ADDENDUM
NO. 1

July 27, 2026

MERRILLVILLE HS CULINARY AND MEETING AREA RENOVATIONS AND MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION PROJECT

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 July 14, 2026 by Gibraltar Design. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of pages ADD 1-1 through ADD 1-5 and attached and attached Addendum No. 1 from Gibraltar Design dated July 24, 2026, and consisting of 8 pages, revised Specification Section 08 71 00 - Door Hardware and 47 Drawings.

A. SPECIFICATION SECTION 00 31 00 - INDIANA BID FORM

1. **REPLACE:**

   Specification Section 00 31 00 - Indiana Bid Form with the attached revised Bid Form

B. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

Under 1.09 Permits, Fees and Notices

1. **REPLACE** the first line to read: The **Bid Category No. 1 Contractor** shall secure the building permit for the Owner.

Under 3.03 Bid Categories

A. BID CATEGORY NO. 1 - GENERAL TRADES

1. **REPLACE:**

Clarification No. 10:
The **Bid Category No. 1 Contractor** shall provide two (2) sets of temporary 4' wide hinged door openings to maintain emergency egress at two ends of the Culinary Renovations throughout construction. Include relocating the temporary door assemblies up to two (2) times to accommodate the progress and sequencing of the Work, as directed by the Construction Manager.

2. **ADD:**

Clarification No. 19:
Regarding Specification Section 11 40 00 Food Service Equipment; any reference in the specifications and/or drawings to "GD - General Division or General Contractor" is the responsibility of the **Bid Category No. 1 Contractor**. Any reference in the specifications and/or drawings to "PD - Plumbing Division or Plumbing Contractor" is the responsibility of the **Bid Category No. 6 Contractor**. Any reference in the specifications and/or drawings to "HVAC/Ventilation or HVAC Contractor" is the responsibility of the **Bid Category No. 7 Contractor**. Any reference in the specifications and/or drawings to "Fire Protection Division or Fire Protection Contractor" is the responsibility of the **Bid Category No. 7 Contractor**. Any reference in the specifications and/or drawings to "ED - Electrical Division or Electrical Contractor" is the responsibility of the **Bid Category No. 8 Contractor**.

Clarification No. 20:
Reference Culinary Lab 1. Except for the lavatory sinks, all equipment within the work area shall be disconnected and/or relocated away from the walls so they can be painted. The **Bid Category No. 1 Contractor** shall be responsible for moving the equipment off the walls after the **Bid Category No. 6**, **Bid Category No. 7**, and **Bid Category No. 8 Contractors** have disconnected all services associated with their respective work. Upon completion of painting, the **Bid Category No. 1 Contractor** shall reinstall all equipment to its original location. The **Bid Category No. 6**, **Bid Category No. 7**, and **Bid Category No. 8 Contractors** shall reconnect all services required for the equipment to be fully operational. Additionally, all surface-mounted electrical, plumbing, and gas services within the work area shall be removed as required to complete painting and subsequently reinstalled. Surface mounted piping is primarily located at the center half wall beneath the existing hood and within the ware washing area.

F. BID CATEGORY NO. 6 - PLUMBING

1. **ADD:**

Clarification No. 10:
Reference Culinary Lab 1. Except for the lavatory sinks, all equipment within the work area shall be disconnected and/or relocated away from the walls so they can be painted. The **Bid Category No. 1 Contractor** shall be responsible for moving the equipment off the walls after the **Bid Category No. 6**, **Bid Category No. 7**, and **Bid Category No. 8 Contractors** have disconnected all services associated with their respective work. Upon completion of painting, the **Bid Category No. 1 Contractor** shall reinstall all equipment to its original location. The **Bid Category No. 6**, **Bid Category No. 7**, and **Bid Category No. 8 Contractors** shall reconnect all services required for the equipment to be fully operational. Additionally, all surface-mounted electrical, plumbing, and gas services within the work area shall be removed as required to complete painting and subsequently reinstalled. Surface mounted piping is primarily located at the center half wall beneath the existing hood and within the ware washing area.

G. BID CATEGORY NO. 7 - MECHANICAL

1. **ADD:**

Clarification No. 9:
Reference Culinary Lab 1. Except for the lavatory sinks, all equipment within the work area shall be disconnected and/or relocated away from the walls so they can be painted. The **Bid Category No. 1 Contractor** shall be responsible for moving the equipment off the walls after the **Bid Category No. 6, Bid Category No. 7,** and **Bid Category No. 8 Contractors** have disconnected all services associated with their respective work. Upon completion of painting, the **Bid Category No. 1 Contractor** shall reinstall all equipment to its original location. The **Bid Category No. 6, Bid Category No. 7,** and **Bid Category No. 8 Contractors** shall reconnect all services required for the equipment to be fully operational. Additionally, all surface-mounted electrical, plumbing, and gas services within the work area shall be removed as required to complete painting and subsequently reinstalled. Surface mounted piping is primarily located at the center half wall beneath the existing hood and within the ware washing area.

H. BID CATEGORY NO. 8 - ELECTRICAL

1. **ADD:**

Clarification No. 11:
Reference Culinary Lab 1. Except for the lavatory sinks, all equipment within the work area shall be disconnected and/or relocated away from the walls so they can be painted. The **Bid Category No. 1 Contractor** shall be responsible for moving the equipment off the walls after the **Bid Category No. 6**, **Bid Category No. 7**, and **Bid Category No. 8 Contractors** have disconnected all services associated with their respective work. Upon completion of painting, the **Bid Category No. 1 Contractor** shall reinstall all equipment to its original location. The **Bid Category No. 6**, **Bid Category No. 7**, and **Bid Category No. 8 Contractors** shall reconnect all services required for the equipment to be fully operational. Additionally, all surface-mounted electrical, plumbing, and gas services within the work area shall be removed as required to complete painting and subsequently reinstalled. Surface mounted piping is primarily located at the center half wall beneath the existing hood and within the ware washing area.

C. SPECIFICATION SECTION 01 23 00 - ALTERNATES

Under 1.04 Schedule of Alternates

1. **ADD:**

E. **ALTERNATE NO. 5**: Contractor is to remove the existing Rooftop Unit and provide a new Rooftop Unit RT1 and Exhaust Fan GEF 9, as indicated on Addendum #1 Sheets MD121, MD201, MV121, MP 121, M-201, and M-501, for Cooling and Exhaust for Equipment Tech Room T-126 and Electrical Room T-127. Note, the scope includes all associated electrical work and Roof Membrane repairs, which will be clarified further in Addendum #2. **Base Bid Scope**: Leave existing system as is.

CONTRACTOR'S BID FOR PUBLIC WORKS FORM NO. 96

Format (Revised 2013)
(Amended for MCSC)

Merrillville HS Culinary and Meeting Area Renovations and Merrillville CSC Central Office Addition and Renovation Project

Merrillville Community School Corporation
Merrillville, 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, ***Merrillville HS Culinary and Meeting Area Renovations and Merrillville CSC Central Office Addition and Renovation Project***, in accordance with Plans and Specifications prepared by ***Gibraltar Design, 4030 Vincennes Rd., Suite #100, Indianapolis, IN 46268***, as follows:

BASE BID

For the sum of _____
(Sum in words)
_____DOLLARS ($_____)
(Sum in figures)

The undersigned acknowledges receipt of the following Addenda:

Receipt of Addenda No. (s) _____

PROPOSAL TIME

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

Attended pre-bid conference YES _____ NO_____

Has visited the jobsite YES _____ NO_____

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

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

YES _____ NO_____

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

Bidder has included:

DBE: YES _____% NO _____
MBE: YES _____% NO _____
WBE: YES _____% NO _____
VBE: YES _____% NO _____

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

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

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

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

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

ALTERNATE BIDS

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

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

Alternate Bid No. 1 - New Quarry Tile Flooring & Wall Base

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

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

Alternate Bid No. 2 - New Fiber

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

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

Alternate Bid No. 3 - Mechanical Equipment Manufactured by York

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

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

Alternate Bid No. 4 - Building Systems Controls Provided by Precision Controls

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

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

Alternate Bid No. 5 - New Rooftop Unit and Fan for IT and Electrical Room

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 require 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 ONE

Addendum One (AD.01) to the drawings and specifications prepared by Gibraltar Design for **Merrillville HS Culinary and Meeting Area Renovations and Merrillville CSC Central Office Addition and Renovation** for Merrillville Community School Corporation, Merrillville, Indiana.

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

SPECIFICATIONS

1. **Specification Section 03 30 00 Concrete**

   A. Add new Paragraph 2.4.G.1.c. as follows: "c. AVECS, Pro-Act MVRA." As an acceptable manufacturer and product.

2. **Specification Section 05 12 00 Structural Steel**

   A. Add to Paragraph 1.8.A. the following sentence: "In lieu of the AISC Certification, the Fabricator can substitute SMI Certification or IDAO Certification."

3. **Specification Section 05 50 00 Miscellaneous Metals**

   A. Add new Paragraph 3.3.E. as follows:

   "E. Folding Door and Partition Supports:

      1. All steel channels, hanger rods, stiffeners, bracing, and miscellaneous structural members required.

         a. The threaded rods between structural support and folding partition track will be provided by the Folding Door and Folding Partition Contractors.

      2. Anchor channel supports at jambs securely to floor and construction above.

      3. Drill bolt holes to support track where designated by door and partition manufacturer."

4. **Specification Section 08 71 00 Door Hardware**

   A. Replace in its entirety Specification Section 08 71 00, Door Hardware included in this addendum.

5. **Specification Section 10 22 26 Folding Partitions**

   A. Add Paragraph 2.1.C. as follows: "C. Moderco Inc., Saint-Hubert, Quebec, Canada; Model #842." as an acceptable manufacturer.

6. Specification Section 10 22 27 Glass Folding Partitions

A. Add Paragraph 2.1.D. as follows: "D. Moderco Inc., Saint-Hubert, Quebec, Canada; Crystal." as an acceptable manufacturer.

7. Specification Section 11 40 00 Food Service Equipment

A. Revise Paragraph 3.11, Equipment Schedule/Specifications for the following:

"ITEM NO 44 COOKING VENTILATION SYSTEM

QUANTITY – ONE

MFG AND MODEL: MASTER AIR EH

ELEC. REQ'M'TS: 120-1 AND 208-3

1. Delete all references to the Ansul Fire Protection System, this system is not required."

DRAWINGS

MERRILLVILLE HS CULINARY AND MEETING AREA RENOVATIONS

8. Sheet AD121

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

1. Repair quarry tile wall base in room Office T-143. See plan for locations.
2. Replacement of door to Kitchen ET-106 from Passage ET-121.
3. Replacement of door to Cook's lounge ET-107 from Kitchen ET-107

9. Sheet A-121

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

1. Revised locker count. A total of (48) full height lockers required.
2. Added door T-104C to floor plan.

10. Sheet A-310

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

a. Added notes to remove existing metal panel for installation of window.
b. Updated graphic showing integral blinds in window.

11. Sheet A-501

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

a. Updated 5/A-501, Typical Locker Elevations.

12. Sheet A-601

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

a. Omitted detail 13/A-601.
b. Added callouts to Folding Partition Legend 12/A-601.
c. Added callouts to Aluminum Window Legend 9/A-601.
d. Revised Door and Frame Schedule.

13. Sheet A-721

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Omitted wall protection in Storage T-111 and Passage T-114A.

14. Sheet A-821

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Added plan notes 23 and 24 to plan notes. See plan for locations.
   2. Revised Office T-143 finishes.

15. Sheet A-921

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Added section references in Meeting Room 3 T-105.
   2. Added plan note 8 to plan notes. See plan for locations.

16. Sheet A-951

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Added and revised bulkhead details 8/A-951 and 9/A-951.
   2. Revised note on detail 3/A-951.

17. Sheet FS1.2

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Revised Contractor Note.

18. Sheet FS4.01

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Delete all references to the Ansul Fire Protection System. This system is not required.

      ITEM NO. 44 COOKING VENTILATION SYSTEM

      QUANTITY ONE

      MFG. AND MODEL: MASTER AIR EH

      ELEC. REQ'M'TS: 120-1 AND 208-3

19. Sheet PD121

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Added Sheet Note #12.
   2. Revised Sheet Note #16.
   3. Added notes pertaining to the removal and protection of piping resultant of the repair of existing wall(s).

20. Sheet P-221

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Added Sheet Note #20.
   2. Added Sheet Note #21.
   3. Revised MB-1 within Laundry / Custodial – T-134 to MB-2.

4. Revised notes for existing Kitchen Equipment.
5. Added two #24 equipment tags for Kitchen Equipment.
   Added equipment tag #24.1 for Kitchen Equipment.
6. Added sheet notes for reinstallation of piping for existing Kitchen Equipment.
7. Added sheet note for installation of piping for new Kitchen Equipment.

21. Sheet P-501

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Added MB-2 to Plumbing Fixture Schedule

22. Sheet P-601

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Revised Mop Basin / Backflow Preventor Detail.

23. Sheet MD121

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Revised ductwork and diffusers in equipment technology room.
   2. Added note for existing gas piping and kitchen equipment.

24. Sheet MD201

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Removed existing rooftop unit

25. Sheet MV121

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Revised ductwork and diffusers in Equp Tech room T-126.
   2. Added GEF-8 to Tech room T-112
   3. Added exhaust ductwork and grille to electrical room.

26. Sheet MP121

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Added note for existing gas piping and kitchen equipment.
   2. Added thermostats to electrical and technology room.

27. Sheet M-201

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Added RT-1.

28. Sheet M-501

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Added RT-1, GEF-8, and GEF-9 to Mechanical Equipment Schedule.
   2. Added Note 8 and Note 9.
   3. Revised Note 2

29. Sheet M-601

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

1. Removed coil pumps from AH piping diagrams.

30. Sheet E-001

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Updated symbol list security and sheet symbols sections.

31. Sheet ED121

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Clarified multiple locations of mechanical equipment to be removed.
   2. Added sheet note 5.

32. Sheet EL121

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Coordinated lighting layout in Culinary Lab 2 with oven hoods.
   2. Added and removed multiple exit signs from lighting plan.
   3. Added touch screen controllers.

33. Sheet EP121

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Added DIS device to classroom.
   2. Added receptacles for washing receptacles
   3. Added sheet note 6.
   4. Added or revised miscellaneous technology devices
   5. Added connection to wireless hub.
   6. Modified pirate cove kitchen connections.
   7. Added matrix touch screen controllers.

34. Sheet E-501

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Added lighting fixture BC1 to lighting fixture schedule
   2. Modified lighting fixture schedule.
   3. Modified mechanical connection schedule.

35. Sheet E-502

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Modified panel schedules.

36. Sheet E-503

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Modified food service equipment schedule.

37. Sheet-E602

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Added detail note one to one-line.

38. Sheet T-001

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

1. Updated symbol list and low voltage general notes.

39. Sheet T-121

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

1. Added technology devices and notes
2. Revised technology device locations
3. Added camera connections.
4. Added matrix touch screen controllers.

40. Sheet T-601

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

1. Updated input station details

41. Sheet T-602

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

1. Updated access control wiring diagram

DRAWINGS

MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

42. Sheet AD-101

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

1. Revised plan note 16.
2. Added plan note 31 to plan notes. See plan for locations.
3. Added plan note 23 to floor plan at door from AD133.

43. Sheet A-101

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

1. Revised plan note 28.
2. Added plan note 29 to plan notes and floor plan.
3. Revised dimension of Storage A-142.

44. Sheet A-410

1. In lieu of "1" CLEAR INSULATED GLAZING IN ALUMINUM FRAME. MATCH EXISTING." Change note to say "1" CLEAR INSULATED GLAZING IN ALUMINUM FRAME. WITH INTEGRAL BLINDS. MATCH EXISTING.".

45. Sheet A-601

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

1. Revised glass type for wood frame elevations WD3, WD4, and WD6.

46. Sheet A-620

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Add callouts to Window Elevation 1/A-620 and Wood Window Elevations10/A-620.

47. Sheet A-901

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Updated plan to show missing light fixtures.

48. Sheet MP101

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Removed General Note

49. Sheet E-002

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Modified size of grounding electrode.

50. Sheet EL101

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Moved occupancy sensor in Conference A-132.
   2. Modified lumen package for downlights in Consult A-117.

51. Sheet EP101

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Rotated New 45 KVA transformer in Elec. A-133
   2. Moved New Panel PP-1 and New Disconnect Switch in Elec. A-133.
   3. Modified sheet note 3
   4. Modified Sheet Note 5 to read “NOT USED”
   5. Modified Sheet Note 5 pointing on exterior of building to Sheet Note 3

52. Sheet E-501

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Modified lighting fixture schedule to reflect updated lumen package.
   2. Modified panel schedule to reflect spare for door controllers.

53. Sheet T-001

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Updated symbol list and low voltage general notes.

54. Sheet T-002

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Updated access control wiring diagram

55. Sheet T-101

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.
   1. Added technology devices and notes

2. Revised technology device locations

Pages 1 through 8, inclusive, Specification Section 08 71 00, and Forty Seven (47) Full-Size Drawings, constitute the total makeup of **Addendum One**.

GIBRALTAR DESIGN

Joseph P. Briggs

Y:\25-180 Merrillville CSC - Merrillville HS - First Floor Improvements\Specs\AD01\AD01.doc

SECTION 08 71 00
DOOR HARDWARE

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes:

1. Mechanical and electrified door hardware
2. Electronic access control system components

B. Section excludes:

1. Windows
2. Cabinets (casework), including locks in cabinets
3. Signage
4. Toilet accessories
5. Overhead doors

C. Related Sections:

1. Division 01 "General Requirements" sections for Allowances, Alternates, Owner Furnished Contractor Installed, Project Management and Coordination.
2. Division 06 Section "Rough Carpentry"
3. Division 06 Section "Finish Carpentry"
4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
5. Division 08 Sections:
   a. "Metal Doors and Frames"
   b. "Flush Wood Doors"
   c. "Stile and Rail Wood Doors"
   d. "Interior Aluminum Doors and Frames"
   e. "Aluminum-Framed Entrances and Storefronts"
   f. "Stainless Steel Doors and Frames"
   g. "Special Function Doors"
   h. "Entrances"
6. Division 26 "Electrical" sections for connections to electrical power system and for low-voltage wiring.
7. Division 28 "Electronic Safety and Security" sections for coordination with other components of electronic access control system and fire alarm system.

1.02 REFERENCES

A. UL LLC

1. UL 10B - Fire Test of Door Assemblies
2. UL 10C - Positive Pressure Test of Fire Door Assemblies
3. UL 1784 - Air Leakage Tests of Door Assemblies

4. UL 305 - Panic Hardware

B. DHI - Door and Hardware Institute

1. Sequence and Format for the Hardware Schedule
2. Recommended Locations for Builders Hardware
3. Keying Systems and Nomenclature
4. Installation Guide for Doors and Hardware

C. NFPA – National Fire Protection Association

1. NFPA 70 – National Electric Code
2. NFPA 80 – Standard for Fire Doors and Other Opening Protectives
3. NFPA 101 – Life Safety Code
4. NFPA 105 – Smoke and Draft Control Door Assemblies
5. NFPA 252 – Fire Tests of Door Assemblies

D. ANSI - American National Standards Institute

1. ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities
2. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
3. ANSI/BHMA A156.28 - Recommended Practices for Keying Systems
4. ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors
5. ANSI/SDI A250.8 - Standard Steel Doors and Frames

1.03 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
2. Prior to forwarding submittal:
   a. Review drawings and Sections from related trades to verify compatibility with specified hardware.
   b. Highlight, encircle, or otherwise specifically identify on submittals: deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.

B. Action Submittals:

1. Product Data: Submit technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
   a. Wiring Diagrams: For power, signal, and control wiring and including:
      1) Details of interface of electrified door hardware and building safety and security systems.
      2) Schematic diagram of systems that interface with electrified door hardware.
      3) Point-to-point wiring.
      4) Risers.

3. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.
   a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.

4. Door Hardware Schedule:
   a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule.
   b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
   c. Indicate complete designations of each item required for each opening, include:
      1) Door Index: door number, heading number, and Architect's hardware set number.
      2) Quantity, type, style, function, size, and finish of each hardware item.
      3) Name and manufacturer of each item.
      4) Fastenings and other pertinent information.
      5) Location of each hardware set cross-referenced to indications on Drawings.
      6) Explanation of all abbreviations, symbols, and codes contained in schedule.
      7) Mounting locations for hardware.
      8) Door and frame sizes and materials.
      9) Degree of door swing and handing.
      10) Operational Description of openings with electrified hardware covering egress, ingress (access), and fire/smoke alarm connections.

5. Key Schedule:
   a. After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
   b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
   c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
   d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
   e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
   f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

C. Informational Submittals:

1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
2. Provide Product Data:
   a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
   b. Include warranties for specified door hardware.

D. Closeout Submittals:

1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:
   a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
   b. Catalog pages for each product.
   c. Final approved hardware schedule edited to reflect conditions as installed.
   d. Final keying schedule
   e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.
   f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.

E. Inspection and Testing:

1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for:
   a. Fire door assemblies, in compliance with NFPA 80.
   b. Required egress door assemblies, in compliance with NFPA 101.

1.04 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

1. Supplier: Recognized architectural hardware supplier with a minimum of 5 years documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
2. Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.
3. Architectural Hardware Consultant: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:
   a. For door hardware: DHI certified AHC or DHC.
   b. Can provide installation and technical data to Architect and other related subcontractors.
   c. Can inspect and verify components are in working order upon completion of installation.
   d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.

4. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

B. Certifications:

1. Fire-Rated Door Openings:
   a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.

b. Provide only items of door hardware that are listed products tested by UL LLC, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.

2. Smoke and Draft Control Door Assemblies:
   a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
   b. Comply with the maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.

3. Electrified Door Hardware
   a. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.

4. Accessibility Requirements:
   a. Comply with governing accessibility regulations cited in "REFERENCES" article 087100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.

C. Pre-Installation Meetings

1. Keying Conference
   a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
      1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
      2) Preliminary key system schematic diagram.
      3) Requirements for key control system.
      4) Requirements for access control.
      5) Address for delivery of keys.

2. Pre-installation Conference
   a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
   b. Inspect and discuss preparatory work performed by other trades.
   c. Inspect and discuss electrical roughing-in for electrified door hardware.
   d. Review sequence of operation for each type of electrified door hardware.
   e. Review required testing, inspecting, and certifying procedures.
   f. Review questions or concerns related to proper installation and adjustment of door hardware.

3. Electrified Hardware Coordination Conference:
   a. Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping

B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.

C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.

D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.

E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.

F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.06 COORDINATION

A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.

B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.

D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

1.07 WARRANTY

A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.

1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
    a. Mechanical Warranty
        1) Locks
            a) Schlage L Series: 10 years
        2) Exit Devices
            a) Von Duprin: 10 years
        3) Closers
            a) LCN 4000 Series: 30 years
    b. Electrical Warranty
        1) Locks
            a) Schlage: 3 years
        2) Exit Devices

a) Von Duprin: 3 years

1.08 MAINTENANCE

A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

B. Turn over unused materials to Owner for maintenance purposes.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. The Owner requires use of certain products for their unique characteristics and project suitability to ensure continuity of existing and future performance and maintenance standards. After investigating available product offerings, the Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: "No Substitute."

1. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.

B. Approval of alternate manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category are only to be considered by official substitution request in accordance with section 01 25 00.

C. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.

D. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.02 MATERIALS

A. Fabrication

1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer’s recognized installation standards for application intended.
2. Finish exposed screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
3. Provide concealed fasteners wherever possible for hardware units exposed when door is closed. Coordinate with “Metal Doors and Frames”, “Flush Wood Doors”, “Stile and Rail Wood Doors” to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.

B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

C. Cable and Connectors:

1. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with number and gage of wires enough to accommodate electric function of specified hardware.
2. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices.
3. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies.

2.03 HINGES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Ives 5BB series

2. Acceptable Manufacturers and Products:
   a. Hager BB1191/1279 series
   b. Best FBB series

B. Requirements:

1. Provide hinges conforming to ANSI/BHMA A156.1.
2. Provide five knuckle, ball bearing hinges.
3. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
   a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
   b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high

4. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
   a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high

5. 2 inches or thicker doors:
   a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high

6. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
7. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
8. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
   a. Steel Hinges: Steel pins
   b. Non-Ferrous Hinges: Stainless steel pins
   c. Out-Swinging Exterior Doors: Non-removable pins
   d. Out-Swinging Interior Lockable Doors: Non-removable pins
   e. Interior Non-lockable Doors: Non-rising pins

9. Provide hinges with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component. Provide mortar guard for each electrified hinge specified.

2.04 CONTINUOUS HINGES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Select
   b. ABH

B. Requirements:

1. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26, Grade 1.
2. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum.
3. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
4. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
5. On fire-rated doors, provide aluminum geared continuous hinges classified for use on rated doors by testing agency acceptable to authority having jurisdiction.
6. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
7. Provide hinges 1 inch (25 mm) shorter in length than nominal height of door, unless otherwise noted or door details require shorter length and with symmetrical hole pattern.

2.05 ELECTRIC POWER TRANSFER

A. Manufacturers:

1. Scheduled Manufacturer and Product:
   a. Von Duprin EPT-10

2. Acceptable Manufacturers and Products:
   a. ABH PT1000
   b. Securitron CEPT-10

B. Requirements:

1. Provide power transfer with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
2. Locate electric power transfer per manufacturer's template and UL requirements, unless interference with operation of door or other hardware items.

2.06 FLUSH BOLTS

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Burns
   b. Trimco

B. Requirements:

1. Provide automatic, constant latching, and manual flush bolts with forged bronze or stainless-steel face plates, extruded brass levers, and with wrought brass guides and strikes. Provide 12 inch (305 mm) steel or brass rods at doors up to 90 inches (2286 mm) in height. For doors over 90 inches (2286 mm) in height increase top rods by 6 inches (152 mm) for each additional 6 inches (152 mm) of door height. Provide dust-proof strikes at each bottom flush bolt.

2.07 MORTISE LOCKS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Schlage L9000 series

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide mortise locks conforming to ANSI/BHMA A156.13 Series 1000, Grade 1, and UL Listed for 3-hour fire doors.
2. Indicators: Where specified, provide indicator window measuring a minimum 2-inch x 1/2 inch with 180-degree visibility. Provide messages color-coded with full text and/or symbols, as scheduled, for easy visibility.
3. Provide locks manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance.
4. Provide lock case that is multi-function and field reversible for handing without opening case. Cylinders: Refer to “KEYING” article, herein.
5. Provide locks with standard 2-3/4 inches (70 mm) backset with full 3/4 inch (19 mm) throw stainless steel mechanical anti-friction latchbolt. Provide deadbolt with full 1-inch (25 mm) throw, constructed of stainless steel.
6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
7. Provide electrified options as scheduled in the hardware sets. Where scheduled, provide switches and sensors integrated into the locks and latches. Provide motor based electrified and motor based latch retraction locksets that comply with the following requirements:
   a. Universal input voltage – single chassis accepts 12 or 24VDC to allow for changes in the field without changing lock chassis.
   b. Fail Safe/Fail Secure – changing mode between electrically locked (fail safe) and electrically unlocked (fail secure) is field selectable without opening the lock case

c. Low maximum current draw – maximum 0.4 amps (Lever control) and maximum 2.0 amps (Latch retraction) to allow for multiple locks on a single power supply.
d. Low holding current (Lever control or latch retraction) – maximum 0.01 amps to produce minimal heat, eliminate “hot levers” in electrically locked applications and motorized latch retraction applications, and to provide reliable operation in wood doors that provide minimal ventilation and air flow.
e. Connections – provide quick-connect Molex system standard.

8. (OPTION Key Override) Provide locks with a key override feature built into the chassis that allows the outside key to retract the deadbolt and/or latchbolt, overriding the inside thumbturn when it is being held in the locked position - where the XL13-439 option is specified in the hardware sets.
9. Lever Trim: Solid brass, bronze, or stainless steel, cast or forged in design specified, with wrought roses and external lever spring cages. Provide thru-bolted levers with 2-piece spindles.
   a. (OPTION Vandlgard) Provide levers with vandal resistant technology for use at heavy traffic or abusive applications.
   b. Lever Design: Match existing lever style

2.08 EXIT DEVICES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Von Duprin 98/35A series

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
2. Cylinders: Refer to "KEYING" article, herein.
3. Provide smooth touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
4. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
5. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
6. Provide exit devices at pool gates with weather resistant components that can withstand harsh conditions of various climates and corrosive cleaners used in outdoor pool environments.
7. Provide flush end caps for exit devices.
8. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
9. Provide exit devices with manufacturers’ approved strikes.
10. Mount mechanism case flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
11. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
12. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.

13. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
14. Provide electrified options as scheduled.
15. Top latch mounting: double- or single-tab mount for steel doors, face mount for aluminum doors eliminating requirement of tabs, and double tab mount for wood doors.
16. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.
17. Special Options:
    a. SI
        1) Provide dogging indicators for visible indication of dogging status.
    b. XP
        1) Rim Exit Devices: provide devices with non-tapered smart latchbolt with 90° latchbolt to strike engagement under stress and Static Load Resistance of 2000 pounds.
    c. QM
        1) Rim Exit Devices: provide devices with damper-controlled re-latching to reduce operational noise. Where lever trim is specified, provide damper controlled lever return.
    d. HH
        1) Provide wind and impact rated hurricane exit devices and mullions certified to comply with Florida Building Code (FBC) TAS 201, 202, 203.
    e. HW
        1) Provide wind rated hurricane exit devices and mullions certified to comply with ANSI-ASTM E330.
    f. CX
        1) Provide delayed egress devices, where scheduled, that are UL 294 listed, meet National Fire Protection Association (NFPA) and International Building Code (IBC) governing delayed egress, and/or other local and national fire codes acceptable to authority having jurisdiction as required.
            a) Provide non-handed and field sizable device with 3/4 (19mm) throw deadlocking latch bolt. Device incorporates an internal RX switch that detects attempt to exit from applying less than 15lbs to the push pad, which causes this switch to start an irreversible alarm cycle. Key switch in device is capable of arming, disarming, or resetting the device; and indicator lamp determines status of the device.
            b) Provide devices capable of standard 15 second release delay and indefinite release delay as required by code, when tied into fire alarm system will release immediately when an alarm condition exists.
            c) Provide devices with all control inputs – door position input, external inhibit input, fire alarm input; auxiliary locking; nuisance alarm and internal horn; and, remote signaling output self-contained in the device assembly.
    g. CVC
        1) Provide cable-actuated concealed vertical latch system in two-point for non-rated or fire rated wood doors up to a 90 minute rating and less bottom latch (LBL) configuration for non-rated or fire rated wood doors up to 20 minute rating. Vertical rods are not permitted.
            a) Cable: Stainless steel with abrasive resistant coating. Conduit and core wire ends snap into latch and center slides without use of tools.
            b) Wood Door Prep: Maximum 1 inch x 1.1875 inch x 3.875 inches top latch pocket and 1 inch x 1.1875 inch x 5 inches bottom latch pocket which does not require the use of a metal wrap or edge for non-rated or fire rated wood doors up to a 45 minute rating.
            c) Latchbolts and Blocking Cams: Manufactured from sintered metal low carbon copper- infiltrated steel, with molybdenum disulfide low friction coating.

d) Top Latchbolt: Minimum 0.38 inch (10 mm) and greater than 90-degree engagement with strike to prevent door and frame separation under high static load.
e) Bottom Latchbolt: Minimum of 0.44-inch (11 mm) engagement with strike.
f) Product Cycle Life: 1,000,000 cycles.
g) Latch Operation: Top and bottom latch operate independently of each other. Top latch fully engages top strike even when bottom latch is compromised. Separate trigger mechanisms not permitted.
h) Latch release does not require separate trigger mechanism.
i) Cable and latching system characteristics:
    i. Installed independently of exit device installation, and capable of functioning on door prior to device and trim installation.
    ii. Connected to exit device at single point in steel and aluminum doors, and two points for top and bottom latches in wood doors.
    iii. Bottom latch height adjusted, from single point for steel and aluminum doors and two points for wood doors, after system is installed and connected to exit device, while door is hanging
    iv. Bottom latch position altered up and down minimum of 2 inches (51 mm) in steel and aluminum doors without additional adjustment. Bottom latch deadlocks in every adjustment position in wood doors.
    v. Top and bottom latches in steel and aluminum doors and top latch in wood doors may be removed while door is hanging.

2.09 ELECTRONIC ACCESS CONTROL WIRELESS CYLINDRICAL LOCK

A. Manufacturers:

1. Scheduled Manufacturer and Product:
    a. Schlage NDEB series

2. Acceptable Manufacturers and Products:
    a. No substitute

B. Requirements:

1. ANSI/BHMA A156.2 Series 4000, Grade 1.
2. Florida Building Code (ASTM E330, E1886, E1996) and Miami Dade (TAS 201, 202, 203) requirements for hurricanes.
3. Certified to UL10C 3-hour rating, ULC-S319, FCC Part15, ADA RoHS, ICC ANSI A117.1
4. Listed, UL 294 - The Standard of Safety for Access Control System Units.
5. Compliant with ANSI/BHMA A156.25 Operation and Security interior operating range of 32 degrees F (0 degrees C) to 120 degrees F(49 degrees C) for interior use only.
6. Compliant with ASTM E330 for door assemblies.
7. Compliant with ICC / ANSI A117.1, NFPA 101, NFPA 80 and IBC Chapter 10 Cylinders: Refer to "KEYING" article, herein.
8. Provide cylindrical locksets exceeding the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security, and durability in the categories below:
    a. Abusive Locked Lever Torque Test – minimum 3,100 inch-pounds without gaining access
    b. Offset lever pull – minimum 1,600-foot pounds without gaining access
    c. Vertical lever impact – minimum 100 impacts without gaining access
    d. Cycle Test - tested to minimum 16 million cycles with no visible lever sag or use of performance aids such as set screws or spacers.

9. Emergency Override: Provide mechanical key override; cylinders: Refer to "KEYING" article, herein.
10. Levers:
    a. Vandal Resistance: Exterior (secure side) lever rotates freely while door remains locked, preventing damage to internal locking components from vandalism by excessive force.
    b. Provide lever trim that operates independently of each other and is field reversible without tools.
    c. Style: Match existing lever style

11. Power Supply: 4 AA batteries
    a. Provide battery powered wireless electronic products with the ability to communicate battery status and battery voltage level by means of a mobile app at door and remotely by Partner integrated software.

12. Features:
    a. Ability to communicate unit's communication status.
    b. Visual LED indicators that indicate activation, operational systems status, system error conditions and low power conditions.
    c. Audible feedback that can be enabled or disabled.
    d. Suitable for both interior and exterior deployment.
    e. Employ Wi-Fi communications to permit remote view of audits and alerts, as well as provide automatic daily updates to lock configuration and user access rights.

13. Adaptability:
    a. Open Architecture: Provide locksets manufactured with open architecture characteristics capable of handling new and existing access control software and credential reading technology. Can be supported by cloud-based web and mobile apps without the need for an integrated software partner.

14. Switches:
    a. Door Position Sensor – magnet integrated into strike to eliminate additional door prep
    b. Interior Cover Tamper Guard
    c. Battery Status
    d. Request to Exit
    e. Interior Push Button

15. Credentials: Provide integral credential reader modules in the following configurations:
    a. NFC, including peer-peer compatible, operable with both Android and IOS mobile devices
    b. 125 kHz contactless smart cards
        1) Compatibility: Schlage, XceedID, ISONAS, HID, GE/CASI, AWID
    c. 13.56 MHz contactless smart cards
        1) Secure section (multi-technology and smart card) compatibility: Schlage MIFARE Classic, Schlage MIFARE DESFire EV1/EV3
        2) 13.56 MHz Serial number only (multi-technology and smart card) compatibility: DESFire CSN, HID iCLASS CSN, MIFARE CSN, MIFARE DESFire EV1/EV3 CSN
    d. Multi-technology contactless for applications requiring read capability for both 125 kHz proximity and 13.56 MHz contactless smart cards.
    e. BLE

16. Records: Subject to the limitations of the attached access control system, the wireless locks possess enough storage capacity to support 5000 users and 2000 audits.
17. Verification time: less than or equal to 1 second for smart cards and proximity cards

18. Coordinate with Division 01 and 281300 Access Control.

2.10 POWER SUPPLIES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Schlage/Von Duprin PS900 Series

2. Acceptable Manufacturers and Products:
   a. Precision ELR series
   b. Securitron BPS series

B. Requirements:

1. Provide power supplies approved by manufacturer of supplied electrified hardware.
2. Provide appropriate quantity of power supplies necessary for proper operation of electrified locking components as recommended by manufacturer of electrified locking components with consideration for each electrified component using power supply, location of power supply, and approved wiring diagrams. Locate power supplies as directed by Architect.
3. Provide regulated and filtered 24 VDC power supply, and UL class 2 listed.
4. Provide power supplies with the following features:
   a. 12/24 VDC Output, field selectable.
   b. Class 2 Rated power limited output.
   c. Universal 120-240 VAC input.
   d. Low voltage DC, regulated and filtered.
   e. Polarized connector for distribution boards.
   f. Fused primary input.
   g. AC input and DC output monitoring circuit w/LED indicators.
   h. Cover mounted AC Input indication.
   i. Tested and certified to meet UL294.
   j. NEMA 1 enclosure.
   k. Hinged cover w/lock down screws.
   l. High voltage protective cover.

2.11 CYLINDERS

A. Manufacturers:

1. Scheduled Manufacturer and Product:
   a. Existing BEST system

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide cylinders/cores to match Owner’s existing key system, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer’s series as indicated. Refer to “KEYING” article, herein.

2.12 KEYING

A. Scheduled System:

1. Existing factory registered system:
   a. Provide cylinders/cores keyed into Owner's existing factory registered keying system. Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.

B. Requirements:

1. Construction Keying:
   a. Replaceable Construction Cores.
      1) Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
         a) 3 construction control keys
         b) 12 construction change (day) keys.
      2) Owner or Owner's Representative will replace temporary construction cores with permanent cores.

2. Permanent Keying:
   a. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
      1) Master Keying system as directed by the Owner.
   b. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
   c. Provide keys with the following features:
      1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
      2) Patent Protection: Keys and blanks protected by one or more utility patent(s).
   d. Identification:
      1) Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
      2) Identification stamping provisions must be approved by the Architect and Owner.
      3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE"
      4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
      5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
   e. Quantity: Furnish in the following quantities.
      1) Permanent Control Keys: 3.
      2) Master Keys: 6.
      3) Change (Day) Keys: 3 per cylinder/core that is keyed differently
      4) Key Blanks: Quantity as determined in the keying meeting.

2.13 KEY CONTROL SYSTEM

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Match existing system

2. Acceptable Manufacturers:
   a. No Substitute

B. Requirements:

1. Provide key control system, including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150% of number of locks required for Project.
   a. Provide complete cross index system set up by hardware supplier, and place keys on markers and hooks in cabinet as determined by final key schedule.
   b. Provide hinged-panel type cabinet for wall mounting.

2.14 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. LCN 4040XP series

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
3. Cylinder Body: 1-1/2-inch (38 mm) diameter piston with 5/8-inch (16 mm) diameter double heat-treated pinion journal. QR code with a direct link to maintenance instructions.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards. Provide snap-on cover clip, with plastic covers, that secures cover to spring tube.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck. Provide graphically labelled instructions on the closer body adjacent to each adjustment valve. Provide positive stop on reg valve that prevents reg screw from being backed out.
7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
8. Pressure Relief Valve (PRV) Technology: Not permitted.
9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.
11. Closers shall be capable of being upgraded by adding modular mechanical or electronic components in the field.

2.15 DOOR TRIM

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Trimco

2. Acceptable Manufacturers:
   a. Ives
   b. Burns

B. Requirements:

1. Provide push plates, push bars, pull plates, pulls, and hands-free reversible door pulls with diameter and length as scheduled.

2.16 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Burns
   b. Trimco

B. Requirements:

1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Sizes plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
3. At fire rated doors, provide protection plates over 16 inches high with UL label.

2.17 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers:
   a. Glynn-Johnson

2. Acceptable Manufacturers:
   a. Rixson
   b. ABH

B. Requirements:

1. Provide overhead stop at any door where conditions do not allow for a wall stop or floor stop presents tripping hazard.

2.18 DOOR STOPS AND HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives/Trimco

2. Acceptable Manufacturers:
   a. Burns
   b. Trimco/Ives

B. Provide door stops at each door leaf:

1. Provide wall stops wherever possible. Provide concave type where lockset has a push button of thumbturn.
2. Where a wall stop cannot be used, provide universal floor stops.
3. Where wall or floor stop cannot be used, provide overhead stop.
4. Provide roller bumper where doors open into each other and overhead stop cannot be used.

2.19 SILENCERS

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Trimco

2. Acceptable Manufacturers:
   a. Ives
   b. Burns

B. Requirements:

1. Provide "push-in" type silencers for hollow metal or wood frames.
2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
3. Omit where gasketing is specified.

2.20 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Scheduled Manufacturer:

1. Zero International

B. Acceptable Manufacturers:

1. National Guard
2. Reese

C. Seals and Gasketing: Provide continuous gasketing on exterior openings, to the head and jambs, forming a continuous seal between the door and the frame. Provide smoke, light, or sound gasketing on interior doors where indicated.

1. Provide self-tapping fasteners for aluminum extruded gasketing being applied to hollow metal frames.
   a. Provide non-corrosive fasteners for all exterior applications.
   b. Provide security fasteners where indicated.

2. Provide neoprene, EPDM, silicone, or nylon brush inserts as specified in hardware sets. Provide non brush inserts of solid or sponge cell, as specified in hardware sets. Vinyl inserts are not allowed except where specified in hardware sets.

D. Smoke Labeled Gasketing: At all smoke labeled openings, provide smoke listed perimeter gasketing assemblies complying with NFPA 105 listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction for smoke control ratings indicated based on testing according to UL 1784.

E. Fire Listed Gasketing: Assemblies complying with NFPA 80 that are listed by a testing and inspecting agency acceptable to authorities having jurisdiction for fire ratings indicated based on testing according to UL-10C.

1. Where frame-applied intumescent seals are required by the manufacturer, provide gaskets that comply with UL10C Standard for Positive Pressure Fire Tests of Door Assemblies and UBC 7-2, Fire Tests of Door Assemblies.

F. Sound-Rated Gasketing: Provide acoustic gasketing to meet Sound Transmission Class (STC) rating required.

G. Meeting-Stile Gasketing: Provide meeting-stile gasketing that fastens to the meeting stiles forming a continuous seal when doors are closed.

H. Door Sweeps or Shoes: Apply to the bottom of the door to close the gap between the door bottom and finished floor or saddle threshold.

1. Provide solid neoprene, EPDM, silicone, or nylon brush type of seal as specified in hardware sets. Vinyl inserts are not allowed except where specified in hardware sets.

I. Automatic Door Bottoms:

1. Provide closed cell sponge, bulb neoprene. or EPDM type of seal as specified in hardware sets.
2. Door bottom to be mortised, semi mortised, or surface mount as with a minimum thickness as specified in hardware sets.

J. Rain Drips:

1. Provide overhead rain drips for out-swinging hollow metal doors that are not covered against 45 degree blowing rain. Aluminum extrusion to be a minimum of .088 inches thick and extend 2.50 inches from the face of the frame, in anodized finish to match door.
2. Door sweeps or shoes with integral rain drip must meet ADA requirements

K. Thresholds: Provide threshold units not less than 4 inches wide, formed to accommodate change in floor elevation where indicated, and fabricated to accommodate door hardware and fit door frames.

1. Threshold extrusion to be a minimum thickness as specified in hardware sets.

2.21 DOOR POSITION SWITCHES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Schlage

2. Acceptable Manufacturers:
   a. GE-Interlogix
   b. Sargent

B. Requirements:

1. Provide recessed or surface mounted type door position switches as specified.
2. Coordinate door and frame preparations with door and frame suppliers. If switches are being used with magnetic locking device, provide minimum of 4 inches (102 mm) between switch and magnetic locking device.

2.22 FINISHES

A. FINISH: BHMA 626/652 (US26D); EXCEPT:

1. Hinges at Exterior Doors: BHMA 630 (US32D)
2. Aluminum Geared Continuous Hinges: BHMA 628 (US28)
3. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
4. Protection Plates: BHMA 630 (US32D)
5. Overhead Stops and Holders: BHMA 630 (US32D)
6. Door Closers: Powder Coat to Match
7. Wall Stops: BHMA 630 (US32D)
8. Latch Protectors: BHMA 630 (US32D)
9. Weatherstripping: Clear Anodized Aluminum
10. Thresholds: Mill Finish Aluminum

PART 3 - EXECUTION

3.01 EXAMINATION

A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. Verify doors, frames, and walls have been properly reinforced for hardware installation.

B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.

C. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.

1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
2. Custom Steel Doors and Frames: HMMA 831.
3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
4. Installation Guide for Doors and Hardware: DHI TDH-007-20

B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.

C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.

D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.

E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.

F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.

H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.

I. Lock Cylinders:

1. Install construction cores to secure building and areas during construction period.
2. Replace construction cores with permanent cores as indicated in keying section.
3. Furnish permanent cores to Owner for installation.

J. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY sections for:

1. Conduit, junction boxes and wire pulls.
2. Connections to and from power supplies to electrified hardware.
3. Connections to fire/smoke alarm system and smoke evacuation system.
4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
5. Connections to panel interface modules, controllers, and gateways.
6. Testing and labeling wires with Architect's opening number.

K. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.

L. Continuous Hinges: Re-locate the door and frame fire rating labels where they will remain visible so that the hinge does not cover the label once installed.

M. Door Closers & Auto Operators: Mount closers/operators on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers/operators so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.

N. Overhead Stops/Holders: Mount overhead stops/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.

O. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.

P. Thresholds:

1. Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
2. Aluminum thresholds to be cut-in, and scribed around mullions, frame members, and stops. Do not butt to thresholds. Provide a continuous surface across full width of opening from jamb to jamb.
3. Where aluminum panic-type (rabbeted) thresholds with neoprene inserts are specified, undercut doors as required to properly mate with seal in threshold.

Q. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.

R. Perimeter Gasketing:

1. Apply to head and jamb, forming seal between door and frame.
2. Install gasketing in a manner eliminating need to cut any seal to install surface mounted hardware. Install compatible mounting bracket for surface mounted hardware unless minimum 1/4 inch thick solid aluminum seals are provided for mounting of surface applied hardware.

S. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.

T. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

3.03 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

1. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
2. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.04 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items per manufacturer's instructions to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.05 DOOR HARDWARE SCHEDULE

A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.

B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application.

C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.

D. Hardware Sets:

154746 OPT0491917 Version 4

MERRILLVILLE HS CULINARY AND MEETING AREA

Hardware Group No. 01

T-141

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PRIVACY LOCK W/ OUTSIDE INDICATOR	L9040 L583-363 OS-OCC (VERIFY/MATCH EXIST LEVER STYLE)	626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SCL PSA	CL	ZER

Hardware Group No. 02

T-143

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC L583-363 (VERIFY/MATCH EXIST LEVER STYLE)	626	SCH
1	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCERS-MTL	1229-A		TRM

NOTE: GC TO VERIFY COMPATIBILITY OF NEW HARDWARE FOR EXISTING DOOR/ FRAME

PROVIDE RIV-NUT TYPE FASTENERS WHERE PROPER REINFORCEMENT IN THE FRAME IS NOT PRESENT. FIELD VERIFY ALL EXISTING OPENINGS TO CONFIRM FUNCTIONALITY OF NEW HARDWARE ITEMS.

Hardware Group No. 03

T-102G T-102K

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PANIC HARDWARE	LD-98-EO	626	VON
1	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCERS-MTL	1229-A		TRM

Hardware Group No. 04

T-140A T-140B T-149

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PANIC HARDWARE	LD-98-L-2SI (VERIFY/MATCH EXIST LEVER STYLE)	626	VON
1	EA	MORTISE CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
1	EA	RIM CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
2	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCERS-MTL	1229-A		TRM

Hardware Group No. 05

T-152

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC (VERIFY/MATCH EXIST LEVER STYLE)	626	SCH
1	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
1	EA	WALL BMPR CAST CONCAVE SC	1270-CV	626	TRM
1	EA	GASKETING	488SCL PSA	CL	ZER

Hardware Group No. 06

T-114

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC (VERIFY/MATCH EXIST LEVER STYLE)	626	SCH
1	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
1	EA	WALL BMPR CAST CONCAVE SC	1270-CV	626	TRM
3	EA	SILENCERS-MTL	1229-A		TRM

Hardware Group No. 07

T-104

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CONST LATCHING BOLT	FB51T/FB61T AS REQ'D	630	IVE
1	EA	STOREROOM LOCK	L9080BDC (VERIFY/MATCH EXIST LEVER STYLE)	626	SCH
1	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
2	EA	OH STOP & HOLDER	90F	630	GLY
2	EA	SILENCERS-MTL	1229-A		TRM

Hardware Group No. 08

T-107 T-111

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CONST LATCHING BOLT	FB51T/FB61T AS REQ'D	630	IVE
1	EA	STOREROOM LOCK	L9080BDC (VERIFY/MATCH EXIST LEVER STYLE)	626	SCH
1	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
2	EA	OH STOP & HOLDER	90F J	630	GLY
2	EA	SILENCERS-MTL	1229-A		TRM

Hardware Group No. 09

T-112

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	WIRELESS ELECTRONIC LOCK	NDEBBDC (VERIFY/MATCH EXIST LEVER STYLE) BATTERY OPERATED BY DIVISION 28 SUPPLIER IF SLAB IS PREPED FOR MORTISE LOCK SWAP WITH SCH LEB AS REQ	626	SCE
1	EA	SURFACE CLOSER	4040XP REG TBWMS OMIT IF EXISTING	689	LCN
1	EA	ACCESSORIES	GWE BY DIVISION 28 SUPPLIER		SCE
	EA	NOTE	BALANCE OF EXISTING HARDWARE TO REMAIN		

NOTE: PROVIDE ANY AND ALL PLATES REQUIRED TO COVER/BLANK EXISTING UNUSED DOOR AND FRAME PREPS. PROVIDE RIV-NUT TYPE FASTENERS WHERE PROPER REINFORCEMENT IN THE FRAME IS NOT PRESENT. FIELD VERIFY ALL EXISTING OPENINGS TO CONFIRM FUNCTIONALITY OF NEW HARDWARE ITEMS.

NOTE: IF CLOSER EXISTS CURRENTLY AT OPENING, OMIT FROM SET.

Hardware Group No. 10

T-132 T-134 T-135

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC (VERIFY/MATCH EXIST LEVER STYLE)	626	SCH
1	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
1	EA	WALL BMPR CAST CONCAVE SC	1270-CV	626	TRM
3	EA	SILENCERS-MTL	1229-A		TRM

Hardware Group No. 11

T-148B

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CLASSROOM LOCK	L9070BDC (VERIFY/MATCH EXIST LEVER STYLE)	626	SCH
1	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL BMPR CAST CONCAVE SC	1270-CV	626	TRM
3	EA	SILENCERS-MTL	1229-A		TRM

Hardware Group No. 12

T-140C T-147

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	DBL CYL DEAD LOCK	L462BDC	626	SCH
2	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
1	EA	EXTRA HEAVY DUTY PUSH/PULL PLATE SET	1895-4B	630	TRM
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS40	626	IVE
3	EA	SILENCERS-MTL	1229-A		TRM

Hardware Group No. 13

T-148A

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CLASSROOM LOCK	L9070BDC (VERIFY/MATCH EXIST LEVER STYLE)	626	SCH
1	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCERS-MTL	1229-A		TRM

Hardware Group No. 14

T-131

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	CONT. HINGE	224XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	CDSI-98-L-DT (VERIFY/MATCH EXIST LEVER STYLE) LHR	626	VON
1	EA	ELEC PANIC HARDWARE	SD-RX-QEL-98-L-NL (VERIFY/MATCH EXIST LEVER STYLE) RHR	626	VON
1	EA	MULLION STORAGE KIT	MT54	689	VON
3	EA	MORTISE CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
1	EA	RIM CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
2	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	GASKETING	328AA-S JAMB SEAL SET	AA	ZER
1	EA	GASKETING	429AA HEAD SEAL MOUNT PRIOR TO ANY HEAD MOUNTED HARDWARE	AA	ZER
1	SET	MEETING STILE	8193AA-S	AA	ZER
1	EA	MULLION SEAL	8780NBK	BK	ZER
2	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	566A-V3-223	A	ZER
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O
2	EA	DOOR CONTACT	679-05	WHT	SCE
1	EA	POWER SUPPLY	PS902 (CALCULATE AND PROVIDE MINIMUM POWER SUPPLIES REQUIRED FOR PROJECT)	LGR	SCE

CREDENTIAL READER DEVICE IS TO RETRACT LATCH ALLOWING MANUAL INGRESS. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:
CREDENTIAL READER DEVICE.
REQUIRED WIRING TO THE PS902 POWER SUPPLY (WHICH POWERS THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE), THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE ITS SELF.

Hardware Group No. 15

T-102H T-102J

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC (VERIFY/MATCH EXIST LEVER STYLE)	626	SCH
1	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
1	EA	OH STOP & HOLDER	90F	630	GLY
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCERS-MTL	1229-A		TRM

Hardware Group No. 16

T-101 T-144

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	CDSI-9827-L-DT-LBR (VERIFY/MATCH EXIST LEVER STYLE)	626	VON
1	EA	ELEC PANIC HARDWARE	SD-QEL-9827-L-NL-LBR (VERIFY/MATCH EXIST LEVER STYLE)	626	VON
1	EA	MULLION STORAGE KIT	MT54	689	VON
3	EA	MORTISE CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
1	EA	RIM CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL BMPR CAST CONCAVE SC	1270-CV	626	TRM
1	EA	MULLION SEAL	8780NBK	BK	ZER
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O
1	EA	POWER SUPPLY	PS902 (CALCULATE AND PROVIDE MINIMUM POWER SUPPLIES REQUIRED FOR PROJECT)	LGR	SCE

CREDENTIAL READER DEVICE IS TO RETRACT LATCH ALLOWING MANUAL INGRESS. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:
CREDENTIAL READER DEVICE.
REQUIRED WIRING TO THE PS902 POWER SUPPLY (WHICH POWERS THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE), THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE ITS SELF.

Hardware Group No. 17

T-145

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
2	EA	PANIC HARDWARE	LD-98-L-2SI (VERIFY/MATCH EXIST LEVER STYLE)	626	VON
3	EA	MORTISE CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
2	EA	RIM CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
5	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP HEDA	689	LCN
1	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS40	626	IVE
2	EA	SILENCERS-MTL	1229-A		TRM

Hardware Group No. 18

T-102A

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	CDSI-98-L-DT (VERIFY/MATCH EXIST LEVER STYLE) LHR	626	VON
1	EA	ELEC PANIC HARDWARE	SD-RX-QEL-98-L-NL (VERIFY/MATCH EXIST LEVER STYLE) RHR	626	VON
1	EA	MULLION STORAGE KIT	MT54	689	VON
3	EA	MORTISE CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
1	EA	RIM CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
1	EA	SURFACE CLOSER	4040XP EDA LHR	689	LCN
1	EA	SURFACE CLOSER	4040XP SHCUSH RHR	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS40 LHR	626	IVE
1	SET	GASKETING	328AA-S JAMB SEAL SET	AA	ZER
1	EA	GASKETING	429AA HEAD SEAL MOUNT PRIOR TO ANY HEAD MOUNTED HARDWARE	AA	ZER
1	EA	MULLION SEAL	8780NBK	BK	ZER
2	EA	DOOR BOTTOM	369AA-Z49-PULL-OUT	AA	ZER
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O
1	EA	POWER SUPPLY	PS902 (CALCULATE AND PROVIDE MINIMUM POWER SUPPLIES REQUIRED FOR PROJECT)	LGR	SCE

CREDENTIAL READER DEVICE IS TO RETRACT LATCH ALLOWING MANUAL INGRESS. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:
CREDENTIAL READER DEVICE.
REQUIRED WIRING TO THE PS902 POWER SUPPLY (WHICH POWERS THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE), THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE ITS SELF.

Hardware Group No. 19

T-103A T-105A

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC HARDWARE	SD-RX-QEL-98-L-NL (VERIFY/MATCH EXIST LEVER STYLE)	626	VON
1	EA	MORTISE CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
1	EA	RIM CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
2	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	SET	GASKETING	328AA-S JAMB SEAL SET	AA	ZER
1	EA	GASKETING	429AA HEAD SEAL MOUNT PRIOR TO ANY HEAD MOUNTED HARDWARE	AA	ZER
1	EA	DOOR BOTTOM	369AA-Z49-PULL-OUT	AA	ZER
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O
1	EA	POWER SUPPLY	PS902 (CALCULATE AND PROVIDE MINIMUM POWER SUPPLIES REQUIRED FOR PROJECT)	LGR	SCE

CREDENTIAL READER DEVICE IS TO RETRACT LATCH ALLOWING MANUAL INGRESS. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:
CREDENTIAL READER DEVICE.
REQUIRED WIRING TO THE PS902 POWER SUPPLY (WHICH POWERS THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE), THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE ITS SELF.

Hardware Group No. 20

T-106B

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC HARDWARE	SD-RX-QEL-98-L-NL (VERIFY/MATCH EXIST LEVER STYLE)	626	VON
1	EA	MORTISE CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
1	EA	RIM CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O
1	EA	POWER SUPPLY	PS902 (CALCULATE AND PROVIDE MINIMUM POWER SUPPLIES REQUIRED FOR PROJECT)	LGR	SCE

CREDENTIAL READER DEVICE IS TO RETRACT LATCH ALLOWING MANUAL INGRESS. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:
CREDENTIAL READER DEVICE.
REQUIRED WIRING TO THE PS902 POWER SUPPLY (WHICH POWERS THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE), THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE ITS SELF.

Hardware Group No. 21

T-102B	T-102C	T-102D	T-102E	T-102F	T-103B
T-103C	T-105B	T-105C			

Provide each door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR

NOTE: BORROWED LITE.

Hardware Group No. 22

T-106A

Provide each door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	CDSI-98-L-DT (VERIFY/MATCH EXIST LEVER STYLE) LHR	626	VON
1	EA	ELEC PANIC HARDWARE	SD-RX-QEL-98-L-NL (VERIFY/MATCH EXIST LEVER STYLE) RHR	626	VON
1	EA	MULLION STORAGE KIT	MT54	689	VON
3	EA	MORTISE CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
1	EA	RIM CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
2	EA	SURFACE CLOSER	4040XP HEDA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL BMPR CAST CONCAVE SC	1270-CV	626	TRM
1	SET	GASKETING	328AA-S JAMB SEAL SET	AA	ZER
1	EA	GASKETING	429AA HEAD SEAL MOUNT PRIOR TO ANY HEAD MOUNTED HARDWARE	AA	ZER
1	EA	MULLION SEAL	8780NBK	BK	ZER
2	EA	DOOR BOTTOM	369AA-Z49-PULL-OUT	AA	ZER
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O
1	EA	POWER SUPPLY	PS902 (CALCULATE AND PROVIDE MINIMUM POWER SUPPLIES REQUIRED FOR PROJECT)	LGR	SCE

CREDENTIAL READER DEVICE IS TO RETRACT LATCH ALLOWING MANUAL INGRESS. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:
CREDENTIAL READER DEVICE.
REQUIRED WIRING TO THE PS902 POWER SUPPLY (WHICH POWERS THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE), THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE ITS SELF.

154748 OPT0491918 Version 2

MERRILLVILLE CSC CENTRAL OFFICE

Hardware Group No. 101

For use on Door #(s):
A-103 A-128 A-129 A-130 A-140 A-145

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC L583-363 (VERIFY/MATCH EXIST LEVER STYLE)	626	SCH
1	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
1	EA	WALL STOP	WS401/402CVX	626	IVE
3	EA	SILENCERS-MTL	1229-A		TRM

Hardware Group No. 102

For use on Door #(s):
A-132

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PASSAGE SET	L9010 (VERIFY/MATCH EXIST LEVER STYLE)	626	SCH
1	EA	WALL STOP	WS401/402CVX	626	IVE
3	EA	SILENCERS-MTL	1229-A		TRM

Hardware Group No. 103

For use on Door #(s):
A-142 A-143

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC (VERIFY/MATCH EXIST LEVER STYLE)	626	SCH
1	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
1	EA	WALL STOP	WS401/402CVX	626	IVE

Hardware Group No. 104

For use on Door #(s):
A-102A A-102C A-117

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC (VERIFY/MATCH EXIST LEVER STYLE)	626	SCH
1	EA	PERMANENT CORE	MATCH EXISTING KEY SYSTEM	626	BES
1	EA	ELECTRIC STRIKE	6211WF FSE 12/16/24/28 VAC/VDC	630	VON
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCERS-MTL	1229-A		TRM
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O

Hardware Group No. 105

For use on Door #(s):
A-102B A-102D

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	PANIC HARDWARE	CDSI-9850WDC-L-DT (VERIFY/MATCH EXIST LEVER STYLE)	626	VON
1	EA	ELEC PANIC HARDWARE	SD-RX-QEL-9850WDC-L-NL (VERIFY/MATCH EXIST LEVER STYLE)	626	VON
3	EA	MORTISE CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
1	EA	RIM CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
2	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	FIRE/LIFE WALL MAG	SEM7800 SERIES AS REQ	689	LCN
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O
1	EA	DOOR BUZZER	BY DIVISION 28		
1	EA	POWER SUPPLY	PS902 (CALCULATE AND PROVIDE MINIMUM POWER SUPPLIES REQUIRED FOR PROJECT)	LGR	SCE

CREDENTIAL READER DEVICE IS TO RETRACT LATCH ALLOWING MANUAL INGRESS. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:
DOOR BUZZER DEVICE
CREDENTIAL READER DEVICE.
REQUIRED WIRING TO THE PS902 POWER SUPPLY (WHICH POWERS THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE), THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE ITS SELF.

Hardware Group No. 106

For use on Door #(s):
A-144

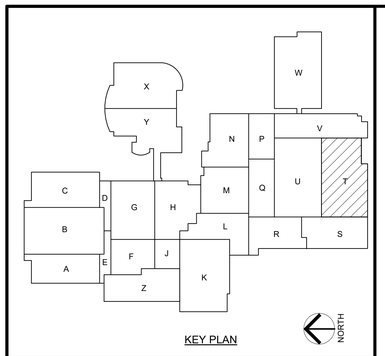
Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112XY EPT	710	IVE
1	EA	POWER TRANSFER	EPT10 CON	695	VON
1	EA	ELEC PANIC HARDWARE	SD-RX-QEL-98-NL-OP-110MD-CON 24 VDC	626	VON
1	EA	MORTISE CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
1	EA	RIM CYLINDER	MATCH EXISTING KEY SYTEM	626	BES
1	EA	90 DEG OFFSET PULL	8190EZHD 12" O	626	IVE
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	MOUNTING PLATE	4040XP-18 UNIV	689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 SRT	689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 SRT	689	LCN
1	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	655A-V3-223	A	ZER
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O
1	EA	POWER SUPPLY	PS902 (CALCULATE AND PROVIDE MINIMUM POWER SUPPLIES REQUIRED FOR PROJECT)	LGR	SCE
1			WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		

CREDENTIAL READER DEVICE IS TO RETRACT LATCH ALLOWING MANUAL INGRESS. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:
CREDENTIAL READER DEVICE.
REQUIRED WIRING TO THE PS902 POWER SUPPLY (WHICH POWERS THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE), THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE ITS SELF.

END OF SECTION



1 AD121 **UNIT "T" ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN**
1/8" = 1'-0"

NORTH

GENERAL DEMOLITION NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO G SERIES SHEETS.

B. UNLESS NOTED OTHERWISE ON THIS SHEET, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL WORK INDICATED ON THIS SHEET.

C. CONTRACTORS ENCOUNTERING EXISTING MATERIAL WHICH IS SUSPECTED OF CONTAINING ASBESTOS SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND THE OWNERS REPRESENTATIVE.

D. BOLD DASHED LINES INDICATE EXISTING ITEMS TO BE REMOVED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXTENT OF DEMOLITION WORK PRIOR TO BIDDING AND FOR COORDINATING THE EXTENT OF DEMOLITION WITH THE INSTALLATION OF NEW SYSTEMS.

E. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION APPLICABLE TO THEIR SCOPE OF WORK AND AS REQUIRED FOR INSTALLATION OF NEW WORK WHETHER OR NOT IT IS SPECIFICALLY INDICATED OR NOTED IN THESE DOCUMENTS.

F. VERIFY ITEMS DEEMED OBSOLETE WITH ARCHITECT PRIOR TO REMOVAL. REFER TO NEW CONSTRUCTION DRAWINGS FOR DEMOLITION REQUIRED NOT SHOWN ON DEMOLITION PLANS.

G. PRIOR TO STARTING DEMOLITION, CONSTRUCT DUST CONTROL BARRIERS TO PREVENT THE SPREAD OF DUST INTO SURROUNDING AREAS. (WHERE APPLICABLE)

H. WHERE BUILDING EGRESS IS REQUIRED TO PASS THROUGH DEMOLITION AREAS, PROVIDE APPROVED BARRIERS, ETC. TO ENSURE SAFETY OF THE PUBLIC.

I. RELOCATED ITEMS SHALL BE CLEANED AND PLACED IN STORAGE, PER OWNERS' DIRECTION, UNTIL ITEMS ARE READY TO BE INSTALLED. IF ITEMS ARE DAMAGED DURING DEMOLITION OR RELOCATION, THEY SHALL BE REPAIRED OR REPLACED WITH NEW ITEMS AS APPROVED.

J. DEMOLITION SHALL BE PERFORMED WITHOUT DAMAGE TO EXISTING CONSTRUCTION TO REMAIN. WHERE SUCH DAMAGE OCCURS, PATCH, REPAIR, OR RESTORE WALLS, FLOORS, CEILING, ETC. NEATLY TO MATCH EXISTING ADJACENT SURFACE. PROVIDE SHORING, BRACING, OR SUPPORT TO PREVENT MOVEMENT OR SETTLEMENT OF EXISTING STRUCTURES.

