



WILL COUNTY, ILLINOIS

PURCHASING DEPARTMENT

JENNIFER BERTINO-TARRANT
WILL COUNTY EXECUTIVE

KEVIN LYNN
DIRECTOR

P.815-740-4712
F.815-740-4604
E. klynn@willcounty.gov

County Office Building
302 N. Chicago Street
Joliet, IL 60432

June 26, 2024

To Whom It May Concern:

You are invited to submit your sealed bid for significant renovations at the Will County Community Health Center to accommodate a new call center suite.

Complete bid specifications are included, **which will act as the contract and must be filled out and returned as such.**

A pre-bid conference is scheduled for 10:00 A.M., on Wednesday, July 10, 2024 at the Community Health Center, 1106 Neal Ave., Joliet, IL 60433.

A 10% Bid Bond or Cashier's Check made payable to the Will County Treasurer MUST accompany your bid, or it will not be considered. Money Orders or Company checks will not be accepted.

Sealed bids will be received in the purchasing department, 2nd floor, Will County Office Building, 302 N. Chicago St., Joliet, IL 60432, **DUE NOT LATER THAN 10:00 A.M., "AS SO INDICATED BY THE TIME STAMP CLOCK OF WILL COUNTY", TUESDAY, JULY 23, 2024.**

Bids will be publicly opened and read by the Will County Executive or her Representative at **10:05 A.M., TUESDAY, JULY 23, 2024**, at the Will County Office Building, 302 N. Chicago Street, 2nd Floor, Joliet, IL. 60432. You are welcome to attend the meeting.

Should you have any questions regarding this bid, please contact Kevin Lynn in writing at klynn@willcounty.gov

We welcome your bid.

Sincerely,

Kevin Lynn

Kevin Lynn
Purchasing Director

**ADVERTISEMENT OF BID
COMMUNITY HEALTH CENTER CALL CENTER RENOVATIONS
WILL COUNTY, JOLIET, IL.**

SEALED BIDS FOR SIGNIFICANT RENOVATIONS AT THE WILL COUNTY COMMUNITY HEALTH CENTER TO ACCOMMODATE A NEW CALL CENTER SUITE WILL BE RECEIVED AT THE WILL COUNTY PURCHASING DEPARTMENT, WILL COUNTY OFFICE BUILDING, 302 N. CHICAGO ST., JOLIET, IL 60432, UNTIL THE HOUR OF 10:00 A.M., TUESDAY, JULY 23, 2024.

A PRE-BID CONFERENCE WILL BE HELD ON **WEDNESDAY, JULY 10, 2024, AT 10:00 A.M.**, AT THE COMMUNITY HEALTH CENTER, 1106 NEAL AVE, JOLIET, IL 60433. PLEASE CONTACT THE PURCHASING DEPARTMENT VIA EMAIL purchasing@willcounty.gov BY **4:00 P.M. FRIDAY, JULY 5, 2024** TO REGISTER YOUR COMPANY/ATTENDEES.

BIDS WILL BE PUBLICLY OPENED AND READ BY THE WILL COUNTY EXECUTIVE OR HER REPRESENTATIVE AT 10:05 A.M., TUESDAY, JULY 23, 2024, AT THE WILL COUNTY OFFICE BUILDING, 302 N. CHICAGO ST., 2ND FLOOR, JOLIET, IL. 60432.

SPECIFICATIONS AND CONDITIONS OF THE BID ARE AVAILABLE AT www.demandstar.com OR www.willcounty.gov AS WELL AS THE PURCHASING DEPARTMENT, 2ND FLOOR, WILL COUNTY OFFICE BUILDING, 302 N. CHICAGO ST., JOLIET, IL 60432, (815) 740-4712 OR BY SUBMITTING REQUEST VIA EMAIL AT purchasing@willcounty.gov

THE TENDERING OF A BID TO THE COUNTY SHALL BE CONSTRUED AS ACCEPTANCE OF THE SPECIFICATIONS. THE BIDDER ACKNOWLEDGES THE RIGHT OF THE COUNTY OF WILL TO REJECT ALL BIDS, AND TO WAIVE NON-MATERIAL INFORMALITY OR IRREGULARITY IN ANY BID RECEIVED IN WHOLE OR PART AS MAY BE SPECIFIED IN THE SOLICITATION.

BY ORDER OF THE WILL COUNTY EXECUTIVE, JENNIFER BERTINO-TARRANT.

**INSTRUCTIONS TO BIDDERS
COMMUNITY HEALTH CENTER CALL CENTER RENOVATIONS
WILL COUNTY, JOLIET, IL**

GENERAL SPECIFICATIONS

You are invited to submit your bid for Significant Renovations at the Will County Community Health Center to Accommodate a new Call Center Suite.

Pre-Bid Conference:

A pre-bid conference will be held on Wednesday, July 10, 2024, at the Community Health Center, 1106 Neal Ave, Joliet, IL 60433. Please contact the Purchasing Department at purchasing@willcounty.gov by Friday, July 5 4:00 PM to register your company/attendees.

SEALED BIDS:

Sealed bids will be received in the Purchasing Department, 2nd floor, Will County Office Building, 302 N. Chicago St., Joliet, IL 60432, **not later than 10:00 A.M., Tuesday, July 23, 2024, "as so indicated by the time stamp clock of Will County"**.

BIDS RECEIVED AFTER THIS TIME WILL NOT BE ACCEPTED.

Sealed bids will be publicly opened and read aloud by the Will County Executive or her representative at **10:05 A.M., Tuesday, July 23, 2024** at the Will County Office Building, 302 N. Chicago St., 2nd Floor, Joliet, IL 60432.

Bids must be made in accordance with the instructions contained herein.

Bid forms shall be completely filled out either typewritten or in ink. The **complete set of Contract Documents shall be submitted** with the proposal, with **ONE (1) ORIGINAL, THREE (3) COMPLETE COPIES CLEARLY MARKED AND A DIGITAL COPY ON AN ELECTRONIC STORAGE DEVICE.**

Proposals shall be submitted on the forms furnished by the County of Will in a sealed package, plainly marked, with the bidder's name, address, and the notation:

SEALED BID:	2024-72 CHC Call Center Suite
Pre-Bid Conference:	<u>10:00 A.M., Wednesday, July 10, 2024</u>
QUESTIONS DUE:	<u>12:00 P.M., Tuesday, July 16, 2024</u>
ADDENDA RELEASE:	<u>12:00 P.M., Thursday, July 18, 2024</u>
BIDS DUE:	<u>10:00 A.M., Tuesday, July 23, 2024</u>

Bids shall be addressed to the Will County Purchasing Department, Will County Office Building, 302 N. Chicago St., Joliet, IL 60432.

SPECIFICATIONS:

Specifications are attached hereto and incorporated herein.

SIGNATURE OF BIDS:

The **signature on bid documents** shall be that of an authorized representative of bidder. An officer of or agent of the offering bidder who is empowered to bind the bidder in a Contract shall sign the proposal and any clarifications to that proposal. The County of Will bears no responsibility in determining whether signer is so authorized. Each bidder, by making his bid, represents that he has read and understands the bidding documents.

Each bidder, by making his bid, represents that he has read and understands the bidding documents. **Any bid not containing said signed documents shall be non-conforming and shall be rejected.**

BIDDING PROCEDURES:

1. All bids must be prepared on the forms provided by the County and with **ONE (1) ORIGINAL, THREE (3) COMPLETE COPIES AND ONE ELECTRONIC COPY ON A DIGITAL STORAGE DEVICE, CLEARLY MARKED,** in accordance with the Instructions to bidders.
2. A bid is invalid if it has not been deposited at the designated location prior to the time and date for receipt of bids indicated in the Advertisement for bids or prior to any extension thereof issued to the bidders.
3. Unless otherwise provided in any supplement to the Instructions to bidders, no bidder shall modify, withdraw or cancel his bid or any part thereof for sixty (60) days after the time designated for the receipt of bids in the Advertisement for bids.
4. Changes or corrections may be made in the bid documents after they have been issued and before bids are received. In such cases a written addendum describing the change or correction will be issued by the County of Will to all bidders recorded by the County of Will as having received the bidding documents and will be available for inspection wherever issued. Such addendum shall take precedence over that portion of the documents concerned, and shall become part of the bid documents. Except in unusual cases, addendum will be issued to reach the bidders at least five (5) days prior to date established for receipt of bids.
5. Each bidder shall carefully examine all bid documents and all addenda thereto, and shall thoroughly familiarize themselves with the detailed requirements thereof prior to submitting a proposal. Should a bidder find discrepancies or ambiguities in, or omissions from documents, or should they be in doubt as to their meaning, they shall, at once, and in any event, not later than seven (7) days prior to bid due date, notify the County of Will, who will, if necessary, send written addendum to all bidders. The County of Will will not be responsible for any oral instructions. All inquiries shall be directed to Kevin Lynn, Purchasing Director in writing at klynn@willcounty.gov After sealed bids are received, the bidder will make no allowance for oversight.

REJECTION OF BIDS:

The bidder acknowledges the right of the County of Will to reject any and all proposals for cause and to waive non-material informality or irregularity in any bid received.

NO BIDS:

Those who wish not to bid this project please return your bid plainly marked "**NO BID**" or send email of same to retain company name on bidders list. If you choose not to reply company your name will be removed and no future bids will be automatically sent.

PRIME CONTRACTOR CERTIFICATION:

Included in this bid package is a prime Contractor certification form. **This form must be filled out, signed, and returned with your sealed bid package or it will not be accepted.**

REFERENCES:

Included in this bid package is a reference form. Please fill out and complete this form citing clients for which you have provided similar services.

WORDS AND FIGURES:

Where amounts are given in both words and figures, the words shall govern. If the amount is not written in words the unit cost will take precedence over the extended price in case of a discrepancy in the multiplication.

BID SECURITY:

A 10% Bid Bond or Cashier's Check made payable to the **WILL COUNTY TREASURER**, shall accompany each bid, attached to the front cover, as a guarantee that if the bid is accepted, a contract will be entered into. Please calculate the 10% bid bond on the extended cost of bidder's hourly rate x TOTAL hours per location, for the first year only and include all buildings. **Money Orders or Company checks will not be accepted.** The Bid Bond or Cashier's Check will be returned to the unsuccessful bidders after the Bid has been awarded and will be returned to the successful bidder upon receipt of the Performance Bond, if applicable.

PERFORMANCE BOND:

A Performance Bond for the amount of the annual contract will be required from the **successful bidder** and shall be valid throughout the life of the contract. The Performance Bond will be returned at the completion of the contract. If it is difficult to acquire a Performance Bond by the time the contract is to commence, the County of Will shall accept a letter notarized by the Insurance Carrier showing that such Bond is being processed at this time.

NON-DISCRIMINATION:

The Contractor shall at all times observe and comply with any law, statute, regulation or the like relating in any way to civil rights including but not limited to 775 ILCS 10/1, *et seq.*

DEFAULT:

In case of default by the successful Bidder, the County of Will may procure the articles or services from other sources and may deduct from the unpaid balance due the successful bidder any of its costs resulting from the default, or may collect against the bond or surety for excess costs so paid, and the prices paid by the County of Will shall be considered the prevailing market price at the time such purchase is made.

Will County reserves the right to cancel the contract if the bidder fails to perform the work required in the bid specifications after efforts to resolve any problems that have been unsuccessful.

TYPES OF INSURANCE:

1. **Statutory Workers' Compensation and Employers' Liability (EL) Insurance.** The Contractor shall procure and maintain during the life of this Contract Workmen's Compensation Insurance as required by applicable state law for all of his employees who would be engaged in work on the project. In case of any class of employees engaged in any work on the project under this Contract is

not protected under the Workmen's Compensation Statute, the Contractor shall provide adequate employer's liability insurance for the protection of such of his employees as are provide Employer's Liability (coverage B) in the amount of \$500,000.00.

2. **Comprehensive General Liability Insurance.** A combined bodily injury and property damage occurrence limit of not less that \$1,000,000 per person and \$2,000,000 per occurrence. The policy shall contain blanket contractual liability, products, and completed operations coverage, and independent Vendor's coverage.
3. **Comprehensive Automobile Liability Insurance.** The policy shall be maintained for the duration of this Agreement and shall, at a minimum consist of \$1,000,000 per person and \$2,000,000 per occurrence for Bodily Injury and Property Damage.
4. **Owner's Protective Liability Insurance.** The Contractor shall protect the County or its assignee, if any, from any responsibility arising from the work performed under this Contract by adding these parties as named insured as a rider to the General Contractor specified Comprehensive General Liability policy in an amount not less than \$500,000.00 per occurrence. The named insured in this Comprehensive General Liability Policy shall be: County of Will, 302 N. Chicago St., Joliet, IL 60432.

PROOF OF INSURANCE:

1. The Contractor shall furnish the owner at the time of bidding, with certificates showing the type, amount, class or operations covered, effective dates and dates or expiration of policies, which policies shall specifically refer to the indemnity agreement. Such certificates shall also contain substantially the following statement: "The Insurance covered by this Certificate will not be canceled or materially altered except after 30 days written notice has been received by all named insured."

Any bid not containing said proof of insurance shall be non-conforming and shall be rejected.

2. All policies shall substitute the word "Occurrence" for "accident" for both bodily and property damage. "Occurrence" shall be defined to mean an event or series of events or continuous or repeated exposure to conditions, which unexpectedly cause injury or damage during the policy period.
3. All insurance coverage shall be provided by insurance companies maintaining a financial strength and claims paying ability rating no lower than "A" MINUS "VIII" as rated by the 1999 or most current AM Bests Insurance Guide.

CHOICE OF LAW AND VENUE:

Any cause of action related to this bid, or contract related thereto, shall be governed by the laws of the State of Illinois without regard to conflict of law provisions. Venue for any cause of action related to this bid, or any contract related thereto, shall be in the Twelfth Judicial Circuit, Will County, Illinois.

ILLINOIS FREEDOM OF INFORMATION ACT:

Any and all submissions to the County of Will become the property of the County of Will and these and any late submissions will not be returned. Your proposal will be open to the public under the Illinois Freedom of Information Act (FOIA) (5 ILCS 140) and other applicable laws and rules, unless you request in your proposal that we treat certain information as exempt. We will not honor requests to exempt entire proposals. You must show the specific grounds in FOIA or other law or rule that support exempt treatment. If you request exempt treatment, you must submit an additional copy of the proposal with exempt information deleted. This copy must tell the general nature of the material removed and shall retain as much of the proposal as possible. In the event the County of Will receives a request for a document submitted, the County of Will shall provide notice to contractor as soon as practicable. Regardless, contractor will be responsible for any costs or damages associated with defending your request for exempt treatment. Furthermore, contractor warrants that County of Will's responses to requests for a document submitted that is not requested to be exempt will not violate the rights of any third party.

Please be advised that if your proposal is accepted by the County of Will all related records maintained by, provided to, or required to be provided to the County of Will during the contract duration are subject to FOIA. In the event the County of Will receives a request for a document relating to contractor, its provision of services, or the arranging for the provision of services, the County of Will shall provide notice to contractor as soon as practicable and, within the period available under FOIA, contractor may then identify those records, or portions thereof, that it in good faith believes to be exempt from production and the justification for such exemption, making reference to the specific FOIA provision applicable without simply making a general claim that the information is "confidential," "proprietary," "exempt from disclosure," or the like. Regardless, contractor will be responsible for any costs or damages associated with defending the request for exempt treatment. Furthermore, contractor will warrant that County of Will's responses to requests for a document relating to contractor, its provision of services, or the arranging for the provision of services, will not violate the rights of any third party.

Please be advised also that FOIA provides that any record in the possession of a party with whom the County of Will has contracted to perform a governmental function on behalf of the County of Will, and that directly relates to the governmental function and is not otherwise exempt under FOIA is considered a public record of the County of Will for purposes of FOIA. 5 ILCS 140/7(2). As such, upon request by the County of Will (or any of its officers, agents, employees or officials), the contractor shall provide to the County of Will at no cost and within the time frames of FOIA a copy of any "public record" as required by FOIA and in compliance with the provisions of FOIA. After request by the County of Will, contractor may then identify those records, or portions thereof, that it in good faith believes to be exempt from production and the justification for such exemption, making reference to the specific FOIA provision applicable without simply making a general claim that the information is "confidential," "proprietary," "exempt from disclosure," or the like. Regardless, contractor will be responsible for any costs or damages associated with defending the request for exempt treatment.

SUBMITTAL REQUIREMENTS:

Each of the following Products shall be submitted by the bid time mentioned herein in order that the bid will be considered:

1. 10% Bid Bond or Cashier's Check
2. **Signed** Copy of Prime Contractor Certification
3. Reference form
4. **Signed** and completed Bid Form
5. **Signed** and completed Receipt of Addenda Form
6. Proof of Insurance

PRIME CONTRACTOR CERTIFICATION

The undersigned hereby certifies that _____
Company Name
is not barred from contracting with any unit of State or local government as a result of a violation of either
Section 33E-3 or 33E-4 of the Criminal Code of 1961.

Representative of Company	Title
Signature	Date

Note: A person who makes a false certificate commits a Class 3 Felony.

Sections 33E-3 and 33E-4 provide as follows:

33E-3. Bid-rigging. A person commits the offense of bid-rigging when he knowingly agrees with any person who is, or but for such agreement would be, a competitor of such person concerning any bid submitted or not submitted by such person or another to a unit of State or local government when with the intent that the bid submitted or not submitted will result in the award of a contract to such person or another and he either (1) provides such person or receives from another information concerning the price or other material term or terms of the bid which would otherwise not be disclosed to a competitor in an independent noncollusive submission of bids or (2) submits a bid that is of such a price or other material term or terms that he does not intend the bid to be accepted.

Bid rigging is a Class 3 felony. Any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation as provided in paragraph (2) of subsection (a) of Section 5-4 of this Code.

33E-4 Bid rotating. A person commits the offense of bid rotating when, pursuant to any collusive scheme or agreement with another, he engages in a pattern over time (which, for the purposes of this Section, shall include at least 3 contract bids within a period of 10 years, the most recent of which occurs after the effective date of this amendatory Act of 1988) of submitting sealed bids to units of State or local government with the intent that the award of such bids rotates, or is distributed among, persons or business entities which submit bids on a substantial number of the same contracts. Bid rotating is a Class 2 felony. Any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation as provided in paragraph (2) of subsection (a) **of Section 5-4 of this Code.**

Possible violations of Section 33 can be reported to the Office of the Will County State's Attorney at (815) 727-8453.

Scope of Work

Will County Community Health Center Call Center Suite

SECTION A: PROJECT SUMMARY

The Will County Community Health Center requires significant interior renovations on the lower level to accommodate the new Call Center Suite. The renovated space will feature six (6) new private offices and an open area for eight (8) new cubical work areas. Work required for this project will take place within a fully operational building. Therefore, installation of temporary partitions, sufficient to contain debris, dust and mitigate noise, along with the full scope of demolition, must occur between the hours of 6:00 PM and 6:00 AM. The remaining scope of work for this project can be performed from 7:00 AM to 4:00 PM. Operational areas within the building adjacent to the work area will be protected as required to avoid unintentional damage. These areas, including but not limited to corridors, vestibules, the elevator, etc. shall be always kept clear of debris and clean for the duration of the project. An experienced representative from the successful contractor shall be required to meet once per week with the County, Community Health Center personnel, and architect (date and time TBD).

SECTION B: POINTS OF CONTACT

Project Management Issues:

Mr. David Tkac
WC Capital Programming
304 N. Scott Street
Joliet, IL 60432
815-207-0774
dtkac@willcounty.gov

Project Management Issues:

Mr. Thomas Dolan
WC Capital Programming
304 N. Scott Street
Joliet, IL 60432
815-724-1629
tdolan@willcounty.gov

On-Site Coordination:

Mr. Tyler Bargas
WC Facilities
1106 Ella Avenue
Joliet, IL 60433
815-302-1750
tbargas@willcounty.gov

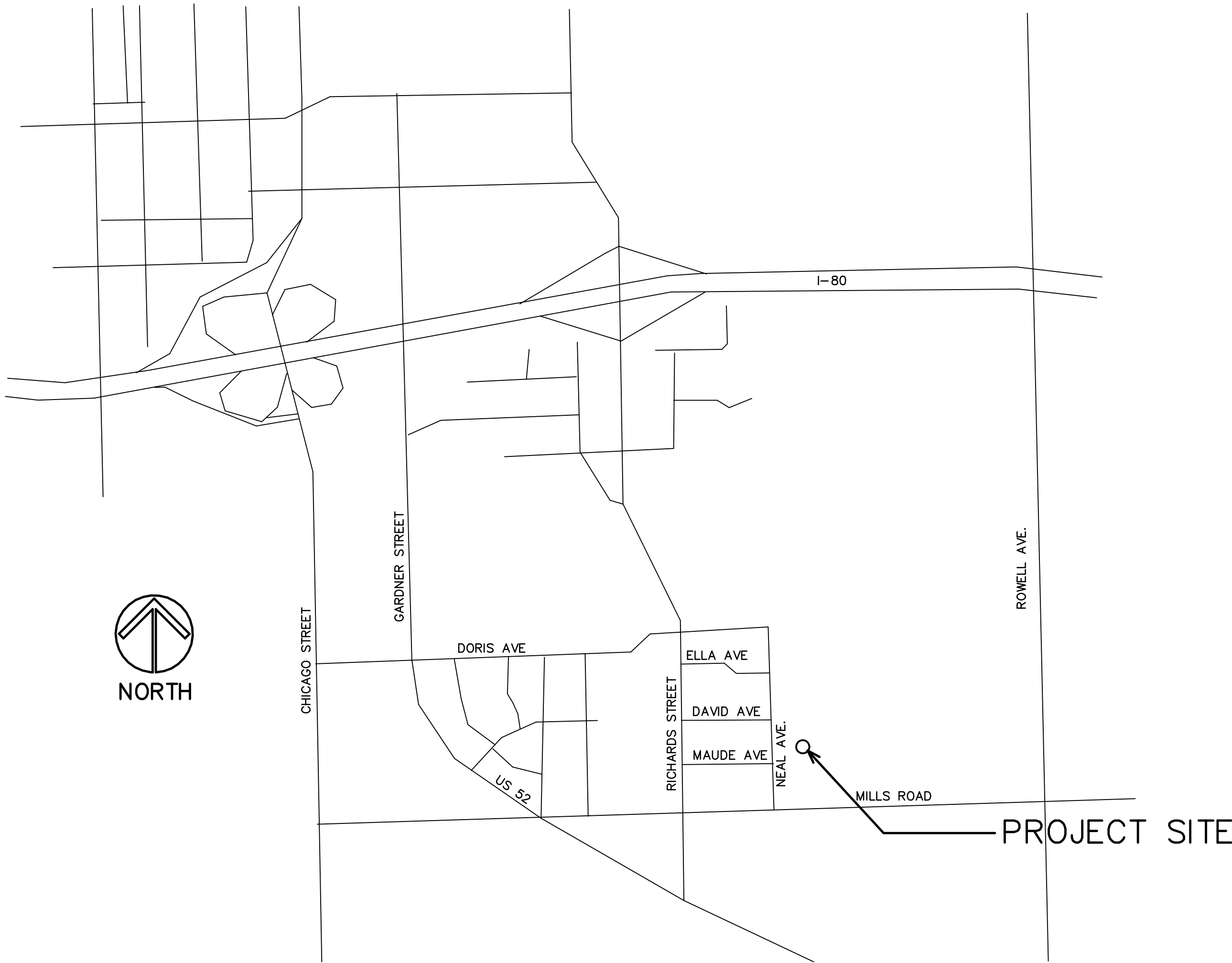
SECTION C: PLANS AND SPECIFICATIONS

Contractor shall furnish all labor, materials, equipment, tools, technology, safety requirements, supervision, overhead, general conditions and administrative actions necessary for successful completion of this project. The scope of work is defined within the project Plans and Specifications dated 5/17/2024, as follows:

D1, D2 Demolition, A1- A5 Floor Plans, Details, Specifications, FP1 Fire Protection Floor Plan, MD1 Mechanical Demolition, M1, M2 Mechanical Plans & Specifications, ED-1 Electrical Demolition, E1 – E7 Electrical Plans & Specifications

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LOCATION MAP



INDEX OF SHEETS

- T1 PROJECT TITLE, LOCATION, INDEX OF SHEETS
- D1 DEMO FLOOR PLAN
- D2 DEMO CEILING PLAN
- A1 FLOOR PLAN
- A2 REFLECTED CEILING PLAN
- A3 ROOM FINISH SCHEDULE, DOOR AND FRAME SCHEDULE, INTERIOR ELEVATIONS AND DETAILS
- A4 SPECIFICATIONS
- A5 SPECIFICATIONS
- FP1 FIRE PROTECTION FLOOR PLAN AND SPECIFICATIONS
- MD1 DEMOLITION FLOOR PLAN – MECHANICAL
- M1 FLOOR PLAN – MECHANICAL
- M2 HVAC SCHEDULES AND NOTES MECHANICAL SPECIFICATIONS
- ED1 DEMOLITION FLOOR PLAN – ELECTRICAL
- E1 FIRST FLOOR PLAN – ELECTRICAL LIGHTING
- E2 FIRST FLOOR PLAN – ELECTRICAL POWER
- E3 FIXTURE SCHEDULES, NOTES
- E4 PANEL SCHEDULE, SYMBOLS LIST
- E5 ELECTRICAL SPECIFICATIONS
- E6 ELECTRICAL SPECIFICATIONS
- E7 LOW VOLTAGE SPECIFICATIONS

CALL CENTER SUITE

WILL COUNTY COMMUNITY HEALTH CENTER
1106 NEAL AVENUE
JOLIET, ILLINOIS

STROMSLAND + DE YOUNG + PRYBYS
ARCHITECTURE GROUP

280 VETERANS PARKWAY
NEW LENOX, IL 60451
PHONE: 815-727-1311

stromsland + de young + prybys
ARCHITECTURE GROUP
280 Veterans Parkway - 201
New Lenox, Illinois 60451
815-727-1311
www.sdpagroup.com L.N.: 184-000437

CALL CENTER SUITE
WILL COUNTY COMMUNITY HEALTH CENTER
1106 NEAL AVE.
JOLIET, ILLINOIS

DATE: 5/17/2024
REVISED:

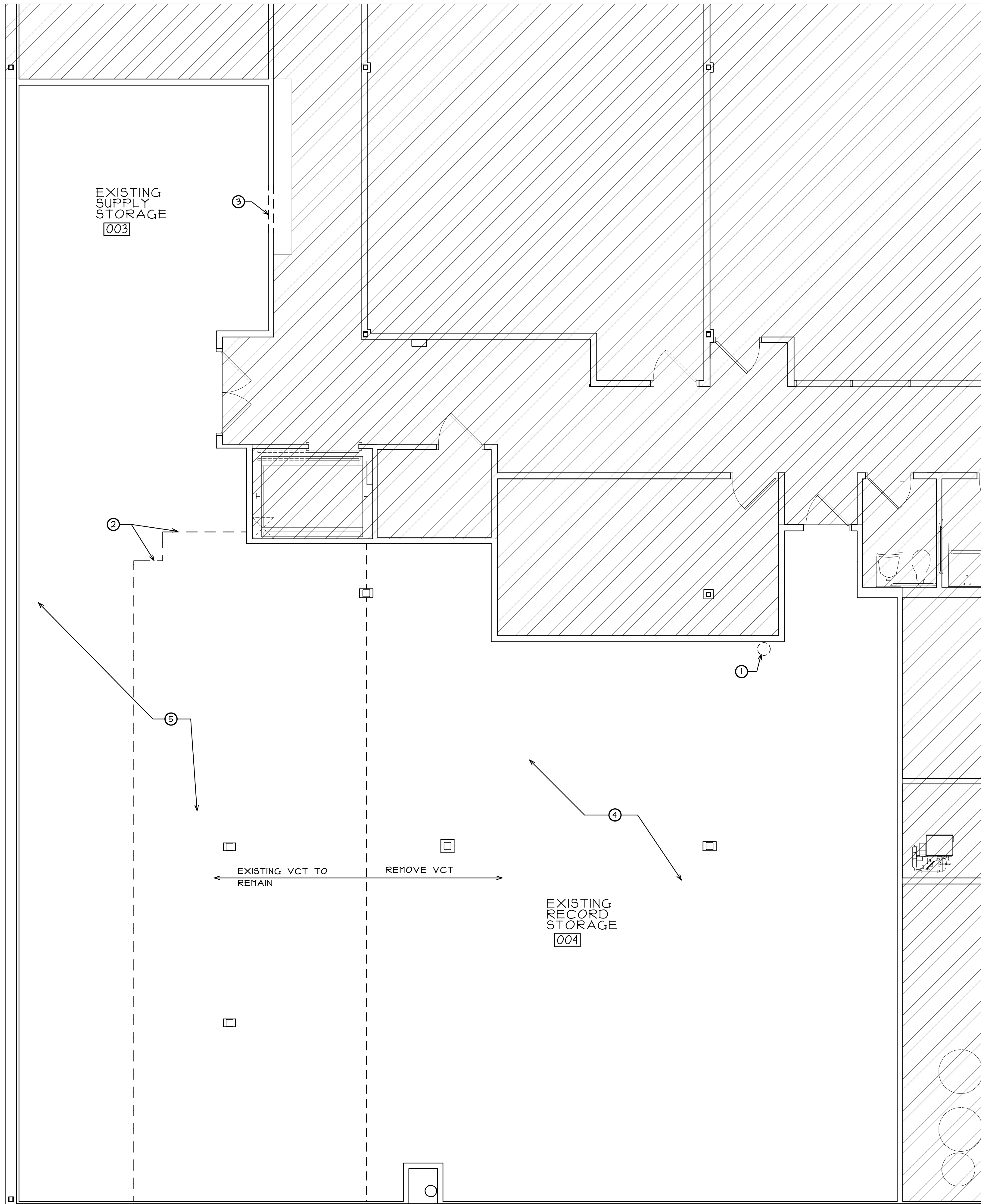
PROJECT NO.
2402-01

SHEET NUMBER

T1

OF 1 SHEETS

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DEMO FLOOR PLAN

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

DEMOLITION PLAN LEGEND

- HATCH DENOTES AREAS NOT INCLUDED IN PROJECT SCOPE.
- EXISTING WALLS TO REMAIN (TYPICAL)
- EXISTING METAL STUD AND GYPSUM BOARD WALL TO BE REMOVED COMPLETELY (UNLESS NOTED OTHERWISE) VERIFY IN FIELD
- EXISTING DOOR & FRAME TO REMAIN (TYPICAL)

DEMOLITION PLAN KEY NOTES

- EXISTING WALL HUNG FIRE EXTINGUISHER TO BE REMOVED AND SALVAGE TO OWNER. (V.I.F.)
- EXISTING CORRUGATED ROOFING WALL PARTITION AND STRUCTURE TO BE COMPLETELY REMOVED. (V.I.F.)
- REMOVE PORTION OF EXISTING GYPSUM BOARD AND METAL STUD WALL FOR NEW DOOR OPENING. (V.I.F.)
- PORTION OF EXISTING VCT FLOORING AND WALL BASE TO BE REMOVED UP TO LOCATION OF NEW WALL AND PREP SLAB FOR NEW FLOOR FINISH. (V.I.F.)
- PORTION OF EXISTING VCT FLOORING AND BASE TO REMAIN. PROVIDE PROTECTION DURING CONSTRUCTION (V.I.F.)

DEMOLITION PLAN GENERAL NOTES

- ALL SALVAGED ITEMS NOT REUSED SHALL BE PLACED IN STORAGE, ON SITE, AT A LOCATION DESIGNATED BY THE OWNER.
- ALL ITEMS REMOVED AND NOT SALVAGED SHALL BE PROPERLY DISPOSED OF OFF SITE BY THE CONTRACTOR.
- PATCH & REPAIR HOLES AND/OR DAMAGED SURFACES CAUSED TO ADJACENT CONSTRUCTION DURING DEMOLITION.
- VERIFY ANY ADDITIONAL DEMOLITION WORK REQUIRED FOR INSTALLATION OF DEVICES/EQUIPMENT SHOWN ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- REMOVE PORTIONS OF EXISTING GYPSUM BOARD AS REQUIRED TO INSTALL NEW ELECTRIC FEEDS, CABINET BLOCKING, ETC. COORDINATE WITH INSTALLING CONTRACTORS TO VERIFY EXACT LOCATIONS AND SIZES OF ALL REQUIRED CUTOUTS.
- REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR REMOVAL OF EQUIPMENT AND DEVICES IN WALLS BEING REMOVED.
- EXISTING MOVABLE SHELVES, FURNITURE AND EQUIPMENT TO BE REMOVED BY OWNERS STAFF. (U.N.O.)

