ADDENDUM NO. 2

September 11, 2023

Whiteland Community High School Phase 1
300 E. Main Street
Whiteland, IN 46184

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 August 11, 2023, by Lancer Associates Architecture. 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 2-1 through ADD 2-3 and attached Specification Sections 00 31 00 – Revised Indiana Bid Form, 01 21 00 Allowance, 01 23 00 Alternates, P6 Schedule, and Lancer Associates Architecture Addendum No. 2, dated September 6, 2023, consisting of 9 Pages, A002, AD122D, AD122E, A112, A122J, A122K, A141, A142, A201, A203, A301, A501, A611, A612, A720, A732, A753, Crossroad Engineers Addendum 2 Narrative, 207, 301, 400, 500, 901, Context Design Addendum 2 Narrative, L101, L102, L602, Primary Engineering Addendum 2 Narrative, Specification 077000 Roof Specialties and Accessories, FP201, P001, P100L, P100M, P101AGH, P101L, P102J, P102K, P103J, P103KLM, P501, M001E, M003, M101A, M101GH, M101J, M101K, M101L, M101M, M102J, M102L, M103J, M103K, M301, M501, M502, M503, M504, E000, E102E, E301M, E401M, E501, E601, E602, E701, E703, ES201, Desig27 Addendum 2 Narrative, Specification 27 05 28 Pathways for Communications Systems, 27 41 16 Integrated Audio Video Systems and Equipment, T201J, T201K, T202J, T202K, T202L, T202M, T203J, T203K, T203L, T203M, T300, T306, T307, T308, T310, T311, T400.

A. SPECIFICATION SECTION 00 02 00 – INDIANA NOTICE TO BIDDERS

The Bid date and location are revised as follows:

October 5, 2023 @ 2:00PM
Clark-Pleasant Community Schools Administration Building
50 Center Street
Whiteland, IN 46184

Final Day for RFIs – September 19, 2023
Anticipated Addendum #3 – September 26, 2023

B. SPECIFICATION SECTION 00 20 00 – INFORMATION AVAILABLE TO BIDDERS

Add Paragraph D.

D. WCHS Phase 1 Project Schedule dated September 7, 2023 is being issued as part of this addendum for reference by all contractors.

C. SPECIFICATION SECTION 00 31 00 BID FORM

1. DELETE in its entirety of this specification section and replace with 00 31 00 – BID FORM section included as part of this Addendum.

D. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

A. BID CATEGORY NO. 1 – GENERAL TRADES

Add the following Clarification:

19. Bid Category No. 1 – General Trades Contractor is to provide, install, and remove all temporary plywood window and door protection.

C. BID CATEGORY NO. 3 – STRUCTURAL STEEL/MISC METALS

Add the following Clarifications:

1. Bid Category No. 3 – Structural Steel/Misc Metals Contractor is to provide and install Astro Metal Panels and Steel Posts shown in detail 1/A501.

2. Bid Category No. 3 – Structural Steel/Misc Metals Contractor is to provide and install the metal pan only for the stair systems. **Bid Category No. 1 – General Trades Contractor** is responsible for the concrete in the metal pan stairs.

D. BID CATEGORY NO. 4 – ROOFING

Add the following specification section:

077000 - Roof Specialties and Accessories

Add the following clarification:

9. Note #11 on A-141 Walkover shall be provided and installed by the **Bid Category No. 4 – Roofing Contractor.**

E. BID CATEGORY NO. 5 – METAL STUDS, DRYWALL, AND ACOUSTICAL

Add the following specification section:

072113 - Board Insulation

Add the following clarifications:

7. Bid Category No. 5 – Metal Studs, Drywall, and Acoustical Contractor is responsible for any board insulation behind metal panels that include Z-Girt installation.
8. Bid Category No. 5 – Metal Studs, Drywall, and Acoustical Contractor is responsible for Drawing S102L Note 2 and detail 3/A503 Ramp overbuild framing, sheathing, insulation, and gypcrete. Including the required delegated design.

I. BID CATEGORY NO. 9 – EPOXY TERRAZZO

Add the following clarification:

1. Bid Category No. 9 – Epoxy Terrazzo Contractor is responsible for providing and installing the terrazzo finish stair treads.

K. BID CATEGORY NO. 11 – AQUATIC CONSTRUCTION

Add the following clarification:

1. Bid Category No. 11 – Aquatic Construction Contractor is responsible for providing and installing the tile on the pool deck as well as the associated wall base.

N. BID CATEGORY NO. 15 – ELECTRICAL & TECHNOLOGY

Add the following clarification:

5. TV monitors and stands shall be provided by the owner.
6. Lights PL1 (NAT Light) shall be removed from the lighting package. **Bid Category No. 15 – Electrical & Technology Contractor** shall include an allowance of $130,000 for these light fixtures. See attached revised **SPECIFICATION SECTION 01 21 00 ALLOWANCES.**

E. SPECIFICATION SECTION 01 21 00 ALLOWANCES

DELETE in its entirety of this specification section and replace with 01 21 00 – ALLOWANCES section included as part of this Addendum.

F. SPECIFICATION SECTION 01 23 00 – ALTERNATES

DELETE entirety of this specification section and replace with 01 23 00 – ALTERNATES section included as part of this Addendum.

CONTRACTOR'S BID FOR PUBLIC WORKS FORM NO. 96

Format (Revised 2013)
(Amended for CPCSC)

Whiteland Community High School Addition Phase 1: 3-Story and Natatorium Additions

(Clark-Pleasant Community School Corporation)
(Johnson County, Indiana)

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, Whiteland Community High School Addition Phase 1: 3-Story and Natatorium Additions, in accordance with Plans and Specifications prepared by Lancer Associates Architecture, 427 South College Ave., Suite 103, Indianapolis, IN 46203, 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 – SUN SHADES: Provide Sun Shades above windows on the south side of the academic wing as shown on elevations along with any associated blocking and flashing elements. Base bid: no sun shades on the south side of the south side of the building

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

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

Alternate Bid No. 2 – VIDEO BOARD: Provide video board on the north wall of the pool. Base bid: no video board on the north side of the board, provide conduit and wiring.

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

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

Alternate Bid No. 3 – TEMPERATURE CONTROLS: You may use any of the acceptable controls contractors in your base bid. If your base bid doesn't include **Distech with Niagara 4, installed by Jackson Systems and Supply**, please provide the cost for you to provide **Distech with Niagara 4, installed by Jackson Systems and Supply** in lieu of the controls contractor that you have included in your base bid.

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

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

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

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

SECTION I EXPERIENCE QUESTIONNAIRE

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

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

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

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

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

_____

_____

_____

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

_____

_____

_____

SECTION II PLAN AND EQUIPMENT QUESTIONNAIRE

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

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

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

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

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

SECTION III CONTRACTOR'S FINANCIAL STATEMENT

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

SECTION IV CONTRACTOR NON-COLLUSION AFFIDAVIT

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

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

SECTION V OATH AND AFFIRMATION

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

Dated at _____this _____ day of _____, 20

_____
(Name of Organization)

By
_____

_____
(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF _____)
) SS:
COUNTY OF _____)

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

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

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

_____
Notary Public

My Commission Expires: _____

County of Residence: _____

END OF SECTION 00 31 00

SECTION 01 21 00 – ALLOWANCES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 REQUIREMENTS INCLUDED

A. The Specifications contain Allowances for particular items, methods of construction, quantities of materials, labor for certain items and these stated Allowances shall be included in the total lump sum bid price.
   1. Should the final amounts as determined from actual costs vary from these stated Allowances, the Contract price will be adjusted by Change Order as stated in the Conditions of the Contract.
   2. Under no circumstances shall work exceeding the stated Allowance amounts, proceed without a properly executed Change Order.

B. A "Schedule of Allowances" showing amounts included in each prime Contract Sum, is included at the end of this Section.

C. Product/Materials Allowance: At the earliest feasible date after award of Contract, advise the Architect and Construction Manager of scheduled date when final selection and purchase of each product or system described by each Allowance must be accomplished in order to avoid delays in performance of the Work.
   1. As requested by the Architect, obtain and submit proposals for the work of each Allowance for use in making final selection; include recommendations for selection which are relevant to the proper performance of the Work.
   2. Purchase products and systems as specifically selected (in writing) by the Architect.
   3. Submit proposals and recommendations, for purchase of products or systems of Allowances, in form specified for Change Orders.
   4. When requested, submit a substantiated survey of quantities of materials, as shown in the "Schedule of Values", revised where necessary, and corresponding with Change Order quantities.
   5. Amount of Allowance includes:
      a. Net cost of product
      b. Delivery to the site
      c. Applicable taxes
   6. In addition to amount of Allowance, include in Bid, for inclusion in Contract Sum, Contractor's costs for:
      a. Handling at site, including unloading, uncrating and storage
      b. Protection from elements, from damage
      c. Labor, installation and finishing

d. Other expenses (e.g., testing, adjusting and balancing) required to complete installation
e. Overhead and profit

D. Contingency Allowance: Contingency allowance shall be used only as directed for Owner's purposes. Proposal shall be submitted by Contractor for work requested in format similar to that required for Change Orders. Compensation to the Contractor for work requested utilizing this Allowance shall be for only Contractor's costs as defined by Paragraph 7.3.7 of the General Conditions, except no compensation shall be allowed for overhead and profit. At time of Project closeout, unused amounts remaining in contingency allowance shall be credited to Owner by Change Order.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 PRODUCT ALLOWANCE – Not Applicable

3.02 CONTINGENCY ALLOWANCES

Allow a lump sum additional work required but not indicated on Drawings or reasonably anticipated.

A.	Bid Category No. 01 – General Trades (Undercut Unsuitable Soils)	$150,000
	Bid Category No. 01 – General Trades (Project Signage)	$300,000
	Bid Category No. 01 - General Trades	$120,000
B.	Bid Category No. 02 – Masonry	$25,000
C.	Bid Category No. 03 – Structural Steel/Misc Metals	$25,000
D.	Bid Category No. 04 - Roofing	$25,000
E.	Bid Category No. 05 – Metal Studs, Drywall & Acoustical	$25,000
F.	Bid Category No. 06 – Curtainwall, Storefront & Glazing	$20,000
G.	Bid Category No. 07 – Casework/Millwork	$20,000
H.	Bid Category No. 08 - Flooring	$20,000
I.	Bid Category No. 09 – Epoxy Terrazzo	$20,000
J.	Bid Category No. 10 – Painting	$20,000
K.	Bid Category No. 11 – Aquatic Construction	$50,000
L.	Bid Category No. 12 – Fire Protection	$10,000
M.	Bid Category No. 13 – Plumbing	$40,000
N.	Bid Category No. 14 - HVAC	$100,000
N.	Bid Category No. 15 – Electrical & Technology	$100,000
O.	Bid Category No. 15 – Electrical & Technology (PL1 NAT Light)	$130,000

END OF SECTION 01 21 00

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 PURPOSE

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

1.03 ALTERNATES

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

1.04 SCHEDULE OF ALTERNATES

A. ALTERNATE NO. 1: SUN SHADES: Provide Sun Shades above windows on the south side of the academic wing as shown on elevations along with any associated blocking and flashing elements. Base bid: no sun shades on the south side of the south side of the building.

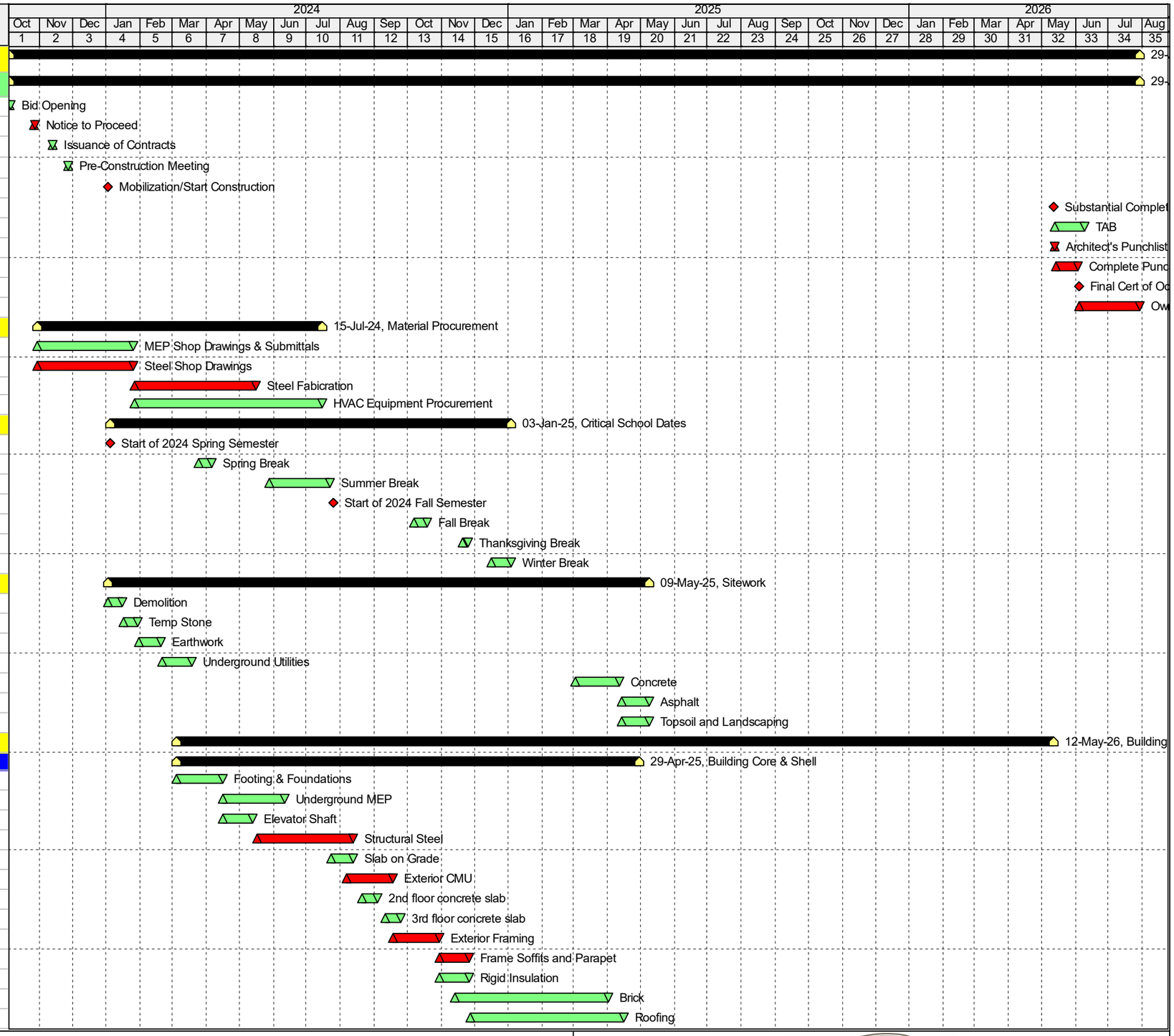
B. ALTERNATE NO. 2: VIDEO BOARD: Provide video board on the north wall of the pool. Base bid: no video board on the north side of the board, provide conduit and wiring.

C. ALTERNATE NO. 3: AUTOMATED LOGIC CORPORATION DDC SYSTEM:
BASE BID: Include any of the approved manufacturers.
Alternate 03: If your base bid doesn't include **Distech with Niagara 4, installed by Jackson Systems and Supply**, please provide the cost for you to provide **Distech with Niagara 4, installed by Jackson Systems and Supply** in lieu of the controls contractor that you have included in your base bid.

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

END OF SECTION 01 23 00

Activity Name	Original Duration	Start	Finish
Clark-Pleasant WCHS Phase 1	728	05-Oct-23	29-Jul-26
Project Administration	728	05-Oct-23	29-Jul-26
Bid Opening	1	05-Oct-23*	05-Oct-23
Notice to Proceed	1	27-Oct-23*	27-Oct-23
Issuance of Contracts	1	13-Nov-23	13-Nov-23
Pre-Construction Meeting	1	27-Nov-23*	27-Nov-23
Mobilization/Start Construction	0	02-Jan-24*	
Substantial Completion	0		12-May-26
TAB	20	13-May-26*	09-Jun-26
Architect's Punchlist	1	13-May-26	13-May-26
Complete Punchlists	15	14-May-26	03-Jun-26
Final Cert of Occupancy	0	04-Jun-26*	
Owner FFE	40	04-Jun-26	29-Jul-26
Material Procurement	180	30-Oct-23	15-Jul-24
MEP Shop Drawings & Submittals	60	30-Oct-23	25-Jan-24
Steel Shop Drawings	60	30-Oct-23	25-Jan-24
Steel Fabrication	80	26-Jan-24	16-May-24
HVAC Equipment Procurement	120	26-Jan-24	15-Jul-24
Critical School Dates	259	04-Jan-24	03-Jan-25
Start of 2024 Spring Semester	0	04-Jan-24*	
Spring Break	10	25-Mar-24*	05-Apr-24
Summer Break	39	28-May-24*	22-Jul-24
Start of 2024 Fall Semester	0	25-Jul-24	
Fall Break	10	07-Oct-24*	18-Oct-24
Thanksgiving Break	4	20-Nov-24*	25-Nov-24
Winter Break	15	16-Dec-24*	03-Jan-25
Sitework	351	02-Jan-24	09-May-25
Demolition	10	02-Jan-24	15-Jan-24
Temp Stone	10	16-Jan-24	29-Jan-24
Earthwork	15	30-Jan-24	19-Feb-24
Underground Utilities	20	20-Feb-24	18-Mar-24
Concrete	30	03-Mar-25*	11-Apr-25
Asphalt	20	14-Apr-25	09-May-25
Topsoil and Landscaping	20	14-Apr-25	09-May-25
Building Addition	568	05-Mar-24	12-May-26
Building Core & Shell	298	05-Mar-24	29-Apr-25
Footing & Foundations	30	05-Mar-24	15-Apr-24
Underground MEP	40	16-Apr-24	11-Jun-24
Elevator Shaft	20	16-Apr-24	13-May-24
Structural Steel	60	17-May-24	12-Aug-24
Slab on Grade	15	23-Jul-24	12-Aug-24
Exterior CMU	30	06-Aug-24	17-Sep-24
2nd floor concrete slab	10	20-Aug-24	03-Sep-24
3rd floor concrete slab	10	11-Sep-24	24-Sep-24
Exterior Framing	30	18-Sep-24	29-Oct-24
Frame Soffits and Parapet	20	30-Oct-24	26-Nov-24
Rigid Insulation	20	30-Oct-24	26-Nov-24
Brick	100	13-Nov-24	01-Apr-25
Roofing	100	27-Nov-24	15-Apr-25



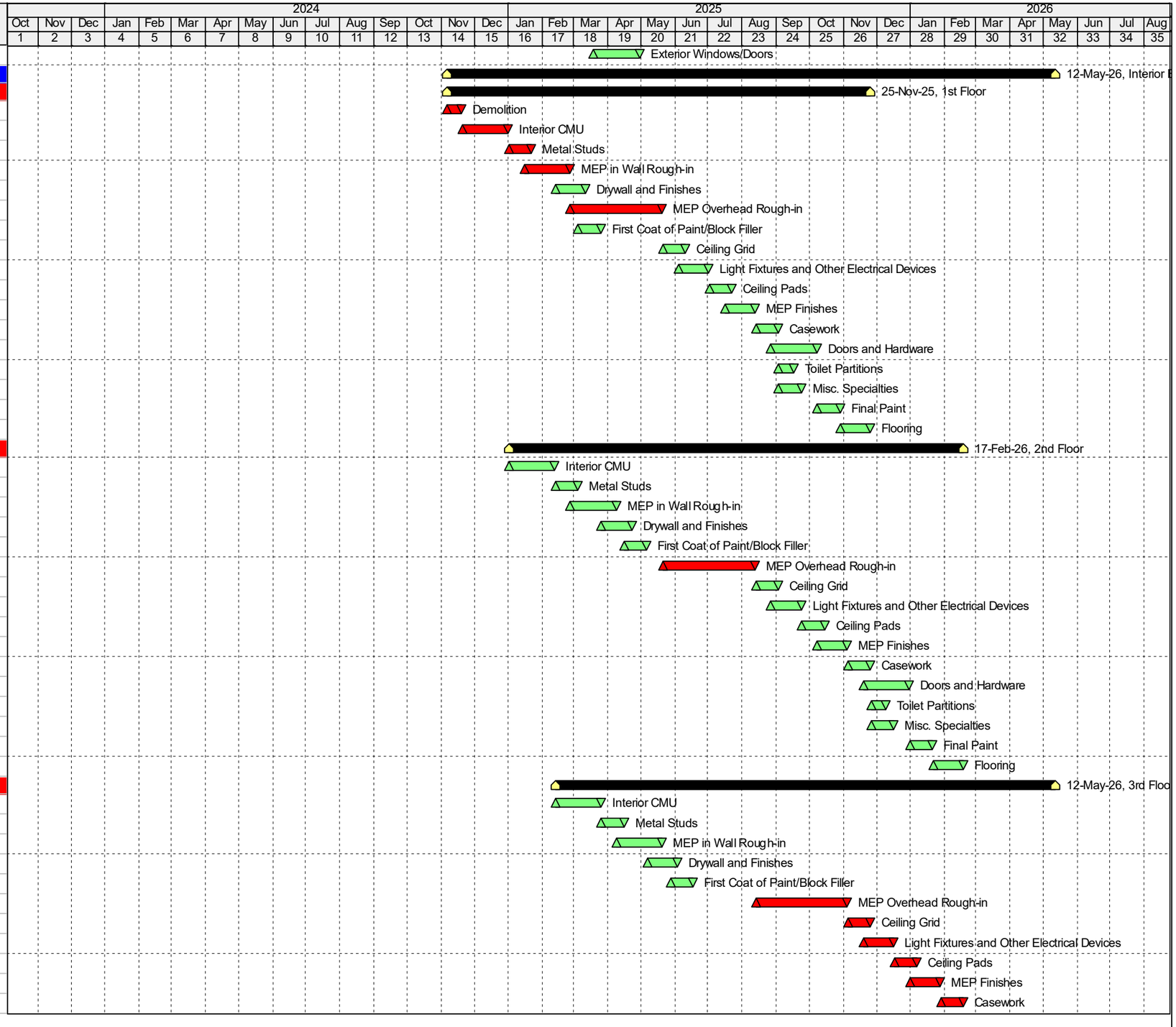
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

Clark-Pleasant WCHS Phase 1 - 221170.01

16-Aug-23 Guideline Schedule

SKILLMAN

Activity Name	Original Duration	Start	Finish
Exterior Windows/Doors	30	19-Mar-25	29-Apr-25
Interior Build Out	395	06-Nov-24	12-May-26
1st Floor	275	06-Nov-24	25-Nov-25
Demolition	10	06-Nov-24	19-Nov-24
Interior CMU	30	20-Nov-24	31-Dec-24
Metal Studs	15	01-Jan-25	21-Jan-25
MEP in Wall Rough-in	30	15-Jan-25	25-Feb-25
Drywall and Finishes	20	12-Feb-25	11-Mar-25
MEP Overhead Rough-in	60	26-Feb-25	20-May-25
First Coat of Paint/Block Filler	15	05-Mar-25	25-Mar-25
Ceiling Grid	15	21-May-25	10-Jun-25
Light Fixtures and Other Electrical Devices	20	04-Jun-25	01-Jul-25
Ceiling Pads	15	02-Jul-25	22-Jul-25
MEP Finishes	20	16-Jul-25	12-Aug-25
Casework	15	13-Aug-25	02-Sep-25
Doors and Hardware	30	27-Aug-25	07-Oct-25
Toilet Partitions	10	03-Sep-25	16-Sep-25
Misc. Specialties	15	03-Sep-25	23-Sep-25
Final Paint	15	08-Oct-25	28-Oct-25
Flooring	20	29-Oct-25	25-Nov-25
2nd Floor	295	01-Jan-25	17-Feb-26
Interior CMU	30	01-Jan-25	11-Feb-25
Metal Studs	15	12-Feb-25	04-Mar-25
MEP in Wall Rough-in	30	26-Feb-25	08-Apr-25
Drywall and Finishes	20	26-Mar-25	22-Apr-25
First Coat of Paint/Block Filler	15	16-Apr-25	06-May-25
MEP Overhead Rough-in	60	21-May-25	12-Aug-25
Ceiling Grid	15	13-Aug-25	02-Sep-25
Light Fixtures and Other Electrical Devices	20	27-Aug-25	23-Sep-25
Ceiling Pads	15	24-Sep-25	14-Oct-25
MEP Finishes	20	08-Oct-25	04-Nov-25
Casework	15	05-Nov-25	25-Nov-25
Doors and Hardware	30	19-Nov-25	30-Dec-25
Toilet Partitions	10	26-Nov-25	09-Dec-25
Misc. Specialties	15	26-Nov-25	16-Dec-25
Final Paint	15	31-Dec-25	20-Jan-26
Flooring	20	21-Jan-26	17-Feb-26
3rd Floor	325	12-Feb-25	12-May-26
Interior CMU	30	12-Feb-25	25-Mar-25
Metal Studs	15	26-Mar-25	15-Apr-25
MEP in Wall Rough-in	30	09-Apr-25	20-May-25
Drywall and Finishes	20	07-May-25	03-Jun-25
First Coat of Paint/Block Filler	15	28-May-25	17-Jun-25
MEP Overhead Rough-in	60	13-Aug-25	04-Nov-25
Ceiling Grid	15	05-Nov-25	25-Nov-25
Light Fixtures and Other Electrical Devices	20	19-Nov-25	16-Dec-25
Ceiling Pads	15	17-Dec-25	06-Jan-26
MEP Finishes	20	31-Dec-25	27-Jan-26
Casework	15	28-Jan-26	17-Feb-26



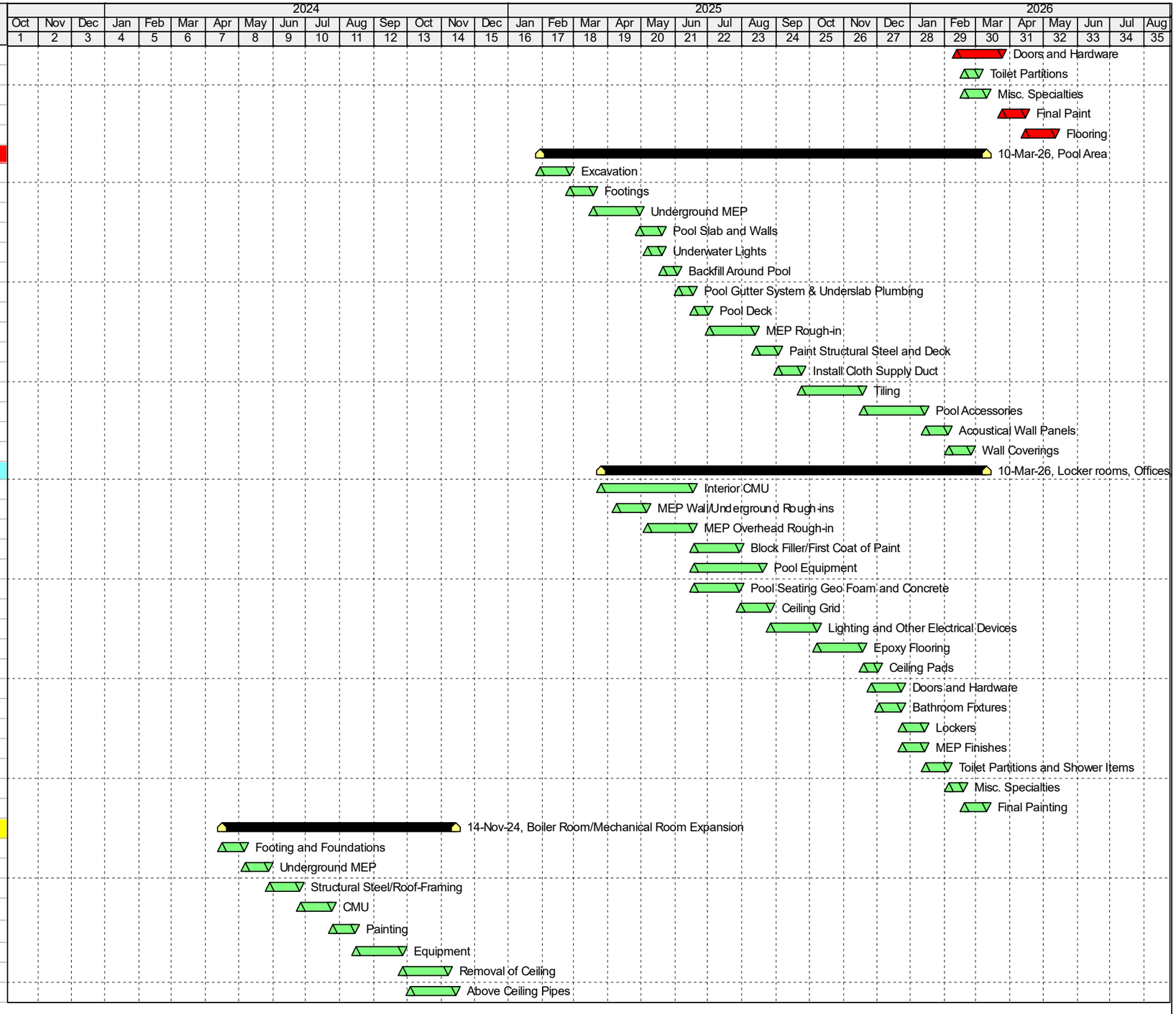
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

Clark-Pleasant WCHS Phase 1 - 221170.01

16-Aug-23 Guideline Schedule

SKILLMAN

Activity Name	Original Duration	Start	Finish
Doors and Hardware	30	11-Feb-26	24-Mar-26
Toilet Partitions	10	18-Feb-26	03-Mar-26
Misc. Specialties	15	18-Feb-26	10-Mar-26
Final Paint	15	25-Mar-26	14-Apr-26
Flooring	20	15-Apr-26	12-May-26
Pool Area	290	29-Jan-25	10-Mar-26
Excavation	20	29-Jan-25	25-Feb-25
Footings	15	26-Feb-25	18-Mar-25
Underground MEP	30	19-Mar-25	29-Apr-25
Pool Slab and Walls	15	30-Apr-25	20-May-25
Underwater Lights	10	07-May-25	20-May-25
Backfill Around Pool	10	21-May-25	03-Jun-25
Pool Gutter System & Underslab Plumbing	10	04-Jun-25	17-Jun-25
Pool Deck	10	18-Jun-25	01-Jul-25
MEP Rough-in	30	02-Jul-25	12-Aug-25
Paint Structural Steel and Deck	15	13-Aug-25	02-Sep-25
Install Cloth Supply Duct	15	03-Sep-25	23-Sep-25
Tiling	40	24-Sep-25	18-Nov-25
Pool Accessories	40	19-Nov-25	13-Jan-26
Acoustical Wall Panels	15	14-Jan-26	03-Feb-26
Wall Coverings	15	04-Feb-26	24-Feb-26
Locker rooms, Offices, Mech Rooms, Etc.	250	26-Mar-25	10-Mar-26
Interior CMU	60	26-Mar-25	17-Jun-25
MEP Wall/Underground Rough-ins	20	09-Apr-25	06-May-25
MEP Overhead Rough-in	30	07-May-25	17-Jun-25
Block Filler/First Coat of Paint	30	18-Jun-25	29-Jul-25
Pool Equipment	45	18-Jun-25	19-Aug-25
Pool Seating Geo Foam and Concrete	30	18-Jun-25	29-Jul-25
Ceiling Grid	20	30-Jul-25	26-Aug-25
Lighting and Other Electrical Devices	30	27-Aug-25	07-Oct-25
Epoxy Flooring	30	08-Oct-25	18-Nov-25
Ceiling Pads	10	19-Nov-25	02-Dec-25
Doors and Hardware	20	26-Nov-25	23-Dec-25
Bathroom Fixtures	15	03-Dec-25	23-Dec-25
Lockers	15	24-Dec-25	13-Jan-26
MEP Finishes	15	24-Dec-25	13-Jan-26
Toilet Partitions and Shower Items	15	14-Jan-26	03-Feb-26
Misc. Specialties	10	04-Feb-26	17-Feb-26
Final Painting	15	18-Feb-26	10-Mar-26
Boiler Room/Mechanical Room Expansion	150	16-Apr-24	14-Nov-24
Footing and Foundations	15	16-Apr-24	06-May-24
Underground MEP	15	07-May-24	28-May-24
Structural Steel/Roof-Framing	20	29-May-24	25-Jun-24
CMU	20	26-Jun-24	24-Jul-24
Painting	15	25-Jul-24	14-Aug-24
Equipment	30	15-Aug-24	26-Sep-24
Removal of Ceiling	30	27-Sep-24	07-Nov-24
Above Ceiling Pipes	30	04-Oct-24	14-Nov-24



Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

Clark-Pleasant WCHS Phase 1 - 221170.01

16-Aug-23 Guideline Schedule

SKILLMAN

LANCER ASSOCIATES ARCHITECTURE

ADDENDUM NO. TWO

PROJECT: CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
PHASE 1: 3-STORY AND NATATORIUM ADDITION

PROJECT NUMBER: 22130

DATE OF ADDENDUM: September 06th, 2023

THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND IS ISSUED IN ACCORDANCE WITH THE INSTRUCTIONS TO BIDDERS. ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY SIGNING THE ADDDENDUM ACKNOWLEDGMENT SECTION OF THE BID FORM.

QUESTIONS

Q1: What is the edge detail on the atrium cloud ceilings? The ones on the 3rd floor RCP's.
A: See ceiling detail 4/A124

Q2: APC-C calls for 2x4 on the interior types, but on the floor plans, it shows 2x2. Please confirm.
A: Provide 2x2 for APC-C.

Q3: Please clarify that there are no walls that receive insulation or sound caulking as no modifier is called out in wall types.
A: All interior walls will have sound insulation and sound caulking as shown in the sketches wall types.

Q4: The exterior soffit on 2nd floor M and L RCP's show EIFS, but there is a note (1) that says metal panels. Please confirm which is intended at this location.
A: flat metal panel soffit similar to citadel soffit panels.

Q5: Single interior aluminum doors type D6 are full glass no mid rail. Pairs of interior doors type D5 have a 6" mid rail. Is this correct?
A: Yes

Q6: Doors M105, M106.1, and M106.2 show door type D1 flush. They are scheduled aluminum. There is not a flush aluminum door specification. Please advise correct door type.
A: Doors M105, M106.1, and M106.2 are FRP door and frame

Q7: Doors K102.1, K104.1, K106.1, K108.1, and K110.1 are scheduled as HM frames with wood doors. Sheet A101K at door K104.1 shows elevation to be 8 on A612. 8 on A 612 calls for storefront frame SF29. Based on the floor plan layout. They look like storefront. Please advise.
A: Change these doors to be aluminum storefront

Q8: Sheet A002 shows the Ax, Ax.1 and Ax.4 walls only getting sound insulation at walls called out as insulative and then says to ca002heck the wall naming convention. The wall naming convention does not give any indication of how insulative walls are labeled. Some blowup details show sound insulation, but by wall type nothing would be sound insulated. Please verify there is no sound insulation required or provide which walls are sound insulative.
A: Provide sound batt to Ax, Ax.1 and Ax.4 walls.

Q9: There is not a detail showing the wall on the west side of Flex J2000. Is there a drywall partition and bulkhead running down to the first-floor acoustical ceiling?
A: Yes, see drawing 3/A301

Q10: Is the type B acoustical ceiling tile Clean Room VL unperforated or perforated?
A: Unperforated

Q11: Is the type C acoustical ceiling tile Ceramaguard perforated or unperforated?
A: Ceramaguard perforated 24x24x5/8"

Q12: Which bid package is responsible for the Astro Metal Panels and Steel Posts shown in detail 1/A501?
A: Skillman to response

Q13: Per SPEC Section 271119-4 2.4.E.1, it states that the Work Area patch cords shall be Owner Furnished and Owner Installed. Can you confirm that this is correct?
A: Confirmed, work area patch cords shall be OFOI.

Q14: Per SPEC Section 271119-4 2.4.E.2, it states that the MDF/IDF patch cords shall be Contractor Furnished and Owner Installed and shall be 1ft in length. Can you confirm that this is correct?
A: Confirmed, telecommunication room patch cords shall be CFOI in 1ft lengths. Patch cords shall match horizontal cable and jack color.

Q15: The drawing notes indicate steel for custom steel railings, but the specs indicate aluminum.
A: Steel railings throughout the new construction except aluminum railing in the Natatorium space.

Q16: Can you clarify which stairs and areas are to have the custom steel railings with Astro Metal Craft? Also, can you share what the perforation pattern is for the infill panels?
A: All the railing in the Atrium space and the infill panels is perforated metal sheet.

Q17: Detail 11/A142 shows a roof to wall expansion joint. Spec Section 079513, 3.5 Schedules does not list roof expansion joints. Roof expansion joints are not listed in our Scope of Work.
A: Roofing contractor to provide typical 2 inches roof expansion joint.

Q18: Drawing 2/A141, clarify keynote 13 "Patch Existing Roof, Slope to Drain".
A: Demolishing existing rooftop louvers per MEP drawings. Patch existing deck, clean, and install new insulation and roofing membranes to match adjacent roof.

Q19: Drawing 1/A141, scope/define "Build Up Roof with Insulation Over Stair Tower Flat Roof. Slope To Drain"
A: Building up flat roof and 6 inches minimum rigid insulation and slope to drain.

Q20: CORRECTION TO ADDEDUNDUM ONE QUESTION: "Railings Per OSHA Requirements" is not shown or stated as in Detail 5 on same page. Is Railing required?
A: Yes, railing by roof hatch manufacturers.

Q21: In addendum 1 Q/A question 12 regarding the interior vestibules being thermally broken and having insulated glass. The answer in the addendum is no. I assumed that to mean the vestibules are non-thermal storefront with ¼" glass. Addendum 1 also re-issued sheet A611. The new sheet still shows the vestibules as thermally broken. We need clarification please.
A: updated window schedule, see addendum 02.

Q22: Clarification on brick Color C selection, this has been left blank in spec section 042100.
A: No brick color C.

Q23: Also please provide clarification for each locations of the different color brick on elevations 4 & 5/A201. Brick type 2 (color B) and Brick type 3 (color C) are shown with same symbol and shading, and it is not possible to distinguish between the two different brick. Many of the brick locations are not even labeled on the elevations so it is not clear where brick colors A, B & C start and stop. Also, Unit A elevations 2 & 3/A203 do not have labels for brick type as well as elevation 1/A203 @ typical window surrounds. Could color renderings showing different color brick be provided?
A: No brick color C**.** See updated sheet A201 & A203 in addendum 02.

Q25: Please confirm that building wrap listed in spec section 04 21 00.2.3.O will be required in addition to the AVB called for in Spec section 07 27 26. 04 21 00.2.3.O says to provided, whether shown on plans or not.
A: No, only provide building wrap when there is no air water barrier.

Q26: Spec section 033001 calls for exposed concrete surfaces to receive a smooth-formed finish. The exterior seat walls and other exposed concrete items will be formed smooth. They will not receive any rubbed material or coating. Please confirm.
A:. Regarding the site concrete wall finish, the expectation was for a smooth-form finish and not a rubbed finish. We've had inconsistent results with rubbed finish that has been prone to flaking and cracking in short order. Unless Skillman has a guaranteed method for making it perfect and last, we'd prefer to stick to the spec as written.

SPECIFICATIONS

1. Spec Section 04 21 00 Unit Masonry
    a. Remove 2.1 A.3. "Color C:"
2. Spec Section 07 21 19 Spray Foam Insulation:
    a. Add Xcelus XLS-2000 to 2.1.A as an approved equal manufacturer.
3. Spec Section 07 27 26 Air-Water Resistive Barrier:
    a. Add Prosoco R-Guard Spray Wrap MVP to 2.1.A as an approved equal.
4. Spec Section 08 43 29 Sliding Glass Doors:
    a. Add Kawneer 1010 to 2.1.A as an approved equal if the product meets the 2.4 B.5.
    b. Change 2.4 B.5. to "ADA Round Designer Pull Handle."
5. Spec Section 09 77 13 Site Fabricated Stretched Fabric Systems:
    a. Add FabriTRAK Systems Inc to 2.1.A as an approved equal manufacturer.

LANCER ASSOCIATES ARCHITECTURE

6. Spec Section 10 50 00 Solid Plastic Lockers:
    a. Add Scranton Products Tufftec Plastic Lockers to 2.1.A as an approved equal.
    b. Add Columbia/PSiSC Solid Plastic Lockers to 2.1.A as an approved equal.
7. Spec Section 12 24 00 HYDRAULIC ELEVATORS:
    a. Change 2.9 A. 1 to “Rated Load: 5000 lb, to be sized per AIA Hospital design”.
    b. Change 2.9 A. 5. E. to “Provide downlight type ceiling in stainless steel #4 with LED lights.”
    c. Change 2.9 A. 5. g. to “Flooring: by others to match building.”

8. Spec Section 12 24 13 Window Shades:
    a. Add Hunter Douglas Architectural and Lutron to 2.1.A as an approved equal manufacturer.
9. Spec Section 12 53 00 Science Casework:
    a. Add Case Systems Science Casework and Latitude Student Table to 2.1.A as an approved equal.

DRAWINGS REVISIONS:

1. Drawing Number: A002
   Drawing Title: INTERIOR TYPES
   Revision:

   Drawing 1/A002, changed APC-C note to “2x2 Grid System”
   Removed wall detail “Ax.4”
   Changed “Ax” and “Ax.1” STC Table

2. Drawing Number: AD122D
   Drawing Title: DEMOLITION REFLECTED CEILING PLAN - SECOND FLOOR - UNIT D
   Revision:

   Added demo ceiling to scope of work.
   Added Plan Notes/Keynote 7 “DEMO SUSPENDED CEILING TILE PER STRUCTURAL DRAWINGS. PATCH, CLEAN, AND PREPARE SURFACES FOR NEW WORK.”

3. Drawing Number: AD122E
   Drawing Title: DEMOLITION REFLECTED CEILING PLAN - SECOND FLOOR - UNIT E
   Revision:

   Added demo ceiling to scope of work.
   Added Plan Notes/Keynote 7 “DEMO SUSPENDED CEILING TILE PER STRUCTURAL DRAWINGS. PATCH, CLEAN, AND PREPARE SURFACES FOR NEW WORK.”

4. Drawing Number: A112
   Drawing Title: ENLARGED PLANS
   Revision:

   Drawing 1/A112, added elevator underline and clear-inside dimension for the hoistway plan.

5. Drawing Number: A122J
   Drawing Title: REFLECTED CEILING PLAN - SECOND FLOOR - UNIT J
   Revision:

   Added new ceiling to scope of work.
   Changed Plan Notes/Keynote 4 “NEW CEILING AS NEEDED AFTER STRUCTURE REINFORCEMENT.”

6. Drawing Number: A122K
   Drawing Title: REFLECTED CEILING PLAN - SECOND FLOOR - UNIT K
   Revision:

   Added new ceiling to scope of work.
   Changed Plan Notes/Keynote 4 “NEW CEILING AS NEEDED AFTER STRUCTURE REINFORCEMENT.”