K. EACH CONTRACTOR IS RESPONSIBLE FOR CUTTING, PATCHING, AND DISCONNECTION OF ITEMS APPLICABLE TO THEIR SCOPE OF WORK. WHERE EXISTING SERVICES ARE ABANDONED, CAP AT LEAST 1" BEHIND NEW FINISHES AND/OR EXISTING SURFACE AND PATCH TO RECEIVE NEW FINISHES OR MATCH EXISTING FINISH.

L. ON WALLS THAT ARE TO RECEIVE NEW FINISHES, REMOVE AND REINSTALL EXISTING EQUIPMENT TO REMAIN FOR INSTALLATION OF NEW FINISHES.

M. WHERE WALLS OR BULKHEADS ARE REMOVED, PATCH FLOORS, CEILINGS, AND ADJACENT WALLS AS REQUIRED TO MATCH EXISTING OR RECEIVE NEW FINISHES WHERE APPLICABLE. WHERE EXISTING DUCTWORK, PIPING, OR EQUIPMENT IS REMOVED, PATCH OPENINGS AND/OR SURFACES TO MATCH ADJACENT SURFACES OR RECEIVE NEW FINISHES WHERE APPLICABLE. REFER TO ALL DEMOLITION DRAWINGS FOR EXTENT OF ITEMS TO REMOVED.

N. OVER CUT NEW OPENINGS IN EXISTING WALL AS REQUIRED FOR NEW CONSTRUCTION. PATCH AND REPAIR WALLS TO MATCH EXISTING. WHERE APPLICABLE, TOOTH NEW MASONRY INTO EXISTING MASONRY.

O. ALL EQUIPMENT AND FURNITURE WHICH ARE CONSIDERED LOOSE FURNISHING SHALL BE REMOVED BY THE OWNER PRIOR TO DEMOLITION.

P. MASONRY WALLS TO BE REMOVED SHALL BE REMOVED TO A POINT 2" MINIMUM BELOW THE EXISTING FLOOR SLAB UNLESS SETTING ON A SLAB OR SPECIFICALLY NOTED OTHERWISE. PATCH WITH NEW CONCRETE TO BE FLUSH WITH THE EXISTING FLOOR SLAB.

Q. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL REVIEW OF DEMOLITION NOTES AND GENERAL DEMOLITION NOTES AS THEY APPLY TO THEIR SCOPE OF WORK.

R. THE OWNER SHALL RESERVE THE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE.

S. REFER TO THE STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND TECHNOLOGY DOCUMENTS FOR COMPLETE SCOPE OF DEMOLITION WORK.

T. "FLOORING" DENOTES FLOOR COVERING MATERIALS INCLUDING BACKING, ADHESIVES, AND BASES DOWN TO BUT EXCLUSIVE OF FLOOR SLABS AND STRUCTURAL MATERIALS UNLESS NOTED OTHERWISE.

U. DEMOLITION IS TO FOLLOW ESTABLISHED CONSTRUCTION SEQUENCE. REFER TO SPECIFICATIONS AND DRAWINGS FOR REQUIREMENTS AND SPECIAL CONDITIONS.

V. WHERE APPLICABLE SALVAGE EXISTING MASONRY (FACE BRICK, GLAZED CMU, FACING TILE) FOR PATCHING AND INFILL IN RENOVATED AREAS WHERE INDICATED. DISCARD UNUSED PORTION OFF SITE.

W. MARKER BOARDS AND TACK BOARDS TO REMAIN, UNLESS NOTED OTHERWISE.

X. OWNER TO REMOVE CEILING MOUNTED PROJECTORS AND WALL MOUNTED CLOCKS.

Y. PROTECT EXISTING CASEWORK TO REMAIN.

Z. EXISTING CEILING TO REMAIN UNLESS NOTED OTHERWISE.

DEMOLITION PLAN NOTES:

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

1 REMOVE EXISTING WALL COVERING IN ITS ENTIRETY. PATCH AND REPAIR WALLS AND SKIMCOAT ENTIRE PLASTER/GYPSUM WALL.
2 REMOVE EXISTING CARPET AND WALL BASE IN ITS ENTIRETY. PATCH AND REPAIR FLOOR AND WALLS TO RECEIVE NEW FINISHES. REFER TO A-800 SERIES DRAWINGS.
3 REMOVE EXISTING VINYL TILE AND WALL BASE IN ITS ENTIRETY. PATCH AND REPAIR FLOOR AND WALLS TO RECEIVE NEW FINISHES. REFER TO A-800 SERIES DRAWINGS.
4 PATCH, REPAIR, AND REPLACE MISSING WALL TILE (5% OF PIER TYP). MATCH TILE SIZE. PREPARE FOR PAINT. (TYP)
5 REMOVE EXISTING LOCKERS. REMOVE EXISTING LOCKER BASE. STORE LOCKERS FOR FUTURE USE.
6 REMOVE EXISTING FLOOR TILE (OR QUARRY TILE), TILE WALL BASE, AND SETTING BED IN ITS ENTIRETY. REFER TO STRUCTURAL DRAWINGS FOR MATERIAL INFILL TO NEW SUBFLOOR ELEVATION FOR NEW FLOOR FINISH. REFER TO A-800 SHEETS FOR FINISH.
7 REMOVE EXISTING RAILING.
8 REMOVE EXISTING CASEWORK/SHELVING IN ITS ENTIRETY. PATCH AND REPAIR ADJACENT WALLS AND FLOOR TO RECEIVE NEW FINISHES.
9 REMOVE PLUMBING FIXTURE IN ITS ENTIRETY. CUT AND CAP LINE BELOW WALL OR FLOOR SURFACE UNLESS OTHERWISE NOTED ON PLUMBING DRAWINGS. PATCH AND REPAIR FLOOR AND/OR WALL TO RECEIVE NEW FINISHES.
10 EXISTING COMMEMORATIVE BENCH TO REMAIN. PROTECT DURING CONSTRUCTION.
11 REMOVE EXISTING MASONRY WALL IN ITS ENTIRETY TO EXISTING CONCRETE SLAB BELOW OR FOR WALLS ON FOUNDATIONS, TO 4" BELOW FINISHED FLOOR. PATCH AND REPAIR ADJACENT WALLS AND FLOOR TO RECEIVE NEW FINISHES.
12 EXISTING TROPHY CASE TO REMAIN. PROTECT DURING CONSTRUCTION
13 EXISTING COUNTER TO REMAIN. PROTECT DURING CONSTRUCTION
14 REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY. PATCH ADJACENT WALLS AND FLOOR TO RECEIVE NEW CONSTRUCTION AND FINISHES.
15 REMOVE EXISTING FINISHES FROM BOTH SIDES OF METAL FRAME AND PREPARE TO RECEIVE NEW FINISHES. REFER TO A-800 SERIES SHEETS.
16 REMOVE TILE COVERED GYPSUM BOARD AND STUD FRAMING FROM COLUMN. STRUCTURAL COLUMN TO REMAIN.
17 APPROXIMATE LOCATION OF SLAB AND SUBGRADE REMOVAL FOR NEW CONCRETE FOOTINGS.
18 REMOVE EXISTING LAY-IN CEILING IN THIS AREA FOR NEW CONSTRUCTION. SUPPORT EXISTING FIXTURES AND DEVICES TO REMAIN. SALVAGE CEILING PADS.
19 REMOVE EXTERIOR WALL CONSTRUCTION. SALVAGE BRICK. PREPARE FOR NEW LINTEL AND ALUMINUM WINDOW SYSTEM.
20 REMOVE EXISTING WINDOW IN ITS ENTIRETY. PREP WALLS FOR NEW INFILL.
21 REMOVE FAUX SKYLIGHT CEILING FEATURE IN ITS ENTIRETY. GYPSUM SOFFIT TO REMAIN.
22 REMOVE BULKHEAD INCLUDING GYPSUM, LIGHTING, AND BULKHEAD STRUCTURE. PATCH END OF EXISTING SOFFIT TO REMAIN.
23 REMOVE EXISTING CHAIN LINK FENCE AND GATE.
24 REMOVE CURB AND SLAB TO 2" BELOW EXISTING FINISHED FLOOR LEVEL.
25 CAREFULLY REMOVE TOP OF MASONRY WALL TO A LEVEL OF 48" AFF. PREP FOR NEW TOP FINISH.
26 REMOVE VENTILATOR UNIT. REFER TO MECHANICAL DRAWINGS.
27 CAREFULLY REMOVE EXISTING CONCRETE STAIR AND RAILING TO 12" BELOW EXISTING CONCRETE SLAB. BACKFILL AND INSTALL 6" CONCRETE. DOWEL INTO ADJACENT CONCRETE.
28 REMOVE EXISTING BUMPER PADS FROM THIS FACE. PATCH CONCRETE FACE.
29 REFER TO "FS" SHEETS FOR EQUIPMENT DEMOLITION AND OR RELOCATION OF EXISTING FOOD SERVICE EQUIPMENT.
30 VENDING MACHINE TO BE REMOVED BY VENDOR TO A LOCATION PRESCRIBED BY THE OWNER.
31 REMOVE EXISTING LOCKERS WITH METAL LEG BASE. RETURN TO OWNER
32 REMOVE PORTION OF WALL TILE AND TILE BACKING FOR BLOCKING TO FOLDABLE PARTITION. REFER TO SHEET A-130.
33 REMOVED EXISTING QUARRY TILE BASE FROM CMU WALL.
34 REMOVE APPLIED WALL GRAPHIC. PREPARE WALL FOR NEW PAINT FINISH.
35 REMOVE THRESHOLD IN ITS ENTIRETY. (TYP.)
36 REMOVE WOOD STOOL TOP IN ITS ENTIRETY. PREP FOR NEW FINISH.
37 REMOVE LOUVER IN ITS ENTIRETY. REFER TO MECHANICAL DRAWINGS.
38 REMOVE REFRIGERATOR AND RETURN TO OWNER.
39 REMOVE ACOUSTIC CEILING TILE GRID AND PADS AS REQUIRED FOR NEW MECHANICAL WORK. TEMPORARILY HANG EXISTING DEVICES. REINSTALL AFTER NEW MECHACNICAL WORK IS COMPLETED.
40 REMOVE EXISTING QUARRY TILE PREPARE FOR NEW QUARRY TILE.
41 REMOVE EXISTING LINEAR DRAIN AND PORTION OF THE 8" STORM DRAIN. PREPARE REMAINDER OF PIPE FOR NEW LINEAR DRAIN.
42 EXISTING 8" STORM DRAIN TO REMAIN.
43 CLEAN EXISTING QUARRY TILE PER SPECIFICATION IN PREPARATION FOR INSTALLATION OF CARPET.
44 REPAIR QUARRY TILE BASE AT DOOR OPENING WITH NEW, SIMILAR SIZE AND TEXTURE PIECES.
45 REMOVE EXISTING DOOR FRAME TO REMAIN.
X EXISTING TO REMAIN. PATCH IF DAMAGED OR IF ADJACENT CONSTRUCTION IS REMOVED.

AD-01

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PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
EJM
DRAWN BY
CJA, EJM
CHECKED BY
JPB

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

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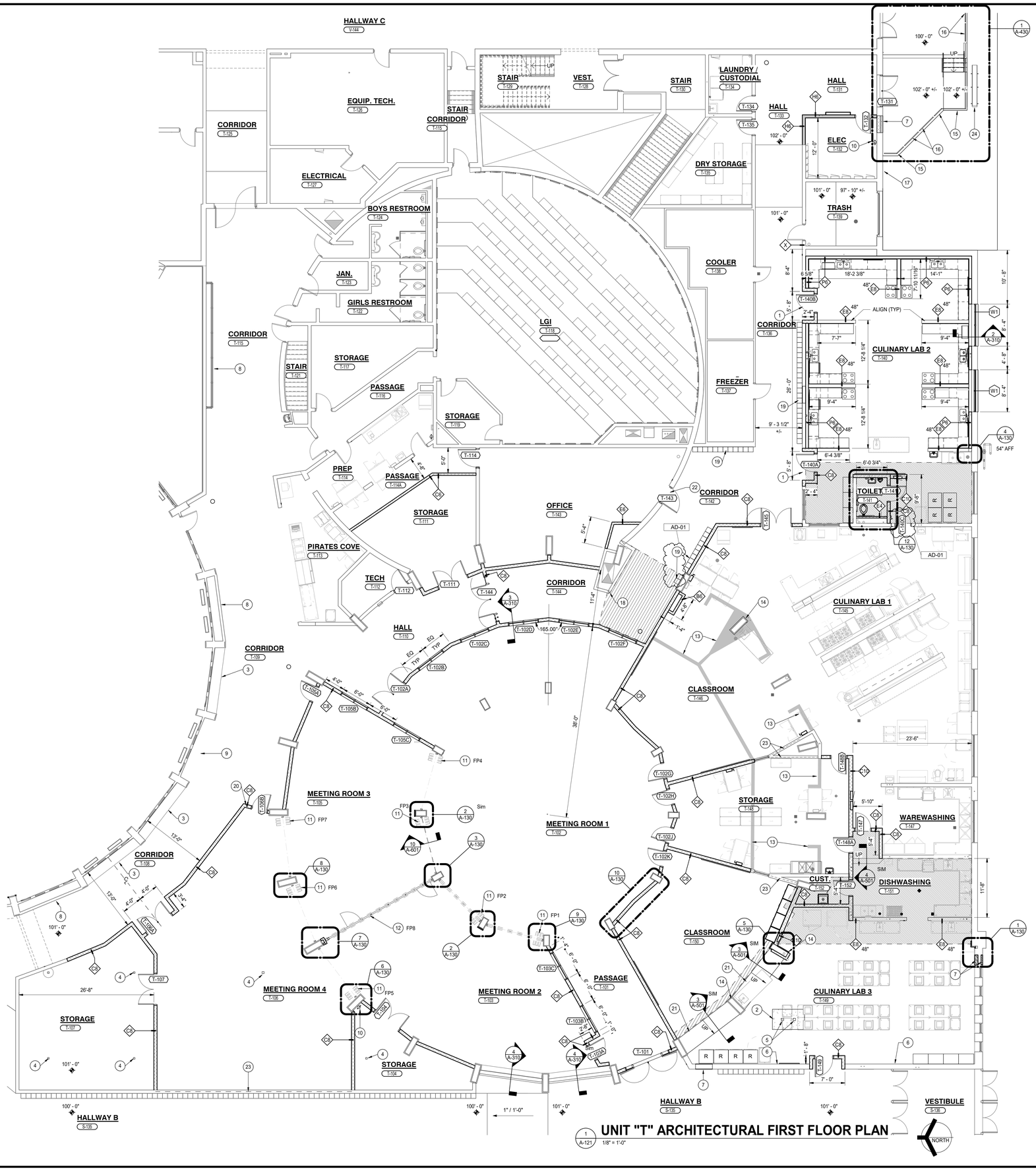
DRAWING
UNIT "T" ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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1 A-121 **UNIT "T" ARCHITECTURAL FIRST FLOOR PLAN**

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". 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. VERIFY MOUNTING HEIGHTS OF ACCESSORIES, EQUIPMENT, CASEWORK, ETC. AND PROVIDE FIRE TREATED WOOD BLOCKING (OR METAL STRAPPING WHERE INDICATED) WITHIN METAL STUD WALLS FOR ALL 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 DEMOLITION SHEETS FOR ADDITIONAL PATCHING AND REPAIR WORK.

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

M. PROVIDE SEALANT BETWEEN DISSIMILAR MATERIALS SUCH AS GYPSUM BOARD, MASONRY AND CONCRETE, COUNTERTOPS AND WALLS, ETC.

N. REFER TO FINISH PLANS FOR INTERIOR ELEVATIONS, LOCATION, AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.

O. REFER TO EQUIPMENT PLANS FOR CASEWORK, DISPLAY BOARDS, LOCKERS, AND OTHER ADDITIONAL TYPICAL EQUIPMENT NOTES AND INFORMATION.

P. REFER TO A-130 FOR REFERENCE TO ENLARGED TOILET ROOM PLANS AND TOILET ACCESSORIES.

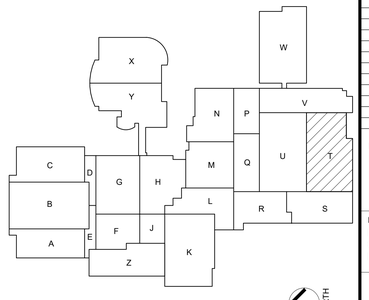
PLAN LEGEND:

- INDICATES AREAS OF CEMENTITIOUS FILL TO ELEV 101'-0".
- INDICATES NEW QUARRY TILE OVER CEMENTITIOUS BED. MATCH ADJACENT ELEVATION.
- X# WALL TYPE. REFER TO SHEET G-301. TYPE "X" IS EXISTING.
- W# WINDOW TYPE. REFER TO SHEET A-610.

ARCHITECTURAL PLAN NOTES:

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

1 INSTALL NEW LINTEL. B/LINTEL AT 9'-4" AFF.
2 NEW CONCRETE SLAB. REFER TO STRUCTURAL DRAWINGS.
3 EXISTING LAMINATE COUNTERTOP TO REMAIN. PROTECT DURING CONSTRUCTION.
4 PATCH AND PAINT EXISTING COLUMN. REFER TO A800 SERIES SHEETS.
5 NEW STRUCTURAL COLUMN. PAINT.
6 REPAIR EXISTING GYPSUM BOARD WALL AS REQUIRED FOR NEW FINISHES
7 EXISTING WALL INFILL TO MATCH EXISTING WALL MAKEUP. GYP BOARD, INSULATION, METAL STUD, CMU, FACE BRICK. MATCH EXISTING COURSINGS AND TOOTH-IN INFILL.
8 EXISTING DISPLAY CASE TO REMAIN. PROTECT DURING CONSTRUCTION.
9 EXISTING STONE BENCH TO REMAIN. PROTECT DURING CONSTRUCTION.
10 WALL HUNG FIRE EXTINGUISHER.
11 GLASS FOLDING PARTITION STC 45+
12 SOLID FOLDING PARTITION STC 50+ WITH 2 SINGLE DOORS TO EXIT EITHER DIRECTION.
13 PATCH QUARRY TILE FLOOR AS REQUIRED WHERE MASONRY WALLS WERE DEMOLISHED.
14 APPLY 2x2 / 4x4 CERAMIC WALL TILE (MATCH FINISH OF ADJACENT COLUMNS) ON GLASS MAT GYPSUM BOARD ON FURRING STRIPS AROUND CONCRETE COLUMN. PAINT TILE.
15 NEW ALUMINUM GUARD RAILING
16 NEW REMOVABLE RAILING SECTION
17 CLEAN BRICK WHERE CONCRETE STAIR WAS REMOVED. REPLACE CMU AT VENEER OR DAMAGED BRICK WITH SALVAGED BRICK FROM NEW WINDOW INSTALLATION.
18 PATCH MASONRY CORNER FOR NEW CORNER GUARD INSTALLATION
19 METAL LOCKERS.
20 MIDDLE OF WALL TO ALIGN WITH EXISTING TRANSITION BETWEEN T2 AND QT.
21 SLOPED FLOOR TRANSITION.
22 INSTALL NEW 8" WIDE METAL THRESHOLD.
23 ABOVE THE EXISTING 8" CMU WALL, FROM THE TOP OF WALL TO THE METAL ROOF DECK (APPROXIMATELY 5FT), INSTALL A 6" METAL STUD WALL WITH BATT INSULATION AND 5/8" GYPSUM BOARD ON EACH SIDE BETWEEN THE TOP OF THE WALL. INSTALL ACOUSTIC SEALANT AT ALL PENETRATIONS AND AT THE TOP OF THE WALL.
24 NEW LINEAR TRENCH DRAIN. CONNECT TO EXISTING 8" STORM LINE.



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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
EJM
DRAWN BY
CJA, EJM
CHECKED BY
JPB

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

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DRAWING
UNIT "T" ARCHITECTURAL FIRST FLOOR PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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A-121

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GENERAL ELEVATION NOTES:

A. REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION WALLS AND FOOTINGS.

B. REFER TO FLOOR PLANS FOR EXTERIOR WALL SECTIONS CUTS, UNLESS INDICATED OTHERWISE.

C. FOR LOCATION AND MOUNTING HEIGHTS OF CAMERAS, SPEAKERS, LIGHTS, HORNS, ETC. REFER TO ELECTRICAL AND TECHNOLOGY DRAWINGS.

D. ALL NEW FACE BRICK SHALL BE MODULAR RUNNING BOND UNLESS NOTED OTHERWISE.

E. FINISH GRADE INDICATES ON ELEVATIONS ARE FOR DRAWING PURPOSES ONLY. REFER TO CIVIL DRAWINGS FOR ACTUAL GRADES. COORDINATE STEPPED FLASHING WITH ACTUAL GRADES FOR CELL VENTS TO BE ABOVE GRADE.

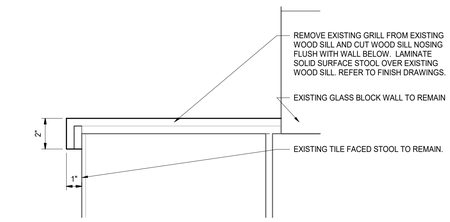
F. STEP BRICK LEDGE DOWN FOR LEDGE TO BE BELOW GRADE OR CONCRETE WALK. COORDINATE WITH CIVIL DRAWINGS.

G. (CJ) INDICATES CONTROL JOINT. REFER TO DETAIL 1 AND 2/A-410

H. (EJ) INDICATED BUILDING EXPANSION JOINT. REFER TO DETAIL X/A-XXX

I. ALL VERTICAL CONTROL JOINTS IN EXISTING EXTERIOR BRICK WALL TO REMAIN ARE TO BE REMOVED AND PLACED WITH NEW SEALANT AND BACKER ROD.

J. AT ALL EXISTING WINDOWS TO REMAIN, REMOVE PERIMETER SEALANT AND BACKER ROD AND INSTALL NEW SEALANT AND BACKER ROD.

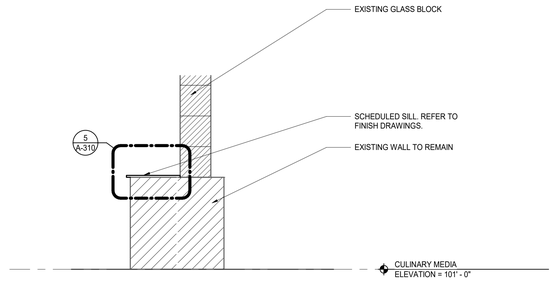


5 A-310 **ENLARGED DETAIL**
3" = 1'-0"

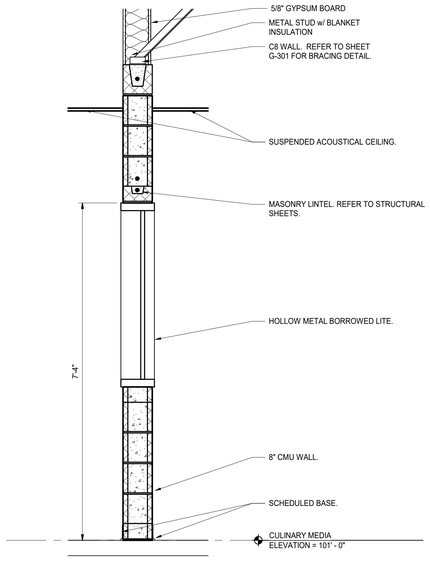
ELEVATION NOTES:

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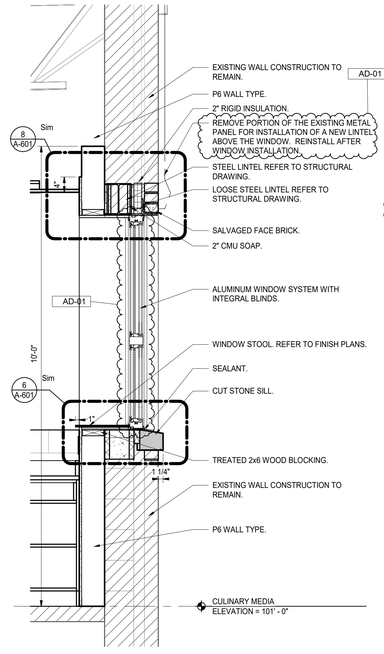
1 SCHEDULED DOOR. REFER TO DOOR SCHEDULE.
2 CONCRETE WALL.
3 ALUMINUM GUARDRAIL. REFER TO A-430.
4 CUT STONE SILL.
5 ALUMINUM WINDOW SYSTEM.
6 APPROXIMATE FINISH GRADE.
7 EXISTING WINDOW SYSTEM.
8 EXISTING METAL PANEL.
9 EXISTING OVERHEAD DOOR.
10 EXISTING METAL COPING.
11 EXISTING WALL CONSTRUCTION.
12 EXISTING EXTERIOR DOOR.
13 EXISTING CONCRETE WALL.
14 SALVAGED FACE BRICK. TOOTH IN.
15 WHERE EXISTING CONCRETE STAIR WAS REMOVED, REMOVE ANY CMU OR DAMAGED BRICK IN TH THE NOW EXPOSED VENEER WITH SALVAGED BRICK.
16 EXISTING RAILING TO REMAIN.
17 EXISTING OPENING INFILL WITH MASONRY AND BRICK VENEER. TOOTH SALVAGED BRICK INTO PERIMETER OF OPENING.
18 REMOVE PORTION OF THE EXISTING METAL PANEL FOR INSTALLATION OF A NEW LINTEL ABOVE THE WINDOW. REINSTALL AFTER WINDOW INSTALLATION.



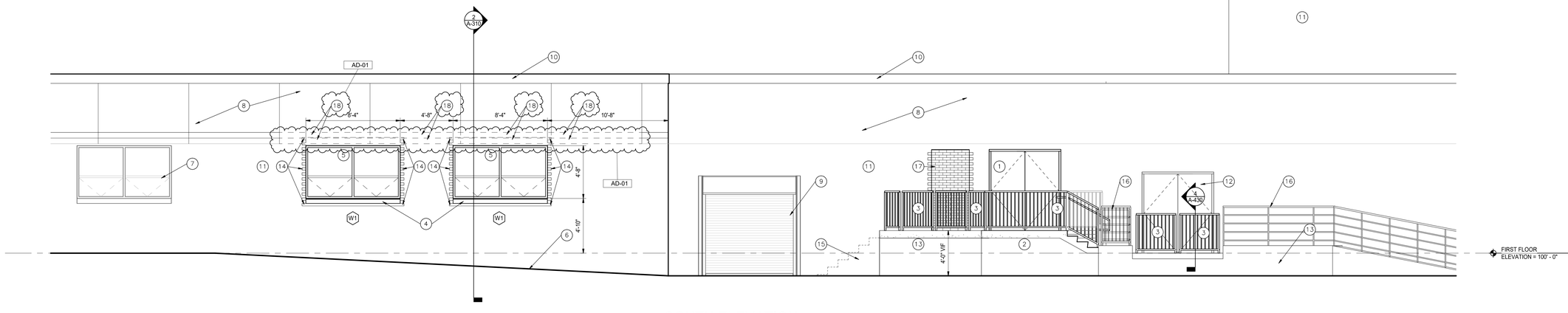
4 A-310 **WALL SECTION**
3/4" = 1'-0"



3 A-310 **WALL SECTION**
3/4" = 1'-0"



2 A-310 **WALL SECTION**
3/4" = 1'-0"



1 A-310 **SOUTH ELEVATION**
1/4" = 1'-0"

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MERRILLVILLE, IN, 46410

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25-181
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CHECKED BY
JPB

JOSEPH P. BRIGGS REGISTERED NO 11600109 STATE OF INDIANA ARCHITECT

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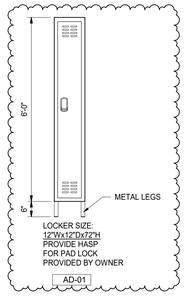
DRAWING
EXTERIOR ELEVATIONS AND WALL SECTIONS

PROJECT
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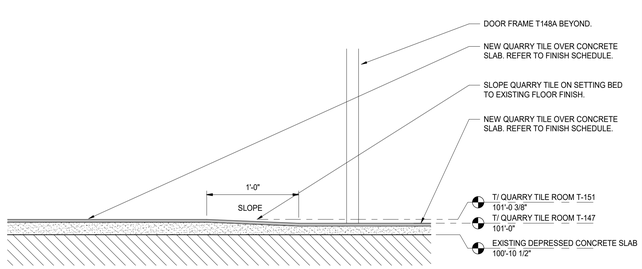
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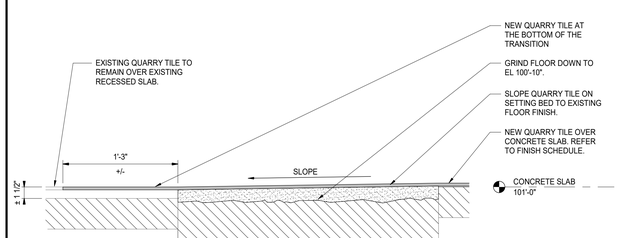


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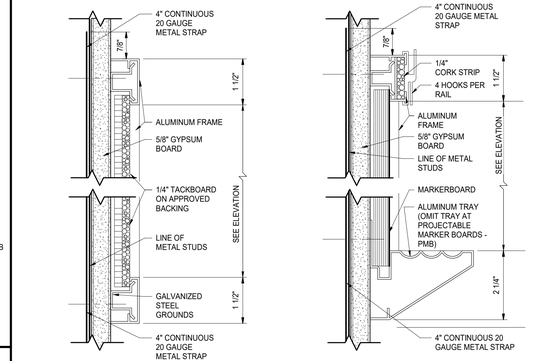
5 A-501 **TYPICAL LOCKER ELEVATIONS**
1/2" = 1'-0"



4 A-501 **T-151 NEW QUARRY TILE**
1 1/2" = 1'-0"

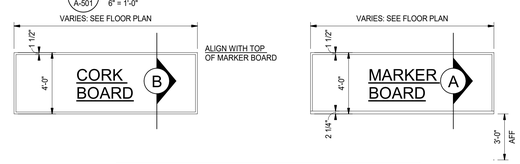


3 A-501 **NEW QUARRY TILE TO EXISTING**
1 1/2" = 1'-0"



CORKBOARD "B" MARKERBOARD "A"

2 A-501 **MARKER/CORKBOARD SECTIONS**
6" = 1'-0"



NOTES:
1. SEE EQUIPMENT PLANS FOR LOCATIONS.
2. SEE FINISH PLANS FOR WALL FINISHES.
3. MOUNTING HEIGHT AS DIRECTED BY OWNER AND ARCHITECT.

1 A-501 **MARKER/CORKBOARD ELEVATIONS**
1/4" = 1'-0"

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

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01

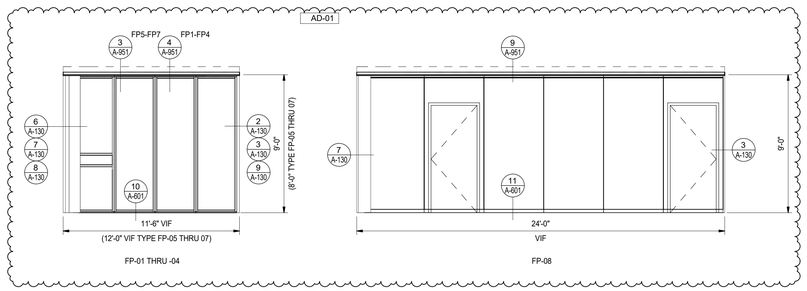
DRAWING
TYPICAL DETAILS

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

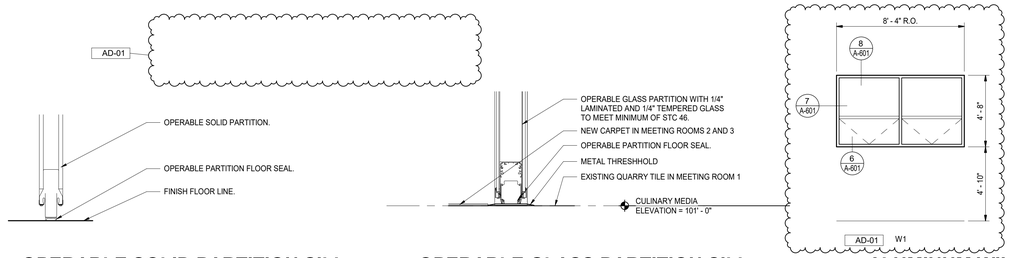
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A-501

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C:\Users\calanis\Documents\25-181 Merrillville HS - ARCH R25_CAlanis7.JFHA.rvt



12 A-130 FOLDING PARTITION LEGEND
1/4" = 1'-0"



11 A-601 OPERABLE SOLID PARTITION SILL
1 1/2" = 1'-0"

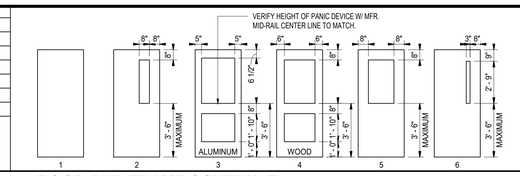
10 A-601 OPERABLE GLASS PARTITION SILL
1 1/2" = 1'-0"

9 A-130 ALUMINUM WINDOW LEGEND
1/4" = 1'-0"

NOTES - ALUMINUM WINDOWS (W)

1. PROVIDE SHIM SPACE, BACKER ROD AND SEALANT AROUND PERIMETER OF ALL WINDOW FRAMING WHERE FRAMING ABUTS DISSIMILAR MATERIALS.
2. PROVIDE FOAM INSULATION IN SHIM SPACE AROUND PERIMETER OF ALL EXTERIOR WINDOW FRAMING.
3. DIMENSIONS SHOWN ARE NOMINAL. FIELD VERIFY ALL DIMENSIONS SHOWN PRIOR TO FABRICATION AND INSTALLATION.
4. ALL FRAMES IN EXTERIOR WALLS SHALL BE THERMALLY BROKEN WITH 1" INSULATED GLAZING.
5. ALL GLAZING SHALL CONFORM TO STATE AND LOCAL CODES.
6. REFER TO BUILDING ELEVATIONS FOR HINGE SIDE LOCATIONS.
7. PROVIDE 3/4"X3/4" ALUMINUM SCRIBE MOLD AT PERIMETER OF BOTH SIDES ON ALL WINDOWS UNLESS NOTED OTHERWISE. SET SCRIBE MOLDS IN SEALANT.

GLASS SCHEDULE	
MK	GLASS TYPES
A	1/4" TEMPERED (CLEAR)
B	1" INSUL. GLASS (CLEAR)
C	1" INSUL. GLASS (TINTED)
D	1/2" LAMINATED
E	5/16" LAMINATED
S	SPANDREL



DOOR AND FRAME SCHEDULE

NO.	DESC	DOOR TYPE	DOOR W	DOOR H	DOOR MAT'L	GLASS DR	GLASS SIDE LGT	GLASS TRA	FRAME MAT'L	FRAME DEPTH	FRAME ELEV.	LBL	HARDWARE CLOSER	HARDWARE EXIT DEVICE	NOTES
T-101	DOUBLE	4	6' - 0"	7' - 2"	WD	A	A		HM	8 3/4"	HM3		Yes	Yes	2, 3, 5, 12
T-102A	DOUBLE	4	6' - 0"	7' - 2"	WD	A,E			HM	8 3/4"	HM2		Yes	Yes	2, 3, 5, 8, 9, 15, MEETING
T-102B	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9
T-102C	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9
T-102D	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9
T-102E	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9
T-102F	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9
T-102G	SINGLE	1	3' - 0"	7' - 2"	WD				HM	8 3/4"	HM1		Yes	Yes	EXIT ONLY
T-102H	SINGLE	2	3' - 0"	7' - 2"	WD	A,E			HM	8 3/4"	HM1		No	No	9, 15, STORAGE/PREP
T-102J	SINGLE	2	3' - 0"	7' - 2"	WD	A,E			HM	8 3/4"	HM1		No	No	9, 15, STORAGE/PREP
T-102K	SINGLE	1	3' - 0"	7' - 2"	WD				HM	8 3/4"	HM1		Yes	Yes	EXIT ONLY
T-103A	SINGLE	4	3' - 0"	7' - 2"	WD	A,E			HM	8 3/4"	HM1		Yes	Yes	2, 3, 8, 9, 15, MEETING
T-103B	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9
T-103C	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9
T-104	DOUBLE	1	6' - 0"	7' - 2"	WD				HM	8 3/4"	HM2		No	No	13, STORAGE
T-105A	SINGLE	4	3' - 0"	7' - 2"	WD	A,E			HM	8 3/4"	HM1		Yes	Yes	2, 3, 8, 9, 15, MEETING
T-105B	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9
T-105C	BORROWED LITE		6' - 0"	4' - 0"			A,E		HM	8 3/4"	HM11		No	No	9
T-106A	DOUBLE	4	6' - 0"	7' - 2"	WD	A,E			HM	8 3/4"	HM2		Yes	Yes	2, 3, 5, 8, 9, 15, MEETING
T-106B	SINGLE	1	3' - 0"	7' - 2"	WD				HM	8 3/4"	HM1		Yes	Yes	2, 3, MEETING
T-107	DOUBLE	1	6' - 0"	7' - 2"	WD				HM	8 3/4"	HM2		No	No	13, STORAGE
T-111	DOUBLE	1	6' - 0"	7' - 2"	WD				HM	8 3/4"	HM2		No	No	13, STORAGE
T-112	EXISTING	-	3' - 0"	7' - 0"	EXISTING				EXISTING				No	No	NEW BATTERY OPERATED CARD READER
T-114	SINGLE	2	3' - 6"	7' - 2"	WD	A			HM	8 3/4"	HM1		No	No	STORAGE
T-131	DOUBLE	1	6' - 0"	7' - 0"	HM				HM	6"	HM2		Yes	Yes	1, 2, 3, 4, 5, 6, EXTERIOR
T-132	SINGLE	1	3' - 0"	7' - 2"	WD				HM	8 3/8"	HM1		No	No	ELECTRICAL ROOM
T-134	SINGLE	1	3' - 0"	7' - 2"	WD				HM	9 1/8"	HM1		No	No	1, CUSTODIAL
T-135	SINGLE	1	3' - 0"	7' - 2"	WD				HM	9 1/8"	HM1		No	No	1, STORAGE
T-140A	SINGLE	2	3' - 6"	7' - 2"	WD	A			HM	8 3/4"	HM1		Yes	Yes	CLASSROOM
T-140B	SINGLE	2	3' - 6"	7' - 2"	WD	A			HM	8 3/4"	HM1		Yes	Yes	CLASSROOM
T-140C	SINGLE	2	3' - 0"	7' - 2"	WD	A			EXIST		EXIST		Yes		14, PASSAGE KEY DEADBOLT BOTH SIDES
T-141	SINGLE	1	3' - 0"	7' - 2"	WD				HM	8 3/4"	HM1		Yes	No	PRIVACY
T-143	SINGLE	2	3' - 6"	7' - 2"	WD	A			EXISTING		EXIST		Yes	No	14, OFFICE
T-144	DOUBLE	4	6' - 0"	7' - 2"	WD	A	A		HM	8 3/4"	HM3		Yes	Yes	2, 3, 5, SECURE HALLWAY
T-145	DOUBLE	4	6' - 0"	7' - 2"	WD	A			HM	8 3/4"	HM2		Yes	Yes	5, CLASSROOM
T-147	SINGLE	2	3' - 0"	7' - 2"	WD	A			HM	8 3/4"	HM1		Yes	No	PASSAGE KEY DEADBOLT BOTH SIDES
T-148A	SINGLE	2	3' - 0"	7' - 2"	WD	A			HM	10 3/4"	HM1		Yes	No	STORAGE/PREP
T-148B	SINGLE	2	3' - 0"	7' - 2"	WD	A			HM	8 3/4"	HM1		Yes	No	STORAGE/PREP
T-149	SINGLE	2	3' - 6"	7' - 2"	WD	A			HM	8 3/4"	HM1		Yes	Yes	CLASSROOM
T-152	SINGLE	1	3' - 0"	7' - 2"	WD				HM	10 3/4"	HM1		No	No	CUSTODIAL

GENERAL DOOR NOTES:

A. JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. SEE A-800 SERIES DRAWINGS FOR FINISHES.

B. SEAL ALL JAMBS AND HEADS WHERE FRAMES MEET EXPOSED MASONRY AND/OR GYPSUM BOARD.

C. PROVIDE A 3/4"x3/4" SCRIBE MOLD AT ALL EXTERIOR DOOR FRAMES AND WHERE NOTED ON DRAWINGS. METAL AT EXTERIOR OF METAL FRAMES AND AT BOTH SIDES OF ALUMINUM FRAMES. SET SCRIBE MOLDS IN SEALANT.

D. PROVIDE GLAZING AND GLASS STOPS AS REQUIRED.

E. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS.

F. SHIM SPACE IS NOT SHOWN ON FRAME ELEVATIONS FOR ALUMINUM STOREFRONT. TAKE THESE DIMENSIONS INTO ACCOUNT AND ADJUST DIMENSIONS ACCORDINGLY.

G. FOR DOOR POSITION WITHIN WALL REFER TO FRAME MOUNTING DETAILS ON SHEET A-601.

H. FOR ELECTRIC ROUGH-IN AT DOORS REFER TO DETAILS ON SHEET A-601.

I. FOR HOLLOW METAL FRAME ELEVATIONS AND PROFILES ON SHEET A-601.

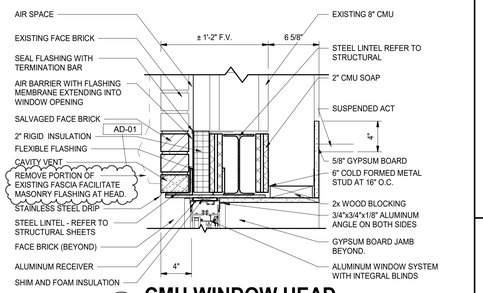
J. GLASS NOTED IN DOOR COLUMN FOR BORROWED LIGHT FRAMES APPLIES TO ALL OPENINGS IN FRAME, UNLESS NOTED OTHERWISE. REFER TO FRAME ELEVATIONS.

K. WHERE FRAMES INDICATE 2 OR MORE OPENINGS FOR DOORS, EACH SINGLE OR PAIR OF DOORS IS SCHEDULED SEPARATELY AND FRAME INDICATED.

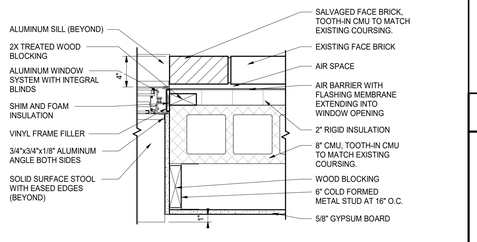
L. REFER TO FRAME ELEVATIONS FOR HEAD, JAMB, AND SILL DETAILS ON SHEET A-601.

DOOR SCHEDULE NOTES (REMARKS):

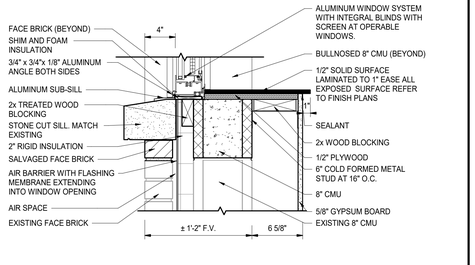
1. FIELD VERIFY EXISTING WALL CONSTRUCTION PRIOR TO ORDERING FRAME.
2. PANIC DEVICE OR LATCH TO HAVE ELECTRIC LATCH BOLT. PREPARE FRAME FOR ELECTRIFIED HINGE.
3. DOOR TO BE PREPARED TO BE CONTROLLED BY CARD READER/FOB. REFER TO ELECTRICAL DRAWINGS FOR ROUGH-IN.
4. PROVIDE ALUMINUM THRESHOLD SET IN FULL BED OF MASTIC.
5. PROVIDE KEYED REMOVABLE MULLION.
6. PREPARE DOOR AND FRAME FOR POSITION SWITCH.
7. INSTALL FLUSH BOLTS ON INACTIVE LEAF
8. PROVIDE SOUND GASKET AT HEAD AND JAMB. PROVIDE DROP DOWN SEAL AT THE BOTTOM OF THE DOOR
9. PROVIDE SOUND GASKET AROUND GLASS EDGE
10. INTEGRAL CONCEALED ROD PANIC HARDWARE.
11. NEW DOOR IN EXISTING FRAME. FIELD VERIFY DOOR SIZE.
12. DOOR TO UTILIZE 180 DEGREE HINGES TO OPEN AGAINST WALL.
13. THROW BOLTS HEAD AND SILL IN INACTIVE LEAF.
14. VERIFY EXISTING FRAME SIZE PRIOR TO ORDERING DOOR SLAB. MODIFY FRAME AS REQUIRED FOR NEW DOOR HARDWARE.
15. OVERALL GLASS UNIT 1-1/16" - 1/4" GLASS, 1/2" SPACER, 1/8" GLASS, .060" PVB, 1/8" GLASS



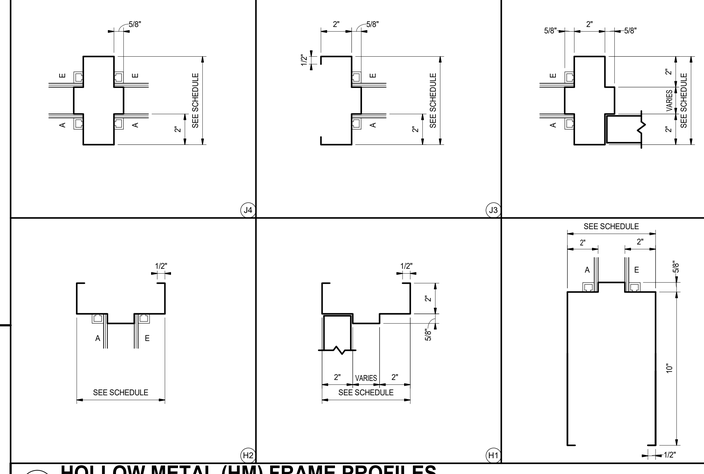
8 A-601 CMU WINDOW HEAD
1 1/2" = 1'-0"



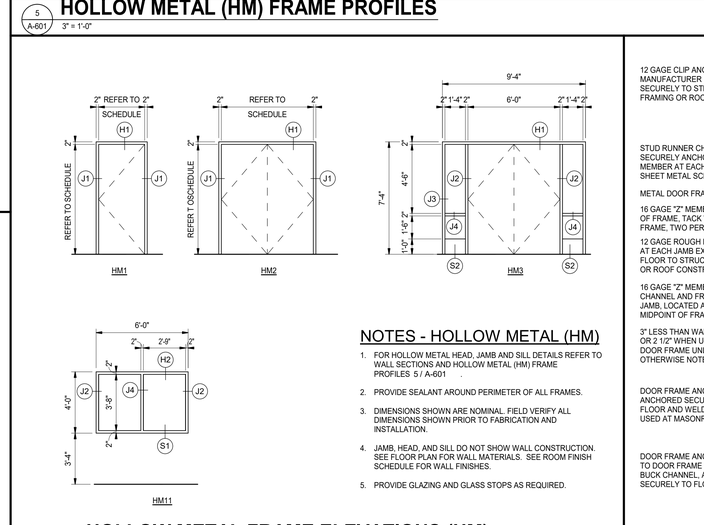
7 A-601 CMU WINDOW JAMB
1 1/2" = 1'-0"



6 A-601 CMU WINDOW SILL
1 1/2" = 1'-0"



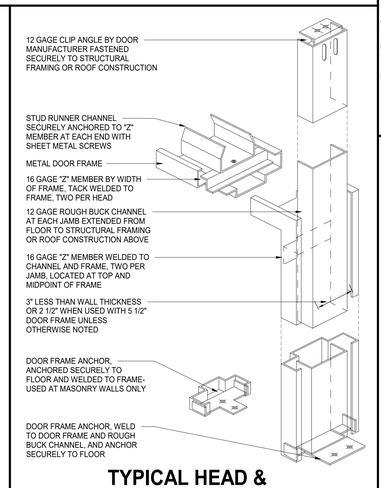
5 A-601 HOLLOW METAL (HM) FRAME PROFILES
3" = 1'-0"



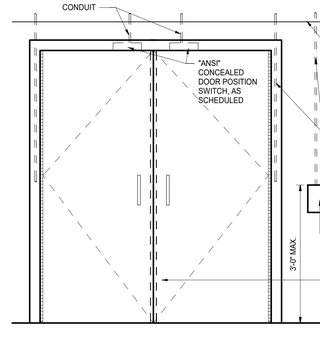
NOTES - HOLLOW METAL (HM)

1. FOR HOLLOW METAL HEAD, JAMB AND SILL DETAILS REFER TO WALL SECTIONS AND HOLLOW METAL (HM) FRAME PROFILES 5 / A-601 .
2. PROVIDE SEALANT AROUND PERIMETER OF ALL FRAMES.
3. DIMENSIONS SHOWN ARE NOMINAL. FIELD VERIFY ALL DIMENSIONS SHOWN PRIOR TO FABRICATION AND INSTALLATION.
4. JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. SEE ROOM FINISH SCHEDULE FOR WALL FINISHES.
5. PROVIDE GLAZING AND GLASS STOPS AS REQUIRED.

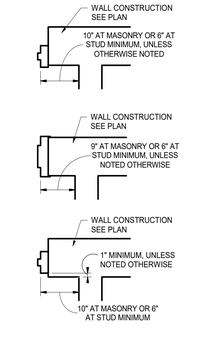
4 A-601 HOLLOW METAL FRAME ELEVATIONS (HM)
1/4" = 1'-0"



3 A-601 TYPICAL HEAD & JAMB ANCHORAGE
NTS



2 A-601 TYPICAL ELECT ROUGH/FRAME MOUNT
3/4" = 1'-0"



1 A-601 FRAME MOUNTING
3/4" = 1'-0"

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PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
MERRILLVILLE, IN, 46410

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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
EJM
DRAWN BY
CJA, EJM
CHECKED BY
JPB

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

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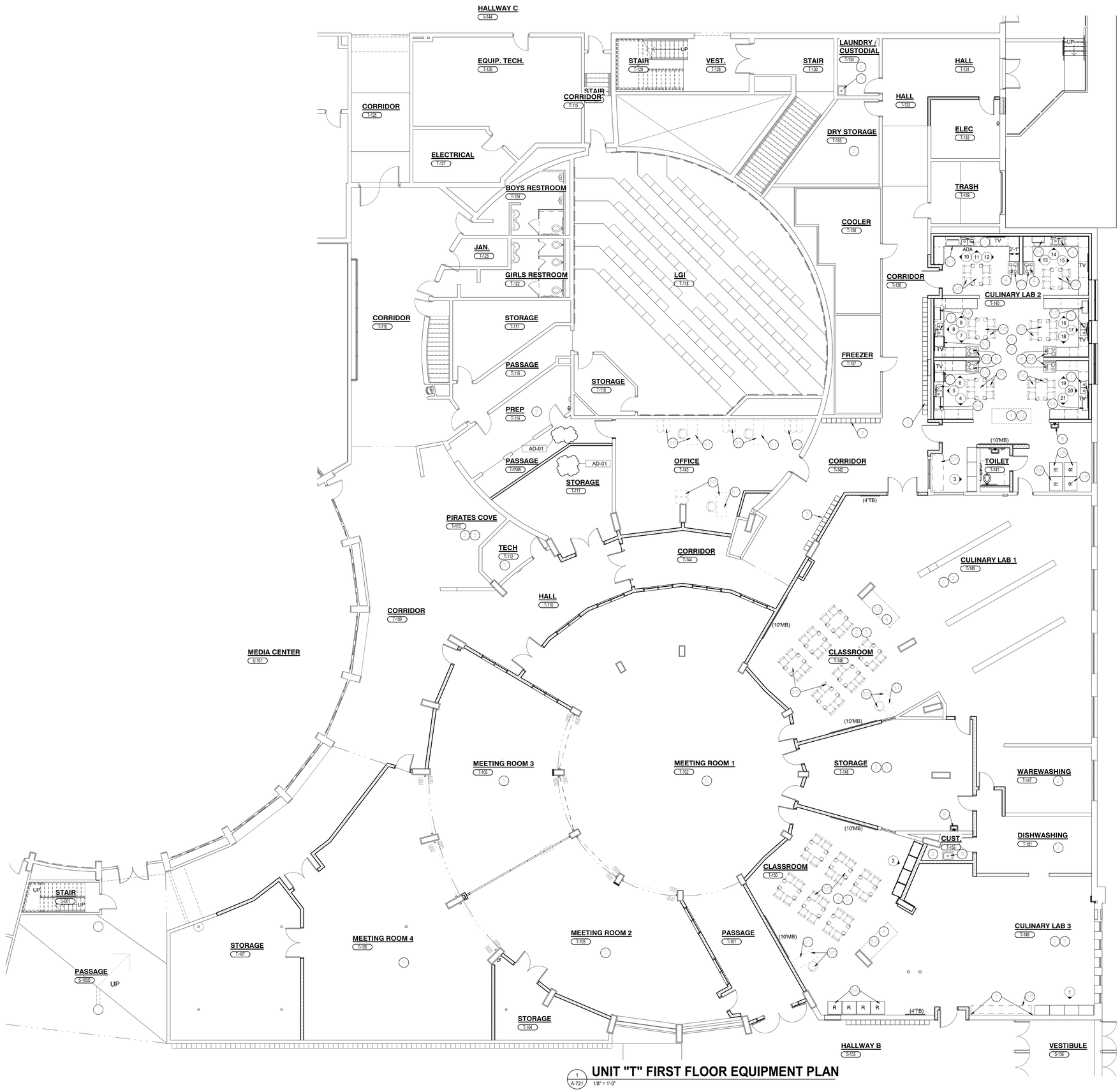
DRAWING
DOOR SCHEDULE, FRAME PROFILES, ELEVATIONS AND DETAILS

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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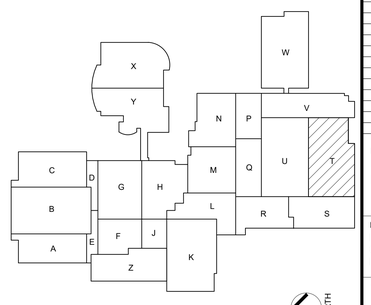
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A-601

7/24/2026 8:40:13 AM
C:\Users\calanis\Documents\25-181 Merrillville HS - ARCH R25_CAlanis7JFHA.rvt



1 A-721 **UNIT "T" FIRST FLOOR EQUIPMENT PLAN**

1/8" = 1'-0"



KEY PLAN

NORTH

GENERAL EQUIPMENT NOTES:

A. REFER TO SPECIFICATIONS, ELECTRICAL, PLUMBING, TECHNOLOGY AND FINISH LEGEND FOR ADDITIONAL INFORMATION.

B. FIELD VERIFY ALL DIMENSIONS.

C. CASEWORK AND/OR MILLWORK INSTALLER TO COORDINATE ELECTRICAL AND PLUMBING WORK, REFER TO ELECTRICAL DRAWINGS AND SCHEDULES FOR ELECTRICAL DEVICE TYPES, HEIGHTS AND LOCATIONS.

EQUIPMENT PLAN LEGEND:

—— INDICATES ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE BY OWNER. (NOT INCLUDED IN CONSTRUCTION CONTRACT).

- - - - INDICATES BULKHEADS OR OTHER OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

(MB) INDICATES 4' HIGH MARKER BOARD LENGTH AS INDICATED, REFER TO MOUNTING HEIGHT DRAWINGS. REFER TO DETAIL G-301.

(TB) INDICATES 4' HIGH TACK BOARD LENGTH AS INDICATED, REFER TO MOUNTING HEIGHT DRAWINGS. RFER TO DETAIL G-301.

(TV) TELEVISION MONITOR, BY OWNER -, REFER TO TECHNOLOGY DRAWING.

(TV-C) TELEVISION MONITOR, BY OWNER - CEILING MOUNTED, REFER TO TECHNOLOGY DRAWING.

EQUIPMENT PLAN NOTES:

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

1 SINK IN CASEWORK, REFER TO CASEWORK AND PLUMBING DRAWINGS
2 REFER TO FOOD SERVICE, ELECTRICAL, MECHANICAL, PLUMBING AND TECHNOLOGY DRAWING FOR ADDITIONAL EQUIPMENT AND COORDINATION .
3 LOCKERS. REFER TO ARCHITECTURAL DRAWINGS.
4 DEMOSTRATION TABLE, REFER TO FOOD SERVICE EQUIPMENT DRAWINGS, ELECTRIC AND PLUMBING DRAWINGS.
5 REFER TO ELECTRICAL AND TECHNOLOGY DRAWINGS FOR TV MONITORS AND SOUND SYSTEM.
6 REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RANGE VENTILATION.
7 WALL PROTECTION, ENTIRE LENGTH OF WALL,HORIZONTAL CHAIR RAIL. TWO UNITS, ONE AT 8" AFF AND ONE 30" AFF..
8 HAND SINK, BY PLUMBING. REFER TO PLUMBING DRAWINGS.
9 MOP SINK, BY PLUMBING. REFER TO PLUMBING DRAWINGS.

OWNER FURNISHED EQUIPMENT:

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

50 LOOSE FURNITURE, BY OWNER. INDICATED ON PLAN FOR ELECTRICAL AND TECHNOLOGY COORDINATION
51 COMPUTER / MONITOR BY OWNER. REFFER TO ELECTRICAL AND TECHNOLOGY DRAWINGS
52 CAMERA FOR DEMOSTRATION TABLE, BY OWNER. REFER TO ELECTRICAL AND TECHNOLOGY DRAWINGS.
53 RESIDENTIAL UNDERCOUNTER DISHWASHER BY OWNER. REFER TO ELECTRICAL AND PLUMBING DRAWINGS.
54 RESIDENTIAL MICROWAVE ON WALL SHELF, BY OWNER. REFER TO ELECTRICAL AND PLUMBING DRAWINGS.
55 RESIDENTIAL RANGE WITH OVEN, ELECTRIC, BY OWNER. REFER TO ELECTRICAL.
56 RESIDENTAL RANGE WITH OVEN, GAS, BY OWNER. REFER TO ELECTRICAL AND PLUMBING DRAWINGS.
57 RESIDENIAL MICROWAVE IN BASE CABINET, BY OWNER. REFER TO ELECTRICAL DRAWINGS.
58 RESIDENIAL REFRIGERATOR, BY OWNER. REFER TO ELECTRICAL.
59 RESIDENIAL MICROWAVE ON COUNTERTOP, BY OWNER. REFER TO ELECTRICAL DRAWINGS.

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PROJECT
25-181
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COORDINATED BY
EJM
DRAWN BY
CLN
CHECKED BY
CLN, NAS

JOSEPH P. BRIGGS REGISTERED NO 11600109 STATE OF INDIANA ARCHITECT

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DRAWING
UNIT "T" FIRST FLOOR EQUIPMENT PLAN

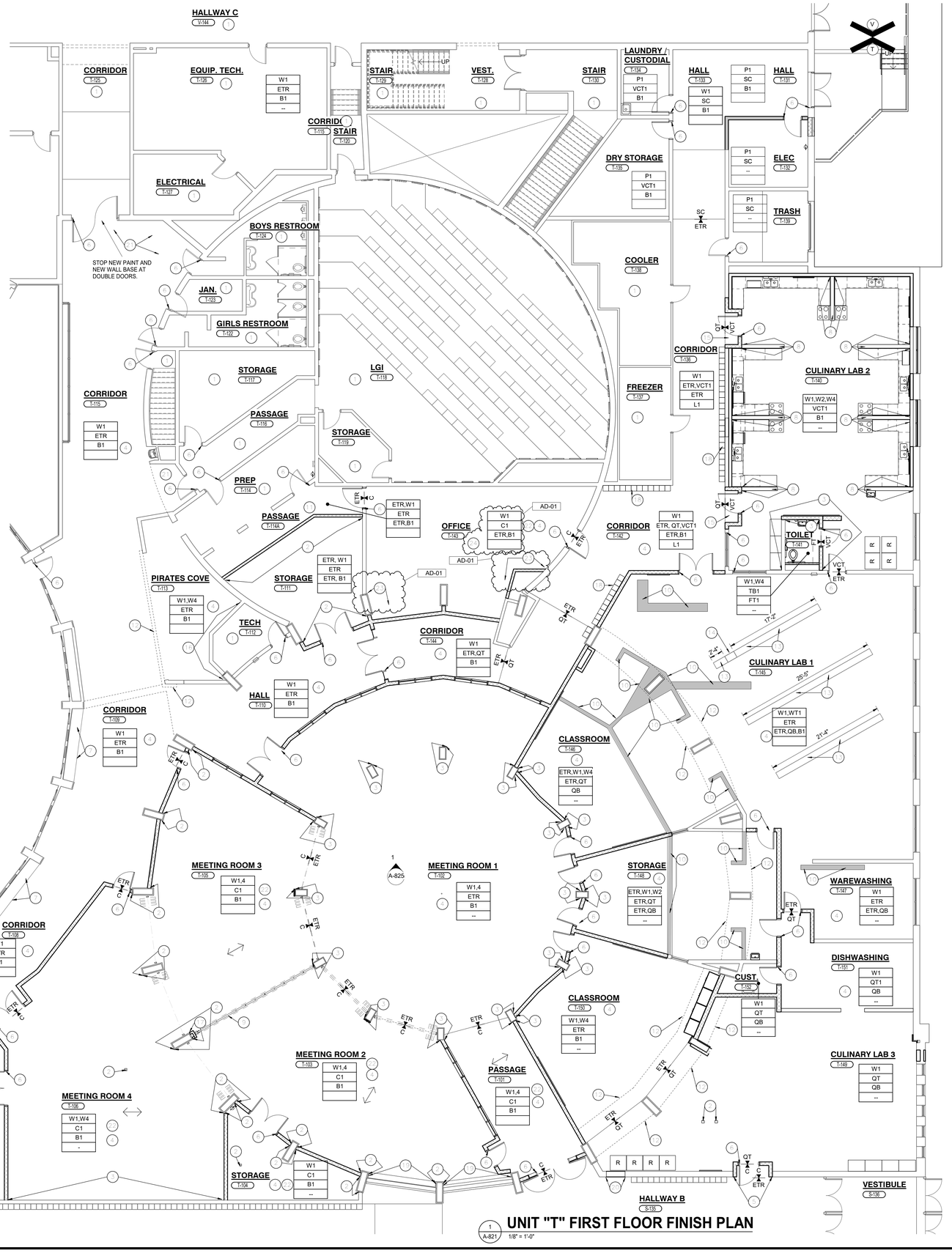
PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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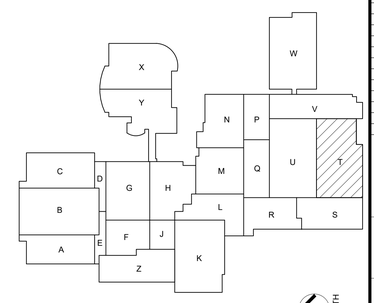
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UNIT "T" FIRST FLOOR FINISH PLAN



KEY PLAN

NORTH

GENERAL FINISH NOTES:

A. REFERENCE FINISH LEGEND FOR FINISH INFORMATION.

B. REFERENCE 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 FLOOR FINISH TRANSITIONS AT DOORS SHALL BE CENTERED UNDER DOOR WHEN CLOSED UNLESS NOTED OTHERWISE.

I. 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.

J. 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.

K. FOR FLOOR FINISH TRANSITION DETAILS REFER TO A500 SERIES SHEETS.

L. 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.

M. PAINT ALL SIDES OF NEW AND EXISTING DOOR FRAMES, WHERE INDICATED, P6.

N. EXPOSED SURFACES OF DUCTWORK TO BE PAINTED TO MATCH ADJACENT SURFACES UNLESS NOTED OTHERWISE.

O. PAINT ALL SIDES OF BULKHEADS IN ROOMS RECEIVING FINISHES P10 UNLESS NOTED OTHERWISE.

P. REFER TO PROJECT MANUAL FOR FINISH LEVEL REQUIREMENTS FOR GYPSUM BOARD SURFACES UNLESS OTHERWISE INDICATED.

Q. AT EXISTING WALL TILE OR COLUMN

FINISH PLAN LEGEND:

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

FLOOR TRANSITION AS REQUIRED

INDICATES DIRECTION OF MATERIAL GRAIN

INDICATES BULKHEADS OR OTHER OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

INDICATES QUARRY TILE PATCH WORK.

FINISH PLAN NOTES:

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

1 NO NEW FINISHES THIS ROOM, EXCLUDING DOOR FRAMES CONNECTED TO OTHER ROOMS THAT RECEIVE FINISHES
2 PAINT, W1
3 PAINT, W4
4 PAINT EXISTING WALL TILE (TYPICAL) SEE SPECIFICATIONS TO PREP TILE WALLS PRIOR TO PAINTING.
5 PAINT TO MATCH EXISTING ADJACENT WALL PAINT. WALL BASE B1 AND INFILL FLOOR WITH OWNERS ATTIC STOCK OF CARPET.
6 PAINT DOOR FRAME, INSIDE AND OUT, P6
7 EXISTING PLASTIC LAMINATE COUNTERTOP TO REMAIN.
8 PAINT, W2, LOW WALL ONLY
9 MOVING PARTITION WALL FABRIC, PW.
10 QUARRY TILE INFILL TO BE FLUSH WITH EXISTING FLOORING, QT1.
11 PAINT NEW WALLS ONLY, W1.
12 PAINT BULKHEAD, P4
13 STAINLESS STEEL WALL TOP CAP. REFER TO FOOD SERVICE DRAWINGS.
14 FILL VOID WHERE WALL WAS LOWERED WITH WALL TILE WT1, THEN PAINT W1.
15 FLOORING, VCT1 IN DOOR ALCOVE.
16 PAINT (4) ROWS OF 2" X 2" GREEN TILE, W4.
17 WALL TILE, WT2
18 LOCKERS TO MATCH EXISTING LOCKERS IN HIGH SCHOOL. VERIFY WITH OWNER .
19 NEW SOLID SURFACE WALL / LEDGE CAP, SS1. REFER TO ARCHITECTUAL DETAIL.
20 WALL PAINT, MATCH EXISTING ADJACENT WALL PAINT. WALL BASE, MATCH EXISTING ADJACENT.
21 EXISTING CARPET TO REMAIN.
22 EXISTING QUARRY TILE FLOOR WILL REQUIRE CLEANING AND ABRADING TILE AND GROUT JOINTS AS RECOMMENDED BY FLOORING MANUFACTURER FOR ADHERENCE OF LEVELING COMPOUND AND ADHESIVES PRIOR TO INSTALLING CARPET. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
AD-01 23 WALL BASE B1
24 PAINT EXISTING QUARRY TILE BASE TO MATCH COLOR OF NEW BASE B1. THIS ROOM ONLY.

