ADDENDUM NO. 3

April 12, 2022

COLONEL JOHN WHEELER MIDDLES SCHOOL ADDITION, RENOVATION, AND RELATED WORK
Crown Point, IN 46307

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 March 14, 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 3-1 through ADD 3-3 and attached Addendum No. 3 from Gibraltar Design dated April 11, 2022 and consisting of 7 pages, Specification Section 23 73 00 - Interior Central Station Air Handling Units, and 50 drawings.

A. SPECIFICATION SECTION 00 00 20 - TABLE OF CONTENTS

1. **Add:**

   Specification Section 23 73 00 - Interior Central Station Air Handling Units

B. SPECIFICATION SECTION 00 31 00 - INDIANA BID FORM

1. **Replace:**

   The Bid Form with the attached revised Bid Form

C. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

K. BID CATEGORY NO. 11 - MECHANICAL

1. **Add:**

   Specification Section 23 73 00 - Interior Central Station Air Handling Units

D. SPECIFICATION SECTION 01 23 00 - BID ALTERNATES

1. **Add:**

   A. ALTERNATE NO. 13: State the cost to provide Daikin Variable Refrigerant Flow (VRF) equipment and associated controls as specified, if not already included in your base bid.

CONTRACTOR'S BID FOR PUBLIC WORKS FORM NO. 96

Format (Revised 2013)
(Amended for CPCSC)

Colonel John Wheeler Middle School Addition, Renovation and Related Work

Crown Point Community School Corporation
Crown Point, 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, ***Colonel John Wheeler Middle School Addition, Renovation and Related Work***, in accordance with Plans and Specifications prepared by ***Gibraltar Design, 9102 N. Meridian St., Suite 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

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 – Addition of Parking Lot "A"
Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 2 – Schneider Electric Controls by Precision Controls

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 3 – Boilers Manufactured by Camus

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 4 – Chiller Manufactured by Trane

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 5 – Air Handling Units Manufactured by Trane

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 6 – Chemical Water Treatment by Global Water Technology, Inc.

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 7 – Fire Alarm System by Simplex/JCI

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 8 – New Pole Bases, Poles and Lighting Fixture Heads

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 9 – Replacement of Existing Hot Water Heaters in Existing Middle School

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 10 – Rigid Heavy Wall or IMC Galvanized Steel Conduit

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 11 – Replacement of All Sealant and Backer Rod

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 12 – Addition of Parking Lot "B"

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 13 – Daikin Variable Refrigerant Flow Equipment

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

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?

_____

_____

_____

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

_____

_____

_____

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.)

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.

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.

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.

_____

_____

_____

_____

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.

_____

_____

_____

_____

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

ADDENDUM THREE

Addendum Three (AD.03) to the drawings and specifications prepared by Gibraltar Design for **Colonel John Wheeler Middle School – Addition, Renovations and Related Work** for Crown Point Community School Corporation, Crown Point, 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, Addendum Three, and include the appropriate content of same within their bid proposal.

SPECIFICATIONS

1. **Specification Section 00 01 00 Table of Contents**
   A. Add Specification Section 23 73 00 Interior Central Station AHU, to the Table of Contents.
2. **Specification Section 23 73 00 Interior Central Station AHU**
   A. Add Specification Section 23 73 00, Interior Central Station AHU, included in this Addendum, to the Project Manual.

DRAWINGS

3. **Sheet C-4.0**
   A. The construction of manhole MH #4, it's connection to MH#5, and the appropriate stub for future connection are to be included in the base bid.
4. **Sheet S-001**
   A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
      1. Ground snow load changed to 30 psf (Note this has not changed the design of this project.)
5. **Sheet S-203**
   A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
      1. Sections added for clarity
      2. Steel Lintel over opening has been added
      3. Steel framing H.A.S. number changed near interior 8" CMU walls (beam depths have not changed)
      4. Short beam labels added
6. **Sheet S-204**
   A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
      1. Sections added for clarity
      2. Steel Lintels over openings have been added

7. Sheet S-205

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

1. Sections added for clarity
2. Steel Lintel over opening has been added

8. Sheet S-206

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

1. Sections and dimensions added for clarity

9. Sheet S-412

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

1. Revisions made to sections

10. Sheet S-413

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

1. Sections have been added to this sheet
2. Revisions made to other sections

11. Sheet A-112

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

1. Add Plan Note 45 to read "45. GROUND FACE CMU TO 10FT AFF, AND STANDARD CMU ABOVE."
2. Clarification of wall types
3. Removed a storefront window in Corridor G-106 (Exterior Elevation was shown correctly)

12. Sheet A-113

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

1. Clarification dimensions and wall types.

13. Sheets A-131 and A-132

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

1. Clarification of plan at exterior storefront.

14. Sheet A-211

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

1. Clarification dimensions and notes.
2. Removed ladder schedule. Refer to elevations and sections for locations and heights.

15. Sheet A-212

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

1. Modify all instances of "CAST STONE" to read "CUT STONE"

16. Sheet A-419 and A-420

A. At details 1, 2, and 5 on sheet A-419, and detail 3/A-420, install SPRAY ACOUSTICAL INSULATION under the entire floor deck of Mechanical Room A-211.

17. Sheet A-433 (inadvertently omitted from AD02, attached herein)

A. Refer to revised, full-size drawing, included in this Addendum, for detail numbers and section indications.

18. Sheet A-601

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

1. Clarification of door size and type and glazing type.
2. Note that all exterior storefront is 6" in depth.

19. Sheet A-610

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

1. Clarification of glazing type at certain storefront elevations.

20. Sheet A-620

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

1. Modify all instances of "CAST STONE" to read "CUT STONE".
2. Clarification of glazing type at Aluminum Window Elevations

21. Sheet A-814

A. Refer to revised, full-size drawing, included in this Addendum, replotted so plan is true 1/8" scale at 30x42.

22. Sheet MD108

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

1. Revised existing supply air ductwork.

23. Sheet MV103

A. Refer to revised, full-size drawing, included in this Addendum, for additional information

24. Sheet MV104

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

1. See revised sheet for revised labels on new ductwork.

25. Sheet MV108

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

1. Revised existing and new supply air ductwork and VAV boxes.

26. Sheet MV109

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

1. See revised sheet for additional information.

27. Sheet MV114

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

1. See revised sheet for revised ductwork sizes.

28. Sheet MV120

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

1. Revised air handler section.
2. Locations of automatic dampers and air flow measuring stations.
3. Additional labeling of new ductwork.

29. Sheet M300

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

1. See revised sheet for revised piping layout.

30. Sheet M501

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

1. See revised sheet for revised mechanical equipment schedule.
2. See revised sheet for revised natural gas connection schedule.
3. See revised AH-1 VAV terminal schedule.

31. Sheet P-122

A. Add sink S-2 and TW-1 to Room ITE H-104. Extend ½" HW, ½" CW and 1-1/2" vent from sink to existing piping mains in corridor complete as required.

32. Sheet P-601

A. Revise sink S-3 fixture description in plumbing fixture and equipment schedule to be Single Bowl Undermount sink 21.5"x18.5"x5-3/8".

B. Revise sink S-3 model number in plumbing fixture and equipment schedule to be Elkay ELUHAD191655PD.

C. Revise sink S-1 Fixture Valve/Faucet Type to be Chicago Faucet model 50-317XKABCP.

D. Revise sink S-2 Fixture Valve/Faucet Type to be Chicago Faucet model LKD2442BHC.

E. Revise sink S-3 Fixture Valve/Faucet Type to be Chicago Faucet model 50-317XKABCP.

F. Remove sinks S-4 and S-5 from plumbing fixture and equipment schedule.

33. Sheet E-001

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

1. Added symbols.

34. Sheet ED105

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

1. Added demolition lighting fixtures.

35. Sheet EL101

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

1. Revised fixture tags.

36. Sheet EL105

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

1. Added sheet note
2. Added new lighting fixtures

37. Sheet EL108

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

1. Added occupancy sensor
2. Added sheet note
3. Added sheet notes to drawings

38. Sheet EP101

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

1. Added USB receptacles

39. Sheet EP104

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

1. Added general notes

40. Sheet EP105

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

1. Added general notes

41. Sheet EP107

A. Refer to revised, full-size drawing, included in this Addendum, for added general notes.

42. Sheet EP108

A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
   1. Added general notes

43. Sheet EP112

A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
   1. Added USB receptacles

44. Sheet EP113

A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
   1. Added sheet note
   2. Added exhaust fan connection

45. Sheet EP114

A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
   1. Added general notes

46. Sheet EP120

A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
   1. Revised circuitry for existing coolers and TC panels to be circuited to new generator panel.

47. Sheet E-501

A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
   1. Revised panel 1FLX feeder and transformer.

48. Sheet E-502

A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
   1. Revised lighting fixture specifications.

49. Sheet E-503

A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
   1. Revised lighting fixture specifications.
   2. Revised generator diagram

50. Sheet E-504

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

1. Revised fire alarm riser diagram

51. Sheet E-601

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

1. Revised 1AL1, 1GL1, P6 and P8 panel schedules

52. Sheet E-602

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

1. Revised 1FLX and 1HLX panel schedules
2. Revised mechanical equipment connection schedule.

53. Sheet TD-100

A. Refer to revised full-size drawing included in this addendum for the following revisions:

1. Added plan notes regarding the existing Auditeria Sound System.

54. Sheet T-100

A. Refer to revised full-size drawing included in this addendum for the following revisions:

1. Added Telecommunications outlets for wireless access points and security cameras.

55. Sheet T-110

A. Refer to revised full-size drawing included in this addendum for the following revisions:

1. Added Telecommunications outlets for wireless access points and security cameras.

Pages 1 through 7, inclusive, Specification Section 23 73 00, and fifty (50) Full-Size Drawings, constitute the total makeup of **Addendum Three**.

GIBRALTAR DESIGN

Joseph P. Briggs

Y:\21-106 Crown Point CSC - Wheeler Middle School Addition and Renovations\Specs\Addendum 2\AD02.doc

DIVISION 23 - MECHANICAL
Section 23 73 00 - Interior Central Station Air Handling Units

1.00 PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Conform to applicable provisions of Section 23 05 00 and 23 88 00.

1.02 DESCRIPTION

A. This section of the work includes the furnishing and installing of interior central station air handling units of the size, capacity, and configuration where and as denoted on the drawings.

1.03 QUALITY ASSURANCE

A. Unit shall be tested, rated, and certified as complete unit in accordance with ARI for capacities and sound ratings.

B. Equipment or components of this specification section shall meet or exceed the requirements and quality of the items herein specified or as denoted on the drawings.

C. Units shall be UL, CSA or ETL listed.

1.04 PRODUCT HANDLING

A. Protection: Use means necessary to protect units before, during, and after installation.

B. Replacement and Repair: Scratched, dented, and otherwise damaged units shall be repaired or replaced as directed by the Architect/Engineer.

1.05 SHOP DRAWING SUBMITTALS:

A. Air Handling Unit Product Data

B. Variable Frequency Drive

C. Manufacturer's Start-up Report

2.00 PART 2 - MATERIALS

2.01 MANUFACTURERS

A. Unit shall be manufactured by Trane, Carrier, Daikin or Miller Picking/Pace will be acceptable if equal (including dimensional arrangement).

2.02 CENTRAL STATION AIR HANDLING UNITS

A. Total cooling, heating, and cfm capacity of each unit shall be as scheduled on the drawings. Units shall be assembled for horizontal draw-thru applications, as indicated on the drawings, and shall be arranged with the type of sections and intake/discharge conditions, as indicated.

B. Ship units in one piece. Split units only where necessary for shipping and installation. Manufacturer shall provide detailed, step-by-step instructions for reassembly.

C. Units shall be of quality construction, braced and reinforced as required for smooth operation. Hinged doors shall provide access to internal parts. An insulated drain pan shall be provided under the complete fan and coil section of units.

D. Units shall be supplied with a longitudinal, 10-gauge, galvanized steel structural perimeter base rail. Units shall be shipped in the fewest sections to meet project requirements. Units less than 11' wide shall be capable of being suspended directly without an additional structural platform. When unit is shipped in sections, each section shall have mating flanges with full perimeter gasketing and bolted assembly.

E. Unit Cabinet:

1. Unit housing shall be constructed of minimum 2" thick double wall panels meeting thermal, acoustical, and structural requirements specified.

2. All unit panels shall be 2-inch solid, double-wall construction to facilitate cleaning of unit interior. Unit panels shall be provided with a mid-span, no through metal, internal thermal break. Casing thermal performance shall be such that condensation shall not form on the casing exterior.

3. All exterior and interior AHU panels will be made of galvanized steel.

4. Casing shall have baked enamel finish passing 500-hour salt spray test (ASTM B-117) for pre-painted steel and 125-hour marine level 1 prohesion test (ASTM G-85.A5) for pre-painted steel.

5. Panel insulation shall provide a minimum thermal resistance (R) value of 13 $ft^2 \cdot h \cdot {}^oF/Btu$ throughout the entire unit. Insulation shall completely fill the panel cavities in all directions so that no voids exist and settling of insulation is prevented. Panel insulation shall comply with NFPA 90A.

6. The casing shall be able to withstand up to 8 inches w.g. positive or negative static pressure. The casing shall not exceed 0.0042 inch deflection per inch of panel span at 1.5 times design static pressure up to a maximum of +8 inches w.g. in all positive pressure sections and -8 inches w.g. in all negative pressure sections.

7. The unit floor shall be of sufficient strength to support a 300-lb. load during maintenance activities and shall deflect no more than 0.0042 inch per inch of panel span.

8. Casing leakage rate shall be less than 1% at 8 in. wg of nominal unit airflow or 50 cfm, whichever is greater.

9. Access doors shall be of double wall construction and be installed on lift-off type stainless steel hinges for outward opening application. Multiple handles shall be provided to assure positive closure. Handles shall be epoxy coated or stainless steel. Internal latches shall be stainless steel. Doors shall open outward for negative pressure and inward for positive pressure applications. Operating pressure of unit shall always ensure that the door compresses the gasket seal. Doors shall always open against pressure for maximum safety considerations.

F. Unit shall be equipped with Variable Frequency Drive or ECM Motors to provide fan motor speed modulation. Fans shall be of the size and type scheduled to deliver the required airflow. Fans shall be direct-drive, single-width, single inlet plenum fans. Fan blades shall be backward-inclined airfoil. Fans shall be statically and dynamically balanced and tested. Fan shafts shall not pass through their first critical speed as unit comes up to rated rpm. Fan bearings are grease lubricated ball bearings selected for 200,000 hours average life with extended grease line. Fans shall be provided with the required drives.

1. Fans and motors shall be mounted on a structural steel base assembly which shall be isolated from the outer casing with factory installed 2" deflection spring isolators and vibration absorbent fan discharge seal.

2. Unit shall be equipped with Variable Frequency Drives and controllers to provide fan motor speed modulation. The VFD shall be provided with a metal enclosure and shall be factory-mounted, wired and -tested. The VFD shall control motor based on input from the FMS.

G. Coils shall be removable from the unit without dismantling the entire units. Coils shall have continuous plate-fin surface, with seamless copper tubes expanded into aluminum fin collars for secure bonding. Casings shall be galvanized steel. Each coil shall be leak tested before shipment.

1. Chilled and Hot Water Coils:

a. Water coils shall be of the size and type required for scheduled capacity and service. Coils shall be suitable for operation at working pressures up to 200 psig. Each coil shall be leak tested at 300 psig air pressure under water.

b. Water coils shall have a maximum face velocity of 550 fpm without extensions to the air handling unit.

c. The maximum allowable air pressure drop across the coils to be as follows:

1) Chilled Water Coils: 1.00" WC

2) Hot Water Heating Coils: 0.40" WC

d. The Maximum allowable water pressure drop through coils to be as follows:

1) Chilled and Hot Water coils: 12 FT HD

H. Fan motors to be of the horsepower, rpm, and voltage as required for scheduled capacity. Motors for all systems shall be energy efficient type suitable for variable speed application. Unit manufacturer shall provide drives and controls for variable speed operation. Motors shall be mounted on adjustable slide rails.

I. Provide air handling units with medium capacity filter sections capable of holding 2" pre-filter and 4" final filter as indicated on drawings. Filter sections shall be provided with filters, as indicated in Section 23 88 00, and shall contain a large, hinged access door.

J. Provide drain pans as follows:

1. All cooling coil sections shall be provided with an insulated, double-wall, stainless steel drain pan.

2. Where 2 or more coils are stacked in a coil bank, intermediate drain pans shall be provided and the condensate shall be piped to the bottom drain pan. The bottom coil shall not serve as a drain path for the upper coil.

3. Provide drain pan located below intake or discharge sections that connect to roof mounted hoods.

4. To address indoor air quality (IAQ), the drain pan shall be designed in accordance with ASHRAE 62.1 being of sufficient size to collect all condensation produced from the coil and sloped in two planes promoting positive drainage to eliminate stagnant water conditions. The outlet shall be located at the lowest point of the pan and shall be sufficient diameter to preclude drain pan overflow under any normally expected operating condition.

5. All drain pan threaded connections shall be visible external to the unit. Drain connections shall be of the same material as the primary drain pan and shall extend a minimum of 2 1/2 inches beyond the base to ensure adequate room for field piping of condensate drain traps.

6. Coil support members inside the drain pan shall be of the same material as the drain pan and coil casing.

K. UNIT CONTROLS:

1. Unit is to be controlled by Facility Monitoring System (FMS).

3.00 PART 3 - EXECUTION

3.01 INSTALLATION:

A. Equipment Installation:

1. Provide permanent placard attached to unit identifying unit number.

2. Install filters.

3. Do not operate unit for any purpose, temporary or permanent, until ductwork is clean, filters are in place, bearings lubricated and fan has been test run under observation.

4. Provide additional belts, pullies, drives, sheeves, etc. to properly air balance air handling units.

B. Ductwork Installation:

1. Connect supply and return air ductwork to equipment with flexible connections.

2. Furnish and install supports, vibration isolators, duct extensions, and other such related items as required for a complete and operational system.

C. Piping Installation:

1. Connect supply and return chilled and hot water piping to equipment.

2. Install piping as required for a complete and operational system. Provide accessories as required based on actual field pipe routing and system requirements.

3. Piping shall be brought to equipment connections in such a manner so as to prevent the possibility of loads or stresses being applied to the connections.

4. Install condensate drain piping from unit connection to roof and provide properly sized trap as per manufacturer's recommendations. Size of drain line to be the size of the connection to the unit.

D. Temperature Control Installation:

1. Unit is to be controlled by FMS. Coordinate installation of controls, thermostats, sensors, tubes, etc. with FMS contractor.

2. Control wiring is to be in accordance with local, federal, state, and national electric wiring codes.

E. Manufacturer Start-up:

1. Arrange and pay for tests and start-up fee required for installation of equipment.

2. Manufacturer shall work with and assist in the initial equipment controls set up for a complete and operational system.

3. Equipment manufacturer shall provide a factory trained service technician to completely check-out and start-up equipment, associated controls, and accessories. Manufacturer's representative shall instruct the maintenance personnel in the care and operation of the equipment.

4. Submit manufacturer's start-up report for review. As a minimum, start up report shall contain the following information:

    a. Electrical connections and terminals have been connected and are tight.

    b. Piping has been checked for leaks.

    c. Fan sheaves are aligned and belts are properly tensioned.

    d. Dampers open and sequences are functioning properly.

    e. Temperature control points are communicating with FMS system.

    f. Maintenance personnel have been instructed in the care and operation of the equipment.

    g. Equipment shuts down upon fire alarm activation.

    h. Remote start/stop and reset are functional.

    i. Heating and cooling capacity control functions properly.

    j. Fan controller and VFD's are set for proper CFM.

5. List all field set point values (i.e., system pressure set-points, occupancy schedules, supply air temperature set-point, economizer temperature set-point, etc.).

END OF SECTION

EXISTING CONSTRUCTION

1. The contractor shall field verify the dimensions, elevations, etc. necessary for the proper construction and alignment of the new portions of the work to the existing work. The Contractor shall make all necessary measurements for fabrication and erection of the structural members. Any discrepancy shall be immediately brought to the attention of the Structural Engineer of Record.
2. Before proceeding with any work within the existing facility, the Contractor shall familiarize himself with existing structural and other conditions. Any shoring shown or noted on the Plans is a partial and schematic representation of that required. It shall be the Contractor's responsibility to provide all necessary bracing, shoring, and other safeguards to maintain all parts of the work in a safe condition during the progress of demolition and construction, and to protect from damage those portions of the existing work which are to remain. Shoring shall remain in place until the structural work is complete, has been inspected by the Testing Agency, and is certified to be in substantial compliance with the Contract Documents.
3. When required by the Specifications or by Plan Note, the Contractor shall submit for the Structural Engineer of Record's review, a "Proposed Shoring Plan," including, but not limited to: plans, sections, details, notes, description of proposed sequence of work, and calculations prepared by or under the supervision of a Specialty Structural Engineer (SSE). The SSE shall be registered in the State where the project is located.
4. Welding to and within an existing facility presents potential hazards including:
   A. Fire Hazard - Due to the existing construction and building contents.
   B. Structural Liquefaction - Due to welding across the full section of the structural members.

   Recommendations to prevent these hazards include:
   A. Fire Hazard - Protect existing combustibles prior to welding. Keep a separate watchman and several fire extinguishers on hand.
   B. Structural Liquefaction - weld in small increments. Allow welds to harden before continuing to the next increment.
   C. Do not leave the site until satisfied that no fire hazard exists.
   D. Preference should be given to the use of beam clamps, mechanical fasteners, or bolted connections in lieu of welding within existing facilities, whenever possible. Do not field-drill existing structural members without the written permission of the Structural Engineer of Record.

COORDINATION WITH OTHER TRADES

1. The Contractor shall coordinate and check all dimensions relating to Architectural finishes, mechanical equipment and openings, elevator shafts and overrides, etc. and notify the Architect/Engineer of any discrepancies before proceeding with any work in the area under question.
2. The Structural Drawings shall be used in conjunction with the Drawings of all other disciplines and the Specifications. The Contractor shall verify the requirements of other trades as to sleeves, chases, hangers, inserts, anchors, holes, and other items to be placed or set in the Structural Work.
3. There shall be no vertical or horizontal sleeves set, or holes cut or drilled in any beam or column unless it is shown on the Structural Drawings or approved in writing by the Structural Engineer of Record.
4. Mechanical and electrical openings through supported slabs and walls, 8" diameter or larger, not shown on the Structural Drawings must be approved by the Structural Engineer of Record (SER). Openings less than 8" in diameter shall have at least 1'-0" clear between openings, unless approved in writing by the SER.
5. Verify locations and dimensions of mechanical and electrical openings through supported slabs and walls shown on the Structural Drawings with the Mechanical and Electrical Contractors.
6. Do not install conduit in supported slabs, slabs on grade, or concrete walls unless explicitly shown or noted on the Structural Drawings.
7. Do not suspend any items, such as ductwork, mechanical or electrical fixtures, ceilings, etc. from steel roof deck or wood roof sheathing.
8. The Mechanical Contractor shall verify that mechanical units supported by the steel framing are capable of spanning the distance between the supporting members indicated on the Structural Drawings. The Mechanical Contractor shall supply additional support framing as required.
9. If drawings and specifications are in conflict, the most stringent restrictions and requirements shall govern.

GENERAL NOTES

1. The Contractor shall be responsible for complying with all safety precautions and regulations during the work. The Structural Engineer of Record will not advise on, nor issue direction as to safety precautions and programs.
2. The Structural Drawings herein represent the finished structure. The Contractor shall provide all temporary guying and bracing required to erect and hold the structure in proper alignment until all Structural Work and connections have been completed. The investigation, design, safety, adequacy and inspection of erection bracing, shoring, temporary supports, etc. is the sole responsibility of the Contractor.
3. The Structural Engineer of Record (SER) shall not be responsible for the methods, techniques and sequences are not specifically shown, similar details of construction shall be used, subject to approval of the SER.
4. Drawings indicate general and typical details of construction. Where conditions are not specifically shown, similar details of construction shall be used, subject to approval of the Structural Engineer of Record.
5. All structural systems which are to be composed of components to be field erected shall be supervised by the Supplier during manufacturing, delivery, handling, storage, and erection in accordance with the Supplier's instructions and requirements.
6. Loading applied to the structure during the process of construction shall not exceed the safe load-carrying capacity of the structural members. The live loading used in the design of this structure are indicated in the "Design Criteria Notes." Do not apply any construction loads until structural framing is properly connected together and until all temporary bracing is in place.
7. All ASTM and other referenced standards and codes are for the latest editions of these publications, unless otherwise noted.
8. Shop drawings and other items shall be submitted to the Structural Engineer of Record (SER) for review prior to fabrication. All Shop Drawings shall be reviewed by the Contractor before submittal. The SER's review is to be for conformance with the design concept and general compliance with the relevant Contract Documents. The SER's review does not relieve the Contractor of the sole responsibility to review, check, and coordinate the Shop Drawings prior to submission. The Contractor remains solely responsible for errors and omissions associated with the preparation of Shop Drawings as they pertain to member sizes, details, dimensions, etc.
9. Submit Shop Drawings in the form of blueline/blackline prints (min. 2 sets/ max. 5 sets) and one reproducible blackline or sepia copy. In no case shall reproductions of the Contract Documents be used as shop drawings. As a minimum, submit the following items for review.
   A. Concrete Mix Design(s).
   B. Reinforcing Steel Shop Drawings.
   C. Structural Steel Shop Drawings.
   D. Steel Joist Shop Drawings.
   E. Steel Deck Shop Drawings.
   F. Cold-Formed Steel Framing Systems.
10. Resubmitted Shop Drawings: Resubmitted shop drawings are reviewed only for responses to comments made in the previous submittal.
11. When calculations are included in the submittals for components of work designed and certified by a Specialty Structural Engineer (SSE), the review by the Structural Engineer of Record (SER) shall be for conformance with the relevant Contract Documents. The SER's review does not relieve the SSE from responsibility for the design of the system(s) and the coordination with the elements of the structure under the certification of the SER, or other SSE's. The SER's review does not constitute a warranty of the accuracy or completeness of the SSE's design.
12. Contractors shall visit the site prior to bid to ascertain conditions which may adversely affect the work or cost thereof.
13. No structural member may be cut, notched, or otherwise reduced in strength without written direction from the Structural Engineer of Record.
14. When modifications are proposed to structural elements under the design and certification of a Specialty Structural Engineer (SSE), written authorization by the SSE must be obtained and submitted to the Structural Engineer of Record for review, prior to performing the proposed modification.

SPECIALTY STRUCTURAL ENGINEERING (SSE)

1. A Specialty Structural Engineer is defined as a Professional Engineer licensed in the State of Indiana, not the Structural Engineer of Record, who performs Structural Engineering functions necessary for the structure to be completed and who has shown experience and/or training in the specific specialty.
2. It is the Specialty Structural Engineer's responsibility to review the Construction Drawings and Specifications to determine the appropriate scope of engineering.
3. It is the intent of the Drawings and Specifications to provide sufficient information for the Specialty Structural Engineer (SSE) to perform his design and analysis. If the SSE determines there are details, features, or unanticipated project limits which conflict with the engineering requirements as described in the project documents, the SSE shall in a timely manner, contact the Structural Engineer of Record for resolution of conflicts.
4. The Specialty Structural Engineer (SSE) shall forward documents to the Structural Engineer of Record for review. Such documents shall bear the stamp of the SSE and include:
   A) Drawings introducing engineering input, such as defining the configuration or structural capacity of structural components and/or their assembly into structural systems.
   B) Calculations.
   C) Computer printouts which are an acceptable substitute for manual calculations provided they are accompanied by sufficient design assumptions and identified input and output information to permit their proper evaluation. Such information shall bear the stamp of the Specialty Engineer as an indication that said engineer has accepted responsibility for the results.
5. Contractors are referred to the specific technical specification sections and the structural drawings for those elements requiring Specialty Structural Engineering. Examples of components requiring Specialty Structural Engineering include, but are not limited to the following:
   A) Structural Steel Connections.
   B) Steel Joist Systems.
   C) Steel Stairs.
   D) Acoustical Steel Decks.
   E) Cold-Formed Steel Framing.
6. When modifications are proposed to elements under the design and certification of the Specialty Structural Engineer (SSE), written authorization by the SSE must be obtained and submitted to the Engineer of Record for review, prior to performing the proposed modification.

DESIGN CRITERIA

1. DESIGN STANDARDS: The intended design standards and/or criteria are as follows:

General	The 2014 Indiana Building Code (2012 International Building Code (IBC) with Indiana Amendments)
Concrete	ACI 318
Masonry	ACI 530
Steel	AISC Manual, Allowable Stress Design (ASD)
Steel Joists	Steel Joist Institute
Steel Deck	Steel Deck Institute
Cold-Formed Metal	AISI-ASD

   All referenced standards and codes, as well as ASTM numbers, are for the editions of these publications referenced in the Building Code listed above, unless otherwise noted.
2. DEAD LOADS: Gravity Dead Loads used in the design of the structure are as computed for the materials of construction incorporated into the building, including but not limited to walls, floors, ceilings, stairways, fixed partitions, finishes, cladding and other similar architectural and structural items, as well as mechanical, electrical and plumbing equipment and fixtures, and material handling and fixed service equipment, including the weight of cranes.
3. LIVE LOADS: Gravity live loads used in the design of the structure meet, or exceed the following table (IBC 2012, 1607.1):

OCCUPANCY OR USE	UNIFORM (PSF)	CONCENTRATED (LB) [Note #1]
A. Corridors		
1. First Floor	100	---
2. Other Floors	Same as Occupancy Served	---
B. Schools		
1. Classrooms	40	
2. First Floor Corridors	100	
4. Corridors Above 1st Floor	80	

   Note #1: Unless otherwise noted, the indicated concentrated load has been assumed to be uniformly distributed over an area of 30" x 30".
5. PARTITION ALLOWANCE: a uniform partition allowance of 15 PSF has been used to account for the load of all floors where partition locations are subject to change, unless the specified live load exceeds 80 PSF.
6. COLLATERAL LOAD: Unless otherwise noted, a minimum uniform collateral load of 10 PSF has been used to account for ductwork, ceilings, sprinklers, lighting, etc. The collateral load is in addition to the weight of mechanical units, larger piping (greater than 4" diameter) and suspended fixtures or equipment that have been specifically accounted for in the design.
7. COLLATERAL LOAD ABOVE CORRIDORS & MECHANICAL ROOMS: A minimum uniform collateral load of 20 PSF has been used to account for large ductwork, sprinkler mains, concentrations of piping, and electrical distribution above corridors and mechanical rooms. The collateral load is in addition to the weight of mechanical units and larger piping (greater than 4" diameter) and suspended fixtures or equipment that have been specifically accounted for in the design.
8. CONCENTRATED LOADS:
   All single panel points of the lower chord of exposed roof trusses or any point along the primary structural members supporting roofs over manufacturing, commercial storage and warehousing, and commercial garage floors shall be capable of carrying safely a suspended concentrated load of not less than 2000 LBS in addition to dead load.
   All single panel points of the lower chord of exposed roof trusses or any point along the primary structural members supporting roofs over all other occupancies shall be capable of carrying safely a suspended concentrated load of not less than 1000 LBS in addition to dead load, unless noted.
9. ROOF LIVE/SNOW LOADS: Gravity Live Loads used in the design of the roof structure meet or exceed the following table:

A. Snow Load	
Ground Snow Load, Pg	30 PSF
Flat Roof Snow Load, Pf	22 PSF
Exposure Factor, Ce	1.0
Risk Category (IBC Table 1604.5)	III
Snow Importance Factor, Is	1.10
Thermal Factor, Ct	1.0
B. Minimum Roof Live Load	25 PSF
C. Overhang Eaves & Projections	60 PSF

   1. Sloped roof snow loads calculated in accordance with Section 7.4, ASCE 7.
   2. Unbalanced roof snow loads calculated in accordance with Section 7.6, ASCE 7. Specialty Structural Engineers must consider unbalanced snow loads in the design of pre-engineered trusses, frames, skylights, curtain walls, cold-formed metal framing, canopies, etc.
   3. Drift loads calculated in accordance with Section 7.7, ASCE 7.
   4. Roofs used for roof gardens or assembly purposes have been designed for a minimum live load of 100 PSF.

   AD-3
10. LATERAL LOADS: Lateral loads were computed using the following criteria:

A. Wind Load	
Ultimate Design Wind Speed, Vult	120 MPH
Nominal Design Wind Speed, Vasd	89 MPH
Wind Exposure Category	C
Risk Category (IBC Table 1604.5)	III
Internal Pressure Coefficient, GCpi	± 0.18
11. Seismic Load	
Site Classification	D
Risk Category (IBC Table 1604.5)	III
Seismic Importance Factor, Ie	1.25
Mapped Spectral Response Acceleration, Ss	0.129g
Mapped Spectral Response Acceleration, S1	0.069g
Design Spectral Response Acceleration, Sds	0.138g
Design Spectral Response Acceleration, Sd1	0.106g
Seismic Design Category, SDC	B
Response Modification Coefficient, R	3

12. SAFETY FACTORS: This structure has been designed with 'Safety Factors' in accordance with accepted principles of structural engineering. The fundamental nature of the 'Safety Factor' is to compensate for uncertainties in the design, fabrication, and erection of structural building components. It is intended that ' Safety Factors' be used such that the load-carrying capacity of the structure does not fall below the design load and that the building will perform under design load without distress. While the use of 'Safety Factors' implies some excess capacity beyond design load, such excess capacity cannot be adequately predicted and SHALL NOT BE RELIED UPON.

FOUNDATIONS

1. Proofroll slab on grade areas with a medium-weight roller or other suitable equipment to check for pockets of soft material hidden beneath a thin crust of better soil. Any unsuitable materials thus exposed should be removed and replaced with compacted, engineered fill as outlined in the specifications. Proofrolling operations shall be monitored by the Geotechnical Testing Agency.
2. All engineered fill beneath slabs and over footings should be compacted to a dry density of at least 93% of the Modified Proctor maximum dry density (ASTM D-1557). All fill which shall be stressed by foundation loads shall be approved granular materials compacted to a dry density of at least 95% (ASTM D-1557). Coordinate all fill and compaction operations with the Specifications and the Subsurface Investigation.
3. Compaction shall be accomplished by placing fill in approximate 8" lifts and mechanically compacting each lift to at least the specified minimum dry density. For large areas of fill, field density tests shall be performed for each 3,000 square feet of building area or for each lift as necessary to insure adequate compaction is being achieved.
4. Column footings and wall footings to bear on firm natural soils or well-compacted engineered fill with allowable bearing pressures of 3,000 PSF and 2,400 PSF for column and wall footings respectively, as outlined in the Subsurface Investigation Report.
   It is essential that the foundations be inspected to insure that all loose, soft, or otherwise undesirable material (such as organics, existing uncontrolled fill, etc.) is removed and that the foundations will bear on satisfactory material. The Geotechnical Testing Agency shall inspect the subgrade and perform any necessary tests to insure that the actual bearing capacities meet or exceed the design capacities. The Geotechnical Testing Agency shall verify the bearing capacity at each spread column footing and every 10 feet on center for strip footings prior to placement of concrete.
5. Place footings the same day the excavation is performed. If this is not possible, the footings shall be adequately protected against any detrimental change in condition, such as from disturbance, rain, or freezing.
6. It is the responsibility of the Contractor and each Sub-Contractor to verify the location of all utilities and services shown, or not shown; and establish safe working conditions before commencing work.
7. The Contractor shall inspect the entire building and field verify all dimensions prior to excavation.
8. For information regarding subsurface conditions, refer to the Subsurface Investigation & Foundation Recommendation Report prepared by Professional Service Industries, Inc., PSI Project No. 00474977, dated January 20, 2022.

POST-INSTALLED DOWELS & ANCHOR BOLTS/RODS

1. All reinforcing steel and threaded rod anchors to be installed in a 2-part chemical anchoring system shall be treated as follows:
   A. Drill holes larger than bar or rod to be embedded. Coordinate hole diameter with Manufacturer's recommendations.
   B. Holes must be cleaned and prepared in accordance with Manufacturer's recommendations.
   C. When reinforcing steel is encountered during drilling for installation of anchors; stop drilling, use a sensor to locate the reinforcing in the surrounding area and install anchor(s) as close as possible to the original location. Contact the Structural Engineer of Record (SER) for direction when the revised location is more than 2" from the original location, or when the original function of the anchorage is significantly altered. When in doubt, contact the SER for direction.
   D. Drill the hole a minimum of 15 bar diameters or 6" into the concrete.
   E. Use a 2-part adhesive anchoring system, Hilti HIT-200, or approved equal.
   F. For anchorage into hollow substrate, use Hilti HY-270, or approved equal.
   G. Reinforcing steel dowels shall be ASTM A615, Grade 60, unless noted.
   H. Anchor rods shall be Hilti HAS-V-36, unless noted. Provide finish as noted on the Drawings. If not noted, provide hot dip galvanized finish for interior applications. Provide stainless steel finish for all exterior applications, unless noted.
2. When column anchor bolts have been omitted, or damaged by construction operations, the Contractor must obtain the written approval of the Structural Engineer of Record prior to repair or replacement.
   A. As a precaution, the affected column must be guyed and braced after repair for the balance of the erection period.
   B. As an alternate to guying and bracing, the Contractor may at his option, employ a testing agency to perform a tensile pull test to confirm the strength for the repaired or replaced anchor bolt. The tensile proof load must exceed 1.33 x the design load of the original anchor without causing distress of the anchor bolt or the surrounding concrete. Reference the following table for the minimum proof loads:

3/4" diameter:	12.8 kips
7/8" diameter:	17.4 kips
1" diameter:	22.7 kips
1 1/8" diameter:	28.8 kips
1 1/4" diameter:	35.6 kips

      Note: Values listed above are for ASTM F-1554, Grade 36 material. When higher grade or strength materials are specified, refer to the AISC Steel Design Guide 1, Table 3.1 for minimum allowable loads to be multiplied by 1.33.
   C. When affected anchor bolts are part of a fixed moment resisting column base, such as those in moment-resisting space frames, canopies, or fixed-base installations, the repaired anchor bolts must be proof-loaded, or the affected column footing and/or pier replaced in its entirety.
   D. When affected anchor bolts are part of a braced frame the affected column footing and/or pier must be replaced in its entirety.
   E. Prior to erection, the controlling Contractor must provide written notification to the Steel Erector if there has been a repair, replacement or modification of the anchor bolts for that column.

STRUCTURAL STEEL NOTES

1. Structural steel construction shall conform to the American Institute of Steel Construction "Specification for Structural Steel Buildings".
2. All structural wide flange members shall be ASTM A992, Fy=50 ksi
3. All plates, channels, bars, angles, and rods shall be ASTM A36, unless noted.
4. All rectangular structural tube members shall be ASTM A500, Grade C, Fy = 50 ksi unless noted.
5. All round structural tube members shall be ASTM A500, Grade C, Fy = 46 ksi unless noted.
6. All structural pipe members shall be ASTM A53,Grade B, Fy=35 ksi unless noted.
7. Details for design, fabrication and erection of all structural steel shall be in accordance with the latest AISC Standards, unless otherwise noted or specified.
8. Provide temporary erection guying and bracing as required.
9. Unless otherwise shown or noted on the Drawings, provide 8" minimum bearing each end for all loose lintels and beams.
10. For loose lintels, masonry shelf angles and other such items generally not shown on the Structural Drawings, refer to the Architectural Drawings. See general notes on lintels this sheet for sizes, reinforcing, etc.
11. Steel columns below grade shall be encased in a minimum of 4" concrete or painted with 2 coats of asphaltum paint, unless otherwise shown.
12. Fabricate simple span beams not specifically noted to receive camber so that after erection, any minor camber due to rolling or shop assembly be upward.
13. Refer to the Division 5 Structural Steel Specification of the Project Manual for structural steel surface preparations and prime painting requirements.
14. The Erector shall shim between parallel roof beams and joists with differential mill and induced cambers for level deck bearing.
15. Provide cap plates/end plates to close off exposed, open ends of all tubular members, unless noted. Seal weld with partial penetration square groove welds for watertight condition.

STEEL DECK NOTES

1. All steel deck material, fabrication and installation shall conform to the Steel Deck Institute "SDI SHORT FORM SPECIFICATIONS" and "SDI CODE OF STANDARD PRACTICE," current edition, unless noted.
2. Provide members for deck support at all deck span changes. Provide L3x3x3/16 deck support at all columns where required.
3. All deck shall be provided in a minimum of 3-span lengths where possible.
4. All welding of steel deck shall be in conformance with AWS Specification D1.3. Provide welding washers for all floor decks less than 22 gauge in thickness.
5. Mechanical fasteners may be used in lieu of welding, providing fasteners meet, or exceed the strength of specified welds. Submit fastener design data to the Structural Engineer of Record for review.
6. Substitution of fiber secondary reinforcement for welded wire fabric on supported slabs is prohibited.
7. Do not suspend any items, such as ductwork, mechanical and electrical fixtures, ceilings, etc. from steel deck.
8. Roof deck sidelaps shall be attached at ends of cantilevers and at a maximum spacing 12" o.c. from cantilevered roof deck ends. The roof deck must be completely fastened to the supports and at the sidelaps before any load is applied to the cantilever.
9. Submit shop drawings for review of general conformance to design concept in accordance with Specifications in the Project Manual. Erection drawings shall show type of deck, shop finish, accessories, method of attachment, edge details, deck openings and reinforcement, and sequence of installation.
10. Installation holes shall be sealed with a closure plate 2 gauges thicker than deck and mechanically fastened to deck. Steel deck holes visible from below will be rejected. Deck units that are bent, warped, or damaged in any way which would impair the strength and appearance of the deck shall be removed from the site.
11. Where gauge metal pounstops are indicated, supply pounstops designed to meet, or exceed the gauges listed in the SDI Pounstop Selection Table (min. 18 ga.) as required for slab depth, concrete weight, and cantilever distance, unless noted otherwise.
12. The Erector shall shim between parallel roof beams and joists with differential mill and induced cambers for level deck bearing.

STEEL STAIRS

1. Refer to the Design Criteria notes for live load and handrail requirements.
2. All stair designs shall be provided by the Stair Manufacturer/Fabricator's Specialty Structural Engineer and shall be stamped by a Professional Engineer registered in the State of Indiana. Stair designs shall be in accordance with all applicable code provisions of the IBC.
3. The Stair Manufacturer/Fabricator's Specialty Structural Engineer shall provide the Structural Engineer of Record with drawings showing location, direction and magnitudes of all stair load reactions on the building structure for approval, prior to fabrication.
4. The Stair Manufacturer/Fabricator shall coordinate the transition between the supported structural floor slab and the stair structure with the Structural Steel Fabricator, prior to fabrication.
5. Refer to the Architectural Drawings for stair width, rise, run, tread and riser geometry, handrail and guardrail design, shaft wall construction, etc.

STEEL CONNECTION NOTES

1. Typical beam-to-beam and beam-to-column connections shall be bearing type using A325 bolts, unless noted otherwise.
2. Shop connections unless otherwise shown, may be either bolted or welded. All field connections shall be bolted unless otherwise shown on the Structural Drawings.
3. Connections shall be designed by the Steel Fabricator to support the reactions shown on the framing plan(s). Simple span connections without reactions listed on the Structural Drawings shall be designed by the Steel Fabricator in accordance with Table 3-6 of the AISC "Manual of Steel Construction, 14th Edition". For composite beams where reactions are not indicated, design connections for 75% of the Maximum Total Uniform Load ASD value for the applicable beam size and span given in Table 3-6. For non-composite beams, design connections for 50% of the tabulated ASD value.
4. Submit calculations for connections not detailed on the Structural Drawings and not covered by the AISC Tables, including but not limited to:
   A) Column Splices.
   B) Moment Connections.
   C) Bracing Connections including Collectors and Drag Struts.
   D) Skewed Shear Connections.
   E) Girder and Truss Splices.
   F) Truss-to-Column and Truss-to-Truss Connections.
   G) Truss Web-to-Chord and Web-to-Gusset Connections.
   H) Compression Ring/Tension Ring, and Raker Beam Connections.
5. All beam-to-beam connections shall be double angle, unless shown or noted otherwise.
6. All beam-to-column connections shall be at the column centerline, unless noted otherwise. Shear tab connections to tubes are permitted unless otherwise noted or detailed.
7. Typical beam-to-beam, and beam-to-column field-bolted connections may be tightened to the snug-tight condition, unless otherwise noted.
8. Bolted connections in moment frames, bracing connections, hangers and stub columns, crane connections, and those designated PT (pretensioned) on the Drawings shall be pretensioned joints utilizing tension-control (TC) bolts or direct tension indicators. Holes for PT bolts shall be 1/16" larger than the bolt diameter. All pretensioned joints must be inspected by the Testing Agency.
9. Connect bracing members for two components of stress unless otherwise approved by the Structural Engineer of Record. Provide a minimum 2-bolt or welded field connection.
10. Locate centerlines of all vertical bracing members on column centerlines in vertical plane and on column and beam centerlines in horizontal plane, unless otherwise shown on the Structural Drawings.
11. All welding shall be in conformance with AWS D1.1, using E70XX electrodes, unless shown or noted otherwise. Welding, both shop and field, shall be performed by welders certified for the weld types and positions involved according to the current edition of AWS D1.1. Perform all AESS welds with care to provide a clean, uniform appearance.
12. Backup bars required for welded connections shall be continuous.
13. Holes in steel shall be drilled or punched. All slotted holes shall be provided with smooth edges. Burning of holes in structural steel shall not be allowed without approval of the Structural Engineer of Record.
14. The minimum thickness of all connection material shall be 5/16" unless noted.
15. Continuous bent plate and angle closures, roof edges, diaphragm chords, etc. around perimeter of the floor and roof, as well as around openings shall be welded with a minimum 1/4" fillet weld x 3" long at 12" o.c., top & bottom, unless noted otherwise. Butt weld joints in continuous diaphragm chord for continuity. For continuous perimeter angles and bent plates perpendicular to and connected to the top chords of joists, provide a minimum 3" of 1/4" weld at each joist. Continuous angle and bent plate closures may be shop-applied to the supporting structural members only when requested and approved by Structural Engineer of Record.
16. Where steel beams are called to have wood nailers supporting wood floor or roof framing, provide 1/2" diameter carriage bolts spaced at 24" on center and staggered each side of the beam web, unless noted otherwise. Carriage bolts may be over-tightened to compress the rounded head in the nailer to facilitate installation of continuous bands/trim pieces, rafters, trusses, etc.
17. A qualified independent Testing Agency shall be retained to perform inspection and testing of structural steel field weldaments as follows:

WELD INSPECTION SCHEDULE

WELD TYPE	VT	MT	UT	PT	CRT	COMMENTS
FILLET (SINGLE PASS)	25%	-	-	-	-	ROOT PASS AND FINISHED WELD
FILLET (MULTIPLE PASS)	50%	25%	-	-	-	
FLARE BEVEL/ FLARE V	25%	-	-	-	-	
GROOVE (PARTIAL PENETRATION)	100%	-	100%	-	-	REFERENCE NOTE 'E' BELOW
GROOVE (FULL PENETRATION)	100%	-	100%	-	-	ALL FULL PENE-TRATION WELDS

   A) Test procedures:
      VT = Visual Test (inspection)
      MT = Magnetic Particle Test: ASTM E109, cracks or incomplete fusion or penetration not acceptable.
      UT = Ultrasonic Test: ASTM E164.
      PT = Penetrant Test: ASTM E165.
      RT = Radiographic Test: ASTM E94 and ASTM E142, min. quality level 2-21.
   B) Acceptance standards in AWS D1.1 shall be followed for each test procedure.
   C) Test procedures may be substituted to meet feasibility requirements of test based upon weld geometry or other factors with the approval of the Structural Engineer of Record.
   D) Samples shall occur at random locations; additional tests may be required at locations noted on the Drawings.
   E) Groove welds include square, bevel, V, U, and J grooves including single and double pass types.
   F) Partial penetration square groove welds at end seal plates of tubular members do not require inspection.
   G) Weld Procedure Specifications (WPS) shall be produced and maintained in accordance with AWS D1.1. The independent Testing Agency shall have access to all WPS's during the course of testing and inspection.
   H) For highly-restrained welded joints, especially in thick plates and/or heavy structural shapes, details the welds so that shrinkage occurs as much as possible in the direction the steel was rolled. Refer to the AISC Manual for preferred welded-joint arrangements that reduce the possibility for lamellar tearing. Members scheduled to receive highly-restrained connections shall be tested by the independent Testing Agency by Ultrasonic Testing prior to commencing welding.
   I) In addition to inspection requirements for fillet welds in Table above, 100% of field welding of diagonal bracing members to gusset plates shall be visually inspected (VT).

STEEL JOIST NOTES

1. All steel joists shall be designed, fabricated, and erected in accordance with SJI Standard Specifications.
2. Joist bridging (if shown) is schematically indicated. Provide all bridging necessary to conform to SJI Specifications.
3. The ends of all bridging lines terminating at walls or beams shall be anchored to the wall or beam.
4. Joist bridging and connections shall be completely installed prior to placing any construction loads on the joists. Construction loading shall not exceed the joist design load.
5. All roof joists shall be capable of resisting the net uplift a noted on the Structural Drawings (min. 15 psf net). Provide an additional row of continuous horizontal bottom chord bridging at the first panel point location at each end of all roof joists.
6. Special joists (SP) shall be designed for the load designations specified on the Structural Drawings. Designs shall properly account for the distribution of concentrated loads, live loads, and for the effect of openings. Designs are to meet the requirements of SJI.
7. Joists shall meet the following deflection criteria per SJI. Maximum live load deflection shall not exceed:
   A) Roofs without suspended ceilings: L/240
   B) Roof with suspended ceilings: L/360
   C) Floors: L/360
8. The Joist Manufacturer shall submit calculations for all special joists to Structural Engineer of Record for record purposes prior to fabrication. These calculations shall bear the seal and signature of a Professional Engineer registered in the State of Indiana.
9. Joists on column centerlines shall have extended bottom chord connections for erection stability, unless otherwise noted. Do not connect bottom chord extensions, unless otherwise noted or shown.
10. Joists on, or near column centerlines shall have field-bolted connections for erection stability, unless otherwise noted.
11. The Joist Manufacturer shall coordinate with the Structural Steel Fabricator for the design of all connections to support columns, beams, bearing seats, etc. prior to submittal of shop drawings.
12. Where a joist is part of a moment-resisting frame, delay the connection of the bottom chord to the column until all dead loads have been placed. All field-bolted and field-welded connections in moment-resisting frames shall be inspected per AWS and AISC requirements.
13. The Joist Manufacturer shall furnish evidence that the joist meets or exceeds the specified minimum moment of inertia (Ix) listed on the Plans. Where a minimum Ix value is not specified, the Ix value can be that required to meet the specified loading and deflection criteria.
14. All steel joists shall be furnished with standard SJI camber, unless noted otherwise.
15. All items suspended from joists such as catwalks, basketball goals, operable partitions, etc. should be installed after all dead loads of roofing, flooring, ceilings, etc. are installed.
16. All joists shall be shop primed in accordance with SJI requirements, unless note otherwise. Color to match structural steel primer, unless approved in writing.
17. Provide sloped bearing ends where joist slope exceeds 1/4" per foot.
18. Do not field cut or alter joists without the written approval of the Joist Manufacturer.

CAST IN PLACE CONCRETE

1. Details of fabrication of reinforcement, handling and placing of the concrete, construction of forms and placement of reinforcement not otherwise covered by the Plans and Specifications, shall comply with the ACI Code requirements of the latest revised date.
2. Cold weather concreting shall be in accordance with ACI 306. Cold weather is defined as a period when for more than 3 successive days the average daily air temperature drops below 40F and stays below 50F. The Contractor shall maintain a copy of this publication on site.
3. Hot weather concreting shall be in accordance with ACI 305. Hot weather is defined as any combination of the following conditions that tends to impair the quality of the freshly mixed or hardened concrete: high ambient temperature, high concrete temperature, low relative humidity, wind speed, or solar radiation The Contractor shall maintain a copy of this publication on site.
4. A certified Testing Agency shall be retained to perform industry standard testing including measurement of slump, air temperature, concrete cylinder testing, etc. to ensure conformance with the Contract Documents. Submit reports to Architect/Engineer.
5. Finishing of Slabs: After screeding, bull floating and floating operations have been completed, apply final finish as indicated below, and as described in the Division 3 Cast In Place Concrete Specification of the Project Manual.

A.	Floor Slabs	Hard Trowel Finish
B.	Ramps, Stairs, & Sidewalks	Broom Finish
C.	Surfaces to Receive Topping Slab	Float Finish
D.	Surfaces to receive thick-set mortar beds or similar cementitious materials	Float Finish
E.	Driving Surfaces	Rough Swirl Finish

   Sample Finishes: See Specifications for sample and mockup requirements, if any.
   Floor Tolerances: See the Specifications for specified FF and Fl tolerances. Ff and Fl testing shall be performed by the Testing Agency in accordance with ASTM E-1155. Results, including acceptance or rejection of the work will be provided to the Contractor and the Architect/Engineer within 48 hours after data collection. Remedies for out-of-tolerance work shall be in accordance with the Specifications. When approved by the Structural Engineer of Record, measurement of the gaps beneath a 10-foot straight edge may be used in lieu of Ff and Fl testing. Approval must be obtained in writing prior to the beginning of concrete operations.
6. Finishing of Formed Surfaces: Finish formed surfaces as indicated below, and as described in the Division 3 Cast In Place Concrete Specification of the Project Manual.

A.	Sides of Footings & Pile Caps	Rough Form Finish
B.	Sides of Grade Beams	Rough Form Finish
C.	Surfaces not exposed to public view	Rough Form Finish
D.	Surfaces exposed to public view	Smooth Form Finish

7. The Contractor shall consult with the Structural Engineer of Record before starting concrete work to establish a satisfactory placing schedule and to determine the location of construction joints so as to minimize the effects of shrinkage in the floor system.
8. Sawn or tooled control/contraction joints shall be provided in all slabs on grade. For a framed structure, joints shall be located on all column lines. If the column spacing exceeds 20'-0", provide intermediate joints. Exterior slabs, and interior slabs without column shall have joints spaced a maximum of 15'-0" apart. Layout joints so that maximum aspect ratio (ratio of long side to short side) does not exceed 1.5.
9. Where vinyl composition tile, vinyl sheets goods, thin-set epoxy terrazzo, or other similar material is the specified finish floor material, the Contractor shall coordinate the locations of control/contraction and construction joints with the Finish Flooring Contractor. Submit a dimensioned plan showing joint locations and proposed sequence of floor pours.
10. Unless specifically noted on the Plans, composite and non-composite supported slabs on metal deck, and supported cast-in-place concrete slabs do not require sawn control joints.
11. Joints in slabs to receive a finished floor may require unfilled, unless required to be filled by the finish flooring contractor. All exposed slabs shall be filled with sealant specified in Division 7, or as follows: All slabs in industrial, manufacturing, or warehouse applications subject to wheeled traffic shall be filled with specified epoxy resin sealant, all other slabs shall be filled with specified elastomeric sealant. Defer filling of joints as long as possible, preferably a minimum of 4 to 6 weeks after the slab has been cured. Prior to filling, remove all debris from the slab joints, the fill in accordance with the manufacturer's recommendations.
12. Refer to the Architectural Drawings for locations and details of reveals (1" maximum depth) in exposed walls.
13. Refer to the Architectural Drawings for chamfer requirements for corners of concrete. Where not indicated, provide 3/4" chamfers on exposed corners of concrete, except those abutting masonry.
14. Refer to the Architectural Drawings for exact locations and dimensions of recessed slabs, ramps, stairs, thickened slabs, etc. Slope slabs to drains where shown on the Architectural and Plumbing Drawings.
15. Sidewalks, drives, exterior retaining walls, and other site concrete are not indicated on the Structural Drawings. Refer to the Site/Civil and Architectural Drawings for locations, dimensions, elevations, jointing, and finish details.