7. Drawing Number: A141
   Drawing Title: ROOF PLAN
   Revision:

   Drawing 2/A141, extended roof scope of work above BOILER ROOM.
   Changed keynote 13 to “DEMO EXISTING ROOFTOP LOUVERS, PATCH, CLEAN, AND NEW ROOF SLOPE TO DRAIN”

8. Drawing Number: A142
   Drawing Title: ROOF DETAILS
   Revision:

   Changed detail 3/A142 title to “DRAIN DETAIL”
   Changed detail 4/A142 title to “ROOF HATCH DETAIL”
   Changed detail 5/A142 title to “ROOF HATCH AND LADDER”
   Detail 7/A142 added treated wood blockings.
   Detail 7/A142 added note “PRESERVATIVE TREATED WOOD BLOCKING AS NEEDED”
9. Drawing Number: A201
   Drawing Title: EXTERIOR ELEVATIONS
   Revision:

   Removed keynote 5 in Elevation Notes - Exterior
   Removed keynote 5 to 2/A201, 4/A201, 5/A201

10. Drawing Number: A203
    Drawing Title: EXTERIOR ELEVATIONS
    Revision:

    Added note “BRICK COLOR A” and “BRICK COLOR B” to 1/A203
    Added note “BRICK COLOR A” to 2/A203 & 3/A203

11. Drawing Number: A301
    Drawing Title: BUILDING SECTIONS
    Revision:

    Drawing 4/A301, added dimension from the top landing to the bottom of the hoist beam.

12. Drawing Number: A501
    Drawing Title: DETAILS
    Revision:

    Changed 8/A501 note to “3/4” TONGUE AND GROOVE WOOD PLANK”
    Changed 10/A501 note to “3/4” TONGUE AND GROOVE WOOD PLANK”

13. Drawing Number: A601
    Drawing Title: DOOR SCHEDULE
    Revision:

    Changed M105, M106.1, and M106.2 door and door frame to FRP.
    Changed K102.1, K104.1, K106.1, K108.1, and K110.1 to Aluminum.

14. Drawing Number: A611
    Drawing Title: WINDOW SCHEDULE
    Revision:

    Changed 10/A611 note to “4 1/2" ALUMINUM STOREFRONT”
    Changed 16/A611 note to “4 1/2" ALUMINUM STOREFRONT”
    Changed 18/A611 note to “4 1/2" ALUMINUM STOREFRONT”

15. Drawing Number: A612
    Drawing Title: WINDOW SCHEDULE
    Revision:

    Changed 2/A612 note to “4 1/2" ALUMINUM STOREFRONT”

16. Drawing Number: A720
    Drawing Title: FINISH LEGEND
    Revision:

    Changed WT-1 note to “RUN TILE TO TOP OF EB-1. USE SCHLUTER TRIM FOR TRANSITION.”
    Changed WT-2 note to “RUN TILE TO TOP OF EB-1. USE SCHLUTER TRIM FOR TRANSITION.”

17. Drawing Number: A732
    Drawing Title: INTERIOR DETAILS
    Revision:

    Added Detail 7/A732, Natatorium Video Board Housing

18. Drawing Number: A753
    Drawing Title: INTERIOR ELEVATIONS
    Revision:

    Added Detail 7/A732 on Elevation 3, Pool Deck M100 – West for Natatorium Video Board Housing

LANCER ASSOCIATES ARCHITECTURE

Attachments: A002, AD122D, AD122E, A112, A122J, A122K, A141, A142, A201, A203, A301, A501, A611, A612, A720, A732, A753, Crossroad Engineers Addendum 2 Narrative, 207, 301, 400, 500, 901, Context Design Addendum 2 Narrative, L101, L102, L602, Primary Engineering Addendum 2 Narrative, Specification 077000 Roof Specialties and Accessories, FP201, P001, P100L, P100M, P101AGH, P101L, P102J, P102K, P103J, P103KLM, P501, M001E, M003, M101A, M101GH, M101J, M101K, M101L, M101M, M102J, M102L, M103J, M103K, M301, M501, M502, M503, M504, E000, E102E, E301M, E401M, E501, E601, E602, E701, E703, ES201, Desig27 Addendum 2 Narrative, Specification 27 05 28 Pathways for Communications Systems, 27 41 16 Integrated Audio Video Systems and Equipment, T201J, T201K, T202J, T202K, T202L, T202M, T203J, T203K, T203L, T203M, T300, T306, T307, T308, T310, T311, T400.

End of Addendum 2

INTERIOR WALL NAMING CONVENTION

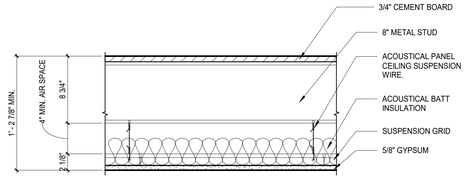
A 4 .1 A

WALL CORE MATERIAL
A - NON-STRUCTURAL METAL STUDS
B - CONCRETE MASONRY UNITS
D - SHAFT WALL (CH STUDS)
F - FURRING WALL
W - WOOD STUDS

THICKNESS OF WALL CORE
NOMINAL DIMENSION OF WALL CORE

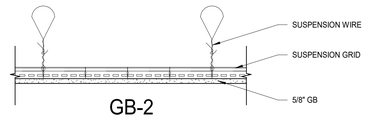
WALL CHARACTERISTIC MODIFIER (OPTIONAL)
REF. SHEET A002 FOR ADDITIONAL INFORMATION

WALL TYPE MODIFIER (OPTIONAL)
.1 - ONE SIDED GYP. WALLBOARD
.2 - WALL STOPS 6" MIN. ABOVE CEIILING
.3 - BOTH LINE ITEMS .1 AND .2
.4 - DOUBLE LAYER OF GYP. BOTH SIDES
.5 - "PONY" WALL, REF. PLANS FOR HEIGHT



GYPSUM BOARD CEILING 2 HR FIRE RATING - UL H505

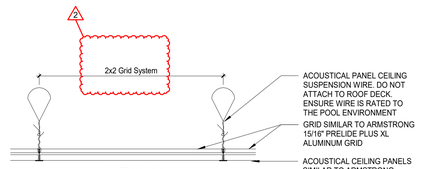
GB-3



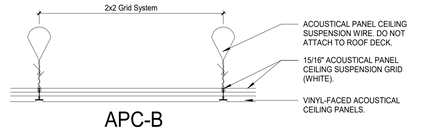
GB-2

GB-1

INSIDE THE POOL AND POOL LOCKER ROOMS USE G90 STUDS AND PERMABASE CEMENT BOARD WITH POOL ENCLOSURE COATING OR SIMILAR



APC-C

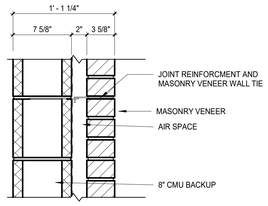


APC-B

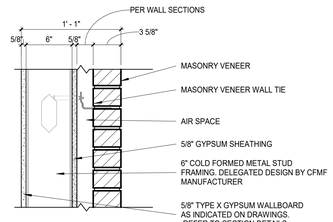
APC-A

1 CEILING TYPES

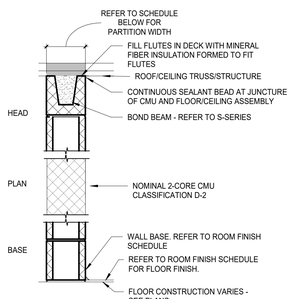
SCALE: 1 1/2" = 1'-0"



'E7'

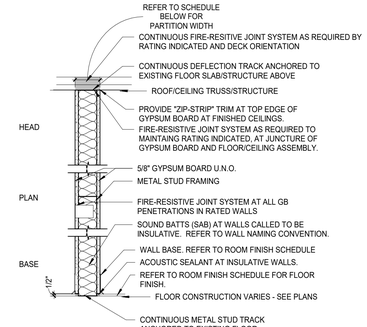


'E2.2'



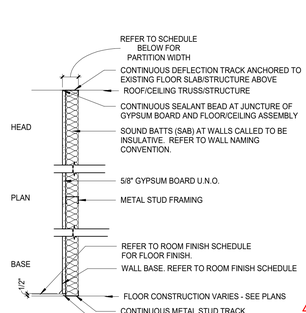
'Bx'

WALL	WIDTH PART	WIDTH CORE	FIRE RATING	UL LISTING	STC	STC TEST
B4	3 5/8"	3 5/8"				
B6	5 5/8"	5 5/8"				
B8	7 5/8"	7 5/8"		ULC-U905		
B10	9 5/8"	9 5/8"				
B12	11 5/8"	11 5/8"				



'Ax'

WALL	WIDTH PART	WIDTH CORE	FIRE RATING	UL LISTING	STC	STC TEST
A3	4 7/8"				SAB	
A4	4 7/8"	3 5/8"			SAB	
A6	7 1/4"	6"			SAB	
A8	9 1/4"	8"			SAB	



'Ax.1'

WALL	WIDTH PART	WIDTH CORE	FIRE RATING	UL LISTING	STC	STC TEST
A2.1	2 1/4"	1 5/8"			SAB	
A3.1	3 1/8"	2 1/2"			SAB	
A4.1	4 1/4"	3 5/8"			SAB	
A6.1	6 5/8"	6"			SAB	

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

REVISIONS:

#	Date	Desc.
2	09/06/202	ADDENDUM 02
3		

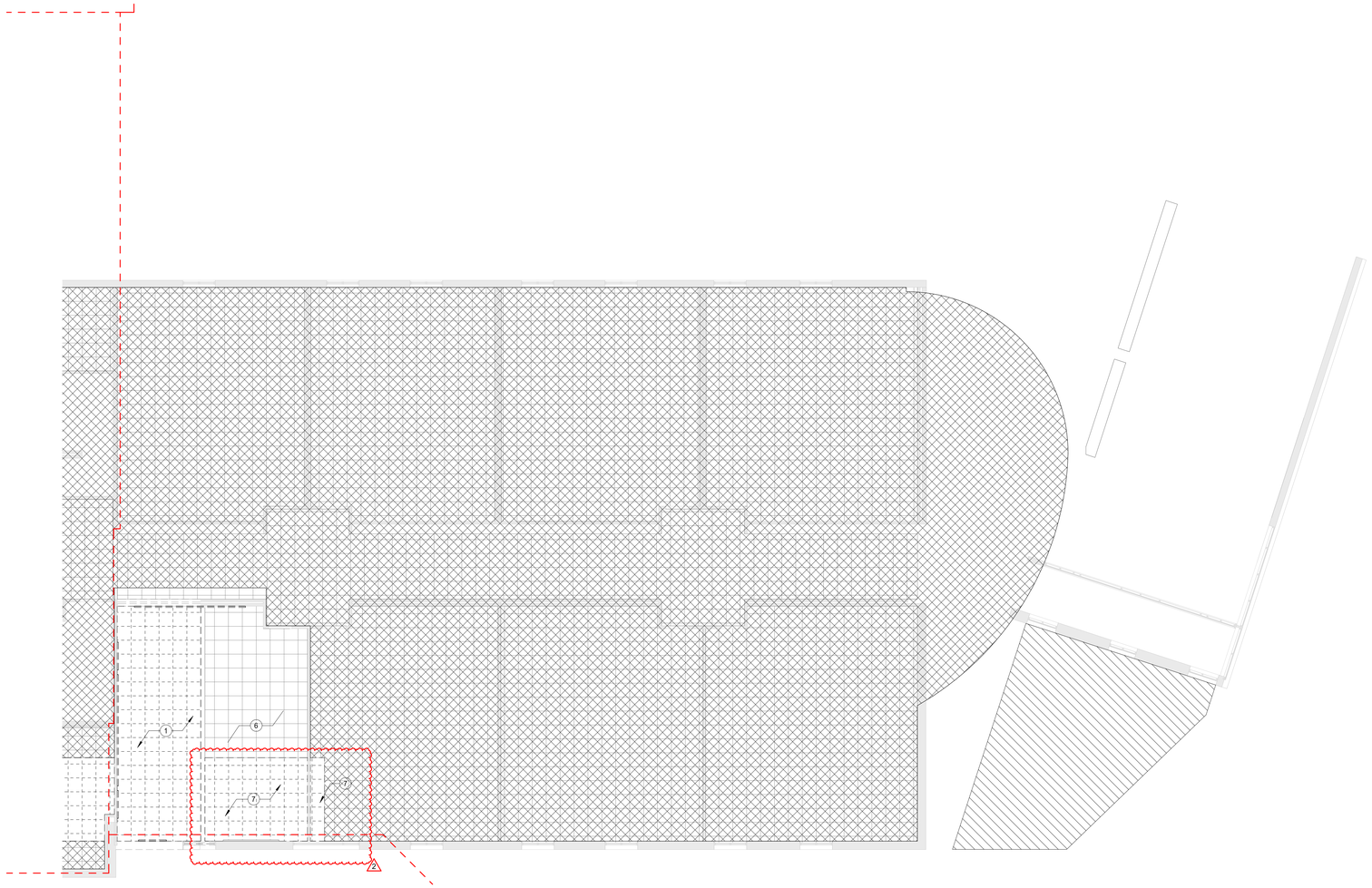
100% CONSTRUCTION DOCUMENT

PROJECT:	#22130
DATE:	08-11-2023
DRAWN BY:	Author

INTERIOR TYPES

A002

PLOT DATE/TIME:9/6/2023 4:49:54 PM



GENERAL NOTES

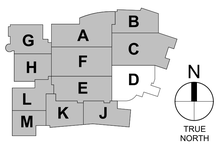
1. COORDINATE DEMOLITION WORK WITH NEW WORK.
2. CLEAN AND PREP SURFACES FOR NEW WORK.
3. COORDINATE DEMOLITION WORK WITH MEP WORK.
4. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ANY DEMOLISHED DOORS, CASEWORK, MARKERBOARDS, CHALKBOARDS, ETC.

1. OUTSIDE OF SCOPE OF WORK

PLAN NOTES - DEMO RCP

1 DEMO SUSPENDED CEILING TILE TO THE EXTENT INDICATED. PATCH, CLEAN, AND PREPARE SURFACES FOR NEW WORK.
2 DEMO GYPSUM CEILING TO THE EXTENT INDICATED. PATCH, CLEAN, AND PREPARE SURFACES FOR NEW WORK
3 DEMO EXISTING CEILING AND SOFFIT.
4 DEMO ALL EXISTING CANOPY AND STRUCTURE.
5 DEMO EXISTING CEILING AS NEEDED TO ACCOMMODATE MEP WORK. PUT BACK CEILINGS, LIGHTS, ETC. AFTER MEP WORK IS COMPLETE
6 PRESERVE EXISTING CEILING
7 DEMO SUSPENDED CEILING TILE PER STRUCTURAL DRAWINGS. PATCH, CLEAN, AND PREPARE SURFACES FOR NEW WORK.

1 DEMO REFLECTED CEILING PLAN - SECOND FLOOR - UNIT D
SCALE: 1/8" = 1'-0"



LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

REVISIONS:

#	Date	Desc.
2	09/06/202	ADDENDUM 02
3		

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 08-11-2023
DRAWN BY: Author

DEMOLITION REFLECTED CEILING PLAN - SECOND FLOOR - UNIT D

AD122D

PLOT DATE/TIME: 8/9/2023 8:11:10 PM

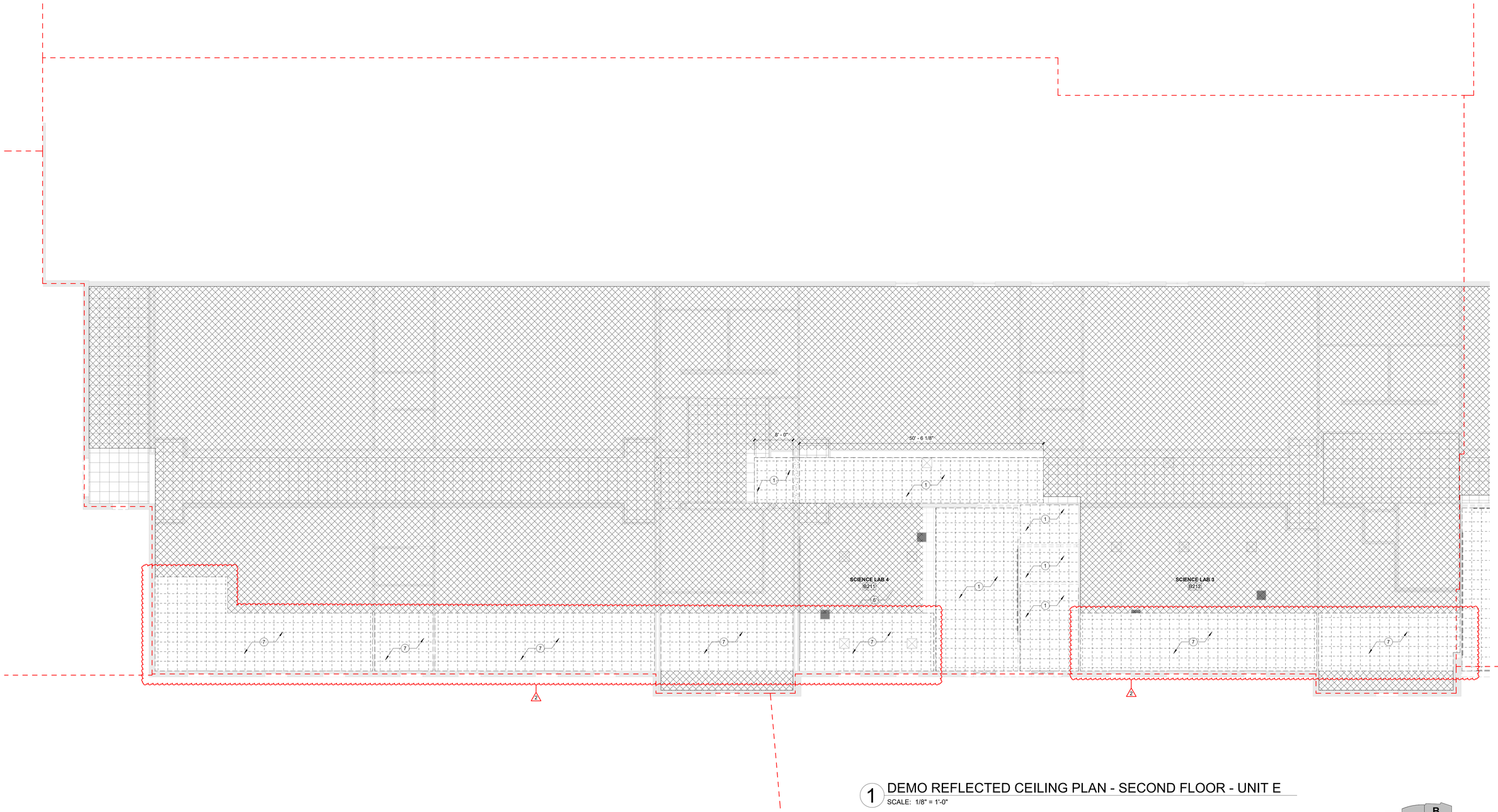
PLAN NOTES - DEMO RCP

1. DEMO SUSPENDED CEILING TILE TO THE EXTENT INDICATED. PATCH, CLEAN, AND PREPARE SURFACES FOR NEW WORK.
2. DEMO GYPSUM CEILING TO THE EXTENT INDICATED. PATCH, CLEAN, AND PREPARE SURFACES FOR NEW WORK
3. DEMO EXISTING CEILING AND SOFFIT.
4. DEMO ALL EXISTING CANOPY AND STRUCTURE.
5. DEMO EXISTING CEILING AS NEEDED TO ACCOMMODATE MEP WORK. PUT BACK CEILINGS, LIGHTS, ETC. AFTER MEP WORK IS COMPLETE
6. PRESERVE EXISTING CEILING.
7. DEMO SUSPENDED CEILING TILE PER STRUCTURAL DRAWINGS. PATCH, CLEAN, AND PREPARE SURFACES FOR NEW WORK.

GENERAL NOTES

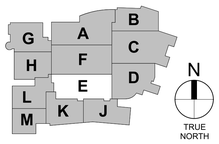
1. COORDINATE DEMOLITION WORK WITH NEW WORK.
2. CLEAN AND PREP SURFACES FOR NEW WORK.
3. COORDINATE DEMOLITION WORK WITH MEP WORK.
4. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ANY DEMOLISHED DOORS, CASEWORK, MARKERBOARDS, CHALKBOARDS, ETC.

1. OUTSIDE OF SCOPE OF WORK



1 DEMO REFLECTED CEILING PLAN - SECOND FLOOR - UNIT E

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



LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

TERYL L CRIPE
REGISTERED
NO
8500133
STATE OF
INDIANA

REVISIONS:		
#	Date	Desc.
2	09/06/2022	ADDENDUM 02

100% CONSTRUCTION DOCUMENT

PROJECT:	#22130
DATE:	08-11-2023
DRAWN BY:	Author

DEMOLITION REFLECTED CEILING PLAN - SECOND FLOOR - UNIT E

AD122E

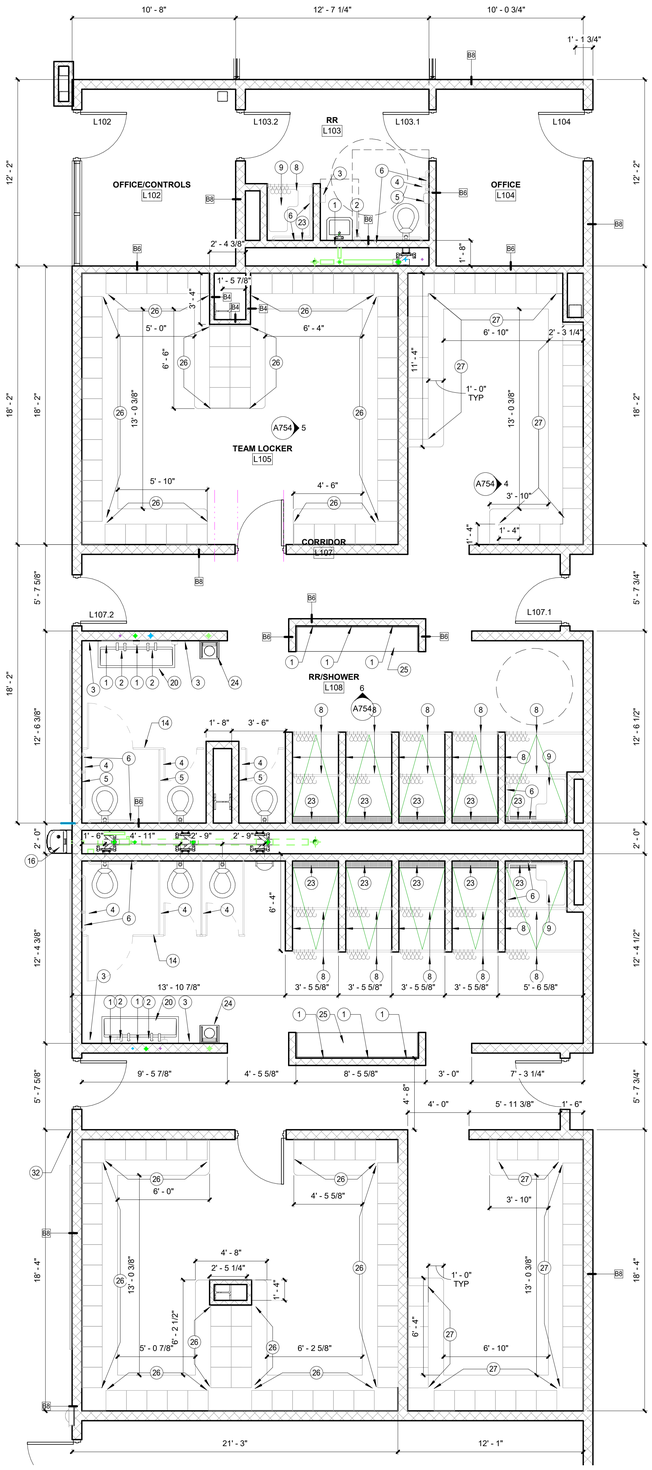
PLOT DATE/TIME 8/9/2022 8:11:28 PM

GENERAL NOTES

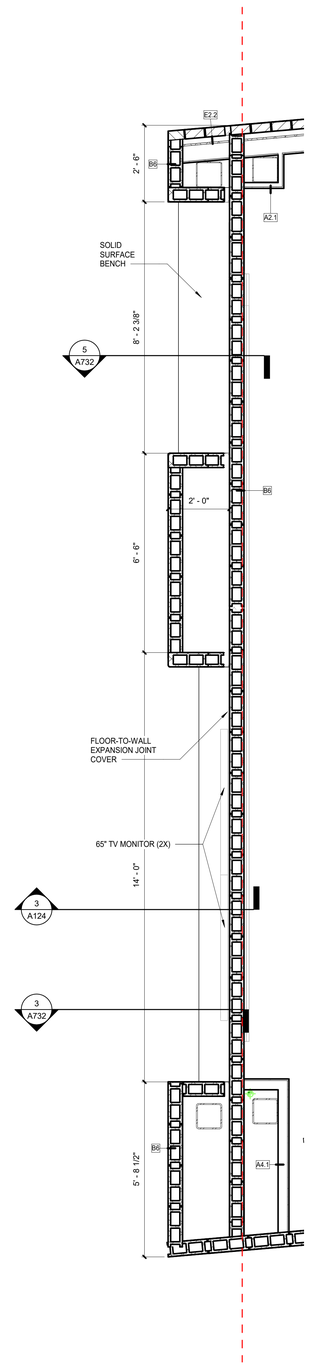
1. PROVIDE HOOKS ON ALL PARTITION DOORS
2. PROVIDE HOOKS ON ALL DOORS INTO SINGLE OCCUPANCY RESTROOMS
3. MOUNT HOOKS AT 48" AFF MAX IN ALL ACCESSIBLE RESTROOMS

ENLARGED FLOOR PLAN NOTE

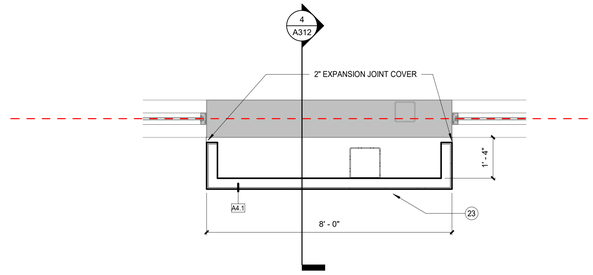
1 MIRROR, CONTRACTOR SUPPLIED, CONTRACTOR INSTALLED
2 SOAP DISPENSER OWNER SUPPLIED, CONTRACTOR INSTALLED
3 PAPER TOWEL DISPENSER, OWNER SUPPLIED, CONTRACTOR INSTALLED
4 TOILET PAPER DISPENSER, OWNER SUPPLIED, CONTRACTOR INSTALLED
5 SANITARY NAPKIN DISPOSAL, CONTRACTOR SUPPLIED, CONTRACTOR INSTALLED
6 ADA COMPLIANT GRAB BAR, CONTRACTOR SUPPLIED, CONTRACTOR INSTALLED
8 SHOWER CURTAIN ROD & HOOK NEARBY , CONTRACTOR SUPPLIED, CONTRACTOR INSTALLED
9 ADA SHOWER FOLDING SEAT, CONTRACTOR SUPPLIED, CONTRACTOR INSTALLED
14 TOILET PARTITION, CONTRACTOR SUPPLIED, CONTRACTOR INSTALLED
16 DRINKING FOUNTAIN WITH BOTTLE FILLER- REF. P-SERIES
18 MOP SINK- REF. P-SERIES
19 3-STATION WASH BASIN- REF. P-SERIES
20 2 STATION WASH BASIN- REF. P-SERIES
23 SHOWER TRENCH DRAIN
24 SWIMSUIT WATER EXTRACTOR, CONTRACTOR SUPPLIED, CONTRACTOR INSTALLED
25 NEW COUNTERTOP W/ BRACKET SUPPORTS
26 SINGLE-TIER PLASTIC LOCKER ON CONCRETE BENCH
27 DOUBLE-TIER PLASTIC LOCKER ON CONCRETE BENCH, FILLER AT THE END AND CORNER. FIELD VERIFY DISTANCE AND LOCATION
29 STEEL PAN STAIR W/ CONCRETE TREAD AND LANDING
30 CONT. STEEL PIPE RAILING, EXTEND 12" PAST TOP RISER AND BOTTOM AND TOP OF RAMP
31 STEEL HANDRAIL AND GUARDRAIL WITH VERTICAL BANISTERS. EXTEND HANDRAIL 12" PAST THE TOP RISER. 36" ABOVE THE FLOORS/NOSING OF A RISER
32 WALL-MOUNTED MARKERBOARD, 24'-0" X 4'-0"
33 2X2 ACCESS PANEL
34 PAINTED STEEL GUARDRAIL WHERE HEAD CLEARANCE IS BELOW 6'-8"
35 WALL-MOUNTED FOLDABLE BABY CHANGING STATION
36 CMU SOAPS AS NEEDED, TYP
37 SEMI-RECESS FIRE EXTINGUISHER AND CABINET
38 4" TACKBOARD



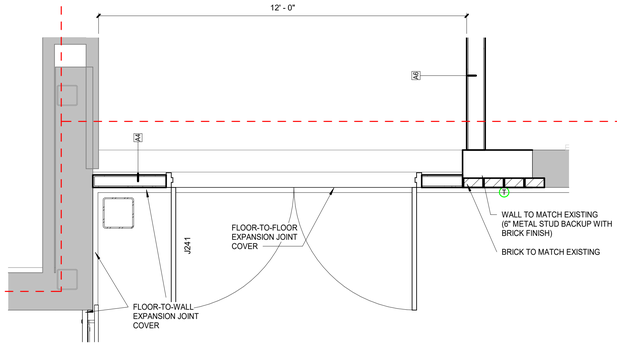
2 LOCKER ROOMS
SCALE: 1/4" = 1'-0"



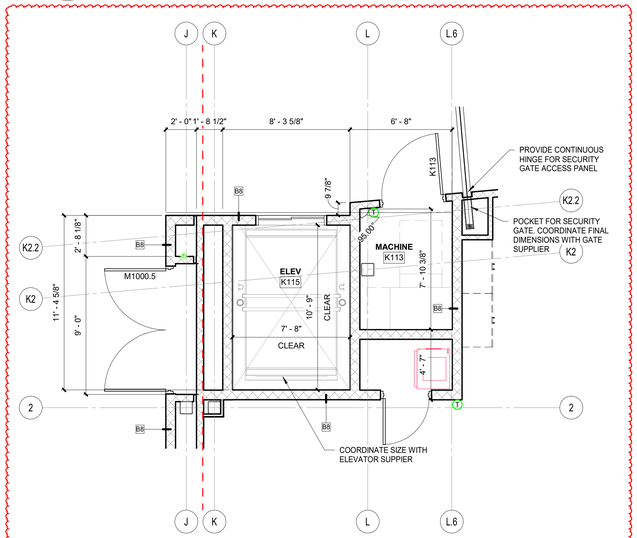
4 FIRST FLOOR DISPLAY WALL
SCALE: 1/2" = 1'-0"



5 ATRIUM NORTH WALL BUMP-OUTS
SCALE: 1/2" = 1'-0"



3 SECOND FLOOR EAST CONNECTOR
SCALE: 1/2" = 1'-0"



1 ENLARGED PLAN - ELEVATOR & MACHINE ROOM
SCALE: 1/4" = 1'-0"

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

JEFF L. CRIPPS REGISTERED NO 80003339 STATE OF INDIANA

REVISIONS:			
#	Date	Desc.	
2	09/06/202 3	ADDENDUM 02	

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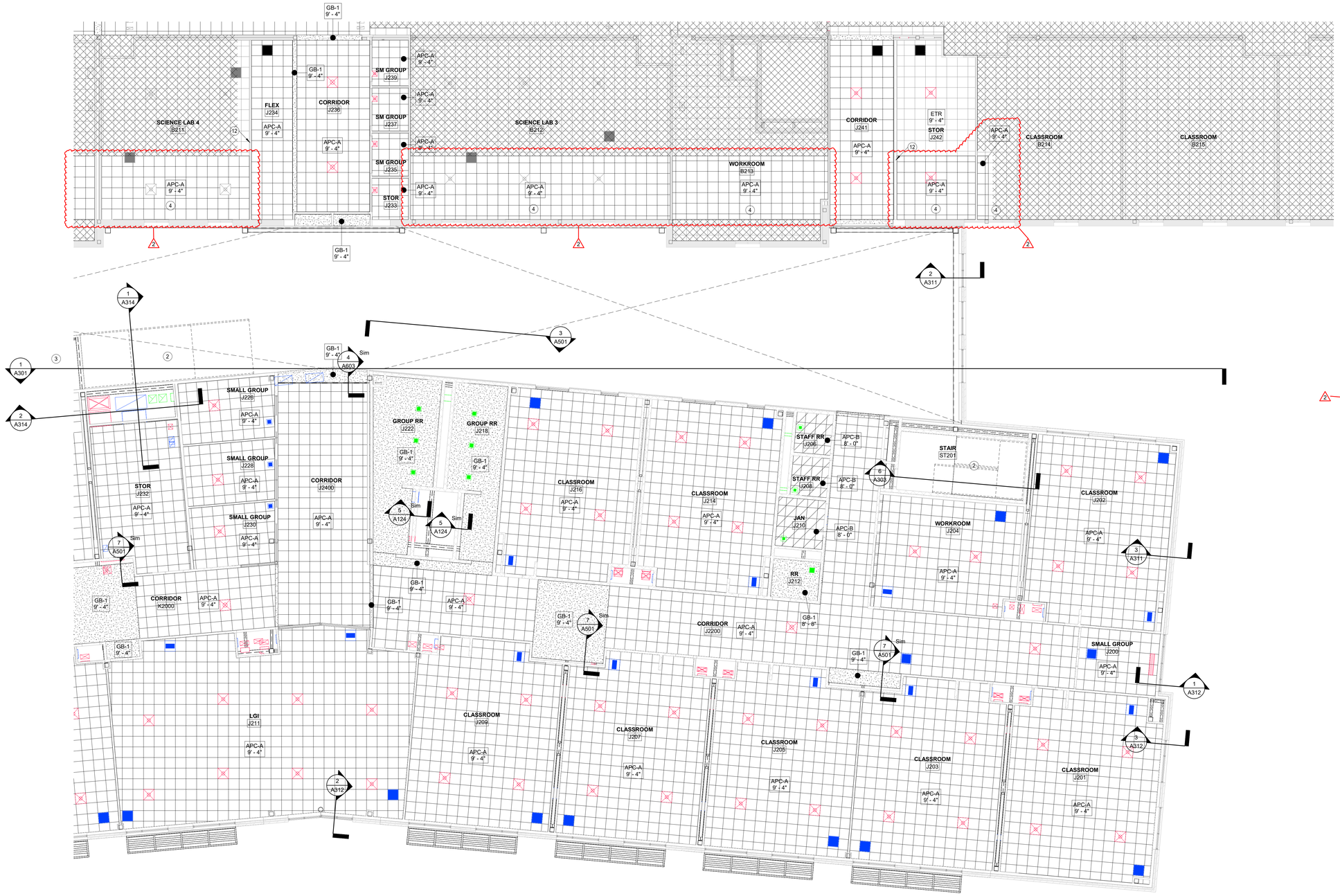
PROJECT:	#22130
DATE:	08-11-2023
DRAWN BY:	Author

ENLARGED PLANS

A112

PLOT DATE/TIME: 8/30/2023 4:48:06 PM



GENERAL NOTES

1. ALL INTERIOR CEILINGS AT 9'-4" UNLESS OTHERWISE NOTED.

1. OUTSIDE OF SCOPE OF WORK

TYPICAL CEILING TYPES

- 2x2 ACOUSTICAL CEILING TILE (SEE TAGS FOR TYPE)
- GYPSUM BOARD CEILING
- EIFS SOFFIT
- EXPOSED STRUCTURE, PAINT EXPOSED STRUCTURE ONLY IN CORRIDORS, ATRIUM, NATATORIUM, POOL MECHANICAL ROOMS, SCIENCE LABS

PLAN NOTES - RCP

1. FLAT METAL PANEL SOFFIT SIMILAR TO CITADEL SOFFIT PANELS. JOINTS PER RCP. MATCH WITH ELEVATION DRAWINGS
2. PAINT EXPOSED STEEL STAIR STRUCTURE
3. PAINT EXPOSED STRUCTURE, DECK, MEP, EQUIPMENT IN THIS ROOM
4. NEW CEILING AS NEEDED AFTER STRUCTURE REINFORCEMENT.
5. 2-HOUR FIRE RATED CEILING, MATCH UL #305
6. ADJUST EXISITNG CEILING AS NEEDED TO ACCOMMODATE NEW WORK
7. FABRIC-WRAPPED ACOUSTICAL PANELS, AWP-1 AND AWP-2. REFER TO FINISH LEGEND. 33% OF AWP-1 AND 67% OF AWP-2, 2'-0" TALL TYP. SUSPENDED FROM STRUCTURE ABOVE. PROVIDE UNISTRUTS AS NEEDED
8. ROOF HATCH WITH LADDER
9. HARD CEILING WITH G90 STUD BACKUP. USE PERMABASE CEMENT BOARD OR SIMILAR AS SHEATHING
10. EIFS SOFFIT, JOINTS PER RCP
11. EXPANSION JOINT COVER PLATE TYPICAL
12. PROVIDE NEW EDGE TRIM
13. PUT BACK CEILING AND LIGHTS AFTER MECHANICAL WORK IS COMPLETE. REPLACE ALL BROKEN TILES AND GRIDS.

2

1 REFLECTED CEILING PLAN - SECOND FLOOR
SCALE: 1/8" = 1'-0"

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

HENRY L. CRIPE
REGISTERED
NO. 880133
STATE OF
INDIANA

REVISIONS:

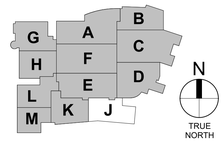
#	Date	Desc.
2	09/06/2022	ADDENDUM 02

100% CONSTRUCTION DOCUMENT

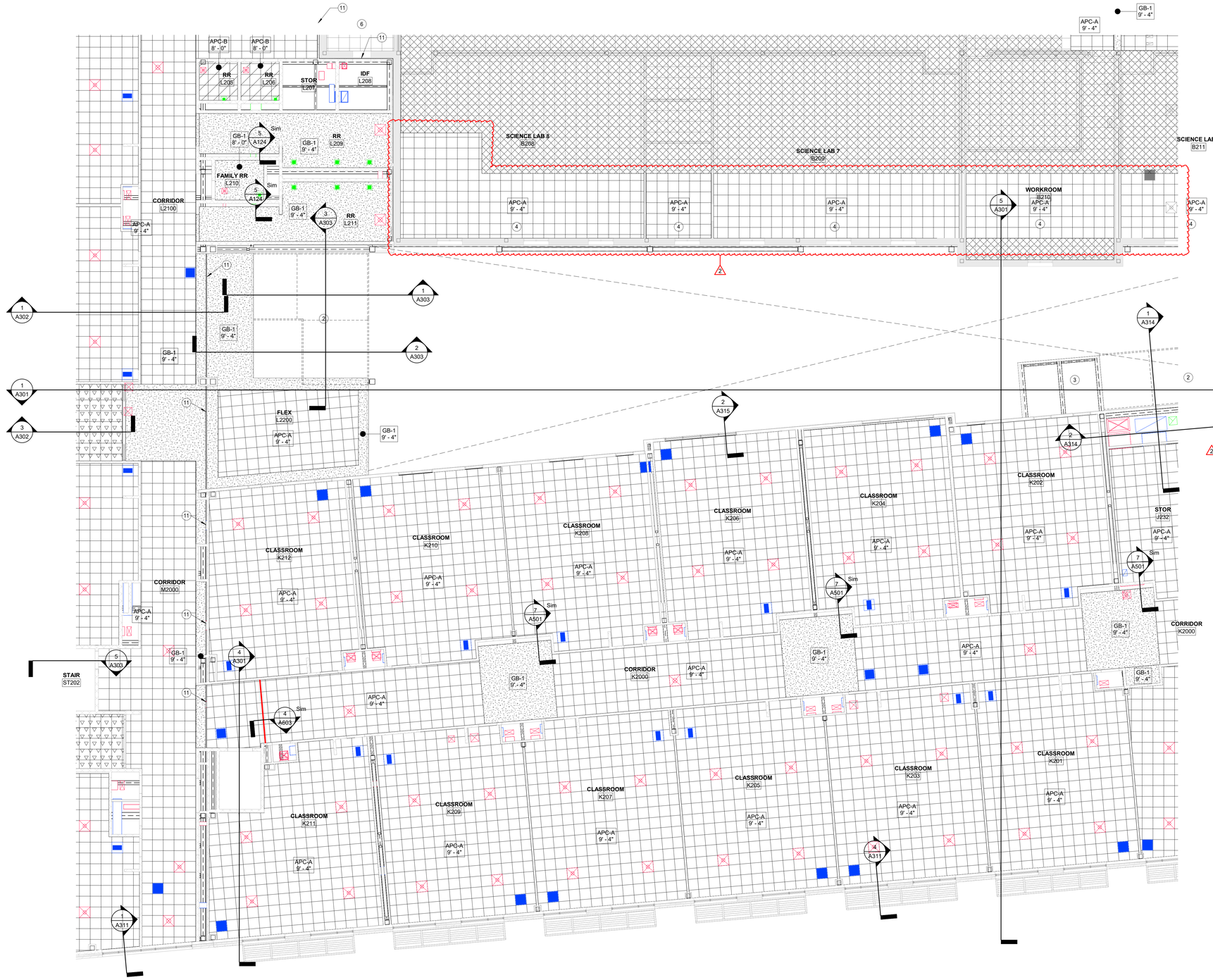
PROJECT:	#22130
DATE:	08-11-2023
DRAWN BY:	Author

REFLECTED CEILING PLAN - SECOND FLOOR - UNIT J

A122J



PLOT DATE/TIME:9/6/2023 8:10:17 PM



TYPICAL CEILING TYPES

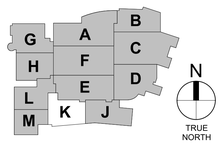
- 2x2 ACOUSTICAL CEILING TILE (SEE TAGS FOR TYPE)
- GYPSUM BOARD CEILING
- EIFS SOFFIT
- EXPOSED STRUCTURE, PAINT EXPOSED STRUCTURE ONLY IN CORRIDORS, ATRIUM, NATATORIUM, POOL MECHANICAL ROOMS, SCIENCE LABS

PLAN NOTES - RCP

1. FLAT METAL PANEL SOFFIT SIMILAR TO CITADEL SOFFIT PANELS. JOINTS PER RCP. MATCH WITH ELEVATION DRAWINGS
2. PAINT EXPOSED STEEL STAIR STRUCTURE
3. PAINT EXPOSED STRUCTURE, DECK, MEPT EQUIPMENT IN THIS ROOM
4. NEW CEILING AS NEEDED AFTER STRUCTURE REINFORCEMENT.
5. HEIGHT OF PATCHED CEILING MATCH EXISTING
6. ADJUST EXISITNG CEILING AS NEEDED TO ACCOMMODATE NEW WORK
7. FABRIC-WRAPPED ACOUSTICAL PANELS. AWP-1 AND AWP-2. REFER TO FINISH LEGEND. 33% OF AWP-1 AND 67% OF AWP-2. 2'-0" TALL TYP, SUSPENDED FROM STRUCTURE ABOVE. PROVIDE UNISTRUTS AS NEEDED
8. ROOF HATCH WITH LADDER
9. HARD CEILING WITH G90 STUD BACKUP. USE PERMABASE CEMENT BOARD OR SIMILAR AS SHEATHING
10. EIFS SOFFIT, JOINTS PER RCP
11. EXPANSION JOINT COVER PLATE TYPICAL
12. PROVIDE NEW EDGE TRIM
13. PUT BACK CEILING AND LIGHTS AFTER MECHANICAL WORK IS COMPLETE. REPLACE ALL BROKEN TILES AND GRIDS.