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PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
EJM
DRAWN BY
CLN
CHECKED BY
CLN,NAS

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

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01

DRAWING
UNIT "T" FIRST FLOOR FINISH PLAN

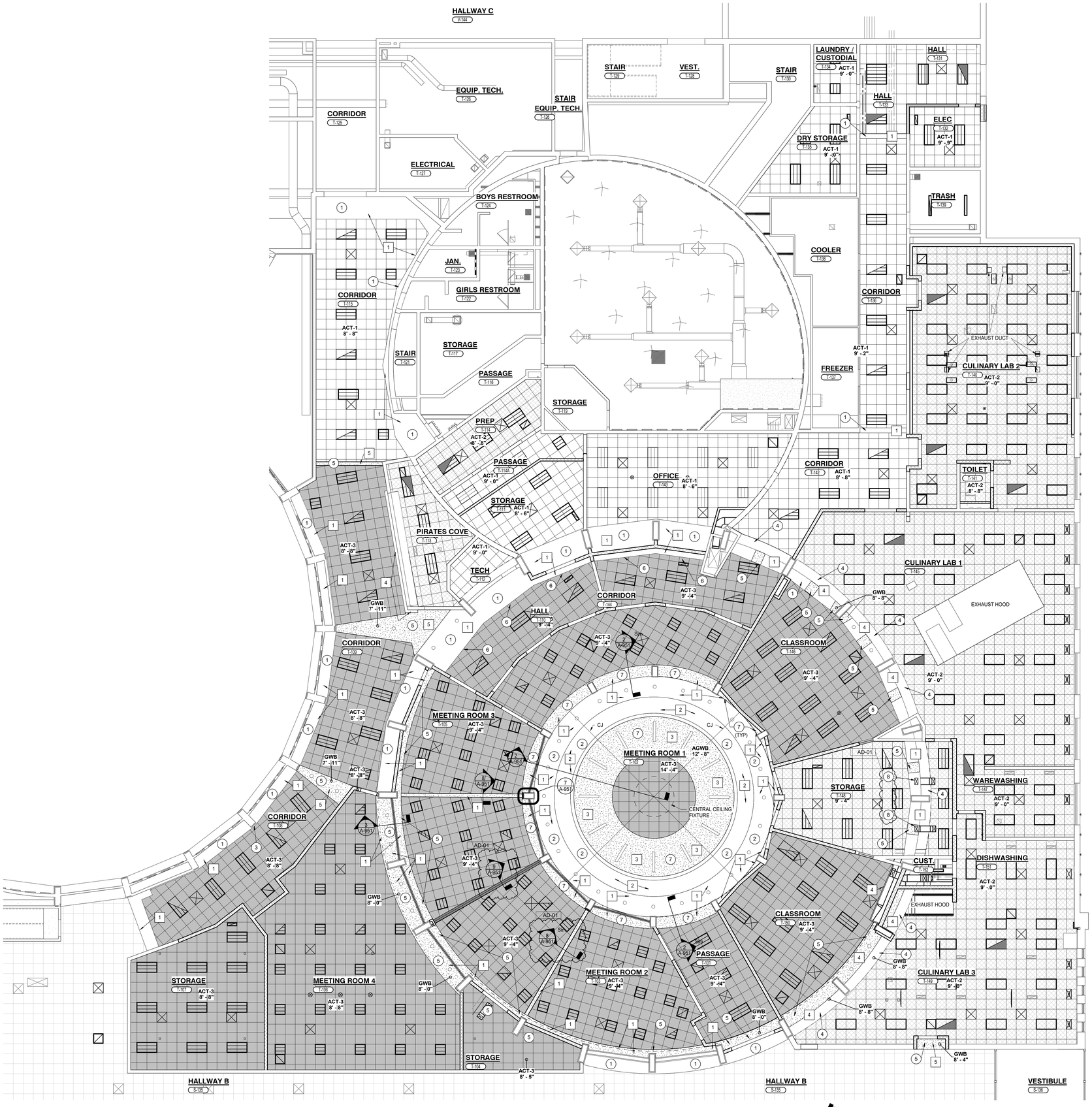
PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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1 A-921 **UNIT "T" FIRST FLOOR UNIT REFLECTED CEILING PLAN**

1/8" = 1'-0"

NORTH

GENERAL REFLECTED CEILING NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO SHEET G-301.

B. THE ARCHITECTURAL REFLECTED CEILING PLANS GOVERN THE LAYOUT OF ALL CEILING ELEMENTS AND PENETRATIONS.

C. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT THE ROOF DECK.

D. REFER TO FLOOR PLANS FOR WALL TYPES.

E. REFER TO FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD TYPES AND QUANTITIES. HEADS HAVE INTENTIONALLY BEEN OMITTED FOR CLARITY.

F. CEILING ACCESS PANELS INDICATED ARE NOT INTENDED TO LIMIT NUMBER OF PANELS REQUIRED. PANEL QUANTITY SHALL BE SUFFICIENT TO PROVIDE REQUIRED ACCESS WHETHER OR NOT INDICATED ON THE DRAWINGS. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK.

G. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPE AND QUANTITIES.

H. REFER TO MECHANICAL DRAWINGS FOR DIFFUSERS, GRILL TYPES AND QUANTITIES - ALL MECHANICAL ITEMS MAY NOT BE INDICATED ON THIS SHEET.

I. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL CEILING MOUNTED TECHNOLOGY ITEMS

J. REFER TO FINISH PLANS AND INTERIOR ELEVATIONS FOR PAINT COLORS.

CEILING LEGEND

- ACT-1
- ACT-2
- ACT-3
- LIGHT FIXTURE
- SUPPLY AIR DIFFUSER
- RETURN OR EXHAUST REGISTER
- EXHAUST REGISTER
- EXTERIOR INSULATED FINISH SYSTEM (EIFS)
- INTERIOR FINISH SYSTEM (IFS) OVER GLASS MATT GYPSUM SHEATHING
- GYPSUM BOARD CEILING OR BULKHEAD. REFER TO TYPICAL BULKHEAD DETAILS ON SHEET A-951 AND WALL SECTIONS

REFLECTED CEILING PLAN NOTES:

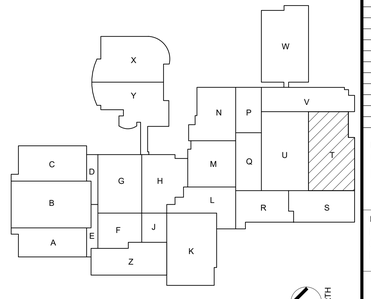
(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

1 EXISTING PORTION OF GYPSUM BOARD BULKHEAD TO REMAIN. PATCH WHERE NEW WALLS INTERFACE.
2 LAMINATE 5/8" ACOUSTIC GYPSUM BOARD OVER EXISTING GYPSUM BULKHEAD.
3 PATCH WHERE EXISTING BULKHEAD WAS REMOVED.
4 PATCH STRUCTURAL CONCRETE RING. PREPARE FOR PAINT.
5 NEW GYPSUM BOARD BULKHEAD
6 PATCH EXISTING BULKHEAD WHERE MECHANICAL REGISTERS WERE REMOVED. REFER TO MECHANICAL DRAWINGS.
7 NEW ACOUSTIC BOARD BULKHEAD SYSTEM
8 DUCTWORK TO RUN EXPOSED TO ROUTE UNDER EXISITNG CONCRETE BEAM. AD-01

REFLECTED CEILING FINISH NOTES:

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

1 PAINT BULKHEAD, P7 ON ALL EXPOSED SIDES. ALSO REFER TO INTERIOR ELEVATION OF BULKHEADS IN MEETING ROOM 1.
2 PAINT BULKHEAD, P1 ON ALL EXPOSED SIDES. ALSO REFER TO INTERIOR ELEVATION OF BULKHEADS IN MEETING ROOM 1.
3 PAINT BULKHEAD, P3 ON ALL EXPOSED SIDES. ALSO REFER TO INTERIOR ELEVATION OF BULKHEADS IN MEETING ROOM 1.
4 PAINT BULKHEAD, P4 ON ALL EXPOSED SIDES.
5 PAINT BULKHEAD, P3 ON ALL EXPOSED SIDES.



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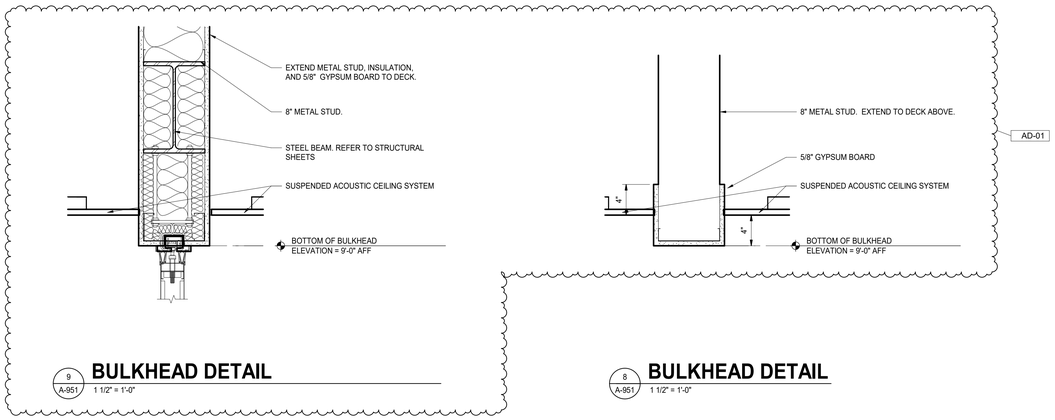
DRAWING
UNIT "T" FIRST FLOOR REFLECTED CEILING PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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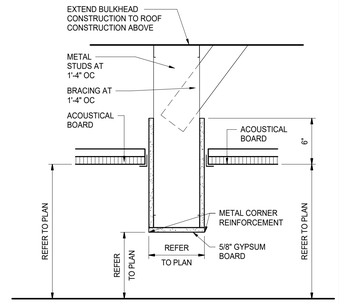
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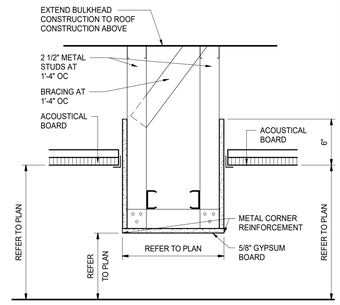


9 A-951 **BULKHEAD DETAIL**
1 1/2" = 1'-0"

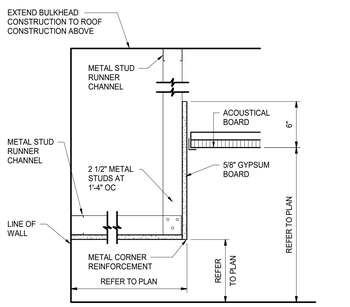
8 A-951 **BULKHEAD DETAIL**
1 1/2" = 1'-0"



DETAIL "A"

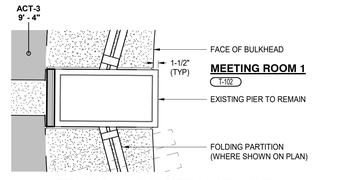


DETAIL "B"

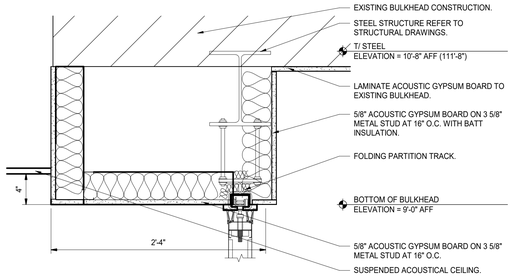


DETAIL "C"

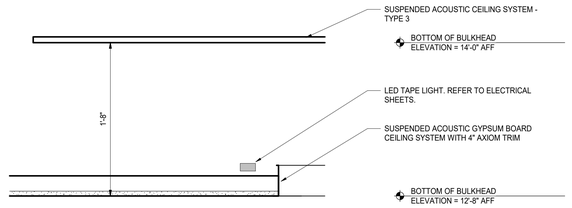
1 A-951 **BULKHEAD DETAILS**
1 1/2" = 1'-0"



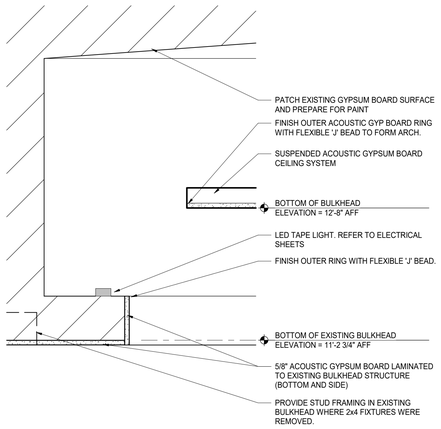
7 A-951 **CEILING - INNER CIRCLE**
3/4" = 1'-0"



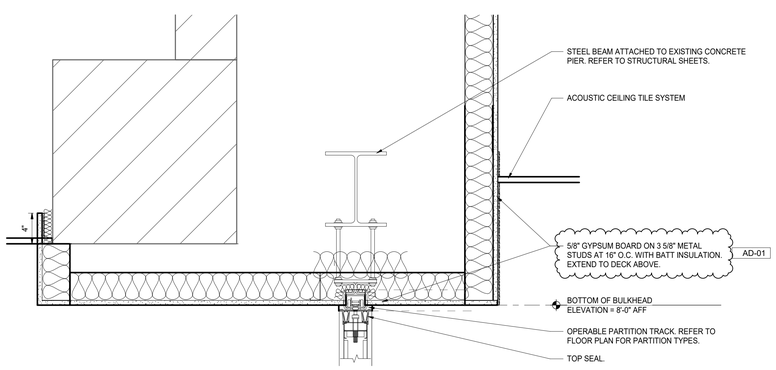
4 A-951 **BULKHEAD DETAIL**
1 1/2" = 1'-0"



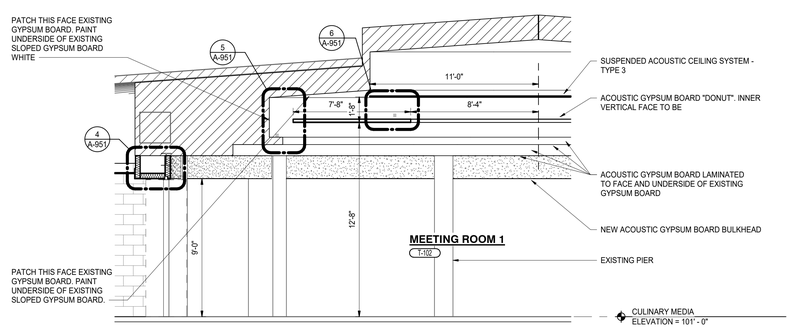
6 A-951 **BULKHEAD DETAIL**
1 1/2" = 1'-0"



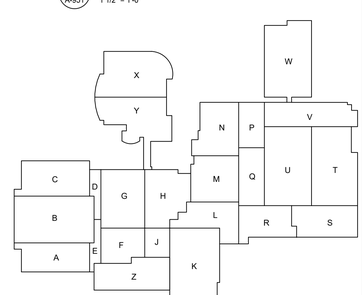
5 A-951 **BULKHEAD DETAIL**
1 1/2" = 1'-0"



3 A-951 **WALL SECTION**
1 1/2" = 1'-0"



2 A-951 **MEETING ROOM 1 CENTRAL CEILING**
1/4" = 1'-0"



KEY PLAN

NORTH

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AD-01	07/24/26	ADDENDUM 01

DRAWING
CEILING AND BULKHEAD DETAILS

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

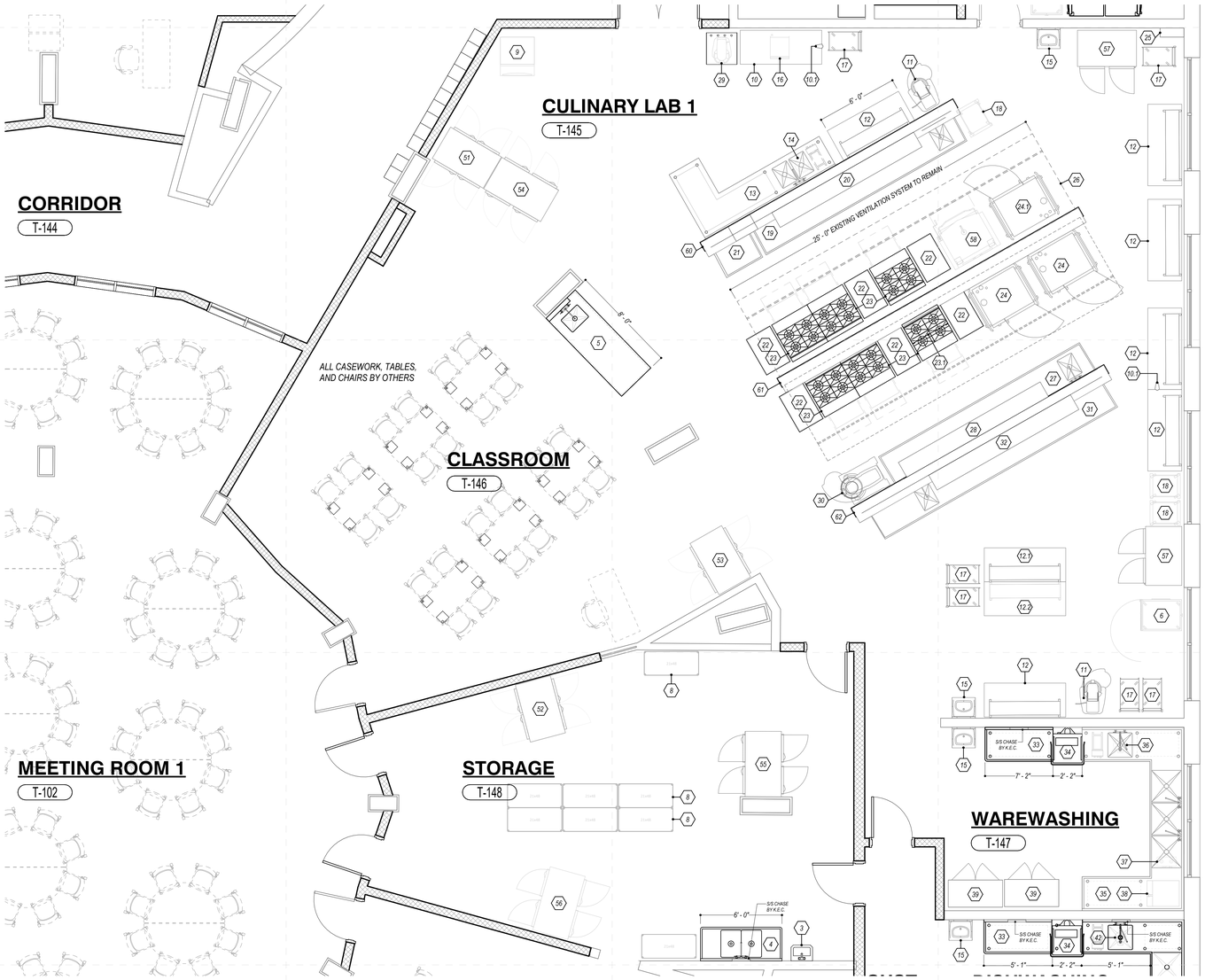
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CULINARY EQUIPMENT SCHEDULE

	Mark	Qty	Description	Manufacturer	Model	Comments
	1	1	Walk-In Cooler			Existing to Remain in current location
	2	1	Walk-In Freezer			Existing to Remain in current location
	3	2	Hand Sink	By Division 22		New
	4	3	Vegetable Prep Sink	Advance Tabco	FS-2-1818-18RL	New
	5	3	Demonstration Table	Conover Custom Stainless		New
	6	3	Mobile Proofer Cabinet	FWE	ETC-2333-18PH	Existing to be Relocated
	7	8	Residential Refrigerator			By Owner
	8	23	Shelf Unit, Fixed	Assorted		Existing to be Relocated
	9	1	Ice Machine	Manitowoc		Existing to be Relocated
	10	1	Work Table	Custom Fabricated		Existing to Remain in current location
	10.1	2	Manual Can Opener	Edlund	S-11	Existing to Remain in current location
*	11	2	30qt Floor Mixer	Hobart	D300	Existing to Remain in current location
*	12	6	Work Table	Custom Fabricated		Existing to Remain in current location
	12.1	1	Work Table	Custom Fabricated		Existing to Remain in current location
	12.2	1	Work Table	Custom Fabricated		Existing to Remain in current location
*	13	1	Vegetable Prep Table	Custom Fabricated		Existing to Remain in current location
*	14	1	Disposer with Controls	Insinkerator	SS-200 / CC-101	Existing to Remain in current location
	15	5	Porcelain Hand Sink			Existing to Remain in current location
	16	1	Microwave Oven	Panasonic	NE-1757	Existing to be Relocated
	17	6	Utility Cart	Lakeside Manufacturing	711	Existing to Remain in current location
	18	3	Sheet Pan Rack, Mobile	CresCor	200-1841A	Existing to be Relocated
*	19	1	Prep Table w/ Sink	Custom Fabricated		Existing to Remain in current location
*	20	1	Wall Shelf	Custom Fabricated		Existing to Remain in current location
*	21	1	Prep Table	Custom Fabricated		Existing to Remain in current location
	22	6	Work Table	Custom Fabricated		New
	23	6	36" Four Burner Range w/ Oven Base	Southbend	P36D-XX	New
	23.1	1	Salamander Broiler	Southbend	P36-CM	New
*	24	2	Combi Oven-Steamer	Rational	SCC 102G	Existing to Remain in current location
*	24.1	1	Combi Oven-Steamer	Rational	SCC 102G	
	25	1	Fire Suppression System	Ansul	R-102	Existing to Remain in current location
	26	2	Cooking Exhaust System			Existing to Remain in current location
*	27	1	Prep Table w/ Sink	Custom Fabricated		Existing to Remain in current location
*	28	1	Wall Shelf	Custom Fabricated		Existing to Remain in current location
	29	1	20 Quart Mixer with Mobile Stand	Hobart	A200	Existing to be Relocated
*	30	1	60Qt. Mixer	Hobart	H600-T	Existing to Remain in current location
*	31	1	Prep Table w/ Sink	Custom Fabricated		Existing to Remain in current location
*	32	1	Wall Shelf	Custom Fabricated		Existing to Remain in current location
	33	2	Clean Dishtable	Conover Custom Stainless		New
	34	2	Dishwasher, Straight	CMA	AH	New
*	35	1	Utensil Washing Sink	Custom Fabricated		Existing to Remain in current location
*	36	1	Disposer with Controls	Insinkerator	SS-200 / CC-101	Existing to Remain in current location
*	37	1	Sink Heater	Hatco	3CS-9B	Existing to Remain in current location
*	38	1	Booster Heater	Hatco Corporation	S-15	Existing to Remain in current location
*	39	2	Storage Cabinet	Custom Fabricated		Existing to Remain in current location
	40	2	Mop Sink			By Division 22
	41	1	Utensil Washing Sink	Conover Custom Stainless		New
	42	1	Disposer with Controls	InSinkErator	SS-200 / CC-101	New
	43	1	Stacking Combi Oven-Steamers	Electrolux	A0S062GCP2	Existing to be Relocated
	43.1	1	Combi Oven-Steamer	Rational	SCC 102G	Existing to be Relocated
	44	1	Combi Ventilation System	Master Air	EH	New
	45	1	Work Table w/ Sink	Conover Custom Stainless		New
	46	1	Work Table w/ Sink	Conover Custom Stainless		New
	47	10	Mobile Work Table	Conover Custom Stainless		New
	48	20	Single Burner Cooktop	CookTek	MC1800	New
	49	11	Work Stand, Mobile	CresCor	278-PT-1818-DS	New
	50	1	MetroMax I, Mobile Drying Rack	Metro	PR36VX4-XDR	New
	51	1	Refrigerator Pass-Thru	Traulsen	AHT232WPUT	Existing to be Relocated
	52	1	Refrigerator Pass-Thru	Traulsen	AHT232WPUT	Existing to be Relocated
	52.1	1	Refrigerator Pass-Thru	Traulsen	AHT232WPUT	Existing to Remain in current location
	53	1	Refrigerator Pass-Thru	Traulsen	AHT232WPUT	Existing to be Relocated
	54	1	Pass-Thru Hot Food Holding Cabinet	Traulsen	AHF232WP-HHS	Existing to be Relocated
	55	1	Pass-Thru Hot Food Holding Cabinet	Traulsen	AHF232WP-HHS	Existing to Remain in current location
	56	1	Pass-Thru Hot Food Holding Cabinet	Traulsen	AHF232WP-HHS	Existing to be Relocated
	56.1	1	Pass-Thru Hot Food Holding Cabinet	Traulsen	AHF232WP-HHS	Existing to Remain in current location
	57	2	Refrigerator, Reach-In	Traulsen	AHT226W	Existing to Remain in current location
	58	1	Gas Tilting Skillet	Southbend	BGLM-40	Existing to be Relocated
	59	1	Ice Machine	Manitowoc		Existing to be Relocated from FACS Lab
	60	1	Wall Cap	Conover Custom Stainless		New
	61	1	Wall Cap	Conover Custom Stainless		New
	62	1	Wall Cap	Conover Custom Stainless		New
	63	1	Popcorn Popper	Nemco		Existing to be Relocated from FACS Lab
	64	1	Refrigerated Prep Table	True Foodservice	TSSU-27-08-HC	Existing to be Relocated from FACS Lab
	65	1	Work Table	Advance Tabco	AG304	Existing to be Relocated from FACS Lab
	66	1	Digital Countertop Impinger	Lincoln Foodservice Products	2501/1346	Existing to be Relocated from FACS Lab
	67	1	Spare Number			
	68	1	Refrigerator, Reach-In	Traulsen	AHT226W	Existing to Remain in current location
	69	1	Spare Number			
	70	1	Spare Number			
	71	1	Cashier Stand	LTI	36-CSE	New
	72	1	Hot/Cold/Freeze Food Table	LTI	SL-50-QSCHP-3-L	New
	73	1	Serving Counter, Solid Top	LTI	SPC-ST-LP-84	New
	74	1	Display Refrigerator	True Foodservice	TDM-DZ-59-GE/GE-B-W	New
	75	1	POS System	By Owner		Existing to be Relocated
	76	1	Spare Number			
	77	1	Spare Number			
	78	1	Spare Number			
	79	1	Prep Table w/ Sinks (in Pirates Cove)	Custom Fabricated		Existing to Remain in current location
	80	1	Spare Number			
	81	1	Clothes Washer	By Owner		Existing to be Relocated
	82	1	Clothes Dryer	By Owner		Existing to be Relocated
	83	1	Coffee Brewer	Fetco	XTS	Existing to be Relocated from FACS Lab

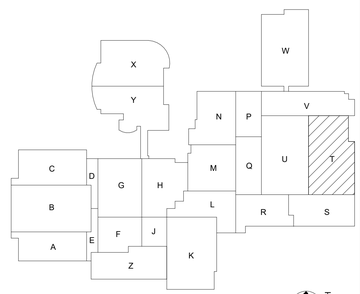


AD-01

CONTRACTOR NOTE: EQUIPMENT DESIGNATED WITH A " * " TO APPLY THE FOLLOWING:

PRIOR TO THE PAINTING OF THE INTERIOR WALLS, NOTE THE FOLLOWING SEQUENCE OF OPERATION:

- *PLUMBING CONTRACTOR TO DISCONNECT ALL GAS LINES, WATER LINES, AND DRAIN LINES CONNECTED TO THE EQUIPMENT. REMOVE ALL SURFACE MOUNTED PLUMBING COMPONENTS.*
- *ELECTRICAL CONTRACTOR TO DISCONNECT ELECTRICAL SERVICES TO THE EQUIPMENT. REMOVE ALL SURFACE MOUNTED ELECTRICAL COMPONENTS.*
- *KITCHEN EQUIPMENT CONTRACTOR TO TEMPORARILY RELOCATE THE EQUIPMENT TO A LOCATION THAT GIVES ADEQUATE ROOM FOR THE WALL PAINTING TO TAKE PLACE.*
- *AFTER PAINTING IS COMPLETE, THE KITCHEN EQUIPMENT CONTRACTOR SHALL MOVE THE EQUIPMENT BACK TO THE POSITION WHERE SHOWN IN THE DRAWING.*
- *PLUMBING AND ELECTRICAL CONTRACTORS TO RECONNECT EQUIPMENT AS REQUIRED.*



KEY PLAN

NORTH

GIBRALTAR DESIGN
ARCHITECTURE · ENGINEERING · INTERIOR DESIGN

PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
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PROJECT 136026.00
DATE 07/14/2026
COORDINATED BY DJW
DRAWN BY DJW
CHECKED BY DJW

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01

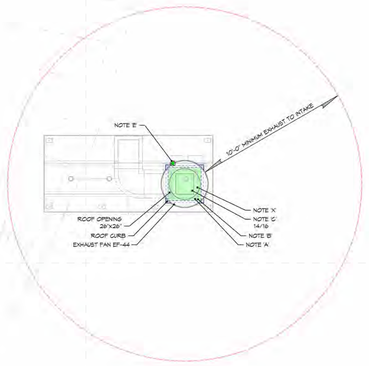
DRAWING
CULINARY EQUIPMENT PLAN - LAB 1

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATION

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REFERENCE NOTES

A. Roofing Contractor to cutout roof opening, and set in place/flash (with cant, if required) roof curb.

B. Structural Contractor to frame roof opening as required.

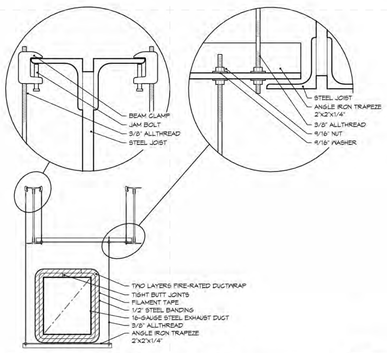
C. Hood System Manufacturer to provide and install 18-gauge fully-welded steel exhaust duct.

E. Electrical Contractor to furnish 3-phase power to motor starter panel mounted on top of hood (single supply circuit) and extend from motor starter panel to remote exhaust fan.

E1. Electrical Contractor to furnish 1-phase (120 Volt) power to junction box on top of hood for lighting circuit.

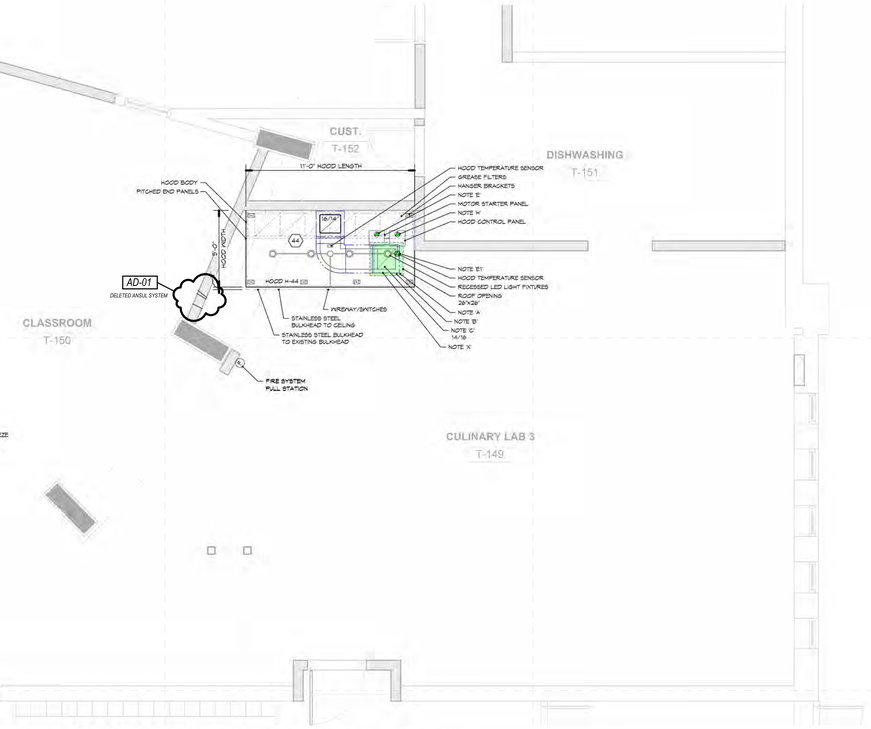
H. Electrical Contractor to furnish control wiring (24 Volt) between microswitch in fire protection system and hood control panel.

X. Hood System Manufacturer to provide and install a fire-rated duct wrap system meeting ASTM - E2336 Standards and as required by code.



EXHAUST DUCT INSTALLATION DETAIL

NO SCALE



SPECIFICATIONS (ITEM #44)

HOOD: (1) Master Air Model EH Type I canopy exhaust hood, sized as shown on the drawings. Factory to pre-assemble hood sections and furnish fasteners for field assembly.

MATERIAL: 18-gauge type 304 stainless steel #4 finish, where exposed. Double thickness pitched outside end panels solid welded and polished to face with no exposed joints. Filter rack mullion to be tack-welded to inside end panel. UL 710 Listed construction #3656.

LIGHTS: (4) Allanson model ALF16-120V-WW LED Recessed light fixtures for canopy exhaust hoods factory-wired to junction box and switches on wireway.

FILTERS: (6) 25"x20"x2" Flame Gard FRS1-2520 Stainless steel grease filters UL File #R10713.

BULKHEAD: 18-gauge stainless steel bulkhead between top of hood and ceiling, or down top of hood and bottom of building bulkhead, on all exposed sides. Verify ceiling and bulkhead heights before construction.

WIREWAY COVER: 18-gauge stainless steel vertical wireway cover, centered on face of hood.

SWITCHES: On/off, control switches for hood lights and exhaust/supply fans. Mounted on wireway cover.

FAN PACKAGE: Exhaust fan: (1) Greenheck model CUBE-180, UL 705 Listed - Supplement SG (formerly UL 762) - for use in grease-laden environments, with prewired disconnect switch, tilting base, and grease catch trough.

ROOF CURB: 18-gauge welded galvanized steel, internally insulated, and equipment rail, set for flat roof. Verify roof pitch and direction before construction.

FAN DISCHARGE: 10'-0" minimum from any building inlet and 40" above building roof.

EXHAUST DUCT: 16-gauge welded black iron exhaust duct, with continuous liquid-tight external welds at all seams and joints. Provide 1/4" per foot minimum slope toward hood on all horizontal duct runs. Provide cleanouts every 20'-0" of duct length or at every change of direction greater than 45 degrees, as required per code.

EXHAUST DUCT WRAP: Exhaust ducts serving Type I hoods shall be installed with a rated duct wrap system meeting ASTM E2336 standards, from the point of ceiling penetration (or duct connection) at the hood, to the termination of the duct at the exhaust fan (or exit of the duct from the building), and where required per International Mechanical Code. The duct wrap system shall be 3M "Fire Barrier Duct Wrap 615+" or equivalent. The duct wrap system shall be installed in strict accordance with the system's listing and the manufacturer's instructions for 2-hour rated system 0" clearance to combustible and grease duct installation. System requires two layers of 1.5" uncompressed insulation. Insulation to be banded to the duct with steel banding straps. Penetration of rated walls and floors shall be fire-stopped in accordance with the system manufacturer's installation instructions.

DELETED ANSUL SYSTEM

AD-01

EXHAUST SYSTEM WORK BY OTHER TRADES:

KITCHEN EQUIPMENT CONTRACTOR: Coordinate with General, Electrical, HVAC, and Plumbing contract documents.

ROOFING CONTRACTOR: Provide roof deck openings. Set in place and flash (with cant if required) roof curbs and equipment rail furnished by the hood system manufacturer.

STRUCTURAL CONTRACTOR: Frame roof curb openings as required. Coordinate joist or structural member installation to provide required clearances for ductwork and shaft assemblies.

ELECTRICAL CONTRACTOR: (Hood System Requirements) Provide 120/60/1 20-amp circuit (for hood lights and controls) to junction box on top of hood. Provide 3-phase circuit (for fan motor) to disconnect switch mounted on exterior of motor starter cabinet. Extend power wiring from motor starter panel (mounted on top of hood) to connection point on exhaust fan. This work must be installed in accordance with the NEC.

AD-01

DELETED ANSUL SYSTEM

MECHANICAL CONTRACTOR: Provide net room air demand as indicated on the hood system drawings. This air volume is required only when hood system is in operation. Provide normal heating and cooling of the kitchen area. High velocity diffusers or HVAC returns should not be placed within ten (10) feet of exhaust hood. Perforated diffusers are recommended. Install gas valve (supplied with the fire suppression system) in the main supply line serving the cooking equipment to shut off gas service to the cooking equipment in the event of fire system actuation. Provide and install service to gas-fired furnace on building roof.

COMPLETE MAKE-UP AIR SYSTEM AND DUCTWORK: Provided and installed by others.

KITCHEN ROOF FOODSERVICE EXHAUST SYSTEM PLAN (CULINARY LAB 3)

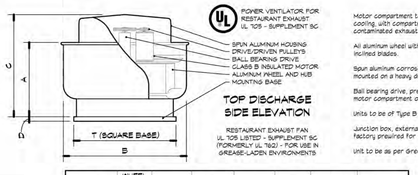
SCALE: 1/4" = 1'-0"

FIRE-RATED GREASE DUCTWRAP
Meets ASTM - E2336 Standards

CLEANOUT/ACCESS DOOR DETAIL
Commercial Kitchen Grease Exhaust Duct

FIRE-RATED GREASE DUCTWRAP/ACCESS DOOR DETAILS

NO SCALE



TOP DISCHARGE SIDE ELEVATION

RESTAURANT EXHAUST FAN UL 705 LISTED - SUPPLEMENT SG (FORMERLY UL 762) - FOR USE IN GREASE-LADEN ENVIRONMENTS

Motor compartment to be provided with forced air cooling, with compartment sealed against contaminated exhaust air.

All aluminum wheel with non-overloading backward inclined blades.

Spun aluminum corrosion-resistant housing, mounted on a heavy duty steel substructure.

Ball bearing drive, preubricated, mounted inside motor compartment outside air stream.

Units to be of Type B construction.

Junction box, externally mounted on the fan body, factory prewired for field access.

Unit to be as per Greenheck CUBE series.

MODEL	WHEEL SIZE	A	B	C	D	T	WEIGHT
CUBE-180	18"	25.63"	37.24"	37.05"	3.3"	30"X30"	135 lb

UPBLAST EXHAUST FAN DETAIL

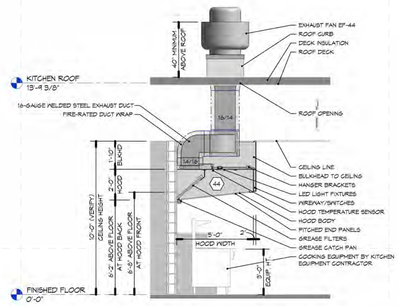
NO SCALE

AD-01

DELETED ANSUL SYSTEM

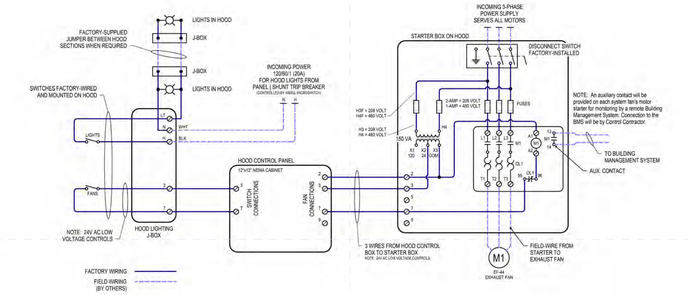
REFLECTED FOODSERVICE EXHAUST SYSTEM PLAN (CULINARY LAB 3)

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



SYSTEM ELEVATION W/ HOOD SECTION (ITEM #44)

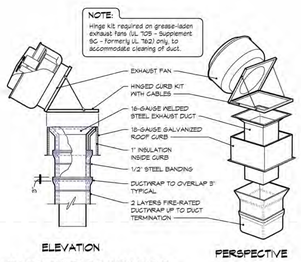
SCALE: 1/4" = 1'-0"



WIRING DIAGRAM (ITEM #44)

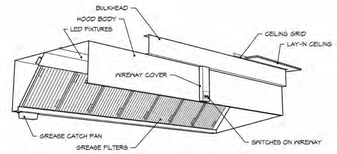
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NOTE
Hinge kit required on grease-laden exhaust fans (UL 705 - Supplement SG - formerly UL 762) only, to accommodate cleaning of duct.



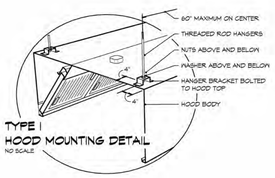
HINGE KIT/FIRE WRAP TO TERMINATION DETAIL

NO SCALE



TYPE I MODEL 'EHFE' HOOD PERSPECTIVE

NO SCALE.



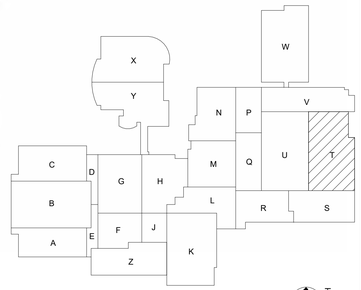
TYPE I HOOD MOUNTING DETAIL

NO SCALE

FAN NO.	HOOD SERVED	ROOF OPENING	FAN TYPE	MFR.	MODEL	CFM	STATIC PRESS.	SONES	WEIGHT	ELECTRICAL INFO MOTOR SIZE	ELECTRICAL INFO VOLTAGE/ PHASE
EF-44	H-44	29"x28"	EXHAUST	GREENHECK	CUBE-180	2,495	1.13 in-wg	14.30	135 lb	1.5 hp	208/60/3

HOOD	HOOD TYPE	HOOD SIZE (LxWxH)	WEIGHT	EXHAUST AIR VOLUME	EXHAUST AIR COLLAR SIZE	EXHAUST AIR VELOCITY	EXHAUST S.P.
H-44	TYPE I	11'-0"X5'-0"X24"	330 lb	2,495 CFM	(1) 18"x14"	1,925 FPM	0.63 in-wg
EXHAUST HOOD TOTALS:			330 lb	2,495 CFM			

SYSTEM TOTALS		
EXHAUSTED AIR		2,495
TEMPERED SUPPLY AIR	(0%)	0
REQUIRED AIR THRU BUILDING SOURCES		2,495



KEY PLAN

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PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
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DATE
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DRAWING
CULINARY VENTILATION DETAILS

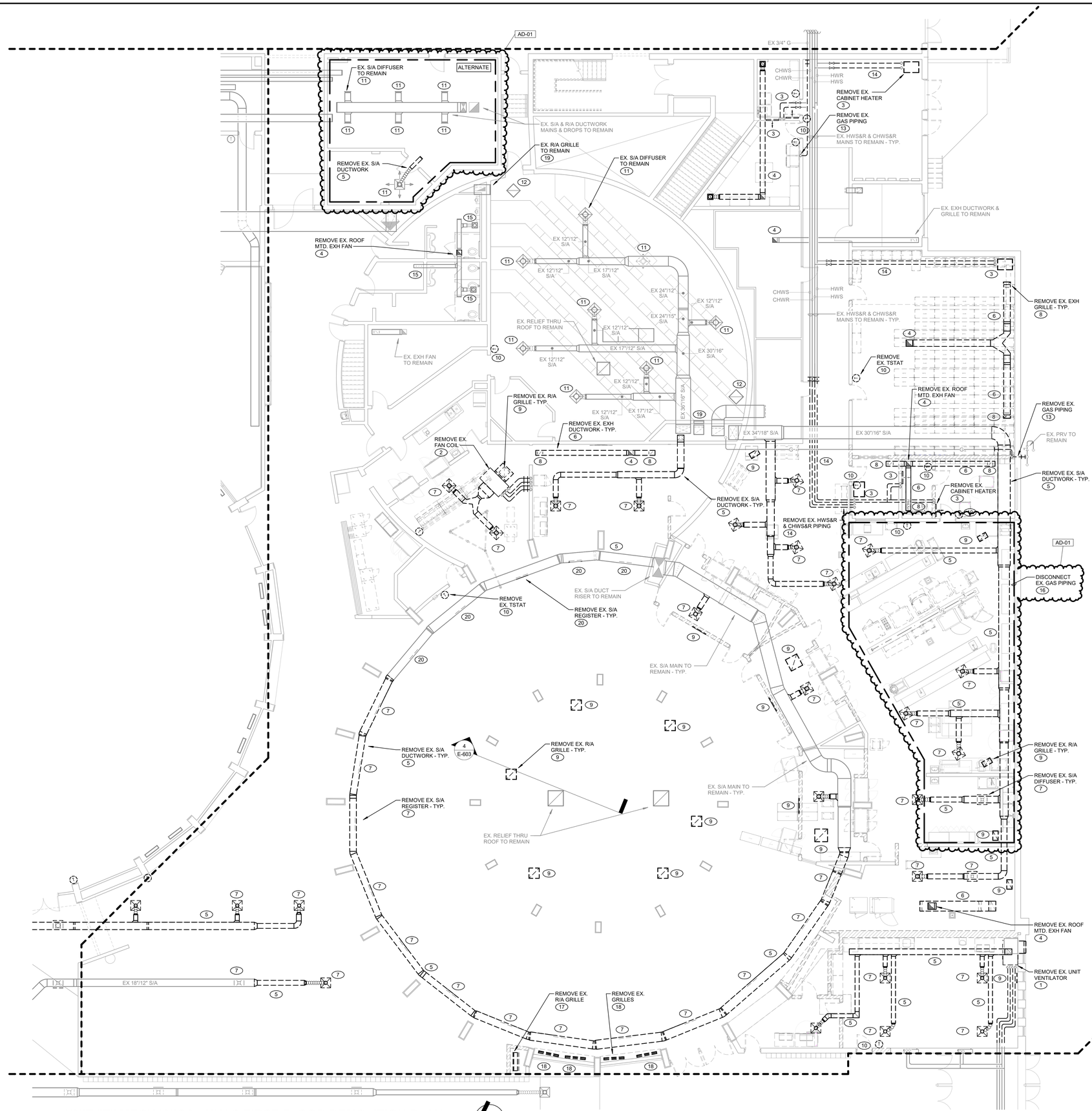
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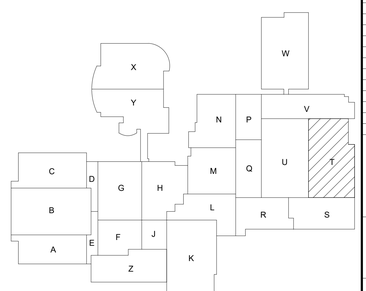
SHEET NOTES

1. REMOVE EXISTING UNIT VENTILATOR AND ASSOCIATED DUCTWORK, PIPING, LOUVER, CONTROLS, ELECTRICAL CONNECTIONS, ETC. COMPLETE AS REQUIRED.
2. REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED DUCTWORK, PIPING, CONTROLS, ELECTRICAL CONNECTIONS, ETC. COMPLETE AS REQUIRED.
3. REMOVE EXISTING HOT WATER CABINET HEATER AND ASSOCIATED PIPING, CONTROLS, ETC. COMPLETE AS REQUIRED.
4. REMOVE EXISTING ROOF MOUNTED EXHAUST FAN DUCT RISER COMPLETE AS REQUIRED.
5. REMOVE EXISTING SUPPLY AIR DUCTWORK COMPLETE AS REQUIRED.
6. REMOVE EXISTING EXHAUST AIR DUCTWORK COMPLETE AS REQUIRED.
7. REMOVE EXISTING SUPPLY AIR DIFFUSER AND ASSOCIATED SUPPLY AIR DUCTWORK COMPLETE AS REQUIRED.
8. REMOVE EXISTING EXHAUST AIR GRILLE AND ASSOCIATED EXHAUST AIR DUCTWORK COMPLETE AS REQUIRED.
9. REMOVE EXISTING RETURN/TRANSFER AIR GRILLE AND ASSOCIATED RETURN/TRANSFER AIR DUCTWORK COMPLETE AS REQUIRED.
10. REMOVE EXISTING THERMOSTAT AND ASSOCIATED CONTROLS WIRING, TUBING, ETC. COMPLETE AS REQUIRED.
11. REMOVE AND INSPECT EXISTING SUPPLY AIR DIFFUSER COMPLETE AS REQUIRED. TEST EXISTING SUPPLY AIR DIFFUSER AIRFLOW CAPACITY PRIOR TO WORK. SUBMIT TEST REPORT FOR REVIEW.
12. REMOVE AND INSPECT EXISTING TRANSFER AIR GRILLE COMPLETE AS REQUIRED.
13. REMOVE EXISTING NATURAL GAS PIPING AND ASSOCIATED VALVES, SUPPORTS, ETC. COMPLETE AS REQUIRED.
14. REMOVE EXISTING HOT WATER SUPPLY AND RETURN AND CHILLED WATER SUPPLY AND RETURN PIPING AND ASSOCIATED VALVES, SUPPORTS, ETC. COMPLETE AS REQUIRED.
15. REMOVE AND INSPECT EXISTING EXHAUST AIR GRILLE COMPLETE AS REQUIRED. TEST EXISTING EXHAUST AIR GRILLE AIRFLOW CAPACITY PRIOR TO WORK. SUBMIT TEST REPORT FOR REVIEW.
16. REMOVE EXISTING KITCHEN EQUIPMENT PIPING CONNECTIONS FOR REPAIR OF EXISTING WALL. PROTECT EXISTING PIPING AND SUBMIT REPORT FOR ANY PIPING DEFICIENCIES. FIELD DETERMINE ALL LOCATIONS AND QUANTITIES.

AD-01

17. REMOVE EXISTING RETURN AIR GRILLE AND BLANK OFF EXISTING 44"x44" RETURN AIR OPENING COMPLETE AS REQUIRED.
18. REMOVE EXISTING SILL MOUNTED GRILLES COMPLETE AS REQUIRED.
19. REMOVE AND INSPECT EXISTING RETURN AIR GRILLE COMPLETE AS REQUIRED. TEST EXISTING RETURN AIR GRILLE AIRFLOW CAPACITY PRIOR TO WORK. SUBMIT TEST REPORT FOR REVIEW.
20. REMOVE EXISTING SUPPLY AIR REGISTER COMPLETE AS REQUIRED. EXISTING SUPPLY AIR DUCTWORK MAIN TO REMAIN. SEAL EXISTING REGISTER OPENING AIR TIGHT.

1 MD121 **UNIT "T" MECHANICAL HVAC FIRST FLOOR DEMOLITION PLAN**
1/8" = 1'-0"



KEY PLAN

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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
KM
DRAWN BY
RC
CHECKED BY
DJ

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

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DRAWING
UNIT "T" MECHANICAL FIRST FLOOR DEMOLITION PLAN

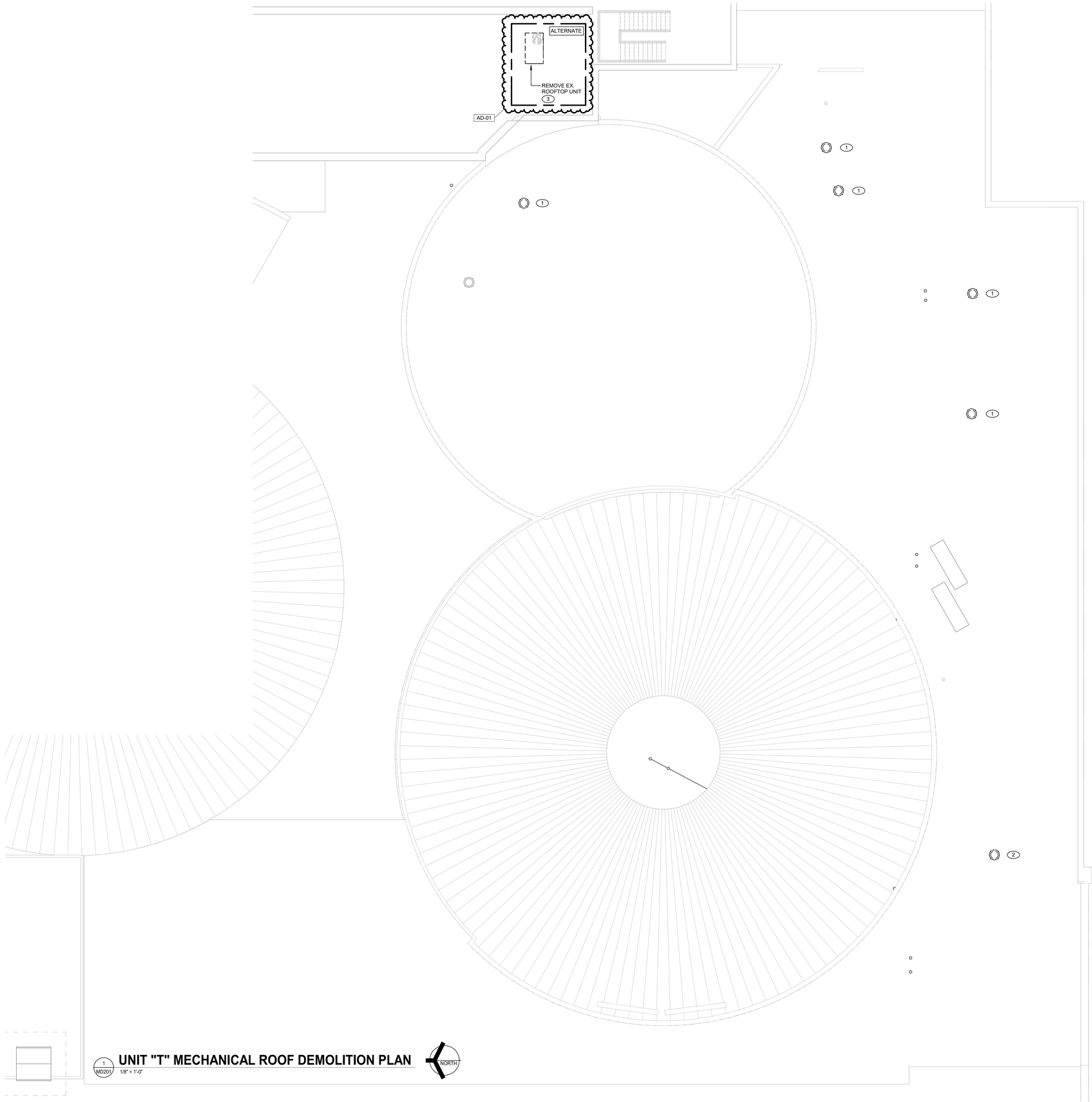
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1 MD201 **UNIT "T" MECHANICAL ROOF DEMOLITION PLAN**

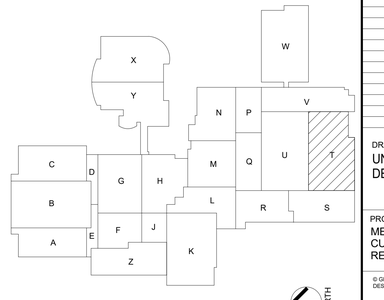
1/8" = 1'-0"

NORTH

SHEET NOTES

1. REMOVE EXISTING ROOF MOUNTED EXHAUST FAN AND ASSOCIATED DUCTWORK, CONTROLS, ELECTRICAL CONNECTIONS COMPLETE AS REQUIRED. EXISTING ROOF CURB TO REMAIN FOR NEW UNIT INSTALLATION.
2. REMOVE EXISTING ROOF MOUNTED EXHAUST FAN AND ASSOCIATED DUCTWORK, CONTROLS, ELECTRICAL CONNECTIONS COMPLETE AS REQUIRED. PROVIDE NEW INSULATED (MIN R-30 INS.) GALVANIZED SHEETMETAL CURB CAP AND SEAL WEATHERTIGHT.
3. REMOVE EXISTING HVAC ROOFTOP UNIT AND ASSOCIATED THERMOSTAT, CONTROL WIRING, CONDENSATE PIPING, ETC. COMPLETE AS REQUIRED. EXISTING ROOF CURB TO REMAIN FOR NEW UNIT INSTALLATION. DISCONNECT AND MODIFY EXISTING ELECTRICAL CONNECTION COMPLETE AS REQUIRED. EXISTING SUPPLY AIR AND RETURN AIR DUCTWORK SYSTEMS ARE TO REMAIN.

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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
KM
DRAWN BY
RC
CHECKED BY
DJ

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

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01

DRAWING
UNIT "T" MECHANICAL ROOF DEMOLITION PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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SHEET NOTES

1. CLEAN AND REINSTALL EXISTING SUPPLY AIR DIFFUSER COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK AND PROVIDE ADDITIONAL DUCTWORK FOR CONNECTION AS REQUIRED. BALANCE SUPPLY AIR DIFFUSER TO AIRFLOW CAPACITY SHOWN ON PLANS.
2. CLEAN AND REINSTALL EXISTING TRANSFER AIR GRILLE COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK AND PROVIDE ADDITIONAL DUCTWORK FOR CONNECTION AS REQUIRED.
3. CLEAN AND REINSTALL EXISTING EXHAUST AIR GRILLE COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK AND PROVIDE ADDITIONAL DUCTWORK FOR CONNECTION AS REQUIRED. BALANCE EXHAUST AIR GRILLE TO AIRFLOW CAPACITY SHOWN ON PLANS.
4. CLEAN AND REINSTALL EXISTING RETURN AIR GRILLE COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK AND PROVIDE ADDITIONAL DUCTWORK FOR CONNECTION AS REQUIRED. BALANCE RETURN AIR GRILLE TO AIRFLOW CAPACITY SHOWN ON PLANS.

UNIT "T" MECHANICAL DUCTWORK FIRST FLOOR PLAN

1 MV121 — 1/8" = 1'-0"

NORTH

KEY PLAN

NORTH

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PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
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SHEET NOTES

1. CLEAN AND REINSTALL EXISTING SUPPLY AIR DIFFUSER COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK AND PROVIDE ADDITIONAL DUCTWORK FOR CONNECTION AS REQUIRED. BALANCE SUPPLY AIR DIFFUSER TO AIRFLOW CAPACITY SHOWN ON PLANS.
2. CLEAN AND REINSTALL EXISTING SUPPLY AIR FLOOR REGISTER COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK AND PROVIDE ADDITIONAL DUCTWORK FOR CONNECTION AS REQUIRED. BALANCE SUPPLY AIR DIFFUSER TO AIRFLOW CAPACITY SHOWN ON PLANS.
3. CLEAN AND REINSTALL EXISTING TRANSFER AIR GRILLE COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK AND PROVIDE ADDITIONAL DUCTWORK FOR CONNECTION AS REQUIRED.
4. REINSTALL EXISTING KITCHEN EQUIPMENT PIPING CONNECTIONS UPON COMPLETION OF WALL REPAIRS COMPLETE AS REQUIRED.

AD-01

UNIT "T" MECHANICAL PIPING FIRST FLOOR PLAN

1 / MP121 — 1/8" = 1'-0"

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KEY PLAN

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UNIT "T" MECHANICAL PIPING FIRST FLOOR PLAN

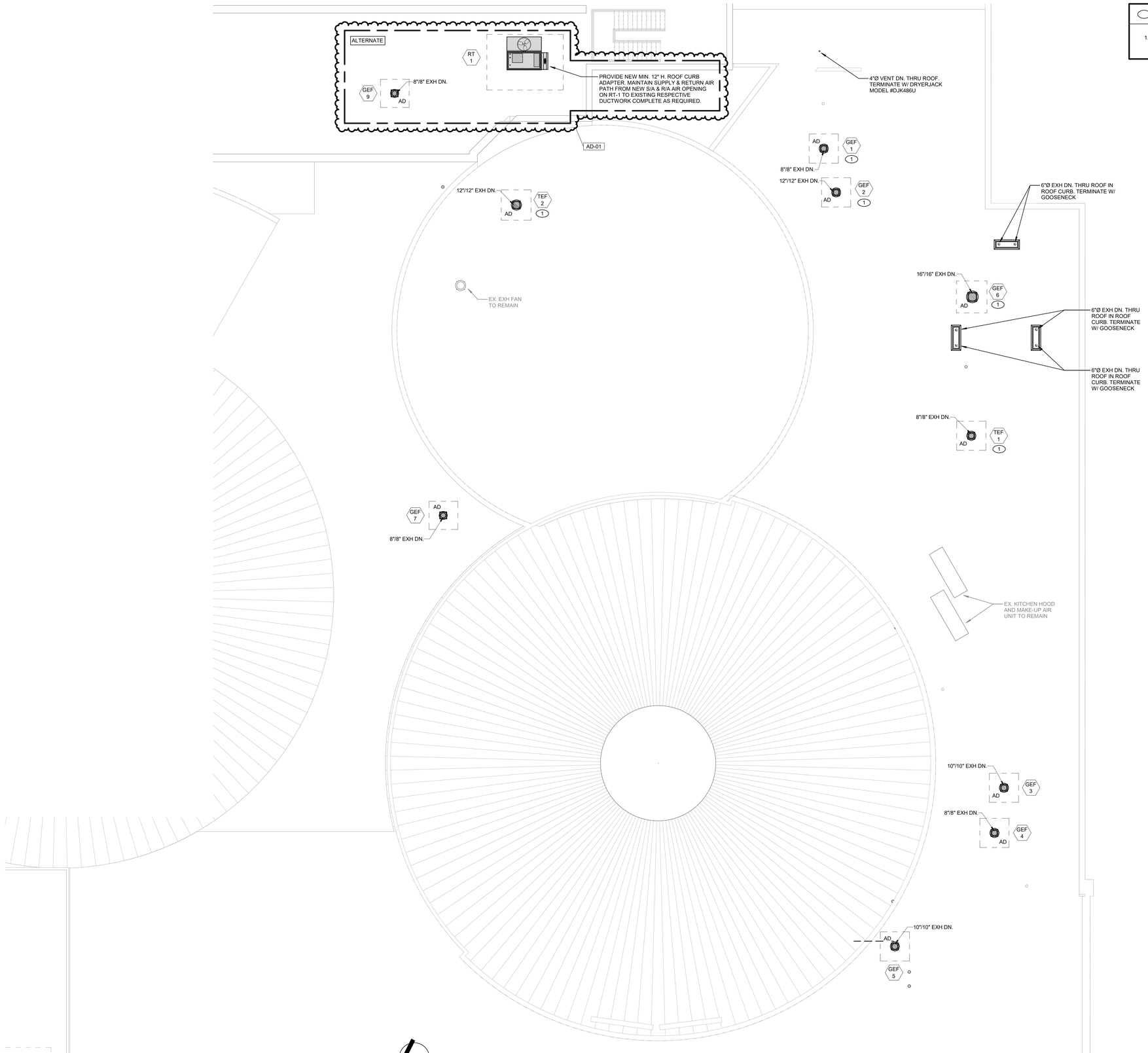
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MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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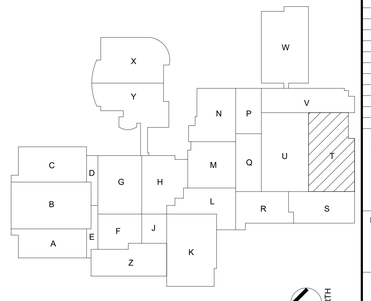
1 M-201 **UNIT "T" MECHANICAL ROOF PLAN**

1/8" = 1'-0"

NORTH

SHEET NOTES

1. EXISTING ROOF CURB TO REMAIN. PROVIDE NEW ROOF CURB ADAPTER AND MODIFY AS REQUIRED FOR NEW EXHAUST FAN INSTALLATION.



KEY PLAN

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MECHANICAL EQUIPMENT SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION	EFFICIENCY	FAN MOTOR DATA							EXHAUST FANS					DX COOLING EQUIPMENT/COIL DATA								CHILLED WATER COOLING EQUIPMENT/COIL DATA										HOT WATER HEATING EQUIPMENT/COIL DATA									ELECTRIC HEATING EQUIP./COIL DATA				ELECTRICAL DATA										UNITS CONTROLLED BY	EQUIP WEIGHT	REMARKS
					CFM	MIN. OAI CFM HIGH	MIN. OAI CFM LOW	ESP	BHP	HP	RPM	CFM	ESP	BHP	HP	RPM	MBH	SHC	EDB	EWB	LDB	LWB	CAT	STAGES	MBH	SHC	GPM	EDB	EWB	LDB	LWB	EWT	LWT	MAX APD	WPD	CFM	MBH (OUT)	GPM	EAT	LAT	EWT	LWT	MAX APD	MAX WPD	KW	EAT	LAT	STEPS	LOAD HP	MCA	FLA	MOCP	VOLT	PHASE	HZ	STARTER: PROV. BY: M.C.	STARTER: PROV. BY: E.C.			
AH-T-1	YORK	XTI-69x117	INTERIOR FLOOR MOUNTED AIR HANDLING UNIT - CHW COOLING/ HW HEATING - VAV		13100	3755		3.1	(2) @ 7.2	(2) @ 7.5	2260						595	367	117.6	79.5	67.8	53.1	52.5	42	52	5	15	13100	803	82.3	13.8	65.8	180	160	5	10					15		20.4	30	480	3	60	X		EX. FMS	5295	NOTE 1
AH-T-2	YORK	XTI-51x54	INTERIOR FLOOR MOUNTED AIR HANDLING UNIT - CHW COOLING/ HW HEATING - SZVAV		4100	1630	410	1.4	(2) @ 2.0	(2) @ 3	4038						205	133	40.6	80.9	67	50.7	49.8	42	52	5	15	4100	206	21.1	43.9	89.1	180	160	5	10					6		7.9	15	480	3	60	X		EX. FMS	2350	NOTE 1
AH-T-3	YORK	XTI-63x69	INTERIOR FLOOR MOUNTED AIR HANDLING UNIT - CHW COOLING/ HW HEATING - VAV		6450	2320		3.4	(2) @ 3.8	(2) @ 5	3520						299	190	59.4	80.4	67.2	52.9	51.5	42	52	5	15	6450	343	35.1	22.1	68	180	160	5	10					10		12.3	15	480	3	60	X		EX. FMS	3015	NOTE 1
AH-U-1	YORK	XTI-69x96	INTERIOR FLOOR MOUNTED AIR HANDLING UNIT - CHW COOLING/ HW HEATING - SZVAV		10000	2045	1000	2.8	(2) @ 3.8	(2) @ 5	2430						375	261	74	78.3	65	53.6	51.9	42	52	5	15	10000	407	41.9	55.7	93.2	180	160	5	10					10		13.7	20	480	3	60	X		EX. FMS	4196	NOTE 1
AH-U-4	YORK	XTI-45x87	INTERIOR FLOOR MOUNTED AIR HANDLING UNIT - CHW COOLING/ HW HEATING - SZVAV		6500	1880	650	1.2	(2) @ 2.6	(2) @ 5	2599						288	193	57.5	79.6	66	51.4	50.4	42	52	5	15	6500	320	32.7	49.8	94.7	180	160	5	10					10		13.7	20	480	3	60	X		EX. FMS	3219	NOTE 1
AH-U-5	YORK	XTI-48x78	INTERIOR FLOOR MOUNTED AIR HANDLING UNIT - CHW COOLING/ HW HEATING - VAV		5800	1635		3.3	(2) @ 3.8	(2) @ 5	3775						249	165	49.5	79.5	66.6	52.6	51.8	42	52	5	15	5800	363	37.3	20.7	74.6	180	160	5	10					10		12.3	15	480	3	60	X		EX. FMS	3094	NOTE 1
RT-1	AAON	RNA-006-AA-3	ROOF MOUNTED PACKAGED HVAC UNIT - DX COOLING/ ELECTRIC HEATING - SZVAV	12.6 EER	2100			1	1.3	2	1726						60	47.1	75	62	53.7	51.6	95	MOD																20	70	100.6	MOD	28	35	480	3	60	X		EX. FMS	1300	NOTE 8
GEF-1	GREENHECK	G-070-VG	ROOF MOUNTED GENERAL EXHAUST FAN									600	0.3	0.02	1/15	1460																													1.3	15	120	1	60		X	EX. FMS	45	NOTE 2
GEF-2	GREENHECK	G-090-VG	ROOF MOUNTED GENERAL EXHAUST FAN									510	0.35	0.06	1/10	1463																													1.5	15	120	1	60		X	EX. FMS	60	NOTE 2
GEF-3	GREENHECK	G-090-VG	ROOF MOUNTED GENERAL EXHAUST FAN									600	0.4	0.06	1/10	1646																													1.5	15	120	1	60		X	EX. FMS	60	NOTE 2
GEF-4	GREENHECK	G-060-VG	ROOF MOUNTED GENERAL EXHAUST FAN									100	0.3	0.02	1/15	1593																													1.3	15	120	1	60		X	EX. FMS	45	NOTE 2
GEF-5	GREENHECK	G-090-VG	ROOF MOUNTED GENERAL EXHAUST FAN									600	0.4	0.06	1/10	1646																													1.5	15	120	1	60		X	EX. FMS	60	NOTE 2
GEF-6	GREEMJECL	G-140-VG	ROOF MOUNTED GENERAL EXHAUST FAN									1200	0.3	0.13	1/4	854																													3.8	15	120	1	60		X	EX. FMS	100	NOTE 2
GEF-7	GREENHECK	G-070-VG	ROOF MOUNTED GENERAL EXHAUST FAN									290	0.3	0.03	1/15	1677																													1.3	15	120	1	60		X	EX. FMS	48	NOTE 2
GEF-8	GREENHECK	CSP-A125	INLINE GENERAL EXHAUST FAN									100	0.25	0.03		960																													0.18	15	120	1	60		X	REVERSE ACT'G TSTAT	30	NOTE 9
GEF-9	GREENHECK	G-060-VG	ROOF MOUNTED GENERAL EXHAUST FAN									100	0.25	0.01	1/15	1487																													1.3	15	120	1	60		X	REVERSE ACT'G TSTAT	45	NOTE 2
TEF-1	GREENHECK	G-060-VG	ROOF MOUNTED TOILET EXHAUST FAN									100	0.3	0.02	1/15	1593																													1.3	15	120	1	60		X	EX. FMS	45	NOTE 2
TEF-2	GREENHECK	G-120-VG	ROOF MOUNTED TOILET EXHAUST FAN									900	0.4	0.1	1/4	1033																													3.8	15	120	1	60		X	EX. FMS	90	NOTE 2
H-1	BROAN	E5490SS	RANGE HOOD									550																																	3.56	15	120	1	60	X		INTEGRAL SWITCH		NOTE 3
CH-1	VULCAN	RW-1120-08	HOT WATER SEMI-RECESSED CABINET HEATER									860			1/10	1050																				860	54.5	5.46	60		180	160						2.2	15	120	1	60	X		EX. FMS	175	NOTE 4
HC-T-2	JCI	BA0100822	DUCT MOUNTED HOT WATER REHEAT COIL																																4100	74.2	7.5	50.9	67.4	140	120	5	5													42	NOTE 5
HC-U-1	JCI	BA0100820	DUCT MOUNTED HOT WATER REHEAT COIL																																10000	175.4	17.7	53.6	69.7	140	120	5	5													75	NOTE 6
HC-U-4	JCI	BA0100820	DUCT MOUNTED HOT WATER REHEAT COIL																																6500	119.3	12.1	51.9	68.7	140	120	5	5													55	NOTE 7

AD-01

AD-01

NOTES:

1. SEE SECTIONS FOR MODULAR SECTION REQUIREMENTS. PREHEATING COIL DATA FOR VAV UNITS IS BASED ON MINIMUM OUTSIDE AIR CFM (MAXIMUM VALUE)

   PROVIDE 3" BASE RAIL FOR AH U-4. CONTRACTOR TO PROVIDE ADDITIONAL 3" BASE RAIL IN FIELD FOR APPROPRIATE CD TRAP DEPTH.

