN FORMS AND BRACING BEFORE PLACING CONCRETE, AS REQUIRED, TO PREVENT MORTAR LEAKS AND MAINTAIN PROPER ALIGNMENT.
  - COAT CONTACT SURFACES OF FORMS WITH FORM-RELEASE AGENT, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, BEFORE PLACING REINFORCEMENT.
- EPOXY ADHESIVE FOR BONDING TO EXISTING CONCRETE SHALL BE SIMPSON STRONG-TIE SET-XP ADHESIVE MANUFACTURED AND INSTALLED PER ICC SER-2508
- EPOXY ADHESIVE FOR SETTING THREADED ANCHOR RODS INTO EXISTING CONCRETE SHALL BE SIMPSON STRONG-TIE SET-XP ADHESIVE MANUFACTURED AND INSTALLED PER ICC SER-2508

### LIGHT GAGE STEEL FRAMING

- THE FOLLOWING DOCUMENTS FORM A PART OF THESE NOTES TO THE EXTENT INDICATED.
  - SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE (AISI).
  - SPECIFICATIONS FOR METAL LATHING AND FURRING, METAL LATH/STEEL FRAMING ASSOCIATION.
- PERFORMANCE REQUIREMENTS: AISI SPECIFICATIONS AND STANDARDS: UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED, COMPLY WITH AISI S100, AISI S200 AISI S230 AND AWS D1.3.
- ACCEPTABLE MANUFACTURERS:
  - CEMCO; CALIFORNIA EXPANDED METAL PRODUCTS CO.
  - CONSOLIDATED FABRICATORS CORP.; BUILDING PRODUCTS DIVISION.
  - DESIGN SHAPES IN STEEL.
  - FORMETAL CO. INC.
- MATERIALS
  - STEEL SHEET: ASTM A 1003/A 1003M, TYPE H, METALLIC COATED, G60
  - STEEL STUDS: GALVANIZED C-SHAPED, WITH FLANGE WIDTH OF NOT LESS THAN 1.625 INCHES, STEEL THICKNESSES AND OF DEPTHS INDICATED.
  - STEEL JOISTS: GALVANIZED C-SHAPED, WITH FLANGE WIDTH OF NOT LESS THAN 1.625 INCHES, MINIMUM LIP DIMENSION OF 0.625 INCHES, MINIMUM UNCOATED STEEL DESIGN THICKNESSES AND OF DEPTHS INDICATED.
  - STEEL TRACK: GALVANIZED U-SHAPED, MINIMUM UNCOATED METAL THICKNESS SAME AS STUDS OR JOISTS USED WITH TRACK, WITH FLANGE WIDTHS OF 1.25 INCHES FOR STUDS AND 1-1/2 INCHES FOR JOISTS, OF WEB DEPTHS INDICATED.
- ACCESSORIES
  - FABRICATE FROM THE SAME MATERIAL AND FINISH USED FOR FRAMING MEMBERS, OF MANUFACTURER'S STANDARD THICKNESS AND CONFIGURATION, UNLESS OTHERWISE INDICATED.
  - EXPANSION ANCHORS: FABRICATED FROM CORROSION-RESISTANT MATERIALS, WITH ALLOWABLE LOAD OR STRENGTH DESIGN CAPACITIES, CALCULATED ACCORDING TO ICC-ES AC193 AND ACI 318, GREATER THAN OR EQUAL TO THE DESIGN LOAD, AS DETERMINED BY TESTING ACCORDING TO ASTM E 488 CONDUCTED BY A QUALIFIED TESTING AGENCY.
  - MECHANICAL FASTENERS: ASTM C 1513, SELF-DRILLING, SELF-TAPPING, STEEL DRILL SCREWS, WITH CORROSION-RESISTANT COATING.
  - GALVANIZING REPAIR PAINT: ASTM A 780.
- EXECUTION
  - INSTALL FRAMING AND ACCESSORIES LEVEL, PLUMB, SQUARE, AND TRUE TO LINE, AND SECURELY FASTENED, ACCORDING TO AISI S200 AND TO MANUFACTURER'S WRITTEN INSTRUCTIONS UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED.
  - CUT FRAMING MEMBERS BY SAWING OR SHEARING; DO NOT TORCH CUT. FASTEN FRAMING MEMBERS BY WELDING OR SCREW FASTENING.
  - INSTALL TEMPORARY BRACING AND SUPPORTS TO SECURE FRAMING AND SUPPORT LOADS. MAINTAIN BRACES AND SUPPORTS IN PLACE UNTIL SUPPORTING STRUCTURE HAS BEEN COMPLETED AND PERMANENT CONNECTIONS ARE SECURED.
  - FASTEN HOLE-REINFORCING PLATE OVER WEB PENETRATIONS THAT EXCEED SIZE OF MANUFACTURER'S APPROVED OR STANDARD PUNCHED OPENINGS.
  - ERECTION TOLERANCES: INSTALL COLD-FORMED METAL FRAMING WITH A MAXIMUM VARIATION OF 1/8 INCH IN 10 FEET AND WITH INDIVIDUAL FRAMING MEMBERS NO MORE THAN PLUS OR MINUS 1/8 INCH FROM PLAN LOCATION. CUMULATIVE ERROR SHALL NOT EXCEED MINIMUM FASTENING REQUIREMENTS OF SHEATHING OR OTHER FINISHING MATERIALS.

- STUDS: INSTALL CONTINUOUS TOP AND BOTTOM TRACKS SECURELY ANCHORED AT CORNERS AND ENDS. SQUARELY SEAT STUDS AGAINST WEBS OF TOP AND BOTTOM TRACKS. SPACE STUDS AS INDICATED; SET PLUMB, ALIGN, AND FASTEN BOTH FLANGES OF STUDS TO TOP AND BOTTOM TRACKS.
- INSTALL AND FASTEN HORIZONTAL BRIDGING IN STUD SYSTEM, SPACED IN ROWS NOT MORE THAN 48 INCHES APART.
- INSTALL MISCELLANEOUS FRAMING AND CONNECTIONS TO PROVIDE A COMPLETE AND STABLE WALL-FRAMING SYSTEM.
- INSTALL MISCELLANEOUS STUD FRAMING AND CONNECTIONS, INCLUDING WEB STIFFENERS, CLOSURE PIECES, CLIP ANGLES, CONTINUOUS ANGLES, HOLD-DOWN ANGLES, ANCHORS, AND FASTENERS.