1 REFLECTED CEILING PLAN - SECOND FLOOR

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



LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

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PROJECT:	#22130
DATE:	08-11-2023
DRAWN BY:	Author

REFLECTED CEILING PLAN - SECOND FLOOR - UNIT K

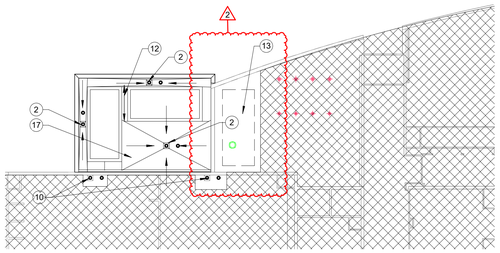
A122K

PLOT DATE/TIME 9/6/2023 9:10:43 PM

GENERAL NOTES

1. PROVIDE SPLASH BLOCKS WHERE DOWNSPOUTS OR EXTENDERS COME INTO CONTACT WITH ROOF SURFACE

2. PROVIDE 2X2 PROTECTIVE ROOF PADS OUTSIDE EVERY ROOF ACCESS POINT, ON TOP AND BOTTOM OF ROOF LADDERS, AROUND ALL ROOF MEP EQUIPMENT

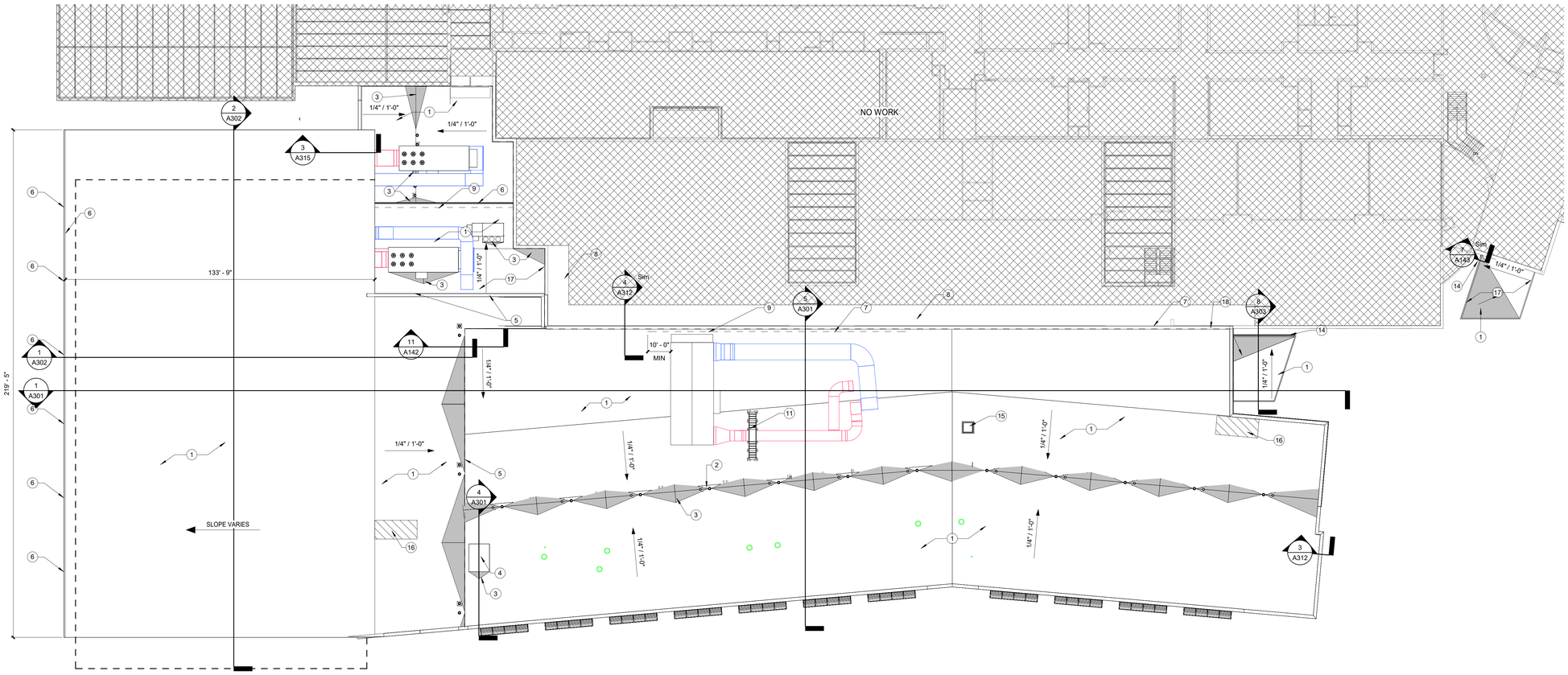


2 OVERALL ROOF PLAN MECH ROOM ADDITION

SCALE: 3/64" = 1'-0"

PLAN NOTES - ROOF PLAN

1 NEW PVC ROOF
2 ROOF DRAIN WITH OVERFLOW
3 BUILT-UP ROOF CRICKET TO DRAIN
4 ELEVATOR SHAFT POP-UP
5 EXPANSION JOINT
6 12" METAL GUTTER WITH DOWNSPOUTS
7 REFLASH EXISTING ROOF
8 RE-ROOF EXISTING BUILDING AFTER ROOF DECK REINFORCEMENT
9 PROVIDE FALL PROTECTION SYSTEM PER OSHA STANDARDS
10 NEW ROOF DRAIN WITH OVERFLOW IN THE EXISTING ROOF. REMOVE EXISTING SCUPPER. RE-ROOF AND REFLASH AS NEEDED
11 WALKOVER. SEE MEP FOR DETAIL
12 BREAK METAL TRIM SLOPED TO DRAIN
13 DEMO EXISTING ROOFTOP LOUVERS. PATCH, CLEAN, AND NEW ROOF SLOPE TO DRAIN
14 6" METAL DOWNSPOUT WITH SCUPPER
15 4'-0" X 4'-0" ROOF ACCESS HATCH WITH OSHA-RATED RAILINGS
16 16_BUILD UP ROOF WITH INSULATION OVER STAIR TOWER FLAT ROOF. SLOPE TO DRAIN
17 ROOF SLOPED TO DRAIN WITH INSULATION OVER FLAT STRUCTURE
18 ROOF EXPANSION JOINT



1 OVERALL ROOF PLAN

SCALE: 3/64" = 1'-0"

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

JERRY L. CRITES
REGISTERED
No. 8800139
STATE OF
INDIANA

REVISIONS:

#	Date	Desc.
2	09/06/2023	ADDENDUM 02

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PROJECT:	#22130
DATE:	08-11-2023
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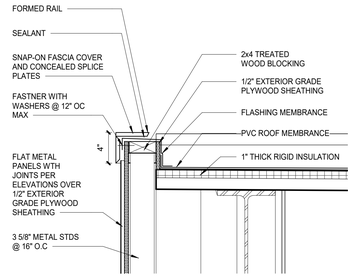
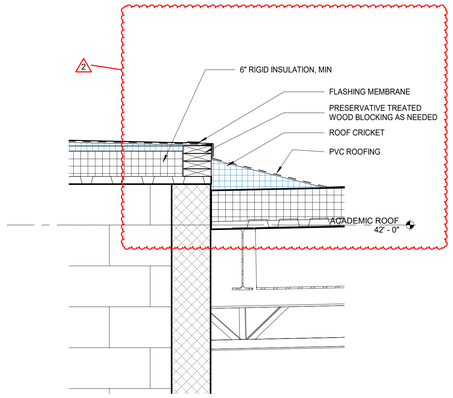
ROOF PLAN

A141

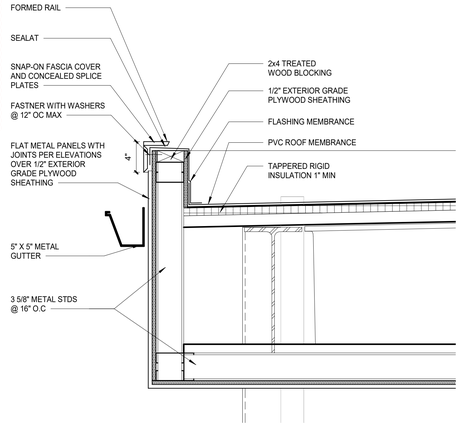
PLOT DATE/TIME:9/5/2023 3:55:01 PM



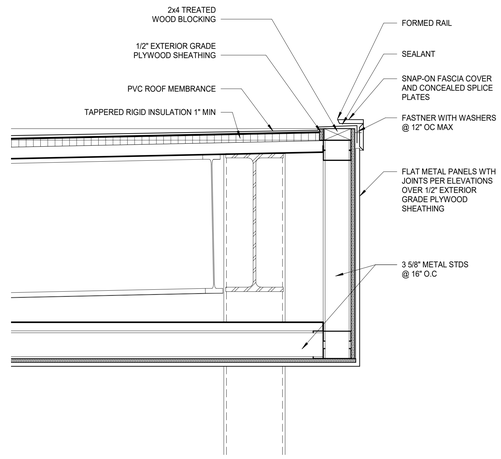
10 ATRIUM CANOPY DETAIL
SCALE: 1 1/2" = 1'-0"



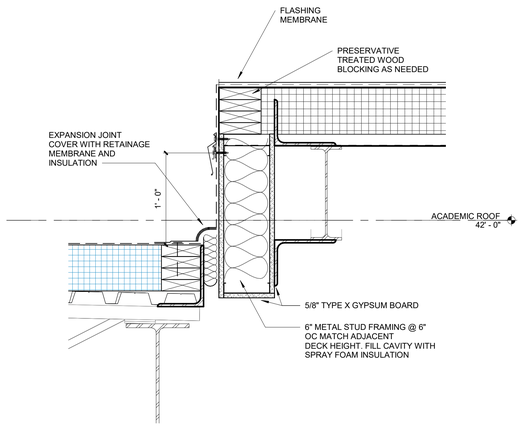
7 ROOF DETAIL @ ELEVATOR SHAFT
SCALE: 1" = 1'-0"



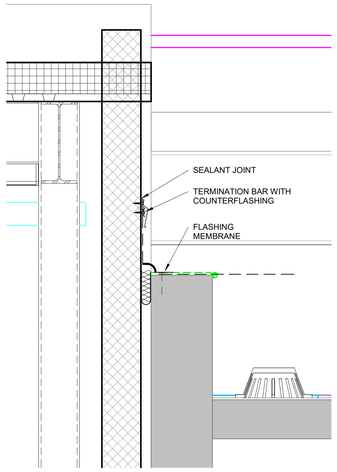
9 ATRIUM CANOPY DETAIL
SCALE: 1 1/2" = 1'-0"



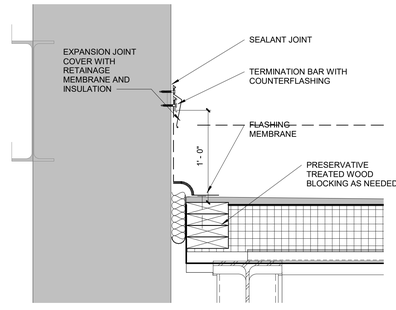
8 ATRIUM CANOPY DETAIL
SCALE: 1 1/2" = 1'-0"



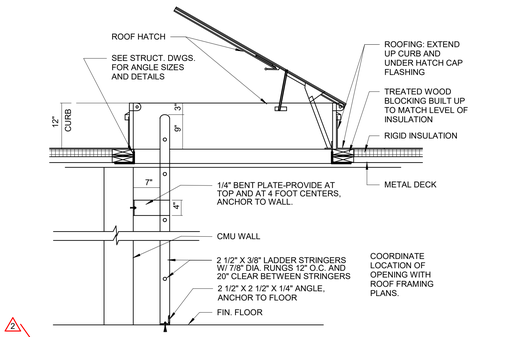
11 ROOF EXPANSION JOINT DETAILS
SCALE: 1 1/2" = 1'-0"



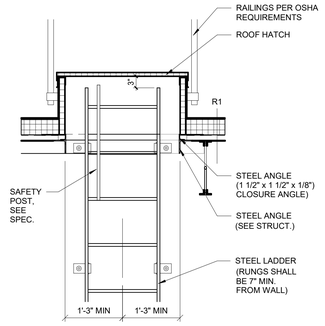
12 ROOF DETAIL @ EXISTING WALL
SCALE: 1" = 1'-0"



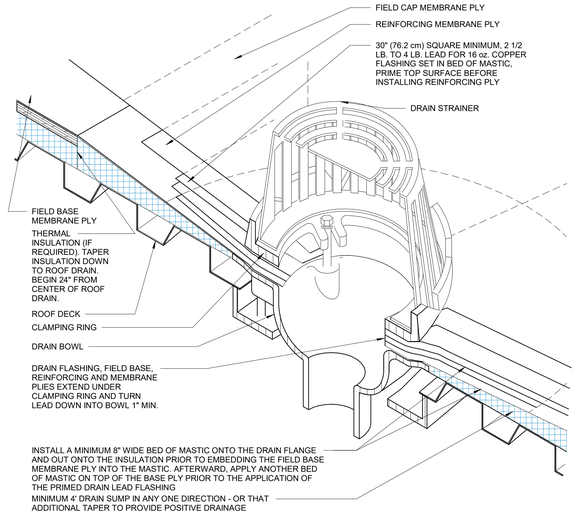
6 ROOF DETAIL @ EXISTING WALL
SCALE: 1 1/2" = 1'-0"



4 ROOF HATCH DETAIL
SCALE: 3/4" = 1'-0"



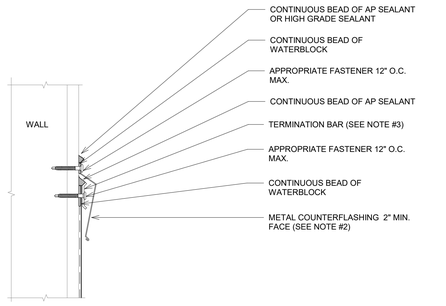
5 ROOF HATCH AND LADDER
SCALE: 3/4" = 1'-0"



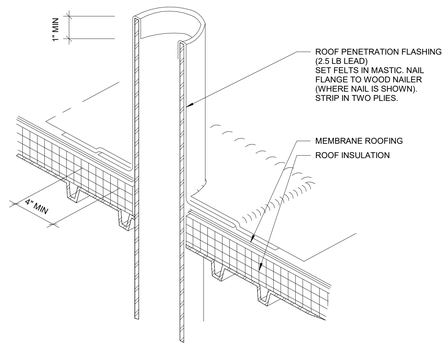
3 DRAIN DETAIL
SCALE: 3" = 1'-0"

NOTES:

1. REGULAR MAINTENANCE OF COUNTERFLASHING AND SEALANT REQUIRED. NOT INCLUDED AS PART OF WARRANTY.
2. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE.
3. INSTALL TERMINATION BAR WITH 1/4" GAP BETWEEN ADJOINING SECTIONS.
4. TERMINATION BAR MUST BE CUT AT INSIDE AND OUTSIDE CORNERS. **DO NOT BEND AROUND CORNERS**.
5. TERMINATION BAR MUST BE FASTENED WITHIN 1" MAX. OF ALL SECTIONS ENDS.
6. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT ROOF MANUFACTURER RECOMMENDATIONS.



2 TERMINATION BAR WITH COUNTERFLASHING
SCALE: 3" = 1'-0"



1 VENT FLASHING
SCALE: 1 : 1

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

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100% CONSTRUCTION DOCUMENT

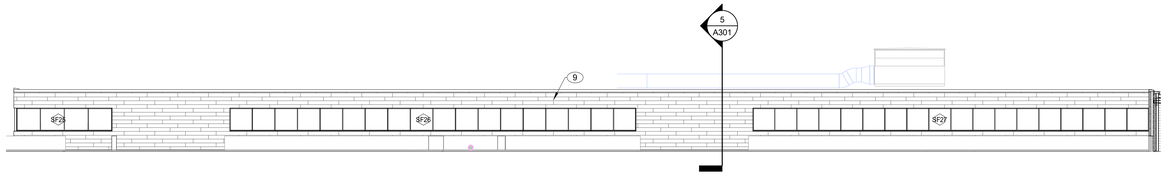
PROJECT: #22130
DATE: 08-11-2023
DRAWN BY: Author

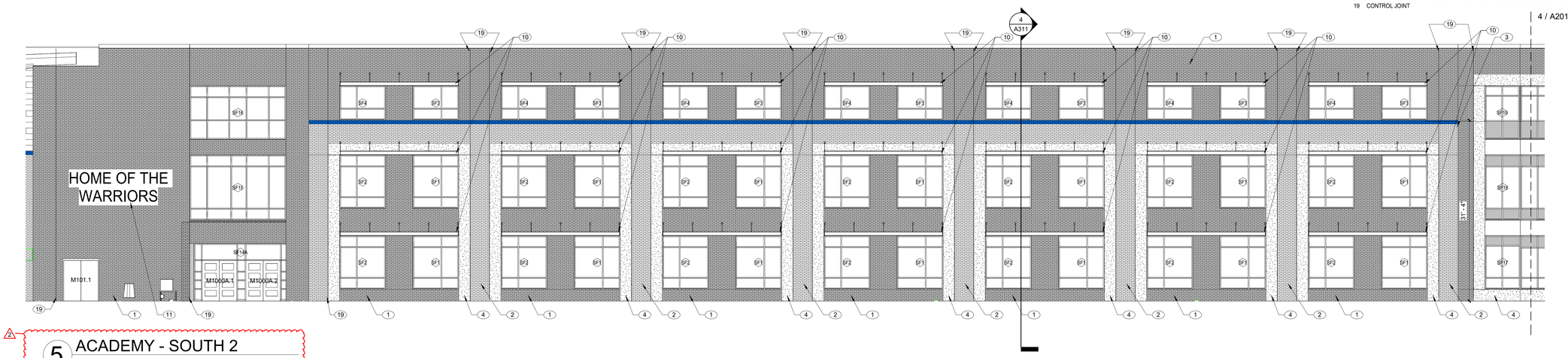
ROOF DETAILS

A142

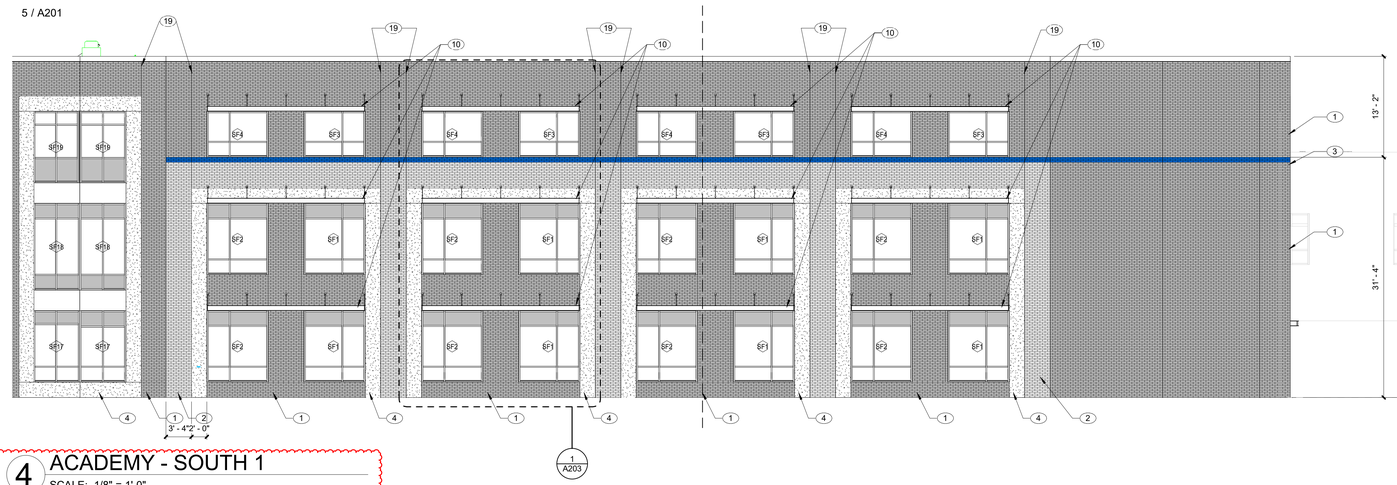
PLOT DATE/TIME:9/5/2023 4:48:56 PM

7 ACADEMY - NORTH
SCALE: 1/16" = 1'-0"

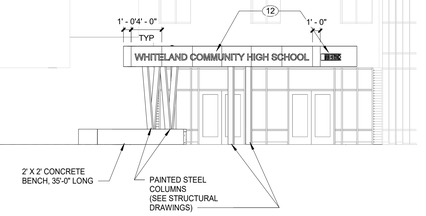


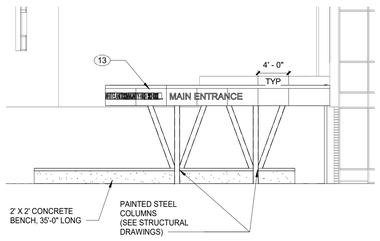


5 ACADEMY - SOUTH 2
SCALE: 1/8" = 1'-0"

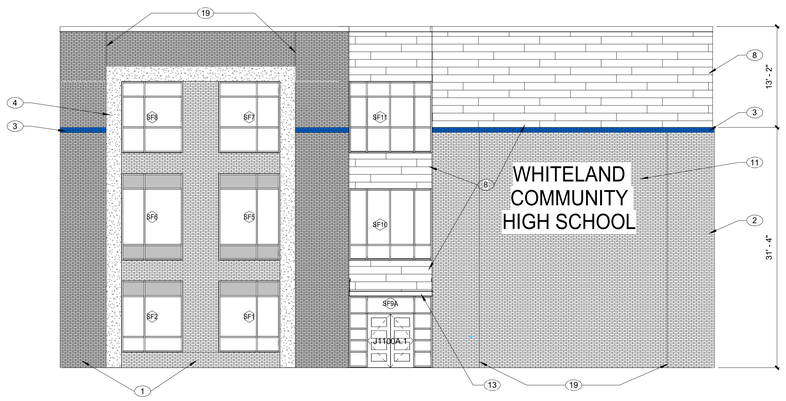


4 ACADEMY - SOUTH 1
SCALE: 1/8" = 1'-0"

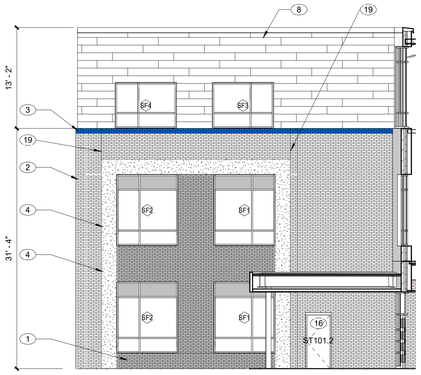




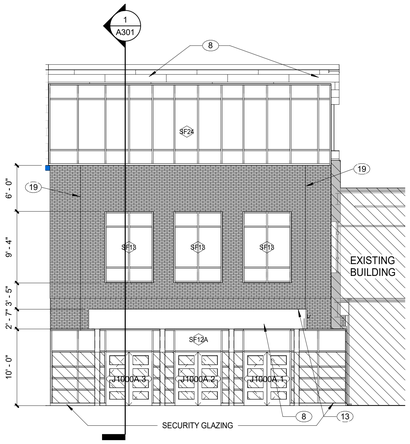
6 ENTRANCE - EAST
SCALE: 1/8" = 1'-0"



3 ACADEMY - EAST
SCALE: 1/8" = 1'-0"



2 ACADEMY - NORTH
SCALE: 1/8" = 1'-0"



1 ATRIUM ENTRANCE - EAST
SCALE: 1/8" = 1'-0"

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

TERRY L. CRIPE REGISTERED NO. 880033 STATE OF INDIANA

REVISIONS:			
#	Date	Desc.	
2	09/06/2022	ADDENDUM 02	
3			

100% CONSTRUCTION DOCUMENT

PROJECT:	#22130
DATE:	08-11-2023
DRAWN BY:	Author

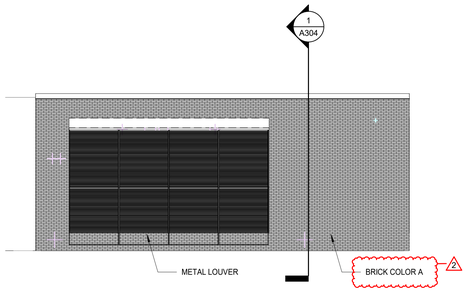
EXTERIOR ELEVATIONS

A201

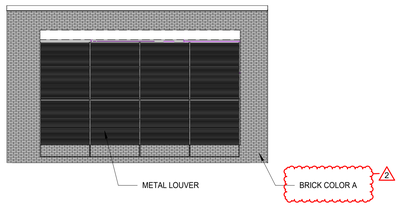
PLOT DATE/TIME:9/6/2023 3:29:28 PM

ELEVATION NOTES - EXTERIOR

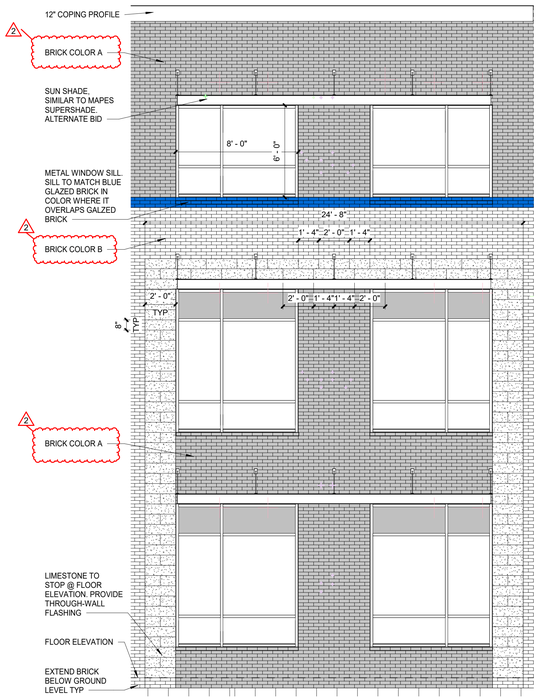
1 BRICK COLOR "A"
2 BRICK COLOR "B"
3 GLAZED BRICK BANDING, 3 COURSES HIGH
4 LIMESTONE VENEER. PROVIDE COLORED GROUT
6 FLAT METAL PANEL SYSTEM, SIMILAR TO CITADEL ENVELOPE 2000.
7 ALUMINUM STOREFRONT SIM TO KAWNEER 451 UT, SEE SCHEDULE FOR 4.5" VS 6" DEEP STOREFRONT
8 METAL SHEET PANELS, SIMILAR TO MBCI FW120, COLOR A. LENGTH 8'-0"LONG 1/3 STAGGER
9 METAL SHEET PANELS, SIMILAR TO MBCI DESIGNER SERIES FLUTED. LENGTH 8'-0"LONG 1/3 STAGGER
10 PRE-MANUFACTURED SUN SHADES, SIM TO MAPES SUPERSHADE, ALTERANTE BID
11 1'-6" ALUMINUM ILLUMINATED SIGNAGE, CONFIRM W/ OWNER THE EXACT LETTERS
12 1'-0" ALUMINUM ILLUMINATED SIGNAGE, CONFIRM W/ OWNER THE EXACT LETTERS
13 METAL CANOPY SIMILAR TO MAPES SUPERLUDESCKWITH FLAT SOFFIT
16 PAINTED HOLLOW METAL DOOR
17 FRP DOOR
18 8" METAL GUTTER WITH BOOT. PAINTED TO MATCH BRCIK AND METAL PANEL.
19 CONTROL JOINT



3 MECH RM EXPANSION - NORTH ELEVATION
SCALE: 1/8" = 1'-0"



2 MECH RM EXPANSION - WEST ELEVATION
SCALE: 1/8" = 1'-0"



1 TYPICAL WINDOW SURROUND
SCALE: 1/4" = 1'-0"

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

REVISIONS:

#	Date	Desc.
2	09/06/2022	ADDENDUM 02
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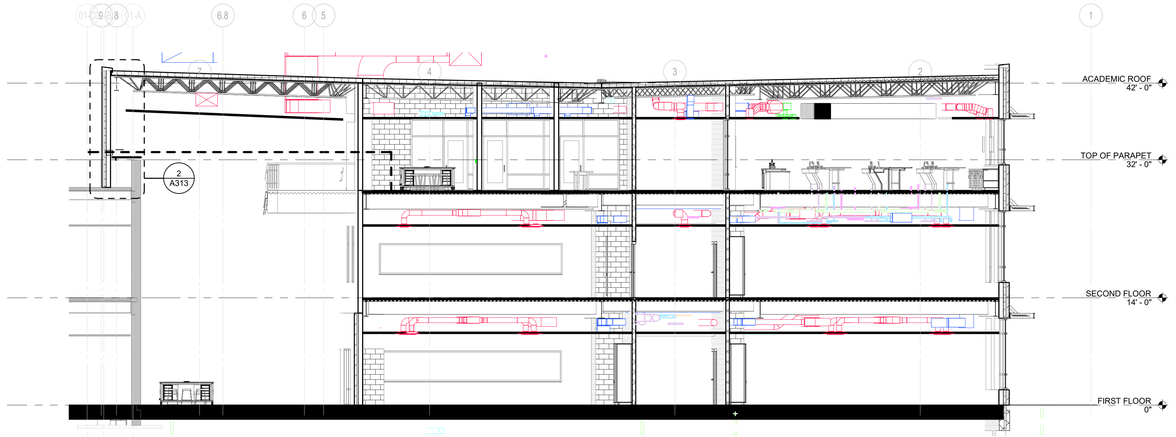
PROJECT:	#22130
DATE:	08-11-2023
DRAWN BY:	Author

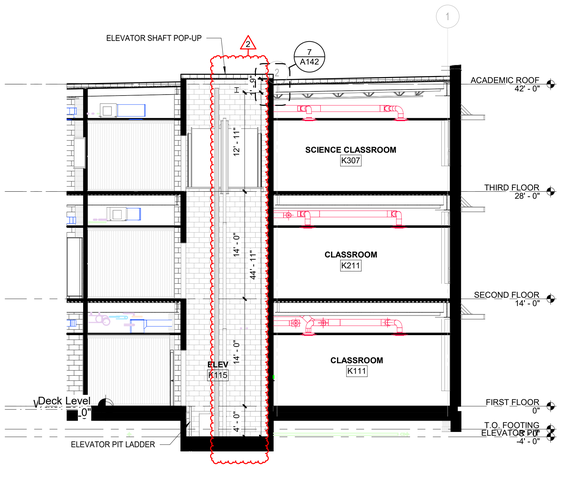
EXTERIOR ELEVATIONS

A203

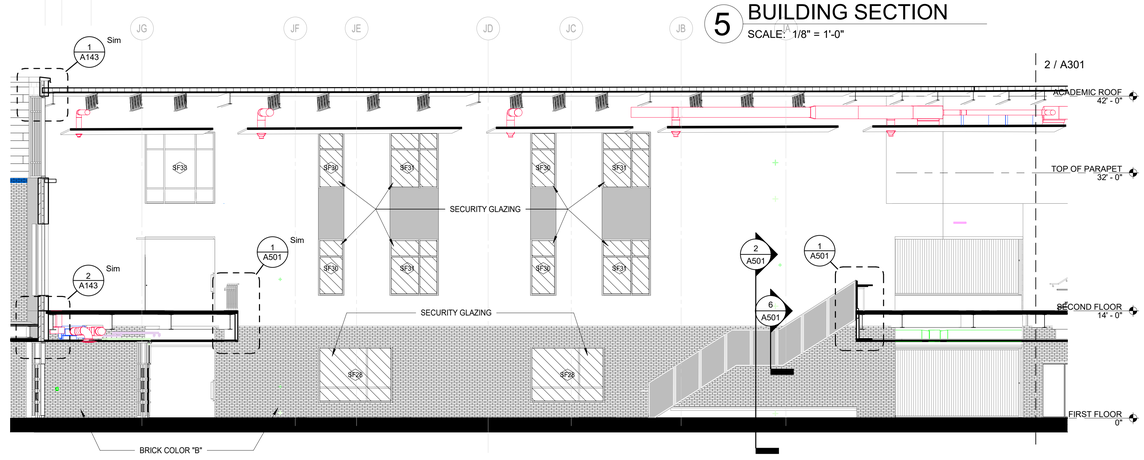
PLOT DATE/TIME: 8/9/2023 1:29:24 PM



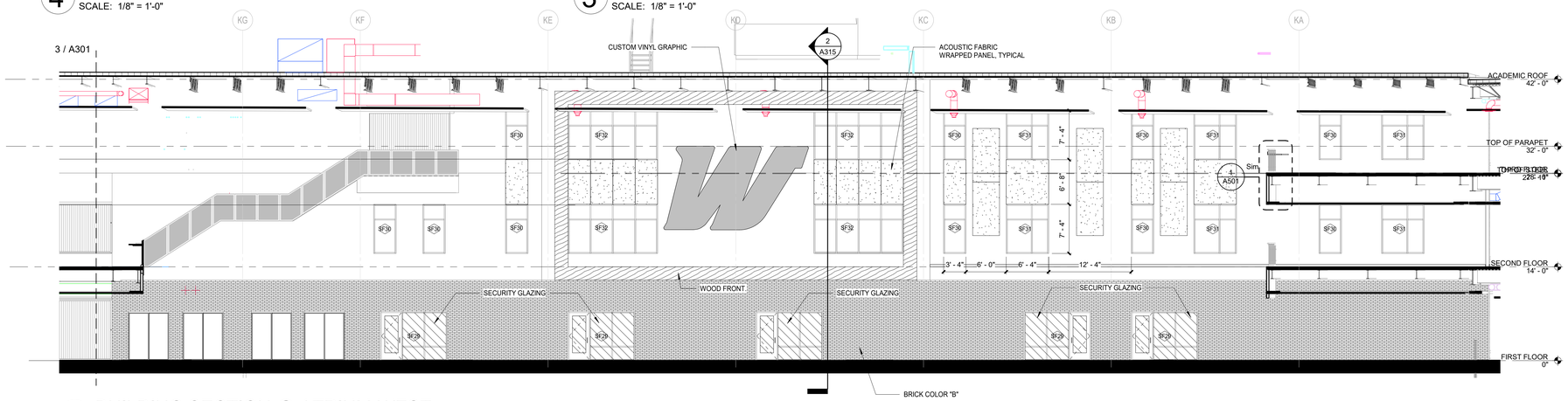
5 BUILDING SECTION
SCALE: 1/8" = 1'-0"



4 BUILDING SECTION @ ELEVATOR
SCALE: 1/8" = 1'-0"



3 BUILDING SECTION @ ATRIUM-EAST
SCALE: 1/8" = 1'-0"



2 BUILDING SECTION @ ATRIUM-WEST
SCALE: 1/8" = 1'-0"

1 EAST-WEST SECTION
SCALE: 1/16" = 1'-0"

PLOT DATE/TIME: 8/9/2023 4:48:59 PM

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

FRED L. CRIPPS
REGISTERED
No
80033
STATE OF
PROFESSIONAL ENGINEER

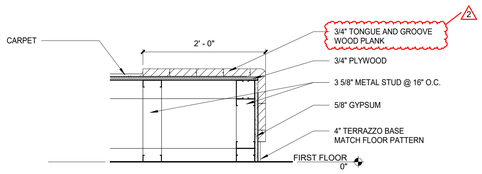
REVISIONS:			
#	Date	Desc.	
2	09/06/202	ADDENDUM 02	
3			

100% CONSTRUCTION DOCUMENT

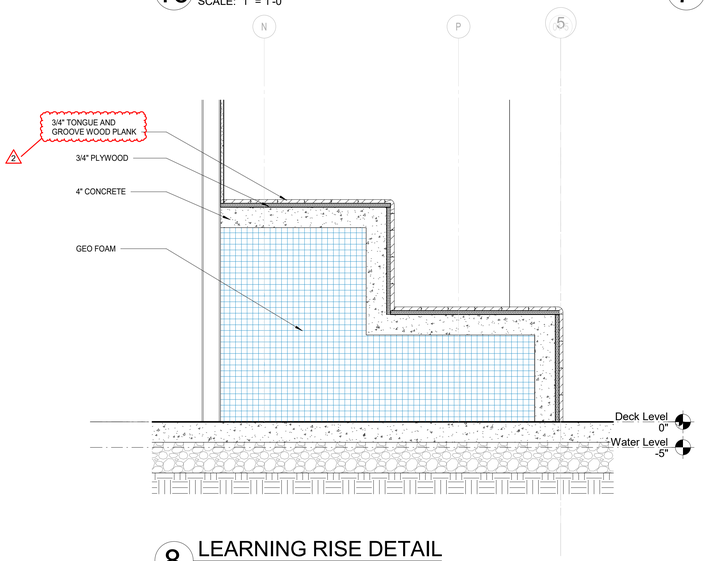
PROJECT:	#22130
DATE:	08-11-2023
DRAWN BY:	Author

BUILDING SECTIONS

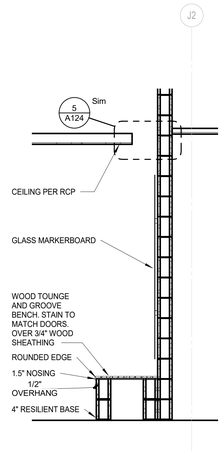
A301

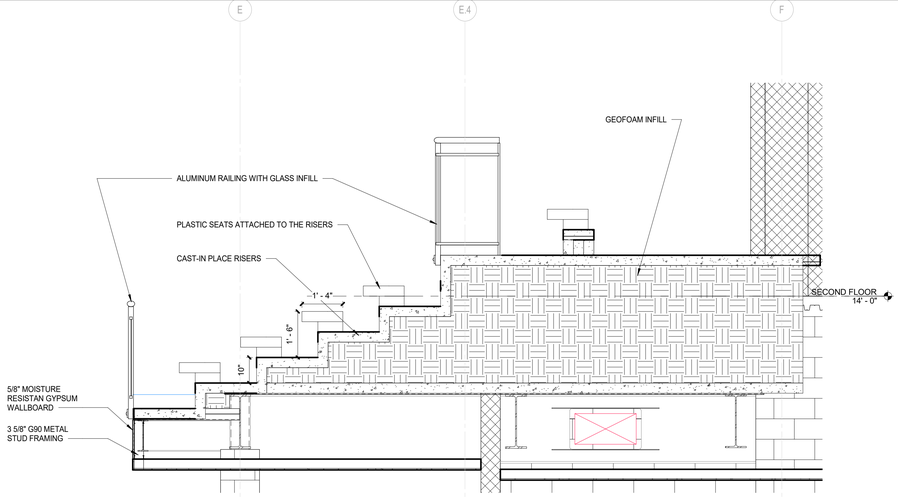


10 UNDER STAIR SEATING DETAIL
SCALE: 1" = 1'-0"

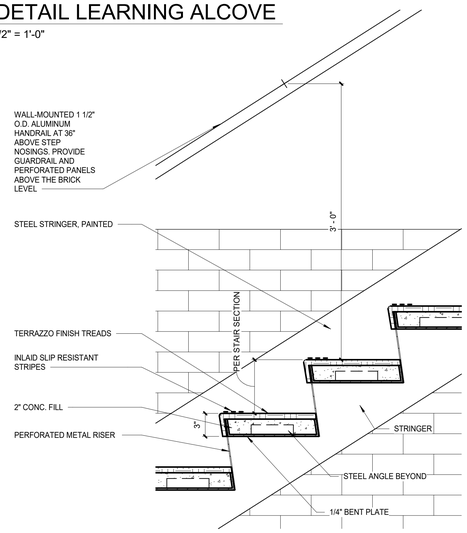


8 LEARNING RISE DETAIL
SCALE: 1" = 1'-0"



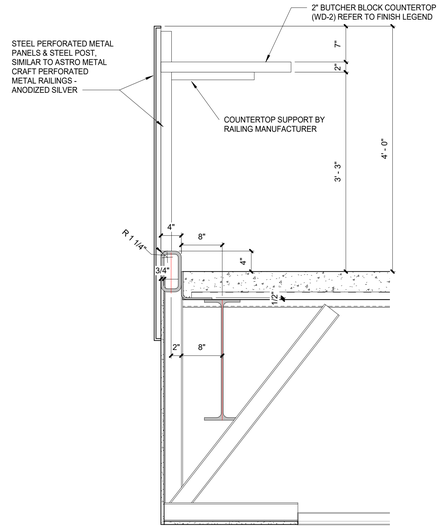


7 TYP DETAIL LEARNING ALCOVE
SCALE: 1/2" = 1'-0"

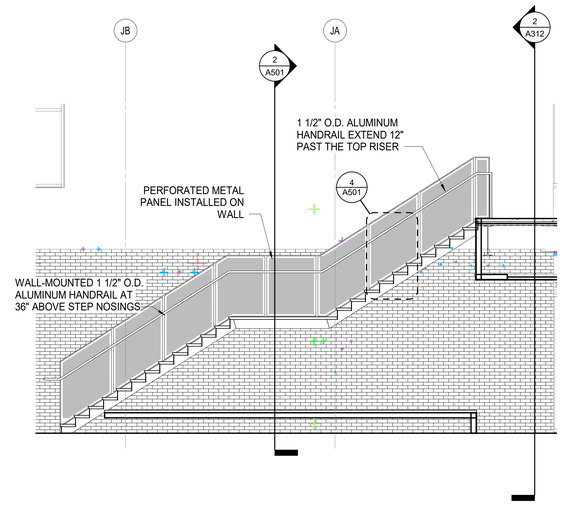


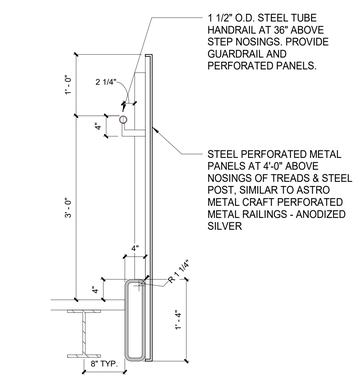
4 DETAIL
SCALE: 1 1/2" = 1'-0"

5 POOL SEATING
SCALE: 1/2" = 1'-0"

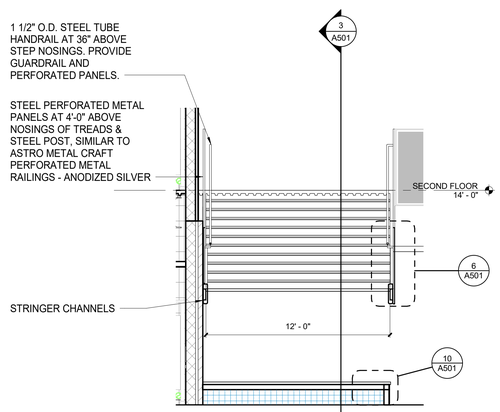


1 DETAIL
SCALE: 1" = 1'-0"





6 DETAIL
SCALE: 1" = 1'-0"



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

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

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

JERRY L. CRIPPEN REGISTERED No 8800339 STATE OF INDIANA

REVISIONS:		
#	Date	Desc.
2	09/06/2023	ADDENDUM 02

100% CONSTRUCTION DOCUMENT

PROJECT:	#22130
DATE:	08-11-2023
DRAWN BY:	Author

DETAILS

A501

PLOT DATE/TIME: 9/6/2023 2:39:42 PM

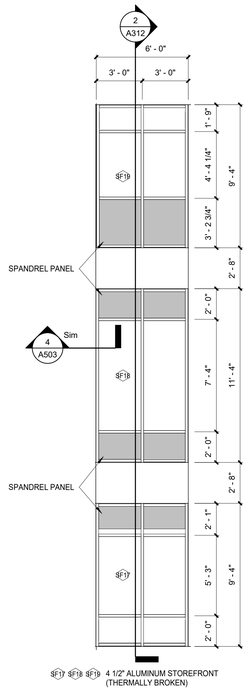
GENERAL NOTES: WINDOW SCHEDULE

1. FIELD VERIFY ALL DIMENSIONS

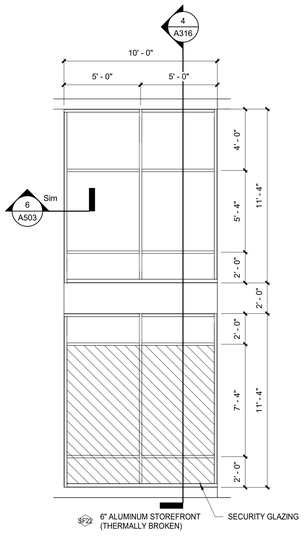
2. STOREFRONTS 0'0"-10'0" IN HEIGHT TO BE 4.5" STOREFRONTS. STOREFRONTS 10'0"-12'0" IN HEIGHT TO BE 6" STOREFRONTS