CONCRETE REINFORCING

1. Reinforcement, other than cold drawn wire for spirals and welded wire fabric, shall have deformed surfaces in accordance with ASTM A305.
2. Reinforcing steel shall conform to ASTM A615, Grade 60, unless noted.
3. Welded wire fabric shall conform to ASTM A1064, unless noted.
4. Where hooks are indicated, provide standard hooks per ACI and CRSI for all bars unless other hook dimensions are shown on the plans or details.
5. Reinforcement in footings, walls and beams shall be continuous. Lap bars a minimum of 40 diameters, unless noted otherwise.
6. Reinforcement shall be supported and secured against displacement in accordance with the CRSI 'Manual of Standard Practice'.
7. Details of reinforcing steel fabrication and placement shall conform to ACI 315 'Details and Detailing of Concrete Reinforcement' and ACI 315R 'Manual of Engineering and Placing Drawings for Reinforced Concrete Structures', unless otherwise indicated.
8. Spread reinforcing steel around small openings and sleeves in slabs and walls, where possible, and where bar spacing will not exceed 1.5 times the normal spacing. Discontinue bars at all large openings where necessary, and provide an area of reinforcement, equal to the interrupted reinforcement, in full length bars, distributing one-half each side of the opening. Where shrinkage and temperature reinforcement is interrupted, add (2) #5 x opening dimension + 4'-0" on each side of the opening. Provide #5 x 4'-0" long diagonal bars in both faces, at each corner of openings larger than 12" in any direction.
9. Provide standees for the support of top reinforcement for footings, pile caps, and mats.
10. Provide individual high chairs with support bars, as required for the support of top reinforcement for supported slabs. Do NOT provide standees.
11. Provide snap-on plastic space wheels to maintain required concrete

FLOOR FRAMING PLAN NOTES

1. REFER TO SHEET S001 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.
2. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
3. ALL ELEVATIONS LISTED ARE REFERENCED FROM THE GROUND FLOOR FINISH FLOOR ELEVATION 100'-0" OF NEW CONSTRUCTION. REFER TO THE CIVIL DRAWINGS FOR EXACT U.S.G.S. ELEVATION.
4. REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
5. COORDINATE SIZE AND LOCATION OF ANY FLOOR OPENINGS w/ APPROPRIATE TRADE(S).
6. STAIRS AND/OR SHIPS LADDERS ARE BY STEEL FABRICATOR. COORD. EXTENTS / GEOMETRY w/ ARCH. DRAWINGS.
7. INSTALL CONTINUOUS BENT PLATE/ANGLE POUR STOPS AT ALL ELEVATED SLAB-ON-DECK PERIMETER EDGES AND AROUND ALL INTERIOR FLOOR OPENINGS (BOTH SHOWN AND NOT SHOWN). SEE DETAIL 1/S-411.
8. INSTALL CONTINUOUS CONCRETE CURBS AROUND THE PERIMETER OF ALL MECHANICAL ROOMS AND AROUND FLOOR PENETRATIONS BOTH SHOWN AND NOW SHOWN INCLUDING STEEL COLUMN PENETRATIONS. SEE STRUCTURAL SECTIONS IN THE S400 SERIES FOR CONC. CURB DIMENSIONS AND REINF.
9. PROVIDE CHANNEL FRAMES AT ALL SUPPORTED SLAB OPENINGS PER TYPICAL DETAIL ON S-411. COORDINATE EXACT NUMBER, LOCATIONS & DIMENSIONS WITH THE APPROPRIATE CONTRACTORS & THE ARCH. & MEP DRAWINGS.

PLAN LEGEND:

S4 — 2 1/2" NORMAL WEIGHT CONC. SLAB w/ 6x6 W2.9xW2.9 W.W.F. ON 1 1/2", 20 GA. GALV. COMPOSITE FLOOR DECK. TOTAL THICKNESS = 4". T/SLAB TO MATCH EXISTING.

S5 — 3" NORMAL WEIGHT CONC. SLAB w/ 6x6 W2.9xW2.9 W.W.F. ON 2", 18 GA. GALV. COMPOSITE FLOOR DECK. TOTAL THICKNESS = 5".

DENOTES APPROX. LOCATION OF FLOOR OPENING. COORD. EXACT SIZE AND LOCATION WITH MECHANICAL CONTRACTOR. PROVIDE CURB AT FULL PERIMETER OF OPENING PER DETAIL 11/S-413. REFER TO TYPICAL DETAILS ON SHEET S400 FOR FRAMING AT OPENING.

DENOTES BEAM SIZE & NUMBER OF 3/4" DIA. x 4 3/8" LONG (4" AS WELDED) HEADED SHEAR STUDS UNIFORMLY SPACED ALONG LENGTH OF BEAM

W24X55 (30)
+15'-7"

DENOTES TOP OF STEEL ELEVATION

ROOF FRAMING PLAN NOTES

1. REF. S001 FOR STRUCTURAL NOTES, DESIGN DATA, SCHEDULES & LEGENDS.
2. REF. THE S400 SERIES FOR TYPICAL FRAMING AND MASONRY DETAILS.
3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
4. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FIN. FLOOR ELEVATION +100'-0". COORD. USGS ELEVATION WITH CIVIL DWGS.
5. SEE FOUNDATION PLANS FOR SIZES OF STEEL COLUMNS SUPPORTED ON FOUNDATIONS.
6. INSTALL CONTINUOUS ANGLES AT ALL PERIMETER ROOF EDGES. WELDS OF DIAPHRAGM CHORD-TO-COLLECTOR & COLLECTOR-TO-SPANDREL BEAM TO MATCH CAPACITY OF DECK-TO-DIAPHRAGM CHORD ATTACHMENT.
7. ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAL DRAWINGS.
8. REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
9. COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICAL OPENINGS IN FLOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONTRACTOR(S). LOCATION & SIZE OF ALL DUCT OPENINGS, GRILLES, ETC. SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
10. ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL BEAM UNLESS NOTED OTHERWISE.
11. PROVIDE FRAMES AT ALL ROOF DRAINS, ROOF HATCHES & OTHER ROOF OPENINGS PER TYPICAL DETAILS ON S-411. COORD. EXACT NUMBER, LOCATIONS & DIMENSIONS WITH THE APPROPRIATE CONTRACTORS & THE ARCH. & MEP DWGS.
12. PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT SHOWN ON PLANS OR DETAILS, MINIMUM CMU WALL REINFORCING TO BE #5 VERTS @ 48" O.C. PROVIDE OPEN-CORE BOND BEAMS AT TOPS OF WALLS, AT CHANGES IN CMU THICKNESS, AND WHERE INDICATED ON PLANS & SECTIONS (10'-0" O.C. MAX VERTICAL SPACING). PROVIDE 1/2 OF INTERRUPTED VERTICALS AT JAMBS OF OPENINGS AND PROVIDE ADDITIONAL VERT'S. AT ENDS OF WALLS.
13. ALL MASONRY BOND BEAMS, OTHER THAN BOND BEAM LINTELS OVER OPENINGS, SHALL BE "OPEN-CORE" BOND BEAMS TO ALLOW VERTICAL REINFORCING TO PASS THROUGH, UNLESS NOTED OTHERWISE.
14. REF. ARCH. DWGS. FOR MASONRY CONTROL & EXPANSION JOINT LOCATIONS.
15. ALL HORIZONTAL AND DIAGONAL BRIDGING FOR STEEL JOISTS SHALL BE DESIGNED, LOCATED & PROVIDED BY THE JOIST SUPPLIER PER SJI SPECIFICATIONS.
16. FOR ESTIMATING AND BIDDING PURPOSES ONLY, ASSUME AN ADDITIONAL 1/2" THICKNESS OF CONCRETE WILL BE NECESSARY FOR ALL ELEVATED SLABS ON METAL DECK. THE INTENT OF THIS REQUIREMENT IS TO ACCOUNT FOR ANTICIPATED DEAD LOAD DEFLECTIONS IN THE SUPPORTING STRUCTURE. THE FINISHED SLAB SHALL MEET THE FLATNESS REQUIREMENTS DEFINED IN THE SPECIFICATION.
17. PLAN LEGEND:

T/'X' — DENOTES TOP OF STEEL, SLAB, ETC.

E.O.S. (or EOS) — DENOTES EDGE OF SLAB (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL 1/S-411

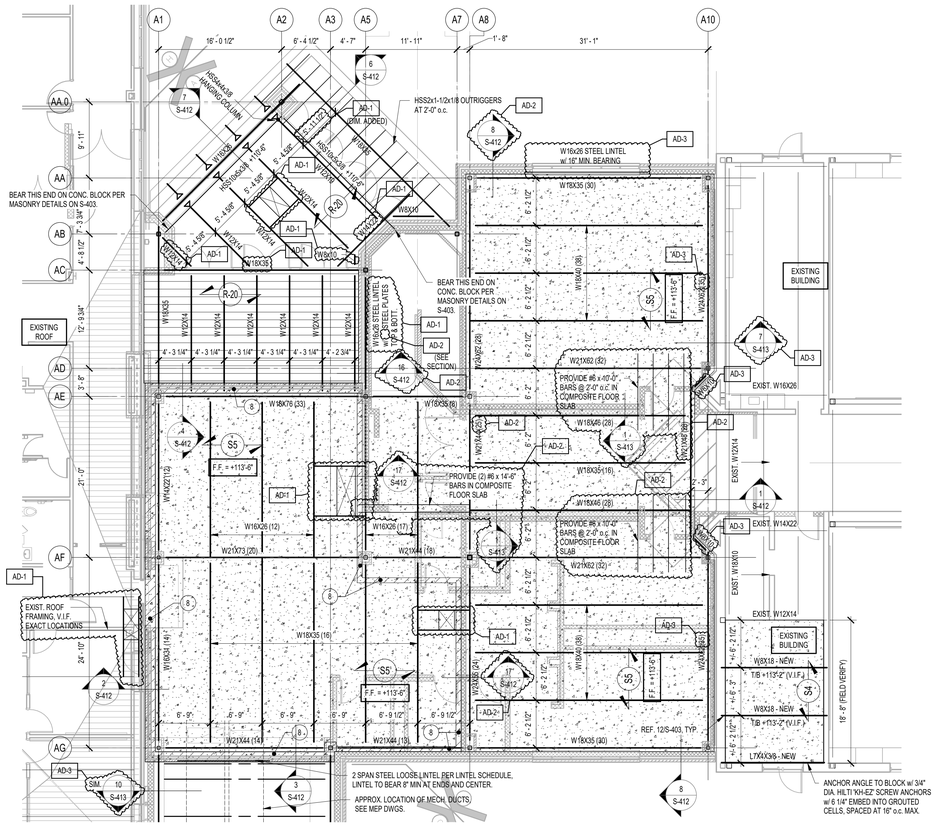
E.O.D. (or EOD) — DENOTES EDGE OF DECK (MEASURED FROM BEAM C.L.) NOTE: PERIMETER ROOF ANGLE/BENT PL NOT REQUIRED

R-20 — DENOTES 1½", 20 GA. GALV. & PRIME-PAINTED WIDE RIB STEEL ROOF DECK. REF. DETAIL 7/S411.

DENOTES BEAM-THRU-BEAM MOMENT CONNECTION PER DETAIL 6/S-411

DENOTES BEAM SIZE
W24X55
+115'-7"
DENOTES TOP OF STEEL ELEVATION
AD-1

DENOTES APPROX. LOCATION OF FRAMED OPENING FOR ROOF DRAIN OR ROOF HATCH. REFER TO DETAIL 8/S-411. COORD. EXACT LOCATION w/ MECH. CONTRACTOR.



1 SECOND FLOOR FRAMING PLAN - UNIT A
1/8" = 1'-0"

1. T/STEEL = +113'-1" TYP.-U.N.O.

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

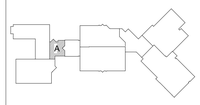
PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION and RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

THIRD FLOOR KEY PLAN

SECOND FLOOR KEY PLAN



FIRST FLOOR KEY PLAN

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PROJECT 21-106
DATE 3/14/22
COORDINATED BY NHF
DRAWN BY NHF
CHECKED BY SAC

SCOTT A. CLORE — REGISTERED — PE10606154 — STATE OF INDIANA — PROFESSIONAL ENGINEER

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REVISIONS

MARK	DATE	ISSUED FOR
AD-1	03.28.2022	ADDENDUM NO. 1
AD-2	04.06.2022	ADDENDUM NO. 2
AD-3	04.11.2022	ADDENDUM NO. 3

DRAWING
SECOND FLOOR FRAMING PLAN - UNIT A

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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SHEET
A
S-203

ROOF FRAMING PLAN NOTES

1. REF. S001 FOR STRUCTURAL NOTES, DESIGN DATA, SCHEDULES & LEGENDS.
2. REF. THE S400 SERIES FOR TYPICAL FRAMING AND MASONRY DETAILS.
3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
4. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FIN. FLOOR ELEVATION +100'-0". COORD. USGS ELEVATION WITH CIVIL DWGS.
5. SEE FOUNDATION PLANS FOR SIZES OF STEEL COLUMNS SUPPORTED ON FOUNDATIONS.
6. INSTALL CONTINUOUS ANGLES AT ALL PERIMETER ROOF EDGES (WELDS OF DIAPHRAGM CHORD-TO-COLLECTOR & COLLECTOR-TO-SPANDREL BEAM TO MATCH CAPACITY OF DECK-TO-DIAPHRAGM CHORD ATTACHMENT.) AD-3
7. ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAL DRAWINGS.
8. REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
9. COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICAL OPENINGS IN FLOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONTRACTOR(S). LOCATION & SIZE OF ALL DUCT OPENINGS, GRILLES, ETC. SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
10. ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL BEAM UNLESS NOTED OTHERWISE.
11. PROVIDE FRAMES AT ALL ROOF DRAINS, ROOF HATCHES & OTHER ROOF OPENINGS PER TYPICAL DETAILS ON S-411. COORD. EXACT NUMBER, LOCATIONS & DIMENSIONS WITH THE APPROPRIATE CONTRACTORS & THE ARCH. & MEP DWGS.
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13. ALL MASONRY BOND BEAMS, OTHER THAN BOND BEAM LINTELS OVER OPENINGS, SHALL BE "OPEN-CORE" BOND BEAMS TO ALLOW VERTICAL REINFORCING TO PASS THROUGH, UNLESS NOTED OTHERWISE.
14. REF. ARCH. DWGS. FOR MASONRY CONTROL & EXPANSION JOINT LOCATIONS.
15. ALL HORIZONTAL AND DIAGONAL BRIDGING FOR STEEL JOISTS SHALL BE DESIGNED, LOCATED & PROVIDED BY THE JOIST SUPPLIER PER SJI SPECIFICATIONS.
16. FOR ESTIMATING AND BIDDING PURPOSES ONLY, ASSUME AN ADDITIONAL 1/2" THICKNESS OF CONCRETE WILL BE NECESSARY FOR ALL ELEVATED SLABS ON METAL DECK. THE INTENT OF THIS REQUIREMENT IS TO ACCOUNT FOR ANTICIPATED DEAD LOAD DEFLECTIONS IN THE SUPPORTING STRUCTURE. THE FINISHED SLAB SHALL MEET THE FLATNESS REQUIREMENTS DEFINED IN THE SPECIFICATION.
17. PLAN LEGEND:

T/'X' — DENOTES TOP OF STEEL, SLAB, ETC.

E.O.S. (or EOS) — DENOTES EDGE OF SLAB (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL 1/S-411

E.O.D. (or EOD) — DENOTES EDGE OF DECK (MEASURED FROM BEAM C.L.) NOTE: PERIMETER ROOF ANGLE/BENT PL NOT REQUIRED

R-20 — DENOTES 1½", 20 GA. GALV. & PRIME-PAINTED WIDE RIB STEEL ROOF DECK. REF. DETAIL 7/S411.

DENOTES BEAM-THRU-BEAM MOMENT CONNECTION PER DETAIL 6/S-411

W24X55 +115'-7" — DENOTES BEAM SIZE; DENOTES TOP OF STEEL ELEVATION

AD-1 — DENOTES APPROX. LOCATION OF FRAMED OPENING FOR ROOF DRAIN OR ROOF HATCH. REFER TO DETAIL 8/S-411. COORD. EXACT LOCATION w/ MECH. CONTRACTOR.

FLOOR FRAMING PLAN NOTES

1. REFER TO SHEET S001 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.
2. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
3. ALL ELEVATIONS LISTED ARE REFERENCED FROM THE GROUND FLOOR FINISH FLOOR ELEVATION 100'-0" OF NEW CONSTRUCTION. REFER TO THE CIVIL DRAWINGS FOR EXACT U.S.G.S. ELEVATON.
4. REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
5. COORDINATE SIZE AND LOCATION OF ANY FLOOR OPENINGS w/ APPROPRIATE TRADE(S).
6. STAIRS AND/OR SHIPS LADDERS ARE BY STEEL FABRICATOR. COORD. EXTENTS / GEOMETRY w/ ARCH. DRAWINGS.
7. INSTALL CONTINUOUS BENT PLATE/ANGLE POUR STOPS AT ALL ELEVATED SLAB-ON-DECK PERIMETER EDGES AND AROUND ALL INTERIOR FLOOR OPENINGS (BOTH SHOWN AND NOT SHOWN). SEE DETAIL 1/S-411.
8. INSTALL CONTINUOUS CONCRETE CURBS AROUND THE PERIMETER OF ALL MECHANICAL ROOMS AND AROUND FLOOR PENETRATIONS BOTH SHOWN AND NOW SHOWN INCLUDING STEEL COLUMN PENETRATIONS. SEE STRUCTURAL SECTIONS IN THE S400 SERIES FOR CONC. CURB DIMENSIONS AND REINF.
9. PROVIDE CHANNEL FRAMES AT ALL SUPPORTED SLAB OPENINGS PER TYPICAL DETAIL ON S-411. COORDINATE EXACT NUMBER, LOCATIONS & DIMENSIONS WITH THE APPROPRIATE CONTRACTORS & THE ARCH. & MEP DRAWINGS.

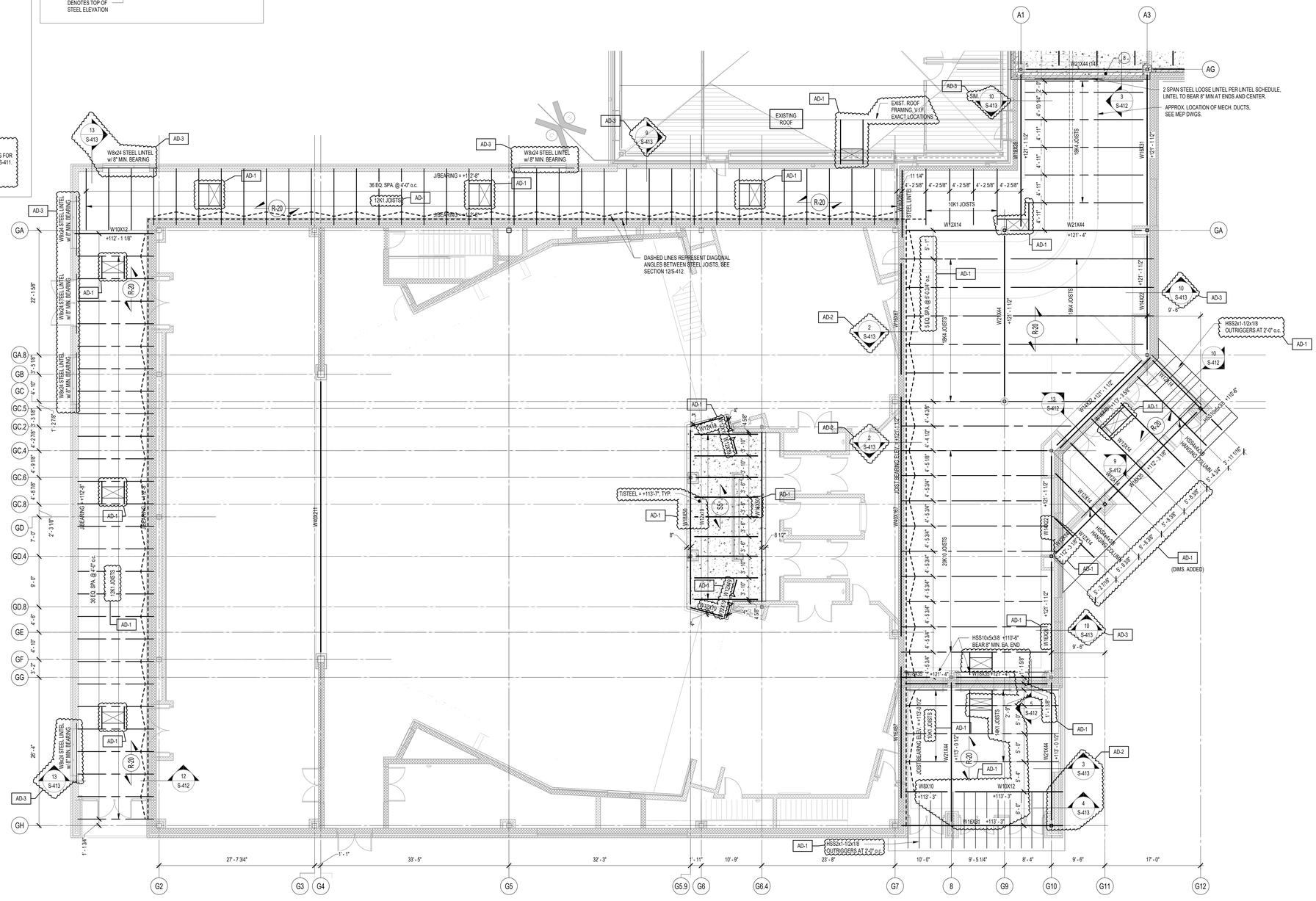
PLAN LEGEND:

S4 — 2 1/2" NORMAL WEIGHT CONC. SLAB w/ 6x6 W2.9xW2.9 W.W.F. ON 1 1/2", 20 GA. GALV. COMPOSITE FLOOR DECK. TOTAL THICKNESS = 4". TIS/LAB TO MATCH EXISTING.

S5 — 3" NORMAL WEIGHT CONC. SLAB w/ 6x6 W2.9xW2.9 W.W.F. ON 2", 18 GA. GALV. COMPOSITE FLOOR DECK. TOTAL THICKNESS = 5".

DENOTES APPROX. LOCATION OF FLOOR OPENING. COORD. EXACT SIZE AND LOCATION WITH MECHANICAL CONTRACTOR. PROVIDE CURB AT FULL PERIMETER OF OPENING PER DETAIL 11/S-413. REFER TO TYPICAL DETAILS ON SHEET S420 FOR FRAMING AT OPENING.

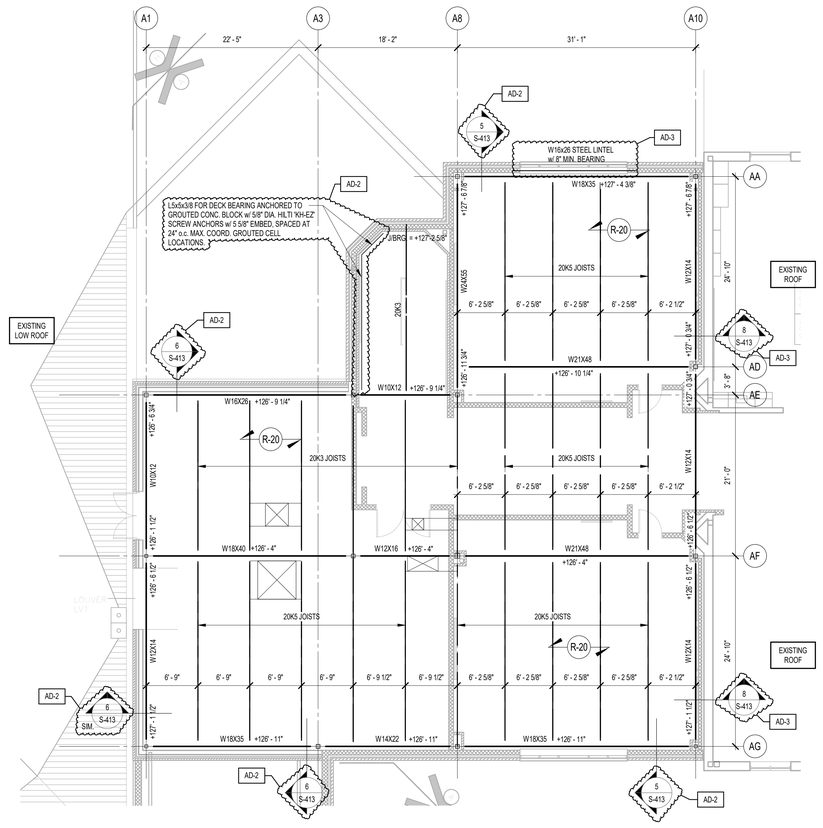
W24X55 (30) +15'-7" — DENOTES BEAM SIZE & NUMBER OF 3/4" DIA. x 4 3/8" LONG (4" AS WELDED) HEADED SHEAR STUDS UNIFORMLY SPACED ALONG LENGTH OF BEAM; DENOTES TOP OF STEEL ELEVATION


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GH
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G5.9
G6
G6.4
G7
8
G9
G10
G11
G12
27' - 7 3/4"
33' - 5"
32' - 3"
23' - 8"
10' - 0"
9' - 5 1/4"
8' - 4"
9' - 6"
17' - 0"
W18X97
W12X65
W16X67
W16X89
W16X100
W24X55
W24X62
W21X44
W18X35
W12X14
W10X12
W8X10
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ROOF FRAMING PLAN NOTES

1. REF. S001 FOR STRUCTURAL NOTES, DESIGN DATA, SCHEDULES & LEGENDS.
2. REF. THE S400 SERIES FOR TYPICAL FRAMING AND MASONRY DETAILS.
3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
4. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR F/N. FLOOR ELEVATION +100'-0". COORD. USGS ELEVATION WITH CIVIL DWGS.
5. SEE FOUNDATION PLANS FOR SIZES OF STEEL COLUMNS SUPPORTED ON FOUNDATIONS.
6. INSTALL CONTINUOUS ANGLES AT ALL PERIMETER ROOF EDGES. WELDS OF DIAPHRAGM CHORD-TO-COLLECTOR & COLLECTOR-TO-SPANDREL BEAM TO MATCH CAPACITY OF DECK-TO-DIAPHRAGM CHORD ATTACHMENT.
7. ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAL DRAWINGS.
8. REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
9. COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICAL OPENINGS IN FLOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONTRACTOR(S). LOCATION & SIZE OF ALL DUCT OPENINGS, GRILLES, ETC. SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
10. ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL BEAM UNLESS NOTED OTHERWISE.
11. PROVIDE FRAMES AT ALL ROOF DRAINS, ROOF HATCHES & OTHER ROOF OPENINGS PER TYPICAL DETAILS ON S-411. COORD. EXACT NUMBER, LOCATIONS & DIMENSIONS WITH THE APPROPRIATE CONTRACTORS & THE ARCH. & MEP DWGS.
12. PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT SHOWN ON PLANS OR DETAILS, MINIMUM CMU WALL REINFORCING TO BE #5 VERTS @ 48" O.C. PROVIDE OPEN-CORE BOND BEAMS AT TOPS OF WALLS, AT CHANGES IN CMU THICKNESS, AND WHERE INDICATED ON PLANS & SECTIONS (10'-0" O.C. MAX VERTICAL SPACING). PROVIDE 1/2 OF INTERRUPTED VERTICALS AT JAMBS OF OPENINGS AND PROVIDE ADDITIONAL VERT'S. AT ENDS OF WALLS.
13. ALL MASONRY BOND BEAMS, OTHER THAN BOND BEAM LINTELS OVER OPENINGS, SHALL BE "OPEN-CORE" BOND BEAMS TO ALLOW VERTICAL REINFORCING TO PASS THROUGH, UNLESS NOTED OTHERWISE.
14. REF. ARCH. DWGS. FOR MASONRY CONTROL & EXPANSION JOINT LOCATIONS.
15. ALL HORIZONTAL AND DIAGONAL BRIDGING FOR STEEL JOISTS SHALL BE DESIGNED, LOCATED & PROVIDED BY THE JOIST SUPPLIER PER SJI SPECIFICATIONS.
16. FOR ESTIMATING AND BIDDING PURPOSES ONLY, ASSUME AN ADDITIONAL 1/2" THICKNESS OF CONCRETE WILL BE NECESSARY FOR ALL ELEVATED SLABS ON METAL DECK. THE INTENT OF THIS REQUIREMENT IS TO ACCOUNT FOR ANTICIPATED DEAD LOAD DEFLECTIONS IN THE SUPPORTING STRUCTURE. THE FINISHED SLAB SHALL MEET THE FLATNESS REQUIREMENTS DEFINED IN THE SPECIFICATION.
17. PLAN LEGEND:

T/X'	DENOTES TOP OF STEEL, SLAB, ETC.
E.O.S. (or EOS)	DENOTES EDGE OF SLAB (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL 1/S-411
E.O.D. (or EOD)	DENOTES EDGE OF DECK (MEASURED FROM BEAM C.L.) NOTE: PERIMETER ROOF ANGLE/BENT PL NOT REQUIRED
R-20	DENOTES 1½", 20 GA. GALV. & PRIME-PAINTED WIDE RIB STEEL ROOF DECK. REF. DETAIL 7/S411.
	DENOTES BEAM-THRU-BEAM MOMENT CONNECTION PER DETAIL 6/S-411
W24X55 +115'-7"	DENOTES BEAM SIZE; DENOTES TOP OF STEEL ELEVATION
AD-1	DENOTES APPROX. LOCATION OF FRAMED OPENING FOR ROOF DRAIN OR ROOF HATCH. REFER TO DETAIL 8/S-411. COORD. EXACT LOCATION w/ MECH. CONTRACTOR.



1 ROOF FRAMING PLAN - UNIT A
1/8" = 1'-0"

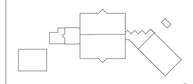
GIBRALTAR DESIGN
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PROJECT

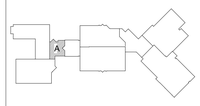
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION and RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

THIRD FLOOR KEY PLAN



SECOND FLOOR KEY PLAN



FIRST FLOOR KEY PLAN

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Indianapolis, IN 46260
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PROJECT
21-106
DATE
3/14/22
COORDINATED BY
NHF
DRAWN BY
NHF
CHECKED BY
SAC

SCOTT A. CLORE MECHANICAL PE10606154 STATE OF INDIANA PROFESSIONAL ENGINEER

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REVISIONS

MARK	DATE	ISSUED FOR
AD-2	04.06.2022	ADDENDUM NO. 2
AD-3	04.11.2022	ADDENDUM NO. 3

DRAWING
ROOF FRAMING PLAN - UNIT A

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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SHEET
A
S-205

HIGH ROOF FRAMING PLAN NOTES

A. REFER TO SHEET S001 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.
B. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
C. ALL ELEVATIONS LISTED ARE REFERENCED FROM THE GROUND FLOOR FINISH FLOOR ELEVATION 100'-0" OF NEW CONSTRUCTION. REFER TO THE CIVIL DRAWINGS FOR EXACT U.S.G.S. ELEVATION.
D. REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
E. COORDINATE SIZE AND LOCATION OF ANY ROOF OPENINGS w/ APPROPRIATE TRADE(S).
F. JOIST BRIDGING LOCATIONS AND SIZES ARE TO BE DETERMINED BY SUPPLIER PER SJI STANDARDS.
G. BEAM BEAM ON TOP OF COLUMN AT THIS LOCATION. DO NOT PROJECT BEAM BEYOND OUTSIDE FACE OF STUD AT EXTERIOR WALL.
H. NOT USED.
I. NOT USED.
J. NOT USED.
K. NOT USED.

AD-3

PLAN LEGEND:

R-20 — DENOTES 1-1/2", 20 GA. WIDE RIB STEEL ROOF DECK, PRIME PAINTED ONLY.

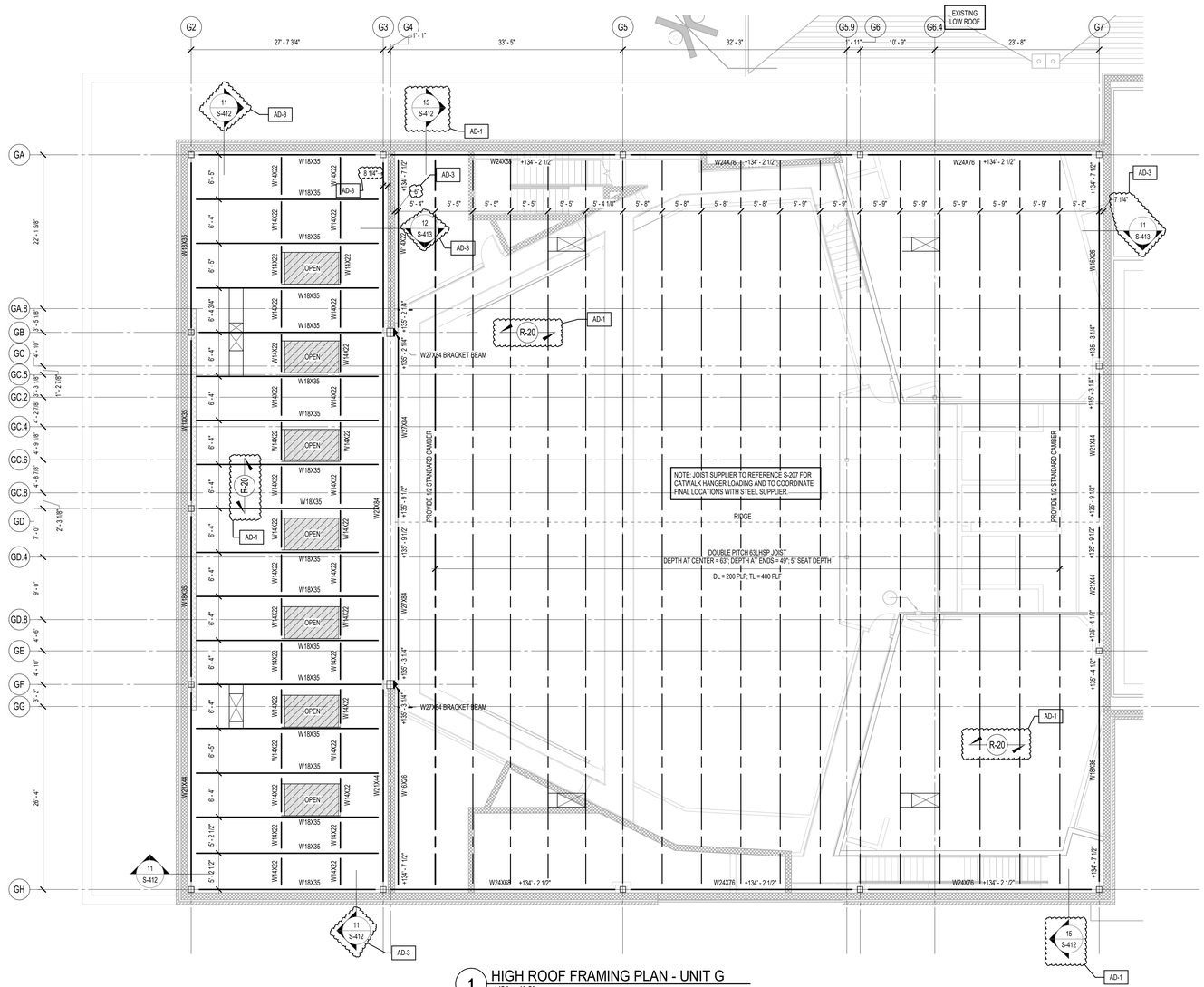
R-20A — DENOTES 1-1/2", 20 GA. WIDE-RIB ACCUSTICAL STEEL ROOF DECK, PRIME PAINTED (BOTH SIDES) ONLY.

R-3" — DENOTES 3", 20 GA. WIDE-RIB (TYPE 'N') STEEL ROOF DECK, PRIME PAINTED ONLY.

DENOTES APPROX. LOCATION OF ROOF OPENING. COORD. EXACT SIZE AND LOCATION WITH APPROPRIATE TRADE. REFER TO TYPICAL DETAILS ON SHEET S420 FOR FRAMING AT OPENING.

DENOTES BEAM SIZE
W24X55
25K +15'-7" 25K
DENOTES TOP OF STEEL ELEVATION
DENOTES UNFACTORED MAXIMUM BEAM REACTION. WHERE REACTIONS ARE NOT LISTED USE 10 K.
AD-3

OPEN — DENOTES FRAMED OPENING FOR MECHANICAL AND/OR KITCHEN ROOF-TOP EQUIPMENT. REFER TO DETAIL 8/S-411, OR PROVIDE PRE-FABRICATED ADJUSTABLE BOLT-IN FRAMES BY "QUICKFRAMES USA, LLC".



1 HIGH ROOF FRAMING PLAN - UNIT G
1/8" = 1'-0"

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CROWN POINT COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

THIRD FLOOR KEY PLAN

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FIRST FLOOR KEY PLAN

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PROJECT 21-106
DATE 3/14/22
COORDINATED BY NHF
DRAWN BY NHF
CHECKED BY SAC

SCOTT A. CLORE — REGISTERED — PE10606154 — STATE OF INDIANA — PROFESSIONAL ENGINEER

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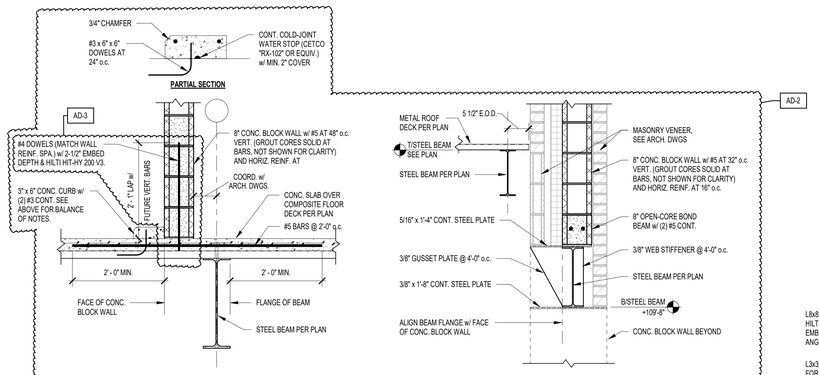
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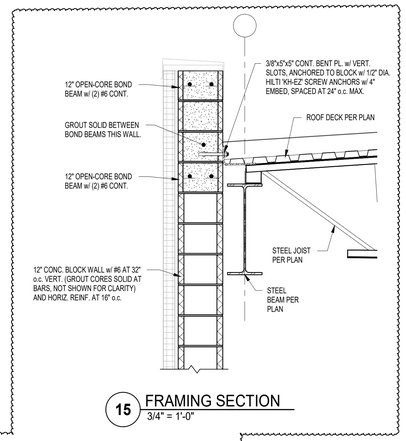
DRAWING
HIGH ROOF FRAMING PLAN - UNIT G

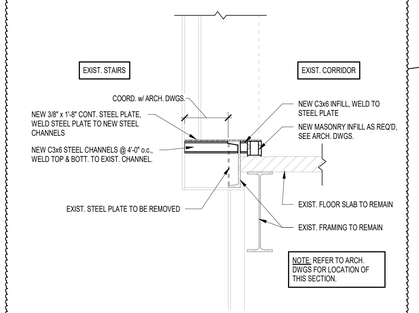
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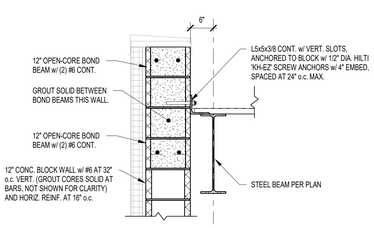
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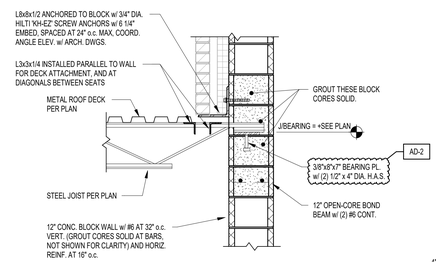
SHEET
G
S-206

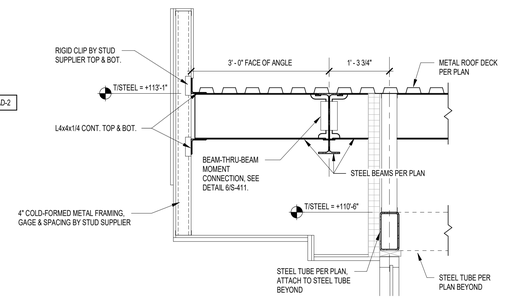


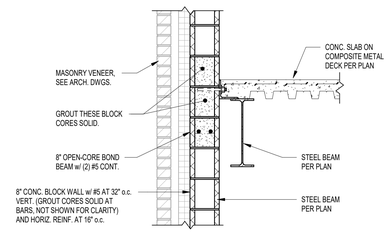


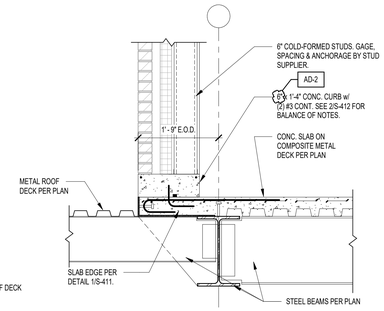


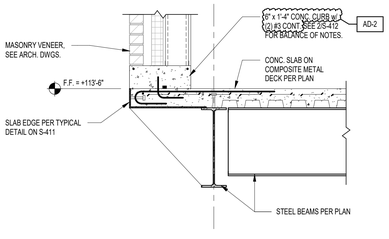


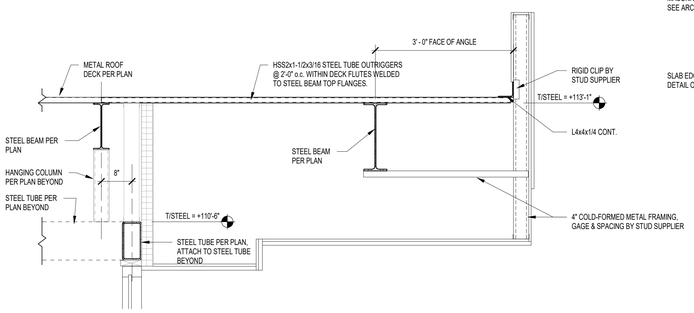


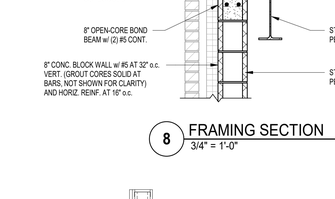


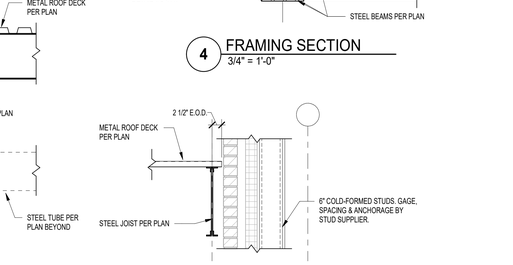


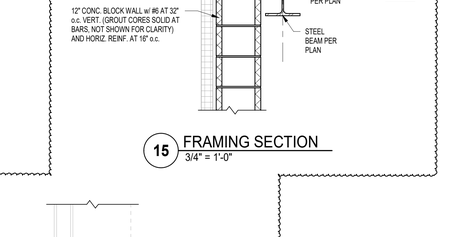


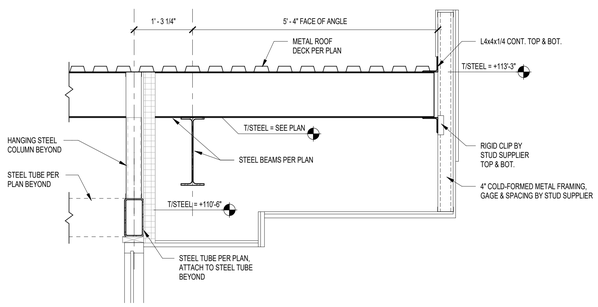


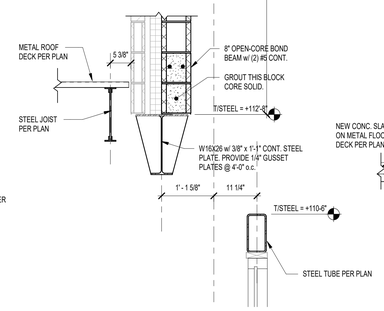


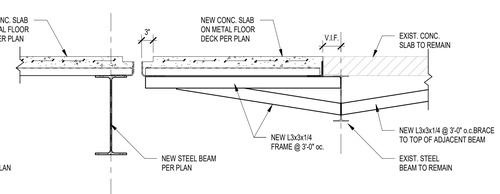












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PROJECT

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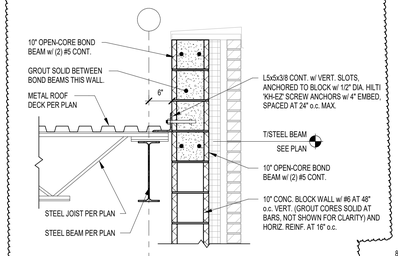
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AD-2	04.06.2022	ADDENDUM NO. 2
AD-3	04.11.2022	ADDENDUM NO. 3

DRAWING
STRUCTURAL FRAMING SECTIONS

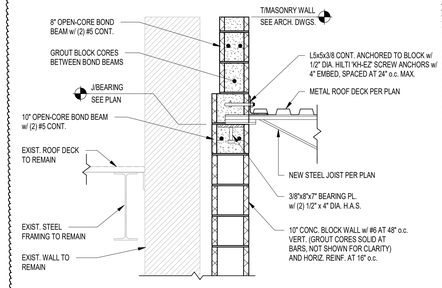
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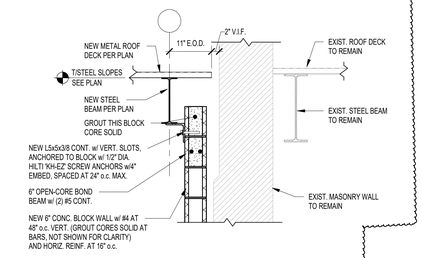
SHEET
S-412



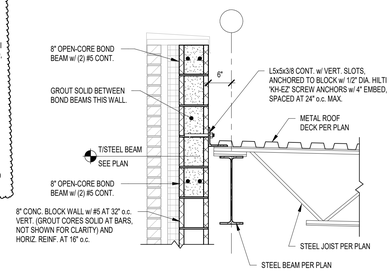
10 FRAMING SECTION
3/4" = 1'-0"



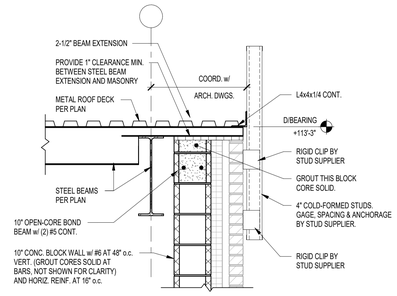
9 FRAMING SECTION
3/4" = 1'-0"



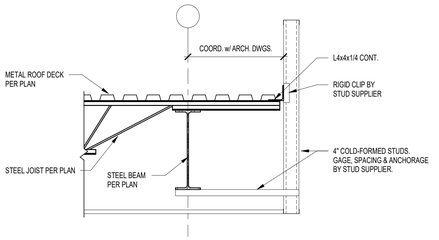
8 FRAMING SECTION
3/4" = 1'-0"



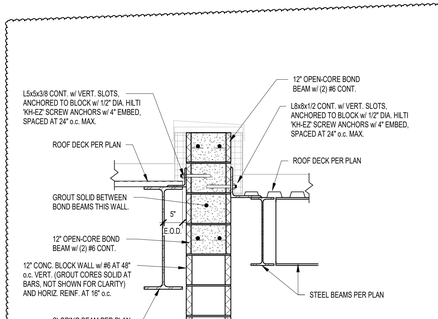
5 FRAMING SECTION
3/4" = 1'-0"



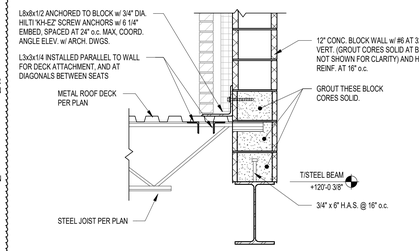
4 FRAMING SECTION
3/4" = 1'-0"



3 FRAMING SECTION
3/4" = 1'-0"

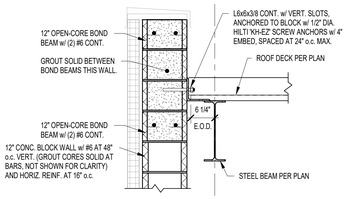


7 FRAMING SECTION
3/4" = 1'-0"

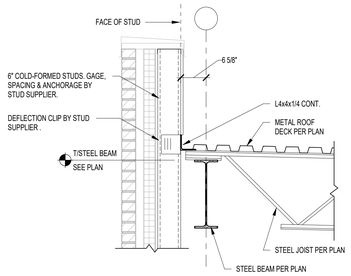


2 FRAMING SECTION
3/4" = 1'-0"

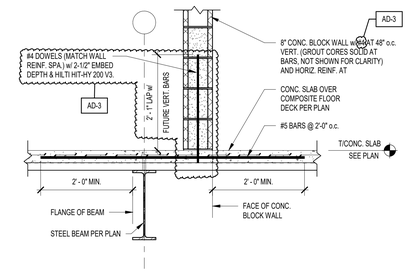
12 FRAMING SECTION
3/4" = 1'-0"



11 FRAMING SECTION
3/4" = 1'-0"



6 FRAMING SECTION
3/4" = 1'-0"



1 FRAMING SECTION
3/4" = 1'-0"

AD-2 NEW SHEET ADDED TO CONSTRUCTION DOCUMENTS THIS ADDENDUM

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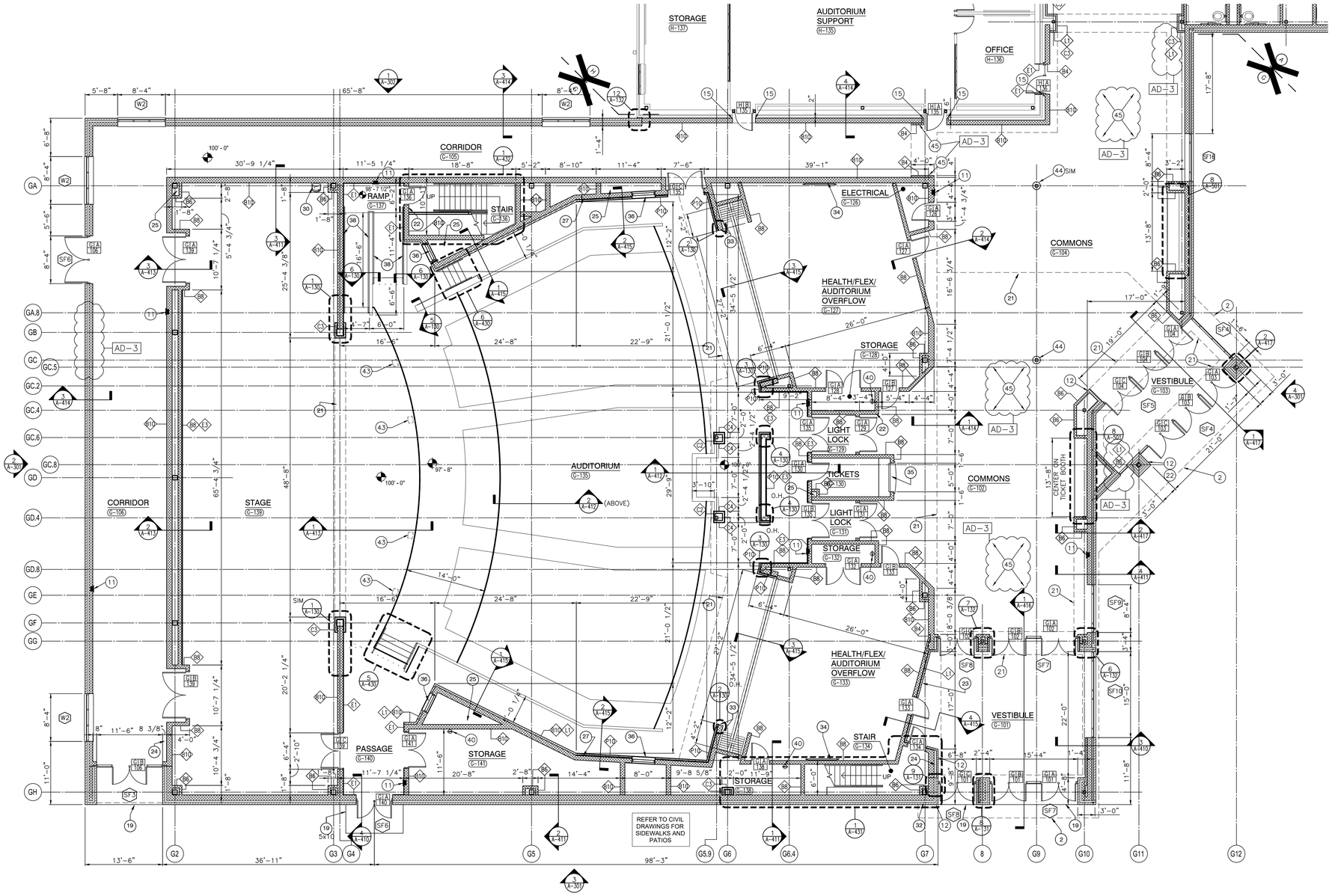
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DRAWING
STRUCTURAL FRAMING SECTIONS

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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SHEET
S-413



UNIT "G" ARCHITECTURAL FIRST FLOOR PLAN

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

GENERAL PLAN NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO G-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" CONNECTING TO THE EXISTING CLASSROOM BUILDING AT 99'-6"). 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. 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.

K. REFER TO FINISH PLANS FOR LOCATION AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.

L. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSED, EXCEPT AT MASONRY BULKHEADS AND EXTERIOR WINDOW JAMBS.