# NARRATIVE

## PHASE A

### ROOFING

- REFER TO SHEET A102 FOR ROOFING INFORMATION

### STRUCTURAL REPAIRS FOR THE 1984 ADDITION

- PROTECT & REPAIR THE EAST AND SOUTH EXTERIOR WALLS, REMOVE AND REPLACE THE NORTH EXTERIOR MASONRY WALL.
- REMOVE THE CONCRETE MASONRY (CMU) BACKUP WALLS ALONG THE REAR (NORTH) WALL OF THE ADDITION.
- REMOVE THE EXISTING STEEL JOISTS THROUGHOUT THE 1984 PORTION.
- REMOVE THE STEEL BEAM FROM THE REAR (NORTH) WALL OF THE ADDITION.
  - CUT THE EXISTING BEAM WITHIN APPROXIMATELY 3 FEET OF THE RIGHT (EAST) MOST INTERIOR COLUMN AND BRACE THE BEAM.
- CUT THE REAR INTERIOR STRUCTURAL STEEL COLUMNS (3 TOTAL) APPROXIMATELY 12 INCHES ABOVE THE FINISHED FLOOR SLAB. CLEAN, PRIME, AND PAINT THE COLUMN STUBS WITH RUST INHIBITING PAINT.
- INSTALL THREE (3) NEW, HOT DIP GALVANIZED, 3X3X1/4 HSS STEEL COLUMNS.
  - COLUMNS TO HAVE PL4.5X4.5X1, SHOP WELDED (3/16" FILLET WELDS 3 INCHES LONG EACH SIDE) STEEL BASEPLATES. PLACE COLUMNS WITH PLATED END ATOP REMAINING COLUMN STUBS AND WELD PLATE TO COLUMN STUB WITH A (3/16" FILLED WELD 3 INCHES LONG EACH SIDE).
  - USE SHIMS AS NECESSARY BETWEEN THE PLATES TO MAKE THE NEW COLUMNS PLUMB.
  - THE NEW COLUMNS SHALL HAVE PL6X4X1", SHOP WELDED (3/16" FILLET WELDS 3 INCHES LONG EACH SIDE) STEEL TOP PLATES. PLATE TO HAVE PUNCHED HOLES TO RECEIVE (4) 3/4" DIAMETER BOLTS.
  - THE TWO INTERIOR COLUMNS SHALL HAVE PL8X4X1/2 PLATES SHOP WELDED (3/16" FILLET WELDS 8 INCHES LONG EACH SIDE). PLATE TO HAVE (3) PUNCH HOLES TO RECEIVE 3/4" DIAMETER BOLTS.
  - ENSURE THERE ARE DRAINAGE HOLES TO ALLOW FULL COATING DURING HOT DIP GALVANIZATION.
- PLACE THE NEW W12X16 STEEL BEAM (SHOP PRIMED AND PAINTED) ATOP THE NEW STEEL COLUMNS. W12X16 STEEL BEAM TO HAVE PUNCHED HOLES THROUGH BOTTOM FLANGE TO RECEIVE (4) 3/4" BOLTS AT EACH BEARING LOCATION.
  - SINGLE BEAM WITH NO SPLICES.
  - THE BEAM SHALL HAVE SHOP WELDED (2) 1/2" THICK WEB STIFFENER PLATES AT EACH BEARING LOCATION.
  - FIELD WELD (3/16" BEVEL WELDS MINIMUM 4 INCHES LONG EACH SIDE) THE BOTTOM FLANGE OF THE BEAM TO THE TOP PLATES OF THE NEW COLUMNS.
  - COLUMNS TO HAVE THREADED ROD "X" BRACING GUSSETS INSTALLED WHERE THE WEST BAY OF THE FRAME WILL OCCUR.
  - FIELD WELD THE RIGHT (EAST) END OF THE NEW BEAM TO THE EXISTING BEAM WITH WELDED SPLICE PLATES ON THE WEBS, TOP FLANGES, AND BOTTOM FLANGES.
- INSTALL NEW W12X16 STEEL BEAM BETWEEN MIDDLE BAY OF STEEL FRAME ABOVE WINDOW LOCATED IN THE NORTH WALL OF THE 1984 PORTION.
  - BEAM TO HAVE (3) PUNCHED HOLES ON EACH END TO RECEIVE 3/4" DIAMETER BOLTS
  - FIELD WELD (3/16" FILET WELDS MINIMUM 4 INCHES LONG EACH SIDE) THE WEB OF THE BEAM TO THE TABBED PLATE.
- INSTALL NEW (2) 3/4" THREADED ROD BRACES ATTACHED TO GUSSETS WITH CLEVIS. HAVE TURNBUCKLES INSTALLED FOR EACH CABLE AND TIGHTEN AS NECESSARY.
- PLACE THE NEW 28K07 STEEL JOISTS, SPACED 5 FEET ON CENTER AND ORIENTED TO SPAN BETWEEN THE EXISTING STEEL BEAM AT THE FRONT OF THE 1984 ADDITION AND THE NEW STEEL BEAM AT THE REAR OF THE ADDITION.
  - THE STEEL JOISTS ARE TO BE FIELD WELDED TO THE SUPPORTING BEAMS WITH 1/4"X3" FILLET WELDS ON EACH SIDE OF EACH JOIST SEAT.
- INSTALL NEW 1.5F-22 GALVANIZED STEEL METAL DECKING ATOP THE NEW STEEL ROOF JOISTS.
  - EACH SECTION OF NEW METAL DECK SHALL SPAN ACROSS AT LEAST 4 JOISTS (3 SPANS).
  - SPOT WELD THE METAL DECK TO THE STEEL JOISTS WITH A 4/36 PATTERN
  - USE AT LEAST 2 STITCH SCREWS IN THE SIDE LAPS OF THE METAL DECKING, BETWEEN JOIST BEARINGS.
- PLACE GALVANIZED (G-90), 24-GAUGE SHEET METAL PAN FLASHINGS BETWEEN THE STEEL COLUMNS.
  - THERE SHALL BE END DAMS ON THE PAN FLASHINGS THAT ARE HELD 3/8 INCH FROM THE STEEL COLUMNS TO ALLOW A BACKER ROD AND SEALANT JOINT (USING DOWSIL™ 791 SILICONE SEALANT).
  - THE PAN FLASHINGS SHALL HAVE A BACK DAM THAT IS AT LEAST 1 INCH TALL AND IS SEALED TO THE END DAMS.
  - THE SILL PAN FLASHING SHALL BE TURNED DOWN AT THE EDGE OF THE FINISHED FLOOR TO DIRECT WATER TOWARD THE BRICK SHELF. CONTRACTOR TO ENSURE THAT THERE ARE WEEP VENTS IN THE BRICK VENEER SPACED NO MORE THAN 24" O.C. AND THAT WATER CAN FREELY DRAIN FROM THE BRICK VENEER ONTO THE FINISHED GRADE AROUND THE BUILDING.
  - AT THE STEEL COLUMNS, WRAP THE BOTTOM 2 INCHES OF THE COLUMN WITH SHEET METAL, SEAL THIS FLASHING TO THE PAN. HOLD THE COLUMN FLASHING 3/8" FROM THE COLUMN TO ALLOW FOR A BACKER ROD AND SEALANT JOINT ALL AROUND (DOWSIL™ 791 SILICONE SEALANT).
  - THE SILL PAN SHALL BE CONTINUOUS BENEATH NEW STOREFRONT GLASS AND EXTERIOR DOOR SYSTEMS, BUT THE BACK DAM HEIGHT MAY BE REDUCED (NOT ELIMINATED) AS NECESSARY AT THE DOORS AND WINDOWS. THE ALTERED HEIGHT OF THE BACK DAM CAN BE DETERMINED WHEN THE DOOR AND WINDOW SUBMITTALS ARE REVIEWED.
  - WHERE REBAR DOWELS PENETRATE THE SHEET METAL PAN, SEAL THE PAN TO THE DOWELS WITH A 1" FILLET BEAD OF SEALANT (DOWSIL™ 791 SILICONE SEALANT).
- INSTALL NEW 4" CONCRETE MASONRY UNIT (CMU) INFILL WALLS BETWEEN THE STEEL COLUMNS, EXCEPT WHERE WINDOW WILL BE INSTALLED.
  - PLACE WEEP VENTS IN THE HEAD JOINTS ON THE EXTERIOR FACE OF THE CMU WALL. SPACE WEEPS 24" O.C. MAX.
  - ANCHOR THE CMU WALLS TO THE STEEL COLUMNS WITH HOHMANN & BARNARD 359-C WELD-ON TIES AND 301W COLUMN WEB TIES.
    - THE 359-C TIES SHOULD BE SHOP WELDED TO THE COLUMN BEFORE THE COLUMN IS HOT DIPPED.
    - THE 301 TIES SHOULD BE LOCATED IN EVERY COURSE OF THE CMU WALL WHERE THE WALL ABUTS THE STEEL COLUMNS.
  - COAT THE INTERIOR FACE OF THE CMU WALL WITH A FLUID APPLIED VAPOR BARRIER (TYVEK® FLUID APPLIED WB+™ BY DUPONT OR EQUIVALENT).