SECURITY GLAZING

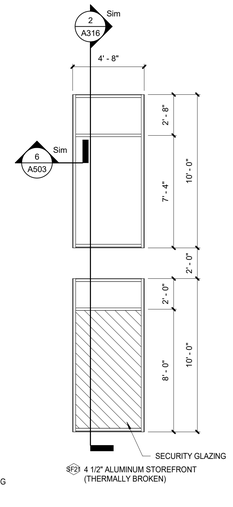
SPANDREL PANEL



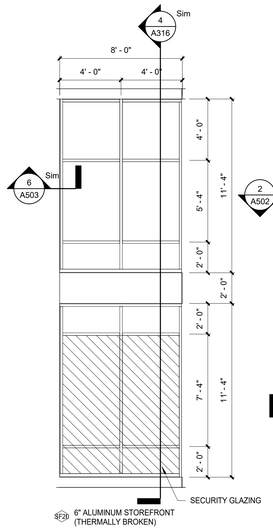
24 SF17 , SF18, SF19
SCALE: 1/4" = 1'-0"



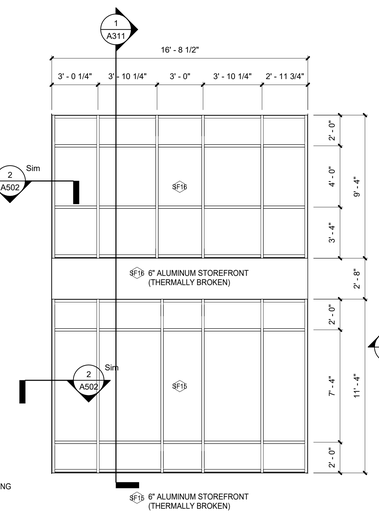
23 STOREFRONT SF22
SCALE: 1/4" = 1'-0"



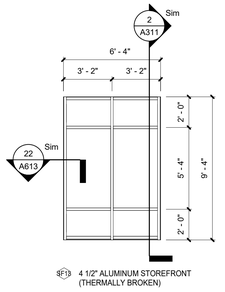
22 STOREFRONT SF21
SCALE: 1/4" = 1'-0"



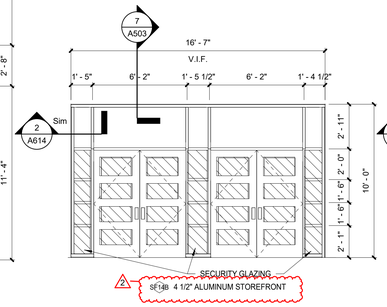
21 STOREFRONT SF20
SCALE: 1/4" = 1'-0"



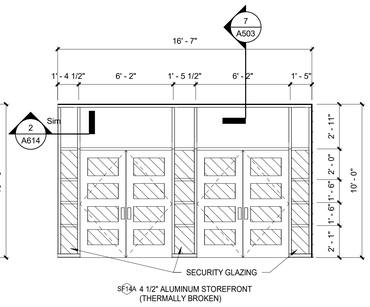
20 STOREFRONT SF15 & 16
SCALE: 1/4" = 1'-0"



19 STOREFRONT SF13
SCALE: 1/4" = 1'-0"



18 STOREFRONT SF14B
SCALE: 1/4" = 1'-0"



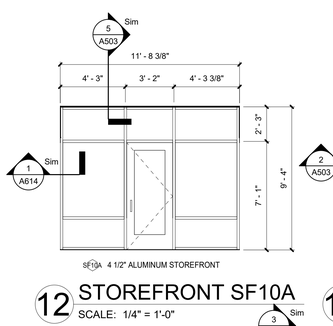
17 STOREFRONT SF14A
SCALE: 1/4" = 1'-0"

16 STOREFRONT SF12B
SCALE: 1/4" = 1'-0"

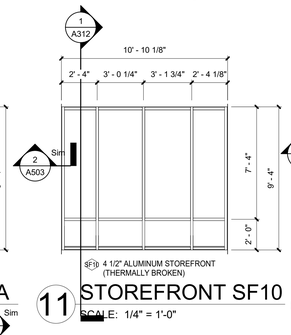
15 STOREFRONT SF12A
SCALE: 1/4" = 1'-0"

14 STOREFRONT SF11A
SCALE: 1/4" = 1'-0"

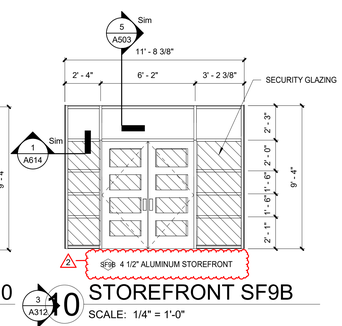
13 STOREFRONT SF11
SCALE: 1/4" = 1'-0"



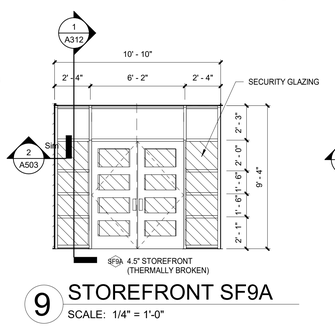
12 STOREFRONT SF10A
SCALE: 1/4" = 1'-0"



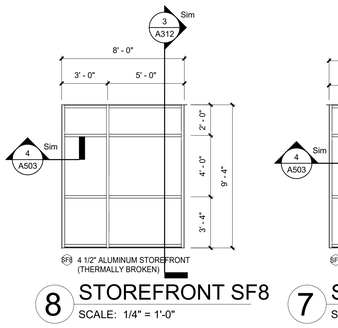
11 STOREFRONT SF10
SCALE: 1/4" = 1'-0"



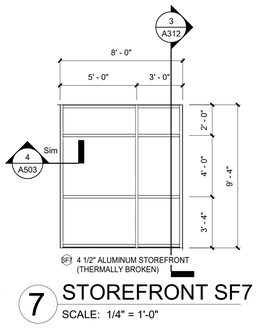
10 STOREFRONT SF9B
SCALE: 1/4" = 1'-0"



9 STOREFRONT SF9A
SCALE: 1/4" = 1'-0"



8 STOREFRONT SF8
SCALE: 1/4" = 1'-0"



7 STOREFRONT SF7
SCALE: 1/4" = 1'-0"

6 STOREFRONT SF6
SCALE: 1/4" = 1'-0"

5 STOREFRONT SF5
SCALE: 1/4" = 1'-0"

4 STOREFRONT SF4
SCALE: 1/4" = 1'-0"

3 STOREFRONT SF3
SCALE: 1/4" = 1'-0"

2 STOREFRONT SF2
SCALE: 1/4" = 1'-0"

1 STOREFRONT SF1
SCALE: 1/4" = 1'-0"

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
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300 E MAIN ST, WHITELAND, IN 46184

REVISIONS: #	Date	Desc.
1	08/30/202	ADDENDUM 01
2	09/06/202	ADDENDUM 02
3		

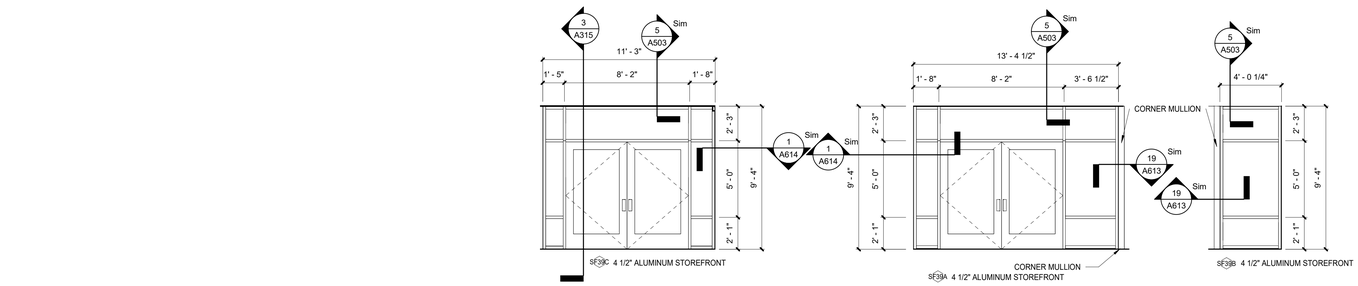
100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 08-11-2023
DRAWN BY: Author

WINDOW SCHEDULE

A611

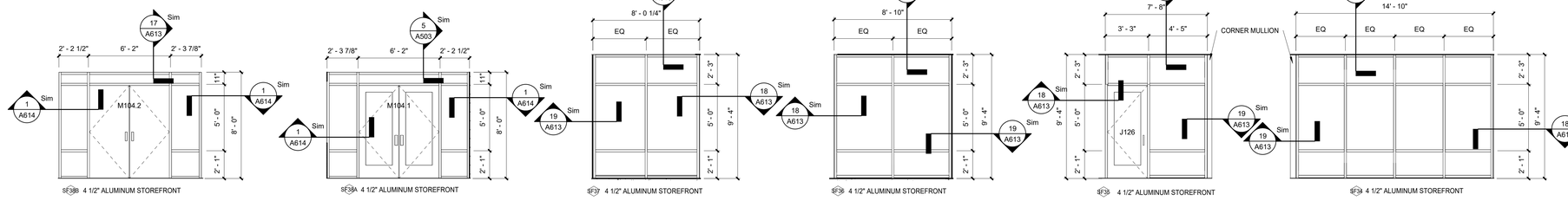
PLOT DATE/TIME:9/6/2023 1:24:39 PM



21 STOREFRONT SF39C
SCALE: 1/4" = 1'-0"

19 STOREFRONT SF39A
SCALE: 1/4" = 1'-0"

20 STOREFRONT SF39B
SCALE: 1/4" = 1'-0"



18 STOREFRONT SF38B
SCALE: 1/4" = 1'-0"

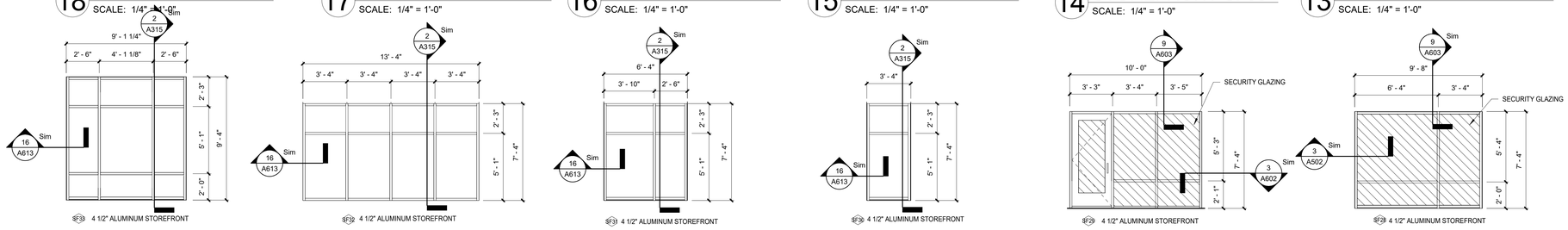
17 STOREFRONT SF38A
SCALE: 1/4" = 1'-0"

16 STOREFRONT SF37
SCALE: 1/4" = 1'-0"

15 STOREFRONT SF36
SCALE: 1/4" = 1'-0"

14 STOREFRONT SF35
SCALE: 1/4" = 1'-0"

13 STOREFRONT SF34
SCALE: 1/4" = 1'-0"



12 STOREFRONT SF33
SCALE: 1/4" = 1'-0"

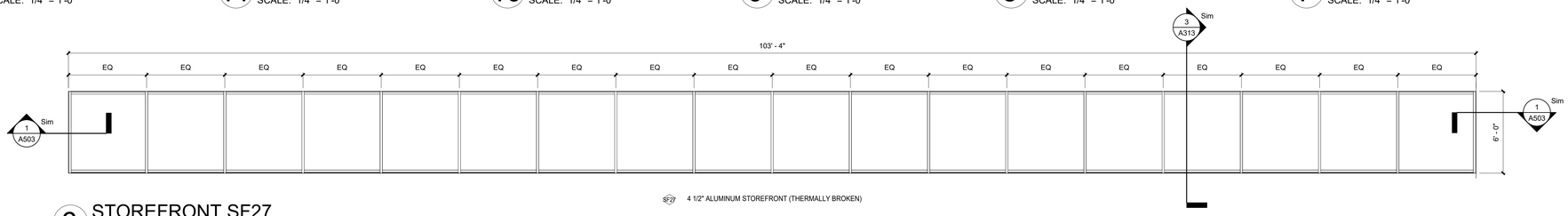
11 STOREFRONT SF32
SCALE: 1/4" = 1'-0"

10 STOREFRONT SF31
SCALE: 1/4" = 1'-0"

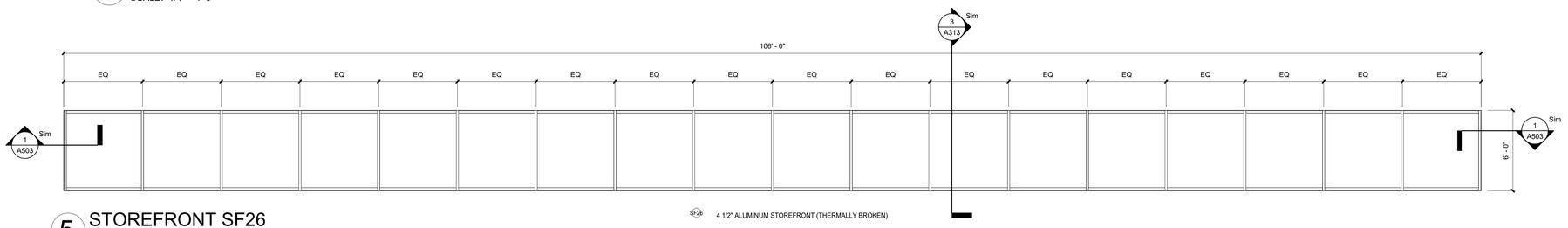
9 STOREFRONT SF30
SCALE: 1/4" = 1'-0"

8 STOREFRONT SF29
SCALE: 1/4" = 1'-0"

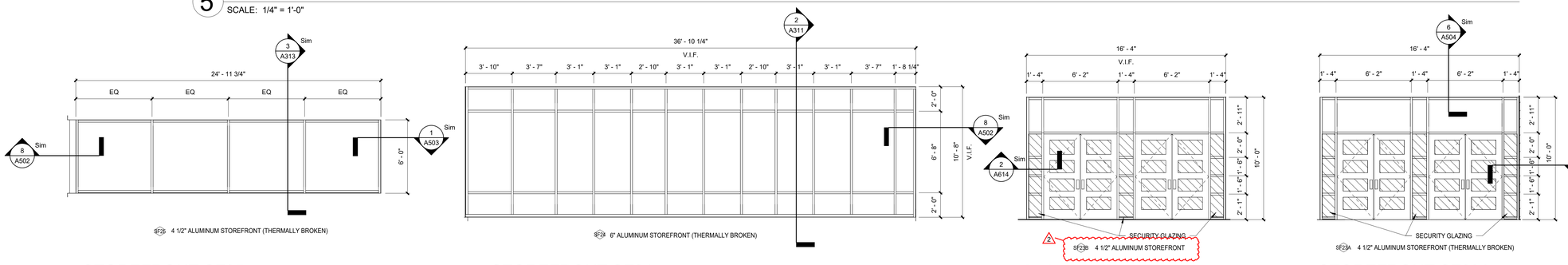
7 STOREFRONT SF28
SCALE: 1/4" = 1'-0"



6 STOREFRONT SF27
SCALE: 1/4" = 1'-0"



5 STOREFRONT SF26
SCALE: 1/4" = 1'-0"



4 STOREFRONT SF25
SCALE: 1/4" = 1'-0"

3 STOREFRONT SF24
SCALE: 1/4" = 1'-0"

2 STOREFRONT SF23B
SCALE: 1/4" = 1'-0"

1 STOREFRONT SF23A
SCALE: 1/4" = 1'-0"

GENERAL NOTES: WINDOW SCHEDULE

1. FIELD VERIFY ALL DIMENSIONS
2. STOREFRONTS 0'0"-10'0" IN HEIGHT TO BE 4.5" STOREFRONTS. STOREFRONTS 10'0"-12'0" IN HEIGHT TO BE 6" STOREFRONTS

SECURITY GLAZING

SPANDREL PANEL

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

TERRY L. CRIPE REGISTERED No. 880133 STATE OF INDIANA

REVISIONS:

#	Date	Desc.
2	09/06/2023	ADDENDUM 02

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 08-11-2023
DRAWN BY: Author

WINDOW SCHEDULE

A612

PLOT DATE/TIME:9/6/2023 1:26:58 PM

GENERAL FINISH PLAN NOTES

A. PRIOR TO INSTALLATION OF NEW FINISHES CONTRACTOR SHALL INSPECT ALL SUBSTRATES. IF A SUBSTRATE IS DEEMED UNACCEPTABLE, THE CONTRACTOR SHALL REPAIR AS NECESSARY FOR SUBSTRATE TO ACCEPT NEW MATERIALS.

B. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND REPAIR ALL EXISTING WALLS, SLAB, AND CEILINGS TO A CONDITION SUITABLE FOR ACCEPTING NEW FINISHES AS PER MANUFACTURER'S RECOMMENDED INSTALLATION METHODS. MINIMUM LEVEL 4 FINISH ON EXISTING AND NEW WALLS, UNLESS NOTED OTHERWISE.

C. ALL FLOORING TRANSITIONS TO COMPLY WITH ADA GUIDELINES AND TO OCCUR UNDER CENTOR OF DOORWAYS, AND OR AT CENTERLINE OF WALL. UNLESS INDICATED DIFFERENTLY ON FINISH PLANS.

D. CONTRACTOR TO PROVIDE PROTECTION AS NEEDED DURING CONSTRUCTION, IF ANY TO PRESERVE NEW FINISHES WHILE COMPLETING CONSTRUCTION.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFACTION OF DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS INDICATED ON THE FINISH PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND DESIGNERS.

F. ALL DIMENSIONS SHOWN ARE TO FACE OF FINISH MATERIAL, UNLESS INDICATED OTHERWISE ON PLANS.

G. WHERE WALLS ARE INDICATED TO RECEIVE PAINT FINISH, PAINT ALL PRIMED GRILLES, FIRE EXTINGUISHER CABINERS, AND OTHER ITEMS EMBEDDED IN WALL CONSTRUCTION TO MATCH SURFACE ON WHICH THEY OCCUR UNLESS NOTED OTHERWISE.

H. CONTRACTOR TO PROVIDE DRYWALL REVEAL JOINT WHERE DRYWALL MEETS DISSIMILAR MATERIALS.

I. CONTRACTOR TO PROVIDE SCHLUTER EDGE WHERE TILE MEETS DISSIMILAR MATERIALS. REFER TO FINISH MATERIAL LEGEND AND INTERIOR ELEVATIONS FOR FURTHER DETAILS.

J. DO NOT INSTALL GYPSUM BOARD BEHIND TILE BACKER BOARD LOCATIONS.

K. IF ONLY PAINT IS INDICATED AS THE FINISH, REFER TO ARCHITECTURAL FLOOR PLANS FOR SUBSTRATE INFORMATION.

L. ALL TERRAZZO EDGES ARE TO BE SANDED AND FINISHED TO WHERE TERRAZZO MEETS DISSIMILAR FLOORING.

M. REFER TO INTERIOR TRANSITION DETAILS SHEET A731 FOR TRANSITION STRIP PRODUCT DETAILS.

N. ALL MECHANICAL CLOSETS TO HAVE A SEALED CONCRETE FLOOR FINISH. PROVIDE RESILIENT REDUCER TO MATCH RB-1 UNDER CENTER OF DOORWAY.

O. ALL WALLS AND CEILINGS TO BE PAINTED PT-1, UNLESS NOTED OTHERWISE.

P. METAL DIVIDER STRIPS TO BE PROVIDED AT EACH TERRAZZO COLOR CHANGE. DESIGNER TO APPROVE COLOR.

Q. ALL WINDOWS TO RECEIVE SOLID SURFACE SILL, SS-3.

R. ALL HM DOOR FRAMES ARE TO BE PAINTED PT-6 UNLESS NOTED OTHERWISE.

S. REFERENCE ELEVATIONS FOR CUSTOM WALL GRAPHICS.

T. WHERE FLOORING PATTERN GRAIN CHANGES AT CORRIDORS, INSTALLER MUST HAVE A DESIGNER PRESENT FOR REVIEW MEETING PRIOR TO INSTALLATION OF ANY FLOORING.

U. ALL GYPSUM BOARD CEILING AND BULKHEADS TO BE PAINTED PT-1, UNLESS NOTED OTHERWISE.

V. ALL EXPOSED STEEL COLUMNS THAT ARE IN ATRIUM J1000 AND K1000 TO BE PAINTED PT-1. ALL OTHERS TO MATCH ADJACENT WALL COLOR.

FINISH LEGEND

FLOOR COVERING

CARPET TILE

CPT-1: MFG: INTERFACE
TYPE: 25CM X 1M CARPET PLANK
PATTERN: STREAMING COLLECTION - BITRATE
COLOR: 108305 DARK BLUE
INSTALL: ASHLAR, REF. PLAN FOR DIRECTION
LOCATION: CLASSROOMS
CONTACT: JAE PARK 317-459-8762

CPT-2: MFG: INTERFACE
TYPE: 25CM X 1M CARPET PLANK
PATTERN: NIGHT LIGHTS COLLECTION - LUMINESCENT
COLOR: IRON AZURE
INSTALL: 90% ASHLAR, REF. PLAN FOR DIRECTION
LOCATION: FLEX SPACE
CONTACT: JAE PARK 317-459-8762

CPT-3: MFG: INTERFACE
TYPE: 25CM X 1CM CARPET PLANK
PATTERN: NIGHT LIGHTS COLLECTION - LUMINESCENT
COLOR: NICKEL PERSIMMON
INSTALL: 10% RANDOM ASHLAR, REF. PLAN FOR DIRECTION
LOCATION: FLEX SPACE
CONTACT: JAE PARK 317-459-8762

WOC-1: MFG: INTERFACE
TYPE: 50CM X 50CM WALK-OFF
PATTERN: STEP REPEAT SR799
COLOR: 104934 IRON
INSTALL: QUARTER-TURN
LOCATION: VESTIBULES
CONTACT: JAE PARK 317-459-8762

RESILIENT FLOOR

LVT-1: MFG: INTERFACE
TYPE: 25CM X 1CM LUXURY VINYL TILE
PATTERN: A007 STUDIO SET
COLOR: A00702 PEWTER
INSTALL: ASHLAR, REF. PLAN FOR DIRECTION
LOCATION: HALLWAYS
CONTACT: JAE PARK 317-459-8762

LVT-2: MFG: INTERFACE
TYPE: 25CM X 1CM LUXURY VINYL TILE
PATTERN: A007 STUDIO SET
COLOR: A00720 ROYAL BLUE
INSTALL: ASHLAR, REF. PLAN FOR DIRECTION
LOCATION: HALLWAYS, ALCOVES
CONTACT: JAE PARK 317-459-8762

EPX-1: MFG: SHERWIN WILLIAMS HIGH PERFORMANCE FLOORING
TYPE: RESUFLOR 1/4" DECO FLAKE BC EPOXY SYSTEM
COLOR: REBEL BLUE
INSTALL: MONOLITHIC, 4" INTEGRAL COVE BASE REF. SPECS
LOCATION: LOCKER ROOMS, RESTROOMS,
CONTACT: SCOTT KAISER 503-319-5209

EPX-2: MFG: SHERWIN WILLIAMS HIGH PERFORMANCE FLOORING
TYPE: RESUFLOR 1/8" DECO FLAKE BC EPOXY SYSTEM WITH CLEAR CHEMICAL RESISTANT TOPCOAT
COLOR: REBEL BLUE
INSTALL: MONOLITHIC, 4" INTEGRAL COVE BASE REF. SPECS
LOCATION: SCIENCE LABS
CONTACT: SCOTT KAISER 503-319-5209

EPX-3: MFG: SHERWIN WILLIAMS HIGH PERFORMANCE FLOORING
TYPE: FASTOP MULTI TOPFLOOR SL23
COLOR: DARK GRAY
INSTALL: MONOLITHIC, 4" INTEGRAL COVE BASE REF. SPECS
LOCATION: POOL MECHANICAL/CHEMICAL
CONTACT: SCOTT KAISER 503-319-5209

FLOOR COVERING (CONT.)

TERRAZZO

TER-1: MFG: SANTAROSSA TILE
TYPE: VITRIFIED EPOXY TERRAZZO
COLOR: GRAY BUTTON (MATRIX), 5% DARK BLUE GLASS #1, 5% DARK BLUE GLASS #0, 10% GEORGIA WHITE #0, 50% GEORGIA WHITE #1, 10% BEIGE BLEND #1, 20% CHINA WHITE #1, DESIGNER TO APPROVE
INSTALL: REF. SPECS. METAL TRANSITION STRIP TO BE USED AT ALL TRANSITIONS, REF. FINISH PLAN
LOCATION: ATRIUM, NATATORIUM CORRIDOR
CONTACT: ERIC SANTAROSSA 317-632-5567

TER-2: MFG: SANTAROSSA TILE
TYPE: VITRIFIED EPOXY TERRAZZO
COLOR: ERMINE WHITE (MATRIX), 5% DARK BLUE GLASS #1, 5% DARK BLUE GLASS #0, 10% GEORGIA WHITE #0, 50% GEORGIA WHITE #1, 10% BEIGE BLEND #1, 20% CHINA WHITE #1, DESIGNER TO APPROVE.
INSTALL: REF. SPECS. METAL TRANSITION STRIP TO BE USED AT ALL TRANSITIONS, REF. FINISH PLAN
LOCATION: ATRIUM, NATATORIUM CORRIDOR
CONTACT: ERIC SANTAROSSA 317-632-5567

TER-3: MFG: SANTAROSSA TILE
TYPE: VITRIFIED EPOXY TERRAZZO
COLOR: GREAT SMOKIES(MATRIX), 5% DARK BLUE GLASS #1, 5% DARK BLUE GLASS #0, 10% GEORGIA WHITE #0, 50% GEORGIA WHITE #1, 10% BEIGE BLEND #1, 20% CHINA WHITE #1, DESIGNER TO APPROVE.
INSTALL: REF. SPECS. METAL TRANSITION STRIP TO BE USED AT ALL TRANSITIONS, REF. FINISH PLAN
LOCATION: ATRIUM, NATATORIUM CORRIDOR
CONTACT: ERIC SANTAROSSA 317-632-5567

TER-4: MFG: SANTAROSSA TILE
TYPE: VITRIFIED EPOXY TERRAZZO
COLOR: LEGENDARY BLUE (MATRIX), 25% MIRROR #1, 37.5% SKY BLUE GLASS #1, 37.5% CLEAR GLASS #1 - DESIGNER TO APPROVE
INSTALL: REFER TO ENLARGED FLOOR FINISH PLAN
LOCATION: ATRIUM LOGO/EMBLEM - FINAL LOGO DESIGN TO BE DETERMINED

TER-5: MFG: SANTAROSSA TILE
TYPE: VITRIFIED EPOXY TERRAZZO
COLOR: REALLY ORANGE (MATRIX), 25% CHUNKY ORANGE #1, 65% CRYSTAL CLEAR GLASS #1, 10% ONE SIDED MIRROR #1 - DESIGNER TO APPROVE
INSTALL: REFER TO ENLARGED FLOOR FINISH PLAN
LOCATION: ATRIUM LOGO/EMBLEM - FINAL LOGO DESIGN TO BE DETERMINED

TER-6: MFG: SANTAROSSA TILE
TYPE: VITRIFIED EPOXY TERRAZZO
COLOR: ERMINE WHITE (MATRIX), 30% POLAR WHITE #1, 15% MIRROR #1, 50% GEORGIA WHITE #1, 5% CHINA WHITE #1
INSTALL: REFER TO ENLARGED FLOOR FINISH PLAN
LOCATION: ATRIUM LOGO/EMBLEM - FINAL LOGO DESIGN TO BE DETERMINED

FLOOR COVERING (CONT.)

FLOOR TILE

FT-1: MFG: DALTILE
TYPE: COLOR-BODY PORCELAIN MOSAIC
PATTERN: KEYSTONES
SIZE: 2"X2"
COLOR: ARTIC WHITE D617
GROUT: MAPEI, PEWTER 02
LOCATION: FROM POOL EDGE TO TRENCH DRAIN, REF. PLAN.
CONTACT: ROBIN BRADFORD 317-946-0823

FT-2: MFG: DALTILE
TYPE: COLOR-BODY PORCELAIN MOSAIC
PATTERN: KEYSTONES
SIZE: 2"X2"
COLOR: NAUTICAL BLUE D621
GROUT: MAPEI, PEWTER 02
LOCATION: POOL DECK, ADJACENT TO TRENCH DRAIN, REF. PLAN.
CONTACT: ROBIN BRADFORD 317-946-0823

FT-3: MFG: DALTILE
TYPE: COLOR-BODY PORCELAIN MOSAIC
PATTERN: KEYSTONES
SIZE: 2"X2"
COLOR: DESERT GRAY SPECKLE D200
GROUT: MAPEI, PEWTER 02
LOCATION: FROM TRENCH DRAIN TO REST OF POOL DECK, REF. PLAN.
CONTACT: ROBIN BRADFORD 317-946-0823

CONCRETE

S-CON: TYPE: SEALED CONCRETE, REF. SPECS

SS-CON: TYPE: STAINED AND SEALED CONCRETE, REF. SPECS

WALL BASE

EPOXY BASE

EB-1: MFG: SHERWIN WILLIAMS HIGH PERFORMANCE FLOORING
TYPE: RESUFLOR 1/4" DECO FLAKE BC EPOXY SYSTEM
COLOR: REBEL BLUE
INSTALL: MONOLITHIC, 4" INTEGRAL COVE BASE REF. SPECS
LOCATION: LOCKER ROOMS, RESTROOMS,
CONTACT: SCOTT KAISER 503-319-5209

EB-2: MFG: SHERWIN WILLIAMS HIGH PERFORMANCE FLOORING
TYPE: RESUFLOR 1/8" DECO FLAKE BC EPOXY SYSTEM WITH CLEAR CHEMICAL RESISTANT TOPCOAT
COLOR: REBEL BLUE
INSTALL: MONOLITHIC, 4" INTEGRAL COVE BASE REF. SPECS
LOCATION: SCIENCE LABS
CONTACT: SCOTT KAISER 503-319-5209

EB-3: MFG: SHERWIN WILLIAMS HIGH PERFORMANCE FLOORING
TYPE: FASTOP MULTI TOPFLOOR SL23
COLOR: DARK GRAY
INSTALL: MONOLITHIC, 4" INTEGRAL COVE BASE REF. SPECS
LOCATION: POOL MECHANICAL/CHEMICAL
CONTACT: SCOTT KAISER 503-319-5209

RESILIENT BASE

RB-1: MFG: TARKETT JOHNSONITE
TYPE: 4" VINYL WALL BASE
COLOR: 48 GREY
LOCATION: STANDARD
REMARKS: COLOR TO ALSO BE USED WITH ALL VINYL TRANSITION STRIPS
CONTACT: JEN MAYNARD 765-480-3266

TILE BASE

TB-1: MFG: DALTILE
TYPE: PORCELAIN BUILD-UP COVE BASE
PATTERN: KEYSTONES
SIZE: 6" H/M85A
COLOR: DESERT GRAY SPECKLE D200
GROUT: MAPEI, PEWTER 02
LOCATION: POOL DECK
CONTACT: ROBIN BRADFORD 317-946-0823

TERRAZZO BASE

TERB-1: MFG: SANTAROSSA TILE
TYPE: 4" INTEGRAL WALL BASE
COLOR: MATCH TER-1 MIX
INSTALL: INTEGRAL BASE, REF. SPECS
LOCATION: 1ST LEVEL

PAINT/WALL FINISH

PAINT

PT-1: MFG: PPG
COLOR: SHADED WHISPER PPG0995-1
LOCATION: STANDARD/ATRIUM/CORREDORS/ COLUMNS/ NATATORIUM/ HM DOORS AND FRAMES
CONTACT: MIKE WAGGONER 502-263-9371

PT-2: MFG: PPG
COLOR: STEELY GAZE PPG0996-2
LOCATION: CLASSROOMS/RESTROOMS
CONTACT: MIKE WAGGONER 502-263-9371

PT-3: MFG: PPG
COLOR: STATUE GARDEN PPG0996-3
LOCATION: POOL AREA ACCENT
CONTACT: MIKE WAGGONER 502-263-9371

PT-4: MFG: PPG
COLOR: FLORENTINE LAPIS PPG1244-7
LOCATION: ACCENT WALLS
CONTACT: MIKE WAGGONER 502-263-9371

PT-5: MFG: PPG
COLOR: SEASAME CRUNCH PPG1198-7
LOCATION: ACCENT WALLS
CONTACT: MIKE WAGGONER 502-263-9371

PT-6:
MFG: PPG
COLOR: CITY SKYLINE PPG0995-6
LOCATION: HM DOORS FRAMES
CONTACT: MIKE WAGGONER 502-263-9371

WALL TILE

WT-1: MFG: DALTILE
TYPE: 4"X12" GLAZED CERAMIC WALL TILE
PATTERN: COLOR WHEEL - LINEAR
COLOR: ARCTIC WHITE 0150
GROUT: MAPEI, COBBLESTONE 103
INSTALL: VERTICAL STACKED, REF. ELEVATIONS
REMARKS: RUN TILE TO TOP OF EB-1. USE SCHLUTER TRIM FOR TRANSITION
CONTACT: ROBIN BRADFORD 317-946-0823

WT-2: MFG: DALTILE
TYPE: 4"X12" GLAZED CERAMIC WALL TILE
PATTERN: COLOR WHEEL - LINEAR
COLOR: SEA BREEZE 1174
GROUT: MAPEI, COBBLESTONE 103
INSTALL: VERTICAL STACKED, REF. ELEVATIONS
REMARKS: RUN TILE TO TOP OF EB-1. USE SCHLUTER TRIM FOR TRANSITION
CONTACT: ROBIN BRADFORD 317-946-0823

PLASTIC LAMINATE/SOLID SURFACE

PLASTIC LAMINATE

PL-1: MFG: WILSONART
TYPE: PLASTIC LAMINATE
COLOR: NATURAL RECON 7996-38
INSTALL: MONOLITHIC,
LOCATION: DISPLAY CASE AREAS, WORKROOM, CLASSROOMS, SCIENCE LAB CASEWORK
CONTACT: CASSIE BEAMAN 317-910-0801

PL-2: MFG: FORMICA
TYPE: PLASTIC LAMINATE
COLOR: STAINLESS 9319-BH
INSTALL: MONOLITHIC
LOCATION: SCIENCE LAB CASEWORK
CONTACT: KYLIE LEYBA 317-869-8717

PL-3: MFG: FORMICA
TYPE: PLASTIC LAMINATE
COLOR: SPECTRUM BLUE 851-58
INSTALL: MONOLITHIC
LOCATION: SPIRIT SHOP CASEWORK
CONTACT: KYLIE LEYBA 317-869-8717

SOLID SURFACE

SS-1: MFG: CORIAN
TYPE: 1 1/2" SOLID SURFACE
COLOR: LIMESTONE PRIMA
INSTALL: MONOLITHIC
LOCATION: WORKROOMS, DISPLAY AREAS

SS-2: TYPE: EPOXY SOLID SURFACE
COLOR: BLACK, REF. SPECS
INSTALL: MONOLITHIC
LOCATION: SCIENCE LABS CASEWORK

SS-3: MFG: CORIAN
TYPE: 1 1/2" SOLID SURFACE
COLOR: ARTISTA GRAY
INSTALL: MONOLITHIC
LOCATION: LOCKER ROOM COUNTERTOPS SCIENCE CLASSROOMS, WINDOW SILLS

MISCELLANEOUS

CORNER GUARDS

CG-1: MFG: CS ACROVYN
TYPE: REFER TO SPECS
COLOR: TO MATCH PT-1, UNLESS NOTED OTHERWISE, DESIGNER TO APPROVE
LOCATION: PROVIDE AT ALL EXTERIOR DRYWALL CORNERS
CONTACT: AMY FEHRIBACH 317-407-2534

ACOUSTICAL

AWP-1: MFG: NOVAWALL
TYPE: FABRIC WRAPPED ACOUSTICAL SYSTEM
PATTERN: GUILFORD OF MAINE, ANCHORAGE, 2335
SIZE: CUSTOM, REFER TO ELEVATIONS
COLOR: LAPIS 2094
BACKING: ARCHITECT TO APPROVE
LOCATION: ATRIUM WALLS
CONTACT: MARCO CAPONI 317-561-1141

AWP-2: MFG: NOVAWALL
TYPE: FABRIC WRAPPED ACOUSTICAL SYSTEM
PATTERN: GUILFORD OF MAINE, ANCHORAGE, 2335
SIZE: CUSTOM, REFER TO ELEVATIONS
COLOR: WHITE 2664
BACKING: ARCHITECT TO APPROVE
LOCATION: ATRIUM WALLS
CONTACT: MARCO CAPONI 317-561-1141

AWP-3: MFG: ARMSTRONG
TYPE: ACOUSTICAL PANEL
PATTERN: TECTUM DIRECT ATTACH
SIZE: 1 1/2" T, 23 3/4" X 96"
FINISH: PAINT GRADE, REFER TO ELEVATIONS
BACKING: ARCHITECT TO APPROVE
LOCATION: POOL DECK WALLS, REFER TO ELEVATIONS
CONTACT: PHIL CAITO 317-519-2829

AWP-4: MFG: ARMSTRONG
TYPE: ACOUSTICAL PANEL
PATTERN: TECTUM DIRECT ATTACH
SIZE: 1 1/2" T, 23 3/4" X 96"
COLOR: PAINT GRADE, PAINTED PT-1
BACKING: ARCHITECT TO APPROVE
LOCATION: POLL DECK WALLS, REFER TO ELEVATIONS
CONTACT: PHIL CAITO 317-519-2829

MARKERBOARDS

MKBD-1: MFG: CLARIDGE
TYPE: GLASS WHITEBOARD
COLOR: SIGNAL BLUE RAL5005
SIZE: 4' X 6' OR CUSTOM
LOCATION: BACK WALLS OF HALLWAY ALCOVES
CONTACT: ELDON WATSON 870-416-5834

MKBD-2: MFG: CLARIDGE
TYPE: LCS DELUXE PROCELAIN WHITEBOARD
COLOR: WHITE
SIZE: 4' x 12'
LOCATION: CLASSROOM TEACHING WALL
CONTACT: ELDON WATSON 870-416-5834

TOILET PARTITIONS

TP-1 MFG: BOBRICK
TYPE: CL PHENOLIC
PRODUCT: DURALINE SERIES
COLOR: CHARCOAL 0077-FH
LOCATION: LOCKER ROOMS, RESTROOMS
CONTACT: AMY FEHRIBACH 317-407-2534

WOOD

WD-1: MFG: SURFACE MATERIALS
TYPE: STAINED & SEALED WOOD FINISH
COLOR: TO MATCH PL-1, DESIGNER TO APPROVE
LOCATION: NEW DOORS, HALLWAY ALCOVES, ATRIUM RISERS

WD-2: MFG: CUSTOM BUTCHERBLOCK COUNTERTOP
TYPE: EDGE GRAIN CONSTRUCTION
COLOR: STAIN TO MATCH PL-1, DESIGNER TO APPROVE
LOCATION: 2ND FLOOR CATWALK, 3RD FLOOR ATRIUM FLEX SPACE

WALL PANEL

WP-1: MFG: MARLITE
TYPE: MDF SLATWALL W/ 7000 SERIES ALUMINUM INSERTS
COLOR: GOSHEN WHITE 750
SIZE: 4' X 8' PANELS
LOCATION: SPRIT SHOP
CONTACT: DAN EGBERS 320-260-7633

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

JERRY L CRITES
REGISTERED
NO. 8800133
STATE OF
INDIANA
PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
1	08/30/2022	ADDENDUM 01
2	09/06/2022	ADDENDUM 02
3		

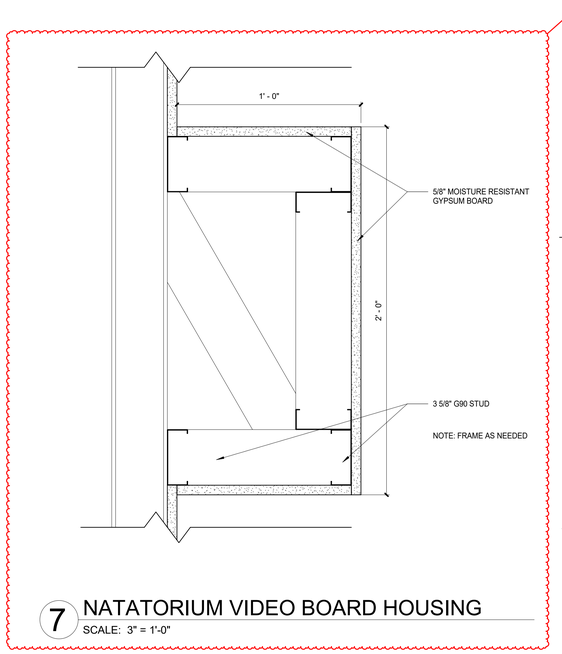
100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 08-11-2023
DRAWN BY: Author

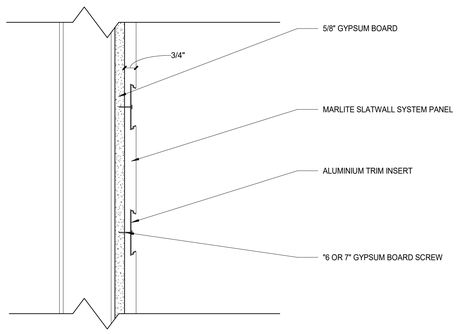
FINISH LEGEND

A720

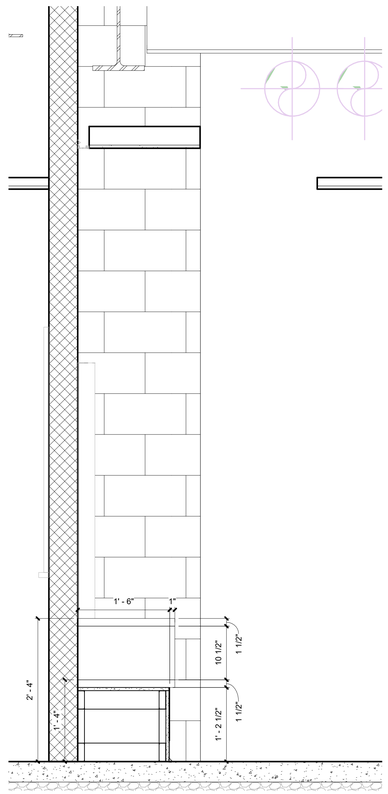
PLOT DATE/TIME:9/6/2022 2:55:43 PM



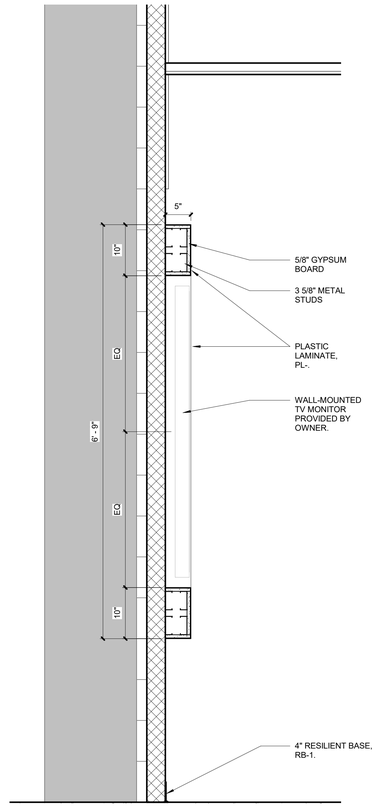
7 NATATORIUM VIDEO BOARD HOUSING
SCALE: 3" = 1'-0"



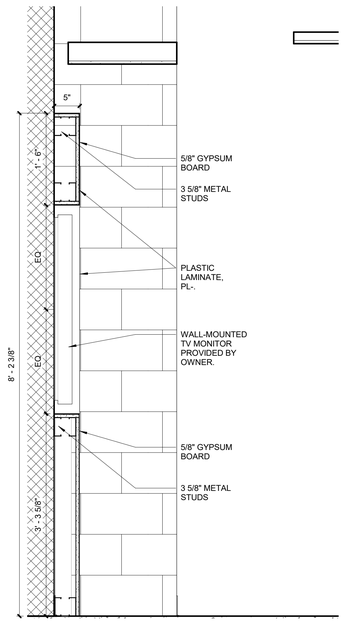
6 SPIRIT SHOP SLATWALL DETAIL
SCALE: 3" = 1'-0"



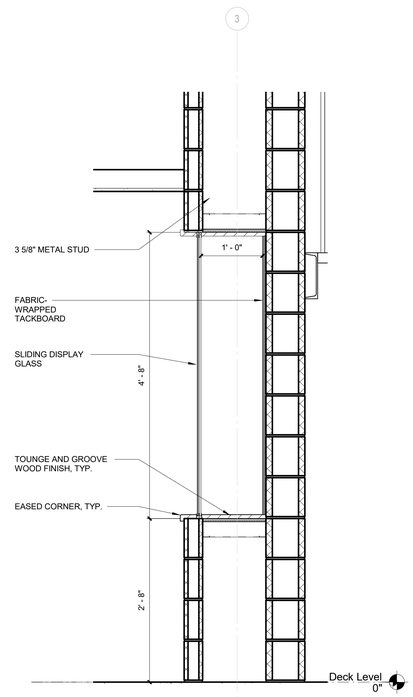
5 CORRIDOR BENCH WITH SOLID SURFACE
SCALE: 1" = 1'-0"



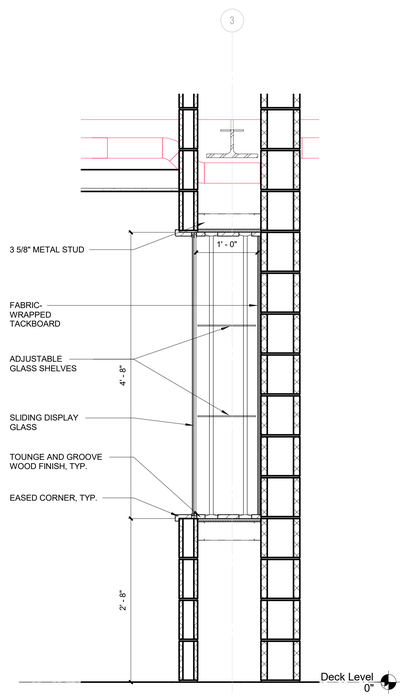
4 VERTICAL MONITOR FRAME SECTION
SCALE: 1" = 1'-0"



3 HORIZONTAL MONITOR FRAME SECTION
SCALE: 1" = 1'-0"



2 DISPLAY CASE SECTION
SCALE: 1" = 1'-0"



1 DISPLAY CASE WITH SHELVES SECTION
SCALE: 1" = 1'-0"

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

REVISIONS:

#	Date	Desc.
2	09/06/202 3	ADDENDUM 02

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 08-11-2023
DRAWN BY: Author

INTERIOR DETAILS

A732

PLOT DATE/TIME: 9/6/2023 2:29:44 PM

GENERAL NOTES - INTERIOR ELEVATIONS

A. CONTRACTOR TO PROVIDE SCHLUTER EDGE WHERE TILE MEETS DISSIMILAR MATERIALS. REFER TO FINISH MATERIAL LEGEND AND INTERIOR ELEVATIONS FOR FURTHER DETAILS.LS

B. DO NOT INSTALL GYPSUM BOARD BEHIND TILE BACKER BOARD LOCATIONS.

C. CONTRACTOR TO PROVIDE DRYWALL REVEAL JOINT WHERE DRYWALL MEETS DISSIMILAR MATERIALS.

D. CONTRACTOR TO PROVIDE SCHLUTER EDGE WHERE TILE MEETS DISSIMILAR MATERIALS. REFER TO FINISH MATERIAL LEGEND AND INTERIOR ELEVATIONS FOR FURTHER DETAILS.

