

# **ADDENDUM NO. 1**

**October 28, 2022**

**LIBERTY ELEMENTARY SCHOOL RENOVATIONS  
Chesterton, IN 46304**

**TO: ALL BIDDERS OF RECORD**

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated October 17, 2022 by Gibraltar Design. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 and attached Addendum No. 1 from Gibraltar Design dated October 26, 2022 and consisting of 4 pages, Hardware Set 17, and 23 Drawings.

**A. SPECIFICATION SECTION 00 31 00 - INDIANA BID FORM**

1. **Replace with attached**

**B. SPECIFICATION SECTION 01 23 00 - BID ALTERNATES**

1. **Replace with attached**

CONTRACTOR'S BID FOR PUBLIC WORKS FORM NO. 96

ADD No. 1

Format (Revised 2013)  
(Amended for DSC)

**Duneland Liberty Elementary School Renovations**  
**Duneland School Corporation**  
Chesterton, IN

**PART I**

(To be completed for all bids. Please type or print)

Date (month, day, year): \_\_\_\_\_

BIDDER (Firm) \_\_\_\_\_

Address \_\_\_\_\_ P.O. Box \_\_\_\_\_

City/State/Zip \_\_\_\_

Telephone Number: \_\_\_\_\_ Email Address: \_\_\_\_\_

Person to contact regarding this Bid \_\_\_\_\_

Pursuant to notices given, the undersigned offers to furnish labor and/or materials necessary to complete the public works project of:

\_\_\_\_\_  
Insert Category No. (s) and Name(s)

Of public works project, ***Duneland Liberty Elementary School Renovations***, in accordance with Plans and Specifications prepared by ***Gibraltar Design, 9102 N. Meridian St., Ste. #300, Indianapolis, IN 46260***, as follows:

BASE BID

For the sum of \_\_\_\_\_  
(Sum in words)

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)  
(Sum in figures)

The undersigned acknowledges receipt of the following Addenda:

Receipt of Addenda No. (s) \_\_\_\_\_

**PROPOSAL TIME**

Bidder agrees that this Bid shall remain in force for a period of sixty (60) consecutive calendar days from the due date, and Bids may be accepted or rejected during this period. Bids not accepted within said sixty (60) consecutive calendar days shall be deemed rejected.

Attended pre-bid conference                      YES \_\_\_\_\_                      NO \_\_\_\_\_

Has visited the jobsite                              YES \_\_\_\_\_                      NO \_\_\_\_\_

The Bidder has reviewed the Guideline Schedule in Section 01 32 00 and the intent  
Of the schedule can be met.

YES \_\_\_\_\_                      NO \_\_\_\_\_

Bidder has included their Written Drug Testing Plan that covers all employees of the bidder who will perform work on the public work project and meets or exceeds the requirements set in IC 4-13-18-5 or IC 4-13-18-6.

YES \_\_\_\_\_                      NO \_\_\_\_\_

The Skillman Corporation's diversity initiative is to create a program to encourage, assist and measure the active participation of Minority- Owned, Women-Owned, Veteran – Owned and Disabled Individual-Owned Businesses. The Program is to ensure that MWVDBEs are provided full and equal opportunity to participate in all Skillman Corporation's Projects.

Bidder has included:	DBE: YES _____ %	NO _____
	MBE: YES _____ %	NO _____
	WBE: YES _____ %	NO _____
	VBE: YES _____ %	NO _____

The undersigned further agrees to furnish a bond or certified check with this Bid for an amount specified in the Notice to Bidders. If Alternate Bids apply, submit a proposal for each in accordance with the Plans and Specifications.

If additional units of material included in the contract are needed, the cost of units must be the same as that shown in the original contract if accepted by the governmental unit. If the bid is to be awarded on a unit bases, the itemization of the units shall be shown on a separate attachment.

The contractor and his subcontractors, if any, shall not discriminate against or intimidate any employee, or applicant for employment, to be employed in the performance of this contract, with respect to any matter directly or indirectly related to employment because of race, religion, color, sex, national origin, or ancestry. Breach of this covenant may be regarded as a material breach of the contract.

CERTIFICATION OF USE OF UNITED STATES STEEL PRODUCTS  
(if applicable)

I, the undersigned bidder, or agent as a contractor on a public works project, understand my statutory obligation to use steel products made in the United States (I.C. 5-16-8-2). I hereby certify that I and all subcontractors employed by me for this project will use U.S. steel on this project if awarded. I understand that violations hereunder may result in forfeiture of contractual payments.

ALTERNATE BIDS

A blank entry or an entry of "No Bid", "N/A", or similar entry on any Alternate will cause the bid to be rejected as non-responsive only if that Alternate is selected. If no change in the bid amount is required, indicate "No Change".

**\*\*MARK "ADD" OR "DEDUCT" FOR EACH ALTERNATE\*\***

Alternate Bid No. 1 – Schneider Electric Controls installed by Precision Control Systems, Inc.

Change the Base Bid the sum of \_\_\_\_\_  
(sum in words)

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)      ADD  
(sum in figures)      DEDUCT

Alternate Bid No. 2 – Bell & Gossett Pumps

Change the Base Bid the sum of \_\_\_\_\_  
(sum in words)

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)      ADD  
(sum in figures)      DEDUCT

Alternate Bid No. 3 – Chemical Water Treatment by H-O-H Chemicals

Change the Base Bid the sum of \_\_\_\_\_  
(sum in words)

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)      ADD  
(sum in figures)      DEDUCT

Alternate Bid No. 4 – Notifier Fire Alarm System

Change the Base Bid the sum of \_\_\_\_\_  
(sum in words)

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)      ADD  
(sum in figures)      DEDUCT



Alternate Bid No. 5 – Camus Boilers

Change the Base Bid the sum of \_\_\_\_\_  
(sum in words)

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)      ADD  
(sum in figures)      DEDUCT

Alternate Bid No. 6 – Square D Electrical Distribution Equipment

Change the Base Bid the sum of \_\_\_\_\_  
(sum in words)

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)      ADD  
(sum in figures)      DEDUCT

Alternate Bid No. 7 – Remodel of canopy roofing, fascia and roof framing at Entry B-101 – steel columns and foundations to remain

Change the Base Bid the sum of \_\_\_\_\_  
(sum in words)

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)      ADD  
(sum in figures)      DEDUCT

Alternate Bid No. 8 –Wall modifications and new cooler, freezer in Storage B-127

Change the Base Bid the sum of \_\_\_\_\_  
(sum in words)

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)      ADD  
(sum in figures)      DEDUCT

Alternate Bid No. 9 –Work for kitchen areas A-126, A-127, A-128, A-129, A-130 and A-131

Change the Base Bid the sum of \_\_\_\_\_  
(sum in words)

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)      ADD  
(sum in figures)      DEDUCT

## PART II

(For projects of \$150,000 or more – IC 36-1-12-4)

These statements to be submitted under oath by each bidder with and as a part of his bid. (Attach additional pages for each section as needed.)

### SECTION I EXPERIENCE QUESTIONNAIRE

1. What public works projects has your organization completed for the period of one (1) year prior to the date of the current bid?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

2. What public works projects are now in process of construction by your organization?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

3. Have you ever failed to complete any work awarded to you?\_\_\_\_\_If so, where and why?

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4. List references from private firms for which you have performed work.

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## SECTION II PLAN AND EQUIPMENT QUESTIONNAIRE

1. Explain your plan or layout for performing proposed Work. (Examples could include a narrative of when you could begin, complete the project, number of workers, etc. and any other information which you believe would enable the governmental unit to consider your bid.)

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2. Please list the names and addresses of all subcontractors (i.e. persons or firms outside your own firm who have performed part of the work) that you have used on public works projects during the past five (5) years along with a brief description of the work done by each subcontractor.

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3. If you intend to sublet any portion of the work, state the name and addresses of each subcontractor, equipment to be used by the subcontractor, and whether you will required a bond. However, if you are unable to currently provide a listing, please understand a listing must be provided prior to contract approval. Until the completion of the proposed project, you are under a continuing obligation to immediately notify the governmental unit in the event that you subsequently determine that you will use a subcontractor on the proposed project.

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4. What equipment do you have available to use for the proposed Project? Any equipment used by subcontractors may also be required to be listed by the governmental unit.

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5. Have you into contracts or received offers for all materials which substantiate the prices used in preparing your proposal? If not, please explain the rationale used which corroborate the process listed.

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### **SECTION III CONTRACTOR'S FINANCIAL STATEMENT**

Attachment of Bidder's financial statement is mandatory. Any Bid submitted without said financial statement as required by statute shall thereby be rendered invalid. The financial statement provided hereunder to the governing body awarding the Contract must be specific enough in detail so that said governing body can make a proper determination of the Bidder's capability for completing the Project if awarded.

### **SECTION IV CONTRACTOR NON-COLLUSION AFFIDAVIT**

The undersigned Bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this Bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporations has, have, or will receive directly or indirectly, any rebate, fee, gift, commission, or thing of value on account of such contract.

## SECTION V OATH AND AFFIRMATION

I HEREBY AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE FACTS AND INFORMATION CONTAINED IN THE FOREGOING BID FOR PUBLIC WORKS ARE TRUE AND CORRECT

Dated at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 20

\_\_\_\_\_  
(Name of Organization)

By

\_\_\_\_\_  
(Title of Person Signing)

## ACKNOWLEDGEMENT

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

Before me, a Notary Public, personally appeared the above-named

\_\_\_\_\_  
Swore that the statements contained in the foregoing document are true and correct.

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_,  
\_\_\_\_\_  
(Title)

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

County of Residence: \_\_\_\_\_

END OF SECTION 00 31 00

## **SECTION 01 23 00 - ALTERNATES**

**ADD-01**

### **PART 1 - GENERAL**

#### **1.01 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including amended General Conditions and other Division 1 Specification Sections, apply to work of this Section.

#### **1.02 PURPOSE**

- A. The Bids for the Alternates described herein are required in order for the Owner to obtain information necessary for the proper consideration of the Project in its entirety.

#### **1.03 ALTERNATES**

- A. Definitions: Alternates are defined as alternate products, materials, equipment, installations, or systems for the Work, which may, at Owner's option and under terms established by Instructions to Bidders, be selected and recorded in the Owner-Contractor Agreement to either supplement or displace corresponding basic requirements of Contract Documents. Alternates may or may not substantially change scope and general character of the Work; and must not be confused with "allowances", "unit prices", "change orders", "substitutions", and other similar provisions.

#### **1.04 SCHEDULE OF ALTERNATES**

- A. ALTERNATE NO. 1: State the cost to provide Schneider Electric Controls as installed by Precision Controls Systems, Inc., if not already included in your Base Bid.
- B. ALTERNATE NO. 2: State the cost to provide hydronic pumps manufactured by Bell & Gossett if not already included in your Base Bid.
- C. ALTERNATE NO. 3: State the cost to provide Chemical Water Treatment by H-O-H Chemicals if not already included in your Base Bid.
- D. ALTERNATE NO. 4: State the cost to provide a Fire Alarm System manufactured by Notifier if not already included in your Base Bid.
- E. ALTERNATE NO. 5: State the cost to provide Boilers manufactured by Camus if not already included in your Base Bid.
- F. ALTERNATE NO. 6: State the cost to provide Electrical Distribution Equipment manufactured by Square D if not already included in your Base Bid.

- G. ALTERNATE NO. 7: State the cost to provide new canopy structure as indicated on the Drawings for canopy at Entry B-101, including removal of the existing canopy roofing, fascia, and roof framing. Existing steel columns and foundations to remain.
- H. ALTERNATE NO. 8: State the cost to provide wall modifications at Storage A-127 and a new cooler and freezer as indicated on the Drawings.
- I. ALTERNATE NO. 9: State the cost to provide the work shown for A-126, A-127, A-128, A-129, A-130 and A-131 as identified in the project documents. Removal of kitchen equipment as shown is base bid.

PART 2 - PRODUCTS, PART 3 - EXECUTION (Not Used)

END OF SECTION 01 23 00

## ADDENDUM ONE

**Addendum One (AD.01)** to the drawings and specifications prepared by Gibraltar Design for **Liberty Elementary School Renovations** for Duneland School Corporation, Chesterton, Indiana.

All Contractors bidding on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by this Addendum and required by the intent of the original contract documents. All Contractors shall acknowledge on their bid form that they have received this Addendum and include the appropriate content of same within their bid proposal.

## SPECIFICATIONS

### 1. Specification Section 08 71 00 Door Hardware

- A. Add the following Doors to hardware set No. 5:
  - 1. A-103A, A-114A, A-116A, B-130A and B-147A.
- B. Add the following Note to Hardware Set No. 5:
  - 1. NOTE: AT EXISTING FRAMES: VERIFY/COORDINATE PREPS ON FRAMES. PROVIDE CORRECT STRIKES, REINFORCEMENTS, FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE AND COVER EXPOSED HOLES.
- C. Revise Door B-145B to B-145A in hardware set No. 9.
- D. Add Door A-127A to hardware set No. 9.
- E. Remove Door B-145A from hardware set No. 14.
- F. See attached for revised hardware set No. 17, included in this Addendum.

## DRAWINGS

### 2. Sheet S-402

- A. Refer to revised full size drawings, included in this Addendum, for the following revisions:
  - 1. Add foundation section - void slab detail 10/A-402 and new-to-existing slab detail 11/S-402.

### 3. Sheet A-101

- A. Refer to revised full size drawings, included in this Addendum, for the following revisions:
  - 1. Updated kitchen layout and alternate designation bubble.
  - 2. Revised Plan Note 1 for void slab structural coordination.
  - 3. Add dimensions to void slab outside door A-137A.



**4. Sheet A-102**

A. Refer to revised full size drawings, included in this Addendum, for the following revisions:

1. Revised Plan Note 1 for void slab structural coordination.
2. Add dimensions to void slab outside doors B-122A, B-132A, B-137A, B-143A, B-148A, B-153A.

**5. Sheet A-103**

A. Refer to revised full size drawings, included in this Addendum, for the following revisions:

1. Revised Plan Note 1 for void slab structural coordination.

**6. Sheet A-601**

A. Refer to revised full size drawings, included in this Addendum, for the following revisions:

1. Add door A-127A.

**7. Sheet A-610**

A. Refer to revised full size drawings, included in this Addendum, for the following revisions:

1. Update graphics to align with notes at Details 3/A-610, 5/A-610, and 6/A-610.

**8. Sheet M-201**

A. Refer to revised full size drawings, included in this Addendum, for the following revisions:

1. Added (2) general exhaust fans for mechanical room.

**9. Sheet M-301**

A. Refer to revised full size drawings, included in this Addendum, for the following revisions:

1. Revised AH-3 section.

**10. Sheet M-401**

A. Refer to revised full size drawings, included in this Addendum, for the following revisions:

1. Revised AH-3 size, piping and ductwork connection.

**11. Sheet M-402**

A. Refer to revised full size drawings, included in this Addendum, for the following revisions:

1. Revised new and demolition piping distribution.
2. Added refrigerant exhaust system to mechanical room.



**12. Sheet M-501**

- A. Refer to revised full size drawings, included in this Addendum, for the following revisions:
  - 1. Revised AH-3 equipment scheduled.
  - 2. Added (2) General exhaust fans.
  - 3. Revised grille, register and diffuser schedule.

**13. Sheet P-001**

- A. Refer to revised full size drawings, included in this Addendum, for updated plumbing fixture schedule.

**14. Sheet PD102 and P-112**

- A. Refer to two revised full size drawings, included in this Addendum, for canopy alternate.

**15. Sheet P-202**

- A. Add new sheet, included in this addendum, to Construction Documents.

**16. Sheet ED101**

- A. Refer to revised full size drawings, included in this Addendum, for the following revisions:
  - 1. Revised demolition devices and requirements.

**17. Sheet EL101 and EL102**

- A. Refer to revised full size drawings, included in this Addendum, for the following revisions:
  - 1. Revised new work devices and requirements.

**18. Sheet EP101 and EP102**

- A. Refer to revised full size drawings, included in this Addendum, for the following revisions:
  - 1. Revised new work devices and requirements.