M. REFER TO DEMOLITION SHEETS FOR ADDITIONAL PATCHING AND REPAIR WORK.

PLAN LEGEND:

INDICATES STOREFRONT, CURTAIN WALL, OR WINDOW SYSTEM. REFER TO A-600 SERIES DRAWINGS FOR ELEVATIONS AND DETAILS.

INDICATES WALL TYPES REFER TO A-120 FOR WALL THICKNESS, HEIGHT, AND COMPOSITION.

AD-2

PLAN NOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

1. CONCRETE VOID SLAB/WALK. REFER TO STRUCTURAL DRAWINGS.
2. LINE OF NEW CANOPY. REFER TO SECTIONS.
3. PATCH FLOOR, SKIM COAT ENTIRE AREA AND PREPARE FOR NEW FINISHES.
4. BACKFILL PER SPEC AND REPAIR VAPOR BARRIER. POUR NEW SLAB AND SKIMCOAT LEVEL WITH ADJACENT SLAB SURFACES.
5. WHERE DOOR FRAME HAS BEEN REMOVED, PATCH WALL TO MATCH EXISTING ADJACENT WALL SURFACES (TYPICAL).
6. WHERE CONNECTING CMU WALL HAS BEEN REMOVED, PATCH WALL TO MATCH EXISTING ADJACENT WALL SURFACES (TYPICAL).
7. 4" CMU INFILL WHERE BRICK VENEER WAS REMOVED.
8. TOOTH IN NEW CMU INTO EXISTING OPENING TO MATCH ADJACENT MASONRY SURFACES.
9. EXISTING EXPOSED CMU WALL CONSTRUCTION. PATCH, REPAIR AND TOOTH-IN TO MATCH COURSING BOND PATTERN OF WALL.
10. PATCH FLOOR AT NEW DOOR OPENING. INSTALL VCT FROM ATTIC STOCK.
11. SEMI-RECESSED EXTINGUISHER CABINET. — 6/A-501
12. PUSH PAD FOR ADA OPERATOR.
13. PROVIDE TRANSITION STRIP AT FLOOR FINISH TRANSITION.
14. CONCRETE CURB, 6"W x 6"H.
15. EXPANSION JOINT COVER AT INTERIOR WALL.
16. CONCRETE SLAB OVER EXPANDED FOAM INFILL. REFER TO STRUCTURAL DRAWINGS.
17. EXISTING LOCKERS TO REMAIN
18. INSTALL 1/4" DRYWALL OVER EXISTING WALL. EXTEND WALL DEVICES AS REQUIRED.
19. CONCRETE STOOP, PROVIDE SCORED JOINTS ON SURFACE TO ALIGN WITH CONCRETE SIDEWALK JOINTS, REFER TO STRUCTURAL DRAWINGS.
20. CASEWORK AND/OR MILLWORK (TYPICAL), REFER TO EQUIPMENT PLANS.
21. DASHED LINE INDICATES TYPICAL BULKHEAD, REFER TO SECTIONS AND REFLECTED CEILING PLANS. (ALL BULKHEADS ARE NOT INDICATED ON THIS PLAN)
22. CARD/FOB READER, REFER TO ELECTRICAL/TECHNOLOGY DRAWINGS.
23. ACCESSIBLE ELECTRIC WATER COOLER, REFER TO PLUMBING DRAWINGS.
24. CABINET HEATER, REFER TO MECHANICAL DRAWINGS.
25. ROOF CONDUCTOR, REFER TO PLUMBING DRAWINGS.
26. CONCRETE INFILL OVER EXISTING CONCRETE SUBFLOOR AT WOOD STAGE UNTIL LEVEL WITH ADJACENT SLAB
27. TRANSITION BETWEEN FACE OF BRICK AND GYPSUM BOARD, 1'-0" FROM CORNER OF ANGLED WALLS.
28. PATCH GYPSUM BOARD WALL TO MATCH ADJACENT SURFACES.
29. NEW METAL LOCKERS. (R)ED, (B)LUE, (G)REEN, INDICATES COLOR. TYPE "A". PROVIDE NEW CLOSURES AS REQUIRED FOR NEW CONSTRUCTION. REFER TO SHEET A-501.
30. ACCESSIBLE ELECTRIC WATER COOLER (BOTTLE FILLER ONLY), REFER TO PLUMBING DRAWINGS.
31. INFILL EXISTING RECESSED SLAB UNTIL LEVEL WITH ADJACENT SLAB. PREPARE FLOOR PER NOTE 3.
32. CAVITY INSULATION AND MASONRY TO CONTINUE THROUGH CANOPY PLENUM. SEAL INSULATION TIGHT TO PENETRATING CANOPY BEAMS WITH FOAM INSULATION. PROVIDE MEMBRANE FLASHING OVER TOP OF BEAMS EXPOSED IN BRICK CAVITY.
33. GYPSUM WALL COATING ON ENTIRE WALL (ON WALL ABOVE DOORS WHERE APPLICABLE).
34. DISPLAY WALL / MONITOR (TYP), REFER TO EQUIPMENT DRAWINGS.
35. ROLLING COUNTER DOOR. — 7/A-501
36. RETURN AIR GRILLE COVER. — 10/A-501
37. CHASE WALL WITH SOLID SURFACE TOP. — 9/A-501
38. INSTALL NEW 1 1/2" O.D. ANODIZED ALUMINUM HANDRAIL WITH ALUMINUM BRACKETS AT 35° ABOVE SLOPE OF RAMP AND EXTEND RAIL 12" PAST TOP AND BOTTOM OF RAMP AND RETURN ENDS TO WALL.
39. CONCRETE STOOP (SIZE SHOWN) WITH FROST WALL SURROUND. DOWEL 2 VERTICAL REBAR PER SIDE AND 2 BENT BARS AT THE TOP OF THE FOUNDATION WALL. — 15/A-501
40. FIRE EXTINGUISHER (WALL-MOUNTED).
41. CLEAN GLAZING THOROUGHLY. APPLY 3M VELLUM TO INTERIOR FACE OF GLAZING.
42. ADD CMU TO EXISTING CMU WALLS AND EXTEND WALL TO UNDERSIDE OF 2ND FLOOR DECK.
43. SPEAKER ROUGH-IN. — 1A/A-413
44. COLUMN ENCLOSURE — 5/A-502
45. GROUND FACE CMU TO 10FT AFF, WITH STANDARD CMU ABOVE.

AD-3

GIBRALTAR DESIGN
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PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

FIRST FLOOR KEY PLAN

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Email info@GibraltarDesign.com
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PROJECT 21-106
DATE 3/14/22
COORDINATED BY EJM
DRAWN BY EJM PCD
CHECKED BY EJM

JOSEPH P. BRIGGS REGISTERED ND. 11600109 STATE OF INDIANA ARCHITECT

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REVISIONS

MARK	DATE	ISSUED FOR
AD-3	4/11/22	ADDENDUM NO. 3

DRAWING

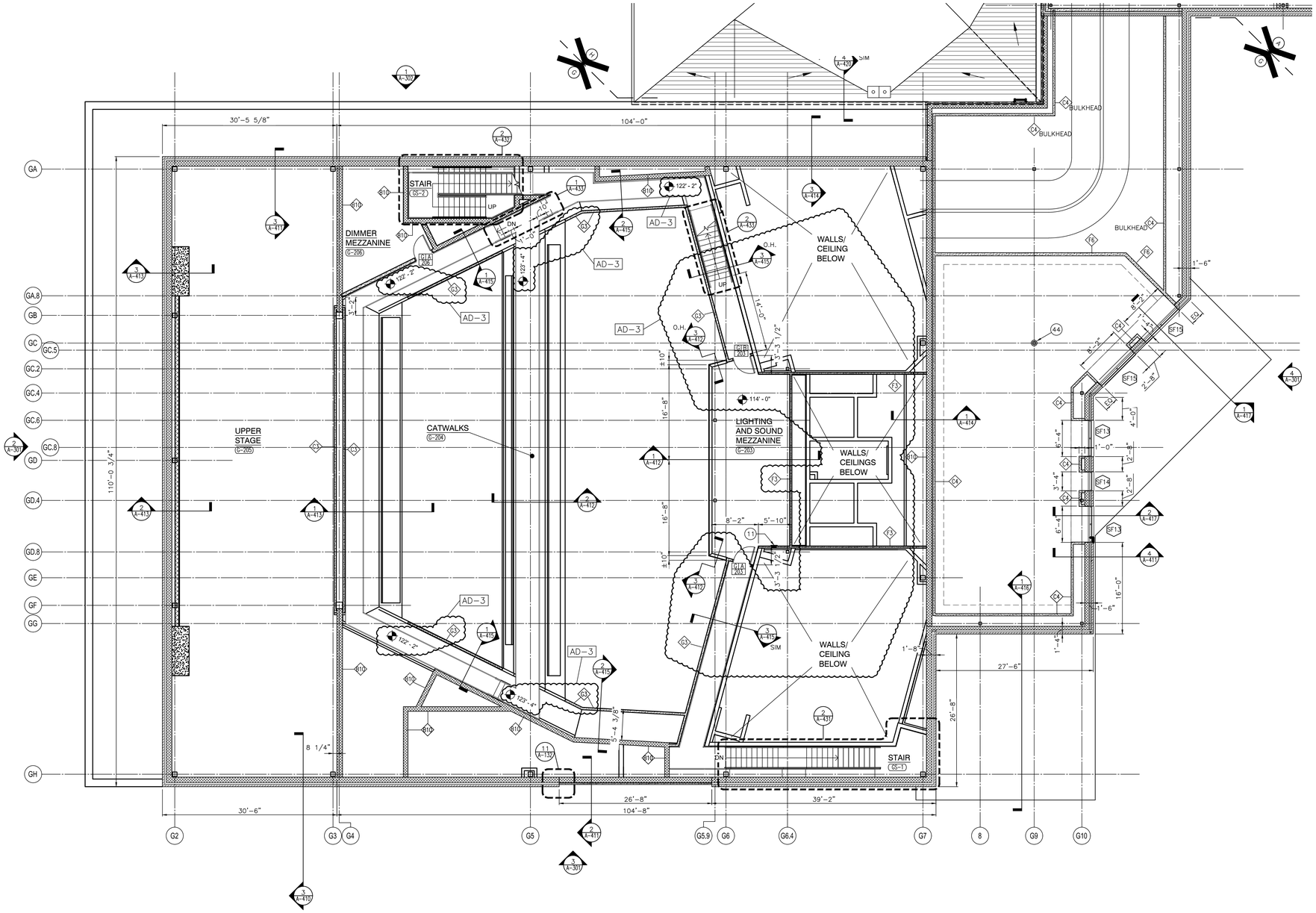
UNIT "G" ARCHITECTURAL FIRST FLOOR PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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SHEET G A-112

Monday, 4/11/2022 - 8:51 AM - LAST SAVED BY:EMCCAULEY
Y:\21-106 CROWN POINT CSC - WHEELER MIDDLE SCHOOL ADDITION AND RENOVATIONS\21-106 DRAWINGS\05 ARCH\A-112.DWG



UNIT "G" ARCHITECTURAL SECOND FLOOR PLAN

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

GENERAL PLAN NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO G-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" CONNECTING TO THE EXISTING CLASSROOM BUILDING AT 99'-6"). 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. 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.

K. REFER TO FINISH PLANS FOR LOCATION AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.

L. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSED, EXCEPT AT MASONRY BULKHEADS AND EXTERIOR WINDOW JAMBS.

M. REFER TO DEMOLITION SHEETS FOR ADDITIONAL PATCHING AND REPAIR WORK.

PLAN LEGEND:

INDICATES STOREFRONT, CURTAIN WALL, OR WINDOW SYSTEM. REFER TO A-600 SERIES DRAWINGS FOR ELEVATIONS AND DETAILS.

INDICATES WALL TYPES REFER TO A-120 FOR WALL THICKNESS, HEIGHT, AND COMPOSITION. (AD-2)

PLAN NOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

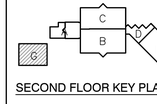
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7. 4" CMU INFILL WHERE BRICK VENEER WAS REMOVED.
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13. PROVIDE TRANSITION STRIP AT FLOOR FINISH TRANSITION.
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36. RETURN AIR GRILLE COVER. (10/A-501)
37. CHASE WALL WITH SOLID SURFACE TOP. (9/A-501)
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43. SPEAKER ROUGH-IN. (1A/A-413)
44. COLUMN ENCLOSURE (5/A-862)

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PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA



SECOND FLOOR KEY PLAN

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PROJECT 21-106
DATE 3/14/22
COORDINATED BY EJM
DRAWN BY EJM PCD
CHECKED BY EJM

JOSEPH P. BRIGGS REGISTERED ND. 11600109 STATE OF INDIANA ARCHITECT

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MARK	DATE	ISSUED FOR
AD-3	4/11/22	ADDENDUM NO. 3

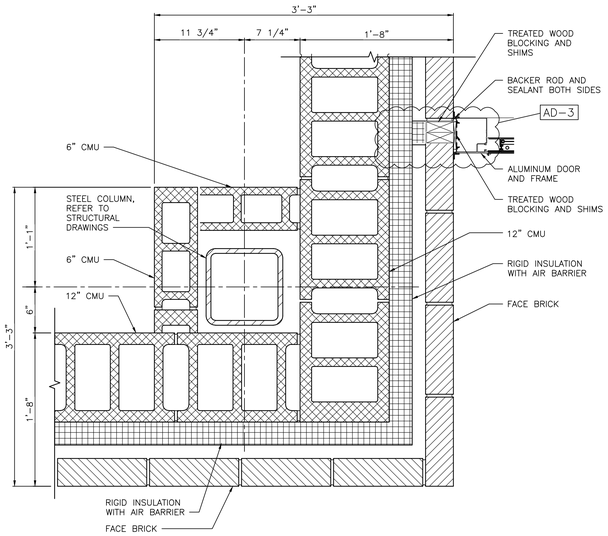
DRAWING
UNIT "G" ARCHITECTURAL SECOND FLOOR PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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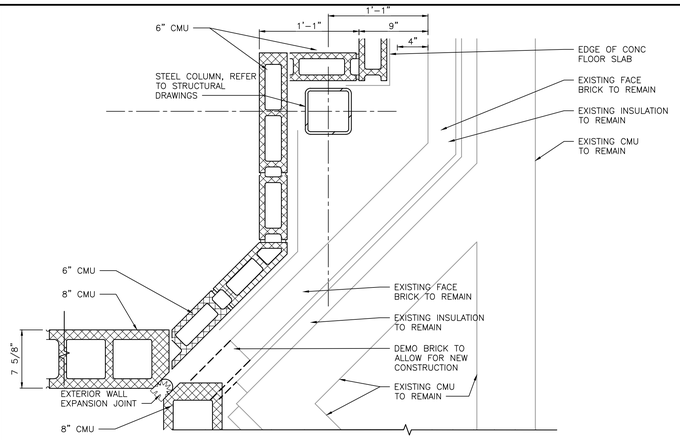
SHEET
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A-113

Friday, 4/8/2022 - 5:02 PM - LAST SAVED BY:PDEGROTHY
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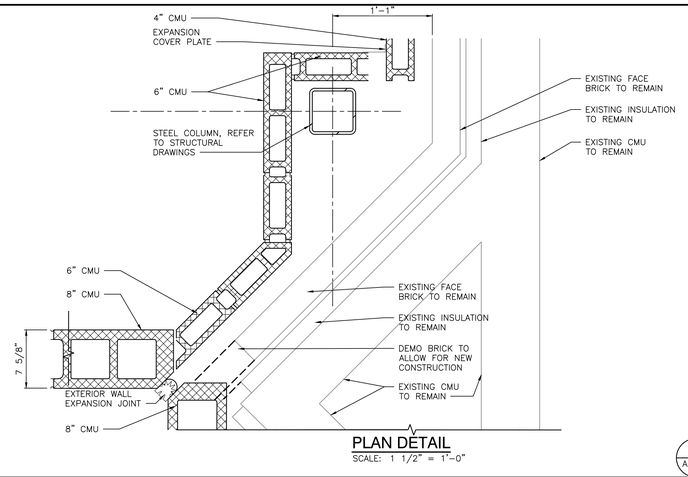
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9 / A-131



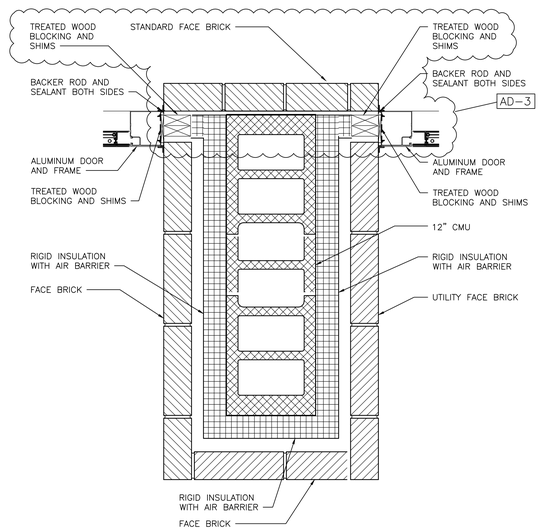
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6 / A-131



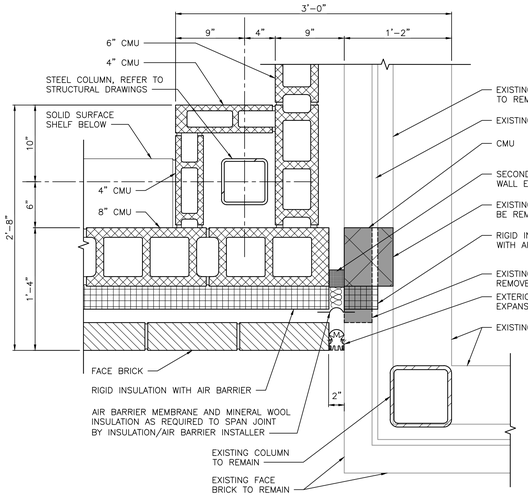
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3 / A-131



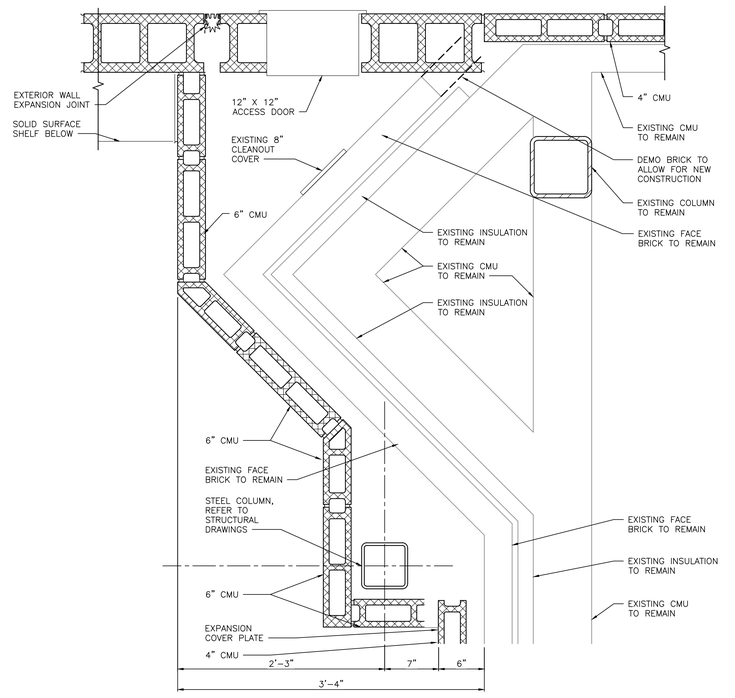
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8 / A-131



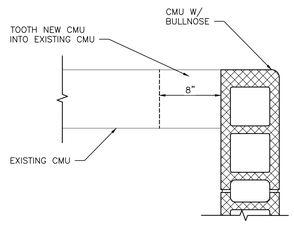
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5 / A-131



PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

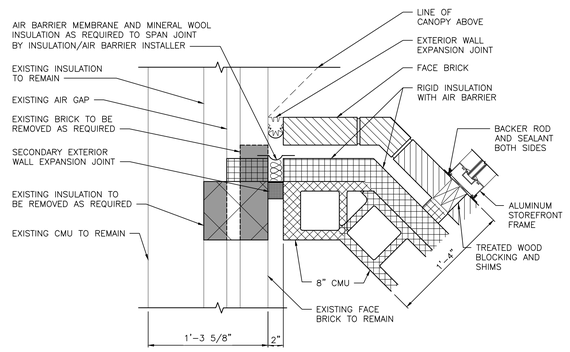
2 / A-131



TYPICAL NEW CMU TO EXISTING CMU AT 90° CORNER

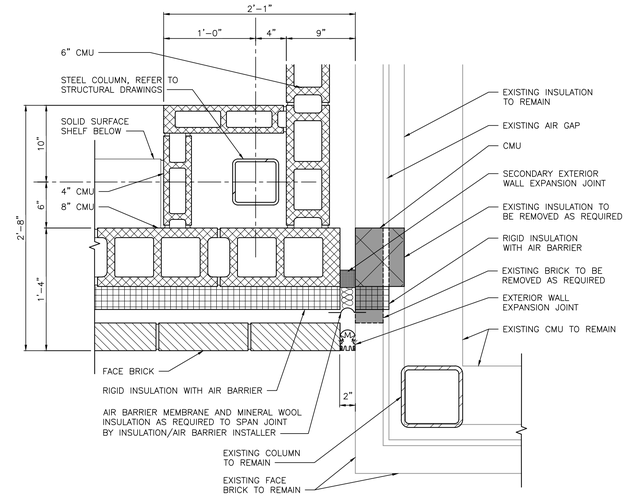
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7 / A-131



PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

4 / A-131



PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

1 / A-131

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DESIGN
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PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

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PROJECT 21-106
DATE 3/14/22
COORDINATED BY EJM
DRAWN BY EJM PCD
CHECKED BY EJM

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

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REVISIONS

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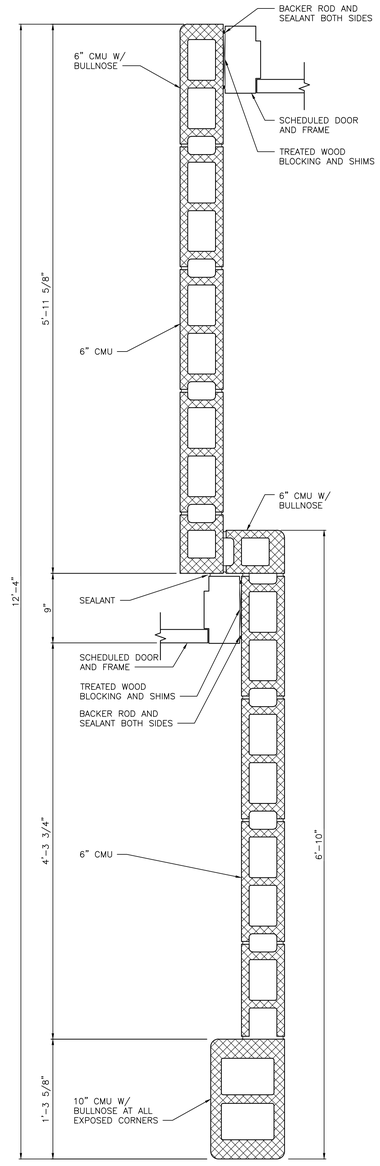
DRAWING
PLAN DETAILS

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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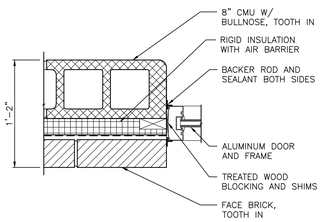
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A-131

Monday, 4/11/2022 - 9:47 AM - LAST SAVED BY:EMCCAULEY
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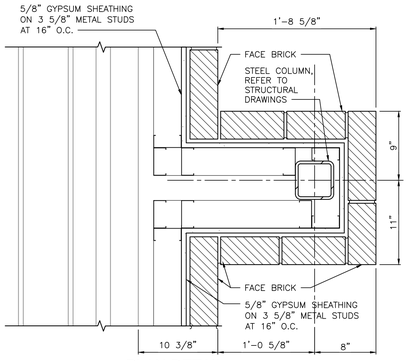
PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

13 / A-132



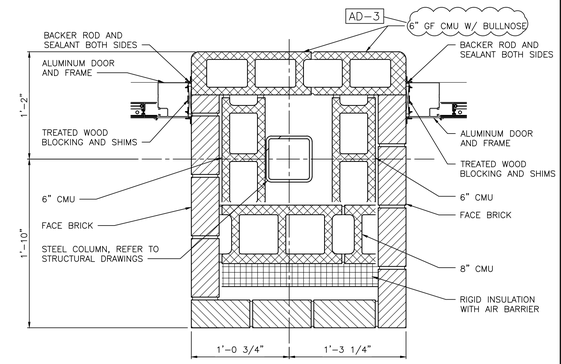
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11 / A-132



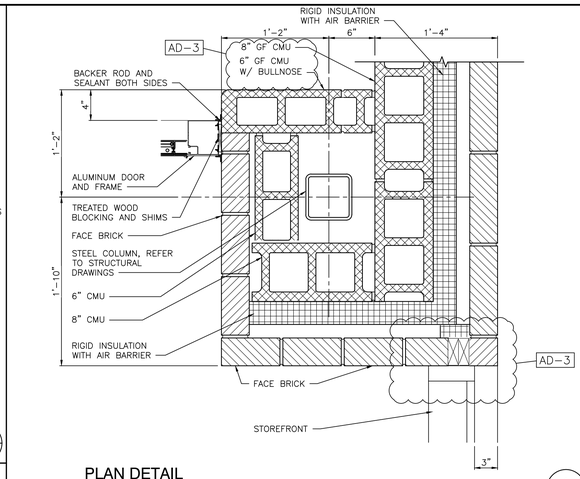
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10 / A-132



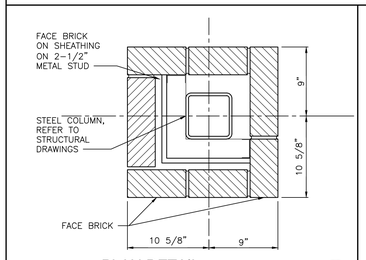
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SCALE: 1 1/2" = 1'-0"

7 / A-132



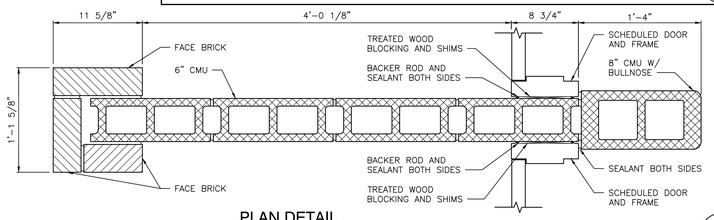
PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

6 / A-132



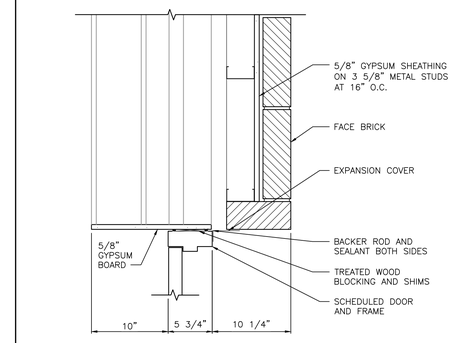
PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

5 / A-132



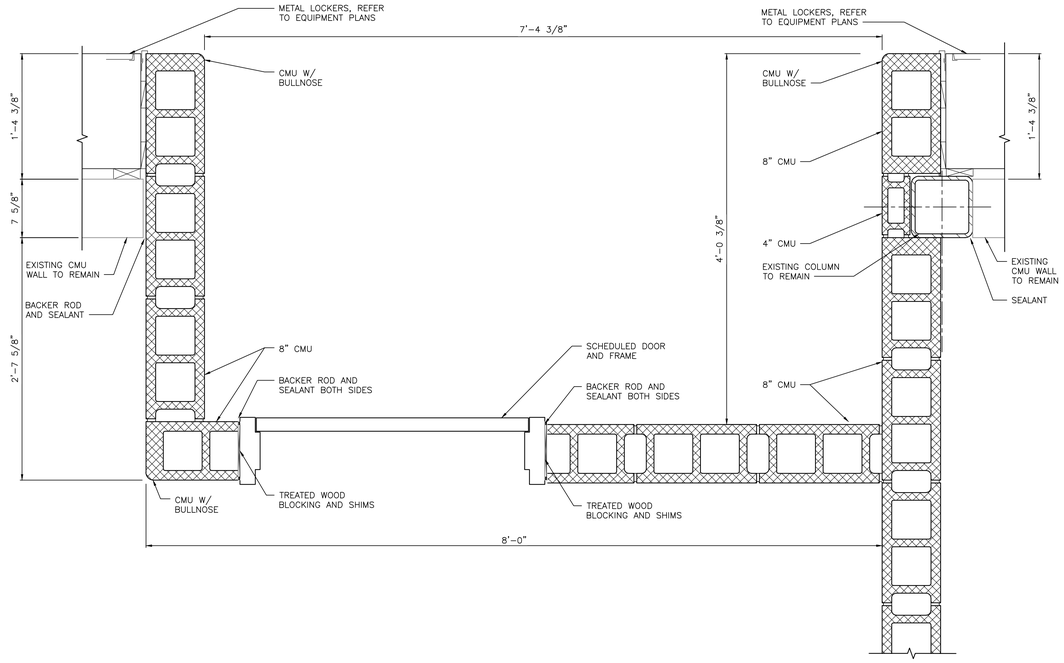
PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

4 / A-132



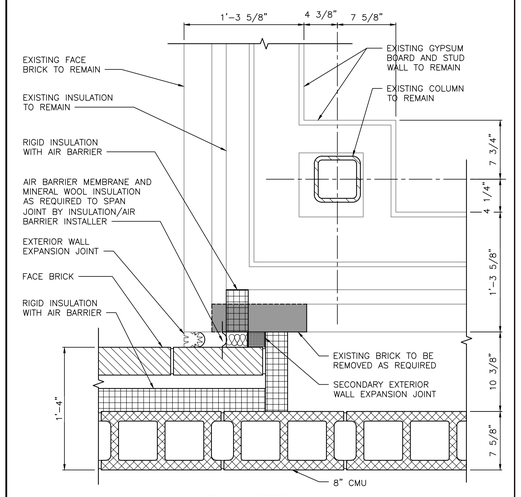
PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

9 / A-132



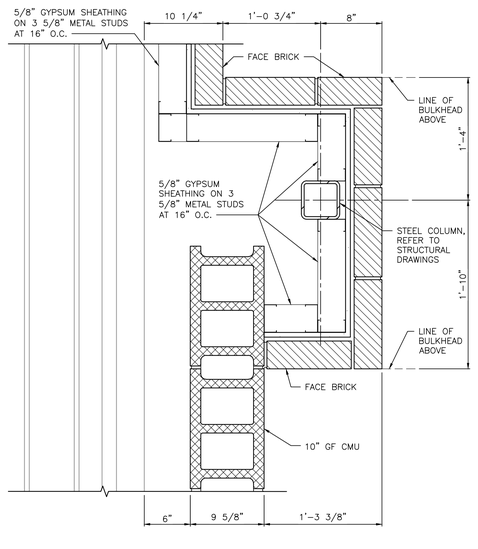
PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

3 / A-132



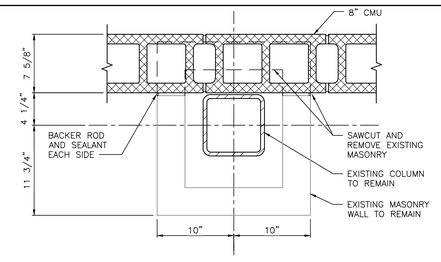
PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

12 / A-132



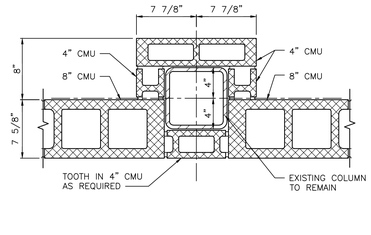
PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

8 / A-132



PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

2 / A-132



PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

1 / A-132

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

GIBRALTAR DESIGN
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PROJECT 21-106
DATE 3/14/22
COORDINATED BY EJM
DRAWN BY EJM PCD
CHECKED BY EJM

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

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REVISIONS

MARK	DATE	ISSUED FOR
AD-3	4/11/22	ADDENDUM NO. 3

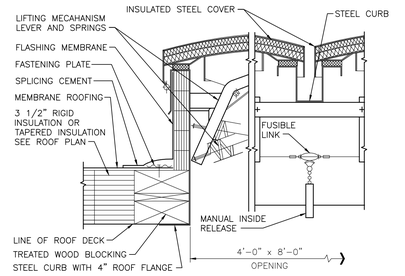
DRAWING
PLAN DETAILS

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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SHEET
A-132

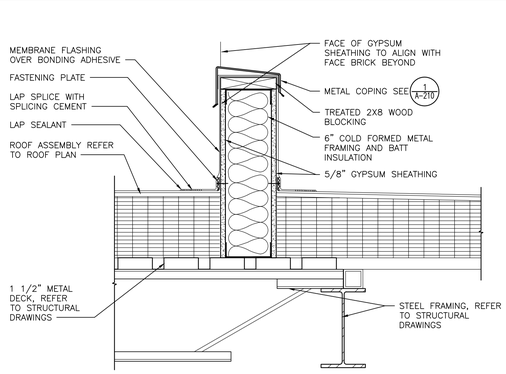
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Y:\21-106 CROWN POINT CSC - WHEELER MIDDLE SCHOOL ADDITION AND RENOVATIONS\21-106 DRAWINGS\05 ARCH\A-132.DWG



AUTOMATIC SMOKE VENTILATOR FLASHING

SCALE: 3" = 1'-0"

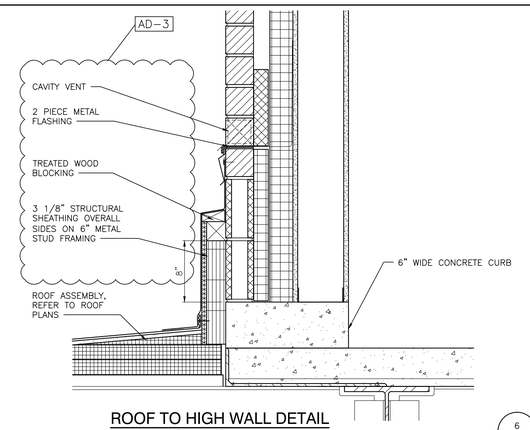
3 / A-211



ROOF DETAIL

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

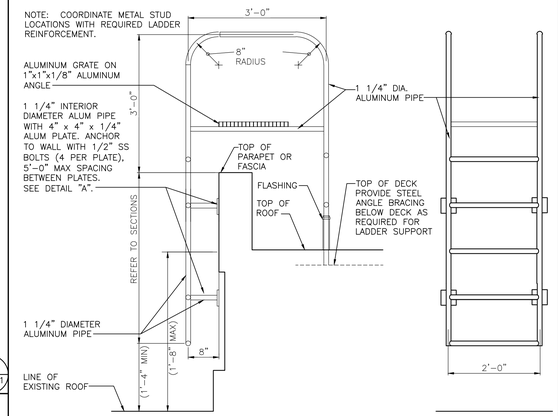
9 / A-211

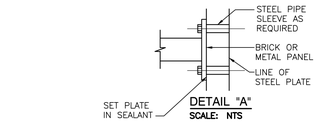


ROOF TO HIGH WALL DETAIL

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

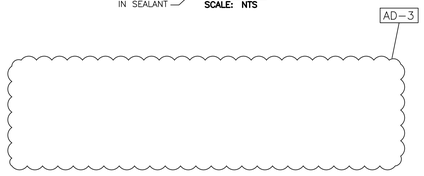
6 / A-211





DETAIL "A"

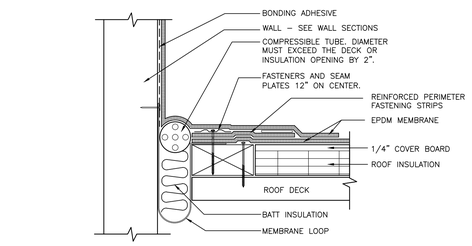
SCALE: NTS



EXTERIOR ALUMINUM LADDER

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

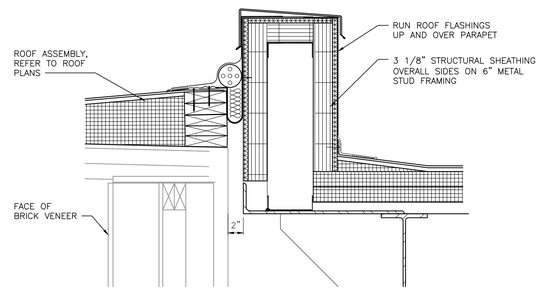
2 / A-211



EXPANSION JOINT AT WALL

SCALE: 3" = 1'-0"

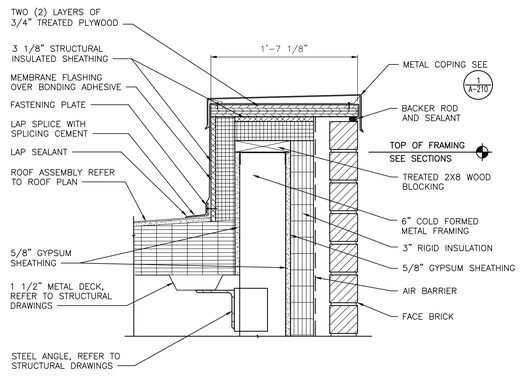
8 / A-211



EXISTING TO NEW ROOF DETAIL

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

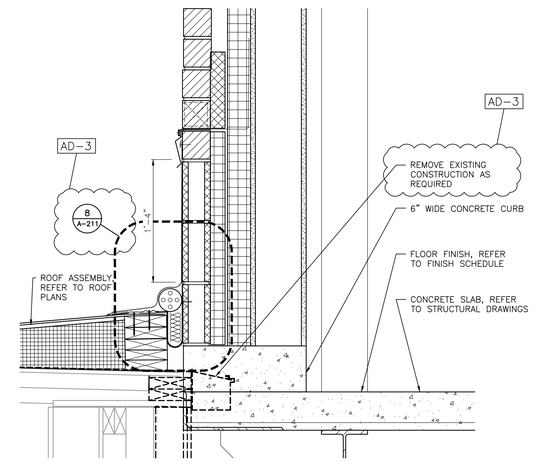
5 / A-211



ROOF DETAIL

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

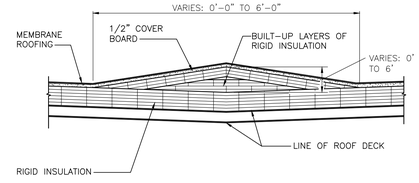
7 / A-211



ROOF TO HIGH WALL DETAIL

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

4 / A-211



NOTES
1. CRICKETS AND SADDLES SHALL HAVE A MINIMUM OF TWO TIME THE SLOPE OF THE PRIMARY TAPERED SYSTEM OR STRUCTURAL SLOPE.
2. THE RATIO OF A CRICKET'S WIDTH TO LENGTH SHALL BE NO LESS THAN 1 TO 3.

ROOF DRAINAGE SADDLE

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

1 / A-211

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PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

GIBRALTAR DESIGN
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PROJECT 21-106
DATE 3/14/22
COORDINATED BY GWT
DRAWN BY GWT PCD
CHECKED BY GWT

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

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REVISIONS

MARK	DATE	ISSUED FOR
AD-3	4/11/22	ADDENDUM NO. 3

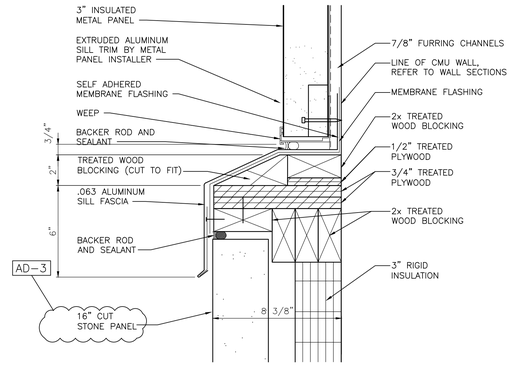
DRAWING
ROOF DETAILS

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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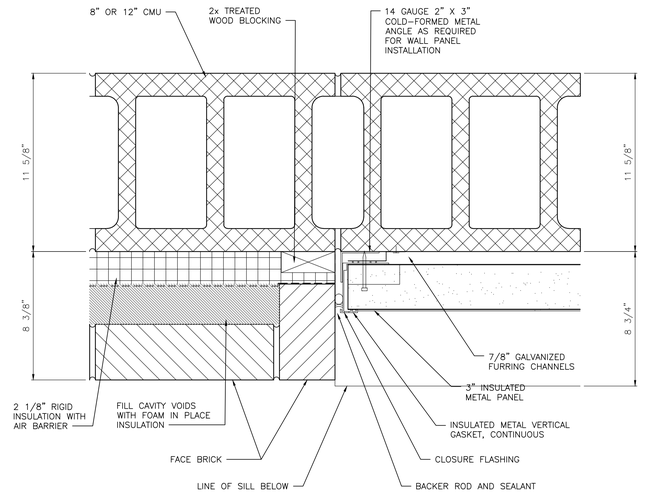
SHEET
A-211

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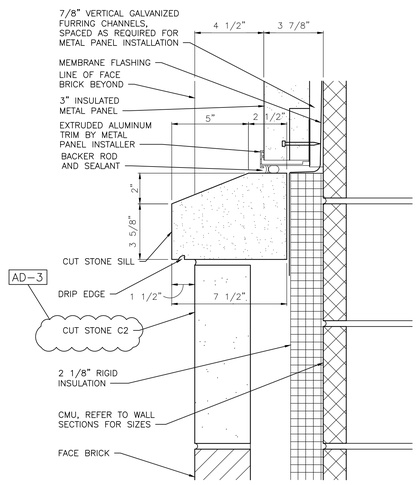
WALL FACE FINISH TRANSITION DETAIL
SCALE: 3" = 1'-0"

3 / A-212



PLAN DETAIL
SCALE: 3" = 1'-0"

2 / A-212



CUT STONE DETAIL
SCALE: 3" = 1'-0"

1 / A-212

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

GIBRALTAR DESIGN
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PROJECT 21-106
DATE 3/14/22
COORDINATED BY EJM
DRAWN BY GWT PCD
CHECKED BY EJM

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

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REVISIONS

MARK	DATE	ISSUED FOR
AD-3	4/11/22	ADDENDUM NO. 3

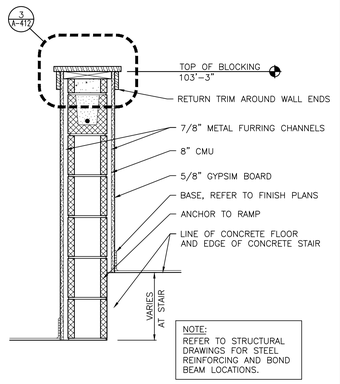
DRAWING
ROOF DETAILS

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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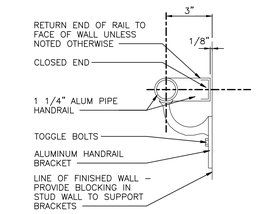
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A-212

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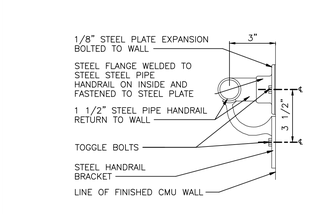
LOW WALL SECTION
SCALE: 1" = 1'-0"

14 A-433



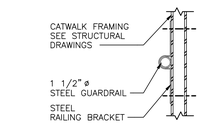
ALUMINUM HANDRAIL DETAIL
SCALE: 3" = 1'-0"

13 A-433



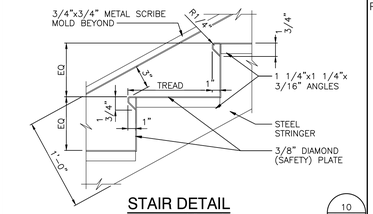
STEEL HANDRAIL DETAIL
SCALE: 3" = 1'-0"

12 A-433



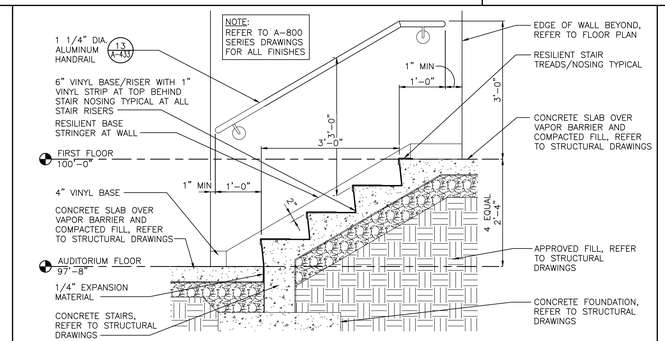
STEEL RAILING DETAIL
SCALE: 1 1/2" = 1'-0"

11 A-433



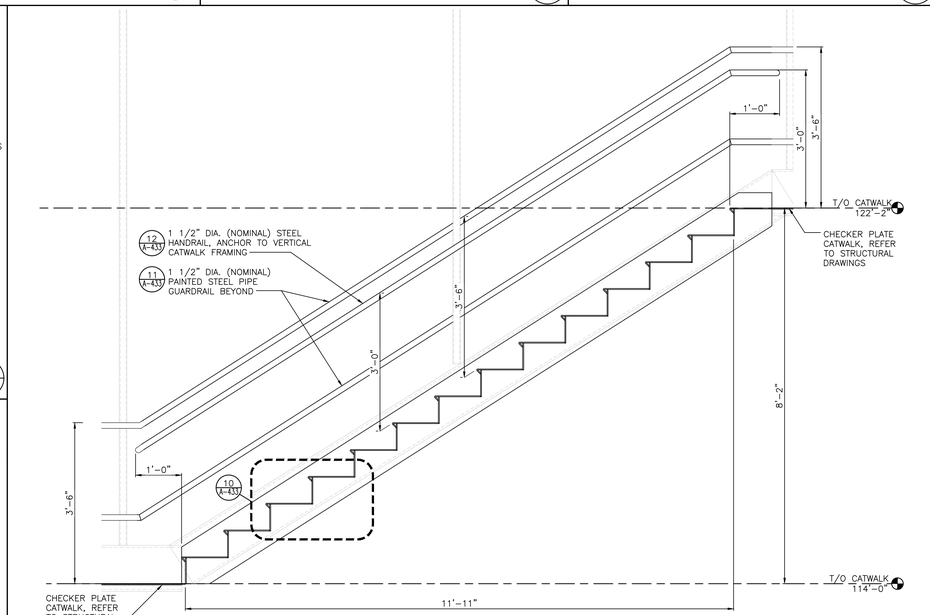
STAIR DETAIL
SCALE: 1 1/2" = 1'-0"

10 A-433



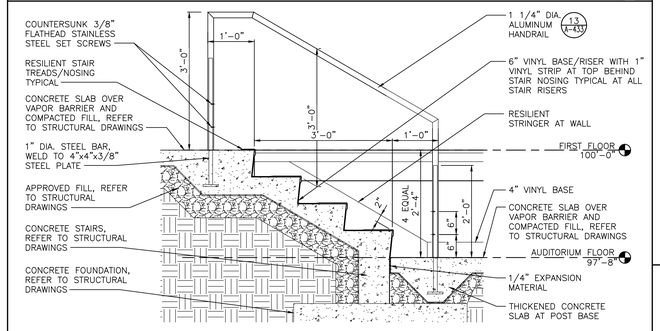
STAIR SECTION
SCALE: 3/4" = 1'-0"

9 A-433



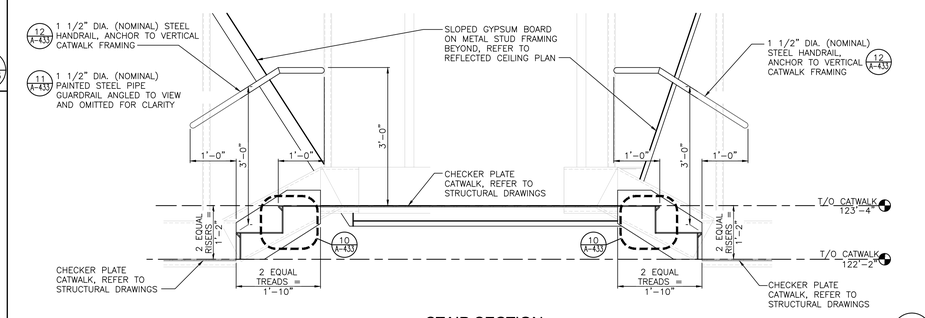
STAIR SECTION
SCALE: 3/4" = 1'-0"

4 A-433



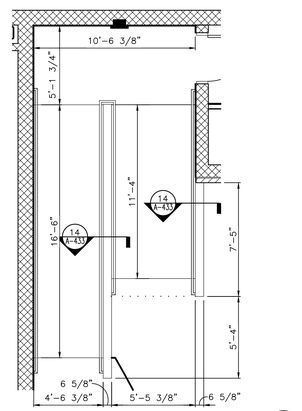
STAIR SECTION
SCALE: 3/4" = 1'-0"

8 A-433



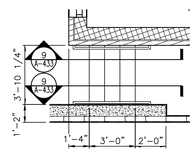
STAIR SECTION
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3 A-433



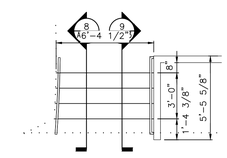
ENLARGED RAMP PLAN
SCALE: 1/4" = 1'-0"

7 A-433



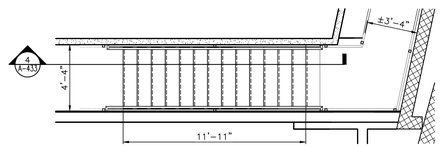
ENLARGED STAIR PLAN
SCALE: 1/4" = 1'-0"

6 A-433



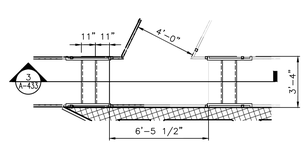
ENLARGED STAIR PLAN
SCALE: 1/4" = 1'-0"

5 A-433



ENLARGED STAIR PLAN
SCALE: 1/4" = 1'-0"

2 A-433



ENLARGED STAIR PLAN
SCALE: 1/4" = 1'-0"

1 A-433

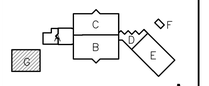
PROVIDED DETAIL MARKS AND SHEET DETAIL NUMBERS

AD-3

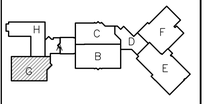
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PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA



SECOND FLOOR KEY PLAN



FIRST FLOOR KEY PLAN

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PROJECT 21-106
DATE 3/14/22
COORDINATED BY EJM
DRAWN BY PCB
CHECKED BY EJM

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

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REVISIONS

MARK	DATE	ISSUED FOR
AD-3	4/11/22	ADDENDUM NO. 3

DRAWING
ENLARGED STAIR PLANS AND SECTIONS

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

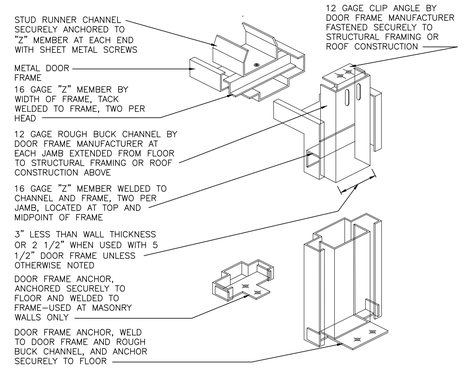
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SHEET A-433

Monday, 4/11/2022 - 1:04 PM - LAST SAVED BY:EMCCAULEY
Y:\21-106 CROWN POINT CSC - WHEELER MIDDLE SCHOOL ADDITION AND RENOVATIONS\21-106 DRAWINGS\05 ARCH\A-433.DWG

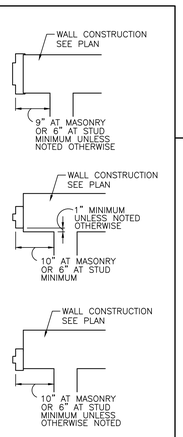
DOOR NOTES

1. JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. SEE ROOM FINISH SCHEDULE FOR WALL FINISHES.
2. SEAL ALL JAMBS AND HEADS ONLY WHERE FRAMES MEET EXPOSED MASONRY.
3. PROVIDE A SCRIBE MOLD AT ALL EXTERIOR DOORS AND WHERE OTHERWISE NOTED. SCRIBE MOLD TO BE 3/8" X 3/4" METAL AT EXTERIOR OF METAL FRAMES AND AT BOTH SIDES OF ALUMINUM FRAMES. SET SCRIBE MOLDS IN SEALANT.
4. PROVIDE GLAZING AND GLASS STOPS AS REQUIRED.
5. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS, BOTH NEW AND EXISTING.
6. NOTE: 1/4" SHIM SPACE IS NOT SHOWN ON DOOR FRAME ELEVATIONS FOR ALUMINUM STOREFRONT. TAKE THESE DIMENSIONS INTO ACCOUNT AND ADJUST DIMENSIONS ACCORDINGLY.
7. WHERE A 1 1/2" WIDE ALUMINUM STOREFRONT IS TO REPLACE 5 1/2" HOLLOW METAL FRAME, POSITION FRAME AND 3/4" X 3/4" X 1/8" ALUMINUM TRIM ANGLES TO COVER ORIGINAL LOCATION.