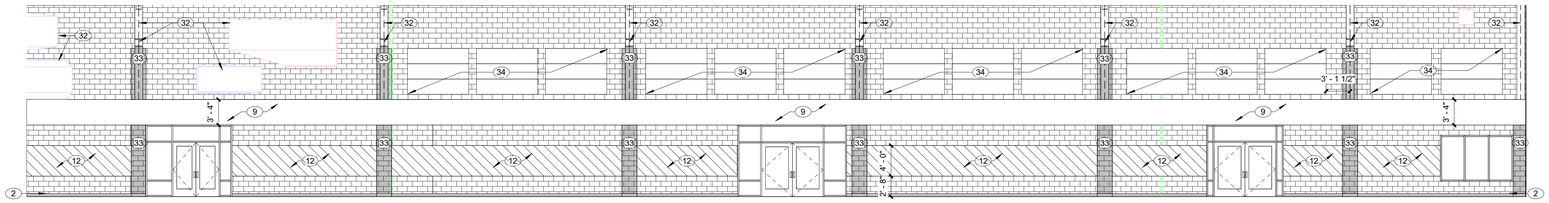
E. IF ONLY PAINT IS INDICATED AS THE FINISH, REFER TO ARCHITECTURAL FLOOR PLANS FOR SUBSTRATE INFORMATION.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFACTION OF DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS INDICATED ON THE FINISH PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND DESIGNERS.

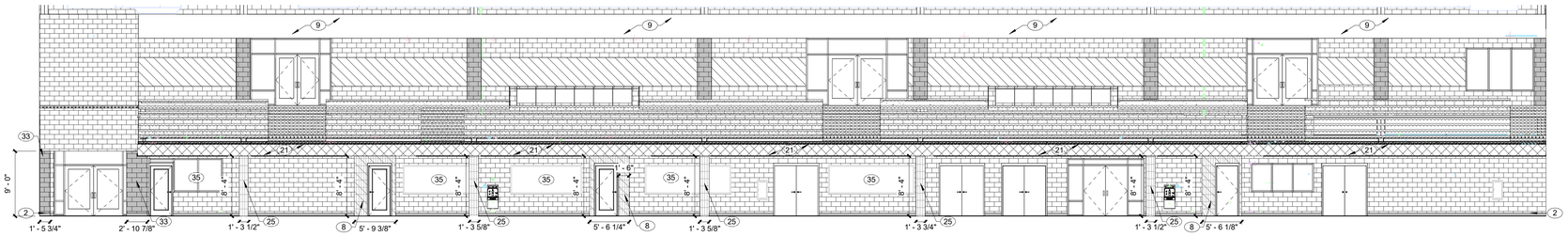
G. ALL DIMENSIONS SHOWN ARE TO FACE OF FINISH MATERIAL, UNLESS INDICATED OTHERWISE ON PLANS.

H. ALL EXPOSED METAL SURFACES, SUCH AS GRILLES, FIRE EXTINGUISHER CABINETS, ETC., THAT ARE NOTED TO BE PAINTED ARE TO BE PAINTED MATCH WALL COLOR.

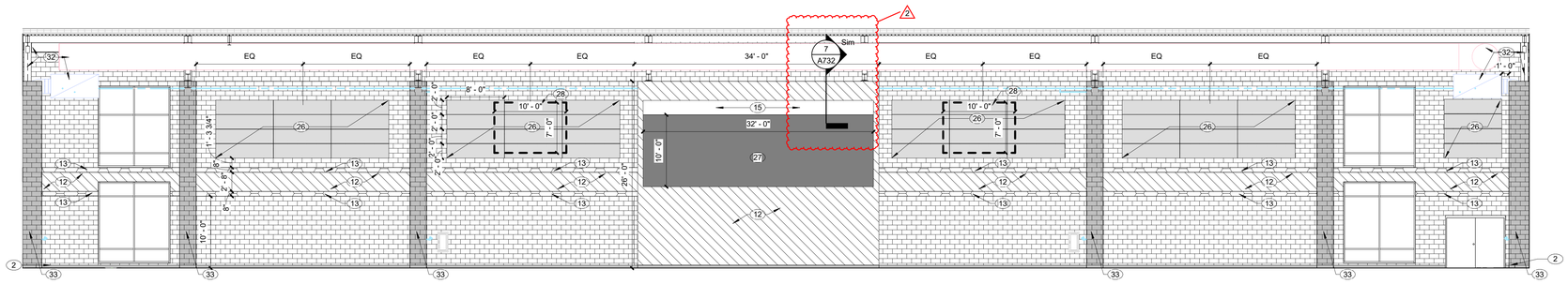
I. ALL WALLS TO BE PAINTED PT-1, UNLESS NOTED OTHERWISE.



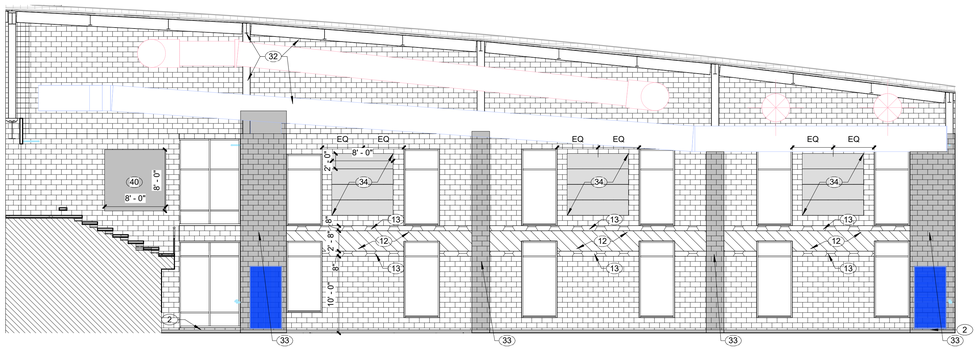
5 Pool Seating M200 - East
SCALE: 1/8" = 1'-0"



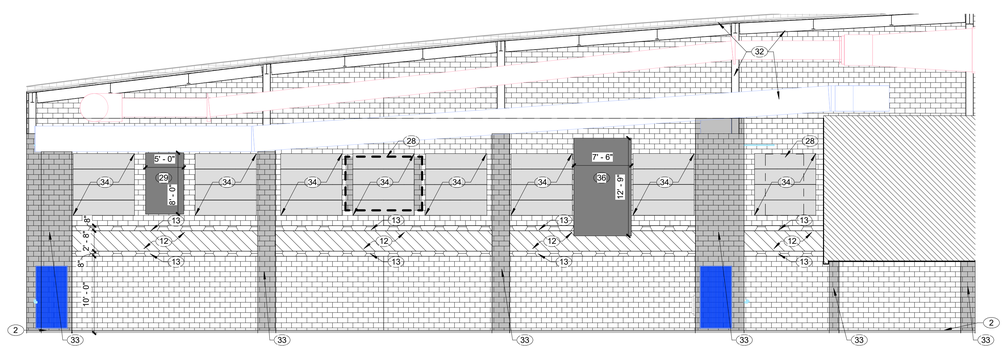
4 Pool Deck M100 - East
SCALE: 1/8" = 1'-0"



3 Pool Deck M100 - West
SCALE: 1/8" = 1'-0"



2 Pool Deck M100 - South
SCALE: 1/8" = 1'-0"



1 Pool Deck M100 - North
SCALE: 1/8" = 1'-0"

ELEVATION NOTES - INTERIOR

1 WALL TILE, WT-1. REF. FINISH LEGEND.
2 1/4" SATIN ANODIZED ALUMINUM FINISH, SCHLUTER DILEX-AHKA TRIM - FLOOR/WALL TRANSITION.
3 1/4" SATIN ANODIZED ALUMINUM FINISH, SCHLUTER JOLLY TRIM - WALL/CEILING TRANSITION.
4 1-1/2" SOLID SURFACE TOP, SS-1. REF. FINISH LEGEND.
5 PLASTIC LAMINATE FRONT AND SIDES, PL-1. REF. FINISH LEGEND.
6 1/4" SATIN ANODIZED ALUMINUM FINISH, SCHLUTER DILEX-AHK TRIM - WALL/WALL TRANSITION.
7 TOILET PARTITION. REFER TO SPECS.
8 WALL TILE, WT-2. REF. FINISH LEGEND.
9 CUSTOM VINYL GRAPHIC ON DRYWALL. COORDINATE FINAL DESIGN WITH OWNER.
10 CUSTOM 3D ACRYLIC SIGNAGE ELEMENT AT THIS LOCATION WITH LIGHTING. PROVIDE POWER FOR LED LIGHTS. COORDINATE FINAL DESIGN WITH OWNER.
11 WALL MOUNTED DISPLAY MONITOR. PROVIDED BY OWNER. PROVIDE POWER.
12 TO BE PAINTED, PT-4. REF. FINISH LEGEND.
13 TO BE PAINTED, PT-5. REF. FINISH LEGEND.
14 ROLL-DOWN GRILLE DOOR TO HAVE VINYL DECAL. COORDINATE FINAL DESIGN WITH OWNER.
15 FURRING STRIPS TO BE PROVIDED FOR VIDEO BOARD HOUSING. EXACT DIMENSIONS TO BE FIELD VERIFIED. VIDEO BOARD HOUSING TO ALSO INCLUDE 1/2" LETTERING PANEL. COORDINATE FINAL DESIGN WITH OWNER.
16 BUILT-OUT MONITOR FRAME WITH PLASTIC LAMINATE, PL-1 FRONT. REFER TO INTERIOR DETIALS SHEET A732.
17 ACOUSTIC FABRIC WRAPPED PANEL, AWP-1. REF. TO FINISH LEGEND.
18 CUSTOM 3D ACRYLIC SIGNAGE ELEMENT AT THIS LOCATION. COORDINATE FINAL DESIGN WITH OWNER.
19 ACOUSTIC FABRIC WRAPPED PANEL, AWP-2. REF. TO FINISH LEGEND.
20 PLASTIC LAMINATE, PL-1 FRONT AND SIDES. REFER TO SECTION 2/A351.
21 TO BE PAINTED, PT-3. REF. FINISH LEGEND.
22 GLASS MARKERBOARD MOUNTED TO WALL, MKBD-1. REF. FINISH LEGEND.
23 CUSTOM VINYL GRAPHIC ON DRYWALL AT THIS LOCATION. COORDINATE FINAL DESIGN WITH OWNER
24 CUSTOM VINYL GRAPHIC ON CMU AT THIS LOCATION. COORDINATE FINAL DESIGN WITH OWNER
25 NATATORIUM COLUMNS TO HAVE WALL TILE, WT-1 WRAPPED AROUND ALL SIDES. ALL OUTSIDE CORNERS TO BE FINISHED WITH SCHLUTER SATIN ANODIZED ALUMINUM JOLLY TRIM AND CORNER PIECES.
26 ACOUSTIC PANEL, AWP-3. TO BE PAINTED PT-2.
27 WALL MOUNTED VIDEO SCORE BOARD. REFER TO POOL DRAWINGS AND SPECIFICATIONS.
28 CUSTOM BANNER/GRAPHIC TO BE INSTALLED OVER AWP-3. COORDINATE FINAL DESIGN WITH OWNER.
29 AMERICAN FLAG PROVIDE BY OWNER.
31 URINAL PARTITION, REFER TO SPECS.
32 ALL EXPOSED STRUCTURAL STEEL COLUMNS, BEAMS, AND TRUSSES, ALONG WITH ALL CEILING AND CEILING MECHANICAL EQUIPMENT IN NATATORIUM TO BE PAINTED PT-2 - TYPICAL.
33 CMU WRAPPED NATATORIUM COLUMNS TO BE PAINTED PT-3 ON ALL SIDES.
34 ACOUSTIC PANEL, AWP-4. TO BE PAINTED PT-1.
35 MARKERBOARD MOUNTED TO WALL, MKBD-2. REF. TO FINISH LEGEND.
36 DIGITAL DISPLAY BOARD. REFER TO POOL DRAWINGS.
37 DOUBLE STACKED LOCKERS. COLOR TO BE ROYAL BLUE. FINISH AND MATERIAL TO BE APPROVED BY ARCHITECT.
38 SINGLE STACK LOCKERS. COLOR TO BE ROYAL BLUE. FINISH AND MATERIAL TO BE APPROVED BY ARCHITECT.
39 RESILIENT BASE TO BE INSTALLED AND WRAPPED ALONG SIDES OF DRYWALL PARTITIONS.
40 CUSTOM 3D ACRYLIC SIGN. COORDINATE FINAL DESIGN WITH OWNER.

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

REVISIONS:			
#	Date	Desc:	
1	08/30/2022	ADDENDUM 01	
2	09/26/2022	ADDENDUM 02	
3			

100% CONSTRUCTION DOCUMENT

PROJECT:	#22130
DATE:	08-11-2023
DRAWN BY:	Author

INTERIOR ELEVATIONS

A753

PLOT DATE/TIME:9/6/2022 2:54:43 PM

September 6, 2023

Mr. Misha Belyayev
Lancer Associates Architecture
145 N. East Street
Indianapolis, IN 46204

RE: Whiteland Community High School Campus Improvements
Phase 1
Summary of Civil Revisions – Addendum No. 002

Misha:

Please see below for a summary of the plan revisions, dated September 6, 2023, which are associated with Addendum No. 002 for the above referenced project:

- **Demolition Plan (sheet 207) –** revised pavement and curb removal limits to match revised three-phase electric transformer location.
- **Site Dimension Plan (sheet 301) –** revised pavement and curb replacement limits to match revised three-phase electric transformer location.
- **Utility Plan (sheet 400) –** revised three-phase electric transformer location per design team coordination with Owner and Johnson Co. REMC.
- **Grading Plan (sheet 500) –** revised pavement and curb replacement grades to match revised three-phase electric transformer location.
- **Erosion Control Plan (sheet 901) –** revised mulched seeding hatch and construction limits to match revised three-phase electric transformer location.

Please find the revised construction plans enclosed. Please feel free to contact me at 317-780-1555 ext. 135 or dsnyder@crossroadengineers.com if you have any questions or need additional information on these subjects.

Sincerely,
CrossRoad Engineers, P.C.

Derek M. Snyder, P.E.
Project Engineer

DEMOLITION PLAN NOTES

1. CONTRACTOR SHALL DISPOSE OF ALL MATERIALS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
2. UTILITIES ARE GRAPHICAL REPRESENTATION PER SURVEY AND MAPPING. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE WITH APPLICABLE UTILITY COMPANIES FOR SERVICE DIS-CONNECTIONS AND/OR RELOCATIONS.
4. CONTRACTOR SHALL REMOVE ALL TREES, STUMPS, SHRUBS, AND VEGETATION FROM WITHIN THE CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL REMOVE ALL ASPHALT AND CONCRETE PAVEMENT, SIDEWALKS, AND CURBS FROM WITHIN THE CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL FIELD LOCATE AND MARK ALL EXISTING ROOF DRAIN AND SANITARY SEWER LATERALS WHERE THEY EXIT THE BUILDING PRIOR TO CONSTRUCTION.
7. CONTRACTOR SHALL VERIFY PARKING LOT LIGHT POLE AND ELECTRIC LINE REMOVAL LIMITS WITH THE SITE LIGHTING PLAN PREPARED BY PRIMARY ENGINEERING, INC. PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL CONFIRM DEMOLITION SEQUENCING WITH THE SKILLMAN CORPORATION PRIOR TO CONSTRUCTION.
9. CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING UNDERGROUND STORMWATER DETENTION CHAMBERS DURING THE ENTIRE DURATION OF THE PROJECT. CONTRACTOR SHALL COORDINATE WITH ADVANCED DRAINAGE SOLUTIONS, INC. (ADS) TO DETERMINE THE MINIMUM COVER REQUIRED OVER THE EXISTING CHAMBERS DURING CONSTRUCTION, AS WELL AS, THE APPROPRIATE EQUIPMENT AND OPERATIONS TO PROTECT THE CHAMBERS.

FLOODPLAIN INFORMATION

BY GRAPHIC PLOTTING ONLY, THIS TRACT OF LAND DESCRIBED HEREON LIES WITHIN THE UNSHADED PORTION OF ZONE "X" (AREAS OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN), FLOODPLAIN ZONE "X" (AREAS OF 0.2% ANNUAL CHANCE FLOOD), FLOODPLAIN ZONE "AE" (AREA OF 1% ANNUAL CHANCE FLOOD WITH ESTABLISHED BASE FLOOD ELEVATIONS), AND FLOODWAY ZONE "AE" AND IS IN A SPECIAL FLOOD HAZARD AREA AS PLOTTED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR JOHNSON COUNTY, INDIANA, COMMUNITY PANEL NO. 18081C0137D, WHICH BEARS AN EFFECTIVE DATE OF 08/02/2007.

EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.

INDIANA 811 You Dig! Know what's below. Call before 811

NORTH

50 0 50 100

SCALE: 1" = 50'

DEMOLITION LEGEND

- (J) FULL DEPTH SAWCUT
- (1) EX. STORM STRUCTURE, REMOVE
- (2) EX. STORM STRUCTURE, TO REMAIN
- (3) EX. STORM SEWER, REMOVE
- (4) EX. STORM SEWER, TO REMAIN
- (5) EX. STORM SEWER, CUT & CAP W/CONCRETE BULKHEAD
- (6) EX. SANITARY STRUCTURE, REMOVE
- (7) EX. SANITARY STRUCTURE, TO REMAIN
- (8) EX. SANITARY SEWER, REMOVE
- (9) EX. SANITARY SEWER, TO REMAIN
- (10) EX. FIRE HYDRANT ASSEMBLY, REMOVE
- (11) EX. FIRE HYDRANT ASSEMBLY, TO REMAIN
- (12) EX. WATER MAIN, REMOVE
- (13) EX. WATER MAIN, TO REMAIN
- (14) EX. LIGHT POLE & FOUNDATION, REMOVE
- (15) EX. LIGHT POLE & FOUNDATION, TO REMAIN
- (16) EX. ELECTRONIC SIGN & FOUNDATION, REMOVE
- (17) EX. FENCE/BOLLARD, REMOVE
- PAVEMENT/CONCRETE REMOVAL

UTILITIES

Note: Listed below are the Indiana Underground Plant Protection Services Contacts; Others not listed may exist.

SANITARY SEWER
TOWN OF WHITELAND
SANITATION DEPARTMENT
549 MAIN STREET
WHITELAND, IN 46184
PHONE: (317) 557-2955
EMAIL: SEWERSUPT@WHITELANDIN.US
CONTACT: JESSE JONES

TOWN OF NEW WHITELAND
SANITATION DEPARTMENT
540 TRACY ROAD, SUITE A
NEW WHITELAND, IN 46184
PHONE: (317) 941-3544
EMAIL: MATT.GILLOCK@NEWWHITELAND.IN.GOV
CONTACT: MATT GILLOCK

STORM SEWER
TOWN OF WHITELAND
DEPARTMENT OF PUBLIC WORKS
549 MAIN STREET
WHITELAND, IN 46184
PHONE: (317) 557-1033
EMAIL: STREETDEPT@WHITELANDIN.US
CONTACT: SHAUN YOUNG

GAS
CENTERPOINT ENERGY
600 INDUSTRIAL DRIVE
FRANKLIN, IN 46131
PHONE: (765) 287-2119
EMAIL: JONATHAN.EASTHAM@CENTERPOINTENERGY.COM
CONTACT: JONATHAN EASTHAM

WATER
TOWN OF WHITELAND
DEPARTMENT OF PUBLIC WORKS
549 MAIN STREET
WHITELAND, IN 46184
PHONE: (317) 557-1033
EMAIL: STREETDEPT@WHITELANDIN.US
CONTACT: SHAUN YOUNG

INDIANA AMERICAN WATER COMPANY
153 N. EMERSON AVENUE
GREENWOOD, IN 46143
PHONE: (317) 209-5837
EMAIL: JONNY.NORRIS@AMWATER.COM
CONTACT: JONNY NORRIS

ELECTRIC
TOWN OF BARGERSVILLE
24 N. MAIN STREET
BARGERSVILLE, IN 46106
PHONE: (317) 422-5117
EMAIL: KKILLINGER@BARGERSVILLE.IN.GOV
CONTACT: KEVIN KILLINGER

JOHNSON COUNTY REMC
750 INTERNATIONAL DRIVE
FRANKLIN, IN 46131
PHONE: (317) 738-7639
EMAIL: JEANS@JCREMC.COM
CONTACT: SCOTT JEAN

TELECOMMUNICATIONS
JOHNSON COUNTY REMC FIBER
750 INTERNATIONAL DRIVE
FRANKLIN, IN 46131
PHONE: (317) 797-9786
EMAIL: BENNETE@JCREMC.COM
CONTACT: ERIC BENNETT

BRIGHTSPEED
50 N. JACKSON STREET
FRANKLIN, IN 46131
PHONE: (980) 376-1445
EMAIL: JAMES.W.ROLLEY@BRIGHTSPEED.COM
CONTACT: JAMES ROLLEY

EVERSTREAM
342 MASSACHUSETTS AVENUE
INDIANAPOLIS, IN 46204
PHONE: (317) 213-3137
EMAIL: MPUGH@EVERSTREAM.NET
CONTACT: MARK PUGH

COMCAST
1600 W. VERNAL PIKE
BLOOMINGTON, IN 47404
PHONE: (812) 360-3090
EMAIL: STEVE_MCARTOR@COMCAST.COM
CONTACT: STEVE MCARTOR

METRONET
3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
PHONE: (812) 253-2196
EMAIL: MARK.DECKARD@METRONETINC.COM
CONTACT: MARK DECKARD

NOTE: The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantees that the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although the surveyor does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

BENCHMARK INFORMATION

ORIGINATING BENCHMARK

DESIGNATION – X 13
PID – KA0010
STATE/COUNTY – IN/MORGAN
USGS QUAD – MOORESVILLE EAST (1980)

VERT ORDER – FIRST CLASS II

DESCRIBED BY COAST AND GEODETIC SURVEY 1946
1.2 MI N FROM WAVERLY.
IN JOHNSON COUNTY, 1.2 MILES NORTH ALONG STATE HIGHWAY 37 FROM THE INTERSECTION OF STATE HIGHWAY 144 AT WAVERLY, MORGAN COUNTY, 125 YARDS NORTH OF THE MORGAN-JOHNSON COUNTY LINE, 26 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, IN LINE WITH THE WEST RIGHT-OF-WAY FENCE, 1.5 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND ABOUT 2 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED 686.370 X 13 1930 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 7 INCHES ABOVE GROUND.

RECOVERY NOTE BY IN DEPT OF NAT RES 1985
NEW DESC> AT THE INTERSECTION OF NEW STATE ROAD 144 AND OLD STATE ROAD 37, IN THE SOUTHWEST QUARTER OF THE INTERSECTION, WITNESS POST IS GONE RIGHT-OF-WAY FENCE IS GONE, ALL OTHER INFORMATION APPEARS TO BE CORRECT.

ELEVATION = 685.94 (NAVD 88)

TBM #400
RR SPIKE SET IN E FACE OF PP# "P21063" LOCATED ±180' N OF "TRACT NORTH DRIVE" ±40' WEST OF "SAINT CHARLES WAY"
ELEV.=805.77

TBM #401
RR SPIKE SET IN E FACE OF PP# "P21042" LOCATED ±6' W OF "TRACY ST." ±40' S OF N PARKING LOT ENTRANCE @ "CLARK PLEASANT EMPLOYEE HEALTH & WELLNESS CENTER"
ELEV.=805.07

TBM #402
CUT BOX ON TOP OF CONC PEDESTAL FOR UP ON N EDGE OF CONC. LOCATED @ NE MOST CORNER OF PARKING LOT FOR "199 US-31 "BIG SPLASH CAR WASH"
ELEV.=806.18

TBM #403
SE MOST CORNER OF BOTTOM CONC STEP LOCATED @ SE CORNER OF "STUDIO 31 SALON" "43 N. US-31" ON E FACE OF BUILDING.
ELEV.=801.28

TBM #404
NE CORNER OF TOP CONC STEP CONNECTED TO LEAD WALK @ "239 E MAIN ST." LOCATED SE QUAD OF "E MAIN ST." & "TICHENOR LN."
ELEV.=799.80

TBM #405
RR SPIKE SET IN E FACE POWERPOLE. LOCATED ±5' S OF "E MAIN ST." & ±XX W OF DRIVE @ "399 E MAIN ST."
ELEV.=790.98

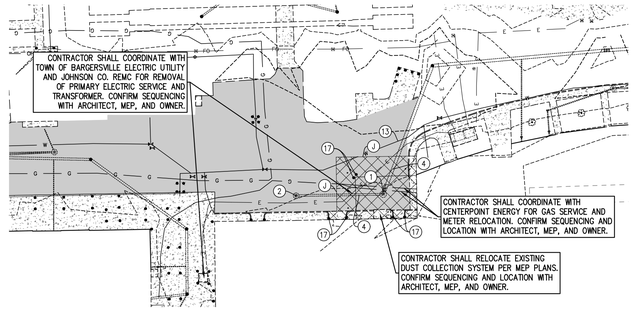
TBM #406
SW CORNER OF CONC PORCH @ "49 CENTER ST."
ELEV.=797.61

TBM #407
RR SPIKE SET IN S FACE OF PP# "P22C73". LOCATED ±5' E OF "CENTER ST." & ±150' N OF "CLEM ST."
ELEV.=800.07

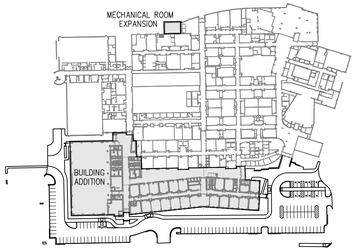
TBM #408
RR SPIKE SET IN E FACE OF POWER POLE. LOCATED @ SW CORNER OF PROPERTY OF "329 CHRISTINA DR."
ELEV.=800.89

EXISTING LEGEND

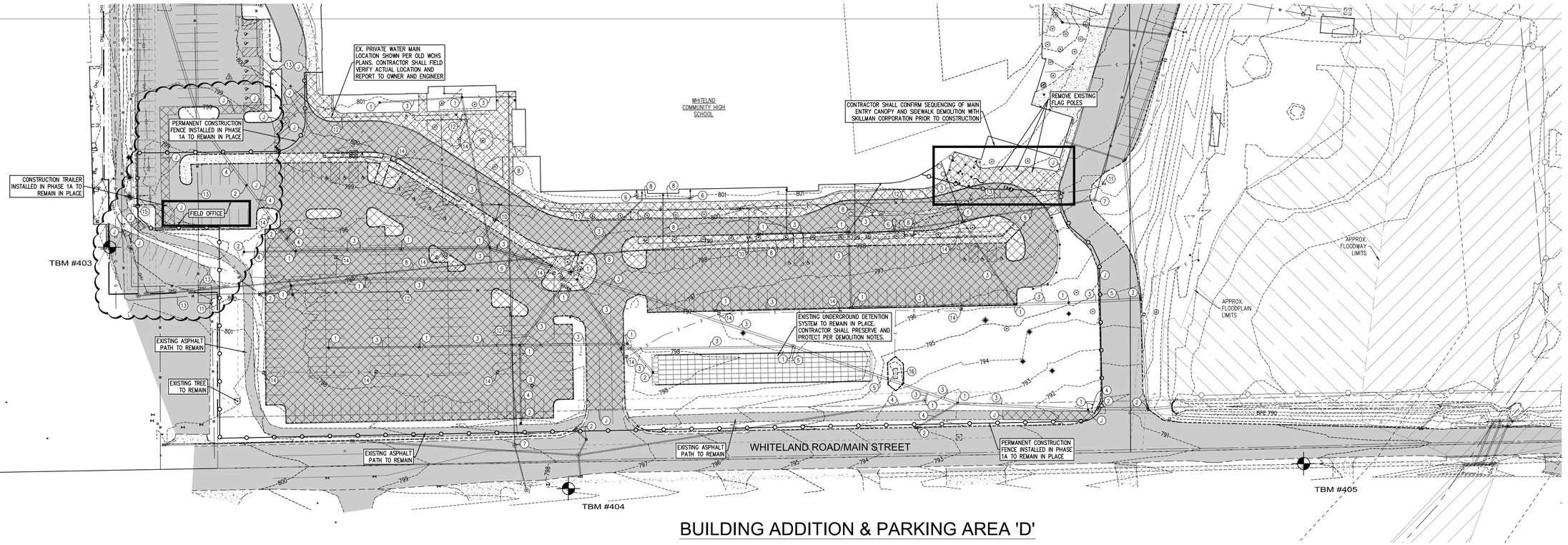
- POWERPOLE
- POWERPOLE W/RISER
- POWERPOLE W/LIGHT
- LIGHT POLE
- ELECTRIC METER
- ELECTRIC BOX
- YARD LIGHT
- GUIDE WIRE
- TELEPHONE MANHOLE
- TELEPHONE RISER
- WATER VALVE
- FIRE HYDRANT
- WATER MANHOLE
- WATER METER
- GAS VALVE
- GAS METER
- CABLE TV RISER
- FIBER OPTIC BOX
- CLEANOUT
- SIGN
- STORM ROUND INLET
- STORM CURB INLET
- RIGHT-OF-WAY MARKER
- TREE, BUSH & STUMP
- TEMP. BENCHMARK
- CONTOURS
- PROPERTY LINE
- SECTION LINE
- RIGHT-OF-WAY
- EASEMENT
- ADJOINER LINE
- PAVEMENT LINE
- FIELD LINE
- PRIVACY FENCE
- CHAINLINK FENCE
- SPLIT RAIL FENCE
- DITCH
- FIBER OPTIC LINE
- GAS LINE
- TELEPHONE LINE
- WATER LINE
- CABLE TV LINE
- ELECTRIC LINE
- OVERHEAD UTILITY LINE
- TREE LINE
- SANITARY SEWER W/MANHOLE
- STORM SEWER W/MANHOLE & END SECTION
- (D) DEED (M) MEASURE (PS) PLAT SURVEY
- ASPHALT, BUILDING, CONCRETE, GRAVEL



MECHANICAL ROOM EXPANSION



KEYMAP
NOT TO SCALE



BUILDING ADDITION & PARKING AREA 'D'

DIRECTORY PATH : R:\Active\Lauren + Basket\Whiteland High School\Design\CAD\Plans\PHASE 1
FILENAME : 201 DEMOLITION PLAN.dwg
DATE/USER : 9/6/2023 12:25 PM / kfay

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

DEMOLITION PLAN
WHITELAND HIGH SCHOOL PHASE 1

JOB No.	.	DRAWN	KLF	CHECKED	TEN	APPR.	CJ4
DATE	JULY 5, 2023	DESIGNED	DMS				

SHEET 207

REGISTERED ENGINEER DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL

NO.	DATE	REVISIONS	BY	APPR.
1	07.28.23	REVISIONS PER WHITELAND TAC COMMENTS. 100% CONSTRUCTION DOCUMENT	DMS	CJ4
2	08.30.23	REVISIONS PER ADDENDUM NO. 001	DMS	CJ4
3	09.06.23	REVISIONS PER ADDENDUM NO. 002	DMS	CJ4

SHEET 207

SCALE: 1" = 20'

NOTE:
NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

INDIANA 811 Know what's below. Call before you dig.

SITE DIMENSION NOTES

1. ALL NEW SIGNAGE AND PARKING LOT LIGHTS SHALL MATCH WHITELAND COMMUNITY HIGH SCHOOLS' EXISTING SIGNAGE AND LIGHTING. CONTRACTOR SHALL COORDINATE WITH OWNER, LANDSCAPE ARCHITECT (CONTEXT DESIGN), AND MEP DESIGNER FOR LIGHT STYLES AND LAYOUT.
2. CONTRACTOR SHALL NOTIFY ENGINEER, IF PROOF ROLL OF SUBGRADE FAILS, TO DETERMINE IF LIME STABILIZATION OF SUBGRADE IS NECESSARY.
3. ALL RADII DIMENSIONS ARE TO THE FACE OF PROPOSED CURB.
4. SIGNAGE SHALL INCLUDE ALL NECESSARY HARDWARE AND FITTINGS, INCLUDING 10 FT. OF 11 GAUGE FLANGED CHANNEL SIGN POST.
5. REFER TO LANDSCAPE AND ARCHITECTURAL PLANS FOR ADDITIONAL SIGNAGE. VERIFY CONFLICTS WITH OWNER, ARCHITECT, AND LANDSCAPE ARCHITECT.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND PROVIDING ALL NECESSARY FLAGMAN, BARRELS, SIGNAGE, ETC. DURING CONSTRUCTION. ALL APPLICABLE M.U.T.C.D. STANDARDS SHALL GOVERN THIS WORK.
7. LANDSCAPING PLAN TO BE PROVIDED BY CONTEXT DESIGN. CONTRACTOR SHALL COORDINATE WITH OWNER AND CONTEXT FOR SPECIFICATIONS.
8. CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING UNDERGROUND STORMWATER DETENTION CHAMBERS DURING THE ENTIRE DURATION OF THE PROJECT. CONTRACTOR SHALL COORDINATE WITH ADVANCED DRAINAGE SOLUTIONS, INC. (ADS) TO DETERMINE THE MINIMUM COVER REQUIRED OVER THE EXISTING CHAMBERS DURING CONSTRUCTION, AS WELL AS, THE APPROPRIATE EQUIPMENT AND OPERATIONS TO PROTECT THE CHAMBERS.
9. EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.
10. CONTRACTOR SHALL REFER TO THE MATERIALS PLAN PREPARED BY CONTEXT DESIGN FOR THE MATERIALS, FINISHES, LAYOUTS, JOINT PATTERNS, DIMENSIONS, DETAILS, AND SECTIONS AT THE PEDESTRIAN ENTRANCE PLAZAS PRIOR TO CONSTRUCTION. REPORT ANY DIMENSIONAL OR LAYOUT DISCREPANCIES BETWEEN CONTEXT PLANS AND SITE DIMENSION PLANS (SHEETS 301–302) TO THE ENGINEER AND ARCHITECT IMMEDIATELY.