CALL CENTER SUITE
WILL COUNTY COMMUNITY HEALTH CENTER
1106 NEAL AVE.
JOLIET, ILLINOIS

DATE: 5/17/2024
REVISED:

PROJECT NO.
2402-01

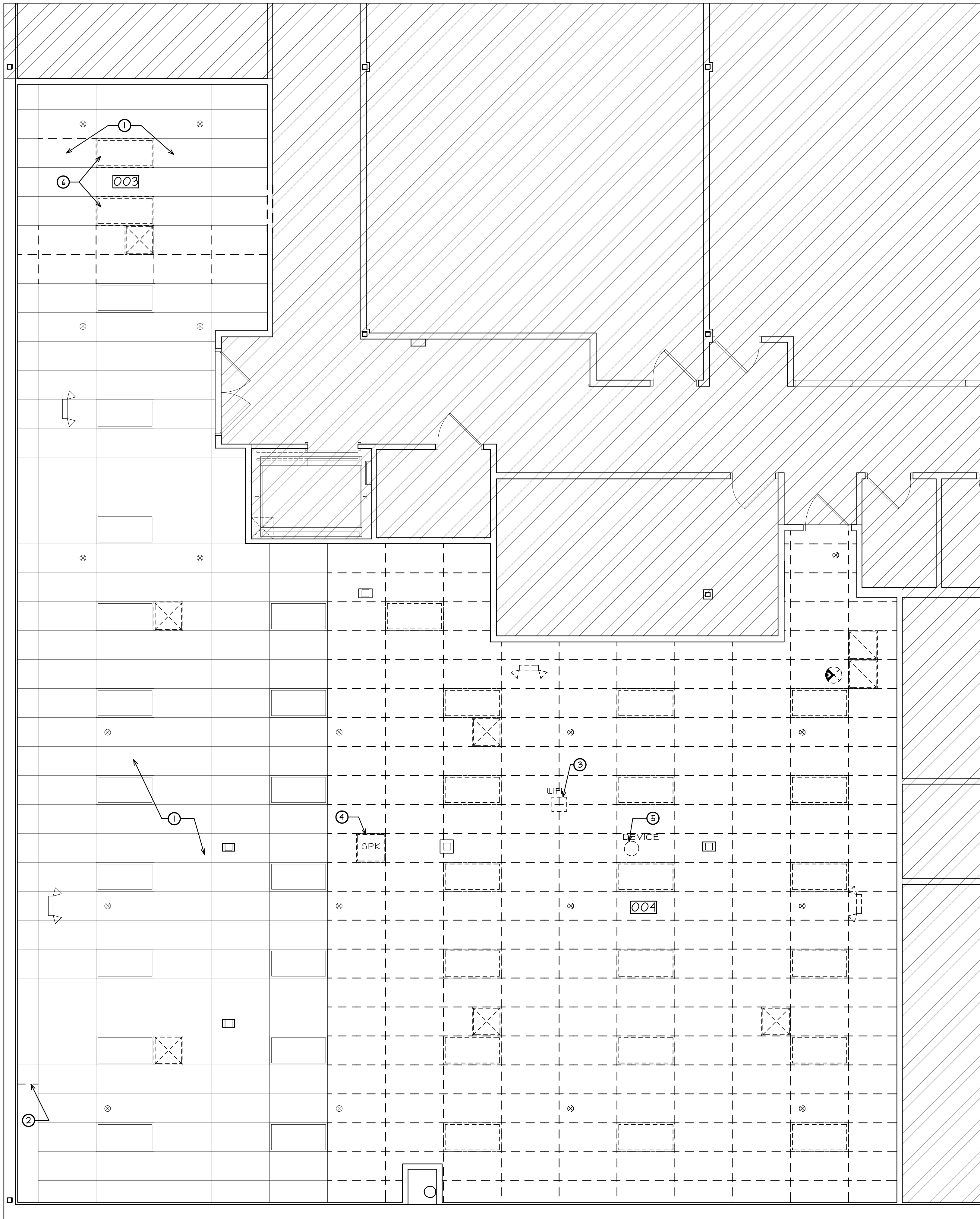
SHEET NUMBER

D1

OF 2 SHEETS

stromsland + de young + prybys
ARCHITECTURE GROUP
280 Veterans Parkway • 201
New Lenox, Illinois 60451
815-727-1311
www.sdpagroup.com
L.N.: 184-000437

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PARTIAL DEMO CEILING PLAN

SCALE: 1/4" 1'-0"

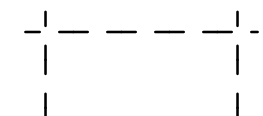
DEMOLITION CEILING PLAN LEGEND



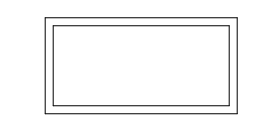
HATCH DENOTES AREAS NOT INCLUDED IN PROJECT SCOPE



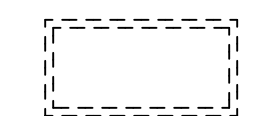
DENOTES EXISTING 2' X 4' ACOUSTICAL CEILING PANEL AND GRID SYSTEM TO REMAIN (I.N.O.)



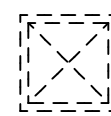
DENOTES EXISTING 2' X 4' ACOUSTICAL CEILING PANEL AND GRID SYSTEM TO BE REMOVED, CLEAN, UNDATED, AND PANELS TO BE SALVAGED FOR POSSIBLE REUSE. SEE DEMO KEY NOTES FOR ADDITIONAL INFORMATION



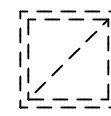
DENOTES EXISTING LAY-IN MOUNTED LIGHTING FIXTURE IN ACOUSTIC CEILING TO REMAIN



DENOTES EXISTING LAY-IN LIGHTING FIXTURE TO BE REMOVED - SEE ELECTRICAL DRAWINGS



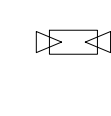
DENOTES EXISTING LAY-IN SUPPLY DIFFUSER TO BE REMOVED - SEE MECHANICAL DRAWINGS



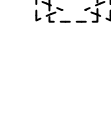
DENOTES EXISTING LAY-IN RETURN REGISTER TO BE REMOVED - SEE MECHANICAL DRAWINGS



DENOTES EXISTING CEILING MOUNTED EXIT SIGNAGE FIXTURE TO BE REMOVED - SEE ELECTRICAL DRAWINGS



DENOTES EXISTING SPRINKLER TO REMAIN.



DENOTES EXISTING CEILING MOUNTED EMERGENCY LIGHT FIXTURE TO REMAIN.



DENOTES EXISTING CEILING MOUNTED EMERGENCY LIGHT FIXTURE TO BE REMOVED.- SEE ELECTRICAL DRAWINGS

DEMO CEILING PLAN GENERAL NOTES

- ALL SALVAGED ITEMS NOT REUSED SHALL BE PLACED IN STORAGE, ON SITE, AT A LOCATION DESIGNATED BY THE OWNER.
- ALL ITEMS REMOVED AND NOT SALVAGED SHALL BE PROPERLY DISPOSED OF OFF SITE BY THE CONTRACTOR.
- PATCH & REPAIR HOLES AND/OR DAMAGED SURFACES CAUSED TO ADJACENT CONSTRUCTION DURING DEMOLITION.
- VERIFY ANY ADDITIONAL DEMOLITION WORK REQUIRED FOR INSTALLATION OF DEVICES/EQUIPMENT SHOWN ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR REMOVAL OF EQUIPMENT AND DEVICES IN CEILINGS BEING REMOVED.
- EXISTING DEVICES THAT ARE TO REMAIN ON CEILINGS WHERE EXISTING CEILING PANELS ARE REMOVED AND REPLACED DEVICES SHOULD BE REMOVED AND REINSTALLED AFTER NEW CEILING PANELS ARE INSTALLED. (V.I.F.)

DEMO CEILING PLAN KEY NOTES

- EXISTING CEILING PANELS TO BE REMOVED IN THIS ROOM TO REWORK HVAC AS NECESSARY AND SALVAGE CLEAN AND UNDATED PANELS FOR REINSTALL. EXISTING GRID TO REMAIN
- REMOVE PORTION OF EXISTING GRID BACK TO FULL PANEL FOR CEILING INFILL AT DRAIN PIPES ABOVE. (V.I.F.)
- EXISTING WIFI ACCESS POINT TO BE REMOVED AND REINSTALLED BY OWNERS IT STAFF. (V.I.F.)
- EXISTING IN CEILING SPEAKER TO BE REMOVED AND PROPERLY DISCONNECTED ABOVE CEILING AND SALVAGE TO OWNER. SEE ELECTRICAL DRAWINGS
- EXISTING CEILING MOUNTED EQUIPMENT TO BE REMOVED. SEE ELECTRICAL DRAWINGS
- EXISTING LIGHT FIXTURE TO BE SALVAGED AND RELOCATED. SEE REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS

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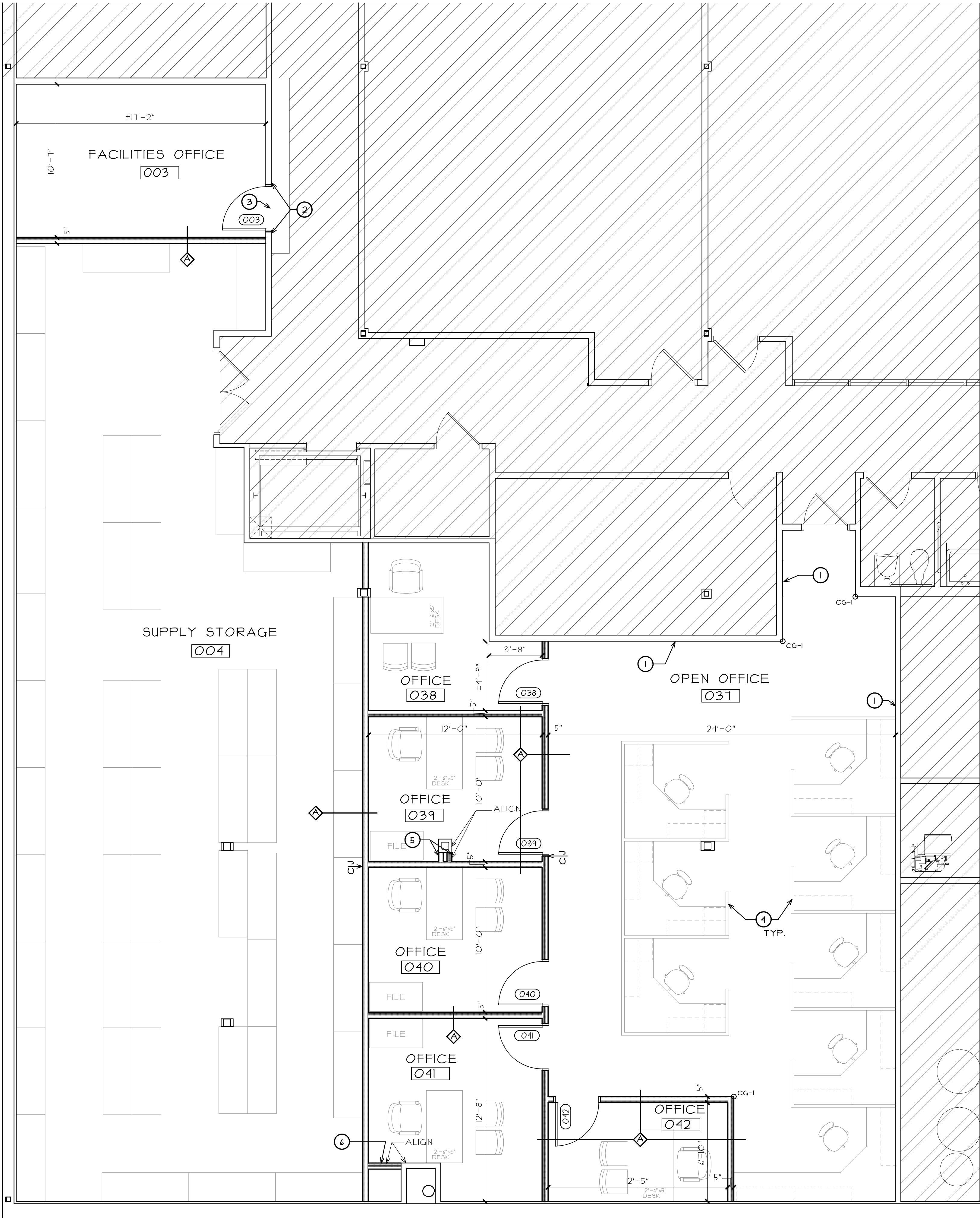
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PARTIAL NEW FLOOR PLAN
SCALE: 1/4" = 1'-0"
NORTH

FLOOR PLAN LEGEND

HATCH DENOTES AREAS NOT INCLUDED IN PROJECT SCOPE

DENOTES EXISTING PARTITIONS TO REMAIN (V.I.F.).

DENOTES NEW PARTITIONS, TYPE AS FOLLOWS:

DENOTES 3 5/8" METAL STUDS AT 16" O.C. WITH 3 1/2" SOUND BLANKET INSULATION IN ALL CAVITIES, AND ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE. RUN STUDS, INSULATION AND BOTH LAYERS OF GYPSUM BOARD FULL HEIGHT TO DECK ABOVE.

DENOTES EXISTING DOOR AND FRAME TO REMAIN (V.I.F.)

DENOTES NEW / RELOCATED / EXISTING DOOR AND/OR FRAME. SEE DOOR MARK IN DOOR AND FRAME SCHEDULE.

ALL CHANGES IN FLOOR FINISH MATERIAL OR COLOR ARE TO OCCUR UNDER CENTER OF DOOR/ OPENING OR AT LOCATIONS INDICATED. SEE ROOM FINISH SCHEDULE FOR FLOORING TYPE IN EACH ROOM.

NEW PLASTIC SURFACE MOUNTED CORNER GUARD. CORNER GUARD TO START AT TOP OF WALL BASE AND UP TO 4'-0" A.F.F. (SSM SERIES BY CONSTRUCTION SPECIALTIES OR APPROVED EQUAL)

PROVIDE CONTROL JOINT IN GYPSUM BOARD PARTITION AT LOCATIONS INDICATED, AND AT LOCATIONS RECOMMENDED BY THE MANUFACTURER AND INSTALLER. JOINTS TO BE FULL HEIGHT. SEE SPECIFICATIONS AND DETAIL 1 ON SHEET 'A1'.

GENERAL NOTES

- A. PATCH & REPAIR ALL EXISTING GYPSUM BOARD SURFACES TO "LIKE NEW" CONDITION PRIOR TO INSTALLING NEW FINISHES.

B. NEW M-E-P SERVICES IN EXISTING METAL AND GYPSUM BOARD WALLS MAY BE "FISHED DOWN" IF POSSIBLE, OR THE WALL IS TO BE CHANNEL CUT AND PATCHED WITH "LIKE" MATERIALS. COORDINATE WITH M-E-P TRADES.

C. PROVIDE ALL REQUIRED IN WALL BLOCKING FOR NEW/SALVAGED WALL HUNG EQUIPMENT. COORDINATE WITH OWNER FOR OWNER PROVIDED EQUIPMENT.

D. VERIFY ALL EXISTING DIMENSIONS IN FIELD AND REPORT ALL DISCREPANCIES PRIOR TO NEW CONSTRUCTION.
- E. FURNITURE IS SHOWN FOR REFERENCE ONLY (F.B.O.)

F. ALL PENETRATIONS (NEW AND EXISTING) OF SUSPENDED FLOOR SLABS SHALL BE SEALED WITH NONCOMBUSTIBLE MATERIAL TO PREVENT THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION.

G. PENETRATIONS (NEW AND EXISTING) OF FIRE RATED SUSPENDED FLOOR SLABS (VERIFY LOCATIONS) SHALL BE SEALED WITH AN APPROPRIATE U.L. LISTED THROUGH-WALL PENETRATION FIRESTOPPING SYSTEM RATED FOR 1-HOURS.

FLOOR PLAN KEY NOTES

- ① EXISTING WALL TO BE VERIFIED IF GYPSUM BOARD AND SOUND ATTENTION BLANKET GOES UP TO EXISTING DECK ABOVE BOTH SIDES. IF NOT EXTEND SOUND BATTS AND BOTH LAYERS OF GYPSUM BOARD (MATCH EXISTING THICKNESS) UP TO DECK ABOVE.

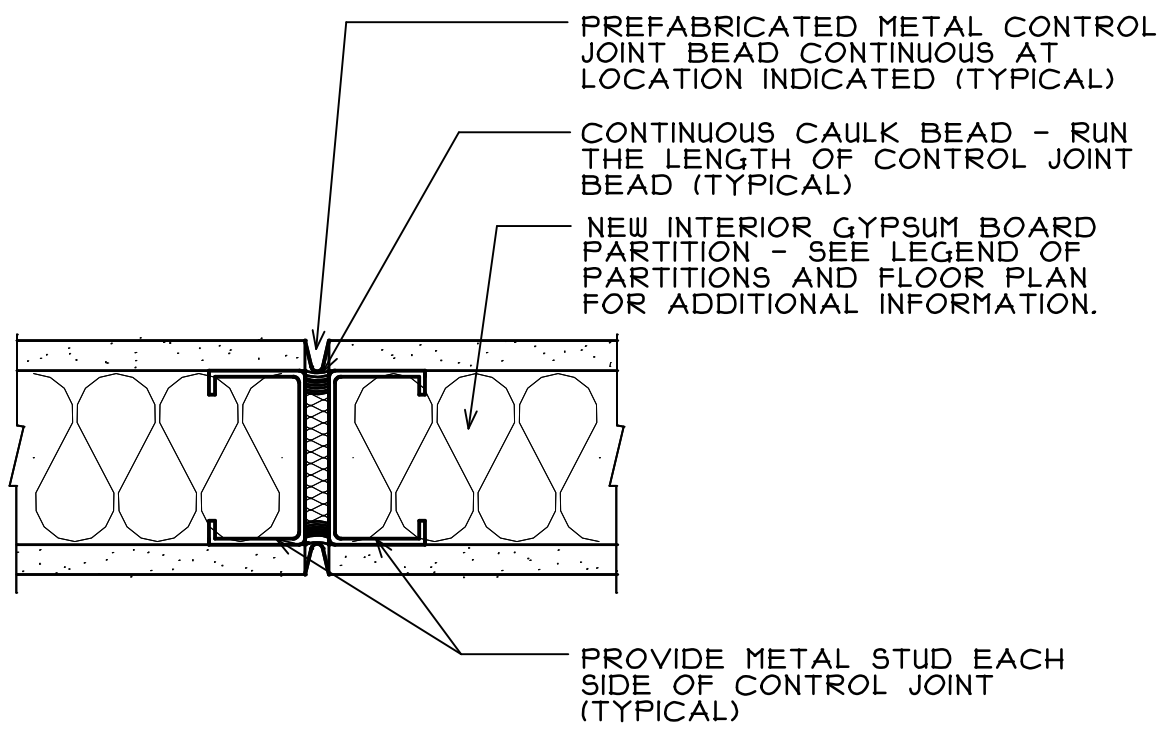
② PATCH BACK IN NEW MATCHING WALL BASE TO NEW DOOR FRAME.

③ PATCH IN NEW MATCHING VCT FLOORING AT NEW DOOR LOCATION. (COLOR TO MATCH CORRIDOR BORDER) VERIFY WITH OWNER FOR POSSIBLE ATTIC STOCK MATERIAL THAT MAY BE USED.

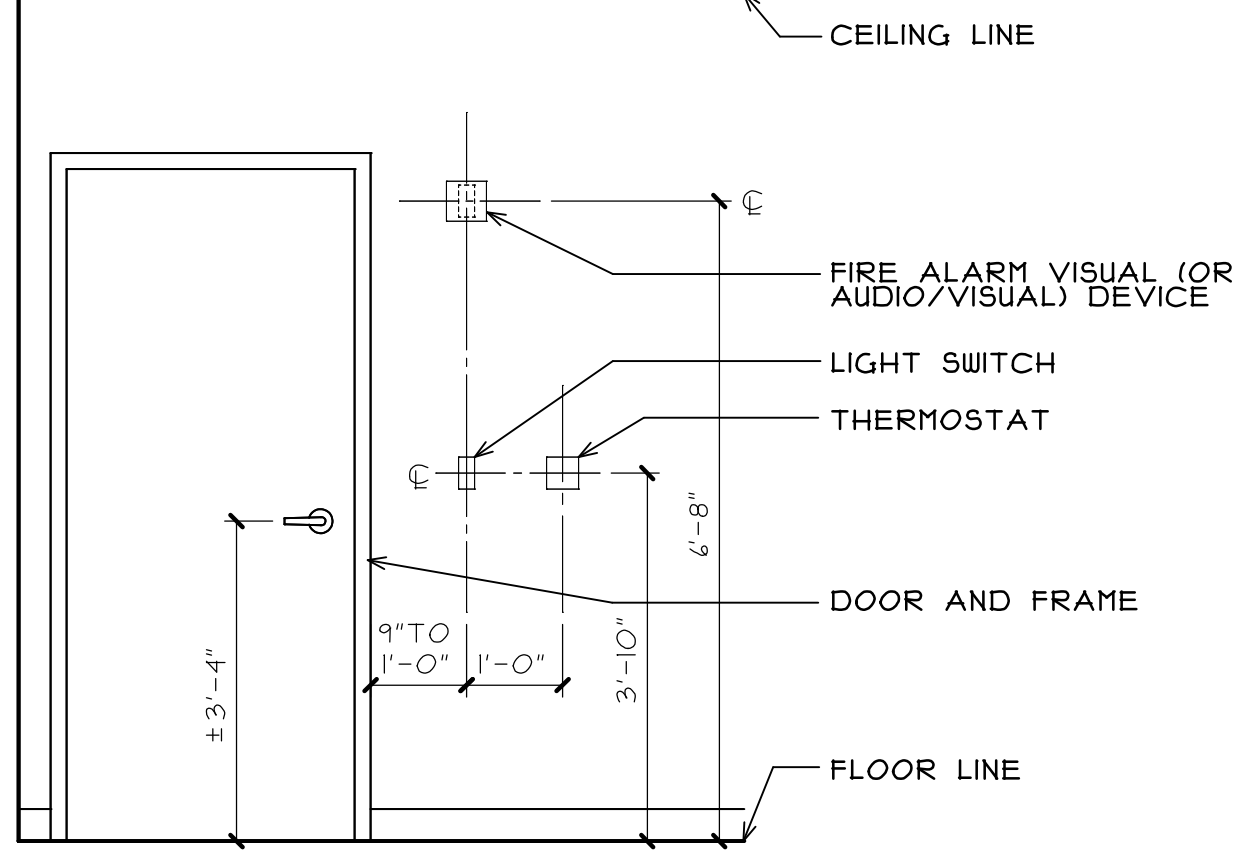
④ NEW CUBICLES SHOWN FOR REFERENCE ONLY. PROVIDED BY AND INSTALLED BY OWNERS FURNITURE VENDOR. (N.I.C.)

⑤ INFILL WALL BACK TO NEW WALL BEHIND COLUMN WITH "LIKE MATERIALS" AND TAPE IN FLUSH WITH SIDES OF COLUMN.

⑥ 3 5/8" METAL STUDS AT 16" O.C. WITH ONE LAYER OF 5/8" GYPSUM BOARD ON ROOM SIDE ONLY. RUN STUDS AND GYPSUM BOARD 6" ABOVE FINISHED CEILING.



DETAIL AT GYPSUM BOARD WALL CONTROL JOINT
SCALE: 3/8" = 1'-0"



TYPICAL DEVICE LOCATIONS
SCALE: 1/2" = 1'-0"

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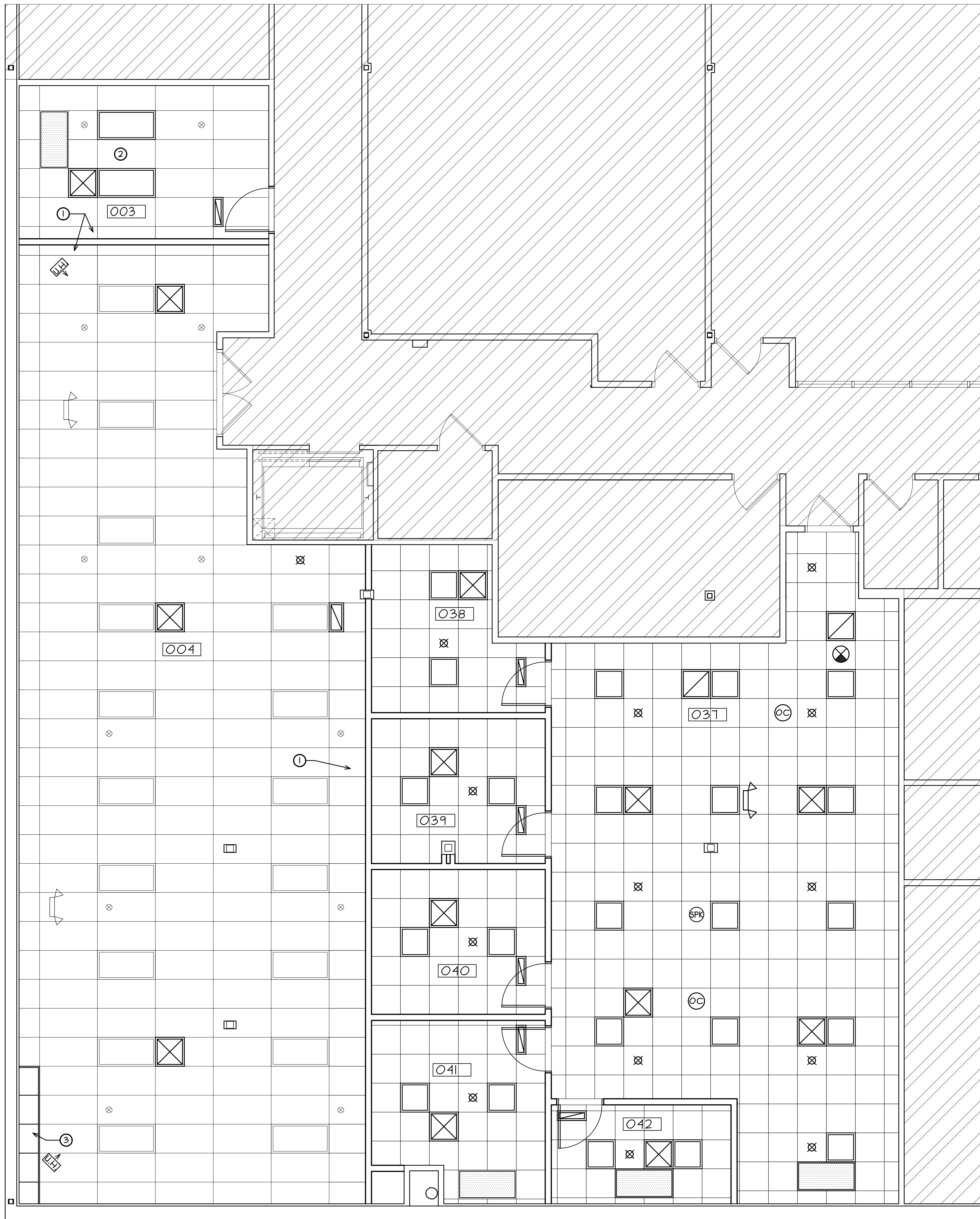
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PARTIAL NEW REFLECTED CEILING PLAN
SCALE: 1/4" 1'-0"

CEILING PLAN LEGEND

	HATCH DENOTES AREAS NOT INCLUDED IN PROJECT SCOPE		DENOTES NEW ELECTRIC UNIT HEATER. SEE MECHANICAL AND ELECTRICAL DRAWINGS
	DENOTES EXISTING SUSPENDED CEILING GRID SYSTEM (GRID AND PANELS) UNLESS NOTED OTHERWISE		DENOTES NEW LAY-IN RADIANT PANEL IN ACOUSTIC CEILING. SEE MECHANICAL AND ELECTRICAL DRAWINGS
	DENOTES NEW 2' X 2' SUSPENDED CEILING GRID SYSTEM. MATCH EXISTING GRID AND PANELS. COORDINATE WITH OWNER FOR BRAND AND TYPE.		DENOTES EXISTING EXIT SIGN TO REMAIN
	DENOTES EXISTING LAY-IN LIGHTING FIXTURE IN ACOUSTIC CEILING		DENOTES NEW CEILING MOUNTED EXIT SIGNAGE FIXTURE - MATCH EXISTING BUILDING STANDARD
	DENOTES NEW LOCATION FOR SALVAGED LAY-IN LIGHTING FIXTURE IN ACOUSTIC CEILING. SEE ELECTRICAL DRAWINGS		DENOTES EXISTING SPRINKLER HEAD TO REMAIN
	DENOTES NEW 2X2 LED LAY-IN LIGHTING FIXTURE IN ACOUSTIC CEILING. SEE ELECTRICAL DRAWINGS		DENOTES NEW SPRINKLER HEAD LOCATION. HEAD TO BE CENTERED IN CEILING PANELS IN BOTH DIRECTIONS - SEE FIRE PROTECTION DRAWINGS.
	DENOTES NEW LAY-IN SUPPLY DIFFUSER IN ACOUSTICAL CEILING - SEE MECHANICAL DRAWINGS.		DENOTES NEW CEILING MOUNTED OCCUPANCY SENSOR - SEE ELECTRICAL DRAWINGS.
	DENOTES NEW RETURN/EXHAUST REGISTER IN ACOUSTICAL/GYPSUM CEILING - SEE MECHANICAL DRAWINGS.		DENOTES PUBLIC ADDRESS (P.A.) SPEAKER. PROVIDED AND INSTALLED BY OTHERS.

CEILING PLAN GENERAL NOTES

- PATCH & REPAIR ALL EXISTING GYPSUM BOARD SURFACES TO "LIKE NEW" CONDITION PRIOR TO INSTALLING NEW FINISHES.
- CEILING GRID AND LAY-IN PANEL TYPES ARE INDICATED IN THE ROOM FINISH SCHEDULE FOR EACH ROOM.
- COORDINATE WITH AND ALLOW OWNER'S SEPARATE VENDORS ACCESS TO CEILING INTERSTITIAL SPACES FOR INSTALLATION OF WIRING AND EQUIPMENT PRIOR TO INSTALLING LAY IN CEILING PANELS.
- ALL GYPSUM BOARD SOFFITS, HEADERS, ETC. WITHIN THE WORK AREA ARE TO RECEIVE A NEW PAINT FINISH.
- PROVIDE NEW 2" WALL ANGLES AT CEILING GRID IN OFFICES TO MAINTAIN GRID PATTERN AND SPACING - COORDINATE WITH OWNER AND ARCHITECT IN FIELD PRIOR TO INSTALLATION (TYPICAL).

CEILING PLAN KEY NOTES

- INFILL EXISTING CEILING BACK TO NEW WALLS WITH SALVAGED GRID PIECES AND PANELS (HEIGHT TO MATCH EXISTING CEILING)
- REINSTALL SALVAGED LIGHT FIXTURES IN THIS ROOM IN NEW LOCATION. SEE ELECTRICAL DRAWINGS
- INFILL CEILING AT LOCATION OF EXISTING PIPES WITH NEW SALVAGED GRID PIECES AND PANELS. BOTTOM OF INFILL BE BE 6" BELOW ROOM CEILING HEIGHT. (V.I.F.)