**19. Sheet E-201**

- A. Refer to revised full size drawings, included in this Addendum, for the following revisions:
  - 1. Revised new work devices and requirements.

**20. Sheet E-401**

- A. Refer to revised full size drawings, included in this Addendum, for the following revisions:
  - 1. Revised new work devices and requirements.

**21. Sheet E-602**

- A. Refer to revised full size drawings, included in this Addendum, for the following revisions:
  - 1. Revised new work devices and requirements.



Pages 1 through 4, inclusive, Hardware Set 17, and Twenty-Three (23) Full-Size Drawings, constitute the total makeup of **Addendum One**.

**GIBRALTAR**

DESIGN

Y:\21-137 Duneland SC - Liberty ES Additions and Renovations\Specs\ADDENDUM ONE\AD01.docx



## HARDWARE GROUP NO. 17

For use on Door #(s):

A-137A

B-122A

B-132A

B-148A

B-153A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	ELEC PANIC HARDWARE	CD-RX-99-NL-OP-110MD	626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-NL-OP-110MD 24 VDC	626	VON
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	MORTISE CYLINDER	26-094 XQ11-948-36-083	626	SCH
1-(2)	EA	PERMANENT CORE	MATCH EXISTING KEYING SYSTEM	626	SCH
1	EA	90 DEG OFFSET PULL	8190HD 12" O	630	IVE
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	MOUNTING PLATE	4040XP-18PA AS REQ'D	689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 AS REQ'D	689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 AS REQ'D	689	LCN
1	EA	RAIN DRIP	142AA	AA	ZER
1			WEATHERSTRIP BY DOOR/FRAME SUPPLIER		
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	65A	A	ZER
1	EA	CREDENTIAL READER	MTB15 - BY ACCESS CONTROL PROVIDER (COORDINATE W/ HEAD END AND CREDENTIAL TYPE)	BLK	SCE
1	EA	DOOR CONTACT	7764	628	SCE
1	EA	POWER SUPPLY	PS902 900-4R [COORDINATE WITH ACCESS CONTROL]	LGR	SCE
1	EA	DIAGRAM	ELEVATION		DLR
1	EA	DIAGRAM	POINT TO POINT		DLR

**OPERATION: DOORS NORMALLY CLOSED AND LOCKED. DOORS CAN BE LEFT UNLOCKED AS PROGRAMMED BY ACCESS CONTROL. WHEN LOCKED: VALID CREDENTIAL MOMENTARILY RETRACTS ELECTRIC LATCH ALLOWING ENTRY. DOOR CONTACTS TO MONITOR DOOR POSITION. RX SWITCH IN EXIT DEVICE PUSH PADS SHUNT DOOR CONTACT FOR VALID EGRESS. FREE EGRESS AT ALL TIMES.**

**NOTE: DOORS REQUIRE SPECIAL 3/8" INCH UNDERCUT FOR ADA TYPE THRESHOLD.**

LIBERTY  
ELEMENTARY  
SCHOOL -  
RENOVATIONS

GIBRALTAR DESIGN

PROJECT 21-137	
DATE 10/17/22	
COORDINATED BY SAC/NHF	
DRAWN BY SAC/NHF	
CHECKED BY SAC	

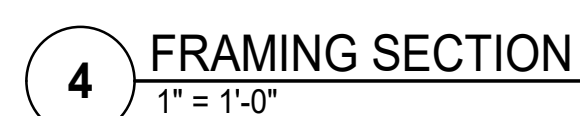
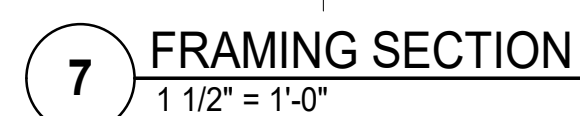
REVISIONS

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© GIBALTAR DESIGN

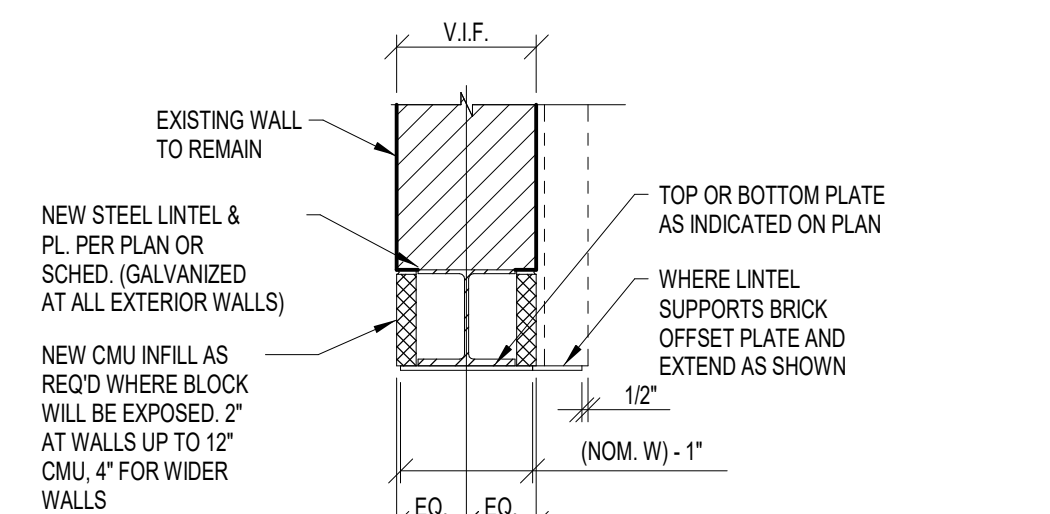
SHEET

S-402

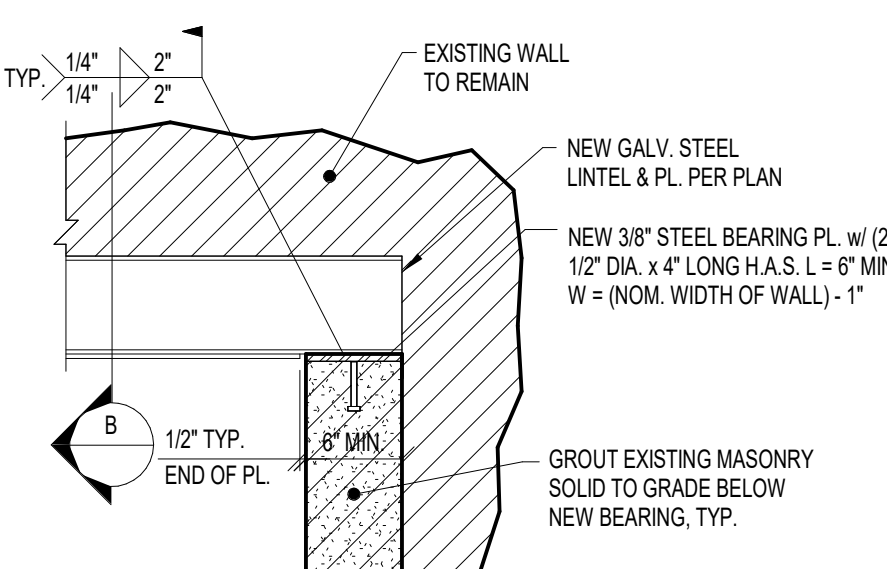


1. 3" x 16 GA. PRIME PAINTED DEEP RIB STEEL ROOF DECK.
2. ALL WELDS TO SUPPORTING STRUCTURE SHALL BE 5/8" DIA. PUDDLE WELDS.
3. MECHANICAL FASTENERS MAY BE USED IN PLACE OF WELDS.
4. USE THE FOLLOWING HILTI POWER ACTUATED FASTENERS:  
USE XEDIN22 HIT/2H2SH FOR STEEL "T" 1/8" THROUGH 1/4"  
USE XEDIN13 HIT/2H2SH FOR STEEL "T" 3/16" THROUGH 3/8"
5. USE THE FOLLOWING ITW-BUILDUP POWER ACTUATED FASTENERS:  
USE BX12 FOR STEEL "T" 1/8" THROUGH 3/16"  
USE BX14 FOR STEEL "T" OVER 3/16" THROUGH 3/8"  
USE #10 TEK SCREWS FOR FASTENING TO COLD-FORMED STEEL.
6. SUBMIT PROPOSED FASTENERS & TECHNICAL DATA FOR REVIEW.
7. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