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. PROVIDE WITH:
   - DISCONNECT SWITCH
   - ECM MOTOR WITH POTENTIOMETER SPEED CONTROLLER
   - MOTORIZED DAMPER
   - BIRD SCREEN
   - ROOF CURB - SEE SHEET M-201 FOR ROOF CURB ADAPTER REQUIREMENTS.

   GEF-9 INTERLOCKED TO RT-1 — AD-01

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

3. PROVIDE WITH:
   - BACK DRAFT DAMPER
   - WASHABLE ALUMINUM FILTERS
   - LIGHT SWITCH
   - INTEGRAL EXHAUST FAN

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

4. PROVIDE WITH:
   - INTEGRAL THERMOSTAT
   - DISCONNECT SWITCH

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

5. PROVIDE WITH:
   - FIN DIMENSIONS: 42"W. x 22.5"H.
   - FLUID VELOCITY: 621 FPM

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

6. PROVIDE WITH:
   - FIN DIMENSIONS: 110"W. x 20"H.
   - FLUID VELOCITY: 654 FPM

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

7. PROVIDE WITH:
   - FIN DIMENSIONS: 72"W. x 20"H.
   - FLUID VELOCITY: 650 FPM

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

8. (ALTERNATE) PROVIDE WITH:
   - INTEGRATED ECONOMIZER WITH DIFFERENTIAL ENTHALPY SENSORS
   - FEEDBACK SIGNAL w/ IECC 2015 COMPLIANT LOW LEAK ECONOMIZER DAMPER
   - DIGITAL SCROLL (LEAD ONLY) OR VARIABLE SPEED COMPRESSORS
   - S/A & POW EXH DIRECT DRIVE FANS W/VFD
   - NON-FUSED DISCONNECT SWITCH
   - SHORT CIRCUIT RATING 35 K
   - PHASE & BROWN-OUT PROTECTION
   - HINGED ACCESS DOORS
   - VIBRATION ISOLATION CURB w/ HUSHCORE DECK DS-52 ACOUSTICAL TREATMENT
   - BAROMETRIC RELIEF
   - MODULATING SCR ELECTRIC HEAT
   - STAINLESS STEEL HEAT EXCHANGER
   - METAL MESH OUTSIDE AIR INTAKE HOOD FILTER
   - CONDENSER FAN w/VFD FOR HEAD PRESSURE CONTROL
   - SITE GLASS
   - SINGLE ZONE VAV HEATING & COOLING
   - HAIL CONDENSER COIL GUARD PROTECTION
   - SUPPLY FAN MINIMUM SPEED: 30% COOLING
   - FILTERS: 4" MERV 13 & 2" MERV 8

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. — AD-01

9. (ALTERNATE) PROVIDE WITH:
   - BUILT-IN BACKDRAFT DAMPER
   - INTEGRAL METAL GRILLE
   - VIBRATION ISOLATION HANGERS

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

VAV TERMINAL SCHEDULE - HOT WATER REHEAT

TAG	MANUFACTURER	MODEL	MIN. INLET DIA.	ZONE OA CFM	COOLING CFM MAX CFM	COOLING CFM MIN CFM	HW REHEAT COIL DATA CFM	MBH	EAT	LAT	GPM	MAX APD	MAX WPD	EWT	REMARKS
AH T-1															
T-1A	NAILOR	D30RW	16"	505	1885	505	1176	31.9	55	80	3.2	0.3	5	180	
T-1B	NAILOR	D30RW	14"	505	1585	505	1176	31.9	55	80	3.2	0.3	5	180	
T-1C	NAILOR	D30RW	16"	325	1820	325	811	30.8	55	90	3.1	0.3	5	180	
T-1D	NAILOR	D30RW	16"	325	1820	325	811	30.8	55	90	3.1	0.3	5	180	
T-1E	NAILOR	D30RW	10"	460	740	460	476	12.9	55	80	1.3	0.3	5	180	
T-1F	NAILOR	D30RW	12"	275	1260	275	608	23.1	55	90	2.3	0.3	5	180	
T-1G	NAILOR	D30RW	12"	1120	1000	455	852	23.1	55	80	2.3	0.3	5	180	
T-1H	NAILOR	D30RW	16"	530	2200	530	887	33.7	55	90	3.4	0.3	5	180	
T-1I	NAILOR	D30RW	12"	385	1220	385	608	16.5	55	80	1.7	0.3	5	180	
AH T-3															
T-3A	NAILOR	D30RW	10"	95	890	95	821	31.2	55	90	3.1	0.3	5	180	
T-3B	NAILOR	D30RW	16"	590	2200	590	1571	59.7	55	90	6	0.3	5	180	
T-3C	NAILOR	D30RW	14"	160	1370	160	1369	37.1	55	80	3.7	0.3	5	180	
T-3D	NAILOR	D30RW	16"	270	2110	270	1734	47	55	80	4.7	0.3	5	180	
AH U-5															
U-5A	NAILOR	D30RW	16"	305	2180	305	2180	59.1	55	80	5.9	0.3	5	180	
U-5B	NAILOR	D30RW	16"	680	2160	680	1277	34.7	55	80	3.5	0.3	5	180	
U-5C	NAILOR	D30RW	12"	130	1275	130	1277	34.7	55	80	3.5	0.3	5	180	
U-5D	NAILOR	D30RW	14"	520	1500	520	689	18.7	55	80	1.9	0.3	5	180	

NOTE 1: OPEN/ CLOSE/ OPEN

GAS CONNECTION SCHEDULE

TAG	QUANTITY	DESCRIPTION	LOCATION	CAPACITY PER UNIT	TOTAL CAPACITY
23	6	RANGE	CULINARY LAB 1	225	1350
23.1	1	BROILER	CULINARY LAB 1	40	40
24	2	EXISTING COMBI OVEN-STEAMER	CULINARY LAB 1	120	240
24.1	1	EXISTING COMBI OVEN-STEAMER	CULINARY LAB 1	120	120
43	1	STACKING COMBI OVEN-STEAMERS	CULINARY LAB 3	78	78
43.1	1	COMBI OVEN-STEAMER	CULINARY LAB 3	170	170
58	1	EXISTING GAS TILTING SKILLET	CULINARY LAB 1	125	125
	1	EXISTING DRYER	LAUNDRY/ CUSTODIAL	60	60
	1	RANGE	CULINARY LAB 2	120	120
	2	EXISTING DOMESTIC WATER HEATER	MECHANICAL ROOM T-001	199	398
TOTAL ADJUSTED LOAD @ 6" W.C.:					2701

GRILLE, REGISTER, & DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION	AIR PATTERN	MOUNTING	SIZE	REMARKS
A2	NAILOR	6500	SUPPLY CEILING DIFFUSER	2-WAY	2' x 2' LAY-IN PANEL	SEE PLANS	-
A4	NAILOR	6500	SUPPLY CEILING DIFFUSER	4-WAY	2' x 2' LAY-IN PANEL	SEE PLANS	-
A8	NAILOR	6500	SUPPLY CEILING DIFFUSER	3-WAY	2' x 1' LAY-IN PANEL	SEE PLANS	-
E1	NAILOR	61DH	SUPPLY CEILING REGISTER	DOUBLE DEFLECTION	2' X 1' LAY-IN PANEL		
E2	NAILOR	61DH	SUPPLY REGISTER	DOUBLE DEFLECTION	SURFACE-MOUNTED	SEE PLANS	
R1	NAILOR	6145H	RETURN/EXHAUST REGISTER	LOUVERED GRILLE	LAY-IN PANEL	SEE PLANS	-
R2	NAILOR	6145H-O	RETURN/EXHAUST REGISTER	LOUVERED GRILLE	SURFACE-MOUNTED	SEE PLANS	-
T1	NAILOR	6145H	RETURN/EXHAUST REGISTER	LOUVERED GRILLE	LAY-IN PANEL	SEE PLANS	-
T2	NAILOR	6145H	RETURN/EXHAUST/T.A. GRILLE	LOUVERED GRILLE	SURFACE-MOUNTED	SEE PLANS	-

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PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
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PROJECT
25-181
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07/14/26
COORDINATED BY
RH
DRAWN BY
RC
CHECKED BY
DJ

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

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DRAWING
MECHANICAL SCHEDULES

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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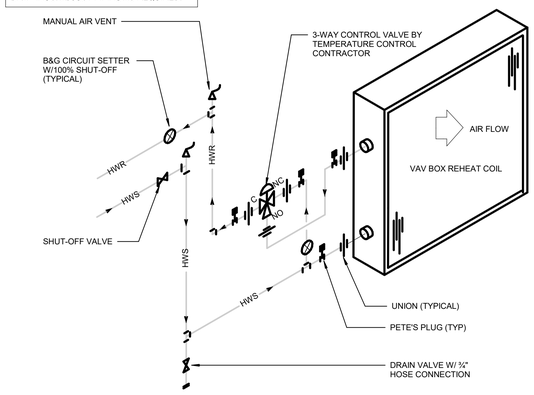
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VAV BOX REHEAT COIL PIPING DIAGRAM

(NTS)

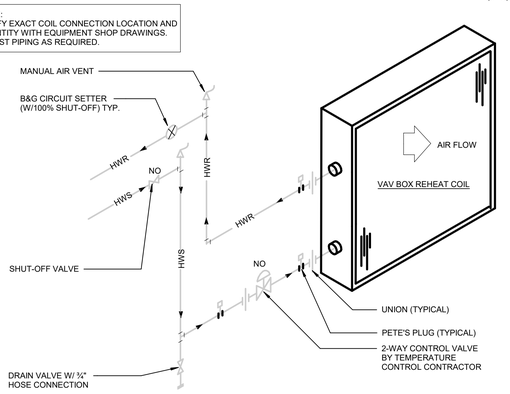
NOTE:
VERIFY EXACT COIL CONNECTION LOCATION AND QUANTITY WITH EQUIPMENT SHOP DRAWINGS. ADJUST PIPING AS REQUIRED.



VAV BOX REHEAT COIL PIPING DIAGRAM

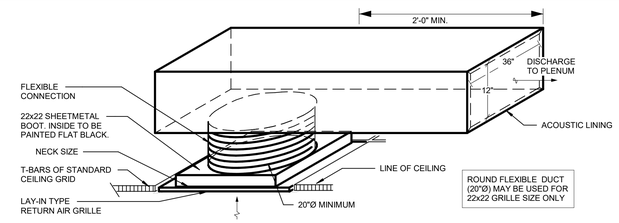
(NTS)

NOTE:
VERIFY EXACT COIL CONNECTION LOCATION AND QUANTITY WITH EQUIPMENT SHOP DRAWINGS. ADJUST PIPING AS REQUIRED.



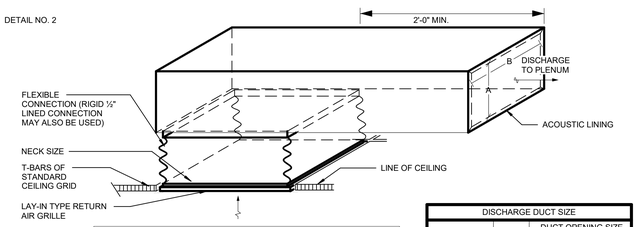
TRANSFER AIR ELBOW DETAIL

(NTS)



ROUND FLEXIBLE DUCT (20"Ø) MAY BE USED FOR 22x22 GRILLE SIZE ONLY

DETAIL NO. 2



1. REFER TO DRAWINGS FOR SIZE OF TRANSFER AIR GRILLES.
2. REFER TO "DISCHARGE DUCT SIZE" CHART FOR CORRESPONDING DUCT SIZES FOR EACH TRANSFER AIR GRILLE.
3. DETAIL NO. 1 IS FOR TRANSFER AIR GRILLE SIZES 22X22 ONLY.
4. DETAIL NO. 2 IS FOR ALL TRANSFER AIR GRILLES EXCEPT FOR 22X22.
5. PROVIDE ½"x½" WIRE MESH SCREEN AT T/A DUCT OPENING INTO PLENUM.

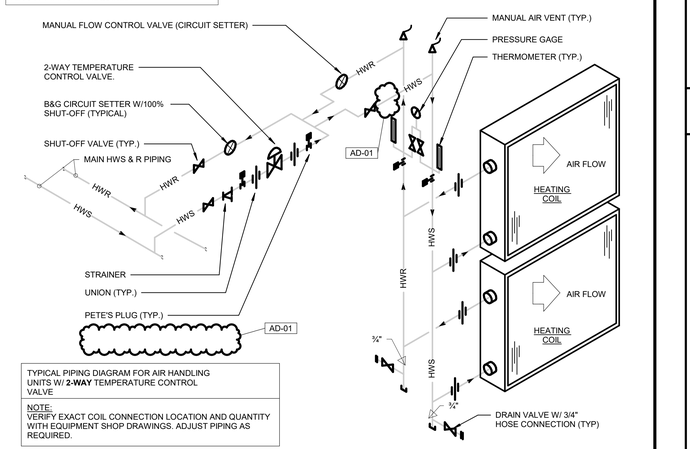
DISCHARGE DUCT SIZE

GRILLE SIZE	NECK SIZE	DUCT OPENING SIZE HEIGHT (A)	DUCT OPENING SIZE WIDTH (B)
22x6	22/6	6"	22"
22x12	22/12	12"	22"
22x22	22/22	12"	36"
24x6	24/6	6"	24"
24x12	24/12	12"	24"
24x24	24/24	12"	36"
12x12	12/18	12"	18"

HOT WATER HEATING COIL PIPING DIAGRAM

SCHEMATIC ONLY (NTS)

NOTE:
VERIFY EXACT COIL CONNECTION LOCATION AND QUANTITY WITH EQUIPMENT SHOP DRAWINGS. ADJUST PIPING AS REQUIRED.



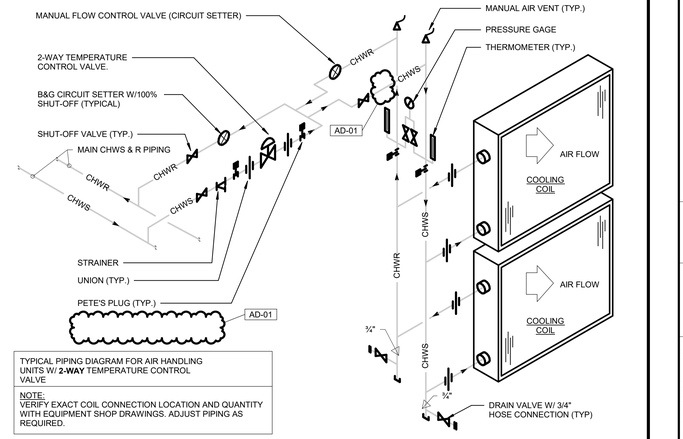
TYPICAL PIPING DIAGRAM FOR AIR HANDLING UNITS W/ **2-WAY** TEMPERATURE CONTROL VALVE

NOTE:
VERIFY EXACT COIL CONNECTION LOCATION AND QUANTITY WITH EQUIPMENT SHOP DRAWINGS. ADJUST PIPING AS REQUIRED.

CHILLED WATER HEATING COIL PIPING DIAGRAM

SCHEMATIC ONLY (NTS)

NOTE:
VERIFY EXACT COIL CONNECTION LOCATION AND QUANTITY WITH EQUIPMENT SHOP DRAWINGS. ADJUST PIPING AS REQUIRED.

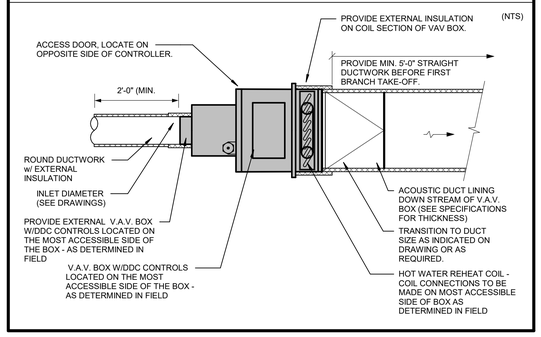


TYPICAL PIPING DIAGRAM FOR AIR HANDLING UNITS W/ **2-WAY** TEMPERATURE CONTROL VALVE

NOTE:
VERIFY EXACT COIL CONNECTION LOCATION AND QUANTITY WITH EQUIPMENT SHOP DRAWINGS. ADJUST PIPING AS REQUIRED.

TYPICAL VAV BOX DETAIL

(NTS)



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PROJECT
25-181
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07/14/26
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RH
DRAWN BY
RC
CHECKED BY
DJ

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

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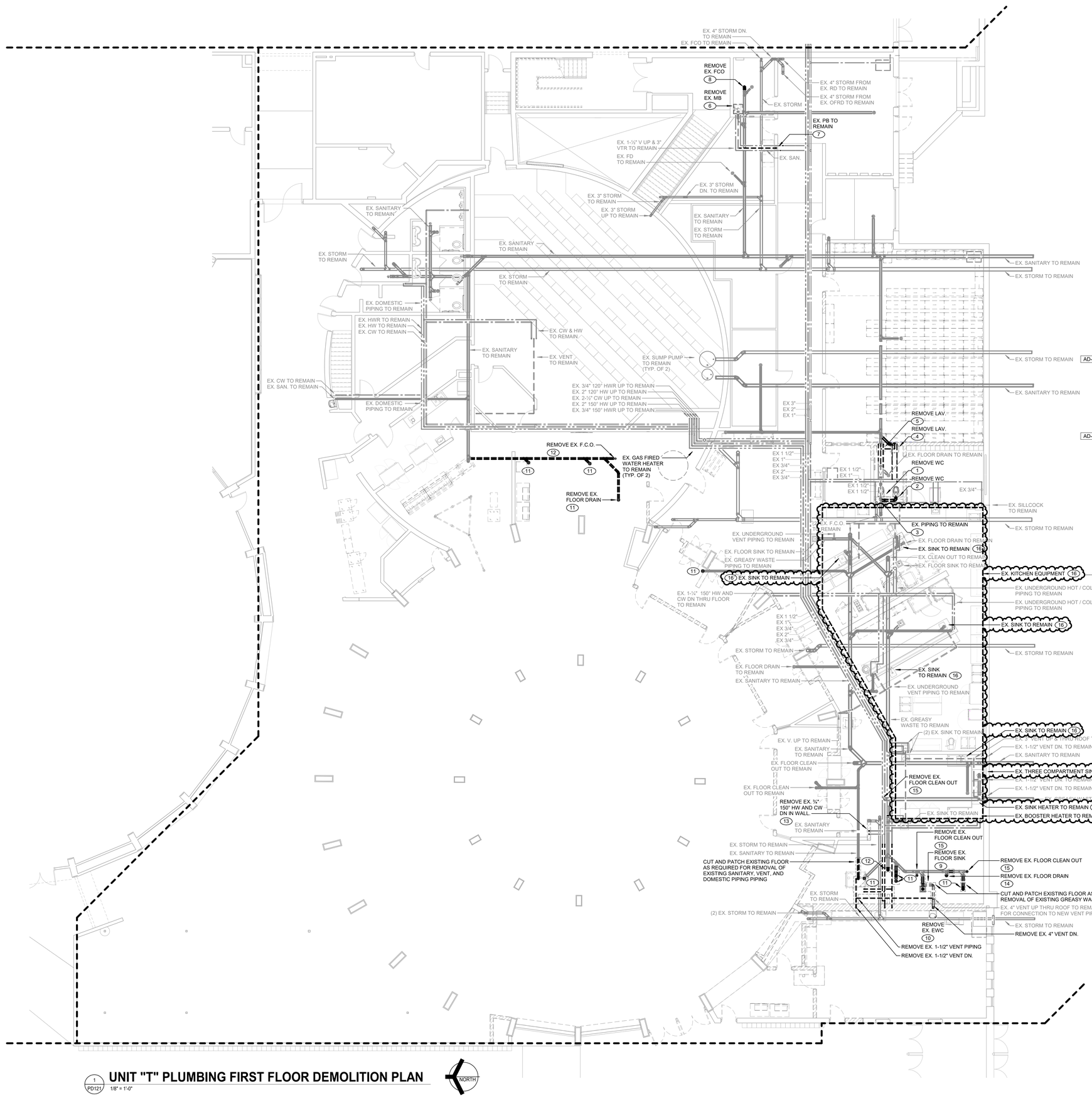
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SHEET NOTES

1. REMOVE EXISTING WATER CLOSET AND FLUSH VALVE. ALL ASSOCIATED COLD WATER AND VENT PIPING TO REMAIN FOR RECONNECTION TO NEW WATER CLOSET. REMOVE ASSOCIATED SANITARY PIPING WITHIN CHASE FLUSH WITH FLOOR. COMPLETE AS REQUIRED.
2. REMOVE EXISTING WATER CLOSET, FLUSH VALVE AND ALL ASSOCIATED COLD WATER AND VENT PIPING BACK TO MAIN. REMOVE ASSOCIATED SANITARY PIPING WITHIN CHASE FLUSH WITH FLOOR. COMPLETE AS REQUIRED.
3. EXISTING 1-½" COLD WATER, 4" SANITARY, 4" STORM DOWN, AND 4" V. UP THRU ROOF TO REMAIN FOR RECONNECTION TO NEW WATER CLOSET.
4. REMOVE EXISTING LAVATORY AND FAUCET AND ALL ASSOCIATED COLD WATER PIPING, HOT WATER PIPING, AND VENT PIPING BACK TO MAIN. REMOVE EXISTING SANITARY PIPING BACK TO MAIN. EXISTING SANITARY MAIN TO REMAIN FOR RECONNECTION TO NEW SANITARY PIPING.
5. REMOVE EXISTING LAVATORY AND FAUCET AND ALL ASSOCIATED COLD WATER PIPING, HOT WATER PIPING, AND VENT PIPING. EXISTING SANITARY PIPING TO BE CAPPED AT FLOOR AND ABANDONED. COMPLETE AS REQUIRED.
6. REMOVE EXISTING MOP BASIN AND FAUCET. ALL ASSOCIATED HOT WATER PIPING, COLD WATER PIPING, AND SANITARY TO REMAIN FOR RECONNECTION TO NEW MOP BASIN. ALL ASSOCIATED VENT PIPING TO REMAIN, MODIFY AS REQUIRED FOR ADDITIONAL VENT CONNECTION. COMPLETE AS REQUIRED.
7. EXISTING PLUMBERS BOX TO REMAIN. DISCONNECT ALL ASSOCIATED HOT AND COLD WATER PIPING AT MAIN AND ABANDON WITHIN WALL. ALL ASSOCIATED SANITARY TO REMAIN ABANDONED WITHIN WALL AND CAP PLUMBERS BOX SANITARY CONNECTION. CAP EXITING VENT PIPING WITHIN WALL AND REMOVE BACK TO MAIN. COMPLETE AS REQUIRED.
8. REMOVE EXISTING FLOOR CLEAN OUT AND ALL ASSOCIATED SANITARY. EXISTING SANITARY MAIN TO REMAIN FOR RECONNECTION TO NEW SANITARY PIPING. COMPLETE AS REQUIRED.
9. REMOVE EXISTING FLOOR SINK AND ALL ASSOCIATED VENT PIPING AND CAP EXISTING SANITARY BELOW FLOOR AIR/WATERTIGHT COMPLETE AS REQUIRED.
10. REMOVE EXISTING ELECTRIC WATER COOLER AND ALL ASSOCIATED COLD WATER, SANITARY, AND VENT PIPING. COMPLETE AS REQUIRED.
11. REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED SANITARY PIPING BACK TO MAIN AND CAP AIR/WATERTIGHT. COMPLETE AS REQUIRED.
12. REMOVE EXISTING FLOOR CLEAN OUT AND ALL ASSOCIATED SANITARY PIPING, EXPOSED WITHIN BASEMENT, BACK TO MAIN AND CAP AIR/WATERTIGHT. COMPLETE AS REQUIRED.
13. REMOVE EX. ¾" 150" HOT WATER AND ¾" COLD WATER IN WALL DN TO HOSEBIBB & CAP ABOVE WALL FOR RECONNECTION TO NEW HOSEBIBB.
14. REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED SANITARY PIPING AS REQUIRED FOR CONNECTION TO NEW FLOOR DRAIN.
15. REMOVE EXISTING FLOOR CLEAN OUT AND ALL ASSOCIATED SANITARY PIPING AS REQUIRED FOR CONNECTION TO NEW FLOOR CLEAN OUT.
16. REMOVE EXISTING KITCHEN EQUIPMENT PIPING CONNECTIONS FOR REPAIR OF EXISTING WALL. PROTECT EXISTING PIPING AND SUBMIT REPORT FOR ANY PIPING DEFICIENCIES. FIELD DETERMINE ALL LOCATIONS AND QUANTITIES

GENERAL NOTES

VIDEOTAPE EXISTING SANITARY MAIN TO CONFIRM EXISTING BRANCH SANITARY CONNECTION POINTS, INVERTS AND CONDITION OF PIPING AS REQUIRED TO COMPLETE WORK. PROVIDE REPORT INDICATING CONNECTION POINT LOCATIONS, INVERTS, AND ANY DEFICIENCIES IN EXISTING SANITARY PIPING SYSTEM PRIOR TO STARTING WORK.

1 PD121 UNIT "T" PLUMBING FIRST FLOOR DEMOLITION PLAN

1/8" = 1'-0"

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PROJECT 25-181
DATE 07/14/26
COORDINATED BY KM
DRAWN BY OK
CHECKED BY DJ

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

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DRAWING
UNIT "T" PLUMBING FIRST FLOOR DEMOLITION PLAN

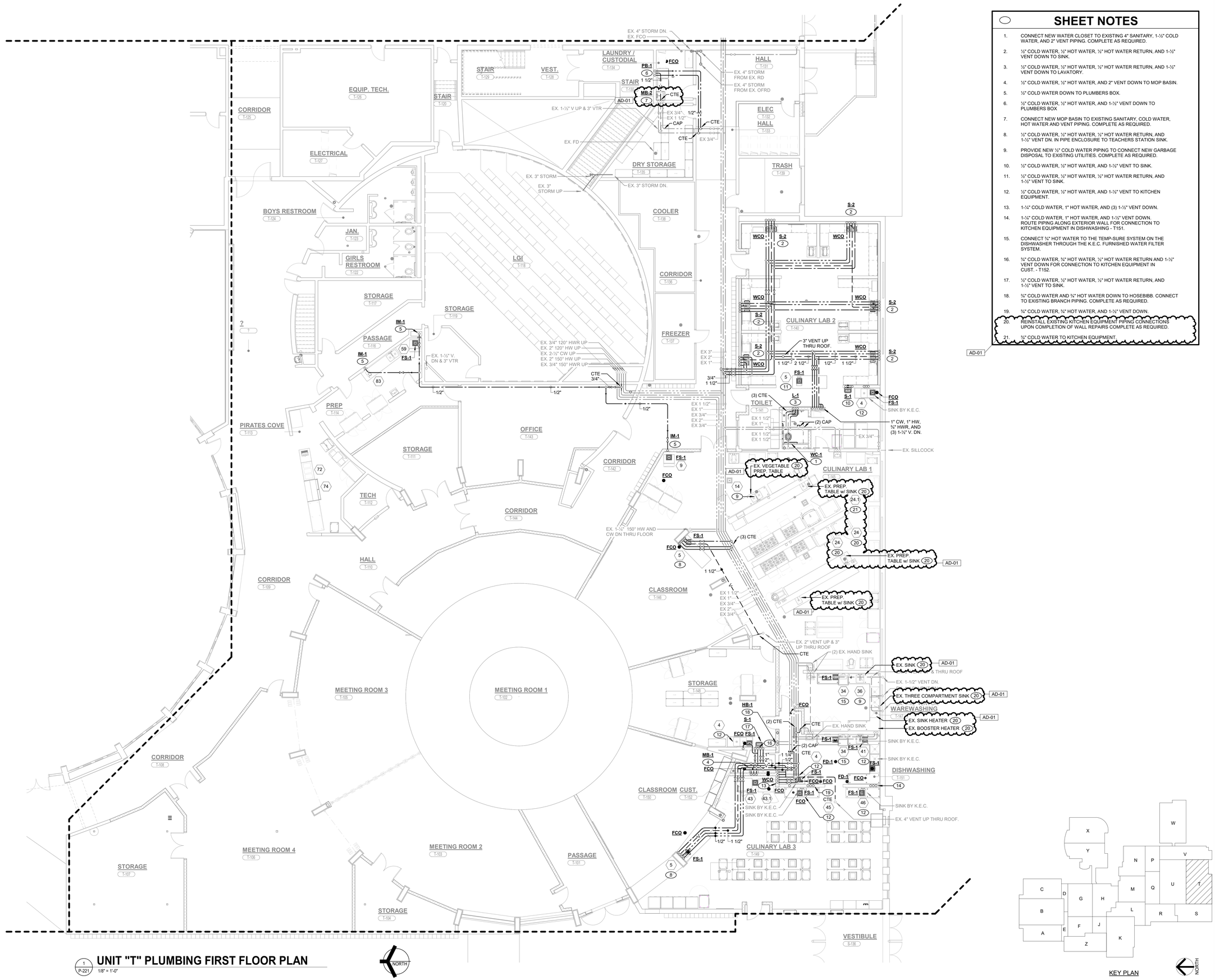
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SHEET NOTES

1. CONNECT NEW WATER CLOSET TO EXISTING 4" SANITARY, 1-½" COLD WATER, AND 2" VENT PIPING. COMPLETE AS REQUIRED.
2. ½" COLD WATER, ½" HOT WATER, ½" HOT WATER RETURN, AND 1-½" VENT DOWN TO SINK.
3. ½" COLD WATER, ½" HOT WATER, ½" HOT WATER RETURN, AND 1-½" VENT DOWN TO LAVATORY.
4. ½" COLD WATER, ½" HOT WATER, AND 2" VENT DOWN TO MOP BASIN.
5. ½" COLD WATER DOWN TO PLUMBERS BOX.
6. ½" COLD WATER, ½" HOT WATER, AND 1-½" VENT DOWN TO PLUMBERS BOX
7. CONNECT NEW MOP BASIN TO EXISTING SANITARY, COLD WATER, HOT WATER AND VENT PIPING. COMPLETE AS REQUIRED.
8. ½" COLD WATER, ½" HOT WATER, ½" HOT WATER RETURN, AND 1-½" VENT DN. IN PIPE ENCLOSURE TO TEACHERS STATION SINK.
9. PROVIDE NEW ½" COLD WATER PIPING TO CONNECT NEW GARBAGE DISPOSAL TO EXISTING UTILITIES. COMPLETE AS REQUIRED.
10. ½" COLD WATER, ½" HOT WATER, AND 1-½" VENT TO SINK.
11. ½" COLD WATER, ½" HOT WATER, ½" HOT WATER RETURN, AND 1-½" VENT TO SINK.
12. ½" COLD WATER, ½" HOT WATER, AND 1-½" VENT TO KITCHEN EQUIPMENT.
13. 1-¼" COLD WATER, 1" HOT WATER, AND (3) 1-½" VENT DOWN.
14. 1-¼" COLD WATER, 1" HOT WATER, AND 1-½" VENT DOWN. ROUTE PIPING ALONG EXTERIOR WALL FOR CONNECTION TO KITCHEN EQUIPMENT IN DISHWASHING - T151.
15. CONNECT ¾" HOT WATER TO THE TEMP-SURE SYSTEM ON THE DISHWASHER THROUGH THE K.E.C. FURNISHED WATER FILTER SYSTEM.
16. ¾" COLD WATER, ¾" HOT WATER, ½" HOT WATER RETURN AND 1-½" VENT DOWN FOR CONNECTION TO KITCHEN EQUIPMENT IN CUST. - T152.
17. ½" COLD WATER, ½" HOT WATER, ½" HOT WATER RETURN, AND 1-½" VENT TO SINK.
18. ¾" COLD WATER AND ¾" HOT WATER DOWN TO HOSEBIBB. CONNECT TO EXISTING BRANCH PIPING. COMPLETE AS REQUIRED.
19. ¾" COLD WATER, ¾" HOT WATER, AND 1-½" VENT DOWN.
20. REINSTALL EXISTING KITCHEN EQUIPMENT PIPING CONNECTIONS UPON COMPLETION OF WALL REPAIRS COMPLETE AS REQUIRED.
21. ¾" COLD WATER TO KITCHEN EQUIPMENT.

AD-01

1 P-221 **UNIT "T" PLUMBING FIRST FLOOR PLAN**
1/8" = 1'-0"

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

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DRAWING
UNIT "T" PLUMBING FIRST FLOOR PLAN

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PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE / EQUIPMENT TYPE	FIXTURE / EQUIPMENT DESCRIPTION	FIXTURE / EQUIPMENT DATA		FIXTURE VALVE / FAUCET DATA			TEMPERED WATER VALVES		ACCESSORIES/REMARKS (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)
			MANUFACTURER AND MODEL NO.	ACCEPTABLE MANUF.	TYPE	MANUFACTURER AND MODEL NO.	ACCEPTABLE MANUF.	MANUFACTURER AND MODEL NO.	ACCEPTABLE MANUF.	
WC-1	WATER CLOSET	VITREOUS CHINA, WALL MOUNTED ADA	AMERICAN STANDARD 3453.001	NOTE 1	MANUAL FLUSH VALVE, 1.6 GPF	AMERICAN STANDARD 6147161.002	NOTE 1	-	-	AMERICAN STANDARD 5901.100 SEAT
S-1	SINK	WALL MOUNTED, STAINLESS STEEL SINK, 22"x19"x5-1/2"	ELKAY ELVWO2219	NOTE 2	TWO HANDLE, 4" GOOSENECK, 1.5 GPM	ELKAY LK406GN04T4	NOTE 3	BRADLEY S59-4000A	NOTE 4	ELKAY LK35 STRAINER, MCGUIRE B8912CSDF P-TRAP, MCGUIRE LFH2167CCLK
S-2	SINK	TWO COMPARTMENT STAINLESS STEEL SINK, 31-3/4"x18-1/4"x8"	ELKAY DCFU3118	NOTE 2	SINGLE HANDLE, PULL DOWN, 1.8 GPM	ELKAY LKHA1041LS	NOTE 3	BRADLEY S59-4000A	NOTE 4	(2) ELKAY LK35 STRAINER, MCGUIRE B8912CSDF P-TRAP, MCGUIRE LFH2167CCLK
L-1	LAVATORY	VITREOUS CHINA, WALL MOUNTED, 20"x18" ADA	AMERICAN STANDARD 0355.012	NOTE 1	0.5 GPM-SINGLE LEVER HANDLE, 4" CENTERS	T&S BRASS B-2771-VF05	NOTE 3	BRADLEY S59-4000A	NOTE 4	MCGUIRE PW2150WC 1-1/2" PROWRAP, MCQUIRE LFH2167CCLK , LAVATORY CHAIR CARRIER EQUIVILENT TO ZURN Z1231EZ
MB-1	MOP BASIN	24x24x10 HIGH DENSITY COMPOSITE MOP BASIN	ZURN Z1996-24	NOTE 5	WALL MOUNTED SERVICE FAUCET	ZURN Z843M4-XL	NOTE 6	-	-	W/ 3/4" HOSE THREAD, VACUUM BREAKER, WALL BRACE
AD-01 MB-2	MOP BASIN	24x24x10 HIGH DENSITY COMPOSITE MOP BASIN	ZURN Z1996-24-WG	NOTE 5	WALL MOUNTED SERVICE FAUCET	ZURN Z843M4-XL	NOTE 6	-	-	W/ 3/4" HOSE THREAD, VACUUM BREAKER, WALL BRACE, 36" TALL STAINLESS STEEL WALL GUARD
FS-1	FLOOR SINK	CAST IRON, 6" DEEP, ABS HEADING, 12"x12" NOM	ZURN ZFSA-1342	NOTE 7						ALUMINUM DOME STRAINER, SECURED TO SUB DRAIN, SCORED TOP TO BE MOUNTED FLUSH WITH FLOOR
IM-1	PLUMBERS BOX	FOR ICE MAKER / COFFEE POT	GUY GRAY BIM875AB	NOTE 8	-	-	-	-	-	-
PB-1	PLUMBERS BOX	FOR WASHING MACHINE	GUY GRAY B200TS	NOTE 8	-	-	-	-	-	-
HB-1	HOSEBIBB	HOT & COLD, VACUUM BREAKER, 3/4" HOSE THREAD	ZURN Z1325	NOTE 9	-	-	-	-	-	-

NOTE 1: KOHLER, ZURN, SLOAN, TOTO

NOTE 2: JUST, KOHLER, ACORN, FRANKE

NOTE 3: ZURN, DELTA, SLOAN, CHICAGO FAUCET, AMERICAN STANDARD, KOHLER, T&S BRASS

NOTE 4: LEONARD, POWERS, LAWLER, SYMMONS

NOTE 5: FIAT, MUSTEE, SWAN, ACORN

NOTE 6: DELTA, T&S BRASS, CHICAGO FAUCET

NOTE 7: JOSAM, J.R. SMITH, MIFAB, WADE, WATTS

NOTE 8: WATER-TITE

NOTE 9: JOSAM, J.R. SMITH, WOODFORD, CHICAGO FAUCETS

FOOD SERVICE EQUIPMENT SCHEDULE - PLUMBING

TAG	QTY.	FIXTURE/EQUIPMENT DESCRIPTION	FIXTURE/EQUIPMENT MANUFACTURER	FIXTURE/EQUIPMENT MODEL NO.	FURNISHED BY	CONNECTION SIZES							REMARKS
						CW	HW	FILTERED	SAN	IW	BFP	BFP TAG	
4	3	VEGETABLE PREP SINK	ADVANCE TABCO	FS-2-1818-18RL		1/2"	1/2"			2"			DIVISION 22 CONNECT HW & CW TO THE FAUCET MOUNTED ON THE BACKSPLASH. EXTEND DRAIN LINE TO FLOOR SINK
5	3	DEMONSTRATION TABLE	CONOVER CUSTOM STAINLESS	-		1/2"	1/2"			1-1/2"			-
9	1	ICE MACHINE	MANITOWOC	-		1/2"	-			1"			DIVISION 22 CONNECT CW THROUGH THE K.E.C. FURNISHED WATER FILTER SYSTEM. EXTEND DRAIN LINE TO FLOOR DRAIN BELOW
14	1	DISPOSER w/ CONTROLS	INSINKERATOR	SS-200 / CC-101		1/2"	-			-			DIVISION 22 BRANCH 1/2" CW FROM FAUCET AND CONNECT TO SIDE WATER INLET ON DISPOSER
34	2	DISHWASHER, STRAIGHT	CMA	AH		-	3/4"			2"			DIVISION 22 CONNECT HW TO THE TEMP-SURE SYSTEM ON THE DISHWASHER THROUGH THE K.E.C. FURNISHED WATER FILTER SYSTEM
36	1	DISPOSER w/ CONTROLS	INSINKERATOR	SS-200 / CC-101		1/2"	-			-			DIVISION 22 BRANCH 1/2" CW FROM FAUCET AND CONNECT TO SIDE WATER INLET ON DISPOSER
41	1	UTENSIL WASHING SINK	CONOVER CUSTOM STAINLESS	-		3/4"	3/4"			2"			DIVISION 22 CONNECT HW & CW TO THE FAUCETS MOUNTED ON THE BACKSPLASH. EXTEND DRAIN LINES TO THE GREASE TRAP. GREASE TRAP PROVIDED BY DIVISION 22
43	1	STACKING COMBI OVEN-STEAMERS	ELECTROLUX	A0S062GCP2		3/4"	-			2"			DIVISION 22 CONNECT CW TO THE COMBI OVEN THROUGH THE K.E.C. FURNISHED WATER FILTER SYSTEM. EXTEND DRAIN PIPING TO THE FLOOR SINK
43.1	1	COMBI OVEN-STEAMER	RATIONAL	SCC 102G		3/4"	-			2"			DIVISION 22 CONNECT CW TO THE COMBI OVEN THROUGH THE K.E.C. FURNISHED WATER FILTER SYSTEM. EXTEND DRAIN PIPING TO THE FLOOR SINK
45	1	WORK TABLE w/ SINK	CONOVER CUSTOM STAINLESS	-		1/2"	1/2"			2"			DIVISION 22 CONNECT HW AND CW TO THE FAUCET MOUNTED ON THE BACKSPLASH. EXTEND DRAIN LINE TO FLOOR SINK
46	1	WORK TABLE w/ SINK	CONOVER CUSTOM STAINLESS	-		1/2"	1/2"			2"			DIVISION 22 CONNECT HW AND CW TO THE FAUCET MOUNTED ON THE BACKSPLASH. EXTEND DRAIN LINE TO FLOOR SINK
59	1	ICE MACHINE	MANITOWOC	-		1/2"	-			1"			DIVISION 22 CONNECT CW THRU THE K.E.C. FURNISHED WATER FILTER SYSTEM. EXTEND DRAIN LINES TO FLOOR DRAIN BELOW
72	1	HOT/COLD/FREEZE FOOD TABLE	LTI	SL-50-QSCHP-3-L		-	-			1"			DIVISION 22 EXTEND FLEXIBLE DRAIN HOSE FROM CONNECTION TO NEAREST FLOOR DRAIN
74	1	DISPLAY REFRIGERATOR	TRUE FOODSERVICE	TDM-DZ-59-GE/GE-B-W		-	-			1"			DIVISION 22 EXTEND FLEXIBLE DRAIN HOSE FROM CONNECTION TO NEAREST FLOOR DRAIN
81	1	CLOTHES WASHER	OWNER	-		1/2"	1/2"			1"			DIVISION 22 CONNECT TO THE OWNER FURNISHED CLOTHES WASHER
83	1	COFFEE BREWER	FETCO	XTS		1/2"	-			-			DIVISION 22 BRANCH 3/8" CW FROM THE SINK SUPPLY AND EXTEND TO THE COFFEE BREWER THROUGH THE K.E.C. FURNISHED WATER FILTER SYSTEM

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PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
RH
DRAWN BY
OK
CHECKED BY
DJ

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

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01

DRAWING
PLUMBING SCHEDULES

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

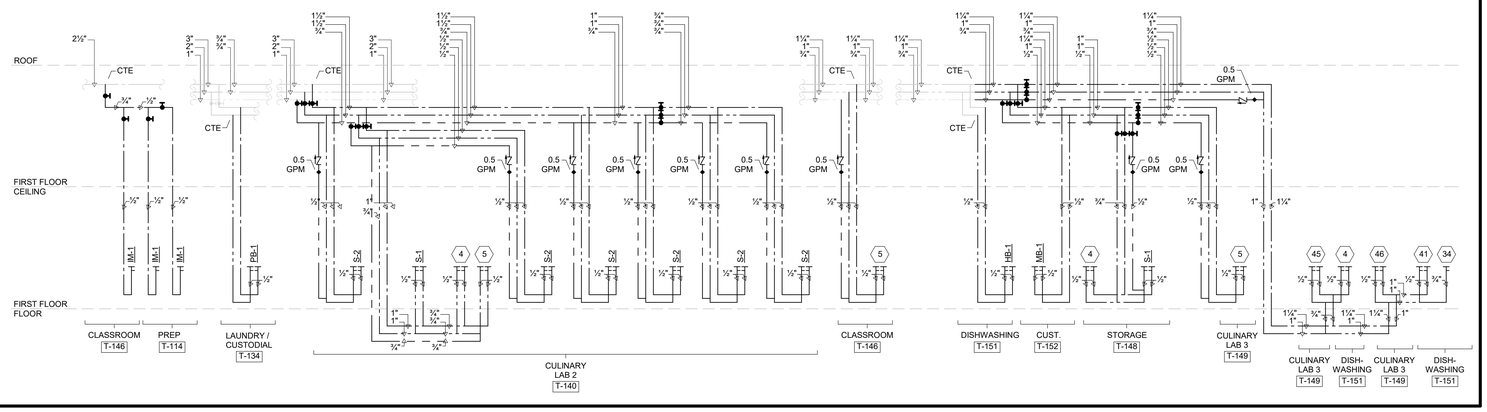
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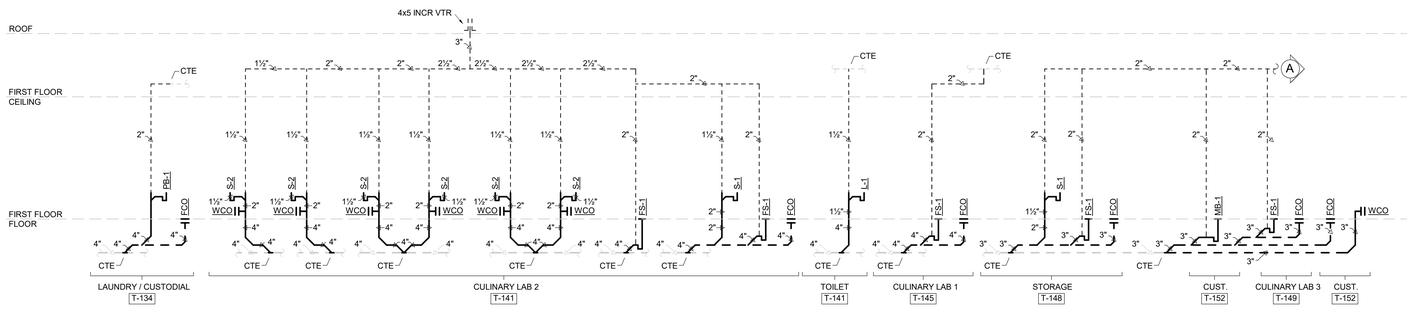
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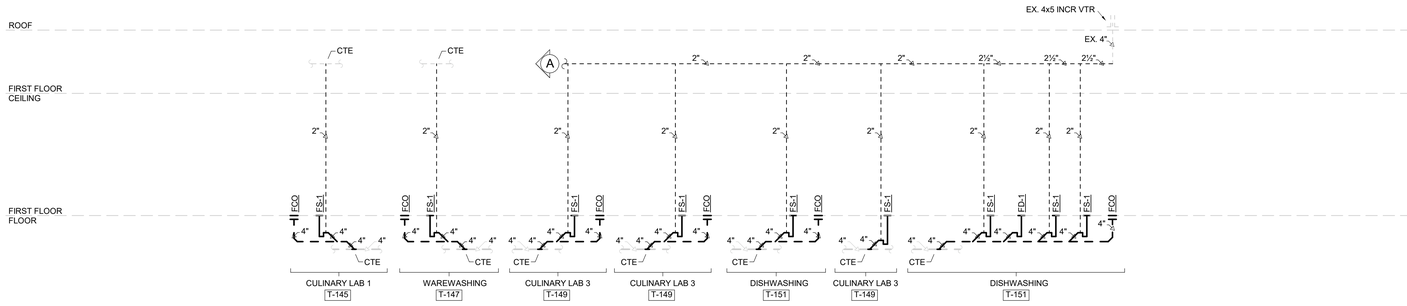
DOMESTIC RISER DIAGRAM



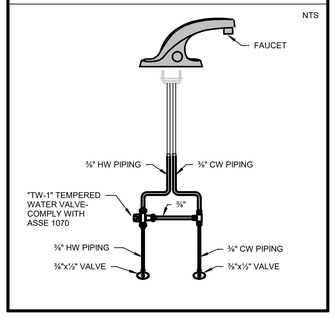
SANITARY RISER DIAGRAM



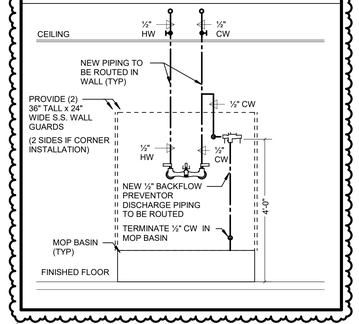
GREASY WASTE RISER DIAGRAM



LAVATORY TEMPERED WATER VALVE DIAGRAM

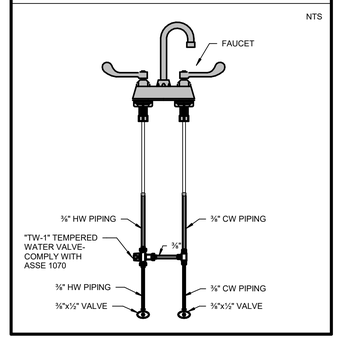


MOP BASIN/BACKFLOW PREVENTOR DETAIL



AD-01

TEMPERED WATER VALVE DIAGRAM



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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01

DRAWING
PLUMBING DETAILS & DIAGRAMS

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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GENERAL NOTES

A. WORK SHALL COMPLY WITH LOCAL, STATE AND NATIONAL ELECTRIC CODES, AND AMERICANS WITH DISABILITIES ACT.

B. THE PANEL SCHEDULES ARE PROVIDED FOR ASSISTANCE ONLY IN UNDERSTANDING THE LOADING ON THE VARIOUS CIRCUITS AND THE CIRCUIT DESIGNATIONS DESIRED FOR THE PANEL DIRECTORIES. THE PANEL SCHEDULES MUST BE BALANCED UPON COMPLETION OF THE PROJECT TO COMPLY WITH CODE. IN ADDITION, THE PANEL SCHEDULES DO NOT IDENTIFY THE TYPES OF CIRCUIT BREAKERS TO BE USED (SUCH AS GFCI, HACR, SHUNT TRIP UNITS, ETC.) NOR DO THE SCHEDULES IDENTIFY CIRCUIT BREAKERS REQUIRED, (SUCH AS CB'S FEEDING SURGE PROTECTION UNITS). REFER TO THE REST OF THE DRAWINGS AND THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND DETAILED INFORMATION.

C. COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS (VOLTAGES, PHASE, LOAD, ETC.) TO AVOID CONFLICTS.

D. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL ELECTRICAL INFORMATION AND REQUIREMENTS. IN ALL CASES DEVICE MOUNTING HEIGHTS AND LOCATIONS SHALL CONFORM TO THE LATEST AMERICANS WITH DISABILITIES FEDERAL STANDARDS.

E. EXCAVATION NECESSARY FOR COMPLETION OF WORK SHALL BE PROVIDED. COORDINATE WITH ONE ANOTHER TO SHARE TRENCHES WHEREVER POSSIBLE.

F. REFER TO THE PLANS FOR ADDITIONAL ELECTRICAL WORK AND REQUIREMENTS. FURNISH, INSTALL AND LOCATE DISCONNECT SWITCHES AT EQUIPMENT/MOTOR LOCATION, AS REQUIRED, AND IN ACCORDANCE WITH CODE. IF THE WORK OF OTHER TRADES CAUSES A LOSS OF CONTINUITY OF THE EXISTING ELECTRICAL DISTRIBUTION, GROUNDING SYSTEM OR CIRCUITRY, IT SHALL BE RECONNECTED OR REPAIRED AT NO ADDITIONAL COST.

G. FIELD VERIFY IF EXISTING ASBESTOS WILL BE ENCOUNTERED PRIOR TO STARTING ANY WORK. IF ASBESTOS IS PRESENT, THE OWNER WILL PROVIDE FOR THE REMOVAL OF ANY MATERIAL CONTAINING ASBESTOS. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS

H. COORDINATE PHASING OF WORK AND PROVIDE TEMPORARY POWER AND SERVICES AS REQUIRED FOR THE IMPLEMENTATION OF WORK WHILE MAINTAINING SERVICES TO PORTIONS OF BUILDING TO REMAIN OCCUPIED.

I. SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES, INCLUDING F/A AND OTHER SPECIAL SYSTEMS, ELECTRICAL POWER DISTRIBUTION, ETC. REQUIRED SHUTDOWN OF EXISTING FACILITY UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL.

J. LAYOUT IS DIAGRAMMATIC AND INSTALL DEVICES, CONDUIT AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS. REVIEW PROJECT SPECIFICATIONS BEFORE STARTING WORK AND SUBMIT COMPLETE SHOP DRAWINGS AS PER SPECIFICATIONS.

K. VISIT SITE PRIOR TO BID TO DETERMINE AND VERIFY EXISTING INTERIOR AND EXTERIOR ELECTRICAL SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE FULL EXTENT OF WORK. INCLUDE THE NECESSARY MODIFICATIONS TO THE EXISTING CONDITIONS (INCLUDING CEILINGS, WALLS, FLOORS, PIPES, CONDUIT, ROOF WORK, ETC.) AS REQUIRED, TO ALLOW FOR PROPER INSTALLATION OF WORK. ADJUST INSTALLATIONS TO MEET FIELD CONDITIONS AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED. EXISTING EQUIPMENT, CONDUIT, PIPING, ETC. SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK.

L. HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO ATTENTION IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL REQUIRE THE CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION TO BE COMPLETED AT NO COST. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE BROUGHT TO ATTENTION FOR REVIEW AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.

M. REMOVE AND REINSTALL EXISTING CEILINGS NOT BEING REPLACED (INCLUDING LIGHTS, MOTION SENSORS, FIRE ALARM DEVICES AND ANY OTHER ELECTRICAL DEVICES AS REQUIRED.) WHERE NECESSARY TO PERFORM WORK. THIS ALSO INCLUDES EXISTING CEILINGS OF PLASTER, DRYWALL, ETC. COORDINATE WORK IN CEILING SPACE SO AS TO MINIMIZE THE AMOUNT OF CEILINGS WHICH MUST BE REMOVED AND REINSTALLED. REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS IN ORDER TO FULLY UNDERSTAND AND INCLUDE CEILING WORK NECESSARY FOR WORK ON THE PROJECT. WHEN THE WORK IS COMPLETED IN THE SPACE, REINSTALL OR PATCH EXISTING CEILINGS, REINSTALL DEVICES AND EQUIPMENT AND REPAIR DAMAGE AS REQUIRED TO COMPLETELY MATCH EXISTING CONDITIONS. REPAIR OR REPLACE ANY DAMAGE CAUSED TO EXISTING CEILING AREAS.

N. REMOVE EXISTING CONSTRUCTION AS REQUIRED AT EXISTING WALLS, FLOORS, PIPE CHASES, SURFACES, FINISHES, ETC. WHICH ARE AFFECTED. REPAIR EXISTING SURFACES AFFECTED, TO MATCH EXISTING SURFACE OF EQUAL OR BETTER QUALITY TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

O. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. RELOCATE EXISTING LIGHTING, CONDUIT, EQUIPMENT, ETC., AS NECESSARY FOR NEW INSTALLATIONS.

P. PROVIDE NEW PANEL DIRECTORIES IN EXISTING MODIFIED PANELBOARDS AND NEW PANELBOARDS TO CORRECTLY IDENTIFY EXISTING AND NEW LOADS. FINAL DIRECTORIES SHALL BE TYPE WRITTEN.

Q. EXISTING LIGHTING FIXTURES, ELECTRICAL DEVICES, CONDUIT, ETC., SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK. EXISTING ELECTRICAL EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER AND SHALL BE PROPERLY STORED ON SITE, OR DESIGNATED TO BE ABANDONED AND REMOVED FROM SITE AS DIRECTED BY OWNER.

R. PERFORM CUTTING AND PATCHING OF EXISTING FLOOR SLABS AND WALLS AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL SYSTEMS.

S. EXISTING ELECTRICAL DEVICES (RECEPTACLES, SWITCHES, OUTLET BOXES, CONDUIT, ETC.) WITHIN WALLS TO BE REMOVED SHALL BE DISCONNECTED COMPLETELY. REROUTE AND EXTEND EXISTING CIRCUITRY, ELECTRICAL FEEDERS AND GROUNDING SYSTEMS AS REQUIRED TO MAINTAIN CIRCUIT, FEEDER AND GROUNDING SYSTEM INTEGRITY FOR ALL REMAINING DEVICES/EQUIPMENT. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.

T. WHERE NEW CIRCUIT BREAKERS, FUSES AND SWITCHES ARE TO BE ADDED TO EXISTING PANELBOARDS, SWITCHBOARDS, ETC., THEY SHALL BE OF THE SAME MANUFACTURER AND DESIGN AS THE EXISTING BREAKERS OR SWITCHES IF NOT OBSOLETE AND SHALL BE OF THE SIZES AS INDICATED. REARRANGE CIRCUIT BREAKERS WITHIN THE EXISTING EQUIPMENT TO ACCOMMODATE THE NEW CIRCUIT BREAKERS OR SWITCHES. BRANCH CIRCUIT NUMBERS ASSIGNED TO EXISTING PANELBOARDS ARE ARBITRARY AND ARE INTENDED TO INDICATE BRANCH CIRCUIT REQUIREMENTS ONLY. ACTUAL PANEL NUMBER ASSIGNMENTS FOR DESIGNATED BRANCH CIRCUITS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS. PROVIDE ADDITIONAL BUS, BUS EXTENSION, BOLTS AND HARDWARE, ENCLOSURE MODIFICATIONS, DIRECTORY MODIFICATIONS, ETC., AS REQUIRED TO ACCOMPLISH THE WORK.

U. WIRE FIXTURES IN TANDEM AS REQUIRED TO ACCOMPLISH THE SWITCHING ARRANGEMENT AS INDICATED ON DRAWINGS.

V. VERIFY CEILING STYLES/FRAMES AND TYPES BEFORE ORDERING FIXTURES AND CEILING MOUNTED DEVICES. PROVIDE APPROPRIATE STYLES/FRAMES AS REQUIRED TO MATCH CEILING STYLE AND TYPES.

W. COORDINATE LIGHTING LAYOUTS WITH CEILING REGISTERS, GRILLES, DIFFUSERS, SPRINKLER HEADS AND CEILING GRID (SEE ARCHITECTURAL REFLECTED CEILING PLAN.) VERIFY LOCATION WITH OWNER'S REPRESENTATIVE IN FIELD PRIOR TO INSTALLATION.

X. PROVIDE PLENUM RATED LIGHT FIXTURES IN PLENUM CEILING AREAS WHERE REQUIRED BY LOCAL OR NATIONAL CODES.

Y. SOME CEILING SPACES ARE RETURN AIR PLENUMS. EXAMINE PLENUM BEFORE CEILING IS INSTALLED (OR REPLACED) AND SEAL ALL OPENINGS AROUND CONDUIT, CABLE. ETC. PROVIDE PLENUM RATED CABLE (UNLESS IN CONDUIT), DEVICES AND EQUIPMENT PER CODE.

Z. AIM AND ADJUST FIXTURES WITH ADJUSTMENT CAPABILITIES (I.E. TRACK LIGHTING, HIGH BAY LIGHTING, EXTERIOR FIXTURES, ETC.) TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

AA. THE MINIMUM DISTANCE BETWEEN SMOKE OR HEAT DETECTORS AND CEILING MOUNTED SUPPLY DIFFUSERS SHALL BE A MINIMUM OF 4 FEET AND WALL MOUNTED DIFUSERS SHALL BE 10 FEET.

BB. WHERE INDICATED ON THE DRAWINGS IN UNFINISHED SPACES, RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALL.

CC. NO RACEWAYS SHALL BE INSTALLED WITHIN 6" OF STEAM, HOT WATER PIPES OR SIMILAR HEAT PRODUCING APPLIANCES.

DD. PROVIDE PULL WIRE IN EACH RACEWAY IN WHICH WIRING IS NOT INSTALLED.

EE. COVERS OF JUNCTION OR PULL BOXES SHALL BE ACCESSIBLE AND IDENTIFIED PER SPECIFICATIONS. FIRE ALARM JUNCTION BOXES SHALL BE PAINTED RED. JUNCTION OR PULL BOXES AND THE LIKE SHALL BE INDEPENDENTLY SUPPORTED TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.

FF. WIRE COLOR CODING SHALL BE COORDINATED THROUGHOUT THE ENTIRE PROJECT/BUILDING FOR NEW AND EXISTING SYSTEMS.

GG. IF MORE THAN THREE (3) PHASE (UNGROUNDED) CONDUCTORS ARE RUN IN THE SAME RACEWAY, CONDUCTOR AMPACITY SHALL BE DERATED IN ACCORDANCE WITH NEC ARTICLE 310.

HH. CONDUIT, LIGHTING, EQUIPMENT, ETC. SHALL NOT BE SUPPORTED FROM THE BOTTOM CHORD OF ENGINEERED JOISTS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. CONDUITS, ROUTED THROUGH AREAS WITH NO CEILING, SHALL BE ROUTED WITHIN THE WEBBING OF THE JOISTS AND SHALL NOT BE ROUTED BELOW THE BOTTOM CHORD OF THE JOIST.

II. SMOKE OR HEAT DETECTORS SHALL BE SURFACE MOUNTED TO CEILING, ROOF DECK MATERIALS, ETC. IN LIEU OF MOUNTING TO BOTTOM CHORD OF ENGINEERED JOIST OR ANY OTHER COMPONENTS NOT AN INTEGRAL PART OF THE HORIZONTAL CEILING.

JJ. VERIFY EXISTING AND NEW MECHANICAL, ELECTRICAL, FIRE PROTECTION SYSTEMS AND MEDICAL GAS SERVICES PRIOR TO START OF NEW CONSTRUCTION. COORDINATE AND ADJUST NEW WORK AS REQUIRED TO AVOID CONFLICTS WITH EXISTING SERVICES AND NEW SERVICES PROVIDED.