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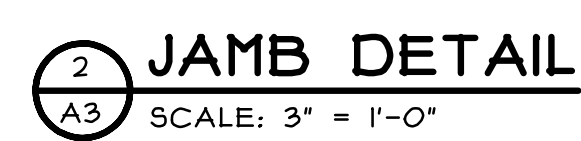
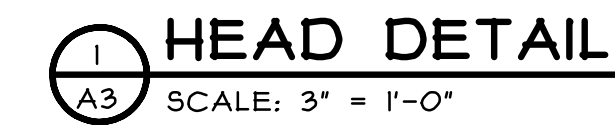
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ROOM FINISH SCHEDULE								
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	CEILING HT.	REMARKS	ROOM NO.
003	FACILITIES OFFICE	EX	EX	PNT-EGG	EX	EX	I,2	003
004	SUPPLY STORAGE	EX	EX	PNT-EGG	EX	EX	I,2	004
031	OPEN OFFICE	LVT	4" VINYL - COVERED	PNT-EGG	APC-I	EX		031
038	OFFICE	LVT	4" VINYL - COVERED	PNT-EGG	APC-I	9'-0"		038
039	OFFICE	LVT	4" VINYL - COVERED	PNT-EGG	APC-I	9'-0"		039
040	OFFICE	LVT	4" VINYL - COVERED	PNT-EGG	APC-I	9'-0"		040
041	OFFICE	LVT	4" VINYL - COVERED	PNT-EGG	APC-I	9'-0"		041
042	OFFICE	LVT	4" VINYL - COVERED	PNT-EGG	APC-I	9'-0"		042



DOOR AND FRAME SCHEDULE

MARK	LOCATION	SIZE	DOOR			FRAME			GLASS TYPE	LABEL	HARDWARE SET	DETAILS			REMARKS	MARK
			TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH				HEAD	JAMB	SILL		
003	FACILITIES OFFICE	3'-0" X 6'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS2	1/A3	2/A3	-	I	003
038	OFFICE	3'-0" X 6'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	038
039	OFFICE	3'-0" X 6'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	039
040	OFFICE	3'-0" X 6'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	040
041	OFFICE	3'-0" X 6'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	041
042	OFFICE	3'-0" X 6'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	042

SCHEDULE ABBREVIATIONS

HMTL HOLLOW METAL
PREFIN PREFINISHED

GENERAL NOTES

A. ALL WOOD DOORS TO BE FACTORY PREFINISHED PER SPECIFICATION 08146.

B. ALL HOLLOW METAL DOORS AND FRAMES TO BE FIELD PAINTED PER SPECIFICATION 091100.

C. PROVIDE WALL STOP FOR DOORS THAT OPEN 90 DEGREES, AND FLOOR STOP FOR DOORS THAT OPEN MORE THAN 90 DEGREES.

REMARKS NOTES

I. PROVIDE 1/2" CLEAR UNDERCUT ON NEW WOOD DOOR.

HARDWARE SETS

HS1: 3 HINGES - HAGER BBI219-4.5X4.5 US24D.
1 CYLINDRICAL OFFICE LOCK - SCHLAGE ND50PD-ATH 626.
1 WALL STOP - IVES WS406CCV.
3 DOOR SILENCERS - IVES SR64 GREY.

HS2: 3 HINGES - HAGER BBI219-4.5X4.5 US24D.
1 CYLINDRICAL STOREROOM LOCK - SCHLAGE ND80PD-OME 626.
1 DOOR CLOSER - LCN 4040XP-REGARM 689.
1 WALL / FLOOR STOP - IVES WS406CCV / FS441 US24D.
3 DOOR SILENCERS - IVES SR64 GREY.

DOOR AND FRAME TYPES

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

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SECTION 013300 - SUBMITTAL PROCEDURES

1.1 ACTION SUBMITTALS

- A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.

- Coordinate submittal schedule with list of subcontracts, the schedule of values, and Contractor's construction schedule.
- Final Submittal: Submit concurrently with the first complete submittal of Contractor's construction schedule.
 - Submit revised submittal schedule to reflect changes in current status and timing for submittals.
- Format: Arrange the following information in a tabular format:
 - Scheduled date for first submittal.
 - Specification Section number and title.
 - Submittal category: Action; informational.
 - Name of subcontractor.
 - Description of the Work covered.
 - Scheduled date for Architect's final release or approval.
 - Scheduled date of fabrication.
 - Scheduled dates for purchasing.
 - Scheduled dates for installation.

1.2 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

- A. Architect's Digital Data Files: Electronic digital data files of the Contract Drawings will not be provided by Architect for Contractor's use in preparing submittals.

- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.

- Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
- Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
- Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
- Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.

- Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

- C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows: Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.

- Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
- Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
- Resubmittal Review: Allow 15 days for review of each resubmittal.
- Sequential Review: Where sequential review of submittals by Architect's consultants, Owner, or other parties is indicated, allow 21 days for initial review of each submittal.

- D. Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows:

- Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
- Name file with submittal number or other unique identifier, including revision identifier.
 - File name shall use project identifier and Specification Section number followed by a decimal point and then a sequential number (e.g., LNHS-061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., LNHS-061000.01.A).
- Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Architect.
- Transmittal Form for Electronic Submittals: Use electronic form acceptable to the Architect, containing the following information:
 - Project name.
 - Date.
 - Name and address of Architect.
 - Name of Contractor.
 - Name of firm or entity that prepared submittal.
 - Names of subcontractor, manufacturer, and supplier.
 - Category and type of submittal.
 - Submittal purpose and description.
 - Specification Section number and title.
 - Drawing number and detail references, as appropriate.
 - Location(s) where product is to be installed, as appropriate.
 - Related physical samples submitted directly.
 - Indication of full or partial submittal.
 - Submittal and transmittal distribution record.
 - Other necessary identification.
 - Remarks.

- E. Options: Identify options requiring selection by Architect.

- F. Deviations and Additional Information: On an attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by Architect on previous submittals, and deviations from requirements in the Contract Documents, including minor variations and limitations. Include same identification information as related submittal.

- G. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.

- Note date and content of previous submittal.
- Note date and content of revision in label or title block and clearly indicate extent of revision.
- Resubmit submittals until they are marked with approval notation from Architect's action stamp.

- H. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.

- I. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's action stamp.

1.3 SUBMITTAL PROCEDURES

- A. General Submittal Procedure Requirements: Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.

- Submit electronic submittals via email as PDF electronic files.
 - Architect will return annotated file. Annotate and retain one copy of file as an electronic Project record document file.

- B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.

- If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data.
- Mark each copy of each submittal to show which products and options are applicable.
- Include the following information, as applicable:

- Manufacturer's catalog cuts.
- Manufacturer's product specifications.
- Standard color charts.
- Statement of compliance with specified referenced standards.
- Testing by recognized testing agency.
- Application of testing agency labels and seals.
- Notation of coordination requirements.
- Availability and delivery time information.

- For equipment, include the following in addition to the above, as applicable:

- Wiring diagrams showing factory-installed wiring.
- Printed performance curves.
- Operational range diagrams.
- Clearances required to other construction, if not indicated on accompanying Shop Drawings.

- Submit Product Data before or concurrent with Samples.
- Submit Product Data in the following format:

- PDF electronic file.
- One paper copy of Product Data unless otherwise indicated. Architect will not return copies.

- C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.

- Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:

- Identification of products.
- Schedules.
- Compliance with specified standards.
- Notation of coordination requirements.
- Notation of dimensions established by field measurement.
- Relationship and attachment to adjoining construction clearly indicated.
- Seal and signature of professional engineer if specified.

- Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches, but no larger than 24 by 36 inches.

- Submit Shop Drawings in the following format:

- PDF electronic file.
- One opaque (bond) copies of each submittal. Architect will not return copies.

- D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.

- Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
- Identification: Attach label on unexposed side of Samples that includes the following:

- Generic description of Sample.
- Product name and name of manufacturer.
- Sample source.
- Number and title of applicable Specification Section.
- Specification paragraph number and generic name of each item.

- For projects where electronic submittals are required, provide corresponding electronic submittal of Sample transmittal, digital image file illustrating Sample characteristics, and identification information for record.

- Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.

- Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
- Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.

- Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.

- Number of Samples: Submit two full set(s) of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.

- Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.

- Number of Samples: Submit three sets of Samples. Architect will retain two Sample sets; remainder will be returned. Mark up and retain one returned Sample set as a project record sample.

- Submit a single Sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to be demonstrated.
- If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three sets of paired units that show approximate limits of variations.

- E. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.

- F. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification and Procedure Qualification Record on AWS forms. Include names of firms and personnel certified.

- G. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.

- H. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.

- I. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.

1.4 DELEGATED-DESIGN SERVICES

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.

- If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.

- B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit digitally signed PDF electronic file and two paper copies of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.

- Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

1.5 CONTRACTOR'S REVIEW

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.

- B. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

1.6 ARCHITECT'S ACTION

- A. Action Submittals: Architect will review each submittal, make marks to indicate corrections or revisions required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action.

- B. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.

- C. Partial submittals prepared for a portion of the Work will be reviewed when use of partial submittals has received prior approval from Architect.

- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.

- E. Submittals not required by the Contract Documents may be returned by the Architect without action.

SECTION 016000 - PRODUCT REQUIREMENTS

1.1 ACTION SUBMITTALS

- A. Comparable Product Requests: Submit request for consideration of each comparable product. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.

- Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within one week of receipt of a comparable product request. Architect will notify Contractor of approval or rejection of proposed comparable product request within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.

- Form of Approval: As specified in Section 013300 "Submittal Procedures."
- Use product specified if Architect does not issue a decision on use of a comparable product request within time allocated.

- B. Basis-of-Design Product Specification Submittal: Comply with requirements in Section 013300 "Submittal Procedures." Show compliance with requirements.

1.2 QUALITY ASSURANCE

- A. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, select product compatible with products previously selected, even if previously selected products were also options.

1.3 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions.

- B. Delivery and Handling:

- Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
- Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
- Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
- Inspect products on delivery to determine compliance with the Contract Documents and to determine that products are undamaged and properly protected.

- C. Storage:

- Store products to allow for inspection and measurement of quantity or counting of units.
- Store materials in a manner that will not endanger Project structure.
- Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation.
- Protect foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment.
- Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
- Protect stored products from damage and liquids from freezing.

1.4 PRODUCT WARRANTIES

- A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.

- Manufacturer's Warranty: Written warranty furnished by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
- Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner.

- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.

- Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
- Specified Form: When specified forms are included with the Specifications, prepare a written document using indicated form properly executed.
- Refer to other Sections for specific content requirements and particular requirements for submitting special warranties.

1.5 PRODUCT SELECTION PROCEDURES

- A. General Product Requirements: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.

- Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
- Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
- Owner reserves the right to limit selection to products with warranties not in conflict with requirements of the Contract Documents.
- Where products are accompanied by the term "as selected," Architect will make selection.
- Descriptive, performance, and reference standard requirements in the Specifications establish salient characteristics of products.

- B. Product Selection Procedures:

- Product: Where Specifications name a single manufacturer and product, provide the named product that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
- Manufacturer/Source: Where Specifications name a single manufacturer or source, provide a product by the named manufacturer or source that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
- Products:

- Restricted List: Where Specifications include a list of names of both manufacturers and products, provide one of the products listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered unless otherwise indicated.
- Nonrestricted List: Where Specifications include a list of names of both available manufacturers and products, provide one of the products listed, or an unnamed product, that complies with requirements. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product.

- Manufacturers:
 - Restricted List: Where Specifications include a list of manufacturers' names, provide a product by one of the manufacturers listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered unless otherwise indicated.
 - Nonrestricted List: Where Specifications include a list of available manufacturers, provide a product by one of the manufacturers listed, or a product by an unnamed manufacturer, that complies with requirements. Comply with requirements in "Comparable Products" Article for consideration of an unnamed manufacturer's product.

- Basis-of-Design Product: Where Specifications name a product, or refer to a product indicated on Drawings, and include a list of manufacturers, provide the specified or indicated product or a comparable product by one of the other named manufacturers. Drawings and Specifications indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product by one of the other named manufacturers.

- C. Visual Matching Specification: Where Specifications require "match Architect's sample", provide a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches.

- D. Visual Selection Specification: Where Specifications include the phrase "as selected by Architect from manufacturer's full range" or similar phrase, select a product that complies with requirements. Architect will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

1.6 COMPARABLE PRODUCTS

- A. Conditions for Consideration: Architect will consider Contractor's request for comparable product when the following conditions are satisfied. If the following conditions are not satisfied, Architect may return requests without action, except to record noncompliance with these requirements:

- Evidence that the proposed product does not require revisions to the Contract Documents, that it is consistent with the Contract Documents and will produce the indicated results, and that it is compatible with other portions of the Work.
- Detailed comparison of significant qualities of proposed product with those named in the Specifications. Significant qualities include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
- Evidence that proposed product provides specified warranty.
- List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners, if requested.
- Samples, if requested.

SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY

1.1 MISCELLANEOUS LUMBER

- A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:

- Blocking.
- Nailers.

- B. For items of dimension lumber size, provide Construction or No. 2 grade lumber of any species.

1.2 FASTENERS

- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.

- B. Power-Driven Fasteners: NES NER-272.

- C. Screws for Fastening to Metal Framing: ASTM C 1002, length as recommended by screw manufacturer for material being fastened.

SECTION 079200 - JOINT SEALANTS

1.1 MATERIALS, GENERAL

- A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.

- B. Liquid-Applied Joint Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied joint sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.

- C. Colors of Exposed Joint Sealants: As indicated by manufacturer's designations.

1.2 LATEX JOINT SEALANTS

- A. Latex Joint Sealant LJS-1: Acrylic latex or siliconized acrylic latex, ASTM C 834, Type OP, Grade NF.

- Products: Subject to compliance with requirements, provide one of the following:

- BASF Building Systems; Sonolac.
- Beetle, Inc.; Chem-Calk 600.
- Pecora Corporation; AC-207.
- Tremco Incorporated; Tremflex 834.

1.3 ACOUSTICAL JOINT SEALANTS

- A. Acoustical Sealant for Exposed and Concealed Joints: Manufacturer's standard nonsag, paintable, nonstaining latex acoustical sealant complying with ASTM C834.

- Manufacturers: Subject to compliance with requirements, provide products by one of the following:

- GE Construction Sealants; Momentive Performance Materials Inc., RSC20
- Hilti, Inc; CP506.
- USG Corporation; Acoustical Sealant.
- Pecora Corporation; AIS-919.

1.4 JOINT SEALANT BACKING

- A. General: Provide sealant backings of material that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.

- B. Cylindrical Sealant Backings: ASTM C 1330, any types, as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.

- C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.

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CALL CENTER SUITE
WILL COUNTY COMMUNITY HEALTH CENTER
1106 NEAL AVE.
JOLIET, ILLINOIS

DATE: 5/17/2024
REVISED:

PROJECT NO.
2402-01

SHEET NUMBER

A4

OF 5 SHEETS

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1.5	MISCELLANEOUS MATERIALS	1.2	MANUFACTURERS	1.3	AUXILIARY MATERIALS	1.6	METAL EDGE MOLDINGS AND TRIM	SECTION 102600 – WALL AND DOOR PROTECTION	
A.	Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.	A.	Source Limitations: Obtain flush wood doors from single manufacturer.	A.	General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written instructions.	A.	Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that comply with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for exposed flanges of suspension-system runners.	1.1	QUALITY ASSURANCE
B.	Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.	1.3	FLUSH WOOD DOORS, GENERAL	B.	Steel Drill Screws: ASTM C 1002 unless otherwise indicated.			A.	Surface-Burning Characteristics: Provide impact-resistant, plastic wall protection units with surface-burning characteristics as determined by testing identical products per ASTM E 84, NFPA 255, or UL 723 by UL or another qualified testing agency.
C.	Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.	A.	Quality Standard: In addition to requirements specified, comply with AWI/AWMAC/WT's "Architectural Woodwork Standards."	1.	Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch thick.	1.	Edge moldings shall fit acoustical panel edge details and suspension systems indicated and match width and configuration of exposed runners unless otherwise indicated.	1.2	SHEET WALL COVERINGS
		1.	Provide labels and certificates from AWI certification program indicating that doors comply with requirements of grades specified.	C.	Sound-Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool.	2.	For circular penetrations of ceiling, provide edge moldings fabricated to diameter required to fit penetration exactly.	A.	Abuse-Resistant Sheet Wall Protection: Fabricated from rigid, plastic sheet wall-covering material.
1.6	JOINT-SEALANT SCHEDULE	2.	The Contract Documents contain requirements that are more stringent than the referenced quality standard. Comply with the Contract Documents in addition to those of the referenced quality standard.	1.4	APPLYING INTERIOR GYPSUM BOARD			1.	Products: Provide the following or approved equal:
A.	Joint-Sealant Application: Interior joints in vertical surfaces and horizontal nontraffic surfaces.	1.4	SOLID-CORE FIVE-PLY FLUSH WOOD VENEER-FACED DOORS FOR TRANSPARENT FINISH	A.	Install interior gypsum board in the following locations:	1.1	VINYL BASE	a.	"Acrovyn Solid Colors " as manufactured by Construction Specialties, Inc.
1.	Joint Locations:	A.	Interior Doors (at locations indicated):	1.	Type X: Vertical and horizontal surfaces unless otherwise indicated.	A.	Building Standard Product: Subject to compliance with requirements, provide the following:	2.	Size: 48 by 96 inches for sheet.
a.	Vertical joints on exposed surfaces of walls and partitions.	1.	Architectural Woodwork Standards Grade: Custom.	2.	Mold-Resistant Type: Area behind sinks unless otherwise indicated.	1.	Johnsonite, Toast, 283.	3.	Sheet Thickness: 0.040 inch.
b.	Perimeter joints between interior wall surfaces and frames of interior doors and windows.	2.	Faces: Single-ply wood veneer not less than 1/50 inch thick.	1.5	FINISHING GYPSUM BOARD	B.	Minimum Thickness: 0.375 inch.	4.	Pattern and Color: As selected by Owner from manufacturer's full range. Match existing
c.	Perimeter joints between interior wall surfaces and specialty items.	a.	Species: African Mahogany, Color and finish to match existing.	A.	General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.	C.	Height: 4 inches.	5.	Height: Wainscot, Match existing.
d.	Perimeter joints between interior wall surfaces and casework and countertops.	b.	Cut: Quarter sliced.	B.	Prefill open joints, rounded or beveled edges, and damaged surface areas.	D.	Lengths: Cut lengths 48 inches long.	6.	Trim and Joint Moldings: Extruded rigid plastic that matches sheet wall covering color. Provide wainscot trim, inside and outside corner trim, and vertical divider bars between sheets (for walls longer than 8-feet only).
e.	Other joints as indicated.	c.	Match between Veneer Leaves: Book match.	C.	Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.	E.	Outside Corners: Job formed.	7.	Mounting: Adhesive as recommended by impact-resistant plastic wall protection manufacturer.
2.	Joint Sealant: Latex LJS-1.	d.	Assembly of Veneer Leaves on Door Faces: Center-balance match.	D.	Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:	F.	Inside Corners: Job formed.	1.3	CORNER GAURDS
3.	Joint-Sealant Color: Manufacturer's standard white for field painting.	e.	Pair and Set Match: Provide for doors hung in same opening.	1.	Level 2: Ceiling plenum areas, concealed areas, and where indicated.	1.2	INSTALLATION MATERIALS	A.	See drawings for types.
B.	Joint-Sealant Application: Acoustical wall sealant interior joints in vertical surfaces nontraffic surfaces	3.	Exposed Vertical and Top Edges: Same species as faces or a compatible species - Architectural Woodwork Standards edge Type A.	2.	Level 4: At panel surfaces that will be exposed to view unless otherwise indicated.	A.	Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.	1.4	INSTALLATION
1.	Joint Sealant Location:	4.	Core for Non-Fire-Rated Doors:	SECTION 095113 - ACOUSTICAL PANEL CEILINGS		SECTION 096513 - RESILIENT BASE AND ACCESSORIES		A.	Installation Quality: Install wall and door protection according to manufacturer's written instructions, level, plumb, and true to line without distortions. Do not use materials with chips, cracks, voids, stains, or other defects that might be visible in the finished Work.
a.	Joints at bottom of new Type A walls.	a.	ANSI A208.1, Grade LD-1 or Grade LD-2 particleboard, made with binder containing no urea-formaldehyde.	1.1	MANUFACTURERS	1.1	LUXURY VINYL FLOOR TILE – LVT	B.	Mounting Heights: Install wall and protection in locations and at mounting heights indicated on Drawings.
b.	Penetrations in new Type A walls.	1)	Blocking: Provide wood blocking in particleboard-core doors as needed to eliminate through-bolting hardware.	A.	Source Limitations: Obtain each type of acoustical ceiling panel and its supporting suspension system from single source from single manufacturer.	1.	Gerflor; Creations 70, Wild Oak, 70-0359.	C.	Accessories: Provide splices, mounting hardware, anchors, trim, joint moldings, and other accessories required for a complete installation.
2.	Joint Sealant: Acoustic Sealant AJS-1.	5.	Construction: Five plies, hot-pressed bonded (vertical and horizontal edging is bonded to core), with entire unit abrasive planed before veneering.	1.2	PERFORMANCE REQUIREMENTS	1.2	INSTALLATION MATERIALS	1.	Provide anchoring devices and suitable locations to withstand imposed loads.
3.	Joint-Sealant Color: White.	SECTION 081213 - HOLLOW METAL FRAMES		A.	Seismic Performance: Suspended ceilings shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.	A.	Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by floor tile manufacturer for applications indicated.	2.	Where splices occur in horizontal runs of more than 20 feet, splice aluminum retainers and plastic covers at different locations along the run, but no closer than 12 inches apart.
		1.	Wood Species: Species compatible with door faces.	1.1	MANUFACTURERS	B.	Adhesives: Water-resistant type recommended by floor tile and adhesive manufacturers to suit floor tile and substrate conditions indicated.	END OF SPECIFICATIONS	
		2.	Profile: Flush rectangular beads with radiused corner.	A.	Source Limitations: Obtain each type of acoustical ceiling panel and its supporting suspension system from single source from single manufacturer.	1.	Flame-Spread Index: Class A according to ASTM E1264.	SECTION 099123 - INTERIOR PAINTING	
1.1	MANUFACTURERS	SECTION 092216 - NON-STRUCTURAL METAL FRAMING		1.2	PERFORMANCE REQUIREMENTS	2.	Smoke-Developed Index: 50 or less.	1.1	PAINT, GENERAL
A.	Manufacturers: Subject to compliance with requirements, provide products by one of the following:	1.1	PERFORMANCE REQUIREMENTS	A.	Horizontal Deflection: For wall assemblies, limited to 1/360 of the wall height based on horizontal loading of 5 lb/sq. ft.	1.3	ACOUSTICAL PANELS	A.	MPI Standards: Provide products that comply with MPI standards indicated and that are listed in its "MPI Approved Products List."
1.	Ceco Door; AADG, Inc.; ASSA ABLOY.	A.	Horizontal Deflection: For wall assemblies, limited to 1/360 of the wall height based on horizontal loading of 5 lb/sq. ft.	1.2	FRAMING SYSTEMS	A.	Manufacturers: Subject to compliance with requirements, provide products by one of the following:	B.	Material Compatibility:
2.	Curries, AADG, Inc.; ASSA ABLOY Group.	A.	Steel Studs and Tracks: ASTM C645. Use either conventional steel studs and tracks or embossed, high-strength steel studs and tracks of equivalent minimum base-metal thickness.	1.	Minimum Base-Metal Thickness: 0.0329 inch.	1.	Armstrong Ceiling & Wall Solutions.	1.	Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
3.	JR Metal Frames, Inc.	B.	Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.	2.	Depth: As indicated on Drawings.	2.	Certainited; SAINT-GOBAIN.	2.	For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
4.	Steelcraft; Allegion plc.	C.	Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.	1.	Minimum Base-Metal Thickness: 0.0329 inch.	3.	USG Corporation.	C.	Colors: Match existing. Coordinate with owner for building standard paint and color.
1.2	STANDARD STEEL FRAMES	1.3	INSTALLATION, GENERAL	1.	Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.	A.	Manufacturers: Subject to compliance with requirements, provide products by one of the following:	1.2	PREPARATION
A.	Construct hollow-metal frames to comply with standards indicated for materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances, and as specified.	A.	Installation Standard: ASTM C 754.	2.	Install framing and accessories plumb, square, and true to line, with connections securely fastened.	1.	Type and Form: Type III, mineral base with painted finish; Form 2, water felled.	A.	Comply with manufacturer's written instructions and recommendations in "MPI Manual" applicable to substrates indicated.
B.	Interior Frames: SDI A250.8..	B.	Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.	1.	Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.	2.	Pattern: CD (perforated, small holes and fissured).	B.	Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
1.	Materials: Uncoated steel sheet, minimum thickness of 0.053 inch.	D.	Install tracks at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts that penetrate partitions above ceiling.	2.	Other Framed Openings: Frame openings other than door openings the same as required for door openings unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.	D.	Color: White.	1.	After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
2.	Construction: Face welded.	E.	Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch from the plane formed by faces of adjacent framing.	1.	Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.	E.	Edge/Joint Detail: Square.	C.	Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
3.	Exposed Finish: Prime.	SECTION 081416 - FLUSH WOOD DOORS		2.	Install framing and accessories plumb, square, and true to line, with connections securely fastened.	F.	Thickness: 3/4 inch.	1.	Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
1.3	FRAME ANCHORS	1.1	WARRANTY	1.	Minimum Base-Metal Thickness: 0.0329 inch.	G.	Modular Size: 24 by 24 inches.	1.3	INTERIOR PAINTING SCHEDULE
A.	Jamb Anchors:	A.	Special Warranty: Manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.	1.3	INSTALLATION, GENERAL	1.4	METAL SUSPENSION SYSTEM	A.	Steel Substrates: Door frames and window frames.
1.	Type: Anchors of minimum size and type required by applicable door and frame standard, and suitable for performance level indicated.	1.	Failures include, but are not limited to, the following:	A.	Installation Standard: ASTM C 754.	A.	Metal Suspension-System Standard: Provide manufacturer's standard, direct-hung, metal suspension system and accessories according to ASTM C635/C635M and designated by type, structural classification, and finish indicated.	1.	Water-Based Light Industrial Coating System MPI INT 5.1B:
2.	Quantity: Minimum of three anchors per jamb, with one additional anchor for frames with no floor anchor. Provide one additional anchor for each 24 inches of frame height above 7 feet.	a.	Delamination of veneer.	1.	Gypsum Board, Type X: ASTM C 1396/C 1396M.	B.	Wide-Face, Capped, Double-Web, Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet; prepainted, electrolytically zinc coated, or hot-dip galvanized, G30 coating designation; with prefinished 15/16-inch-wide metal caps on flanges.	a.	Prime Coat: Primer, rust-inhibitive, water based, Low-odor/VOC, MPI #107,E3.
3.	Postinstalled Expansion Anchor: Minimum 3/8-inch-diameter bolts with expansion shields or inserts, with manufacturer's standard pipe spacer.	b.	Warping (bow, cup, or twist) more than 1/4 inch in a 42-by-84-inch section.	2.	Thickness: 5/8 inch.	1.	Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.	b.	Intermediate Coat: Light industrial coating, interior, water based, Low-odor/ VOC, matching topcoat.
B.	Material: ASTM A879/A879M, Commercial Steel (CS), 04Z coating designation; mill phosphatized.	c.	Telegraphing of core construction in face veneers exceeding 0.01 inch in a 3-inch span.	1.	Long Edges: Tapered.	2.	Other Framed Openings: Frame openings other than door openings the same as required for door openings unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.	c.	Topcoat: Light industrial coating, interior, water based, semi-gloss, Low-odor/VOC (MPI Gloss Level 5), MPI #153, E3.
1.	For anchors built into exterior walls, steel sheet complying with ASTM A1008/A1008M or ASTM A1011/A1011M; hot-dip galvanized according to ASTM A153/A153M, Class B.	2.	Warranty shall also include installation and finishing that may be required due to repair or replacement of defective doors.	1.2	TRIM ACCESSORIES	3.	Face Design: Flat, flush.		
1.4	MATERIALS	3.	Warranty Period for Hollow-Core Interior Doors: Two year(s) from date of Substantial Completion.	A.	Interior Trim: ASTM C 1047.	4.	Cap Material: Cold-rolled steel.		
A.	Cold-Rolled Steel Sheet: ASTM A1008/A1008M, Commercial Steel (CS), Type B; suitable for exposed applications.			1.	Material: Galvanized or aluminum-coated steel sheet or rolled zinc or paper-faced galvanized-steel sheet.	5.	Cap Finish: Painted white.		
B.	Hot-Rolled Steel Sheet: ASTM A1011/A1011M, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled.			2.	Shapes:	1.5	ACCESSORIES		
C.	Metallic-Coated Steel Sheet: ASTM A653/A653M, Commercial Steel (CS), Type B.			1.	Cornerbead.	A.	Attachment Devices: Size for five times the design load indicated in ASTM C635/C635M, Table 1, "Direct Hung," unless otherwise indicated. Comply with seismic design requirements.		
D.	Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A153/A153M.			2.	Expansion (Control) Joint.	B.	Wire Hangers, Braces, and Ties: Provide wires as follows:		
E.	Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hollow-metal frames of type indicated.					1.	Zinc-Coated, Carbon-Steel Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper.		
SECTION 081416 - FLUSH WOOD DOORS						2.	Size: Wire diameter sufficient for its stress at three times hanger design load (ASTM C635/C635M, Table 1, "Direct Hung") will be less than yield stress of wire, but not less than 0.106-inch- diameter wire.		
1.1	WARRANTY					C.	Seismic Clips: Manufacturer's standard seismic clips designed to secure acoustical panels in place during a seismic event.		
A.	Special Warranty: Manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.					D.	Seismic Stabilizer Bars: Manufacturer's standard perimeter stabilizers designed to accommodate seismic forces.		
1.	Failures include, but are not limited to, the following:								
a.	Delamination of veneer.								
b.	Warping (bow, cup, or twist) more than 1/4 inch in a 42-by-84-inch section.								
c.	Telegraphing of core construction in face veneers exceeding 0.01 inch in a 3-inch span.								
2.	Warranty shall also include installation and finishing that may be required due to repair or replacement of defective doors.								
3.	Warranty Period for Hollow-Core Interior Doors: Two year(s) from date of Substantial Completion.								