3 3" DEEP RIB STEEL ROOF DECK  
NOT TO SCALE

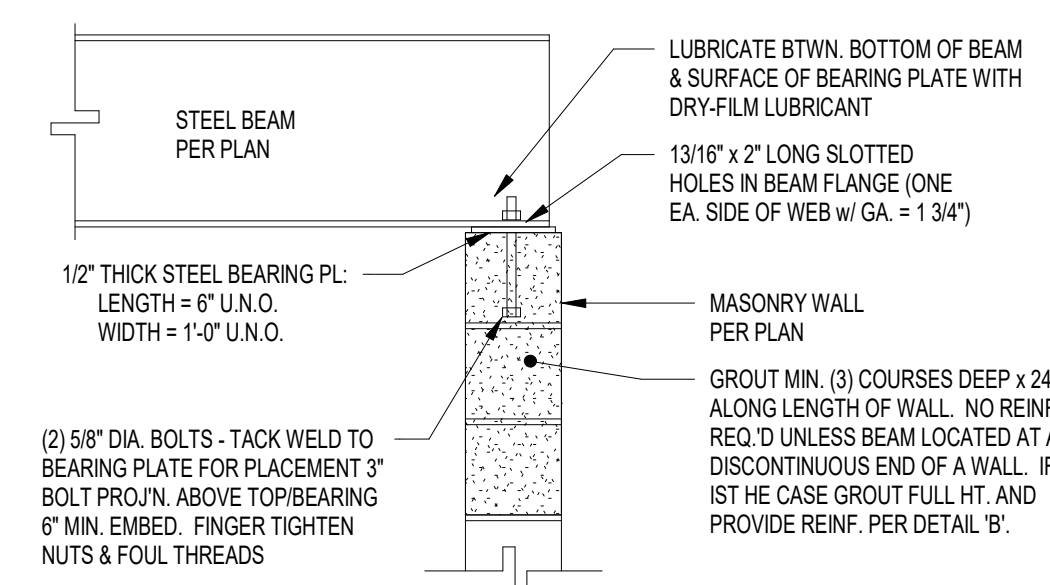


'B' SECTION VIEW

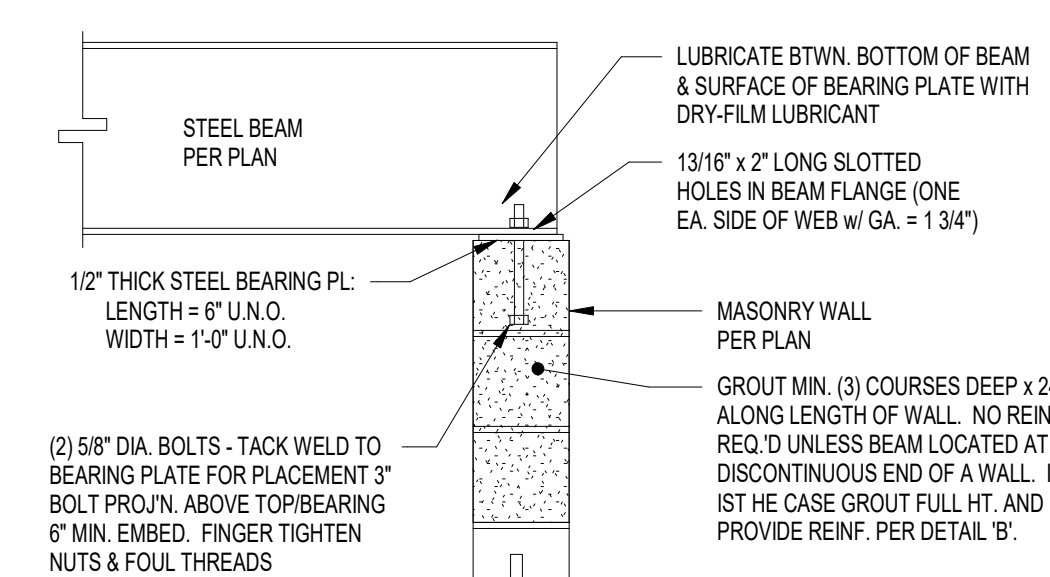


'A' ELEVATION VIEW

**2 STEEL LINTEL BEARING DETAILS - EXISTING CMU WALL**  
3/4" = 1'-0"

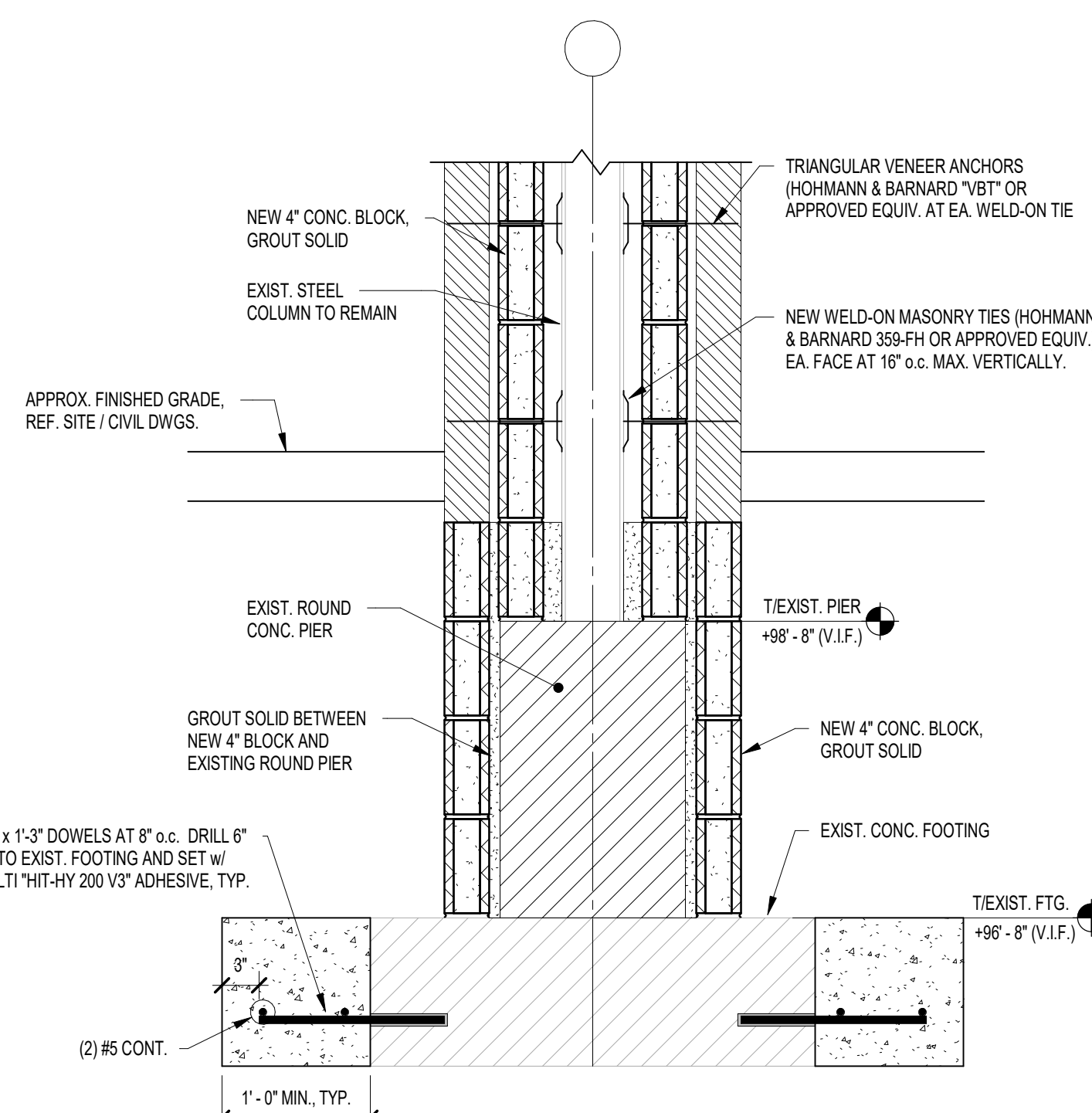
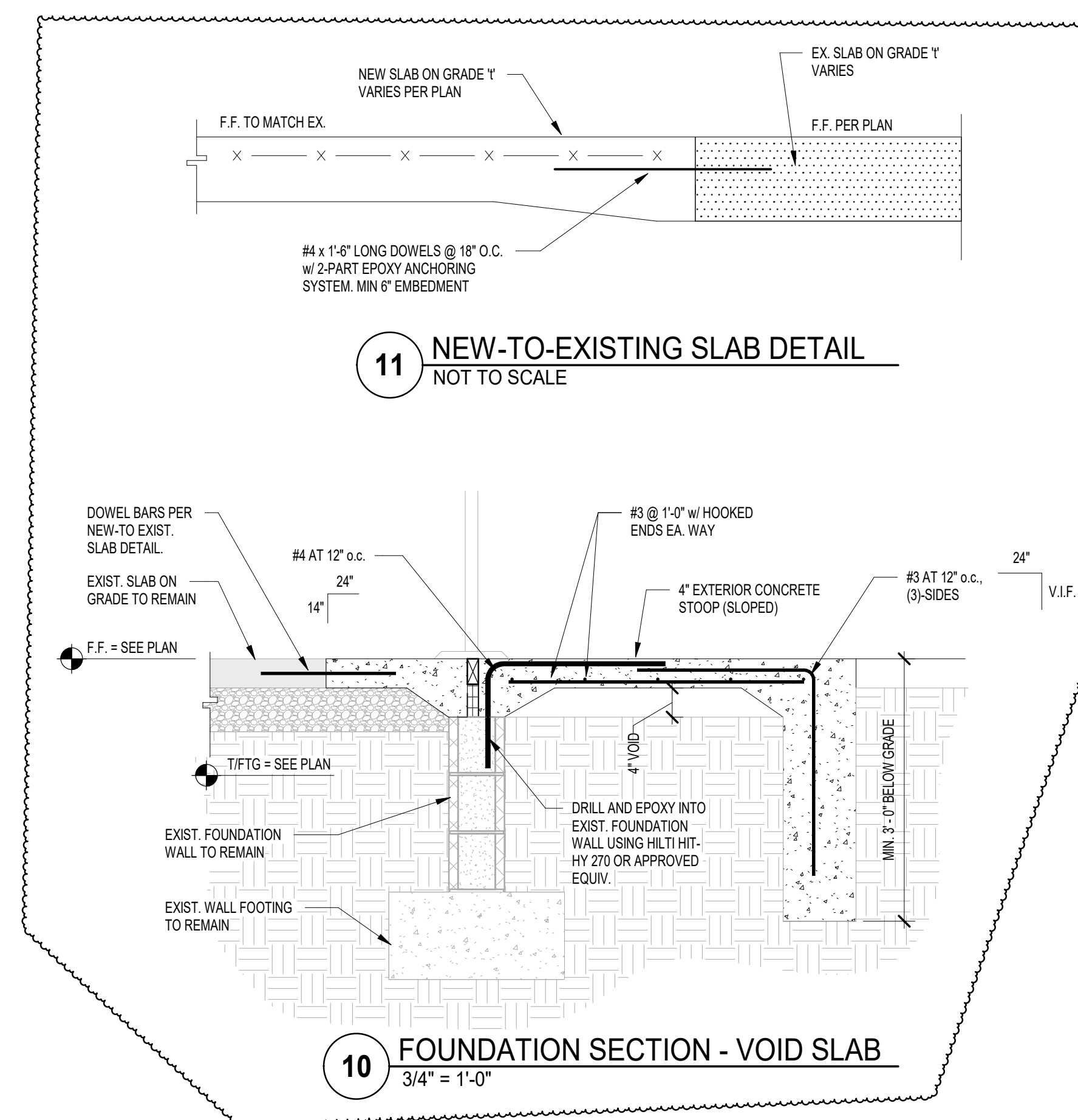


DETAIL A: BEAM PERPENDICULAR TO WALL

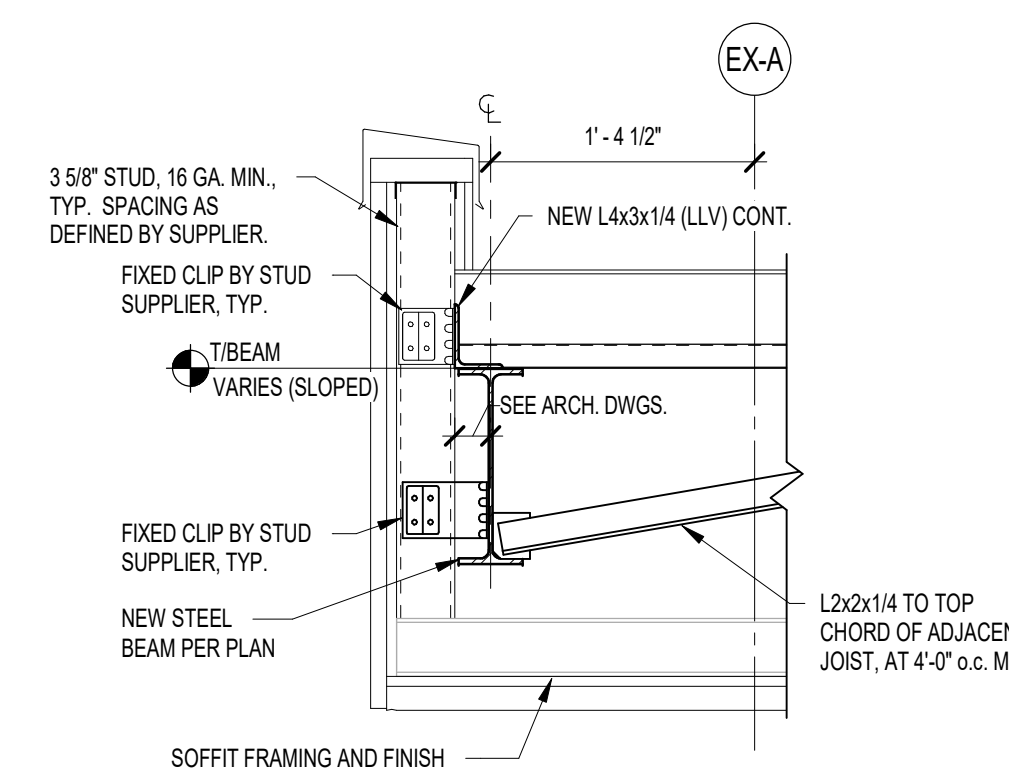


DETAIL A: BEAM PERPENDICULAR TO WALL

1 STEEL LINTEL BEARING DETAILS - NEW CMU WALL  
3/4" = 1'-0"

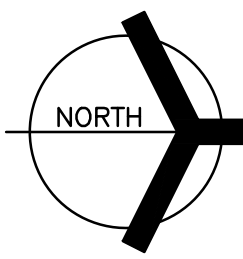


FOUNDATION SECTION  
1" = 1'-0"



**8** FRAMING SECTION  
1" = 1'-0"





SCALE:  $1/8" = 1'-0"$

SHEET

A-101

GENERAL PLAN NOTES:

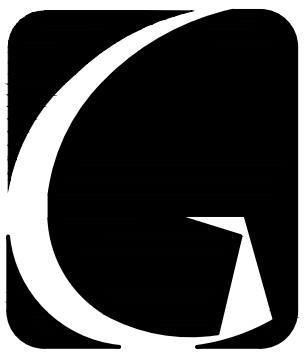
- A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO C SERIES SHEETS.
- B. PLAN DIMENSIONS TO MASONRY WALLS ARE TO FACE OF ROUGH MASONRY. PLAN DIMENSIONS TO STUD WALLS ARE TO FACE OF FINISHED GYPSUM BOARD OR PLASTER. PLAN DIMENSIONS TO STUD WALLS WITH CERAMIC TILE FINISH ARE TO THE FACE OF TILE BACKER BOARD.
- C. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
- D. MASONRY WALLS BEARING ON A THICKENED SLAB AT SLAB DEPRESSIONS REQUIRE CUT MASONRY UNITS SO THAT COURSING BEGINS AT THE FLOOR LINE.
- E. THE BASE FIRST FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.
- F. HINGE SIDE OF DOOR JAMB AT CMU WALLS SHALL BE LOCATED 8" MINIMUM FROM ADJACENT WALL AND HINGE SIDE OF DOOR JAMB AT GYPSUM BOARD WALLS SHALL BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
- G. PROVIDE WOOD BLOCKING (OR METAL STRAPPING WHERE APPLICABLE) AS REQUIRED WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.
- H. REFER TO LIFE SAFETY PLANS REGARDING FIRE RATED WALL LOCATIONS AND OTHER CODE INFORMATION.
- I. INTERIOR CMU WALLS ARE TO BE RUNNING BOND UNLESS NOTED OTHERWISE.
- J. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSED, EXCEPT AT MASONRY BULKHEADS AND EXTERIOR WINDOW JAMBS.
- K. WHERE NEW CMU WALLS INTERSECT EXISTING CMU WALLS AT A CORNER OR ARE ALIGNED WITH EXISTING CMU WALLS, TOOTH NEW CMU INTO EXISTING CMU UNLESS NOTED OTHERWISE.
- L. REFER TO DEMOLITION SHEETS FOR ADDITIONAL PATCHING AND REPAIR WORK.
- M. REFER TO FINISH PLANS FOR INTERIOR ELEVATIONS, LOCATION AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.
- N. REFER TO EQUIPMENT PLANS FOR CASEWORK, DISPLAY BOARDS, LOCKERS, AND OTHER ADDITIONAL TYPICAL EQUIPMENT NOTES AND INFORMATION.
- O. REFER TO EQUIPMENT PLANS FOR REFERENCE TO ENLARGED TOILET ROOM PLANS AND TOILET ACCESSORIES.

PLAN LEGEND:

- INDICATES STOREFRONT, CURTAIN WALL, OR WINDOW SYSTEM. REFER TO A-600 SERIES DRAWINGS FOR ELEVATIONS AND DETAILS.
- INDICATES WALL TYPES REFER TO G-201 FOR WALL THICKNESS, HEIGHT, AND COMPOSITION.

PLAN NOTES:

- (ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)
- 1 CONCRETE STUOP/VOID SLAB, REFER TO STRUCTURAL DETAIL 10/S-402 FOR REINFORCING REQUIREMENTS.
- 2 DASHED LINE INDICATES TYPICAL BULKHEAD, REFER TO SECTIONS AND REFLECTED CEILING PLANS. (ALL BULKHEADS MAY NOT BE INDICATED ON THIS PLAN)
- 3 CASEWORK AND/OR MILLWORK (TYPICAL), REFER TO EQUIPMENT PLANS.
- 4 DISPLAY BOARD/PROJECTOR/TV MONITOR (TYP), REFER TO EQUIPMENT PLANS.
- 5 PUSH PAD FOR ADA OPERATOR, REFER TO ELECTRICAL DRAWINGS.
- 6 CARD/FOB READER, REFER TO ELECTRICAL/TECHNOLOGY DRAWINGS.
- 7 AI DEVICE, REFER TO ELECTRICAL/TECHNOLOGY DRAWINGS.
- 8 FIRE ALARM CONTROL PANEL, REFER TO ELECTRICAL DRAWINGS.
- 9 FIRE ALARM ANNUNCIATOR PANEL, REFER TO ELECTRICAL DRAWINGS.
- 10 MOP SINK, REFER TO PLUMBING DRAWINGS.
- 11 WALL SINK, REFER TO PLUMBING DRAWINGS.
- 12 ELECTRIC WATER COOLER WITH BOTTLE FILLER AND BUBBLER, REFER TO PLUMBING DRAWINGS.
- 13 ACCESSIBLE ELECTRIC WATER COOLER WITH BOTTLE FILLER AND BUBBLER, REFER TO PLUMBING DRAWINGS.
- 14 CABINET HEATER, REFER TO MECHANICAL DRAWINGS.
- 15 UNIT VENTILATOR, REFER TO MECHANICAL DRAWINGS.
- 16 ROOF CONDUCTOR, REFER TO PLUMBING DRAWINGS.
- 17 SEMI-RECESSED FIRE EXTINGUISHER CABINET.
- 18 KNOX BOX.
- 19 CEILING CURTAIN TRACK.
- 20 FILL OPENING WITH STUD WALL, FINISH FLUSH WITH ADJACENT STUD WALL AND PREP FOR NEW FINISH.
- 21 STAFF MAILBOX, REFER TO EQUIPMENT PLANS.
- 22 LINE OF CANOPY ABOVE, REFER TO SECTIONS.
- 23 DOWNSPOUT, REFER TO ROOF PLAN.
- 24 DASHED LINE INDICATES NEW PARTIAL DROP CEILING, REFER TO REFLECTED CEILING PLANS.
- 25 INSTALL NEW PLYWOOD, TO MATCH AND EXTEND EXISTING, TO 8'-6". PREP FOR NEW FINISH.
- 26 INSTALL 1/2" TILE BACKER BOARD OVER EXISTING TILE TO REMAIN. NEW WALL CONSTRUCTION TO BE FLUSH WITH FACE OF NEW TILE BACKER BOARD, REFER TO FINISH PLANS AND FINISH LEGEND FOR NEW WALL FINISHES.
- 27 PROVIDE "ARDEX" FLOOR PATCHING AND PREP FLOOR FOR NEW FINISH.
- 28 FILL IN RECESSED FLOOR WITH ARDEX. PREP TO RECEIVE NEW FLOOR FINISH.
- 29 BRONZE PLAQUE, REFER TO SPECIFICATIONS.
- 30 RE-INSTALL PREVIOUSLY REMOVED WATER CLOSETS WITH FOUR (4) NEW CARRIER RODS AT EACH.
- 31 RE-INSTALL PREVIOUSLY REMOVED ACCESS PANELS.
- 32 PAINT ALL SIDES OF EXISTING FRAME TO MATCH NEW DOOR FRAMES.
- 33 NEW OUTDOOR ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR EXACT LOCATION AND CONCRETE PAD DETAILS.
- 34 RELOCATE EXISTING MARKER BOARD.
- 35 INFILL CAVITY LEFT BY REMOVAL OF WALL MOUNTED MECHANICAL EQUIPMENT WITH WALL TYPE AX.