PROPOSED LEGEND

- PROPERTY LINE
- SECTION LINE
- PHASE LINE
- SETBACK LINE
- EASEMENT LINE
- FENCE LINE
- DITCH LINE
- SANITARY SEWER WITH MANHOLE
- SANITARY SEWER LATERAL WITH CLEANOUT
- STORM SEWER W/MANHOLE & END SECTION
- ELECTRIC LINE
- WATER LINE
- FIRE SUPPRESSION LINE
- STORM INLETS
- STORM CURB INLETS
- AQUA-SWIRL UNITS
- WATER TEE
- 90° BEND
- 45° BEND
- 22.5° BEND
- 11.25° BEND
- TAPPING SLEEVE
- WATER VALVE
- FIRE HYDRANT
- STORTZ FDC
- WATER PLUG
- ELECTRIC TRANSFORMER
- ELECTRIC PULL BOX
- SIGN

SITE DIMENSION LEGEND

- (A) LANDSCAPE AREAS (SEE CONTEXT PLANS)
- (B) STRUCTURE FOUNDATION – PER BUILDING PLANS
- (C) STRAIGHT CONCRETE CURB (SEE DETAIL–SHEET 1000)
- (C1) SLOPED CONCRETE CURB (SEE DETAIL–SHEET 1000)
- (D) CONCRETE SIDEWALK (SEE CONTEXT PLANS)
- (D1) INTEGRAL CONCRETE CURB AND SIDEWALK (SEE CONTEXT PLANS)
- (D2) FLUSH INTEGRAL CONCRETE CURB AND SIDEWALK (SEE DETAIL–SHEET 1000)
- (F) A.D.A. CURB RAMP (SEE DETAIL–SHEET 1000)
- (G) TYPICAL CONCRETE SECTION
  6" PORTLAND CEMENT CONCRETE PAVEMENT ON
  6" COMPACTED AGGREGATE #53 ON
  COMPACTED SUBGRADE (SEE DETAIL–SHEET 1000)
- (J) SAWCUT
- (K) TYPICAL LIGHT DUTY ASPHALT SECTION
  1.5" HMA SURFACE 9.5mm, ON
  3" HMA INTERMEDIATE 19.0mm, ON
  6" COMPACTED AGGREGATE #53, ON
  COMPACTED SUBGRADE (SEE DETAIL–SHEET 1000)
- (K1) TYPICAL LIGHT DUTY ASPHALT SECTION OVER DETENTION SECTION
  1.5" HMA SURFACE 9.5mm, ON
  3" HMA INTERMEDIATE 19.0mm, ON
  VARIABLE DEPTH COMPACTED AGGREGATE #53, ON
  GEOTEXTILE FABRIC OVER UNDERGROUND DETENTION
  (SEE DETAIL–SHEET 1000)
- (K2) TYPICAL HEAVY DUTY ASPHALT SECTION
  1.5" HMA SURFACE 9.5mm, ON
  4" HMA INTERMEDIATE 19.0mm, ON
  8" COMPACTED AGGREGATE #53, ON
  COMPACTED SUBGRADE (SEE DETAIL–SHEET 1000)
- (L) CONCRETE WHEEL STOP (SEE DETAIL–SHEET 1000)
- (O) BOLLARD (SEE CONTEXT PLANS)
- (P) TYPICAL ASPHALT PATH SECTION
  1" HMA SURFACE 9.5mm, ON
  2" HMA INTERMEDIATE 19.0mm, ON
  6" COMPACTED AGGREGATE #53, ON
  COMPACTED SUBGRADE (SEE DETAIL – SHEET 1000)
- (R) TYPICAL ASPHALT WEDGE & LEVEL SECTION
  1.5" HMA SURFACE 9.5mm, ON
  VARIABLE DEPTH HMA INTERMEDIATE 19.0mm WEDGE, ON
  EXISTING ASPHALT MILLED 1" (SEE DETAIL–SHEET 1000)
- (S) CONCRETE STEPS & HANDRAIL (SEE CONTEXT PLANS)
- (T) CONCRETE CURB TURNOUT (SEE DETAIL–SHEET 1003)
- (W) SEAT WALL (SEE CONTEXT PLANS)
- (1) LINE, PAINTED, SOLID WHITE, 4"
- (2) LINE, PAINTED, SOLID BLUE, 4"
- (3) A.D.A. SYMBOL, PAINTED, SOLID BLUE, 4"
  (SEE DETAIL–SHEET 1003)
- (4) SIGNAGE (SEE DETAIL–SHEET 1003)
- (5) LINE, PAINTED, SOLID YELLOW, 4"

ROW/EASEMENT TOWN OF WHITELAND BK 240 PG 948

GAS EASEMENT INDIANA GAS & WATER COMPANY, INC. BK 142 PG 542

UNITED TELEPHONE COMPANY OF INDIANA INC. BK 196 PG 363

EXISTING HIGH SCHOOL

BUTT JOINT

INSTALL 8" THICK CONCRETE SLAB (18" MIN. WIDTH BEYOND CASTING FRAME) IN ACCORDANCE WITH MANUFACTURER'S DETAILS

SEE SITE DIMENSION NOTE #10

CONTRACTOR STAGING AND FIELD OFFICE AREA. CONFIRM LOCATION WITH OWNER PRIOR TO CONSTRUCTION

PROPOSED ±83,834 SQ. FT. BUILDING ADDITION

INSTALL AQUA-SWIRL MANHOLE FRAME, COVER, AND CONCRETE PAD PER MANUFACTURER'S DETAILS FOR TRAFFIC LOADING AREAS

EXISTING UNDERGROUND DETENTION SYSTEM TO REMAIN IN PLACE. CONTRACTOR SHALL PRESERVE AND PROTECT PER SITE DIMENSION NOTES

MATCHLINE - SEE SHEET 302

APPARENT EX. RIGHT-OF-WAY

PERMANENT CONSTRUCTION FENCE INSTALLED IN PHASE 1A TO REMAIN IN PLACE FOR DURATION OF PHASE 1 CONSTRUCTION

20' WATER EASEMENT INDIANA AMERICAN WATER INSTR. #2023009695

WHITELAND ROAD/MAIN STREET

DIRECTORY PATH : R:\Active\Lance+Rieke\Whiteland High School\Design\CAD\Plans\PHASE 1
FILENAME : 301 SITE DIMENSION PLAN.dwg
DATE/USER : 9/6/2023 12:33 PM / KTopp

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

SHEET 301

SITE DIMENSION PLAN

WHITELAND HIGH SCHOOL PHASE 1

JOB No.	.	DRAWN	KLF	CHECKED	TEN	APPR.	GJI
DATE	JULY 5, 2023	DESIGNED	DMS	DRAWN	DMS	CHK'D	GJI

REGISTERED DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY	APPR.
1	07.28.23	REVISIONS PER WHITELAND TAC COMMENTS; 100% CONSTRUCTION DOCUMENT	DMS	GJI
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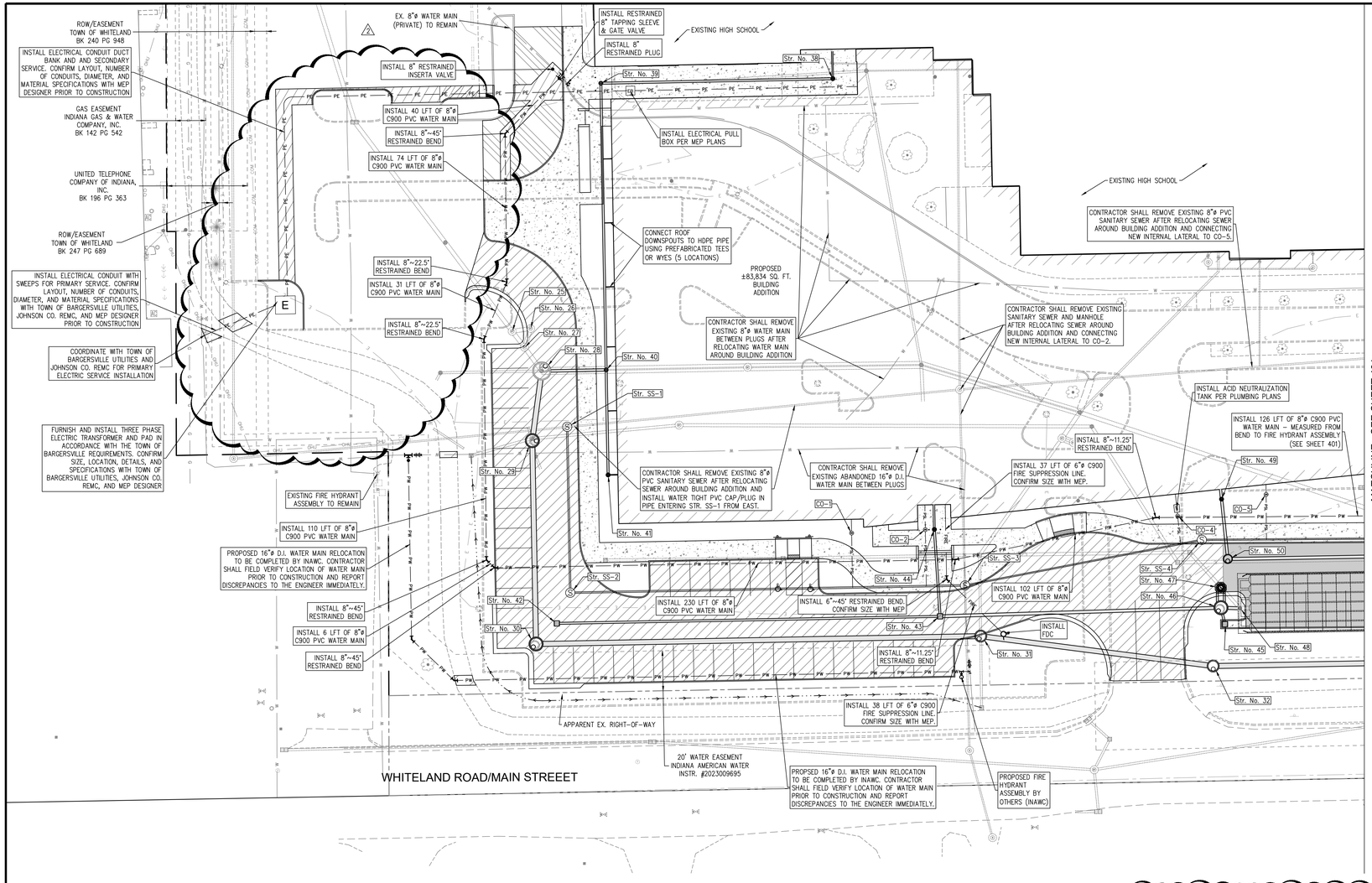
SHEET 301



PROPOSED LEGEND

- PROPERTY LINE
- SECTION LINE
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- SETBACK LINE
- EASEMENT LINE
- FENCE LINE
- DITCH LINE
- SANITARY SEWER WITH MANHOLE
- SANITARY SEWER LATERAL WITH CLEANOUT
- STORM SEWER W/MANHOLE & END SECTION
- ELECTRIC LINE
- WATER LINE
- FIRE SUPPRESSION LINE
- STORM INLETS
- STORM CURB INLETS
- AQUA-SWIRL UNITS
- WATER TEE
- 90° BEND
- 45° BEND
- 22.5° BEND
- 11.25° BEND
- TAPPING SLEEVE
- WATER VALVE
- FIRE HYDRANT
- STORTZ FDC
- WATER PLUG
- E — ELECTRIC TRANSFORMER
- EB — ELECTRIC PULL BOX
- SIGN

EXISTING LEGEND

- POWERPOLE
- POWERPOLE W/RISER
- POWERPOLE W/LIGHT
- LIGHT POLE
- ELECTRIC METER
- ELECTRIC BOX
- YARD LIGHT
- GUIDE WIRE
- TELEPHONE MANHOLE
- TELEPHONE RISER
- WATER VALVE
- FIRE HYDRANT
- WATER MANHOLE
- WATER METER
- GAS VALVE
- GAS METER
- CABLE TV RISER
- FIBER OPTIC BOX
- CLEANOUT
- SIGN
- STORM ROUND INLET
- STORM CURB INLET
- RIGHT-OF-WAY MARKER
- TREE, BUSH & STUMP
- TEMP. BENCHMARK
- CONTOURS
- PROPERTY LINE
- SECTION LINE
- RIGHT-OF-WAY
- EASEMENT
- ADJOINER LINE
- PAVEMENT LINE
- FIELD LINE
- PRIVACY FENCE
- CHAINLINK FENCE
- SPLIT RAIL FENCE
- DITCH
- FIBER OPTIC LINE
- GAS LINE
- TELEPHONE LINE
- WATER LINE
- CABLE TV LINE
- ELECTRIC LINE
- OVERHEAD UTILITY LINE
- TREE LINE
- SANITARY SEWER W/MANHOLE
- STORM SEWER W/ MANHOLE & END SECTION
- (D) DEED (M) MEASURE (PS) PLAT SURVEY
- ASPHALT
- BUILDING
- CONCRETE
- GRAVEL

EXISTING STORM SEWER STRUCTURE TABLE

STR. DATA

STR. NO. 25
EXISTING STORM MANHOLE RECONSTRUCT TO GRADE (EX. RIM=797.92) PROP. RIM=799.43
INV IN (24"~NW)=794.07
INV OUT (24"~SE)=794.07
INV OUT (18"~E)=794.07

STR. NO. 26
EXISTING AQUA-SWIRL WATER QUALITY UNIT RECONSTRUCT TO GRADE (EX. RIM=797.66) PROP. RIM=798.89
INV IN (18"~W)=794.06
INV OUT (18"~S)=794.06

STR. NO. 27
EXISTING STORM MANHOLE RECONSTRUCT TO GRADE (EX. RIM=797.64) PROP. RIM=798.96
INV IN (24"~NW)=794.04
INV IN (18"~W)=794.04
INV OUT (24"~SE)=794.04

STORM SEWER STRUCTURE TABLE

STR. DATA

STR. NO. 28
INSTALL TYPE 'L' MANHOLE WITH NEENAH CASTING R-3405-A OR AN APPROVED EQUAL AND
35 LFT OF 30"ø PP PIPE @ 0.46%
RIM=798.76
INV IN (12"~W)=793.98
INV IN (24"~NW)=794.00
INV IN (15"~E)=794.62
INV OUT (30"~S)=793.50

STR. NO. 29
INSTALL TYPE 'K' MANHOLE WITH NEENAH CASTING R-1772 OR AN APPROVED EQUAL AND
102 LFT OF 30"ø PP PIPE @ 0.47%
RIM=799.25
INV IN (30"~N)=793.34
INV IN (15"~W)=794.78
INV OUT (30"~S)=793.34

STR. NO. 30
INSTALL TYPE 'K' MANHOLE WITH NEENAH CASTING R-1772 OR AN APPROVED EQUAL AND
222 LFT OF 30"ø PP PIPE @ 0.47%
RIM=799.24
INV IN (30"~N)=792.86
INV OUT (30"~E)=792.86

STR. NO. 31
INSTALL TYPE 'J' MANHOLE WITH NEENAH CASTING R-1772 OR AN APPROVED EQUAL AND
117 LFT OF 30"ø PP PIPE @ 0.90%
RIM=799.98
INV IN (30"~W)=791.82
INV IN (15"~S)=794.40
INV OUT (30"~E)=791.82

STORM SEWER STRUCTURE TABLE

STR. DATA

STR. NO. 32
INSTALL TYPE 'J' MANHOLE WITH NEENAH CASTING R-1772 OR AN APPROVED EQUAL AND
238 LFT OF 30"ø PP PIPE @ 0.90%
RIM=797.75
INV IN (30"~W)=790.77
INV OUT (30"~E)=790.77

STR. NO. 38
INSTALL 12" NYLOPLAST DRAIN WITH H-10 PEDESTRIAN GRATE AND 116 LFT OF 12"ø VARIABLE RISER HEIGHT DURASLOT HDPE PIPE @ 0.30%
RIM=801.54
INV IN (8"~N)=798.10
INV OUT (12"~W)=797.94

STR. NO. 39
INSTALL 15" NYLOPLAST DRAIN WITH H-10 SOLID COVER AND
143 LFT OF 12"ø HDPE PIPE @ 1.70%
RIM=801.54
INV IN (12"~E)=797.59
INV OUT (12"~S)=797.59

STR. NO. 40
INSTALL 18" NYLOPLAST DRAIN WITH SOLID COVER AND
32 LFT OF 15"ø HDPE PIPE @ 0.90%
RIM=800.61
INV IN (12"~N)=795.16
INV IN (12"~S)=797.00
INV OUT (15"~W)=794.91

STORM SEWER STRUCTURE TABLE

STR. DATA

STR. NO. 41
INSTALL 12" NYLOPLAST DRAIN WITH SOLID COVER AND
53 LFT OF 12"ø SCH 40 PVC PIPE @ 0.48%
RIM=800.81
INV IN (4"~E)=797.92
INV OUT (12"~N)=797.25

STR. NO. 42
INSTALL TYPE 'E' INLET WITH NEENAH R-3405-A CASTING OR AN APPROVED EQUAL AND
192 LFT OF 12"ø HDPE PIPE @ 0.30%
RIM=799.08
INV OUT (12"~E)=795.41

STR. NO. 43
INSTALL TYPE 'F' INLET WITH NEENAH R-3405-A CASTING OR AN APPROVED EQUAL AND
140 LFT OF 18"ø HDPE PIPE @ 0.19%
RIM=799.08
INV IN (12"~W)=794.84
INV IN (12"~N)=795.50
INV OUT (18"~E)=794.34

STR. NO. 44
INSTALL 12" NYLOPLAST DRAIN WITH H-10 SOLID COVER AND
44 LFT OF 12"ø HDPE PIPE @ 1.10%
RIM=801.50
INV IN (10"~N)=797.70
INV OUT (12"~S)=795.98

STORM SEWER STRUCTURE TABLE

STR. DATA

STR. NO. 45
INSTALL TYPE 'E' INLET WITH NEENAH R-4215-C CASTING OR AN APPROVED EQUAL AND
8 LFT OF 12"ø HDPE PIPE @ 0.35%
RIM=797.90
INV OUT (12"~N)=794.24

STR. NO. 46
INSTALL MODIFIED TYPE 'K' MANHOLE FOR WATER QUALITY DIVERSION STRUCTURE WITH NEENAH R-1772 CASTING OR AN APPROVED EQUAL AND
10 LFT OF 18"ø HDPE PIPE @ 0.31%
10 LFT OF 12"ø HDPE PIPE @ 0.80%
RIM=798.75
INV IN (18"~W)=794.07
INV IN (12"~N)=793.90
INV IN (12"~S)=794.21
INV OUT (18"~E)=793.91
INV OUT (12"~N)=794.06

STR. NO. 47
INSTALL PCS AQUA-SWIRL AS-4 IN OFFLINE HORSESHOE CONFIGURATION WITH
10 LFT OF 12"ø HDPE PIPE @ 0.80%
RIM=798.60
INV IN (12"~S)=793.98
INV OUT (12"~S)=793.98

STR. NO. 48
MECHANICALLY CORE EXISTING STORM MANHOLE AND CONNECT NEW 18" STORM SEWER. INSTALL NEENAH R-1772 CASTING OR AN APPROVED EQUAL

RIM=798.80
INV IN (18"~W)=793.88
INV IN (12"~S)=793.63
INV IN (12"~N)=793.93
INV OUT (24"~E)=793.88

STORM SEWER STRUCTURE TABLE

STR. DATA

STR. NO. 49
INSTALL 15" NYLOPLAST DRAIN WITH SOLID COVER AND
30 LFT OF 15"ø HDPE PIPE @ 1.99%
RIM=800.74
INV IN (14"~N)=796.70
INV OUT (15"~S)=794.65

STR. NO. 50
INSTALL TYPE 'C' MANHOLE WITH NEENAH CASTING R-1772 OR AN APPROVED EQUAL AND
102 LFT OF 18"ø HDPE PIPE @ 1.00%
RIM=798.76
INV IN (15"~N)=794.05
INV OUT (18"~E)=793.80

NOTE: STR. NO. 46 SHALL HAVE A 24" SUMP

SANITARY SEWER STRUCTURE TABLE

STR. DATA

STR. NO. SS-1
INSTALL SANITARY DOGHOUSE MANHOLE WITH NEENAH R-1772 CASTING OR AN APPROVED EQUAL AND
83 LFT OF 10"ø SDR-35 PVC PIPE @ 0.37%

RIM=799.26
INV IN (10"~W)=791.57
INV OUT (10"~S)=791.47
INV OUT (10"~E)=791.57

STR. NO. SS-2
INSTALL SANITARY MANHOLE WITH NEENAH R-1772 CASTING OR AN APPROVED EQUAL AND
197 LFT OF 10"ø SDR-35 PVC PIPE @ 0.39%
RIM=799.24
INV IN (10"~W)=791.16
INV OUT (10"~E)=791.06

STR. NO. SS-3
INSTALL SANITARY DOGHOUSE MANHOLE WITH NEENAH R-1772 CASTING OR AN APPROVED EQUAL

RIM=799.92
INV IN (10"~W)=790.30
INV IN (10"~N)=790.20
INV IN (8"~E)=790.20
INV OUT (10"~S)=790.20

STR. NO. SS-4
INSTALL SANITARY MANHOLE WITH NEENAH R-1772 CASTING OR AN APPROVED EQUAL AND
121 LFT OF 8"ø SDR-35 PVC PIPE @ 0.40%
RIM=799.50
INV IN (8"~E)=790.68
INV OUT (8"~W)=790.68

SANITARY SEWER LATERAL TABLE
INSTALL SANITARY CLEANOUT AND SDR 35 PVC LATERAL.
MINIMUM SLOPE SHALL BE 1.04% UNLESS NOTED OTHERWISE BELOW.

RUN	CLEANOUT TYPE	DIAMETER	LENGTH	SLOPE	U.S. INV.
ANT	Neutralization Tank	6"	4'	2.05%	798.28
1	TYPE 1	10"	27'	2.02%	795.20
2	TYPE 2	8"	28'	1.13%	790.70
4	TYPE 1	6"	14'	2.00%	798.20
5	TYPE 1	6"	22'	2.00%	796.70

1

UTILITIES NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND PROVIDING ALL NECESSARY FLAGMAN, BARRELS, SIGNAGE, ETC. DURING CONSTRUCTION. ALL APPLICABLE M.U.T.C.D. STANDARDS SHALL GOVERN THIS WORK.
2. CONTRACTOR SHALL REFER TO THE ELECTRICAL SITE PLAN PREPARED BY PRIMARY ENGINEERING, INC. FOR PARKING LOT LIGHTING AND SPECIFICATIONS.
3. ALL STORM SEWER CASTINGS SHALL BE NPDES PHASE II COMPLIANT. CASTINGS SHALL BE MANUFACTURED WITH A STATEMENT SAYING: "DUMP NO WASTE, DRAINS TO RIVER" IN ½" RAISED LETTERS.
4. ALL FIELD TILES DISTURBED DURING CONSTRUCTION MUST BE REPAIRED/CONNECTED TO NEW STORMWATER FACILITIES.
5. CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING UNDERGROUND STORMWATER DETENTION CHAMBERS DURING THE ENTIRE DURATION OF THE PROJECT. CONTRACTOR SHALL COORDINATE WITH ADVANCED DRAINAGE SOLUTIONS, INC. (ADS) TO DETERMINE THE MINIMUM COVER REQUIRED OVER THE EXISTING CHAMBERS DURING CONSTRUCTION, AS WELL AS, THE APPROPRIATE EQUIPMENT AND OPERATIONS TO PROTECT THE CHAMBERS.
6. WATER MAIN INSTALLATION AND MATERIALS SHALL CONFORM TO THE TOWN OF WHITELAND TYPICAL CONSTRUCTION GUIDELINES AND DETAILS.
7. TAPPING SLEEVES AND VALVES SHALL BE EJP OR MUELLER H-615, H-616 OR STAINLESS STEEL SLEEVES. TAPPING VALVES SHALL BE 2360 SERIES BY MEUller OR AFC 2500.
8. FIRE HYDRANT ASSEMBLIES SHALL BE SUPER CENTURION 250 HYDRANT BY MEULLER CO. WITH STORZ FITTING ON STEAMER WITH 5'~6" MIN. BURIAL DEPTH.
9. ALL FITTINGS SHALL BE DUCTILE IRON (D.I.) WITH MECHANICAL JOINTS (M.J.) CONFORMING TO AWWA C-110, C-111, C-153, AND NSF-61. ALL WATER MAIN FITTINGS SHALL BE RESTRAINED IN ACCORDANCE WITH THE TOWN OF WHITELAND TYPICAL CONSTRUCTION GUIDELINES AND DETAILS.
10. MEC-A-LUG RETAINER GLANDS BY EBBA IRON, INC. , FIELD-LOK GASKETS, OR ONE BOLT RESTRAINED FITTINGS SHALL BE USED ON EACH SIDE OF FITTINGS WHERE THE WATER MAIN CHANGES DIRECTION.
11. CONTRACTOR SHALL COORDINATE CONSTRUCTION SEQUENCE WITH THE OWNER AND SKILLMAN CORPORATION AND MAINTAIN ACTIVE UTILITY SERVICES AT ALL TIMES. ALL TEMPORARY UTILITY SERVICE INTERRUPTIONS MUST BE APPROVED BY THE OWNER AND SKILLMAN CORPORATION PRIOR TO INSTALLATION OF IMPROVEMENTS.
12. EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.
13. CONTRACTOR SHALL CONNECT ROOF DRAINS TO STR. NO. 38, 44, 49, 51, AND 58 AS SHOWN. CONFIRM ROOF DRAIN LOCATIONS, DIAMETERS, AND INVERT ELEVATIONS EXITING THE BUILDING WITH THE MEP PLANS PRIOR TO CONSTRUCTION.
14. CONTRACTOR SHALL CONFIRM SANITARY LATERAL LOCATIONS, DIAMETERS, AND INVERT ELEVATIONS EXITING THE BUILDING WITH THE MEP PLANS PRIOR TO CONSTRUCTION.

INDIANA 811 Dig to you. Know what's below. Call before you.

DIRECTORY PATH : R:\Active\Lawson-Reeb\Whiteland High School\Design\CAD\Plans\PHASE 1
FILENAME : 400 UTILITY PLAN.dwg
DATE/USER : 9/6/2023 1:51 PM / Dsnyder

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

SHEET 400

UTILITY PLAN

WHITELAND HIGH SCHOOL PHASE 1

JOB No. . | DRAWN KLF | CHECKED TEN | APPR. GJI
DATE JULY 5, 2023 | DESIGNED DMS | DRAWN DMS | CHK'D GJI | APPR.

REVISIONS

NO.	DATE	BY
1	09.06.23	GJI
2	08.30.23	GJI
	07.28.23	GJI

REVISIONS PER WHITELAND TAC COMMENTS; 100% CONSTRUCTION DOCUMENT
REVISIONS PER ADDENDUM NO. 001
REVISIONS PER ADDENDUM NO. 002

REGISTERED ENGINEER DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL

SHEET 400

GRADING LEGEND

860.00 TOP OF CURB 859.50 EDGE OF PAVEMENT	PROPOSED ELEVATIONS
860.00 FINISH GRADE	PROPOSED ELEVATIONS (TO BE FIELD VERIFIED)
860.00 * 859.50 *	
860.00 *	
FFE = XXX.XX	PROPOSED FINISH FLOOR ELEVATION
PE = XXX.XX	PROPOSED PAD ELEVATION
	PROPOSED DRAINAGE SWALE
800	EXISTING CONTOURS
800	PROPOSED CONTOURS
GRADE BREAK	GRADE BREAK
	CURB HEIGHT TO TAPER FROM 0.5' TO 0.0' IN 6 LFT.

GRADING NOTES

1. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING IN FINAL GRADING OF SITE. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT TO DETERMINE PROPER FOUNDATION EXPOSURE, HOWEVER, IN NO INSTANCE SHALL DRAINAGE TOWARDS THE BUILDING FOUNDATION BE ALLOWED.
2. CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING UNDERGROUND STORMWATER DETENTION CHAMBERS DURING THE ENTIRE DURATION OF THE PROJECT. CONTRACTOR SHALL COORDINATE WITH ADVANCED DRAINAGE SOLUTIONS, INC. (ADS) TO DETERMINE THE MINIMUM COVER REQUIRED OVER THE EXISTING CHAMBERS DURING CONSTRUCTION, AS WELL AS, THE APPROPRIATE EQUIPMENT AND OPERATIONS TO PROTECT THE CHAMBERS.
3. THE FINISHED FLOOR ELEVATIONS (F.F.E.) SHOWN HEREON CORRESPOND TO EXISTING FINISHED FLOOR ELEVATIONS OF THE HIGH SCHOOL AND THE PROPOSED ELEVATIONS OF THE ADDITIONS AT THE EXTERIOR BUILDING ENTRIES WHICH ARE LABELED `T/SLAB=0'-0"` FOR UNITS 'J', 'K', 'L' AND 'M' AND `T/SLAB=+0'-5"` FOR UNIT 'A' ON THE FOUNDATION PLANS. CONTRACTOR SHALL CONFIRM THE EXISTING FINISHED FLOOR ELEVATIONS PRIOR TO CONSTRUCTION AND REFER TO THE ARCHITECTURAL AND STRUCTURAL PLANS FOR INTERNAL CHANGES TO THE PROPOSED FINISHED FLOOR ELEVATION, CONCRETE SLAB AND STONE SUBBASE THICKNESS, SLAB SLOPES, ELEVATOR PIT ELEVATIONS, AND SWIMMING POOL ELEVATIONS.

BENCHMARK INFORMATION

ORIGINATING BENCHMARK

DESIGNATION – X 13
PID – KA0010
STATE/COUNTY – IN/MORGAN
USGS QUAD – MOORESVILLE EAST (1980)

VERT ORDER – FIRST CLASS II

DESCRIBED BY COAST AND GEODETIC SURVEY 1946
1.2 MI N FROM WAVERLY.
IN JOHNSON COUNTY, 1.2 MILES NORTH ALONG STATE HIGHWAY 37 FROM THE INTERSECTION OF STATE HIGHWAY 144 AT WAVERLY, MORGAN COUNTY, 125 YARDS NORTH OF THE MORGAN–JOHNSON COUNTY LINE, 26 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, IN LINE WITH THE WEST RIGHT–OF–WAY FENCE, 1.5 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND ABOUT 2 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED 686.370 X 13 1930 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 7 INCHES ABOVE GROUND.

RECOVERY NOTE BY IN DEPT OF NAT RES 1985
NEW DESC– AT THE INTERSECTION OF NEW STATE ROAD 144 AND OLD STATE ROAD 37, IN THE SOUTHWEST QUARTER OF THE INTERSECTION, WITNESS POST IS GONE RIGHT–OF–WAY FENCE IS GONE, ALL OTHER INFORMATION APPEARS TO BE CORRECT.

ELEVATION = 685.94 (NAVD 88)

TBM #400
RR SPIKE SET IN E FACE OF PP# "P21063" LOCATED ±180' N OF "TRACT NORTH DRIVE" ±40' WEST OF "SAINT CHARLES WAY"
ELEV.=805.77

TBM #401
RR SPIKE SET IN E FACE OF PP# "P21042" LOCATED ±6' W OF "TRACY ST." ±40' S OF N PARKING LOT ENTRANCE @ "CLARK PLEASANT EMPLOYEE HEALTH & WELLNESS CENTER"
ELEV.=805.07

TBM #402
CUT BOX ON TOP OF CONC PEDESTAL FOR UP ON N EDGE OF CONC. LOCATED @ NE MOST CORNER OF PARKING LOT FOR "199 US–31 "BIG SPLASH CAR WASH"
ELEV.=806.18

TBM #403
SE MOST CORNER OF BOTTOM CONC STEP LOCATED @ SE CORNER OF "STUDIO 31 SALON" "43 N. US–31" ON E FACE OF BUILDING.
ELEV.=801.28

TBM #404
NE CORNER OF TOP CONC STEP CONNECTED TO LEAD WALK @ "239 E MAIN ST." LOCATED SE QUAD OF "E MAIN ST." & "TICHENOR LN."
ELEV.=799.80

TBM #405
RR SPIKE SET IN E FACE POWERPOLE, LOCATED ±5' S OF "E MAIN ST." & ±XX W OF DRIVE @ "399 E MAIN ST."
ELEV.=790.98

TBM #406
SW CORNER OF CONC PORCH @ "49 CENTER ST."
ELEV.=797.61

TBM #407
RR SPIKE SET IN S FACE OF PP# "P22C73". LOCATED ±5' E OF "CENTER ST." & ±150' N OF "CLEM ST."
ELEV.=800.07

TBM #408
RR SPIKE SET IN E FACE OF POWER POLE. LOCATED @ SW CORNER OF PROPERTY OF "329 CHRISTINA DR."
ELEV.=800.89

EXISTING HIGH SCHOOL

INSTALL 1 STEP W/ 5" RISER

INVERTED CROWN

PROPOSED ±83,834 SQ. FT. BUILDING ADDITION

EXISTING UNDERGROUND DETENTION SYSTEM TO REMAIN IN PLACE. CONTRACTOR SHALL PRESERVE AND PROTECT PER GRADING NOTES

PROP. FFE = 801.70 ⚠1

INSTALL STEPS W/(3) 5" RISERS AND (2) 12" TREAD

GRADE BREAK

INSTALL 140 LFT OF SWALE @ 1.00%

INSTALL 221 LFT OF SWALE @ 1.01%

APPARENT EX. RIGHT–OF–WAY

WHITELAND ROAD/MAIN STREET

TBM #404

MATCHLINE - SEE SHEET 501

SCALE: 1" = 20'

DIRECTORY PATH : R:\Active\Larson-Reed\Whiteland High School\Design\CAD\Plans\PHASE 1
FILENAME : 500 GRADING PLAN.dwg
DATE/USER : 9/6/2023 2:05 PM / KKrog

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

SHEET 500

GRADING PLAN

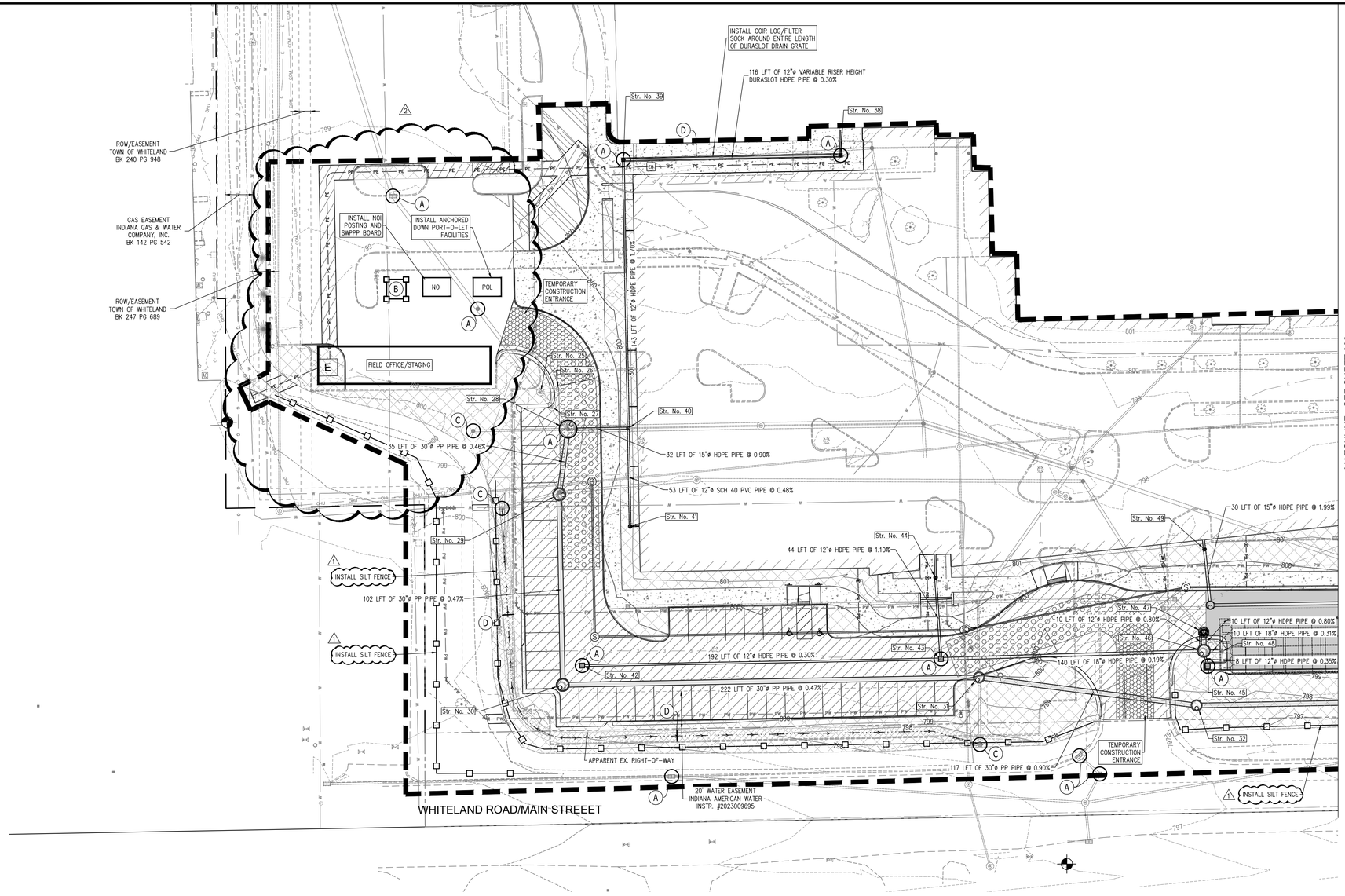
WHITELAND HIGH SCHOOL PHASE 1

JOB No.	.	CHECKED	TEN	APPR.	GJI
DRAWN	KLF				
DESIGNED	DMS				
DATE	JULY 5, 2023				

DEREK M. SNYDER
NO. 11200008
STATE OF INDIANA
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY	APPR.
⚠1	09.06.23	REVISIONS PER ADDENDUM NO. 002	DMS	GJI
⚠1	08.30.23	REVISIONS PER ADDENDUM NO. 001	DMS	GJI
	07.28.23	REVISIONS PER WHITELAND TAC COMMENTS, 100% CONSTRUCTION DOCUMENT	DMS	GJI

SHEET 500



30 0 30 60

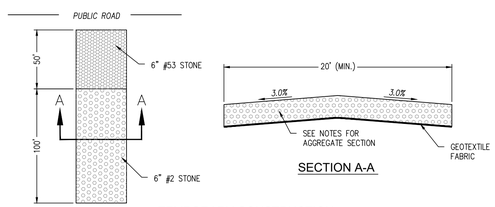
SCALE: 1" = 30'

EXISTING CONTOUR INTERVAL = 1'
PROPOSED CONTOUR INTERVAL = 1'

ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, CITY OR COUNTY OFFICIALS

NOTE:
NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

INDIANA 811 Know What's Below. Call Before You Dig



TEMPORARY CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE

EROSION CONTROL LEGEND

- MULCHED SEEDING
- EROSION CONTROL BLANKET (NORTH AMERICAN GREEN SC-150 OR EQUAL) AND MULCHED SEEDING
- TEMPORARY CONSTRUCTION ENTRANCE (SEE DETAIL-SHEET 901)
- 800 — EXISTING CONTOURS
- 800 — PROPOSED CONTOURS
- SILT FENCE SLOPE CHECK (NUTEC 3 NWS-6 OR APPROVED EQUAL)
- CONSTRUCTION LIMITS
- (A) CURB INLET PROTECTION (SEE DETAIL-SHEET 900)
- (B) CONCRETE WASHOUT AREA (SEE DETAIL-SHEET 900)
- (C) FABRIC DROP INLET PROTECTION (SEE DETAIL-SHEET 900)
- (D) COIR LOG/FILTER SOCK (SEE DETAIL-SHEET 900)

EROSION CONTROL NOTES

1. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, COUNTY, OR LOCAL OFFICIALS.
2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.
3. THERE SHALL BE NO DIRT, DEBRIS, OR STORAGE OF MATERIALS WITHIN EXISTING OR PROPOSED PARKING AREAS OR PUBLIC RIGHT-OF-WAY.
4. CONSTRUCTION STAGING AREA (TO BE DETERMINED BY CONTRACTOR) SHALL INCLUDE THE NOI POSTING, PORT-O-LETS, TRASH CONTAINERS, AND FUELING TANKS. CONTRACTOR SHALL NOT LOCATE STAGING AREA WITHIN PROPOSED PARKING LOTS.
5. A TRAINED INDIVIDUAL MUST PERFORM AN INSPECTION ONCE A WEEK AND AFTER EVERY ½" OR MORE RAIN EVENT. A LOG OF THE INSPECTION REPORTS MUST BE KEPT AND MADE AVAILABLE TO THE TOWN INSPECTOR UPON REQUEST.
6. SOIL STOCKPILE LOCATION SHALL BE DETERMINED BY CONTRACTOR IN COORDINATION WITH THE OWNER AND SKILLMAN CORPORATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL NECESSARY EROSION CONTROL MEASURES AT STOCKPILE LOCATION INCLUDING BUT NOT LIMITED TO SILT FENCE, INLET PROTECTION, AND CONTRUCTION ENTRANCES.