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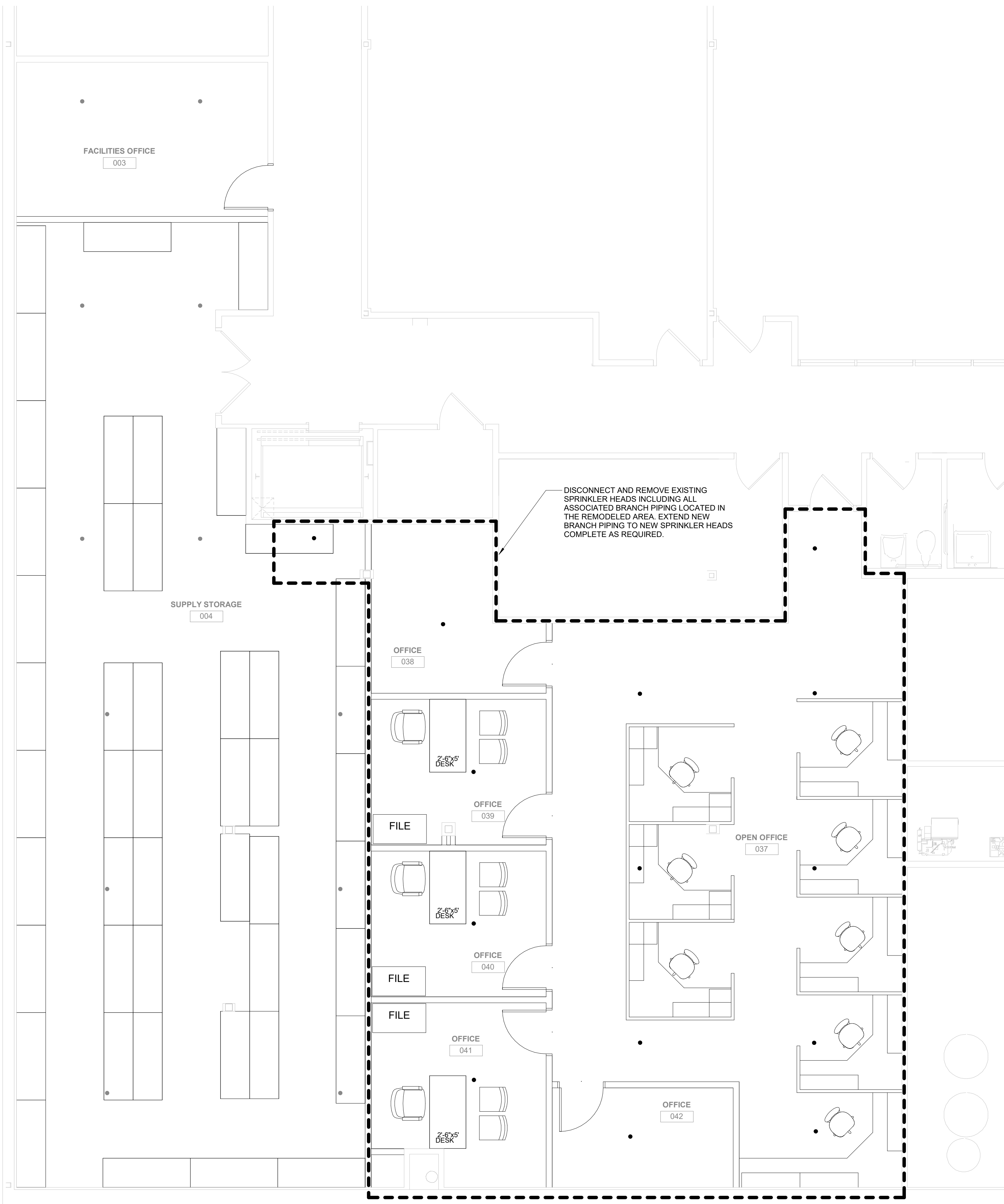
REVISED:

PROJECT NO. 2402-01

SHEET NUMBER

A5

OF 5 SHEETS



1 FIRE PROTECTION FLOOR PLAN
1/4" = 1'-0"

FIRE PROTECTING SPECIFICATION

- PART 1 - GENERAL**
- 1.1 IT IS THE PURPOSE AND INTENT OF THIS SPECIFICATION THAT THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIAL NECESSARY TO MODIFY THE EXISTING SPRINKLER SYSTEM IN THE RENOVATED AREA AND TO PROVIDE A COMPLETE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEM AS INDICATED ON THE DRAWINGS AND AS HEREINAFTER SPECIFIED COMPLETE IN ALL DETAILS INCLUDING ALL PARTS AUXILIARY TO THE WORK.
 - 1.2 THE DRAWINGS PERTAINING TO THE INSTALLATION INDICATE GENERALLY THE LOCATION OF ALL EQUIPMENT AND PIPING WITH DETAILS NECESSARY FOR THE COMPLETE INSTALLATION OF THE WORK. BIDDERS SHALL ACQUAINT THEMSELVES WITH WORKING CONDITIONS AND REQUIREMENTS OF THE ENTIRE PROJECT, AS ANY CONTRACT FOR THIS WORK WILL BE BASED UPON FURNISHING ALL LABOR AND MATERIALS REQUIRED TO ENTIRELY COMPLETE THE WORK READY FOR USE.
 - 1.3 MODIFY THE EXISTING AUTOMATIC SPRINKLER SYSTEM, INCLUDING:
 - A. DEMOLITION OF EXISTING SPRINKLER HEADS AND BRANCH PIPING BACK TO SPRINKLER MAIN PIPING IN THE RENOVATED AREA.
 - B. EXTEND NEW BRANCH SPRINKLER PIPING FROM EXISTING SPRINKLER MAIN PIPING COMPLETE WITH OVERHEAD PIPING, PIPE SUPPORTS, PIPE SLEEVES AND SPRINKLER HEADS.
 - C. TESTING OF ALL PIPING WORK AND NECESSARY CLEANING OF THE FIRE PROTECTION WORK.
 - 1.4 THE SPRINKLER SYSTEM SHALL BE DESIGNED TO DELIVER A DENSITY OF .10 GPM OVER THE MOST REMOTE 1500 SQ.FT., WITH ALLOWANCE FOR 100 GPM OUTSIDE HOSE STREAM. CALCULATIONS SHALL BE IN ACCORDANCE WITH THE LATEST NFPA #13 CHAPTER FOR LIGHT HAZARD.
 - 1.5 THE REMODELED AREA SHALL HAVE THE EXISTING SPRINKLER SYSTEM MODIFIED WITH NEW SPRINKLER HEADS DESIGNED TO DELIVER A DENSITY OF .10 GPM OVER THE MOST REMOTE 1500 SQ.FT. CALCULATIONS SHALL BE IN ACCORDANCE WITH THE LATEST NFPA #13 CHAPTER FOR LIGHT HAZARD.
 - 1.6 **WORK NOT INCLUDED:**
 - A. CERTAIN ITEMS NOT INCLUDED IN THIS DIVISION ARE AS FOLLOWS.
 - 1. FINISH PAINTING WORK.
 - 1.7 OBTAIN AND PAY FOR ALL LICENSES, PERMITS AND INSPECTIONS FOR ALL WORK COVERED BY THIS CONTRACT. ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER.
 - 1.8 THE ACCOMPANYING DRAWINGS SHOW THE SCHEMATIC LAYOUT FOR SPRINKLER HEAD LOCATIONS.
 - 1.9 ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, PAMPHLET #13 AND AUTHORITIES HAVING JURISDICTION.
 - 1.10 ALL WORK SHALL ALSO BE DONE IN STRICT ACCORDANCE WITH ALL RULES, REGULATIONS, LAWS, AND ORDINANCES OF LOCAL, CITY, COUNTRY, AND STATE AUTHORITIES.
 - 1.11 PREPARE SHOP DRAWINGS OF THE AUTOMATIC SPRINKLER WORK SHOWING THE ARRANGEMENT OF ALL AUTOMATIC SPRINKLER PIPING SPACING OF SPRINKLER HEADS, SIZE AND ELEVATIONS OF LINES ALL DETAILS OF THE SPRINKLER SYSTEM, SECTIONS WHERE REQUIRED, LIGHT FIXTURES, HEATING AND AIR CONDITIONING DUCTS AND DIFFUSERS.
 - 1.12 SUBMIT TO THE ARCHITECT FOR HIS REVIEW, FIVE (5) COPIES OF SHOP DRAWINGS, CATALOG CUTS AND DESCRIPTIVE MATTER REGARDING MATERIALS AND EQUIPMENT WHICH HE INTENDS TO FURNISH AND INSTALL.
 - 1.13 SUBMIT SIX (6) SETS OF THE FINAL DETAILED WORKING DRAWINGS TO THE STATE FIRE INSURANCE SERVICE OFFICE WITH THE REQUEST TO RETURN FIVE (5) APPROVED COPIES. THEY SHALL RETAIN ONE (1) SET OF DRAWINGS FOR THEIR FILE.
 - 1.14 SEND FIVE (5) COPIES OF THE CORRECTED CONSTRUCTION DRAWINGS WHICH HAVE BEEN EXAMINED AND APPROVED BY THE STATE ISO AND LOCAL FIRE CHIEF, TO THE ARCHITECT FOR HIS REVIEW.
 - 1.15 DO NOT PROCEED WITH INSTALLATION OF THE WORK UNTIL THE ARCHITECT HAS REVIEWED HIS SHOP DRAWINGS.
 - 1.16 COORDINATE WITH THE GENERAL CONSTRUCTION, PLUMBING, HEATING, AIR CONDITIONING, ELECTRICAL, AND REFRIGERATION WORK IN ORDER TO ELIMINATE THE POSSIBILITY OF INTERFERENCE OF THE FIRE PROTECTION WORK WITH OTHER WORK.
 - 1.17 FILE A LETTER GUARANTEEING THE AUTOMATIC SPRINKLER WORK EXECUTED UNDER THIS CONTRACT AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP, FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- PART 2 - EXISTING CONDITIONS**
- 2.1 VISIT SITE AND BECOME FULLY ACQUAINTED WITH THE CONDITIONS AT THE BUILDING SITE, AS CONTRACT FOR THIS WORK SHALL BE BASED UPON FURNISHING LABOR AND MATERIALS REQUIRED TO COMPLETE EACH INSTALLATION READY FOR CONTINUOUS AND SATISFACTORY OPERATION. CAREFULLY EXAMINE THE SITE TO APPRAISE AND BECOME FAMILIAR WITH EXISTING CONDITIONS SUCH AS LOCATIONS OF EXISTING SPRINKLER SYSTEM, FEATURES AFFECTING WORKING CONDITIONS, TRANSPORTATION, AND STORAGE FACILITIES. GIVE DUE CONSIDERATION TO SAME IN PREPARING PROPOSALS, AS NO EXCEPTIONS WILL BE CONSIDERED AFTER AWARDED THE CONTRACT, NOR WILL EXTRA COMPENSATION FOR WORK RESULTING FROM FAILURE TO VERIFY CONDITIONS AT THE SITE.
 - 2.2 BEFORE COMMENCING THE WORK, EXAMINE THE WORK OF OTHER TRADES AND REPORT AT ONCE DEFECT OR INTERFERENCE AFFECTING THE WORK UNDER THIS DIVISION OR THE GUARANTEE OF SAME. NO EXTRAS WILL BE ALLOWED ON ACCOUNT OF A CLAIM THAT THE EXTENT OF THE WORK OF THIS DIVISION WAS NOT FULLY UNDERSTOOD. ADJUST WORK TO FIT ACTUAL JOB CONDITIONS.
 - 2.3 PROVIDE DEMOLITION OF THE EXISTING SYSTEMS AS INDICATED ON THE CONTRACT DOCUMENTS AND AS REQUIRED TO COMPLETE THE INSTALLATION OF THE NEW WORK.
 - 2.4 EXISTING BRANCH PIPING, ETC. TO BE REMOVED SHALL BE TERMINATED AT THE MAIN IN AN APPROVED WATER TIGHT MANNER.
 - 2.5 VERIFY EXACT SIZE, LOCATION AND QUANTITIES OF DEMOLITION WORK IN FIELD.
 - 2.6 THE SCHEDULING OF THE DEMOLITION WORK SHALL BE COORDINATED, AND TEMPORARY MATERIALS AND/OR EQUIPMENT REQUIRED TO MAINTAIN BUILDING OPERATION SHALL BE PROVIDED AT NO ADDITIONAL COST.
- PART 3 - PRODUCTS**
- 3.1 SPRINKLER PIPING SHALL BE NEW, STANDARD WEIGHT MILD STEEL DESIGNED FOR 175 POUNDS WORKING PRESSURE, CONFORMING TO ASA B36-10 MANUFACTURED IN THE UNITED STATES. THE MANUFACTURER'S NAME AND BRANCH SHALL BE ON EACH LENGTH OF PIPE.
 - 3.2 SPRINKLER FITTINGS SHALL BE NEW, 125 POUNDS CAST IRON, SCREWED, CONFORMING TO ASA B16.4 MANUFACTURED IN THE UNITED STATES AND SPECIFICALLY APPROVED FOR USE IN AUTOMATIC SPRINKLER SYSTEMS.
 - 3.3 MECHANICAL PIPE COUPLINGS USED IN THE ASSEMBLY OF THE OVERHEAD SPRINKLER PIPING SHALL BE VICTAULIC FIRELOK, HAVING MALLEABLE IRON BODY, TYPE H MOLDED SYNTHETIC GASKET, AND STEEL NUTS AND BOLTS. PIPE GROOVING FOR ASSEMBLY WITH THE COUPLING SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - 3.4 ALL PIPING WILL BE INSTALLED IN A UNIFORM MANNER, DIRECT AS POSSIBLE. HORIZONTAL PIPING SHALL BE RUN AT RIGHT ANGLES AND SHALL NOT RUN DIAGONALLY ACROSS ROOMS. ALL PIPING SHALL BE ARRANGED TO PITCH BACK TO THE RISER, PITCHED 1/4" IN 10'-0". THE PIPING SHALL BE ARRANGED WITH DRAIN PLUGS OR VALVES AND PLUGS, AS REQUIRED TO PROVIDE MEANS FOR DRAINAGE OF TRAPPED PIPING.
 - 3.5 THE SPRINKLER MAIN AND BRANCH PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, USING ONLY APPROVED TYPE STEEL HANGERS, BRACKETS, ANCHORS, AND STUDS, OF SIZE AND NUMBER IN ACCORD WITH THE RECOMMENDATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION. THE HANGERS AND SUPPORTS SHALL BE
 - 3.6 THE SPRINKLER HEADS SHALL BE OF APPROVED STANDARD DESIGN WITH NOMINAL 1/2" DISCHARGE ORIFICE, UPRIGHT, PENDANT AND CONCEALED AS SHOWN ON THE DRAWINGS. SPRINKLER HEADS IN ALL AREAS WITH FINISHED CEILINGS SHALL BE RELIABLE MODEL G-4 "THE CONCEALER" CONCEALED SPRINKLER HEAD. ALL OTHER AREAS SHALL BE BRONZE. EXPOSED SPRINKLER IN ALL AREAS WITH LESS THAN 7'-0" HEADROOM SHALL BE INSTALLED CLOSE TO CEILING WITH SPRINKLER HEADS PENDANT.
 - 3.7 SPRINKLER CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) SPRINKLER CABINET (WALL MOUNTED UP 4'-0") (AS PER NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLET NO. 13) WITH FOUR (4) ADDITIONAL HEADS (EACH) OF THE TYPES USED ON THE JOB, TOGETHER WITH NECESSARY WRENCHES TO MAKE EMERGENCY CHANGES OF ALL TYPES OF HEADS USED.
- PART 4 - EXECUTION**
- 4.1 EMPLOY ON THE JOB AT ALL TIMES, A COMPETENT SUPERINTENDENT WHO SHALL BE RESPONSIBLE FOR THE PROGRESS AND EXECUTION OF THE WORK. WORKMANSHIP SHALL BE OF HIGH QUALITY CONFORMING TO STANDARD PRACTICE AS STIPULATED BY NFPA, ASTM, AND ASA RECOMMENDATIONS, BY SKILLED WORKMEN DURING THEIR REGULAR WORKING HOURS.
 - 4.2 THE AUTOMATIC SPRINKLER PIPING SHALL BE TESTED UNDER A HYDROSTATIC PRESSURE OF NOT LESS THAN 200 POUNDS, PSIG, FOR A DURATION OF NOT LESS THAN TWO (2) HOURS.
 - 4.3 THE PIPING SUBJECTED TO THE HYDROSTATIC TEST SHALL BE FILLED WITH WATER AND THOROUGHLY CHECKED FOR THE ELIMINATION OF ALL AIR. ALL JOINTS SHALL BE PROVEN TIGHT OR ACCEPTABLE BY THE TESTS. DEFECTIVE WORK OR MATERIALS SHALL BE CORRECTED OR REPLACED IN AN APPROVED MANNER. TESTS SHALL BE REPEATED UNTIL THE PARTICULAR LINE OR SYSTEM RECEIVES THE APPROVAL OF THE REPRESENTATIVES OF THE ARCHITECT.
 - 4.4 BE RESPONSIBLE DURING THE INSTALLATION AND TESTING PERIODS FOR THE AUTOMATIC SPRINKLER WORK, FOR ANY DAMAGE TO THE WORK OF OTHERS, TO THE BUILDING, AND PROPERTY/MATERIALS OF OTHERS CAUSED BY LEAKS IN AUTOMATIC SPRINKLER EQUIPMENT, UNPLUGGED OR DISCONNECTED PIPES OR FITTINGS, AND SHALL PAY FOR NECESSARY REPLACEMENT OR REPAIR OF WORK OR ITEMS SO DAMAGED.

SYMBOLS & ABBREVIATIONS LIST

- EX. CONCEALED TYPE SPRINKLER HEAD WITH WHITE COVER PLATE
- NEW CONCEALED TYPE SPRINKLER HEAD WITH WHITE COVER PLATE



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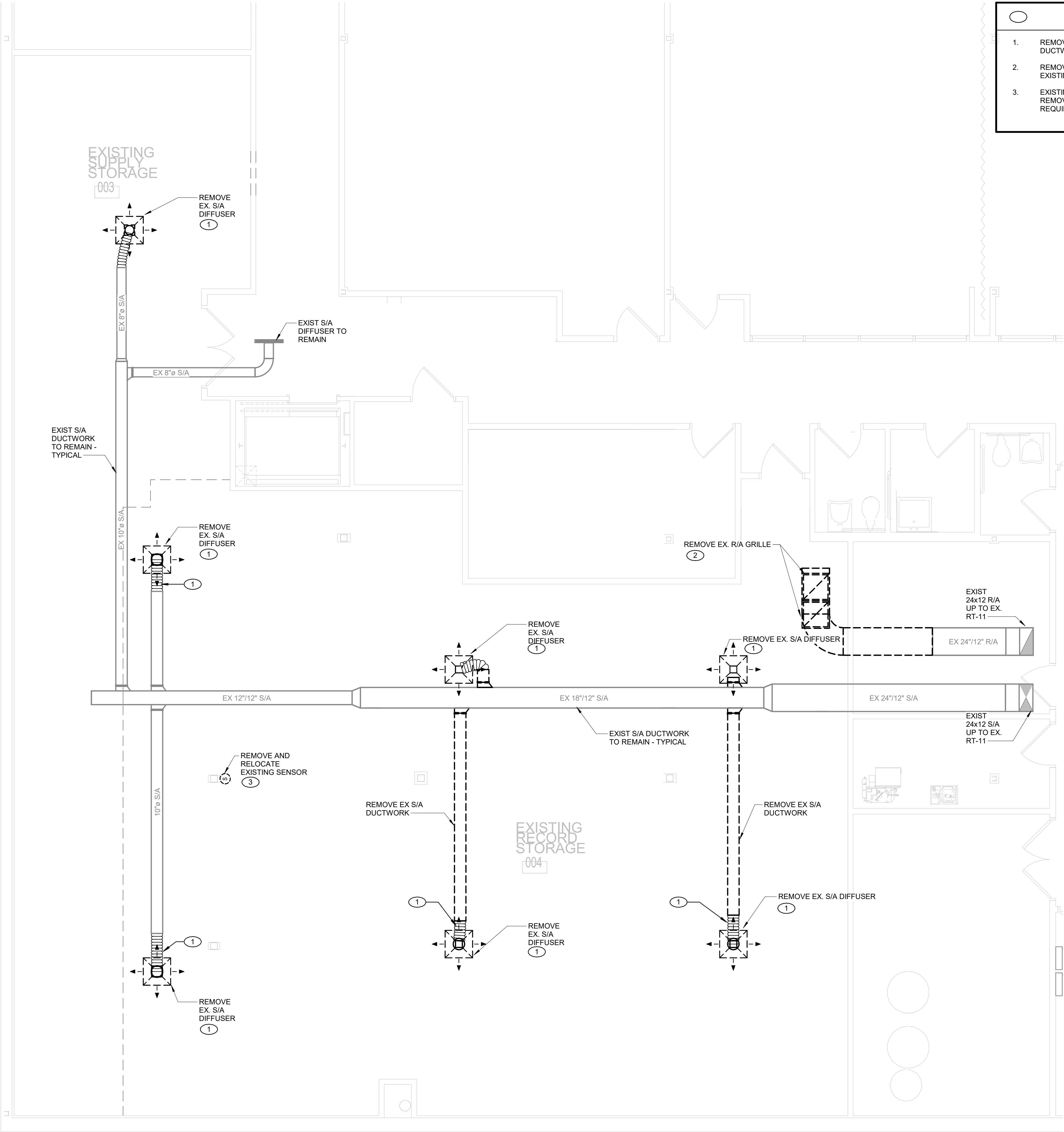
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OF SHEETS



- SHEET NOTES
1.

REMOVE EXISTING SUPPLE AIR DIFFUSER AND ASSOCIATED DUCTWORK COMPLETE AS REQUIRED.
2.

REMOVE EXISTING RETURN AIR GRILLE AND PORTION OF EXISTING DUCTWORK COMPLETE AS REQUIRED.
3.

EXISTING SENSOR TO BE REMOVED AND RELOCATED. REMOVE EXISTING CONTROL WIRING COMPLETE AS REQUIRED.

1

MECHANICAL HVAC DEMOLITION PLAN

1/4" = 1'-0"



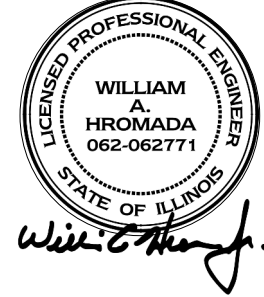
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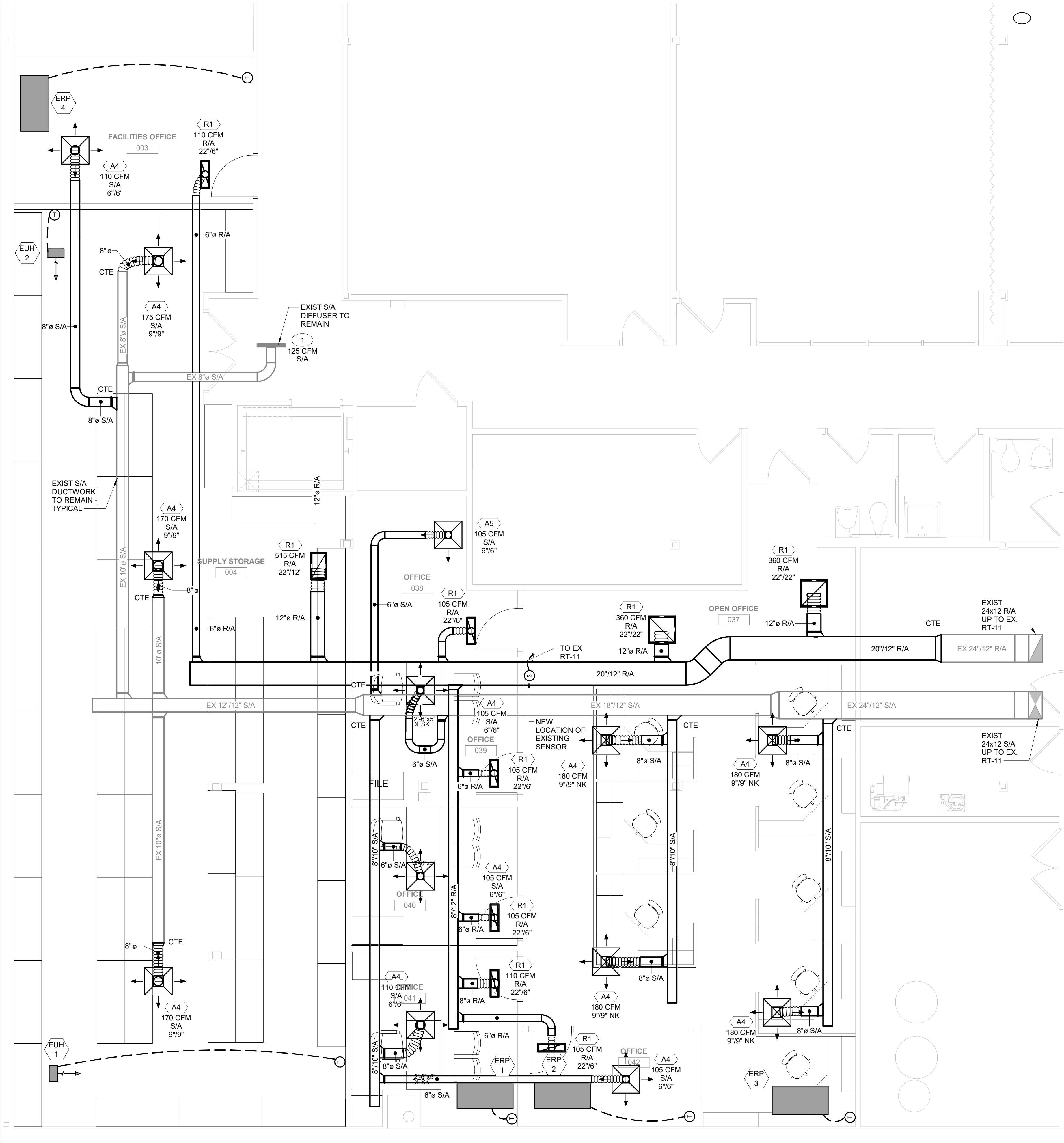
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- SHEET NOTES
1.

EXISTING ROOFTOP UNIT LOCATED ABOVE SECOND FLOOR. CLEAN, LUBRICATE AND CHECK EXISTING UNIT FOR PROPER OPERATION AND SUBMIT REPORT FOR ANY UNIT DEFICIENCIES. CHANGE FILTERS AND PROVIDE NEW BELTS. BALANCE UNIT TO SUPPLY AIR AND MINIMUM OUTSIDE AIR VALUES INDICATED.
2.

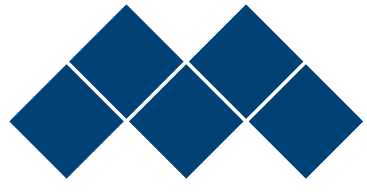
EXISTING SUPPLY AIR DIFFUSER TO REMAIN. INSPECT AND CLEAN EXISTING DIFFUSER COMPLETE AS REQUIRED. BALANCE EXISTING SUPPLY AIR DIFFUSER TO AIRFLOW QUANTITY INDICATED ON PLAN.

EXISTING RT-11
EXISTING 5 TON UNIT
BALANCE TO: 2000 CFM S/A 500 CFM OAI
1

1

MECHANICAL HVAC FLOOR PLAN

1/4" = 1'-0"



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MECHANICAL SPECIFICATIONS

PART 1 - GENERAL

1.1 FURNISH AND INSTALL ALL LABOR AND MATERIALS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF ALL MECHANICAL SERVICES AND SYSTEMS INDICATED AND AS MAY BE REQUIRED TO MAKE THE WORK COMPLETE FOR THE PURPOSE INTENDED. LAYOUTS SHOWN ARE DIAGRAMMATIC - INSTALL DUCTWORK, PIPING AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS.

1.2 BIDDING REQUIREMENTS: VISIT SITE PRIOR TO BIDDING TO BECOME FULLY ACQUAINTED WITH ALL FIELD CONDITIONS AND TO DETERMINE FULL EXTENT OF WORK REQUIRED. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. ANY ITEMS NOT SPECIFICALLY INDICATED ON DRAWINGS THAT ARE IN CONFLICT WITH CONTRACT WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID FOR A DECISION. BIDDERS SHALL ACQUAINT THEMSELVES WITH THE WORKING CONDITIONS AND REQUIREMENTS OF THE ENTIRE PROJECT. AS ANY CONTRACT FOR THIS WORK WILL BE BASED UPON FURNISHING ALL LABOR AND MATERIALS REQUIRED TO ENTIRELY COMPLETE WORK READY FOR USE.

1.3 CODES: ALL WORK SHALL COMPLY WITH LOCAL, MUNICIPAL, STATE HVAC CODES. ALL MATERIALS SHALL BE IN COMPLIANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS.

1.4 OBTAIN AND PAY FOR ALL LICENSES, PERMITS AND INSPECTIONS FOR ALL WORK REQUIRED. ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER.

1.5 SHOP DRAWINGS TO BE SUBMITTED (SIX COPIES) FOR ALL EQUIPMENT, DUCTWORK AND PIPING LAYOUTS WITHIN 14 DAYS OF CONTRACT AWARDDING FOR REVIEW. ANY MINOR CHANGES IN LOCATION OF EQUIPMENT, PIPING OR DUCTWORK FROM THOSE SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT CHARGE IF SO DIRECTED BY THE ARCHITECT BEFORE INSTALLATION.

1.6 SCHEDULE ALL WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES. ALL REQUIRED SHUTDOWN OF EXISTING UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL. NOTIFY OWNER'S REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO ANY SHUTDOWN OF EXISTING SYSTEMS.

1.7 TEMPORARY SERVICES ARE TO BE PROVIDED TO MAINTAIN OPERATION OF FACILITY DURING THE PHASING OF WORK, INCLUDING TEMPORARY PIPING, DUCTWORK AND UTILITY SERVICES.

1.8 OWNER TRAINING IN THE PROPER OPERATION, MAINTENANCE AND SERVICING OF ALL SYSTEMS IS TO BE PROVIDED. PROVIDE IN A BOUND FORM TWO (2) SETS OF OPERATIONS, MAINTENANCE AND INSTRUCTION MANUALS, INCLUDING INFORMATION ON SPARE PARTS, LUBRICATION SCHEDULE, WIRING DIAGRAMS, ETC., FOR ALL MATERIALS AND EQUIPMENT. PROVIDE TWO (2) SETS OF ACCURATELY MARKED "AS BUILT" PRINTS, ELECTRONIC FILE OF AS-BUILTS, AND TWO COPIES OF TRAINING SESSION VIDEO (DVD FORMAT).

1.9 WARRANTY ANY DEFECTS TO ALL EQUIPMENT, MATERIALS AND LABOR FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING BY THE ARCHITECT AND ENGINEER (FIVE YEARS FOR REFRIGERATION COMPRESSORS - PARTS AND LABOR). DEFECTIVE EQUIPMENT AND MATERIALS SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER. GUARANTEE THAT ALL WORKMANSHIP IS OF HIGH QUALITY AND THAT ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT FULFILLS THE REQUIREMENTS OF THE SPECIFICATIONS. CONDUIT, AT NO COST TO THE OWNER, CAPACITY TESTS ON ANY EQUIPMENT FURNISHED BY HIM WHEN SO REQUESTED BY THE ARCHITECT OR HIS REPRESENTATIVE WITHIN THE ONE YEAR PERIOD.

PART 2 - AIR DISTRIBUTION SYSTEMS

2.1 DUCTWORK TO BE GALVANIZED SHEETMETAL FABRICATED ACCORDING TO SMACNA'S DUCT CONSTRUCTION STANDARDS (LATEST EDITION). UTILIZE PITTSBURGH LOCK SEAMS FOR ALL LONGITUDINAL SEAMS (NO EXCEPTIONS). SEAL ALL JOINTS AND SEAMS FOR AN AIRTIGHT INSTALLATION. EXPOSED DUCTWORK AND SHEETMETAL PANS IN FINISHED AREAS ARE TO BE PROVIDED WITH PAINT-GRIP READY FOR PRIMING AND PAINTING. ALL EXPOSED ROUND DUCTWORK TO BE SPIRAL TYPE DUCTWORK AND FITTINGS.

2.2 ROUND DUCTS: SPIROSAFE LINE OF SELF-SEALING ROUND SPIRAL DUCT AND FITTINGS AS MANUFACTURED BY LINDAB, INC. SHALL BE USED. THE DUCTWORK SYSTEM IS TO HAVE FACTORY INSTALLED DOUBLE-LIPPED GASKETS RATED TO OPERATE BETWEEN -20 F. AND 212 F. AND THAT MEETS SMACNA LEAKAGE CLASS 3 INTEGRITY FROM -20 IN WG TO +12 IN. WG WITHOUT USE OF CAULKING OR SEALANTS. THE DUCTWORK SYSTEM IS TO HAVE ROLLED OVER EDGES. WHERE ROUND DUCTWORK IS SPECIFIED TO BE LINED, THE SPIROSAFE DOUBLE WALL DUCTWORK AND FITTINGS WITH PERFORATED INNER LINER IS TO BE USED. SPIROSAFE DUCTWORK AND FITTINGS ARE TO BE CLEANED BY THE CONTRACTOR READY FOR PAINTING IN LIEU OF PAINT GRIP SPECIFIED.

2.2 FLEXIBLE DUCTWORK TO BE EQUIVALENT TO THERMAFLEX MODEL MKE AND SHALL BE UL LABELED FOR USE IN RETURN AIR PLENUM. FLEXIBLE DUCTWORK MAY BE USED TO THE INLET OF REGISTERS, GRILLES AND DIFFUSERS AND TO BE 5'-0" MAXIMUM LENGTH, SUPPORTED WHERE REQUIRED TO PREVENT MOVEMENT.