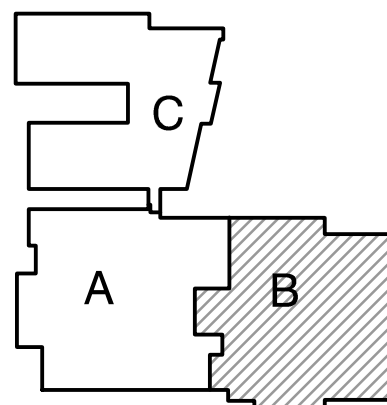


**GIBALTAR**  
DESIGN  
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

**LIBERTY  
ELEMENTARY  
SCHOOL -  
RENOVATIONS**

DUNELAND SCHOOL CORPORATION  
CHESTERTON, INDIANA



KEY PLAN

GIBALTAR DESIGN

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PROJECT

21-137

DATE

10/17/22

COORDINATED BY

MMM

DRAWN BY

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CHECKED BY

DJW

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REVISIONS

MARK	DATE	ISSUED FOR
AD-1	10/26/22	ADDENDUM NO. 1

DRAWING

**UNIT "B" ARCHITECTURAL  
FIRST FLOOR PLAN**

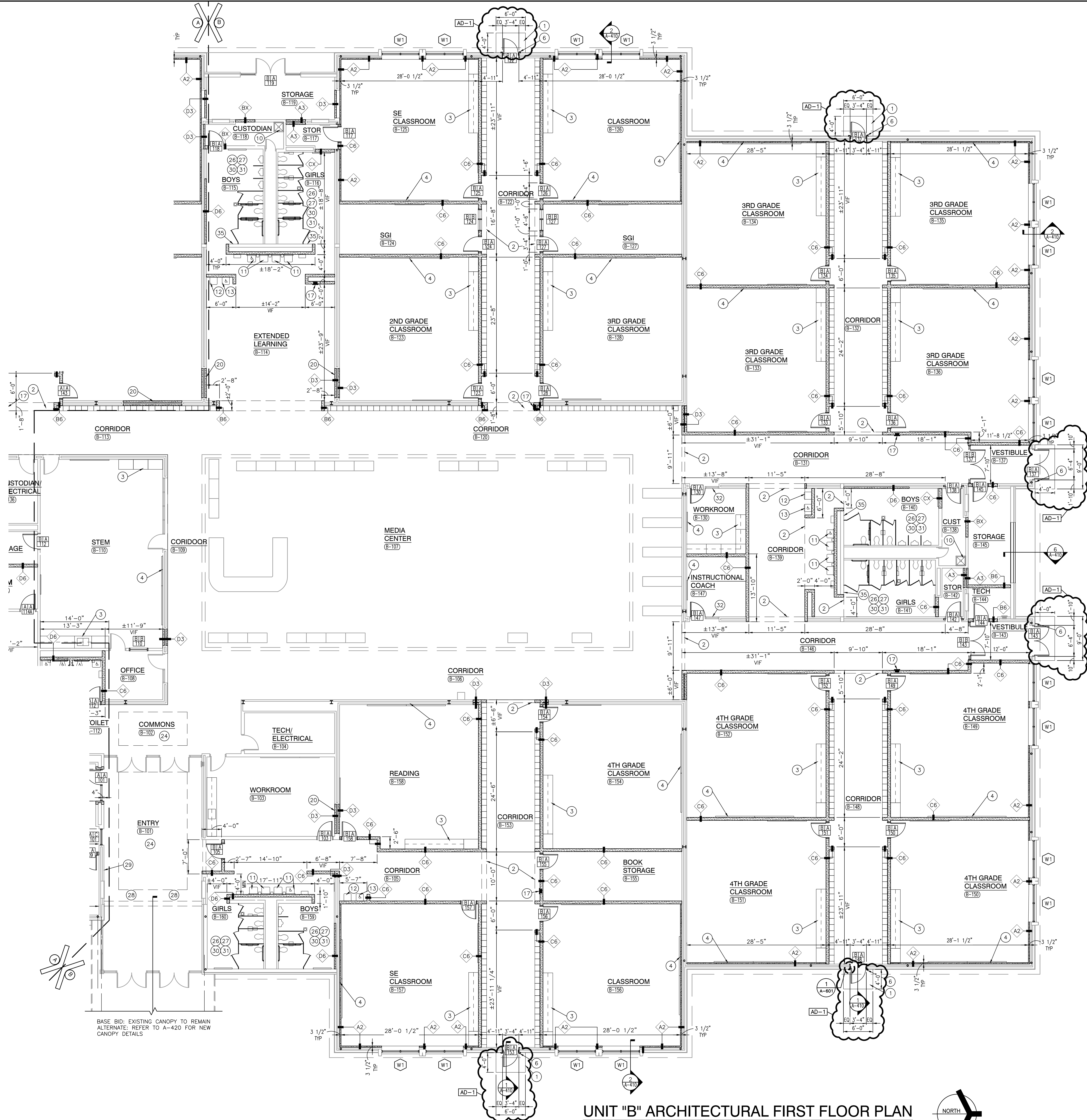
PROJECT

LIBERTY ES - RENOVATIONS

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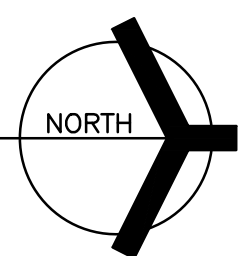
SHEET

**A-102**

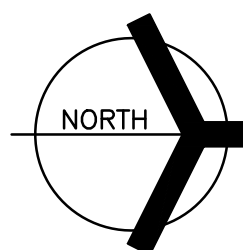


**UNIT "B" ARCHITECTURAL FIRST FLOOR PLAN**

SCALE: 1/8" = 1'-0"







SHEET  
A-103



Architectural drawing showing door and frame schedule, elevations, and details for Liberty Elementary School Renovations. The drawing includes a main door schedule table, a key plan, and various technical details.

**DOOR AND FRAME SCHEDULE**

NO	DESCRIPTION	TYPE	DOOR SIZE (WxH) (INCHES)	MATERIAL	LOU	GLASS	TRA	MAT'L	WIDTH	JAMB	HEAD	SILL	ELEV	LABEL	HARDWARE	EXIT DEVICE	CLOSER	NOTES
B-136A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-137A	DOUBLE	5	PR 36 x 84	AL	--	B	B	AL	4 1/2"	SEE ELEV	SEE ELEV	SEE ELEV	SF4	--	YES	YES	1,2,4,5,6	
B-137B	DOUBLE	5	PR 36 x 84	AL	--	A	A	AL	4 1/2"	SEE ELEV	SEE ELEV	SEE ELEV	SF5	--	DUMMY	YES	--	
B-138A	SINGLE	1	36 x 84	WD	--	--	--	HM	5 3/4"	J2	H2	--	HM1	--	--	--	--	
B-142A	SINGLE	1	36 x 84	WD	--	--	--	HM	5 3/4"	J2	H2	--	HM1	--	--	--	--	
B-143A	DOUBLE	5	PR 36 x 84	AL	--	B	B	AL	4 1/2"	SEE ELEV	SEE ELEV	SEE ELEV	SF4	--	YES	YES	1,2,4,5,6	
B-143B	DOUBLE	5	PR 36 x 84	AL	--	A	A	AL	4 1/2"	SEE ELEV	SEE ELEV	SEE ELEV	SF5	--	DUMMY	YES	--	
B-144A	SINGLE	1	36 x 84	WD	--	--	--	HM	8 3/8"	J2	H2	--	HM1	--	--	YES	--	
B-145A	SINGLE	1	36 x 84	WD	--	--	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-147A	SINGLE	2	36 x 84	WD	--	A	--	EXIST	--	--	--	--	--	--	--	--	--	
B-148A	SINGLE	5	36 x 84	AL	--	B	B	AL	4 1/2"	J2	H2	--	SF1	--	YES	YES	1,2,4,6	
B-149A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-150A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-151A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-152A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-153A	SINGLE	5	36 x 84	AL	--	B	B	AL	4 1/2"	J2	H2	--	SF1	--	YES	YES	1,2,4,6	
B-154A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-155A	SINGLE	1	36 x 84	WD	--	--	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-156A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-157A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-158A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	

**GENERAL DOOR NOTES**

- JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. REFER TO A800 SERIES DRAWINGS FOR WALL FINISHES.
- SEAL ALL JAMBS AND HEADS WHERE FRAMES MEET EXPOSED MASONRY AND/OR GYPSUM BOARD.
- PROVIDE A SCRIBE MOLD AT ALL EXTERIOR DOOR FRAMES AND WHERE NOTED ON DRAWINGS. SCRIBE MOLD TO BE 3/4" X 3/4" X 1/8" ALUMINUM AT BOTH SIDES OF ALUMINUM FRAMES. SET SCRIBE MOLDS IN SEALANT.
- PROVIDE GLAZING AND GLASS STOPS AS REQUIRED.
- FIELD VERIFY ALL DIMENSIONS AND CONDITIONS, BOTH NEW AND EXISTING.
- SHIM SPACE IS NOT SHOWN ON DOOR FRAME ELEVATIONS FOR ALUMINUM STOREFRONT. TAKE THESE DIMENSIONS INTO ACCOUNT AND ADJUST DIMENSIONS ACCORDINGLY.
- FOR DOOR POSITION WITHIN WALL REFER TO FRAME MOUNTING DETAIL 1-A601.
- FOR ELECTRICAL ROUGH-IN AT DOORS REFER TO DETAIL 2-A601.
- FOR HOLLOW METAL FRAME ELEVATIONS (HM) REFER TO 3-A601. FOR HOLLOW METAL (HM) FRAME PROFILES REFER TO 4-A601.
- FOR ALUMINUM STOREFRONT ELEVATIONS (SF) REFER TO 1-A610 FOR STOREFRONT (SF) FRAME PROFILES REFER TO 2-A610.
- GLASS NOTED IN Sidelight COLUMN FOR STOREFRONT OR CURTAIN WALL FRAMES WITH NO DOOR APPLIES TO ALL OPENINGS IN FRAME UNLESS NOTED OTHERWISE.
- FIELD VERIFY FRAME DEPTHS AT EXISTING WALLS.

**DOOR SCHEDULE NOTES (REMARKS):**

- DOOR TO HAVE ELECTRIC LATCH BOLT. PREPARE FRAME FOR ELECTRIFIED HINGE.
- DOOR TO BE CONTROLLED BY CARD READER. REFER TO ELECTRICAL DRAWINGS FOR ROUGH IN.
- PROVIDE DOOR RELEASE ON AI PHONE LOCATED AT RECEPTION DESK.
- PROVIDE ALUMINUM THRESHOLD SET IN FULL BED OF MASTIC. REFER TO 3/A-610.
- KEYED REMOVABLE MULLION.
- PREPARE DOOR AND FRAME FOR DOOR POSITION SWITCH.
- INSTALL OPAQUE FILM ON ALL GLAZING IN EXISTING DOOR AND FRAME.

**DOOR AND FRAME SCHEDULE**

NO	DESCRIPTION	TYPE	DOOR SIZE (WxH) (INCHES)	MATERIAL	LOU	GLASS	TRA	MAT'L	WIDTH	JAMB	HEAD	SILL	ELEV	LABEL	HARDWARE	EXIT DEVICE	CLOSER	NOTES
A-101A	SINGLE	3	36 x 84	WD	--	E	E	AL	4 1/2"	SEE ELEV	SEE ELEV	SEE ELEV	SF2	--	--	--	YES	1,2,6
A-101B	SINGLE	3	36 x 84	WD	--	A	A	HM	8 3/8"	SEE ELEV	SEE ELEV	SEE ELEV	HM2	--	--	--	YES	1,2
A-101C	BORROWED LIGHT	--	--	--	--	--	--	E	AL	4 1/2"	SEE ELEV	SEE ELEV	SEE ELEV	SF3	--	--	--	--
A-102A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
A-102B	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	YES	--	
A-103A	SINGLE	2	36 x 84	WD	--	A	--	EXIST	--	--	--	--	--	--	--	--	--	
A-104A	SINGLE	1	36 x 84	WD	--	--	--	HM	8 3/8"	J2	H2	--	HM1	--	--	YES	--	
A-105A	SINGLE	1	36 x 84	WD	--	--	--	HM	5 3/4"	J2	H2	--	HM1	--	--	--	--	
A-106A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	YES	--	
A-108A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
A-108B	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
A-109A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
A-109B	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
A-110A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
A-112A	SINGLE	1	36 x 84	WD	--	--	--	HM	8 3/8"	J2	H2	--	HM1	--	--	YES	--	
A-113A	SINGLE	1	36 x 84	WD	--	--	--	HM	8 3/8"	J2	H2	--	HM1	--	--	YES	--	
A-114A	SINGLE	2	36 x 84	WD	--	A	--	EXIST	--	--	--	--	--	--	--	--	--	
A-114AA	SINGLE	2	36 x 84	WD	--	A	--	HM	7 1/8"	J2	H2	--	HM1	--	--	--	--	
A-115A	SINGLE	2	36 x 84	WD	--	A	--	HM	5 3/4"	J2	H2	--	HM1	--	--	--	--	
A-116A	SINGLE	2	36 x 84	WD	--	A	--	EXIST	--	--	--	--	--	--	--	--	--	
A-127A	SINGLE	1	36 x 84	WD	--	--	--	HM	7 1/8"	J2	H2	--	HM1	--	--	--	--	
A-137A	SINGLE	5	36 x 84	AL	--	B	B	AL	4 1/2"	J2	H2	--	SF1	--	YES	YES	1,2,4,6	
A-138A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
A-139A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
A-140A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
A-141A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
A-142A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
A-142B	BORROWED LIGHT	--	--	--	--	A	--	HM	8 3/8"	SEE ELEV	SEE ELEV	SEE ELEV	HM3	--	--	--	--	
A-143A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
A-152A	SINGLE	1	36 x 84	WD	--	--	--	HM	9 1/8"	J2	H2	--	HM1	--	--	YES	--	
B-103A	SINGLE	2	36 x 84	WD	--	A	--	HM	9 1/8"	J2	H2	--	HM1	--	--	YES	--	
B-105A	SINGLE	2	36 x 84	WD	--	E	--	HM	8 3/8"	J2	H2	--	HM1	--	YES	YES	1,2,6	
B-110B	BORROWED LIGHT	--	--	--	--	A	--	HM	8 3/8"	SEE ELEV	SEE ELEV	SEE ELEV	HM5	--	--	--	--	
B-112A	SINGLE	1	36 x 84	WD	--	--	--	HM	7 1/8"	J2	H2	--	HM1	--	--	--	--	
B-117A	SINGLE	1	36 x 84	WD	--	--	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-118A	SINGLE	1	36 x 84	WD	--	--	--	HM	9 1/8"	J2	H2	--	HM1	--	--	--	--	
B-119A	DOUBLE	--	--	--	--	D	D	EXIST	--	--	--	--	--	--	--	--	7	
B-122A	SINGLE	5	36 x 84	AL	--	B	B	AL	4 1/2"	J2	H2	--	SF1	--	YES	YES	1,2,4,6	
B-123A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-124A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-124B	BORROWED LIGHT	--	--	--	--	A	--	HM	8 3/8"	SEE ELEV	SEE ELEV	SEE ELEV	HM3	--	--	--	--	
B-125A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-126A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-127A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-127B	BORROWED LIGHT	--	--	--	--	A	--	HM	8 3/8"	SEE ELEV	SEE ELEV	SEE ELEV	HM3	--	--	--	--	
B-128A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-130A	SINGLE	2	36 x 84	WD	--	A	--	EXIST	--	--	--	--	--	--	--	--	--	
B-132A	SINGLE	5	36 x 84	AL	--	B	B	AL	4 1/2"	J2	H2	--	SF1	--	YES	YES	1,2,4,6	
B-133A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-134A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	
B-135A	SINGLE	2	36 x 84	WD	--	A	--	HM	8 3/8"	J2	H2	--	HM1	--	--	--	--	

**KEY PLAN**

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**PROJECT**  
21-137  
DATE 10/17/22  
COORDINATED BY DJW  
DRAWN BY JMG  
CHECKED BY DJW

**REVISIONS**

MARK	DATE	ISSUED FOR
AD-1	10/26/22	ADDENDUM NO. 1

**DOOR SCHEDULE, FRAME PROFILES, ELEVATIONS, AND DETAILS**

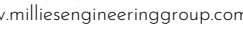
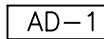
**ELECTRICAL ROUGH-IN AT DOOR FRAME**

**FRAME MOUNTING DETAILS**









DUNELAND SCHOOL CORPORATION  
CHESTERTON, INDIANA

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LIBERTY  
ELEMENTARY  
SCHOOL -  
RENOVATIONS