# NARRATIVE (CONT.)

## PHASE B

### EXTERIOR WALLS

THE REPAIRS TO THE EXTERIOR WALLS FOR THE GIBBS LIBRARY WILL INCLUDE THE FOLLOWING:

- THE EXISTING BRICK VENEER AND STUCCO WILL BE SALVAGED WHEN POSSIBLE. ANY DAMAGED BRICK VENEER OR SIDING WILL BE REPLACED WITH A SIMILAR MATERIAL OF THE SAME LIKE, KIND, AND QUALITY. UNDAAGED BRICK VENEER AND STUCCO WILL REMAIN IN PLACE.
    - EXTERIOR MOUNTED ELECTRICAL CONDUIT WILL BE REMOVED AND REPLACED IN THE FIRE-DAMAGED AREA (1984 ADDITION)
    - IF THE EXISTING BRICK VENEER IS REMOVED FOR REASONS OTHER THAN DAMAGE, UNDAAGED BRICK MAY BE REINSTALLED OR BE REPLACED WITH SIMILAR LIKE AND KIND MATERIALS.
  - DAMAGED WINDOWS AND/OR WINDOW INSULATED GLAZING WILL BE REPLACED WITH SIMILAR LIKE KIND AND QUALITY.
  - REPLACE ALL FIRE DAMAGED EXTERIOR DOORS WITH THE SAME SIZE AND TYPE OF EXTERIOR DOORS.
    - NEW FASCIA AND TRIM WILL BE INSTALLED THROUGHOUT THE BUILDING.
      - NEW FASCIA AND TRIM WILL MATCH THE ORIGINAL FASCIA AND TRIM AND THE OTHER BUILDINGS ON THE PROPERTY.
      - INSTALL PRE-FINISHED (TO MATCH SIDING AND TO BE APPROVED BY OWNER) HEAD FLASHINGS ABOVE ALL REPLACED DOORS, WINDOWS, AND OTHER WALL OPENINGS (NOT INCLUDING MECHANICAL, ELECTRICAL, PLUMBING PENETRATIONS).
        - NOTE THAT SELECTIVE REMOVAL OF EXTERIOR FINISH MATERIALS WILL BE REQUIRED AT ALL REPLACED DOORS AND WINDOWS TO ENSURE THAT THE NEW FLASHINGS AT NEW DOORS AND WINDOWS CAN BE PROPERLY INTEGRATED INTO THE WEATHER BARRIER OF THE EXISTING WALLS.
    - CLEAN, PRIME, AND PAINT ALL SIDING, TRIM, AND WALKWAYS WITH COLORS SELECTED BY OWNER
      - ALL SUBSTRATES SHALL BE CLEAN AND DRY AND SHALL BE PREPARED IN ACCORDANCE WITH PAINT MANUFACTURER'S INSTRUCTIONS
  - ADD/REPLACE EXTERIOR WALL INSULATION PER REQUIREMENTS TO BE DETERMINED.
- ### INTERIOR FINISH
- REMOVE ALL DAMAGED INTERIOR DRYWALL, CEILING TILES, AND OTHER FINISH MATERIALS INSIDE OF THE ENTIRE BUILDING, AND REPLACE THE REMOVED MATERIALS WITH NEW MATERIALS OF SIMILAR LIKE AND KIND TO THE MATERIALS THAT WERE DAMAGED AND REMOVED.
  - ALL NON-STRUCTURAL LOAD BEARING WALLS SHALL BE REMOVED AND REPLACED WITH LIKE MATERIALS. THE LOCATION OF SOME OF THE INTERIOR WALLS WILL BE ALTERED TO ADHERE TO TAS STANDARDS.
    - NEW INTERIOR WALL FRAMING TO BE LIGHT GAGE, PUNCHED, 3 1/2", 20 GAGE NON-BEARING STEEL STUD FRAMING WITH STUDS SPACED 16" O.C. MAX.
    - USE A DEEP DEFLECTION TRACK ATTACHED TO THE BOTTOM OF THE ROOF RAFTER/JOISTS TO SECURE THE TOP OF THE WALLS. DEFLECTION TRACK TO BE 18 GAUGE METAL WITH 3" LEG AND 1" GAP.
    - AT THE BOTTOM OF THE STUD WALLS, SECURE THE BOTTOM TRACK TO THE CONCRETE FLOOR WITH 1/4" TAPCON SCREWS SPACED 48" O.C. MAX.
  - REPLACE DAMAGED FLOORING SAME LIKE, KIND, AND THICKNESS AS EXISTING.

### MECHANICAL

- REPLACE ALL MECHANICAL EQUIPMENT INSIDE THE BUILDING. THIS WILL INCLUDE ALL DUCTING, AIR VENTS AND RETURN GRILLS, AND AIR HANDLING UNITS. ALL EXTERIOR CONDENSER UNITS EXCEPT FOR THE TWO RHEEM ARE TO BE REPLACED. NEW REFRIGERANT LINES WILL BE INSTALLED.

### ELECTRICAL

- REPLACE ALL DAMAGED ELECTRICAL OUTLETS, SWITCHES, AND WIRING. THE FOLLOWING WILL BE INCLUDED BASED ON RIMKUS'S VISUAL INSPECTION:
  - REPLACE ALL ELECTRICAL OUTLETS, SWITCHES, AND WIRING BACK TO THE NEXT UNDAAGED JUNCTION BOX OR BREAKER, WHICHEVER IS CLOSER.
  - REPLACED ALL DAMAGED INTERIOR FIXTURES THROUGHOUT THE BUILDING.
  - REPLACE ALL DAMAGED EXTERIOR FIXTURES AT THE 1984 ADDITION OF THE BUILDING.

### PLUMBING

- REPLACE ALL DAMAGED PLUMBING AND PLUMBING FIXTURES INSIDE OF THE BUILDING. THE FOLLOWING WILL BE INCLUDED BASED ON RIMKUS'S VISUAL INSPECTION:
  - PLUMBING IN THE BATHROOMS, LOCATED IN THE ORIGINAL BUILDING, SHALL BE ALTERED AND RETROFITTED TO ADHERE TO ADA STANDARDS.
  - NEW PLUMBING FIXTURES WILL BE INSTALLED.
  - NEW SUPPLY PIPING AND WASTE PIPING WILL BE INSTALLED.
  - SANITARY DRAINS LINES WILL BE ADDED AS FIXTURES WILL BE IN NEW LOCATION.
  - NEW WATER HEATER WILL BE INSTALLED.



1431 Greenway Drive  
Suite 900  
Irving, Texas 75038  
Tel: (866) 299-3370  
Cert. of Auth. No. 18590

CONSULTANTS:

DATE	ISSUE
3/10/2019	PERMIT SET

CLIENT:

**SYNERGY  
NDS INC.**  
1400 SARNO ROAD  
MELBOURNE, FL 32935

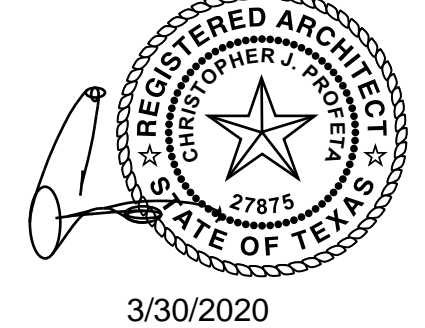
PROJECT:

**GIBBS MEMORIAL  
LIBRARY**  
305 E. RUSK STREET  
MEXIA, TX 76667

ISSUE SET:

**PERMIT SET**

SEAL:



DRAWING TITLE:

**GENERAL NOTES  
& NARRATIVE**

DRAWN BY: GGC | REVIEWED BY: CJP

JOB #: 100024944

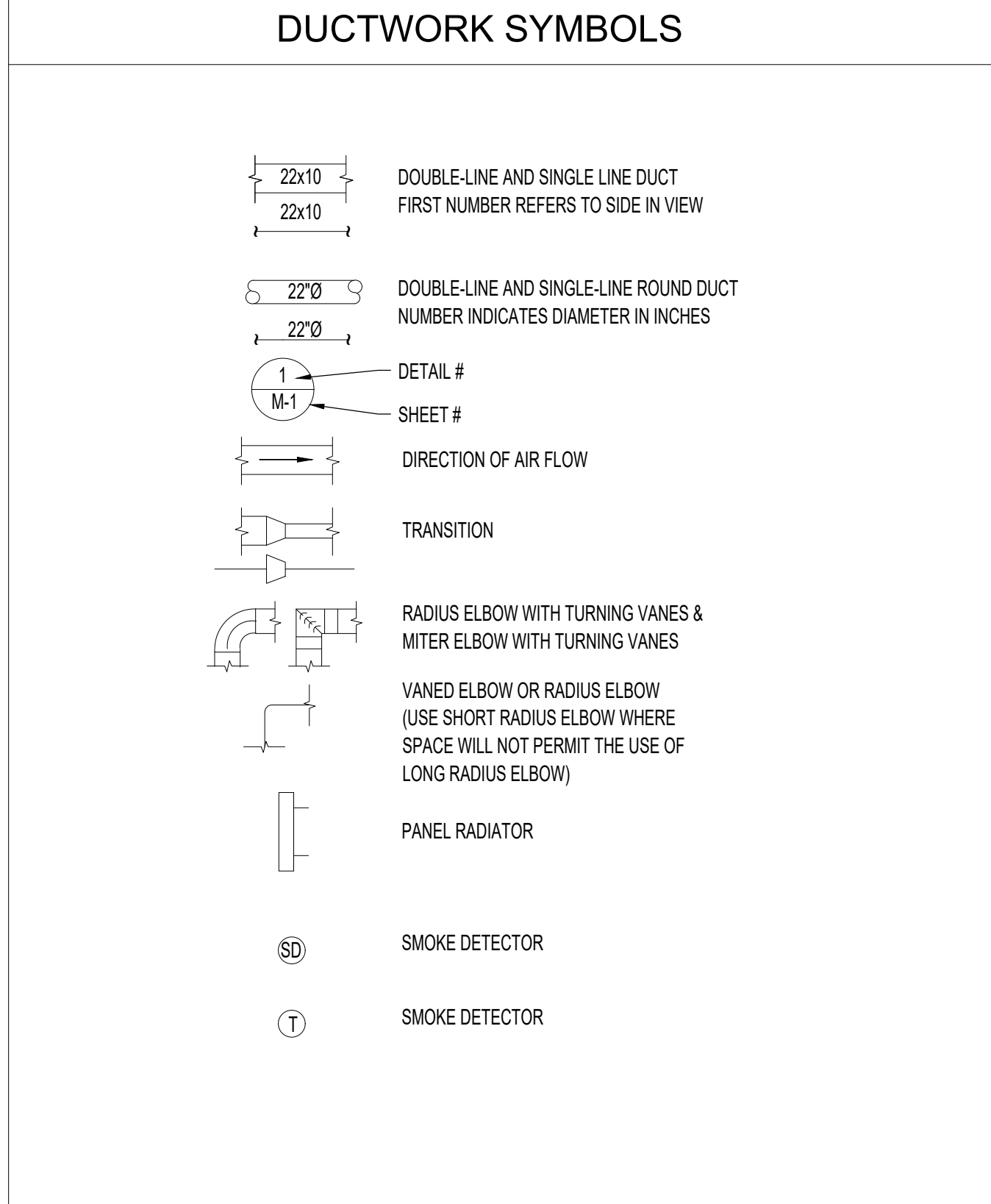
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**G001**

ABBREVIATIONS			
AFF	ABOVE FINISHED FLOOR	FT	FEET
AHU	AIR HANDLING UNIT	GAL	GALLON
AMB	AMBIENT	GPM	GALLON PER MINUTE
AP	ACCESS PANEL	HHWS	HEATING HOT WATER SUPPLY
ARCH	ARCHITECTURAL	HHWR	HEATING HOT WATER RETURN
AS	AIR SEPARATOR	HP	HORSEPOWER
BDD	BACKDRAFT DAMPER	IN	INCHES
BFP	BACK FLOW PREVENTER	KW	KILOWATT
BHP	BRAKE HORSEPOWER	(L)	LINED DUCTWORK
BOD	BOTTOM OF DUCT	LB	POUND
BMS	BUILDING MANAGEMENT SYSTEM	LD	LINEAR DIFFUSER
BTU	BRITISH THERMAL UNIT	LDB	LEAVING DRY BULB TEMPERATURE
BTUH	BTU PER HOUR	MAX	MAXIMUM
CC	COOLING COIL	MBH	THOUSAND BTU PER HOUR
CD	CEILING DIFFUSER	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	(N)	NEW
CG	CEILING GRILLE	NC	NORMALLY CLOSED (DAMPER OR VALVE)
CONN	CONNECTION	NO	NORMALLY OPEN (DAMPER OR VALVE)
CONT	CONTINUATION	NO.	NUMBER
CU FT	CUBIC FEET	OPER.WT.	OPERATING WEIGHT
CU IN	CUBIC INCHES	OPNG	OPENING
DB	DRY BULB	OSA	OUTSIDE AIR
DIA	DIAMETER OR Ø	PD	PRESSURE DROP
DR	DRAIN	PF	PRE-FILTER
(E)	EXISTING	POC	POINT OF CONNECTION
EA	EXHAUST AIR	PSI	POUNDS PER SQUARE INCH
EAT	ENTERING AIR TEMPERATURE	PSIG	PSI GAUGE
EG	EXHAUST GRILLE	RA	RETURN AIR
EF	EXHAUST FAN	RC	REHEAT COIL
EL	ELEVATION	RH	RELATIVE HUMIDITY
ELEC	ELECTRICAL	RPM	REVOLUTIONS PER MINUTE
ENT	ENTERING	SA	SUPPLY AIR
EMS	EMERGENCY MANAGEMENT SYSTEM	SAD	SEE ARCHITECTURAL DRAWINGS
ESP	EXTERNAL STATIC PRESSURE	SD	SUPPLY DIFFUSER
ES	ELECTRICAL SUPPLY	SF	SUPPLY FAN
FA	FACE AREA	SP	STATIC PRESSURE
FC	FLEXIBLE CONNECTION	SPD	SEE PLUMBING DWGS.
FCU	FAN COIL UNIT	SQ.FT.	SQUARE FEET
FD	FIRE DAMPER	TEMP	TEMPERATURE
FSD	COMBINATION FIRE/SMOKE DAMPER	TYP	TYPICAL
FLA	FULL LOAD AMP	UC	DOOR UNDERCUT
FPM	FEET PER MINUTE	VD	VOLUME DAMPER
		VFD	VARIABLE FREQUENCY DRIVE
		WB	WET BULB
		WC	WATER COLUMN



### GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL MECHANICAL CODE.
- PRIOR TO SUBMITTING BID, VISIT SITE AND THOROUGHLY INVESTIGATE LOCATIONS, CONNECTIONS AND DETAILS OF ALL SERVICES AND SYSTEMS WHICH WOULD IN ANY WAY AFFECT OR TIE-IN WITH WORK OF THESE DRAWINGS.
- NO ADDITIONAL MONIES WILL BE ALLOWED FOR WORK RESULTING FROM CONDITIONS WHICH WOULD HAVE BEEN EVIDENT UPON A THOROUGH EXAMINATION OF THE SITE.
- NOTIFY THE ENGINEER PRIOR TO BID CLOSING DATE OF ANY DISCREPANCIES OR POINTS OF DOUBT OR CONTENTION. FAILING THIS, ALLOW IN TENDER FOR THE MOST EXPENSIVE COURSE OF ACTION.
- COORDINATE EXACT LOCATIONS OF EQUIPMENT AND DEVICES WITH ARCHITECT, PROJECT MANAGER, AND ALL CONTRACTORS PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH ANY FIELD CHANGES REQUIRED BY THE OWNER, TENANT OR BY FIELD CONDITIONS.
- IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO EXAMINE THE CONTRACT DOCUMENTS CAREFULLY BEFORE SUBMITTING THEIR BID, WITH PARTICULAR ATTENTION TO ERRORS, OMISSIONS, CONFLICTS WITH THE PROVISIONS OF LAWS AND CODES HAVING JURISDICTION, CONFLICTS BETWEEN DRAWING OR DRAWINGS AND SPECIFICATIONS AND AMBIGUOUS DEFINITION OF THE EXTENSION OF COVERAGE BETWEEN CONTRACTS, ANY SUCH DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER FOR CORRECTION.
- SHOULD ANY OF THESE ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES EXIST, THE CONTRACTOR SHALL HAVE THEM EXPLAINED AND ADJUSTED IN WRITING BEFORE SIGNING THE CONTRACT OR PROCEEDING WITH THE WORK: OTHERWISE, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE PROCEED WITH THE WORK.
- THE MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATION ARE INTENDED TO BE USED TOGETHER AS CONSTRUCTION DOCUMENTS FORMING AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. THEY ARE INTENDED TO DEFINE, NOT LIMIT THE REQUIRED CONSTRUCTION AND DELIVERY TO THE OWNER OF COMPLETE SYSTEMS, IN PERFECT OPERATING CONDITION. SPECIAL ITEMS REQUIRED MAY BE SHOWN OR MENTIONED IN EITHER DRAWINGS OR THE SPECIFICATIONS, OR BOTH. HOWEVER, IT IS THE INTENT OF THE CONTRACT THAT THESE SYSTEMS SHALL BE CONSTRUCTED COMPLETELY AND CORRECTLY AND SHALL INCLUDE ALL ELEMENTS NECESSARY TO THE END. ANY ITEM NOT SPECIFICALLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THESE SPECIFICATIONS, BUT NORMALLY REQUIRED TO CONFORM WITH THE INTENT, ARE TO BE CONSIDERED A PART OF THE CONTRACT. PERFORM START-UP AND CHECK-OUT OF EACH ITEM AND SYSTEM TO PROVIDE FULLY OPERABLE SYSTEMS.
- COMPLY WITH ALL APPLICABLE GOVERNMENTAL REGULATIONS. COMPLY WITH ALL FEDERAL, STATE, CITY AND OTHER APPLICABLE CODES AND ORDINANCES. IF ANY CONFLICT ARISES BETWEEN SPECIFICATIONS, DRAWINGS, CODES AND ORDINANCES, IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER. DO NOT DEVIATE FROM THE DRAWINGS AND SPECIFICATIONS NOR INSTALL ANY WORK THAT MAY BE IN CONFLICT WITH CODES AND ORDINANCES UNTIL THE CONFLICT IS RESOLVED AND THE SOLUTION APPROVED BY THE ENGINEER IN WRITING.
- THE LOCATIONS OF FIXTURES, EQUIPMENT, PIPING, DUCTS, AND OTHER EQUIPMENT INDICATED ON THE DRAWINGS ARE APPROXIMATELY CORRECT, BUT THEY ARE UNDERSTOOD TO BE SUBJECT TO SUCH REVISION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME THE WORK IS INSTALLED, OR IN ORDER TO MEET FIELD CONDITIONS OR TO COORDINATE WITH MODULAR REQUIREMENTS OF CEILINGS, OR TO SIMPLIFY THE WORK, OR FOR OTHER LEGITIMATE CAUSES.
- WHEREVER CONFLICTS OCCUR BETWEEN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS, THE GREATER QUANTITY, THE BETTER QUALITY, OR LARGER SIZE SHALL PREVAIL UNLESS THE ENGINEER INFORMS THE CONTRACTOR OTHERWISE IN WRITING.

### PROJECT NOTES

### GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE LOCAL BUILDING CODES. ALL NEW DEVICES AND EQUIPMENT SHALL BE U.L. LISTED WHERE COMPONENTS OF EXISTING SYSTEMS ARE TIED INTO NEW SYSTEMS. THE ENTIRE ASSEMBLY TO BE U.L. LISTED. CLEARLY LABEL ALL NEW EQUIPMENT AT THE COMPLETION OF WORK.
- COORDINATE THE DISPOSAL OR RE-USE OF REMOVED ITEMS WITH THE CONSTRUCTION MANAGER. ANY ITEMS THAT ARE BEING RE-USED MUST BE IN GOOD WORKING CONDITION AT COMPLETION OF WORK. RETURN ALL EQUIPMENT NOT BEING USED TO CONSTRUCTION MANAGER (OWNER).
- COORDINATE ALL SYSTEM (HVAC, WATER, ETC.) INTERRUPTIONS WITH CONSTRUCTION MANAGER AND OWNER AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF OUTAGE. INCLUDE ANY PREMIUM HOUR TIME AND COSTS IN BID.
- CONTRACTOR SHALL SECURE BUILDING PERMIT AND PAY ALL FEES PRIOR TO WORK.
- PENETRATION THROUGH ALL SPECIAL WALL CONSTRUCTION AND FIRE RATED WALLS TO BE COMPLETELY SEALED AND FIRE RATED TO ORIGINAL SPECIFICATION.
- SUBSTITUTION OF ANY KIND WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- SUBMIT TO THE ENGINEER SHOP DRAWINGS (ELECTRONICALLY) OF ALL COMPONENTS OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS PRIOR TO ORDER OR FABRICATION.
- PROVIDE REQUIRED SUPPORTS AND HANGERS FOR DUCTS, PIPES, AND EQUIPMENT SO THAT LOADING WILL NOT EXCEED ALLOWABLE LOADINGS OF STRUCTURE AS PERMITTED BY CODES.
- ACCEPTANCE OR REJECTIONS OF THE SUBSTITUTIONS WHEN PERMITTED SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. UNDER NO CIRCUMSTANCES WILL THE ENGINEER BE REQUIRED TO PROVE THAT AN ITEM PROPOSED FOR SUBSTITUTION IS EQUAL TO THE SPECIFIED ITEMS. IT IS MANDATORY THAT THE CONTRACTOR SUBMIT TO THE ENGINEER IN WRITING ALL EVIDENCE REQUIRED TO SUPPORT HIS CONTENTION THAT THE ITEM PROPOSED FOR SUBSTITUTION IS EQUAL TO THE ITEM INDICATED IN THE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL INCLUDE ALL ENGINEERING COSTS FOR REVIEW OF SUBSTITUTIONS.
- INSPECTION, TESTS AND GUARANTEES
  - THE WORK SHALL BE SUBJECT TO INSPECTION BY THE ENGINEER OR THEIR REPRESENTATIVES AT ALL TIMES.
  - AFTER THE INSTALLATION IS COMPLETED AND AT SUCH TIMES AS THE ENGINEER MAY DIRECT THE CONTRACTOR SHALL CONDUCT AN OPERATING TEST FOR APPROVAL. THE INSTALLATION SHALL BE DEMONSTRATED TO BE IN ACCORDANCE WITH MECHANICAL ENGINEERING PLANS. SHOULD DEFICIENCIES BE REVEALED DURING SAID TEST, THEY SHALL BE CORRECTED PROMPTLY AT THE CONTRACTOR'S EXPENSE.
  - ALL MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION WORK, EQUIPMENT AND MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR (365 DAYS) FROM THE DATE OF ACCEPTANCE OF THE WORK. THE CONTRACTOR SHALL BE NOTIFIED IN WRITING OF ANY DEFECTIVE ITEMS AND SHALL REPAIR OR REPLACE SUCH ITEMS PROMPTLY WITHOUT COST TO THE OWNER.
- FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, AND PERFORM ALL REQUIRED OPERATIONS TO PROVIDE COMPLETE AND OPERABLE MECHANICAL SYSTEM, IN ACCORDANCE WITH THE FULL INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS AND PER STANDARD TRADE PRACTICES.
- LOCATIONS OF DUCTWORK AND EQUIPMENT ARE SHOWN DIAGRAMATICALLY. ADHERE TO EQUIPMENT LOCATIONS AND DUCT RUNS AS CLOSELY AS POSSIBLE AS ACTUAL CONSTRUCTION WILL PERMIT. PROVIDE ADDITIONAL OFF-SETS AND VARY RUNS OR SHAPE OF DUCTWORK AS REQUIRED TO CLEAR STRUCTURAL AND OTHER INTERFERENCES SO FINISHED INSTALLATION IS NEAT AND ORDERLY AND CONCEALED BEHIND ALL WALL AND CEILING FINISHES. NO ABRUPT FITTINGS SHALL BE ALLOWED WITHOUT PRIOR APPROVAL BY PROJECT ENGINEER.