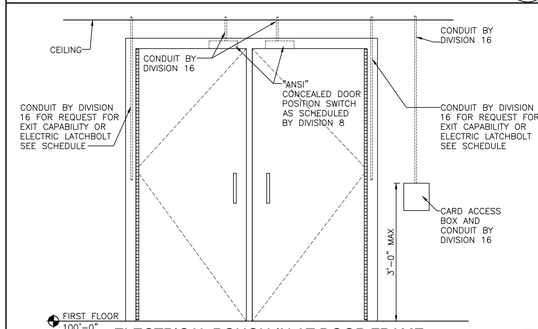
TYPICAL HEAD & JAMB ANCHORAGE
SCALE: NTS

(4 / A-601)



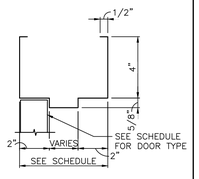
FRAME MOUNTING DETAILS
SCALE: NTS

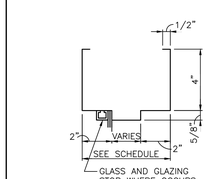
(3 / A-601)

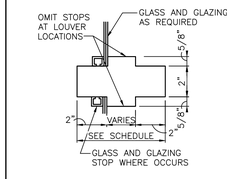


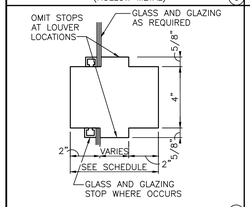
ELECTRICAL ROUGH-IN AT DOOR FRAME
SCALE: 3/4" = 1'-0"

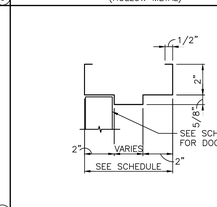
(2 / A-601)

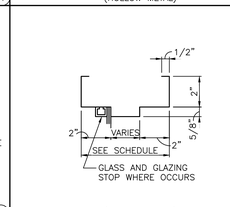




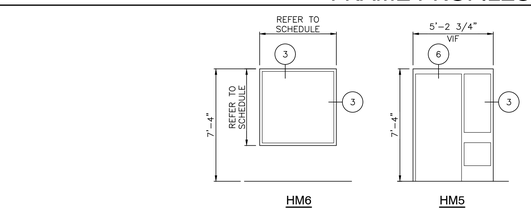








FRAME PROFILES



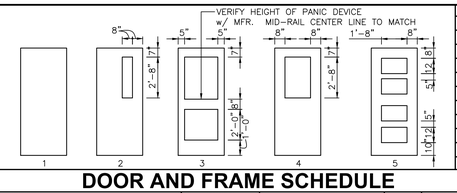
HOLLOW METAL ELEVATIONS (HM)
SCALE: 1/4" = 1'-0"

(1 / A-601)

FIRST FLOOR

GLASS SCHEDULE

MK	GLASS TYPES	MK	GLASS TYPES
A	1/4" TEMPERED (CLEAR)	F	1/2" OR 5/8" ACOUSTIC LAMINATED SAFETY GLASS
B	1" INSUL. GLASS (TINTED)	G	1/2" LAMINATED SAFETY GLASS (ONE WAY MIRROR TINT)
C	1" INSUL. GLASS (CLEAR)	H	OUTER LAYER TYPE "F", 1/2" SEALED AIR SPACE, AND INNER LAYER TYPE "F" (SINGLE UNIT – CLEAR)
D	1" INSUL. SPANDREL GLASS (TINTED)	T	1" INSUL. TRANSLUCENT GLASS (TINTED)
E	1/4" LAMINATED SAFETY GLASS (CLEAR)		



LOUVER SCHEDULE

MK	LOUVER SIZE

DOOR AND FRAME SCHEDULE

NO.	DESCRIPTION	TYPE	DOOR SIZE (WxH) (INCHES)	MATERIAL	LOU	GLASS DOOR	GLASS SIDE LGT	GLASS TRA	FRAME MAT'L	FRAME WIDTH	FRAME ELEV	LABEL	HARDWARE EXIT DEVICE	HARDWARE CLOSER	NOTES
A 103–A	SINGLE	5	36 x 84	WD		A			HM	8 3/4"	HM2				
A 103–B	AL SINGLE	3	36 x 86	AL		B	B		AL	4 1/2"	SF12				
A 107–A	AL SINGLE	3	36 x 86	AL		B	B		AL	4 1/2"	SF12				
A 109–A	DOUBLE	2	PR 44 x 84	WD		E			HM	8 3/4"	HM4				
A 109–B	SINGLE	2	44 x 84	WD		E			HM	8 3/4"	HM4				
A 110–A	SINGLE	5	36 x 84	WD		A			HM	8 3/4"	HM2				
A 111–A	SF DOUBLE	3	PR 36 x 86	AL		E	E	E	AL	4 1/2"	SF2				
A 111–B	SF DOUBLE	3	PR 36 x 86	AL		E	E	E	AL	4 1/2"	SF2				
A 111–C	SF DOUBLE	3	PR 36 x 86	AL		E	E	E	AL	4 1/2"	SF2				
A 112–A	SF DOUBLE	3	PR 36 x 86	AL		C	C	C	AL	4 1/2"	SF1				
A 112–B	SF DOUBLE	3	PR 36 x 86	AL		C	C	C	AL	4 1/2"	SF1				
A 112–C	SF DOUBLE	3	PR 36 x 86	AL		C	C	C	AL	4 1/2"	SF1				
A 113–A	SINGLE	1	36 x 84	WD					HM	6 3/4"	HM2				
A 113A–A	SINGLE	1	36 x 84	WD					HM	6 3/4"	HM2	AD–1			
A 116–A	SINGLE	1	36 x 84	WD					HM	6 3/4"	HM2				
A 117–A	SINGLE	1	36 x 84	WD					HM	6 3/4"	HM2				
C 113–A	SINGLE	5	36 x 84	WD		A			HM	8 3/4"	HM2				
C 115–A	SINGLE	5	36 x 84	WD		A			HM	8 3/4"	HM2				
C 116–A	SINGLE	5	36 x 84	WD		A			HM	8 3/4"	HM2				
C 117–A	SINGLE	5	36 x 84	WD		A			HM	8 3/4"	HM2				
C 118–A	SINGLE	2	36 x 84	WD		A			HM	8 3/4"	HM2				
C 127–A	SINGLE	1	36 x 84	WD					HM2	8 3/4"	HM2				
C 127–B							A		HM	8 3/4"	HM6	AD–2			2'–0"x5'–4" FRAME
D 106–A	SINGLE	2	36 x 84	WD		A			HM	6"	HM1				
D 110–A	SINGLE	5	42 x 84	WD		A			HM	8 3/4"	HM2	AD–1			
D 112–A							A		HM	6"	HM6	AD–2			4'–0"x4'–0" FRAME
D 118–A	SINGLE	2	36 x 84	WD		A			HM	6"	HM1				
G 101–A	SF DOUBLE	3	PR 36 x 86	AL		C	C	C	AL	4 1/2"	SF7				
G 101–B	SF DOUBLE	3	PR 36 x 86	AL		C	C	C	AL	4 1/2"	SF7				
G 101–C	SF DOUBLE	3	PR 36 x 86	AL		C	C	C	AL	4 1/2"	SF8				
G 102–A	SF DOUBLE	3	PR 36 x 86	AL		E	E	E	AL	4 1/2"	SF7				
G 102–B	SF DOUBLE	3	PR 36 x 86	AL		E	E	E	AL	4 1/2"	SF7				
G 102–C	SF DOUBLE	3	PR 36 x 86	AL		E	E	E	AL	4 1/2"	SF8				
G 103–A	SF DOUBLE	3	PR 36 x 86	AL		C	C	C	AL	4 1/2"	SF4				
G 103–B	SF DOUBLE	3	PR 36 x 86	AL		C	C	C	AL	4 1/2"	SF4				
G 103–C	SF DOUBLE	3	PR 36 x 86	AL		C	C	C	AL	4 1/2"	SF4				
G 104–A	SF DOUBLE	3	PR 36 x 86	AL		E	E	E	AL	4 1/2"	SF5				
G 104–B	SF DOUBLE	3	PR 36 x 86	AL		E	E	E	AL	4 1/2"	SF5				
G 104–C	SF DOUBLE	3	PR 36 x 86	AL		E	E	E	AL	4 1/2"	SF5				
G 106–A	SF DOUBLE	12	PR 48 x 94	AL		B			AL	4 1/2"	SF6				
G 106–B	SF DOUBLE	3	PR 36 x 86	AL		C	C	C	AL	4 1/2"	SF3				
G 126–A	SINGLE	1	36 x 84	WD					HM	8 3/4"	HM2				
G 127–A	SINGLE	2	36 x 84	WD		A			HM	8 3/4"	HM2				
G 127–B	SINGLE	2	36 x 84	WD		A			HM	8 3/4"	HM2				
G 128–A	DOUBLE	1	PR 36 x 84	WOOD					HM	8 3/4"	HM2				
G 129–A	DOUBLE	1	PR 36 x 84	WOOD					HM	8 3/4"	HM2				
G 130–A	SINGLE	1	36 x 84	WD					HM	8 3/4"	HM2				
G 131–A	DOUBLE	1	PR 36 x 84	WOOD					HM	8 3/4"	HM2				
G 132–A	DOUBLE	1	PR 36 x 84	WOOD					HM	8 3/4"	HM2				
G 133–A	SINGLE	2	36 x 84	WD		A			HM	8 3/4"	HM2				
G 133–B	SINGLE	2	36 x 84	WD		A			HM	8 3/4"	HM2				
G 134–A	SINGLE	1	36 x 84	WD					HM	8 3/4"	HM2				
G 135–A	DOUBLE	1	PR 36 x 84	WOOD					HM	8 3/4"	HM2				
G 135–B	DOUBLE	1	PR 36 x 84	WOOD					HM	8 3/4"	HM2				
G 135–C	DOUBLE	1	PR 36 x 84	WOOD					HM	8 3/4"	HM2				

SECOND FLOOR

DOOR AND FRAME SCHEDULE

NO.	DESCRIPTION	TYPE	DOOR SIZE (WxH) (INCHES)	MATERIAL	LOU	GLASS DOOR	GLASS SIDE LGT	GLASS TRA	FRAME MAT'L	FRAME WIDTH	FRAME ELEV	LABEL	HARDWARE EXIT DEVICE	HARDWARE CLOSER	NOTES
G 136–A	SINGLE	1	36 x 84	WD					HM	8 3/4"	HM2				
G 138–A	SINGLE	1	36 x 84	WD					HM	8 3/4"	HM2				
G 139–A	DOUBLE	1	PR 48 x 94	WOOD					HM	8 3/4"	HM3				
G 139–B	DOUBLE	1	PR 48 x 94	WOOD					HM	8 3/4"	HM3				
G 139–C	DOUBLE	1	PR 36 x 84	WOOD					HM	8 3/4"	HM2				
G 140–A	SF DOUBLE	1	PR 36 x 86	AL					AL	4 1/2"	SF6				
G 141–A	DOUBLE	1	PR 36 x 84	WOOD					HM	8 3/4"	HM2				
H 104–A	SINGLE	2	36 x 84	WD		A			HM	6"	HM1				
H 105–A	DOUBLE	1	PR 36 x 84	WD					HM	6"	HM1				
H 105–B	DOUBLE	1	PR 36 x 84	WD					HM	6"	HM1				
H 105–C	SF11	2	42(18) x 86	AL		B			AL	4 1/2"	SF11	AD–3			
H 106–A	SINGLE	1	36 x 84	WD					HM	6"	HM1				
H 107–A	SINGLE	2	36 x 84	WD		A			HM	6"	HM1				
H 108–A	SINGLE	2	36 x 84	WD		A			HM	6"	HM1				
H 109–A	SINGLE	1	36 x 84	WD					HM	6"	HM1				
H 109–B	SINGLE	1	36 x 84	WD					HM	6"	HM1				
H 110–A	SINGLE	1	36 x 84	WD					HM	6"	HM1				
H 110–B	SINGLE	1	36 x 84	WD					HM	6"	HM1				
H 111–A	SINGLE	2	36 x 84	WD		A			HM	6"	HM1				
H 111–B	SINGLE	2	36 x 84	WD		A			HM	6"	HM1				
H 112–A	OFFICE	1	36 x 84	WD					HM	5 3/4"	HM1				
H 113–A	OFFICE	1	36 x 84	WD					HM	5 3/4"	HM1				
H 119–A	DOUBLE	2	PR 46 x 84	WD		E			HM	8 3/4"	HM4	AD			
H 119–B	DOUBLE	2	PR 46 x 84	WD		E			HM	8 3/4"	HM4				
H 120–A	SINGLE	2	36 x 84	WD		A			HM	6"	HM1				
H 120–B	SINGLE	2	36 x 84	WD		A			HM	6"	HM1				
H 121–A	SINGLE	1	36 x 84	WD					HM	6"	HM1				
H 122–A	SINGLE	2	36 x 84	WD		A			HM	6"	HM1				
H 122–B							A		HM	6"	HM6	AD–2			2'–8"x3–4" FRAME
H 125–A	SINGLE	2	36 x 84	WD		A			HM	6"	HM1				
H 134–A	SINGLE	1	36 x 84	WD		A	A		HM	5 3/4"	HM5				
H 135–A	SINGLE	2	36 x 84	WD		A			HM	8 3/4"	HM2				
H 135–B	SINGLE	2	36 x 84	WD		A			HM	8 3/4"	HM2				
H 136–A	SINGLE	1	36 x 84	WD		A	A		HM	5 3/4"	HM5				

AD–1 AD–3 AD–3

DOOR AND FRAME SCHEDULE

NO.	DESCRIPTION	TYPE	DOOR SIZE (WxH) (INCHES)	MATERIAL	LOU	GLASS DOOR	GLASS SIDE LGT	GLASS TRA	FRAME MAT'L	FRAME WIDTH	FRAME ELEV	LABEL	HARDWARE EXIT DEVICE	HARDWARE CLOSER	NOTES
A 208–A	DOUBLE	2	PR 48 x 84	WD		E			HM	8 3/4"	HM4		AD–1		
A 209–A	SINGLE	5	36 x 84	WD		A			HM	8 3/4"	H2				
A 210–A	SINGLE	5	36 x 84	WD		A			HM	8 3/4"	H2				
A 211–A	DOUBLE	1	PR 42 x 84	WD					HM	8 3/4"	H2				1HR
A 211–B	SF FRP2	1	PR 48 x 86	FRP					AL	6"	SF6				
C 205–A	SINGLE	1	36 x 84	WD					HM	6"	HM1	AD–3			
C 205–B		AD–3				F			HM	6"	HM6				4'–4"x4'–0" FRAME
C 205–C						F			HM	6"	HM6		AD–2		4'–4"x4'–0" FRAME
C 206–A	SINGLE	1	48 x 84	WD					HM	10 1/4"	HM1				ACOUSTIC
C 206–B	SINGLE	1	36 x 84	WD					HM	10 1/4"	HM1				ACOUSTIC
C 206–C						H			HM	10 1/4"	HM6		AD–2		8'–8"x4'–0" FRAME W/ VERTICAL MULLION
D 205–A	SINGLE	2	36 x 84	WD		A			HM	8 3/4"	HM2				
D 205–B						A			HM	8 3/4"	HM6		AD–2		2'–0"x5'–4" FRAME
D 207–A	SINGLE	2	36 x 84	WD		A			HM	8 3/4"	HM2				
D 207–B									HM	8 3/4"	HM6		AD–2		2'–0"x5'–4" FRAME
G 203–A	SINGLE	2	36 x 84	WD		A			HM	6"	HM1				
G 203–B	SINGLE	2	36 x 84	WD		A			HM	6"	HM1				
G 206–A	SINGLE	1	36 x 84	WD		A			HM	6"	HM1				

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

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PROJECT 21–106
DATE 3/14/22
COORDINATED BY EJM
DRAWN BY EJM PCD
CHECKED BY EJM

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

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REVISIONS

MARK	DATE	ISSUED FOR
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AD–2	4/6/22	ADDENDUM NO. 2
AD–3	4/11/22	ADDENDUM NO. 3

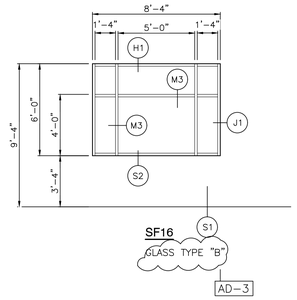
DRAWING
DOOR AND FRAME SCHEDULE, PROFILES, ELEVATIONS

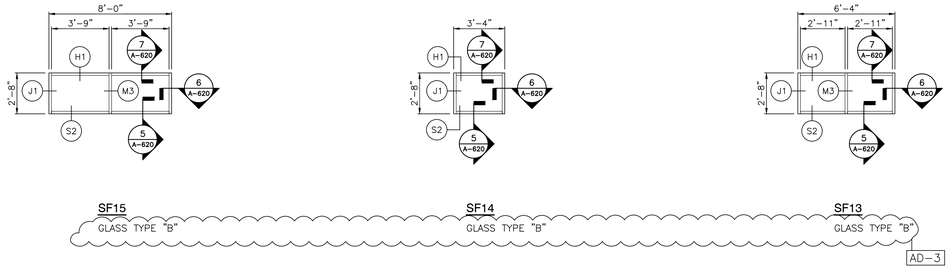
PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

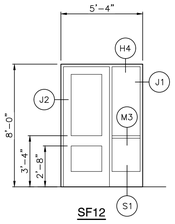
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SHEET
A-601

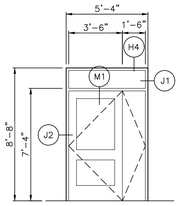
Monday, 4/11/2022 – 10:38 AM – LAST SAVED BY:EMCCAULEY
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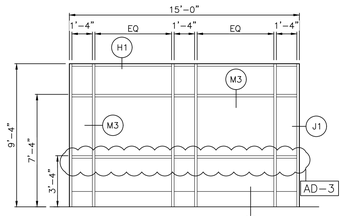




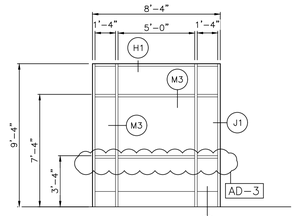
SF12



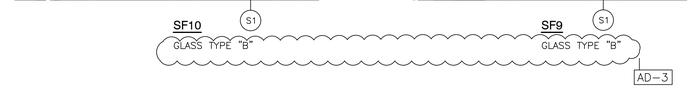
SF11

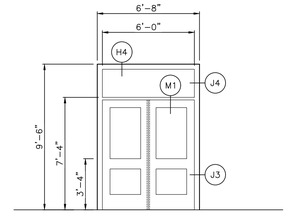


SF10

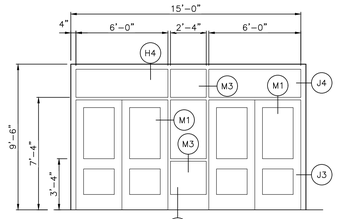


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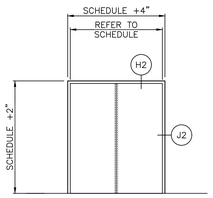




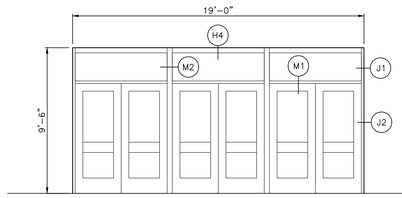
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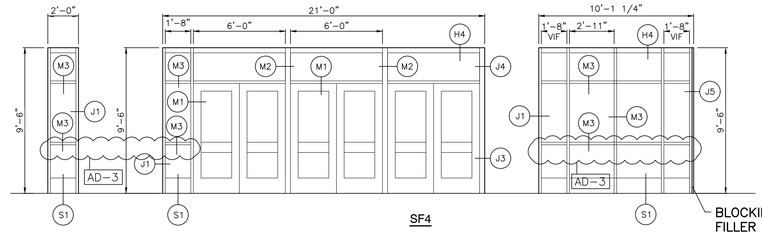
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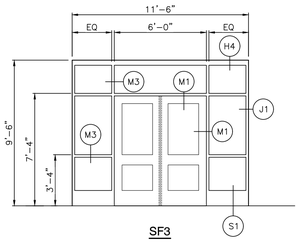
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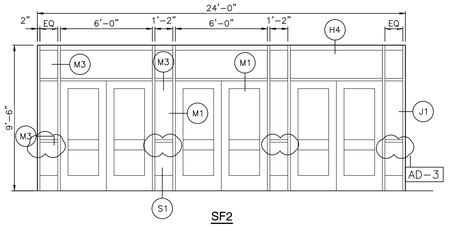
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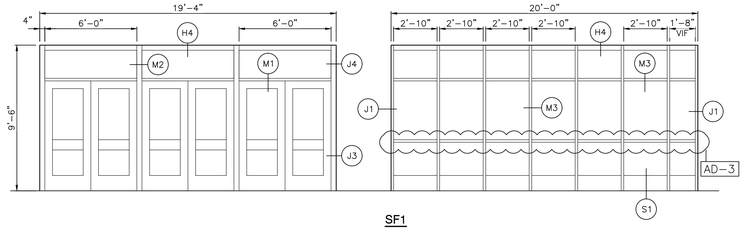
SF4



SF3



SF2



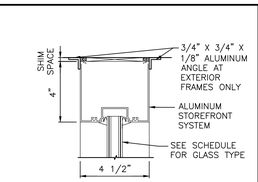
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NOTES - ALUMINUM FRAMING

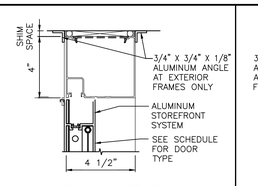
1. CURTAINWALL AND STOREFRONT HEAD, JAMB AND SILL DETAILS REFER TO SECTION FRAME PROFILES ON SHEET A-620.
2. PROVIDE SHIM SPACE, BACKER ROD AND SEALANT AROUND PERIMETER OF ALL STOREFRONT FRAMING WHERE FRAMING ABUTS DISSIMILAR MATERIALS.
3. PROVIDE FOAM INSULATION IN SHIM SPACE AROUND PERIMETER OF ALL EXTERIOR STOREFRONT FRAMING.
4. DIMENSIONS SHOWN ARE NOMINAL. FIELD VERIFY ALL DIMENSIONS SHOWN PRIOR TO FABRICATION AND INSTALLATION.
5. ALL FRAMES IN EXTERIOR WALLS SHALL BE THERMALLY BROKEN WITH 1" INSULATED GLAZING.
6. REFER TO DOOR AND FRAME SCHEDULE FOR GLASS SCHEDULE.
7. ALL GLAZING SHALL CONFORM TO STATE AND LOCAL CODES.
8. "T" = TEMPERED SAFETY GLAZING UNLESS OTHERWISE INDICATED.

GLASS SCHEDULE

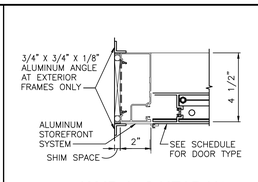
MK	GLASS TYPES	MK	GLASS TYPES
A	1/4" TEMPERED (CLEAR)	F	1/2" OR 5/8" ACOUSTIC LAMINATED SAFETY GLASS
B	1" INSUL. GLASS (TINTED)	G	1/2" LAMINATED SAFETY GLASS (ONE WAY MIRROR TINT)
C	1" INSUL. GLASS (CLEAR)	H	OUTER LAYER TYPE "F", 1/2" SEALED AIR SPACE, AND INNER LAYER TYPE "F" (SINGLE UNIT - CLEAR)
D	1" INSUL. SPANDREL GLASS (TINTED)	T	1" INSUL. TRANSLUCENT GLASS (TINTED)
E	1/4" LAMINATED SAFETY GLASS (CLEAR)		



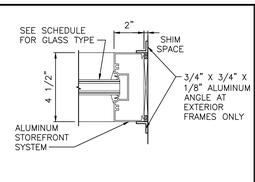
JAMB J4 & HEAD H4



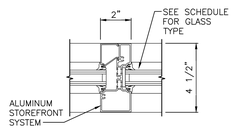
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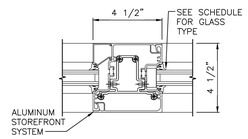
JAMB J2 & HEAD H2



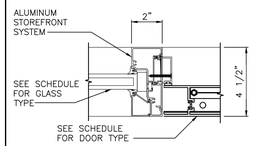
JAMB J1 & HEAD H1



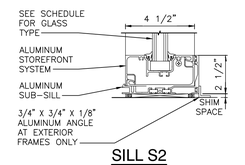
MULLION M3



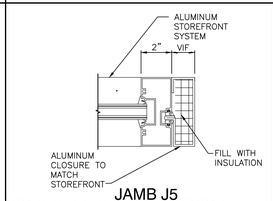
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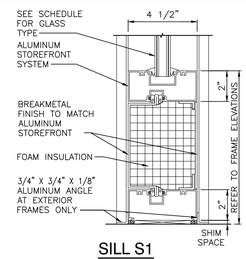
MULLION M1



SILL S2



JAMB J5



SILL S1

NOTE: ALL EXTERIOR STOREFRONT FRAME PROFILES SHALL BE 6" WIDE. INTERIOR PROFILES SHALL BE 4-1/2" WIDE

ALUMINUM STOREFRONT FRAME PROFILES

SCALE: 3" = 1'-0"

AD-3

2 A-610

ALUMINUM STOREFRONT ELEVATIONS (SF)

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

1 A-610

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

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PROJECT 21-106
DATE 3/14/22
COORDINATED BY EJM
DRAWN BY EJM PCD
CHECKED BY EJM

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

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REVISIONS

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AD-3	4/11/22	ADDENDUM NO. 3

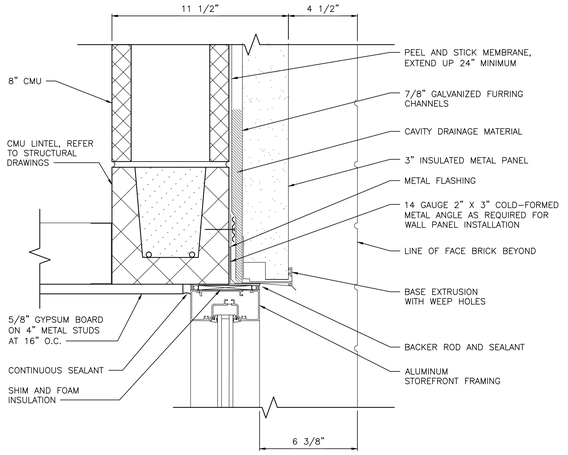
DRAWING
STOREFRONT FRAME ELEVATIONS AND DETAILS

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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SHEET
A-610

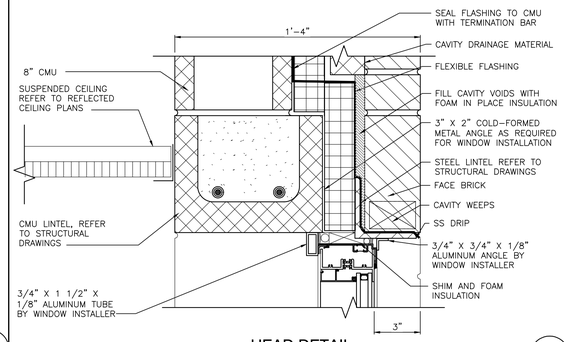
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HEAD DETAIL

SCALE: 3" = 1'-0"

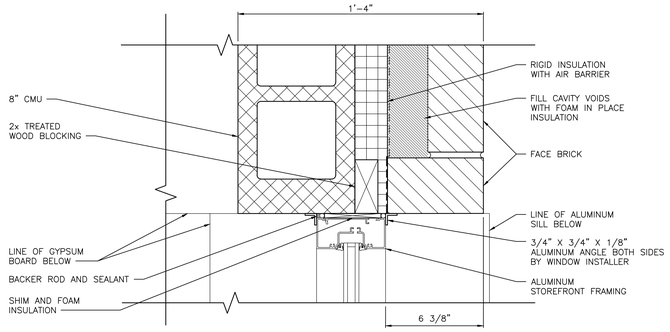
7 / A-620



HEAD DETAIL

SCALE: 3" = 1'-0"

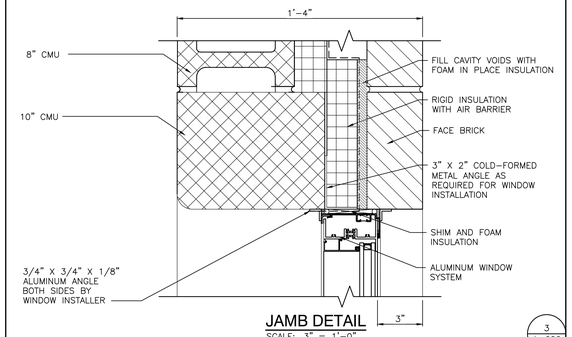
4 / A-620



JAMB DETAIL

SCALE: 3" = 1'-0"

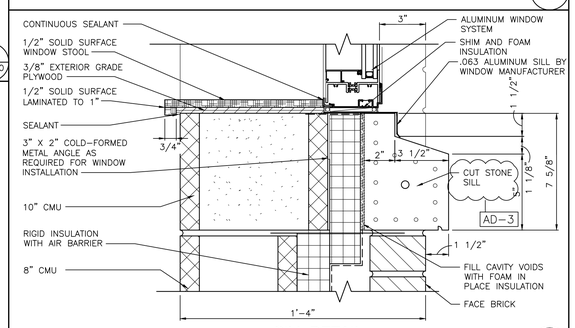
6 / A-620



JAMB DETAIL

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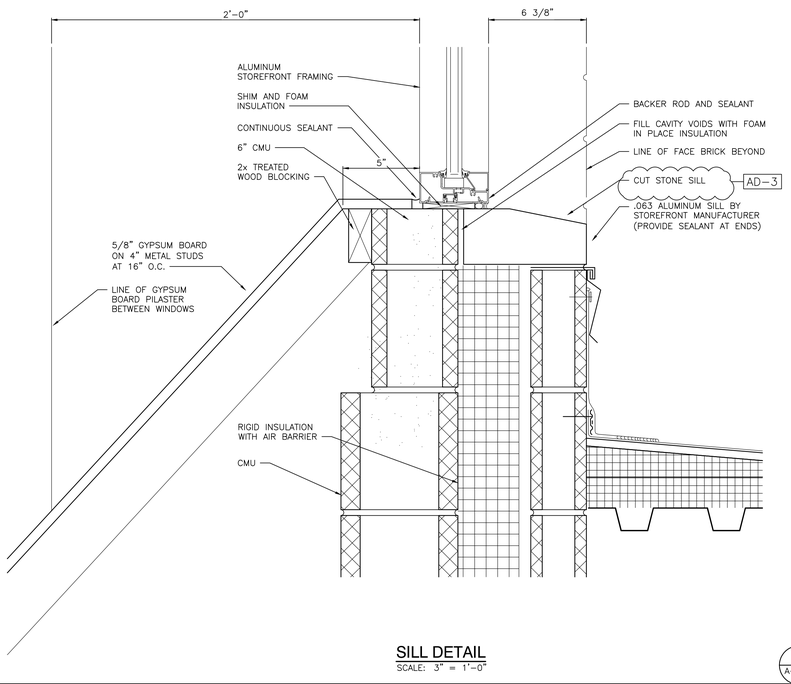
3 / A-620



SILL DETAIL

SCALE: 3" = 1'-0"

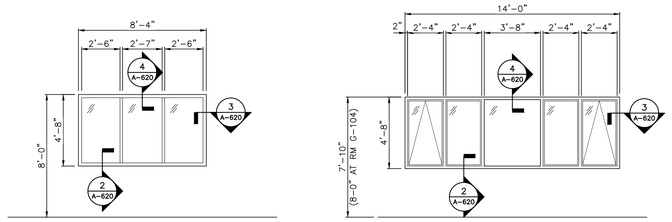
2 / A-620



SILL DETAIL

SCALE: 3" = 1'-0"

5 / A-620



ALUMINUM WINDOW ELEVATIONS (W)

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

1 / A-620

NOTES - ALUMINUM FRAMING

1. CURTAINWALL AND STOREFRONT HEAD, JAMB AND SILL DETAILS REFER TO SECTION FRAME PROFILES ON SHEET A-620.
2. PROVIDE SHIM SPACE, BACKER ROD AND SEALANT AROUND PERIMETER OF ALL STOREFRONT FRAMING WHERE FRAMING ABUTS DISSIMILAR MATERIALS.
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5. ALL FRAMES IN EXTERIOR WALLS SHALL BE THERMALLY BROKEN WITH 1" INSULATED GLAZING.
6. REFER TO DOOR AND FRAME SCHEDULE FOR GLASS SCHEDULE.
7. ALL GLAZING SHALL CONFORM TO STATE AND LOCAL CODES.
8. "T" = TEMPERED SAFETY GLAZING UNLESS OTHERWISE INDICATED.

GLASS SCHEDULE

MK	GLASS TYPES	MK	GLASS TYPES
A	1/4" TEMPERED (CLEAR)	F	1/2" OR 5/8" ACOUSTIC LAMINATED SAFETY GLASS
B	1" INSUL. GLASS (TINTED)	G	1/2" LAMINATED SAFETY GLASS (ONE WAY MIRROR TINT)
C	1" INSUL. GLASS (CLEAR)	H	OUTER LAYER TYPE "T", 1/2" SEALED AIR SPACE, AND INNER LAYER TYPE "T" (SINGLE UNIT – CLEAR)
D	1" INSUL. SPANDREL GLASS (TINTED)	T	1" INSUL. TRANSLUCENT GLASS (TINTED)
E	1/4" LAMINATED SAFETY GLASS (CLEAR)		

GIBRALTAR DESIGN
DESIGN
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PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

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PROJECT 21-106
DATE 3/14/22
COORDINATED BY EJM
DRAWN BY EJM PCD
CHECKED BY EJM

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

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REVISIONS

MARK	DATE	ISSUED FOR
AD-3	4/11/22	ADDENDUM NO. 3

DRAWING

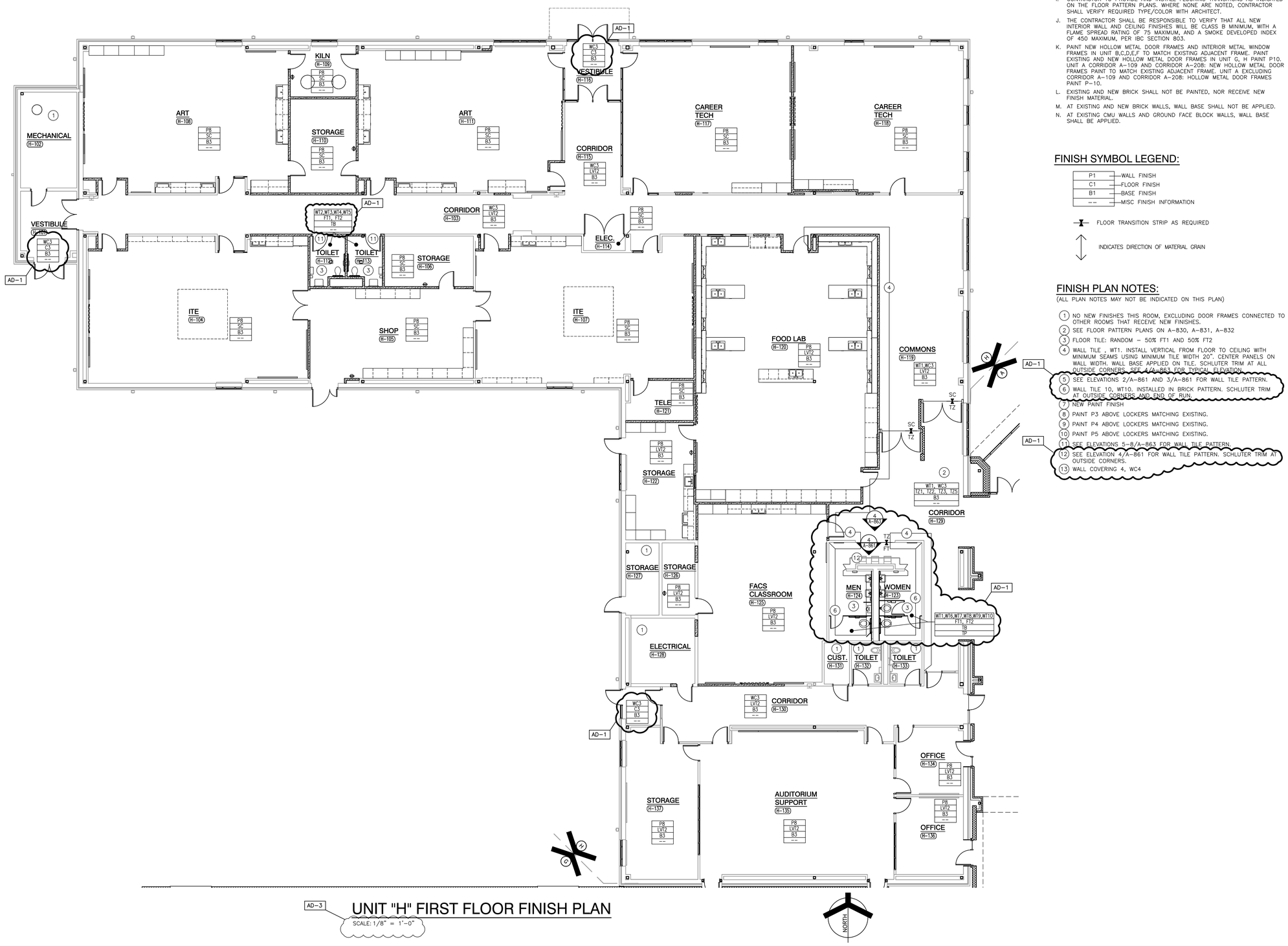
WINDOW ELEVATIONS AND DETAILS

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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SHEET A-620

Monday, 4/11/2022 – 10:51 AM – LAST SAVED BY:EMCCAULEY
Y:\21-106 CROWN POINT CSC – WHEELER MIDDLE SCHOOL ADDITION AND RENOVATIONS\21-106 DRAWINGS\05 ARCH\A-620.DWG



UNIT "H" FIRST FLOOR FINISH PLAN

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

GENERAL FINISH PLAN NOTES:

A. REFERENCE FINISH LEGEND FOR FINISH INFORMATION.

B. REFERENCE FLOOR PATTERN PLANS, EQUIPMENT PLANS, INTERIOR ELEVATIONS, REFLECTED CEILING PLANS AND WRITTEN SPECIFICATIONS FOR ADDITIONAL FINISH INFORMATION.

C. PRIOR TO INSTALLATION OF NEW FINISHES CONTRACTOR SHALL INSPECT ALL SUBSTRATES. IF A SUBSTRATE IS DEEMED UNACCEPTABLE THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO RECTIFY THE SITUATION OR CONTACT THE ARCHITECT WITH THE CONCERN. PROCEEDING WITH THE INSTALLATION OF FINISHES WILL BE CONSTRUED THAT THE INSTALLER AND /OR FINISHER HAS ACCEPTED SAID SUBSTRATE. NO CHANGE ORDER WILL BE ISSUED TO RECTIFY CONCEALED, OR UNSATISFACTORY SUBSTRATE ONCE FINISH WORK HAS PROCEEDED.

D. PREPARE ALL WALL CONSTRUCTION, NEW AND EXISTING, TO RECEIVE NEW FINISHES AS PER MANUFACTURE'S RECOMMENDED INSTALLATION METHODS AND MATERIALS FOR ALL FINISHES.

E. ALL FLOORING IS TO BE LEVELED WITHIN 1/4" IN 10'-0" WITH LATEX MATERIAL. MOISTURE CONTENT IN AREA IS TO BE TESTED PRIOR TO INSTALLATION OF FLOORING MATERIAL. CONTRACTOR TO INSTALL FLOORING PER MANUFACTURER'S RECOMMENDED METHOD.

F. FLOORING CONTRACTOR TO SUBMIT A SEAMING DIAGRAM FOR FLOORING MATERIAL INCLUDING NOTATION OF MATERIAL DIRECTION.

G. ALL FLOORING TRANSITIONS SHALL COMPLY WITH ADA GUIDELINES.

H. ALL EXPOSED METAL SURFACES, SUCH AS GRILLES, FIRE EXTINGUISHER CABINETS, ETC, THAT ARE NOTED TO BE PAINTED, SHALL BE PAINTED WITH ALKYD TYPE PAINT. COLOR TO BE COORDINATED WITH DESIGNER UNLESS OTHERWISE NOTED.

I. CONTRACTOR TO PROVIDE AND INSTALL FLOORING TRANSITIONS AS INDICATED ON THE FLOOR PATTERN PLANS. WHERE NONE ARE NOTED, CONTRACTOR SHALL VERIFY REQUIRED TYPE/COLOR WITH ARCHITECT.

J. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL NEW INTERIOR WALL AND CEILING FINISHES WILL BE CLASS B MINIMUM, WITH A FLAME SPREAD RATING OF 75 MAXIMUM, AND A SMOKE DEVELOPED INDEX OF 450 MAXIMUM, PER IBC SECTION 803.

K. PAINT NEW HOLLOW METAL DOOR FRAMES AND INTERIOR METAL WINDOW FRAMES IN UNIT B,C,D,E,F TO MATCH EXISTING ADJACENT FRAME. PAINT EXISTING AND NEW HOLLOW METAL DOOR FRAMES IN UNIT G, H PAINT P10. UNIT A CORRIDOR A-109 AND CORRIDOR A-208: NEW HOLLOW METAL DOOR FRAMES PAINT TO MATCH EXISTING ADJACENT FRAME. UNIT A EXCLUDING CORRIDOR A-109 AND CORRIDOR A-208: HOLLOW METAL DOOR FRAMES PAINT P-10.

L. EXISTING AND NEW BRICK SHALL NOT BE PAINTED, NOR RECEIVE NEW FINISH MATERIAL.

M. AT EXISTING AND NEW BRICK WALLS, WALL BASE SHALL NOT BE APPLIED.

N. AT EXISTING CMU WALLS AND GROUND FACE BLOCK WALLS, WALL BASE SHALL BE APPLIED.

FINISH SYMBOL LEGEND:

P1	WALL FINISH
C1	FLOOR FINISH
B1	BASE FINISH
--	MISC FINISH INFORMATION

FLOOR TRANSITION STRIP AS REQUIRED

INDICATES DIRECTION OF MATERIAL GRAIN

FINISH PLAN NOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS PLAN)

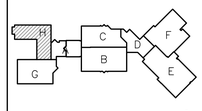
1. NO NEW FINISHES THIS ROOM, EXCLUDING DOOR FRAMES CONNECTED TO OTHER ROOMS THAT RECEIVE NEW FINISHES.
2. SEE FLOOR PATTERN PLANS ON A-830, A-831, A-832
3. FLOOR TILE: RANDOM – 50% FT1 AND 50% FT2
4. WALL TILE , WT1. INSTALL VERTICAL FROM FLOOR TO CEILING WITH MINIMUM SEAMS USING MINIMUM TILE WIDTH 20". CENTER PANELS ON WALL WIDTH. WALL BASE APPLIED ON TILE. SCHLUTER TRIM AT ALL OUTSIDE CORNERS. SEE 4/A-863 FOR TYPICAL ELEVATION.
5. SEE ELEVATIONS 2/A-861 AND 3/A-861 FOR WALL TILE PATTERN.
6. WALL TILE 10, WT10. INSTALLED IN BRICK PATTERN. SCHLUTER TRIM AT OUTSIDE CORNERS AND END OF RUN.
7. NEW PAINT FINISH
8. PAINT P3 ABOVE LOCKERS MATCHING EXISTING.
9. PAINT P4 ABOVE LOCKERS MATCHING EXISTING.
10. PAINT P5 ABOVE LOCKERS MATCHING EXISTING.
11. SEE ELEVATIONS 5-8/A-863 FOR WALL TILE PATTERN.
12. SEE ELEVATION 4/A-861 FOR WALL TILE PATTERN. SCHLUTER TRIM AT OUTSIDE CORNERS.
13. WALL COVERING 4, WC4

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PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA



FIRST FLOOR KEY PLAN

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PROJECT 21-106
DATE 3/14/22
COORDINATED BY EJM
DRAWN BY CLN, KRT
CHECKED BY NAS

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

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REVISIONS

MARK	DATE	ISSUED FOR
AD-1	3/28/22	ADDENDUM NO.1
AD-3	4/11/22	ADDENDUM NO.3

DRAWING
UNIT "H" FIRST FLOOR FINISH PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

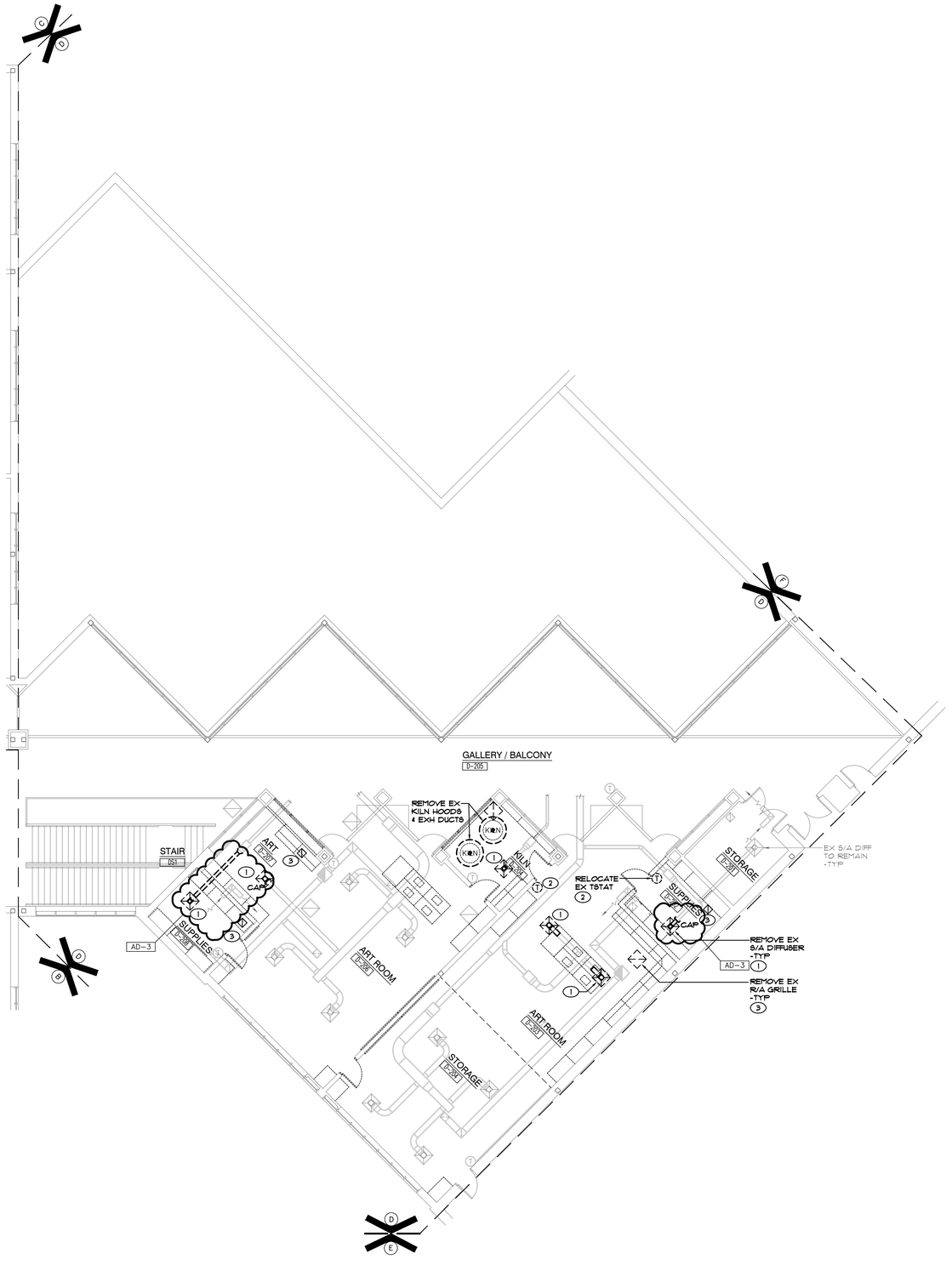
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SHEET H A-814

Monday, 4/11/2022 - 3:49 PM - LAST SAVED BY:EMCCAULEY
Y:\21-106 CROWN POINT CSC - WHEELER MIDDLE SCHOOL ADDITION AND RENOVATIONS\21-106 DRAWINGS\05 ARCH\A-814.DWG

SHEET NOTES

1. REMOVE EXISTING SUPPLY AIR DIFFUSER AND ASSOCIATED SUPPLY DUCTWORK COMPLETE AS REQUIRED.
2. EXISTING THERMOSTAT TO BE REMOVED AND RELOCATED.
3. REMOVE EXISTING TRANSFER AIR GRILLE COMPLETE AS REQUIRED



UNIT "D" MECHANICAL SECOND FLOOR DEMOLITION PLAN

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

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PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

SECOND FLOOR KEY PLAN

FIRST FLOOR KEY PLAN

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Indianapolis, IN 46260
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Phone 317.580.5777 Fax 317.580.5778

PROJECT 21-106
DATE 03/14/22
COORDINATED BY SM
DRAWN BY BAK/AG/MD
CHECKED BY DJ

REGISTERED DAVID G. JANNEY NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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REVISIONS

MARK	DATE	ISSUED FOR
AD-3	04/11/22	ADDENDUM NO. 3

DRAWING
UNIT "D" MECHANICAL SECOND FLOOR DEMOLITION PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

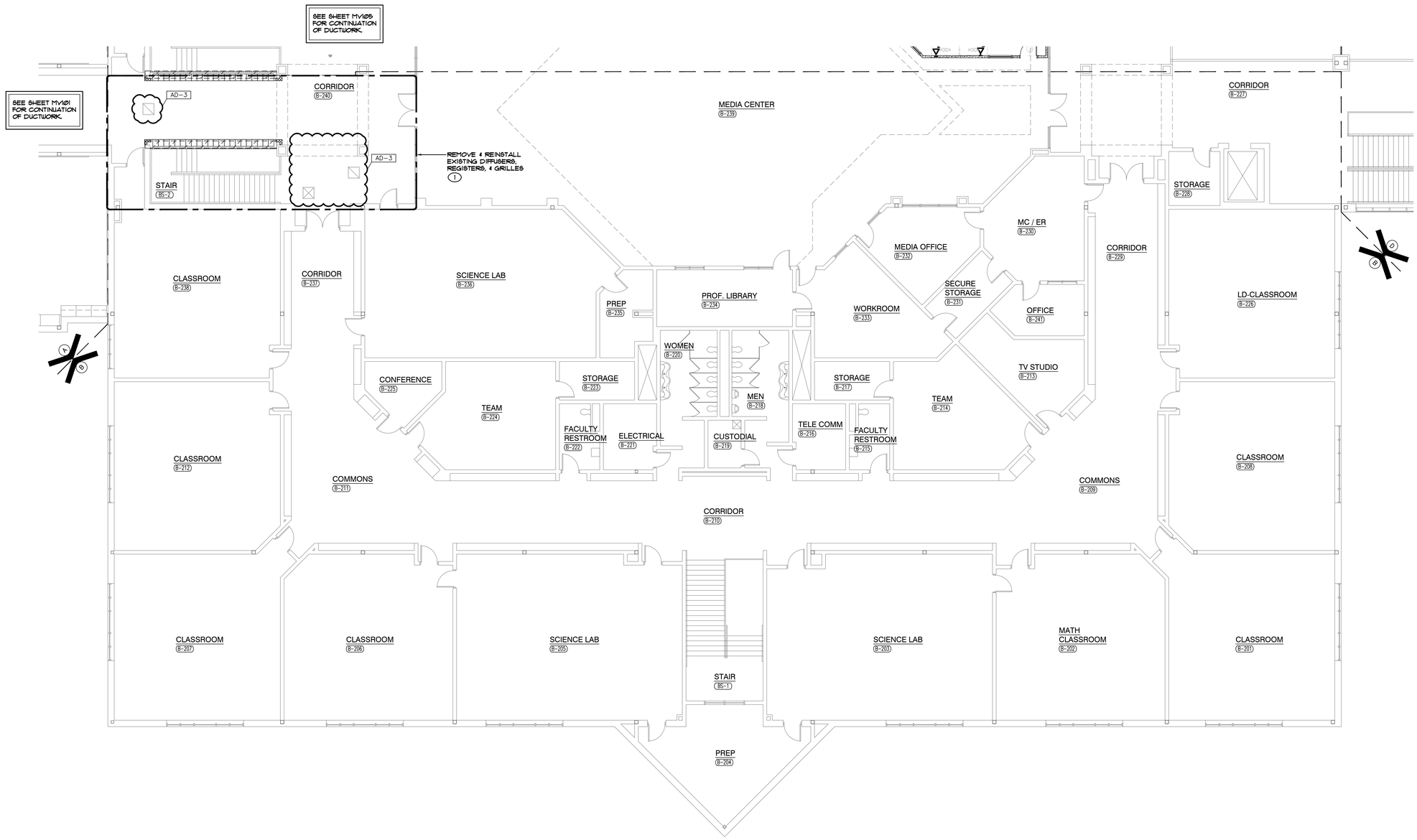
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SHEET NOTES

1. DISCONNECT AND REMOVE ALL EXISTING DIFFUSERS, REGISTERS, AND GRILLES FROM EXISTING LAY-IN CEILING COMPLETE AS REQUIRED. INSPECT AND CLEAN EXISTING GRILLE COMPLETE AS REQUIRED. REINSTALL EXISTING DIFFUSERS, REGISTERS, AND GRILLES IN LAY-IN CEILING AND RECONNECT EXISTING DUCTWORK, IF NECESSARY, COMPLETE AS REQUIRED.



UNIT "B" MECHANICAL SECOND FLOOR VENTILATION PLAN

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

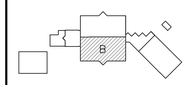
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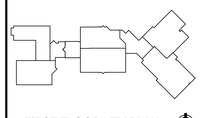
PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA



SECOND FLOOR KEY PLAN



FIRST FLOOR KEY PLAN

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PROJECT 21-106
DATE 03/14/22
COORDINATED BY SM
DRAWN BY BAK/AG/MD
CHECKED BY DJ

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DRAWING
UNIT "B" MECHANICAL SECOND FLOOR VENTILATION PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

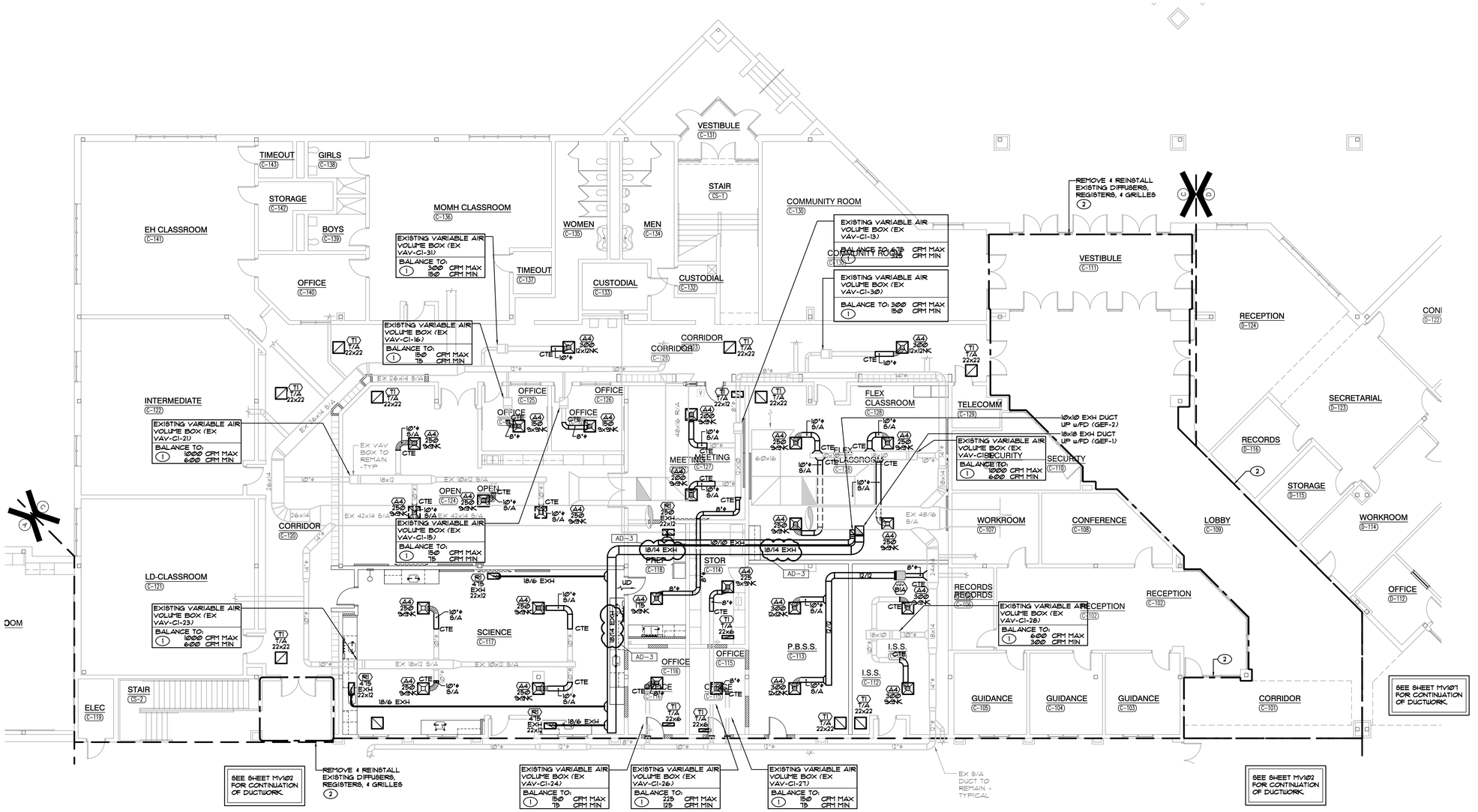
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SHEET NOTES

1. EXISTING VAV BOX TO BE REUSED. CLEAN, CHECK, AND CALIBRATE UNIT FOR PROPER OPERATION. TEST AND BALANCE VAV BOX TO MAXIMUM AND MINIMUM CFM INDICATED ON PLAN.
2. DISCONNECT AND REMOVE ALL EXISTING DIFFUSERS, REGISTERS, AND GRILLES FROM EXISTING LAY'N CEILING COMPLETE AS REQUIRED. INSPECT AND CLEAN EXISTING GRILLE COMPLETE AS REQUIRED. REINSTALL EXISTING DIFFUSERS, REGISTERS, AND GRILLES IN LAY'N CEILING AND RECONNECT EXISTING DUCTWORK, IF NECESSARY, COMPLETE AS REQUIRED.