KEY PLAN

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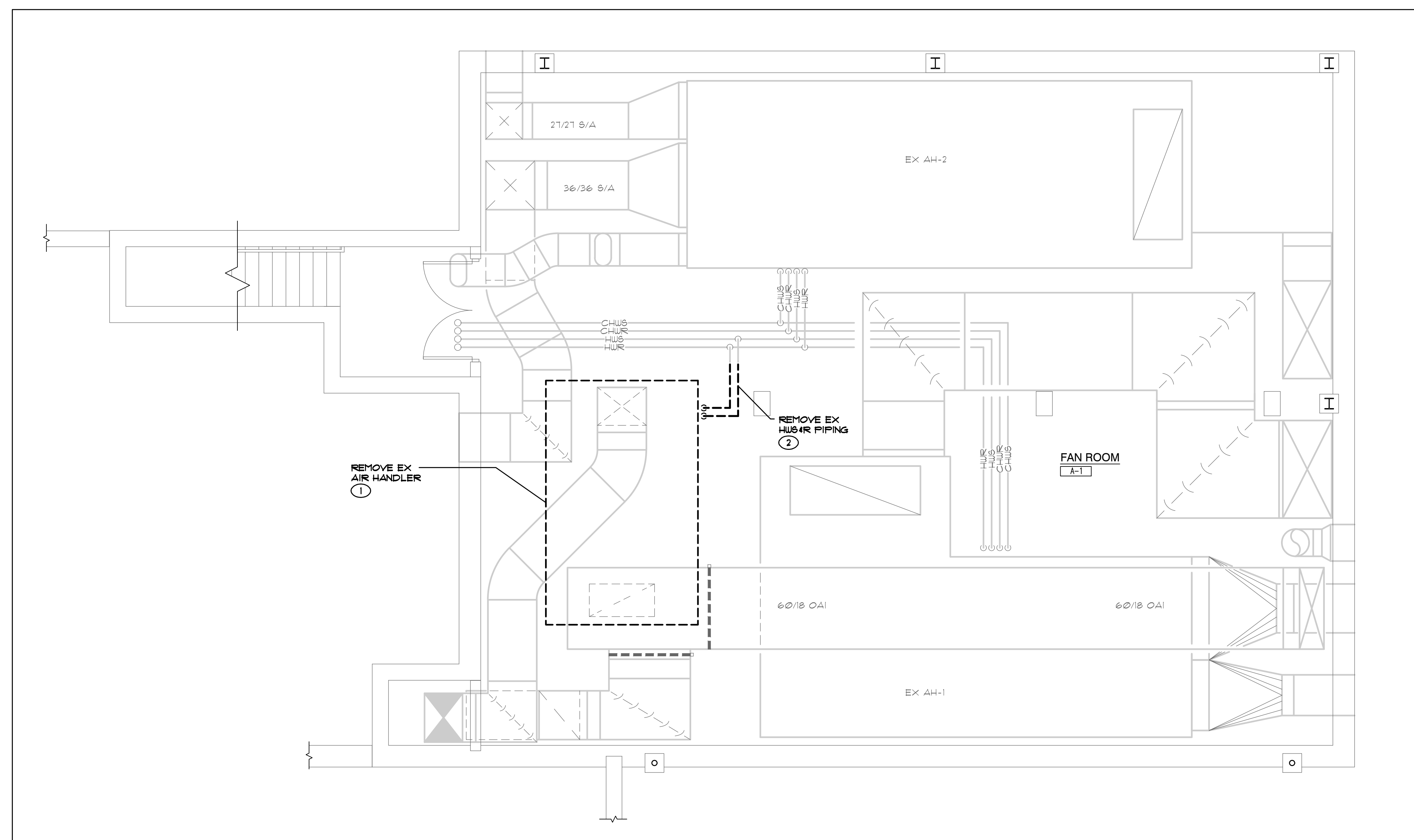
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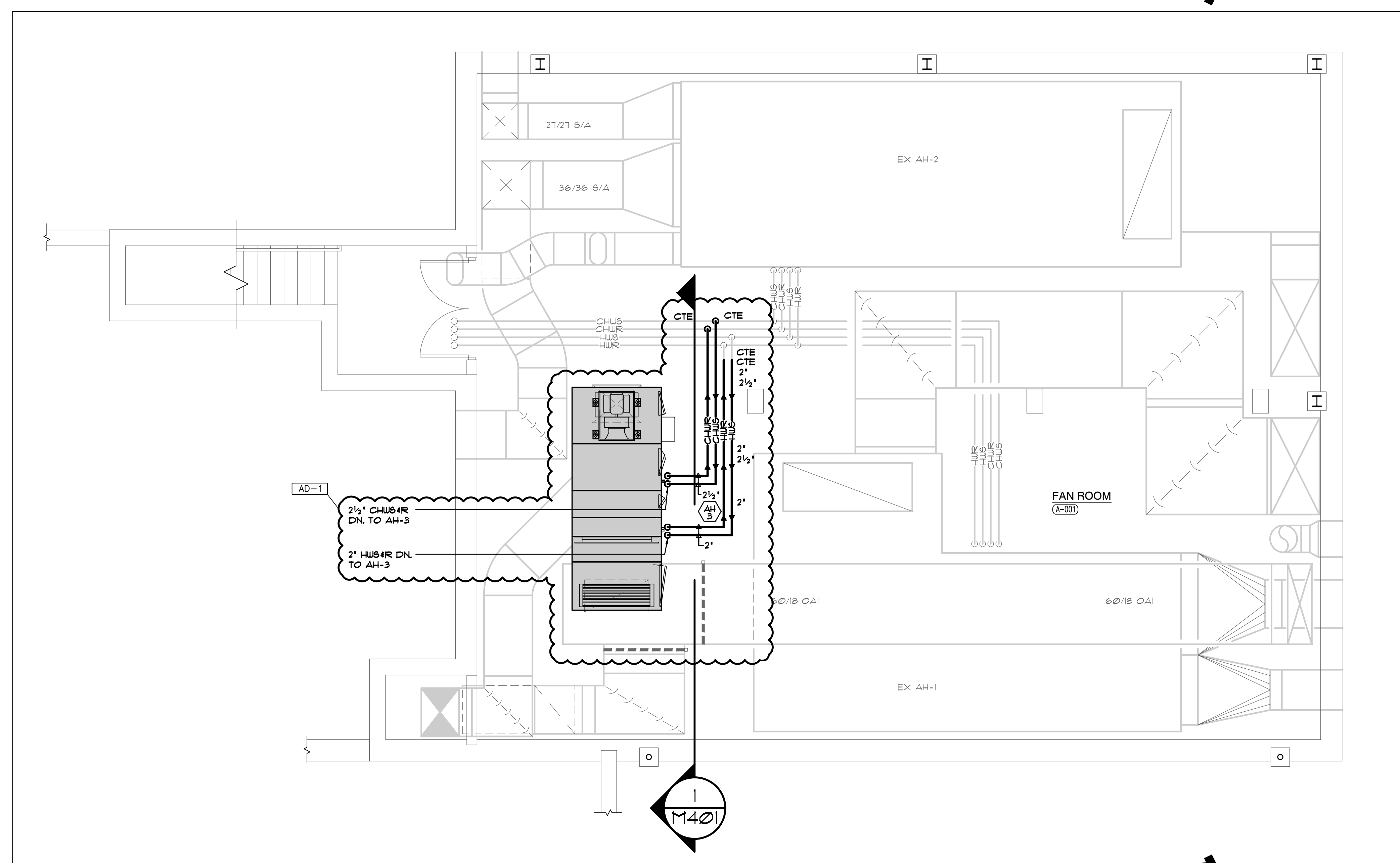
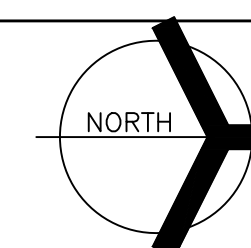
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PROJECT  
LIBERTY ES - RENOVATIONS

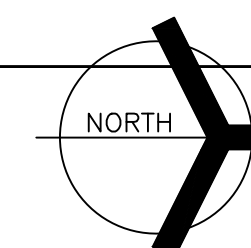
M-401



ENLARGED LOWER LEVEL MECHANICAL DEMOLITION PLAN  
SCALE: 1/4" = 1'-0"



ENLARGED LOWER LEVEL MECHANICAL HVAC PLAN  
SCALE: 1/4" = 1'-0"









[illegible]

**NOTE 4:**  
**PROVIDE AC UNIT WITH:**

- THERMOSTAT/CONTROL PANEL
- CONDENSATE PUMP
- VIBRATION ISOLATION HANGERS

**PROVIDE CU WITH:**

- LOW AMBIENT CONTROLS TO -10°F
- WIND BAFFLES
- HAIL GUARDS
- EQUIPMENT SUPPORT RAILS

**SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.**

**NOTE 5:**  
**PROVIDE WITH:**

- PROVIDE WITH DISCONNECT SWITCH
- ECM MOTOR WITH POTENTIOMETER SPEED CONTROLLER
- MOTORIZED DAMPER
- BIRD SCREEN
- ROOF CURB

**SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.**

AD-1

DUCTWORK INSULATION SCHEDULE		
REFER TO SPECIFICATIONS FOR ADDITIONAL INSULATION REQUIREMENTS		
DUCTWORK TYPE	INSULATION TYPE	
	CONCEALED	EXPOSED
<b>SUPPLY AIR DUCTWORK</b>		
RECTANGULAR	1½" LINER	1½" LINER
ROUND	1½" WRAP, NOTE 1.	PERFORATED DOUBLE WALL
<b>RETURN AIR DUCTWORK</b>		
RECTANGULAR	1½" LINER	1½" LINER
ROUND	PERFORATED DOUBLE WALL	PERFORATED DOUBLE WALL
<b>TRANSFER AIR DUCTWORK</b>	½" LINER	½" LINER
<b>VAV &amp; FAN-POWERED BOXES</b>		
INLET COLLAR	1½" WRAP	1½" WRAP
HOT WATER REHEAT COIL	1½" WRAP	1½" WRAP
<b>EXHAUST DUCTWORK</b>		
WITHIN 10'-0" OF EXHAUST FAN	½" LINER	½" LINER

NOTE 1: ROUND DUCT SUPPLYING ONE DIFFUSER AND MORE THAN 30'-0" FROM UNIT

GRILLE, REGISTER & DIFFUSER SCHEDULE								
TAG	MANUFACTURER	MODEL NO.	DESCRIPTION	AIR PATTERN	MOUNTING	SIZE	TYPE OF CONTROL	REMARKS
A3	NAILOR	6500-O	SUPPLY CEILING DIFFUSER	3-WAY	2' X 2' LAY-IN PANEL	SEE PLANS	O.B.D.	-
A4	NAILOR	6500-O	SUPPLY CEILING DIFFUSER	4-WAY	2' X 2' LAY-IN PANEL	SEE PLANS	O.B.D.	-
A9	NAILOR	6500-O	SUPPLY CEILING DIFFUSER	4-WAY	2' X 1' LAY-IN PANEL	SEE PLANS	O.B.D.	-
R1	NAILOR	6145H-O	RETURN/EXHAUST REGISTER	LOUVERED GRILLE	LAY-IN PANEL	SEE PLANS	O.B.D.	-
T1	NAILOR	6145H	RETURN/EXHAUST/T.A. GRILLE	LOUVERED GRILLE	LAY-IN PANEL	SEE PLANS	-	-
T2	NAILOR	6145H	RETURN/EXHAUST/T.A. GRILLE	LOUVERED GRILLE	DUCT OR SURFACE MTD	SEE PLANS	-	-

\* ALL DIFFUSERS AND REGISTERS SHALL HAVE A WHITE FINISH UNLESS OTHERWISE NOTED

AD-1

PUMP SCHEDULE														
TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	GPM	HEAD (FT.)	PUMP MOTOR DATA						SUCTION/ DISCHARGE SIZE	REMARKS	
						HP	RFM	VOLT	PHASE	HZ.	STARTER MC. EC.			
CP-1	BELL & GOSSETT	SERIES 1B10, 4AD	BASE MOUNTED CHILLED WATER REGULATION PUMP (C-1)	464	35	1 1/2	1750	480	3	60	X	-	3" / 4"	-
CWP-1	BELL & GOSSETT	SERIES 1B10, 2EB	BASE MOUNTED CHILLED WATER DISTRIBUTION PUMP	232	80	10	1750	480	3	60	X	-	3" / 2"	CHILLED WATER PRIMARY PUMPS W/VFD OPERATING IN PARALLEL, 464 GPM AT 80 FT. HD. WITH DUAL POWER FEEDERS
CWP-2	BELL & GOSSETT	SERIES 1B10, 2EB	BASE MOUNTED CHILLED WATER DISTRIBUTION PUMP	232	80	10	1750	480	3	60	X	-	3" / 2"	

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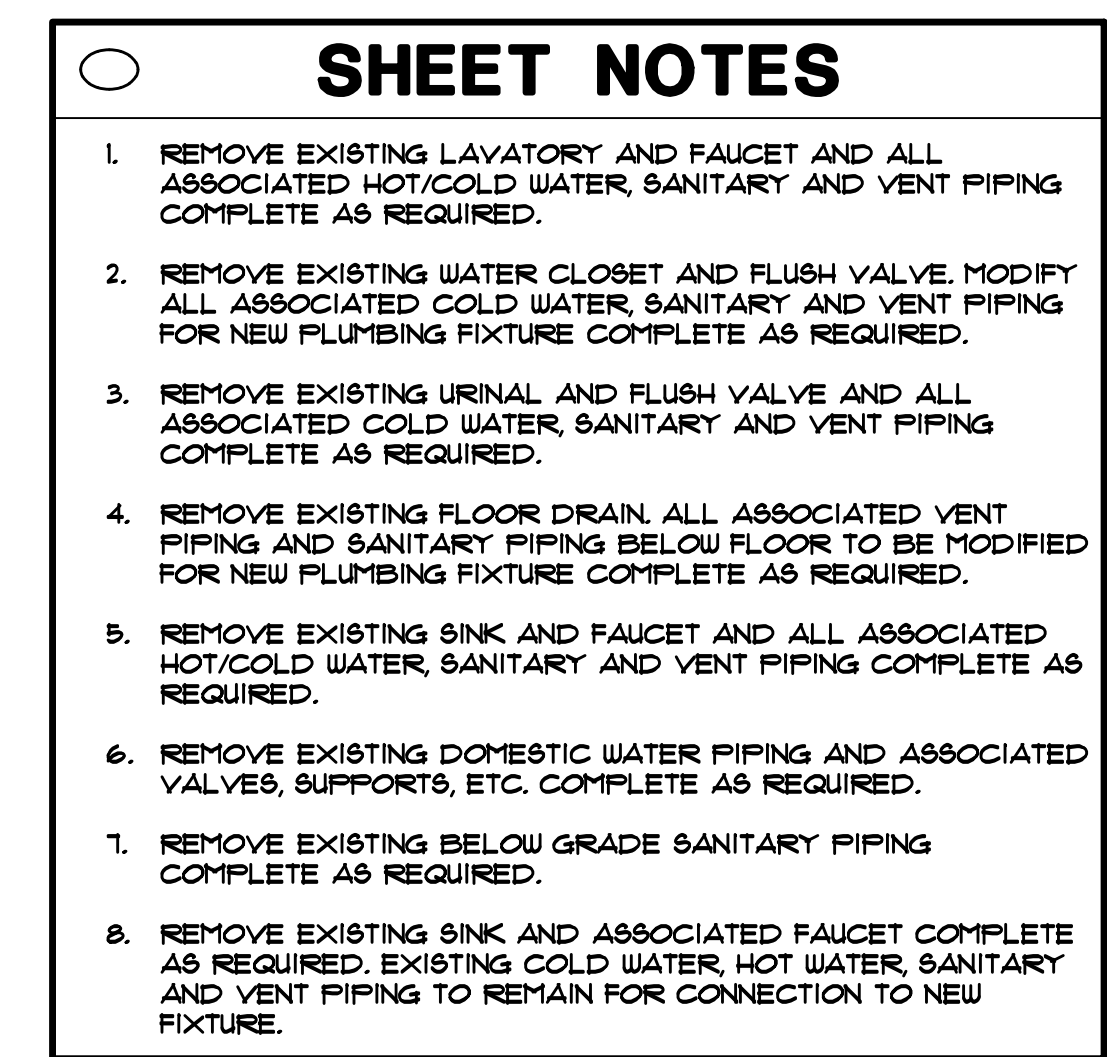
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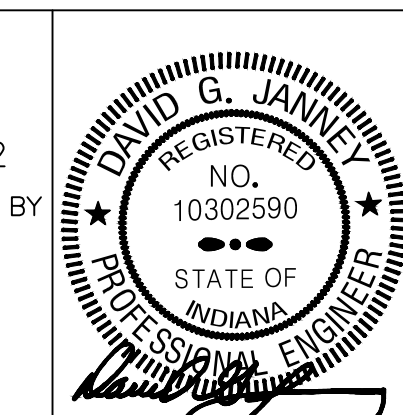
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DRAWING  
UNIT "B" PLUMBING FIRST  
FLOOR DEMOLITION PLAN