### GENERAL NOTES

- MECHANICAL CONTRACTOR SHALL DIMENSIONALLY FIELD VERIFY ALL DUCT, PIPING, CONDUIT AND EQUIPMENT LAYOUTS AND COORDINATE THE EXACT LOCATIONS AND ELEVATIONS OF HIS/HER WORK IN RELATION TO THE WORK OF ALL OTHER TRADES BEFORE FABRICATION AND INSTALLATION OF WORK. ANY ADDITIONAL OFF-SETS REQUIRED TO CLEAR MAJOR COMPONENTS OF OTHER TRADES SHALL BE PROVIDED AT NO ADDITIONAL COSTS TO THE OWNER. COORDINATE ANY ROUTING OF WORK OF ANY OTHER TRADE IF OFF-SETS IN MECHANICAL SYSTEMS WOULD BE TOO ABRUPT OR RESULT IN INACCURATE SENSOR READING.
- REFER TO ARCHITECTURAL REFLECTED CEILING AND FLOOR PLANS AS WELL AS INTERIOR ELEVATIONS FOR EXACT LOCATIONS OF AIR OUTLETS, THERMOSTATS, AND ROOM TEMPERATURE SENSORS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL AIR OUTLETS WITH REFLECTED CEILING PLAN, FLOOR PLAN, EXISTING SITE CONDITIONS AND ALL DUCTWORK LOCATIONS WITH WORK OF OTHER TRADES BEFORE PROCEEDING WITH FABRICATION.
- VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OF THERMOSTATS, TEMPERATURE SENSORS AND ALL OTHER WALL MOUNTED CONTROLS WITH ARCHITECT BEFORE INSTALLATION. IF NOT DIRECTED OTHERWISE, MOUNT ALL WALL MOUNTED CONTROL ELEMENTS AT 48" AFF.
- INSTALL ALL DUCTWORK WITH VOLUME DAMPERS AND ANY OTHER ITEMS REQUIRING MAINTENANCE ACCESS AT AN ELEVATION WITHIN REACH OF THE ACCESSIBLE CEILING. REFER TO ARCHITECTURAL DRAWINGS FOR FINISHED CEILING ELEVATIONS.
- DUCT DIMENSIONS INDICATED ON PLAN ARE NET INTERIOR DIMENSIONS. PROVIDE MINIMUM LENGTHS OF ACOUSTICALLY LINED SA AND RA DUCTS AS INDICATED ON PLANS. PROVIDE FLEX DUCT ONE SIZE LARGER, UNLESS OTHERWISE SHOWN. TERMINAL BOX BRANCH RUNOUTS MIN. 1 SIZE LARGER THAN BOX INLET SIZE.
- ALL EQUIPMENT SHALL BE INSTALLED WITH SUFFICIENT ACCESS TO CONTROLS, FILTERS, ELECTRIC MOTORS, ETC. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECT FOR ACCESS TO ALL DAMPERS AND EQUIPMENT.
- FLASH AND COUNTERFLASH ALL ROOF PENETRATIONS AS REQUIRED TO SEAL WEATHER TIGHT.
- MECHANICAL CONTRACTOR SHALL PROVIDE BIRD SCREENS AT ALL INTAKE AND EXHAUST OPENINGS.
- WHERE EQUIPMENT ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECTURAL/STRUCTURAL ENGINEER.
- ALL HVAC DUCTS AND PIPES SHALL BE SUPPORTED AND BRACED PER LATEST VERSION OF "SMACNA" GUIDELINES.
- EXACT LOCATION OF ALL ROOFTOP OPENINGS AND THE LOCATION OF ALL ROOFTOP MOUNTED EQUIPMENT SUPPORTS ARE DETAILED ON THE ARCHITECTURAL PLANS.
- ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOF.
- DUCTWORK SHALL BE INSULATED OR LINED PER SPECIFICATIONS OR AS NOTED ON DRAWINGS. ALL DUCT SIZES ARE CLEAR INTERNAL SIZES. ALL DUCT JOINTS AND SEAMS SHALL BE SEALED PER SPECIFICATIONS. ALL FACTORY MADE AIR DUCT SHALL BE OF CLASS 1 OR 0.
- COORDINATE MECHANICAL AND ELECTRICAL INSTALLATION TO ASSURE ADEQUATE MAINTENANCE ACCESS IS PROVIDED FOR ABOVE CEILING EQUIPMENT.
- PROVIDE TAGS AND LABELS ON CEILING TO INDICATE LOCATION OF ELECTRICAL DISCONNECTS AND MECHANICAL EQUIPMENT LOCATIONS.
- ALL CONNECTIONS BETWEEN AC UNIT/FAN AND DUCTWORK SHALL HAVE FIREPROOF, HEAVY FLEX CONNECTIONS (LOCAL JURISDICTION APPROVED) WITH 3" MIN. CLEARANCE. ISOLATE ALL HVAC UNIT/FAN AND EQUIPMENT FROM STRUCTURE WITH APPROVED ISOLATION MOUNTS.
- ALL DUCTWORK SHALL BE SUPPORTED AS PER MINIMUM REQUIREMENTS AND SHALL BE BRACED AND GUYED TO PREVENT LATERAL OR HORIZONTAL SWING. COMPLY WITH LATERAL SEISMIC RESTRAINT GUIDELINES AS PER SMACNA. ALL DUCT PENETRATIONS SHALL HAVE TRIM RINGS.

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**MECHANICAL  
NOTES**

DRAWN BY: GGC | REVIEWED BY: CJP

JOB #: 100024944

SCALE: AS NOTED

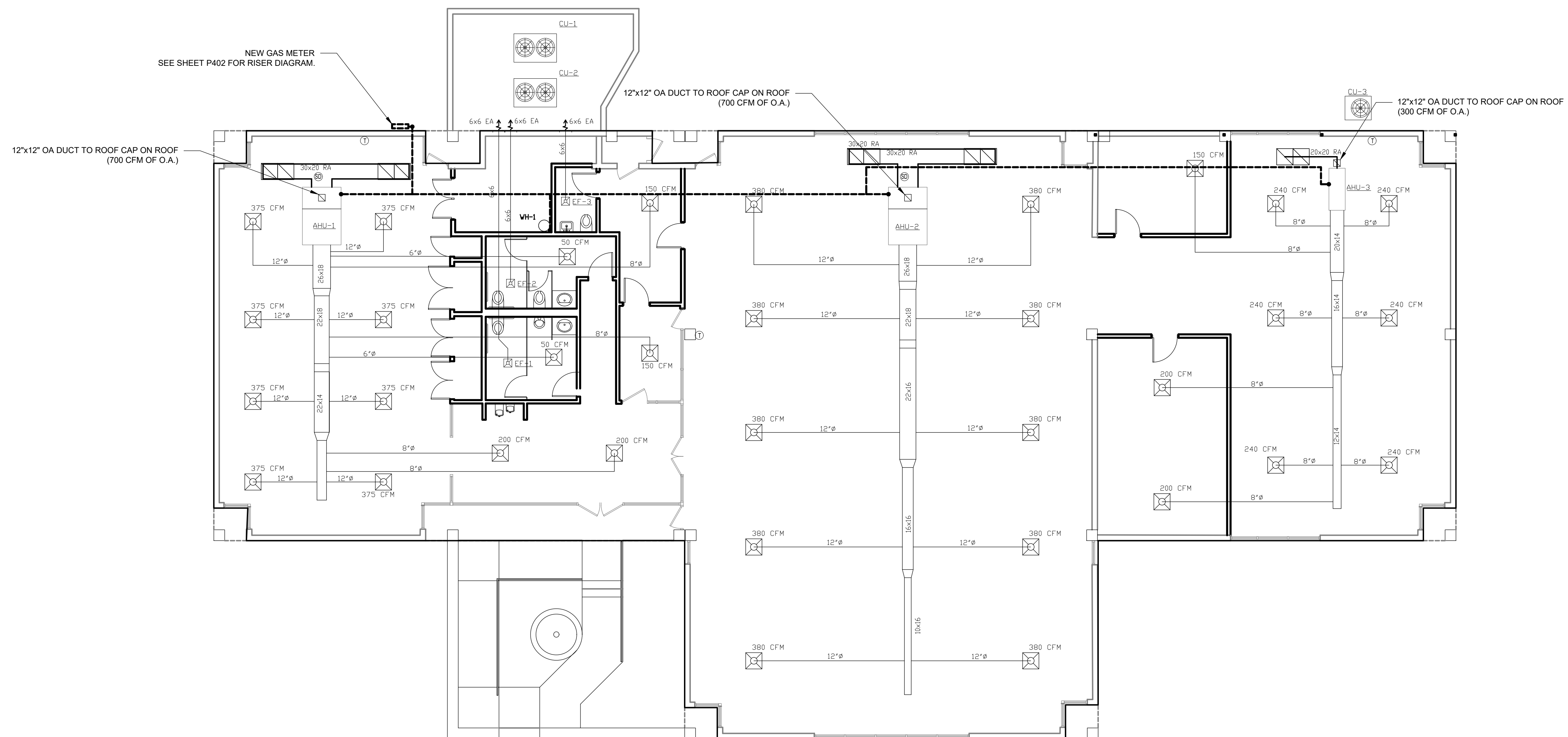
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**M000**