2.3 DUCTWORK INSULATION: SUPPLY, RETURN AIR AND OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 1-1/2" THICK FIBERGLASS INSULATION WITH FRK VAPOR BARRIER. ALL INSTALLATION, TAPES, MASTICS, ETC. TO BE AS PER INSULATION MANUFACTURER'S RECOMMENDATIONS.

2.4 REGISTERS, GRILLES AND DIFFUSERS TO BE EQUIVALENT TO AS SCHEDULED ON DRAWINGS AND TO BE AS MANUFACTURED BY CARNES, METALAIRE, PRICE, NAILOR, TITUS AND KRUEGER. VERIFY CEILING STYLES AND TYPES BEFORE ORDERING REGISTERS, GRILLES AND DIFFUSERS. PROVIDE APPROPRIATE FRAME STYLES AS REQUIRED TO MATCH CEILING STYLE AND TYPES.

PART 3 - HVAC EQUIPMENT

3.1 HVAC EQUIPMENT SHALL BE TESTED, RATED AND CERTIFIED AS COMPLETE UNIT IN ACCORDANCE WITH A.R.I. AND A.G.A. FOR CAPACITIES AND SOUND RATINGS AND BE U.L. LISTED. EQUIPMENT TO MEET ASHRAE 90.1 GUIDELINES.

3.2 ELECTRIC RADIANT HEATING PANELS TO BE EQUIVALENT TO AS SCHEDULED ON DRAWINGS AND TO BE AS MANUFACTURED BY QMARK, INDEECO, OR MARLEY. INACTIVE FACE OF PANEL SHALL BE INSULATED.

3.3 ELECTRIC CABINET HEATERS TO BE EQUIVALENT TO AS SCHEDULED ON DRAWINGS AND TO BE AS MANUFACTURED BY QMARK, TRANE, OR MARLEY. CABINET HEATERS TO HAVE INTEGRAL THERMOSTAT.

PART 4 - TEMPERATURE CONTROLS

5.1 PROVIDE ALL CONTROLS AND CONTROL WIRING REQUIRED FOR CONTROL AND INTERLOCK OF ALL HVAC EQUIPMENT AS PER MANUFACTURER'S RECOMMENDATIONS. CONTROL WIRING DIAGRAMS AND COMPONENTS SHALL BE FURNISHED BY EQUIPMENT MANUFACTURER WHERE APPLICABLE. INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND NATIONAL CODE. ALL WIRING SHALL BE IN 1/2" METALLIC CONDUIT.

5.2 SENSORS: REMOTE TEMPERATURE SENSORS SHALL BE RELOCATED AS INDICATED ON THE CONTRACT DOCUMENTS. PROVIDE ALL CONTROL WIRING TO INTERLOC REMOTE TEMPERATURE SENSORS TO EXISTING REMOTE THERMOSTAT.

5.3 ELECTRIC CABINET HEATER:

A. CABINET HEATERS TO BE CONTROLLED BY A THERMOSTAT INTEGRAL TO THE UNIT.

B. UNIT FAN SHALL BE CYCLED ON BY THE THERMOSTAT TO MAINTAIN SPACE TEMPERATURE SETPOINTS.

5.4 ELECTRIC HEATING CEILING PANELS:

C. CEILING PANELS TO BE CONTROLLED BY A REMOTE THERMOSTAT.

D. CEILING PANEL SHALL BE CYCLED ON BY THE THERMOSTAT TO MAINTAIN SPACE TEMPERATURE SETPOINTS.

PART 6 - TESTING AND BALANCING

6.1 TEST, ADJUST AND BALANCE ALL AIR AND WATER SYSTEMS TO VALUES INDICATED ON PLANS AND AS REQUIRED AS PER TABB AND NEBB GUIDELINES. TESTING AND BALANCING TO BE DONE BY ONE OF THE FOLLOWING COMPANIES:

A. AARON ENGINEERING SERVICES
5420 W. ROOSEVELT RD.
CHICAGO, IL 60644

B. MECHANICAL TEST & BALANCE
P.O. BOX 1383
BOLINGBROOK, IL 60440

C. CONTROLLED ENVIRONMENT TESTING & BALANCING
1350 REMINGTON ROAD
SCHAUMBURG, IL 60173

6.2 REGULATE AND ADJUST ALL FANS AND BALANCING DAMPERS FOR THE REQUIRED AIR QUANTITIES OF ALL FAN SYSTEMS AND FOR ALL RESPECTIVE AIR OPENINGS. THIS SHALL INCLUDE SETTING UP DAMPER POSITION FOR MINIMUM OUTSIDE DAMPERS. MARK POSITION OF DAMPERS INDICATING FINAL BALANCE POSITIONS.

6.3 SUBMIT SIX (6) COPIES OF FINAL CERTIFIED TEST READINGS WITH THE FOLLOWING INFORMATION:

A. CFM QUANTITY, STATIC PRESSURE, FAN RPM, MOTOR AMPERAGE, ETC. FOR ALL SUPPLY, RETURN AND EXHAUST FAN SYSTEMS

B. CFM QUANTITY FOR ALL SUPPLY AIR, RETURN AIR, OUTSIDE AIR AND EXHAUST AIR OPENING/DEVICE FOR ALL AIR SYSTEMS

6.4 WHERE MODIFICATIONS ARE BEING MADE TO EXISTING AIR SYSTEMS, TEST EXISTING FANS PRIOR TO STARTING WORK AND SUBMIT A PRELIMINARY TEST AND BALANCE REPROT FOR REVIEW. TESTING AND BALANCING NEW WORK AND INCREASE/DECREASE THE FLOW RATE OF THE EXISTING FANS AS REQUIRED FOR THE NEW MODIFICATIONS. MAINTAIN EXISTING FLOW RATES FOR EXISTING PORTIONS OF AIR SYSTEMS.

PART 7 - WORK IN EXISTING BUILDINGS

7.1 REMOVE ALL EXISTING CEILINGS REQUIRED FOR INSTALLATION OF NEW WORK. CONTRACTOR IS TO REINSTALL CEILING UPON COMPLETION OF WORK. REPLACE ALL DAMAGED CEILING MATERIALS TO MATCH EXISTING.

7.3 ALL EXISTING, DUCTWORK, ETC., SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK. ALL EXISTING EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER AND OWNER SHALL DETERMINE IF CONTRACTOR IS TO STORE EQUIPMENT ON SITE AT OWNER SELECTED LOCATION OR IF CONTRACTOR IS TO ABANDON OR REMOVE EQUIPMENT FROM SITE.

7.4 REMOVED DUCTWORK IS TO BE TERMINATED PROPERLY BACK TO EXISTING MAINS. PATCH AND SEAL EXISTING DUCTWORK AIRTIGHT. NO DUCTWORK, SUPPORTS, HANGERS, OR EQUIPMENT IS TO BE LEFT ABANDONED. VERIFY LOCATION AND ELEVATION OF EXISTING TO BE REMOVED IN FIELD. PATCH ALL EXISTING WALL, AND CEILING OPENINGS RESULTING FROM REMOVAL OF EXISTING MATERIALS AND EQUIPMENT AND PROVIDE FINISH THAT WILL MATCH EXISTING IN SURROUNDING AREAS. OPENINGS IN MASONRY WALLS RESULTING FROM REMOVED THERMOSTATS ARE TO BE COVERED WITH A BLANK STAINLESS STEEL COVER PLATE.

7.5 PROVIDE SURFACE MOUNTED RACEWAY AS REQUIRED FOR INSTALLATION OF NEW THERMOSTATS ON EXISTING WALLS TO CONCEAL CONTROL WIRING.

7.11 REMOVE EXISTING THERMOSTATS, WIRING AND CONTROLS AS REQUIRED FOR THE INSTALLATION OF NEW CONTROLS.

PART 8 - EXECUTION

8.1 EQUIPMENT: ALL EQUIPMENT TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL SUPPORTS REQUIRED AND SET EQUIPMENT LEVEL. PROVIDE VIBRATION ISOLATION FOR EACH PIECE OF EQUIPMENT. PROVIDE ALL DUCTWORK, CONTROLS AND ELECTRICAL CONNECTIONS REQUIRED. START-UP CHECK AND ADJUST EQUIPMENT TO PROPER OPERATING CONDITIONS. PROVIDE ADDITIONAL BELTS, PULLEYS, DRIVES, SHEAVES, ETC. AS REQUIRED TO PROPERLY BALANCE EACH PIECE OF EQUIPMENT.

8.2 DUCTWORK: ROUTE ALL NEW DUCTWORK AS HIGH AS POSSIBLE TO AVOID CONFLICTS WITH OTHER TRADES. VERIFY CONDITIONS AND EXACT DUCTWORK ROUTING IN FIELD PRIOR TO INSTALLATION. SEAL ALL DUCTWORK JOINTS AIR-TIGHT.

8.3 DUCTWORK, ETC. SHALL NOT BE SUPPORTED FROM THE BOTTOM CHORD OF ENGINEERED JOISTS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

8.5 REGISTERS, GRILLES AND DIFFUSERS: COORDINATE EXACT LOCATION OF ALL CEILING REGISTERS, GRILLES AND DIFFUSERS WITH LIGHTING LAYOUT, SPRINKLER HEADS, AND CEILING GRID. SEE ARCHITECTURAL REFLECTED CEILING PLAN. VERIFY EXACT LOCATION WITH ARCHITECT IN FIELD PRIOR TO INSTALLATION. THE MINIMUM DISTANCE BETWEEN SUPPLY DIFFUSERS AND SMOKE OR HEAT DETECTORS IS TO BE A MINIMUM OF 3'. COORDINATE WITH FIRE ALARM CONTRACTOR AS REQUIRED.

8.6 COORDINATION: CONFER WITH THE OTHER CONTRACTORS REGARDING THE LOCATION AND SIZES OF DUCTWORK IN ORDER THAT THERE MAY BE NO INTERFERENCES BETWEEN INSTALLATIONS OR THE PROGRESS OF THE WORK FOR ANY CONTRACTOR ON THE BUILDING. LAY OUT WORK TO AVOID CONFLICTS BETWEEN DUCTWORK, LIGHTING, CEILINGS, PIPING AND BUILDING STRUCTURE. COORDINATE ALL EQUIPMENT ELECTRICAL REQUIREMENTS (VOLTAGES, PHASE, LOAD, ETC.) WITH ELECTRICAL CONTRACTOR BEFORE ORDERING ANY EQUIPMENT.

8.7 VERIFY LOCATION AND ELEVATION OF EQUIPMENT, DUCTWORK, DIFFUSERS/GRILLES, THERMOSTATS, PANELS, ETC. EXPOSED WITHIN OCCUPIED SPACES BEFORE THE START OF ANY ROUGH-IN OR INSTALLATION.

8.8 CUTTING AND PATCHING TO BE PROVIDED SO THE WORK MAY BE PROPERLY INSTALLED. ALL DISTURBED CONSTRUCTION OR FINISH MUST BE REPLACED OR REPAIRED TO THE ARCHITECT'S SATISFACTION AT THIS CONTRACTOR'S EXPENSE. UNDER NO CONDITION SHALL STRUCTURAL WORK BE CUT EXCEPT UPON APPROVAL OF THE ARCHITECT.

8.9 CLEANING: UPON COMPLETION OF INSTALLATION OF VENTILATION DUCTS, CLEAN ENTIRE SYSTEM OF RUBBISH, PLASTER, DIRT, ETC., BEFORE INSTALLING GRILLES OR DIFFUSERS. REMOVE ALL DEBRIS FROM THE JOB SITE AND LEAVE ALL MECHANICAL EQUIPMENT CLEAN.

MECHANICAL EQUIPMENT SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION	FAN DATA	ELECTRIC HEATING EQUIP./COIL DATA						ELECTRICAL DATA										UNITS CONTROLLED BY	EQUIPMENT WEIGHT	REMARKS
				S/A CFM	MBH	KW	EAT	LAT	STEPS	LOAD				VOLT	PHASE	HZ	DISCONNECT SWITCH:						
										HP	MCA	FLA	MOCP				PROV. BY:						
																	M.C.	E.C.					
ERP-1	Marley Engineered Products	CP628F	2x4 Radiant Ceiling Panels			5						3		208	1	60		X	WALL MTD TSTAT	15	NOTE 1		
ERP-2	Marley Engineered Products	CP628F	2x4 Radiant Ceiling Panels			5						3		208	1	60		X	WALL MTD TSTAT	15	NOTE 1		
ERP-3	Marley Engineered Products	CP628F	2x4 Radiant Ceiling Panels			5						3		208	1	60		X	WALL MTD TSTAT	15	NOTE 1		
ERP-4	Marley Engineered Products	CP628F	2x4 Radiant Ceiling Panels			5						3		208	1	60		X	WALL MTD TSTAT	15	NOTE 1		
EUH-1	Qmark	MUH0381	Electric Unit Heater	350	10.2	3	60	86.86				15		208	1	60		X	WALL MTD TSTAT	27	NOTE 1		
EUH-2	Qmark	MUH0381	Electric Unit Heater	350	10.2	3	60	86.86				15		208	1	60		X	WALL MTD TSTAT	27	NOTE 1		

NOTE 1:
PROVIDE WITH:
• WALL MTD THERMOSTAT
SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

GRILLE, REGISTER, & DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION	AIR PATTERN	MOUNTING	SIZE	REMARKS
A4	NAILOR	6500-O	SUPPLY CEILING DIFFUSER	4-WAY	2' x 2' LAY-IN PANEL	SEE PLANS	
A5	NAILOR	6500-O	SUPPLY CEILING DIFFUSER	2-WAY CORNER	2' x 2' LAY-IN PANEL	SEE PLANS	
R1	NAILOR	6145H-O	RETURN/EXHAUST REGISTER	LOUVERED GRILLE	LAY-IN PANEL	SEE PLANS	

SYMBOL LIST

SYMBOL	DESCRIPTION
	SQUARE TO ROUND TRANSITION
	EXISTING DUCTWORK
	NEW DUCTWORK
	DUCTWORK TO BE REMOVED
	DUCT TRANSITION
	CAP EXISTING DUCTWORK AS REQUIRED
	NEW DUCTWORK TO TIE INTO EXISTING DUCTWORK
	DUCTWORK LINING
	DUCTWORK INSULATION
	FLEXIBLE DUCTWORK
	SUPPLY OR OUTSIDE AIR DUCT DOWN
	SUPPLY OR OUTSIDE AIR DUCT UP
	RETURN OR EXHAUST OR RELIEF DUCT DOWN
	RETURN OR EXHAUST OR RELIEF DUCT UP
	RETURN OR EXHAUST REGISTER
	SUPPLY AIR DIFFUSER
	SLOT DIFFUSER W/ PLENUM
	AUTOMATIC (MOTORIZED) DAMPER
	SEE SCHEDULES
	SHEET NOTE
	MOTOR STARTER
	DUCT SMOKE DETECTORS
	NON ADJUSTABLE THERMOSTAT
	THERMOSTAT - ADJUSTABLE

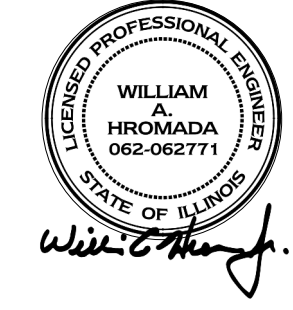
ABBREVIATIONS LIST

AD	AUTOMATIC (MOTORIZED) DAMPER
AFF	ABOVE FINISHED FLOOR
CAI	COMBUSTION AIR INTAKE
CAT	CONDENSING AIR TEMPERATURE
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CTE	CONNECT TO EXISTING
DN	DOWN
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
FC	FLEXIBLE CONNECTION
G	NATURAL GAS
HZ	HERTZ
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	1,000 BTU/HOUR
NC	NORMALLY CLOSED
NK	NECK
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O/A	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
R/A	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
RT	ROOFTOP UNIT
S/A	SUPPLY AIR
SHC	SENSIBLE HEAT CAPACITY
TC	TEMPERATURE CONTROL
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
XP	EXPLOSION PROOF

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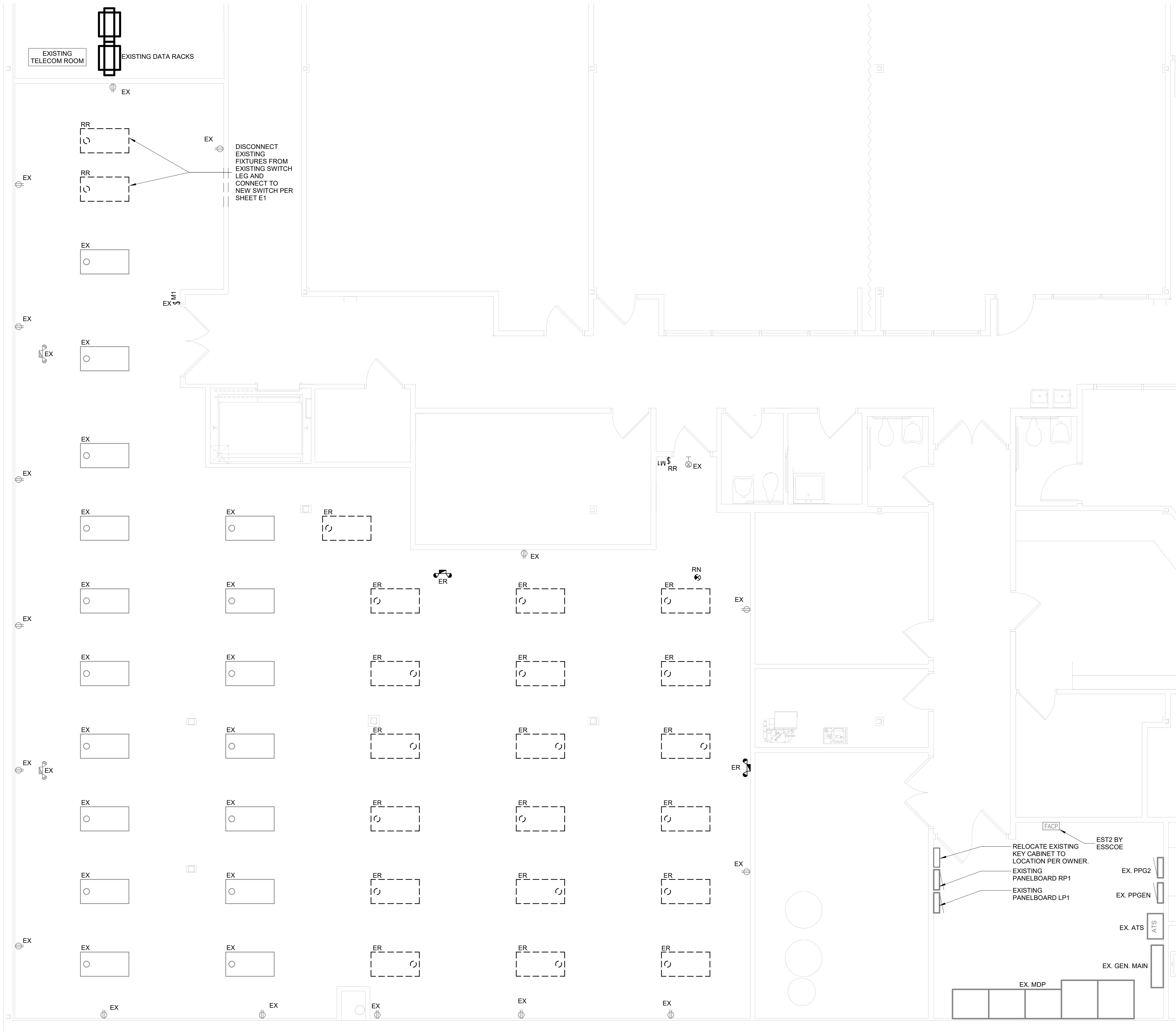
PROJECT NO. 2402-01

SHEET NUMBER

M2

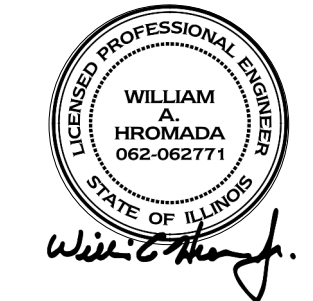
OF SHEETS





- DEMO GENERAL NOTES
1. DEVICES SHOWN ARE FOR ASSISTANCE ONLY. VERIFY ALL DEVICE LOCATIONS IN FIELD AND REMOVE AS REQUIRED PER THE NOTES BELOW.
 2. DISCONNECT AND REMOVE EXISTING POWER AND LOW VOLTAGE DEVICES LABELED AND SHOWN AS 'ER'. REMOVE CONDUIT AND WIRING BACK TO NEAREST JUNCTION BOX FOR EXTENSION TO NEW DEVICES, COMPLETE AS REQUIRED.
 3. REMOVE EXISTING LIGHTING CONTROLS SERVING LIGHT FIXTURES TO BE REMOVED IN THIS SPACE. VERIFY EXACT LOCATION IN FIELD. REMOVE EXISTING WIRING BACK TO SOURCE. RETAIN EXISTING JUNCTION BOXES AND CONDUIT FOR USE WITH NEW LIGHTING CONTROLS WHERE POSSIBLE. COORDINATE CONDITIONS AND REQUIREMENTS IN FIELD. COMPLETE AS REQUIRED.
 4. DISCONNECT AND REMOVE EXISTING LIGHTING (LABELED AND SHOWN AS 'ER') AND RELATED CIRCUITRY BACK TO NEAREST JUNCTION BOX COMPLETE AS REQUIRED. RETAIN ALL ASSOCIATED WIRING, CONDUIT, ETC. FOR USE WITH NEW LIGHTING AND CONTROLS.
 5. ALL CONDUIT, CABLING, OR DEVICES THAT BECOME ABANDONED AS PART OF THE DEMOLITION WORK SHALL BE REMOVED.

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ED1
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1 ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"

LIGHTING GENERAL NOTES

1.

CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUITRY AND EXISTING SWITCHING DEVICES, COMPLETE AS REQUIRED, MAXIMUM 1400W PER 120 VOLT CIRCUIT. WHERE NECESSARY, DUE TO LIMITATIONS IN THE EXISTING CIRCUITRY, CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL AND EXTEND 2 #12 AND 1 #12 GRD IN ½" CONDUIT COMPLETE AS REQUIRED, VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.

2.

CONNECT EMERGENCY UNIT BATTERY LIGHTING AND BATTERY EXIT SIGNS TO LOCAL LIGHTING CIRCUIT AHEAD OF LOCAL SWITCHING. UNITS SHALL OPERATE ON BATTERY WHEN NORMAL CIRCUIT FAILS.

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1 ELECTRICAL LIGHTING FLOOR PLAN

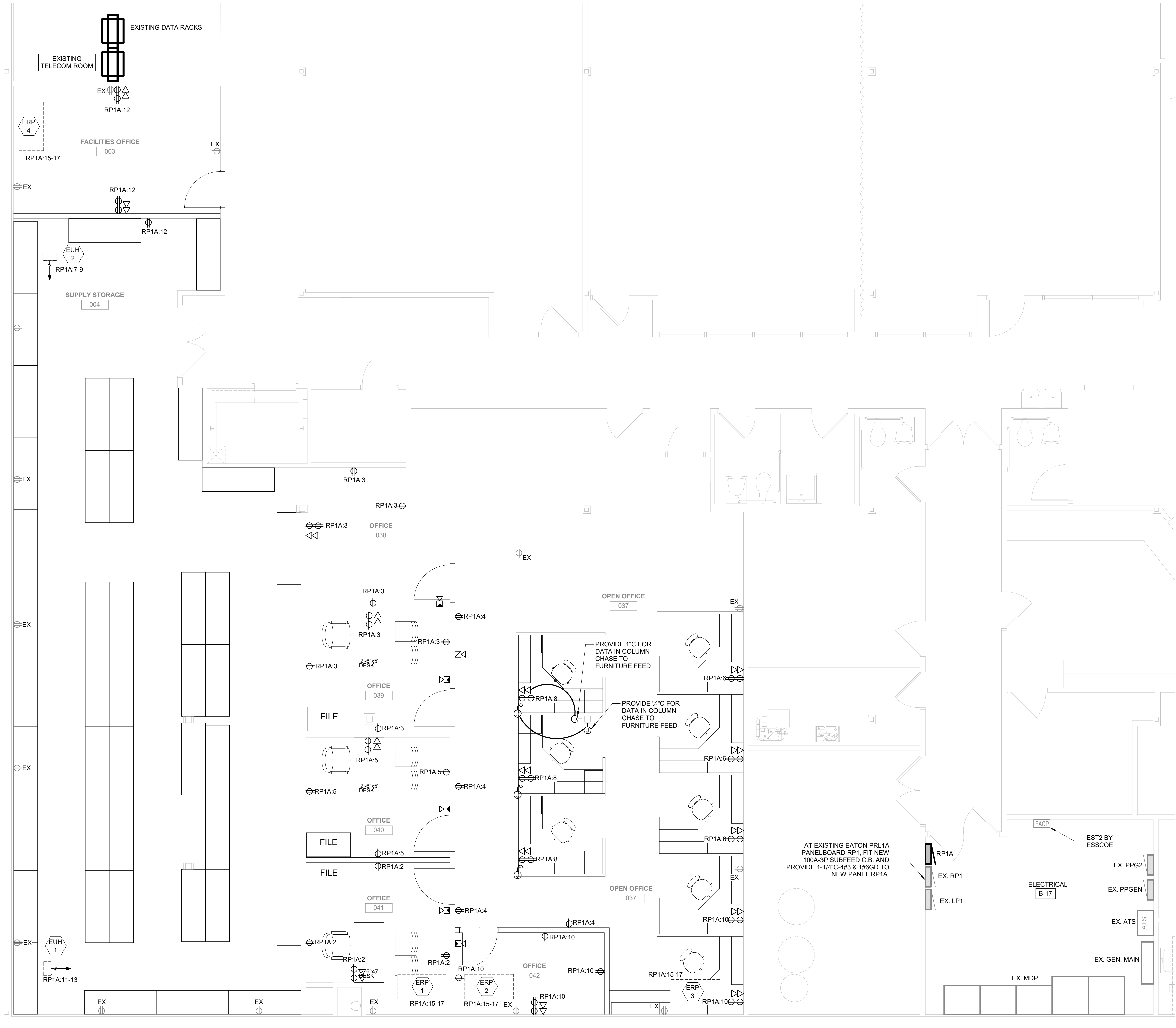
1/4" = 1'-0"

MILLIES

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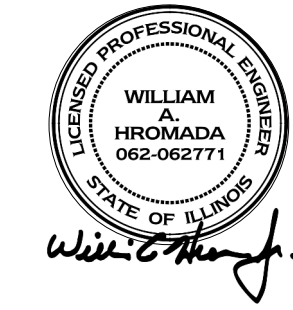


POWER GENERAL NOTES	
1.	REFER TO LOW VOLTAGE SPECIFICATIONS FOR ADDITIONAL STRUCTURED CABLING, WIRING AND CIRCUITING INFORMATION.
2.	AT EXISTING WALLS SHOWING NEW DEVICES, FISH AND CUT/PATCH WALLS TO RECESS ALL RACEWAY AND BACKBOXES. SURFACE RACEWAY SHALL NOT BE ALLOWED

1 ELECTRICAL POWER FLOOR PLAN
1/4" = 1'-0"

MILLIES
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INTERIOR LIGHTING LUMINAIRE SCHEDULE							
TAG	SYMBOL	DESCRIPTION	MANUFACTURER SERIES OR CATALOG NUMBER	VOLTAGE/ BALLAST	LAMPS/CROSS SECTION	MOUNTING	REMARKS
AB		2x2 FLAT PANEL	LITHONIA CPX 2X2 AL07 SWW7 M4	120 VOLT	LED 3500K MIN 3300LM MAX 29W	RECESSED LAY-IN	- SET ON MEDIUM OUTPUT.
ABH		2x2 FLAT PANEL	LITHONIA CPX 2X2 AL07 SWW7 M4	120 VOLT	LED 3500K MIN 4100LM MAX 38W	RECESSED LAY-IN	- SET ON HIGH OUTPUT.
EM		EMERGENCY UNIT BATTERY, CEILING-RECESSED	BARRON EXITRONIX CRL-8-REN3M-3-G2-NI-WL	120 VOLT	LED MAX 3W	RECESSED LAY-IN	-

RP1A

LOCATION:

SUPPLY FROM: RP1

MOUNTING: Recessed

ENCLOSURE: Type 1

A.I.C. RATING: 22K

Notes:

VOLTS: 120/208 Wye

PHASES: 3

MAINS TYPE: MLO

MAIN RATING: 100A

BUSSING:

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	SPARE		20 A	1	0			1000			1	20 A		RECEPT. (Office 041)	2
3	RECEPT. (Office 038 & 039)		20 A	1		1700			800		1	20 A		POWER (Corridor)	4
5	RECEPT. (Office 040)		20 A	1			1000			1200	1	20 A		RECEPT. (Office Area)	6
7	EUH-2		20 A	2	1500			1200			1	20 A		RECEPT. (Office Area)	8
9						1500			1800		1	20 A		RECEPT. (OFFICE 042 & OPEN))	10
11	EUH-1		20 A	2			1500			1000	1	20 A		RECEPT. (FAC. OFFICE 003)	12
13					1500			0			1	20 A		SPARE	14
15	ERP 1-4		20 A	2		1300			0		1	20 A		SPARE	16
17							1300			0	1	20 A		SPARE	18
19	SPARE		20 A	1	0			0			1	20 A		SPARE	20
21	SPARE		20 A	1		0			0		1	20 A		SPARE	22
23	SPARE		20 A	1			0			0	1	20 A		SPARE	24
25	SPACE		--	1	--			--			1	--		SPACE	26
27	SPACE		--	1		--			--		1	--		SPACE	28
29	SPACE		--	1			--			--	1	--		SPACE	30

LEGEND:

1

	PANEL TOTALS
	TOTAL CONNECTED LOAD PHASE A: 5200 VA
	TOTAL CONNECTED LOAD PHASE B: 7100 VA
	TOTAL CONNECTED LOAD PHASE C: 6000 VA
	TOTAL CONNECTED LOAD: 18300 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	TOTAL CONNECTED AMPS: 51 A

- FIXTURE GENERAL NOTES
1. INTERIOR FIXTURES, EXTERIOR FIXTURES AND COLORS TO BE SELECTED BY ARCHITECT. THE ARCHITECT MAY, AT THEIR DISCRETION, CHOOSE A CUSTOM COLOR AT NO ADDITIONAL CHARGE.

2. PENDANT FIXTURES SPECIFIED ON THIS PROJECT SHALL BE CAREFULLY COORDINATED WITH CONTRACT DOCUMENTS AND FIXTURE MANUFACTURER AS EACH PENDANT FIXTURE IS A CUSTOM MANUFACTURED FIXTURE. PROVIDE PENDANT EMERGENCY SECTIONS AND EMERGENCY CIRCUITS AS SHOWN. COORDINATE WITH FIXTURE MANUFACTURER AND PROVIDE ADDITIONAL ACCESSORIES FOR A COMPLETE AND PROPER INSTALLATION. PROVIDE PROPER FIXTURE LENGTH, FEEDS, SINGLE AND DUAL CIRCUITING AND SUSPENSION LENGTH AS SHOWN ON DRAWINGS. PROVIDE FABRICATION DRAWINGS FOR REVIEW AS PART OF THE SHOP DRAWING SUBMITTAL PROCESS.

3. LED FIXTURES (LESS THAN 10000 LUMENS) SHALL BE PROVIDED WITH FACTORY INSTALLED INTEGRAL EMERGENCY BATTERY UNITS BATTERY UNITS SHALL PROVIDE A MINIMUM OF 1400 LUMENS.