KK. PROVIDE NECESSARY ROOFING COMPONENTS COMPATIBLE WITH EXISTING ROOFING SYSTEMS TO PROVIDE A WEATHERTIGHT INSTALLATION FOR THE ROOF PENETRATIONS AND ABANDONED HOLES FROM REMOVED ITEMS. PATCH ROOF OPENINGS FOR REMOVED PIPE PENETRATIONS, WITH RIGID ROOF INSULATION AND ROOF DECK MATERIAL FROM BELOW ROOF TO MATCH EXISTING ADJACENT MATERIALS. PROPERLY STRIP ROOFING MEMBRANE, ETC. AS REQUIRED, TO MATCH EXISTING ROOF SYSTEM WITH PROPER AND COMPATIBLE MATERIALS. PROVIDE A COMPLETE AND PROPER WEATHERTIGHT CONDITION.

LL. ROOF SUPPORTS FOR CONDUITS TO BE EQUIVALENT TO PORTABLE PIPE HANGER, INC. TYPE PP-10, WITH ROLLER GUIDE SUPPORT FOR SINGLE PIPES AND CHANNEL GUIDE SUPPORT FOR MULTIPLE PIPES. SUPPORTS TO HAVE HIGH DENSITY POLYPROPYLENE PLASTIC BASE WITH THREADED RODS FOR ADJUSTABLE HEIGHT ROLLER. SUPPORTS ARE TO SIT ON TOP OF ROOFING MEMBRANE. SUPPORTS ARE TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION AND TO BE COMPATIBLE WITH AND MAINTAIN THE INTEGRITY OF THE EXISTING OR NEW ROOF SYSTEM. WHERE CONDUITS AND WIRING ARE RUN IN EXTERIOR LOCATIONS OR EXPOSED TO SUNLIGHT, CONDUCTORS SHALL BE PROPERLY UPSIZED PER NEC 310.

MM. WIRING DEVICES SHOWN BACK-TO-BACK IN WALLS SHALL BE SEPARATED BY 8" MINIMUM.

NN. UNLESS OTHERWISE NOTED, DEVICE ELEVATIONS REFER TO CENTER LINE OF JUNCTION BOX. VERIFY JUNCTION BOX LOCATIONS WITH FINAL EQUIPMENT LAYOUT PRIOR TO ROUGHING IN SAME.

OO. FURNISH AND INSTALL A GREEN GROUND WIRE IN POWER CONDUITS (NOT LIGHTING). ALL DEVICES, EQUIPMENT, FIXTURES AND THE LIKE, MUST BE GROUNDED. MECHANICAL/ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL BE MAINTAINED.

PP. PROVIDE CONDUIT AND WIRE AND MAKE FINAL POWER CONNECTIONS AS REQUIRED TO EXHAUST FANS AND MISCELLANEOUS EQUIPMENT FURNISHED WITH MOTORIZED BACKDRAFT DAMPERS. DAMPERS SHALL BE CONNECTED TO EQUIPMENT 120 VOLT POWER CIRCUIT SO AS TO INTERLOCK THE MOTORIZED DAMPER WITH THE EXHAUST FAN. FOR THREE PHASE MOTORS, PROVIDE AN ADDITIONAL 120 VOLT CIRCUIT ROUTED THROUGH AN AUXILIARY CONTACT IN THE MOTOR STARTER.

QQ. AT NEW FIRE OR SMOKE/FIRE DAMPER LOCATIONS, WIRE EACH SMOKE/FIRE DAMPER TO NEAREST EMERGENCY PANEL, TO LOCAL ACTIVATION SMOKE DETECTORS ON EITHER SIDE OF THE DAMPER (WITHIN 3'-0") AND ALSO WIRE THE SAME TO THE FIRE ALARM CONTROL PANEL AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR LOCATIONS WHERE DUCTS PASS THROUGH SMOKE OR FIRE BARRIERS.

RR. MODIFY EXISTING FIRE ALARM SYSTEM AS INDICATED ON DRAWINGS AND SPECIFICATIONS AND AS REQUIRED FOR A COMPLETE, CODE COMPLIANT INSTALLATION. PROVIDE ADDITIONAL PARTS, ACCESSORIES AND CARDS AS REQUIRED TO COMPLETE THE WORK. FURNISH AND INSTALL INTERFACE WIRING INTEGRAL TO THE FIRE ALARM SYSTEM AS WELL AS INTERFACE TO NEW ELEVATOR CONTROL PANEL, BUILDING AUTOMATION SYSTEM, ETC. FOR A COMPLETE AND OPERATING INSTALLATION. 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. QUESTIONS REGARDING THE REQUIREMENTS OF THE FIRE ALARM SYSTEM OR THE INTENT OF THE CODE SHALL BE DIRECTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO BID.

SS. FURNISH AND INSTALL SIX (6) 20 AMP. CIRCUITS WITH RECEPTACLES, CONDUIT, WIRE, PLATES, BOXES AND BREAKERS CONNECTED WITH THREE (3) #10, ONE (1) #12 GROUND IN 1" CONDUIT LOCATED WITHIN 120 FEET (AVERAGE) OF NEAREST 208/120 PANELBOARD. INCLUDE ALL NECESSARY CUTTING AND PATCHING. LOCATIONS OF OUTLETS SHALL BE WHEN, WHERE AND AS DIRECTED.

TT. WIRE COMPLETE, AS DIRECTED, TWO (2) ADDITIONAL MOTORS AND SINGLE POLE FUSIBLE DISCONNECTS WITH THREE (3) #12 IN 3/4" CONDUIT 120 FEET (AVERAGE) EACH CIRCUIT.

UU. PROVIDE AND WIRE COMPLETE, WHERE DIRECTED TWO (2) ADDITIONAL EXIT SIGNS (XB-1 OR XB-2) TO NEAREST LIGHTING CIRCUIT IN SAME AREA. CONNECT WITH THREE (3) #12 WIRE IN 3/4" CONDUIT.

VV. CONDUIT INSTALLED FOR LOW VOLTAGE SYSTEMS SHALL BE COORDINATED WITH THE LOW VOLTAGE INSTALLER IN FIELD, PRIOR TO ROUGH-IN. SUCH CONDUIT SHALL BE ROUTED TO MINIMIZE CABLE LENGTH AND COMPLY WITH LOW VOLTAGE CABLING DISTANCE LIMITATIONS.

WW. THE FLASH RATES FOR FIRE ALARM STROBES SHALL BE SYNCHRONIZED, COORDINATE ADDITIONAL REQUIREMENTS WITH NFPA 72.

XX. REWORK EXISTING ELECTRICAL FEEDERS, CONDUIT AND LOW VOLTAGE WIRING AS REQUIRED FOR INSTALLATION OF NEW STRUCTURAL COMPONENTS REQUIRED TO SUPPORT NEW ROOF MOUNTED EQUIPMENT. FURNISH AND INSTALL ALL CONDUIT, WIRING AND SPLICE BOXES TO MAINTAIN CONTINUITY.

YY. SINGLE POLE CIRCUITS SHALL HAVE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS (NON-NETWORKED), WHICH (PER CODE) ARE CONSIDERED CURRENT CARRYING CONDUCTORS. THEREFORE, IF MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE RUN IN THE SAME RACEWAY, CONDUCTOR AMPACITY SHALL BE DERATED IN ACCORDANCE WITH NEC ARTICLE 310. AS SUCH, MULTIPLE BRANCH CIRCUIT HOME RUNS SHALL, AT A MINIMUM, UTILIZE #10 AWG CONDUCTORS TO COMPLY WITH REQUIREMENTS HEREIN. COORDINATE REQUIREMENTS IN FIELD WITH SPECIFIC HOME RUN CONFIGURATION AND NEC 2008.

ZZ. PRIOR TO THE START OF WORK AND THE ORDERING OF EQUIPMENT, CONTRACTOR SHALL CAREFULLY MEASURE AND VERIFY THE VOLTAGE, PHASE AND WIRING CONFIGURATION OF EXISTING PANELS AND EXISTING GEAR THAT ARE PART OF WORK AND SHALL CAREFULLY VERIFY THAT ALL ELECTRICAL CONNECTIONS, GEAR AND EQUIPMENT HAVE BEEN CAREFULLY COORDINATED TO ELIMINATE CONFLICTS. COORDINATE WITH OTHER TRADES AS REQUIRED TO ELIMINATE ELECTRICAL CONFLICTS PRIOR TO START OF WORK.

AAA. CAREFULLY VERIFY COLOR TEMPERATURES OF FIXTURES WITH ARCHITECT PRIOR TO ORDERING.

ABBREVIATIONS LIST

A	AMPS	J	JUNCTION BOX
AC	AIR CONDITIONING	KVA	KILOVOLT AMPERE
AFF	ABOVE FINISHED FLOOR	KW	KILOWATTS
AFG	ABOVE FINISHED GRADE	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
BRKR	BREAKER	LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT
C	CONDUIT	MECH	MECHANICAL
CH	CABINET HEATER	MTD	MOUNTED
CKT	CIRCUIT	NE	NEW LOCATION OF EXISTING RELOCATED DEVICE
DISTR	DISTRIBUTION	NIC	NOT IN CONTRACT
EF	EXHAUST FAN	NL	NIGHTLIGHT
ELEC	ELECTRICAL	NTS	NOT TO SCALE
EM	EMERGENCY	O/C	ON CENTER
EMT	ELECTRICAL METALLIC TUBING	P	POLE
ER	EXISTING DEVICE TO BE REMOVED	PNL	PANEL
EX	EXISTING DEVICE TO REMAIN	PH	PHASE
F	FUSE	RR	REMOVE AND RELOCATE EXISTING DEVICE
F&I	FURNISH AND INSTALL	SW	SWITCH
FS	FUSIBLE SWITCH	TYP	TYPICAL
FVNR	FULL VOLTAGE, NON-REVERSING STARTER	UON	UNLESS OTHERWISE NOTED
G	GROUND	V	VOLTS
GFI	GROUND FAULT INTERRUPTING PROTECTION	VIF	VERIFY IN FIELD
GRC	GALVANIZED RIGID CONDUIT	W	WATTS
HP	HORSEPOWER	WP	WEATHERPROOF TYPE DEVICE
		WG	WIRE GUARD

SYMBOL LIST

EQUIPMENT AND WIRING

- JUNCTION BOX - SIZE AND TYPE AS REQUIRED.
- 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
- T — TRANSFORMER - SIZE AND TYPE AS REQUIRED
- SPD — 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 #1 — HOMERUN TO PANEL INDICATING PANEL AND CIRCUIT BREAKER NUMBER WITHIN THE PANEL.
- INDICATES NUMBER OF CONDUCTORS IN CONDUIT (CONTRACTOR SHALL VERIFY AND INSTALL ADDITIONAL WHERE REQUIRED) CROSS HATCHED INDICATES NUMBER OF CONDUCTORS (HOT OR SWITCHED LEG, NEUTRAL, GROUND)
- WM — WIRE MOLD SURFACE RACEWAY COMPLETE WITH ALL ACCESSORIES
- WIREMOLD #V4000 RACEWAY VERTICAL RISER. SEE DETAIL
- ALL DEVICES INDICATED WITH SHADED BOX BASE TO BE SURFACE MOUNTED TO THE EXISTING WALL ON WIREMOLD #V2000 OR EQUAL IF SINGLE SERVICE, OR WIREMOLD #4000 IF DUAL SERVICES

SECURITY

- CA — CARD ACCESS CONTROLLER -REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
- L — ELECTRIC DOOR STRIKE - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
- SURVEILLANCE CAMERA - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
- SURVEILLANCE CAMERA - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
- DC — SECURITY SYSTEM DOOR CONTACT - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
- EXTERIOR 180 DEGREE SURVEILLANCE CAMERA - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
- DIS — DISPLAY CAMERA - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

AD-01

COMMUNICATIONS

- S — CEILING SPEAKERS - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
- DUPLEX DATA OUTLET - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
- CLK — WALL MOUNTED DIGITAL CLOCK/SPEAKER UNIT- REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION
- WT — DUPLEX DATA OUTLET FOR WIRELESS ACCESS POINTS - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
- INTERCOM PRIVACY CALL-IN SWITCH - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
- WH — CARD ACCESS WIRELESS HUB - REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

LIGHTING

- EMERGENCY BATTERY LIGHT MOUNTED 7'-6" AF (OR AS NOTED)
- REMOTE EMERGENCY BATTERY LIGHT MOUNTED 7'-6" AF (OR AS NOTED)
- FIXTURE ON EMERGENCY CIRCUIT (EM/NL) WITH 90 MINUTE, FULL LUMEN OUTPUT BATTERY UNIT OR INVERTER. BODINE #B30 (FLUORESCENT), BODINE FACTORY INSTALLED DRIVER (LED) OR MYERS #LV SERIES INVERTER (FLUORESCENT OR LED). REMOTE MOUNT IN ACCESSIBLE CEILINGS WHERE INTERNAL INSTALLATION IS NOT POSSIBLE (PROVIDE TEST SWITCH & ALL NECESSARY APPURTENANCES).

SWITCHING

- TP — TOUCH SCREEN CONTROL FOR LIGHTING SCENE SELECTOR - nPOD nTS OR EQUAL BY COOPER OR HUBBELL CONTROLS.
- MO — CLASSROOM LIGHTING OVERRIDE SWITCH - 120V TOGGLE SWITCH TO OVERRIDE ALL LIGHTING CONTROLS IN THE CLASSROOMS TO ALLOW LIGHTING SHUT OFF WITHOUT AUTOMATIC ON UNTIL THIS SWITCH HAS BEEN TOGGLED 'ON'
- NETWORKED LOW VOLTAGE SWITCH MTD 42" AFF: N-LIGHT N-PODM SERIES OR EQUAL BY COOPER OR HUBBELL CONTROLS.
- 3 — NETWORKED 3-WAY LOW VOLTAGE SWITCH MTD 42" AFF: N-LIGHT N-PODM SERIES WITH 3-WAY CAPABILITY OR EQUAL BY COOPER OR HUBBELL CONTROLS.
- M1 — FURNISH AND INSTALL NETWORKED WALL SWITCH DUAL TECHNOLOGY OCCUPANCY SENSOR MTD 42" AFF: N-LIGHT #NWSX-PDT-LV OR APPROVED EQUAL BY COOPER OR HUBBELL CONTROLS.
- WALL MOUNTED NETWORKED DIMMER SWITCH MTD 42" AFF: N-LIGHT, COOPER OR HUBBELL CONTROLS. VERIFY SUITABILITY OF DIMMER WITH FIXTURE MANUFACTURER PRIOR TO ORDERING.
- M3 — FURNISH AND INSTALL NETWORKED CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR: N-LIGHT #NCM-PDT-10 (WITH MICROPHONICS) OR APPROVED EQUAL BY COOPER OR HUBBELL CONTROLS.
- 4 — NETWORKED FOUR WAY LOW VOLTAGE SWITCH MTD. 42" AFF: N-LIGHT N-PODM SERIES WITH 4-WAY CAPABILITY OR EQUAL BY COOPER OR HUBBELL CONTROLS.
- K — KEY OPERATED TOGGLE TYPE SWITCH (HUBBELL #HBL1221L OR EQUAL)

FIRE ALARM

NOTE:
- FIRE ALARM DEVICES, MOUNTING HEIGHT, ETC. SHALL COMPLY WITH 'ADA' STANDARDS.

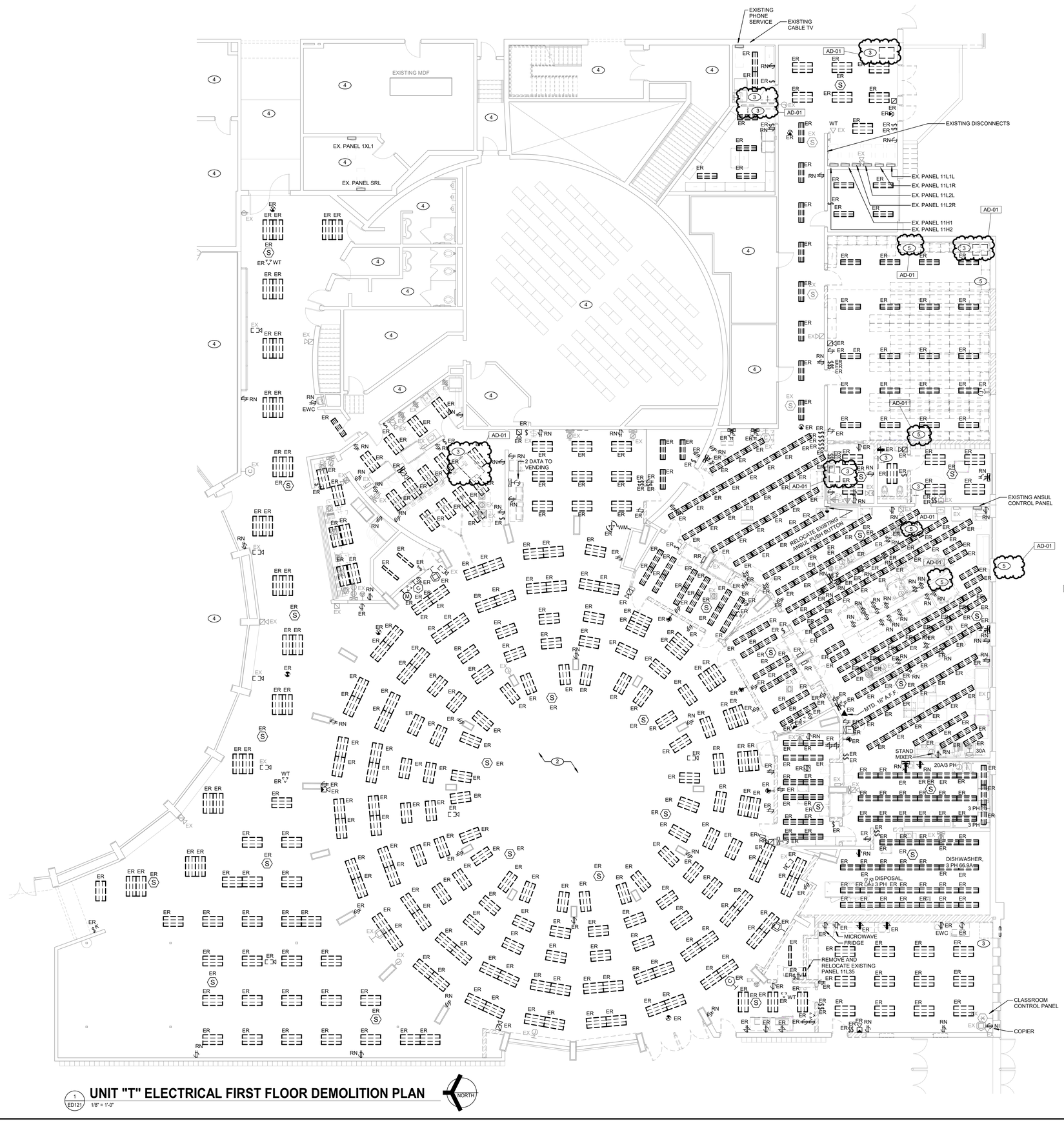
- FACP — FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR PANEL
- SD — FIRE ALARM SYSTEM DUCT TYPE SMOKE DETECTOR WIRED TO CONTROL LOCAL FAN SHUT DOWN RELAY - DUCT DETECTOR TO BE MOUNTED IN AIR DUCT SYSTEM AND WIRED PER MANUFACTURER'S RECOMMENDATIONS AND NFPA 72 (D)
- COD — ADDRESSABLE CARBON MONOXIDE DETECTOR FOR ROOFTOP UNIT TO BE INSTALLED IN DUCT. DEVICE SHALL BE FULLY COMPATIBLE AND U.L. LISTED FOR USE WITH NEW FACP. AT CONTRACTOR'S OPTION, CONTRACTOR SHALL PROVIDE U.L. LISTED ADDRESSABLE CARBON MONOXIDE UNITS LISTED FOR USE WITH NEW FACP LOCATED WITHIN 20' OF ROOFTOP AND IN EVERY SPACE SERVED BY ROOFTOP. COMPLETE AS REQUIRED.
- FIRE ALARM PULL STATION MTD 42"AFF.
- FIRE ALARM AUDIO/VISUAL DEVICE MTD. 80" A.F. OR 6" BELOW FINISHED CEILING WHICHEVER IS LOWER. - 110 CANDELA
- FIRE ALARM STROBE ONLY MTD 80" AFF. - 15 CANDELA
- FIRE ALARM STROBE ONLY MTD 80" AFF. - 75 CANDELA
- FIRE ALARM STROBE ONLY MTD 80" AFF. - 110 CANDELA
- FIRE ALARM STROBE ONLY MTD 80" AFF.
- D — FIRE ALARM SYSTEM HEAT DETECTOR - COMBINATION TYPE (R/R - FIXED TEMP.) IN BOILER ROOM
- SD — FIRE ALARM SYSTEM SMOKE DETECTOR - CEILING MOUNTED - ABOVE FACP
- CO — FURNISH AND INSTALL DIGITAL CARBON MONOXIDE SENSING PROBES - MSA Z GARD S SENSORS OR APPROVED EQUAL WITH 3/4"C. AND WIRING ROUTED TO CARBON MONOXIDE CONTROL PANEL. COORDINATE REQUIREMENTS WITH MANUFACTURER AND SPECIFICATIONS. MOUNT UNIT AT 48" A.F.F.

SHEET SYMBOLS

- X/X — HEXAGON TAG REFERENCE TO EQUIPMENT CONNECTION SCHEDULE
- X — HEXAGON TAG REFERENCE TO KITCHEN EQUIPMENT CONNECTION SCHEDULE
- 1 — ELLIPSE TAG REFERENCE TO SHEET NOTES
- TWO DEVICE MOUNTED UNDER COMMON COVER. WHERE LOW VOLTAGE DEVICES ARE MOUNTED UNDER COMMON COVER, COMBINE CONDUIT STUBS MAINTAINING THE EQUIVALENT FREE AREA FOR THE LOW VOLTAGE CABLING.
- 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. TO PROVIDE TRIM PLATES, EXTENSION RINGS, ETC. AS REQUIRED TO MOUNT NEW DEVICE AS INDICATED.
- NI — F/I 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.

AD-01

- 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 IN



1 ED121 **UNIT "T" ELECTRICAL FIRST FLOOR DEMOLITION PLAN**

1/8" = 1'-0"

NORTH

DEMOLITION NOTES

A. COORDINATE PHASING OF WORK AND PROVIDE TEMPORARY POWER AND SERVICES AS REQUIRED FOR THE IMPLEMENTATION OF ALL WORK WHILE MAINTAINING SERVICES TO PORTIONS OF BUILDING TO REMAIN OCCUPIED.

B. DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICES, EQUIPMENT, LIGHTING, WIRING, ETC., AS REQUIRED TO FACILITATE DEMOLITION AND RECONSTRUCTION WORK. COORDINATE WITH GENERAL CONSTRUCTION. THE CONTRACTOR IS HEREBY ADVISED THAT THESE DRAWINGS MAY NOT INDICATE ALL EXISTING WIRING AND/OR EQUIPMENT WHICH MUST BE REMOVED, REWORKED, RELOCATED, ETC., TO ACCOMMODATE DEMOLITION AND RECONSTRUCTION WORK IN THE EXISTING BUILDING.

C. SCHEDULE ALL WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES, INCLUDING F/A AND OTHER SPECIAL SYSTEMS, ELECTRICAL POWER DISTRIBUTION, ETC. ALL REQUIRED SHUTDOWN OF EXISTING FACILITY UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL.

D. ALL EXISTING EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER AND OWNER SHALL DETERMINE IF CONTRACTOR IS TO STORE EQUIPMENT ON SITE AT OWNER SELECTED LOCATION OR IF CONTRACTOR IS TO ABANDON OR REMOVE EQUIPMENT FROM SITE.

E. CONTRACTOR TO FIELD VERIFY IF EXISTING ASBESTOS WILL BE ENCOUNTERED PRIOR TO STARTING ANY WORK. IF ASBESTOS IS PRESENT, THE OWNER WILL PROVIDE FOR THE REMOVAL OF ANY MATERIAL CONTAINING ASBESTOS. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS

F. ANY HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR ANY AND ALL REQUIRED CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION.

G. EXISTING INFORMATION IDENTIFIED ON THE CONTRACT DOCUMENTS IS SCHEMATIC ONLY AS AN AID TO THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY ADDRESS ALL EXISTING CONDITIONS FOR A COMPLETE AND PROPER INSTALLATION OF NEW SYSTEMS. ALL EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR REVIEW AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.

H. DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES AND ANY OTHER CEILING DEVICES AS REQUIRED FOR INSTALLATION OF WORK (ALL TRADES). REINSTALL UPON COMPLETION OF WORK. REPAIR ALL DAMAGED FIXTURES AND DEVICES.

I. VISIT SITE PRIOR TO BIDDING TO DETERMINE ALL FIELD CONDITIONS. VERIFY ALL EXISTING INTERIOR AND EXTERIOR ELECTRICAL SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE FULL EXTENT OF DEMOLITION WORK.

J. ALL EXISTING LIGHTING FIXTURES, ELECTRICAL DEVICES, CONDUIT, ETC., SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK. ALL EXISTING ELECTRICAL EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER AND SHALL BE PROPERLY STORED ON SITE, OR DESIGNATED TO BE ABANDONED AND REMOVED FROM SITE AS DIRECTED BY OWNER.

K. EXISTING ELECTRICAL DEVICES (RECEPTACLES, SWITCHES, OUTLET BOXES, CONDUIT, ETC.) WITHIN WALLS TO BE REMOVED SHALL BE DISCONNECTED COMPLETELY. REROUTE CIRCUITRY AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL REMAINING DEVICES/EQUIPMENT. VERIFY EXACT CONDITIONS AND QUANTITIES IN FIELD.

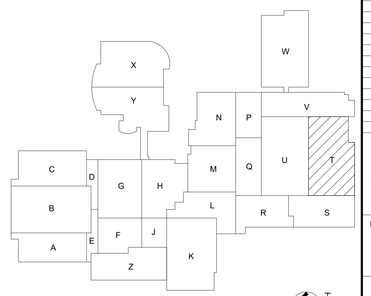
L. PATCH ALL EXISTING CEILING, FLOOR, WALL AND ROOF OPENINGS AND SURROUNDING FINISHES RESULTING FROM REMOVAL OF EXISTING MATERIALS AND EQUIPMENT SO THAT FINISH WILL MATCH EXISTING IN SURROUNDING AREAS.

SHEET NOTES

1. EXISTING MECHANICAL EQUIPMENT TO REMAIN.
2. REMOVE ALL EXISTING FIXTURES IN EXISTING SOFFIT AND DOME. VERIFY EXACT LENGTHS AND LOCATION IN FIELD WHEN REMOVED.
3. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. REMOVE ALL ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE, COMPLETE AS REQUIRED. LABEL EXISTING BREAKERS AS SPARE.
4. EXISTING LIGHTING IN THIS SPACE TO REMAIN.
5. FOR DEVICES WITH 'RN' TAG ON THIS WALL WITH EXISTING SURFACE RACEWAY, SALVAGE AND REINSTALL EXISTING RACE WAY FOR NEWLY INSTALLED ELECTRICAL FIXTURE. COMPLETE AS REQUIRED.

GENERAL NOTES

1. DISCONNECT AND REMOVE ALL EXISTING LIGHTING UNLESS OTHERSIE NOTED(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 SWITCHING SHOWN ON THE ELECTRICAL LIGHTING PLAN.
2. EXISTING EXTERIOR LIGHTING TO REMAIN.



KEY PLAN

NORTH

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PROJECT 25-181
DATE 07/14/26
COORDINATED BY RH
DRAWN BY BR
CHECKED BY DJ

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

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01

DRAWING
UNIT "T" ELECTRICAL FIRST FLOOR DEMOLITION PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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SHEET NOTES

1. LIGHTING IN EACH SECTION OF THE MEETING ROOM SHALL BE CONNECTED TO THE LOCAL SWITCHES, MASTER TOUCH SCREEN, AND DIVIDER PANEL SENSORS (SHOWN ON POWER SHEET) AS REQUIRED TO INDIVIDUALLY CONTROL EACH SPACE OR CONTROL THE ENTIRE SPACE FROM THE MAIN TOUCH SCREEN.
2. NEW MASTER TOUCH SCREEN CONTROL PANEL FOR MEETING AREA. CONNECT TO NEW DIVIDER SENSOR SWITCHES, SHOWN ON SHEET EP121.
3. ALL CONDUIT SHALL BE CONCEALED AND NOT VISIBLE FROM BELOW FOR FIXTURES IN THIS SPACE.
4. EXISTING LIGHTING IN THIS SPACE TO REMAIN.

GENERAL NOTES

1. RECONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUITRY AND NEW SWITCHING DEVICES, COMPLETE AS REQUIRED, MAXIMUM 1400W PER 120 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.

EXISTING PHONE SERVICE
EXISTING CABLE TV
NEW PANEL HL-1
NEW PANEL CL-1
NEW PANEL CL-2
NEW LOCATION OF PANEL 11L35
DIVIDER SENSOR SWITCH
DIVIDER SENSOR SWITCH

OFFICE U-129 | CORRIDOR T-125 | EQUIP. TECH. T-126 | STAIR T-120 | STAIR T-129 | VEST. T-128 | LAUNDRY / CUSTODIAL T-134 | STAIR T-130 | DRY STORAGE T-135 | HALL T-131 | AD-01 | ELEC T-132 | TRASH T-139
PREVIEW ROOM U-130 | ELECTRICAL T-127 | BOYS RESTROOM T-124 | JAN. T-123 | GIRLS RESTROOM T-122 | COOLER T-138 | CORRIDOR T-136 | FREEZER T-137
CORRIDOR T-115 | LGI T-118 | CLASSROOM U-131 | STORAGE T-117 | STAIR T-121 | PREP T-114 | PASSAGE T-116 | STORAGE T-119 | CULINARY LAB 2 T-140
PASSAGE T-114A | STORAGE T-111 | PIRATES COVE T-113 | OFFICE T-143 | CORRIDOR T-142 | TOILET T-141
TECH T-112 | HALL T-110 | CORRIDOR T-144 | CULINARY LAB 1 T-145
MEETING ROOM 1 T-102 | CLASSROOM T-146 | MEDIA CENTER U-101 | STORAGE T-148 | WAREWASHING T-142
MEETING ROOM 3 T-105 | CUST. T-152 | CORRIDOR T-108 | MEETING ROOM 4 T-106 | DISHWASHING T-151 | CLASSROOM T-103
PASSAGE S-1060 | STORAGE T-107 | PASSAGE T-101 | CULINARY LAB 3 T-149 | MEETING ROOM 2 T-104 | STORAGE T-104
HALLWAY B S-135 | VESTIBULE S-136

1 EL121 — UNIT "T" ELECTRICAL LIGHTING FIRST FLOOR PLAN
1/8" = 1'-0"
NORTH

KEY PLAN
IDF LOCATION
FACP LOCATION
NORTH

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ARCHITECTURE - ENGINEERING - INTERIOR DESIGN

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PROJECT 25-181
DATE 07/14/26
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DRAWN BY BR
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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01

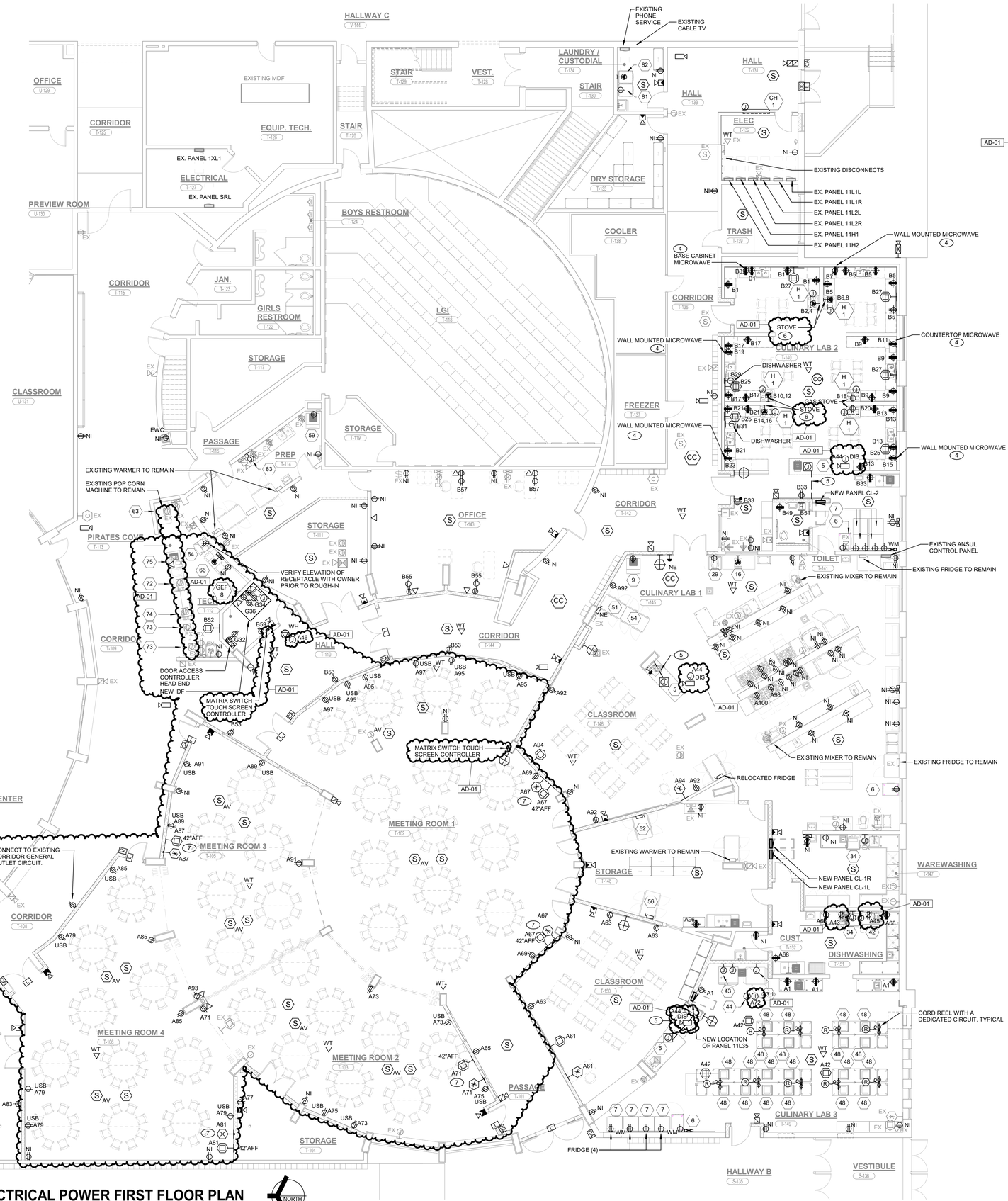
DRAWING
UNIT "T" ELECTRICAL LIGHTING FIRST FLOOR PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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SHEET T EL121

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SHEET NOTES

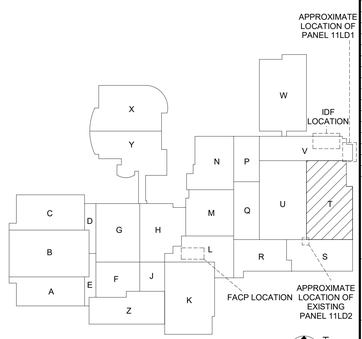
1. EXISTING MECHANICAL EQUIPMENT TO REMAIN.
2. THIS LOCATION SHALL BE CONNECTED TO THE SWITCHING MATRIX IN THE MEETING ROOM SOUND CABINET. REFER TO THE LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION.
3. MEETING ROOM AV SYSTEM WITH 10X10 SWITCHING MATRIX. REFER TO LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION.
4. REFER TO ARCHITECTURAL PLANS FOR RECEPTACLE MOUNTING HEIGHT. VERIFY INSTALLATION HEIGHT WITH OWNER PRIOR TO INSTALLATION.
5. SAW CUT EXISTING FLOOR AS REQUIRED TO ROUTE NEW CONDUIT AND WIRING, CONCEALED IN FLOOR, TO NEW DEMONSTRATION TABLE. ROUTE 3/4"C. FOR POWER WIRING DOWN THE WALL AND INTO THE SAW CUT. EXTEND TO THE NEW DEMONSTRATION TABLE AND CONNECT. COMPLETE AS REQUIRED.
6. ROUTE (3) #6 & 1 #10 GRD. IN 1" CONDUIT FROM PANEL CL-2 TO THE NEW DEVICE.
7. INPUT AND DISPLAY STATION FOR THE MATRIX CONTROLLER. REFER TO THE LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION. SPEAKERS IN THIS SPACE SHALL BE ON THEIR OWN ZONE.

AD-01

GENERAL NOTES

AD-01

1. PROVIDE TWO (2) ADDITIONAL CAMERA CONNECTIONS AT LOCATIONS COORDINATED WITH OWNER'S REPRESENTATIVE.
2. CIRCUIT ALL DEVICES WITH PREFIX "A" TO PANEL CL-1. CIRCUIT ALL DEVICES WITH PREFIX "B" TO PANEL CL-2.
3. VERIFY SPECIAL PURPOSE OUTLET NEMA RATING REQUIREMENTS WITH OWNER'S EQUIPMENT PRIOR TO ORDERING, COMPLETE AS REQUIRED.



1 EP121 — **UNIT "T" ELECTRICAL POWER FIRST FLOOR PLAN**

1/8" = 1'-0"

NORTH

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GIBRALTAR DESIGN
ARCHITECTURE - ENGINEERING - INTERIOR DESIGN

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PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
RH
DRAWN BY
BR
CHECKED BY
DJ

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

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01

DRAWING
UNIT "T" ELECTRICAL POWER FIRST FLOOR PLAN

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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EP121

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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. LED FIXTURES (LESS THAN 10000 LUMENS) SHALL BE PROVIDED WITH FACTORY INSTALLED INTEGRAL EMERGENCY BATTERY UNITS BATTERY UNITS SHALL PROVIDE A MINIMUM OF 1400 LUMENS.
4. FIXTURES THAT CANNOT BE PROVIDED WITH EMERGENCY BALLASTS OR FIXTURES WITH GREATER THAN 10000 LUMENS SHALL BE PROVIDED WITH EMERGENCY INVERTER (MYERS #LV SERIES OR APPROVED EQUAL) WITH SUITABLE CAPACITY TO POWER FIXTURE FOR A MINIMUM OF 90 MINUTES PER CODE. VERIFY SIZING AND REQUIREMENTS WITH CONTRACT DOCUMENTS PRIOR TO ORDERING.
5. SHADED FIXTURES SHALL HAVE AN EMERGENCY SOURCE OF POWER AS SPECIFIED.
6. FIXTURES WITH EMERGENCY BATTERIES SHALL BE PROVIDED WITH CONSTANT HOT SENSING WIRE SO THAT FIXTURE CAN BE SWITCHED ON AND OFF WITHOUT ACTIVATING EMERGENCY BALLAST. UPON LOSS OF POWER, THE FIXTURE SHALL BE ILLUMINATED FOR A MINIMUM OF 90 MINUTES REGARDLESS OF THE LIGHT SWITCH POSITION. PROVIDE TEST SWITCH AND CHARGING INDICATOR FOR EMERGENCY BATTERY AS SPECIFIED.
7. ALL INTEGRAL EMERGENCY BATTERIES USED IN EXTERIOR APPLICATIONS SHALL HAVE A MINIMUM STARTING TEMPERATURE OF -20 DEGREES F UNLESS OTHERWISE SPECIFIED.
8. CAREFULLY COORDINATE MOUNTING REQUIREMENTS FOR FIXTURES WITH CONTRACT DOCUMENTS AND FIXTURE MANUFACTURER. PROVIDE APPROPRIATE MOUNTING FRAMES FOR LAY-IN OR GYPSUM CEILINGS. VERIFY CEILING REQUIREMENTS WITH FINAL ARCHITECTURAL REFLECTED CEILING PLAN.
9. VERIFY FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
10. VERIFY VOLTAGES OF EXISTING LIGHTING CIRCUITRY PRIOR TO ORDERING FIXTURES.
11. FOR FIXTURES INSTALLED IN CASEWORK, VERIFY FIXTURE FIT WITH CASEWORK SHOP DRAWINGS PRIOR TO ORDERING.
12. PROVIDE CUSTOM ANTI-SWAY BRACING FOR PENDANT TO ELIMINATE PENDANT MOVEMENT DUE TO AIR MOVEMENT OR ENVIRONMENTAL CAUSES.
13. 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.
14. FIXTURES SHALL BE PROVIDED WITH ESCUTCHEON PLATES AS REQUIRED TO COVER EXISTING HOLES FROM REMOVED FIXTURES. CANOPY CEILING AROUND NEW FIXTURES SHALL BE REFINISHED TO MATCH EXISTING SURROUNDING CANOPY CEILING SURFACES.
15. PROVIDE 5000K COLOR TEMPERATURE IN SPECIAL EDUCATION SPACES AS SPECIFIED.
16. 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.
17. 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.
18. LIGHT FIXTURE TRANSFORMERS SHALL BE INTEGRAL STEP DOWN TRANSFORMERS PER NEC 210.6C. IF AN INTEGRAL STEP DOWN TRANSFORMER IS NOT AVAILABLE, PROVIDE A 120V CONNECTION FOR LIGHT FIXTURES AND ADDITIONAL CONTROL DEVICES AS REQUIRED TO PROPERLY CONTROL FIXTURES ALONG WITH OTHER 277 VOLT LIGHTING IN ROOM. VERIFY CONDITIONS AND REQUIREMENTS, COMPLETE AS REQUIRED.
19. CAREFULLY COORDINATE VOLTAGES OF FIXTURES PRIOR TO ORDERING FIXTURES.
20. CAREFULLY VERIFY COLOR TEMPERATURE OF FIXTURES WITH ARCHITECT PRIOR TO ORDERING.

LIGHTING CONTROL SEQUENCE OF OPERATIONS

LIGHTING SEQUENCE SCHEME NO.	SPACE CATEGORIES	MANUAL CONTROL FUNCTIONS: ON / OFF (NOTE 1a)	DIMMING (NOTE 1b)	PRESENT SCENE CONTROLS (NOTE 1c)	LIGHTING CONTROL OVERRIDE SWITCH (STAFF-ONLY) (NOTE 1d)	PARTITION CONTROL (NOTE 1e)	OCCUPANCY SENSOR CONTROL FUNCTIONS: AUTOMATIC OFF (NOTE 2a)	AUTOMATIC ON / OFF (NOTE 2b)	AUTOMATIC PARTIAL ON (NOTE 2c)	AUTOMATIC PLUG LOAD ON - OFF AUTO-OFF AFTER 20 MIN. OF INACTIVITY (NOTE 2d)	AUTOMATIC LIGHT REDUCTION: BUSINESS HOURS (NOTE 2e)	EVENING HOURS (NOTE 2f)	TIME CLOCK FUNCTION (SCHEDULED CONTROL) (NOTE 4)	EMERGENCY LIGHTING: CONTROLLED WITH SPACE LTG. (FULL EM VIA UL924 UPON LOSS OF NORMAL POWER)	ON 24 HOUR MODE (NIGHT LTG)	REMARKS
S1	CLASSROOMS / LECTURE / TRAINING ROOMS / CONFERENCE	•	•				•						•	•		
S2	KITCHEN	•									•	•	•	•		
S3	CONFERENCE / MEETING / MULTIPURPOSE ROOMS	•	•				•							•		
S4	MECHANICAL / ELECTRICAL SPACES	•														
S5	CORRIDOR / LOBBIES				•						•	•	•		•	
S6	STORAGE	•					•							•		
S7	OFFICE - OPEN PLAN OFFICE AREAS (MORE THAN 1 WORKSTATION)	•	•				•							•		
S8	RESTROOMS - SINGLE STALL	•						•								

1. MANUAL CONTROL:

a. SWITCH FUNCTION:
MANUAL OPERATION AT LOCAL WALL CONTROL SWITCH SHALL BE REQUIRED TO TURN LIGHTING **ON** AND **OFF** WITHIN THE SPACE.

b. DIMMER FUNCTION:
MANUAL OPERATION AT LOCAL WALL CONTROL DIMMER SHALL ALLOW OCCUPANT TO MANUALLY TURN LIGHTING **ON** AND **OFF** WITHIN THE SPACE AND ADJUST LIGHT LEVEL FROM **100%** TO MINIMUM DIM LEVEL AND **OFF**.

c. PRESET SCENES:
LOCAL WALL CONTROL DIMMER SHALL ALLOW OCCUPANT TO:
1. MANUALLY TURN LIGHTING **ON** AND **OFF** WITHIN THE SPACE.
2. MANUALLY ADJUST LIGHT LEVEL FROM **100%** TO MINIMUM DIM LEVEL AND **OFF**.
3. PROGRAM LOCAL WALL CONTROL TO ALLOW OCCUPANT A **MINIMUM OF 8 LIGHTING SCENES** UNLESS NOTES OTHERWISE. **REFER TO REMARKS FOR BASE SCENE SETTINGS**.

d. OVERRIDE SWITCH:
1. KEY OPERATED LOCAL WALL OVERRIDE SWITCH SHALL ALLOW BUILDING STAFF TO TEMPORARILY OVERRIDE AUTOMATIC LIGHTING CONTROL FUNCTIONS AND TURN THE LIGHTING **ON** TO **100%** WITHIN THE SPACE, FOR A MAXIMUM OF **2 HOURS**.
2. AFTER THE PREPROGRAMMED TIME DELAY HAS EXPIRED, THE SPACE LIGHTING SHALL RETURN TO NORMAL SCHEDULED AUTOMATIC LIGHTING CONTROL FUNCTIONS.

e. SPACE PARTITION CONTROL:
1. PROVIDE AN AUTOMATIC LIGHTING CONTROL INTERFACE COORDINATED WITH OPERABLE ROOM PARTITIONS SUCH THAT LIGHTING CONTROL ZONES SHALL AUTOMATICALLY COMBINE OR SEPARATE BASED ON THE POSITION OF THE PARTITIONS. EACH RESULTING SPACE SHALL BE PROVIDED WITH INDEPENDENT LIGHTING CONTROL, INCLUDING A DEDICATED MANUAL WALL CONTROL STATION IN EACH ZONE SPACE. LIGHTING CONTROLS SHALL MAINTAIN MANUAL AND AUTOMATIC CONTROL FUNCTIONS AND SHALL OPERATE INDEPENDENTLY WITHIN EACH SPACE BASED ON THE CONFIGURED ROOM LAYOUT. PROVIDE CEILING SENSORS, RELAYS, PROGRAMMING, ETC. FOR A COMPLETE FUNCTIONAL SYSTEM.

2. OCCUPANCY SENSOR:

a. VACANCY SENSOR MODE:
1. IN VACANCY MODE, MANUAL OPERATION AT LOCAL WALL SWITCH SHALL BE REQUIRED TO TURN LIGHTING **ON** WITHIN THE SPACE.
2. AFTER THE SPACE HAS BEEN VACATED FOR A MAXIMUM OF **20 MINUTES**, THE SENSOR SHALL AUTOMATICALLY TURN LIGHTING **OFF** WITHIN THE SPACE.

b. OCCUPANCY SENSOR MODE:
1. IN OCCUPANCY MODE, THE SENSOR SHALL AUTOMATICALLY TURN LIGHTING **ON** WITHIN THE SPACE WHEN OCCUPANCY IS DETECTED.
2. AFTER THE SPACE HAS BEEN VACATED FOR A MAXIMUM OF **20 MINUTES**, THE SENSOR SHALL AUTOMATICALLY TURN LIGHTING **OFF** WITHIN THE SPACE.

c. PARTIAL AUTO-ON:
1. OCCUPANCY SENSOR SHALL AUTOMATICALLY TURN THE SPACE LIGHTING **ON** TO A MAXIMUM OF **50% POWER INPUT** WHEN OCCUPANCY IS DETECTED.
2. THE LOCAL WALL DIMMER SHALL ALLOW MANUAL ADJUSTMENT FROM **100% POWER INPUT** TO A MINIMUM DIM LEVEL AND **OFF**.
3. AFTER THE SPACE HAS BEEN VACATED FOR A MAXIMUM OF **20 MINUTES**, THE SENSOR SHALL AUTOMATICALLY TURN LIGHTING **OFF** WITHIN THE SPACE.

d. PLUGLOAD CONTROL:
1. IN VACANCY MODE, MANUAL OPERATION AT LOCAL WALL SWITCH SHALL BE REQUIRED TO TURN CONTROLLED RECEPTACLES **ON** WITHIN THE SPACE.
2. IN OCCUPANCY MODE, THE SENSOR SHALL AUTOMATICALLY TURN CONTROLLED RECEPTACLES **ON** WITHIN THE SPACE.
3. AFTER THE SPACE HAS BEEN VACATED FOR A MAXIMUM OF **20 MINUTES**, THE SENSOR SHALL AUTOMATICALLY TURN CONTROLLED RECEPTACLES **OFF** WITHIN THE SPACE.
4. PROVIDE WIRED PLUG LOAD RELAYS, UNLESS NOTED OTHERWISE. .

e. LIGHTING OPERATION DURING BUSINESS HOURS:
1. AT THE START OF THE SCHEDULED BUSINESS HOURS, THE TIMECLOCK SHALL AUTOMATICALLY TURN SPACE LIGHTING **ON** TO **30% POWER INPUT**.
2. UPON DETECTION OF OCCUPANCY, LIGHTING POWER INPUT SHALL AUTOMATICALLY INCREASE TO **100% INPUT POWER**.
3. AFTER THE SPACE HAS BEEN VACATED FOR A MAXIMUM OF **20 MINUTES**, THE SENSOR SHALL AUTOMATICALLY REDUCE TO LIGHTING INPUT TO **30%**.
4. THIS MODE OF OPERATION SHALL CONTINUE UNTIL THE SCHEDULED TRANSITION TO EVENING LIGHTING CONTROL OPERATION.
5. LOCAL WALL OVERRIDE SWITCHES SHALL BE DISABLED DURING BUSINESS HOURS.

f. LIGHTING OPERATION DURING EVENING HOURS:
1. AT THE START OF THE SCHEDULED EVENING HOURS, THE TIMECLOCK SHALL AUTOMATICALLY TURN LIGHTING **OFF** WITHIN THE SPACE AND TURN EMERGENCY LIGHTING TO **ON** TO **100% POWER INPUT**.
2. UPON DETECTION OF OCCUPANCY, LIGHTING SHALL AUTOMATICALLY TURN **ON** TO **100% LIGHTING POWER INPUT**.
3. AFTER THE SPACE HAS BEEN VACATED FOR A MAXIMUM OF **20 MINUTES**, THE SENSOR SHALL AUTOMATICALLY TURN THE SPACE LIGHTING **OFF** AND EMERGENCY LIGHTING **ON** TO **100% POWER INPUT**.
4. THIS MODE OF OPERATION SHALL CONTINUE UNTIL THE SCHEDULED TRANSITION TO BUSINESS LIGHTING CONTROL OPERATION.
5. LOCAL WALL OVERRIDE SWITCHES SHALL BE PROGRAMMED TO OVERRIDE AUTOMATIC LIGHTING CONTROLS AND PROVIDE 100% LIGHTING POWER INPUT FOR A MAXIMUM DURATION OF APPROXIMATELY **2 HOURS**, AFTER WHICH CONTROL SHALL AUTOMATICALLY RETURN TO NORMAL SCHEDULED OPERATION.

4. TIME CLOCK FUNCTION:
a. LIGHTING SHALL BE AUTOMATICALLY CONTROLLED BY A PROGRAMMABLE TIMECLOCK BASED ON THE FACILITY'S OPERATING SCHEDULE. THE TIMECLOCK SHALL ENABLE OR DISABLE LIGHTING CONTROL ZONES IN ACCORDANCE WITH PROGRAMMED BUSINESS HOURS, AFTER-HOURS, AND NON-OCCUPIED PERIODS.
b. WHEN LIGHTING IS SCHEDULED OFF, AUTOMATIC CONTROLS SHALL NOT ENERGIZE LIGHTING EXCEPT BY OCCUPANCY SENSING OR MANUAL OVERRIDE.
c. DURING BUSINESS HOURS, LIGHTING SHALL OPERATE PER THE PROGRAMMED CONTROL SEQUENCE (REFER TO NOTE 2E).
d. DURING EVENING OR AFTER-HOURS PERIODS, LIGHTING SHALL REMAIN OFF OR IN A REDUCED-POWER STATE AND SHALL OPERATE ONLY UPON DETECTION OF OCCUPANCY OR ACTIVATION OF A MANUAL OVERRIDE.
e. THE TIMECLOCK SHALL INCLUDE PROGRAMMABLE HOLIDAY, WEEKEND, AND SPECIAL EVENT SCHEDULES. MANUAL OVERRIDES SHALL TEMPORARILY BYPASS THE SCHEDULE FOR A PROGRAMMED DURATION, AFTER WHICH LIGHTING CONTROL SHALL AUTOMATICALLY RETURN TO NORMAL OPERATION.

5. LIGHTING CONTROL SYSTEM ADDITIONAL REQUIREMENTS
a. FURNISH AND INSTALL ALL COMPONENTS, HARDWARE, AND INTERFACE WIRING AS REQUIRED TO ACCOMPLISH THE INDICATED CONTROL SEQUENCES.
b. LIGHTING CONTROLS DEVICES SHOWN ON PLANS ARE DIAGRAMMATIC AND DO NOT DEPICT THE COMPLETE EXTENT OF ALL SYSTEM COMPONENTS REQUIRED. PROVIDE ADDITIONAL SENSORS, POWER PACKS, AND CONTROLLERS AS NECESSARY TO MEET THE INTENDED SCOPE OF WORK.
c. THE LIGHTING CONTROL SYSTEM SHALL BE A FULLY WIRED INSTALLATION UNLESS SPECIFICALLY NOTED OTHERWISE. THE USE OF WIRELESS CONTROLS IS NOT PERMITTED.
d. ALL LOW VOLTAGE LIGHTING CONTROL CABLING INSTALLED IN OPEN CEILING AREAS SUBJECT TO PHYSICAL DAMAGE SHALL BE RUN IN A COMPLETE EMT RACEWAY SYSTEM. IN CONCEALED ACCESSIBLE CEILING SPACES OR AREAS NOT SUBJECT TO PHYSICAL DAMAGE, LOW VOLTAGE CONTROL CABLING MAY BE RUN IN FREE AIR. ALL FREE-AIR CABLING SHALL BE PLENUM-RATED AND SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUPPORT CABLING FROM CEILING GRID, DUCTWORK, OR PIPING.
e. COORDINATE FINAL DEVICE LOCATIONS AND PROGRAMMING WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE IN THE FIELD PRIOR TO ROUGH-IN.
f. FURNISH FACTORY REPRESENTATIVE FOR SYSTEM COMMISSIONING, PROGRAMMING, AND OWNER TRAINING AS REQUIRED BY SPECIFICATIONS.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	LOAD: WATTS	HP	MCA	FLA	MOCP	VOLT	PHASE	FEEDER: PANEL	CKT. NO.	CABLE	COND UIT	DISCONNECT SWITCH: SIZE	FUSE	PROV. BY M.C./P.C.	PROV. BY E.C.	STARTER: TYPE	PROV. BY: M.C./P.C.	PROV. BY: E.C.	REMARKS
AH-T-1	AIR HANDLING UNIT	16960.242	15		20.4	30	480	3	EX. PANEL 1GH1	19,21,23	4 #8 & 1 #10 GRD.	1"	30A				VFD	X		
AH-T-2	AIR HANDLING UNIT	6567.937	6		7.9	15	480	3	EX. PANEL 1GH1	20,22,24	4 #12 & 1 #12 GRD.	3/4"	15A				VFD	X		
AH-T-3	AIR HANDLING UNIT	10226.028	10		12.3	15	480	3	EX. PANEL 1GH1	26,28,30	4 #12 & 1 #12 GRD.	3/4"	15A				VFD	X		
AH-U-1	AIR HANDLING UNIT	11389.966	10		13.7	20	480	3	EX. PANEL 1GH1	25,27,29	4 #12 & 1 #12 GRD.	3/4"	20A				VFD	X		
AH-U-4	AIR HANDLING UNIT	11389.966	10		13.7	20	480	3	EX. PANEL 12H4	1,3,5	4 #12 & 1 #12 GRD.	3/4"	20A				VFD	X		
AH-U-5	AIR HANDLING UNIT	10226.028	10		12.3	15	480	3	EX. PANEL 12H4	2,4,6	4 #12 & 1 #12 GRD.	3/4"	15A				VFD	X		
CH-1	CABINET HEATER	264			2.2	15	120	1	NEW PANEL CL-2	B30	2 #12 & 1 #12 GRD.	3/4"	20A					X		
GEF-1	GENERAL EXHAUST FAN	156			1.3	15	120	1	NEW PANEL CL-2	B65	2 #12 & 1 #12 GRD.	3/4"	20A						X	
GEF-2	GENERAL EXHAUST FAN	180			1.5	15	120	1	NEW PANEL CL-2	B67	2 #12 & 1 #12 GRD.	3/4"	20A						X	AD-01
GEF-3	GENERAL EXHAUST FAN	180			1.5	15	120	1	NEW PANEL CL-1L	A11	2 #12 & 1 #12 GRD.	3/4"	20A						X	
GEF-4	GENERAL EXHAUST FAN	156			1.3	15	120	1	NEW PANEL CL-1L	A13	2 #12 & 1 #12 GRD.	3/4"	20A						X	
GEF-5	GENERAL EXHAUST FAN	180			1.5	15	120	1	NEW PANEL CL-1L	A17	2 #12 & 1 #12 GRD.	3/4"	20A						X	
GEF-6	GENERAL EXHAUST FAN	456			3.8	15	120	1	NEW PANEL CL-2	B69	2 #12 & 1 #12 GRD.	3/4"	20A						X	
GEF-7	GENERAL EXHAUST FAN	156			1.3	15	120	1	NEW PANEL CL-1L	A21	2 #12 & 1 #12 GRD.	3/4"	20A						X	
GEF-8	GENERAL EXHAUST FAN	21.6			0.18	15	120	1	NEW PANEL CL-1R	A74	2 #12 & 1 #12 GRD.	3/4"	20A						X	
GEF-9	GENERAL EXHAUST FAN	156			1.3	15	120	1	NEW PANEL CL-1L	A25	2 #12 & 1 #12 GRD.	3/4"	20A						X	AD-01
H-1	HOOD	427.2			3.56	15	120	1	NEW PANEL CL-2	B37	2 #12 & 1 #12 GRD.	3/4"	20A					X		
H-1	HOOD	427.2			3.56	15	120	1	NEW PANEL CL-2	B39	2 #12 & 1 #12 GRD.	3/4"	20A					X		
H-1	HOOD	427.2			3.56	15	120	1	NEW PANEL CL-2	B41	2 #12 & 1 #12 GRD.	3/4"	20A					X		
H-1	HOOD	427.2			3.56	15	120	1	NEW PANEL CL-2	B43	2 #12 & 1 #12 GRD.	3/4"	20A					X		
H-1	HOOD	427.2			3.56	15	120	1	NEW PANEL CL-2	B47	2 #12 & 1 #12 GRD.	3/4"	20A					X		
H-1	HOOD	427.2			3.56	15	120	1	NEW PANEL CL-2	B45	2 #12 & 1 #12 GRD.	3/4"	20A					X		
RT-1	ROOF TOP UNIT	23278.763			28	35	480	3	EX. PANEL	EX.	4 #8 & 1 #10 GRD.	1"	35A					X		-ALTERNATE. -DISCONNECT EXISTING ROOF TOP UNIT BE REPLACED. RECONNECT EXISTING CONNECTIONS TO RT-1. COMPLETE AS REQUIRED
																			AD-01	
TEF-1	TOILET EXHAUST FAN	156			1.3	15	120	1	NEW PANEL CL-2	B73	2 #12 & 1 #12 GRD.	3/4"	20A						X	
TEF-2	TOILET EXHAUST FAN	456			3.8	15	120	1	NEW PANEL CL-2	B61	2 #12 & 1 #12 GRD.	3/4"	20A						X	

INTERIOR LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	SERIES OR CATALOG NUMBER	LAMP	COLOR TEMP	MIN LUMENS	MAX WATTS	VOLTS	CONTROL	MOUNTING TYPE	MOUNTING HEIGHT	REMARKS
AA1	2'X4' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT4-30L-ADSM-GZ1-LP835 24CZ2-XX-S-UNV-L835-HCD1 LCAT24-S-35XXXG-ED1U	LED	3500K	3000 LM	23 W	120/277V	0-10V	RECESSED LAY-IN	- -	---
AA2	2'X4' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT4-40L-ADSM-GZ1-LP835 24CZ2-XX-S-UNV-L835-HCD1 LCAT24-S-35XXXG-ED1U	LED	3500K	4000 LM	31 W	120/277V	0-10V	RECESSED LAY-IN	- -	---
AA3	2'X4' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT4-48L-ADSM-GZ1-LP835 24CZ2-XX-S-UNV-L835-HCD1 LCAT24-S-35XXXG-ED1U	LED	3500K	4800 LM	40 W	120/277V	0-10V	RECESSED LAY-IN	- -	---
AB2	2'X2' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT2-33L-ADSM-GZ1-LP835 22CZ2-XX-S-UNV-L835-HCD1 LCAT22-S-35XXXG-ED1U	LED	3500K	3300 LM	27 W	120/277V	0-10V	RECESSED LAY-IN	--	---
AB3	2'X2' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT2-40L-ADSM-GZ1-LP835 22CZ2-XX-S-UNV-L835-HCD1 LCAT22-S-35XXXG-ED1U	LED	3500K	4000 LM	31 W	120/277V	0-10V	RECESSED LAY-IN	--	---
AB4	2'X2' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT2-48L-ADSM-GZ1-LP835 22CZ2-XX-S-UNV-L835-HCD1 LCAT22-S-35XXXG-ED1U	LED	3500K	4800 LM	43 W	120/277V	0-10V	RECESSED LAY-IN	--	---
AC1	2" WIDE RECESSED LINEAR	MARK	S2RD-LOP-4FT-X-TG-90CRI-35K-1000LMF-SCT-MIN10-FLL-MVOLT-XX OR APPROVED EQUAL	LED	3500K	1000 LMF	34 W	120/277V	0-10V	RECESSED LAY-IN	---	COORDINATE FINISHES WITH ARCHITECT PRIOR TO ORDERING.
BC1	2'X2' RECESSED LENSED KITCHEN TROFFER FIXTURE WITH REGRESSED ALUMINUM DOOR INVERTED LENS AND TRIPLE GASKETING	LITHONIA	2GTL-2-40L-RW-A19INV-MVOLT-GZ1-LP835-ABC	LED	3500K	4000 LM	34 W	120/277V	0-10V	RECESSED LAY-IN	---	---
BD1	2'X4' RECESSED LENSED KITCHEN TROFFER FIXTURE WITH REGRESSED ALUMINUM DOOR INVERTED LENS AND TRIPLE GASKETING	LITHONIA METALUX COLUMBIA	24GR-RA-LDS-XX-A19INV-MVOLT-GZ1-LP835-HCD1-E3 LJT24-35XXG-RAA19INV-ED1U	LED	3500K	6000 LM	49 W	120/277V	0-10V	RECESSED LAY-IN	---	---
BD2	2'X4' RECESSED LENSED KITCHEN TROFFER FIXTURE WITH REGRESSED ALUMINUM DOOR INVERTED LENS AND TRIPLE GASKETING	LITHONIA METALUX COLUMBIA	2GTL-4-40L-RW-A19INV-MVOLT-GZ1-LP835-ABC 24GR-RA-LDS-XX-A19I156INV-UNV-L835-HCD1-G3 LJT24-35XXG-RAA19INV-ED1U	LED	3500K	4000 LM	54 W	120/277V	0-10V	RECESSED LAY-IN	---	---
CA1	6" DIAMETER LED OPEN DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR AND WHITE FLANGE	LITHONIA HALO PRESCOLITE	LDN6-35-10-L06-AR-LSS-TRW-MVOLT-GZ1 HC6XXD010-HM6XX835-61WDHWF LTR-6RD-H-XXXXL-DM1-LTR-6RD-T-XX35K8WD-SSWT	LED	3500K	1000 LM	11 W	120/277V	0-10V	RECESSED LAY-IN/ DRYWALL	---	---
CA2	6" DIAMETER LED OPEN DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR AND WHITE FLANGE	LITHONIA HALO PRESCOLITE	LDN6-35-15-L06-AR-LSS-TRW-MVOLT-GZ1 HC6XXD010-HM6XX835-61WDHWF LTR-6RD-H-XXXXL-DM1-LTR-6RD-T-XX35K8WD-SSWT	LED	3500K	1500 LM	18 W	120/277V	0-10V	RECESSED LAY-IN/ DRYWALL	---	---
CA3	6" DIAMETER LED OPEN DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR AND WHITE FLANGE	LITHONIA HALO PRESCOLITE	LDN6-35-20-L06-AR-LSS-TRW-MVOLT-GZ1 HC6XXD010-HM6XX835-61WDHWF LTR-6RD-H-XXXXL-DM1-LTR-6RD-T-XX35K8WD-SSWT	LED	3500K	2000 LM	23 W	120/277V	0-10V	RECESSED LAY-IN/ DRYWALL	---	---
IA1	4' SUSPENDED LED INDUSTRIAL FIXTURE WITH FLAT DIFFUSE LENS, WHITE FINISH, WIREGUARD, AND SAFETY CHAINS	LITHONIA METALUX COLUMBIA	CLX-L48-3000LM-SEF-FDL-MVOLT-GZ1-35K-80CRI-WH- HC36M12-WGCLX48 4SNX-XXSL-FDL-UNV-L835-HCD1-AYC-CHAIN/SET-U-WG-SNX/SN-4FT-B MPS4-35XX-FW-ED1U-CSHC-MPSWG4	LED	3500K	3000 LM	32 W	120/277V	0-10V	"Y" CHAIN SUSPENDED	---	COORDINATE LOCATIONS WITH DUCTWORK AND PIPING
PA	96" RING LIGHT PENDANT WITH INDEPENDENT DIRECT/INDIRECT LIGHTING CONTROLS	CERCHIO LIGHTING	P77-DI-D96-H4-W3-80CR-35KD-35KID-SDC-DE96-IDE-96-XX-XX-XX-C03 OR APPROVED EQUAL	LED	3500K	8666 LM	104 W	120/277V	SDC	PENDANT	10'6" A.F.F.	COORDINATE FINISHES WITH ARCHITECT PRIOR TO ORDERING. COORDINATE MOUNTING STYLE (CANOPY TYPE) AND REQUIREMENTS WITH ARCHITECT PRIOR TO ORDERING.
PC	RGBW TAPE LIGHT	OPTIC ARTS DIODELED OMNI LIGHT	KBL-W-HB-XX-RGBW26SQ-RGB40K-R80-SF-NA-XX DI-24V-3D-LIN-RGBW-XX-STE NEO3M-RGB35-HO-OM-WH-XX	LED	3500K	192 LMF	5 W	120/277V	0-10V	SURFACE	---	COORDINATE FINISH AND RUN LENGTH WITH ARCHITECT PRIOR TO ORDERING.
XA	LED THERMOPLASTIC SINGLE FACE EXIT SIGN, RED LETTERING, WHITE FINISH, NICAD BATTERY, SELF-DIAGNOSTICS	LITHONIA SURELITES DUAL LITE	LQM-S-W-3-R-MVOLT-ELN-SD LPX7SD EVCURWI	LED	---	---	1 W	120/277V	---	CEILING	---	ENGINEER - CONFIRM LETTER COLOR, FINISH, BATTERY VS AC ONLY
XB	LED THERMOPLASTIC DUAL FACE EXIT SIGN, RED LETTERING, WHITE FINISH, NICAD BATTERY, SELF-DIAGNOSTICS	LITHONIA SURELITES DUAL LITE	LQM-S-W-3-R-MVOLT-ELN-SD LPX7SD EVCURWI	LED	---	---	1 W	120/277V	---	CEILING	---	ENGINEER - CONFIRM LETTER COLOR, FINISH, BATTERY VS AC ONLY
EM	FIXTURE ON EMERGENCY CIRCUIT WITH 90 MINUTE, HIGH OUTPUT (MIN 1400LM) BATTERY UNIT OR INVERTER		BODINE FACTORY INSTALLED BATTERY, OR, AT CONTRACTOR'S DISCRETION, MYERS LV SERIES INVERTER (SIZE AND QUANTITY AS REQUIRED)				0 W	120/277V		---		- PROVIDE TEST SWITCH AND CHARGING INDICATOR - INTEGRAL BATTERIES NOT ALLOWED IN FIXTURES WITH GREATER THAN 10000 LUMENS
NL	CONSTANT HOT, UNSWITCHED NIGHT LIGHT FIXTURE						0 W					---

AD-01

GIBRALTAR DESIGN
ARCHITECTURE - ENGINEERING - INTERIOR DESIGN
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PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA

NEW PANEL CL-1R

LOCATION: WASH T-147 **VOLTS:** 120/208 Wye
SUPPLY FROM: NEW PANEL CL-1L **PHASES:** 3
MOUNTING: RECESSED **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 **MAIN RATING:** 400 A
A.I.C. RATING: 22000 A **BUSSING:** COPPER
NOTES:

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
A61	REC - T-150 - INPUT/TV	--	20 A	1	900			480							
A63	REC - T-150	--	20 A	1		600			480		3	20 A	GC	DISPOSER - T-151	A64
A65	REC - T-101	--	20 A	1			200			480					
A67	REC - T-102 - TV	--	20 A	1	800			600			1	20 A	--	REC - T-151	A68
A69	REC - T-102	--	20 A	1		400			1920		1	20 A		COMBI OVEN STEAMER	A70
A71	REC - T-103 - INPUT/TV	--	20 A	1			900			500	1	20 A		COMBI VENTILATION CONTROLS	A72
A73	REC - T-103	--	20 A	1	600			22			1	0 A		GEF-8	A74
A75	REC - T-103	--	20 A	1		400			1414		2	20 A	GC	MICROWAVE - T-145	A76
A77	REC - T-104	--	20 A	1			200			1414					A78
A79	REC - T-106	--	20 A	1	600			960			1	20 A	--	QUART MIXER - T-145	A80
A81	REC - T-106 - INPUT/TV	--	20 A	1		900			1428		1	20 A	--	ICE MACHINE - T-145	A82
A83	REC - T-107	--	20 A	1			400			888	1	20 A	GC	REFRIGERATOR PASS THRU- T-145	A84
A85	REC - T-106	--	20 A	1	600			1612			2	20 A	GC	REFRIGERATOR PASS THRU - T-145	A86
A87	REC - T-105 - INPUT/TV	--	20 A	1		900			1612						A88
A89	REC - T-105	--	20 A	1			400			1920	1	20 A	--	DEMO TABLE - T-145	A90
A91	REC - T-105	--	20 A	1	400			800			1	20 A	--	REC - T-146	A92
A93	REC - CAST TV T-103/T-105	--	20 A	1		200			900		1	20 A	--	REC - T-146 - INPUT/TV	A94
A95	REC - T-102	--	20 A	1			400			200	1	20 A	--	REC - T-148 STORAGE	A96
A97	REC - T-102	--	20 A	1	400			200			1	20 A	--	REC - T-146 CULINARY	A98
A99	PASS-THRU HOT HOLDING	--	20 A	2		1612			200		1	20 A	--	REC - T-146 CULINARY	A100
A101							1612			888	1	20 A	--	REFRIGERATOR PASS-THRU	A102

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE
EX = EXISTING CIRCUIT BREAKER

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	9141 VA
TOTAL CONNECTED LOAD PHASE B:	13133 VA
TOTAL CONNECTED LOAD PHASE C:	10569 VA
TOTAL CONNECTED LOAD:	32843 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	**TOTAL CONNECTED AMPS:** 91.2 A

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EX. PANEL 1XL1

LOCATION: **VOLTS:** 120/208 Wye
SUPPLY FROM: **PHASES:** 3
MOUNTING: SURFACE **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 **MAIN RATING:** 225 A
A.I.C. RATING: 22000 A **BUSSING:** COPPER
NOTES:
NEW CIRCUIT BREAKERS SHALL MATCH THE MAKE, MODEL, AND WITHSTAND RATING OF THE EXISTING PANELBOARD. VERIFY EXACT CONDITIONS IN FIELD.