**MECHANICAL NOTES:**

1. OUTSIDE AIR CALCULATION.
  - 1.1. PER ASHRAE 62 TABLE 6-1, LIBRARIES OCCUPANT DENSITY IS 10 PEOPLE PER 1,000 SF.
  - 1.2. THE BUILDING IS 8, 663 SF.
  - 1.3. OCCUPANCY IS 87 PEOPLE AT 17 CFM/ PERSON.
  - 1.4. REQUIRED OUTSIDE AIR IS 1,472 CFM.
  - 1.5. OUTSIDE AIR PROVIDED IS 1,700 CFM.



**1 MECHANICAL PLAN**  
SCALE: 1/8"=1'-0"

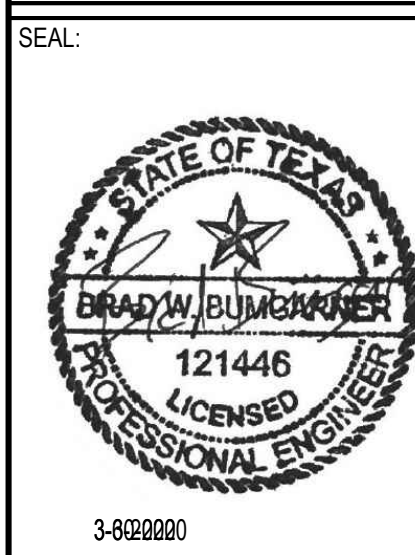
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**MECHANICAL  
FLOOR PLAN**

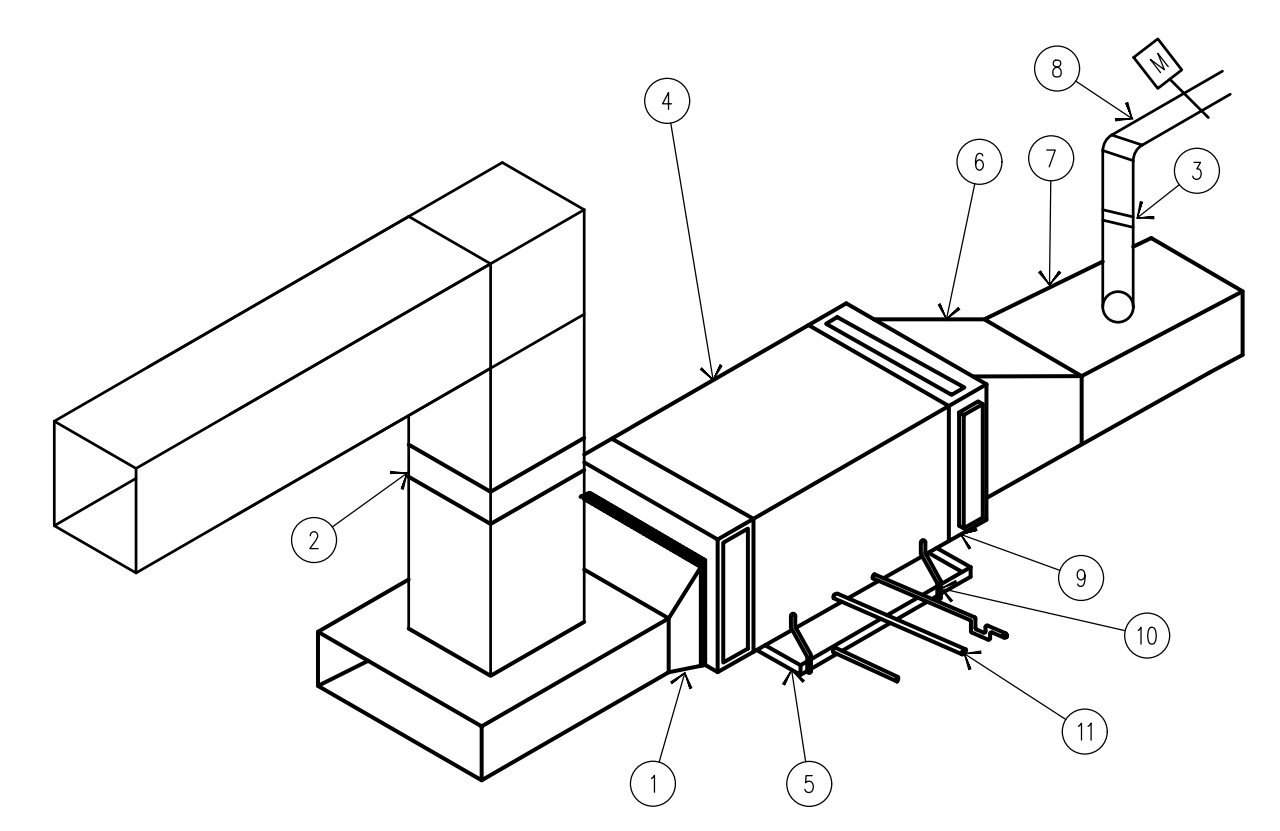
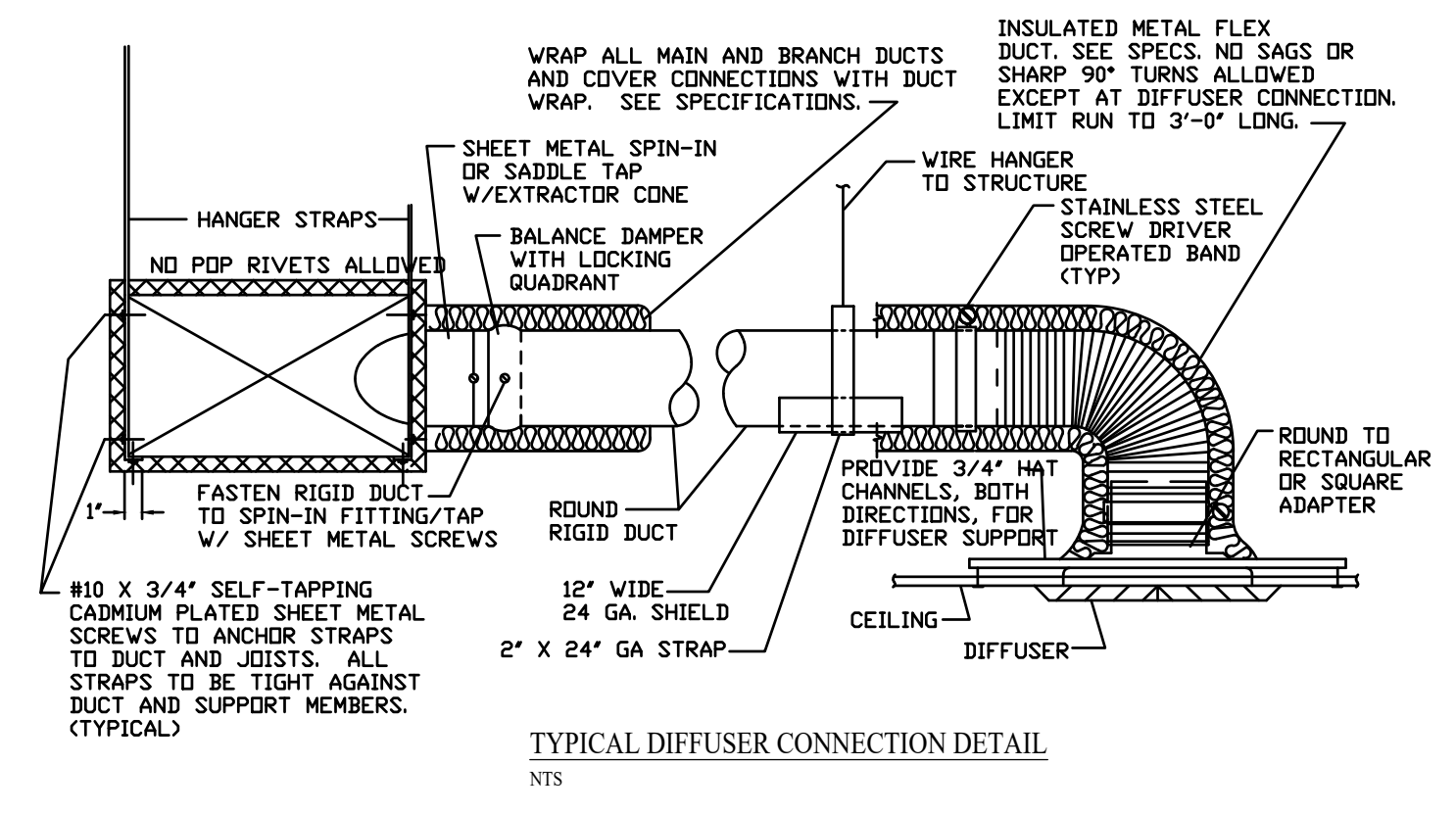
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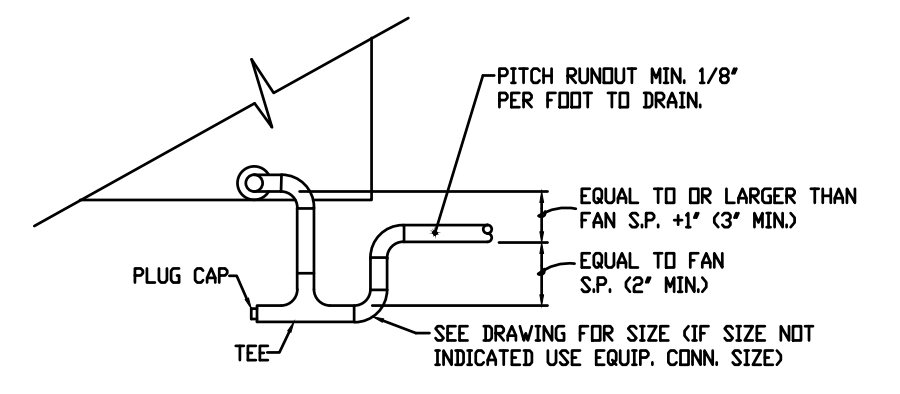
**RIMKUS**  
BUILDING CONSULTANTS