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

SHEET 901

EROSION CONTROL PLAN

WHITELAND HIGH SCHOOL PHASE 1

JOB No.	.	DRAWN	KLF	CHECKED	TEN	APPR.	GJI
DATE	JULY 5, 2023	DESIGNED	DMS			APPR.	GJI

REVISIONS

NO.	DATE	BY	APPR.
1	09.06.23	DMS	GJI
REVISIONS PER ADDENDUM NO. 001			
2	08.30.23	DMS	GJI
REVISIONS PER ADDENDUM NO. 002			
	07.28.23	DMS	GJI
REVISIONS PER WHITELAND TAC COMMENTS, 100% CONSTRUCTION DOCUMENT			

DEREK M. SNYDER REGISTERED NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET 901

DIRECTORY PATH : R:\Active\Larson-Reibel\Whiteland High School\Design\CAD\Plans\PHASE 1
FILENAME : 901 EROSION CONTROL PLAN.dwg
DATE/USER : 9/6/2023 1:20 PM / KTigg

ADDENDUM

ADDENDUM NO: 2

PROJECT: Whiteland HS Phase 1b

PROJECT NO: 21-1437 DATE: September 6, 202 BY: Cameron Hull

This Addendum is issued in accordance with the provisions of "The General Conditions of the Contract for Construction," Article 1, "Contract Documents" and becomes a part of the Contract Documents as provided therein. This Addendum includes:

Addendum Pages: ADD 1 of 2 through ADD 2 of 2

Attached Documents: Quote Form (Addendum 1); 11 68 00 PLAYGROUND EQUIPMENT; BREAK-O-DAY ES L101 MATERIALS AND NOTES PLAN

PART 0 - GENERAL INFORMATION

PART 1 - BIDDING REQUIREMENTS

PART 2 - SPECIFICATIONS

PART 3 - DRAWINGS

3.1 L101 MATERIALS PLAN

A. Materials Keynotes updated to clarify detail references.

3.2 L102 MATERIALS PLAN

A. Materials Keynotes updated to clarify detail references.

3.3 L602 SITE DETAILS

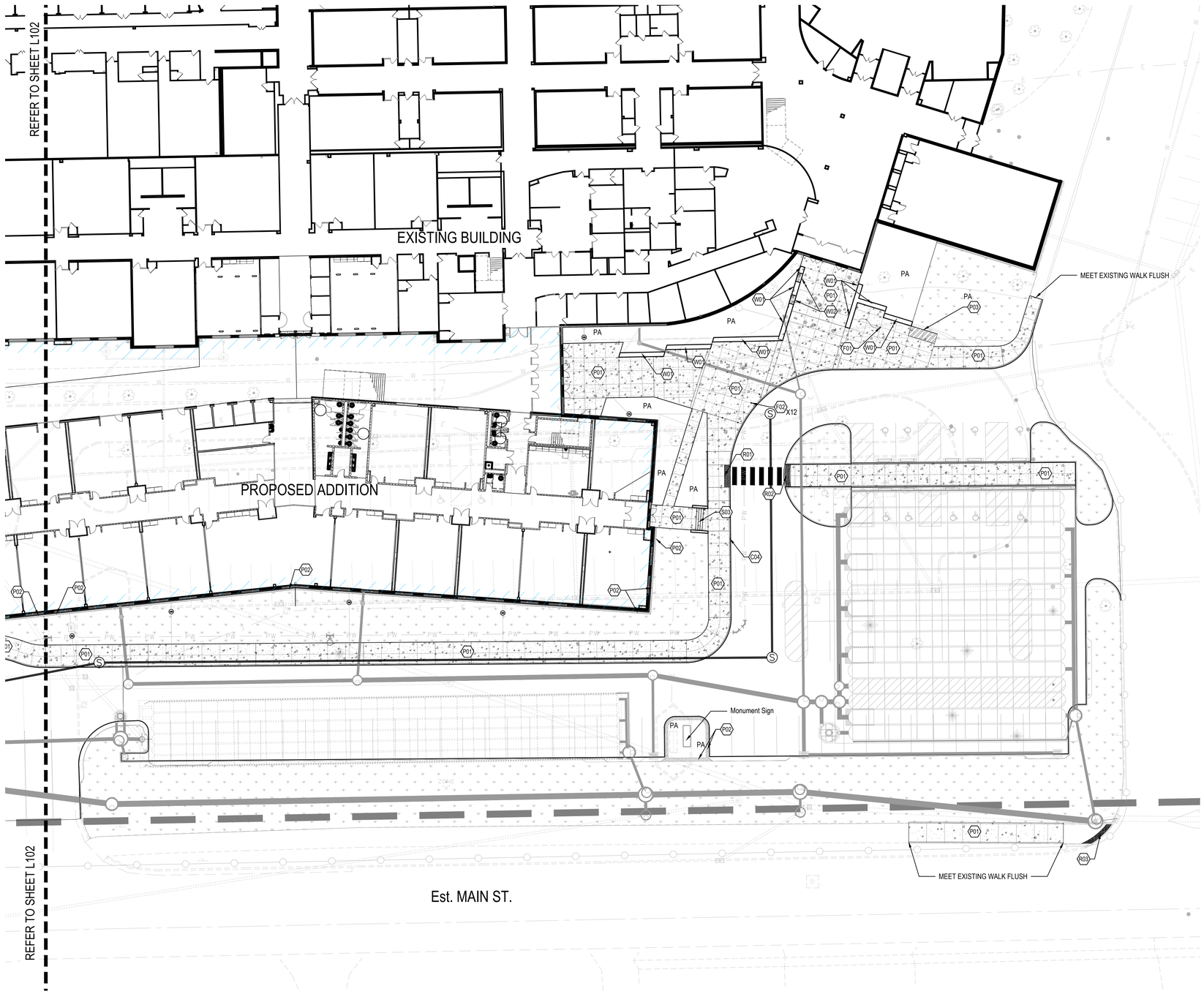
A. Detail 2 updated to clarify riser height,

B. Detail 3 updated to clarify riser height.

PART 4 - QUESTION AND ANSWER

END ADDENDUM

PEOPLE+LAND 5825 Lawton Loop East Drive | Indianapolis, IN 46216 | 317-485-6900 | www.context-design.com



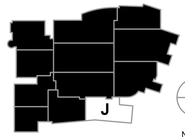
	MATERIAL KEYNOTES
KEY	DESCRIPTION / REFERENCE
P01	CONCRETE, TYPE 01 REFER TO SITE DETAILS 1,2,3,4/L601
P02	MAINTENANCE EDGE, 1'-0" REFER TO TO SITE DETAILS 7/L601
P03	CONCRETE, HEAVY DUTY, 6", WITH REBAR REFER TO SITE DETAILS 6/L601
S01	STAIR & RAILING; 1 STEP REFER TO SITE DETAILS 1,4,5/L602
S02	STAIR & RAILING; 3 STEPS REFER TO SITE DETAILS 3,4,5/L602
S03	STAIR & RAILING; 4 STEPS REFER TO SITE DETAILS 2,4,5/L602
W01	WALL, 2'-0" WIDE SEAT WALL, TYPE 01 REFER TO SITE DETAIL 6/L602
W02	WALL, 2'-0" WIDE SEAT WALL, TYPE 02 REFER TO SITE DETAIL 7/L602
R01	ADA RAMP, TYPE 01 SIDEWALK RAMP WITH CURB REFER TO CIVIL ENGINEERING PLAN
R02	ADA RAMP, TYPE 02 FLUSH CONDITION REFER TO CIVIL ENGINEERING PLAN
F01	FLAG POLE, REFER TO SITE DETAIL 5/L601
F02	DECORATIVE BOLLARD PER MANUFACTURER

NOTE: REFER TO CIVIL ENGINEERING PLANS FOR VEHICULAR PAVING

North

0 10' 20' 40'

Scale 1" = 20'-0"



TRUE NORTH

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

context DESIGN
5825 Lawton Loop East Drive | Indianapolis, IN 46216
317-485-6900 | www.context-design.com

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

FREDDIE J. PRAZEAU REGISTERED No. 2020-0052 STATE OF INDIANA LANDSCAPE ARCHITECT
EXPIRES 12-31-2023

REVISIONS:		
#	Date	Desc:
1	09-06-2023	Addenda 2

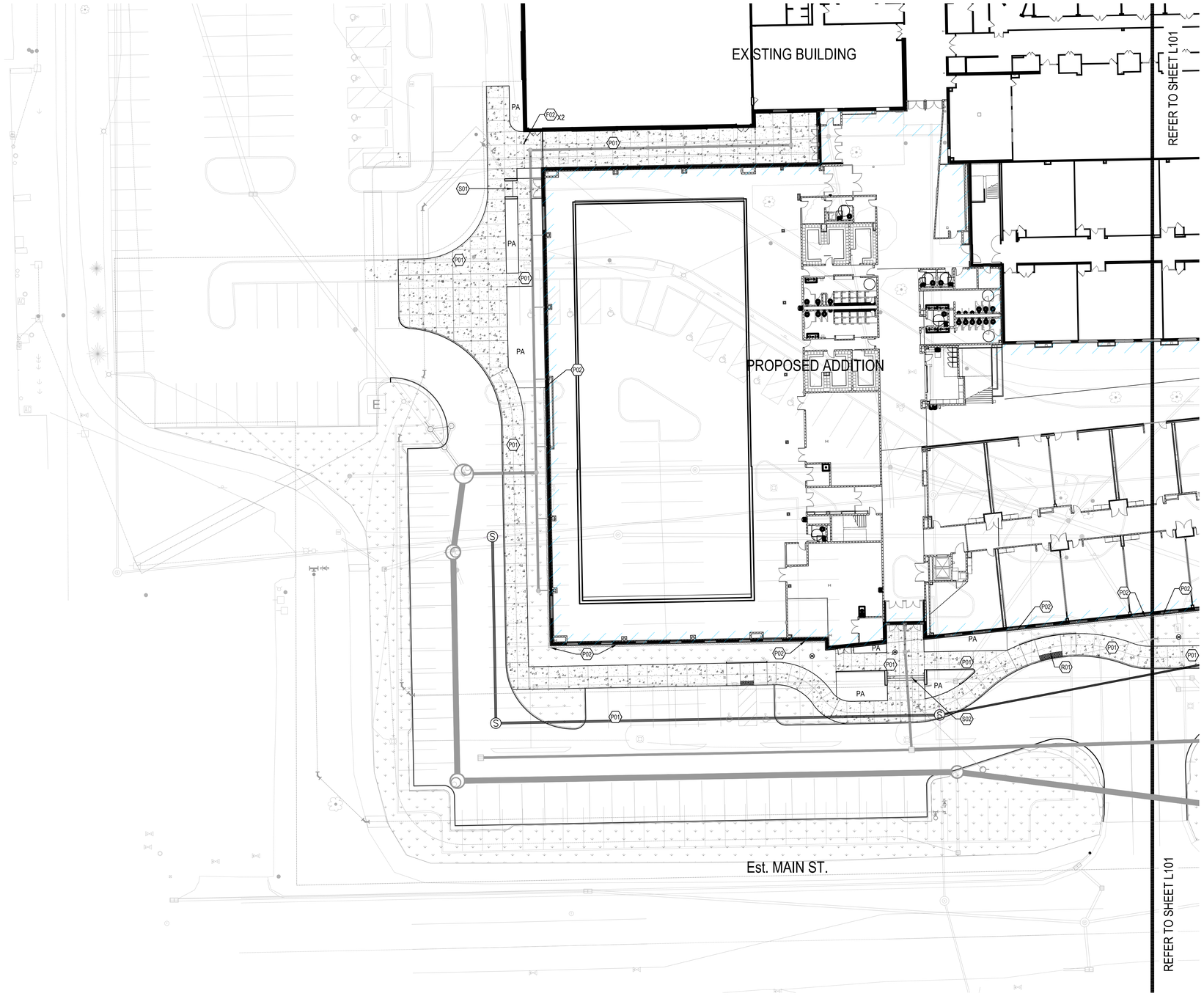
100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-26-2023
DRAWN BY: KK / CCH

Materials Plan

L101

PLOT DATE/TIME



	MATERIAL KEYNOTES	
KEY	DESCRIPTION / REFERENCE	
P01	CONCRETE, TYPE 01 REFER TO SITE DETAILS 1,2,3,4/L601	
P02	MAINTENANCE EDGE, 1'-0" REFER TO TO SITE DETAILS 7/L601	
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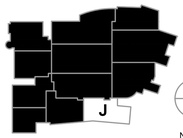
S01	STAIR & RAILING; 1 STEP REFER TO SITE DETAILS 1,4,5/L602	
S02	STAIR & RAILING; 3 STEPS REFER TO SITE DETAILS 3,4,5/L602	
S03	STAIR & RAILING; 4 STEPS REFER TO SITE DETAILS 2,4,5/L602	1
W01	WALL, 2'-0" WIDE SEAT WALL, TYPE 01 REFER TO SITE DETAIL 6/L602	
W02	WALL, 2'-0" WIDE SEAT WALL, TYPE 02 REFER TO SITE DETAIL 7/L602	
R01	ADA RAMP, TYPE 01 SIDEWALK RAMP WITH CURB REFER TO CIVIL ENGINEERING PLAN	
R02	ADA RAMP, TYPE 02 FLUSH CONDITION REFER TO CIVIL ENGINEERING PLAN	
F01	FLAG POLE, REFER TO SITE DETAIL 5/L601	1
F02	DECORATIVE BOLLARD PER MANUFACTURER	

NOTE: REFER TO CIVIL ENGINEERING PLANS FOR VEHICULAR PAVING

North

0 10' 20' 40'

Scale 1" = 20'-0"



PLOT DATE/TIME:

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

context DESIGN
5825 Lawton Loop East Drive | Indianapolis, IN 46216
317-485-6900 | www.context-design.com

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

FREDDIE J. PRAZEAU
REGISTERED
No. 2020-0052
STATE OF INDIANA
LANDSCAPE ARCHITECT
EXPIRES 12-31-2023

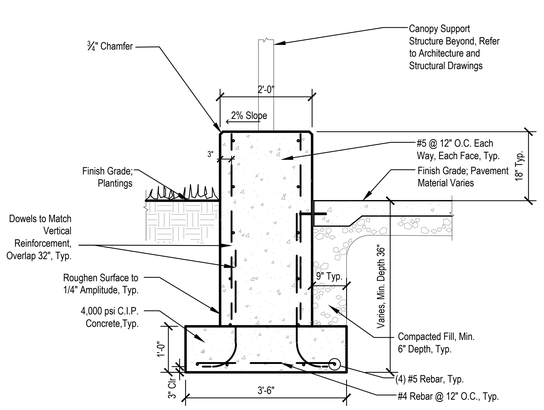
REVISIONS:		
#	Date	Desc.
1	09-06-2023	Addenda 2

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: KK / CCH

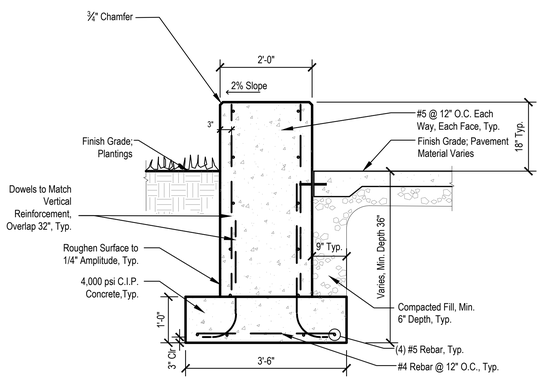
Materials Plan

L102



07 CONCRETE SEAT WALL - TYPE 2

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

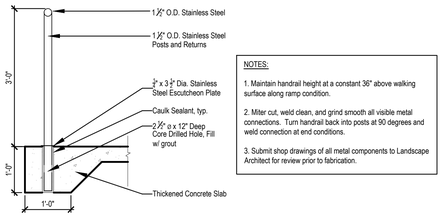


06 CONCRETE SEAT WALL - TYPE 1

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

05 CONCRETE CHEEK WALL

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



NOTES:

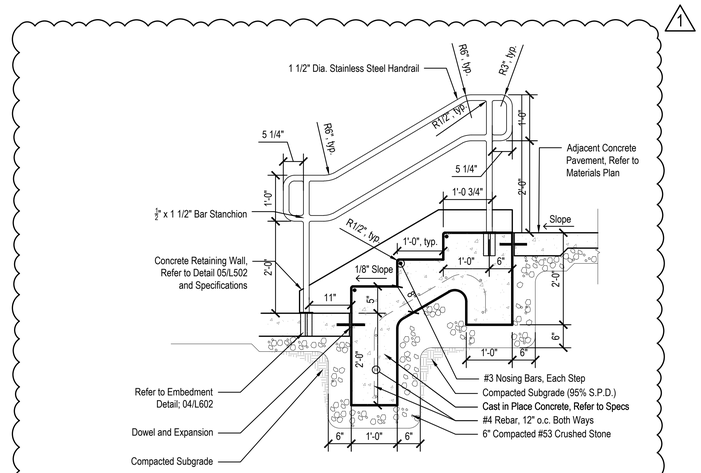
1. Maintain handrail height at a constant 36" above walking surface along ramp condition.

2. Miter cut, weld clean, and grind smooth all visible metal connections. Turn handrail back into posts at 90 degrees and weld connection at end conditions.

3. Submit shop drawings of all metal components to Landscape Architect for review prior to fabrication.

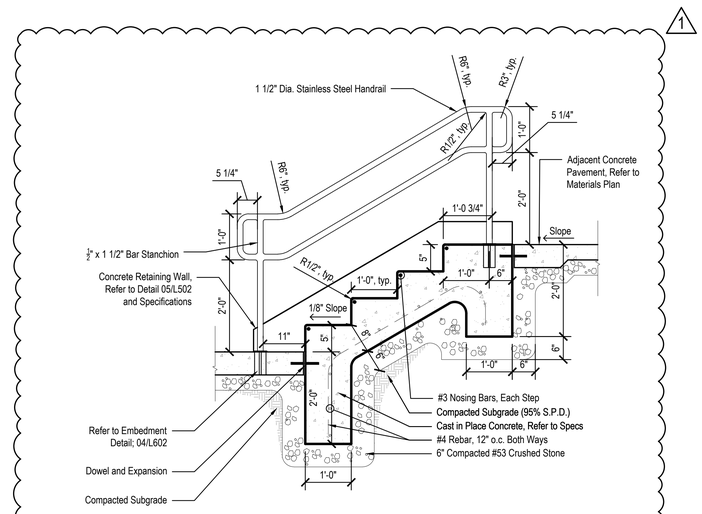
04 METAL HANDRAIL & EMBEDMENT

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



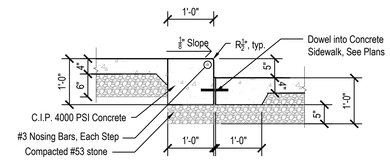
03 STAIR WITH HANDRAIL - 3 STEPS

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



02 STAIR WITH HANDRAIL - 4 STEPS

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



01 STAIR AND HANDRAIL - 1 RISER

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

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

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317-485-6900 | www.context-design.com

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

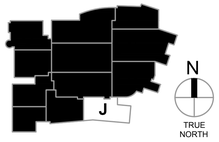
FREDDIE J. PRAZEAU REGISTERED No. 2020-0052 STATE OF INDIANA LANDSCAPE ARCHITECT
EXPIRES 12-31-2023

REVISIONS:	#	Date	Desc.
	1	09-06-2023	Addenda 2

100% CONSTRUCTION DOCUMENT

PROJECT:	#22130
DATE:	07-28-2023
DRAWN BY:	KK / CCH

Site Details



L602

PLOT DATE/TIME:

Primary Engineering, Inc.
9785 Crosspoint Blvd., Ste. 103
Indianapolis, Indiana 46256
317-324-1221 ph
www.primary-eng.com

Addendum: **2**

Date: **09/06/23**

Project: **Clark-Pleasant Community School Corp.**
Whiteland Comm. High School Addition

Comm #: **22417**

The following items shall be incorporated into the specifications and drawings and are considered to be integral to the bid documents for the project. Acknowledgement of receipt of this addendum is required on the bid form.

Item #1: General Clarifications

A. Louvers L-1 through L-21 are not required to be rated for wind-driven rain. Louver depths shall be based on dimensions listed in the Louver Schedule on Drawing Sheet M504 and not based on dimensions listed in Specification Section 089119 Fixed Louvers.
B. Grate locks are not required on trench drains.
C. Natatorium pool perimeter trench drain TD-2 overall center-line dimensions shall be 192’ x 80’.
D. Boiler room trench drain TD-3 shall be 14’0” long and shall consist of whole sections and minimum 8” deep.
E. Science Lab utility controllers: American Gas Safety is an allowable manufacturer.
F. Specification Section 238146 Water Source Unitary Heat Pumps applies to water-to-water heat pumps HP-1 through HP-6.

Item #2: Specification Section 077000, “Roof Specialties and Accessories”.

A. Add specification in its entirety. Refer to attached specification.

Item #3: Specification Section 089119, “Fixed Louvers”.

A. Add Part 2.3 A.f Construction Specialties
B. Add Part 2.3 B.f Construction Specialties
C. Add Part 2.3 C.f Construction Specialties

Item #4: Specification Section 224223, “Commercial Showers”.

A. Add Part 2.2 A.1.e Acorn Engineering Company
B. Add Part 2.2 B.1.d Acorn Engineering Company

Item #5: Specification Section 230900, “Instrumentation and Control for HVAC”.

A. Revise Part 2.2 A as follows:
    1. Distech with Niagara 4, installed by Jackson Systems and Supply.
    2. Honeywell with Niagara 4, installed by local factory authorized branch.

3. Automated Logic Corporation with WebCntrl, installed by local factory authorized branch.
4. Alerton Controls with Niagara 4, installed by Open Control Systems.
5. Delta Controls with Niagara 4, installed by local factory authorized branch.
6. Schneider Controls with Niagara 4, installed by local factory authorized branch.

Item #6: Specification Section 231123, "Facility Natural Gas Piping".

A. Add Part 2.3 A.3.a.2) NIBCO Bench Press

Item #7: Specification Section 236513.13, "Open-Circuit Forced-Draft Cooling Towers".

A. Delete Part 2.13 and replace with "NOT USED".
B. Delete Part 2.14 and replace with "NOT USED".

Item #8: Specification Section 238416.13, "Outdoor, Mechanical Dehumidification Units".

A. Delete Part 2.6.D and replace with "NOT USED".
B. Delete Part 2.7.E and replace with "NOT USED".
C. Delete Part 2.11.A and replace with "NOT USED".

Item #9: Drawing Sheet FP201.

A. Revise all Plan Notes. Refer to attached drawing revision.

Item #10: Drawing Sheet P001.

A. Revise Controls Responsibility Chart. Refer to attached drawing revision.

Item #11: Drawing Sheet P100L.

A. Revise Plan Note #3 to add medium duty stainless steel frame for trench drain TD-2. Refer to attached drawing revision.

Item #12: Drawing Sheet P100M.

A. Revise Plan Note #3 to add medium duty stainless steel frame for trench drain TD-2. Refer to attached drawing revision.

Item #13: Drawing Sheet P101AGH.

A. Add DET-1. Refer to attached drawing revision.

Item #14: Drawing Sheet P101L.

A. Add TMV-3 and Plan Note #6. Revise hot water piping to locker room wash fountains. Refer to attached drawing revision.

Item #15: Drawing Sheet P102J.

A. Add domestic hot water, cold water, and acid waste piping to fume hood. Refer to attached drawing revision.

Item #16: Drawing Sheet P102K.

Add domestic hot water, cold water, and acid waste piping to fume hood. Refer to attached drawing revision.

Item #17: Drawing Sheet P103J.

A. Add plumbing fixtures GT-1H and GT-2H to teacher demonstration table. Add plumbing fixtures SK-5H, GT-3H, and GT-4H to fume hoods. Add vent piping to fume hoods. Refer to attached drawing revision.

Item #18: Drawing Sheet P103KLM.

A. Add plumbing fixtures GT-1H and GT-2H to teacher demonstration table. Add plumbing fixtures SK-5H, GT-3H, and GT-4H to fume hoods. Refer to attached drawing revision.

Item #19: Drawing Sheet P501.

A. Add Plumbing Thermal Expansion Tank Schedule. Refer to attached drawing revision.
B. Plumbing Fixture Schedule: add plumbing fixtures SK-5H, GT-1H, GT-2H, GT-3H, and GT-4H. Refer to attached drawing revision.

Item #20: Drawing Sheet M001.

A. Revise Controls Responsibility Chart. Refer to attached drawing revision.

Item #21: Drawing Sheet M003.

A. Add disconnect and salvage of existing dust collector system. Refer to attached drawing revision.
B. Revise Demolition Plan Note #8. Refer to attached drawing revision.

Item #22: Drawing Sheet M101A.

A. Add reinstallation of existing dust collection system. Revise Plan Note #1. Refer to attached drawing revision.

Item #23: Drawing Sheet M101GH.

A. Revise Plan Note #1. Refer to attached drawing revision.

Item #24: Drawing Sheet M101J.

A. Add thermostat for HP-J1.06, HP-J1.08, HP-J1.18, HP-J3.16, and HP-J3.17. Refer to attached drawing revision.

Item #25: Drawing Sheet M101K.

A. Revise thermostat location for HP-K1.15. Refer to attached drawing revision.

Item #26: Drawing Sheet M101L.

A. Add piping to HP-L2.06. Add condensate piping up to HP-L3.02. Refer to attached drawing revision.

Item #27: Drawing Sheet M101M.

A. Apply Plan Note #12 to HP-M1.01. Refer to attached drawing revision.

Item #28: Drawing Sheet M102J.

A. Add piping to HP-J2.13 and HP-J2.14. Revise HP-J2.15 thermostat location. Refer to attached drawing revision.

Item #29: Drawing Sheet M102L.

A. Add piping up to HP-L3.02. Revise pipe size up to HP-L3.03. Refer to attached drawing revision.

Item #30: Drawing Sheet M103J.

A. Revise diffuser airflows for HP-J3.16. Revise HP-J3.01 and HP-J3.06 thermostat tags. Refer to attached drawing revision.

Item #31: Drawing Sheet M103K.

A. Revise diffuser airflows for HP-J3.17. Revise HP-K3.11 thermostat tag. Add piping to HP-L3.01. Revise dual-temp pipe size to DOAS-1. Refer to attached drawing revision.

Item #32: Drawing Sheet M301.

A. Revise ET-1 tag to be ET-1.1. Add expansion tank ET-1.2. Add piping to HP-J3.07 and HP-J3.18. Revise Plan Note #18. Revise 3" piping to be 4" for DOAS-1 reheat coil system. Refer to attached drawing revision.

Item #33: Drawing Sheet M501.

A. Water Source Heat Pump Schedule: revise heat pumps HP-J3.16 and HP-J3.17. Add "WaterFurnace" as HP-L2.06 manufacturer. Add Remark #10 and apply to all heat pumps except HP-J1.08, HP-L2.06, HP-J3.08, HP-L3.02, and HP-M3.02. Refer to attached drawing revision.

Item #34: Drawing Sheet M502.

A. Cooling Tower Schedule: revise cooling tower selection information. Refer to attached drawing revision.
B. Air Handler Schedule: revise Dual-Temp Reheat Coil flow rate to be 290 GPM. Refer to attached drawing revision.
C. Air and Sediment Separator: revise ADS-3. Refer to attached drawing revision.

Item #35: Drawing Sheet M503.

A. Water Flow / Energy Meter Schedule: revise FM-3. Refer to attached drawing revision.

Item #36: Drawing Sheet M504.

A. Expansion Tank Schedule: revise ET-1 to be ET-1.1. Add ET-1.2. Revise ET-2. Add system volume and pre-charge information. Refer to attached drawing revision.
B. Variable Speed Drive Schedule: revise cooling tower fan VSD motor HP ratings. Refer to attached drawing revision.
C. Hydronic Pump Schedule: revise P-10 and P-11 selection. Add Remark #8. Refer to attached drawing revision.

Item #37: Drawing Sheet E000.

A. Added Carbon monoxide sensor to symbol schedule. Refer to supplemental information drawing E000 for additional information.

Item #38: Drawing Sheet E102E

A. Demolish Smoke Damper. Refer to supplemental information drawing E102E for additional information.

Item #39: Drawing Sheet E301M.

A. Rm. M104: Added Track lighting in display case. Refer to supplemental information drawing E301M for additional information.

Item #40: Drawing Sheet E401A

A. Rm. A114a & A114b: Added Carbon Monoxide sensors to room. Refer to supplemental information drawing E401A for additional information.

Item #41: Drawing Sheet E401M

A. Rm. M101: Added Carbon Monoxide sensors to room. Refer to supplemental information drawing E401M for additional information.

Item #42: Drawing Sheet E501

A. Detail #13 revision. Refer to supplemental information drawing E501 for additional information.

Item #43: Drawing Sheet E601.

A. Revised electrical information for CT-1 and CT-2 motors. Refer to supplemental information drawing E601 for additional information.

Item #44: Drawing Sheet E602.

A. Revised electrical information for HP-J3.16 & HP-J3.17. Refer to supplemental information drawing E602 for additional information.

Item #45: Drawing Sheet E701.

A. Equipment Schedule revisions. Refer to supplemental information drawing E701 for additional information.

Item #46: Drawing Sheet E703

A. Exterior Light schedule and Replay Panel Schedule revisions. Refer to supplemental information drawing E201M for additional information.

Item #47: Drawing Sheet ES201

A. Revised location of utility transformer. Refer to supplemental information drawing ES201 for additional information.

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Rooftop support products including:
   1. Access products.
   2. Accessories.

1.2 RELATED SECTIONS

A. Section 05 50 00 - Metal Fabrications.

B. Division 07 - Thermal and Moisture Protection.

C. Section 21 05 29 - Hangers and Supports for Fire Suppression Pipe.

D. Section 22 05 29 - Hangers and Supports for Plumbing Pipe and Equipment.

E. Section 23 05 29 - Hangers and Supports for HVAC Piping and Equipment.

F. Section 26 05 29 - Hangers and Supports for Electrical Systems

1.3 REFERENCES

A. ASTM International (ASTM):
   1. ASTM A1011 SS GR33 - Standard Specification for hot rolled carbon steel sheet and strip, structural quality. (Hot Rolled Channel - Hot-Dipped Galvanized Finish).
   2. ASTM A123 - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
   3. ASTM A153 - Standard Specification for zinc Coating (Hot-Dip) on Iron and Steel Hardware.
   4. ASTM A525 - Specification for General Requirements for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process.
   5. ASTM D1929 - Standard Test Method for Determining Ignition Temperature of Plastics.

B. American National Standards Institute (ANSI):
   1. ANSI / MSS SP-58 - Pipe Hangers and Supports - Materials, Design, Manufacture, Selection, Application and Installation.
   2. ANSI / MSS SP-69 - Pipe Hangers and Supports - Selection and Application.
   3. ANSI / MSS SP-127 - Bracing for Piping Systems Seismic-Wind-Dynamic Design, Selection and Application.

C. American Iron and Steel Institute (AISI):
   1. AISI Specifications for the Design of Cold-Formed Steel Structural Members, 2007 Edition.

D. American Institute of Steel Construction (AISC):
   1. Steel Construction Manual, 14th Edition.

E. American Society of Civil Engineers (ASCE):

1. ASCE 7 - Minimum Design Loads for Buildings and Other Structures.

F. International Code Council (ICC):
1. International Building Code.
2. International Mechanical Code.
3. International Fuel and Gas Code.

G. Occupational Safety and Health Administration (OSHA):
1. Safety and Health Regulations for Construction, Fall Protection.
2. OSHA 1910, Subpart D, Walking and Working Surfaces.

1.4 SUBMITTALS

A. Submit under provisions of Section 01 30 00 - Administrative Requirements.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

C. Shop Drawings:
1. Provide project specific, engineered stamped shop drawings and calculations including extents of installation, load bearing capacity and structural requirements.
2. Show installation layout, indicating product type and spacing. Coordinate with manufacturer's take off evaluations, measurements, control dimensions, and rooftop requirements analysis.
3. Show details of each roofing system including material layers and thicknesses, flashing, terminations, and penetrations with each rooftop support system to be installed.
4. All supports shall be pre-assembled and shipped for turnkey installation. Indicate all steps and preparation required by others.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification, product model names and catalog numbers, and related information until ready for installation.

B. Store materials off the ground under ventilated covers until ready for installation.

C. Handle materials to avoid damage.

1.6 PROJECT CONDITIONS

A. Quantity Take Off: A manufacturer certified technician shall perform on-site quantity take-off including the following:
1. Field measurements.
a. Where field measurements are not possible during design or construction, show control dimensions and project specific information on shop drawings.
2. Design and layout.
3. Product designation and tagging.

B. Do not install products under environmental conditions outside manufacturer's recommended limits.

C. Coordinate with roofing, mechanical, electrical and other related trades as required.

1.7 WARRANTY

A. Provide manufacturers standard product warranty against defects in manufacturing, proper operation, and against damaging roofing membrane when products are installed in accordance with engineered shop drawings and manufacturer's instructions. Warranty is not a maintenance agreement, insurance policy or obligation to repair leaks determined to be a result of the building design, installation, construction error, misuse of system, failure to inspect or maintain system or other limitations in manufacturer's standard warranty.
   1. Warranty Period: 20 years.

PART 2 PRODUCTS

2.1 GENERAL

A. Unique design absorbs thermal expansion and contraction of pipes to prevent damage to roofing membranes using non-corrosive bases that rest on roofing membranes including:
   1. Gently rounded edges to prevent damage to roofing membrane.
   2. Drainage ports to prevent ponding.
   3. Carbon black additive in polycarbonate for UV stabilization, stainless steel and hot-dipped galvanized bases are available as specified below.

B. Loading and Design Constraints:
   1. Design values are based on rooftop applications only. For other applications contact manufacture for allowable loading.
   2. Maximum loading from any type of base to finished roof surface not to exceed 3.0 psi (0.021 Mpa) unless specifically indicated in project specifications.
   3. Horizontal deflection not to exceed the span length divided by 360 (*l/360)* or 1/8 inch (3.175 mm).

C. Include manufacturers pipe guides, spacers, clamps, support pads, 2-sided tape and other recommended accessories.

2.2 ACCESS PRODUCTS

A. Crossover Bridges: Custom designed to meet project specific requirements, OSHA 1910 Subpart D standards including handrails, and the following:
   1. Deck Bases: Polycarbonate, 16 by 18 inch (406 by 457 mm).
   2. Deck Bases: Stainless steel, 12 by 16 inch (305 by 406 mm).
   3. Deck Bases: Hot-dipped galvanized steel, 12 by 16 inch (305 by 406 mm).
   4. Metal Components: Hot-dipped galvanized steel.
   5. Metal Components: Stainless steel.
   6. Walking Surfaces: 12 inch (305 mm) Punched Interlock Grating with anti-skid surface.
   7. Walking Surfaces: Bar Grating with serrated surface.
   8. Walking Surfaces: Fiberglass Grating.
   9. Railings: Standard railings shall be provided on all stairways having 4 or more

risers and platforms 4 feet (1.22 m) or more above adjacent level.

10. Toeboards: 4 inch (102 mm) Toeboards shall be provided whenever, beneath the open side:
    a. A person can pass;
    b. There is moving machinery;
    c. Where falling material could create a hazard.
11. Structural Design Criteria in accordance with Structural Documents
12. Crossover structures that are exposed to wind shall be designed and installed to resist wind pressures determined in accordance with ASCE 7 chapter 29.
13. When earthquake loads are applicable in accordance with ASCE 7 chapter 13, crossover structures shall be designed and installed accordingly.
14. The design requirements for crossover structures, components, supports and attachments shall be supported by one of the following methods:
    a. Project-specific design and documentation submitted for approval to the authority having jurisdiction after review and acceptance by a registered design professional.
    b. Submittal of manufacturer's certification that the component is qualified by an independent third party via either analysis or testing in accordance with industry standards.

2.3 ACCESSORIES

A. Fitted Support Pads: Designed specifically to fit non-penetrating rooftop supports for additional protection of the rooftop envelope. Slip resistant pads are heat molded with a small lip to hold the support pad and reduce movement on the rooftop. Holes in the pad save weight and allow for venting and drainage.
   1. Support Pad Material: 100 percent recycled rubber.
   2. Dimensions: Fitted 19 by 23 inch (483 by 584 mm).
   3. Dimensions: Fitted 16 by 18 inch (406 by 457 mm).
   4. Dimensions: Fitted 9 by 15 inch (230 by 381 mm).
   5. Dimensions: Fitted 7 by 10 inch (178 by 254 mm).
   6. Dimensions: 12 by 12 inch (304.8 by 305 mm).
   7. Dimensions: Custom size as recommended by the manufacturer.

B. Flat Support Pads: Designed specifically to fit non-penetrating rooftop supports for additional protection of the rooftop envelope. Slip resistant pads are heat molded.
   1. Support Pad Material: 100 percent recycled rubber.
   2. Dimensions: 12 by 12 inch (305 by 305 mm).
   3. Dimensions: Custom size as recommended by the manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

C. Field Measurements and Quantity Take Off: A manufacturer certified technician shall perform on-site field measurements, coordinate design and layout, designate and tag products based on project conditions.

3.2 PREPARATION

A. Clean roofing surfaces in accordance with the roofing manufacturer's instructions prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for each substrate under the project conditions.
   1. For ballasted or built-up roofs, all loose aggregate shall be removed from an area 2 inch (51 mm) outside each base footprint.

3.3 INSTALLATION

A. Install an additional sheet of roofing material, a support pad, or a deck plate beneath the base of each stand.

B. Place the supports:
   1. Center each stand beneath the component so supports are aligned.
   2. If more than one pipe is being supported, adjust for even weight distribution.
   3. Set pipe in support without dropping or causing undue impact.

C. Adjustable Supports: Adjust height of each support to achieve proper height and level before installing supported item.
   1. Level hangers, rollers or struts before installing component.
   2. Make final height adjustments to provide even distribution of load on all supports.

3.4 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

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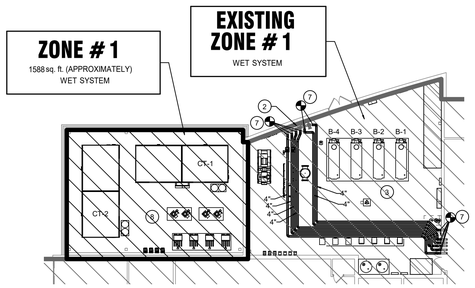


2 EAST FIRE RISER LOCATION

SCALE: 1/16" = 1'-0"

GENERAL FIRE PROTECTION NOTES

1. ALL MATERIALS AND INSTALLATION METHODS SHALL COMPLY WITH NFPA 13 AND ALL STATE AND LOCAL CODES.
2. ALL PIPING SHALL BE CONCEALED IN FINISHED SPACES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.
3. ALL PIPING EXPOSED TO VIEW IN FINISHED SPACES (OTHER THAN EQUIPMENT ROOMS) SHALL BE PAINTED GLOSS RED.
4. PROVIDE SPARE SPRINKLER HEADS AND KEYS IN A CABINET MOUNTED NEAR FIRE RISER LOCATION.
5. THE INSTALLING CONTRACTOR SHALL DESIGN THE FIRE PROTECTION SYSTEM AND SUBMIT FOR REVIEW BY THE ENGINEER AND SUBSEQUENTLY SUBMIT FOR REVIEW BY STATE AND LOCAL AUTHORITY.
6. ALL PIPING SHALL BE LABELED "FIRE PROTECTION WATER".
7. CONTRACTOR SHALL SUBMIT ALL FIRE PROTECTION CALCULATIONS, DRAWINGS, AND PRODUCT DATA TO OWNER'S INSURANCE UNDERWRITER FOR APPROVAL PRIOR TO SUBMITTING TO ENGINEER FOR REVIEW. ALL WORK SHALL COMPLY WITH OWNER'S INSURANCE UNDERWRITER REQUIREMENTS (FM AND UL).

FIRE PROTECTION PLAN NOTES

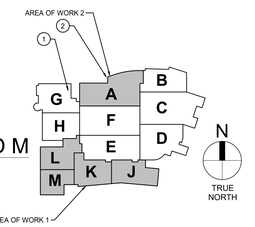
1. EXISTING WEST FIRE RISER LOCATION
2. EXISTING EAST FIRE RISER LOCATION
3. MODIFY EXISTING FIRE PROTECTION PIPING AND SPRINKLERS AS REQUIRED FOR RENOVATED AREAS.
4. NEW FIRE PROTECTION ZONE #8 AND #9 MAINS FROM WEST RISER.
5. AUTOMATIC SPRINKLER SYSTEM NOT REQUIRED IN NATARORIUM PER VARIANCE.
6. FREEZE PROOF SIDEWALL SPRINKLER HEADS IN AREAS SUBJECT TO FREEZING.
7. DISCONNECT AND REMOVE EXISTING ZONE MAINS COMPLETE THROUGH EXISTING BOILER ROOM. REPLACE EXISTING ZONE MAINS WITH NEW, RECONNECT TO EXISTING. COORDINATE NEW ROUTING WITH ALL TRADES.
8. EXTEND NEW FIRE PROTECTION FROM EXISTING ZONE #1 TO NEW BOILER ROOM ADDITION.
9. ROUTE NEW PIPING ABOVE EXISTING CEILING. COORDINATE WITH GC TO REMOVE AND REINSTALL EXISTING CEILINGS AS REQUIRED.
10. THREE-STORY ATRIUM DENSITY FOR AUTOMATIC SPRINKLER PIPING DESIGN SHALL BE OH1 PER VARIANCE.
11. CLASS I MANUAL WET STANDPIPE EXPOSED IN STAIRWELL.
12. CLASS I MANUAL WET STANDPIPE EXPOSED CONCEALED IN CHASE WITH HOSE CONNECTION CABINETS AT INTERMEDIATE LANDINGS.
13. TO NEW STANDPIPE FIRE DEPARTMENT CONNECTION ON SITE. REFER TO SITE PLANS FOR CONTINUATION.
14. ALL PIPING IN THIS ROOM SHALL BE PAINTED WITH PRIMER AND A CORROSION RESISTANT TOP COAT. ALL HEADS SHALL BE COATED FOR A CORROSIVE ENVIRONMENT.

FIRE PROTECTION SYMBOL SCHEDULE

	GATE VALVE		ALARM BELL
	BALL VALVE		FIRE DEPARTMENT CONNECTION
	CHECK VALVE		FIRE PUMP TEST HYDRANT
	BUTTERFLY VALVE		PRESSURE GAUGE
	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER		SIDEWALL SPRINKLER HEAD
	DOUBLE CHECK BACKFLOW PREVENTER	FP	FIRE PROTECTION
	PIPE DROP	N2	NITROGEN
	PIPE RISE	EPO	EMERGENCY POWER OFF
	INLINE PIPE DROP	N.C.	NORMALLY CLOSED
	CEILING MOUNTED SPRINKLER HEAD	RPBP	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
	UPRIGHT SPRINKLER HEAD		AUTOMATIC INERTING VENT
	FLOW SWITCH		NITROGEN INJECTION PORT
	STROBE	FP	FIRE PROTECTION PIPE
	HORN/ STROBE		DIRECTION OF FLOW
	PUSH BUTTON		FIRE ZONE BOUNDARY

1 FIRST FLOOR - FIRE PROTECTION PLAN - UNITS J. K. L. AND M

SCALE: 1/16" = 1'-0"



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0 16 32 48 SCALE: 1/16" = 1'-0"
0 8 16 24 32 SCALE: 3/32" = 1'-0"
0 8 16 24 SCALE: 1/8" = 1'-0"
0 4 8 12 SCALE: 1/4" = 1'-0"
0 2 4 6 SCALE: 1/2" = 1'-0"
0 2 4 SCALE: 3/4" = 1'-0"
0 1 2 3 SCALE: 1" = 1'-0"

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CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

ANDREW STEPHEN LOPER REGISTERED PE11700017 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
2.	9/6/2023	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: ASL

FIRST FLOOR - FIRE PROTECTION PLAN

FP201

PRIMARY JOB # 22417

PLUMBING SYMBOL SCHEDULE

PIPING SYMBOLS

- AUTOMATIC FLOW CONTROL VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- COMPRESSED AIR OUTLET
- DOUBLE CHECK BACKFLOW PREVENTER
- GAS OUTLET TURRET
- GAS COCK
- GATE VALVE
- GLOBE VALVE
- HOSE THREAD END WITH CAP
- INLINE PIPE DROP
- INLINE PUMP
- INLINE PIPE RISE
- MANUAL FLOW CONTROL VALVE
- METER
- P&T RELIEF VALVE
- P&T PORT
- PIPE BREAK
- PIPE CAP
- PIPE DROP
- PIPE RISE
- PIPE THERMOMETER
- PRESSURE GAUGE
- PRESSURE REDUCING VALVE
- ROOF DRAIN OR OVERFLOW ROOF DRAIN
- REDUCED PRESSURE BACKFLOW PREVENTER W/ RISING STEMS
- REDUCED PRESSURE BACKFLOW PREVENTER
- SIDEWALL CLEANOUT
- STRAINER
- STRAINER WITH BLOWDOWN
- TEMPERATURE SENSOR
- THERMOSTATIC MIXING VALVE
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- UNION
- WALL HYDRANT / HOSE BIBB

PLUMBING SYMBOLS

- FLOOR CLEANOUT
- ELECTRIC WATER COOLER/ DRINKING FOUNTAIN
- FLOOR DRAIN
- FLOOR SINK
- MOP BASIN
- SHOWER HEAD
- SINK OR LAVATORY
- WATER CLOSET
- WASH FOUNTAIN
- WASH FOUNTAIN
- URINAL

GENERAL SYMBOLS

- EXTENT OF DEMOLITION
- TIE-IN OF NEW TO EXISTING

PLUMBING LINE TYPES

- COLD WATER
- HOT WATER
- HOT WATER RECIRC
- 140° HOT WATER AT TEMPERATURE
- SOFT SOFTENED WATER
- RAW RAW WATER
- NP NON POTABLE WATER
- G NATURAL GAS
- A COMPRESSED AIR
- V VACUUM
- COND CONDENSATE DRAIN
- SAN SANITARY PIPING ABOVE GRADE
- G-SAN GREASE SANITARY PIPING ABOVE GRADE
- SAN SANITARY PIPING BELOW GRADE
- G-SAN GREASE SANITARY PIPING BELOW GRADE
- SANITARY VENT
- ST STORM PIPING ABOVE GRADE
- ST STORM PIPING BELOW GRADE
- AW ACID WASTE SANITARY PIPING BELOW GRADE
- AV ACID VENT
- N2 NITROGEN GAS
- O2 OXYGEN GAS
- CO2 CARBON DIOXIDE GAS
- DT PERIMETER DRAIN TILE

GENERAL LINE TYPES

- EXISTING TO REMAIN LINE WEIGHT
- EXISTING TO BE DEMOLISHED LINE TYPE AND WEIGHT
- NEW PIPING LINE WEIGHT
- NEW EQUIPMENT LINE WEIGHT

ABBREVIATIONS

AC	AIR COMPRESSOR
AFF	ABOVE FINISHED FLOOR
AW	ACID WASTE
BFF	BELOW FINISHED FLOOR
CO	CLEAN OUT
CW	COLD WATER
DBP	DOMESTIC BOOSTER PUMP
DF	DRINKING FOUNTAIN
DSN	DOWNSPOUT NOZZLE
EDS	EMERGENCY DRENCH SHOWER
EEW	EMERGENCY EYE WASH
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FS	FLOOR SINK
G	GAS
G-SAN	GREASE SANITARY WASTE
GI	GREASE INTERCEPTOR
GD	GARBAGE DISPOSER
GWH	GAS WATER HEATER
-H	HANDICAP/ACCESSIBLE FIXTURE
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
IE	INVERT ELEVATION
L	LAVATORY
LT	LAUNDRY TRAY
MB	MOP BASIN
OI	OIL INTERCEPTOR
ORD	OVERFLOW ROOF DRAIN
P	PUMP
RD	ROOF DRAIN
RPBP	RED. PRESS. BACKFLOW PREV.
SAN	SANITARY WASTE
SE	SEWAGE EJECTOR
SHR	SHOWER
SI	SOLIDS INTERCEPTOR
SK	SINK
SOI	SAND/OIL INTERCEPTOR
SP	SUMP PUMP
SS	SERVICE SINK
ST	STORM
TD	TRENCH DRAIN
TMV	THERMOSTATIC MIXING VALVE
UR	URINAL
V	VENT
VP	VACUUM PUMP
VTR	VENT THRU ROOF
WB	WALL BOX
WC	WATER CLOSET
WH	WALL HYDRANT
WS	WATER SOFTENER
YH	YARD HYDRANT

CONTROLS RESPONSIBILITY CHART

ITEM	CONTROL CONTRACTOR	MECHANICAL CONTRACTOR	ELECTRICAL CONTRACTOR	REMARKS
FURNISH PIPE WELLS FOR SENSORS	X			
INSTALL PIPE WELLS FOR SENSORS		X		
PROVIDE 120 VOLT POWER FOR CONTROL PANELS			X	
PROVIDE INTERLOCK WIRING BETWEEN DEVICES, PANELS, BOILERS, CHILLERS, ETC		X		1
FURNISH VARIABLE SPEED DRIVES	X			2
INSTALL VARIABLE SPEED DRIVES			X	
PROVIDE LINE AND LOAD WIRING TO VARIABLE SPEED DRIVES			X	
PROVIDE CONTROL WIRING TO VSD	X			
PROGRAM AND STARTUP VSD	X			
PROVIDE 120 VOLT POWER TO CONTROLS			X	
PROVIDE LOW VOLTAGE CABLING TO CONTROLS	X			
FURNISH CONTROL DAMPERS	X			3
INSTALL CONTROL DAMPERS		X		
FURNISH DAMPER ACTUATORS	X			
INSTALL DAMPER ACTUATORS	X			
WIRE LOW VOLTAGE DAMPER ACTUATORS	X			
WIRE LINE VOLTAGE DAMPER ACTUATORS			X	
FURNISH CONTROL VALVES	X			4
INSTALL CONTROL VALVES		X		
FURNISH CONTROL VALVE ACTUATORS	X			4
INSTALL CONTROL VAVLE ACTUATORS	X			
PROGRAM AND COMMISSION BOILER SEQUENCES		X		
PROGRAM AND COMMISSION CHILLER SEQUENCES		X		
COORDINATE PROJECT SCHEDULE WITH ALL TRADES	X	X	X	
PROVIDE SHOP DRAWINGS TO ALL TRADES	X	X		
VERIFY AND TEST SEQUENCE OF OPERATIONS	X			
TERMINATE DUCT DETECTORS	X			
ROOF PENETRATIONS		X		5
PROVIDE DUCT DETECTORS			X	
PROVIDE 120 VOLT POWER TO SOLENOID VALVES			X	
PROVIDE LOW VOLTAGE CABLING TO SOLENOID VALVES	X			
PROVIDE AND INSTALL REFRIGERANT MONITORING SYSTEM	X			
SALVAGE OF EXISTING CONTROLS	X			6
DEMOLITION OF EXISTING CONTROLS		X		7

REMARKS:

1. MECHANICAL CONTRACTOR/MANUFACTURER SHALL PROVIDE AND INSTALL ALL ASSOCIATED INTERLOCK WIRING AND DEVICES FOR A COMPLETE UNIT.
2. PACKAGED VSD'S INTERNAL TO HVAC EQUIPMENT SHALL BE FURNISHED BY EQUIPMENT MANUFACTURER UNLESS NOTED OTHERWISE. REFER TO EQUIPMENT SCHEDULES FOR VSD'S TO BE FURNISHED BY EQUIPMENT MANUFACTURER.
3. PACKAGED CONTROL DAMPERS INTEGRAL TO HVAC EQUIPMENT SHALL BE FURNISHED BY EQUIPMENT MANUFACTURER UNLESS NOTED OTHERWISE. REFER TO EQUIPMENT SCHEDULES AND DETAILS FOR MORE INFORMATION.
4. PACKAGED CONTROL VALVES INTEGRAL TO HVAC EQUIPMENT SHALL BE FURNISHED BY EQUIPMENT MANUFACTURER UNLESS NOTED OTHERWISE. REFER TO EQUIPMENT SCHEDULES AND DETAILS FOR MORE INFORMATION.
5. COORDINATE WITH GC FOR ROOF PENETRATIONS.
6. COORDINATE WITH OWNER.
7. COORDINATE WITH TCC PRIOR TO CONTROLS DEMOLITION.