AD-01

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
X1	EX. REACH IN REFR KITCHEN	--	20 A	1	0			0			1	20 A	--	EX. ICE MAKER (KITCHEN)	X2
X3	EX. REACH IN REFR KITCHEN	--	20 A	1		0			0		1	20 A	--	EX. MOBILE ICE CREAM CAB "A"	X4
X5	EX. MOBILE MILK DISP "A"	--	20 A	1			0			0	1	20 A	--	EX. MOBILE ICE CREAM CAB "B"	X6
X7	EX. MOBILE MILK DISP "B"	--	20 A	1	0			0			1	20 A	--	EX. MOBILE ICE CREAM CAB "C"	X8
X9	EX. MOBILE MILK DISP "C"	--	20 A	1		0			0		1	20 A	--	EX. MOBILE ICE CREAM CAB	X10
X11	EX. WALK IN FREEZER/LGT	--	20 A	1			0			0	1	20 A	--	EX. MOBILE MILK CAB	X12
X13	EX. WALK IN COOLER COIL UNIT	--	20 A	1	0										X14
X15	EX. RECPT ROOF ABOVE KITCHEN	--	20 A	1		0			0		1	20 A	--	EX. SOUND EQUIP C120 & CAF SYS	X16
X17	EX. CRKT	--	20 A	1			0								X18
X19	EX. FM 200 PANEL	--	20 A	1	0			0			1	20 A	--	EX. SECURITY TRANSPONDER BC	X20
X21	EX. E WALL & UPPER 4GANG REC	--	20 A	1		0			0		1	20 A	--	EX. ROLLING GRILLE "C"...	X22
X23	EX. SPARE	--	20 A	1			0			0	1	20 A	--	EX. ROLLING GRILLE "STC" EAST	X24
X25	EX. W WALL & UPPER 4GANG REC	--	20 A	1	0			0			1	20 A	--	EX. GRILLE STAIR T-18	X26
X27	NEW SPACE FROM EX. BREAKER	--	--	1		--			0		1	20 A	--	EX. FIRE ALARM NAC #7	X28
X29	REFRIGERATOR - T-140	GC	20 A	1			1200			1200	1	20 A	GC	REFRIGERATOR - T-149	X30
X31					0			0							X32
X33	EX. COOLER COND UNIT ON ROOF	--	15 A	3		0			0		3	40 A	--	EX. FREEZER COND UNIT ON ROOF	X34
X35							0			0					X36
X37	REFRIGERATOR - T-140	GC	20 A	1	1200			1200			1	20 A	GC	REFRIGERATOR - T-149	X38
X39	REFRIGERATOR - T-140	GC	20 A	1		1200			1200		1	20 A	GC	REFRIGERATOR - T-149	X40
X41	REFRIGERATOR - T-140	GC	20 A	1			1200			1200	1	20 A	GC	REFRIGERATOR - T-149	X42

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE
EX = EXISTING CIRCUIT BREAKER

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	2400 VA
TOTAL CONNECTED LOAD PHASE B:	2400 VA
TOTAL CONNECTED LOAD PHASE C:	4800 VA
TOTAL CONNECTED LOAD:	9600 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	**TOTAL CONNECTED AMPS:** 26.6 A

EX. PANEL 1GH1

LOCATION: **VOLTS:** 480/277 Wye
SUPPLY FROM: **PHASES:** 3
MOUNTING: SURFACE **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 **MAIN RATING:** 225 A
A.I.C. RATING: 22000 A **BUSSING:** COPPER
NOTES:
NEW CIRCUIT BREAKERS SHALL MATCH THE MAKE, MODEL, AND WITHSTAND RATING OF THE EXISTING PANELBOARD. VERIFY EXACT CONDITIONS IN FIELD.

AD-01

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1					0			0			1	20 A	--	EX. LTG	2
3	EX. LOAD	--	15 A	3		0			0		1	20 A	--	EX. LTG	4
5							0			0	1	20 A	--	EX. LTG	6
7	EX. LOAD	--	20 A	1	0			0							8
9	EX. LOAD	--	20 A	1		0			0		3	15 A	--	EX. SPARE	10
11	EX. LOAD	--	20 A	1			0			0					12
13	EX. LOAD	--	20 A	1	0			0			1	20 A	--	EX. LOAD	14
15	EX. LOAD	--	20 A	1		0			0		1	20 A	--	EX. LOAD	16
17	EX. LOAD	--	20 A	1			0			0	1	20 A	--	EX. LOAD	18
19					5653			2189							20
21	AH-T-1	RP	30 A	3		5653			2189		3	15 A	RP	AH-T-2	22
23							5653			2189					24
25					3797			3409							26
27	AH-U-1	RP	20 A	3		3797			3409		3	15 A	RP	AH-T-3	28
29							3797			3409					30

LEGEND:
RP = PROVIDE NEW CIRCUIT BREAKER REPLACING EXISTING CIRCUIT BREAKER
EX = EXISTING CIRCUIT BREAKER

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	15048 VA
TOTAL CONNECTED LOAD PHASE B:	15048 VA
TOTAL CONNECTED LOAD PHASE C:	15048 VA
TOTAL CONNECTED LOAD:	45144 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	**TOTAL CONNECTED AMPS:** 54.3 A

NEW PANEL CL-1L

LOCATION: WASH T-147 **VOLTS:** 120/208 Wye
SUPPLY FROM: CL-1L **PHASES:** 3
MOUNTING: RECESSED **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 **MAIN RATING:** 400 A
A.I.C. RATING: 22000 A **BUSSING:** COPPER
NOTES:
DOUBLE TUB PANEL WITH PANEL CL-1L. PROVIDE SUB FEED LUGS.

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
A1	REC - T-149	--	20 A	1	800			1800			1	20 A	--	SINGLE BURNER - T-149	A2
A3	COMBI-OVEN - T-149	--	20 A	1		1500			1800		1	20 A	--	SINGLE BURNER - T-149	A4
A5	MOBILE PROOFER CABINET - T-145	--	20 A	1			1896			1800	1	20 A	--	SINGLE BURNER - T-149	A6
A7	DEMO TABLE - T-149	--	20 A	1	1920			1800			1	20 A	--	SINGLE BURNER - T-149	A8
A9	MOBILE PROOFER CABINET - T-149	--	20 A	1		1896			1800		1	20 A	--	SINGLE BURNER - T-149	A10
A11	GEF-3	--	20 A	1			180			1800	1	20 A	--	SINGLE BURNER - T-149	A12
A13	GEF-4	--	20 A	1	156			1800			1	20 A	--	SINGLE BURNER - T-149	A14
A15	REC - ROOF - GEF-3/GEF-4	--	20 A	1		200			1800		1	20 A	--	SINGLE BURNER - T-149	A16
A17	GEF-5	--	20 A	1			180			1800	1	20 A	--	SINGLE BURNER - T-149	A18
A19	REC - ROOF - GEF-5	--	20 A	1	200			1800			1	20 A	--	SINGLE BURNER - T-149	A20
A21	GEF-7	--	20 A	1		156			1800		1	20 A	--	SINGLE BURNER - T-149	A22
A23	REC - ROOF - GEF-7	--	20 A	1			200			1800	1	20 A	--	SINGLE BURNER - T-149	A24
A25					1921			1800			1	20 A	--	SINGLE BURNER - T-149	A26
A27	DISHWASHER STRAIGHT		20 A	3		1921			1800		1	20 A	--	SINGLE BURNER - T-149	A28
A29							1921			1800	1	20 A	--	SINGLE BURNER - T-149	A30
A31					1921			1800			1	20 A	--	SINGLE BURNER - T-149	A32
A33	DISHWASHER STRAIGHT		20 A	3		1921			1800		1	20 A	--	SINGLE BURNER - T-149	A34
A35							1921			1800	1	20 A	--	SINGLE BURNER - T-149	A36
A37					1921			1800			1	20 A	--	SINGLE BURNER - T-149	A38
A39	COMBI VENTILATION SYSTEM		20 A	3		1921			1800		1	20 A	--	SINGLE BURNER - T-149	A40
A41							1921			1200	1	20 A	--	TVS CULINARY LAB 3	A42
A43	DISH WASHING CONTROLS		20 A	1	200			1500			1	20 A	--	TEACHING CAMERA	A44
A45	DISH WASHING CONTROLS		20 A	1		200			500		1	20 A		WIRELESS HUB	A46
A47	SPARE	--	20 A	1			0			500	1	20 A	--	DOOR ACCESS CONTOLLER	A48
A49	SPACE	--	--	1	--			--			1	--	--	SPACE	A50
A51	SPACE	--	--	1		--			--		1	--	--	SPACE	A52
A53	SPACE	--	--	1			--			--	1	--	--	SPACE	A54
A55	SPACE	--	--	1	--			--			1	--	--	SPACE	A56
A57	SPACE	--	--	1		--			--		1	--	--	SPACE	A58
A59	SPACE	--	--	1			--			--	1	--	--	SPACE	A60

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE
EX = EXISTING CIRCUIT BREAKER

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	32281 VA
TOTAL CONNECTED LOAD PHASE B:	35950 VA
TOTAL CONNECTED LOAD PHASE C:	31290 VA
TOTAL CONNECTED LOAD:	99520 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	**TOTAL CONNECTED AMPS:** 276.2 A

AD-01

EX. PANEL SRL

LOCATION: **VOLTS:** 120/208 Wye
SUPPLY FROM: **PHASES:** 3
MOUNTING: SURFACE **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 **MAIN RATING:** 200 A
A.I.C. RATING: 22000 A **BUSSING:** COPPER
NOTES:
NEW CIRCUIT BREAKERS SHALL MATCH THE MAKE, MODEL, AND WITHSTAND RATING OF THE EXISTING PANELBOARD. VERIFY EXACT CONDITIONS IN FIELD.

AD-01

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
G1								0			1	20 A	--	SPARE	G2
G3	SPARE	--	100 A	3		0			0		1	20 A	--	SPARE	G4
G5							0			0	1	20 A	--	SPARE	G6
G7	SPARE	--	20 A	2	0			0			2	30 A	--	SPARE	G8
G9						0			0						G10
G11	SPARE	--	20 A	2			0			0	2	30 A	--	SPARE	G12
G13					0			0							G14
G15	SPARE	--	20 A	2		0			0		2	30 A	--	SPARE	G16
G17							0			0					G18
G19	SPARE	--	20 A	2	0			0			2	30 A	--	SPARE	G20
G21						0			0						G22
G23	SPARE	--	20 A	1			0			0	2	30 A	--	SPARE	G24
G25	SPARE	--	20 A	1	0			0							G26
G27	SPARE	--	20 A	1		0			0		1	20 A	--	SPARE	G28
G29	SPARE	--	20 A	1			0			0	1	20 A	--	SPARE	G30
G31	SPARE	--	100 A	3	0			400			1	20 A		DOOR ACCESS CONTROLS - T-112	G32
G33						0			400		1	20 A	--	MEETING RM CONTROLS - T-112	G34
G35							0			400	1	20 A		MEETING RM CONTROLS - T-112	G36
G37	SPARE	--	20 A	1	0			0							G38
G39	SPARE	--	20 A	2		0			0		3	30 A	--	SPARE	G40
G41							0			0					G42

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE
EX = EXISTING CIRCUIT BREAKER

EX BASEMENT
EXISTING

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	400 VA
TOTAL CONNECTED LOAD PHASE B:	400 VA
TOTAL CONNECTED LOAD PHASE C:	400 VA
TOTAL CONNECTED LOAD:	1200 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	**TOTAL CONNECTED AMPS:** 3.3 A

NEW PANEL CL-2

LOCATION: CULINARY LAB-2 **VOLTS:** 120/208 Wye
SUPPLY FROM: 11LD1 **PHASES:** 3
MOUNTING: RECESSED **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 **MAIN RATING:** 400 A
A.I.C. RATING: 22000 A **BUSSING:** COPPER
NOTES:
PANEL SHALL BE PROVIDED AS A SINGLE, 84 CIRCUIT PANEL, A DOUBLE TUB PANEL IS NOT ALLOWED.

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
B1	REC - T-140 - NW COUNTERTOP	--	20 A	1	800			4500							
B3	REC - T-140 - NW MICROWAVE	GC	20 A	1		1700			4500		2	50 A	--	STOVE - T-140 NW.	B4
B5	REC - T-140 - NE COUNTERTOP	--	20 A	1			1000			4500					
B7	REC - T-140 - NE MICROWAVE	GC	20 A	1	1700			4500			2	50 A	--	STOVE - T-140 NE.	B8
B9	REC - T-140 - E COUNTERTOP	--	20 A	1		800			4500						B10
B11	REC - T-140 - E MICROWAVE	GC	20 A	1			1700			4500	2	50 A	--	STOVE - T-140 W.	B12
B13	REC - T-140 - SE COUNTERTOP	--	20 A	1	800			4500							B14
B15	REC - T-140 - SE MICROWAVE	GC	20 A	1		1700			4500		2	50 A	--	STOVE - T-140 SW.	B16
B17	REC - T-140 - W COUNTERTOP	--	20 A	1			800			700	1	20 A		GAS STOVE - T-140 SE.	B18
B19	REC - T-140 - W MICROWAVE	GC	20 A	1	1700			700			1	20 A		GAS STOVE - T-140 SE.	B20
B21	REC - T-140 - SW COUNTERTOP	--	20 A	1		600			1896		1	20 A	--	MOBILE PROOFER CABINET - T-140	B22
B23	REC - T-140 - SW MICROWAVE	GC	20 A	1			1700			1920	1	20 A	--	CLOTHES WASHER - T-134	B24
B25	TV - T-140 W & SE	--	20 A	1	1200			2496							B26
B27	TV - T-140 N & E	--	20 A	1		1200			2496		2	30 A	GC	CLOTHES DRYER - T-134	B28
B29	DISHWASHER - T-140 W	GC	20 A	1			1500			264	1	20 A	--	CH-1	B30
B31	DISHWASHER - T-140 SW	GC	20 A	1	1500			1428			1	20 A	--	ICE MACHINE - T-114	B32
B33	REC - T-140 - S	--	20 A	1		600			1331		2	20 A	--	COFFEE MAKER - T-114	B34
B35	DEMO TABLE - T-140	--	20 A	1			1920			1331					B36
B37	HOOD H-1	--	20 A	1	427			--			1	--	--	SPACE	B38
B39	HOOD H-1	--	20 A	1		427			420		1	20 A	--	REFRIGERATED PREP TABLE -...	B40
B41	HOOD H-1	--	20 A	1			427			2808	2	30 A	--	DIGITAL IMPINGER - T-113	B42
B43	HOOD H-1	--	20 A	1	427			2808							B44
B45	HOOD H-1	--	20 A	1		427			--		1	--	--	SPACE	B46
B47	HOOD H-1	--	20 A	1			427			1920	1	20 A	--	SERVING COUNTER - T-113	B48
B49	REC - T-141	--	20 A	1	200			--			1	--	--	SPACE	B50
B51	HAND DRYER - T-141	--	20 A	1		1400			400		1	20 A	--	REC - T-113 - TV	B52
B53	CORRIDOR RECEPTACLES	--	20 A	1			600			200	1	20 A	--	REC - ROOF - GEF-1/GEF-2	B54
B55	REC - T-143 - DESKS	--	20 A	1	400			0			1	20 A	--	SPARE	B56
B57	REC - T-143 - DESKS	--	20 A	1		400			0		1	20 A	--	SPARE	B58
B59	REC - T-112	--	20 A	1			200			0	1	20 A	--	SPARE	B60
B61	TEF-2	--	20 A	1	456			0			1	20 A	--	SPARE	B62
B63	REC - ROOF - TEF-2	--	20 A	1		200			0		1	20 A	--	SPARE	B64
B65	GEF-1	--	20 A	1			156			0	1	20 A	--	SPARE	B66
B67	GEF-2	--	20 A	1	180			--			1	--	--	SPACE	B68
B69	GEF-6	--	20 A	1		456			--		1	--	--	SPACE	B70
B71	REC - ROOF - GEF-6	--	20 A	1			200			--	1	--	--	SPACE	B72
B73	TEF-1	--	20 A	1	156			--			1	--	--	SPACE	B74
B75	REC - ROOF - TEF-1	--	20 A	1		200			--		1	--	--	SPACE	B76
B77	SPARE	--	20 A	1			0			--	1	--	--	SPACE	B78
B79	SPACE	--	--	1	--			--			1	--	--	SPACE	B80
B81	SPACE	--	--	1		--			--		1	--	--	SPACE	B82
B83	SPACE	--	--	1			--			--	1	--	--	SPACE	B84

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE
EX = EXISTING CIRCUIT BREAKER

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	30878 VA
TOTAL CONNECTED LOAD PHASE B:	30154 VA
TOTAL CONNECTED LOAD PHASE C:	28774 VA
TOTAL CONNECTED LOAD:	89806 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	**TOTAL CONNECTED AMPS:** 249.3 A

EX. PANEL 12H4

LOCATION: MECH U-200 **VOLTS:** 480/277 Wye
SUPPLY FROM: EXISTING **PHASES:** 3
MOUNTING: SURFACE **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 **MAIN RATING:** 125 A
A.I.C. RATING: 22000 A **BUSSING:** COPPER
NOTES:
NEW CIRCUIT BREAKERS SHALL MATCH THE MAKE, MODEL, AND WITHSTAND RATING OF THE EXISTING PANELBOARD. VERIFY EXACT CONDITIONS IN FIELD.

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1					3797			3409							
3	AH-U-4	RP	20 A	3		3797			3409		3	15 A	RP	AH-U-5	4
5							3797			3409					6
7	EX. LIGHTS U-200	--	20 A	1	0			0			1	20 A	--	EX. SPARE	8
9	EX. SPARE	--	20 A	1		0			0		1	20 A	--	EX. SPARE	10
11	EX. SPARE	--	20 A	1			0			0	1	20 A	--	EX. SPARE	12
13	EX. SPARE	--	20 A	1	0			0			1	20 A	--	EX. SPARE	14
15	EX. SPARE	--	20 A	1		0			0		1	20 A	--	EX. SPARE	16
17	EX. SPARE	--	20 A	1			0			0	1	20 A	--	EX. SPARE	18

LEGEND:
RP = PROVIDE NEW CIRCUIT BREAKER REPLACING EXISTING CIRCUIT BREAKER
EX = EXISTING CIRCUIT BREAKER

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	7205 VA
TOTAL CONNECTED LOAD PHASE B:	7205 VA
TOTAL CONNECTED LOAD PHASE C:	7205 VA
TOTAL CONNECTED LOAD:	21616 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	**TOTAL CONNECTED AMPS:** 26 A

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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
RH
DRAWN BY
BR
CHECKED BY
DJ

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

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AD-01	07/24/26	ADDENDUM 01

DRAWING
ELECTRICAL SCHEDULES

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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FOOD SERVICE EQUIPMENT SCHEDULE - ELECTRICAL

TAG	QTY	FIXTURE/EQUIPMENT DESCRIPTION	ELECTRICAL CONNECTIONS VOLT	PHASE	AMPS	HP	WATTS	PLUG-IN	HARD-WIRE	ROUGH-IN HEIGHT AFF	PANEL	CKT. NO.	FEEDER CABLE	CONDUIT	REMARKS
5	1	DEMONSTRATION TABLE	120	1	16	0	1920		X		NEW PANEL CL-1R	A90	2 #12 & 1 #12 GRD.	3/4"	
5	1	DEMONSTRATION TABLE	120	1	16	0	1920		X		NEW PANEL CL-2	B35	2 #12 & 1 #12 GRD.	3/4"	
5	1	DEMONSTRATION TABLE	120	1	16	0	1920		X		NEW PANEL CL-1L	A7	2 #12 & 1 #12 GRD.	3/4"	
6	1	MOBILE PROOFER CABINET	120	1	15.8	0	1896	X			NEW PANEL CL-1L	A5	2 #12 & 1 #12 GRD.	3/4"	
6	1	MOBILE PROOFER CABINET	120	1	15.8	0	1896	X			NEW PANEL CL-2	B22	2 #12 & 1 #12 GRD.	3/4"	
6	1	MOBILE PROOFER CABINET	120	1	15.8	0	1896	X			NEW PANEL CL-1L	A9	2 #12 & 1 #12 GRD.	3/4"	
7	1	RESIDENTIAL REFRIGERATOR	120	1	10	0	1200	X			EX. PANEL 1XL1	X41	2 #12 & 1 #12 GRD.	3/4"	PROVIDED BY OWNER
7	1	RESIDENTIAL REFRIGERATOR	120	1	10	0	1200	X			EX. PANEL 1XL1	X39	2 #12 & 1 #12 GRD.	3/4"	PROVIDED BY OWNER
7	1	RESIDENTIAL REFRIGERATOR	120	1	10	0	1200	X			EX. PANEL 1XL1	X37	2 #12 & 1 #12 GRD.	3/4"	PROVIDED BY OWNER
7	1	RESIDENTIAL REFRIGERATOR	120	1	10	0	1200	X			EX. PANEL 1XL1	X29	2 #12 & 1 #12 GRD.	3/4"	PROVIDED BY OWNER
7	1	RESIDENTIAL REFRIGERATOR	120	1	10	0	1200	X			EX. PANEL 1XL1	X38	2 #12 & 1 #12 GRD.	3/4"	PROVIDED BY OWNER
7	1	RESIDENTIAL REFRIGERATOR	120	1	10	0	1200	X			EX. PANEL 1XL1	X30	2 #12 & 1 #12 GRD.	3/4"	PROVIDED BY OWNER
7	1	RESIDENTIAL REFRIGERATOR	120	1	10	0	1200	X			EX. PANEL 1XL1	X42	2 #12 & 1 #12 GRD.	3/4"	PROVIDED BY OWNER
7	1	RESIDENTIAL REFRIGERATOR	120	1	10	0	1200	X			EX. PANEL 1XL1	X40	2 #12 & 1 #12 GRD.	3/4"	PROVIDED BY OWNER
9	1	ICE MACHINE	120	1	11.9	0	1428	X			NEW PANEL CL-1R	A82	2 #12 & 1 #12 GRD.	3/4"	
16	1	MICROWAVE OVEN	208	1	13.6	0	2828.8	X			NEW PANEL CL-1R	A76,78	3 #12 & 1 #12 GRD.	3/4"	
29	1	20 QUART MIXER WITH MOBILE STAND	120	1	8	0.5	960	X			NEW PANEL CL-1R	A80	2 #12 & 1 #12 GRD.	3/4"	
34	1	DISHWASHER, STRAIGHT	208	3	16	0	5764.3		X		NEW PANEL CL-1L	A25,27,29	4 #12 & 1 #12 GRD.	3/4"	REFER TO ELECTRICAL PLANS FOR 120V CONTROLS RECEPTACELE
34	1	DISHWASHER, STRAIGHT	208	3	16	0	5764.3		X		NEW PANEL CL-1L	A31,33,35	4 #12 & 1 #12 GRD.	3/4"	REFER TO ELECTRICAL PLANS FOR 120V CONTROLS RECEPTACELE
42	1	DISPOSER	208	1	15	0	2995.2		X		NEW PANEL CL-1R	A86,88	3 #12 & 1 #12 GRD.	3/4"	
43	1	STACKING COMBI OVEN-STEAMERS	120	1	12.5	0	1500		X		NEW PANEL CL-1L	A3	2 #12 & 1 #12 GRD.	3/4"	
43.1	1	COMBI OVEN-STEAMER	120	1	15	0	1800		X		NEW PANEL CL-1R	A99	3 #12 & 1 #12 GRD.	3/4"	
44	1	COMBI VENTILATION SYSTEM	208	3	16	0	5764.3		X		NEW PANEL CL-1L	A37,39,41	4 #12 & 1 #12 GRD.	3/4"	REFER TO ELECTRICAL PLANS FOR 120V CONTROLS CONNECTION
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A40	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A26	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A38	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A28	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A36	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A30	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A34	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A32	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A22	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A24	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A20	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A18	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A16	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A12	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A14	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A10	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A8	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A4	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A6	2 #12 & 1 #12 GRD.	3/4"	
48	1	SINGLE BURNER COOKTOP	120	1	15	0	1800	X			NEW PANEL CL-1L	A2	2 #12 & 1 #12 GRD.	3/4"	
51	1	REFRIGERATOR PASS-THRU	120	1	7.4	0	888	X			NEW PANEL CL-1R	A84	2 #12 & 1 #12 GRD.	3/4"	
52	1	REFRIGERATOR PASS-THRU	120	1	7.4	0	888	X			NEW PANEL CL-1R	A102	2 #12 & 1 #12 GRD.	3/4"	
54	1	PASS-THRU HOT FOOD HOLDING CABINET	208	1	15.5	0	3224	X			NEW PANEL CL-1R	A86,88	3 #12 & 1 #12 GRD.	3/4"	
56	1	PASS-THRU HOT FOOD HOLDING CABINET	208	1	15.5	0	3224	X			NEW PANEL CL-1R	A99,101	3 #12 & 1 #12 GRD.	3/4"	AD-01
59	1	ICE MACHINE	120	1	11.9	0	1428	X			NEW PANEL CL-2	B32	2 #12 & 1 #12 GRD.	3/4"	
63	1	POPCORN POPPER	120	1	9.9	0	1188	X					EXISTING	EX.	CONNECT TO EXISTING NEARBY RECEPTACLE.
64	1	REFRIGERATED PREP TABLE	120	1	3.5	0.5	420	X			NEW PANEL CL-2	B40	2 #12 & 1 #12 GRD.	3/4"	
66	1	DIGITAL COUNTERTOP IMPINGER	208	1	27	0	5616	X			NEW PANEL CL-2	B42,44	2 #12 & 1 #12 GRD.	3/4"	
72	1	HOT/COLD/FREEZE FOOD TABLE	120	1	16	0	1920	X					EXISTING	EX.	CONNECT TO EXISTING NEARBY RECEPTACLE.
73	1	SERVING COUNTER, SOLID TOP	120	1	16	0	1920	X				AD-01	EXISTING	EX.	CONNECT TO EXISTING NEARBY RECEPTACLE.
73	1	SERVING COUNTER, SOLID TOP	120	1	16	0	1920	X			NEW PANEL CL-2	B48	2 #12 & 1 #12 GRD.	3/4"	
74	1	DISPLAY REFRIGERATOR	120	1	10	0.25	1200	X					EXISTING	EX.	CONNECT TO EXISTING NEARBY RECEPTACLE.
75	1	POS SYSTEM	120	1	12	0	1440	X					EXISTING	EX.	CONNECT TO EXISTING NEARBY RECEPTACLE.
81	1	CLOTHES WASHER	120	1	16	0	1920	X			NEW PANEL CL-2	B24	2 #12 & 1 #12 GRD.	3/4"	
82	1	CLOTHES DRYER	208	1	24	0	4992	X			NEW PANEL CL-2	B26,28	3 #10 & 1 #10 GRD.	3/4"	
83	1	COFFEE BREWER	208	1	12.8	0	2662.4		X		NEW PANEL CL-2	B34,36	3 #12 & 1 #12 GRD.	3/4"	

NOTES:
1. REFER TO THE KITCHEN PLANS FOR MOUNTING HEIGHTS.

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

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DRAWING
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PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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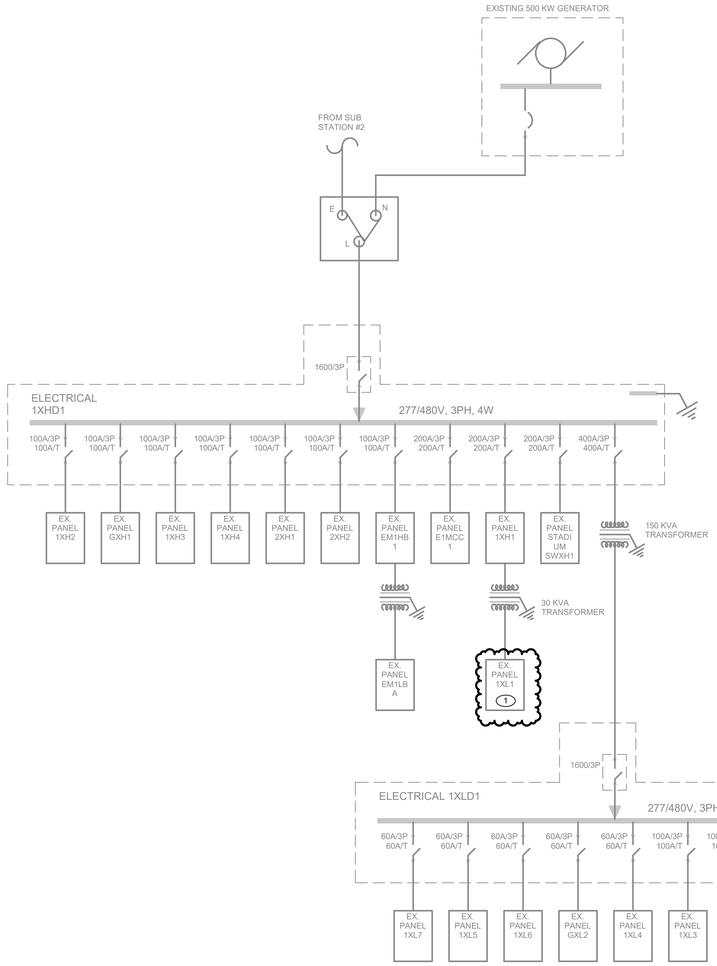
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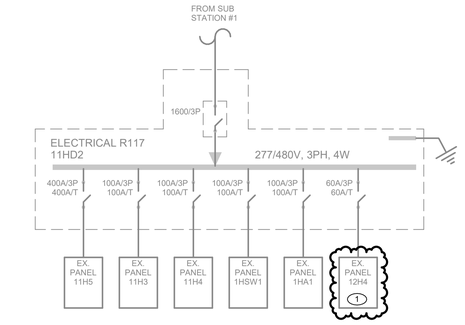
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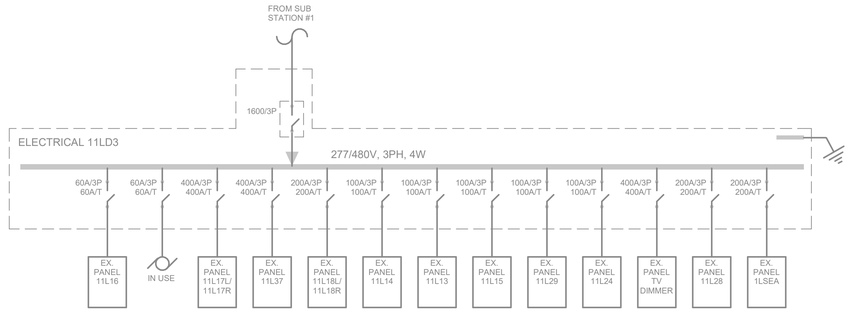
ELECTRICAL ONE-LINE SCHEMATIC DIAGRAM

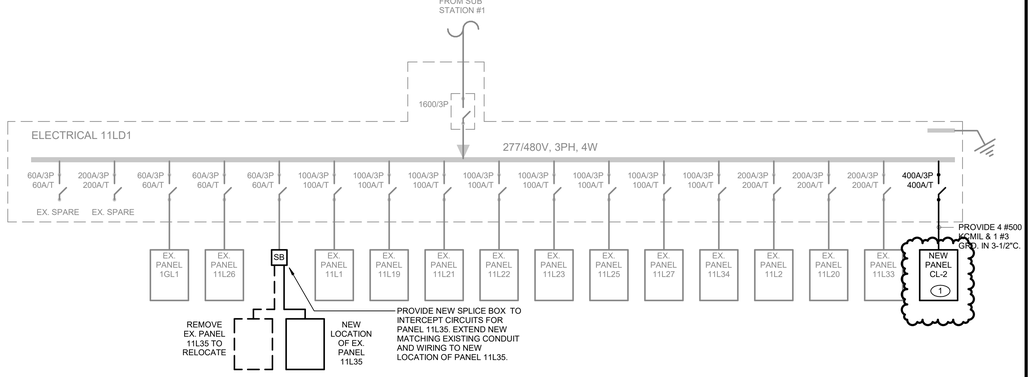
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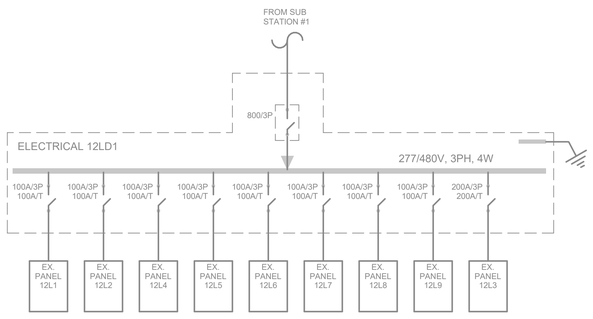
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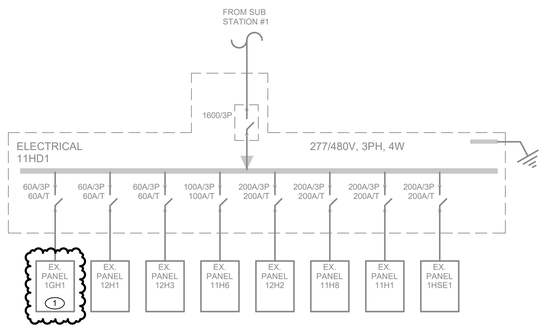


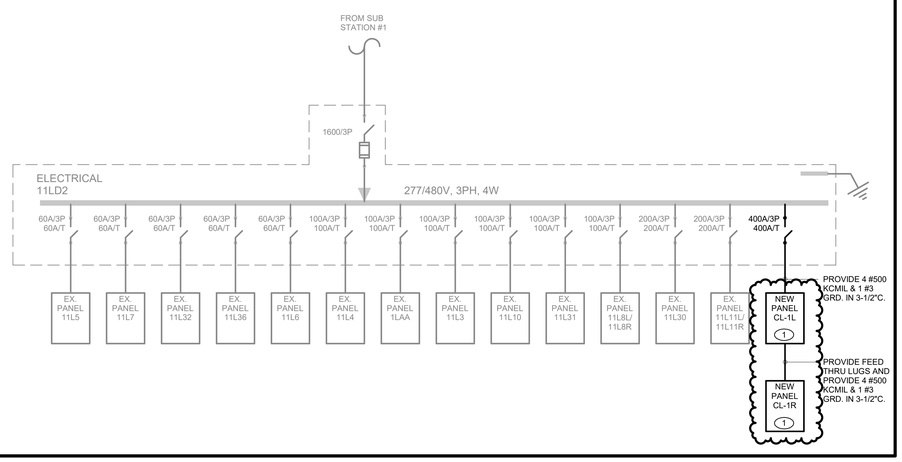












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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
RH
DRAWN BY
BR
CHECKED BY
DJ

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

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01

DRAWING
ELECTRICAL DETAILS & DIAGRAMS

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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TECHNOLOGY SYMBOL LIST

SECURITY

CA — CARD ACCESS CONTROLLER - PROVIDE BACK BOX MOUNTED 42" A.F.F. WITH 3/4"C. ROUTED TO THE ACCESSIBLE CEILING SPACE. REFER TO THE DOOR ACCESS DETAIL FOR ADDITIONAL INFORMATION.

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L — ELECTRIC DOOR STRIKE - STUB 3/4" 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.

SURVEILLANCE CAMERA -INTERIOR CEILING MOUNTED DOME CAMERA - PROVIDE 2-GANG BACK BOX WITH DUPLEX DATA OUTLET WITH 3/4"C. ROUTED TO THE ACCESSIBLE CEILING SPACE. REFER TO THE DUPLEX DATA OUTLET SYMBOL FOR ADDITIONAL INFORMATION.

SURVEILLANCE CAMERA - INTERIOR WALL MOUNTED DOME CAMERA - PROVIDE 2-GANG BACK BOX WITH DUPLEX DATA OUTLET WITH 3/4"C. ROUTED TO THE ACCESSIBLE CEILING SPACE. REFER TO THE DUPLEX DATA OUTLET SYMBOL FOR ADDITIONAL INFORMATION.

DC — SECURITY SYSTEM DOOR CONTACT - ROUGH-IN ONLY - ROUTE 3/4"C FROM THE ACCESSIBLE CEILING SPACE AND STUB INTO THE DOOR MULLION.

WP — EXTERIOR 180 DEGREE SURVEILLANCE CAMERA - PROVIDE EXTERIOR CAMERA WITH WALL MOUNT BRACKET, HEATER AND DOME - MOUNTED 12'-0" A.F.F., VERIFY HEIGHT IN FIELD. PROVIDE 2-GANG BACK BOX WITH ISOLATION PARTITION TO PROVIDE LOW VOLTAGE AND 120V IN SAME BACK BOX. COORDINATE EXACT BACK BOX CONFIGURATION WITH CAMERA MOUNT TO ENSURE BACK BOX IS LOCATED CONCEALED BEHIND ARM MOUNTING PLATE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

DIS — DISPLAY CAMERA CANNON CR-N300 - INTERIOR CEILING MOUNTED PTZ CAMERA - PROVIDE DUPLEX OUTLET MOUNTED IN A STAINLESS STEEL CEILING TILE COVER PLATE. PROVIDE SEPARATE 2-GANG BACK BOX WITH HDMI INPUT. ROUTE 4K HDMI CABLE FROM THIS COVER PLATE, THROUGH THE CONDUIT TO THE TEACHING STATION AND LEAVE 10' SLACK LENGTH FOR CONNECTION TO THE TEACHER'S PC.

COMMUNICATIONS

DUPLEX DATA OUTLET - WITH 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING - MOUNTED 18" A.F.F. WHEN MOUNTED ADJACENT TO AN ELECTRICAL RECEPTACLE OR AS NOTED. PROVIDE CAT-6 PLENUM CABLE, FROM EACH JACK, TO NEAREST IDF OR MDF LOCATION INDICATED ON PLANS. TERMINATE WITH RJ-45 JACK. TEST AND LEAVE 10' SLACK LENGTH.

WT — DUPLEX DATA OUTLET FOR WIRELESS ACCESS POINTS - LOCATED ABOVE ACCESSIBLE CEILING SPACE AND 6" ABOVE THE GRID OR TIGHT TO THE ROOF DECK WHERE NO CEILINGS EXIST. PROVIDE 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. PROVIDE CAT-6 PLENUM CABLE, FROM EACH JACK, TO NEAREST MDF OR IDF LOCATION INDICATED ON PLANS. TERMINATE WITH RJ-45 CAT-6 JACK, TEST AND LEAVE 10' SLACK LENGTH.

FLUSH IN WALL "TV" PANEL CONSISTING WITH SEPARATE 2-GANG BACK BOX WITH DATA JACK AND CABLING BACK TO IDF/MDF AS INDICATED IN THE DATA JACK SYMBOL. STUB 1" CONDUIT TO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. MOUNT DEVICE AT 7'-0" A.F.F. AND COORDINATE MOUNTING HEIGHT WITH THEA RCHITECTURAL ELEVATIONS.

WALL MOUNTED PROJECTOR LOCATION WITH SEPARATE BACK BOX WITH LOW VOLTAGE JACKS AND COVERPLATE. SUPPORT BOXES FROM STRUCTURE WITH UNISTRUT AS REQUIRED. SEE TEACHER STATION AND PROJECTOR DETAIL FOR ADDITIONAL INFORMATION.

CEILING MOUNTED PROJECTOR LOCATION WITH SEPARATE BACK BOX WITH LOW VOLTAGE JACKS AND COVERPLATE. SUPPORT BOXES FROM STRUCTURE WITH UNISTRUT AS REQUIRED. SEE TEACHER STATION AND PROJECTOR DETAILS FOR ADDITIONAL INFORMATION.

WM — WIREMOLD #RFBA4 SERIES FLUSH FLOOR BOX WITH TWO (2) DATA JACKS. PROVIDE CAT-6 PLENUM CABLE, FROM EACH JACK, TO NEAREST IDF OR MDF LOCATION INDICATED ON PLANS. TERMINATE WITH RJ-45 JACK. TEST AND LEAVE 10' SLACK LENGTH. STUB 1-1/4" CONDUITS FROM THE LOW VOLTAGE SECTION OF THE OF THE BOX TO THE ACCESSIBLE CEILING SPACE. PROVIDE SCRUB-RESISTANT COVER AND COORDINATE FINISH WITH ARCHITECT.

S AV — AV CEILING SPEAKERS - WITH AIR PLENUM BACK BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. MOUNT IN SURFACE BOX WHERE NO CEILINGS EXIST. REFER TO LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION ON MEETING ROOM AV SYSTEM.

S — INTERCOM CEILING SPEAKERS - WITH AIR PLENUM BACK BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. MOUNT IN SURFACE BOX WHERE NO CEILINGS EXIST. PROVIDE WHITE ATLASIED SDT2W 8" DUAL CONE RECESSED CEILING MOUNTED LOUDSPEAKER WITH TRANSFORMER AND BAFFLE. EXTEND MANUFACTURER'S REQUIRED WIRING TO THE EXISTING INTERCOM SPEAKER NETWORK IN THIS AREA AND CONNECT. PROVIDE ALL PROGRAMMING AS REQUIRED TO INTERFACE TO THE EXISTING INTERCOM SYSTEM.

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INTERCOM PRIVACY CALL-IN SWITCH - MOUNTED 42" A.F.F. PROVIDE 2-GANG BACK BOX WITH SINGLE GANG MUD RING WITH 3/4" CONDUIT ROUTED TO THE ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

WALL MOUNTED DIGITAL CLOCK/SPEAKER UNIT. PROVIDE BACK BOX WITH 3/4" CONDUIT ROUTED TO THE ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. SEE SPECIFICATIONS FOR

TEACHER PANEL WITH TWO (2) DUPLEX RECEPTACLES. SEE TEACHER STATION AND PROJECTOR DETAIL FOR ADDITIONAL INFORMATION. REFER TO TECHNOLOGY SHEETS FOR

AD-01

WH — CARD ACCESS WIRELESS HUB, PROVIDE 1 CAT6 DATA, AND 1 120V POWER CONNECTION. PROVIDE (2) #14 TO ASSOCIATED PANIC HARDWARE.

LOW VOLTAGE GENERAL NOTES

1.00 PART 1 - GENERAL

1.01 SCOPE:

A. The General Provisions of the Contract, including Conditions of the Contract and Division 1 of the Contract Documents, apply to the work in this section.

B. Electrical Work General Provisions shall apply to the work specified in this section.

1.02 SCOPE OF WORK:

A. The contractor shall furnish equipment and labor necessary for and reasonably incidental to the complete installation of the communications systems as outlined in the following contract documents including, but not limited to:
   1. Data wiring systems.
   2. A/V switching matrix

B. Installation of the systems shall be as outlined in the following contract documents, including but not limited to:
   1. Submission of shop drawings, catalog sheets and samples for approval.
   2. Verification of dimensions and conditions at project site.
   3. Installation in accordance with contract documents, manufacturer's recommendations and applicable code requirements.
   4. Initial test and adjustments, written report, demonstration of systems for approval, participation in acceptance tests, final adjustments as required, and submission of final diagrams and Owner's manuals. Demonstration must be videotaped and two (2) copies provided to the Owner's Representative.
   5. Instruction of operating personnel. Provide a minimum of 4 hours of demonstration and instruction.
   6. Maintenance services for one (1) year following acceptance of systems.
   7. Auxilliary panels, etc. shall be stainless steel. Also, silkscreen graphics shall be provided as designed and approved.

C. Provide an A/V switching system that is stand alone for the meeting spaces:
   1. The switching matrix shall be capable of handling 10 inputs and providing 10 outputs. Every input station (located below each TV - see floor plan) shall have an HDMI cable run back to the master A/V station for connection. Where the quantity of A/V inputs exceeds the available inputs, the owner shall verify what locations are to be connected in the field and the remaining inputs shall be left, coiled neatly, for future connection if desired. Every TV and projector shall have an HDMI cable run back to the master A/V station for connection. Where the quantity of A/V outputs exceeds the available outputs, the owner shall verify what locations are to be connected in the field and the remaining outputs shall be left, coiled neatly, for future connection if desired. DTP converters shall be provided at the switching matrix for connection to the DTP inputs and outputs. Additionally, each TV shall have a separate HDMI connection to the input station below the TV and the projector shall have 2 HDMI inputs run to two of the input stations to be determined by the owner in field. The speaker system shall also be connected to one of the switching matrix outputs and the wireless microphone shall be connected to one of the switching matrix inputs.
   2. The touch screen controllers shall be capable of selecting any connected input and connecting it to any output in the space as well as selecting which input's sound is projected from the speaker system.
   3. The TV input stations shall either be two adjacent back boxes with the quad outlet and data components in their own compon cover plates with the data and 2 HDMI connections or shall be a single component with low voltage separators.

AD-01

D. Switching System
   1. Provide electrical boxes, conduit as required for the AVD system equipment. Furnish audio, video and data systems wiring and receptacles as indicated
      A. The access panels below each tv shall contain the devices shown in the meeting input station detail
      B. TV Panels - shall contain the devices shown in the meeting TV detail
      C. The panels shall be under a common cover plate and finished as directed
      D. All HDMI ports and cables shall be 4K Ultra HDMI
      E. Verify colors with Architect during shop drawing phase.
   2. AV System Cabling
      A. Provide UltraHD HDMI Cables for the local connections from access panels to their associated TV.
      B. Provide DTP extenders and DTP plenum cabling for all HDMI connections from the access panels or floor boxes or projectors to the AV controller.
   3. AV System
      A. Provide Extron DTP Crosspoint 108 4K Switching Matrix system with 10 inputs and 10 outputs
      B. Install all cabling, extenders, etc as required from each location to the switch and verify with the owner which locations shall be connected prior to final programming. Leave the remaining connections with enough spare cable length for future connection.
   4. Provide (2) 7" touchscreen controllers. Verify final location of these devices in the field.
      A. Verify exact locations in field with owner's IT representative and provide mounting hardware as required. Provide back boxes and recessed conduit stubbed into the accessible ceiling space for any wall mounted locations.
   5. Speakers
      A. Provide Bose 791 or approved equal ceiling speakers in EOC 22 with wiring, amplifiers, and all required hardware and cabling for connection to one switching matrix output.
      B. Provide (2) Bose 791 or approved equal ceiling speakers in Command Center 33 with wiring, amplifiers, and all required hardware and cabling for connection to one switching matrix output.
   6. Enclosure and Additional Components – typical for both locations.
      A. Provide wall mounted rack with tinted door and lock with sufficient space for all components and 20% spare.
      B. Provide network switch(es) as required.
      C. Provide Bluetooth and Aux (3.5mm) connectors.
      D. Provide processor, amplifiers, patch cords (types as required), DTP extenders, wiring, mounting accessories, cable managers, etc. as required for a complete and operating system.
      E. Verify all input and output locations with the owner prior to any programming.
      F. Provide all programming and owner training (minimum 6 hours).
      G. Wireless Microphones
         a. Provide one Shure WL185 lapel microphone and one Shure SLXD2/SM58 wireless handheld microphone for each meeting room (5 of each).
         b. Provide charging stations, batteries, transmitters, receivers, antennas, and all additional components as required to interface with the switching matrix
   7. Meeting room sound system
      A. Refer to sound system specification. Sound system shall be interfaced to the switching matrix.

1.03 STANDARDS:

A. The AV/TV equipment shall be installed in the conduit systems as indicated on the contract documents and hereinafter specified. The manufacturer's distributor shall guarantee the entire system for two (2) years against defects in material and workmanship.

B. Individual panels, housings and the entire system shall bear the label of Underwriters' Laboratories. Provide a complete set of operating instructions including circuit diagrams and other information necessary for proper installation, operation, and service maintenance.

1.04 FIELD QUALITY CONTROL:

A. The manufacturer's authorized representative shall perform a quality observation of final installation of systems herein specified and, in presence of contractor and Owner's Representative, perform a functional test of each system.

B. A written system certification verifying proper system operation shall be required prior to acceptance.

C. Show satisfactory evidence of maintaining a service organization capable of furnishing adequate observation and service to equipment and be prepared to offer service contract for maintenance of system after guarantee period.

2.00 DATA WIRING SYSTEMS:

2.01 DESCRIPTION:

A. Provide devices and wiring for installation of the computer/data/telephone wiring system as described herein and as shown on the contract documents.

B. Cabling, risers, station wiring, cross connects, outlets, patch panels and necessary devices shall conform to Category 6 or Level 7 standards as defined in EIA/TIA-568B, TSB-36 and TSB-40. All cabling shall be Category 6 unless specifically noted otherwise.

C. Contract documents are written for a Panduit/Panduit connectivity solution. Connectivity solutions manufactured by Leviton/Berk-Tek, Superior Essex/Ortronics, and Hubbell shall be considered equal if the equipment submitted is equal in each respect.

2.02 WORK BY OTHERS:

A. The Owner shall furnish and install the LAN file servers, network switches, and network electronics.

2.03 QUALITY ASSURANCES:

A. Items including wiring and required accessories for the data and telephone wiring system shall be designed to operate as a complete integrated system.

B. The system shall meet or exceed applicable state and local codes.

C. The data and telephone network wiring system shall meet U.L. standards.

D. Provide information indicating a minimum of five (5) years experience and a minimum of twenty (20) installations of this size and scope.

2.04 REQUIRED BID DOCUMENTS:

A. Submit with their bid the following additional information to determine the most responsive proposal to these contract documents:
   1. Documentation to support the experience requirements listed above. This documentation shall include the name of the project, contact person with telephone number, contract dollar amount, total data outlets, total telephone outlets, category of cable and project completion date. Failure to submit this required information may result in rejection of bid.

B. Submit with their bid the name and registration number of the RCDD on staff.

C. Submit proper documentation to prove manufacturer's certification for installation of products herein.

2.05 CONDITIONS OF AWARD:

A. The contract shall be awarded on the basis of the lowest and most responsive bid proposal complying with the contract documents and the following criteria:
   1. References.
   2. Experience with similar projects.
   3. Compliance with contract documents.
   4. Financial strength.

2.06 SUBMITTALS:

A. Furnish complete shop drawings on the various components of the system. These submittals shall include but not be limited to the following:
   1. Marked catalog sheets indicating part numbers and manufacturer.
   2. Riser diagram for entire data/telephone wiring system.
   3. Each drawing shall have a descriptive title and subparts of each drawing shall be completely described. Drawings shall have the name of the project and electronics contractor in the title block.
   4. Prior to final acceptance, submit three complete copies of an operating and maintenance manual for the systems.

2.07 DATA AND TELEPHONE STATION OUTLETS:

A. Provide a flush mounted modular data or telephone RJ45 jack to fit in a single gang box or in surface raceway for an 8-position/8-conductor configuration. The outlets shall meet transmission performance contract documents for category 6 as presented in EIA/TIA TSB-36 and TSB-40. The RJ45 jacks shall be keyed T568B.
   1. Data and telephone jacks shall be of one (1) manufacturer.
   2. The final installation shall be tested to meet the installed system overhead as published in literature from Panduit Corporation. Installation not meeting this requirement shall be completely removed and reinstalled with new product until these variables are met at frequencies.

B. Data frames shall contain 1-4 modular openings. These units to be the same manufacturer as the jacks.

2.08 DEVICE COLOR SELECTION

A. Determination of colors of devices provided within this section shall be made during the shop drawing process.

2.09 PATCH PANELS:

A. Provide 48 port 110 patch panels that meet transmission performance for category 6 or level 7 as outlined in EIA/TIA TSB-36 and TSB-40. The RJ45 jacks shall be keyed T568B (WECO). Provide 40% expansion capability.
   1. Standard: Panduit.

B. Provide both horizontal and vertical wire management devices to properly restrain and organize cables prior to installation. Provide one (1) for each patch panel.
   1. Standard: Panduit.
   2. Provide sufficient patch panels plus 40% expansion required to distinctly separate devices into the categories below. Verify with the owner prior to installing, and label all patch panels for each use.
      a. Wireless access point outlets
      b. Cameras & Security
      c. Data outlets & other misc. devices

2.10 DATA AND TELEPHONE CABLE:

A. Twisted pair (STP) extended distance plenum rated Lan cable ISOC 24 AWG category 6 or level 7. solid bare CU, FEP insulation, Flamarrest KJT, 4 pair, UL type CMP with transmission characteristics that exceed those in EIA/TIA TSB-36 and TSB-40 (category 6) and NEMA loss extended frequency 2. UTP cable may be provided for individual systems (Cameras, Data Jacks, etc) with written approval from the owner's vendors for each system. Provide a credit for any changes.
   1. The data and telephone cables shall be terminated at each outlet and on rack mounted patch panels in each IDF and the MDF.
   2. The telephone cables terminating in each IDF and MDF shall be cross connected to rack mounted patch panels with CAT-6 jacks.
   3. The final installation shall be tested to meet the installed system overhead as published in literature from Panduit Corporation. Installation not meeting this requirement shall be completely removed and reinstalled with new product until these variables are met at frequencies.

2.11 FIBER OPTIC CABLE (Backbone):

1.	Number of fibers	6 strand multimode
2.	Cable construction	Aramid yarn
3.	Jacket material & color:	Fluoropolymer & white
4.	Standard:	Lucent LightGuide
5.	Approved equal:	General or BerkTek

2.12 MULTI-PAIR TELEPHONE CABLE:

A. Provide one POTS line from the TTB to the EOC room and one POTS line to the command room. Provide all conduit and wiring. Verify the rough-in location in field with owner's IT representative and verify all cabling and jack requirements with the owner's IT representative (These are not shown on the drawings).

2.13 PATCH CORDS:

A. Provide patch cords as described below and as required prior to submittals.
   1. Provide (2) Category 6 patch cords per data outlet plus 20% spare, gray color with molded boots. Exact lengths to be determined prior to order, minimum 6'-0".
   2. Standard: Panduit
   3. Provide RJ45 to 110 patch cords as required in each MDF compliant with the transmission contract documents.
   4. Provide fiber patch cords in lengths required. Quantity (4).
   5. Standard: Panduit.

2.14 FIBER OPTIC CONNECTOR PANELS:

A. The fiber optic connector panels shall utilize field installable connectors and shall be mounted in 19" equipment racks.

B. The fiber optic connector panels shall accept up to (12) SC type interconnect sleeves.
   1. Standard: Panduit.

2.15 FIBER OPTIC TERMINATION:

A. Terminate fiber optic cables at each end utilizing epoxy type connectors.

B. Connections shall utilize an SC type stainless steel with ceramic ferrule and bend limiting strain relief. Plastic or composite interior construction is not acceptable.

2.16 DATA CABLE FINISHES:

A. Verify all owner standards with the owner's IT representative prior to ordering any cabling.

B. Finishes
   1. Cameras – YELLOW
   3. All Other Devices - BLUE

2.17 INSTALLATION:

A. Conduit, J-hooks, and raceways required for the computer data/telephone wiring system shall be provided and installed.

B. Conduits for the station outlets shall be installed from the outlet box and terminate above ceilings, with insulated bushings.

C. Verify that the computer data wiring runs do not exceed 90 meters prior to installation

D. Underground Installations:
   1. Provide underground warning tape along entire conduit length where not concrete-encased.
   2. Provide copper conductor for use with toning location in conduit systems where only nonmetallic fiber optic cables are installed.

2.18 AC POWER:

A. Each cabinet shall be provided with two (2) 120 volt, 20 amp dedicated isolated ground circuits with outlet per diagram.

B. At the telephone MDF install four (4) dedicated 120 volt, 20 amp isolated ground circuits on outlets per diagram.

2.19 LABELS:

A. Computer data and telephone outlets shall be clearly machine labeled.

B. Verify all labeling requirements and standards with owner's IT representative prior to proceeding.

C. Prior to installation of cabling, obtain approved room numbering legend. Do not terminate cable prior to receiving written instructions as to labeling sequence. Cable terminated prior to receiving these written instructions shall be reterminated at no additional cost.

2.20 DATA AND TELEPHONE STATION OUTLETS:

A. Each RJ45 jack shall have one (1) 4 pair cable terminated at the outlet and the termination cabinet.

B. Four (4) pair UTP shall be terminated on a patch panel in the IDF or MDF.

C. Provide quantity of RJ45 jacks as shown on the contract documents.

2.21 TESTING:

A. UTP plenum rated cable shall be tested utilizing a Microtest Omniscanner or equivalent test instrument. Test results shall be provided in print and on CD-ROM for review.

B. Fiber optic cables shall be tested for end-to-end attenuation and perform OTDR testing for signature trace documentation and benchmark performance records. Test results shall be provided digitally.

C. Cable found defective or not in compliance with contract documents shall be replaced at no expense within 7 days of determination.

2.22 WARRANTY

A. Warrant that the system complies to contract documents and shall issue equipment certification stating that the equipment and connected wiring which form the specified system have a Category 6, 25 year application assurance and extended product warranty certified by the manufacturer and in compliance with EIA/TIA 568, 569 and BICCSI standards.
   1. Approved manufacturers: Panduit. Submit alternate manufacturers for review minimum 7 days prior to completion of bids.

3.00 PART 5 - EXECUTION:

3.01 GENERAL:

A. Furnish equipment, accessories and material required for installation of the systems in accordance with these contract documents.

B. Components and system shall meet or exceed minimal standards issued by EIA. Work in conjunction with this installation shall meet provisions of National Electric Code and applicable local codes.

3.02 INSTALLATION:

A. Provide conduit and wire as shown and as specified in other sections.

B. Provide equipment as indicated on contract documents. Verify location and orientation prior to rough-in.

3.03 ADJUSTMENT AND CLEANING:

A. Clean system equipment and cabinets of dirt and debris.

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(29) 914-8400
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PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
MERRILLVILLE, IN, 46410

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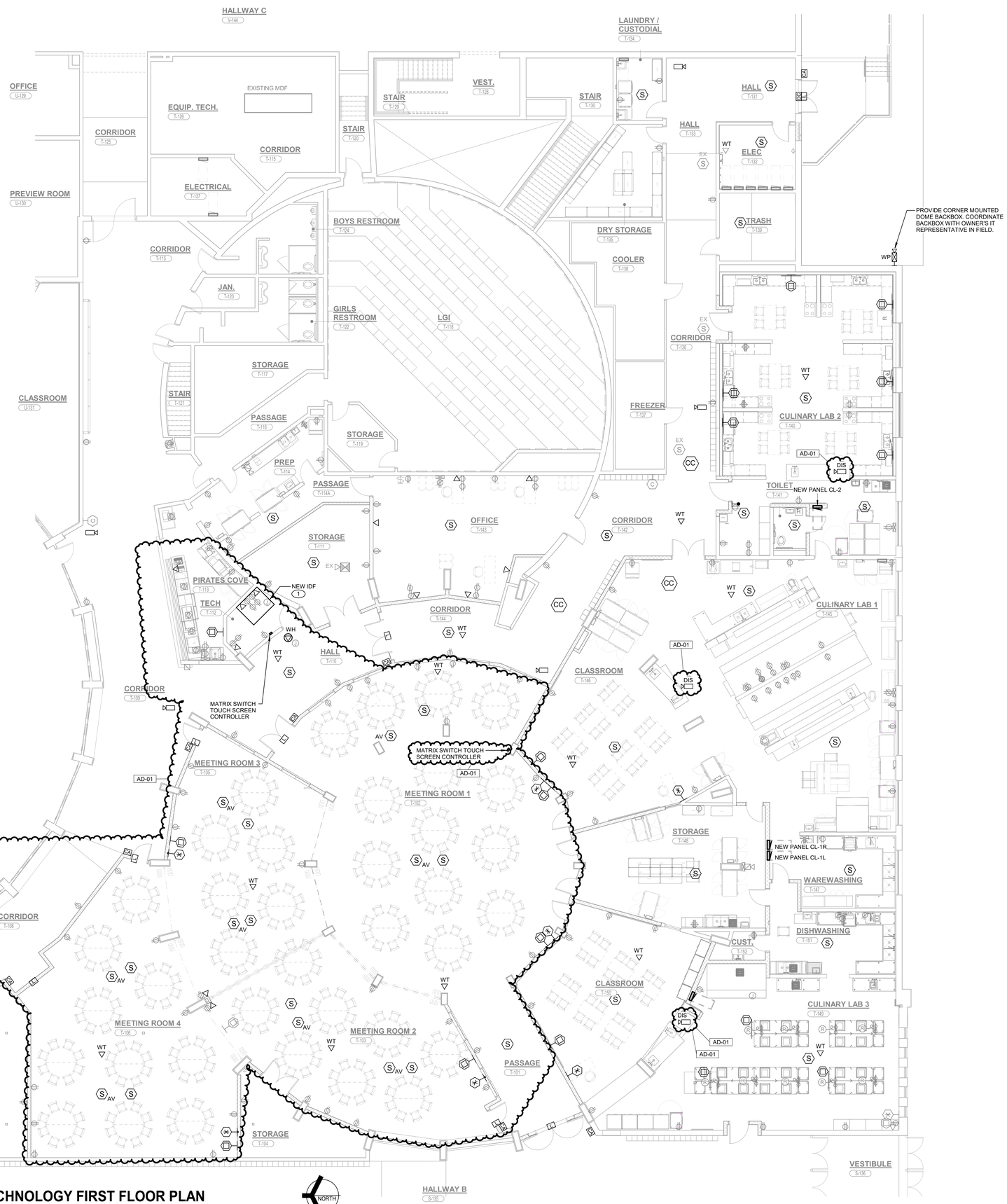
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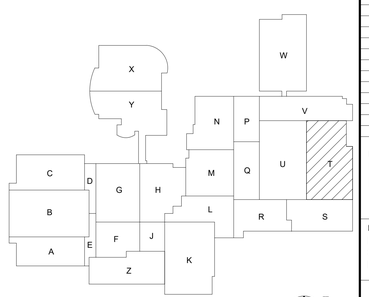
SHEET NOTES

1. ROUTE (1) 12-STRAND SM FIBER TO EXISTING MDF IN 1" INNERDUCT CONDUIT. PROVIDE PANDUIT FIBER PATCH PANEL, SPLICE TRAY AND PATCH CORDS. PROVIDE SFP TRANSCEIVERS WHERE REQUIRED.