1431 Greenway Drive  
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**FAN COIL DETAIL**  
NTS

1. SUPPLY AIR DUCT.
2. FLEXIBLE CONNECTOR.
3. SUPPLY DUCT UP THRU FIRE RATED CEILING WITH FIRE DAMPER LISTED FOR CEILING UL RATING.
4. AIR HANDLING UNIT.
5. AUXILIARY DRAIN PAN.
6. TRANSITION AS REQUIRED.
7. RETURN AIR DUCT.
8. OUTSIDE AIR DUCT WITH MOTORIZED DAMPER.
9. 1" GALVANIZED DRAIN PAN STRAPPED TO AIR HANDLING UNIT.
10. CONDENSATE DRAIN WITH 2" TRAP.
11. REFRIGERANT LINES TO CONDENSING UNIT.



**TYPICAL DRAIN TRAP**  
NTS

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**M501**

DIFFUSER/GRILLE SCHEDULE							
ITEM	MANUFACTURER & MODEL NO.	CFM	TYPE	NECK SIZE (IN. X IN.)	MAX S.P. IN. WC	MAX N.C.	NOTES
SD-1	PRICE PDS	0-95	MODULAR CORE DIRECTIONAL	6"Ø	0.04	20	1,2
SD-1	PRICE PDS	96-250	MODULAR CORE DIRECTIONAL	8"Ø	0.04	20	1,2
SD-1	PRICE PDS	251-325	MODULAR CORE DIRECTIONAL	10"Ø	0.04	20	1,2
SD-1	PRICE PDS	326-475	MODULAR CORE DIRECTIONAL	12"Ø	0.04	20	1,2
RG-1	PRICE PDR	700	STEEL LOUVERED GRILLE	22X22	.101	25	1,2,3

- NOTES:**
- COORDINATE COLOR AND FINISH WITH ARCHITECT
  - WITH BALANCING AT FACE
  - INCLUDE FILTER FRAME

EXHAUST FAN SCHEDULE											
ITEM	MANUFACTURER & MODEL NO.	AREA SERVED	CFM	SONES	SP (IN WG)	ELECTRICAL				TOTAL WEIGHT (LB.)	NOTES
						MOTOR WATTS	VOLT	PHASE	AMPS		
EF-1	GREENHECK SP-A110	BATHROOM	100	28	0.25	18	120	1	0.6	17	1
EF-2	GREENHECK SP-A110	BATHROOM	100	28	0.25	18	120	1	0.6	17	1
EF-3	GREENHECK SP-B80	BATHROOM	50	1.1	0.25	18	120	1	0.6	9	1

- NOTES:**
- CONSTANT RUN CEILING FAN WITH LIGHT OF MOTION SENSOR, GRILLE, BACKDRAFT DAMPER AND VARIABLE SPEED MOTOR. ENERGY STAR RATED.

FAN COIL UNIT SCHEDULE															
ITEM	MANUFACTURER & MODEL NO.	CFM	OA CFM	SUPPLY FAN				COOLING COIL		HTG COIL	TOTAL WEIGHT (LB.)	MCA (208V)	MOCP	NOTES	
				EXTERNAL SP (IN WG)	MOTOR DATA			TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	GAS (MBH)					
					HP	VOLT	PH								HZ
AHU-1	RHEEM RHGN-120	3800	700	0.30	2	208	3	60	116,836	86,336	120,000	383	10.6	15	GOODMAN FURNACE GMVM801205DN
AHU-2	RHEEM RHGN-120	3800	700	0.30	2	208	3	60	116,836	86,336	120,000	383	10.5	15	GOODMAN FURNACE GMVM801205DN
AHU-3	TRANE TAM90AOC60V51DA	2000	300	0.30	1	208	3	60	60,000	-	60,000	175	32	35	TRANE FURNACE SPX1B060U4PSBA.

CONDENSING UNIT SCHEDULE								
ITEM	MANUFACTURER & MODEL NO.	SEER	CAPACITY	ELECTRICAL DATA				NOTES
				VOLT	PH	MCA	MOCP	
AC-1	RHEEM RAWL-120CAZ (EXISTING)	11.2	120,000 MBH	208	3	43	60	
AC-2	RHEEM RAWL-120CAZ (EXISTING)	11.2	120,000 MBH	208	3	43	60	
AC-3	TRANE XL18I	15.0	60,000 MBH	208	3	22	35	

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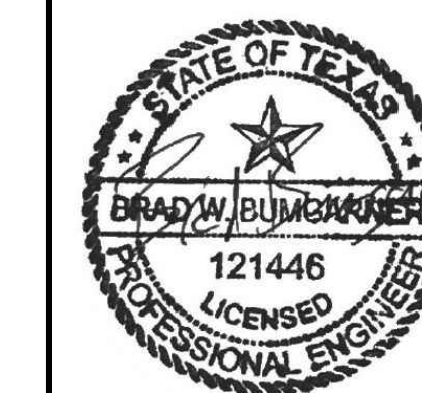
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