UNIT "C" MECHANICAL FIRST FLOOR VENTILATION PLAN

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

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PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

SECOND FLOOR KEY PLAN

FIRST FLOOR KEY PLAN

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DATE 03/14/22
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DRAWN BY BAK/AG/MD
CHECKED BY DJ

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DRAWING
UNIT "C" MECHANICAL FIRST FLOOR VENTILATION PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

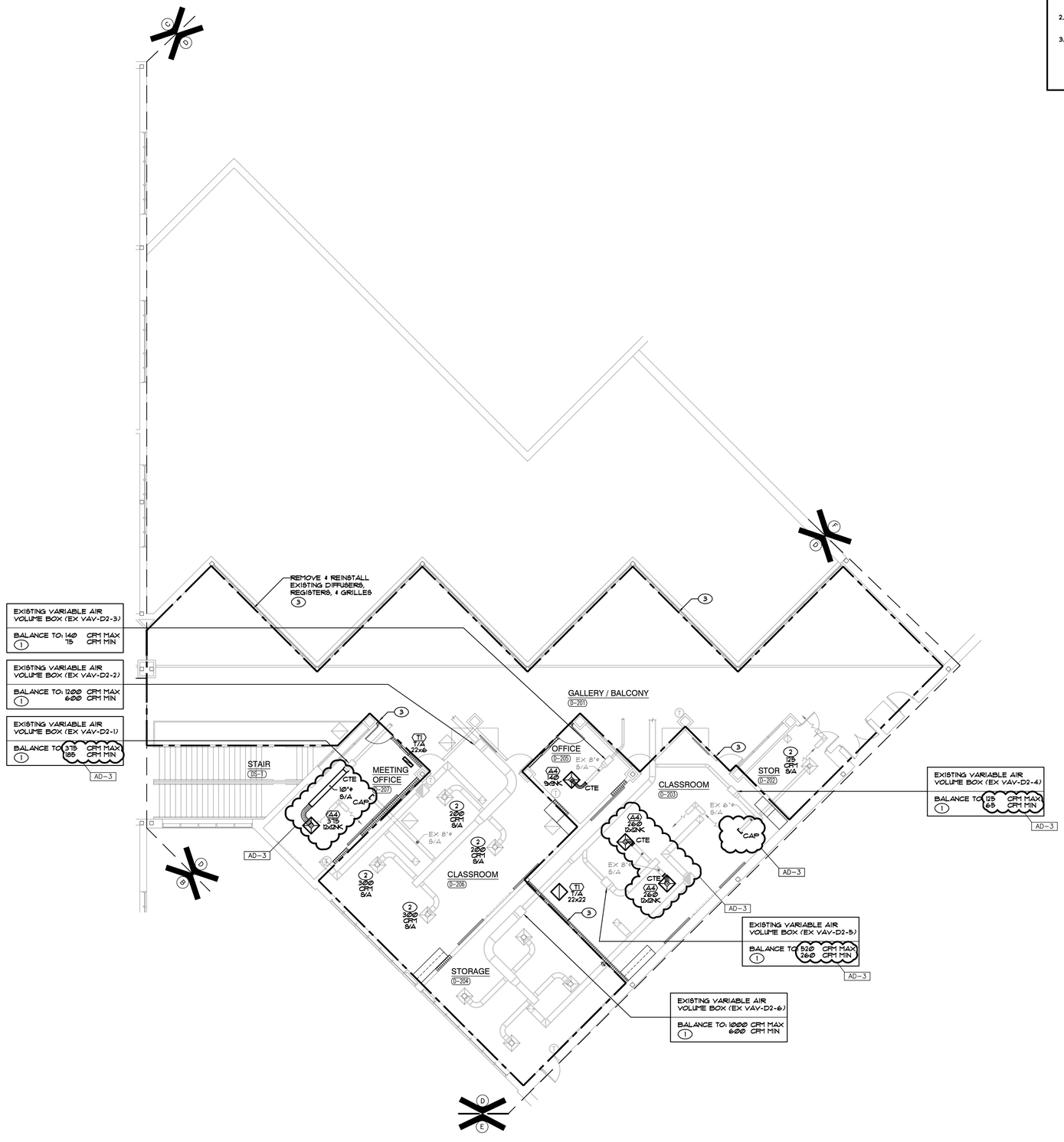
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SHEET NOTES

1. EXISTING VAV BOX TO BE REUSED. CLEAN, CHECK, AND CALIBRATE UNIT FOR PROPER OPERATION. TEST AND BALANCE VAV BOX TO MAXIMUM AND MINIMUM CFM INDICATED ON PLAN.
2. EXISTING SUPPLY AIR DIFFUSER TO REMAIN. BALANCE EXISTING SUPPLY AIR DIFFUSER TO AIRFLOW QUANTITY INDICATED ON PLAN.
3. DISCONNECT AND REMOVE ALL EXISTING DIFFUSERS, REGISTERS, AND GRILLES FROM EXISTING LAY-IN CEILING COMPLETE AS REQUIRED. INSPECT AND CLEAN EXISTING GRILLE COMPLETE AS REQUIRED. REINSTALL EXISTING DIFFUSERS, REGISTERS, AND GRILLES IN LAY-IN CEILING AND RECONNECT EXISTING DUCTWORK, IF NECESSARY, COMPLETE AS REQUIRED.



UNIT "D" MECHANICAL SECOND FLOOR VENTILATION PLAN

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

NORTH

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PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

SECOND FLOOR KEY PLAN

FIRST FLOOR KEY PLAN

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DATE 03/14/22
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DRAWING
UNIT "D" MECHANICAL SECOND FLOOR VENTILATION PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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UNIT "E" MECHANICAL FIRST FLOOR VENTILATION PLAN

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

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PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

SECOND FLOOR KEY PLAN

FIRST FLOOR KEY PLAN

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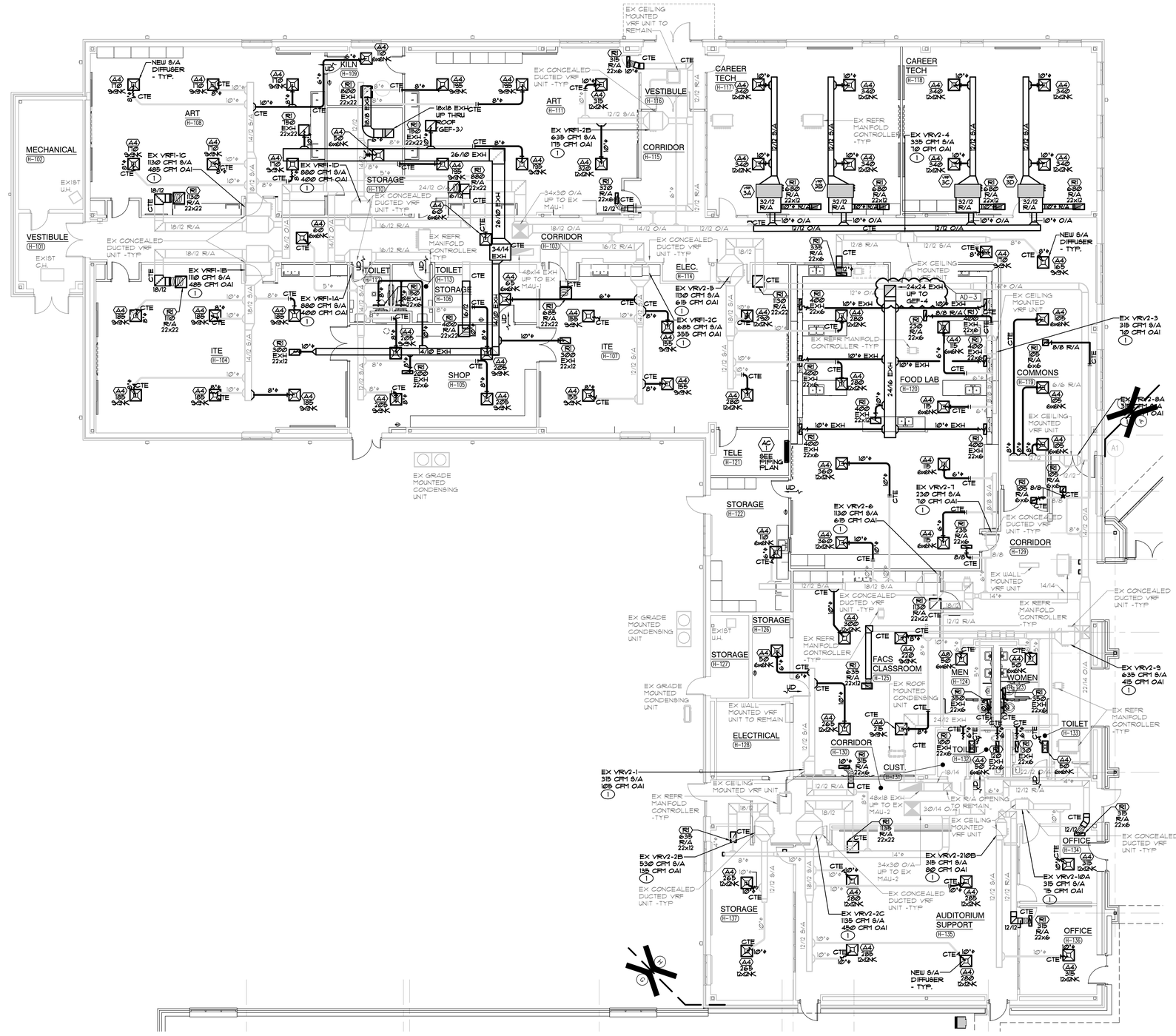
DRAWING
UNIT "E" MECHANICAL FIRST FLOOR VENTILATION PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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UNIT "H" MECHANICAL FIRST FLOOR VENTILATION PLAN

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

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PROJECT

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CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

SECOND FLOOR KEY PLAN

FIRST FLOOR KEY PLAN

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PROJECT 21-106
DATE 03/14/22
COORDINATED BY SM
DRAWN BY BAK/AG/MD
CHECKED BY DJ

REGISTERED PROFESSIONAL ENGINEER
DAVID G. JANNEY
NO. 10302590
STATE OF INDIANA

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AD-3	04/11/22	ADDENDUM NO. 3

DRAWING
UNIT "H" MECHANICAL FIRST FLOOR VENTILATION PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

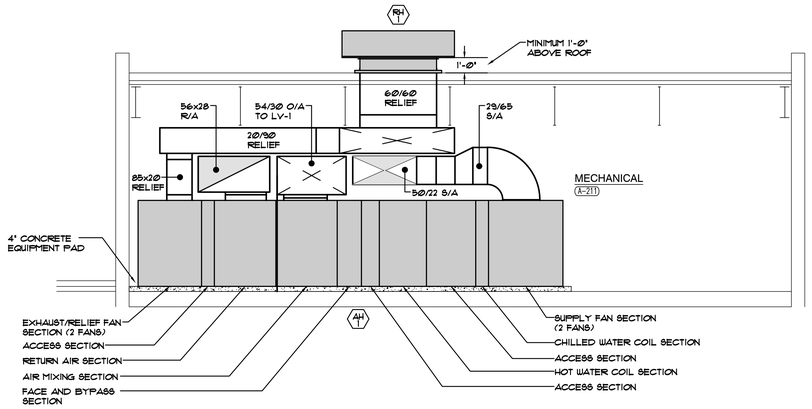
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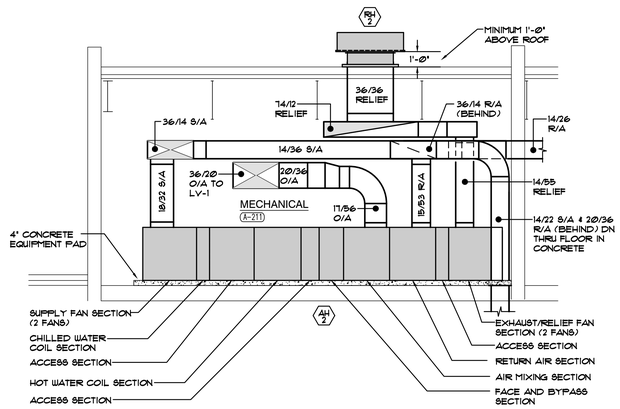
1 MV120 DUCTWORK SECTION FOR AH-1 THRU MECH RM

SCALE: ¼" = 1'-0"

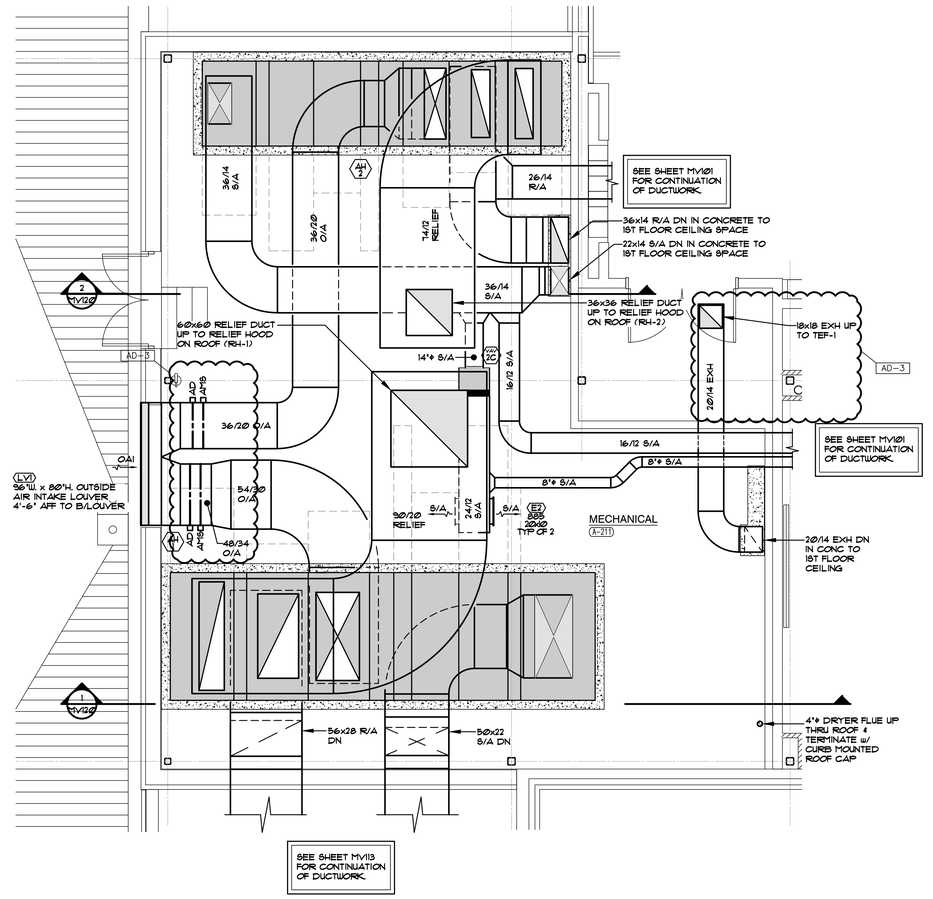


2 MV120 DUCTWORK SECTION FOR AH-2 THRU MECH RM

SCALE: ¼" = 1'-0"



AD-3



ENLARGED MECHANICAL VENTILATION PLAN

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

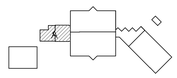
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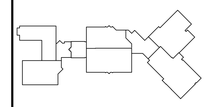
PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA



SECOND FLOOR KEY PLAN



FIRST FLOOR KEY PLAN

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PROJECT 21-106
DATE 03/14/22
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DRAWN BY BAK/AG/MD
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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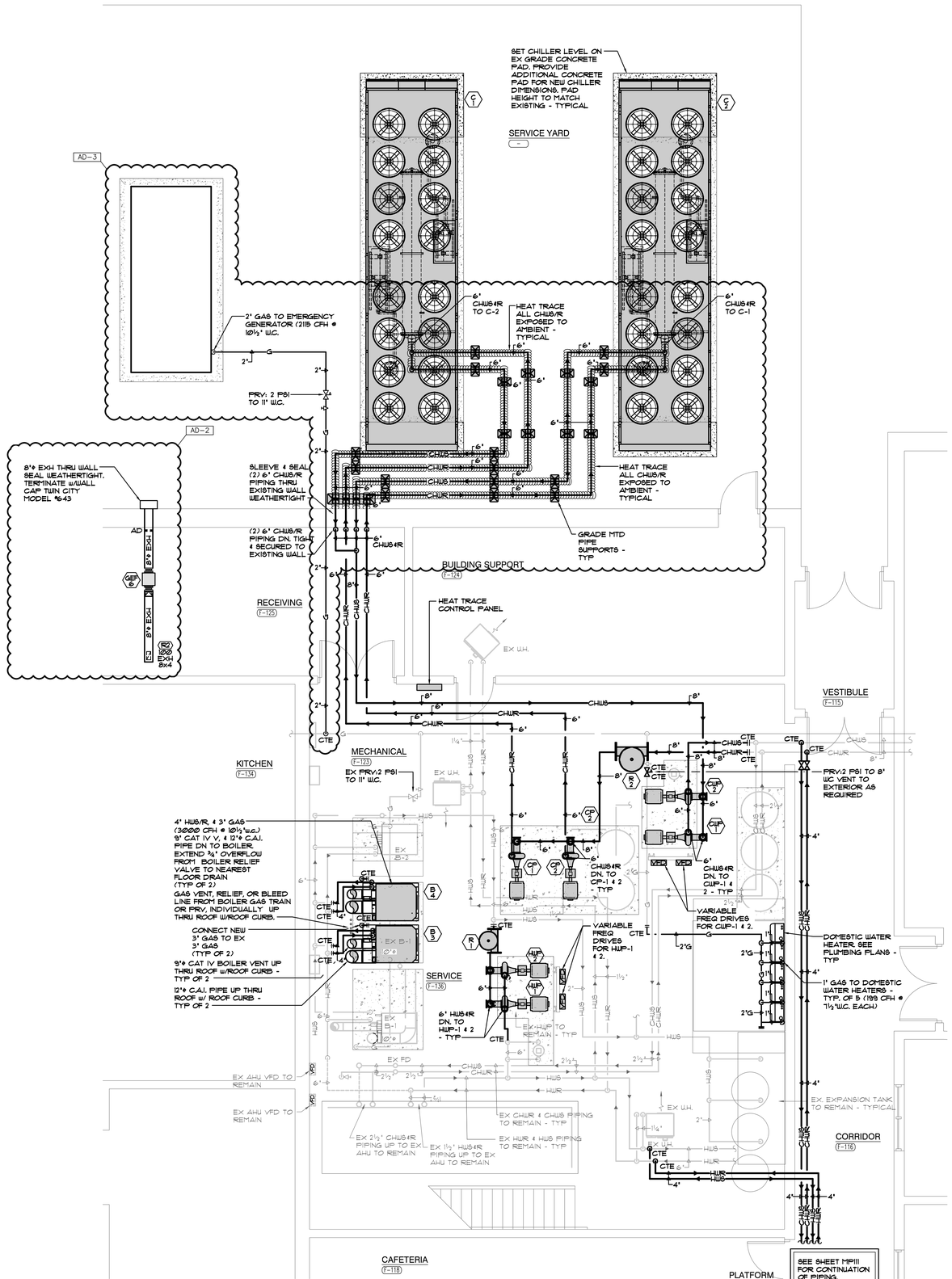
DRAWING
ENLARGED MECHANICAL VENTILATION PLAN & SECTIONS

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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UNIT "F" ENLARGED MECHANICAL PIPING PLAN

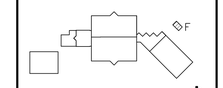
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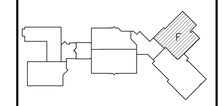
PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA



SECOND FLOOR KEY PLAN



FIRST FLOOR KEY PLAN

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DATE 03/14/22
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DRAWN BY BAK/AG/MD
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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REVISIONS

MARK	DATE	ISSUED FOR
AD-2	04/06/22	ADDENDUM NO. 2
AD-3	04/11/22	ADDENDUM NO. 3

DRAWING
UNIT "F" ENLARGED MECHANICAL PIPING PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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MECHANICAL EQUIPMENT SCHEDULE

TAG	MANUF.	MODEL NUMBER	DESCRIPTION	FAN MOTOR DATA							DX COOLING EQUIP/COIL				GAS-FIRED HEATING EQUIP DATA		CHILLED WATER COOLING EQUIPMENT/COIL DATA									HOT WATER HEATING EQUIP/COIL DATA								HOT WATER PREHEATING COIL DATA							ELECTRICAL DATA									UNITS	EQUIP	REMARKS
				CFM	MIN OA CFM HIGH	MIN OA CFM LOW	TSP	ESP	HP	RPM	MBH	EDB	EWB	CAT	MBH (IN)	MBH (OUT)	EAT	LAT	STAGES	MBH	SHC	GPM	EDB	EWB	LDB	LWB	EWT	LWT	MAX WPD	CAT	MBH (IN)	MBH (OUT)	GPM	EAT	LAT	EWT	LWT	MAX WPD	MBH (IN)	MBH (OUT)	GPM	EAT	LAT	EWT	LWT	MAX WPD	LOAD HP	MCA	FLA	AMPS	MOCP	VOLT	PHASE	HZ.	STARTER: MC.	STARTER: EC.	CONTROLLED BY	WEIGHT	
C-1	TRANE	RTAC-250	GRADE MOUNTED AIR COOLED CHILLER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	298.2	-	495	-	-	-	-	56	44	20	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EX RTU	16413	NOTE 1
C-2	TRANE	RTAC-250	GRADE MOUNTED AIR COOLED CHILLER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	298.2	-	495	-	-	-	-	56	44	20	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EX RTU	16413	NOTE 1
B-3	CAMUS	AR3000	GAS FIRED HW CONDENSING BOILER w/SEALED COMBUSTION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3000	2841	213	-	-	150	180	12	-	-	-	-	-	-	-	-	-	6	-	15	480	3	60	x	-	EX RTU	2400	NOTE 2
B-4	CAMUS	AR3000	GAS FIRED HW CONDENSING BOILER w/SEALED COMBUSTION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3000	2841	213	-	-	150	180	12	-	-	-	-	-	-	-	-	-	6	-	15	480	3	60	x	-	EX RTU	2400	NOTE 2
AH-1	TRANE	CSAA-035	INTERIOR CENTRAL STATION AIR HANDLING UNIT HOT WATER HEATING / CHILLED WATER COOLING - VAV	19000	6700	1900	-	3.55	15	2193	-	-	-	-	-	-	-	-	-	637.3	526.3	105.9	78.2	64.2	53.0	52.8	44	56	12	-	-	-	-	-	-	-	-	-	805.0	53.6	41.8	80.9	180	150	12	-	61	-	-	71	480	3	60	x	-	EX RTU	8620	NOTE 3.
ER-1				19000	-	-	-	0.98	7.5	1823	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SYMBOL LIST

TECHNOLOGY

- ELECTRIC DOOR STRIKE - STUB ¾" CONDUIT FROM THE ACCESSIBLE CEILING SPACE TO THE DOOR MULLION FOR WIRING. INTERFACE WIRING FROM THE DOOR STRIKE TO THE DOOR ACCESS SYSTEM FOR A COMPLETE AND PROPERLY OPERATING SYSTEM.
- DOOR STATUS SENSOR - ROUGH-IN ONLY - REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT, WIRING AND ROUGH-IN INFORMATION
- PROXIMITY CARD READER - ROUGH-IN ONLY - REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT, WIRING AND ROUGH-IN INFORMATION
- VOLUME CONTROL - ROUGH-IN ONLY - REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT, WIRING AND ROUGH-IN INFORMATION
- MIC INPUT - ROUGH-IN ONLY - REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT, WIRING AND ROUGH-IN INFORMATION.
- 2/LI VOICE/DATA OUTLET - ROUGH-IN ONLY - REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT, WIRING AND ROUGH-IN INFORMATION.
- DATA OUTLET - ROUGH-IN ONLY - REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT, WIRING AND ROUGH-IN INFORMATION.
- W VOICE OUTLET WALL MOUNTED TELEPHONE - ROUGH-IN ONLY - REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT, WIRING AND ROUGH-IN INFORMATION.
- SPEAKER, HORN TYPE - ROUGH-IN ONLY - REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT, WIRING AND ROUGH-IN INFORMATION
- VIDEO PROJECTOR CEILING MOUNTED - ROUGH-IN ONLY - REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT, WIRING AND ROUGH-IN INFORMATION. COORDINATE EXACT MOUNTING HEIGHT OF ADJACENT POWER OUTLET WITH LOW VOLTAGE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- TV PANEL - ROUGH-IN ONLY - REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT, WIRING AND ROUGH-IN INFORMATION. COORDINATE EXACT MOUNTING HEIGHT OF ADJACENT POWER OUTLET WITH LOW VOLTAGE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- SOUND CABINET - SOUND CABINET - ROUGH-IN ONLY - REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT, WIRING AND ROUGH-IN INFORMATION.
- WALKER RFB4 SERIES FLUSH FLOOR BOX WITH TWO (2) 20A GROUNDED DUPLEX RECEPTACLES AND ROUGH-IN FOR DATA JACKS - REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT, WIRING AND ROUGH-IN INFORMATION FOR LOW VOLTAGE ROUGH-IN. PROVIDE SCRUB-RESISTANT COVER AND COORDINATE FINISH WITH ARCHITECT.
- M 2 WALKER RFB4 SERIES FLUSH FLOOR BOX WITH TWO (2) 20A GROUNDED DUPLEX RECEPTACLES AND ROUGH-IN FOR DATA JACKS AND MIC INPUT - REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT, WIRING AND ROUGH-IN INFORMATION FOR LOW VOLTAGE ROUGH-IN. PROVIDE SCRUB-RESISTANT COVER AND COORDINATE FINISH WITH ARCHITECT.
- WAP WIRELESS LAN ACCESS POINT OUTLET WALL MOUNTED - ROUGH-IN ONLY - REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT, WIRING AND ROUGH-IN INFORMATION.
- C A VIDEO SURVEILLANCE CAMERA OUTLET EXTERIOR WALL - ROUGH-IN ONLY - REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT, WIRING AND ROUGH-IN INFORMATION. (AD-2)

EQUIPMENT AND WIRING

- 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.
- ELECTRIC PANELBOARDS.
- DISCONNECT SWITCH SIZE AND TYPE AS REQUIRED - COORDINATE AMPERE RATING WITH EQUIPMENT SUPPLIER
- COMBINATION MAGNETIC STARTER WITH DISCONNECT SWITCH.
- MAGNETIC STARTER
- T TRANSFORMER - SIZE AND TYPE AS REQUIRED
- SP SURGE SUPPRESSION DEVICE
- TELEPHONE TERMINAL BOARD T.T.B.
- 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 ¶ 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)
- ADA DOOR OPERATOR PUSH BUTTON FURNISHED BY OTHERS, WIRED AND INSTALLED BY CONTRACTOR. PROVIDE TWO (2) GANG BACK-BOX MOUNTED AT 42" A.F.F. WITH ¾"C. ROUTED DOOR OPERATOR.
- DO SWING DOOR OPERATOR FURNISHED AND INSTALLED BY OTHERS, WIRED BY CONTRACTOR. COORDINATE ELECTRICAL LOCATION WITH DOOR HARDWARE SUPPLIER.
- CP CONTROL PANEL
- VFD VARIABLE FREQUENCY DRIVE
- PALM BUTTON, MECHANICALLY HELD W/INTEGRAL KEYED RELEASE
- FURNISH 'ASCO', 120V, NORMALLY CLOSED SOLENOID VALVE FOR USE WITH LIQUID GAS OR AIR, BRASS BODY CONSTRUCTION, MOUNTABLE IN ANY POSITION. COORDINATE PIPE SIZE AND REQUIREMENTS IN FIELD.
- H HAND DRYER (MODEL SPECIFIED BY ARCHITECT), REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING LOCATION. (AD-2)
- WM WIRE MOLD SURFACE RACEWAY COMPLETE WITH ALL ACCESSORIES (AD-2)
- WIREMOLD #V4000 RACEWAY VERTICAL RISER. (AD-3)

FIRE ALARM

* 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
- FAA FIRE ALARM ANNUNCIATOR PANEL
- AD AUTOMATIC DIALER FOR FIRE, ELEVATOR, AND/OR SECURITY SYSTEM. EXTEND (2) TELEPHONE LINES TO EACH DIALER FROM T.T.B.
- FIRE ALARM PULL STATION MTD 42"AFF.
- FIRE ALARM AUDIO/VISUAL DEVICE MTD. 80" AF. 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
- FIRE ALARM STROBE ONLY MTD 80" AFF. - 110 CANDELA
- FIRE ALARM STROBE ONLY MTD 80" AFF.
- FIRE ALARM SYSTEM HEAT DETECTOR - COMBINATION TYPE (R/R - FIXED TEMP.) IN BOILER ROOM
- FIRE ALARM SYSTEM SMOKE DETECTOR - CEILING MOUNTED - ABOVE FACP
- SD FIRE ALARM SYSTEM DUCT TYPE SMOKE DETECTOR WIRED TO CONTROL LOCAL FAN SHUT DOWN RELAY - DUCT DETECTOR TO BE MOUNTED IN AIR DUCT SYSTEM AND WIRED PER MANUFACTURER'S RECOMMENDATIONS AND NFPA 72
- RT REMOTE SMOKE DETECTOR TEST STATION WITH LED AND KEYED SWITCH.
- R FIRE ALARM CONTROL RELAY IN AIR HANDLING UNIT CONTROL PANEL WIRED TO SHUT DOWN FANS UPON FIRE ALARM SYSTEM ACTIVATION - NOTE: FANS TO AUTOMATICALLY RESTART UPON FIRE ALARM SYSTEM RESET. ALSO, RELAYS SHALL BE INTERFACED TO FIRE DOORS TO DISENGAGE UPON ACTIVATION OF THE FIRE ALARM SYSTEM.
- SFD SMOKE FIRE DAMPER, CONNECT CONTROL WIRING TO ASSOCIATED SMOKE DUCT DETECTORS.
- SM SMOKE DAMPER, CONNECT CONTROL WIRING TO ASSOCIATED SMOKE DUCT DETECTORS.
- FS FIRE PROTECTION SPRINKLER FLOW SWITCH
- TS FIRE PROTECTION SPRINKLER TAMPER SWITCH
- FIRE PROTECTION SPRINKLER ALARM BELL - INSTALLED AND WIRED
- ELECTROMAGNETIC WALL MOUNTED DOOR HOLDER OR WIRE HARDWARE INSTALLED DOOR CLOSER COMPLETE AS REQUIRED. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND MOUNTING STYLE WITH DOOR SCHEDULE PRIOR TO ROUGHING IN FOR SAME.
- CO FURNISH AND INSTALL DIGITAL CARBON MONOXIDE SENSING PROBES - MSA Z GARD S SENSORS OR APPROVED EQUAL WITH ¾"C. AND WIRING ROUTED TO CARBON MONOXIDE CONTROL PANEL. COORDINATE REQUIREMENTS WITH MANUFACTURER AND SPECIFICATIONS. MOUNT UNIT AT 48" A.F.F.

SWITCHING

- $ GENERAL PURPOSE 1-POLE SWITCH - (TYPICAL - MOUNTED 42" A.F.F.) (HUBBELL OR EQUAL) PROVIDE LOW VOLTAGE STYLE SWITCH WHERE REQUIRED TO INTERFACE WITH LIGHTING CONTROL POWER PACK TO ACCOMPLISH REQUIRED LIGHTING CONTROL SEQUENCE.
- $3 GENERAL PURPOSE 3-WAY SWITCH MTD 42" AFF (HUBBELL OR EQUAL) PROVIDE LOW VOLTAGE STYLE SWITCH WHERE REQUIRED TO INTERFACE WITH LIGHTING CONTROL POWER PACK TO ACCOMPLISH REQUIRED LIGHTING CONTROL SEQUENCE.
- $4 GENERAL PURPOSE FOUR WAY SWITCH MTD. 42" AFF (HUBBELL OR EQUAL) PROVIDE LOW VOLTAGE STYLE SWITCH WHERE REQUIRED TO INTERFACE WITH LIGHTING CONTROL POWER PACK TO ACCOMPLISH REQUIRED LIGHTING CONTROL SEQUENCE.
- $MI FURNISH AND INSTALL WALL SWITCH SINGLE BUTTON DUAL TECHNOLOGY OCCUPANCY SENSOR WITH MANUAL ON OPERATION MTD 42" AFF. SENSORSWITCH WSX-PDT OR APPROVED EQUAL BY EATON, LEVITON OR HUBBELL CONTROLS.
- Ø-10V DIMMER SWITCH - (TYPICAL - MOUNTED 42" A.F.F.) (PROVIDE LEVITON OR LUTRON DIMMER - COORDINATE EXACT MODEL WITH OWNER AND WITH FIXTURE MANUFACTURER FOR COMPATIBILITY.)
- MS FURNISH AND INSTALL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH POWER PACK. MANUFACTURERS: SENSORSWITCH "CM-PDT-10-TYP-20 (WITH MICROPHONICS) OR APPROVED EQUAL BY EATON, LEVITON OR HUBBELL CONTROLS. SENSOR SHALL BE PROGRAMMED FOR MANUAL ON UNLESS OTHERWISE NOTED.
- MSH FURNISH AND INSTALL CEILING MOUNTED HIGH BAY OCCUPANCY SENSOR WITH POWER PACK. MANUFACTURERS: SENSORSWITCH "CM-6 OR APPROVED EQUAL BY COOPER OR HUBBELL CONTROLS. SENSOR SHALL BE PROGRAMMED FOR MANUAL ON UNLESS OTHERWISE NOTED.
- PC EXTERIOR LIGHTING CONTROL PHOTOCELL
- $K KEY OPERATED TOGGLE TYPE SWITCH
- $PS PROJECTOR SCREEN SWITCH ROUGH-IN. PROVIDE SUITABLE BACK BOX AND STAINLESS STEEL ENGRAVED COVER PLATE FOR SWITCH DEVICES FURNISHED BY EQUIPMENT SUPPLIER.
- $ MANUAL STARTING SWITCH WITH THERMAL OVERLOAD PROTECTION
- $ UTILITY CONTROLLER FOR SCIENCE LAB SHUT OFF SWITCHES AND EQUIPMENT RECESSED MOUNTED IN WALL. REFER TO THE SCIENCE ROOM SHUT-OFF SCHEMATIC WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
- $MC K momentary contact key operated switch with pilot light and engraved ID cover plate. (AD-2)

RECEPTACLES

- 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 DUPLEX RECEPTACLE - (MOUNTED AT SPECIAL HEIGHT - COORDINATE IN FIELD) (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)
- SPECIAL PURPOSE OUTLET (AS NOTED ON PLAN OR SPECIFICATIONS).
- WP 120V-20A SPECIFICATION GRADE GROUNDED DUPLEX RECEPTACLE WITH G.F.I. PROTECTION (HUBBELL #GF20 OR EQUAL) - MOUNTED IN WIREMOLD #525 SERIES ABOVE FLOOR BOX. PROVIDE FLOOR BOX AND ADAPTER TO MOUNT TO BOX.
- R REEL CORD WITH 45' CORD AND 20A DUPLEX GFCI RECEPTACLE, HUBBELL #HBL45123GF20 OR EQUAL, COMPLETE WITH BALL STOP, AND ALL OTHER APPURTENANCES NECESSARY FOR A COMPLETE AND PROPER INSTALLATION. MOUNT REEL CORD TO THE STRUCTURE ABOVE OR TO THE CEILING GRID (WHERE CEILINGS EXIST). VERIFY CONDITIONS, REQUIREMENTS AND LOCATIONS IN FIELD PRIOR TO ROUGH-IN.
- USB 120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE WITH TWO (2) INTEGRAL USB JACKS, MOUNTED 18" A.F.F. OR AS NOTED. PROVIDE PASS AND SEYMOUR #TR5362USB OR APPROVED EQUAL. (AD-3)

SHEET SYMBOLS

- X / 1 HEXAGON TAG REFERENCE TO EQUIPMENT CONNECTION SCHEDULE
  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.
- 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.
- F41 NEW DEVICE AS INDICATED.
- EX EXISTING LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICE, ETC. TO REMAIN.
- ER EXISTING LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICE, ETC. TO BE REMOVED COMPLETE IN ITS ENTIRETY. REMOVE ALL ASSOCIATED SURFACE MOUNTED CONDUIT, OUTLETS, ETC. AND BLANK-OFF FLUSH WITH NEW OR EXISTING CONSTRUCTION. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 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.

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PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

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PROJECT 21-106
DATE 03/14/22
COORDINATED BY SM
DRAWN BY BAK/AG/MD
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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REVISIONS

MARK	DATE	ISSUED FOR
AD-2	04/06/22	ADDENDUM NO. 2
AD-3	04/11/22	ADDENDUM NO. 3

DRAWING
ELECTRICAL SYMBOL LIST

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

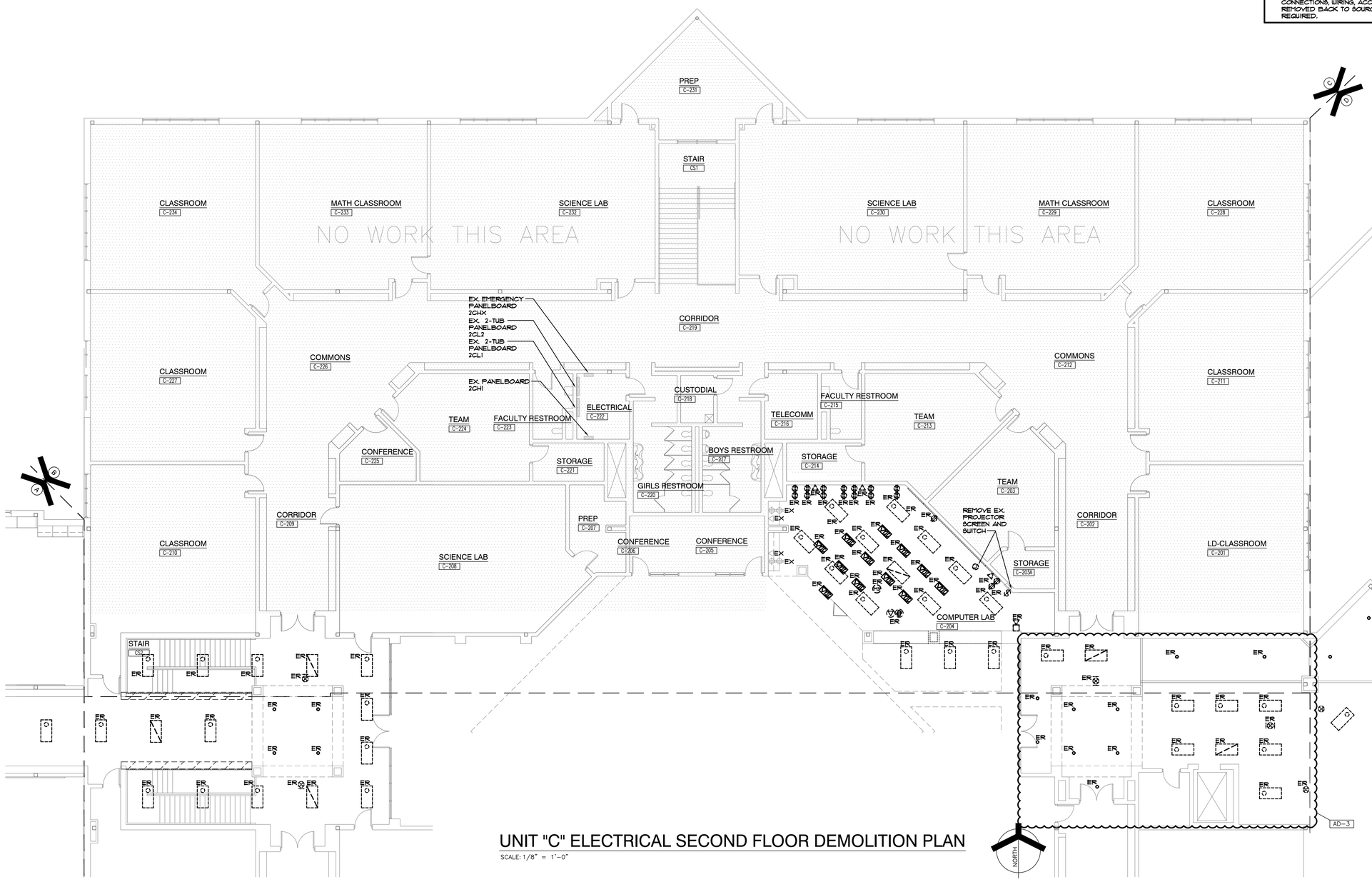
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GENERAL NOTES

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 (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.
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 CEILINGS 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.



UNIT "C" ELECTRICAL SECOND FLOOR DEMOLITION PLAN

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

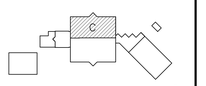
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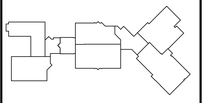
PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA



SECOND FLOOR KEY PLAN



FIRST FLOOR KEY PLAN

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CHECKED BY DJ

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REVISIONS

MARK	DATE	ISSUED FOR
AD-3	04/11/22	ADDENDUM NO. 3

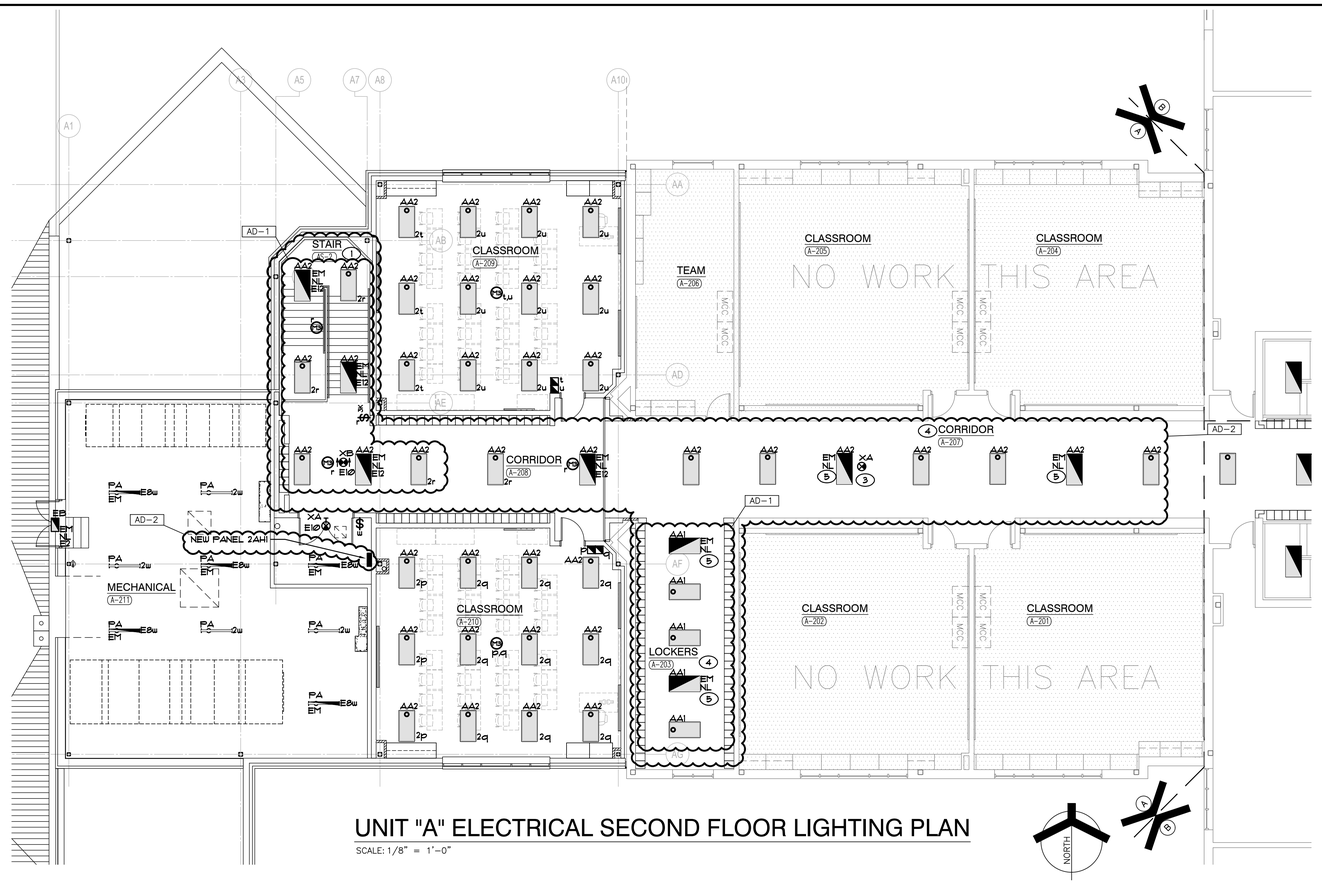
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UNIT "C" ELECTRICAL SECOND FLOOR DEMOLITION PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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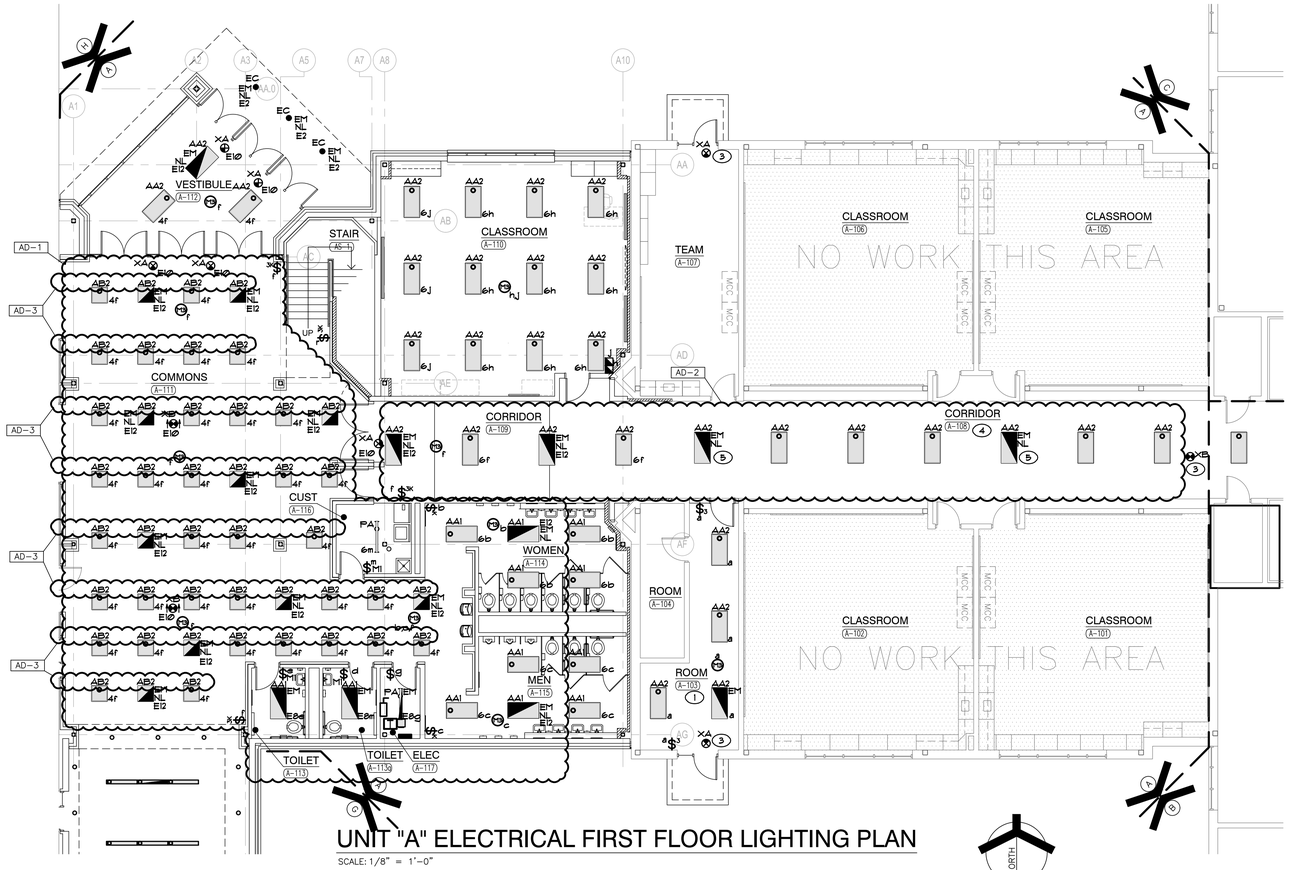
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UNIT "A" ELECTRICAL SECOND FLOOR LIGHTING PLAN

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



UNIT "A" ELECTRICAL FIRST FLOOR LIGHTING PLAN

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

GENERAL NOTES

1. CIRCUIT ALL NORMAL LIGHTING FIXTURES TO NEW PANEL 2AH1 UNLESS OTHERWISE NOTED.
2. CIRCUIT ALL EMERGENCY LIGHTING FIXTURES WITH AN 'E' PREFIX TO NEW PANEL 1HHX UNLESS OTHERWISE NOTED.
3. 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.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHT FIXTURES.
5. ROUTE CONDUIT AS TIGHT TO THE EXPOSED CEILINGS AND STRUCTURE AS POSSIBLE TO MAXIMIZE CEILING SPACE.
6. 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 4400W PER 277 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 #12 AND 1 #12 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 4400W PER 277 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 #12 AND 1 #12 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 4400W PER 277 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 #12 AND 1 #12 GRD IN 3/4" CONDUIT COMPLETE AS REQUIRED. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.

AD-2

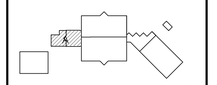
4. RECONNECT NEW CORRIDOR LIGHTING FIXTURES IN THIS SPACE TO EXISTING CORRIDOR LIGHTING CIRCUITRY AND EXISTING CONTACTOR CONTROLS, COMPLETE AS REQUIRED. MAXIMUM 4400W PER 277 VOLT CIRCUIT. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.
5. RECONNECT NEW CORRIDOR EMERGENCY LIGHTING FIXTURES TO EXISTING UNSWITCHED CORRIDOR EMERGENCY LIGHTING CIRCUITRY, COMPLETE AS REQUIRED. MAXIMUM 4400W PER 277 VOLT CIRCUIT. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.

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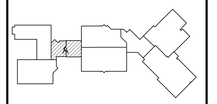
PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA



SECOND FLOOR KEY PLAN



FIRST FLOOR KEY PLAN

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PROJECT 21-106
DATE 03/14/22
COORDINATED BY SM
DRAWN BY BAK/AG/MD
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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REVISIONS

MARK	DATE	ISSUED FOR
AD-1	03/28/22	ADDENDUM NO. 1
AD-2	04/06/22	ADDENDUM NO. 2
AD-3	04/11/22	ADDENDUM NO. 3

DRAWING
UNIT "A" ELECTRICAL FIRST & SECOND FLOOR LIGHTING PLANS

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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A EL101

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SHEET NOTES

AD-2

1. RECONNECT NEW LIGHTING FIXTURES IN THIS SPACE TO EXISTING LIGHTING CIRCUITRY AND NEW SWITCHING DEVICES, COMPLETE AS REQUIRED, MAXIMUM 4400W PER 277 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 #12 AND 1 #12 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 4400W PER 277 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 #12 AND 1 #12 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 4400W PER 277 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 #12 AND 1 #12 GRD IN 3/4" CONDUIT COMPLETE AS REQUIRED. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.