AD-01

1 T-121 **UNIT "T" TECHNOLOGY FIRST FLOOR PLAN**

1/8" = 1'-0"



KEY PLAN

NORTH

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ARCHITECTURE - ENGINEERING - INTERIOR DESIGN

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UNIT "T" TECHNOLOGY FIRST FLOOR PLAN

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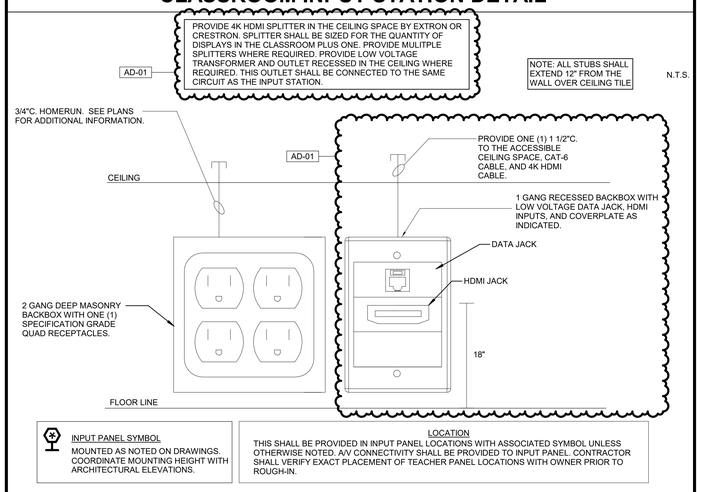
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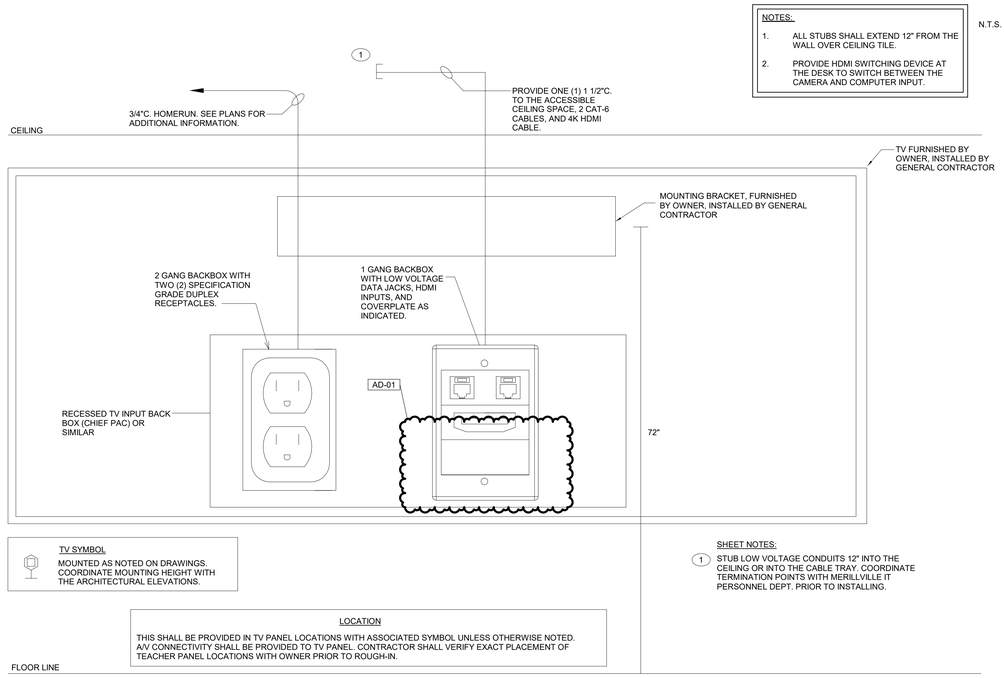
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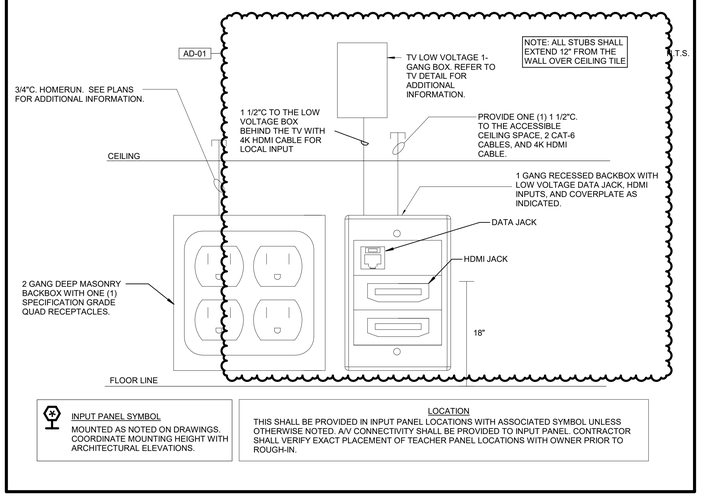
CLASSROOM INPUT STATION DETAIL



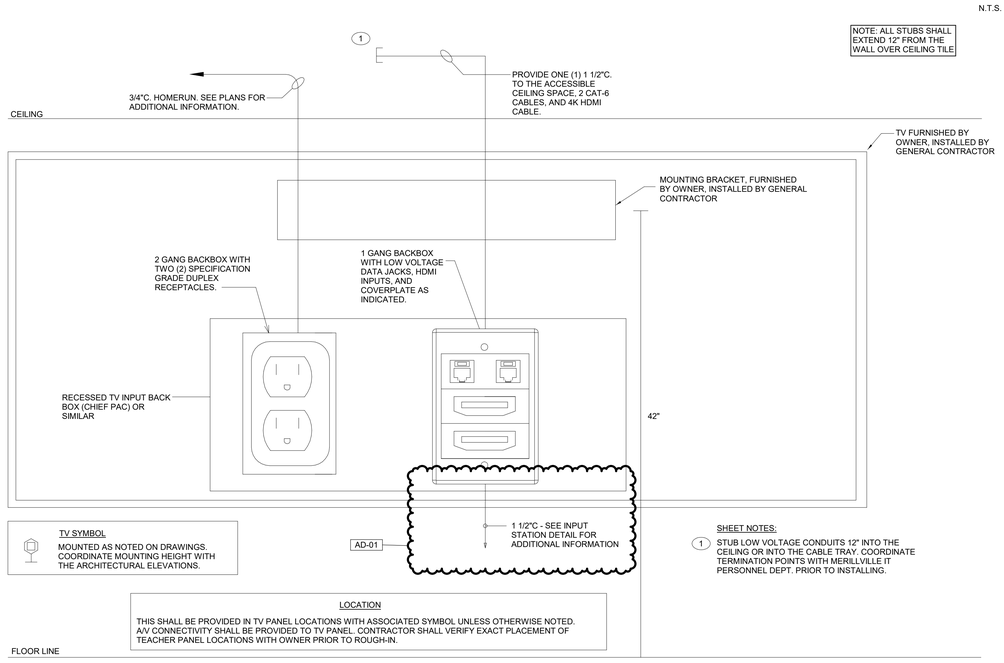
CLASSROOM TV STATION DETAIL



MEETING ROOM INPUT STATION DETAIL



MEETING ROOM TV STATION DETAIL



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PROJECT:

MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
276 E 68TH PLACE
MERRILLVILLE, IN, 46410

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PROJECT
25-181
DATE
07/14/26
COORDINATED BY
RH
DRAWN BY
BR
CHECKED BY
DJ

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

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DRAWING
TECHNOLOGY DETAILS & DIAGRAMS

PROJECT
MERRILLVILLE HIGH SCHOOL CULINARY AND MEETING AREA RENOVATIONS

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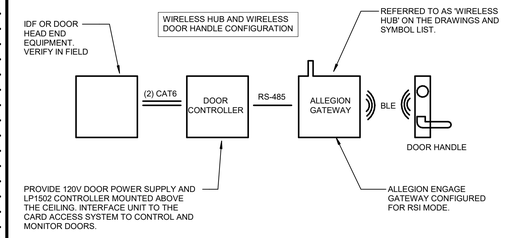
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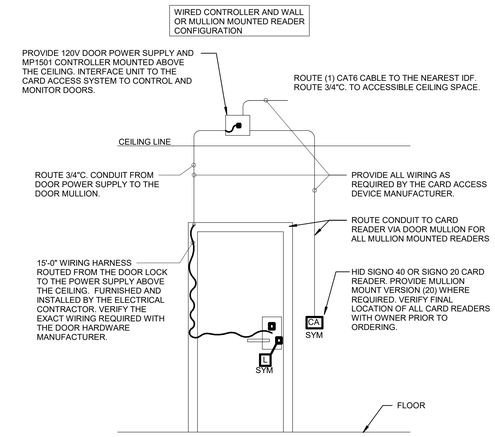
ACCESS CONTROL WIRING DIAGRAM

AD-01

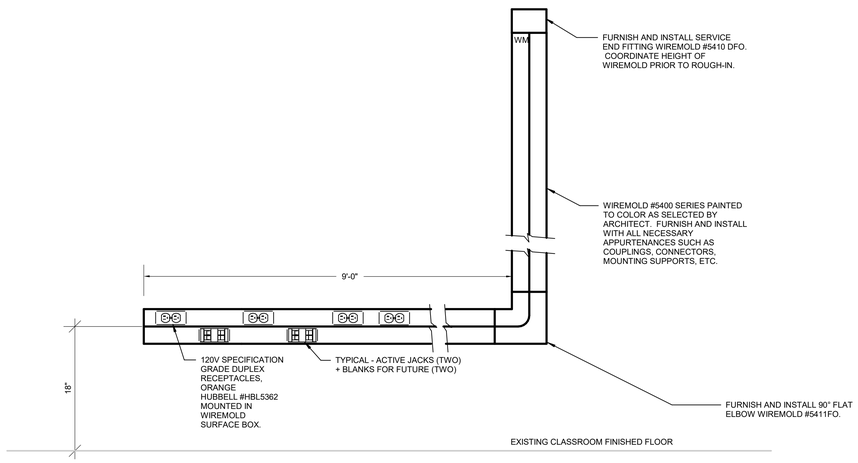


NOTES:

1. PROVIDE 12V OR 24V TRANSFORMERS AS REQUIRED.
2. VERIFY ALL DEVICE LOCATIONS IN FIELD AND PROVIDE ALL WIRING, CONDUIT, JACKS, AND TERMINATIONS AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
3. PROVIDE (1) MERCURY MP1502 DOOR CONTROLLER AND (2) ASSOCIATED CARD READERS AND DOOR STRIKES FOR THE DOORS AS SHOWN. INTERFACE TO EXISTING DOOR CONTROLLER SYSTEM. VERIFY EXACT LOCATION IN FIELD. REFER TO ACCESS CONTROL WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
4. PROVIDE ALL PROGRAMMING AS REQUIRED TO INTERFACE THE NEW DOOR CONTROLLERS INTO THE EXISTING DOOR CONTROL SERVERS. PROVIDE ALL SOFTWARE, UPGRADES, PROGRAMMING, INTERFACING, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
5. SUBMIT SHOP DRAWING FOR ALL CARD ACCESS CONTROLS. SHOP DRAWING SHALL INCLUDE A FLOOR PLAN MARKUP INDICATING ALL DEVICE LOCATIONS WITH PART NUMBERS AND A COMPLETE WIRING DIAGRAM.
6. ALL 120V POWER SHALL BE CONNECTED TO ONE NEW 20A/1P CIRCUIT BREAKER IN EXISTING PANEL SRL.



WIREMOLD DETAIL



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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
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TYPICAL.

3 AD101

EXISTING NORTH ELEVATION

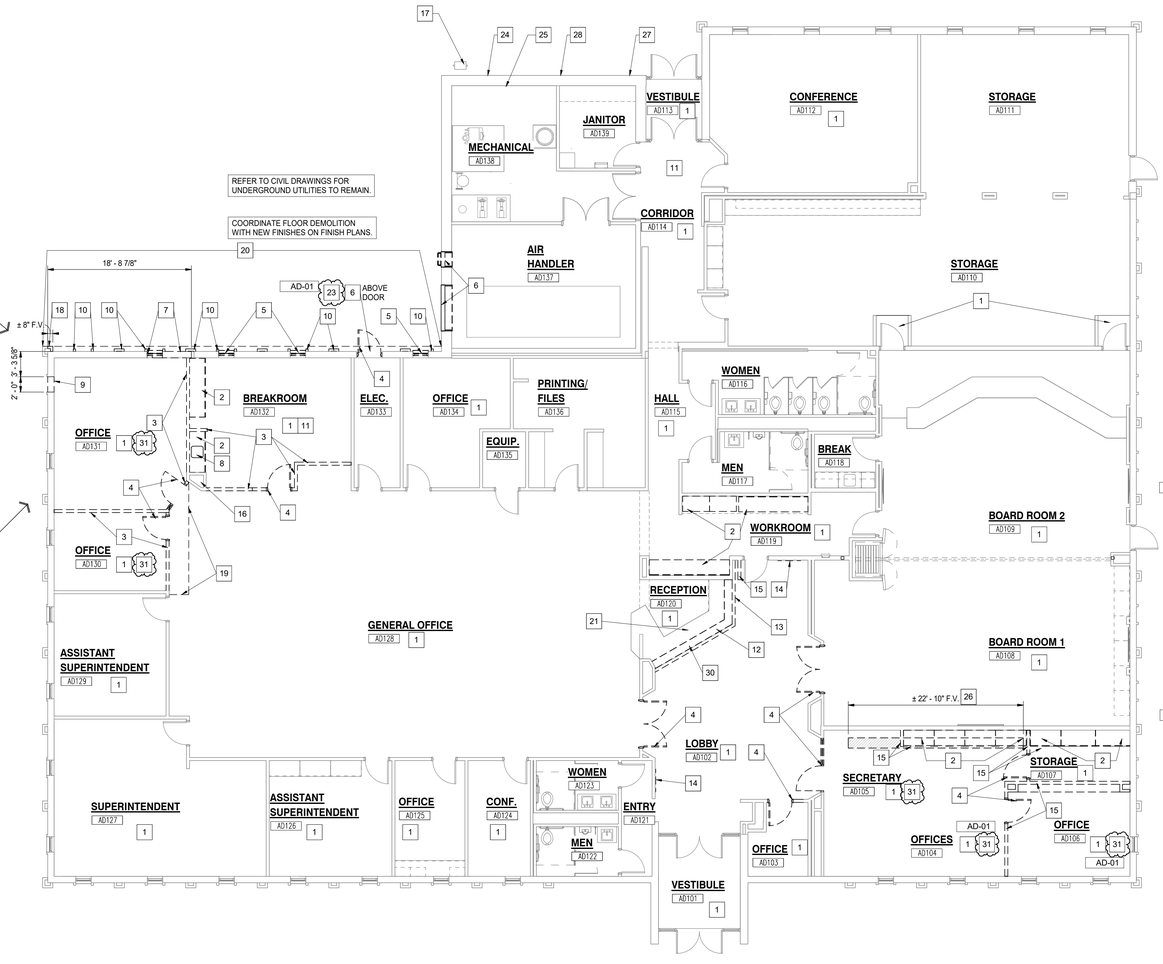
SCALE: NONE



2 AD101

EXISTING WEST ELEVATION

SCALE: NONE



1 AD101

ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN

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

GENERAL DEMOLITION NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO G SERIES SHEETS.

B. UNLESS NOTED OTHERWISE ON THIS SHEET, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL WORK INDICATED ON THIS SHEET.

C. CONTRACTORS ENCOUNTERING EXISTING MATERIAL WHICH IS SUSPECTED OF CONTAINING ASBESTOS SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND THE OWNERS REPRESENTATIVE.

D. BOLD DASHED LINES INDICATE EXISTING ITEMS TO BE REMOVED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXTENT OF DEMOLITION WORK PRIOR TO BIDDING AND FOR COORDINATING THE EXTENT OF DEMOLITION WITH THE INSTALLATION OF NEW SYSTEMS.

E. EACH CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION APPLICABLE TO THEIR SCOPE OF WORK AND REQUIRED FOR INSTALLATION OF NEW WORK WHETHER OR NOT IT IS SPECIFICALLY INDICATED OR NOTED IN THESE DOCUMENTS.

F. VERIFY ITEMS DEEMED OBSOLETE WITH ARCHITECT PRIOR TO REMOVAL. REFER TO NEW CONSTRUCTION DRAWINGS FOR DEMOLITION REQUIRED NOT SHOWN ON DEMOLITION PLANS.

G. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR OFF SITE REMOVAL OF ALL DEMOLITION MATERIALS AND/OR ITEMS UNLESS NOTED OTHERWISE OR DIRECTED BY THE OWNER.

H. PRIOR TO STARTING DEMOLITION, CONSTRUCT DUST CONTROL BARRIERS TO PREVENT THE SPREAD OF DUST INTO SURROUNDING AREAS. (WHERE APPLICABLE)

I. WHERE BUILDING EGRESS IS REQUIRED TO PASS THROUGH DEMOLITION AREAS, PROVIDE APPROVED BARRIERS, ETC. TO ENSURE SAFETY OF THE PUBLIC.

J. RELOCATED ITEMS SHALL BE CLEANED AND PLACED IN STORAGE, PER OWNERS' DIRECTION, UNTIL ITEMS ARE READY TO BE INSTALLED. IF ITEMS ARE DAMAGED DURING DEMOLITION OR RELOCATION, THEY SHALL BE REPAIRED OR REPLACED WITH NEW ITEMS AS APPROVED.

K. DEMOLITION SHALL BE PERFORMED WITHOUT DAMAGE TO EXISTING CONSTRUCTION TO REMAIN. WHERE SUCH DAMAGE OCCURS, PATCH, REPAIR, OR RESTORE WALLS, FLOORS, CEILING, ETC. NEATLY TO MATCH EXISTING ADJACENT SURFACE. PROVIDE SHORING, BRACING, OR SUPPORT TO PREVENT MOVEMENT OR SETTLEMENT OF EXISTING STRUCTURES.

L. EACH CONTRACTOR IS RESPONSIBLE FOR CUTTING, PATCHING, AND DISCONNECTION OF ITEMS APPLICABLE TO THEIR SCOPE OF WORK. WHERE EXISTING SERVICES ARE ABANDONED, CAP AT LEAST 1" BEHIND NEW FINISHES AND/OR EXISTING SURFACE AND PATCH TO RECEIVE NEW FINISHES OR MATCH EXISTING FINISH.

M. ON WALLS THAT ARE TO RECEIVE NEW FINISHES, REMOVE AND REINSTALL EXISTING EQUIPMENT TO REMAIN FOR INSTALLATION OF NEW FINISHES.

N. WHERE WALLS OR BULKHEADS ARE REMOVED, PATCH FLOORS, CEILINGS, AND ADJACENT WALLS TO MATCH EXISTING OR RECEIVE NEW FINISHES WHERE APPLICABLE. WHERE EXISTING DUCTWORK, PIPING, OR EQUIPMENT IS REMOVED, PATCH OPENINGS AND/OR SURFACES TO MATCH ADJACENT SURFACES OR RECEIVE NEW FINISHES WHERE APPLICABLE. REFER TO ALL DEMOLITION DRAWINGS FOR EXTENT OF ITEMS TO REMOVED.

O. OVER CUT NEW OPENINGS IN EXISTING WALL REQUIRED FOR NEW CONSTRUCTION. PATCH AND REPAIR WALLS TO MATCH EXISTING. WHERE APPLICABLE, TOOTH NEW MASONRY INTO EXISTING MASONRY.

P. ALL EQUIPMENT AND FURNITURE WHICH ARE CONSIDERED LOOSE FURNISHING SHALL BE REMOVED BY THE OWNER PRIOR TO DEMOLITION.

Q. MASONRY WALLS TO BE REMOVED SHALL BE REMOVED TO A POINT 2" MINIMUM BELOW THE EXISTING FLOOR SLAB UNLESS SETTING ON A SLAB OR SPECIFICALLY NOTED OTHERWISE. PATCH WITH NEW CONCRETE TO BE FLUSH WITH THE EXISTING FLOOR SLAB.

R. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL REVIEW OF DEMOLITION NOTES AND GENERAL DEMOLITION NOTES AS THEY APPLY TO THEIR SCOPE OF WORK.

S. THE OWNER SHALL RESERVE THE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE.

T. REFER TO THE STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND TECHNOLOGY DOCUMENTS FOR COMPLETE SCOPE OF DEMOLITION WORK.

U. "FLOORING" DENOTES FLOOR COVERING MATERIALS INCLUDING BACKING, ADHESIVES, AND BASES DOWN TO BUT EXCLUSIVE OF FLOOR SLABS AND STRUCTURAL MATERIALS UNLESS NOTED OTHERWISE.

V. DEMOLITION IS TO FOLLOW ESTABLISHED CONSTRUCTION SEQUENCE. REFER TO SPECIFICATIONS AND DRAWINGS FOR REQUIREMENTS AND SPECIAL CONDITIONS.

W. WHERE APPLICABLE SALVAGE EXISTING MASONRY (FACE BRICK, GLAZED CMU, FACING TILE) FOR PATCHING AND INFILL IN RENOVATED AREAS WHERE INDICATED. DISCARD UNUSED PORTION OFF SITE.

X. ALL ROOMS RECEIVING NEW FLOOR AND BASE SHOULD HAVE EXISTING FLOORING AND BASE REMOVED IN ITS ENTIRETY. PREPARE FLOOR FOR NEW FINISHES.

DEMOLITION PLAN NOTES:

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

1 REMOVE CARPET FLOORING SYSTEM AND BASE IN ITS ENTIRETY. PREPARE FLOOR FOR NEW FINISHES.
2 REMOVE CASEWORK IN ITS ENTIRETY. PATCH AND REPAIR WALL AND FLOOR TO ACCEPT NEW FINISHES. REFER TO INTERIOR SHEETS.
3 REMOVE WOOD STUD AND PLASTER/GYPSUM BOARD WALL IN ITS ENTIRETY. PATCH AND REPAIR ADJACENT WALL AND FLOOR TO ACCEPT NEW FINISHES.
4 REMOVE HOLLOW METAL DOOR, FRAME AND HARDWARE IN ITS ENTIRETY.
5 REMOVE WINDOW IN ITS ENTIRETY. SALVAGE STONE SILL FOR REUSE.
6 REMOVE LOUVER IN ITS ENTIRETY. REFER TO MECHANICAL DRAWINGS.
7 REMOVE MASONRY WALL TO 8" BELOW FLOOR SLAB FOR NEW PASSAGE. REFER TO A-101.
8 REMOVE PLUMBING FIXTURE IN ITS ENTIRETY. CUT AND CAP LINE BELOW WALL OR FLOOR SURFACE. UNLESS OTHERWISE NOTED ON PLUMBING DRAWINGS. PATCH AND REPAIR FLOOR TO ACCEPT NEW FINISHES.
9 REMOVE GYPSUM BOARD AND STUD WALL INCLUDING FACE BRICK TO INSTALL NEW WINDOW WITH JACK AND KING STUDS AND HEADER. SALVAGE BRICK.
10 REMOVE MASONRY PILASTER IN ITS ENTIRETY. PATCH WALL, TYPICAL ON NORTH WALL.
11 REMOVE VCT FLOORING SYSTEM AND BASE IN ITS ENTIRETY. PREPARE FLOOR FOR NEW FINISHES.
12 REMOVE UPPER COUNTER ONLY, BASE CABINETS TO REMAIN.
13 REMOVE ACCORDIAN PARTITION SYSTEM IN ITS ENTIRETY. PATCH WALL AND BULKHEAD. PREP FOR NEW FINISHES.
14 REMOVE DISPLAY CASE IN ITS ENTIRETY.
15 REMOVE WOOD STUD AND PLASTER/GYPSUM BOARD WALL AND BULKHEAD IN ITS ENTIRETY. PATCH AND REPAIR ADJACENT WALL AND FLOOR TO ACCEPT NEW FINISHES.
AD-01 16 APPROXIMATE LOCATION OF EXISTING ROOF CONDUCTOR. COORDINATE WITH PLUMBING.
17 APPROXIMATE LOCATION OF EXISTING NATURAL GAS METER TO REMAIN. PROTECT.
18 REMOVE PORTION OF MASONRY PILASTER. PREP FOR NEW EXTERIOR WALL.
19 REMOVE PORTION OF CEILING GRID. COORDINATE WITH REFLECTED CEILING PLAN.
20 REMOVE METAL FASCIA AND SOFFIT IN ITS ENTIRETY. SAWCUT AND REMOVE ROOF PARAPET AND ROOF STRUCTURE FLUSH TO EXTERIOR OF EXISTING WOOD STUD BEARING WALL.
21 EXISTING LOW COUNTER TO REMAIN PROTECT.
22 REMOVE TREE AND STRIP SOIL. REFER TO CIVIL
23 REMOVE LIGHT FIXTURE REFER TO ELECTRICAL.
24 EXISTING FIRE DEPARTMENT CONNECTION.
25 APPROXIMATE LOCATION OF SPRINKLER RISER.
26 SAWCUT AND REMOVE CONCRETE SLAB FOR NEW SANITARY LINE. REFER TO PLUMBING DRAWINGS FOR EXTENTS OF TRENCH.
27 EXISTING KNOX BOX TO REMAIN.
28 EXISTING HOSE BIBB TO REMAIN.
29 SALVAGE LIMESTONE SILL FOR REUSE AT NEW WINDOW.
30 REMOVE PORTION OF PLASTER/GYPSUM BOARD BLUKHEAD TO INSTALL SLIDING WINDOW TRACK.
AD-01 31 REMOVE SUSPENDED ACOUSTICAL CEILING SYSTEM IN ITS ENTIRETY.

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PROJECT:

MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
6701 DELAWARE ST
MERRILLVILLE, IN, 46410

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PROJECT 26-110
DATE 07/14/26
COORDINATED BY CLS
DRAWN BY CJA, JKF
CHECKED BY CLS NAS

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

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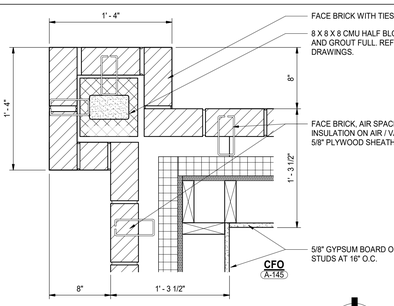
DRAWING
ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN

PROJECT
MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

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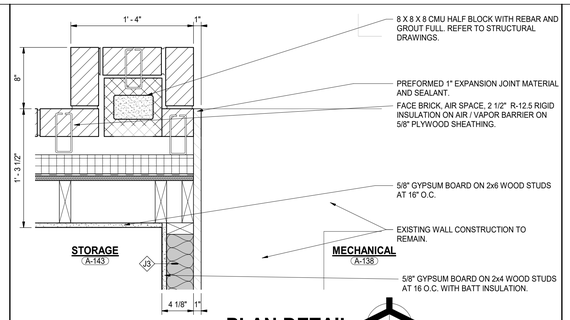
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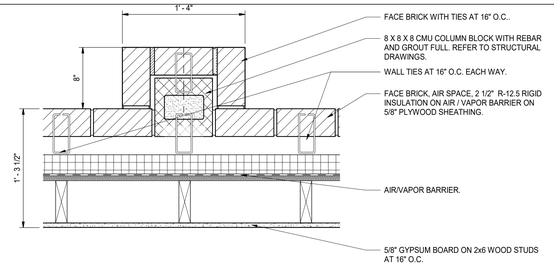
4 A-101 **PLAN DETAIL**

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



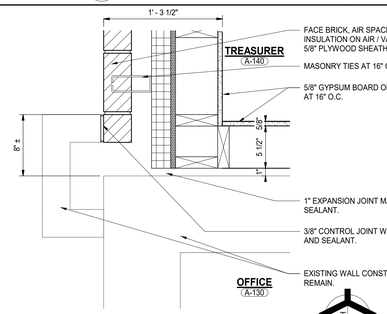
3 A-101 **PLAN DETAIL**

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



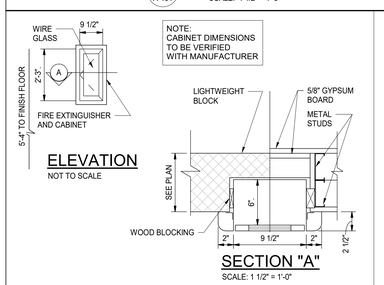
2 A-101 **PLAN DETAIL: TYPICAL**

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



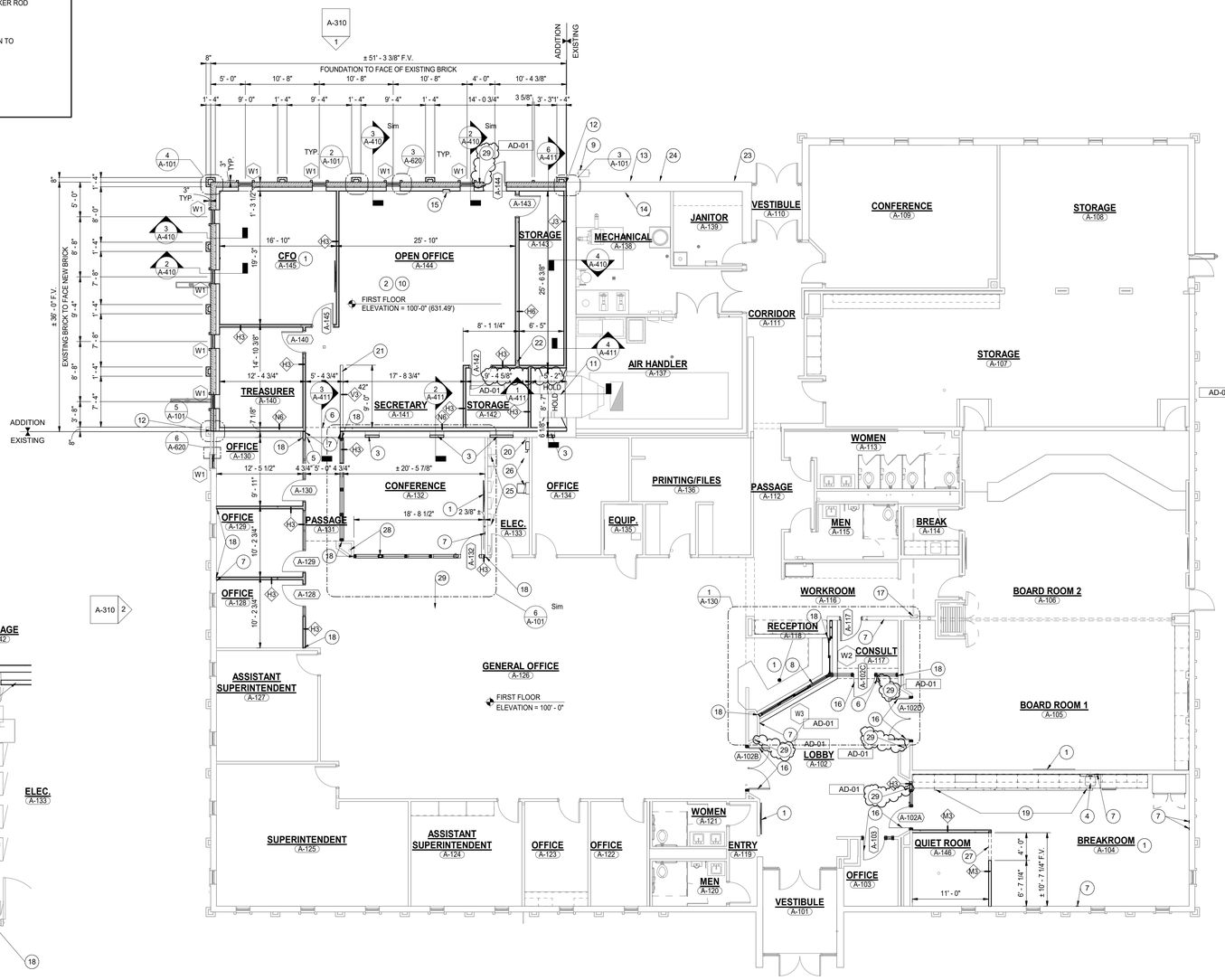
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SCALE: 1 1/2" = 1'-0"



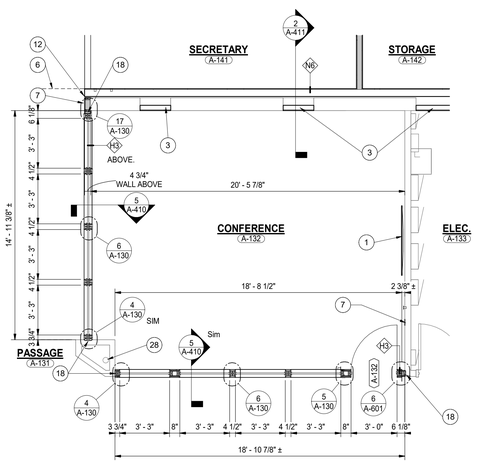
SEMI-RECESSED FIRE EXTINGUISHER CABINET

7 A-101 SCALE: 1 1/2" = 1'-0"



1 A-101 **ARCHITECTURAL FIRST FLOOR PLAN**

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



6 A-101 **CONFERENCE A-132**

SCALE: 1/4" = 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". 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. VERIFY MOUNTING HEIGHTS OF ACCESSORIES, EQUIPMENT, CASEWORK, ETC. AND PROVIDE FIRE TREATED WOOD BLOCKING (OR METAL STRAPPING WHERE INDICATED) WITHIN METAL STUD WALLS FOR ALL 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 DEMOLITION SHEETS FOR ADDITIONAL PATCHING AND REPAIR WORK.

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

M. PROVIDE SEALANT BETWEEN DISSIMILAR MATERIALS SUCH AS GYPSUM BOARD, MASONRY AND CONCRETE, COUNTERTOPS AND WALLS, ETC.

N. REFER TO FINISH PLANS FOR INTERIOR ELEVATIONS, LOCATION, AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.

O. REFER TO EQUIPMENT PLANS FOR CASEWORK, DISPLAY BOARDS, LOCKERS, AND OTHER ADDITIONAL TYPICAL EQUIPMENT NOTES AND INFORMATION.

P. REFER TO A-140 FOR ENLARGED TOILET ROOM PLANS AND TOILET ACCESSORIES.

ARCHITECTURAL PLAN NOTES: (1)

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

1 CASEWORK, MILLWORK, MARKER/TACK BOARDS AND EQUIPMENT. REFER TO A700 SERIES DRAWINGS.
2 CONCRETE SLAB ON VAPOR BARRIER ON COMPACTED FILL. REFER TO STRUCTURAL DRAWINGS.
3 INFILL FORMER WINDOW OR LOUVER OPENING WITH 5/8" GYPSUM BOARD ON 2x4 FRAMING AT 16" O.C. WITH ACOUSTICAL BATT INSULATION. FLUSH WITH NEW WITH EXISTING.
4 NEW PLUMBING FIXTURE. REFER TO PLUMBING DRAWINGS.
5 FLOOR THRESHOLD. REFER TO A-800 SERIES DRAWINGS.
6 BULKHEAD ABOVE. REFER TO A-901 SHEET.
7 PATCH WALL TO MATCH ADJOINING FINISHES WHERE WALL OR CASEWORK HAS BEEN REMOVED.
8 CENTER WINDOW ON HIGH COUNTER. REFER TO SECTION.
9 APPROXIMATE LOCATION OF EXISTING NATURAL GAS METER TO REMAIN. PROTECT.
10 REFER TO A700 SERIES DRAWINGS FOR EQUIPMENT PLANS AND A800 SERIES DRAWINGS FOR FINISHES.
11 MECHANICAL DUCT IN NEW CHASE. REFER TO MECHANICAL DRAWINGS.
12 1" EXPANSION JOINT WITH BACKER ROD AND SEALANT WITH COVER PLATE.
13 EXISTING FIRE DEPARTMENT CONNECTION TO REMAIN.
14 EXISTING SPRINKLER RISER TO REMAIN.
15 FIRE EXTINGUISHER AND CABINET.
16 UNDERCUT DOOR TO FIT NEW CUSTOM WOOD FRAME. SEAL CUT PORTION OF DOOR.
17 EXISTING FIRE EXTINGUISHER AND CABINET TO REMAIN.
18 REMOVE GYPSUM BOARD TO INSTALL WOOD BLOCKING. PATCH / REPAIR MATCH EXISTING.
19 INFILL TRENCH WITH 4" CONCRETE ON 15MIL VAPOR BARRIER ON COMPACTED FILL. DOWELL INTO EXISTING SLAB REFER TO STRUCTURAL.
20 APPROXIMATE LOCATION OF EXISTING ROOF CONDUCTOR. FIELD VERIFY AND REPORT TO ARCHITECT ITS LOCATION TO CONFIRM MULLION PLACEMENT.
21 42"H HALF HEIGHT WALL.
22 ROOF LEADER / CONDUCTOR. REFER TO PLUMBING DRAWINGS.
23 EXISTING KNOX BOX TO REMAIN.
24 EXISTING HOSE BIBB TO REMAIN.
25 EXISTING ELECTRICAL EQUIPMENT REFER TO ELECTRICAL.
26 ELECTRICAL EQUIPMENT REFER TO ELECTRICAL.
27 3'-0" X 7'-0" OPENING WITH 5/8" GYPSUM BOARD JAMBS AND HEAD.
28 APPROXIMATE LOCATION OF EXISTING ROOF CONDUCTOR. COORDINATE WITH PLUMBING.
29 CARD READER. REFER TO ELECTRICAL AND TECHNOLOGY DRAWINGS.

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PROJECT:

MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
6701 DELAWARE ST
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PROJECT
26-110
DATE
07/14/26
COORDINATED BY
CS
DRAWN BY
CJA, JKF
CHECKED BY
CS

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

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MARK	DATE	ISSUED FOR
AD-01	Date 1	ADDENDUM 01

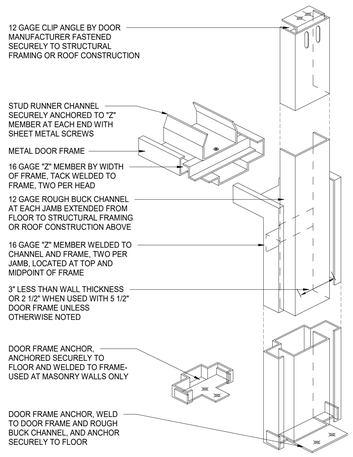
DRAWING
ARCHITECTURAL FIRST FLOOR PLAN

PROJECT
MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

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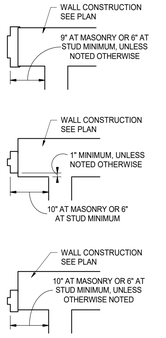
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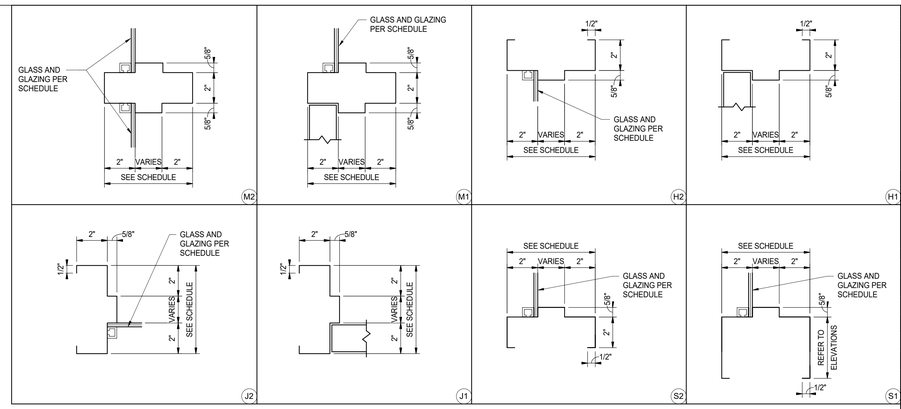
TYPICAL HEAD & JAMB ANCHORAGE

12 / A-601 SCALE: NTS



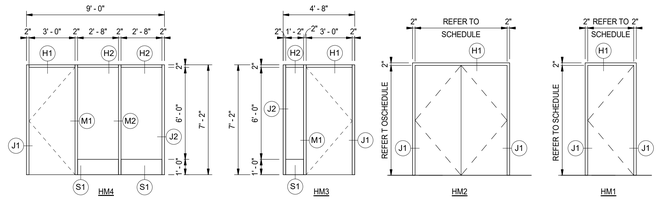
FRAME MOUNTING

11 / A-601 SCALE: 3/4" = 1'-0"



HOLLOW METAL (HM) FRAME PROFILES

10 / A-601 SCALE: 3" = 1'-0"

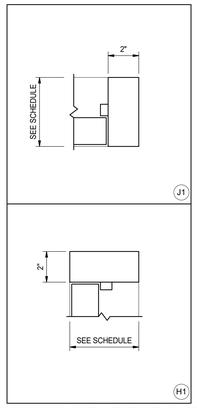


FRAME ELEVATIONS (HM)

9 / A-601 SCALE: 1/4" = 1'-0"

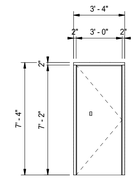
NOTES - HOLLOW METAL (HM)

1. FOR HOLLOW METAL HEAD, JAMB AND SILL DETAILS REFER TO WALL SECTIONS AND HOLLOW METAL (HM) FRAME PROFILES .
2. PROVIDE SEALANT AROUND PERIMETER OF ALL FRAMES.
3. DIMENSIONS SHOWN ARE NOMINAL. FIELD VERIFY ALL DIMENSIONS SHOWN PRIOR TO FABRICATION AND INSTALLATION.
4. JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. SEE ROOM FINISH SCHEDULE FOR WALL FINISHES.
5. PROVIDE GLAZING AND GLASS STOPS AS REQUIRED.



ALUMINUM STOREFRONT (SF) FRAME PROFILES

8 / A-601 SCALE: 3" = 1'-0"



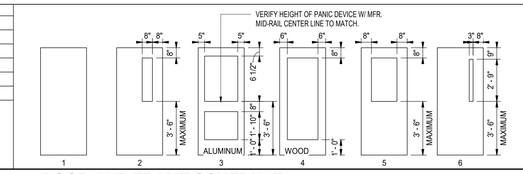
NOTES - ALUMINUM STOREFRONT (SF)

1. FOR STOREFRONT HEAD, JAMB AND SILL DETAILS REFER TO WALL SECTIONS AND ALUMINUM STOREFRONT (SF) FRAME PROFILES .
2. PROVIDE SHIM SPACE, BACKER ROD, AND SEALANT AROUND PERIMETER OF ALL FRAMES WHERE FRAMING ABUTS DISSIMILAR MATERIAL.
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. ALL MULLIONS TO BE PROFILE M2 UNLESS NOTED OTHERWISE.
9. PROVIDE 3/4"x3/4" ALUMINUM SCRIBE MOLD AT PERIMETER OF BOTH SIDES ON ALL FRAMES UNLESS NOTED OTHERWISE. SET SCRIBE MOLDS IN SEALANT.

ALUMINUM STOREFRONTELEVATIONS (SF)

7 / A-601 SCALE: 1/4" = 1'-0"

GLASS SCHEDULE	
MK	GLASS TYPES
A	1/4" TEMPERED (CLEAR)
B	1" INSUL. GLASS (CLEAR)
C	1" INSUL. GLASS (TINTED)
D	1/2" LAMINATED
S	SPANDREL



DOOR AND FRAME SCHEDULE

NO.	DESCRIPTION	TYPE	DOOR W	DOOR H	DOOR MAT'L	GLASS DOOR	GLASS SIDE LGT	GLASS TRA	FRAME MAT'L	FRAME DEPTH	FRAME ELEV.	LABEL	HARDWARE CLOSER	HARDWARE EXIT DEVICE	NOTES
A-102A	SINGLE	4	3' - 0"	7' - 0"	WD	A	--	--	WD	6 1/4"	WD2	--	Yes		2, 6
A-102B	DOUBLE	4	6' - 0"	7' - 0"	WD	A	--	--	WD	6 1/4"	WD1	--	Yes	Yes	1, 2, 3, 6, 7
A-102C	SINGLE	4	3' - 0"	6' - 11 5/8"	WD	A	--	--	WD	5"	WD3	--			2, 6
A-102D	DOUBLE	4	6' - 0"	7' - 0"	WD	A	--	--	WD	6 1/4"	WD1	--	Yes	Yes	1, 2, 3, 6, 7
A-103	SINGLE	4	3' - 0"	7' - 0"	WD	A	--	--	WD	6 1/4"	WD5	--			
A-117	EXISTING		3' - 0"	7' - 0"						--					2, 6
A-128	SINGLE	4	3' - 0"	7' - 0"	WD	A	--	--	HM	5 7/8"	HM3	--			
A-129	SINGLE	4	3' - 0"	7' - 0"	WD	A	--	--	HM	5 7/8"	HM4	--			
A-130	SINGLE	4	3' - 0"	7' - 0"	WD	A	--	--	HM	5 7/8"	HM4	--			
A-132	SINGLE	4	3' - 0"	7' - 0"	WD	A	--	--	WD	6 1/4"	WD4	--			
A-140	SINGLE	4	3' - 0"	7' - 0"	WD	A	--	--	HM	5 7/8"	HM1	--			
A-142	SINGLE	1	3' - 0"	7' - 0"	WD	--	--	--	HM	5 7/8"	HM1	--			
A-143	SINGLE	1	3' - 0"	7' - 0"	WD	--	--	--	HM	7 7/8"	HM1	--			
A-144	SINGLE	1	3' - 0"	7' - 2"	ALUM	--	--	--	ALUM	6"	SF1	--	Yes	Yes	1, 2, 4, 5, 6
A-145	SINGLE	4	3' - 0"	7' - 0"	WD	A	--	--	HM	5 7/8"	HM1	--			

GENERAL DOOR NOTES:

A. JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. SEE A-800 SERIES DRAWINGS FOR FINISHES.

B. SEAL ALL JAMBS AND HEADS WHERE FRAMES MEET EXPOSED MASONRY AND/OR GYPSUM BOARD.

C. PROVIDE A 3/4"x3/4" SCRIBE MOLD AT ALL EXTERIOR DOOR FRAMES AND WHERE NOTED ON DRAWINGS. METAL AT EXTERIOR OF METAL FRAMES AND AT BOTH SIDES OF ALUMINUM FRAMES. SET SCRIBE MOLDS IN SEALANT.

D. PROVIDE GLAZING AND GLASS STOPS AS REQUIRED.

E. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS.

F. SHIM SPACE IS NOT SHOWN ON FRAME ELEVATIONS FOR ALUMINUM STOREFRONT. TAKE THESE DIMENSIONS INTO ACCOUNT AND ADJUST DIMENSIONS ACCORDINGLY.

G. FOR DOOR POSITION WITHIN WALL REFER TO FRAME MOUNTING DETAILS , , , .

H. FOR ELECTRIC ROUGH-IN AT DOORS REFER TO DETAIL .

I. FOR HOLLOW METAL FRAME ELEVATIONS (HM) REFER TO . FOR HOLLOW METAL (HM) FRAME PROFILES REFER TO .

J. FOR ALUMINUM STOREFRONT ELEVATIONS (SF) REFER TO . FOR STOREFRONT (SF) FRAME PROFILES REFER TO .

K. GLASS NOTED IN DOOR COLUMN FOR BORROWED LIGHT FRAMES APPLIES TO ALL OPENINGS IN FRAME, UNLESS NOTED OTHERWISE. REFER TO FRAME ELEVATIONS.

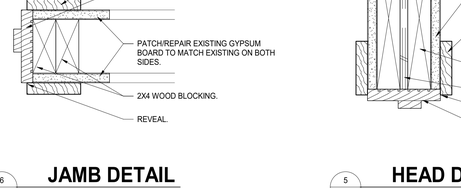
L. REFER TO FLOOR PLANS FOR LOCATIONS OF ADA PUSH PADS FOR POWER ASSISTED OPERATORS.

M. WHERE FRAMES INDICATE 2 OR MORE OPENINGS FOR DOORS, EACH SINGLE OR PAIR OF DOORS IS SCHEDULED SEPARATELY AND FRAME INDICATED.

N. REFER TO FRAME ELEVATIONS FOR HEAD, JAMB, AND SILL DETAILS.

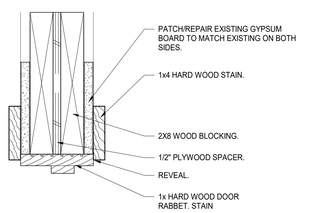
DOOR SCHEDULE NOTES (REMARKS):

1. PANIC DEVICE OR LATCH TO HAVE ELECTRIC LATCH BOLT. PREPARE FRAME FOR ELECTRIFIED HINGE.
2. DOOR TO BE PREPARED TO BE CONTROLLED BY CARD READER/FOB. REFER TO ELECTRICAL DRAWINGS FOR ROUGH-IN.
3. PROVIDE DOOR BUZZER.
4. PROVIDE ALUMINUM THRESHOLD SET IN FULL BED OF MASTIC.
5. INTEGRAL CONCEALED ROD PANIC HARDWARE.
6. PROVIDE AN ELECTRIC STRIKE.
7. PROVIDE ELECTROMAGNETIC DOOR HOLDER(S).



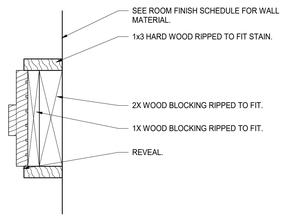
JAMB DETAIL

6 / A-601 SCALE: 3" = 1'-0"



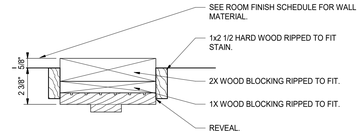
HEAD DETAIL

5 / A-601 SCALE: 3" = 1'-0"



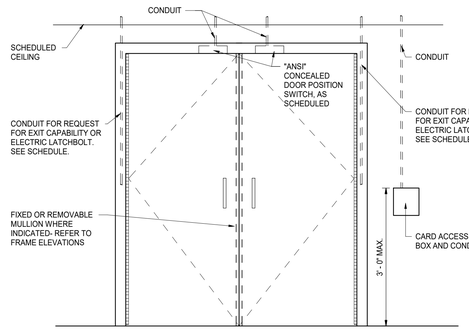
JAMB DETAIL

4 / A-601 SCALE: 3" = 1'-0"



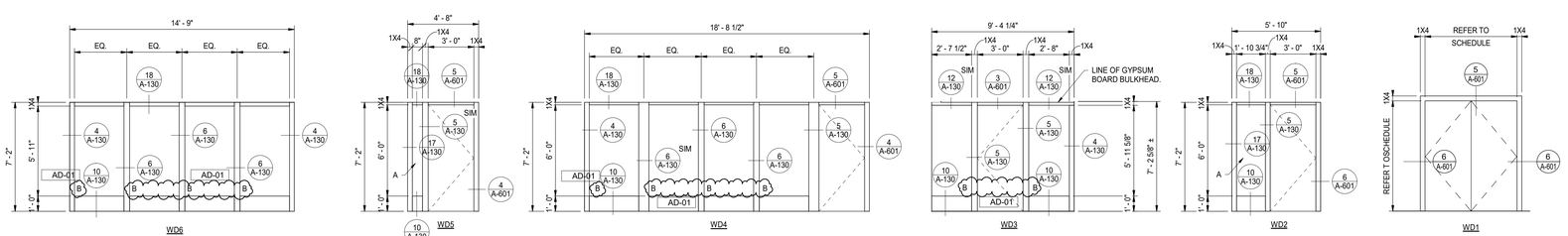
HEAD DETAIL

3 / A-601 SCALE: 3" = 1'-0"



TYPICAL ELECT ROUGH/FRAME MOUNT

2 / A-601 SCALE: 3/4" = 1'-0"



WOOD FRAME ELEVATIONS

1 / A-601 SCALE: 1/4" = 1'-0"

NOTES - WOOD

1. PROVIDE SEALANT AROUND PERIMETER OF ALL FRAMES.
2. DIMENSIONS SHOWN ARE NOMINAL. FIELD VERIFY ALL DIMENSIONS SHOWN PRIOR TO FABRICATION AND INSTALLATION.
3. JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. SEE ROOM FINISH SCHEDULE FOR WALL FINISHES.
4. PROVIDE GLAZING AND GLASS STOPS AS REQUIRED.

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PROJECT:

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MERRILLVILLE COMMUNITY SCHOOL CORPORATION

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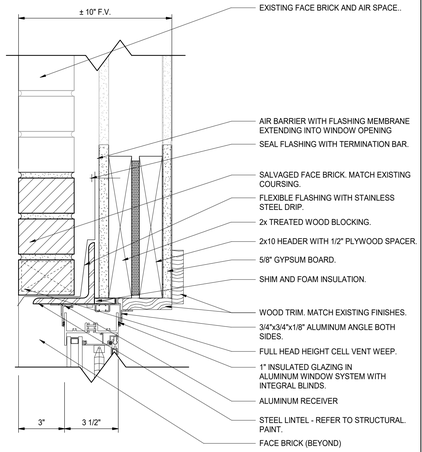
DRAWING
DOOR SCHEDULE, FRAME PROFILES, ELEVATIONS AND DETAILS

PROJECT
MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

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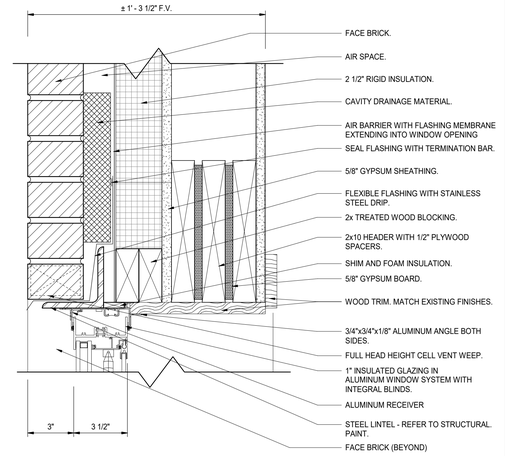
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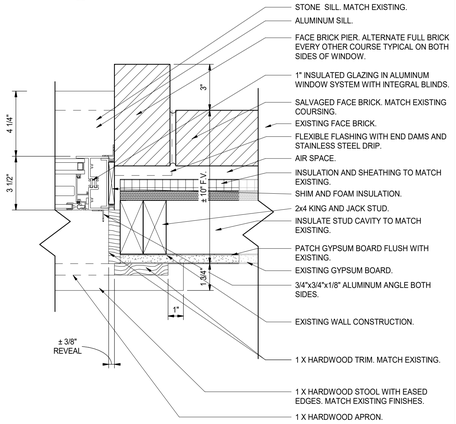
5 A-620 **STUD WINDOW HEAD**

SCALE: 3" = 1'-0"



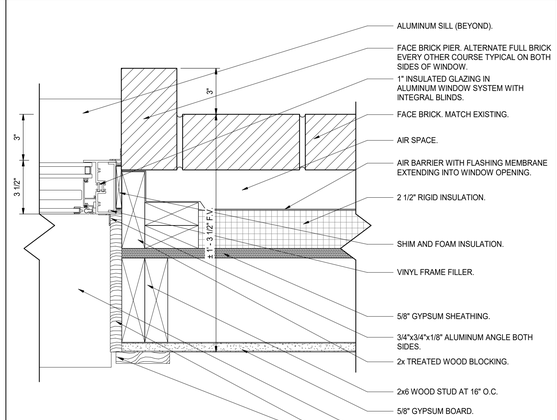
4 A-620 **DETAIL: HEAD**

SCALE: 3" = 1'-0"



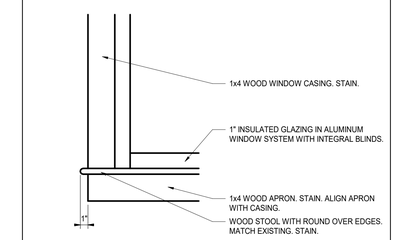
6 A-620 **DETAIL: JAMB**

SCALE: 3" = 1'-0"



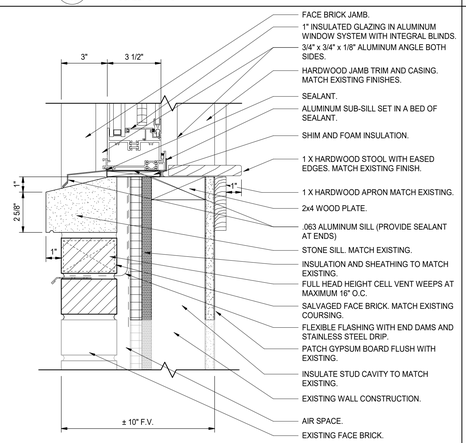
3 A-620 **STUD WINDOW JAMB**

SCALE: 3" = 1'-0"



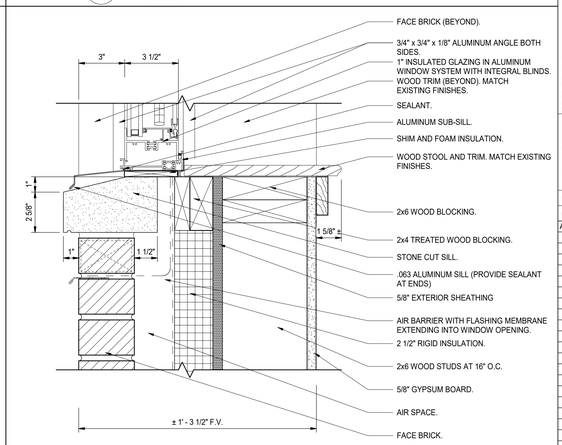
8 A-620 **DETAIL: TYPICAL WINDOW TRIM**

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



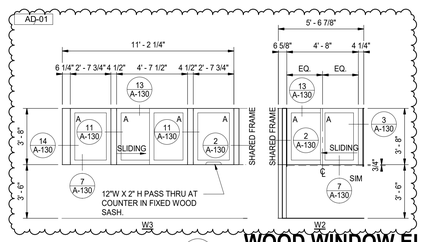
7 A-620 **DETAIL: SILL**

SCALE: 3" = 1'-0"



2 A-620 **STUD WINDOW SILL**

SCALE: 3" = 1'-0"

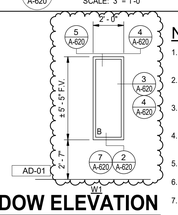


10 A-620 **WOOD WINDOW ELEVATIONS**

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

NOTES - WOOD WINDOWS (W)

1. PROVIDE SHIM SPACE, BACKER ROD AND SEALANT AROUND PERIMETER OF ALL WINDOW FRAMING WHERE FRAMING ABUTS DISSIMILAR MATERIALS.
2. PROVIDE FOAM INSULATION IN SHIM SPACE AROUND PERIMETER OF ALL EXTERIOR WINDOW FRAMING.
3. DIMENSIONS SHOWN ARE NOMINAL. FIELD VERIFY ALL DIMENSIONS SHOWN PRIOR TO FABRICATION AND INSTALLATION.
4. ALL FRAMES IN EXTERIOR WALLS SHALL BE THERMALLY BROKEN WITH 1" INSULATED GLAZING.
5. ALL GLAZING SHALL CONFORM TO STATE AND LOCAL CODES.
6. REFER TO BUILDING ELEVATIONS FOR HINGE SIDE LOCATIONS.



1 A-620 **WINDOW ELEVATION**

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

NOTES - ALUMINUM WINDOWS (W)

1. PROVIDE SHIM SPACE, BACKER ROD AND SEALANT AROUND PERIMETER OF ALL WINDOW FRAMING WHERE FRAMING ABUTS DISSIMILAR MATERIALS.
2. PROVIDE FOAM INSULATION IN SHIM SPACE AROUND PERIMETER OF ALL EXTERIOR WINDOW FRAMING.
3. DIMENSIONS SHOWN ARE NOMINAL. FIELD VERIFY ALL DIMENSIONS SHOWN PRIOR TO FABRICATION AND INSTALLATION.
4. ALL FRAMES IN EXTERIOR WALLS SHALL BE THERMALLY BROKEN WITH 1" INSULATED GLAZING.
5. ALL GLAZING SHALL CONFORM TO STATE AND LOCAL CODES.
6. REFER TO BUILDING ELEVATIONS FOR HINGE SIDE LOCATIONS.
7. PROVIDE 3/4"X3/4" ALUMINUM SCRIBE MOLD AT PERIMETER OF BOTH SIDES ON ALL WINDOWS UNLESS NOTED OTHERWISE. SET SCRIBE MOLDS IN SEALANT.

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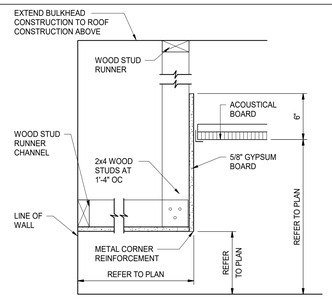
DRAWING
WINDOW ELEVATIONS AND DETAILS

PROJECT
MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

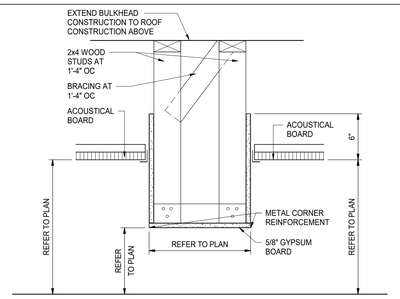
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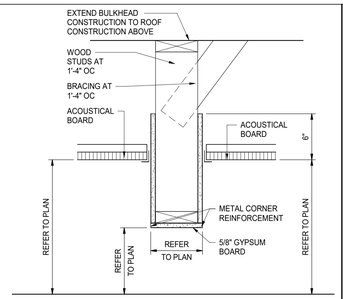
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DETAIL "C"



DETAIL "B"

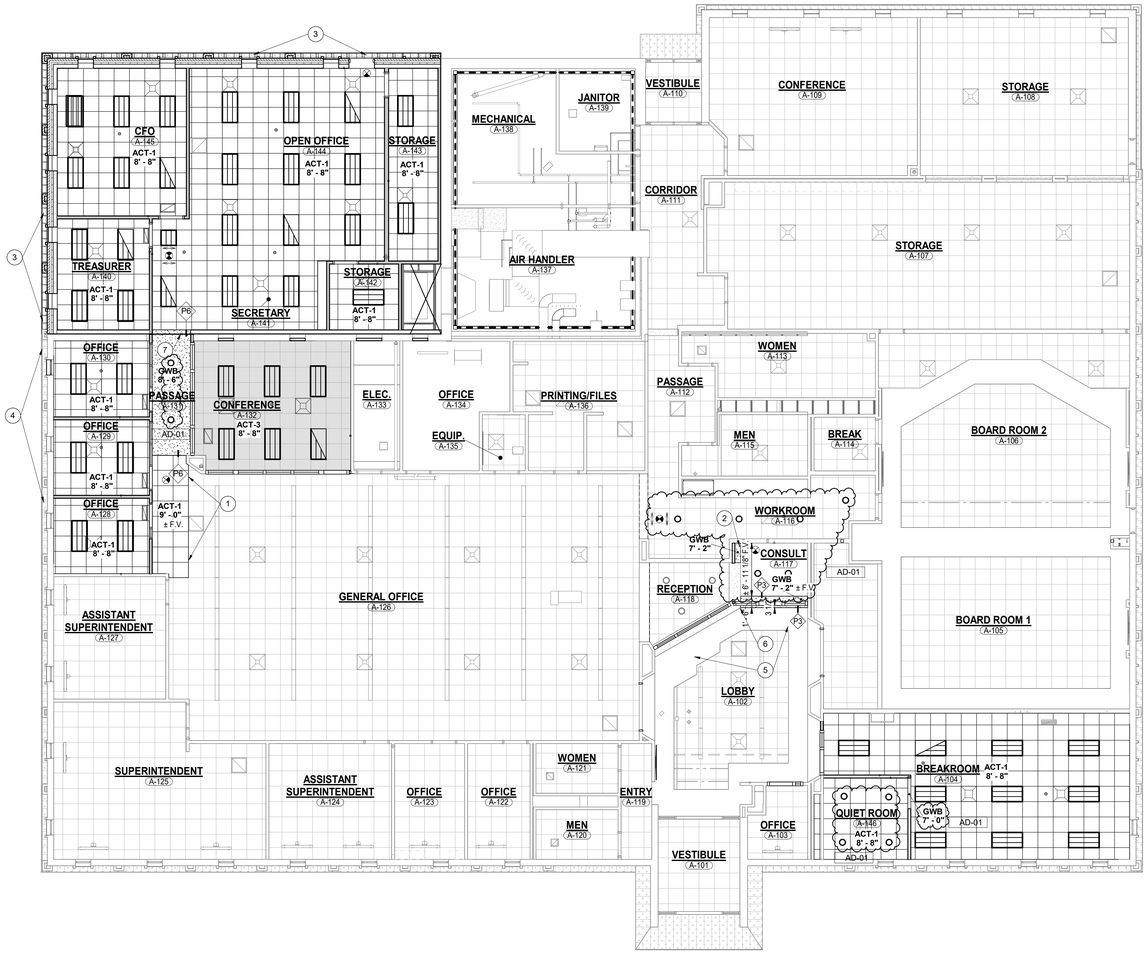


DETAIL "A"

2 A-901

BULKHEAD DETAILS

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



1 A-901

FIRST FLOOR REFLECTED CEILING PLAN

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

NORTH

GENERAL REFLECTED CEILING NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO SHEET G-301.