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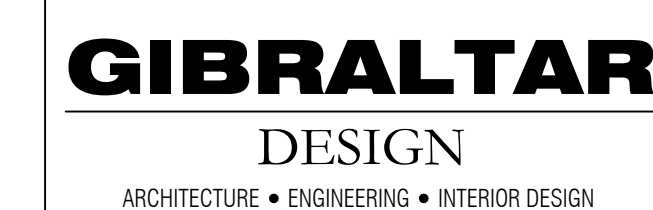
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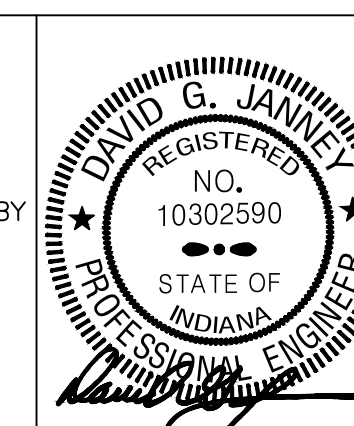
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DRAWING  
UNIT "B" PLUMBING ROOF  
PLAN

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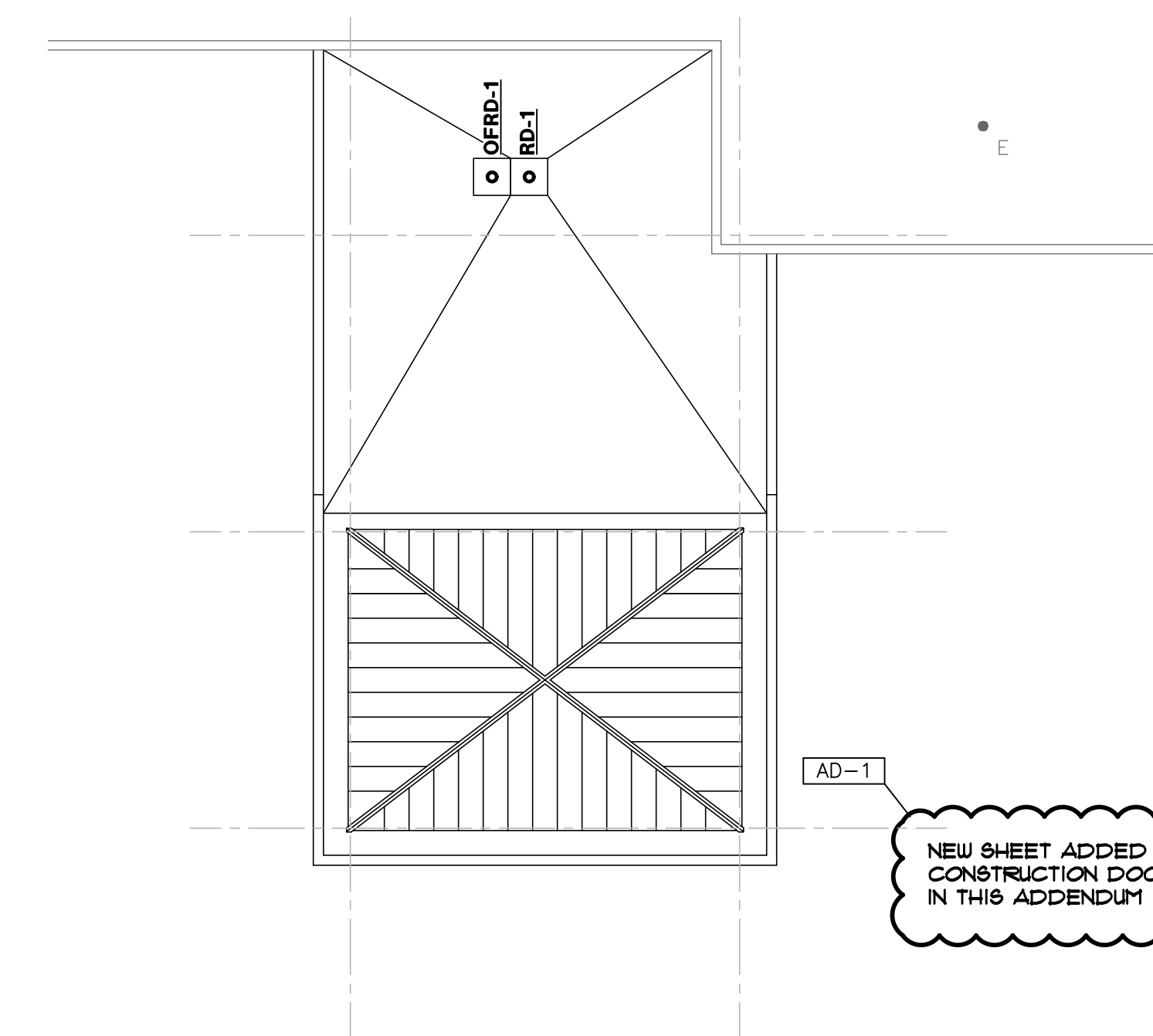
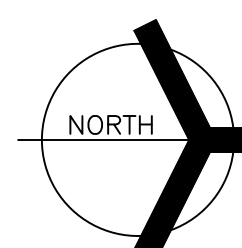
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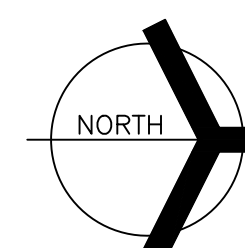
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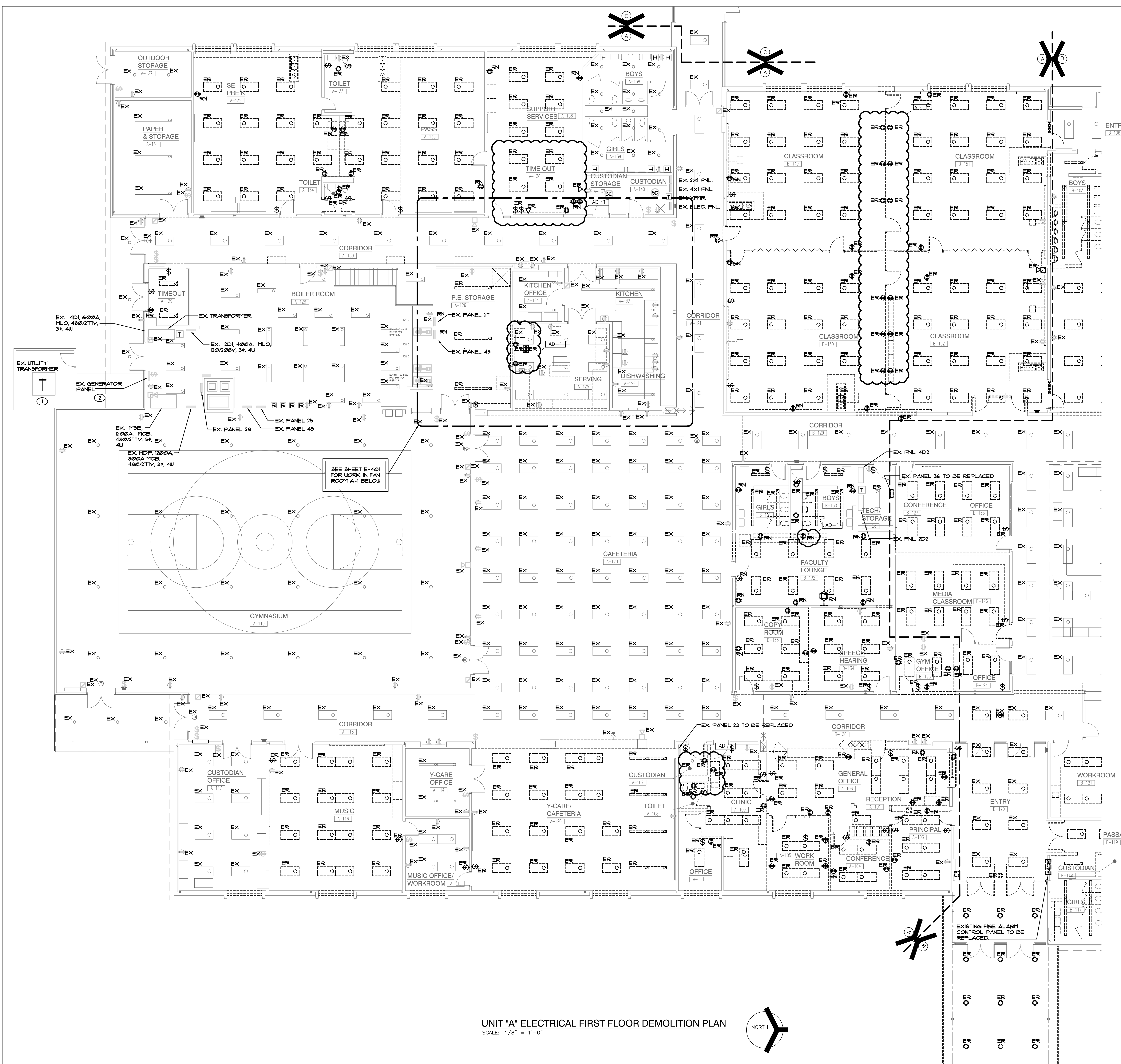
UNIT "B" PLUMBING ROOF PLAN  
SCALE: 1/8" = 1'-0"



PLUMBING CANOPY ALTERNATE ROOF PLAN  
SCALE: 1/8" = 1'-0"







UNIT "A" ELECTRICAL FIRST FLOOR DEMOLITION PLAN  
SCALE: 1/8" = 1'-0"

### GENERAL NOTES

1. THE DEVICES SHOWN ON THE DRAWINGS HAVE BEEN LOCATED AS A SERVICE TO THE CONTRACTOR AND MAY NOT INDICATE THE COMPLETE SCOPE OF DEMOLITION WORK. CONTRACTOR SHALL FIELD VERIFY ALL DEVICES AND VERIFY THE COMPLETE SCOPE OF DEMOLITION WORK WITH ARCHITECT.
2. DISCONNECT AND REMOVE EXISTING LIGHTING (LABELLED 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.
3. CONTRACTOR SHALL CAREFULLY VERIFY EXISTING CONDUITS, BOXES, DEVICES, EQUIPMENT, LOW VOLTAGE DEVICES, ETC. LOCATED ON THE CEILING AND ON THE WALLS IN WHICH ARCHITECTURAL MODIFICATIONS, STRUCTURAL MODIFICATION OR NEW CEILING WILL BE LOCATED. CONTRACTOR SHALL REMOVE AND RELOCATE ALL CEILING AND WALL MOUNTED DEVICES AS REQUIRED TO ELIMINATE CONFLICTS BETWEEN EXISTING DEVICES AND ARCHITECTURAL/STRUCTURAL MODIFICATIONS. PROVIDE NEW SURFACE RACEWAY AND SURFACE RACEWAY BACKBOXES AS REQUIRED FOR ALL RELOCATED DEVICES, COMPLETE AS REQUIRED.
4. ALL LIGHT SWITCHES, SENSORS AND CONTROL DEVICES THAT BECOME ABANDONED AS PART OF THE WORK SHALL BE REMOVED.
5. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS OF MECHANICAL AND PLUMBING EQUIPMENT THAT ARE REMOVED AS PART OF THIS WORK OR HAS BEEN PREVIOUSLY REMOVED BY OTHERS. ALL ABANDONED ELECTRICAL CONNECTIONS, WIRING, ACCESSIBLE CONDUIT, ETC. ARE TO BE REMOVED BACK TO SOURCE PANEL, COMPLETE AS REQUIRED.

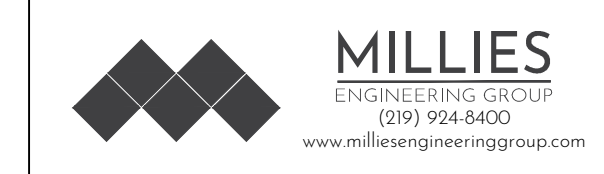
### SHEET NOTES

1. EXISTING CUSTOMER OWNED UTILITY TRANSFORMER TO BE REPLACED WITH NEW UTILITY OWNED EQUIPMENT. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
2. EXISTING INCOMING GENERATOR FEED FROM ADJACENT INTERMEDIATE SCHOOL TO BE DISCONNECTED AND REMOVED. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.



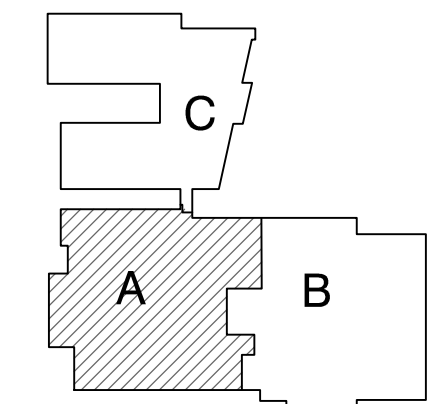
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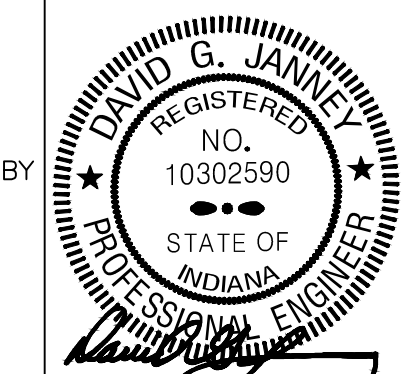