AD-2

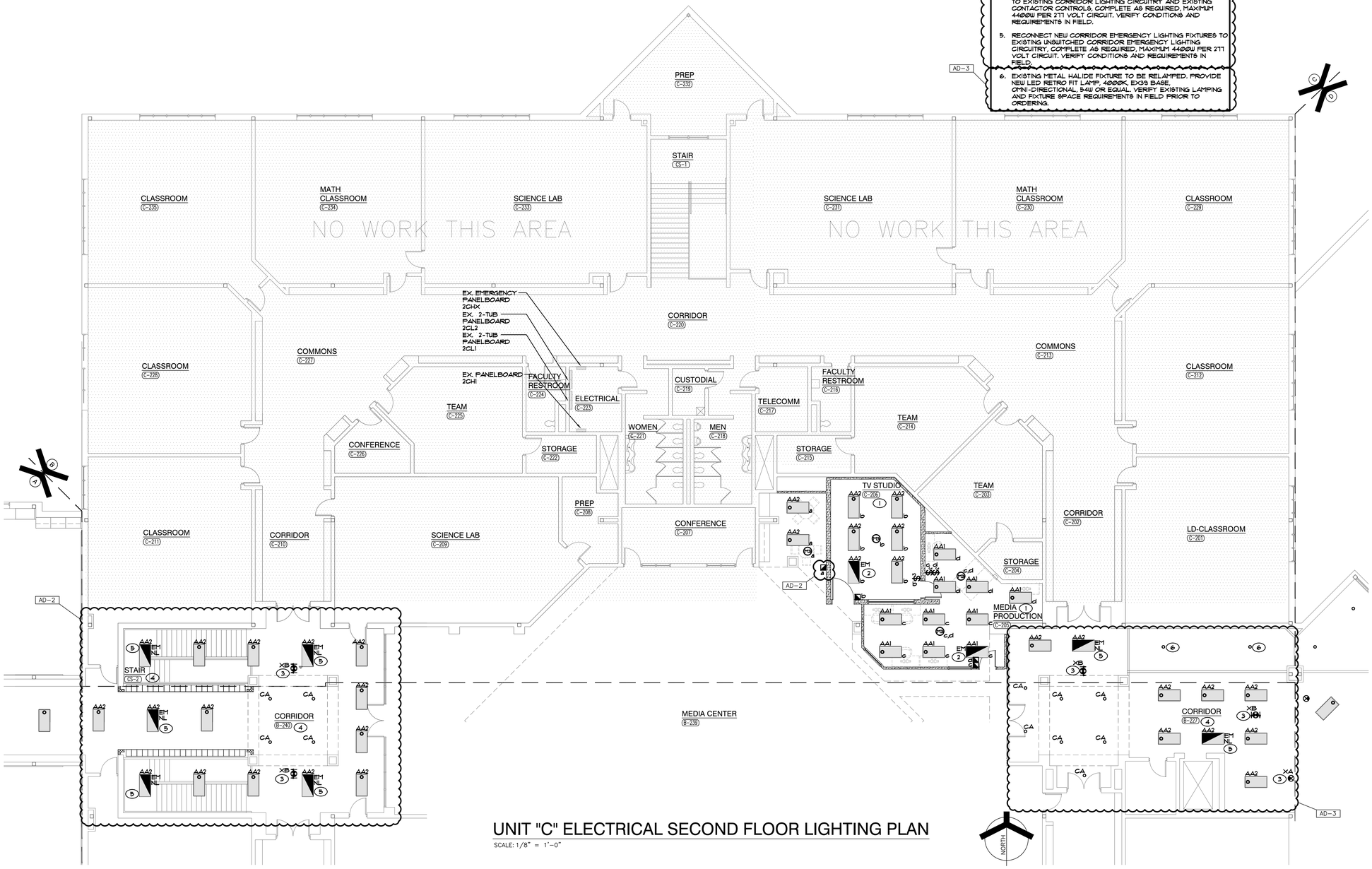
4. RECONNECT NEW CORRIDOR LIGHTING FIXTURES IN THIS SPACE TO EXISTING CORRIDOR LIGHTING CIRCUITRY AND EXISTING CONTACTOR CONTROLS, COMPLETE AS REQUIRED, MAXIMUM 4400W PER 277 VOLT CIRCUIT. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.
5. RECONNECT NEW CORRIDOR EMERGENCY LIGHTING FIXTURES TO EXISTING UNSWITCHED CORRIDOR EMERGENCY LIGHTING CIRCUITRY, COMPLETE AS REQUIRED, MAXIMUM 4400W PER 277 VOLT CIRCUIT. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.

AD-3

6. EXISTING METAL HALIDE FIXTURE TO BE RELAMPED. PROVIDE NEW LED RETRO FIT LAMP, 4000K, EX39 BASE, OMNI-DIRECTIONAL, 54W OR EQUAL. VERIFY EXISTING LAMPING AND FIXTURE SPACE REQUIREMENTS IN FIELD PRIOR TO ORDERING.

GENERAL NOTES

1. ~~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.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHT FIXTURES.
3. ROUTE CONDUIT AS TIGHT TO THE EXPOSED CEILINGS AND STRUCTURE AS POSSIBLE TO MAXIMIZE CEILING SPACE.



UNIT "C" ELECTRICAL SECOND FLOOR LIGHTING PLAN

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

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PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

SECOND FLOOR KEY PLAN

FIRST FLOOR KEY PLAN

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PROJECT 21-106
DATE 03/14/22
COORDINATED BY SM
DRAWN BY BAK/AG/MD
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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AD-3	04/11/22	ADDENDUM NO. 3

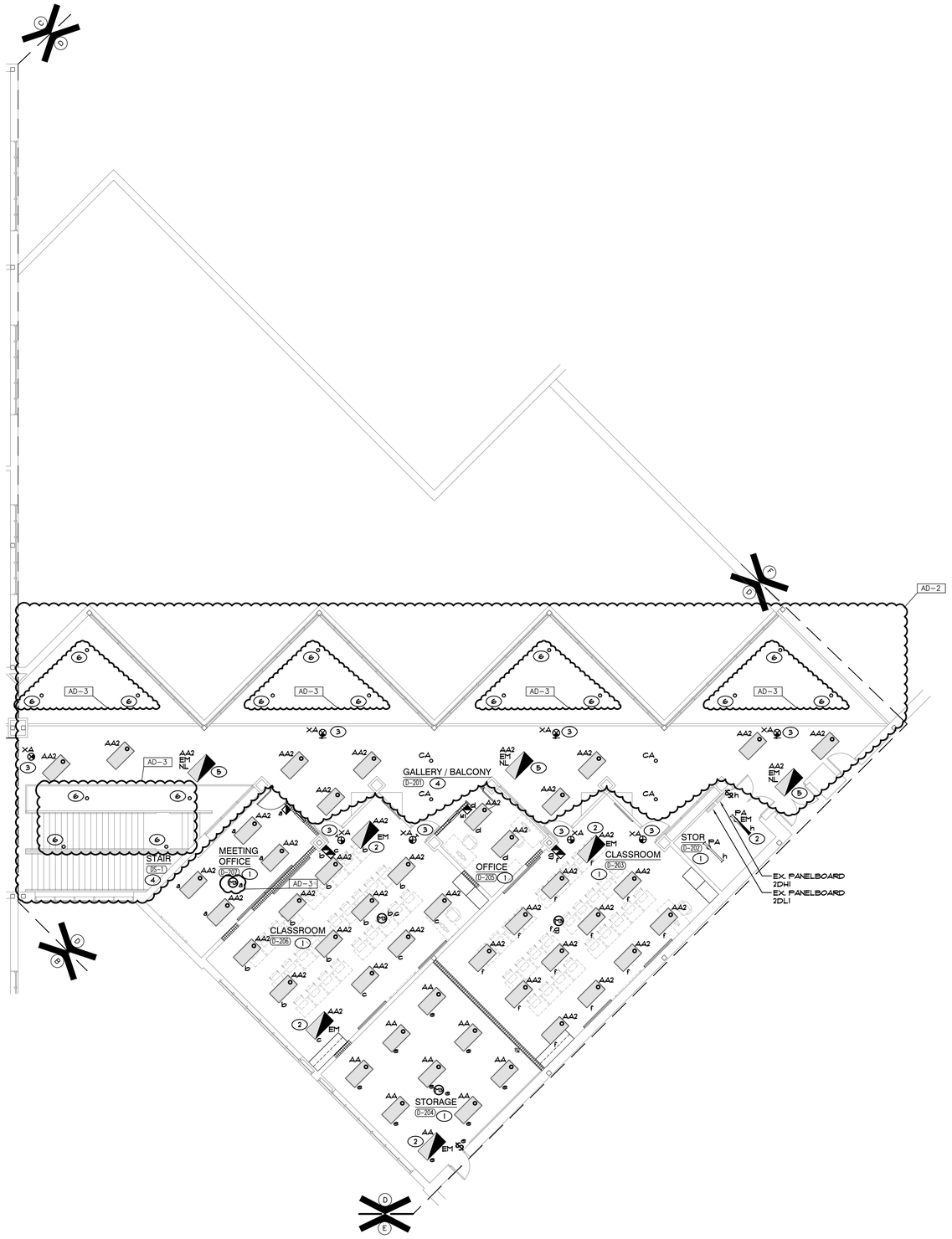
DRAWING
UNIT "C" ELECTRICAL SECOND FLOOR LIGHTING PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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UNIT "D" ELECTRICAL SECOND FLOOR LIGHTING PLAN

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

NORTH

GENERAL NOTES

AD-2

1. 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.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHT FIXTURES.
3. ROUTE CONDUIT AS TIGHT TO THE EXPOSED CEILINGS AND STRUCTURE AS POSSIBLE TO MAXIMIZE CEILING SPACE.
4. 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 4400W PER 277 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 #12 AND 1 #12 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 4400W PER 277 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 #12 AND 1 #12 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 4400W PER 277 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 #12 AND 1 #12 GRD IN 3/4" CONDUIT COMPLETE AS REQUIRED. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.

AD-2

4. RECONNECT NEW CORRIDOR LIGHTING FIXTURES IN THIS SPACE TO EXISTING CORRIDOR LIGHTING CIRCUITRY AND EXISTING CONTACTOR CONTROLS, COMPLETE AS REQUIRED, MAXIMUM 4400W PER 277 VOLT CIRCUIT. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.
5. RECONNECT NEW CORRIDOR EMERGENCY LIGHTING FIXTURES TO EXISTING UNSWITCHED CORRIDOR EMERGENCY LIGHTING CIRCUITRY, COMPLETE AS REQUIRED, MAXIMUM 4400W PER 277 VOLT CIRCUIT. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.

AD-3

6. EXISTING METAL HALIDE FIXTURE TO BE RELAMPED. PROVIDE NEW LED RETRO FIT LAMP, 4000K, EX39 BASE, OMNI-DIRECTIONAL, 54W OR EQUAL. VERIFY EXISTING LAMPING AND FIXTURE SPACE REQUIREMENTS IN FIELD PRIOR TO ORDERING.

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PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

SECOND FLOOR KEY PLAN

FIRST FLOOR KEY PLAN

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PROJECT 21-106
DATE 03/14/22
COORDINATED BY SM
DRAWN BY BAK/AG/MD
CHECKED BY DJ

REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER DAVID G. JANNEY

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AD-2	04/06/22	ADDENDUM NO. 2
AD-3	04/11/22	ADDENDUM NO. 3

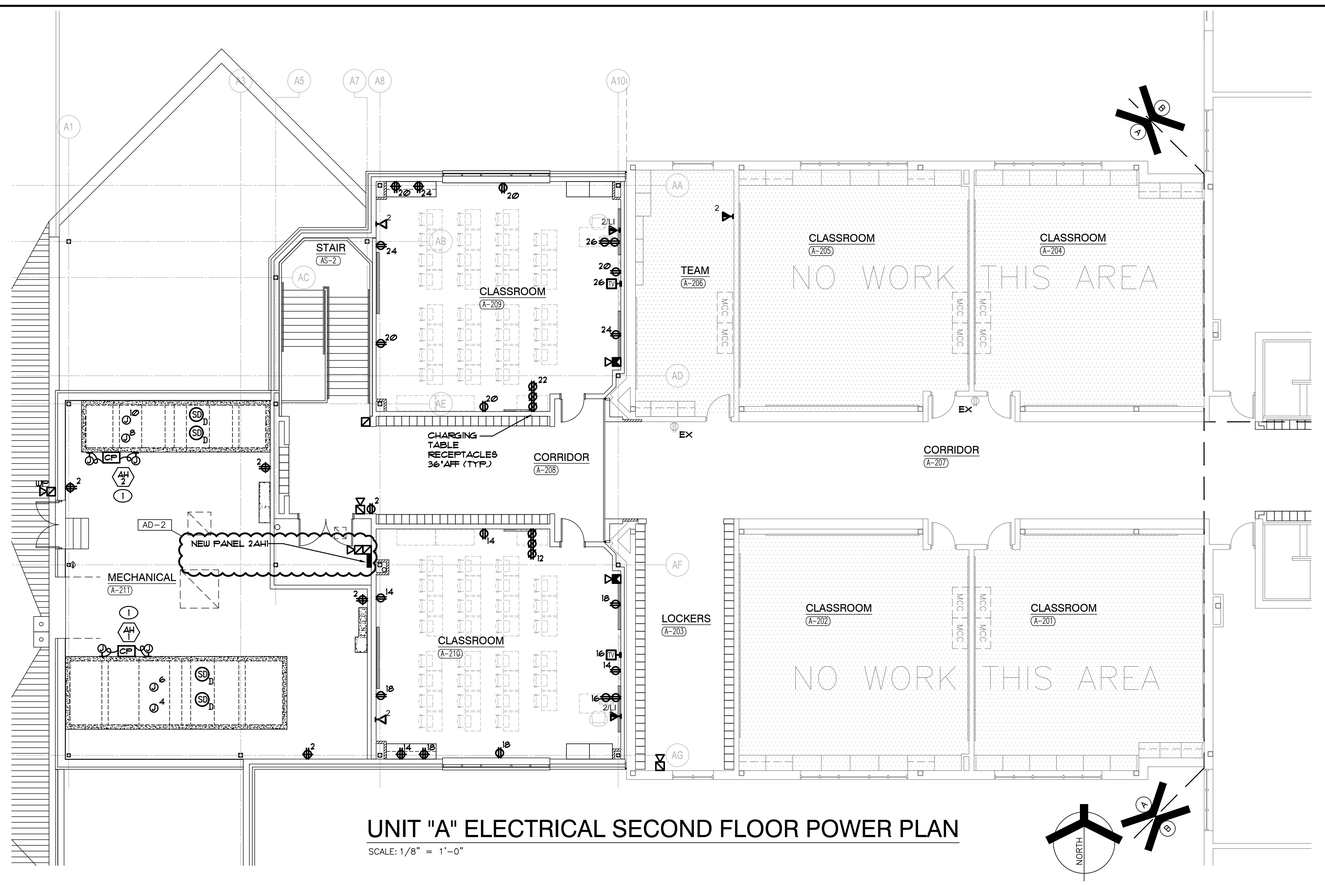
DRAWING
UNIT "D" ELECTRICAL SECOND FLOOR LIGHTING PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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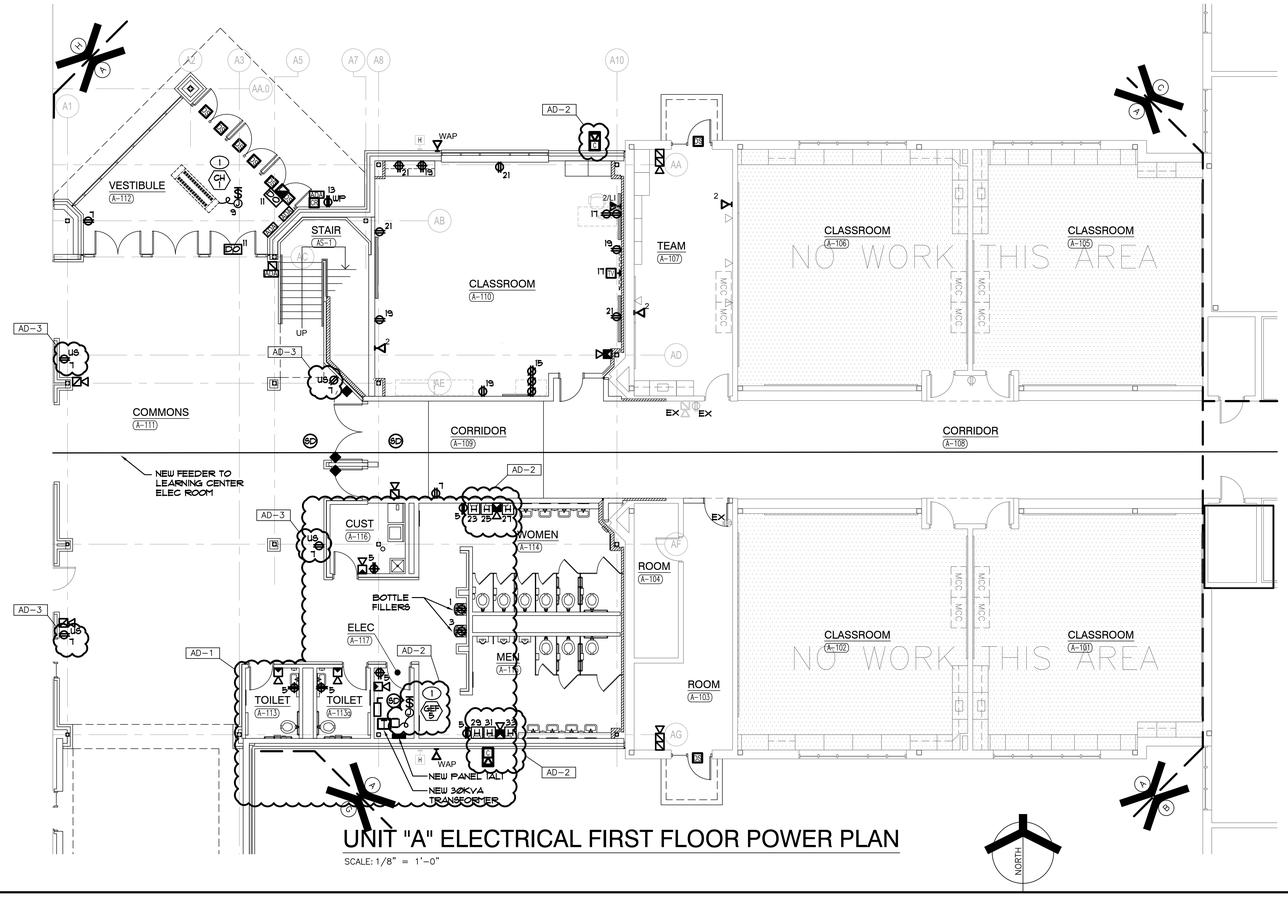
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UNIT "A" ELECTRICAL SECOND FLOOR POWER PLAN

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



UNIT "A" ELECTRICAL FIRST FLOOR POWER PLAN

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

GENERAL NOTES

1. CIRCUIT ALL DEVICES TO NEW PANEL 1AL1 UNLESS OTHERWISE NOTED.
2. PROVIDE ALL LABOR AND MATERIAL TO PROVIDE THE NECESSARY ROUGH-INS, RACEWAYS AND ELECTRICAL SERVICES FOR ALL OF THE ACCESS CONTROL, SOUND SYSTEMS, TECHNOLOGY SYSTEMS AND EQUIPMENT. SEE TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR LOCATIONS OF DEVICES/EQUIPMENT, MOUNTING HEIGHTS AND ELECTRICAL REQUIREMENTS. COORDINATE AND VERIFY EXACT LOCATIONS OF ALL OF THESE ROUGH-INS AND REQUIREMENTS WITH TECH D'YNE, ARCHITECT, OWNER, CONSTRUCTION MANAGER AND DIVISION 27 CONTRACTOR PRIOR TO ROUGHING-IN.

SHEET NOTES

1. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL CIRCUITING AND WIRING INFORMATION.

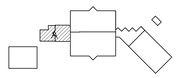
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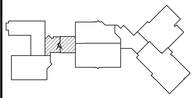
PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA



SECOND FLOOR KEY PLAN



FIRST FLOOR KEY PLAN

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PROJECT 21-106
DATE 03/14/22
COORDINATED BY SM
DRAWN BY BAK/AG/MD
CHECKED BY DJ

REGISTERED DAVID G. JANNEY NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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AD-1	03/28/22	ADDENDUM NO. 1
AD-2	04/06/22	ADDENDUM NO. 2
AD-3	04/11/22	ADDENDUM NO. 3

DRAWING
UNIT "A" ELECTRICAL FIRST & SECOND FLOOR POWER PLANS

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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GENERAL NOTES

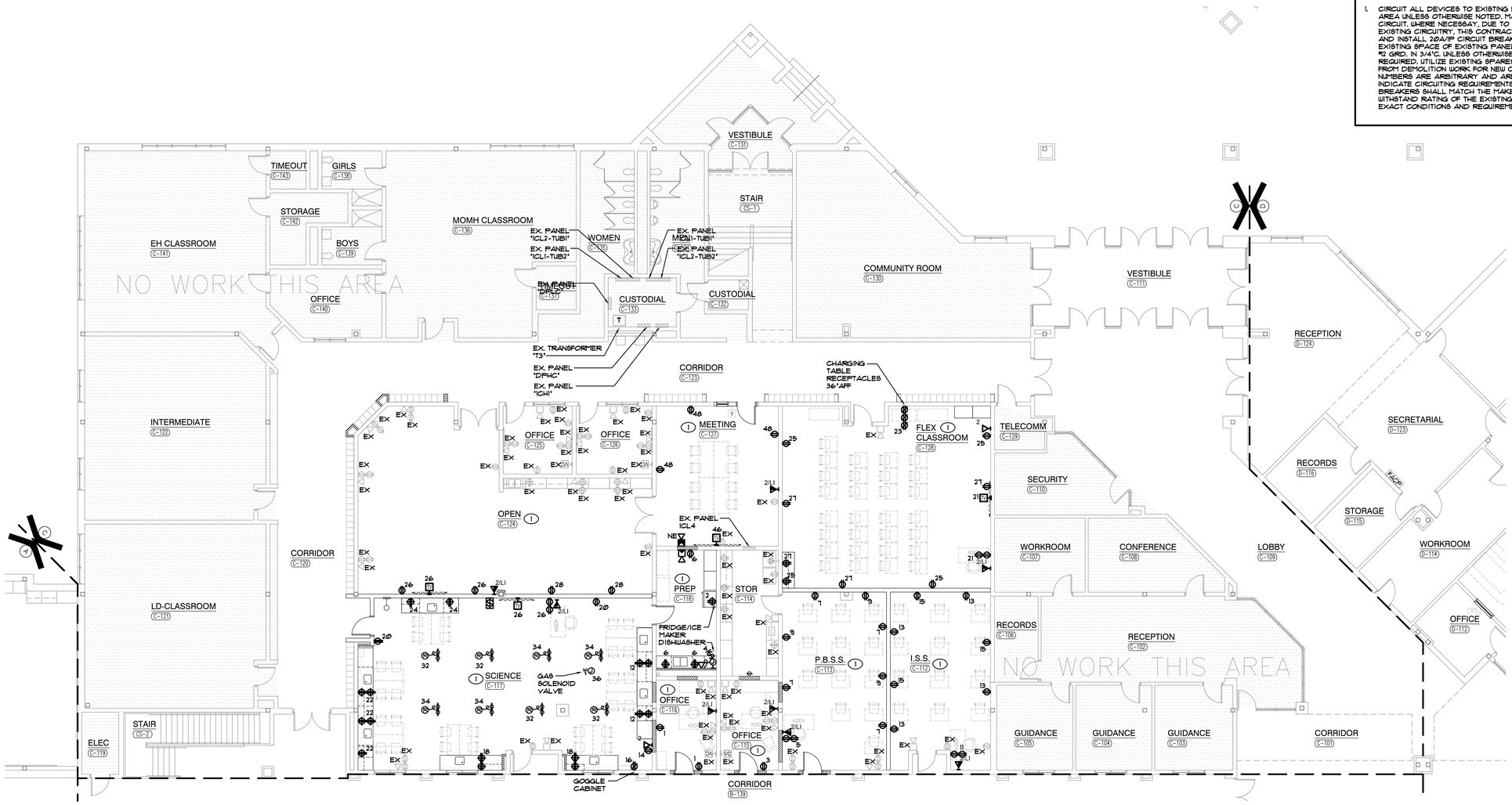
1. PROVIDE ALL LABOR AND MATERIAL TO PROVIDE THE NECESSARY ROUGH-INS, RACEWAYS AND ELECTRICAL SERVICES FOR ALL OF THE ACCESS CONTROL, SOUND SYSTEMS, TECHNOLOGY SYSTEMS AND EQUIPMENT. SEE TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR LOCATIONS OF DEVICES/EQUIPMENT, MOUNTING HEIGHTS AND ELECTRICAL REQUIREMENTS. COORDINATE AND VERIFY EXACT LOCATIONS OF ALL OF THESE ROUGH-INS AND REQUIREMENTS WITH TECH DYNE, ARCHITECT, OWNER, CONSTRUCTION MANAGER AND DIVISION 27 CONTRACTOR PRIOR TO ROUGHING-IN.

AD-3

2. CUT AND PATCH EXISTING GYPSUM WALLS AS REQUIRED TO INSTALL NEW DEVICES. REPAIR SURFACES TO MATCH EXISTING OR NEW FINISH.
3. CONTRACTOR SHALL PROVIDE NEW NEATLY ROUTED SURFACE RACEWAY AND SURFACE RACEWAY BACKBOXES FOR NEW DEVICES LOCATED ON EXISTING MASONRY WALLS. CONTRACTOR SHALL VERIFY EXACT ROUTING OF SURFACE RACEWAY WITH ARCHITECT PRIOR TO INSTALLATION.
4. ALL EXISTING TO REMAIN RECEPTACLES LABELED AS 'EX' WITHIN AREA WITH NEW WORK SHALL BE REPLACED WITH NEW WIRING DEVICE, FACE PLATE AND COVER PLATE MATCHING NEW DEVICES, COMPLETE AS REQUIRED.

SHEET NOTES

1. CIRCUIT ALL DEVICES TO EXISTING PANEL SERVING THIS AREA UNLESS OTHERWISE NOTED. MAXIMUM 1440W PER 120V CIRCUIT. WHERE NECESSAY, DUE TO LIMITATIONS ON THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A/1P CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL AND EXTEND 2 #12 & 1 #12 GRD. IN 3/4"C. UNLESS OTHERWISE NOTED. COMPLETE AS REQUIRED. UTILIZE EXISTING SPARES MADE AVAILABLE FROM DEMOLITION WORK FOR NEW CIRCUITING. CIRCUIT NUMBERS ARE ARBITRARY AND ARE ONLY SHOWN TO INDICATE CIRCUITING REQUIREMENTS. NEW CIRCUIT BREAKERS SHALL MATCH THE MAKE, MODEL AND WITHSTAND RATING OF THE EXISTING PANELBOARD. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.



UNIT "C" ELECTRICAL FIRST FLOOR POWER PLAN

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

NORTH

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PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

SECOND FLOOR KEY PLAN

FIRST FLOOR KEY PLAN

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AD-3	04/11/22	ADDENDUM NO. 3

DRAWING
UNIT "C" ELECTRICAL FIRST FLOOR POWER PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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GENERAL NOTES

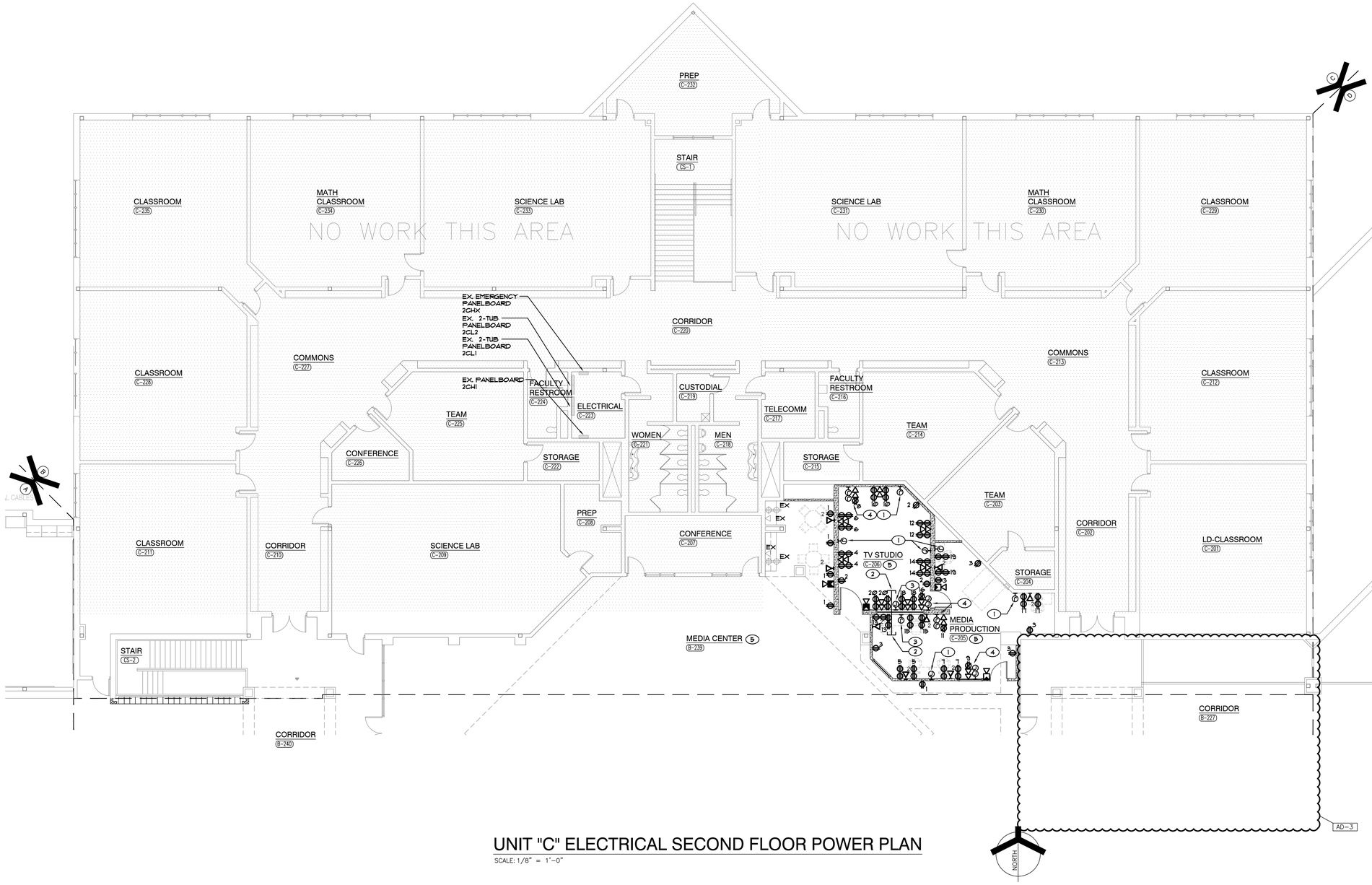
1. PROVIDE ALL LABOR AND MATERIAL TO PROVIDE THE NECESSARY ROUGH-INS, RACEWAYS AND ELECTRICAL SERVICES FOR ALL OF THE ACCESS CONTROL, SOUND SYSTEMS, TECHNOLOGY SYSTEMS AND EQUIPMENT. SEE TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR LOCATIONS OF DEVICES/EQUIPMENT, MOUNTING HEIGHTS AND ELECTRICAL REQUIREMENTS. COORDINATE AND VERIFY EXACT LOCATIONS OF ALL OF THESE ROUGH-INS AND REQUIREMENTS WITH TECH DYNE, ARCHITECT, OWNER, CONSTRUCTION MANAGER AND DIVISION 27 CONTRACTOR PRIOR TO ROUGHING-IN.

AD-3

2. CUT AND PATCH EXISTING GYPSUM WALLS AS REQUIRED TO INSTALL NEW DEVICES. REPAIR SURFACES TO MATCH EXISTING OR NEW FINISH.
3. CONTRACTOR SHALL PROVIDE NEW NEATLY ROUTED SURFACE RACEWAY AND SURFACE RACEWAY BACKBOXES FOR NEW DEVICES LOCATED ON EXISTING MASONRY WALLS. CONTRACTOR SHALL VERIFY EXACT ROUTING OF SURFACE RACEWAY WITH ARCHITECT PRIOR TO INSTALLATION.
4. ALL EXISTING TO REMAIN RECEPTACLES LABELED AS 'EX' WITHIN AREA WITH NEW WORK SHALL BE REPLACED WITH NEW WIRING DEVICE, FACE PLATE AND COVER PLATE MATCHING NEW DEVICES, COMPLETE AS REQUIRED.

SHEET NOTES

1. PROVIDE TWO (2) GANG BACKBOX LOCATED 12" AFF WITH THREE (3) 3/4" CONDUITS STUBBED TO ACCESSIBLE CEILING SPACE.
2. PROVIDE TWO (2) 2" CONDUIT SLEEVES IN ACCESSIBLE CEILING SPACE TO ALLOW LOW VOLTAGE CABLING TO BE ROUTED BETWEEN ROOMS.
3. PROVIDE ONE (1) TWO GANG BACKBOX ON EACH SIDE OF WALL (MOUNTED AT 12" AFF) WITH FOUR (4) 3/4" CONDUITS ROUTED BETWEEN WALL BOXES.
4. PROVIDE RECEPTACLE, DATA OUTLETS AND SINGLE GANG BACKBOX LOCATED AT 12" BELOW CEILING. PROVIDE ONE (1) 3/4" CONDUIT FROM BACKBOX TO ACCESSIBLE CEILING SPACE.
5. CIRCUIT ALL DEVICES TO EXISTING PANEL SERVING THIS AREA UNLESS OTHERWISE NOTED. MAXIMUM 1400W PER 120V CIRCUIT, WHERE NECESSAY, DUE TO LIMITATIONS ON THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A/1P CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL AND EXTEND 2 #12 & 1 #12 GRD. IN 3/4"C. UNLESS OTHERWISE NOTED, COMPLETE AS REQUIRED. UTILIZE EXISTING SPARES MADE AVAILABLE FROM DEMOLITION WORK FOR NEW CIRCUITING. CIRCUIT NUMBERS ARE ARBITRARY AND ARE ONLY SHOWN TO INDICATE CIRCUITING REQUIREMENTS. NEW CIRCUIT BREAKERS SHALL MATCH THE MAKE, MODEL AND WITHSTAND RATING OF THE EXISTING PANELBOARD. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.



UNIT "C" ELECTRICAL SECOND FLOOR POWER PLAN

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

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PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

SECOND FLOOR KEY PLAN

FIRST FLOOR KEY PLAN

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PROJECT 21-106
DATE 03/14/22
COORDINATED BY SM
DRAWN BY BAK/AG/MD
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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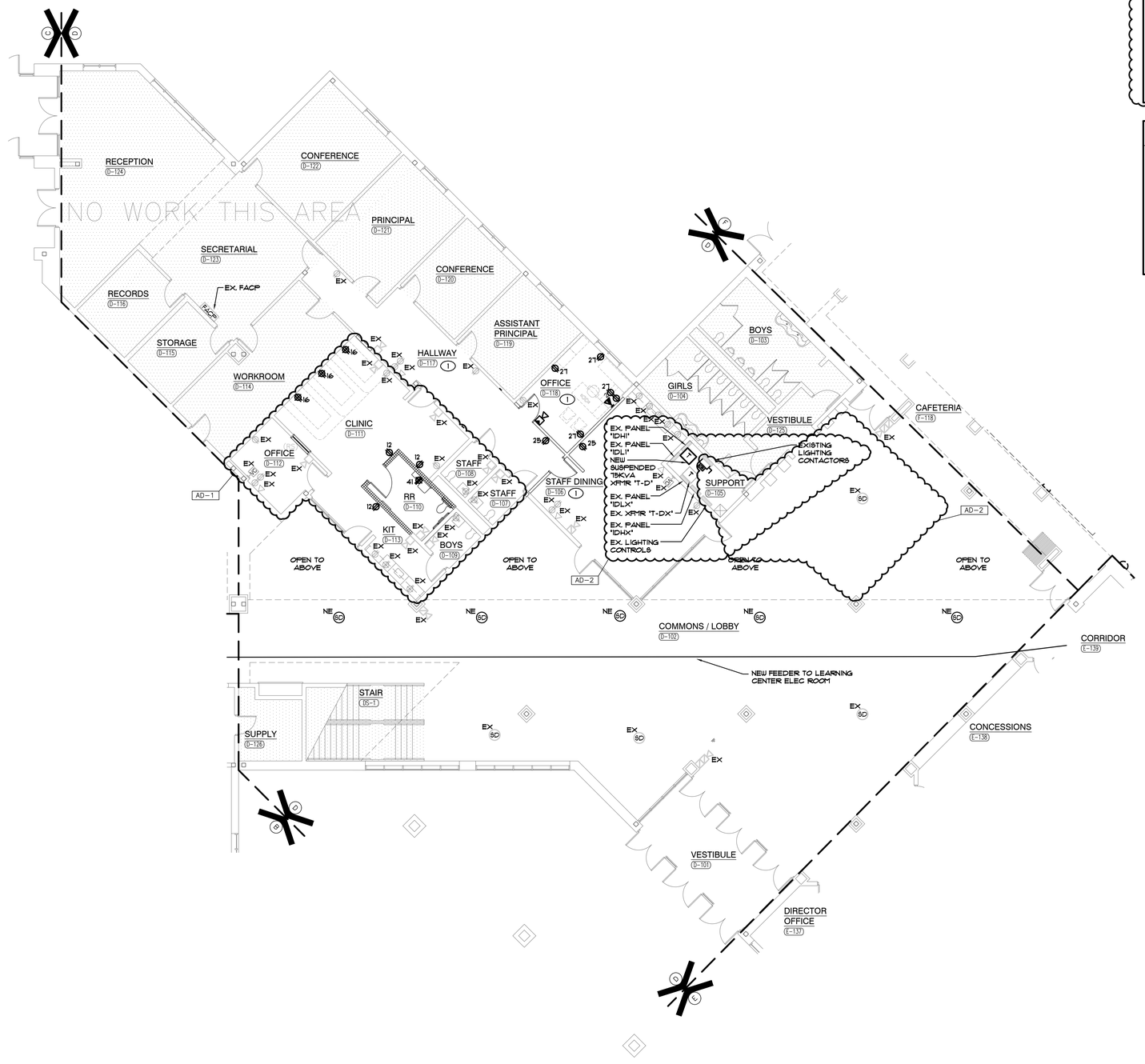
DRAWING
UNIT "C" ELECTRICAL SECOND FLOOR LIGHTING PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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UNIT "D" ELECTRICAL FIRST FLOOR POWER PLAN

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



GENERAL NOTES

1. PROVIDE ALL LABOR AND MATERIAL TO PROVIDE THE NECESSARY ROUGH-INS, RACEWAYS AND ELECTRICAL SERVICES FOR ALL OF THE ACCESS CONTROL, SOUND SYSTEMS, TECHNOLOGY SYSTEMS AND EQUIPMENT. SEE TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR LOCATIONS OF DEVICES/EQUIPMENT, MOUNTING HEIGHTS AND ELECTRICAL REQUIREMENTS. COORDINATE AND VERIFY EXACT LOCATIONS OF ALL OF THESE ROUGH-INS AND REQUIREMENTS WITH TECH DYNE, ARCHITECT, OWNER, CONSTRUCTION MANAGER AND DIVISION 21 CONTRACTOR PRIOR TO ROUGHING-IN.

AD-3

2. CUT AND PATCH EXISTING GYPSUM WALLS AS REQUIRED TO INSTALL NEW DEVICES. REPAIR SURFACES TO MATCH EXISTING OR NEW FINISH.
3. CONTRACTOR SHALL PROVIDE NEW NEATLY ROUTED SURFACE RACEWAY AND SURFACE RACEWAY BACKBOXES FOR NEW DEVICES LOCATED ON EXISTING MASONRY WALLS. CONTRACTOR SHALL VERIFY EXACT ROUTING OF SURFACE RACEWAY WITH ARCHITECT PRIOR TO INSTALLATION.
4. ALL EXISTING TO REMAIN RECEPTACLES LABELED AS 'EX' WITHIN AREA WITH NEW WORK SHALL BE REPLACED WITH NEW WIRING DEVICE, FACE PLATE AND COVER PLATE MATCHING NEW DEVICES, COMPLETE AS REQUIRED.

SHEET NOTES

1. CIRCUIT ALL DEVICES TO EXISTING PANEL SERVING THIS AREA UNLESS OTHERWISE NOTED. MAXIMUM 1440W PER 120V CIRCUIT, WHERE NECESSARY, DUE TO LIMITATIONS ON THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A/1P CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL AND EXTEND 2 #12 4 1 #2 GRD. IN 3/4"C. UNLESS OTHERWISE NOTED. COMPLETE AS REQUIRED. UTILIZE EXISTING SPARES MADE AVAILABLE FROM DEMOLITION WORK FOR NEW CIRCUITING. CIRCUIT NUMBERS ARE ARBITRARY AND ARE ONLY SHOWN TO INDICATE CIRCUITING REQUIREMENTS. NEW CIRCUIT BREAKERS SHALL MATCH THE MAKE, MODEL AND WITHSTAND RATING OF THE EXISTING PANELBOARD. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.

SECOND FLOOR KEY PLAN

FIRST FLOOR KEY PLAN

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COORDINATED BY
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DRAWN BY
BAK/AG/MD
CHECKED BY
DJ

REGISTERED PROFESSIONAL ENGINEER
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STATE OF INDIANA

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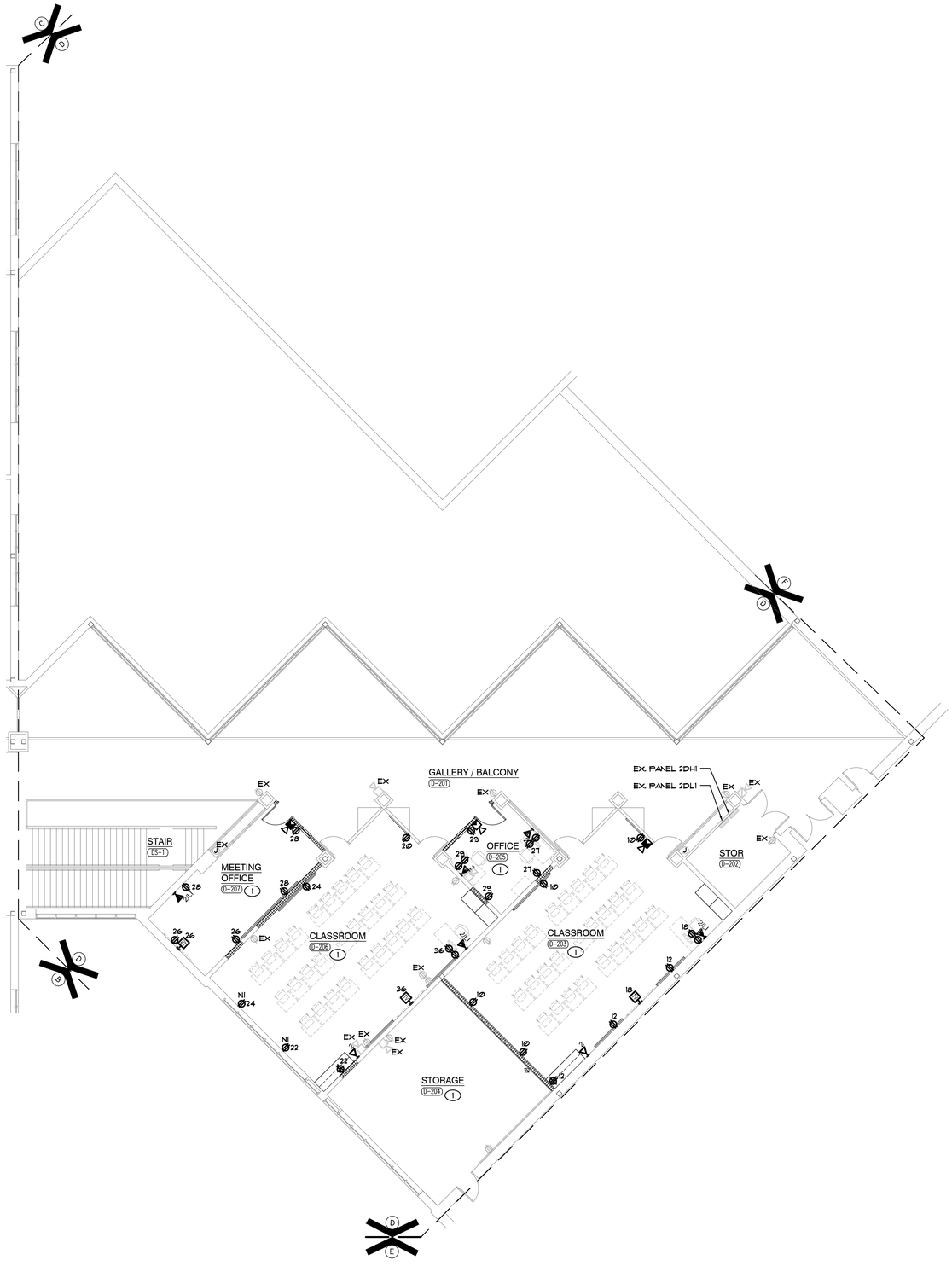
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PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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UNIT "D" ELECTRICAL SECOND FLOOR POWER PLAN

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

NORTH

GENERAL NOTES

1. PROVIDE ALL LABOR AND MATERIAL TO PROVIDE THE NECESSARY ROUGH-INS, RACEWAYS AND ELECTRICAL SERVICES FOR ALL OF THE ACCESS CONTROL, SOUND SYSTEMS, TECHNOLOGY SYSTEMS AND EQUIPMENT. SEE TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR LOCATIONS OF DEVICES/EQUIPMENT, MOUNTING HEIGHTS AND ELECTRICAL REQUIREMENTS. COORDINATE AND VERIFY EXACT LOCATIONS OF ALL OF THESE ROUGH-INS AND REQUIREMENTS WITH TECH DYNE, ARCHITECT, OWNER, CONSTRUCTION MANAGER AND DIVISION 27 CONTRACTOR PRIOR TO ROUGHING-IN.

AD-3

2. CUT AND PATCH EXISTING GYPSUM WALLS AS REQUIRED TO INSTALL NEW DEVICES. REPAIR SURFACES TO MATCH EXISTING OR NEW FINISH.
3. CONTRACTOR SHALL PROVIDE NEW NEATLY ROUTED SURFACE RACEWAY AND SURFACE RACEWAY BACKBOXES FOR NEW DEVICES LOCATED ON EXISTING MASONRY WALLS. CONTRACTOR SHALL VERIFY EXACT ROUTING OF SURFACE RACEWAY WITH ARCHITECT PRIOR TO INSTALLATION.
4. ALL EXISTING TO REMAIN RECEPTACLES LABELED AS 'EX' WITHIN AREA WITH NEW WORK SHALL BE REPLACED WITH NEW WIRING DEVICE, FACE PLATE AND COVER PLATE MATCHING NEW DEVICES, COMPLETE AS REQUIRED.

SHEET NOTES

1. CIRCUIT ALL DEVICES TO EXISTING PANEL SERVING THIS AREA UNLESS OTHERWISE NOTED. MAXIMUM 1400W PER 120V CIRCUIT. WHERE NECESSARY, DUE TO LIMITATIONS ON THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A/1P CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL AND EXTEND 2 #12 & 1 #2 GRD. IN 3/4"C. UNLESS OTHERWISE NOTED, COMPLETE AS REQUIRED. UTILIZE EXISTING SPARES MADE AVAILABLE FROM DEMOLITION WORK FOR NEW CIRCUITING. CIRCUIT NUMBERS ARE ARBITRARY AND ARE ONLY SHOWN TO INDICATE CIRCUITING REQUIREMENTS. NEW CIRCUIT BREAKERS SHALL MATCH THE MAKE, MODEL AND WITHSTAND RATING OF THE EXISTING PANELBOARD. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.

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PROJECT
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CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

SECOND FLOOR KEY PLAN

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PROJECT
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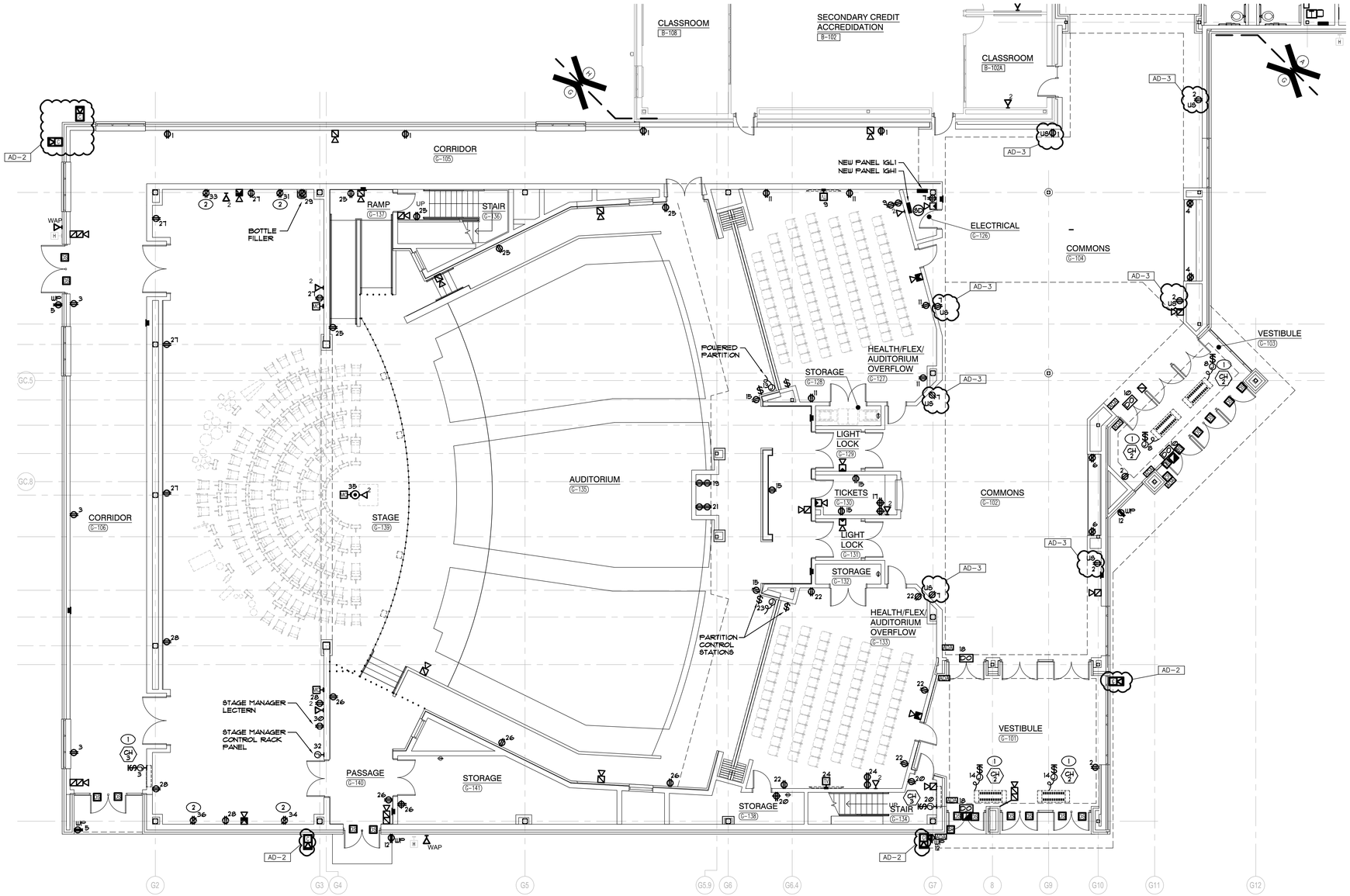
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SHEET NOTES

1. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL CIRCUITING AND WIRING INFORMATION.
2. WORK LIGHT RECEPTACLE. ROUTE CIRCUITING THROUGH SOLENOID CONTROL PANEL FOR CONTROL OF WORK LIGHT. COORDINATE MOUNTING HEIGHT AND LOCATION IN FIELD.

GENERAL NOTES

1. CIRCUIT ALL DEVICES TO NEW PANEL 1GL1 UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL FULLY REVIEW THE THEATRICAL LIGHTING AND POWER DRAWINGS AS PART OF THE CONTRACT DOCUMENT REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE ALL POWER, LOW VOLTAGE, AND LOW VOLTAGE ROUGH-INS AS REQUIRED AND AS SHOWN ON THE THEATRICAL DRAWINGS FOR A COMPLETE AND PROPER INSTALLATION OF ALL SYSTEMS. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD AND WITH THEATRICAL DRAWINGS, COMPLETE AS REQUIRED.
3. PROVIDE ALL LABOR AND MATERIAL TO PROVIDE THE NECESSARY ROUGH-INS, RACEWAYS AND ELECTRICAL SERVICES FOR ALL OF THE ACCESS CONTROL SOUND SYSTEMS, TECHNOLOGY SYSTEMS AND EQUIPMENT. SEE TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR LOCATIONS OF DEVICES/EQUIPMENT, MOUNTING HEIGHTS AND ELECTRICAL REQUIREMENTS. COORDINATE AND VERIFY EXACT LOCATIONS OF ALL ROUGH-INS AND REQUIREMENTS WITH TECH DYNE, ARCHITECT, OWNER, CONSTRUCTION MANAGER AND DIVISION 27 CONTRACTOR PRIOR TO ROUGHING-IN.



UNIT "G" ELECTRICAL FIRST FLOOR POWER PLAN

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

NORTH

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PROJECT
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CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

SECOND FLOOR KEY PLAN

FIRST FLOOR KEY PLAN

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PROJECT 21-106
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REGISTERED PROFESSIONAL ENGINEER
DAVID G. JANNEY
NO. 10302590
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AD-2	04/06/22	ADDENDUM NO. 2
AD-3	04/11/22	ADDENDUM NO. 3

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PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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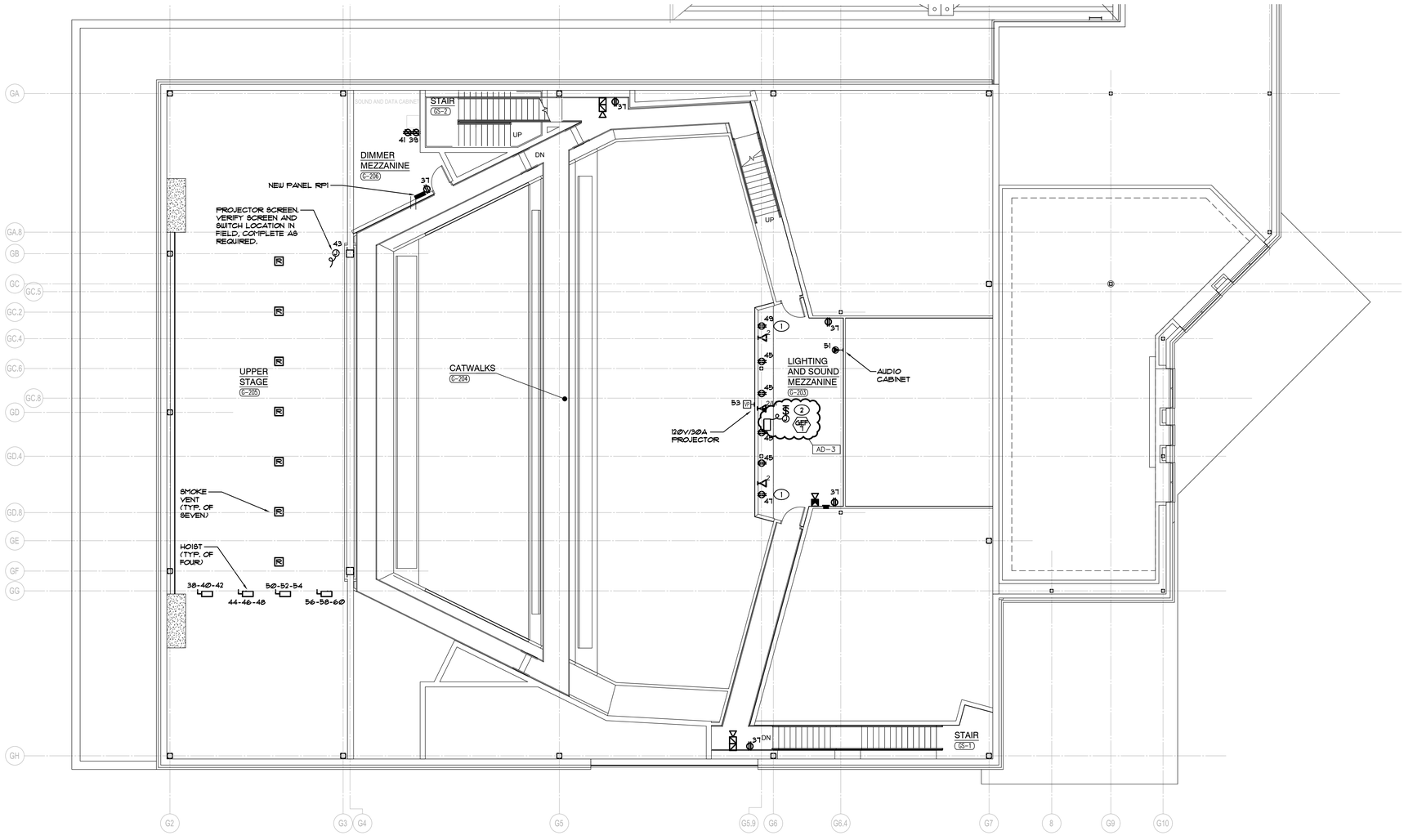
SHEET NOTES

AD-3

1. PROVIDE PERMANENT ENGRAVED PLATE LABEL ON RECEPTACLE COVERPLATE THAT READS "SPOTLIGHT".
2. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL CIRCUITING AND WIRING INFORMATION.