4. FIXTURES THAT CANNOT BE PROVIDED WITH EMERGENCY BALLASTS OR FIXTURES WITH GREATER THAN 10000 LUMENS SHALL BE PROVIDED WITH EMERGENCY INVERTER (MYERS #LV SERIES OR APPROVED EQUAL) WITH SUITABLE CAPACITY TO POWER FIXTURE FOR A MINIMUM OF 90 MINUTES PER CODE. VERIFY SIZING AND REQUIREMENTS WITH CONTRACT DOCUMENTS PRIOR TO ORDERING.

5. SHADED FIXTURES SHALL HAVE AN EMERGENCY SOURCE OF POWER AS SPECIFIED.

6. FIXTURES WITH EMERGENCY BATTERIES SHALL BE PROVIDED WITH CONSTANT HOT SENSING WIRE SO THAT FIXTURE CAN BE SWITCHED ON AND OFF WITHOUT ACTIVATING EMERGENCY BALLAST. UPON LOSS OF POWER, THE FIXTURE SHALL BE ILLUMINATED FOR A MINIMUM OF 90 MINUTES REGARDLESS OF THE LIGHT SWITCH POSITION. PROVIDE TEST SWITCH AND CHARGING INDICATOR FOR EMERGENCY BATTERY AS SPECIFIED.

7. ALL INTEGRAL EMERGENCY BATTERIES USED IN EXTERIOR APPLICATIONS SHALL HAVE A MINIMUM STARTING TEMPERATURE OF -20 DEGREES F UNLESS OTHERWISE SPECIFIED.

8. CAREFULLY COORDINATE MOUNTING REQUIREMENTS FOR FIXTURES WITH CONTRACT DOCUMENTS AND FIXTURE MANUFACTURER. PROVIDE APPROPRIATE MOUNTING FRAMES FOR LAY-IN OR GYPSUM CEILINGS. VERIFY CEILING REQUIREMENTS WITH FINAL ARCHITECTURAL REFLECTED CEILING PLAN.

9. COMPLETE PHOTOMETRICS OF THE INTERIOR AND EXTERIOR LIGHTING SHALL BE SUBMITTED ALONG WITH THE LIGHTING SHOP DRAWINGS FOR REVIEW. FOR FINISHED SPACES, 80/50/20 REFLECTANCES SHALL BE UTILIZED. FOR UNFINISHED SPACES 50/50/20 REFLECTANCE SHALL BE UTILIZED. THE LLD VALUE THAT SHALL BE UTILIZED FOR LED IS .81. EXTERIOR CALCULATIONS SHALL ACCOUNT FOR HOUSE SIDE SHIELDING AND SHALL CONFORM TO LOCAL REQUIREMENTS.

10. VERIFY FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.

11. PROVIDE CUSTOM ANTI-SWAY BRACING FOR PENDANT TO ELIMINATE PENDANT MOVEMENT DUE TO AIR MOVEMENT OR ENVIRONMENTAL CAUSES.

12. COORDINATE LOCATIONS OF INTERIOR AND EXTERIOR LIGHTING FIXTURES WITH FINAL ARCHITECTURAL DRAWINGS. FIXTURES THAT ARE NOT INSTALLED IN THE CORRECT LOCATION SHALL BE RELOCATED AND REINSTALLED IN THE CORRECT LOCATION AT NO ADDITIONAL CHARGE.

13. FIXTURES SHALL BE PROVIDED WITH ESCUTCHEON PLATES AS REQUIRED TO COVER EXISTING HOLES FROM REMOVED FIXTURES. CANOPY CEILING AROUND NEW FIXTURES SHALL BE REFINISHED TO MATCH EXISTING SURROUNDING CANOPY CEILING SURFACES.

14. FIXTURES SHALL BE CAREFULLY COORDINATED WITH MANUFACTURER TO DELIVER THE SPECIFIED PRODUCT IN SUFFICIENT TIME TO MEET PROJECT DEADLINES. EQUIPMENT DELIVERY LEAD TIME SHALL NOT BE HELD AS A VALID REASON FOR REQUESTING LUMINAIRE SUBSTITUTION UNLESS LUMINAIRE LEAD TIME FROM SPECIFIED MANUFACTURER IS IN EXCESS OF 14 WEEKS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DETERMINE NECESSARY EQUIPMENT LEAD TIMES, DELIVER SUBMITTALS FOR REVIEW IN A TIMELY FASHION, AND PLACE ORDERS ACCORDINGLY TO ENSURE TIMELY DELIVERY.

15. EVALUATION OF APPROVED EQUALS SHALL BE AT THE SOLE DISCRETION OF THE ARCHITECT AND ENGINEER. IF THE PRODUCT SUBMITTED DURING THE REVIEW PROCESS IS NOT JUDGED AS AN EQUAL BY THE REVIEWING ENGINEER, THE CONTRACTOR SHALL PROVIDE THE PRODUCT SPECIFIED.

16. LIGHT FIXTURE TRANSFORMERS SHALL BE INTEGRAL STEP DOWN TRANSFORMERS PER NEC 210.6C. IF AN INTEGRAL STEP DOWN TRANSFORMER IS NOT AVAILABLE, PROVIDE A 120V CONNECTION FOR LIGHT FIXTURES AND ADDITIONAL CONTROL DEVICES AS REQUIRED TO PROPERLY CONTROL FIXTURES ALONG WITH OTHER 277 VOLT LIGHTING IN ROOM. VERIFY CONDITIONS AND REQUIREMENTS, COMPLETE AS REQUIRED.

17. CAREFULLY COORDINATE VOLTAGES OF FIXTURES PRIOR TO ORDERING FIXTURES.

18. APPROVED EQUALS WILL BE CONSIDERED FROM THE FOLLOWING VENDORS: KSA LIGHTING (630.307.6955), THE LIGHTING DIGEST (630-566-2274), PG ENLIGHTEN (847.228.1199) OR ARCHIBALD AND MEEK (630.833.7377).

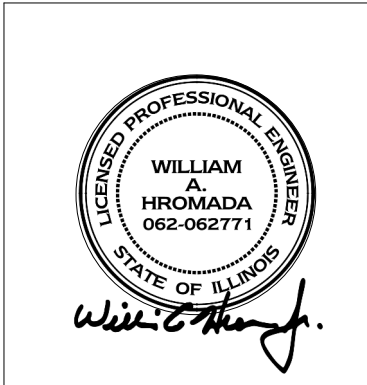
19. CAREFULLY VERIFY COLOR TEMPERATURE OF FIXTURES WITH ARCHITECT PRIOR TO ORDERING.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE																			
TAG	DESCRIPTION	LOAD				MOCBP	VOLT	PHASE	PANEL	CKT. NO.	FEEDER		DISCONNECT SWITCH		STARTER		REMARKS		
		WATTS	HP	MCA	FLA						CABLE	CONDUIT	SIZE	FUSE	PROV. BY			PROV. BY:	
															M.C./P.C.	E.C.		TYPE	M.C./P.C.
ERP-1	2x4 Radiant Ceiling Panels	650			3	15	208	1	RP1A	15,17									
ERP-2	2x4 Radiant Ceiling Panels	650			3	15	208	1	RP1A	15,17									
ERP-3	2x4 Radiant Ceiling Panels	650			3	15	208	1	RP1A	15,17									
ERP-4	2x4 Radiant Ceiling Panels	650			3	15	208	1	RP1A	15,17									
EUH-1	Electric Unit Heater	3000			14.5	20	208	1	RP1A	11,13									
EUH-2	Electric Unit Heater	5000			14.5	20	208	1	RP1A	7,9									

stromsland + de young + prybys

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CALL CENTER SUITE

WILL COUNTY COMMUNITY HEALTH CENTER

1106 NEAL AVE.

JOLIET, ILLINOIS

DATE: 05/13/2024

REVISED:

PROJECT NO.

2402-01

SHEET

NUMBER

E3

OF

SHEETS



ELECTRIC ABBREVIATIONS			
NOTE: ABBREVIATIONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW. REFER TO CSI SECTION 01420 FOR ANY ABBREVIATIONS LISTED ON THE DRAWINGS BUT ARE NOT LISTED BELOW.			
A	AMPS	KVA	KILOVOLT AMPERE
AC	AIR CONDITIONING	KW	KILOWATTS MECHANICAL MECH
AFB	ABOVE FINISHED FLOOR	MTD	MOUNTED
AFG	ABOVE FINISHED GRADE	NE	NEW LOCATION OF EXISTING RELOCATED DEVICE
BRKR	BREAKER	NIC	NOT IN CONTRACT
C	CONDUIT	NL	NIGHTLIGHT SCALE
CH	CABINET HEATER	NTS	NOT TO OIC ON CENTER
CKT	CIRCUIT	P	POLE
DISTR	DISTRIBUTION	PNL	PANEL
EF	EXHAUST FAN	PH	PHASE
ELEC	ELECTRICAL	RR	REMOVE AND RELOCATE EXISTING DEVICE
EM	EMERGENCY	SW	SWITCH
EMT	ELECTRICAL METALLIC TUBING	TPY	TYPICAL UN UNLESS OTHERWISE NOTED
ER	EXISTING TO BE REMOVED DEVICE	V	VOLTS
EX	EXISTING TO REMAIN DEVICE	VIF	VERIFY IN FIELD
F	FUSE	W	WATTS
FS	FUSIBLE SWITCH	WP	WEATHER PROOF TYPE DEVICE
G	GROUND	WG	WIRE GUARD
GFI	GROUND FAULT INTERRUPTING PROTECTION	F&I	AND INSTALL FURNISH
GRC	GALVANIZED RIGID CONDUIT		
HP	HORSEPOWER		
J	JUNCTION BOX		

SYMBOL LIST	
NOTE: * FIRE ALARM DEVICES, MOUNTING HEIGHT, ETC. SHALL COMPLY WITH 'ADA' STANDARDS. AD MOTORIZED DAMPER - E.C. TO INTERLOCK COMPLETE AS REQUIRED. FACP FIRE ALARM CONTROL PANEL D FIRE ALARM SYSTEM HEAT DETECTOR - COMBINATION TYPE (R/R - FIXED TEMP.) IN BOILER ROOM SD FIRE ALARM SYSTEM SMOKE DETECTOR - CEILING MOUNTED - ABOVE FACP SD FIRE ALARM SYSTEM DUCT TYPE SMOKE DETECTOR PROVIDED INTEGRAL TO THE ROOF TOP UNIT. WIRED TO CONTROL LOCAL FAN SHUT DOWN RELAY AND WIRED PER MANUFACTURER'S RECOMMENDATIONS AND NFPA 72 FIRE ALARM PULL STATION MTD 42" AFF. FIRE ALARM AUDIO/VISUAL DEVICE MTD. 80" A.F. OR 6" BELOW FINISHED CEILING WHICHEVER IS LOWER. - 110 CANDELA FIRE ALARM STROBE ONLY MTD 80" AFF. - 15 CANDELA FIRE ALARM STROBE ONLY MTD 80" AFF. - 75 CANDELA V DUPLEX DATA OUTLET - WITH 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING - MOUNTED 18" A.F.F. WHEN MOUNTED ADJACENT TO AN ELECTRICAL RECEPTACLE OR AS NOTED. PROVIDE CAT-6 PLENUM CABLE, FROM EACH JACK, TO NEAREST IDF OR MDF LOCATION INDICATED ON PLANS. TERMINATE WITH RJ-45 JACK. TEST AND LEAVE 10' SLACK LENGTH. WT DUPLEX DATA OUTLET FOR WIRELESS ACCESS POINTS - LOCATED ABOVE ACCESSIBLE CEILING SPACE AND 6" ABOVE THE GRID OR TIGHT TO THE ROOF DECK WHERE NO CEILINGS EXIST. PROVIDE 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. PROVIDE CAT-6 PLENUM CABLE, FROM EACH JACK, TO NEAREST MDF OR IDF LOCATION INDICATED ON PLANS. TERMINATE WITH RJ-45 CAT-6 JACK, TEST AND LEAVE 10' SLACK LENGTH. M1 FURNISH AND INSTALL WALL SWITCH SINGLE BUTTON DUAL TECHNOLOGY OCCUPANCY SENSOR WITH MANUAL ON OPERATION. MANUFACTURERS: SENSORSWITCH #WSX-PDT OR APPROVED EQUAL BY GREENGATE, LEVITON OR CRISTAL CONTROLS. M3 FURNISH AND INSTALL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH POWER PACK. MANUFACTURERS: SENSORSWITCH #CM-PDT-10-MP-20 (WITH MICROPHONICS) OR APPROVED EQUAL BY GREENGATE, LEVITON OR CRISTAL CONTROLS. WALL MOUNTED 0-10V WIFI DIMMER SWITCH - PROVIDE LEVITON DH1KD-1BZ DIMMER FOR PHASE DIMMERS OR APPROVED EQUAL AND LEVITON AVSMT-7DW FOR 0-10V DIMMERS. VERIFY SUITABILITY OF DIMMER WITH FIXTURE MANUFACTURER PRIOR TO ORDERING. M1 WALL MOUNTED 0-10V WIFI DIMMER SWITCH MLD 42" AFF WITH DUAL TECHNOLOGY OCCUPANCY SENSOR. SENSORSWITCH, COOPER OR HUBBEL CONTROLS. VERIFY SUITABILITY OF DIMMER WITH FIXTURE MANUFACTURE PRIOR TO ORDERING. 120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED 18" A.F.F. OR AS NOTED) (HUBBELL #5362 OR EQUAL). 120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED 42" A.F.F. OR 2" ABOVE BACKSPLASH IF LOCATED ABOVE COUNTER) (HUBBELL #5362 OR EQUAL) 120V-20A SPECIFICATION GRADE GROUNDED DUPLEX RECEPTACLE WITH G.F.I. PROTECTION - (MOUNTED 18" A.F.F. OR AS NOTED) (HUBBELL #GF20 OR EQUAL) 120V-20A SPECIFICATION GRADE GROUNDED DUPLEX RECEPTACLE WITH G.F.I. PROTECTION (MOUNTED 42" A.F.F. OR 2" ABOVE BACKSPLASH IF LOCATED ABOVE COUNTER) (HUBBELL #GF20 OR EQUAL) 120V-20A SPECIFICATION GRADE GROUNDED DUPLEX RECEPTACLE WITH G.F.I. PROTECTION - (MOUNTED AT SPECIAL HEIGHT - COORDINATE IN FIELD) (HUBBELL #GF20 OR EQUAL) 120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED AT SPECIAL HEIGHT - COORDINATE IN FIELD) (HUBBELL #5362 OR EQUAL) SPECIAL PURPOSE OUTLET (AS NOTED ON PLAN OR SPECIFICATIONS). JUNCTION BOX (MOUNTED AT AT SPECIAL HEIGHT - COORDINATE IN FIELD) - SIZE AND TYPE AS REQUIRED. JUNCTION BOX - SIZE AND TYPE AS REQUIRED. FLEX CONDUIT CONNECTION JUNCTION BOX W/ FLEX CONDUIT CONNECTION. ELECTRIC MOTOR CONNECTION - PROVIDE LOCAL DISCONNECT SWITCH PER NATIONAL ELECTRIC CODE - CONNECT MISCELLANEOUS ACCESSORIES SUCH AS BACK DRAFT DAMPERS, ETC. COMPLETE AS REQUIRED.	CONDUIT STUB INTO ACCESSIBLE CEILING SPACE - TERMINATE W/ INSULATING BUSHING CONDUIT CONCEALED ABOVE CEILING OR IN WALL CONDUIT CONCEALED IN OR BELOW FINISHED FLOOR. CONDUIT EXPOSED ON CEILING, WALL OR BAR JOIST - ROUTED IN NEAT MANNER FLEXIBLE CONDUIT - ROUTED IN NEAT MANNER WITHIN CHASE OF CASEWORK. LP-A1 #1 HOMERUN TO PANEL INDICATING PANEL AND CIRCUIT BREAKER NUMBER WITHIN THE PANEL. INDICATES NUMBER OF CONDUCTORS IN CONDUIT (CONTRACTOR SHALL VERIFY AND INSTALL ADDITIONAL WHERE REQUIRED) CROSS HATCHED INDICATES NUMBER OF CONDUCTORS (HOT OR SWITCHED LEG, NEUTRAL, GROUND) X HEXAGON TAG REFERENCE TO EQUIPMENT CONNECTION SCHEDULE 1 ELLIPSE TAG REFERENCE TO SHEET NOTES TWO DEVICE MOUNTED UNDER COMMON COVER. WHERE LOW VOLTAGE DEVICES ARE MOUNTED UNDER COMMON COVER, COMBINE CONDUIT STUBS MAINTAINING THE EQUIVALENT FREE AREA FOR THE LOW VOLTAGE CABLING. ELECTRIC PANELBOARDS. DISCONNECT SWITCH SIZE AND TYPE AS REQUIRED - COORDINATE AMPERE RATING WITH EQUIPMENT SUPPLIER F&I NEW DEVICE AS INDICATED. EX EXISTING LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICE, ETC. TO REMAIN. RR REMOVE EXISTING LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICES, ETC. AND RELOCATE TO NEW LOCATION COMPLETE AS REQUIRED. NE NEW LOCATION OF EXISTING RELOCATED LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICE, ETC. EXTEND CONDUIT, WIRE, CABLE, ETC. COMPLETE AS REQUIRED TO NEW LOCATION FOR A COMPLETE AND PROPER INSTALLATION. RN REMOVE EXISTING DEVICE AND PROVIDE NEW AS INDICATED IN EXISTING BACK BOX, JUNCTION BOX, ETC. VERIFY EXACT LOCATION AND CONDITIONS IN FIELD. MODIFY EXISTING BACK BOX, JUNCTION BOX, ETC. PROVIDE TRIM PLATES, EXTENSION RINGS, ETC. AS REQUIRED TO MOUNT NEW DEVICE AS INDICATED. EXTEND RACEWAY AND EXISTING BRANCH CIRCUIT WIRING WHERE REQUIRED. NI