B. THE ARCHITECTURAL REFLECTED CEILING PLANS GOVERN THE LAYOUT OF ALL CEILING ELEMENTS AND PENETRATIONS.

C. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT THE ROOF DECK.

D. REFER TO FLOOR PLANS FOR WALL TYPES.

E. REFER TO FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD TYPES AND QUANTITIES. HEADS HAVE INTENTIONALLY BEEN OMITTED FOR CLARITY.

F. CEILING ACCESS PANELS INDICATED ARE NOT INTENDED TO LIMIT NUMBER OF PANELS REQUIRED. PANEL QUANTITY SHALL BE SUFFICIENT TO PROVIDE REQUIRED ACCESS WHETHER OR NOT INDICATED ON THE DRAWINGS. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK.

G. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPE AND QUANTITIES.

H. REFER TO MECHANICAL DRAWINGS FOR DIFFUSERS, GRILL TYPES AND QUANTITIES - ALL MECHANICAL ITEMS MAY NOT BE INDICATED ON THIS SHEET.

I. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL CEILING MOUNTED TECHNOLOGY ITEMS.

J. REFER TO FINISH PLANS AND INTERIOR ELEVATIONS FOR PAINT COLORS.

CEILING LEGEND

- ACT-1
- ACT-3
- LIGHT FIXTURE
- SUPPLY AIR DIFFUSER.
- RETURN OR EXHAUST REGISTER.
- EXHAUST REGISTER.
- EXTERIOR INSULATED FINISH SYSTEM (EIFS).
- INTERIOR FINISH SYSTEM (IFS) OVER GLASS MATT GYPSUM SHEATHING.
- GYPSUM BOARD CEILING OR BULKHEAD, REFER TO TYPICAL BULKHEAD DETAILS A-901 AND WALL SECTIONS.

REFLECTED CEILING PLAN NOTES:

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

1 TIE GRID INTO EXISTING GRID. ALIGN CEILING GRID WITH EXISTING CEILING GRID.
2 PATCH CEILING WITH MATCHING MATERIAL AND ALIGN WITH EXISTING BULKHEAD.
3 PREFINISHED METAL SOFFIT.
4 EXISTING METAL SOFFIT.
5 EXISTING GYPSUM BOARD BULKHEAD TO REMAIN.
6 ALIGN NEW BULKHEAD TO THE CORNER OF THE EXISTING BULKHEAD. INSTAL CONTROL JOINT.
7 1" CEILING EXPANSION JOINT WITH BACKER ROD AND SEALANT.

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PROJECT:

MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

MERRILLVILLE COMMUNITY SCHOOL CORPORATION
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PROJECT 26-110
DATE 07/14/26
COORDINATED BY CS
DRAWN BY CJA
CHECKED BY CS

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

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DRAWING
FIRST FLOOR REFLECTED CEILING PLAN

PROJECT
MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

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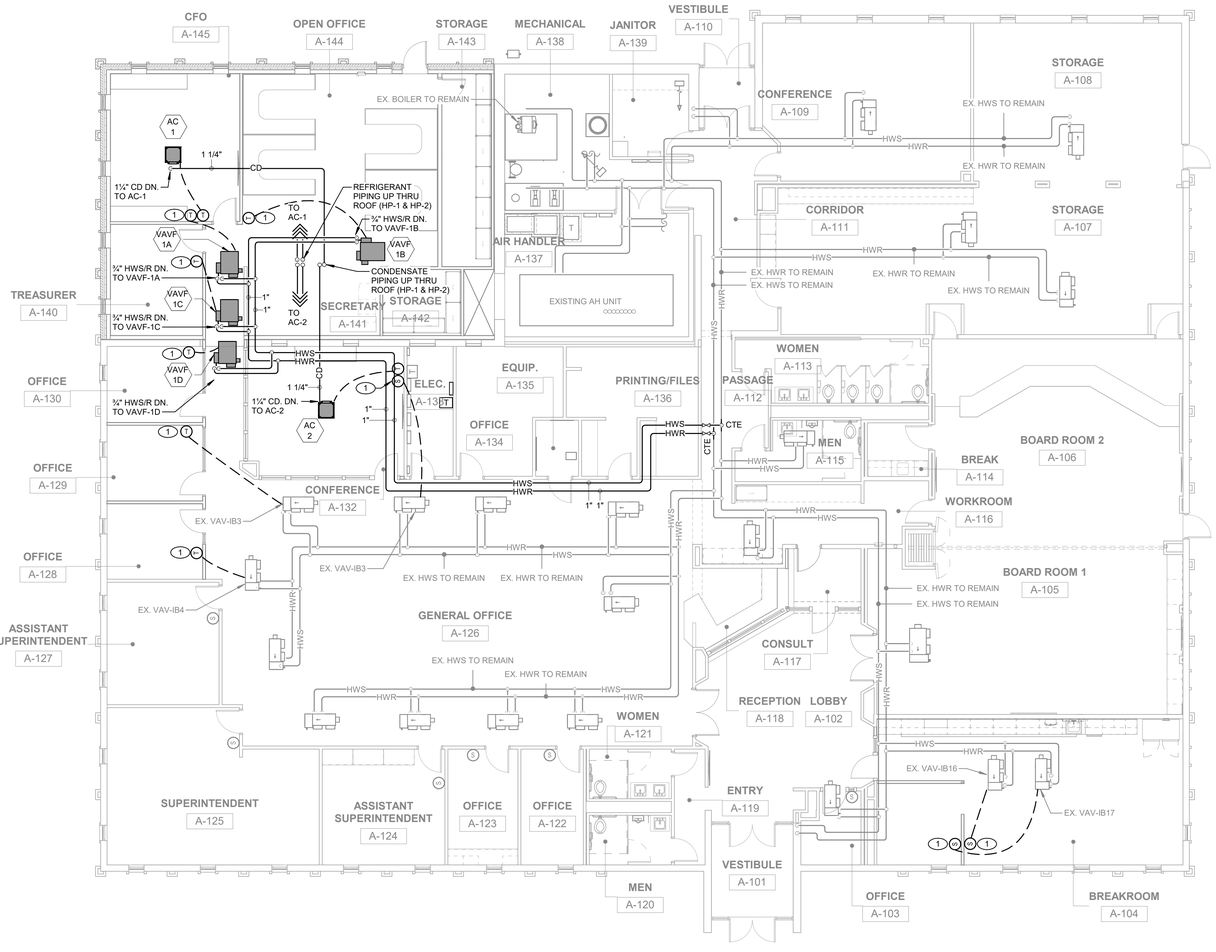
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A-901

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SHEET NOTES

1. NEW LOCATION OF EXISTING THERMOSTAT. CONNECT EXISTING CONTROL WIRING TO THERMOSTAT AND MODIFY AS REQUIRED.

AD-01



1 MP101 **MECHANICAL PIPING OVERALL FIRST FLOOR PLAN**

1/8" = 1'-0"

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KM
DRAWN BY
RC
CHECKED BY
DJ

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

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DRAWING
OVERALL MECHANICAL PIPING FIRST FLOOR PLAN

PROJECT
MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

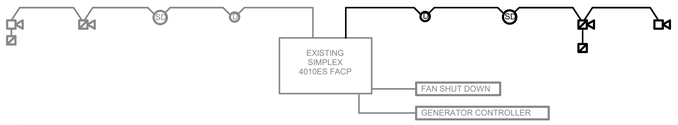
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FIRE ALARM SCHEMATIC RISER DIAGRAM



NOTES:

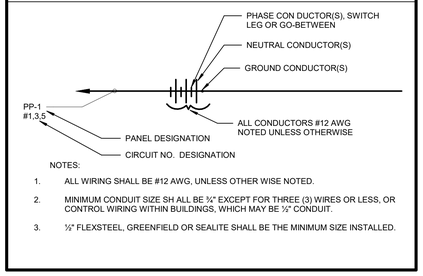
1. THIS DIAGRAM IS SCHEMATIC ONLY AND DOES NOT SHOW ALL FIRE ALARM DEVICES, AIR HANDLING UNITS, ROOF-TOP UNITS OR FIRE PROTECTION DEVICES - REFER TO ALL PLANS AND SPECIFICATIONS FOR QUANTITIES, LOCATION, ACCEPTABLE MANUFACTURERS, ETC.
2. ELECTRICAL CONTRACTOR SHALL FURNISH DUCT SMOKE DETECTORS. MECHANICAL 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 DOWN. ALL AIR HANDLING EQUIPMENT SHALL START AUTOMATICALLY (AND SEQUENTIALLY) UPON RESETTING OF THE FIRE ALARM SYSTEM.
4. 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.

ELECTRICAL ABBREVIATIONS

NOTE:
ABBREVIATIONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW. REFER TO CSI SECTION 01420 FOR ANY ABBREVIATIONS LISTED ON THE DRAWINGS BUT ARE NOT LISTED BELOW.

A	AMPS	KVA	KILOVOLT AMPERE
AC	AIR CONDITIONING	KW	KILOWATTS
AFF	ABOVE FINISHED FLOOR	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
AFG	ABOVE FINISHED GRADE	LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT
BRKR	BREAKER	MECH	MECHANICAL
C	CONDUIT	MTD	MOUNTED
CH	CABINET HEATER	NE	NEW LOCATION OF EXISTING RELOCATED DEVICE
CKT	CIRCUIT	NIC	NOT IN CONTRACT
DISTR	DISTRIBUTION	NL	NIGHTLIGHT
EF	EXHAUST FAN	NTS	NOT TO SCALE
ELEC	ELECTRICAL	O/C	ON CENTER
EM	EMERGENCY	P	POLE
EMT	ELECTRICAL METALLIC TUBING	PNL	PANEL
ER	EXISTING DEVICE TO BE REMOVED	PH	PHASE
EX	EXISTING DEVICE TO REMAIN	RR	REMOVE AND RELOCATE EXISTING DEVICE
F	FUSE	SW	SWITCH
FS	FUSIBLE SWITCH	TYP	TYPICAL
F&I	FURNISH AND INSTALL	UON	UNLESS OTHERWISE NOTED
G	GROUND	V	VOLTS
GFI	GROUND FAULT INTERRUPTING PROTECTION	VIF	VERIFY IN FIELD
GRC	GALVANIZED RIGID CONDUIT	W	WATTS
HP	HORSEPOWER	WP	WEATHER PROOF TYPE DEVICE
J	JUNCTION BOX	WG	WIRE GUARD

KEY TO ELECTRICAL CIRCUIT WIRING



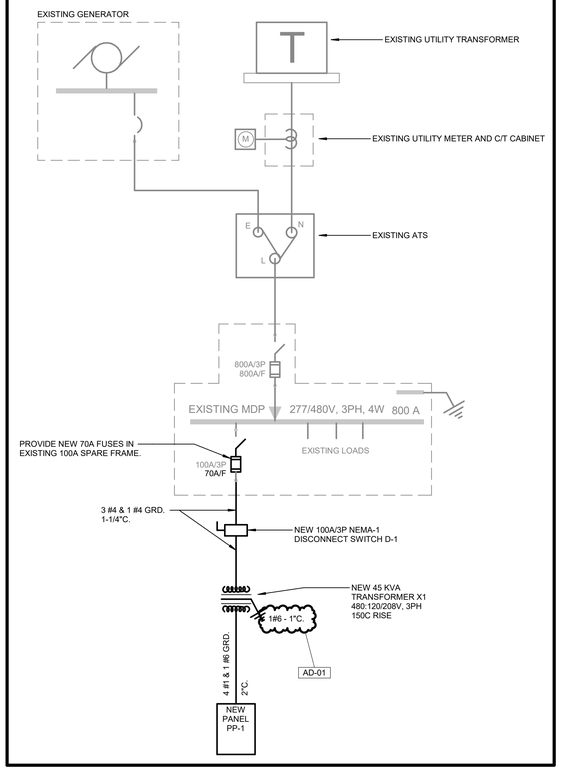
NOTES:

1. ALL WIRING SHALL BE #12 AWG, UNLESS OTHER WISE NOTED.
2. MINIMUM CONDUIT SIZE SH ALL 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.

FIXTURE GENERAL NOTES

1. INTERIOR FIXTURES AND EXTERIOR FIXTURES FINISHES AND COLORS TO BE SELECTED BY ARCHITECT. THE ARCHITECT MAY, AT THEIR DISCRETION, CHOOSE A CUSTOM COLOR AT NO ADDITIONAL CHARGE.
2. LED FIXTURES (LESS THAN 10000 LUMENS) SHALL BE PROVIDED WITH FACTORY INSTALLED INTEGRAL EMERGENCY BATTERY UNITS BATTERY UNITS SHALL PROVIDE A MINIMUM OF 1400 LUMENS.
3. FIXTURES THAT CANNOT BE PROVIDED WITH EMERGENCY BALLASTS OR FIXTURES WITH GREATER THAN 10000 LUMENS SHALL BE PROVIDED WITH EMERGENCY INVERTER (MYERS #LV SERIES OR APPROVED EQUAL) WITH SUITABLE CAPACITY TO POWER FIXTURE FOR A MINIMUM OF 90 MINUTES PER CODE. VERIFY SIZING AND REQUIREMENTS WITH CONTRACT DOCUMENTS PRIOR TO ORDERING.
4. SHADED FIXTURES SHALL HAVE AN EMERGENCY SOURCE OF POWER AS SPECIFIED.
5. FIXTURES WITH EMERGENCY BATTERIES SHALL BE PROVIDED WITH CONSTANT HOT SENSING WIRE SO THAT FIXTURE CAN BE SWITCHED ON AND OFF WITHOUT ACTIVATING EMERGENCY BALLAST. UPON LOSS OF POWER, THE FIXTURE SHALL BE ILLUMINATED FOR A MINIMUM OF 90 MINUTES REGARDLESS OF THE LIGHT SWITCH POSITION. PROVIDE TEST SWITCH AND CHARGING INDICATOR FOR EMERGENCY BATTERY AS SPECIFIED.
6. ALL INTEGRAL EMERGENCY BATTERIES USED IN EXTERIOR APPLICATIONS SHALL HAVE A MINIMUM STARTING TEMPERATURE OF -20 DEGREES F UNLESS OTHERWISE SPECIFIED.
7. 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.
8. VERIFY FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
9. VERIFY VOLTAGES OF EXISTING LIGHTING CIRCUITRY PRIOR TO ORDERING FIXTURES.
10. FOR FIXTURES INSTALLED IN CASEWORK, VERIFY FIXTURE FIT WITH CASEWORK SHOP DRAWINGS PRIOR TO ORDERING.
11. 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.
12. FIXTURES SHALL BE PROVIDED WITH ESCUTCHEON PLATES AS REQUIRED TO COVER EXISTING HOLES FROM REMOVED FIXTURES. CANOPY CEILING AROUND NEW FIXTURES SHALL BE REFINISHED TO MATCH EXISTING SURROUNDING CANOPY CEILING SURFACES.
13. FIXTURES SHALL BE CAREFULLY COORDINATED WITH MANUFACTURER TO DELIVER THE SPECIFIED PRODUCT IN SUFFICIENT TIME TO MEET PROJECT DEADLINES. EQUIPMENT DELIVERY LEAD TIME SHALL NOT BE HELD AS A VALID REASON FOR REQUESTING LUMINAIRE SUBSTITUTION UNLESS LUMINAIRE LEAD TIME FROM SPECIFIED MANUFACTURER IS IN EXCESS OF 14 WEEKS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DETERMINE NECESSARY EQUIPMENT LEAD TIMES, DELIVER SUBMITTALS FOR REVIEW IN A TIMELY FASHION, AND PLACE ORDERS ACCORDINGLY TO ENSURE TIMELY DELIVERY.
14. EVALUATION OF APPROVED EQUALS SHALL BE AT THE SOLE DISCRETION OF THE ARCHITECT AND ENGINEER. IF THE PRODUCT SUBMITTED DURING THE REVIEW PROCESS IS NOT JUDGED AS AN EQUAL BY THE REVIEWING ENGINEER, THE CONTRACTOR SHALL PROVIDE THE PRODUCT SPECIFIED.
15. LIGHT FIXTURE TRANSFORMERS SHALL BE INTEGRAL STEP DOWN TRANSFORMERS PER NEC 210.6C. IF AN INTEGRAL STEP DOWN TRANSFORMER IS NOT AVAILABLE, PROVIDE A 120V CONNECTION FOR LIGHT FIXTURES AND ADDITIONAL CONTROL DEVICES AS REQUIRED TO PROPERLY CONTROL FIXTURES ALONG WITH OTHER 277 VOLT LIGHTING IN ROOM. VERIFY CONDITIONS AND REQUIREMENTS, COMPLETE AS REQUIRED.
16. CAREFULLY COORDINATE VOLTAGES OF FIXTURES PRIOR TO ORDERING FIXTURES.
17. CAREFULLY VERIFY COLOR TEMPERATURE OF FIXTURES WITH ARCHITECT PRIOR TO ORDERING.

ELECTRICAL ONE-LINE SCHEMATIC DIAGRAM



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

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DRAWING
ELECTRICAL NOTES, SYMBOLS & ABBREVIATIONS

PROJECT
MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

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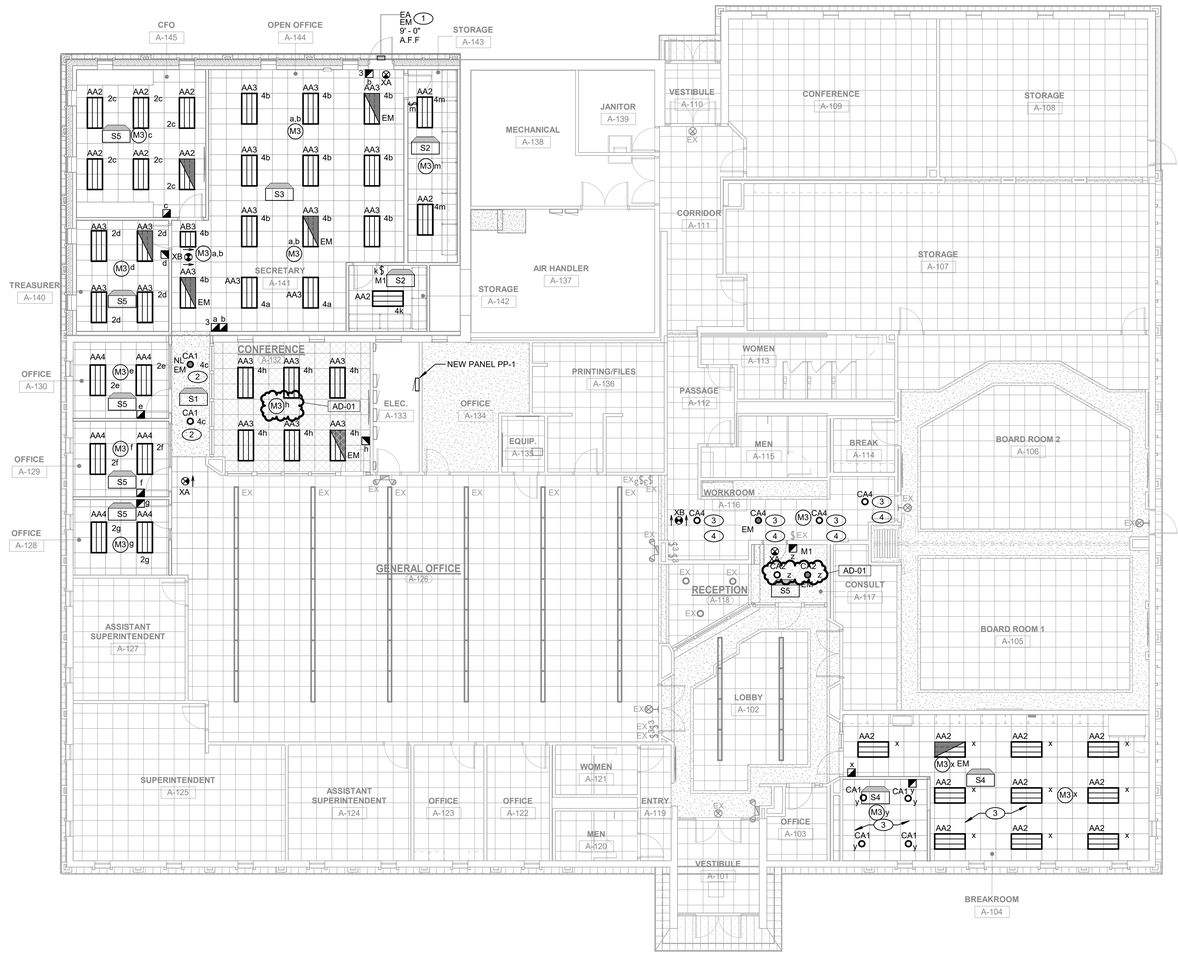
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GENERAL NOTES

1. CIRCUIT ALL DEVICES TO EXISTING PANEL 1HA1, UNLESS OTHERWISE NOTED.

SHEET NOTES

1. RECONNECT NEW LIGHT FIXTURES TO EXISTING EXTERIOR LIGHTING CIRCUITRY COMPLETE AS REQUIRED, MAXIMUM 1400W PER 120 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. EXTEND EXISTING LIGHTING CONTROLS IN ROOM A-126 TO NEW LIGHTING FIXTURE.
3. RECONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUITRY COMPLETE AS REQUIRED, MAXIMUM 1400W PER 120 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.
4. EXTEND EXISTING LIGHTING CONTROLS IN ROOM A-116 TO NEW LIGHTING FIXTURE.



1 EL101 **ELECTRICAL LIGHTING OVERALL CEILING PLAN**

1/8" = 1'-0"

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DRAWING
OVERALL ELECTRICAL LIGHTING FIRST FLOOR PLAN

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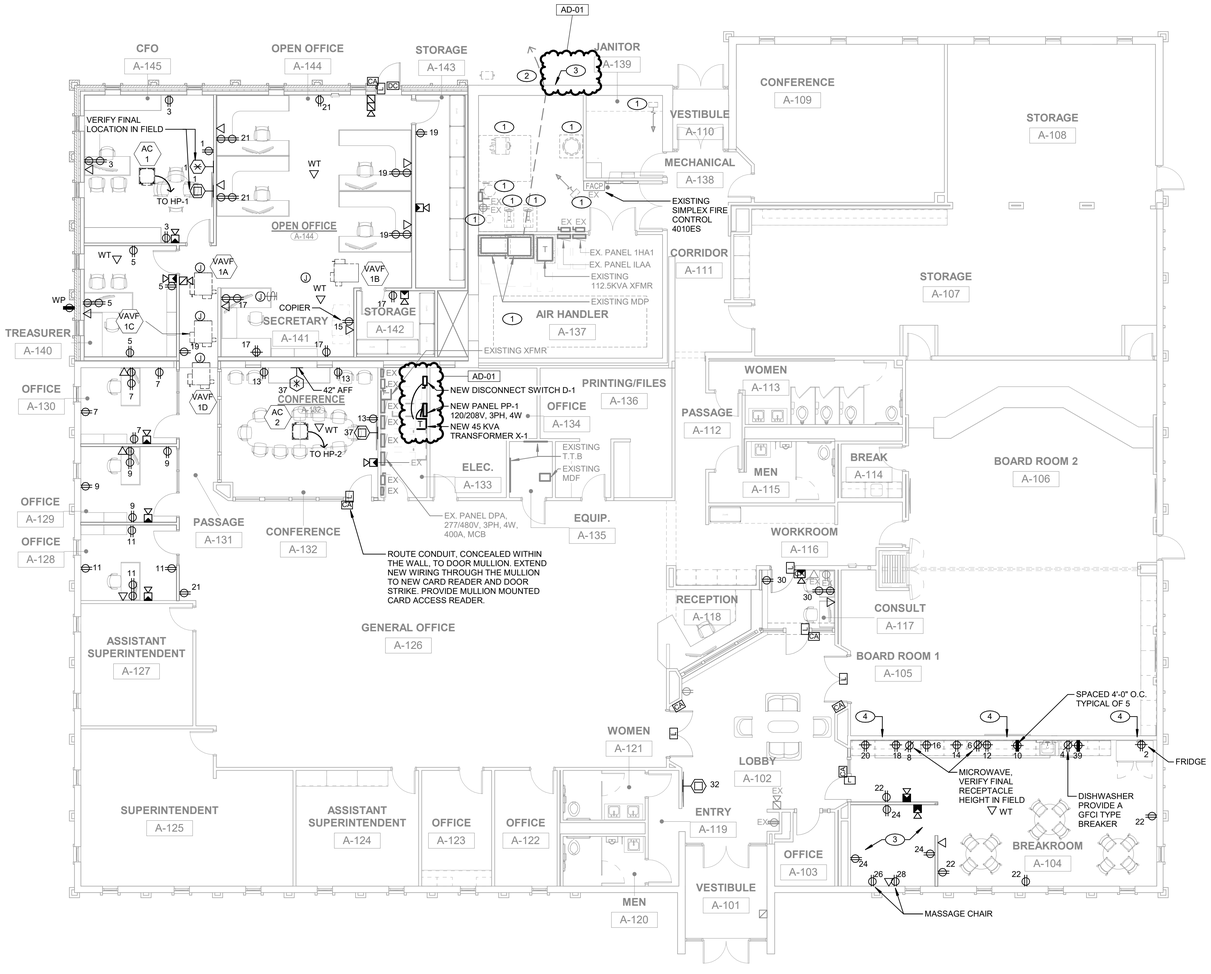
GENERAL NOTES

1. CIRCUIT ALL DEVICES TO PANEL PP-1, UNLESS OTHERWISE NOTED.

SHEET NOTES

1. EXISTING MECHANICAL EQUIPMENT TO REMAIN.
2. APPROXIMATE ROUTING OF EXISTING UNDERGROUND CONDUIT AND WIRING TO EXISTING UTILITY TRANSFORMER AND GENERATOR LOCATED ACROSS THE STREET.
3. NEW LOCATION OF EXISTING GROUNDING ELECTRODE. REFER TO SHEET ED101 FOR ADDITIONAL INFORMATION.
4. CHANNEL EXISTING WALL AS REQUIRED TO CONCEAL NEW BRANCH CIRCUIT RACEWAYS AND BOXES FOR NEW RECEPTACLES ON THIS WALL. REPAIR, PATCH, AND FINISH ALL SURFACES TO MATCH EXISTING ADJACENT CONDITIONS. VERIFY IN FIELD.
5. NOT USED

AD-01



1 ELECTRICAL POWER OVERALL FIRST FLOOR PLAN

EP101 1/8" = 1'-0"

NORTH

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OVERALL ELECTRICAL POWER FIRST FLOOR PLAN

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NEW PANEL PP-1

LOCATION: ELEC A-133 **VOLTS:** 120/208 Wye
SUPPLY FROM: EX. MDP **PHASES:** 3
MOUNTING: SURFACE **MAINS TYPE:** MCB
ENCLOSURE: NEMA-1 **MAIN RATING:** 125 A
A.I.C. RATING: 22000 A **BUSSING:** COPPER
NOTES:

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	CFO RECEPTACLES		20 A	1	1100			1000			1	20 A		FRIDGE	2
3	CFO RECEPTACLES		20 A	1		800			1500		1	20 A	GC	DISHWASHER	4
5	TREASURER RECEPTACLES		20 A	1			1000			1500	1	20 A		MICROWAVE	6
7	OFFICE A-130 RECEPTACLES		20 A	1	1000			1500			1	20 A		MICROWAVE	8
9	OFFICE A-129 RECEPTACLES		20 A	1		1000			500		1	20 A		CROCKPOT A-104	10
11	OFFICE A-128 RECEPTACLES		20 A	1			1000			500	1	20 A		CROCKPOT A-104	12
13	CONFERENCE RECEPTACLES		20 A	1	600			500			1	20 A		CROCKPOT A-104	14
15	COPIER		20 A	1		1500			500		1	20 A		CROCKPOT A-104	16
17	SECRETARY RECEPTACLES		20 A	1			1000			500	1	20 A		CROCKPOT A-104	18
19	OPEN OFFICE RECEPTACLES		20 A	1	1200			500			1	20 A		CROCKPOT A-104	20
21	OPEN OFFICE RECEPTACLES		20 A	1		1200			800		1	20 A		BREAKROOM A-104	22
23	ROOF TOP RECEPTACLE		20 A	1			200			600	1	20 A		BREAKROOM RECEPTACLES	24
25	AC/HP-1		25 A	2	2361			400			1	20 A		MASSAGE CHAIR	26
27						2361			400		1	20 A		MASSAGE CHAIR	28
29	AC/HP-2		25 A	2			2361			600	1	20 A		CONSULT RECEPTACLES	30
31					2361			400			1	20 A		LOBBY A-102 TV	32
33	VAVF-1A		20 A	1		324			456		1	20 A		GEF-1	34
35	VAVF-1B		20 A	1			576			156	1	20 A		GEF-2	36
37	TV/INPUT CONFERENCE A-132		20 A	1	900			324			1	20 A		VAVF-1C	38
39	LOCKER BOX		20 A	1		200			324		1	20 A		VAVF-1D	40
41	DOOR CONTROLLERS	--	20 A	1			500			200	1	20 A		ROOFTOP RECEPTACLE	42

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LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE
EX = EXISTING CIRCUIT BREAKER

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	14146 VA
TOTAL CONNECTED LOAD PHASE B:	12165 VA
TOTAL CONNECTED LOAD PHASE C:	10693 VA
TOTAL CONNECTED LOAD:	37003 VA
TOTAL CONNECTED AMPS:	102.7 A
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	

EX. PANEL 1HA1

LOCATION: AIR HANDLER AD137 **VOLTS:** 480/277 Wye
SUPPLY FROM: EX. MDP **PHASES:** 3
MOUNTING: SURFACE **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 **MAIN RATING:** 100 A
A.I.C. RATING: 22000 A **BUSSING:** COPPER
NOTES:

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	EX. LOAD	--	20 A	1	886			598			1	20 A	EX	NEW LIGHTING	2
3	EX. LOAD	--	20 A	1		886			866		1	20 A	EX	NEW LIGHTING	4
5	EX. LOAD	--	20 A	1			942			886	1	20 A	--	EX. LOAD	6
7	EX. LOAD	--	20 A	1	942			886			1	20 A	--	EX. LOAD	8
9	EX. LOAD	--	20 A	1		886			886		1	20 A	--	EX. LOAD	10
11	EX. LOAD	--	20 A	1			1053			832	1	20 A	--	EX. LOAD	12
13	EX. LOAD	--	20 A	1	1176			1046			1	20 A	--	EX. LOAD	14
15	EX. SPARE	--	20 A	1		0			0		1	20 A	--	EX. SPARE	16
17	EX. SPARE	--	20 A	1			0			0	1	20 A	--	EX. SPARE	18
19	EX.SPARE	--	20 A	1	0			0			1	20 A	--	EX. SPARE	20
21	EX. SPARE	--	20 A	1		0			0		1	20 A	--	EX. SPARE	22
23	EX. LOAD	--	20 A	1			70			0	1	20 A	--	EX. SPARE	24
25	EX. SPARE	--	20 A	1	0			0			1	20 A	--	EX. SPARE	26
27	EX. LOAD	--	20 A	1		0			0		1	20 A	--	EX. SPARE	28
29	EX. SPARE	--	20 A	1			0			--	1	--	--	SPACE	30
31	SPACE	--	--	1	--			--			1	--	--	SPACE	32
33	SPACE	--	--	1		--			--		1	--	--	SPACE	34
35	SPACE	--	--	1			--			--	1	--	--	SPACE	36
37	SPACE	--	--	1	--			--			1	--	--	SPACE	38
39	SPACE	--	--	1		--			--		1	--	--	SPACE	40
41	SPACE	--	--	1			--			--	1	--	--	SPACE	42

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE
EX = EXISTING CIRCUIT BREAKER

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	5534 VA
TOTAL CONNECTED LOAD PHASE B:	3524 VA
TOTAL CONNECTED LOAD PHASE C:	3783 VA
TOTAL CONNECTED LOAD:	12841 VA
TOTAL CONNECTED AMPS:	15.4 A
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	

INTERIOR LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	SERIES OR CATALOG NUMBER	LAMP	COLOR TEMP	MIN LUMENS	MAX WATTS	VOLTS	CONTROL	MOUNTING TYPE	MOUNTING HEIGHT	REMARKS
AA2	2'X4' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT4-30LM-ADSM-GZ1-LP835 24CZ2-30-S-UNV-L835-HCD1 LCAT24-S-3530LMG-ED1U	LED	3500K	3000 LM	31 W	120/277V	0-10V	RECESSED LAY-IN	- -	---
AA3	2'X4' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT4-40LM-ADSM-GZ1-LP835 24CZ2-40-S-UNV-L835-HCD1 LCAT24-S-3540LMG-ED1U	LED	3500K	4000 LM	40 W	120/277V	0-10V	RECESSED LAY-IN	- -	---
AA4	2'X4' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT4-48LM-ADSM-GZ1-LP835 24CZ2-XX-S-UNV-L835-HCD1 LCAT24-S-35XXXXG-ED1U	LED	3500K	4800 LM	42 W	120/277V	0-10V	RECESSED LAY-IN	- -	---
AB3	2'X2' RECESSED VOLUMETRIC LED FIXTURE WITH CURVED SMOOTH SHIELDING	LITHONIA METALUX COLUMBIA	2BLT2-40LM-ADSM-GZ1-LP835 22CZ2-40-S-UNV-L835-HCD1 LCAT22-S-3540LMG-ED1U	LED	3500K	4000 LM	31 W	120/277V	0-10V	RECESSED LAY-IN	--	---
CA1	6" DIAMETER LED OPEN DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR AND WHITE FLANGE	LITHONIA HALO PRESCOLITE	LDN6-35-10LM-L06-AR-LSS-TRW-MVOLT-GZ1 HC6XD010-HM6XX835-61WDHWF LTR-6RD-H-1000L-DM1-LTR-6RD-T-SSKRWD-SSWT	LED	3500K	1000 LM	11 W	120/277V	0-10V	RECESSED LAY-IN/ DRYWALL	---	---
CA2	6" DIAMETER LED OPEN DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR AND WHITE FLANGE	LITHONIA HALO PRESCOLITE	LDN6-35-15-L06-AR-LSS-TRW-MVOLT-GZ1 HC6XD010-HM6XX835-61WDHWF LTR-6RD-H-XXXXL-DM1-LTR-6RD-T-XX35K8WD-SSWT	LED	3500K	1500 LM	18 W	120/277V	0-10V	RECESSED LAY-IN/ DRYWALL	---	---
CA4	6" DIAMETER LED OPEN DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR AND WHITE FLANGE	LITHONIA HALO PRESCOLITE	LDN6-35-25-L06-AR-LSS-TRW-MVOLT-GZ1 HC6XD010-HM6XX835-61WDHWF LTR-6RD-H-XXXXL-DM1-LTR-6RD-T-XX35K8WD-SSWT	LED	3500K	2500 LM	29 W	120/277V	0-10V	RECESSED LAY-IN	---	---
XA	LED THERMOPLASTIC SINGLE FACE EXIT SIGN, RED LETTERING, WHITE FINISH, NICAD BATTERY, SELF-DIAGNOSTICS	LITHONIA SURELITES DUAL LITE	LQM-S-W-3-R-MVOLT-ELN-SD LPX7SD EVCURWI	LED	---	---	1 W	120/277V	---	CEILING	---	-PROVIDE RED EXIT SIGHNS
XB	LED THERMOPLASTIC DUAL FACE EXIT SIGN, RED LETTERING, WHITE FINISH, NICAD BATTERY, SELF-DIAGNOSTICS	LITHONIA SURELITES DUAL LITE	LQM-S-W-3-R-MVOLT-ELN-SD LPX7SD EVCURWI	LED	---	---	1 W	120/277V	---	CEILING	---	-PROVIDE RED EXIT SIGHNS
EM	FIXTURE ON EMERGENCY CIRCUIT WITH 90 MINUTE, HIGH OUTPUT (MIN 1400LM) BATTERY UNIT OR INVERTER		BODINE FACTORY INSTALLED BATTERY, OR, AT CONTRACTOR'S DISCRETION, MYERS LV SERIES INVERTER (SIZE AND QUANTITY AS REQUIRED)				0 W	120/277V		---		- PROVIDE TEST SWITCH AND CHARGING INDICATOR - INTEGRAL BATTERIES NOT ALLOWED IN FIXTURES WITH GREATER THAN 10000 LUMENS
NL	CONSTANT HOT, UNSWITCHED NIGHT LIGHT FIXTURE						0 W					---

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EXTERIOR LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	SERIES OR CATALOG NUMBER	LAMP	COLOR TEMP	MIN LUMENS	MAX WATTS	VOLTS	CONTROL	MOUNTING TYPE	MOUNTING HEIGHT	REMARKS
EA	LED TRAPEZOIDAL WALLPACK	LITHONIA MCGRAW-EDISON	WDGE2 LED-P3-80CRI-XT1S-MVOLT-XX-XX GKO-PB-1-C-850-U-T1-XX OR APPROVED EQUAL	LED	5000K	3052 LM	32 W	120/277V	0-10V	WALL SURFACE	--	- CONFIRM FINAL EXTERIOR LIGHTING FIXTURE COLOR TEMPERATURE ON FIELD PRIOR TO ORDERING

LIGHTING CONTROL SEQUENCE OF OPERATIONS

LIGHTING SEQUENCE SCHEME NO.	SPACE CATEGORIES	MANUAL CONTROL FUNCTIONS			OCCUPANCY SENSOR CONTROL FUNCTIONS			EMERGENCY LIGHTING		REMARKS
		ON / OFF (NOTE 1a)	DIMMING (NOTE 1b)	LIGHTING CONTROL OVERRIDE SWITCH (STAFF-ONLY) (NOTE 1c)	AUTOMATIC OFF (NOTE 2a)	AUTOMATIC ON / OFF (NOTE 2b)	AUTOMATIC PARTIAL ON (NOTE 2c)	CONTROLLED WITH SPACE LTG. (FULL EM VIA UL924 UPON LOSS OF NORMAL POWER)	ON 24 HOUR MODE (NIGHT LTG)	
S1	CORRIDOR / LOBBIES			•					•	VERIFY NIGHT LIGHT LOCATIONS WITH OWNER PRIOR TO PROGRAMMING
S2	STORAGE	•				•		•		
S3	OFFICE - OPEN PLAN OFFICE AREAS (MORE THAN 1 WORKSTATION)	•	•			•		•		
S4	LOUNGE / BREAK ROOMS	•	•			•		•		
S5	OFFICE - ENCLOSED (1 WORKSTATION)	•	•			•				

1. MANUAL CONTROL:
a. SWITCH FUNCTION:
MANUAL OPERATION AT LOCAL WALL CONTROL SWITCH SHALL BE REQUIRED TO TURN LIGHTING **ON** AND **OFF** WITHIN THE SPACE.

b. DIMMER FUNCTION:
MANUAL OPERATION AT LOCAL WALL CONTROL DIMMER SHALL ALLOW OCCUPANT TO MANUALLY TURN LIGHTING **ON** AND **OFF** WITHIN THE SPACE AND ADJUST LIGHT LEVEL FROM **100%** TO MINIMUM DIM LEVEL AND **OFF**.

c. OVERRIDE SWITCH:
1. KEY OPERATED LOCAL WALL OVERRIDE SWITCH SHALL ALLOW BUILDING STAFF TO TEMPORARILY OVERRIDE AUTOMATIC LIGHTING CONTROL FUNCTIONS AND TURN THE LIGHTING **ON** TO **100%** WITHIN THE SPACE, FOR A MAXIMUM OF **2 HOURS**.
2. AFTER THE PREPROGRAMMED TIME DELAY HAS EXPIRED, THE SPACE LIGHTING SHALL RETURN TO NORMAL SCHEDULED AUTOMATIC LIGHTING CONTROL FUNCTIONS.

2. OCCUPANCY SENSOR:
a. VACANCY SENSOR MODE:
1. IN VACANCY MODE, MANUAL OPERATION AT LOCAL WALL SWITCH SHALL BE REQUIRED TO TURN LIGHTING **ON** WITHIN THE SPACE.
2. AFTER THE SPACE HAS BEEN VACATED FOR A MAXIMUM OF **20 MINUTES**, THE SENSOR SHALL AUTOMATICALLY TURN LIGHTING **OFF** WITHIN THE SPACE.

b. OCCUPANCY SENSOR MODE:
1. IN OCCUPANCY MODE, THE SENSOR SHALL AUTOMATICALLY TURN LIGHTING **ON** WITHIN THE SPACE WHEN OCCUPANCY IS DETECTED.
2. AFTER THE SPACE HAS BEEN VACATED FOR A MAXIMUM OF **20 MINUTES**, THE SENSOR SHALL AUTOMATICALLY TURN LIGHTING **OFF** WITHIN THE SPACE.

c. PARTIAL AUTO-ON:
1. OCCUPANCY SENSOR SHALL AUTOMATICALLY TURN THE SPACE LIGHTING **ON** TO A MAXIMUM OF **50% POWER INPUT** WHEN OCCUPANCY IS DETECTED.
2. THE LOCAL WALL DIMMER SHALL ALLOW MANUAL ADJUSTMENT FROM **100% POWER INPUT** TO A MINIMUM DIM LEVEL AND **OFF**.
3. AFTER THE SPACE HAS BEEN VACATED FOR A MAXIMUM OF **20 MINUTES**,THE SENSOR SHALL AUTOMATICALLY TURN LIGHTING **OFF** WITHIN THE SPACE.

3. LIGHTING CONTROL SYSTEM ADDITIONAL REQUIREMENTS
a. FURNISH AND INSTALL ALL COMPONENTS, HARDWARE, AND INTERFACE WIRING AS REQUIRED TO ACCOMPLISH THE INDICATED CONTROL SEQUENCES.
b. LIGHTING CONTROL DEVICES SHOWN ON PLANS ARE DIAGRAMMATIC AND DO NOT DEPICT THE COMPLETE EXTENT OF ALL SYSTEM COMPONENTS REQUIRED. PROVIDE ADDITIONAL SENSORS, POWER PACKS, AND CONTROLLERS AS NECESSARY TO MEET THE INTENDED SCOPE OF WORK.
c. THE LIGHTING CONTROL SYSTEM SHALL BE A FULLY WIRED INSTALLATION UNLESS SPECIFICALLY NOTED OTHERWISE. THE USE OF WIRELESS CONTROLS IS NOT PERMITTED.
d. ALL LOW VOLTAGE LIGHTING CONTROL CABLING INSTALLED IN OPEN CEILING AREAS SUBJECT TO PHYSICAL DAMAGE SHALL BE RUN IN A COMPLETE EMT RACEWAY SYSTEM. IN CONCEALED ACCESSIBLE CEILING SPACES OR AREAS NOT SUBJECT TO PHYSICAL DAMAGE, LOW VOLTAGE CONTROL CABLING MAY BE RUN IN FREE AIR. ALL FREE-AIR CABLING SHALL BE PLENUM-RATED AND SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUPPORT CABLING FROM CEILING GRID, DUCTWORK, OR PIPING.
e. COORDINATE FINAL DEVICE LOCATIONS AND PROGRAMMING WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE IN THE FIELD PRIOR TO ROUGH-IN.
f. FURNISH FACTORY REPRESENTATIVE FOR SYSTEM COMMISSIONING, PROGRAMMING, AND OWNER TRAINING AS REQUIRED BY SPECIFICATIONS.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	LOAD WATTS	LOAD HP	LOAD MCA	LOAD FLA	MOCP	VOLT	PHASE	PANEL	CKT. NO.	FEEDER CABLE	FEEDER CONDUIT	DISCONNECT SWITCH SIZE	DISCONNECT SWITCH FUSE	DISCONNECT SWITCH PROV. BY M.C./P.C.	DISCONNECT SWITCH PROV. BY E.C.	STARTER TYPE	STARTER PROV. BY: M.C./P.C.	STARTER PROV. BY: E.C.	REMARKS
AC/HP-1	CONDENSING UNIT	4721.6		22.7		25	208	1	NEW PANEL PP-1	25,27	3 #10 & 1 #10 GRD.	3/4"			X			X		
AC/HP-2	CONDENSING UNIT	4721.6		22.7		25	208	1	NEW PANEL PP-1	29,31	3 #10 & 1 #10 GRD.	3/4"			X			X		
GEF-1	GENERAL EXHAUST FAN	456		4.8	3.8	20	120	1	NEW PANEL PP-1	34	2 #12 & 1 #12 GRD.	3/4"	30A			X			X	
GEF-2	GENERAL EXHAUST FAN	156		1.6	1.3	20	120	1	NEW PANEL PP-1	36	2 #12 & 1 #12 GRD.	3/4"	30A			X			X	
VAVF-1A	FAN-POWERED VAV TERMINAL	324			2.7	20	120	1	NEW PANEL PP-1	33	2 #12 & 1 #12 GRD.	3/4"			X			X		
VAVF-1B	FAN-POWERED VAV TERMINAL	576			4.8	20	120	1	NEW PANEL PP-1	35	2 #12 & 1 #12 GRD.	3/4"			X			X		
VAVF-1C	FAN-POWERED VAV TERMINAL	324			2.7	20	120	1	NEW PANEL PP-1	40	2 #12 & 1 #12 GRD.	3/4"			X			X		
VAVF-1D	FAN-POWERED VAV TERMINAL	324			2.7	20	120	1	NEW PANEL PP-1	38	2 #12 & 1 #12 GRD.	3/4"			X			X		

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PROJECT:

MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	07/24/26	ADDENDUM 01

DRAWING
ELECTRICAL SCHEDULES

PROJECT
MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

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TECHNOLOGY GENERAL NOTES

1. WORK SHALL COMPLY WITH LOCAL, STATE AND NATIONAL ELECTRIC CODES, AMERICANS WITH DISABILITIES ACT.
2. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL TECHNOLOGY INFORMATION AND REQUIREMENTS. IN ALL CASES DEVICE MOUNTING HEIGHTS AND LOCATIONS SHALL CONFORM TO THE LATEST AMERICANS WITH DISABILITIES FEDERAL STANDARDS.
3. EXCAVATION NECESSARY FOR COMPLETION OF WORK SHALL BE PROVIDED. COORDINATE WITH ONE ANOTHER TO SHARE TRENCHES WHEREVER POSSIBLE.
4. REFER TO THE PLANS FOR ADDITIONAL TECHNOLOGY WORK AND REQUIREMENTS.
5. COORDINATE PHASING OF WORK AND PROVIDE TEMPORARY SERVICES AS REQUIRED FOR THE IMPLEMENTATION OF WORK WHILE MAINTAINING SERVICES TO PORTIONS OF BUILDING TO REMAIN OCCUPIED.
6. SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES. REQUIRED SHUTDOWN OF EXISTING FACILITY UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL.
7. LAYOUT IS DIAGRAMMATIC. INSTALL DEVICES, CONDUIT AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS. REVIEW PROJECT SPECIFICATIONS BEFORE STARTING WORK AND SUBMIT COMPLETE SHOP DRAWINGS AS PER SPECIFICATIONS.
8. VISIT SITE PRIOR TO BID TO DETERMINE AND VERIFY EXISTING INTERIOR AND EXTERIOR TECHNOLOGY SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE FULL EXTENT OF WORK. INCLUDE THE NECESSARY MODIFICATIONS TO THE EXISTING CONDITIONS (INCLUDING CEILINGS, WALLS, FLOORS, PIPES, CONDUIT, ROOF WORK, ETC.) AS REQUIRED, TO ALLOW FOR PROPER INSTALLATION OF WORK. ADJUST INSTALLATIONS TO MEET FIELD CONDITIONS AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED. EXISTING EQUIPMENT, CONDUIT, PIPING, ETC. SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK.
9. HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO ATTENTION IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL REQUIRE THE CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION TO BE COMPLETED AT NO COST. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE BROUGHT TO ATTENTION FOR REVIEW AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.
10. REMOVE AND REINSTALL EXISTING CEILINGS NOT BEING REPLACED (INCLUDING LIGHTS, MOTION SENSORS, FIRE ALARM DEVICES AND ANY OTHER TECHNOLOGY DEVICES AS REQUIRED.) WHERE NECESSARY TO PERFORM WORK. THIS ALSO INCLUDES EXISTING CEILINGS OF PLASTER, DRYWALL, ETC. COORDINATE WORK IN CEILING SPACE SO AS TO MINIMIZE THE AMOUNT OF CEILINGS WHICH MUST BE REMOVED AND REINSTALLED. REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS IN ORDER TO FULLY UNDERSTAND AND INCLUDE CEILING WORK NECESSARY FOR WORK ON THE PROJECT. WHEN THE WORK IS COMPLETED IN THE SPACE, REINSTALL OR PATCH EXISTING CEILINGS, REINSTALL DEVICES AND EQUIPMENT AND REPAIR DAMAGE AS REQUIRED TO COMPLETELY MATCH EXISTING CONDITIONS. REPAIR OR REPLACE ANY DAMAGE CAUSED TO EXISTING CEILING AREAS.
11. REMOVE EXISTING CONSTRUCTION AS REQUIRED AT EXISTING WALLS, FLOORS, PIPE CHASES, SURFACES, FINISHES, ETC. WHICH ARE AFFECTED. REPAIR EXISTING SURFACES AFFECTED, TO MATCH EXISTING SURFACE OF EQUAL OR BETTER QUALITY TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
12. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS.
13. EXISTING TECHNOLOGY DEVICES, CONDUIT, ETC., SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK. EXISTING TECHNOLOGY EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER AND SHALL BE PROPERLY STORED ON SITE, OR DESIGNATED TO BE ABANDONED AND REMOVED FROM SITE AS DIRECTED BY OWNER.
14. PERFORM CUTTING AND PATCHING OF EXISTING FLOOR SLABS AND WALLS AS REQUIRED FOR THE INSTALLATION OF TECHNOLOGY SYSTEMS.
15. EXISTING TECHNOLOGY DEVICES WITHIN WALLS TO BE REMOVED SHALL BE DISCONNECTED COMPLETELY. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.
16. WHERE INDICATED ON THE DRAWINGS IN UNFINISHED SPACES, RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALL.
17. NO RACEWAYS SHALL BE INSTALLED WITHIN 6" OF STEAM, HOT WATER PIPES OR SIMILAR HEAT PRODUCING APPLIANCES.
18. PROVIDE PULL WIRE IN EACH RACEWAY IN WHICH WIRING IS NOT INSTALLED.
19. COVERS OF JUNCTION OR PULL BOXES SHALL BE ACCESSIBLE AND IDENTIFIED PER SPECIFICATIONS. JUNCTION OR PULL BOXES AND THE LIKE SHALL BE INDEPENDENTLY SUPPORTED TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
20. UNLESS OTHERWISE NOTED, DEVICE ELEVATIONS REFER TO CENTER LINE OF JUNCTION BOX. VERIFY JUNCTION BOX LOCATIONS WITH FINAL EQUIPMENT LAYOUT PRIOR TO ROUGHING IN SAME.

TECHNOLOGY SYMBOL LIST

- 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
- NI — NEW DEVICE AS INDICATED.
- F&I 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.
- FLUSH IN WALL TV INPUT PANEL WITH QUAD POWER OUTLET, DUPLEX DATA OUTLET (REFER TO DUPLEX DATA OUTLET SYMBOL), AND HDMI CABLE. REFER TO INPUT STATION AND TV POSITION DETAIL FOR ADDITIONAL INFORMATION.
- FLUSH IN WALL "TV" PANEL WITH DUPLEX POWER OUTLET, DUPLEX DATA OUTLET (REFER TO DUPLEX DATA OUTLET SYMBOL), AND HDMI CABLE. INSTALL OWNER FURNISHED MOUNTING HARDWARE AT 7'-0" A.F.F. AND COORDINATE MOUNTING HEIGHT WITH THE ARCHITECTURAL ELEVATIONS.
- DUPLEX DATA OUTLET - WITH 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING - MOUNTED 18" A.F.F. WHEN MOUNTED ADJACENT TO AN ELECTRICAL RECEPTACLE OR AS NOTED. PROVIDE CAT-6 PLENUM CABLE. FROM EACH JACK, TO MDF LOCATION INDICATED ON PLANS. TERMINATE WITH RJ-45 JACK. TEST AND LEAVE 10' SLACK LENGTH.
- WT — DUPLEX DATA OUTLET FOR WIRELESS ACCESS POINTS - LOCATED ABOVE ACCESSIBLE CEILING SPACE AND 6" ABOVE THE GRID OR TIGHT TO THE ROOF DECK WHERE NO CEILINGS EXIST. PROVIDE 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. PROVIDE CAT-6 PLENUM CABLE, FROM EACH JACK, TO MDF LOCATION INDICATED ON PLANS. TERMINATE WITH RJ-45 CAT-6 JACK, TEST AND LEAVE 10' SLACK LENGTH.
- CA — CARD ACCESS READER - PROVIDE BACK BOX MOUNTED 42" A.F.F. WITH 3/4"C. ROUTED TO THE ACCESSIBLE CEILING SPACE. PROVIDE CARD READER EQUIPMENT AND WIRING AS INDICATED.
- L — ELECTRIC DOOR STRIKE - STUB 3/4" 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.
- WP — EXTERIOR PARAPET CAMERA LOCATION - PROVIDE BACK BOX TO INSTALL PARAPET MOUNTED CAMERA PROVIDED BY THE OWNER AND CONDUIT BACK TO THE MDF. COORDINATE BACK BOX REQUIREMENTS WITH MCSC I.T. ROUT CAT 6 PLENUM CABLE TO MDF LOCATION INDICATED ON PLANS. TERMINATE WITH RJ-45 JACK. TEST AND LEAVE 10' SLACK LENGTH.
- DC — SECURITY SYSTEM DOOR CONTACT - ROUGH-IN ONLY - ROUTE 3/4"C FROM THE ACCESSIBLE CEILING SPACE AND STUB INTO THE DOOR MULLION. — AD-01

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PROJECT:

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PROJECT
26-110
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07/14/26
COORDINATED BY
RH
DRAWN BY
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CHECKED BY
DJ

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

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DRAWING
TECHNOLOGY NOTES, SYMBOLS & ABBREVIATIONS

PROJECT
MERRILLVILLE CSC CENTRAL OFFICE ADDITION AND RENOVATION

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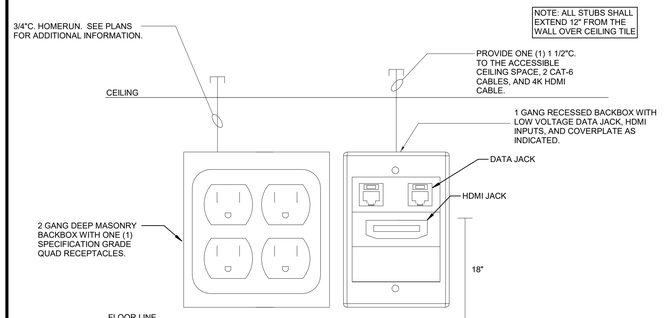
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INPUT STATION DETAIL

N.T.S.



INPUT PANEL SYMBOL

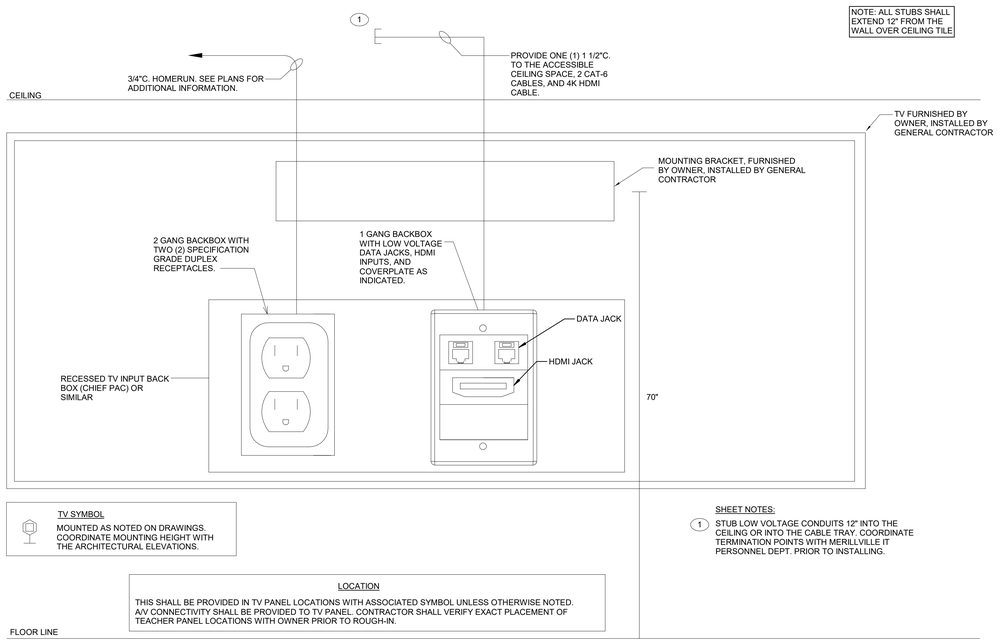
MOUNTED AS NOTED ON DRAWINGS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.

LOCATION

THIS SHALL BE PROVIDED IN INPUT PANEL LOCATIONS WITH ASSOCIATED SYMBOL UNLESS OTHERWISE NOTED. A/V CONNECTIVITY SHALL BE PROVIDED TO INPUT PANEL. CONTRACTOR SHALL VERIFY EXACT PLACEMENT OF TEACHER PANEL LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.

TV STATION DETAIL

N.T.S.



TV SYMBOL

MOUNTED AS NOTED ON DRAWINGS. COORDINATE MOUNTING HEIGHT WITH THE ARCHITECTURAL ELEVATIONS.

LOCATION

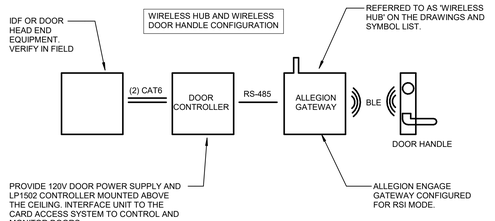
THIS SHALL BE PROVIDED IN TV PANEL LOCATIONS WITH ASSOCIATED SYMBOL UNLESS OTHERWISE NOTED. A/V CONNECTIVITY SHALL BE PROVIDED TO TV PANEL. CONTRACTOR SHALL VERIFY EXACT PLACEMENT OF TEACHER PANEL LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.

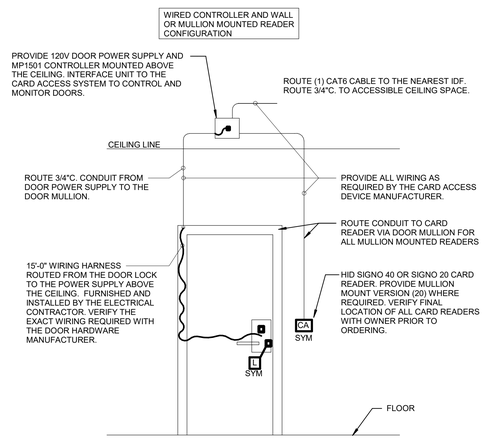
SHEET NOTES:

(1) STUB LOW VOLTAGE CONDUITS 12" INTO THE CEILING OR INTO THE CABLE TRAY. COORDINATE TERMINATION POINTS WITH MERILLVILLE IT PERSONNEL DEPT. PRIOR TO INSTALLING.

ACCESS CONTROL WIRING DIAGRAM

AD-01





NOTES:

1. PROVIDE 12V OR 24V TRANSFORMERS AS REQUIRED.
2. VERIFY ALL DEVICE LOCATIONS IN FIELD AND PROVIDE ALL WIRING, CONDUIT, JACKS, AND TERMINATIONS AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
3. PROVIDE (1) MERCURY MP1502 DOOR CONTROLLER AND (2) ASSOCIATED CARD READERS AND DOOR STRIKES FOR THE DOORS AS SHOWN. INTERFACE TO EXISTING DOOR CONTROLLER SYSTEM. VERIFY EXACT LOCATION IN FIELD. REFER TO ACCESS CONTROL WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
4. PROVIDE ALL PROGRAMMING AS REQUIRED TO INTERFACE THE NEW DOOR CONTROLLERS INTO THE EXISTING DOOR CONTROL SERVERS. PROVIDE ALL SOFTWARE, UPGRADES, PROGRAMMING, INTERFACING, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
5. SUBMIT SHOP DRAWING FOR ALL CARD ACCESS CONTROLS. SHOP DRAWING SHALL INCLUDE A FLOOR PLAN MARKUP INDICATING ALL DEVICE LOCATIONS WITH PART NUMBERS AND A COMPLETE WIRING DIAGRAM.
6. CIRCUIT ALL 120V CONNECTIONS TO PANEL PP-1-41.

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TECHNOLOGY DETAILS AND DIAGRAMS

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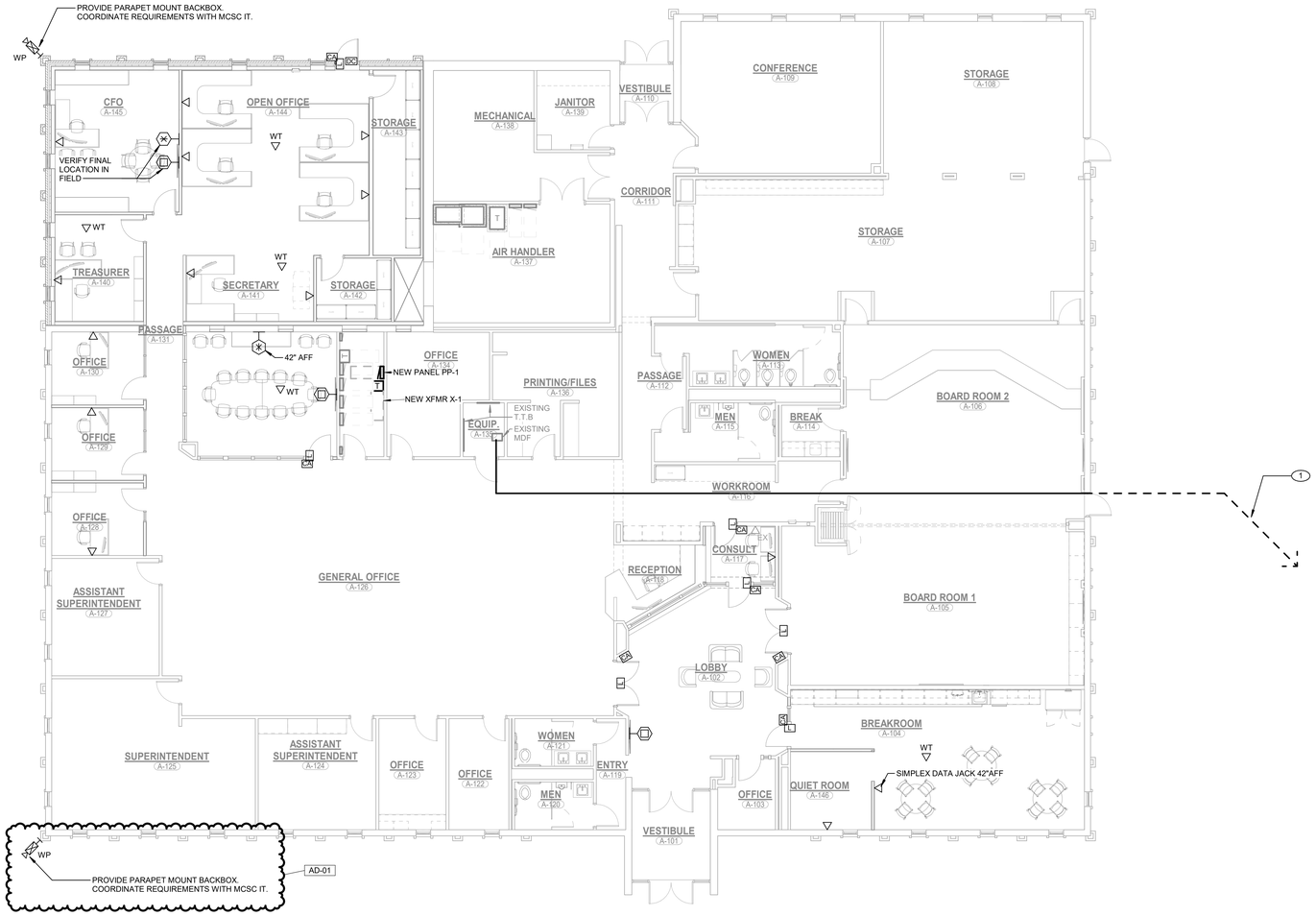
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SHEET NOTES

1. ALTERNATE - APPROXIMATE ROUTING OF EXISTING FIBER CONNECTION TO THE HIGH SCHOOL. EXISTING FIBER CONNECTION TO THE HIGH SCHOOL. EXISTING CONDUIT AND WIRING SHALL REMAIN. VERIFY THE EXACT ROUTING IN THE FIELD DURING BIDDING WITH MCSC IT. APPROXIMATE LENGTH FROM END TO END IS 2500'. PULL NEW 12-STRAND SINGLE MODE FIBER THROUGH THE EXISTING CONDUIT. PROVIDE EXTERIOR RATED, SHIELDED FIBER. AT CONTRACTORS OPTION, A PULL BOX CAN BE PROVIDED WHERE THE FIBER ENTERS EACH BUILDING AND A FIBER SPLICE CAN BE PROVIDED TO SWITCH TO INTERIOR RATER FIBER. ALL COMPONENTS FOR THIS INSTALLATION SHALL BE SUBMITTED TO AND APPROVED BY MCSC PRIOR TO INSTALLATION. CABLING SHALL BE CORNING, COMMSCOPE, PANDUIT, OR BELDEN. ALL SPLICE KITS OR EXTENDERS SHALL BE BY PANDUIT OR CORNING.



1 / T-101 TECHNOLOGY OVERALL FIRST FLOOR PLAN

1/8" = 1'-0"

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OVERALL TECHNOLOGY FIRST FLOOR PLAN

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