GENERAL NOTES

1. CIRCUIT ALL DEVICES TO NEW PANEL 1GL1 UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL FULLY REVIEW THE THEATRICAL LIGHTING AND POWER DRAWINGS AS PART OF THE CONTRACT DOCUMENT REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE ALL POWER, LOW VOLTAGE, AND LOW VOLTAGE ROUGH-INS AS REQUIRED AND AS SHOWN ON THE THEATRICAL DRAWINGS FOR A COMPLETE AND PROPER INSTALLATION OF ALL SYSTEMS. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD AND WITH THEATRICAL DRAWINGS, COMPLETE AS REQUIRED.
3. PROVIDE ALL LABOR AND MATERIAL TO PROVIDE THE NECESSARY ROUGH-INS, RACEWAYS AND ELECTRICAL SERVICES FOR ALL OF THE ACCESS CONTROL, SOUND SYSTEMS, TECHNOLOGY SYSTEMS AND EQUIPMENT. SEE TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR LOCATIONS OF DEVICES/EQUIPMENT, MOUNTING HEIGHTS AND ELECTRICAL REQUIREMENTS. COORDINATE AND VERIFY EXACT LOCATIONS OF ALL ROUGH-INS AND REQUIREMENTS WITH TECH DYNE, ARCHITECT, OWNER, CONSTRUCTION MANAGER AND DIVISION 27 CONTRACTOR PRIOR TO ROUGHING-IN.



UNIT "G" ELECTRICAL SECOND FLOOR POWER PLAN

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

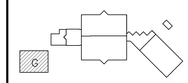
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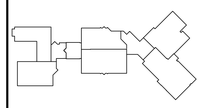
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PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA



SECOND FLOOR KEY PLAN



FIRST FLOOR KEY PLAN

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DRAWN BY BAK/AG/MD
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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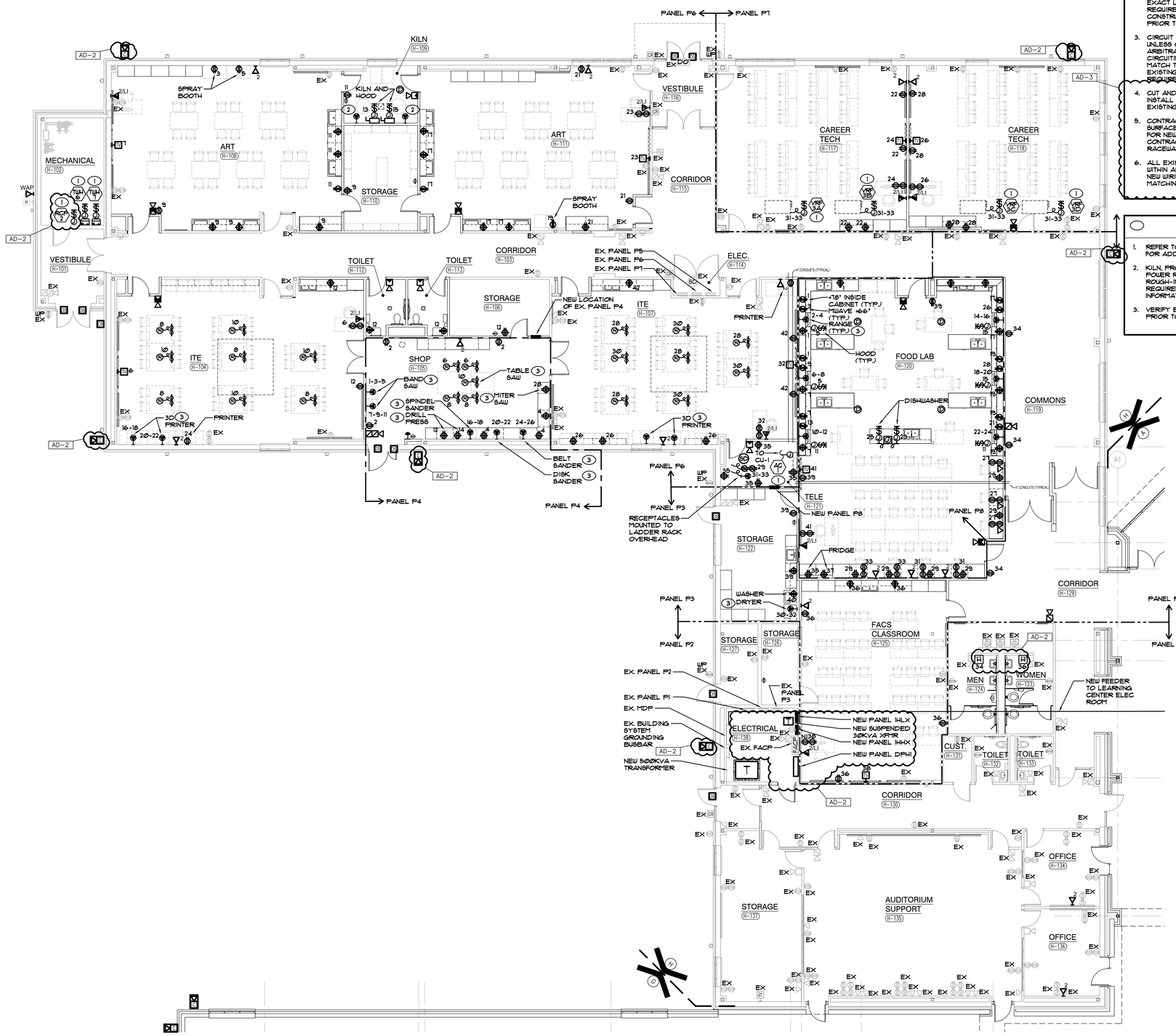
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UNIT "H" ELECTRICAL FIRST FLOOR POWER PLAN

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

GENERAL NOTES

1. CIRCUIT ALL DEVICES TO PANEL INDICATED BY PANEL DIVISION LINES UNLESS OTHERWISE NOTED.
2. PROVIDE ALL LABOR AND MATERIAL TO PROVIDE THE NECESSARY ROUGH-INS, RACEWAYS AND ELECTRICAL SERVICES FOR ALL OF THE ACCESS CONTROL, SOUND SYSTEMS, TECHNOLOGY SYSTEMS AND EQUIPMENT. SEE TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR LOCATIONS OF DEVICES/EQUIPMENT, MOUNTING HEIGHTS AND ELECTRICAL REQUIREMENTS. COORDINATE AND VERIFY EXACT LOCATIONS OF ALL OF THESE ROUGH-INS AND REQUIREMENTS WITH TECH D'YNE ARCHITECT, OWNER, CONSTRUCTION MANAGER AND DIVISION 27 CONTRACTOR PRIOR TO ROUGHING-IN.
3. CIRCUIT ALL DEVICES TO EXISTING PANEL INDICATED UNLESS OTHERWISE NOTED. CIRCUIT NUMBERS ARE ARBITRARY AND ARE ONLY SHOWN TO INDICATE CIRCUITING REQUIREMENTS. NEW CIRCUIT BREAKERS SHALL MATCH THE MAKE, MODEL AND WITHSTAND RATING OF THE EXISTING PANELBOARD. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.
4. CUT AND PATCH EXISTING GYPSUM WALLS AS REQUIRED TO INSTALL NEW DEVICES. REPAIR SURFACES TO MATCH EXISTING OR NEW FINISH.
5. CONTRACTOR SHALL PROVIDE NEW NEATLY ROUTED SURFACE RACEWAY AND SURFACE RACEWAY BACKBOXES FOR NEW DEVICES LOCATED ON EXISTING MASONRY WALLS. CONTRACTOR SHALL VERIFY EXACT ROUTING OF SURFACE RACEWAY WITH ARCHITECT PRIOR TO INSTALLATION.
6. ALL EXISTING TO REMAIN RECEPTACLES LABELED AS 'EX' WITHIN AREA WITH NEW WORK SHALL BE REPLACED WITH NEW WIRING DEVICE, FACE PLATE AND COVER PLATE MATCHING NEW DEVICES, COMPLETE AS REQUIRED.

SHEET NOTES

1. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL CIRCUITING AND WIRING INFORMATION.
2. KILN, PROVIDE 3 #6 4 I #10 GRD. IN 1"C. VERIFY EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. PROPERLY INSTALL PER MANUFACTURER'S REQUIREMENTS. SEE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
3. VERIFY EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.

SECOND FLOOR KEY PLAN

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PROJECT
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DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

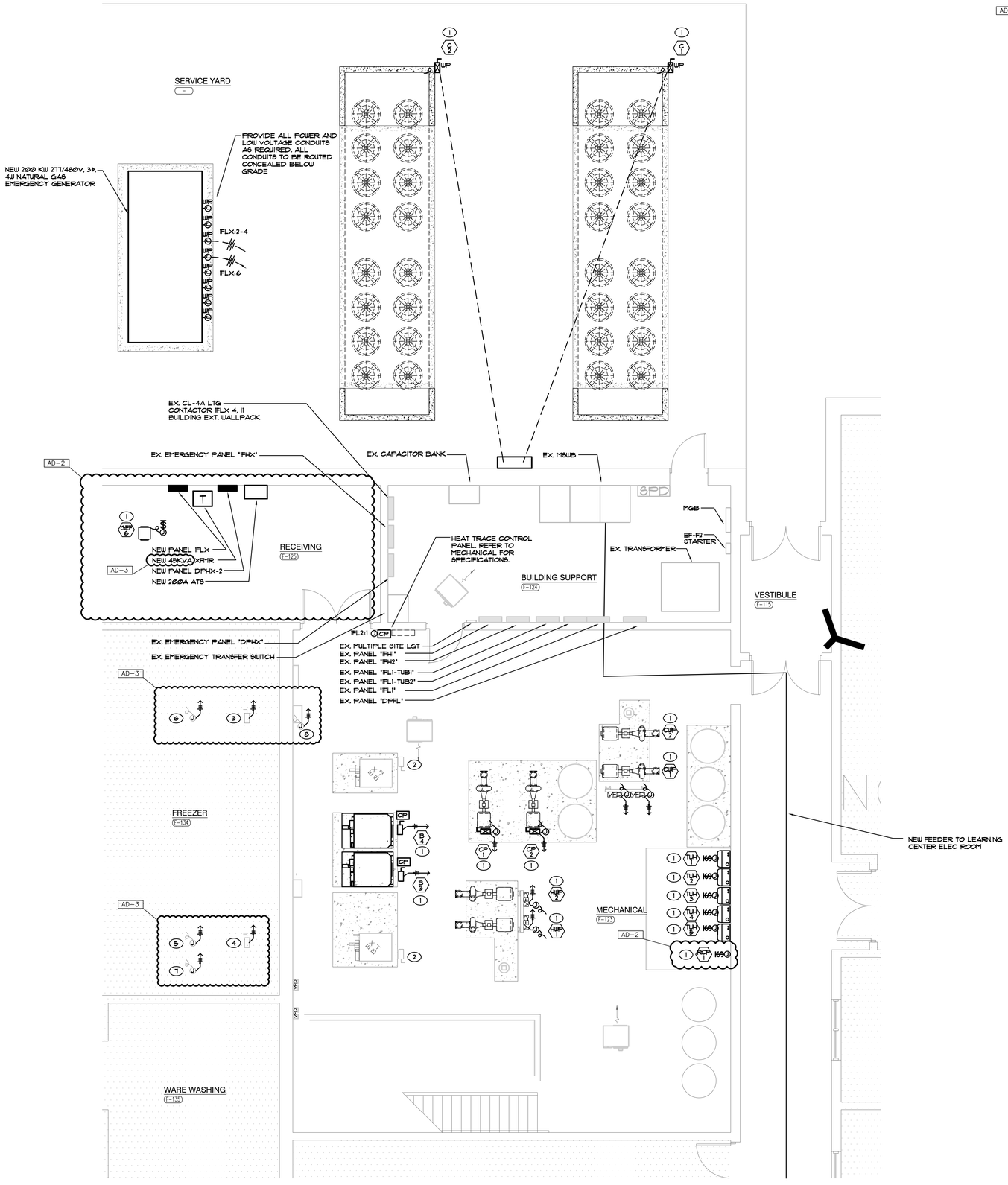
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SHEET NOTES

1. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL CIRCUITING AND WIRING INFORMATION.
2. INTERCEPT EXISTING BOILER CIRCUITRY AND EXTEND TO PANEL DPHX-2.
3. INTERCEPT EXISTING FREEZER COMPRESSOR CIRCUITRY AND EXTEND TO PANEL IFLX. VERIFY EXACT CONNECTION LOCATION IN FIELD, COMPLETE AS REQUIRED.
4. INTERCEPT EXISTING COOLER COMPRESSOR CIRCUITRY AND EXTEND TO PANEL IFLX. VERIFY EXACT CONNECTION LOCATION IN FIELD, COMPLETE AS REQUIRED.
5. INTERCEPT EXISTING COOLER CIRCUITRY AND EXTEND TO PANEL IFLX. VERIFY EXACT CONNECTION LOCATION IN FIELD, COMPLETE AS REQUIRED.
6. INTERCEPT EXISTING FREEZER CIRCUITRY AND EXTEND TO PANEL IFLX. VERIFY EXACT CONNECTION LOCATION IN FIELD, COMPLETE AS REQUIRED.
7. INTERCEPT EXISTING COOLER COIL CIRCUITRY AND EXTEND TO PANEL IFLX. VERIFY EXACT CONNECTION LOCATION IN FIELD, COMPLETE AS REQUIRED.
8. INTERCEPT EXISTING TEMPERATURE CONTROL PANEL CIRCUITRY AND EXTEND TO PANEL IFLX. COMPLETE AS REQUIRED.



ENLARGED ELECTRICAL POWER PLAN

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

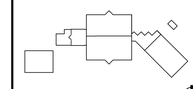
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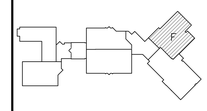
PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA



SECOND FLOOR KEY PLAN



FIRST FLOOR KEY PLAN

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PROJECT 21-106
DATE 03/14/22
COORDINATED BY SM
DRAWN BY BAK/AG/MD
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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REVISIONS

MARK	DATE	ISSUED FOR
AD-2	04/06/22	ADDENDUM NO. 2
AD-3	04/11/22	ADDENDUM NO. 3

DRAWING
ENLARGED ELECTRICAL POWER PLAN

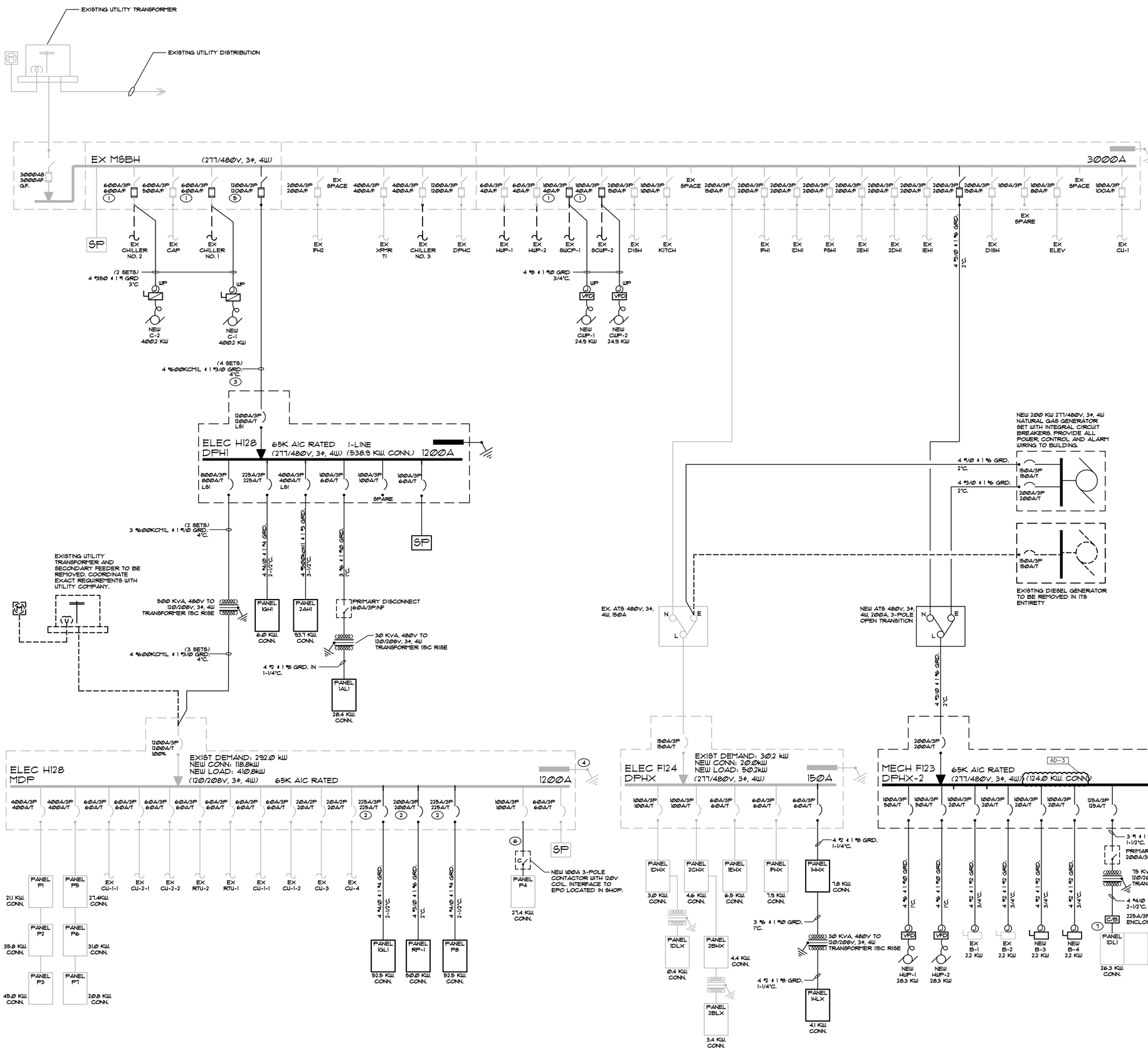
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EP120

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ELECTRICAL ONE-LINE SCHEMATIC DIAGRAM



GENERAL NOTES

1. PER SPECIFICATIONS PROVIDE AN ARC FLASH AND COORDINATION STUDY FOR NEW DISTRIBUTION EQUIPMENT. SUBMIT REPORT AND CERTIFIED TEST REPORTS AFTER INSTALLATION OF THE ELECTRICAL DISTRIBUTION SYSTEM. SUBMIT A PRELIMINARY COORDINATION STUDY WITH THE ELECTRICAL EQUIPMENT DURING SHOP DRAWINGS AND PRODUCT DATA SUBMISSION. SHOP DRAWINGS WILL BE REJECTED IF PRELIMINARY STUDY IS NOT INCLUDED.
2. CONDUCTOR SIZES SHOWN ARE BASED ON COPPER THWN IN METALLIC RACEWAYS EXCEPT WHERE UNDERGROUND. ALL CONDUCTORS SHOWN SHALL BE COPPER UNLESS OTHERWISE INDICATED.
3. EACH RACEWAY SHALL CONTAIN A CODE-SIZED EQUIPMENT GROUNDING CONDUCTOR.
4. VERIFY ACTUAL MECHANICAL EQUIPMENT POWER REQUIREMENTS WITH EQUIPMENT SUPPLIER. NOTIFY ENGINEER WITH DISCREPANCIES FROM DESIGN SHOWN ON THESE DOCUMENTS PRIOR TO ROUGH-IN.
5. PROVIDE 4" HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
6. PROVIDE SAFETY DISCONNECTS FOR MOTORS NOT LOCATED WITHIN SIGHT OF FEEDER BREAKER OR STARTER CAPABLE OF BEING LOCKED IN THE "OFF" POSITION.
7. DISCONNECT SWITCHES AND OTHER EQUIPMENT LOCATED OUTDOORS SHALL BE NEMA-3R RATED OR WEATHERPROOF TYPE UNLESS OTHERWISE NOTED.
8. PROVIDE RACEWAY SEALS FOR ALL RACEWAYS PENETRATING BUILDING EXTERIOR AND AIR HANDLER EQUIPMENT. SEALS ARE TO PREVENT AIR AND MOISTURE FROM TRAVELING INSIDE OR AROUND RACEWAY.
9. PROVIDE ALL REQUIRED UL924 TRANSFER DEVICES FOR SWITCHED EMERGENCY LIGHTING, AND ALL NECESSARY ACCESSORIES, COMPLETE AS REQUIRED.

SHEET NOTES

1. EXISTING EQUIPMENT FEEDER TO BE BE REPLACED. REMOVE EXISTING FEEDER AND EXISTING FUSES. PROVIDE NEW FEEDER AND FUSES AS INDICATED. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.
2. PROVIDE NEW CIRCUIT BREAKERS IN AVAILABLE SPACE OF EXISTING DISTRIBUTION PANELBOARD. REMOVE EXISTING 100A/3P AND 60A/3P SPARE BREAKERS AS REQUIRED TO ACCOMMODATE NEW CIRCUIT BREAKERS.
3. PROVIDE NEW FEEDER TO EXISTING MAIN SWITCHBOARD. ROUTE NEW FEEDER OVERHEAD CONCEALED IN ACCESSIBLE CEILING SPACES. WHERE REQUIRED TO RUN EXPOSED IN FINISHED AREAS, PAINT TO MATCH EXISTING FINISHES. SEE FLOOR PLANS FOR APPROXIMATE FEEDER ROUTING. PROVIDE ACCESSORY LUG KITS AS REQUIRED FOR TERMINATION OF OVERSIZED FEEDER AT OVERCURRENT DEVICES.
4. DISCONNECT EXISTING GROUND NEUTRAL BOND AND GROUNDING ELECTRODE CONNECTIONS. EXTEND EXISTING BUILDING GROUNDING ELECTRODE CONDUCTORS TO EXISTING MAIN ELECTRICAL ROOM GROUND BUS AND CONNECT.
5. PROVIDE NEW FUSED SWITCH IN AVAILABLE SPACE IN EXISTING SWITCHBOARD. FUSED SWITCH SHALL MATCH THE MAKE AND MANUFACTURER OF EXISTING SWITCHBOARD.
6. EXISTING PANEL TO BE RELOCATED. REMOVE EXISTING UNDERGROUND FEEDER CONDUCTORS, CUT DOWN EXISTING CONDUIT, CAP AND ABANDON. ROUTE NEW FEEDER OVERHEAD TO LOCATION INDICATED ON PLANS.
7. REMOVE EXISTING PANEL FEEDER CONDUIT AND WIRING BACK TO SOURCE PANEL AND LABEL SOURCE BREAKER AS SPARE. PROVIDE NEW PANEL FEEDER AS INDICATED, COMPLETE AS REQUIRED.

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REVISIONS

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AD-3	04/11/22	ADDENDUM NO. 3

DRAWING
ELECTRICAL ONE-LINE DIAGRAM

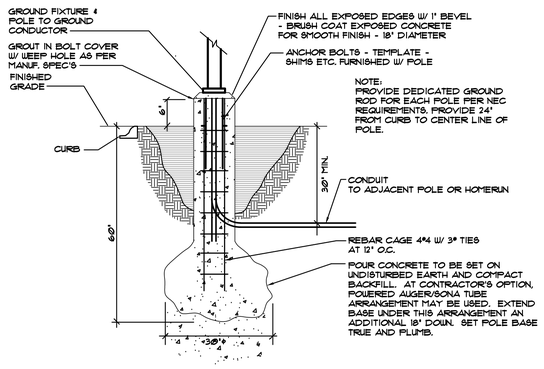
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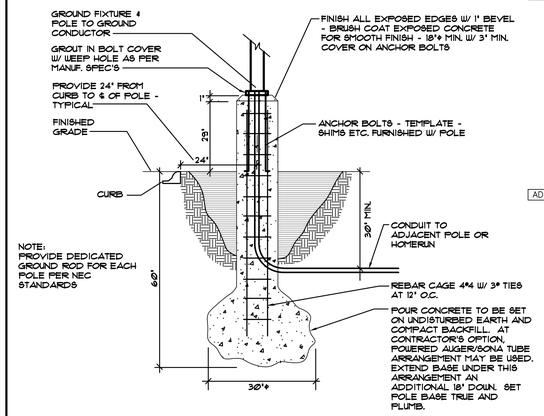
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6" POLE BASE DETAIL - GRASSY AREAS



TYPICAL 30" CONCRETE POLE BASE DETAIL - PARKING LOT AREAS

AD-3



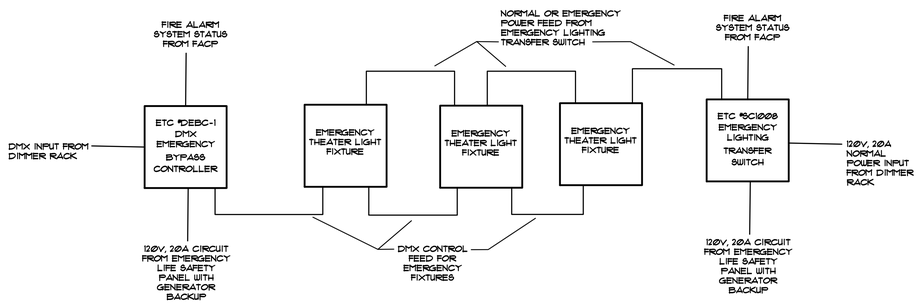
NOTE:
PROVIDE DEDICATED GROUND ROD FOR EACH POLE PER NEC STANDARDS

EXTERIOR LIGHTING LUMINAIRE SCHEDULE

TAG	SYMBOL	DESCRIPTION	MANUFACTURER SERIES OR CATALOG NUMBER	VOLTAGE/ BALLAST	LAMPS/CROSS SECTION	MOUNTING	REMARKS
EA		EXTERIOR LED FIXTURE MOUNTED ON A STRAIGHT, ROUND ALUMINUM POLE	LITHONIA *DSXI LED-P6-50K-T4M-MVOLT-RPA-DDBXD NO SUBSTITUTIONS	MVOLT	LED 5000K MIN 18811LM MAX 163W	POLE MTD 25'-0" AFG	-VERIFY AND MATCH POLE HEIGHT OF EXISTING FIXTURES
EA1		EXTERIOR LED FIXTURE MOUNTED ON A STRAIGHT, ROUND ALUMINUM POLE	LITHONIA *DSXI LED-P6-50K-T2M-MVOLT-RPA-DDBXD NO SUBSTITUTIONS	MVOLT	LED 5000K MIN 19331LM MAX 163W	POLE MTD 25'-0" AFG	-VERIFY AND MATCH POLE HEIGHT OF EXISTING FIXTURES
EB		EXTERIOR LED WALL MOUNTED LIGHT FIXTURE	LITHONIA *WPXI-P2-50K-MVOLT-DDBXD OR APPROVED EQUAL BY HUBBELL OR MCGRAW	MVOLT	LED 5000K MIN 2980LM MAX 24W	WALL MTD ABV. DOOR OR AS NOTED	-VERIFY FINISH WITH ARCHITECT.
EC		LED 6" DOWNLIGHT WITH TRIM FINISH TO BE SELECTED BY ARCHITECT	LITESTRY*LTR-6RD-H-SLIBL-DMH-IC-LTR-6RD-T-SL-50K8-MD-S HALO *4CR6BDD12 / MM612840 / 6MDHLF SPECTRUM *SGICE6LED05 SERIES	MVOLT	LED 5000K MAX 18W MIN 1500LM	RECESSED CANOPY MOUNTED	-VERIFY TRIM FINISH WITH ARCHITECT -IC RATED
ED		EXTERIOR LED FIXTURE MOUNTED ON A STRAIGHT, ROUND ALUMINUM POLE	LITHONIA *DSXO LED-P5-50K-T5W-MVOLT-RPA-DDBXD NO SUBSTITUTIONS	MVOLT	LED 5000K MIN 19251 LM MAX 89W	POLE MTD 15'-0" AFG	-VERIFY AND MATCH POLE HEIGHT OF EXISTING FIXTURES

AD-3

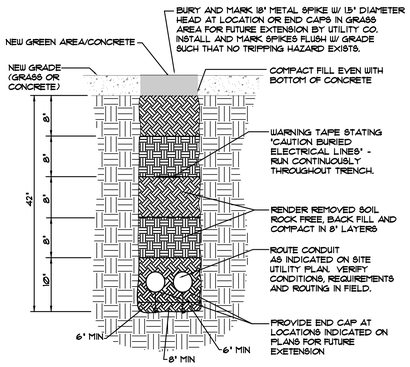
THEATRICAL LIGHTING EMERGENCY BYPASS DIAGRAM



NOTES:
1. THE DETAIL SHOWN IS DIAGRAMMATIC AND DOES NOT INDICATE ALL ACCESSORIES OR COMPONENTS. CONTRACTOR SHALL VERIFY WIRING AND SYSTEM REQUIREMENTS IN FIELD, WITH CONTRACT DOCUMENTS AND WITH MANUFACTURER.
2. THE SYSTEM SHALL BE PROPERLY INSTALLED SO THAT THE LIGHTING MAY BE CONTROLLED BY THE NORMAL POWER DIMMER RACK UNDER NORMAL CONDITIONS.
3. IN THE EVENT OF LOSS OF POWER OR FIRE ALARM ACTIVATION, THE FIXTURES SHALL HAVE THE NORMAL DMX SIGNAL BYPASSED TO ENABLE FULL ON OPERATION. THE POWER SOURCE FOR THE FIXTURES SHALL ALSO TRANSFER FROM NORMAL TO EMERGENCY LIFE SAFETY SOURCE. THE TRANSFER OF THE EMERGENCY FIXTURES TO FULL ON FROM THE EMERGENCY SYSTEM SHALL OCCUR REGARDLESS OF THE STATUS OF THE NORMAL CONTROLS.
4. REFER TO THE THEATRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

TRENCH DETAIL

N.T.S.



LEGEND:

— — — INDICATES CONDUIT ROUTED MINIMUM 36" BELOW GRADE AND LISTED FOR DIRECT BURIAL WITH NYLON PULL WIRE. COORDINATE CONDUIT TYPE WITH SPECIFICATIONS. ALL CONDUIT BENDS SHALL BE GALVANIZED RIGID STEEL CONDUIT WITH NO LESS THAN 36" BENDING RADIUS.

[PROPERLY TERMINATE, CAP AND SPIKE WITH 18" METAL SPIKE W/ 15" DIAMETER FOR FUTURE EXTENSION.

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 STEEL POLES WITH CAST BASE COVERS AND VIBRATION DAMPENERS. THE POLES SHALL BE SIZED PROPERLY TO SUPPORT FIXTURE WEIGHT AT 100 MPH WIND WITH A 1.3 GUST FACTOR. MINIMUM POLE SIZE TO BE 5" 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.
7. 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. PROVIDE 5000K COLOR TEMPERATURE IN SPECIAL EDUCATION SPACES AS SPECIFIED.
12. 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.
13. 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.
14. CAREFULLY COORDINATE VOLTAGES OF FIXTURES PRIOR TO ORDERING FIXTURES.
15. APPROVED EQUALS WILL BE CONSIDERED FROM THE FOLLOWING VENDORS: KSA LIGHTING (630.307.6955), FORCE CHICAGO (312.986.1515) OR PG ENLIGHTEN (847.228.1199).
16. CAREFULLY VERIFY COLOR TEMPERATURE OF FIXTURES WITH ARCHITECT PRIOR TO ORDERING.

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DRAWING
ELECTRICAL SYMBOL LIST

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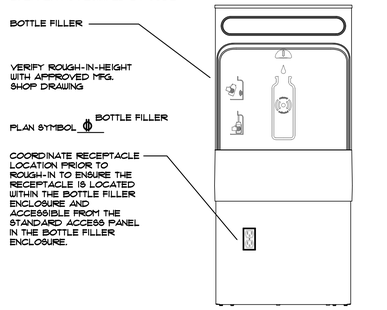
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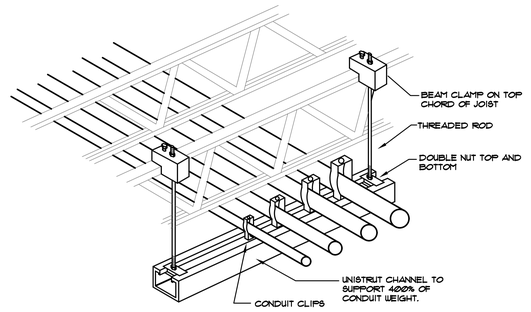
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BOTTLE FILLER WIRING DETAIL

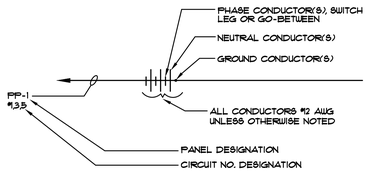
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2 1/2" AND LARGER CONDUIT SUPPORT DETAIL



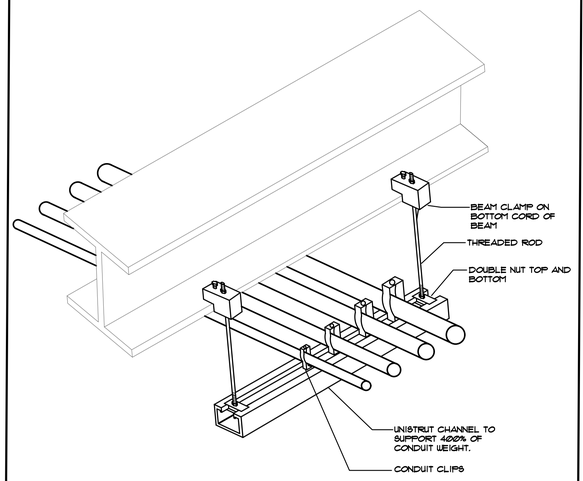
KEY TO ELECTRICAL CIRCUIT WIRING



NOTES:

1. ALL WIRING SHALL BE #12 AWG, UNLESS OTHERWISE NOTED.
2. MINIMUM CONDUIT SIZE SHALL BE ¾" EXCEPT FOR THREE (3) WIRES OR LESS, OR CONTROL WIRING WITHIN BUILDINGS, WHICH MAY BE ½" CONDUIT.
3. ½" FLEXSTEEL, GREENFIELD OR SEALITE SHALL BE THE MINIMUM SIZE INSTALLED.

2 1/2" AND LARGER CONDUIT SUPPORT DETAIL



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 #2BLT4-40L-ADP-EZI-LP840 COLUMBIA #LCAT24 SERIES METALUX #24CZ2 SERIES	120/277 VOLT 0-10V DIM - -	LED 4000K MAX 32 W MIN 4000 LM	RECESSED LAY-IN	- - -
AA1		2' X 4' LED DIRECT/INDIRECT FIXTURE	LITHONIA #2BLT4-48L-ADP-EZI-LP840 COLUMBIA #LCAT24 SERIES METALUX #24CZ2 SERIES	120/277 VOLT 0-10V DIM - -	LED 4000K MAX 38 W MIN 4800 LM	RECESSED LAY-IN	- - -
AA2		2' X 4' LED DIRECT/INDIRECT FIXTURE	LITHONIA #2BLT4-60L-ADP-EZI-LP840 COLUMBIA #LCAT24 SERIES METALUX #24CZ2 SERIES	120/277 VOLT 0-10V DIM - -	LED 4000K MAX 48 W MIN 6000 LM	RECESSED LAY-IN	- - -
AA3		2' X 4' LED DIRECT/INDIRECT FIXTURE	LITHONIA #2BLT4-72L-ADP-EZI-LP840 COLUMBIA #LCAT24 SERIES METALUX #24CZ2 SERIES	120/277 VOLT 0-10V DIM - -	LED 4000K - MIN 7200 LM	RECESSED LAY-IN	- - -
AB		2' X 2' LED DIRECT/INDIRECT FIXTURE	LITHONIA #2BLT2-48L-ADP-EZI-LP840 COLUMBIA #LCAT22 SERIES METALUX #22CZ2 SERIES	120/277 VOLT 0-10V DIM - -	LED 4000K MAX 44 W MIN 4800 LM	RECESSED LAY-IN	- - -
AB1		2' X 2' LED DIRECT/INDIRECT FIXTURE	LITHONIA #2BLT2-40L-ADP-EZI-LP840 COLUMBIA #LCAT22 SERIES METALUX #22CZ2 SERIES	120/277 VOLT 0-10V DIM - -	LED 4000K MAX 32 W MIN 4000 LM	RECESSED LAY-IN	- - -
AB2		2' X 2' LED DIRECT/INDIRECT FIXTURE	LITHONIA #2BLT2-33L-ADP-EZI-LP840 COLUMBIA #LCAT22 SERIES METALUX #22CZ2 SERIES	120/277 VOLT 0-10V DIM - -	LED 4000K MAX 27 W MIN 3300 LM	RECESSED LAY-IN	- - -
AC		LINEAR LED RECESSED FIXTURE	MARK #5L4L LOP XFT FLP TG 80CRI 40K 800LMF MINI MVOLT NULITE #RX4-09-L40-UNV-D0-XX-FR-F-XX OR APPROVED EQUAL	120/277 VOLT 0-10V DIM - -	LED 4000K MAX 8W/FT MIN 800LM/FT	RECESSED LAY-IN	-PROVIDE CUSTOM CONTINUOUS LENGTHS & COORDINATE EMERGENCY CIRCUITS AND SWITCHING W/DRAWINGS
CA		6" DIAMETER LED DOWNLIGHT WITH SEMI-SPECULAR ALZAK REFLECTOR, IRIDESCENT FREE FINISH & WHITE FLANGE	LITHONIA #LDN6-40-15-L06-AR-L88-MVOLT-EZ10-XX PRESCOLITE #LTR SERIES PORTFOLIO #LD6B SERIES	120/277 VOLT 0-10V DIM - -	LED 4000K MAX 18 W MIN 1800 LM	RECESSED LAY-IN/ DRYWALL	-VERIFY TRIM FINISH WITH ARCHITECT
FA		LED TAPE LIGHT FIXTURE	LUMINI LL12-HO41K-8L-NC-XX OR APPROVED EQUAL	120/277 VOLT MLV DIM - -	LED 4000K MAX 8W/FT MIN 442LM/FT	RECESSED LAY-IN/ DRYWALL	-VERIFY FINISH WITH ARCHITECT -COORDINATE MOUNTING WITH CASEWORK
FA		4', LED INDUSTRIAL FIXTURE WITH WIREGUARD AND SAFETY CHAINS	LITHONIA #CLX-L48-1800LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-XX-XX METALUX #SNLED SERIES COLUMBIA #IPS SERIES	120/277 VOLT 0-10V DIM - -	LED 4000K MAX 49W MIN 7000 LM	"I" CHAIN SUSPEND -	-COORD LOCATIONS WITH DUCTWORK & PIPING
FC		LED CONTINUOUS DIRECT/INDIRECT PENDANT FIXTURE	MARK #54LID-XFT-MSLX-80CRI-40K-400LMF 180CRI-140K-11000LMF-MINI-SCT-MVOLT-WHT FU36A-RDCT-WHTCY-UCRD NULITE #RP44-B-03/10-L40-U-D-XX-FRF-WH-XX OR APPROVED EQUAL	120/277 VOLT 0-10V DIM - -	LED 4000 K MIN 120LM/FT MAX 12W/FT	SUSPENDED VERIFY W/ ARCHITECT -	-PROVIDE LENGTHS AS SHOWN ON DRAWINGS -VERIFY FINISH WITH ARCHITECT - -
WA		4' LED WRAP-AROUND FIXTURE	LITHONIA #FTL-40-48-3000LM-835-ZT-MVOLT COLUMBIA #CRU4-L940 METALUX #4NLW4040C	277 VOLT - - -	LED 4000K MAX 34 W MIN 3000LM	WALL MTD	-PROVIDE ALL MOUNTING ACCESSORIES -VERIFY FINISH WITH ARCHITECT
ZA		6" DIAMETER LED DOWNLIGHT	GOTHAM #EVO6-30-100-AR-VND-L88-MVOLT -EDXB-SCA6-SD-X-X METEOR #REV6 SERIES OR APPROVED EQUAL	120/277 VOLT DMX - -	LED 3000K MAX 97 W MIN 10000 LM	RECESSED LAY-IN/ DRYWALL	-VERIFY TRIM FINISH WITH ARCHITECT
ZB		6" DIAMETER LED DOWNLIGHT	GOTHAM #EVO6-30-100-AR-VND-L88-MVOLT -EDXB-SCA6-15-X-X METEOR #REV6 SERIES OR APPROVED EQUAL	120/277 VOLT DMX - -	LED 3000K MAX 97 W MIN 10000 LM	RECESSED LAY-IN/ DRYWALL	-VERIFY TRIM FINISH WITH ARCHITECT
ZC		LED STEPLITE	COLE #L252W-L26V-HO-2-BLK-DIM OR SPECTRUM #STPR-IL30K-EI-MCP8LV-XX OR APPROVED EQUAL	120/277 VOLT DMX -	LED 3000K MAX 9W MIN 600 LM	RECESSED DRYWALL	-VERIFY TRIM FINISH WITH ARCHITECT -PROVIDE WITH DMX DIM ACCESSORIES
ZD		4' DIAMETER LED DOWNLIGHT	GOTHAM #EVO4-30-20-AR-MD-L88-MVOLT- EDXB-X-X METEOR #REV4 SERIES OR APPROVED EQUAL	120/277 VOLT DMX - -	LED 3000K MAX 20 W MIN 2000 LM	RECESSED LAY-IN/ DRYWALL	-VERIFY TRIM FINISH WITH ARCHITECT
ZG		LED THEATRICAL WALL SCONCE WITH OPTIONS TO BE SELECTED BY ARCHITECT	VISA #CB5303-L30K-XX-XX-XX-DCC OR APPROVED EQUAL	120/277 VOLT DMX - -	LED 3000K MAX 49 W MIN 5900 LM	WALL MTD VERIFY W/ ARCH	-VERIFY TRIM FINISH WITH ARCHITECT -PROVIDE WITH DMX DIM ACCESSORIES
XA		SINGLE FACE EXIT, AC ONLY	DUAL-LITE #SE-S-R-X LITHONIA #LE-S-X-1-R-X SURE-LITES #CX SERIES	120 VOLT - - -	LED MAX 3W - -	CEILING/ WALL - -	-VERIFY FINISH WITH ARCHITECT -PROVIDE WITH ARROWS AS REQUIRED
XB		DUAL FACE EXIT AC ONLY	DUAL-LITE #SE-D-R-X LITHONIA #LE-S-X-2-R-X SURE-LITES #CX SERIES	120 VOLT - - -	LED MAX 3W - -	CEILING/ WALL - -	-VERIFY FINISH WITH ARCHITECT -PROVIDE WITH ARROWS AS REQUIRED
XC		SINGLE FACE EXIT, AC ONLY, BLACK FINISH	DUAL-LITE #SE-S-R-B LITHONIA #LE-S-1-R-X SURE-LITES #CX SERIES	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 BYPASSES AS REQUIRED	-	120/277 VOLT	-	IN FIXTURE/ REMOTE	-PROVIDE TEST SWITCH AND CHARGING INDICATOR
NL		CONSTANT HOT, UNSWITCHED NIGHT LIGHT FIXTURE					

AD-3

AD-1

AD-3

AD-1

AD-3

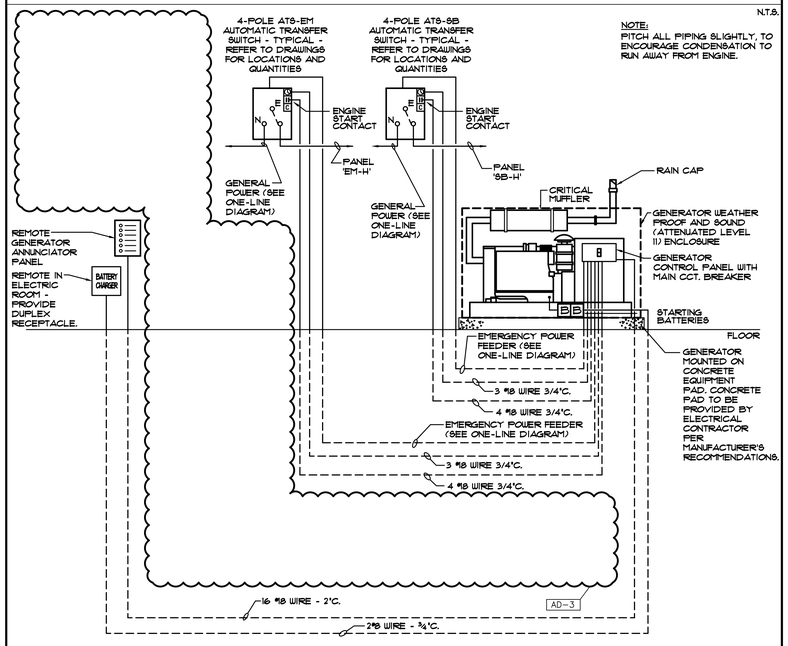
AD-1

LIGHTING CONTROL SYSTEM NOTES

1. UNLESS NOTED OTHERWISE, THE LIGHTING CONTROL SYSTEM SHALL BE A STAND ALONE SENSORSWITCH WIRED SYSTEM COMPLETE WITH OCCUPANCY SENSORS, POWER PACKS, 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: EATON CONTROLS, 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 MANUFACTURER 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. UL924 BYPASS DEVICES SHALL BE PROVIDED FOR ALL FIXTURES WITH AN EMERGENCY SOURCE OF POWER THAT IS SWITCHED. THE UL924 BYPASS SHALL PROVIDE BYPASS FOR BOTH THE POWER AND CONTROL SIGNAL, COMPLETE AS REQUIRED.
7. ALL LOW VOLTAGE CABLING SHALL BE PLENUM RATED. CABLING ROUTED IN CONCEALED AREAS SHALL BE ROUTED NEATLY EXPOSED WITHIN J-HOOKS. CABLING LOCATED IN EXPOSED CEILINGS SHALL BE CONCEALED IN NEATLY ROUTED CONDUIT. LOW VOLTAGE CABLING INSTALLATION SHALL FULLY MEET LOCAL CODE REQUIREMENTS.

EMERGENCY STANDBY GENERATOR WIRING SCHEMATIC

N.T.S.



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PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

GIBRALTAR DESIGN
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PROJECT 21-106
DATE 03/14/22
COORDINATED BY SM
DRAWN BY BAK/AG/MD
CHECKED BY DJ

REGISTERED PROFESSIONAL ENGINEER
DAVID G. JANNEY
NO. 10302590
STATE OF INDIANA

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REVISIONS

MARK	DATE	ISSUED FOR
AD-1	03/28/22	ADDENDUM NO. 1
AD-3	04/11/22	ADDENDUM NO. 3

DRAWING
ELECTRICAL SCHEDULES

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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SHEET
E-503

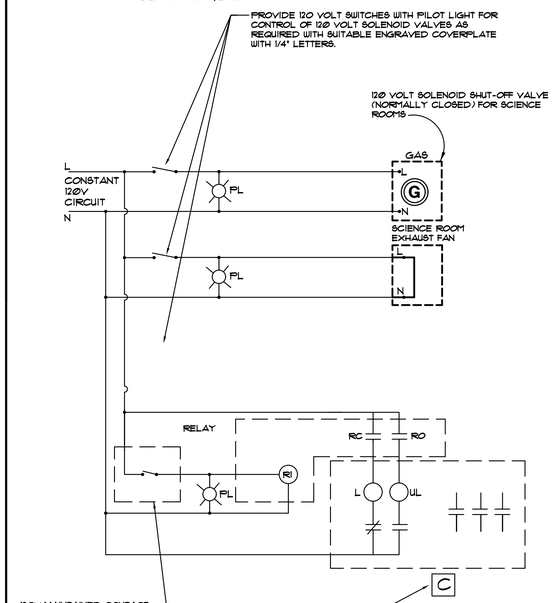
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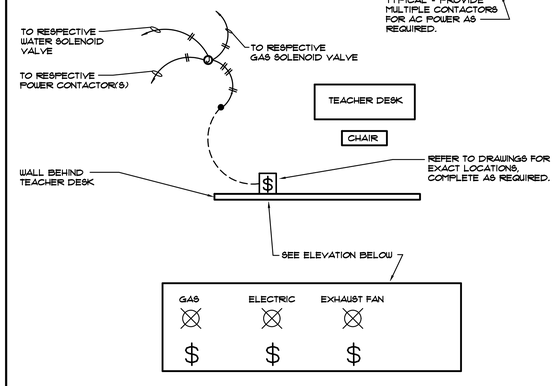
TYPICAL SCIENCE ROOM SHUT-OFF SCHEMATIC WIRING DIAGRAM & ELEVATIONS

NTS

NOTE: ELECTRIC (ALL RECEPTACLES EXCEPT CORD REEL ABOVE DEMO. TABLE), WATER AND GAS CONTROLS SHALL SHUT DOWN ALL SERVICES IN THE ROOM, ETC.

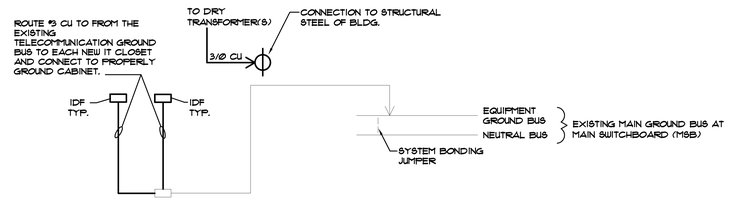
NOTE: SOLENOID & CONTACTOR TO BE PLACED SUCH THAT ALL RESPECTIVE SERVICES TO ROOM TO BE SHUT DOWN INCLUDING STUDENT STATIONS, ETC.





GROUNDING DETAIL

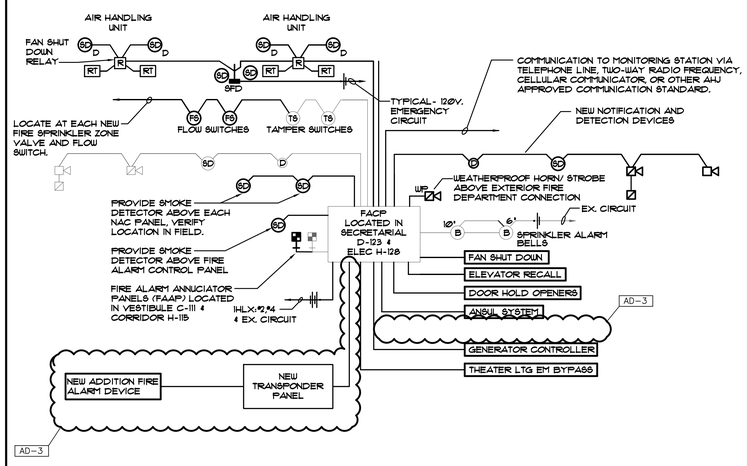
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NOTES:

1. CONTRACTOR SHALL FOLLOW THIS DETAIL FOR PROPER GROUNDING CONNECTIONS, INCLUDING FURNISH AND INSTALL ALL CONDUCTORS AND EQUIPMENT SUCH AS GROUND RODS, SURGE ARRESTOR, GROUND BUS, ETC. TO PROPERLY GROUND/BOND ALL EQUIPMENT.
2. SYSTEM GROUNDING FOR INTERIOR DISTRIBUTION TRANSFORMERS SHALL BE MADE TO A GROUNDING ELECTRODE AS NEAR AS PRACTICAL TO, AND PREFERABLY IN THE SAME AREA AS, THE TRANSFORMER. THE ELECTRODE SHALL BE THE NEAREST OF A METAL WATER PIPE GROUNDING ELECTRODE OR STRUCTURAL METAL GROUNDING ELECTRODE.
3. GROUNDING ELECTRODE RESISTANCE SHALL BE 25 OHMS OR LESS. SHOULD THE MEASURED RESISTANCE BE HIGHER THAN 25 OHMS, ADDITIONAL SUPPLEMENTAL ELECTRODES SHALL BE PROVIDED AS REQUIRED TO REACH A RESISTANCE TO EARTH OF 25 OHMS OR LESS.
4. IN ADDITION TO THE ABOVE DEPICTED CONNECTIONS, CONTRACTOR SHALL PROVIDE ALL GROUND RODS, GROUND GRIDS, AND OTHER GROUNDING ELECTRODES AS REQUIRED BY THE UTILITY COMPANY AND MAKE CONNECTIONS TO UTILITY EQUIPMENT PER UTILITY COMPANY STANDARDS.
5. REFER TO TELECOMMUNICATIONS GROUNDING DIAGRAM SHEET T601 FOR ADDITIONAL REQUIREMENTS. CONTRACTOR TO PROVIDE ALL GROUND CONNECTIONS AND GROUND BUSES AS INDICATED.