DATE: 05/13/2024
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2402-01

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OF SHEETS



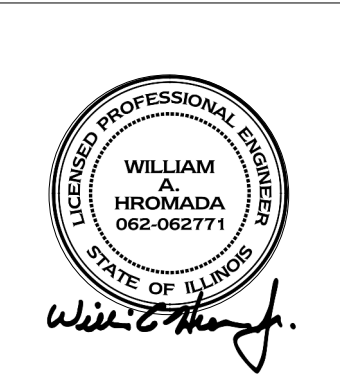
SPECIFICATIONS

BASIC ELECTRICAL REQUIREMENTS		ELECTRICAL DEMOLITION	
GENERAL		GENERAL REQUIREMENTS	
RELATED DOCUMENTS		REMOVE EXISTING CONSTRUCTION AS REQUIRED AT EXISTING WALLS, FLOORS, PIPE CHASES, SURFACES, FINISHES, ETC. WHICH ARE AFFECTED BY THIS CONTRACTOR'S WORK. THIS CONTRACTOR SHALL REPAIR EXISTING SURFACES AFFECTED, TO MATCH EXISTING SURFACE OF EQUAL OR BETTER QUALITY TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.	
THE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS ARE APPLICABLE TO EACH CONTRACT FOR THE PROJECT.		EXISTING LIGHTING FIXTURES, ELECTRICAL DEVICES, CONDUIT, ETC. SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK. EXISTING ELECTRICAL EQUIPMENT AND LIGHTING FIXTURES SHALL REMAIN PROPERTY OF THE OWNER AND SHALL BE PROPERLY STORED ON SITE OR DESIGNATED TO BE ABANDONED AND REMOVED FROM SITE AS DIRECTED BY OWNER.	
DESCRIPTION OF WORK		EXISTING ELECTRICAL DEVICES (RECEPTACLES, SWITCHES, OUTLET BOXES, CONDUIT, ETC.) WITHIN WALLS TO BE REMOVED SHALL BE DISCONNECTED COMPLETELY. REROUTE CIRCUITRY AS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY FOR REMAINING DEVICES/EQUIPMENT. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.	
FURNISH AND INSTALL LABOR AND MATERIALS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF ELECTRICAL SERVICES AND SYSTEMS INDICATED AND AS MAY BE REQUIRED TO MAKE THE WORK COMPLETE FOR THE PURPOSE INTENDED. LAYOUTS SHOWN ARE DIAGRAMMATIC - INSTALL FIXTURES, DEVICES, EQUIPMENT AND CONDUITS TO MEET ACTUAL FIELD CONDITIONS.		DEENERGIZE AFFECTED CIRCUITS AND REMOVE ELECTRICAL EQUIPMENT, DEVICES, FIXTURES, CONDUIT, WIRING, ETC. CAREFULLY REMOVE ITEMS.	
GENERAL REQUIREMENTS		DISCONNECT ELECTRICALLY OPERATED EQUIPMENT WHERE REMOVAL BY ANOTHER CONTRACTOR IS REQUIRED.	
THE PANEL SCHEDULES ARE PROVIDED FOR ASSISTANCE ONLY IN UNDERSTANDING THE LOADING ON THE VARIOUS CIRCUITS AND THE CIRCUIT DESIGNATIONS DESIRED FOR THE PANEL DIRECTORIES. THE PANEL SCHEDULES MUST BE BALANCED BY THE CONTRACTOR UPON COMPLETION OF THE WORK TO COMPLY WITH CODE. IN ADDITION, THE PANEL SCHEDULES DO NOT IDENTIFY THE TYPES OF CIRCUIT BREAKERS TO BE USED (SUCH AS GFCI, HACR, AFCI, LOCKING, SHUNT TRIP UNITS, ETC.) NOR DO THE SCHEDULES IDENTIFY CIRCUIT BREAKERS REQUIRED. (SUCH AS C/B'S FEEDING SURGE PROTECTION UNITS), REFER TO THE REST OF THE COMPLETE CONTRACT DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND DETAILED INFORMATION.		260533 RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS	
EQUIPMENT ENCLOSURES SHALL BE SUITABLE FOR THE INSTALLED CONDITIONS (I.E. NEMA 4X IN CORROSIVE ENVIRONMENTS, NEMA 3R IN WET OR EXTERIOR LOCATIONS, ETC.)		OUTLET BOXES	
SHOP DRAWINGS		FURNISH AND INSTALL OUTLET BOXES, PULL BOXES, AND CONDUIT FITTINGS AS DESCRIBED BELOW. CATALOG NUMBERS SHOWN ARE APPLETON ELECTRIC COMPANY. EQUAL MATERIALS BY STEEL CITY, O.Z., AND RACO, ARE ACCEPTABLE.	
SHOP DRAWINGS TO BE SUBMITTED (SIX COPIES UNLESS DIGITAL) FOR FIXTURES, EQUIPMENT, DEVICES AND MATERIALS WITHIN 30 DAYS OF CONTRACT AWARD FOR REVIEW. ALLOW FOR 10 BUSINESS DAYS ENGINEER REVIEW TIME.		LIGHTING BOXES (CONCEALED) - NO. 40-3/4	
A NOTATION SHALL BE MADE ON EACH SHOP DRAWING SUBMITTED AS TO THE ITEMS SPECIFIC USE, EITHER BY A PARTICULAR TYPE NUMBER REFERENCED ON THE DRAWINGS OR BY A DESCRIPTION OF ITS SPECIFIC LOCATION.		LIGHTING BOXES (CONCRETE) - OCR SERIES	
THE ARCHITECT/ENGINEER SHALL HAVE THE FINAL AUTHORITY AS TO WHETHER THE FIXTURE IS EQUAL TO THE SPECIFIED ITEM. THE PROPOSED SUBSTITUTION MAY ALSO BE REJECTED FOR THE AESTHETIC VALUE IF FELT NECESSARY OR DESIRABLE. IN THE EVENT THE PROPOSED SUBSTITUTIONS DESCRIBED ARE REJECTED, THE CONTRACTOR SHALL FURNISH THE SPECIFIED ITEM.		LIGHTING BOXES (EXPOSED) - 4S-3/4 OR 40-3/4	
CODES AND STANDARDS		FLUSH SWITCHES, RECEPTACLES - NO. 4S-3/4 2 125" DEEP (WITH BOX COVERS) (PROVIDE EXTENSION RING OR PLASTER RING AS REQUIRED)	
CODES: WORK AND MATERIALS SHALL COMPLY WITH NATIONAL ELECTRICAL CODE (NEC), STATE, LOCAL, MUNICIPAL ELECTRICAL CODES AND BUILDING ORDINANCES, AS WELL AS ADOPTED NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES AND STANDARDS. MATERIALS SHALL BE IN COMPLIANCE LISTED WITH A NATIONALLY RECOGNIZED TESTING LABORATORY SUCH AS UL OR ETL.		WEATHERPROOF TYPE SWITCH, RECEPTACLE AND TELEPHONE BOXES (EXPOSED) - FS SERIES W/FS COVER AND NEOPRENE GASKET.	
PERMITS AND FEES		SWITCH, RECEPTACLE AND TELEPHONE- 4S-3/4 2 125" DEEP WITH 8360 OR 8370 SERIES RAISED SURFACE COVER.	
OBTAIN AND PAY FOR REQUIRED LICENSES, PERMITS AND INSPECTIONS FOR THE WORK REQUIRED. CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER.		PER NEC 2017 ART. 406.9(B), RECEPTACLES IN WET LOCATIONS SHALL BE IN OUTLET BOXES LISTED AS 'EXTRA DUTY'.	
MATERIALS AND WORKMANSHIP		EXTENSION AND PLASTER RINGS SHALL BE INSTALLED AS REQUIRED BY THE NEC.	
MATERIALS SHALL BE NEW AND OF THE QUALITY SPECIFIED. MATERIALS SHALL BE STANDARD PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH EQUIPMENT AND SHALL BE THE MANUFACTURER'S LATEST STANDARD DESIGN. ELECTRICAL MATERIAL AND EQUIPMENT USED IN THE WORK SHALL MEET THE REQUIREMENTS AS SPECIFIED UNDER PARAGRAPH THREE OF THIS SECTION, CODES AND STANDARDS.		OUTLET BOXES SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE IN REGARD TO THE ALLOWABLE FILL.	
WORK INSTALLED SHALL BE PERFORMED IN A WORKMANSHIP-LIKE MANNER AND BE COMPLETE IN BOTH ACTIVITY AND APPEARANCE. WHETHER FINALLY CONCEALED OR EXPOSED, AND SHALL BE EXECUTED BY EXPERIENCED TRADESMEN OF THE APPROPRIATE TRADES.		PULL BOXES	
INSTALLATION METHODS		PULL BOXES SHALL BE FABRICATED OF CODE GAUGE GALVANIZED SHEET METAL AND SHALL BE SIZED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE REQUIREMENTS, OR AS SHOWN ON THE DRAWINGS. PROVIDE REMOVABLE COVER ON THE LARGEST ACCESS SIDE OF THE BOX. IN-LINE CONDUIT PULL BOXES MAY BE O.Z., TYPE PBW, OR EQUAL.	
CONDUCTORS SHALL BE INSTALLED IN CONCEALED RACEWAYS EXCEPT AS SHOWN OR SPECIFIED ON THE CONTRACT DOCUMENTS. EXPOSED CONDUITS AND WIRES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING SURFACES. CONDUITS AND WIRES IN THE SPACE ABOVE CEILINGS SHALL BE SUPPORTED ADEQUATELY AND NOT LAID ON THE TOP OF CEILING SYSTEMS. CONDUITS AND WIRES INSTALLED ABOVE CEILINGS SHALL BE CONSIDERED EXPOSED.		RACEWAYS AND FITTINGS (ONLY PRODUCT LISTED SHALL BE ALLOWED)	
ELECTRICAL CONDUITS SHALL NOT BE HUNG ON HANGERS WITH ANY OTHER SERVICE FOREIGN TO THE ELECTRICAL SYSTEMS, NOR SHALL THEY BE ATTACHED TO OTHER FOREIGN SERVICES.		RACEWAYS SHALL BE INSTALLED CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE. WIREMOLD (OR EQUAL) SHALL BE USED ONLY AFTER OWNER'S APPROVAL. WIREMOLD SHALL BE PAINTED TO MATCH WALLS, OR IN ACCORDANCE WITH THE ARCHITECTS' DIRECTION.	
THE LIGHTING AND POWER BRANCH CIRCUIT CONDUCTORS SHALL BE INSTALLED IN SEPARATE RACEWAY SYSTEMS UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.		THE USE OF EMT IS PERMITTED IN INTERIOR PARTITIONS AND ABOVE SUSPENDED CEILINGS. THE USE OF RMC AND IMC IS PERMITTED IN INSTALLATIONS BELOW GRADE AND LOCATIONS REQUIRING MECHANICAL PROTECTION.	
OUTLET BOX LOCATIONS. OUTLET BOXES SHALL BE LOCATED SO THEY ARE NOT PLACED BACK-TO-BACK IN THE SAME WALL IN ORDER TO LIMIT SOUND TRANSMISSION FROM ROOM TO ROOM.		FMC SHALL BE USED IN LENGTHS 6 FT OR LESS FOR FINAL CONNECTIONS TO VIBRATING EQUIPMENT IN DRY LOCATIONS. LFMC SHALL BE USED IN LENGTHS OF 6 FT OR LESS FOR FINAL CONNECTIONS TO VIBRATING EQUIPMENT IN WET LOCATIONS. THE USE OF RNC IS PERMITTED ONLY WHERE INDICATED ON PLANS. (VERIFY WITH LOCAL GOVERNING CODES PRIOR TO INSTALLATION.)	
PROTECTION FROM WEATHER		MINIMUM CONDUIT SIZE SHALL BE 3/4" EMT; MINIMUM IMC OR RIGID H.W. CONDUIT SIZE TO BE 3/4". (VERIFY WITH LOCAL GOVERNING CODES PRIOR TO INSTALLATION.)	
RACEWAY STUB UPS SHALL BE CAPPED OR OTHERWISE PROTECTED FROM MOISTURE AND DEBRIS UNTIL SUCH TIME THAT THE CONDUCTORS ARE PULLED. CONDUCTORS SHALL NOT BE INSTALLED IN RACEWAYS UNTIL THE BUILDING IS PROTECTED FROM THE WEATHER. CONCRETE AND PLASTERING IS COMPLETED AND RACEWAYS IN WHICH MOISTURE HAS COLLECTED HAVE BEEN SWABBED OR BLOWN OUT.		COUPLINGS AND CONNECTORS SHALL BE COMPRESSION OR SET SCREW TYPE AND SHALL BE MADE UP MECHANICALLY SECURE AND ELECTRICALLY CONTINUOUS. EXTERIOR FITTINGS SHALL BE WEATHERTIGHT.	
ELECTRICAL ROOM COORDINATION		SURFACE MOUNTED PULL BOXES, OUTLET BOXES, ETC., SHALL HAVE SUPPORTS INDEPENDENT OF CONDUIT SYSTEM AND SECURELY ANCHORED TO THE STRUCTURE. THE ENTIRE CONDUIT SYSTEM SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. NO CONDUITS SHALL BE SUPPORTED FROM THE VENTILATING DUCTS, MECHANICAL PIPING OR THEIR HANGERS.	
WHERE A NUMBER OF ELECTRICAL PANELS AND/OR RELATED ELECTRICAL ITEMS ARE SHOWN, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE PHYSICAL SIZES WITH HIS EQUIPMENT SUPPLIERS TO ENSURE THAT THERE IS ADEQUATE SPACE FOR THE ITEMS SHOWN TO BE INSTALLED IN THOSE AREAS AND THAT ALL CODE REQUIRED CLEARANCES ARE MAINTAINED.		WHERE INDICATED ON THE DRAWINGS IN UNFINISHED SPACES, RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALL.	
THE CONTRACTOR SHALL REARRANGE THE EQUIPMENT LAYOUT TO ACHIEVE FULL USE OF THE AVAILABLE SPACE PRIOR TO INSTALLING CONDUIT STUB UPS. WHERE A CONFLICT OR REARRANGEMENT EXISTS, THE CONTRACTOR SHALL SUBMIT A PROPOSED REVISED LAYOUT OF THE AREA TO THE ARCHITECT.		PROVIDE PULL WIRE IN EACH RACEWAY IN WHICH WIRING IS NOT INSTALLED.	
LIGHTING SYSTEM CONTROL DEVICES		COVERS OF JUNCTION OR PULL BOXES SHALL BE ACCESSIBLE AND IDENTIFIED WITH PERMANENT MARKINGS TO INDICATE PANEL AND CIRCUIT NUMBER. FIRE ALARM JUNCTION BOXES SHALL BE PAINTED RED.	
THE LIGHTING DESIGN FOR THIS PROJECT INCLUDES MULTIPLE CONTROL SCENARIOS AND DEVICE TYPES PROVIDING FOR SWITCHING, OCCUPANCY SENSING, DIMMING, DAYLIGHT HARVESTING, AND SIMILAR CONTROL SOLUTIONS. REFER TO PLANS FOR DETAILS, SEQUENCE OF OPERATION, AND DETAILED DEVICE TYPE INFORMATION. PROVIDE ACCESSORIES SUCH AS POWER PACKS, SUPPLEMENTAL SENSOR DEVICES, WIRING HARNESES, LOW VOLTAGE CONTROL WIRING, ETC., AS NECESSARY TO PROVIDE A COMPLETE SYSTEM TO MEET THE DESIGN INTENT IDENTIFIED ON THE CONTRACT DOCUMENTS.		260519 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS	
WHERE CONTROLLED EMERGENCY LIGHTING IS IDENTIFIED ON PLANS, PROVIDE UL 924 LISTED TRANSFER DEVICES AS REQUIRED IN COMPLIANCE WITH NFPA AND NEC.		GENERAL REQUIREMENTS	
CONTRACTOR SHALL ENSURE FINAL INSTALLATION IS FULLY FUNCTIONAL AND EACH COMPONENT IS COMPATIBLE WITH ALL OTHER DEVICES. WHERE NECESSARY, CONTRACTOR SHALL ADJUST THE INSTALLATION DURING STARTUP TO REPLACE INCOMPATIBLE LIGHTING SOURCES, DIMMERS, ETC., TO ENSURE FULLY FUNCTIONALITY IS ACHIEVED.		MINIMUM WIRE SIZE SHALL BE #12 THWN (OR THHN) SOLID COPPER; OVER 75' RUNS SHALL BE MINIMUM #10 THWN COPPER UNLESS NOTED OTHERWISE ON THE PLANS. WIRE COLOR CODING SHALL BE COORDINATED THROUGHOUT THE ENTIRE PROJECT/BUILDING FOR NEW AND EXISTING SYSTEMS. CONDUCTOR AMPACITY SHALL BE DERATED IN ACCORDANCE WITH NEC ARTICLE 310.	
WIRING - NUMBER OF WIRES REQUIRED		CONDUCTOR MATERIAL SHALL BE COPPER. THE USE OF ALUMINUM CONDUCTORS IS PROHIBITED.	
THE NUMBER OF WIRES FOR LIGHTING AND RECEPTACLE BRANCH CIRCUITS IS NOT SHOWN ON THE DRAWINGS. THE NUMBER OF WIRES IN ANY CIRCUIT SHALL BE DETERMINED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AND WIRING SHALL BE PROVIDED TO PERFORM ALL FUNCTIONS OF THE DEVICES BEING INSTALLED. ADDITIONALLY, WIRES SHALL BE PROVIDED AS REQUIRED BY THE CONTRACT DOCUMENTS, I.E. EQUIPMENT GROUNDS, ETC. PROVIDE THE NUMBER OF WIRES REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM.		WIRES SHALL BE INSTALLED IN CONDUIT.	
PAINTING, FINISHING		CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND NO SPLICES SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES. JUNCTION BOXES MAY BE USED WHERE REQUIRED.	
PAINTING OF ELECTRICAL WORK EXPOSED IN OCCUPIED SPACES, EXCEPT MECHANICAL AND ELECTRICAL MACHINE ROOMS AND MAINTENANCE SERVICE SPACES, AND WORK EXPOSED ON THE EXTERIOR IS SPECIFIED AND PERFORMED UNDER OTHER DIVISIONS OF THESE SPECIFICATIONS.		THE USE OF NON-METALLIC SHEATHED CABLE TYPE NM OR NMC, ARMORED-BUSHED CABLE (BX), METAL-CLAD CABLE (MC), AND ARMOR-CLAD CABLE (AC) IS PROHIBITED.	
FACTORY FINISHES, SHOP PRIMING, AND SPECIAL PROTECTIVE COATINGS ARE SPECIFIED IN THE INDIVIDUAL EQUIPMENT SPECIFICATION SECTIONS.		GROUNDING	
WHERE FACTORY FINISHES ARE PROVIDED ON EQUIPMENT AND NO ADDITIONAL FIELD PAINTING IS SPECIFIED, MARRED OR DAMAGED SURFACES SHALL BE TOUCHED UP OR REFINISHED SO AS TO LEAVE A SMOOTH, UNIFORM FINISH AT THE TIME OF FINAL INSPECTION.		GREEN GROUND CONDUCTOR SHALL BE INSTALLED IN EACH CONDUIT.	
SLEEVES, SEALS AND ROOF SUPPORTS			
SLEEVES SHALL BE USED TO ACCOMMODATE CONDUIT OR TUBING WHERE CONDUIT OR TUBING PASSES THROUGH CONCRETE SLABS.			
SLEEVES THROUGH FLOORS SHALL BE BLACK IRON PIPE, FLUSH WITH WALLS OR FINISHED FLOORS; AND OF SIZES TO ACCOMMODATE THE RACEWAYS SHOWN. SLEEVES THROUGH OUTSIDE WALLS ABOVE GRADE SHALL BE CAULKED WITH APPROVED CAULKING COMPOUND TO BE MADE WEATHERTIGHT. SLEEVES SHALL NOT BE REQUIRED THROUGH ON GRADE SLABS. SLEEVES THROUGH FLOORS SHALL EXTEND ABOVE FLOOR TO AN ELEVATION THAT WOULD PREVENT FLOODING OF LOWER FLOORS, MINIMUM 4".			
INSTALL MANUFACTURED FLOOR AND THRUWALL SEALS, SIMILAR TO TYPE "FSK" AS MANUFACTURED BY O.Z. ELECTRIC MANUFACTURING COMPANY.			
ROOF SUPPORTS FOR CONDUITS TO BE EQUIVALENT TO PORTABLE PIPE HANGER, INC. TYPE PP-10, WITH ROLLER GUIDE SUPPORT FOR SINGLE PIPES AND CHANNEL GUIDE SUPPORT FOR MULTIPLE PIPES. SUPPORTS TO HAVE HIGH DENSITY POLYPROPYLENE PLASTIC BASE WITH THREADED RODS FOR ADJUSTABLE HEIGHT ROLLER. SUPPORTS ARE TO SIT ON TOP OF ROOFING MEMBRANE. SUPPORTS ARE TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION AND TO BE COMPATIBLE WITH AND MAINTAIN THE INTEGRITY OF THE EXISTING OR NEW ROOF SYSTEM.			
SEALS SHALL BE PROVIDED AROUND CONDUITS AND CABLES WHICH PENETRATE SMOKE WALLS, FIRE WALLS, AND FLOORS. NELSON FLAMESEAL, 3M, OZ GEDNEY OR APPROVED EQUAL UL LISTED SYSTEM SHALL BE USED TO SEAL PENETRATIONS OF ELECTRICAL CABLES AND CONDUITS.			
ACCESS PANELS			
FURNISH AND INSTALL PANELS FOR ACCESS TO JUNCTION BOXES AND SIMILAR ITEMS WHERE NO OTHER MEANS OF ACCESS, SUCH AS A READILY REMOVABLE, SECTIONAL CEILING IS SHOWN OR SPECIFIED.			
PANELS SHALL NOT BE LESS THAN 12-INCHES BY 16-INCHES IN SIZE. LARGER PANELS SHALL BE FURNISHED WHERE REQUIRED. PANELS IN TILE OR OTHER SIMILAR PATTERNED CEILINGS SHALL HAVE DIMENSIONS CORRESPONDING TO THE TILE OR PATTERN MODULE.			
ACCESS PANELS SHALL BE FLUSH TYPE AND OF STEEL CONSTRUCTION, WITH NO. 16 GAUGE WALL OR CEILING FRAME FOR MASONRY OR PLASTER AND A NO. 14 GAUGE PANEL DOOR. DOORS SHALL BE SECURED WITH CONCEALED HINGES AND FLUSH LOCKS OF EITHER THE CYLINDER TYPE OR APPROVED, POSITIVE ACTING, SCREWDRIIVER OPERATED TYPE. DOORS FOR WALL PANELS MAY BE SECURED WITH SUITABLE CLIPS AND COUNTERSUNK SCREWS. PANELS SHALL BE PAINTED WITH A RUST-INHIBITIVE PRIMER AT THE FACTORY. ACCESS PANELS IN RATED WALLS OR CEILINGS SHALL BE PROVIDED WITH RATING OF THE SAME TYPE.			
ADJUSTING, ALIGNING, AND TESTING			
ADJUST, ALIGN, INSPECT, AND TEST ELECTRICAL EQUIPMENT FURNISHED AND INSTALLED INCLUDING ELECTRICAL EQUIPMENT FURNISHED BY OTHERS FOR INSTALLATION OR WIRING UNDER THIS DIVISION FOR PROPER OPERATION. TEST SYSTEMS AND EQUIPMENT ACCORDING TO THE REQUIREMENTS OF NETA ATS (LATEST EDITION) AND ANY ADDITIONAL REQUIREMENTS SPECIFIED HEREIN.			
MAINTAIN THE FOLLOWING ON THE PROJECT PREMISES: A RMS (TRUE) READING VOLTMETER, A TRUE RMS READING AMMETER, AS WELL AS A MEGOHMMETER INSULATION RESISTANCE TESTER. PROVIDE TEST DATA READINGS AS REQUESTED OR AS REQUIRED BY THE ENGINEER.			
PROTECTION			
PROTECTION OF EXISTING EQUIPMENT AND FACILITIES SHALL BE PROVIDED AND COORDINATED WITH THE OWNER.			
ELECTRICAL-MECHANICAL EXTENT OF WORK			
THE RESPONSIBILITY OF WORK SPECIFIED UNDER TRADES IS CLARIFIED WITH THE GENERAL CONDITIONS, ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. CONTRACTOR IS TO COORDINATE ALL ELECTRICAL REQUIREMENTS PRIOR TO ORDERING POWERED MECHANICAL EQUIPMENT. GENERAL CONDITIONS AND RESPONSIBILITIES ARE INCORPORATED HEREIN BY REFERENCE.			
CUTTING AND PATCHING			
CUTTING AND PATCHING WHICH MUST BE DONE, IN ORDER THAT THE ELECTRICAL WORK MAY BE PROPERLY INSTALLED, SHALL BE DONE BY APPROPRIATE TRADESMEN. DISTURBED CONSTRUCTION, SURFACES OR FINISHES MUST BE REPLACED OR REPAIRED TO THE ARCHITECTS SATISFACTION AT THIS CONTRACTOR'S EXPENSE. UNDER NO CONDITION SHALL STRUCTURAL WORK BE CUT EXCEPT UPON APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.			
PLENUM			
SOME OR ALL CEILING SPACES ARE RETURN AIR PLENUMS. EXAMINE PLENUM BEFORE CEILING IS INSTALLED (OR REPLACED) AND SEAL OPENINGS AROUND CONDUIT, CABLE, ETC. PROVIDE PLENUM RATED CABLE (UNLESS IN CONDUIT), DEVICES AND EQUIPMENT PER CODE.			
COORDINATION			
COORDINATE THE LOCATIONS AND PURCHASING OF EQUIPMENT BETWEEN OTHER TRADES TO ENSURE PROPER INTERFACING AND PLACEMENT OF EQUIPMENT REQUIRING ELECTRICAL POWER AND/OR LOW VOLTAGE CONNECTIVITY.			
COOPERATE FULLY WITH OTHER TRADES. DO WORK NORMALLY DONE BY THE ELECTRICAL TRADES OR REQUIRED BY LOCAL JURISDICTIONAL RULINGS, WHETHER SPECIFICALLY INDICATED OR NOT.			
COORDINATE OTHER WORK OF THE DIFFERENT TRADES SO THAT:			
INTERFERENCE BETWEEN MECHANICAL, ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL WORK, INCLUDING EXISTING SERVICES, IS AVOIDED.			
WITHIN THE LIMITS INDICATED ON THE DRAWINGS, THE MAXIMUM PRACTICAL SPACE FOR OPERATION, REPAIR, REMOVAL AND TESTING OF ELECTRICAL, AND OTHER EQUIPMENT WILL BE PROVIDED.			
PIPE, CONDUITS, DUCTS, AND SIMILAR ITEMS SHALL BE KEPT AS CLOSE AS POSSIBLE TO CEILINGS, WALLS, COLUMNS, TO TAKE UP A MINIMUM AMOUNT OF SPACE. PIPES, CONDUITS, DUCTS, AND SIMILAR ITEMS SHALL BE LOCATED SO THAT THEY WILL NOT INTERFERE WITH THE INTENDED USE OF OTHER EQUIPMENT.			
ANY CHANGES IN THE LOCATION OF THE EQUIPMENT, ETC., FROM THOSE SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT CHARGE IF SO DIRECTED BY THE ARCHITECT/ENGINEER/OWNER BEFORE INSTALLATION.			
COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS (VOLTAGES, PHASE, LOAD, ETC.) WITH OTHER TRADES TO AVOID CONFLICTS.			
REFER TO PLANS OF OTHER TRADES FOR ADDITIONAL ELECTRICAL WORK AND REQUIREMENTS. FURNISH, INSTALL AND LOCATE DISCONNECT SWITCHES AT EQUIPMENT/MOTOR LOCATION, AS REQUIRED, AND IN ACCORDANCE WITH CODE.			
LAYOUT IS DIAGRAMMATIC AND CONTRACTOR SHALL INSTALL DEVICES, CONDUIT AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS.			
CONDUIT, LIGHTING, EQUIPMENT, ETC. SHALL NOT BE SUPPORTED FROM THE BOTTOM CHORD OF ENGINEERED JOISTS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. CONDUITS, ROUTED THROUGH AREAS WITH NO CEILING, SHALL BE ROUTED WITHIN THE WEBBING OF THE JOISTS AND SHALL NOT BE ROUTED BELOW THE BOTTOM CHORD OF THE JOIST.			
VERIFY EXISTING AND NEW MECHANICAL, ELECTRICAL, FIRE PROTECTION SYSTEMS, PLUMBING AND OTHER SERVICES PRIOR TO START OF NEW CONSTRUCTION. COORDINATE AND ADJUST NEW WORK AS REQUIRED TO AVOID CONFLICTS WITH EXISTING SERVICES AND NEW SERVICES PROVIDED BY OTHERS.			
PROVIDE CONDUIT AND WIRE AND MAKE FINAL POWER CONNECTIONS AS REQUIRED TO EXHAUST FANS AND MISCELLANEOUS EQUIPMENT FURNISHED WITH MOTORIZED BACKDRAFT DAMPERS. DAMPERS SHALL BE CONNECTED TO EQUIPMENT 120 VOLT POWER CIRCUIT SO AS TO INTERLOCK THE MOTORIZED DAMPER WITH THE EXHAUST FAN. FOR THREE PHASE MOTORS, PROVIDE AN ADDITIONAL 120 VOLT CIRCUIT ROUTED THROUGH AN AUXILIARY CONTACT IN THE MOTOR STARTER.			
OUTAGES			
OUTAGES SHALL BE SCHEDULED AND APPROVED BY THE OWNER. 72 HOUR MINIMUM ADVANCED NOTICE. REFER TO FRONT END SPECIFICATIONS FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL SUBMIT IN WRITING A DOCUMENT INDICATING THE TIMES OF DAY AND DURATION OF ELECTRICAL OUTAGES.			
ASBESTOS			
CONTRACTOR TO FIELD VERIFY IF EXISTING ASBESTOS WILL BE ENCOUNTERED PRIOR TO STARTING ANY WORK. IF ASBESTOS IS PRESENT, THE OWNER WILL PROVIDE FOR THE REMOVAL OF ANY MATERIAL CONTAINING ASBESTOS.			
COMMISSIONING			
CONTRACTOR SHALL PROVIDE THE ENGINEER WRITTEN CERTIFICATION AND RESULTS OF THE FUNCTIONAL TESTING (IN A WRITTEN REPORT INCLUDING REQUIRED DRAWINGS AND O&M MANUALS) OF THE LIGHTING CONTROLS. COMMISSIONING SHALL BE IN COMPLIANCE WITH IECC 2018. CONTRACTOR SHALL INCLUDE IN THE WRITTEN DOCUMENTATION THE DEFERRED AND FOLLOWUP ACTIONS REQUIRED BASED UPON THE COMMISSIONING. COMMISSIONING DOCUMENTATION SHALL BE SUBMITTED WITHIN 90 DAYS OF CERTIFICATE OF OCCUPANCY.			
AS-BUILT DRAWINGS			
CONTRACTOR SHALL PROVIDE THE OWNER AS-BUILT DRAWINGS FOR SYSTEMS INCLUDING ELECTRICAL AND SPECIAL SYSTEMS DESCRIBED IN SPECIFICATIONS. THIS SHALL CONSIST OF DRAWINGS, WIRING SCHEMATICS, AND DIAGRAMS FOR THE FIRE ALARM, TELEPHONE AND DATA SYSTEMS, AS WELL AS, ANY CHANGE TO THE SYSTEMS SHOWN ON THE DRAWINGS.			
PROVIDE OWNER IN A BOUND FORM TWO (2) SETS OF OPERATIONS, MAINTENANCE AND INSTRUCTION MANUALS INCLUDING INFORMATION ON SPARE PARTS, LUBRICATION SCHEDULE, WIRING DIAGRAMS, ETC., FOR MATERIALS AND EQUIPMENT. PROVIDE OWNER TWO (2) SETS OF ACCURATELY MARKED "AS BUILT" PRINTS, AND ELECTRONIC FILE OF AS-BUILTS.			
WARRANTY			
WARRANTY ANY DEFECTS TO EQUIPMENT, MATERIALS AND LABOR FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING BY THE ARCHITECT AND ENGINEER. DEFECTIVE FIXTURES, EQUIPMENT AND MATERIALS SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER. GUARANTEE THAT WORKMANSHIP IS OF HIGH QUALITY AND THAT EQUIPMENT FURNISHED UNDER THIS CONTRACT FULFILLS THE REQUIREMENTS OF THE SPECIFICATIONS. CONDUCT, AT NO COST TO THE OWNER, TESTS ON ANY EQUIPMENT FURNISHED WHEN SO REQUESTED BY THE ARCHITECT OR HIS REPRESENTATIVE WITHIN THE ONE YEAR PERIOD.			
260503 WORK IN EXISTING CONDITIONS			
GENERAL REQUIREMENTS			
VISIT SITE PRIOR TO BID TO DETERMINE AND VERIFY EXISTING INTERIOR AND EXTERIOR ELECTRICAL SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE FULL EXTENT OF DEMOLITION WORK. CONTRACTOR SHALL INCLUDE IN HIS BID NECESSARY MODIFICATIONS TO THE EXISTING CONDITIONS (INCLUDING CEILINGS, WALLS, FLOORS, PIPES, CONDUIT, ROOF WORK, ETC.) AS REQUIRED, TO ALLOW FOR PROPER INSTALLATION OF HIS WORK. ADJUST INSTALLATIONS TO MEET FIELD CONDITIONS AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE ANY CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED. EXISTING EQUIPMENT, CONDUIT, PIPING, ETC. SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK.			
TEMPORARY SERVICES ARE TO BE PROVIDED TO MAINTAIN OPERATION OF FACILITY DURING THE PHASING OF WORK WHENEVER REQUIRED.			
CONTRACTOR IS RESPONSIBLE FOR REMOVING EXISTING CEILINGS REQUIRED FOR INSTALLATION OF NEW WORK. CONTRACTOR SHALL RECORD ANY CEILING MATERIALS WITH EXISTING DAMAGE PRIOR TO START OF WORK. CONTRACTOR IS TO REINSTALL CEILING UPON COMPLETION OF WORK AND REPAIR ANY NEWLY DAMAGED CEILING MATERIALS TO MATCH ADJACENT EXISTING SURFACES.			
EXISTING UTILITIES WITHIN THE CONTRACT LIMITS SHALL BE REROUTED AND/OR ABANDONED AS SHOWN ON THE DRAWINGS AND AS REQUIRED.			
CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING CEILINGS NOT BEING REPLACED (INCLUDING LIGHTS, MOTOR SENSORS, FIRE ALARM DEVICES AND ANY OTHER ELECTRICAL DEVICES AS REQUIRED), WHERE NECESSARY TO PERFORM CONTRACTOR'S WORK. THIS ALSO INCLUDES EXISTING CEILINGS OF PLASTER, DRYWALL, ETC. COORDINATE WITH OTHER TRADES' WORK IN ANY CEILING SPACE SO AS TO MINIMIZE THE CEILINGS WHICH MUST BE REMOVED AND REINSTALLED. CONTRACTOR SHALL REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS IN ORDER TO FULLY UNDERSTAND AND INCLUDE IN HIS BID ANY CEILING WORK NECESSARY FOR CONTRACTORS' WORK ON THE PROJECT. WHEN WORK IS COMPLETED IN THIS SPACE, TRADE CONTRACTOR SHALL REINSTALL OR PATCH EXISTING CEILINGS, REINSTALL DEVICES AND EQUIPMENT AND REPAIR DAMAGE AS REQUIRED TO COMPLETELY MATCH EXISTING CONDITIONS. EACH CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY DAMAGE CAUSED TO EXISTING CEILING AREAS CAUSED BY THIS CONTRACTOR.			
SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES, INCLUDING FIRE ALARM AND OTHER SPECIAL SYSTEMS, ELECTRICAL POWER DISTRIBUTION, ETC. REQUIRED SHUTDOWN OF EXISTING FACILITY UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL. NOTIFY OWNER'S REPRESENTATIVE 7 DAYS IN ADVANCE AND OBTAIN WRITTEN APPROVAL FROM OWNER PRIOR TO ANY SHUTDOWN OF EXISTING SYSTEMS			
ANY HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR ANY REQUIRED CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR REVIEW AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.			
WHERE NEW CIRCUIT BREAKERS, FUSES AND SWITCHES ARE TO BE ADDED TO EXISTING PANELBOARDS, SWITCHBOARDS, ETC., THEY SHALL BE OF THE SAME MANUFACTURER AND DESIGN AS THE EXISTING BREAKERS OR SWITCHES IF NOT OBSOLETE AND SHALL BE OF THE SIZES AS INDICATED. REARRANGE CIRCUIT BREAKERS WITHIN THE EXISTING EQUIPMENT TO ACCOMMODATE THE NEW CIRCUIT BREAKERS OR SWITCHES. BRANCH CIRCUIT NUMBERS ASSIGNED TO EXISTING PANELBOARDS ARE ARBITRARY AND ARE INTENDED TO IDENTIFY BRANCH CIRCUIT REQUIREMENTS ONLY. ACTUAL PANEL NUMBER ASSIGNMENTS FOR DESIGNATED BRANCH CIRCUITS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS. PROVIDE ADDITIONAL BUS, BUS EXTENSION, BOLTS AND HARDWARE, ENCLOSURE MODIFICATIONS, DIRECTORY MODIFICATIONS, ETC., AS REQUIRED TO ACCOMPLISH THE WORK.			
EXISTING CIRCUITRY NOT INTERRUPTED BY THE WORK SHALL REMAIN AS IS UNLESS SPECIFICALLY NOTED OTHERWISE.			
EXISTING CIRCUITRY (TO REMAIN) INTERRUPTED BY THE WORK SHALL BE PROPERLY RECONNECTED AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.			
EXISTING CONDUIT MAY BE REUSED (CONTRACTOR'S OPTION) WHEREVER POSSIBLE. REMOVE EXISTING BRANCH CIRCUIT WIRING AND INSTALL NEW AS SHOWN OR AS REQUIRED WHERE CIRCUITS ARE INTERRUPTED AND TO BE EXTENDED TO PANELS.			
CONTRACTOR SHALL PROVIDE NEW PANEL DIRECTORIES IN EXISTING PANELBOARDS AND NEW PANELBOARDS TO CORRECTLY IDENTIFY EXISTING AND NEW LOADS. FINAL DIRECTORIES SHALL BE TYPE WRITTEN.			
WHERE CONDUITS ARE TO BE INSTALLED IN EXISTING WALLS, CUT A SUITABLE CHASE FOR PROPERLY CONCEALING CONDUIT, FITTINGS AND OUTLET BOXES, EXCEPT THAT WHEREVER POSSIBLE, USE EXISTING VOIDS TO FISH CONDUITS DOWN WALLS. CUT OPENINGS FOR BOXES AS REQUIRED, EXERCISING CARE TO PRESERVE EXISTING FINISHES.			