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DRAWING  
**UNIT "A" ELECTRICAL  
FIRST FLOOR DEMOLITION  
PLAN**

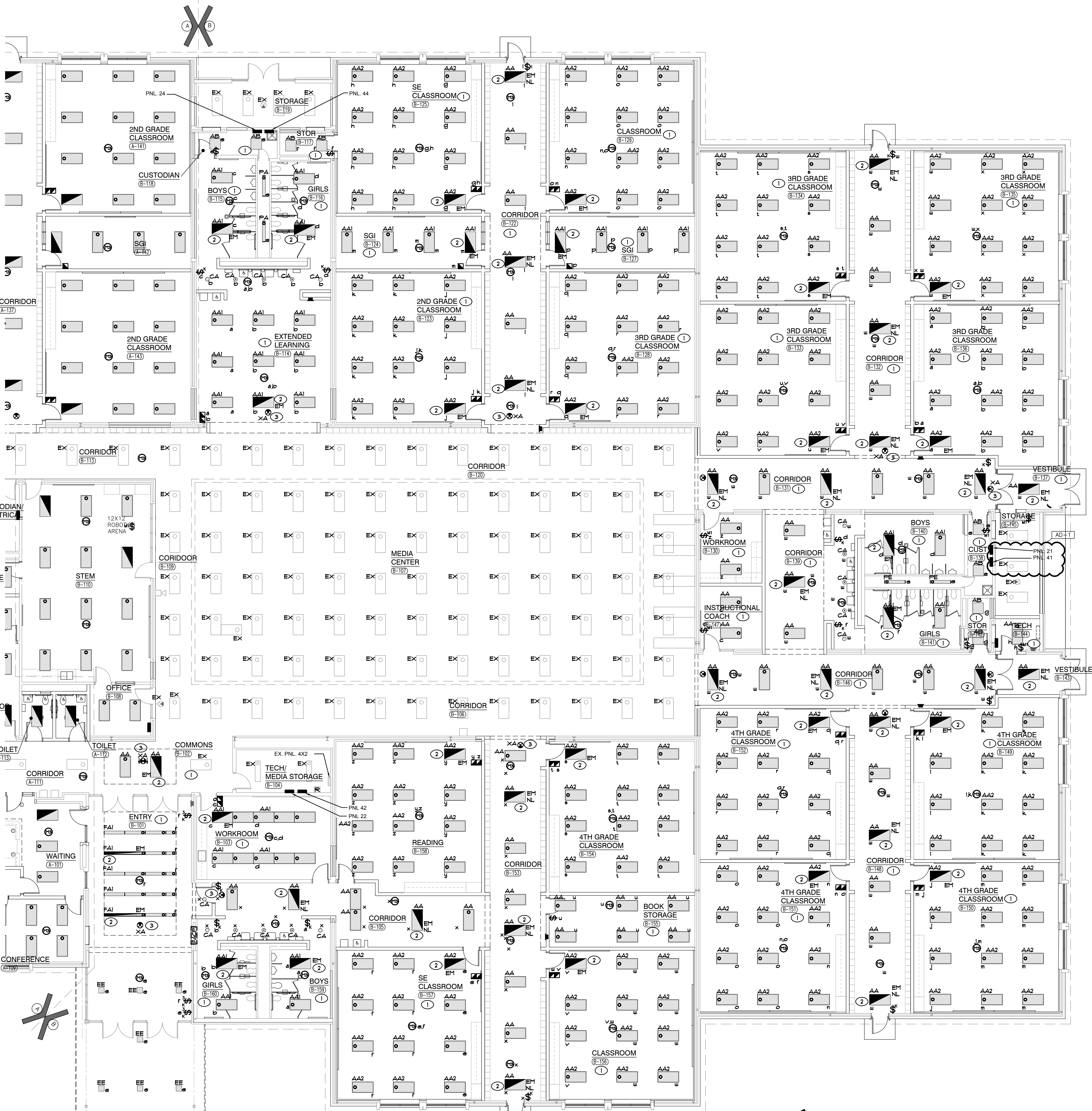
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UNIT "B" ELECTRICAL FIRST FLOOR LIGHTING PLAN  
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. CIRCUIT ALL NORMAL LIGHTING FIXTURES TO PANEL xx UNLESS OTHERWISE NOTED.
2. SHADED FIXTURES, FIXTURES WITH 'EM' TAGS AND EXIT SIGNS SHALL BE PROVIDED WITH AN EMERGENCY LIFE SAFETY POWER SOURCE.
3. EXIT SIGNS SHALL BE CONNECTED TO CIRCUIT INDICATED IN EMERGENCY LIFE SAFETY PANEL xx.
4. FIXTURES WITH A 'NL' TAG SHALL BE CONNECTED TO THE NIGHT LIGHT CIRCUIT INDICATED IN EMERGENCY LIFE SAFETY PANEL xx.
5. CIRCUIT TAGS WITH AN 'E' PREFIX SHOWN WITH A SWITCH LEG SHALL BE A SWITCHED EMERGENCY FIXTURE CONNECTED TO PANEL xx. THE FIXTURE SHALL BE PROVIDED WITH A UL924 RATED BYPASS DEVICE TO ALLOW THE FIXTURE TO BE CONTROLLED ALONG WITH THE NORMAL FIXTURES IN THE ROOM. UPON LOSS OF POWER, THE FIXTURE SHALL BE IMMEDIATELY POWERED TO 100% REGARDLESS OF SWITCH POSITION.
6. CIRCUIT ALL NORMAL EXTERIOR LIGHTING FIXTURES ACCORDING TO PANEL xx. VOLTAGE, TIMECLOCK, PHOTOCELL, AND CONTACTORS.
7. EXTERIOR LIGHTING FIXTURES WITH AN 'E' PREFIX SHOWN SHALL BE ROUTED TO LIFE SAFETY PANEL 11 VIA TIMECLOCK, CONTACTORS, PHOTOCELL, AND UL924 BYPASS DEVICE. AS REQUIRED TO ALLOW FIXTURE TO OPERATE AND SWITCH ALONG WITH ADJACENT NORMAL LIGHTING UPON LOSS OF POWER, THE FIXTURE SHALL BE IMMEDIATELY POWERED TO 100% REGARDLESS OF SWITCH POSITION.
8. EMERGENCY SENSING LEADS SHALL BE CONNECTED TO CONSTANT HOT FEEDS FROM NORMAL LIGHTING IN ROOM. THIS FEED SHALL BE TAKEN AHEAD OF ANY EMERGENCY SHUTDOWNS, RELAYS, CONTACTORS OR SWITCHES.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHT FIXTURES.
10. ROUTE CONDUIT AS TIGHT TO THE EXPOSED CEILING AND STRUCTURE AS POSSIBLE TO MAXIMIZE CEILING SPACE.
11. VERIFY TEACHING SURFACE WITH OWNER'S REPRESENTATIVE IN FIELD PRIOR TO INSTALLATION AND ADJUST SWITCHING TO PROPERLY ILLUMINATE TEACHING SURFACE. CAREFULLY COORDINATE FINAL SWITCHING WITH FINAL FURNITURE PLANS AND TEACHING WALL LOCATIONS.

SHEET NOTES

1. RECONNECT NEW LIGHTING FIXTURES IN THIS SPACE TO EXISTING LIGHTING CIRCUITRY AND NEW SWITCHING DEVICES. COMPLETE AS REQUIRED. MAXIMUM 44000U PER 211 VOLT CIRCUIT. WHERE NECESSARY, DUE TO LIMITATIONS IN THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL, AND EXTEND 2 #2 AND 1 #2 GRD IN 3/4" CONDUIT COMPLETE AS REQUIRED. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.
2. RECONNECT NEW EMERGENCY LIGHTING FIXTURES TO EXISTING EMERGENCY LIGHTING CIRCUITRY AND NEW SWITCHING DEVICES. COMPLETE AS REQUIRED. MAXIMUM 44000U PER 211 VOLT CIRCUIT. PROVIDE UL924 RELAY DEVICE AS REQUIRED TO ACCOMPLISH REQUIRED EMERGENCY SWITCHING. WHERE NECESSARY, DUE TO LIMITATIONS IN THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING EMERGENCY PANEL, AND EXTEND 2 #2 AND 1 #2 GRD IN 3/4" CONDUIT COMPLETE AS REQUIRED. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.
3. RECONNECT NEW EXIT SIGN LIGHTING FIXTURES TO EXISTING EXIT SIGN EMERGENCY LIGHTING CIRCUITRY. COMPLETE AS REQUIRED. MAXIMUM 44000U PER 211 VOLT CIRCUIT. WHERE NECESSARY, DUE TO LIMITATIONS IN THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL, AND EXTEND 2 #2 AND 1 #2 GRD IN 3/4" CONDUIT COMPLETE AS REQUIRED. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.



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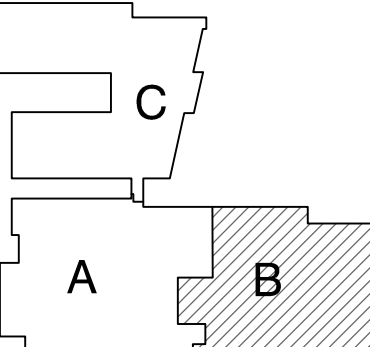
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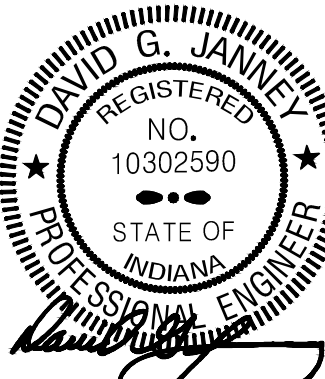


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DRAWING  
**UNIT "B" ELECTRICAL  
FIRST FLOOR LIGHTING  
PLAN**

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**B EL102**

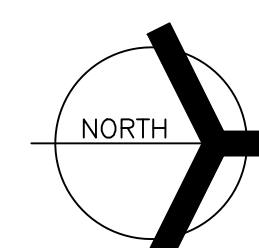
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1. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ELECTRICAL CIRCUITING AND WIRING REQUIREMENTS.
2. EXISTING CUSTOMER OWNER UTILITY TRANSFORMER TO BE REPLACED WITH NEW UTILITY OWNED UNIT FOR SECONDARY METERING. COORDINATE WITH UTILITY COMPANY FOR TRANSFORMER REPLACEMENT AND PAD REQUIREMENTS.
3. PROVIDE AND INSTALL C/T CABINET AND METER FOR SECONDARY METERING. COORDINATE UTILITY COMPANY AS REQUIRED. INSTALL NEW SECONDARY FEEDERS FROM TRANSFORMER TO MAIN SWITCHBOARD.

**UNIT "A" ELECTRICAL FIRST FLOOR POWER PLAN**  
SCALE: 1/8" = 1'-0"

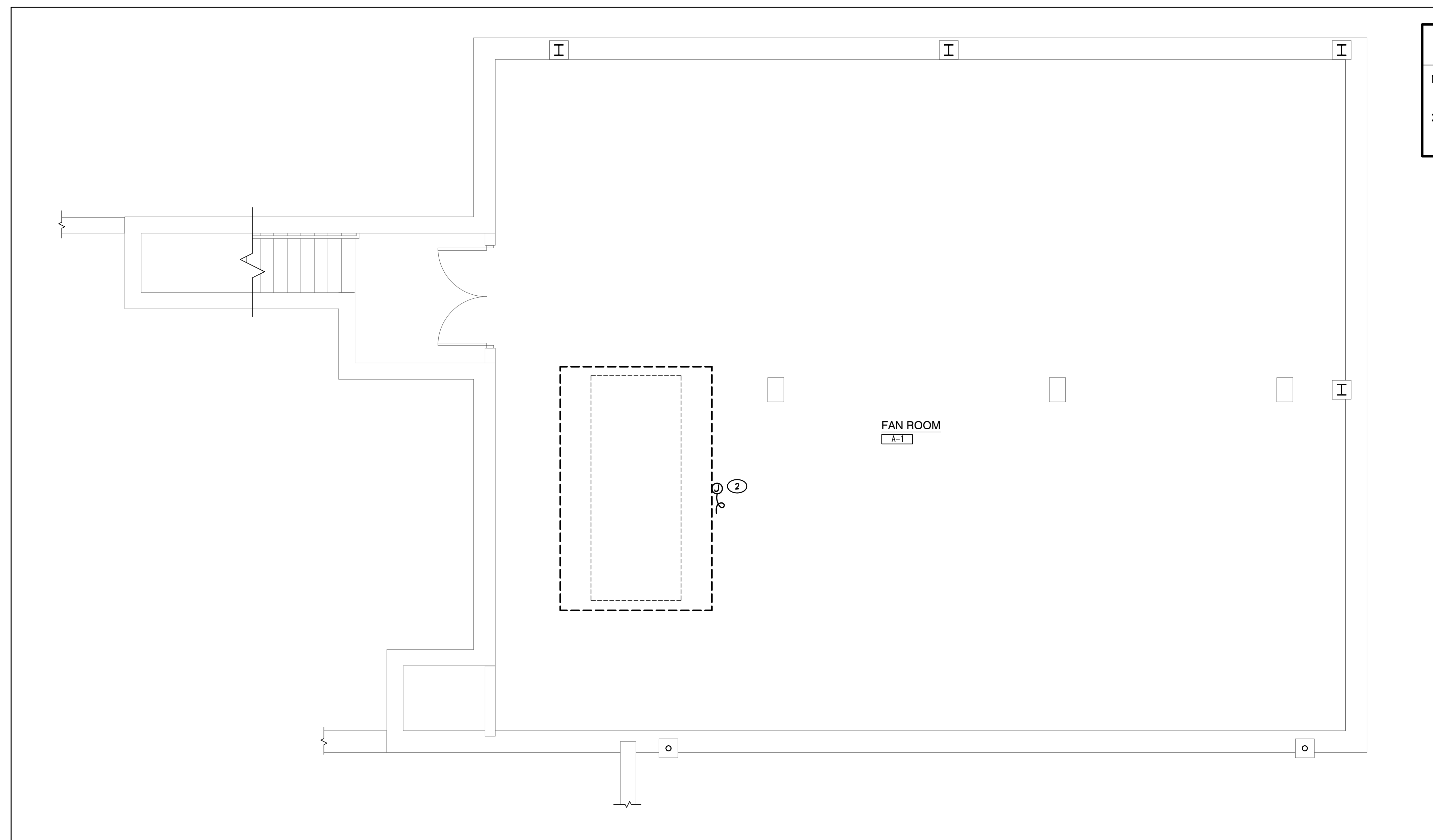




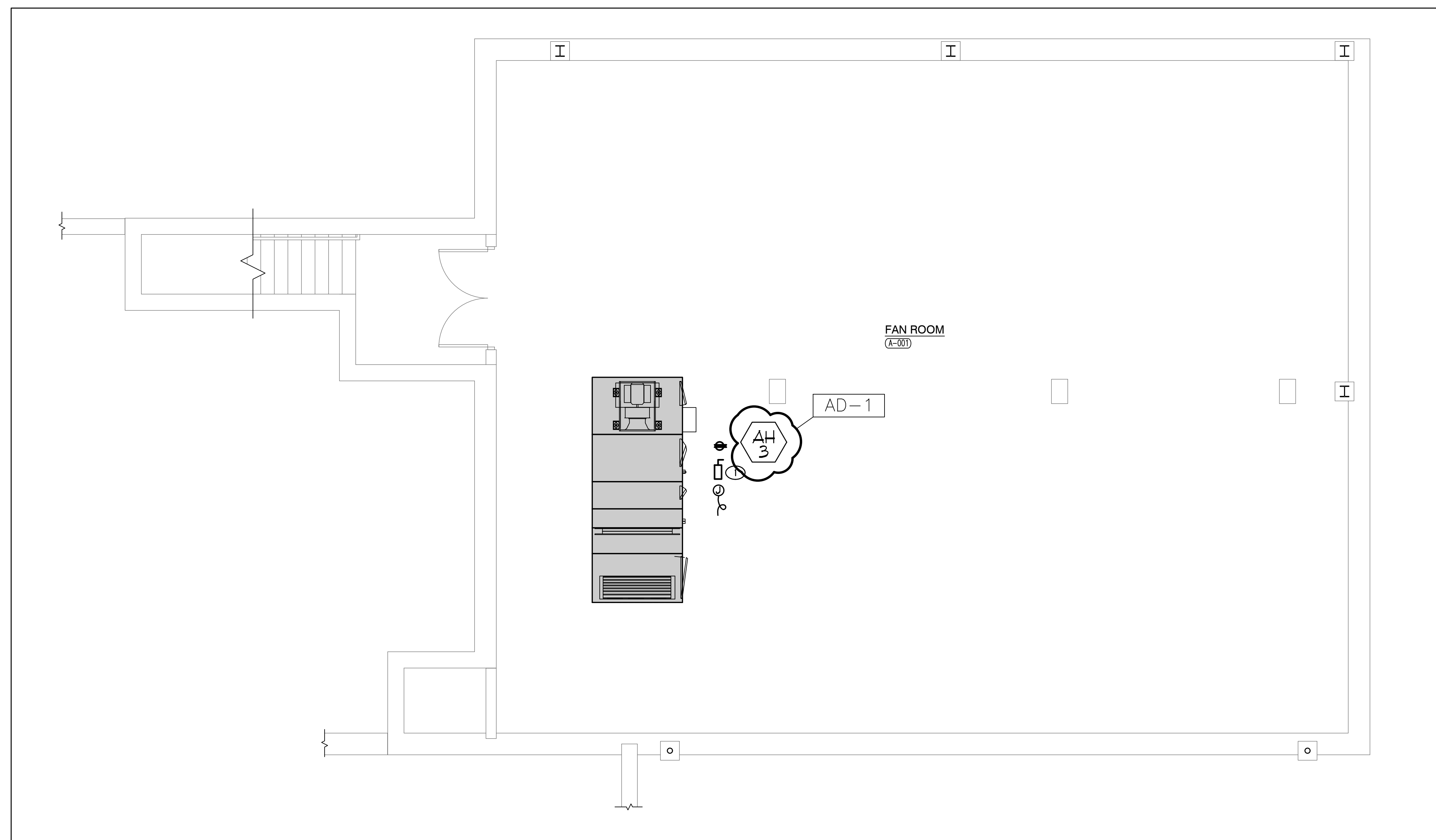
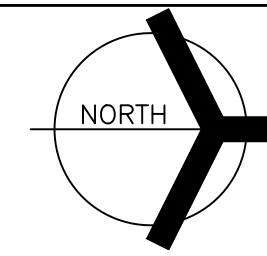




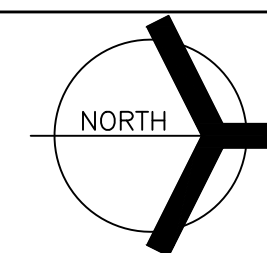




**ENLARGED ELECTRICAL DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"



**ENLARGED ELECTRICAL POWER PLAN**  
SCALE: 1/4" = 1'-0"



## SHEET NOTES

1. REFER TO MECHANICAL EQUIPMENT CONNECTION FOR ADDITIONAL CIRCUITING AND WIRING INFORMATION.
2. ELECTRICALLY DISCONNECT EXISTING MECHANICAL EQUIPMENT AND REMOVE COMPLETE BACK TO SOURCE.