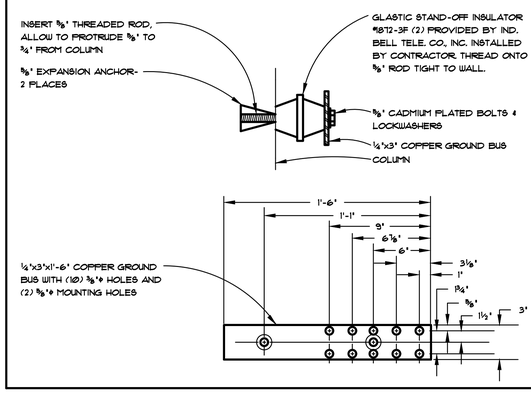
FIRE ALARM SCHEMATIC RISER DIAGRAM



NOTES:

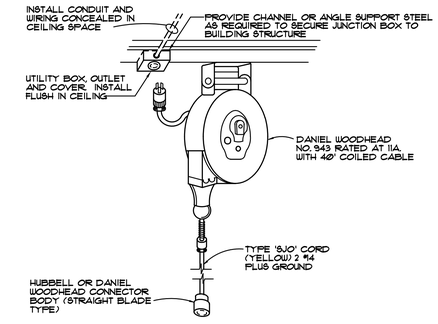
1. THIS DIAGRAM IS SCHEMATIC ONLY AND DOES NOT SHOW ALL FIRE ALARM DEVICES, AIR HANDLING UNITS, ROOF-TOP UNITS OR FIRE PROTECTION DEVICES - REFER TO ALL PLANS AND SPECIFICATIONS FOR QUANTITIES, LOCATION, ACCEPTABLE MANUFACTURERS, ETC.
2. ELECTRICAL CONTRACTOR SHALL FURNISH DUCT SMOKE DETECTORS. MECHANICAL CONTRACTOR SHALL INSTALL DUCT SMOKE DETECTOR AND ELECTRICAL CONTRACTOR SHALL MAKE FINAL WIRING CONNECTIONS AS REQUIRED. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF DUCT SMOKE DETECTORS.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE INTERLOCKING BETWEEN DUCT SMOKE DETECTORS, FIRE ALARM CONTROL PANEL, AIR HANDLING UNITS, ROOF-TOP UNITS, ANSUL SYSTEM AND FAN SHUT DOWN RELAYS SO THAT UPON ACTIVATION OF FIRE ALARM SYSTEM, ALL AIR HANDLING EQUIPMENT AND SMOKE/FIRE DAMPER SHALL SHUT DOUN. ALL AIR HANDLING EQUIPMENT SHALL START AUTOMATICALLY (AND SEQUENTIALLY) UPON RESETTING OF THE FIRE ALARM SYSTEM.
4. ELECTRICAL CONTRACTOR SHALL CONNECT SMOKE/FIRE DAMPERS THROUGHOUT FACILITY TO CLOSE DAMPERS UPON ACTIVATION/ALARM OF SMOKE DUCT DETECTOR MOUNTED IN DUCT AHEAD OF RESPECTIVE DAMPER OR LOCAL SMOKE DETECTORS, COMPLETE AS REQUIRED. VERIFY LOCATION AND QUANTITIES ON MECHANICAL AND ARCHITECTURAL PLANS AND IN FIELD. INTERLOCK SMOKE DUCT DETECTORS AND DAMPERS WITH FIRE ALARM CONTROL PANEL, COMPLETE AS REQUIRED.
5. PROVIDE ADDITIONAL PARTS, ACCESSORIES, CARDS, ETC. AS REQUIRED TO COMPLETE THE WORK. FIRE ALARM DEVICES SHALL BE CONNECTED TO THE FIRE ALARM POWER SUPPLY AND BATTERIES OF THE SYSTEM AND SHALL NOT BE CONNECTED TO NORMAL POWER.
6. ~~PROVIDE ALL RELAYS AND DEVICES AS REQUIRED TO MONITOR GENERATOR STATUS INCLUDING GENERATOR RUNNING AND GENERATOR TROUBLE.~~

GROUNDING BUS BAR DETAIL



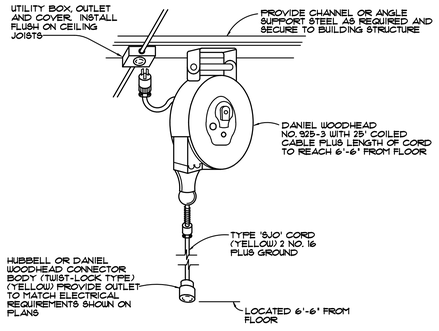
ELECTRIC CORD REEL DETAIL

NTS



ELECTRIC CORD REEL DETAIL EXPOSED CEILING

NTS



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PROJECT 21-106
DATE 03/14/22
COORDINATED BY SM
DRAWN BY BAK/AG/MD
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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REVISIONS

MARK	DATE	ISSUED FOR
AD-3	04/11/22	ADDENDUM NO. 3

DRAWING
ELECTRICAL SCHEDULES

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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EX. PANEL P3

TOTAL KW: 44.9 | ENCLOSURE: NEMA-1 | PHASE: 3Φ | VOLTAGE: 120 / 208
MOUNTING: SURFACE | BUSSING: COPPER | FAULT CURRENT RATING: 22,000 AIC | MLO(AMPS): 400
FEEDER: 4 #500KCMIL & 1 #3 GRD. IN 3-1/2"C. | LOCATION: ELEC H-128

C/B LOAD DESCRIPTION	TRIP	POLE	A	B	C	CCT. NO.	A	B	C	C/B LOAD DESCRIPTION	TRIP	POLE
SPARE	20	1				1	2	4834			50	
SPARE	20	1				3	4		4834			KILN
SPARE	20	1				5	6			4834	3	
SPARE	20	1				7	8	4834			50	
SPARE	20	1				9	10		4834			KILN
SPARE	20	1				11	12			4834	3	
SPARE	20	1				13	14				20	1 SPARE
SPARE	20	1				15	16				20	1 SPARE
SPARE	20	1				17	18				20	1 SPARE
SPARE	20	1				19	20				20	1 SPARE
SPARE	20	1				21	22				20	1 SPARE
SPARE	20	1				23	24				20	1 SPARE
SPARE	20	1				25	26				20	1 SPARE
DESK3 H120	20	1		1200		27	28				20	1 SPARE
DESK3 H120	20	1			1200	29	30			2268	30	DRYER H122
DESK5 H120	20	1	800			31	32	2268			2	
DESK5 H120	20	1		800		33	34		600		20	1 RECEPT5 H119/129
FRIDGE H120	20	1			1000	35	36			1000	20	1 RECEPT5 H125
FRIDGE H120	20	1	1000			37	38	900			20	1 DESK/TV H125
RECEPT5 H120	20	1		800		39	40		1200		20	1 WASHER H122
DESK/TV H107	20	1			900	41	42				20	1 SPARE
			1800	2800	3100			12836	11468	12936		

A= 14,636
B= 14,268
C= 16,236
TOTAL= 44,940

NOTE: REFER TO GENERAL NOTE "B"
FOR ADDITIONAL INFORMATION

EX. PANEL P7

TOTAL KW: 25.7 | ENCLOSURE: NEMA-1 | PHASE: 3Φ | VOLTAGE: 120 / 208
MOUNTING: SURFACE | BUSSING: COPPER | FAULT CURRENT RATING: 22,000 AIC | MLO(AMPS): 400
FEEDER: 4 #500KCMIL & 1 #3 GRD. IN 3-1/2"C. | LOCATION: ELEC H-114

C/B LOAD DESCRIPTION	TRIP	POLE	A	B	C	CCT. NO.	A	B	C	C/B LOAD DESCRIPTION	TRIP	POLE
EXISTING LOAD	20	1				1	2				20	1 EXISTING LOAD
EXISTING LOAD	20	1				3	4				20	1 EXISTING LOAD
EXISTING LOAD	20	1				5	6				20	1 EXISTING LOAD
EXISTING LOAD	20	1				7	8				20	1 EXISTING LOAD
EXISTING LOAD	20	1				9	10				20	1 EXISTING LOAD
EXISTING LOAD	20	1				11	12				20	1 EXISTING LOAD
EXISTING LOAD	20	1				13	14				20	1 EXISTING LOAD
EXISTING LOAD	20	1				15	16				20	1 EXISTING LOAD
EXISTING LOAD	20	1				17	18				20	1 EXISTING LOAD
EXISTING LOAD	20	1				19	20				20	1 EXISTING LOAD
EXISTING LOAD	20	1				21	22		800		20	1 RECEPT5 - H117
EXISTING LOAD	20	1				23	24			900	20	1 DESK/TV - H117
EXISTING LOAD	20	1				25	26	900			20	1 DESK/TV - H118
EXISTING LOAD	20	1				27	28		800		20	1 RECEPT5 - H118
SPARE	20	1				29	30				20	1 SPARE
VRF-3A,3B,3C,3D	15		750			31	32					SPACE
		2		750		33	34					SPACE
SPACE						35	36					SPACE
SPACE						37	38					SPACE
SPACE						39	40					SPACE
SPACE						41	42					SPACE
			750	750	0			900	1600	900		

A= 1,650
B= 2,350
C= 900
TOTAL= 25,680

NOTE: REFER TO GENERAL NOTE "B"
FOR ADDITIONAL INFORMATION

NEW PANEL P8

TOTAL KW: 60.3 | ENCLOSURE: NEMA-1 | PHASE: 3Φ | VOLTAGE: 120 / 208
MOUNTING: SURFACE | BUSSING: COPPER | FAULT CURRENT RATING: 22,000 AIC | MLO(AMPS): 225
FEEDER: 4 #4/0 & 1 #4 GRD. - 2-1/2"C. | LOCATION: ELEC H-128

C/B LOAD DESCRIPTION	TRIP	POLE	A	B	C	CCT. NO.	A	B	C	C/B LOAD DESCRIPTION	TRIP	POLE
CTR. RECEPT5 H120	20	1	800			1	2	3328			40	RANGE H120
MWAVE H120	20	1		1600		3	4		3328		2	
HOOD5 H120	20	1			1200	5	6			3328	40	RANGE H120
CTR. RECEPT5 H120	20	1	600			7	8	3328			2	
MWAVE H120	20	1		1600		9	10		3328		40	RANGE H120
HOOD5 H120	20	1			1200	11	12			3328	2	
MWAVE H120	20	1	1600			13	14	3328			40	RANGE H120
HOOD5 H120	20	1		1200		15	16		3328		2	
CTR. RECEPT5 H120	20	1			800	17	18			3328	40	RANGE H120
CTR. RECEPT5 H120	20	1	600			19	20	3328			2	
MWAVE H120	20	1		1600		21	22		3328		40	RANGE H120
DISHWASHER H120	20	1			1200	23	24			3328	2	
DISHWASHER H120	20	1	1200			25	26	1600			20	1 MWAVE H120
GEF-4	30	1		1920		27	28		1600		20	1 MWAVE H120
SPARE	20	1				29	30				20	1 SPARE
SPARE	20	1				31	32				20	1 SPARE
SPARE	20	1				33	34				20	1 SPARE
SPARE	20	1				35	36				20	1 SPARE
SPARE	20	1				37	38				20	1 SPARE
SPARE	20	1				39	40				20	1 SPARE
SPARE	20	1				41	42				20	1 SPARE
			4800	7920	4400			14912	14912	13312		

A= 19,112
B= 22,832
C= 17,712
TOTAL= 60,256

NOTE: REFER TO GENERAL NOTE "B"
FOR ADDITIONAL INFORMATION

NEW PANEL 2AH1

TOTAL KW: 93.7 | ENCLOSURE: | PHASE: 3Φ | VOLTAGE: 277 / 480
MOUNTING: SURFACE | BUSSING: | FAULT CURRENT RATING: EXISTING AIC | MCB(AMPS): 400
FEEDER: 4 #500KCMIL & 1 #3 GRD. IN 3-1/2"C. | LOCATION: MECH A-211

C/B LOAD DESCRIPTION	TRIP	POLE	A	B	C	CCT. NO.	A	B	C	C/B LOAD DESCRIPTION	TRIP	POLE
	70		16885			1	2	1500			20	1 LIGHTING 2ND FLR
AH-1				16885		3	4		3500		20	1 LIGHTING 1ST FLR
		3			16885	5	6			1500	20	1 LIGHTING 1ST FLR
	70		12180			7	8					SPACE
AH-2				12180		9	10					SPACE
		3			12180	11	12					SPACE
SPACE						13	14					SPACE
SPACE						15	16					SPACE
SPACE						17	18					SPACE
SPACE						19	20					SPACE
SPACE						21	22					SPACE
SPACE						23	24					SPACE
SPACE						25	26					SPACE
SPACE						27	28					SPACE
SPACE						29	30					SPACE
SPACE						31	32					SPACE
SPACE						33	34					SPACE
SPACE						35	36					SPACE
SPACE						37	38					SPACE
SPACE						39	40					SPACE
SPACE						41	42					SPACE
			29065	29065	29065			1500	3500	1500		

A= 30565
B= 32565
C= 30565
TOTAL= 93695

NOTE: REFER TO GENERAL NOTE "B"
FOR ADDITIONAL INFORMATION

EX. PANEL P4

TOTAL KW: 27.4 | ENCLOSURE: NEMA-1 | PHASE: 3Φ | VOLTAGE: 120 / 208
MOUNTING: RECESSED | BUSSING: COPPER | FAULT CURRENT RATING: 22,000 AIC | MLO(AMPS): 100
FEEDER: 4 #500KCMIL & 1 #3 GRD. IN 3-1/2"C. | LOCATION: SHOP H105

C/B LOAD DESCRIPTION	TRIP	POLE	A	B	C	CCT. NO.	A	B	C	C/B LOAD DESCRIPTION	TRIP	POLE
	20		1800			1	2	600			20	1 RECEPT5
BAND SAW				1800		3	4		600		20	1 RECEPT5 ABV CTR
		3			1800	5	6			400	20	1 REEL CORD5 A
	20		1800			7	8	400			20	1 REEL CORD5 B
BAND SAW				1800		9	10		1680		20	1 REEL CORD5 TABLE SAW
		3			1800	11	12			1800	30	1 DRILL PRESS A
SPARE	20	1				13	14	1800			30	1 DRILL PRESS B
SPARE	20	1				15	16		1250		25	SPINDEL SANDER
SPARE	20	1				17	18			1250		2
SPACE						19	20	1250			25	DISK SANDER
SPACE						21	22		1250			2
SPACE						23	24			1250	25	BELT SANDER
	100					25	26	1250				2
CONTACTOR TO EPO						27	28		1800		20	1 MITER SAW
		3				29	30				20	1 SPARE
			3600	3600	3600			5300	6580	4700		

A= 8,900
B= 10,180
C= 8,300
TOTAL= 27,380

NOTE: REFER TO GENERAL NOTE "B"
FOR ADDITIONAL INFORMATION

NEW PANEL 1AL1

TOTAL KW: 29.8 | ENCLOSURE: NEMA-1 | PHASE: 3Φ | VOLTAGE: 120 / 208
MOUNTING: SURFACE | BUSSING: COPPER | FAULT CURRENT RATING: 22,000 AIC | MLO(AMPS): 100
FEEDER: 4 #2 & 1 #8 GRD. - 1 1/4"C. | LOCATION: ELEC A-117

C/B LOAD DESCRIPTION	TRIP	POLE	A	B	C	CCT. NO.	A	B	C	C/B LOAD DESCRIPTION	TRIP	POLE
BOTTLE FILLER	20	1	600			1	2	1200			20	1 MECH A211 RECEPT5
BOTTLE FILLER	20	1		600		3	4		200		20	1 LTG - AH-1
TOILET AREA RECEPT5	20	1			1000	5	6			200	20	1 REC - AH-1
COMMONS RECEPT5	20	1	1200			7	8	200			20	1 LTG - AH-2
CH-1 - VEST A112	20	1		500		9	10		200		20	1 REC - AH-2
DOOR OPERATOR5	20	1			1200	11	12			1200	20	1 CHARGE CART - A210
EXT. BLDG. REC - A112	20	1	200			13	14	800			20	1 RECEPT5 A - A210
CHARGE CART - A110	20	1		1200		15	16		900		20	1 DESK/TV - A210
DESK/TV - A110	20	1			900	17	18			800	20	1 RECEPT5 B - A210
RECEPT5 A - A110	20	1	800			19	20	800			20	1 RECEPT5 A - A209
RECEPT5 B - A110	20	1		900		21	22		1200		20	1 CHARGE CART - A209
HAND DRYER - A114	20	1			1500	23	24			800	20	1 RECEPT5 B - A209
HAND DRYER - A114	20	1	1500			25	26	900			20	1 DESK/TV - A209
HAND DRYER - A114	20	1		1500		27	28				20	1 SPARE
HAND DRYER - A115	20	1			1500	29	30				20	1 SPARE
HAND DRYER - A115	20	1	1500			31	32				20	1 SPARE
HAND DRYER - A115	20	1		1500		33	34				20	1 SPARE
GEF-5	20	1			636	35	36				20	1 SPARE
TEF-1	25	1	1656			37	38					SPACE
SPACE						39	40					SPACE
SPARE	20	1				41	42					SPACE
			7456	6100	6796			3200	2500	3000		

A= 11,356
B= 8,600
C= 9,796
TOTAL= 29,752

NOTE: REFER TO GENERAL NOTE "B"
FOR ADDITIONAL INFORMATION

NEW PANEL 1GH1

TOTAL KW: 6.4 | ENCLOSURE: | PHASE: 3Φ | VOLTAGE: 277 / 480
MOUNTING: | BUSSING: | FAULT CURRENT RATING: EXISTING AIC | MCB(AMPS): 100
FEEDER: 4 #2 & 1 #8 GRD. - 1 1/4"C. | LOCATION: ELEC H-128

C/B LOAD DESCRIPTION	TRIP	POLE	A	B	C	CCT. NO.	A	B	C	C/B LOAD DESCRIPTION	TRIP	POLE
UNIT G LIGHTING	20	1	2572			1	2				20	1 SPARE
UNIT G LIGHTING	20	1		3861		3	4				20	1 SPARE
SPARE	20	1				5	6				20	1 SPARE
SPARE	20	1				7	8				20	1 SPARE
SPARE	20	1				9	10				20	1 SPARE
SPARE	20	1				11	12				20	1 SPARE
SPARE	20	1				13	14				20	1 SPARE
SPARE	20	1				15	16				20	1 SPARE
SPARE	20	1				17	18				20	1 SPARE
SPARE	20	1				19	20				20	1 SPARE
SPARE	20	1				21	22				20	1 SPARE
SPARE	20	1				23	24				20	1 SPARE
SPACE						25	26					SPACE
SPACE						27	28					SPACE
SPACE						29	30					SPACE
SPACE						31	32					SPACE
SPACE						33	34					SPACE
SPACE						35	36					SPACE
SPACE						37	38					SPACE
SPACE						39	40					SPACE
SPACE						41	42					SPACE
			2572	3861	0			0	0	0		

A= 2572
B= 3,861
C= 0
TOTAL= 6,433

NOTE: REFER TO GENERAL NOTE "B"
FOR ADDITIONAL INFORMATION

NEW PANEL 1GL1

TOTAL KW: 53.7 | ENCLOSURE: NEMA-1 | PHASE: 3Φ | VOLTAGE: 120 / 208
MOUNTING: SURFACE | BUSSING: COPPER | FAULT CURRENT RATING: 22,000 AIC | MLO(AMPS): 225
FEEDER: 4 #4/0 & 1 #4 GRD. - 2-1/2"C. | LOCATION: ELEC G-126

C/B LOAD DESCRIPTION	TRIP	POLE	A	B	C	CCT. NO.	A	B	C	C/B LOAD DESCRIPTION	TRIP	POLE
RECEPT5 G105	20	1	1000			1	2	1000			20	1 RECEPT5 G104
CH-3 & REC G106	20	1		900		3	4		600		20	1 DISPLAY CASE G104
RECEPT5 EXT. BLDG.	20	1			400	5	6			600	20	1 DISPLAY CASE G102
RECEPT5 G102	20	1	800			7	8	1200			20	1 CH-2 G103
RECT/V G127	20	1		900		9	10		1200		20	1 DOOR OPERATOR5 G103
RECEPT5 G127	20	1			1000	11	12			600	20	1 RECEPT5 EXT. BLDG.
PARTITION G127	20	1	1000			13	14	1200			20	1 CH-2 G101
RECEPT5 G135	20	1		1000		15	16				20	1 SPARE
TICKET DESK G130	20	1			400	17	18			1200	20	1 DOOR OPERATOR5 G101
LOUER SOUND BOOTH	20	1	1200			19	20	700			20	1 CH-3 & REC G134/138
LOUER SOUND BOOTH	20	1		1200		21	22		1000		20	1 RECEPT5 G133
PARTITION G133	20	1			1000	23	24			900	20	1 REC/TV G133
RECEPT5 G135	20	1	1000			25	26	1000			20	1 RECEPT5 G135
RECEPT5 G139	20	1		1000		27	28		800		20	1 RECEPT5 G139
BOTTLE FILLER G139	20	1			720	29	30			200	20	1 STG MANAGER LECTERN
WORK LIGHT	20	1	500			31	32	1200			20	1 STG MANAGER PANEL
WORK LIGHT	20	1		500		33	34		500		20	1 WORK LIGHT
FLOORBOX G139	20	1			1200	35	36			500	20	1 WORK LIGHT
RECEPT5 G203	20	1	1000			37	38	1200			20	
SOUND CABINET	20	1		600		39	40		1200			AUDITORIUM HOIST
SOUND CABINET	20	1			600	41	42			1200	3	
PROJ SCREEN	20	1	1000			43	44	1200			20	
RECEPT5 G203	20	1		800		45	46		1200			AUDITORIUM HOIST
SPOTLIGHT G203	20	1			500	47	48			1200	3	
SPOTLIGHT G203	20	1	500			49	50	1200			20	
AUDIO CABINET G203	30	1		2400		51	52		1200			AUDITORIUM HOIST
PROJ G203	20	1			600	53	54			1200	3	
GEF-1	20	1	1176			55	56	1200			20	
SPARE	20	1				57	58		1200			AUDITORIUM HOIST
SPARE	20	1				59	60			1200	3	
			9176	9300	6420			11600	8900	8800		

A= 20276
B= 18200
C= 15220
TOTAL= 53696

NOTE: REFER TO GENERAL NOTE "B"
FOR ADDITIONAL INFORMATION

EX. PANEL P6

TOTAL KW: 40.6 | ENCLOSURE: NEMA-1 | PHASE: 3Φ | VOLTAGE: 120 / 208
MOUNTING: SURFACE | BUSSING: COPPER | FAULT CURRENT RATING: 22,000 AIC | MLO(AMPS): 400
FEEDER: 4 #500KCMIL & 1 #3 GRD. IN 3-1/2"C. | LOCATION: ELEC H-114

LOAD DESCRIPTION	C/B TRIP	POLE	LOAD A	LOAD B	LOAD C	CCT. NO.	LOAD A	LOAD B	LOAD C	C/B TRIP	POLE	LOAD DESCRIPTION
EXISTING HWCP-1	20	1	530			1	2	100			20	1 EXISTING DUH-1
SPRAY BOOTH H108	20	1		600		3	4		480		20	1 TUH-6,7
SPRAY BOOTH H108	20	1			600	5	6			920	20	1 DESK/TV - H104
DESK/TV - H108	20	1	900			7	8	800			20	1 REEL CORD5 H104
RECEPT5 H108	20	1		1000		9	10		800		20	1 REEL CORD5 H104
RECEPT5 H108	20	1			800	11	12			1200	20	1 RECEPT5 H104, H105
KILN HOOD H109	20	1	1000			13	14	540			20	1 EXISTING LOAD
KILN HOOD H109	20	1		1000		15	16		1200		20	3D PRINTER H104
RECEPT5 H111	20	1			1000	17	18			1200	2	
SPRAY BOOTH H111	20	1	600			19	20	1200			20	3D PRINTER H104
RECEPT5 H111	20	1		600		21	22		1200		2	
DESK/TV - H111	20	1			900	23	24			1200	20	1 PRINTER H104
AC/CU-1	25		2475			25	26	600			20	1 RECEPT5 H107
		2		2475		27	28		800		20	1 REEL CORD5 H107
DATA RACK H121	20	1			1200	29	30			800	20	1 REEL CORD5 H107
IDF H121	30		1500			31	32	900			20	1 DESK/TV - H107
		2		1500		33	34		1200		20	3D PRINTER H107
RECEPT5 H121	20	1			800	35	36			1200	2	
EXISTING LOAD	20	1				37	38	1200			20	3D PRINTER H107
EXISTING LOAD	20	1				39	40		1200		2	
GEF-3	20	1		1176		41	42			600	20	1 RECEPT5 H107
			1800	4176	3440			3340	6880	7100		

A= 12,945
B= 14,055
C= 13,576
TOTAL= 40,576

NOTE: REFER TO GENERAL NOTE "B"
FOR ADDITIONAL INFORMATION

AD-3 AD-2 AD-3 AD-3

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PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

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PROJECT 21-106
DATE 03/14/22
COORDINATED BY SM
DRAWN BY BAK/AG/MD
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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REVISIONS

MARK	DATE	ISSUED FOR
AD-2	04/06/22	ADDENDUM NO. 2
AD-3	04/11/22	ADDENDUM NO. 3

DRAWING
ELECTRICAL SCHEDULES

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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SHEET
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NEW PANEL 1HHX

TOTAL KW: 7.8 | ENCLOSURE: | PHASE: 3Φ | VOLTAGE: 277 / 480
MOUNTING: | BUSSING: | FAULT CURRENT RATING: EXISTING AIC | MCB(AMPS): 60
FEEDER: 4 #2 & 1 #8 GRD. - 1 1/4"C. | LOCATION: ELEC H-128

C/B LOAD DESCRIPTION	TRIP	POLE	A	B	C	CCT. NO.	A	B	C	TRIP	POLE	LOAD DESCRIPTION
LTG EM-G	20	1	1488			1 2	2,150			45		
LTG EM-G	20	1		2003		3 4		1320				30KVA TRANSFORMER
LTG EM-G	20	1			154	5 6			580		3	
EXIT SIGNS-G	20	1	63			7 8				20	1	SPARE
SPARE	20	1				9 10				20	1	SPARE
SPARE	20	1				11 12				20	1	SPARE
SPARE	20	1				13 14				20	1	SPARE
SPARE	20	1				15 16				20	1	SPARE
SPARE	20	1				17 18				20	1	SPARE
SPARE	20	1				19 20				20	1	SPARE
SPARE	20	1				21 22				20	1	SPARE
SPARE	20	1				23 24				20	1	SPARE
SPACE						25 26						SPACE
SPACE						27 28						SPACE
SPACE						29 30						SPACE
SPACE						31 32						SPACE
SPACE						33 34						SPACE
SPACE						35 36						SPACE
SPACE						37 38						SPACE
SPACE						39 40						SPACE
SPACE						41 42						SPACE
			1551	2003	154		2150	1320	580			

A= 3,101
B= 3,323
C= 734
TOTAL= 7,158

NOTE: REFER TO GENERAL NOTE "B" FOR ADDITIONAL INFORMATION

NEW PANEL 1HLX

TOTAL KW: 4.4 | ENCLOSURE: NEMA-1 | PHASE: 3Φ | VOLTAGE: 120 / 208
MOUNTING: SURFACE | BUSSING: COPPER | FAULT CURRENT RATING: 22,000 AIC | MLO(AMPS): 100
FEEDER: 4 #2 & 1 #8 GRD. - 1 1/4"C. | LOCATION: MECH F-123

C/B LOAD DESCRIPTION	TRIP	POLE	A	B	C	CCT. NO.	A	B	C	TRIP	POLE	LOAD DESCRIPTION
EM LIGHTING	20	1	500			1 2	600			20	1	FACP
EM LIGHTING	20	1		600		3 4		600		20	1	FACP
EXIT SIGNS	20	1			100	5 6			480	20	1	TUH-6,7
EM/NL LIGHTING	20	1	1050			7 8	300			20	1	RCP-2
EM/NL EXTERIOR LTG	20	1		120		9 10				20	1	SPARE
SPARE	20	1				11 12				20	1	SPARE
SPACE						13 14						SPACE
SPACE						15 16						SPACE
SPACE						17 18						SPACE
SPACE						19 20						SPACE
SPACE						21 22						SPACE
SPACE						23 24						SPACE
SPACE						25 26						SPACE
SPACE						27 28						SPACE
SPACE						29 30						SPACE
SPACE						31 32						SPACE
SPACE						33 34						SPACE
SPACE						35 36						SPACE
SPACE						37 38						SPACE
SPACE						39 40						SPACE
SPACE						41 42						SPACE
			1550	720	100		900	600	480			

A= 2,450
B= 1,320
C= 580
TOTAL= 4,350

NOTE: REFER TO GENERAL NOTE "B" FOR ADDITIONAL INFORMATION

NEW PANEL 1FLX

AD-3

TOTAL KW: 32.4 | ENCLOSURE: NEMA-1 | PHASE: 3Φ | VOLTAGE: 120/208
MOUNTING: SURFACE | BUSSING: COPPER | FAULT CURRENT RATING: 22,000 AIC | MCB(AMPS): 125
FEEDER: 4 #1 & 1 #6 GRD. - 1 1/2"C. | LOCATION: MECH F-123

C/B LOAD DESCRIPTION	TRIP	POLE	A	B	C	CCT. NO	A	B	C	TRIP	POLE	LOAD DESCRIPTION
EX. FREEZER COMP.	40		588			1 2	2080			30		B-1
				588		3 4		2080			2	
		3			588	5 6			2080	30		B-2
EX. COOLER COMP.	40		3624			7 8	2080			30		
				3624		9 10		2000			2	EX BOILER
		3			3624	11 12			2000			
EX WALK-IN COOLER	20	1	750			13 14	2000			30		EX BOILER
EX WALK-IN FREEZER	20	1		750		15 16		2000			2	
EX COOLER COIL	20	1			216	17 18			720	20	1	TUH-1,2,3
EX TO PANEL	20	1	500			19 20	480			20	1	TUH-4,5
SPARE	20	1				21 22				20	1	SPARE
SPARE	20	1				23 24				20	1	SPARE
SPARE	20	1				25 26						SPACE
SPARE	20	1				27 28						SPACE
SPARE	20	1				29 30						SPACE
SPACE						31 32						SPACE
SPACE						33 34						SPACE
SPACE						35 36						SPACE
SPACE						37 38						SPACE
SPACE						39 40						SPACE
SPACE						41 42						SPACE
			3462	4962	4428		6640	6080	4800			

A= 12,102
B= 11,042
C= 9,228
TOTAL= 32,372

NOTE: REFER TO GENERAL NOTE "B" FOR ADDITIONAL INFORMATION

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	LOAD WATTS	LOAD HP	LOAD MCA	LOAD FLA	LOAD AMPS	MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH C/B	FEEDER CABLE	FEEDER C	STARTER BY: MC.	STARTER BY: EC.	LOCATION	REMARKS
C-1	CHILLER	400753	-	482	-	-	600	480	3	M8BH	-	600A/3P	(2) 4 #350 & 1 #1 GRD.	(2) 3"	x	-	-	-
C-2	CHILLER	400753	-	482	-	-	600	480	3	M8BH	-	600A/3P	(2) 4 #350 & 1 #1 GRD.	(2) 3"	x	-	-	-
B-3	BOILER	4982.4	-	-	6	-	15	480	3	DPHX-2	-	20A/3P	4 #12 & 1 #12 GRD.	3/4"	x	-	-	-
B-4	BOILER	4982.4	-	-	6	-	15	480	3	DPHX-2	-	20A/3P	4 #12 & 1 #12 GRD.	3/4"	x	-	-	-
AH-1	AIR HANDLER	50654	-	61	-	-	71	480	3	2AH1	1-3-5	70A/3P	4 #4 & 1 #8 GRD.	1-1/4"	x	-	-	-
ER-1	WATER COOLING/HEATING-VAV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AH-2	AIR HANDLER	36538	-	44	-	-	70	480	3	2AH1	7-9-11	70A/3P	4 #4 & 1 #8 GRD.	1-1/4"	x	-	-	-
ER-2	WATER COOLING/HEATING-VAV	-	-	-	-	-	-	-	-	-	-	-	AD-3 -	-	-	-	-	-
AC-1/CU-1	CONDENSING UNIT	3952	-	19	-	-	26	208	1	P6	25-27	25A/2P	3 #10 & 1 #10 GRD.	3/4"	x	-	-	-
GEF-1	GENERAL EXHAUST FAN	1656	3/4	-	-	-	-	120	1	2CL1	16	20A/1P	2 #12 & 1 #12 GRD.	3/4"	-	x	-	-
GEF-2	GENERAL EXHAUST FAN	528	1/6	-	-	-	-	120	1	2CL1	18	20A/1P	2 #12 & 1 #12 GRD.	3/4"	-	x	-	-
GEF-3	GENERAL EXHAUST FAN	1176	1/2	-	-	-	-	120	1	P6	41	20A/1P	2 #12 & 1 #12 GRD.	3/4"	-	x	-	-
GEF-4	GENERAL EXHAUST FAN	1920	1	-	-	-	-	120	1	P8	27	30A/1P	2 #10 & 1 #10 GRD.	3/4"	-	x	-	-
GEF-5	GENERAL EXHAUST FAN	636	1/4	-	-	-	-	120	1	1AL1	35	20A/1P	2 #12 & 1 #12 GRD.	3/4"	-	x	-	-
GEF-6	GENERAL EXHAUST FAN	636	1/4	-	-	-	-	120	1	1FL1	37	20A/1P	2 #12 & 1 #12 GRD.	3/4"	-	x	-	-
GEF-7	GENERAL EXHAUST FAN	1176	1/2	-	-	-	-	120	1	1GL1	55	20A/1P	2 #12 & 1 #12 GRD.	3/4"	-	x	-	-
TEF-1	TOILET EXHAUST FAN	1656	3/4	-	-	-	-	120	1	1AL1	37	25A/1P	2 #10 & 1 #10 GRD.	3/4"	-	x	-	-
CH-1	HOT WATER CABINET HEATER	600	(2) 1/10	-	-	-	-	120	1	1AL1	9	20A/1P	2 #12 & 1 #12 GRD.	3/4"	x	-	-	-
CH-2	HOT WATER CABINET HEATER	600	(2) 1/10	-	-	-	-	120	1	1GL1	VARIES	20A/1P	2 #12 & 1 #12 GRD.	3/4"	x	-	-	-
CH-3	HOT WATER CABINET HEATER	300	(1) 1/15	-	-	-	-	120	1	1GL1	VARIES	20A/1P	2 #12 & 1 #12 GRD.	3/4"	x	-	-	-
TWH-1	TANKLESS WATER HEATER	220	-	-	-	2	-	120	1	1FLX	3	20A/1P	2 #12 & 1 #12 GRD.	3/4"	-	-	-	-
TWH-2	TANKLESS WATER HEATER	220	-	-	-	2	-	120	1	1FLX	3	20A/1P	2 #12 & 1 #12 GRD.	3/4"	-	-	-	-
TWH-3	TANKLESS WATER HEATER	220	-	-	-	2	-	120	1	1FLX	3	20A/1P	2 #12 & 1 #12 GRD.	3/4"	-	-	-	-
TWH-4	TANKLESS WATER HEATER	220	-	-	-	2	-	120	1	1FLX	3	20A/1P	2 #12 & 1 #12 GRD.	3/4"	-	-	-	-
TWH-5	TANKLESS WATER HEATER	220	-	-	-	2	-	120	1	1FLX	5	20A/1P	2 #12 & 1 #12 GRD.	3/4"	-	-	-	-
TWH-6	TANKLESS WATER HEATER	220	-	-	-	2	-	120	1	1HLX	6	20A/1P	2 #12 & 1 #12 GRD.	3/4"	-	-	-	-
TWH-7	TANKLESS WATER HEATER	220	-	-	-	2	-	120	1	1HLX	6	20A/1P	2 #12 & 1 #12 GRD.	3/4"	-	-	-	-
RCP-1	RECIRCULATING PUMP	528	1/6	-	-	-	-	120	1	1FLX	7	20A/1P	2 #12 & 1 #12 GRD.	3/4"	-	-	-	-
RCP-2	RECIRCULATING PUMP	300	1/12	-	-	-	-	120	1	1HLX	8	20A/1P	2 #12 & 1 #12 GRD.	3/4"	-	-	-	-

AD-3 (1HLX 6) AD-3 (1HLX 8)

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	LOAD WATTS	LOAD HP	LOAD MCA	LOAD FLA	LOAD AMPS	MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH C/B	FEEDER CABLE	FEEDER C	STARTER BY: MC.	STARTER BY: EC.
VRF-3A	CEILING CONCEALED COOLING/HEATING UNIT	375	-	1.8	-	-	15	208	1	P1	31-33	15A/2P	3 #12 & 1 #12 GRD.	3/4"	-	x
VRF-3B	CEILING CONCEALED COOLING/HEATING UNIT	375	-	1.8	-	-	15	208	1	P1	31-33	15A/2P	3 #12 & 1 #12 GRD.	3/4"	-	x
VRF-3C	CEILING CONCEALED COOLING/HEATING UNIT	375	-	1.8	-	-	15	208	1	P1	31-33	15A/2P	3 #12 & 1 #12 GRD.	3/4"	-	x
VRF-3D	CEILING CONCEALED COOLING/HEATING UNIT	375	-	1.8	-	-	15	208	1	P1	31-33	15A/2P	3 #12 & 1 #12 GRD.	3/4"	-	x

PUMP EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	LOAD WATTS	HP	MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH C/B	FEEDER CABLE	FEEDER C	STARTED BY: MC.	STARTED BY: EC.	LOCATION	REMARKS
HWP-1	HOT WATER PUMP	31371	25	-	480	3	DPHX-2	-	50A/3P	4 #6 & 1 #10 GRD.	1"	X	-	-	VARIABLE FREQUENCY DRIVE
HWP-2	HOT WATER PUMP	31371	25	-	480	3	DPHX-2	-	50A/3P	4 #6 & 1 #10 GRD.	1"	X	-	-	VARIABLE FREQUENCY DRIVE
CP-1	CHILLER PUMP	11626	10	-	480	3	1FH2	19-21-23	25A/3P	4 #10 & 1 #10 GRD.	3/4"	X	-	-	PROVIDE NEW BREAKER IN EX PANEL
CP-2	CHILLER PUMP	11626	10	-	480	3	1FH2	25-27-29	25A/3P	4 #10 & 1 #10 GRD.	3/4"	X	-	-	PROVIDE NEW BREAKER IN EX PANEL
CWP-1	CHILLED WATER PUMP	24912	20	-	480	3	M8BH	-	40A/3P	4 #8 & 1 #10 GRD.	3/4"	X	-	-	VARIABLE FREQUENCY DRIVE
CWP-2	CHILLED WATER PUMP	24912	20	-	480	3	M8BH	-	40A/3P	4 #8 & 1 #10 GRD.	3/4"	X	-	-	VARIABLE FREQUENCY DRIVE

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MILLIES ENGINEERING GROUP (219) 924-5400 www.milliesengineeringgroup.com

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

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PROJECT 21-106
DATE 03/14/22
COORDINATED BY SM
DRAWN BY BAK/AG/MD
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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AD-3	04/11/22	ADDENDUM NO. 3

DRAWING
ELECTRICAL SCHEDULES

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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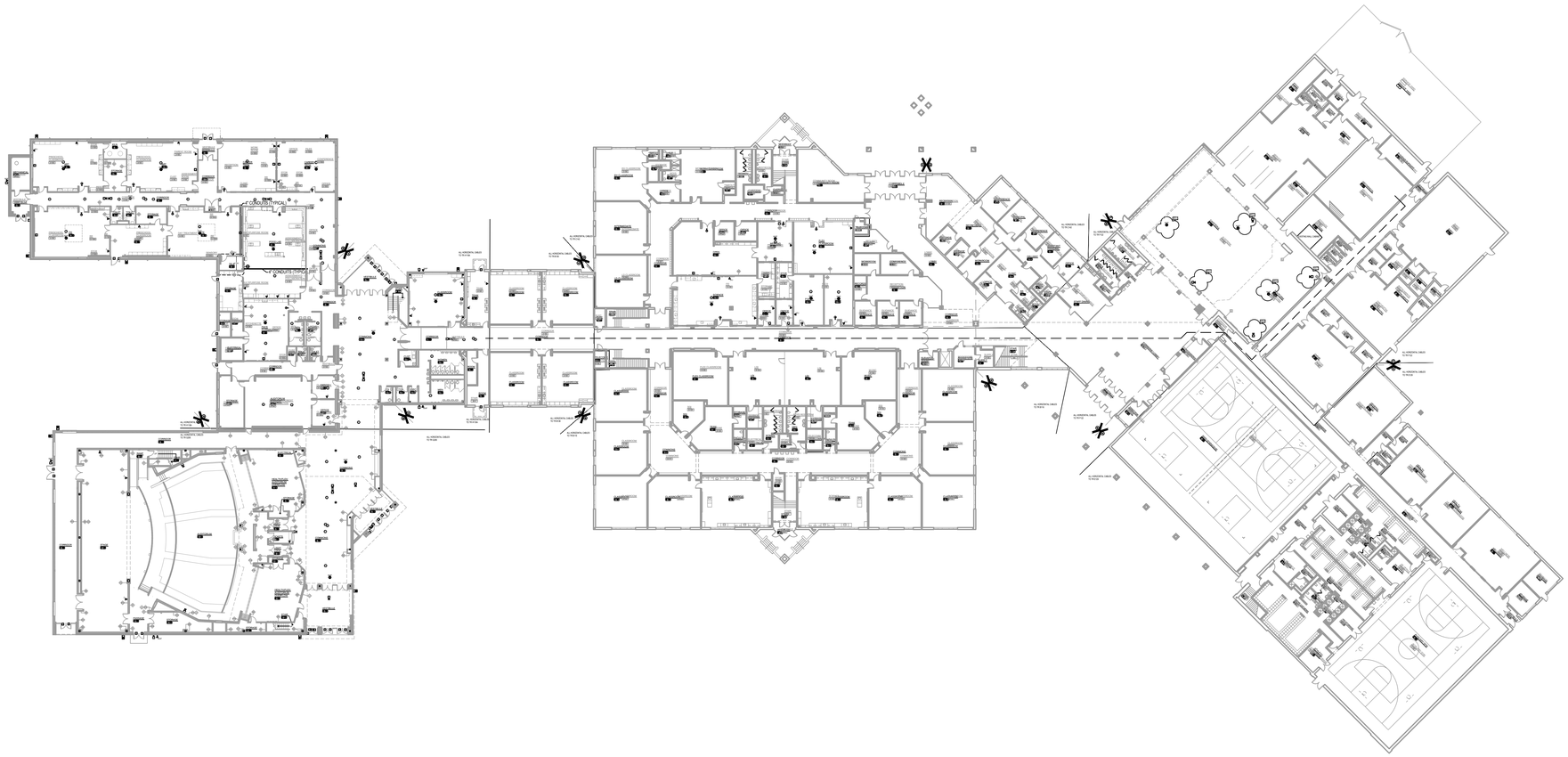
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PLAN NOTES:

(ALL NOTES MAY NOT BE USED ON THIS SHEET.)

1. NEW TELECOMMUNICATION OUTLET(S) TO BE INSTALLED IN SURFACE RACEWAY WHERE REQUIRED.
2. EXISTING CARD READER, TO BE RE-INSTALLED IN NEW DOOR FRAME.
3. EXISTING SECURITY CAMERA(S), TO BE RE-INSTALLED IN NEW CEILING.
4. AUDIO AND DATA CABLE TO TRAVEL WITH BLEACHERS.
5. PROVIDE CONDUIT FOR SPEAKER CABLE. ROUTE FROM SPEAKER TO SOUND CABINET.
6. EXISTING INCOMING WAN FIBER.



1 **TELECOMMUNICATIONS OVERALL FIRST FLOOR PLAN**
SCALE: 1/32" = 1'-0"

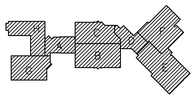
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PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION, AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA



FIRST FLOOR KEY PLAN

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Email info@GibraltarDesign.com
Phone 317.580.5777 Fax 317.580.5778

PROJECT 21–106
DATE 3/14/22
COORDINATED BY BKS
DRAWN BY TKP
CHECKED BY BKS

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Brian K Scott
BICSI ID # 114038
EXPIRES 12-31-24
RCDD

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AD.03	4/11/22	ADDENDUM 3

DRAWING
TELECOMMUNICATIONS OVERALL FIRST FLOOR PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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PLAN NOTES:

(ALL NOTES MAY NOT BE USED ON THIS SHEET.)

1. NEW TELECOMMUNICATION OUTLET(S) TO BE INSTALLED IN SURFACE RACEWAY WHERE REQUIRED.
2. EXISTING CARD READER, TO BE RE-INSTALLED IN NEW DOOR FRAME.
3. EXISTING SECURITY CAMERA(S), TO BE RE-INSTALLED IN NEW CEILING.
4. AUDIO AND DATA CABLE TO TRAVEL WITH BLEACHERS.
5. PROVIDE CONDUIT FOR SPEAKER CABLE. ROUTE FROM SPEAKER TO SOUND CABINET.
6. EXISTING INCOMING WAN FIBER.



1 TELECOMMUNICATIONS UNIT "F" FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

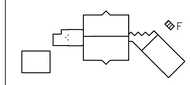
2 TELECOMMUNICATIONS UNIT "F" SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

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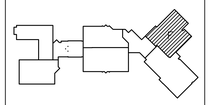
PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION, AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA



SECOND FLOOR KEY PLAN



FIRST FLOOR KEY PLAN

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PROJECT 21–106
DATE 3/14/22
COORDINATED BY BKS
DRAWN BY TKP
CHECKED BY BKS

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
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Brian K Scott
BICSI ID # 1140338
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AD.03	4/11/22	ADDENDUM 3

DRAWING
TELECOMMUNICATIONS UNIT "F" FIRST AND SECOND FLOOR PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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GENERAL DEMOLITION NOTES:

1. THE CONTRACT DOCUMENTS DO NOT PROPOSE TO SHOW ALL SYSTEMS, MATERIALS, OR EQUIPMENT EXISTING ON THE PROJECT THAT WILL REQUIRE DEMOLITION. DEMOLITION DRAWINGS ARE BASED ON PARTIAL FIELD OBSERVATION. REPORT DISCREPANCIES TO THE CONSULTANT BEFORE DISTURBING EXISTING INSTALLATION.
2. REMOVE ALL ABANDONED CABLING AS DEFINED BY THE NEC.
3. ALL REMOVED TECHNOLOGY AND / OR SECURITY DEVICE TO BE INVENTORIED AND TURNED OVER TO THE OWNER. PROTECT AND STORE AS DIRECTED BY THE OWNER.
4. IDENTIFY ITEMS TO BE SALVAGED WITH THE OWNER. PROVIDE NON-DESTRUCTIVE REMOVAL OF SYSTEMS, MATERIALS, AND EQUIPMENT FOR REUSE OR SALVAGE AS INDICATED.
5. REMOVE ALL COMMUNICATIONS DEBRIS FROM SITE AND LEGALLY DISPOSE OF IT.
6. COORDINATE ALL LOW VOLTAGE DEMO ACTIVITY WITH CONSTRUCTION MANAGER, REVIEW DEMO PHASING PLANS.
7. CONTRACTOR UNDERSTANDS THAT ADJACENT AREAS NEED TO REMAIN IN OPERATION AND THAT SERVICES TO THESE AREAS NEED TO BE MAINTAINED.
8. CONTRACTOR SHALL NOTIFY THE OWNER AND CONSULTANT NO LESS THAN THREE DAYS IN ADVANCE BEFORE COMMENCING ANY DEMOLITION TO INSURE THAT NO ADJACENT OCCUPIED AREAS WILL BE DISRUPTED.
9. FIRE STOP ANY SLEEVES WHERE CABLES HAVE BEEN REMOVED.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TELEPHONE, DATA, CENTRAL SOUND, SECURITY CCTV AND ALARM SYSTEM SERVICES IN ALL EXISTING AREAS FOR DURATION OF PROJECT FOR MULTI-PHASED PROJECTS. CONTRACTOR SHALL COLLABORATE WITH OWNER'S TECHNOLOGY PERSONNEL AS NECESSARY AND PROVIDE TEMPORARY WIRING, CROSS-CONNECTS, TERMINATION DEVICES, AND LABOR TO MAINTAIN OPERATION ACCEPTABLE TO THE OWNER. CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION RELATED TO PHASING.

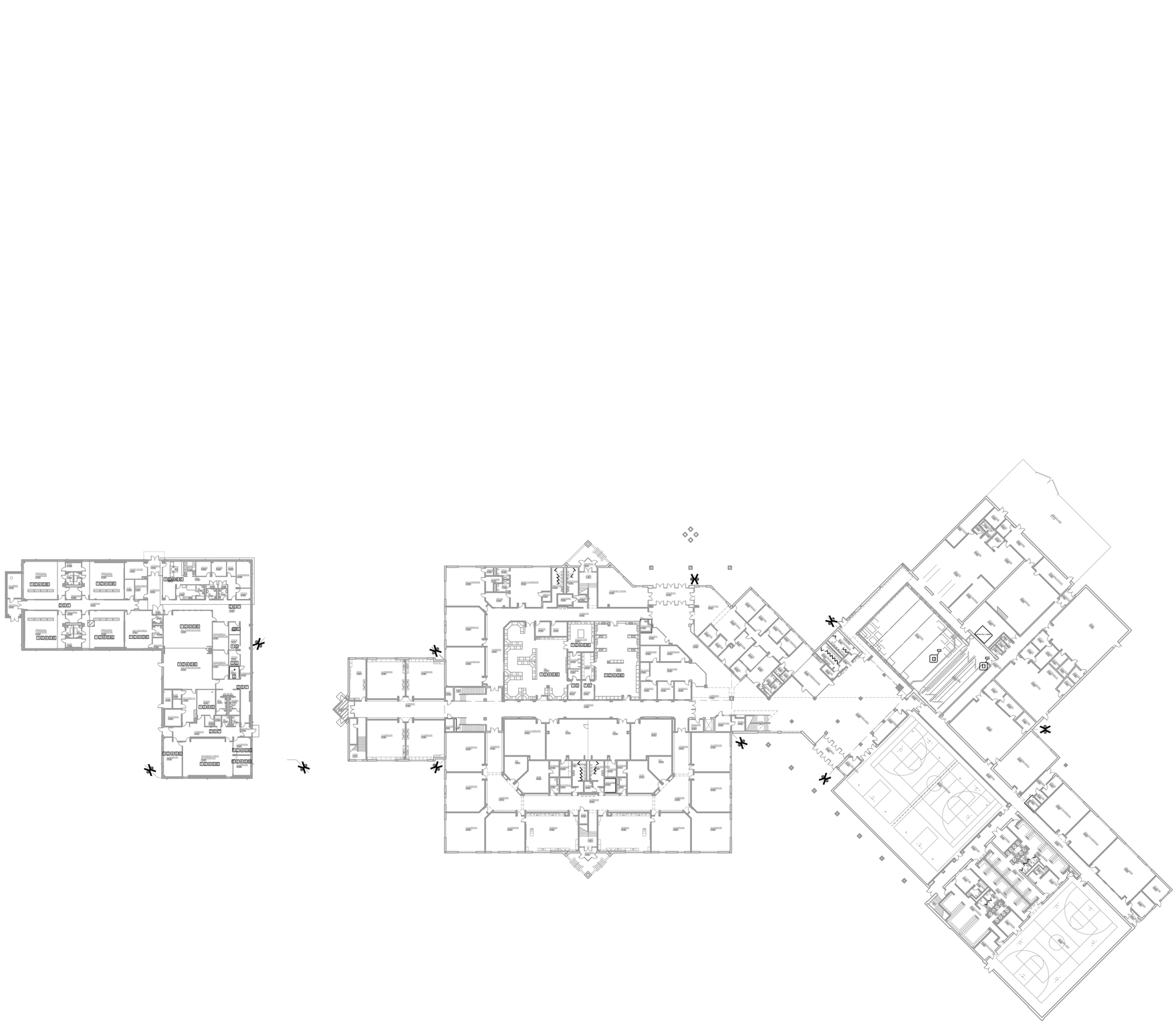
DEMOLITION NOTES:

(ALL DEMOLITION NOTES MAY NOT BE USED ON THIS SHEET.)

1. EXISTING TELECOMMUNICATION OUTLET(S) TO BE REMOVED. REMOVE CABLE BACK TO THE SOURCE. IF OUTLET(S) ARE IN SURFACE RACEWAY REMOVE SURFACE RACEWAY.
2. EXISTING WIRELESS ACCESS POINT(S) TO BE REMOVED. REMOVE CABLE BACK TO THE SOURCE.
3. EXISTING DATA CABINET TO BE REMOVED. REMOVE FIBER CABLING ASSOCIATED WITH DATA CABINET BACK TO THE SOURCE.
4. EXISTING CLOCK TO BE REMOVED. SECURELY STORE IN A LOCATION DESIGNATED BY OWNER.
5. EXISTING INTERCOM SPEAKER TO BE REMOVED.
6. EXISTING AUDIO/VIDEO DEVICES, PROJECTOR,TELEVISION, INTERACTIVE BOARD, AND RELATED MOUNTS AND CABLING, ETC.) TO BE REMOVED. SECURELY STORE IN A LOCATION DESIGNATED BY OWNER.
7. EXISTING SECURITY DEVICES (CAMERAS, CARD READER, CONTROLLER, DOOR INTERCOM ETC.) AND RELATED MOUNTS TO BE REMOVED. REMOVE CABLE BACK TO THE SOURCE.
8. EXISTING SECURITY CAMERA(S) TO REMAIN. CEILING MOUNTED UNITS SHALL BE DISCONNECTED FROM CEILING TILE AND TEMPORARILY SUPPORTED TO STRUCTURE ABOVE CEILING.
9. EXISTING INTERCOM SPEAKER TO REMAIN. DISCONNECT FROM CEILING TILE AND PROVIDE TEMPORARY ABOVE CEILING SUPPORT.
10. EXISTING WIRELESS ACCESS POINT TO REMAIN. DISCONNECT FROM CEILING TILE AND PROVIDE TEMPORARY ABOVE CEILING SUPPORT. REMOVE THE ABANDONED CABLE TO CABINETS AFTER CUT-OVER TO NEW CABLING.

AD.3

11. EXISTING SOUND SYSTEM CABINETS AND EQUIPMENT TO BE REMOVED BY THE OWNER.
12. EXISTING SOUND SYSTEM SPEAKERS, (RELATED MOUNTS AND CABLING, ETC.) TO BE REMOVED. SECURELY STORE IN A LOCATION DESIGNATED BY OWNER.



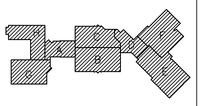
1 **TELECOMMUNICATIONS OVERALL FIRST FLOOR DEMO PLAN**
SCALE: 1/32" = 1'-0"

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PROJECT

COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION, AND RELATED WORK

CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA



FIRST FLOOR KEY PLAN

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DATE 3/14/22
COORDINATED BY BKS
DRAWN BY TKP
CHECKED BY BKS

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI Brian K Scott BICSI ID # 1140538 EXPIRES 12-31-24 RCDD

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AD.03	4/11/22	ADDENDUM 3

DRAWING
TELECOMMUNICATIONS OVERALL FIRST FLOOR DEMO PLAN

PROJECT
COLONEL JOHN WHEELER MIDDLE SCHOOL ADDITION, RENOVATION AND RELATED WORK

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