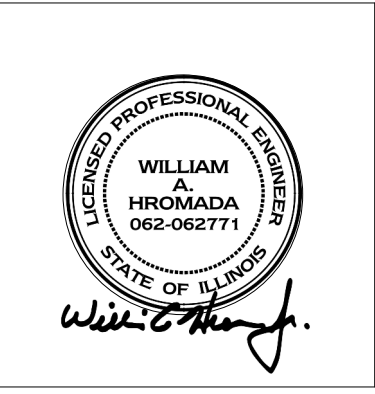


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SPECIFICATIONS			SPECIFICATIONS				
2.1	GROUNDING AND BONDING OF ELECTRICAL CIRCUIT AND EQUIPMENT SHALL BE ACCOMPLISHED AS SET FORTH IN THE NEC. FURNISH AND INSTALL A GREEN GROUND WIRE IN POWER AND LIGHTING CONDUITS. SERVICES, DEVICES, EQUIPMENT, FIXTURES AND THE LIKE, MUST BE GROUNDED. MECHANICAL/ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL BE MAINTAINED.		F.	RECEPTACLES. RECEPTACLES SHALL BE SIDE AND BACK WIRED, SELF-GROUNDING OF THE TYPE INDICATED AS FOLLOWS:	12.3	LOW VOLTAGE/COMMUN-CATIONS EQUIPMENT AND CABLING SHALL BE PROVIDED BY OTHERS.	
				SIMPLEX RECEPTACLES 20A-125V (GROUNDING TYPE)		12.4	LOW VOLTAGE/COMMUNICATIONS OUTLETS SHALL BE MOUNTED SAME HEIGHTS AS ADJACENT RECEPTACLE OR AS NOTED ON DRAWINGS. COVERPLATES SHALL MATCH ELECTRICAL DEVICE PLATES.
3.	LIGHTING PANELS			SPECIAL PURPOSE RECEPTACLE		12.5	CONDUIT INSTALLED FOR LOW VOLTAGE SYSTEMS SHALL BE COORDINATED WITH THE LOW VOLTAGE INSTALLER IN FIELD. PRIOR TO ROUGH-IN, SUCH CONDUIT SHALL BE ROUTED TO MINIMIZE CABLE LENGTH AND COMPLY WITH LOW VOLTAGE CABLING DISTANCE LIMITATIONS.
3.0	LIGHTING PANELBOARDS SHALL BE SQUARE D TYPE NQOB FOR 277/480 VOLT OR 120/208 VOLT PANELS. PROVIDE TYPE PANELS IN ACCORDANCE WITH REQUIREMENTS LISTED ON THE DRAWINGS. BRANCH CIRCUIT BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK, TRIP INDICATING AND COMMON TRIP ON MULTIPLE BREAKERS, AND SHALL BE BOLT-ON TYPE. TRIP INDICATION SHALL BE CLEARLY SHOWN BY BREAKER HANDLE TAKING POSITION BETWEEN "ON" AND "OFF" POSITIONS. PANELBOARDS SHALL HAVE DISTRIBUTED PHASE COPPER BUSSING THROUGHOUT AND SHALL HAVE A WITHSTAND RATING OF 22,000 AIC. LIGHTING PANELS SHALL HAVE COMBINATION CARD HOLDER AND NAMEPLATE AND SHALL BE EQUIPPED WITH TYPEWRITTEN DIRECTORIES THAT IDENTIFY LOADS SERVED AND SPARE CIRCUITS. PANELS SHALL BE PROVIDED WITH A COPPER GROUND BUS AND SHALL BE UNDERWRITERS' LABORATORY APPROVED AND SHALL BEAR THE UL LABEL. THE SIZE OF THE PANELBOARD MAIN PROTECTIVE DEVICE OR MAIN LUGS, THE SIZE, TYPE AND THE NUMBER OF BRANCH CIRCUITS AND THE TYPE OF MOUNTING SHALL BE AS SHOWN ON THE DRAWINGS.			FLUSH IN FLOOR DUPLEX RECEPTACLE 20A-125V (GROUNDING TYPE) SB3083 / S3825 BRASS FLANGE AND COVER		12.6	CONTRACTOR SHALL REFER TO THE ENTIRE SET OF CONTRACT DOCUMENTS INCLUDING ARCHITECTURAL AND OTHER TRADES PLANS TO FULLY COORDINATE RACEWAY AND ROUGH-IN REQUIREMENTS FOR LOW VOLTAGE SYSTEMS.
4.	LOW VOLTAGE CIRCUIT PROTECTIVE DEVICES			DUPLEX GFCI RECEPTACLE 20A-125V (GROUNDING TYPE)		13.	FIRE ALARM
4.0	PROTECTIVE DEVICES AS SHOWN SHALL BE MOLDED CASE CIRCUIT BREAKERS, BUILT, TESTED AND UL LABELED PER UL 488 AND MATCH THE AIC RATING OF THE SPECIFIED EQUIPMENT.			DUPLEX TAMPER RESISTANT 20A-125V (GROUNDING TYPE)		13.0	CONTRACTOR SHALL MODIFY EXISTING FIRE ALARM SYSTEM AS INDICATED AND AS REQUIRED FOR A COMPLETE, CODE COMPLIANT INSTALLATION. FURNISH AND INSTALL INTERFACE WIRING INTEGRAL TO THE FIRE ALARM SYSTEM AS WELL AS INTERFACE TO NEW ELEVATOR CONTROL PANEL, BUILDING AUTOMATION SYSTEM, ETC. FOR A COMPLETE AND OPERATING INSTALLATION. ANY QUESTIONS REGARDING THE REQUIREMENTS OF THE FIRE ALARM SYSTEM OR THE INTENT OF THE CODE SHALL BE DIRECTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO BID.
5.	SAFETY SWITCHES			DUPLEX CONVENIENCE RECEPTACLES 20A-125V (GROUNDING TYPE)		13.1	FIRE ALARM LAYOUTS ARE PROVIDED FOR BIDDING AND SCOPING PURPOSES ONLY. CONTRACTOR SHALL PROVIDE FINAL ENGINEERED FIRE ALARM SYSTEM DESIGN AND SUBMIT FOR APPROVAL AS REQUIRED BY THE LOCAL AUTHORITY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FULLY COORDINATED DESIGN AND INCLUDE COMPONENTS AND ACCESSORIES AS NECESSARY TO INTERFACE TO COMPONENTS PROVIDED BY OTHER TRADES.
5.0	FURNISH AND INSTALL HEAVY DUTY TYPE SAFETY SWITCHES HAVING THE ELECTRICAL CHARACTERISTICS, RATINGS AND MODIFICATIONS SHOWN ON THE DRAWINGS. SWITCHES SHALL BE NEMA 1 HEAVY DUTY (INDOOR) ENCLOSURES UNLESS OTHERWISE NOTED. HANDLE THAT IS PADLOCKABLE IN "OFF" POSITION, NON-FUSIBLE, POSITIVE QUICK-MAKE, QUICK-BREAK MECHANISM, AND UL APPROVED AND SHALL BEAR THE UL LABEL. SAFETY SWITCHES AT EQUIPMENT BEING FED FROM THE INITIAL SERVICE POINT (MDP OR MSWB) SHALL BE FUSED TYPE SAFETY SWITCHES.			WEATHERPROOF DUPLEX RECEPTACLES 20A-125V (GROUNDING TYPE)		13.2	THE MINIMUM DISTANCE BETWEEN SMOKE OR HEAT DETECTORS AND CEILING MOUNTED SUPPLY DIFFUSERS SHALL BE A MINIMUM OF 4 FEET AND WALL MOUNTED DIFFUSERS SHALL BE 10 FEET. COORDINATE WITH CONTRACTOR AS REQUIRED.
6.0	MANUFACTURERS		G.	WEATHERPROOF DUPLEX GFI 20A-125V (GROUNDING TYPE)		13.3	SMOKE OR HEAT DETECTORS SHALL BE SURFACE MOUNTED TO CEILING, ROOF DECK MATERIALS, ETC. IN LIEU OF MOUNTING TO BOTTOM CHORD OF ENGINEERED JOIST OR ANY OTHER COMPONENTS NOT AN INTEGRAL PART OF THE HORIZONTAL CEILING.
6.0	PANELBOARDS, TRANSFORMERS, SAFETY SWITCHES, MOTOR CONTROLLERS, AND LOCK-OUT PUSHBUTTONS MANUFACTURED BY SQUARE D, EATON, SIEMENS OR ABB ARE ACCEPTABLE. MAJOR COMPONENTS SHALL BE OF THE SAME MANUFACTURER.			USB CHARGING OUTLET ONE TYPE A AND ONE TYPE C PORT		13.4	THE FLASH RATES FOR FIRE ALARM STROBES SHALL BE SYNCHRONIZED. COORDINATE ADDITIONAL REQUIREMENTS WITH NFPA 72. AUDIBLE SIGNALS SHALL BE SYNCHRONIZED.
7.	NAMEPLATES					13.5	AT NEW SMOKE OR SMOKE/FIRE DAMPER LOCATIONS, TRADE CONTRACTOR SHALL WIRE EACH SMOKE/FIRE DAMPER TO NEAREST EMERGENCY PANEL, TO LOCAL ACTIVATION SMOKE DETECTORS ON EITHER SIDE OF THE DAMPER (WITHIN 3'-0") AND ALSO WIRE THE SAME TO THE FIRE ALARM CONTROL PANEL AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR LOCATIONS WHERE DUCTS PASS THROUGH SMOKE OR FIRE BARRIERS.
7.0	NAMEPLATES SHALL BE PROVIDED FOR ITEMS SUCH AS PANELBOARDS, CABINETS, MOTOR CONTROLLERS (STARTERS), SAFETY SWITCHES, SEPARATELY ENCLOSED CIRCUIT BREAKERS, INDIVIDUAL BREAKERS AND CONTROLLERS IN SWITCHBOARDS AND MOTOR CONTROL CENTERS, CONTROL DEVICES AND OTHER SIGNIFICANT EQUIPMENT.			SINGLE SERVICE (POWER OR LOW VOLTAGE) FLOOR BOX		13.6	NECESSARY EQUIPMENT FOR A COMPLETE AND WORKABLE SYSTEM SHALL BE PROVIDED, INCLUDING BATTERY CHARGER, SUPERVISED TROUBLE, ALARM, ZONE INDICATORS, RESET SWITCH AND FOUR NORMALLY OPEN AND TWO NORMALLY CLOSED AUXILIARY CONTACTS. (3 OPEN FOR FIRE ALARM, 1 OPEN FOR FIRE ALARM TROUBLE, OPEN CONTACTS FOR CONNECTION TO BUILDING AUTOMATION SYSTEM.) PROVIDE WIRING IN CONDUIT (PAINTED RED), 1/2" MINIMUM.
A.	NAMEPLATES SHALL BE 1" X 2-1/2" LAMINATED BLACK PHENOLIC RESIN WITH A WHITE CORE WITH ENGRAVED LETTERING, A MINIMUM OF 3/16-INCH HIGH.			DUAL SERVICE (POWER OR LOW VOLTAGE) FLOOR BOX		13.7	OPERATION SHALL INCLUDE AUTOMATIC SHUTDOWN OF AIR-HANDLERS AND CLOSING OF SMOKE DAMPERS. EXISTING OPERATIONS AT EXISTING AREAS SHALL REMAIN.
B.	NAMEPLATES SHALL IDENTIFY THE EQUIPMENT ITEM THAT THE DEVICE IS SERVING. FOR TRANSFORMERS, SAFETY SWITCHES, STARTERS, SEPARATELY ENCLOSED CIRCUIT BREAKERS AND THE LIKE THE NAMEPLATE SHALL ALSO BE LABELED FROM WHERE THE DEVICE IS BEING FED FROM.		H.	6" DIAMETER FRPT FOR DUAL SERVICE			END OF SECTION 260000
8.	LIGHT FIXTURES			4" DIAMETER FRPT FOR SINGLE SERVICE			
8.0	FURNISH AND INSTALL LIGHT FIXTURES (UL LISTED) AS SHOWN ON THE DRAWINGS. VERIFY CEILING STYLES/FRAMES AND TYPES BEFORE ORDERING FIXTURES AND CEILING MOUNTED DEVICES. PROVIDE APPROPRIATE STYLES/FRAMES AS REQUIRED TO MATCH CEILING STYLE AND TYPES.		I.	TAMPER RESISTANT DEVICES SHALL BE INSTALLED WHERE REQUIRED BY NEC AND AS SHOWN ON CONTRACT DOCUMENTS.			
8.1	RECESSED LIGHT FIXTURES SHALL BE PROVIDED WITH THERMAL PROTECTION PER N.E.C. FIXTURES SHALL BE IC RATED WHERE LOCATED IN DIRECT CONTACT WITH INSULATION.		J.	DEVICES. FURNISH AND INSTALL DEVICES IN THE COLOR AS SELECTED BY ARCHITECT.			
8.2	COORDINATE LIGHTING LAYOUTS WITH CEILING REGISTERS, GRILLES, DIFFUSERS, SPRINKLER HEADS AND CEILING GRID (SEE ARCHITECTURAL REFLECTED CEILING PLAN). VERIFY LOCATION WITH OWNER'S REPRESENTATIVE IN FIELD PRIOR TO INSTALLATION.		K.	PLATES. FURNISH AND INSTALL WALL PLATES FOR WIRING DEVICES. PLATES FOR FLUSH DEVICES SHALL BE OF THE FINISH, COLOR, AND MATERIAL AS SELECTED BY ARCHITECT. OVERSIZE PLATES ARE NOT ACCEPTABLE. WEATHERPROOF SWITCH PLATES SHALL BE CROUSE-HINDS DS185 TYPE. WHERE SWITCHES AND/OR RECEPTACLES ARE SHOWN ADJACENT TO EACH OTHER, PROVIDE A COMMON COVER PLATE FOR EACH GROUP OF DEVICES. COVERPLATES ARE NOT ALLOWED TO BE CUT. WEATHERPROOF IN USE COVERS SHALL BY TAYMAC METALLIC, SIZE AND TYPE AS REQUIRED.			
8.3	COORDINATE LIGHTING LAYOUTS WITH CEILING REGISTERS, GRILLES, DIFFUSERS, SPRINKLER HEADS AND CEILING GRID (SEE ARCHITECTURAL REFLECTED CEILING PLAN). VERIFY LOCATION WITH OWNER'S REPRESENTATIVE IN FIELD PRIOR TO INSTALLATION.		11.	VERIFY STYLE, FINISH, AND COLOR OF DEVICES AND PLATES WITH ARCHITECT PRIOR TO ORDERING.			
8.4	PROVIDE PLENUM RATED LIGHT FIXTURES IN PLENUM CEILING AREAS WHERE REQUIRED BY LOCAL OR NATIONAL CODES.			MOUNTING HEIGHTS TO CENTER LINE OF BOX AND ABOVE FINISHED FLOOR FOR THE BELOW-NAMED ITEMS SHALL BE AS FOLLOWS, UNLESS OTHERWISE SHOWN. OTHER DEVICE MOUNTING HEIGHTS SHALL BE AS SHOWN ON THE DRAWINGS.			
8.5	PROVIDE PROPER AND SUFFICIENT SUPPORT FOR FIXTURES AS REQUIRED FOR THE TYPE OF CEILING CONSTRUCTION. RECESSED AND SEMI RECESSED FIXTURES MAY BE SUPPORTED FROM SUSPENDED CEILING SUPPORT SYSTEM CEILING TEES IF THE CEILING SYSTEM SUPPORT RODS OR WIRES ARE PROVIDED WITH A MINIMUM OF FOUR RODS OR WIRES PER FIXTURE AND LOCATED NOT MORE THAN 6" FROM EACH CORNER OF EACH FIXTURE, AND PROVIDE SUPPORT CLIPS SECURELY FASTENED TO CEILING GRID MEMBERS, A MINIMUM OF ONE AT OR NEAR EACH CORNER OF EACH FIXTURE.		A.	FLUSH TUMBLER SWITCHES	48"		
8.6	CONDUITS RUN TO RECESSED LAY-IN FIXTURES SHALL TERMINATE IN A SUITABLE BOX ADJACENT TO FIXTURE OPENING WITH FINAL CONNECTIONS TO FIXTURE MADE WITH FLEXIBLE CONDUIT.		B.	SWITCHES IN CONCRETE BLOCK	46"		
8.7	PROVIDE A COMPLETE EXIT AND EMERGENCY LIGHTING SYSTEM WITH SEPARATE CONDUIT, WIRING, FIXTURES, AS INDICATED AND AS REQUIRED ON THE PLANS. DIRECTIONAL SIGNS AND EMERGENCY EGRESS LIGHTING FIXTURES SHALL BE OF THE TYPE, STYLE AND LOCATION REQUIRED BY THE LOCAL ELECTRICAL INSPECTION DEPARTMENT.		C.	CONVENIENCE OUTLETS	18" MOUNTED VERTICALLY WITH GROUND PRONG SLOT AT BOTTOM		
9.	LIGHTING CONTROLS		D.	SAFETY SWITCHES	48"		
9.0	LOW VOLTAGE CONTROLS		E.	MOTOR CONTROLLERS	48"		
A.	THE LIGHTING CONTROL SYSTEM SHALL BE A						

[illegible]

CALL CENTER SUITE
WILL COUNTY COMMUNITY HEALTH CENTER
1106 NEAL AVE.
JOLIET, ILLINOIS

DATE: 05/13/2024

REVISED:

PROJECT NO.
2402-01

SHEET	NUMBER
-------	--------

E6

OF SHEETS

OF SHEETS

LOW VOLTAGE CABLE AND TECHNOLOGY SPECIFICATIONS

PART 1 - GENERAL

- 1.1

THE CONTRACTOR SHALL FURNISH EQUIPMENT AND LABOR NECESSARY FOR AND REASONABLY INCIDENTAL TO THE COMPLETE INSTALLATION OF THE COMMUNICATIONS SYSTEMS AS OUTLINED IN THE FOLLOWING CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO:

A. DATA WIRING SYSTEMS.
- 1.2

INSTALLATION OF THE SYSTEMS SHALL BE AS OUTLINED IN THE FOLLOWING CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO:

A. SUBMISSION OF SHOP DRAWINGS, CATALOG SHEETS AND SAMPLES FOR APPROVAL.
B. VERIFICATION OF DIMENSIONS AND CONDITIONS AT PROJECT SITE.
C. INSTALLATION IN ACCORDANCE WITH CONTRACT DOCUMENTS, MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODE REQUIREMENTS.
D. INITIAL TEST AND ADJUSTMENTS, WRITTEN REPORT, DEMONSTRATION OF SYSTEMS FOR APPROVAL, PARTICIPATION IN ACCEPTANCE TESTS, FINAL ADJUSTMENTS AS REQUIRED, AND SUBMISSION OF FINAL DIAGRAMS AND OWNERS' MANUALS. DEMONSTRATION MUST BE VIDEOTAPED AND TWO (2) COPIES PROVIDED TO THE OWNER'S REPRESENTATIVE.
E. INSTRUCTION OF OPERATING PERSONNEL.
F. MAINTENANCE SERVICES FOR ONE (1) YEAR FOLLOWING ACCEPTANCE OF SYSTEMS.
- 1.3

THE ABOVE EQUIPMENT SHALL BE INSTALLED IN THE CONDUIT SYSTEMS AS INDICATED ON THE CONTRACT DOCUMENTS AND HEREINAFTER SPECIFIED. THE MANUFACTURER'S DISTRIBUTOR SHALL GUARANTEE THE ENTIRE SYSTEM FOR TWO (2) YEARS AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP.
- 1.4

INDIVIDUAL PANELS, HOUSINGS AND THE ENTIRE SYSTEM SHALL BEAR THE LABEL OF UNDERWRITERS' LABORATORIES. PROVIDE A COMPLETE SET OF OPERATING INSTRUCTIONS INCLUDING CIRCUIT DIAGRAMS AND OTHER INFORMATION NECESSARY FOR PROPER INSTALLATION, OPERATION, AND SERVICE MAINTENANCE.
- 1.5

PERFORM A QUALITY OBSERVATION OF FINAL INSTALLATION OF SYSTEMS HEREIN SPECIFIED AND, IN PRESENCE OF CONTRACTOR AND OWNER'S REPRESENTATIVE, PERFORM A FUNCTIONAL TEST OF EACH SYSTEM.
- 1.6

A WRITTEN SYSTEM CERTIFICATION VERIFYING PROPER SYSTEM OPERATION SHALL BE REQUIRED PRIOR TO ACCEPTANCE.
2.

PART 2 - PRODUCTS
- 2.1

PROVIDE DEVICES AND WIRING FOR INSTALLATION OF THE DATA WIRING SYSTEM AS DESCRIBED HEREIN AND AS SHOWN ON THE CONTRACT DOCUMENTS.
- 2.2

CABLING, RISERS, STATION WIRING, CROSS CONNECTS, OUTLETS, PATCH PANELS AND NECESSARY DEVICES SHALL CONFORM TO CATEGORY 6/LEVEL 7 STANDARDS AS DEFINED IN EIA/TIA-568B, TSB-36 AND TSB-40.
- 2.3

CONTRACT DOCUMENTS ARE WRITTEN FOR A PANDUIT/PANDUIT CONNECTIVITY SOLUTION. CONNECTIVITY SOLUTIONS MANUFACTURED BY LEVITON/SUPERIOR ESSEX AND BERKTEK/ORTRONICS SHALL BE CONSIDERED EQUAL IF THE EQUIPMENT SUBMITTED IS EQUAL IN EACH RESPECT.
- 2.4

THE OWNER SHALL FURNISH AND INSTALL THE LAN FILE SERVERS AND NETWORK ELECTRONICS.
- 2.5

ITEMS INCLUDING WIRING AND REQUIRED ACCESSORIES FOR THE DATA WIRING SYSTEM SHALL BE DESIGNED TO OPERATE AS A COMPLETE INTEGRATED SYSTEM.
- 2.6

THE SYSTEM SHALL MEET OR EXCEED APPLICABLE STATE AND LOCAL CODES.
- 2.7

THE DATA NETWORK WIRING SYSTEM SHALL MEET U.L. STANDARDS.
- 2.8

PROVIDE INFORMATION INDICATING A MINIMUM OF FIVE (5) YEARS EXPERIENCE AND A MINIMUM OF TWENTY (20) INSTALLATIONS OF THIS SIZE AND SCOPE. CONTRACTORS WHO DO NOT MEET THIS REQUIREMENT SHALL NOT BE CONSIDERED.
- 2.9

SUBMIT WITH THEIR BID THE FOLLOWING ADDITIONAL INFORMATION TO DETERMINE THE MOST RESPONSIVE PROPOSAL TO THESE CONTRACT DOCUMENTS:

A. DOCUMENTATION TO SUPPORT THE EXPERIENCE REQUIREMENTS LISTED ABOVE. THIS DOCUMENTATION SHALL INCLUDE THE NAME OF THE PROJECT, CONTACT PERSON WITH TELEPHONE NUMBER, CONTRACT DOLLAR AMOUNT, TOTAL DATA OUTLETS, CATEGORY OF CABLE AND PROJECT COMPLETION DATE. FAILURE TO SUBMIT THIS REQUIRED INFORMATION MAY RESULT IN REJECTION OF BID.
B. SUBMIT WITH THEIR BID THE NAME AND REGISTRATION NUMBER OF THE RCDD ON STAFF.
C. SUBMIT PROPER DOCUMENTATION TO PROVE MANUFACTURER'S CERTIFICATION FOR INSTALLATION OF PRODUCTS HEREIN.
- 2.10

THE CONTRACT SHALL BE AWARDED ON THE BASIS OF THE LOWEST AND MOST RESPONSIVE BID PROPOSAL COMPLYING WITH THE CONTRACT DOCUMENTS AND THE FOLLOWING CRITERIA:

A. REFERENCES.
B. EXPERIENCE WITH SIMILAR PROJECTS.
C. COMPLIANCE WITH CONTRACT DOCUMENTS.
D. FINANCIAL STRENGTH.
- 2.11

SUBMITTALS: FURNISH COMPLETE SHOP DRAWINGS ON THE VARIOUS COMPONENTS OF THE SYSTEM. THESE SUBMITTALS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

A. MARKED CATALOG SHEETS INDICATING PART NUMBERS AND MANUFACTURER.
B. RISER DIAGRAM FOR ENTIRE DATA WIRING SYSTEM.
C. EACH DRAWING SHALL HAVE A DESCRIPTIVE TITLE AND SUBPARTS OF EACH DRAWING SHALL BE COMPLETELY DESCRIBED. DRAWINGS SHALL HAVE THE NAME OF THE PROJECT AND ELECTRONICS CONTRACTOR IN THE TITLE BLOCK.
D. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL SUBMIT THREE COMPLETE COPIES OF AN OPERATING AND MAINTENANCE MANUAL FOR THE SYSTEMS.
- 2.12

DATA STATION OUTLETS: PROVIDE A FLUSH MOUNTED MODULAR DATA RJ45 JACK TO FIT IN A SINGLE GANG BOX FOR AN 8-POSITION/8-CONDUCTOR CONFIGURATION. THE OUTLETS SHALL MEET TRANSMISSION PERFORMANCE CONTRACT DOCUMENTS FOR CATEGORY 6 AS PRESENTED IN EIA/TIA TSB-36 AND TSB-40. THE RJ45 JACKS SHALL BE KEYED T568B.

A. DATA JACKS SHALL BE OF ONE (1) MANUFACTURER.
B. THE FINAL INSTALLATION SHALL BE TESTED TO MEET THE INSTALLED SYSTEM OVERHEAD AS PUBLISHED IN LITERATURE FROM PANDUIT CORPORATION. INSTALLATION NOT MEETING THIS REQUIREMENT SHALL BE COMPLETELY REMOVED AND REINSTALLED WITH NEW PRODUCT UNTIL THESE VARIABLES ARE MET AT FREQUENCIES.
C. DATA FRAMES SHALL CONTAIN 4 MODULAR OPENINGS. THESE UNITS TO BE THE SAME MANUFACTURER AS THE JACKS.
- 2.13

DEVICE COLOR SELECTION: DATA JACKS SHALL MATCH THE FURNITURE COLOR, WHEN MOUNTED IN FURNITURE, OR SHALL BE WHITE WHEN MOUNTED ON A WALL.

A. FINAL DETERMINATION OF COLORS OF DEVICES PROVIDED WITHIN THIS SECTION SHALL BE MADE DURING THE SHOP DRAWING PROCESS.
- 2.14

PATCH PANELS:

A. PROVIDE 48 PORT 110 PATCH PANELS THAT MEET TRANSMISSION PERFORMANCE FOR CATEGORY 6/LEVEL 7 AS OUTLINED IN EIA/TIA TSB-36 AND TSB-40. THE RJ45 JACKS SHALL BE KEYED T568B (WECO). PROVIDE 40% EXPANSION CAPABILITY.
1.

STANDARD: PANDUIT.

B. PROVIDE BOTH HORIZONTAL AND VERTICAL WIRE MANAGEMENT DEVICES TO PROPERLY RESTRAIN AND ORGANIZE CABLES PRIOR TO INSTALLATION. PROVIDE ONE (1) FOR EACH PATCH PANEL.

- 1.STANDARD: PANDUIT.

2.PROVIDE SUFFICIENT PATCH PANELS PLUS 40% EXPANSION REQUIRED TO DISTINCTLY SEPARATE THE COMPUTER LABS AND MAIN OFFICE ADMINISTRATION AREAS ON THEIR OWN PATCH PANELS.

3.VERTICAL WIRE MANAGEMENT SHALL BE MOUNTED BETWEEN EACH PATCH PANEL. HORIZONTAL WIRE MANAGEMENT SHALL BE MOUNTED ON EACH SIDE OF THE NEW RACK AND SHALL BE MOUNTED ON THE EXISTING RACK AS WELL.
- 2.15

DATA CABLE: TWISTED PAIR (UTP) EXTENDED DISTANCE PLENUM RATED LAN CABLE ISOC 24 AWG CATEGORY 6/LEVEL 7, SOLID BARE CU, FEP INSULATION, FLAMARREST KJT, 4 PAIR, UL TYPE CMP WITH TRANSMISSION CHARACTERISTICS THAT EXCEED THOSE IN EIA/TIA TSB-36 AND TSB-40 (CATEGORY 6) AND NEMA LOSS EXTENDED FREQUENCY 2.

A. THE DATA CABLES SHALL BE TERMINATED AT EACH OUTLET AND ON RACK MOUNTED PATCH PANELS IN THE NEW IDF RACK.

B. THE FINAL INSTALLATION SHALL BE TESTED TO MEET THE INSTALLED SYSTEM OVERHEAD AS PUBLISHED IN LITERATURE FROM PANDUIT CORPORATION. INSTALLATION NOT MEETING THIS REQUIREMENT SHALL BE COMPLETELY REMOVED AND REINSTALLED WITH NEW PRODUCT UNTIL THESE VARIABLES ARE MET AT FREQUENCIES.

C. DATA CABLING SHALL BE WHITE.

D. ALL CABLING SHALL BE MANUFACTURED IN THE USA AND SHALL MEET ALL IEEE STANDARDS.
- 2.16

PATCH CORDS: PROVIDE PATCH CORDS AS DESCRIBED BELOW AND AS REQUIRED PRIOR TO SUBMITTALS.

A. PROVIDE (2) CATEGORY 6 PATCH CORDS PER DATA OUTLET PLUS 20% SPARE. BLUE COLOR WITH MOLDED BOOTS. COORDINATE COLOR WITH OWNER. EXACT LENGTHS TO BE DETERMINED PRIOR TO ORDER, MINIMUM 6'-0".

B. STANDARD: PANDUIT

C. PROVIDE RJ45 TO 110 PATCH CORDS AS REQUIRED IN EACH IDF COMPLIANT WITH THE TRANSMISSION CONTRACT DOCUMENTS.
- 2.17

INSTALLATION:

A. CONDUIT AND RACEWAYS REQUIRED FOR THE DATA WIRING SYSTEM SHALL BE PROVIDED AND INSTALLED.

B. CONDUITS FOR THE STATION OUTLETS SHALL BE INSTALLED FROM THE OUTLET BOX AND TERMINATE ABOVE CEILINGS, WITH INSULATED BUSHINGS.

C. VERIFY THAT THE DATA WIRING RUNS DO NOT EXCEED 90 METERS PRIOR TO INSTALLATION
- 2.18

LABELS:

A. COMPUTER DATA OUTLETS SHALL BE CLEARLY MACHINE LABELED.

B. PRIOR TO INSTALLATION OF CABLING, OBTAIN APPROVED ROOM NUMBERING LEGEND. DO NOT TERMINATE CABLE PRIOR TO RECEIVING WRITTEN INSTRUCTIONS AS TO LABELING SEQUENCE. CABLE TERMINATED PRIOR TO RECEIVING THESE WRITTEN INSTRUCTIONS SHALL BE RETERMINATED AT NO ADDITIONAL COST.

C. THE PATCH PANELS LABELS SHALL BE LOCATED BEHIND A CLEAR COVER TO OFFER PROTECTION. TAPED LABELS ARE NOT ACCEPTABLE.
- 2.19

DATA STATION OUTLETS:

A. EACH RJ45 JACK SHALL HAVE ONE (1) 4 PAIR CABLE TERMINATED AT THE OUTLET AND THE TERMINATION CABINET.

B. FOUR (4) PAIR UTP SHALL BE TERMINATED ON A PATCH PANEL IN THE IDF.

C. PROVIDE QUANTITY OF RJ45 JACKS AS SHOWN ON THE CONTRACT DOCUMENTS.
- 2.20

TESTING:

A. UTP PLENUM RATED CABLE SHALL BE TESTED UTILIZING A MICROTEST OMNISCANNER OR EQUIVALENT TEST INSTRUMENT. TEST RESULTS SHALL BE PROVIDED IN PRINT AND ON CD-ROM FOR REVIEW.

B. CABLE FOUND DEFECTIVE OR NOT IN COMPLIANCE WITH CONTRACT DOCUMENTS SHALL BE REPLACED AT NO EXPENSE WITHIN 7 DAYS OF DETERMINATION.
- 2.21

WARRANTY: WARRANT THAT THE SYSTEM COMPLIES TO CONTRACT DOCUMENTS AND SHALL ISSUE EQUIPMENT CERTIFICATION STATING THAT THE EQUIPMENT AND CONNECTED WIRING WHICH FORM THE SPECIFIED SYSTEM HAVE A CATEGORY 6, 25 YEAR APPLICATION ASSURANCE AND EXTENDED PRODUCT WARRANTY CERTIFIED BY THE MANUFACTURER AND IN COMPLIANCE WITH EIA/TIA 568, 569 AND BICCSI STANDARDS.
- 1.APROVED MANUFACTURERS: PANDUIT.

3. PART 3 - EXECUTION:
- 3.01

GENERAL:

A. FURNISH EQUIPMENT, ACCESSORIES AND MATERIAL REQUIRED FOR INSTALLATION OF THE SYSTEMS IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS.

B. COMPONENTS AND SYSTEM SHALL MEET OR EXCEED MINIMAL STANDARDS ISSUED BY EIA. WORK IN CONJUNCTION WITH THIS INSTALLATION SHALL MEET PROVISIONS OF NATIONAL ELECTRIC CODE AND APPLICABLE LOCAL CODES.
- 3.02

INSTALLATION:

A. PROVIDE CONDUIT AND WIRE AS SHOWN AND AS SPECIFIED IN OTHER SECTIONS.

B. PROVIDE EQUIPMENT AS INDICATED ON CONTRACT DOCUMENTS AND/OR CONTRACT DOCUMENTS. VERIFY LOCATION AND ORIENTATION PRIOR TO ROUGH-IN.

C. ALL LOW VOLTAGE WIRING SHALL BE RUN IN CONDUIT WHEN ROUTED IN CONCEALED SPACES. J-HOOKS SHALL BE UTILIZED IN ACCESSIBLE CEILING SPACE. PROVIDE 20% SPARE CAPACITY IN ALL J-HOOKS. BRIDLE RINGS ARE NOT PERMITTED FOR ANY LOW VOLTAGE CABLING. PROVIDE CONDUIT SLEEVES WHERE LOW VOLTAGE CABLING IS ROUTED THROUGH WALLS.

D. THE INSTALLATION AND CONFIGURATION SHALL MATCH THE EXISTING INSTALLATION TO MAINTAIN CONSISTENCY.
- 3.03

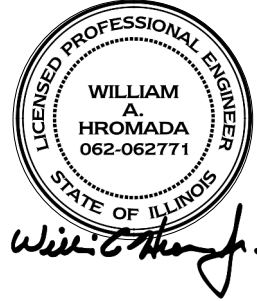
ADJUSTMENT AND CLEANING:

A. CLEAN SYSTEM EQUIPMENT AND CABINETS OF DIRT AND DEBRIS.



9711 Valparaiso Drive
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99 Monroe Avenue NW
Munster, IN 46321
Chicago, IL 60601
Grand Rapids, MI 49503
(219) 924-8400
www.milliesengineeringgroup.com

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WILL COUNTY, ILLINOIS

PURCHASING DEPARTMENT

Bid Form

Community Health Center Call Center Suite Renovations

#2024-72

Name _____ F.E.I.N> # _____

Address _____

City _____ State _____ Zip _____

Contact Person _____ Phone _____

Email Address _____

THIS IS NOT AN ORDER

Will County Agency Name: _____

For additional information contact Kevin Lynn Purchasing Director klynn@willcounty.gov

The bidder proposes to provide the products and/or services in accordance with the specifications attached herein.

Submittal Requirement Checklist: Each of the following items must be submitted for the bid to be considered.

- _____ A. 10% Bid Bond or Cashier's Check
- _____ B. Prime Contractor Certification Form
- _____ C. Reference Form
- _____ D. Signed and Completed Bid Form
- _____ E. Signed and Completed Receipt of Addenda Form
- _____ F. Proof of Insurance

DESCRIPTION	Total Cost
LUMP SUM AMOUNT:	\$
TOTAL CONTRACT AMOUNT WRITTEN IN WORDS. IN CASE OF DISCREPANCY, THE AMOUNT IN WORDS SHALL GOVERN.	

Printed Name: _____

Signature: _____ **Title:** _____

Representative of Company



WILL COUNTY, ILLINOIS

PURCHASING DEPARTMENT

Reference Form

Community Health Center Call Center Suite Renovations

#2024-72

Please list three (3) references, other than the County of Will, that you have done similar work, service or supplied similar products to:

Entity: _____

Address: _____

City, State, Zip Code: _____

Telephone Number: _____

Contact Person: _____

Email Address: _____

Entity: _____

Address: _____

City, State, Zip Code: _____

Telephone Number: _____

Contact Person: _____

Email Address: _____

Entity: _____

Address: _____

City, State, Zip Code: _____

Telephone Number: _____

Contact Person: _____

Email Address: _____



WILL COUNTY, ILLINOIS

PURCHASING DEPARTMENT

Addendum Form

Community Health Center Call Center Suite Renovations

#2024-72

Name _____ F.E.I.N> # _____

Address _____

City _____ State _____ Zip _____

Contact Person _____ Phone _____

Email Address _____

THIS IS NOT AN ORDER

Will County Agency Name: _____

For additional information contact Kevin Lynn Purchasing Director klynn@willcounty.gov

Addendum Receipt: Receipt of the following Addendum to the Bidding Documents is hereby acknowledged:

No. _____, dated _____, signed _____

Addendum Receipt: Receipt of the following Addendum to the Bidding Documents is hereby acknowledged:

No. _____, dated _____, signed _____

Addendum Receipt: Receipt of the following Addendum to the Bidding Documents is hereby acknowledged:

No. _____, dated _____, signed _____

Addendum Receipt: Receipt of the following Addendum to the Bidding Documents is hereby acknowledged:

No. _____, dated _____, signed _____

Addendum Receipt: Receipt of the following Addendum to the Bidding Documents is hereby acknowledged:

No. _____, dated _____, signed _____



WILL COUNTY, ILLINOIS

PURCHASING DEPARTMENT

No Bid Form

Please note: This form is only required if you are not bidding.

Solicitation Name/Number: **Community Health Center Call Center Suite Renovations** **#2024-72**

Reason for not bidding:

- | | |
|--|--|
| ☐ Not enough time to respond | ☐ Unable to compete |
| ☐ Not Applicable to company | ☐ No time to complete work |
| ☐ Unable to obtain required insurance | ☐ Unable to meet specs/requirements |
| ☐ Unable to obtain required bonding | |
| ☐ Other (please detail below) | |

Suggestions:

Company Name: _____

Contact Name: _____

Address: _____

Phone: _____

Email: _____

Date: _____

Please retain our information for future solicitations: Yes ☐ No ☐

LATE BIDS CANNOT BE ACCEPTED!

<u>SEALED BID DOCUMENT</u>	
<u>Vendor Return Address:</u>	
BID #:	2024-72 CHC Call Center Suite
DUE DATE:	7/23/2024
DUE:	10:00 A.M.
DATED MATERIAL-DELIVER IMMEDIATELY	
WILL COUNTY PURCHASING DEPARTMENT 302 N. CHICAGO ST., 2ND FLOOR JOLIET, IL 60432	

PLEASE CUT OUT AND AFFIX THIS BID LABEL
(ABOVE) TO THE OUTERMOST ENVELOPE OF YOUR
SEALED BID TO HELP ENSURE PROPER DELIVERY!

LATE BIDS CANNOT BE ACCEPTED!