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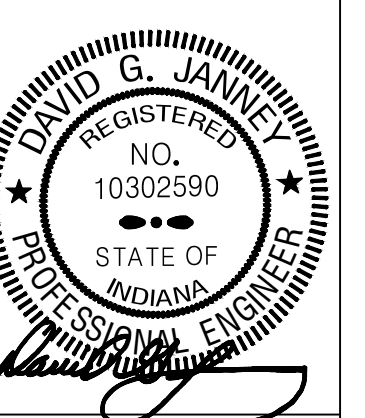
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## ENLARGED ELECTRICAL POWER PLANS

PROJECT

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## LIGHTING CONTROL SYSTEM NOTES

1. UNLESS NOTED OTHERWISE, THE LIGHTING CONTROL SYSTEM SHALL BE A STAND ALONE SENSOR/SWITCH WIRED SYSTEM COMPLETE WITH OCCUPANCY SENSORS, POWER FACTS, EMERGENCY ACCESSORIES, ETC SYSTEM TO BE PROVIDED WITH COMPONENTS AND ACCESSORIES AS REQUIRED TO PROVIDE FUNCTIONALITY PER THE CONTRACT DOCUMENTS.
2. LIGHTING CONTROL EQUIPMENT WILL BE CONSIDERED FROM THE FOLLOWING MANUFACTURERS: WATT STOPPER, LEVITON OR HUBBELL CONTROLS. THE SUBMITTED LIGHTING CONTROL SYSTEM SHALL PROVIDE FULL LIGHTING CONTROL FUNCTIONALITY AS SPECIFIED.
3. BECAUSE OF DIFFERENCES BETWEEN MANUFACTURERS, DIAGRAMS SHOWN ARE DIAGRAMMATIC AND MAY NOT SHOW ALL PARTS AND ACCESSORIES REQUIRED. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH LIGHTING CONTROL MANUFACTURERS AND CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE ALL PARTS AND ACCESSORIES REQUIRED FOR A COMPLETE AND PROPERLY OPERATING SYSTEM AS SHOWN ON CONTRACT DOCUMENTS. VERIFY ALL CONDITIONS AND REQUIREMENTS, COMPLETE AS REQUIRED.
4. NO EXTRAS SHALL BE ALLOWED AFTER BIDDING FOR NOT FULLY UNDERSTANDING THE SCOPE OF WORK INVOLVED OR TO FULLY ACCOMPLISH THE SWITCHING SCHEME SHOWN ON THE CONTRACT DOCUMENTS.
5. PROVIDE 12 HOURS OF FACTORY COMMISSIONING AND 6 HOURS FACTORY TRAINING FOR THE OWNER'S BUILDING STAFF.
6. UL324 BYPASS DEVICES SHALL BE PROVIDED FOR ALL FIXTURES WITH AN EMERGENCY SOURCE OF POWER THAT IS SWITCHED. THE UL324 BYPASS SHALL PROVIDE BYPASS FOR BOTH THE POWER AND CONTROL SIGNAL, COMPLETE AS REQUIRED.
7. ALL LOW VOLTAGE CABLEING SHALL BE PLENUM RATED, CABLEING ROUTED IN CONCEALED AREAS SHALL BE ROUTED NEATLY EXPOSED USING J-HOOKS. CABLEING LOCATED IN EXPOSED CEILINGSS SHALL BE CONCEALED IN NEATLY ROUTED CONDUIT. LOW VOLTAGE CABLEING INSTALLATION SHALL FULLY MEET LOCAL CODE REQUIREMENTS.

## LIGHTING FIXTURE GENERAL NOTES

1. INTERIOR FIXTURES, EXTERIOR FIXTURES AND POLE FINISHES 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. SHADED FIXTURES SHALL HAVE AN EMERGENCY SOURCE OF POWER AS SPECIFIED.
4. EXTERIOR LIGHTING POLES SHALL BE PROVIDED WITH STRAIGHT SQUARE ALUMINUM POLES WITH CAST BASE COVERS AND VIBRATION DAMPENERS. THE POLES SHALL BE SIZED PROPORTIONATE TO THE FIXTURE WEIGHT AT A MINIMUM OF 13 GUST FACTOR. MINIMUM POLE SIZE TO BE 9" SQUARE. PROVIDE ADDITIONAL MOUNTING ACCESSORIES AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION.
5. FOR EXTERIOR POLE MOUNTED LIGHTING, PROVIDE FACTORY MOUNTED HOUSE SIDE SHIELDS INTEGRAL TO THE FIXTURE AS SPECIFIED. ADDITIONALLY, PROVIDE CUSTOM FABRICATED POLE MOUNTED HOUSE SIDE SHIELDING AS REQUIRED TO CONTROL LIGHT TRESPASS AND COMPLY WITH LOCAL REQUIREMENTS.
6. 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.
1. VERIFY FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
8. FOR FIXTURES INSTALLED IN CASEWORK, VERIFY FIXTURE FIT WITH CASEWORK SHOP DRAWINGS PRIOR TO ORDERING.
9. PROVIDE CUSTOM ANTI-SWAY BRACING FOR PENDANT TO ELIMINATE PENDANT MOVEMENT DUE TO AIR MOVEMENT OR ENVIRONMENTAL CAUSES.
10. 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.
11. 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.
12. PROVIDE 5000K COLOR TEMPERATURE IN SPECIAL EDUCATION SPACES AS SPECIFIED.
13. 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.
14. 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.
15. CAREFULLY COORDINATE VOLTAGES OF FIXTURES PRIOR TO ORDERING FIXTURES.
16. APPROVED EQUALS WILL BE CONSIDERED FROM THE FOLLOWING VENDORS: K&A LIGHTING (630)307-6955, CHICAGO LIGHT WORKS (719)240-5030 OR PG ENLIGHTEN (847)228-1193.
17. CAREFULLY VERIFY COLOR TEMPERATURE OF FIXTURES WITH ARCHITECT PRIOR TO ORDERING.

INTERIOR LIGHTING LUMINAIRE SCHEDULE							
TAG	SYMBOL	DESCRIPTION	MANUFACTURER SERIES OR CATALOG NUMBER	VOLTAGE/ BALLAST	LAMPS/CROSS SECTION	MOUNTING	REMARKS
AA		2' X 4' LED DIRECT/INDIRECT FIXTURE	LITHONIA 72BLT4-40L-ADP-GZI-LF840 COLUMBIA 4CAT24-40-LW-G-EDI-U DAY-BRITE 72FGX40LB40-4-RS-UNV-DIM	MY VOLT 0-10V DIM -	LED 4000K MAX 32 W MIN 4000 LM	RECESSED LAY-IN -	- - -
AA1		2' X 4' LED DIRECT/INDIRECT FIXTURE	LITHONIA 72BLT4-48L-ADP-GZI-LF840 COLUMBIA 4CAT24-40-HL-G-EDI-U DAY-BRITE 72FGX48LB40-4-RS-UNV-DIM	MY VOLT 0-10V DIM -	LED 4000K MAX 38 W MIN 4800 LM	RECESSED LAY-IN -	- - -
AA2		2' X 4' LED DIRECT/INDIRECT FIXTURE	LITHONIA 72BLT4-60L-ADP-GZI-LF840 COLUMBIA 4CAT24-40-VL-G-EDI-U DAY-BRITE 72FGX60LB40-4-RS-UNV-DIM	MY VOLT 0-10V DIM -	LED 4000K MAX 48 W MIN 6000 LM	RECESSED LAY-IN -	- - -
AB		2' X 2' LED DIRECT/INDIRECT FIXTURE	LITHONIA 72BLT2-48L-ADP-GZI-LF840 COLUMBIA 4CAT22-40-VL-G-EDI-U DAY-BRITE 72FGX48LB40-2-RS-UNV-DIM	MY VOLT 0-10V DIM -	LED 4000K MAX 14 W MIN 4800 LM	RECESSED LAY-IN -	- - -
AB1		2' X 2' LED DIRECT/INDIRECT FIXTURE	LITHONIA 72BLT2-40L-ADP-GZI-LF840 COLUMBIA 4CAT22-40-HL-G-EDI-U DAY-BRITE 72FGX40LB40-2-RS-UNV-DIM	MY VOLT 0-10V DIM -	LED 4000K MAX 32 W MIN 4000 LM	RECESSED LAY-IN -	- - -
CA		6" DIAMETER LED DOWNLIGHT WITH BENT-SPECULAR ALUM. REFLECTOR, IRIDESCENT FREE FINISH, 1 WHITE FLANGE	LITHONIA 4DN6-40-15-L06-AR-L85-MVOLT -G210-XX FRESCOLITE 4TR-8L15L-DM1 / 4LTR-6RD-T-8L-4000K LIGHTOLIER 45N / 75ARDL15840UCCDZ10U	MY VOLT 0-10V DIM -	LED 4000K MAX 18 W MIN 1800 LM	RECESSED LAY-IN/ DRYWALL	-VERIFY TRIM FINISH WITH ARCHITECT
FA		LINEAR LED FIXTURE FOR DISPLAY CASE WITH 45 DEG. EXTENSION AND CONTINUOUS LENGTHS AS SHOWN	OPTIC ARTS 4LT3-HO-4K-XX-XX-XX-X Q-TRAN 9W 24-50-DRY-40K / VEVE-FR ACOLITE 9W-30-50S565-5040 PROVIDE WITH POWER SUPPLIES AND ALL ACCESSORIES AS REQUIRED	MY VOLT MLV DIM -	LED 4000K MAX 45W/FT MIN 440 LM/FT	SURFACE	-VERIFY FINISH WITH ARCHITECT -COORDINATE MOUNTING WITH CASEWORK
FA1		LED 4" WIDE CONTINUOUS LINEAR SLOT FIXTURE	MARK 4SL4L-LOP-X-FLP-X-80CRI-40K-800L/FT -MINI-MVOLT NULITE 7644-09-140-UNV-D-X-X-FRE-XX-XX FINELITE 4194-R-D-X-V-840-F-96LG-UNV -SC-FC-10-X-FE-X	120/711 VOLT 0-10V DIM	LED 4000 K MIN 800LM/FT MAX 8W/FT	RECESSED LAY-IN/ DRYWALL	-PROVIDE LENGTHS AS SHOWN ON DRAWINGS -VERIFY FINISH WITH ARCHITECT -COORDINATE EMERGENCY CIRCUITS AND SWITCHING WITH FLANS
FA		4' LED INDUSTRIAL FIXTURE WITH WIREGUARD AND SAFETY CHAINS	LITHONIA 4CLX-L48-1000LM-6EF-FDL-MVOLT -G210-40K-80CRI-XX-XX-XX COLUMBIA 41P84-40X-L-FU-EDI-U-1P840G4 DAY-BRITE 758410L840-UNV-DIM-F58G4	MY VOLT 0-10V DIM	LED 4000K CRI 80 MIN 10000 LM	T'Y CHAIN SUSPEND -	-COORD LOCATIONS WITH DUCTWORK & PIPING
XA		SINGLE FACE EXIT, AC ONLY	LITHONIA 4LE-8-X-1-R-X DUAL-LITE 92E-8-R-X CHLORIDE 95L-3-X-X-R	120 VOLT -	LED MAX 3W -	CEILING/ WALL -	-VERIFY FINISH WITH ARCHITECT -PROVIDE WITH ARROWS AS REQUIRED
XB		DUAL FACE EXIT AC ONLY	LITHONIA 4LE-8-X-2-R-X DUAL-LITE 92E-D-R-X CHLORIDE 95L-3-X-X-R	120 VOLT -	LED MAX 3W -	CEILING/ WALL -	-VERIFY FINISH WITH ARCHITECT -PROVIDE WITH ARROWS AS REQUIRED
XC		SINGLE FACE EXIT, AC ONLY, BLACK FINISH	LITHONIA 4LE-8-X-1-R-X DUAL-LITE 92E-8-R-X CHLORIDE 95L-3-X-X-R	120 VOLT -	LED MAX 3W -	CEILING/ WALL -	-VERIFY FINISH WITH ARCHITECT -PROVIDE WITH ARROWS AS REQUIRED
EM		FIXTURE ON EMERGENCY LIFE SAFETY GENERATOR CIRCUIT WITH UL924 BYPASS60S AS REQUIRED	-	MY VOLT	-	IN FIXTURE/ REMOTE	-
NL		CONSTANT NIGHT UNSWITCHED NIGHT LIGHT FIXTURE	-	-	-	-	-

MECHANICAL EQUIPMENT CONNECTION SCHEDULE																		
TAG	DESCRIPTION	LOAD					MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH	FEEDER		STARTER BY:		LOCATION	REMARKS
		WATTS	HP	MCA	FLA	AMPS							C/B	CABLE	C	MC.		
C-1	ROOF MOUNTED AIR COOLED CHILLER WITH REMOTE INTERIOR BUNDLE	363715	-	438	-	-	600	480	3	M8B	-	600A/3P	3 SETS OF 4 "350 4 1/4 GRD"		X	-	-	-
AH-3	INTERIOR AIR HANDLING UNIT - CHILLED WATER COOLING / HOT WATER HEATING	11418	-	14	-	-	20	480	3	MDP	-	20A/3P	4 "2 4 1/2 GRD	3/4"	X	-	-	-
RT-1	ROOF MOUNTED GAS FIRED / DX COOLING ROOFTOP UNIT-VAV	7474	-	9	-	-	15	480	3	MDP		15A/3P	4 "2 4 1/2 GRD	3/4"				
AC-1/CU-1	WALL MTD AC UNIT / ROOF MOUNTED CONDENSING UNIT	3882	-	19	-	-	26	208	1	FNL 41	-	25A/3P	3 "2 4 1/2 GRD	3/4"	-	X	-	-
GEF-1	ROOF MOUNTED GENERAL EXHAUST FAN- CONSTANT EXH REF EXH SYSTEM (BOILER ROOM A-128)	1176	1/2	-	-	-	-	120	1	2DL	-	20A/1P	2 "2 4 1/2 GRD	3/4"	-	X	-	-
GEF-2	ROOF MOUNTED GENERAL EXHAUST FAN - REFRIGERANT EXH SYSTEM (BOILER ROOM A-128)	1920	1	-	-	-	-	120	1	2DL	-	20A/1P	2 "2 4 1/2 GRD	3/4"	-	X	-	-

PUMP EQUIPMENT CONNECTION SCHEDULE															
TAG	DESCRIPTION	LOAD WATTS	HP	MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH C/B	FEEDER		STARTED BY:		LOCATION	REMARKS
										CABLE	C	MC	EC		
CP-1	BASE MOUNTED CHILLED WATER RECIRCULATION PUMP (C-1)	9134	1 1/2	-	480	3	4D1	-	20A/3P	4 #2 @ 1 #2 GRD.	¾"	-	-	-	-
CWP-1	BASE MOUNTED CHILLED WATER DISTRIBUTION PUMP	11626	10	-	480	3	4D1	-	25A/3P	4 #0 @ 1 #0 GRD	¾"	-	-	-	-
CWP-2	BASE MOUNTED CHILLED WATER DISTRIBUTION PUMP	11626	10	-	480	3	4D1	-	25A/3P	4 #0 @ 1 #0 GRD	¾"				



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