GENERAL DEMOLITION NOTES

1. ALL EXISTING PENETRATIONS FROM DUCT/ PIPE/ WIRE/ CONDUIT THAT IS REMOVED SHALL BE PATCHED BY PROPER TRADES TO MATCH SURROUNDINGS UNLESS PENETRATION IS TO BE REUSED. PATCH ALL FLOOR AND WALL PENETRATIONS TO MAINTAIN FIRE RATED CONSTRUCTION.
2. ALL ROOF PENETRATIONS NOT BEING REUSED SHALL BE PATCHED TO MAINTAIN EXISTING ROOF WARRANTY. EXISTING CURBS TO BE ABANDONED SHALL BE CAPPED WITH ALUMINUM HOOD PAINTED WITH "N.I.S." (NOT IN SERVICE). INSULATE CAVITY BELOW CAP WITH TIGHT FITTING 3" FOAM BOARD WRAPPED WITH SHEET METAL.
3. ALL PIPE SHALL BE REMOVED TO WITHIN AREAS THAT ARE INACCESSIBLE SUCH AS WALL CAVITIES AND BELOW SLAB. IN FINISHED SPACES REMOVE BELOW SURFACE, CAP WATER TIGHT, AND PATCH SURFACE TO MATCH SURROUNDINGS.
4. ALL PATCHING OF WALLS SHALL MATCH MATERIALS AND WHEN COMPLETE SHALL NOT LOOK LIKE A PATCH.
5. TOOTH-IN NEW BRICK/ BLOCK WITH FULL UNITS, DO NOT CUT FILLER PIECES.
6. PRIOR TO CUTTING EXISTING SLAB ON GRADE, CONTRACTOR SHALL VERIFY EXISTENCE OF EXISTING UTILITIES SUCH AS PIPING, CONDUIT, WIRE, ETC. BY MEANS OF GROUND PENETRATING RADAR TO LOCATE AND DETERMINE DEPTH OF BURY. TAKE PRECAUTIONS TO DE-ENERGIZE POWER TO CIRCUITS AND CAREFULLY CUT AND REMOVE SLAB. ANY UTILITIES THAT WERE LOCATED AND SUBSEQUENTLY DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDED COST TO THE OWNER.

GENERAL PLUMBING NOTES

1. ALL WORK SHALL COMPLY WITH ALL LOCAL/STATE CODES AND ORDINANCES.
2. PIPING LAYOUTS ARE SCHEMATIC IN NATURE. ADDITIONAL ELBOWS, OFFSETS, AND FITTINGS SHALL BE ADDED AS REQUIRED TO COORDINATE WITH OBSTRUCTIONS AND OTHER TRADES.
3. COORDINATE ALL WORK WITH OTHERS TRADES AND EXISTING WORK TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.
4. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.
5. ALL DOMESTIC PIPING BELOW SLAB SHALL BE TYPE K SOFT COPPER WITH NO FITTINGS WITHIN OR BELOW SLAB.
6. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLATION METHODS.
7. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIALS, ETC. SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE WITH OTHER TRADES.
8. ALL VALVE HANDLES SHALL BE INSTALLED TO ALLOW A FULL RANGE OF MOTION.
9. INSTALL ALL ACCESSIBLE FIXTURES ACCORDING TO ADA STANDARDS AND LOCAL REQUIREMENTS.
10. ALL PVC DRAIN/VENT PIPE LOCATED IN A PLENUM OR ABOVE CEILING SHALL BE COVERED WITH 1/2" ELASTOMERIC FOAM INSULATION.

CUTTING AND PATCHING NOTES

CUTTING AND PATCHING: WHERE DRAWINGS INDICATE PATCHING, CONTRACTORS SHALL BE RESPONSIBLE TO PERFORM THE FOLLOWING UNLESS NOTED OTHERWISE.

1. ALL PENETRATIONS INTO EXISTING SURFACES WHERE EXISTING EQUIPMENT, DUCTWORK, PIPING, CONDUIT, WIRING, WIRE MOLD, ETC. IS TO BE REMOVED SHALL BE PATCHED BY PROPER TRADES USING MATERIALS THAT ARE IDENTICAL TO EXISTING MATERIALS. REFER TO CUTTING AND PATCHING SPECIFICATIONS FOR MORE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.
2. PATCHING OF EXISTING PAINTED SURFACES SHALL INCLUDE PATCHING AS REQUIRED AND PAINTING TO MATCH EXISTING.
3. EXISTING PENETRATIONS OF CMU BLOCK AND BRICK WALLS LARGER THAN 2" DIAMETER SHALL BE PATCHED WITH FULL TOOTHED-IN MATCHING CMU BLOCK OR BRICK UNITS WITH COLOR MATCHING GROUT. PENETRATIONS 2" DIAMTER AND LESS SHALL BE PATCHED WITH COLOR MATCHING GROUT. PROVIDE PHYSICAL SAMPLES OF COLOR MATCHING GROUT FOR REVIEW BY OWNER AT EACH LOCATION.
4. EXISTING PENETRATIONS OF GLASZED BLOCK AND BRICK WALLS LARGER THAN 2" DIAMETER SHALL BE PATCHED WITH FULL TOOTHED-IN MATCHING GLAZED BLOCK OR BRICK UNITS WITH COLOR MATCHING GROUT. PENETRATIONS 2" DIAMETER AND LESS SHALL BE PATCHED WITH STAINLESS STEEL COVERPLATE. PROVIDE PHYSICAL SAMPLES OF GLAZED BLOCK, BRICK, AND COLOR MATCHING GROUT FOR REVIEW BY OWNER AT EACH LOCATION.
5. EXISTING PENETRATIONS OF PLASTER OR GYPSUM SURFACES SHALL BE PATCHED WITH (2) LAYERS 5/8" USG FIBERROCK AQUA TOUGH DRYWALL, FINISHED AND PAINTED TO MATCH EXISTING.
6. PENETRATIONS OF EXISTING CARPET FLOOR TILE AND VINYL FLOOR TILE SHALL BE PATCHED BY REMOVING AND REPLACING FULL TILES TO MATCH EXISTING.
7. EXISTING PENETRATIONS OF TERRAZZO SURFACES SHALL INCLUDE PATCHING AS REQUIRED FOR TERRAZZO REPAIR BY OTHERS.

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ANDREW STEPHEN LOUDERBACK
REGISTERED
PE11700017
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
2	9/6/2023	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: ASL

PLUMBING INFORMATION SHEET

P001

PRIMARY JOB # 22417

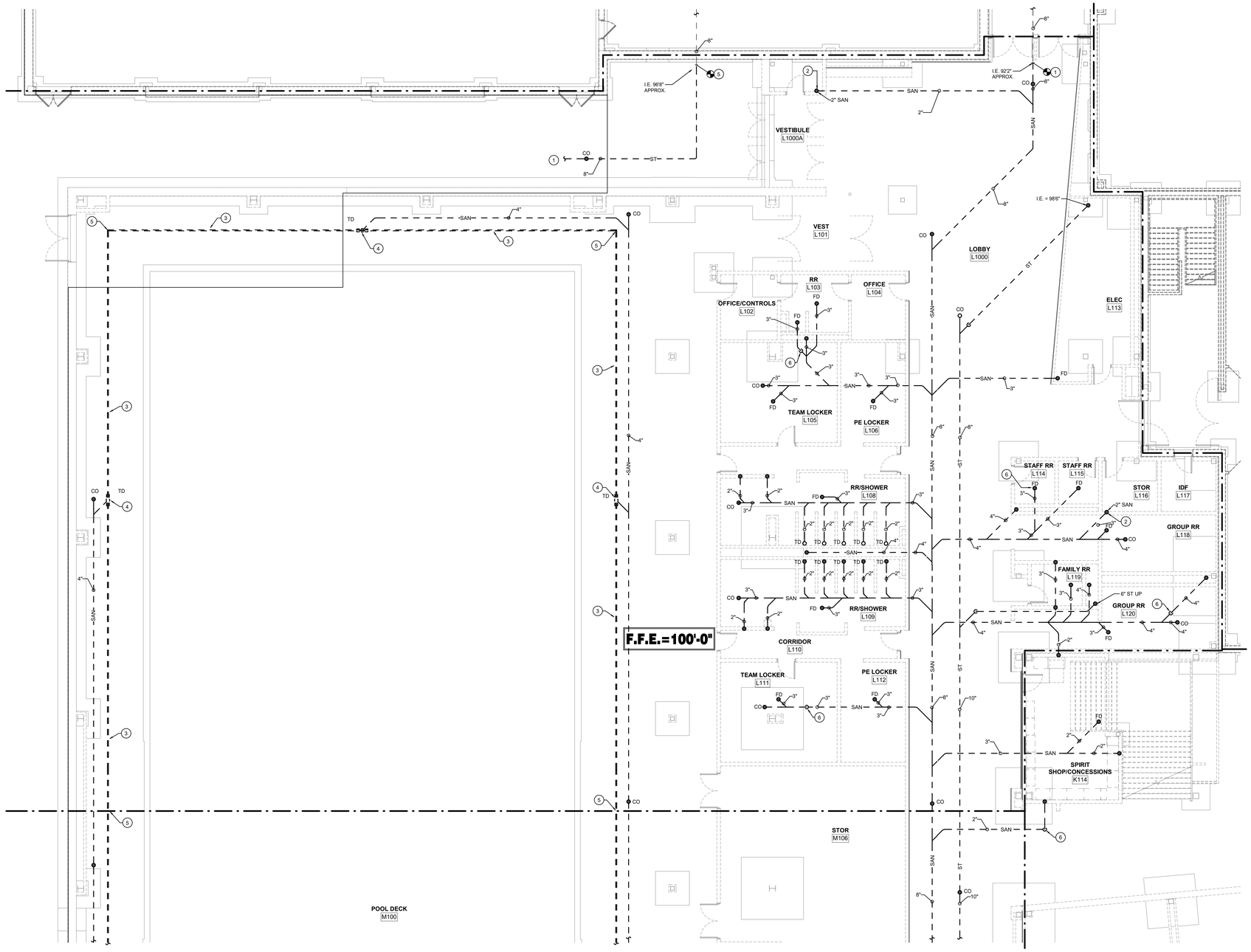
PLOT DATE/TIME: 9/6/2023 2:41:55 PM

THIS MONOCHROME PRINT SHOULD DISPLAY GRAY SHADES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

PLAN NOTES

(X)

1. REFER TO CIVIL DRAWINGS FOR CONTINUATION. COORDINATE EXACT LOCATION WITH SITE CONTRACTOR.
2. 3" SANITARY UP TO WALL BOX DRAIN FOR HVAC CONDENSATE DRAIN.
3. 2" PERIMETER REINFORCED POLYMER CONCRETE TRENCH DRAIN AT 1% SLOPE. GRATE SHALL BE 3" WIDE SLOTTED ADA DIN CLASS A THERMAL PLASTIC WITH MEDIUM DUTY STAINLESS STEEL FRAME.
4. 4 WIDE CURB BOXES WITH SEDIMENT BASKET AND BOTTOM OUTLET
5. TRENCH DRAIN HIGH POINT.
6. AT UNDERGROUND ROUGH-IN LOCATED ABOVE UNDERGROUND FOOTER, UNDERGROUND SANITARY OR STORM PIPING SHALL ROUTE ABOVE UNDERGROUND FOOTING BUT BELOW BOTTOM OF SLAB. BEYOND FOOTER, DECREASE PIPE INVERT ELEVATION TO 98'-6" MINIMUM. TYPICAL.
7. RECONNECT TO EXISTING UNDERGROUND DRAIN PIPING.



UNDERGROUND - PLUMBING PLAN - UNIT L

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

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ANDREW STEPHEN LUDWIG REGISTERED PE11700017 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
2	9/6/2023	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT:	#22130
DATE:	07-28-2023
DRAWN BY:	ASL

UNDERGROUND - PLUMBING PLAN - UNIT L

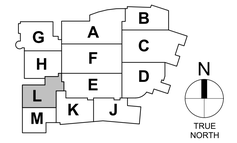
P100L

PRIMARY JOB # 22417

PLOT DATE/TIME:9/6/2023 2:42:09 PM

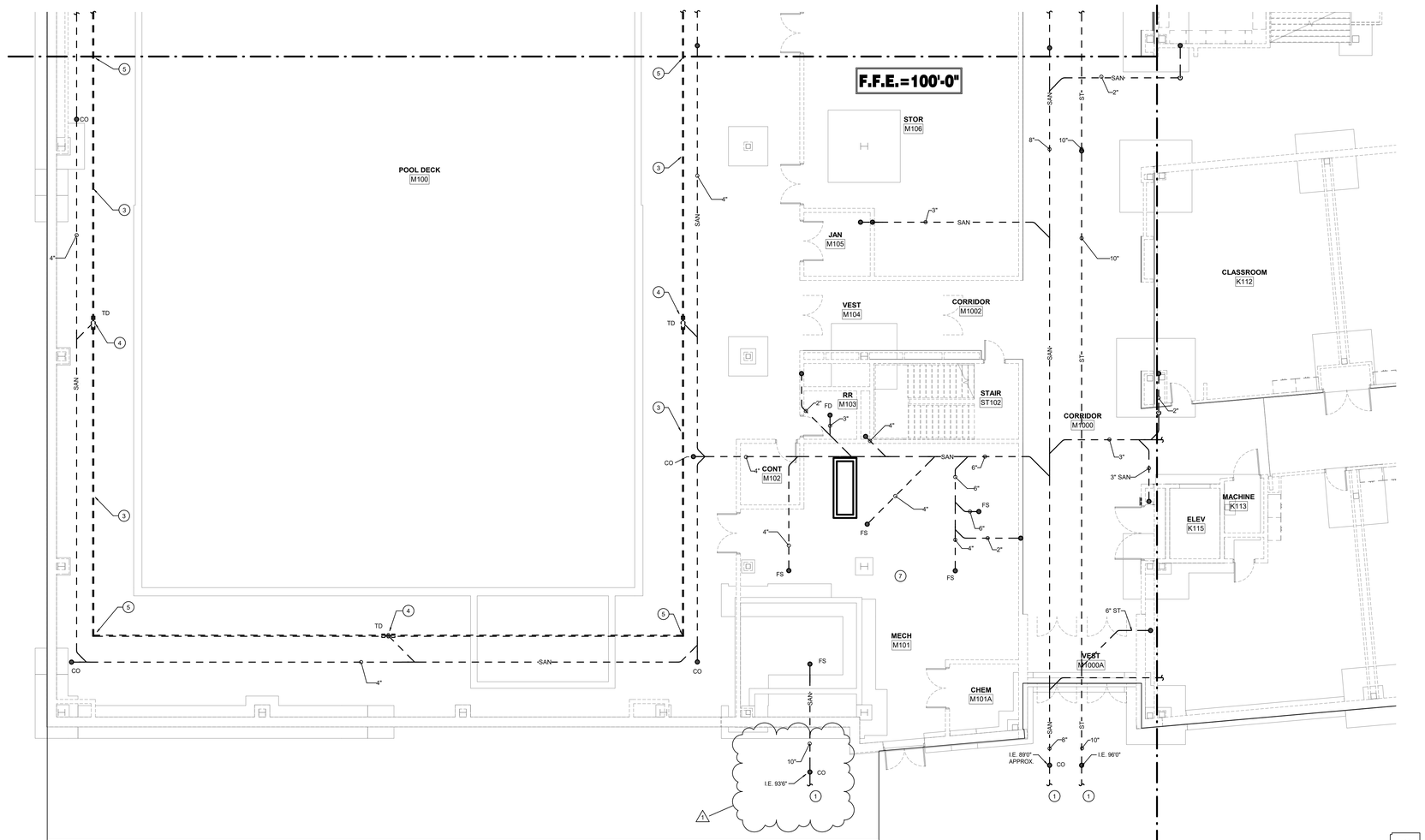
THIS MONOCHROME PRINT SHOULD DISPLAY GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

SCALE: 1/16" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1" = 1'-0"



PLAN NOTES

1. REFER TO CIVIL DRAWINGS FOR CONTINUATION. COORDINATE EXACT LOCATION WITH SITE CONTRACTOR.
2. 2" SANITARY UP TO WALL BOX DRAIN FOR HVAC CONDENSATE DRAIN.
3. 2" PERIMETER REINFORCED POLYMER CONCRETE TRENCH DRAIN AT 1% SLOPE. GRATE SHALL BE 3" WIDE SLOTTED ADA DIN CLASS A THERMAL PLASTIC WITH MEDIUM DUTY STAINLESS STEEL FRAME.
4. 4" WIDE GULLY BOXES WITH SEDIMENT BASKET AND BOTTOM OUTLET.
5. TRENCH DRAIN HIGH POINT.
6. AT UNDERGROUND ROUGH-IN LOCATED ABOVE UNDERGROUND FOOTER, UNDERGROUND SANITARY OR STORM PIPING SHALL ROUTE ABOVE UNDERGROUND FOOTING BUT BELOW BOTTOM OF SLAB. BEYOND FOOTER, DECREASE PIPE INVERT ELEVATION TO 98'-6" MINIMUM. TYPICAL.
7. COORDINATE EXACT LOCATION OF ALL SANITARY DRAINS WITH AQUATICS CONTRACTOR. REFER TO AQUATICS DRAWINGS FOR MORE INFORMATION.



1 UNDERGROUND - PLUMBING PLAN - UNIT M
SCALE: 1/8" = 1'-0"

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REVISIONS:

#	Date	Desc.
1	8/30/2023	ADDENDUM #1
2	9/6/2023	ADDENDUM #2

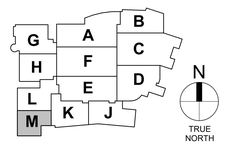
100% CONSTRUCTION DOCUMENT

PROJECT:	#22130
DATE:	07-28-2023
DRAWN BY:	ASL

UNDERGROUND - PLUMBING PLAN - UNIT M

P100M

PRIMARY JOB # 22417



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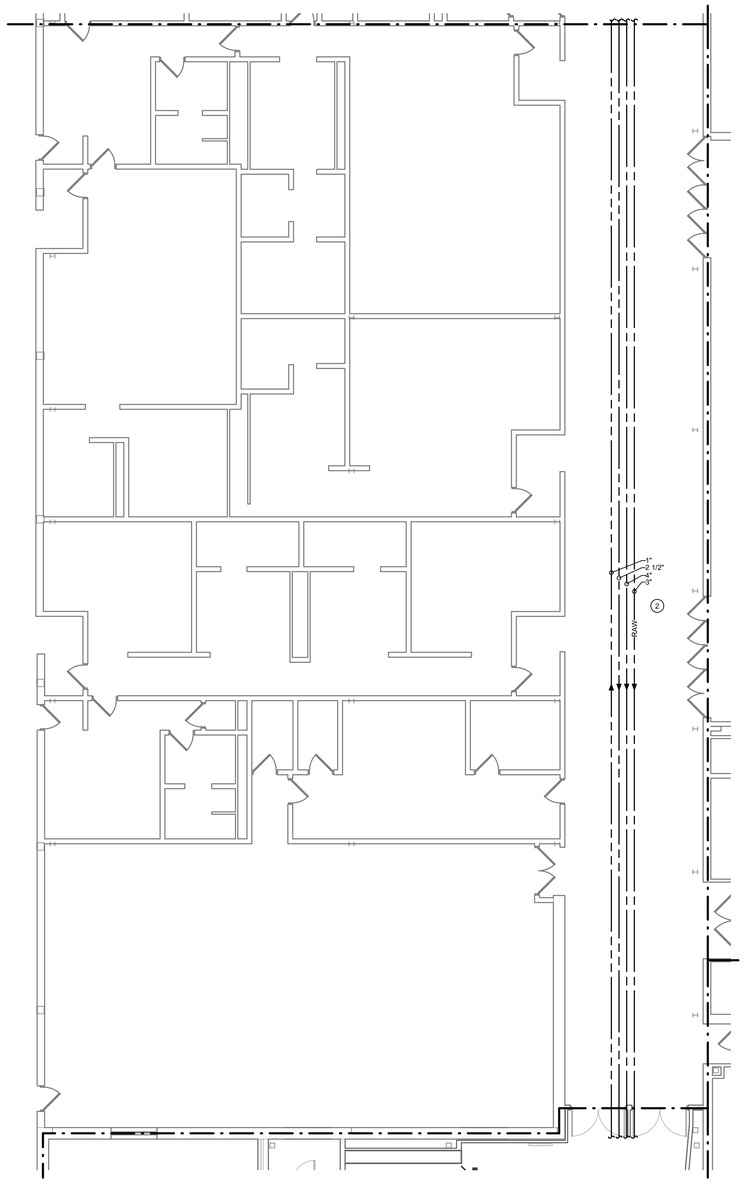
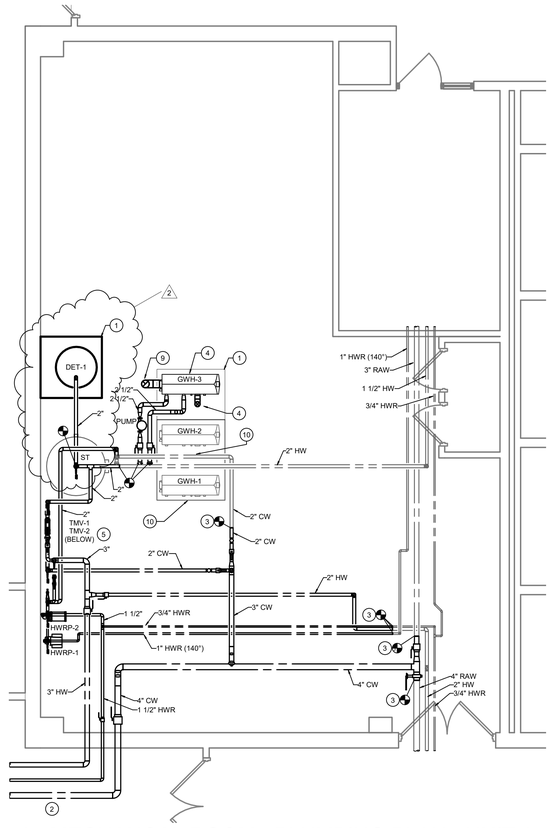
PLAN NOTES

1. PROVIDE AND INSTALL NEW 4" TALL CONCRETE HOUSEKEEPING PAD.
2. COORDINATE WITH GC TO CAREFULLY TAKE DOWN, SALVAGE, AND REINSTALL EXISTING CEILING GRID AND TILE AS REQUIRED TO GAIN ACCESS FOR PLUMBING WORK.
3. RECONNECT TO EXISTING PIPING.
4. PROVIDE AND INSTALL NEW GAS-FIRED WATER HEATER AND TIE-IN TO EXISTING STORAGE TANK SUPPLY AND RETURN PIPING. ROUTE CONDENSATE DRAIN PIPING ON FLOOR AND DISCHARGE INTO NEAREST FLOOR SINK. CUT GRATE TO RECEIVE CONDENSATE.
5. REFER TO DOMESTIC WATER FLOW DIAGRAMS FOR MORE INFORMATION.
6. TIE-IN TO EXISTING WATER SERVICE PIPING AND PROVIDE AND INSTALL NEW DOMESTIC WATER AND FIRE PROTECTION WATER ENTRANCE. REFER TO DETAILS ON PLUMBING SHEET P401 FOR MORE INFORMATION.
7. NEW WATER METER BY LOCAL UTILITY PROVIDER. COORDINATE WITH LOCAL UTILITY PROVIDER FOR EXACT REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH UTILITY PROVIDER TO SCHEDULE INSTALLATION OF NEW SERVICE.
8. PROVIDE AND INSTALL NEW DUPLEX WATER SOFTENER PER MANUFACTURER'S INSTALLATION REQUIREMENTS. ROUTE WATER SOFTENER DRAIN ON FLOOR AND DISCHARGE DIRECTLY INTO NEAREST FLOOR SINK. CUT GRATE TO RECEIVE WASTE.
9. ROUTE NEW POLYPROPYLENE VENT PIPING AND PVC INTAKE UP TO ROOF. CUT AND PATCH ROOF AS REQUIRED. MAINTAIN EXISTING ROOF WARRANTY.
10. PROVIDE NEW SUPPORTS FOR EXISTING WATER HEATER FLUES.



4 PARTIAL FIRST FLOOR - PLUMBING PLAN - UNIT H
SCALE: 1/8" = 1'-0"



3 MECHANCAL ROOM - PLUMBING PLAN - UNIT A
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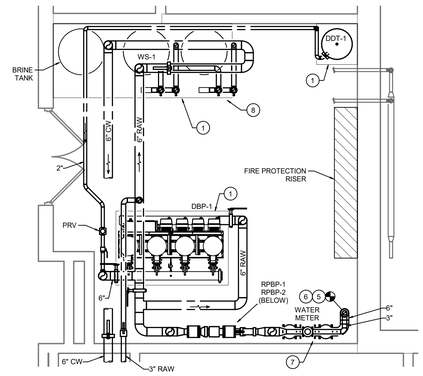

2 MECHANICAL ROOM - PLUMBING PLAN - UNIT G
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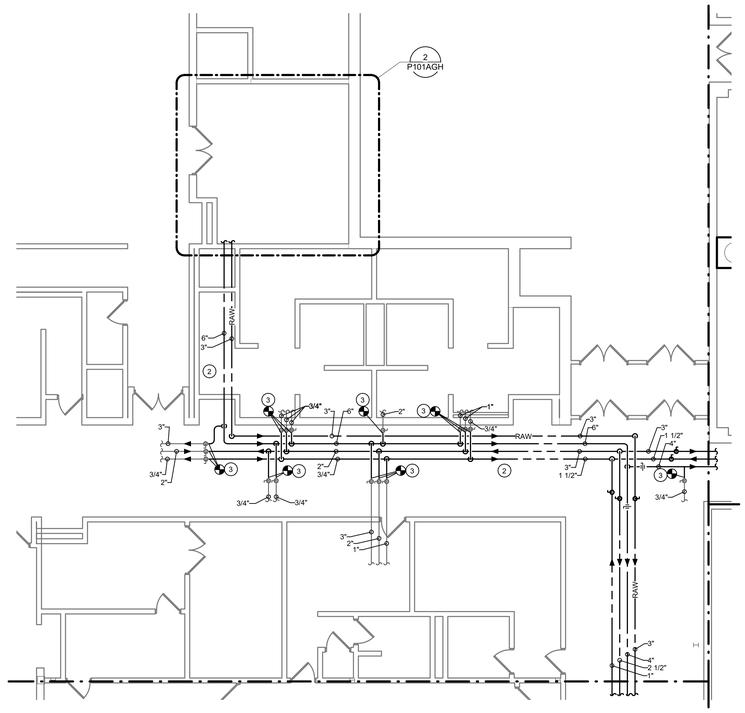
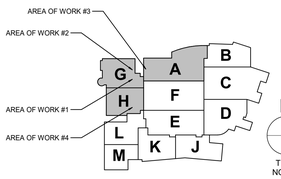


1 PARTIAL FIRST FLOOR - PLUMBING PLAN - UNIT G
SCALE: 1/8" = 1'-0"



0 16 32 48 SCALE: 1/16" = 1'-0"
0 8 16 24 32 SCALE: 3/32" = 1'-0"
0 8 16 24 SCALE: 1/8" = 1'-0"
0 4 8 12 SCALE: 1/4" = 1'-0"
0 2 4 6 SCALE: 1/2" = 1'-0"
0 2 4 SCALE: 3/4" = 1'-0"
0 1 2 3 SCALE: 1" = 1'-0"

PLOT DATE/TIME: 8/3/2023 7:42:19 PM

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STEPHEN J. LUDWIG
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REVISIONS:

#	Date	Desc.
2	08/2023	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT:	#22130
DATE:	07-28-2023
DRAWN BY:	ASL

PARTIAL FIRST FLOOR - PLUMBING PLANS - UNIT A, G AND H

P101AGH

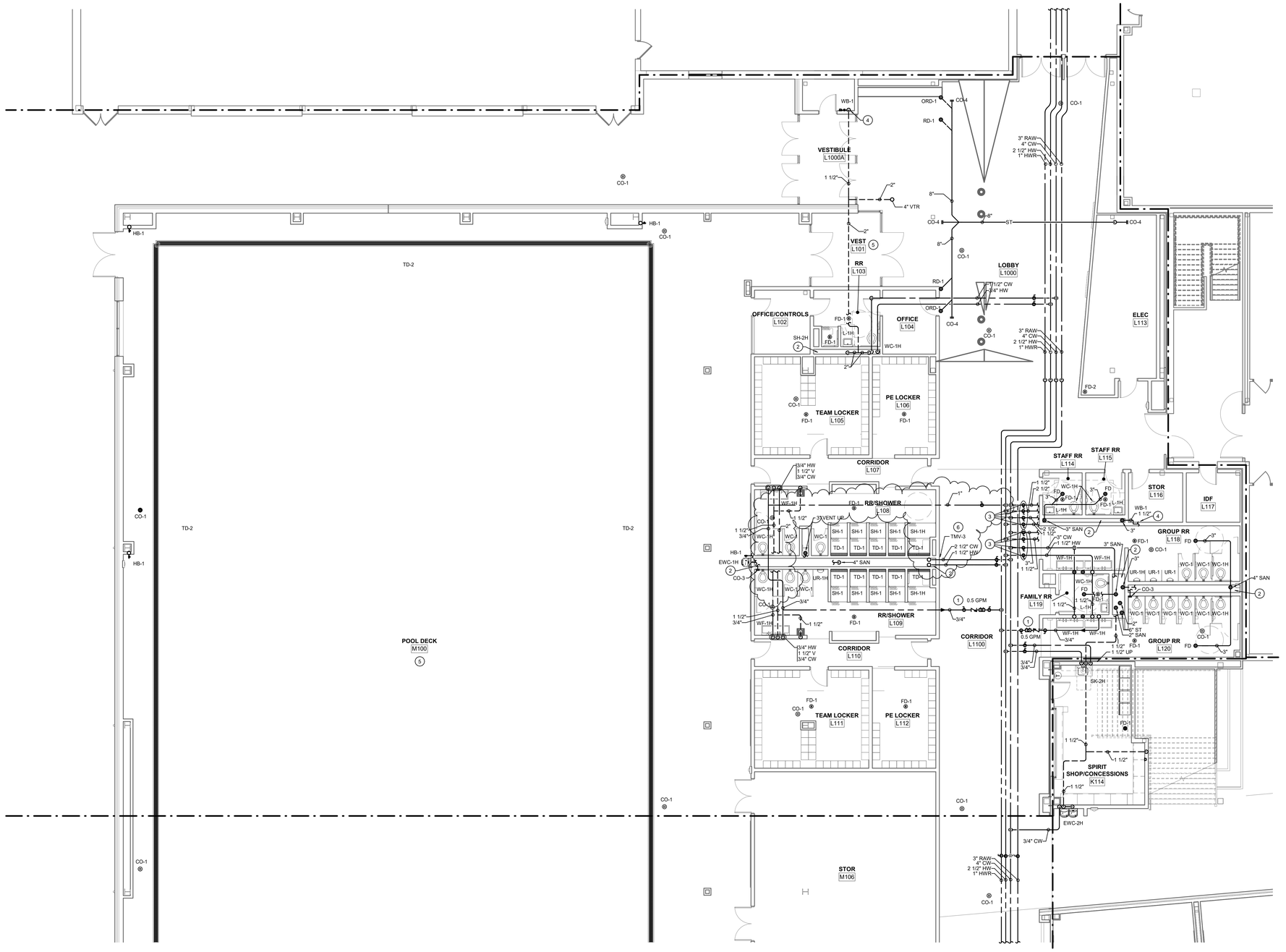
PRIMARY JOB # 22417

PLAN NOTES

(X)

1. PROVIDE AND INSTALL DOMESTIC HOT WATER BALANCING STATION. ADJUST FLOW TO GPM SHOWN. REFER TO MANUAL HOT WATER RETURN BALANCING STATION DETAIL ON DRAWING SHEET P401 FOR MORE INFORMATION.
2. ROUTE FULL SIZE DOMESTIC, SANITARY, AND VENT PIPING ENTIRE LENGTH OF CHASE AND DISTRIBUTE TO NEW PLUMBING FIXTURES. REFER TO PLUMBING FIXTURE SCHEDULE ON PLUMBING SHEET P501 FOR CONNECTION SIZES.
3. PROVIDE AND INSTALL SEPARATE ISOLATION VALVES FOR PLUMBING PIPING TO FIRST FLOOR AND SECOND FLOOR RESTROOM GROUPS.
4. PROVIDE AND INSTALL WALL BOX FOR HVAC CONDENSATE DRAIN. REFER TO DETAIL ON PLUMBING SHEET P401 FOR MORE INFORMATION.
5. ALL MATERIALS FOR PLUMBING THIS ROOM SHALL BE CORROSION RESISTANT. REFER TO SPECIFICATIONS.
6. PROVIDE AND INSTALL RECESSED MASTER SHOWER MIXING VALVE ACCESSIBLE IN HALLWAY. PIPE TEMPERED SUPPLY TO SHOWERS.

2



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REVISIONS:

#	Date	Desc.
2	9/6/2023	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

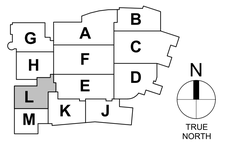
PROJECT:	#22130
DATE:	07-28-2023
DRAWN BY:	ASL

FIRST FLOOR - PLUMBING PLAN - UNIT L

P101L

PRIMARY JOB # 22417

1 FIRST FLOOR - PLUMBING PLAN - UNIT L
SCALE: 1/8" = 1'-0"



PLOT DATE/TIME: 8/5/2023 7:42:29 PM

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SCALE: 1/16" = 1'-0"

0 8 16 24 32
SCALE: 3/32" = 1'-0"

0 8 16 24
SCALE: 1/8" = 1'-0"

0 4 8 12
SCALE: 1/4" = 1'-0"

0 2 4 6
SCALE: 1/2" = 1'-0"

0 2 4
SCALE: 3/4" = 1'-0"

0 1 2 3
SCALE: 1" = 1'-0"

PLAN NOTES

(X)

1. PROVIDE AND INSTALL DOMESTIC HOT WATER BALANCING STATION. ADJUST FLOW TO GPM SHOWN. REFER TO MANUAL HOT WATER RETURN BALANCING STATION DETAIL ON DRAWING SHEET P401 FOR MORE INFORMATION.
2. ROUTE FULL SIZE DOMESTIC, SANITARY, AND VENT PIPING ENTIRE LENGTH OF CHASE AND DISTRIBUTE TO NEW PLUMBING FIXTURES. REFER TO PLUMBING FIXTURE SCHEDULE ON PLUMBING SHEET P501 FOR CONNECTION SIZES.
3. COORDINATE WITH GC TO CAREFULLY TAKE DOWN, SALVAGE, AND REINSTALL EXISTING CEILING GRID AND TILE AS REQUIRED TO GAIN ACCESS FOR PLUMBING WORK.
4. PROVIDE AND INSTALL PVC JACKETING ON EXPOSED PIPING IN FINISHED SPACE.
5. LOW VOLTAGE CONTROL VALVE FOR ISIMET UTILITY CONTROLLER SHOWN HERE FOR VISIBILITY. VALVE SHALL BE INSTALLED IN CASEWORK OF LAB TABLE ON THIRD FLOOR.
6. ROUTE PIPING UP TO SCIENCE LAB TEACHER DEMOSTRATION TABLE. REFER TO SCIENCE DEMONSTRATION DOMESTIC PIPING DETAIL AND SCIENCE ROOM GAS SERVICE PIPING DETAIL ON DRAWING SHEET P402 FOR MORE INFORMATION.

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CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

ANDREW STEPHEN LOCKWOOD BLACK
REGISTERED
PE11700017
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
2	9/6/2023	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

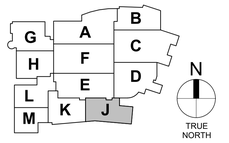
PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: ASL

SECOND FLOOR - PLUMBING PLAN - UNIT J

P102J

PRIMARY JOB # 22417

1 SECOND FLOOR - PLUMBING PLAN - UNIT J
SCALE: 1/8" = 1'-0"



PLOT DATE/TIME: 9/6/2023 2:42:39 PM

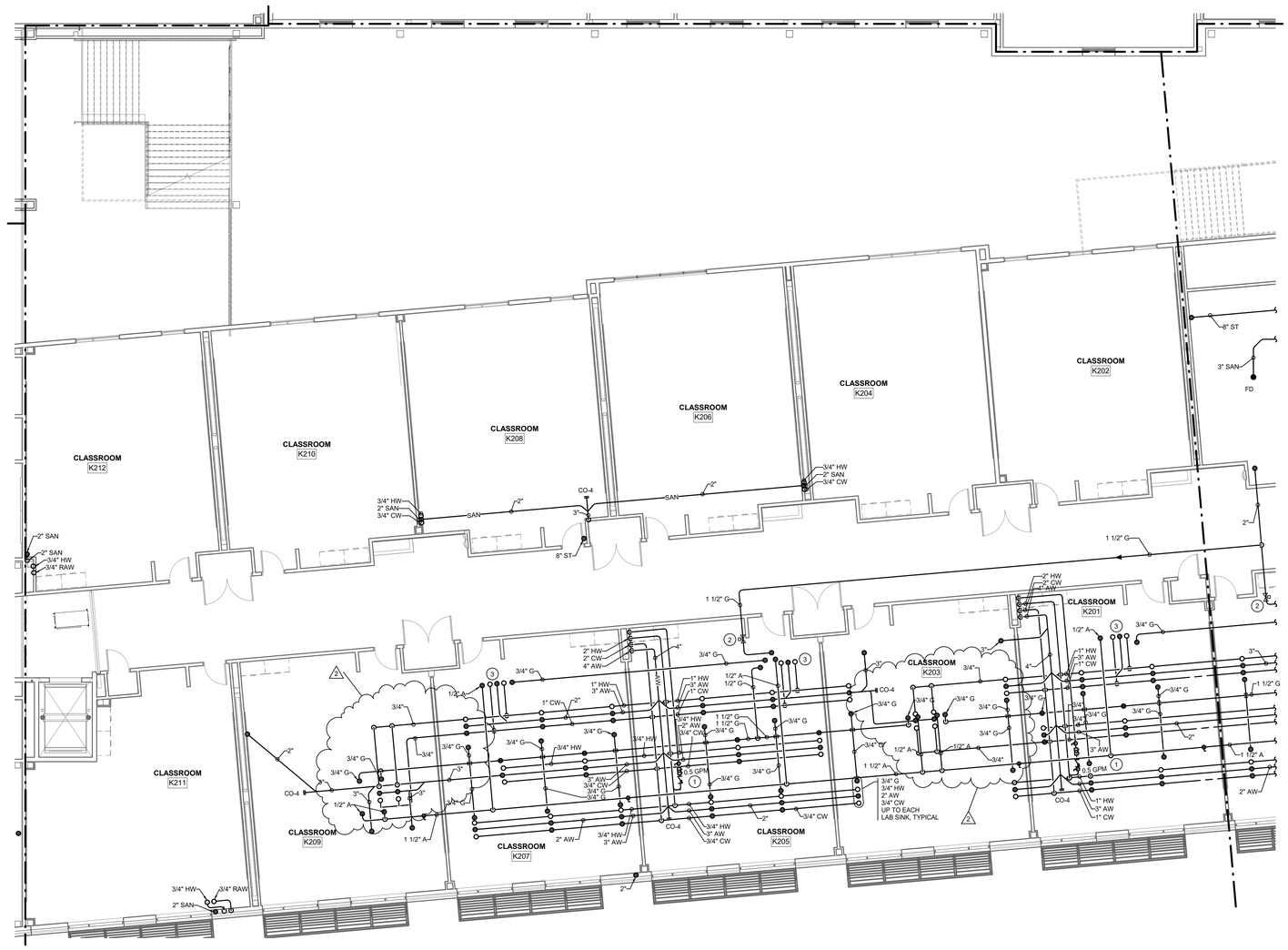
THIS MONOCHROME PRINT SHOULD DISPLAY GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

0 16 32 48 SCALE: 1/16" = 1'-0"
0 8 16 24 32 SCALE: 3/32" = 1'-0"
0 8 16 24 SCALE: 1/8" = 1'-0"
0 4 8 12 SCALE: 1/4" = 1'-0"
0 2 4 6 SCALE: 1/2" = 1'-0"
0 2 4 SCALE: 3/4" = 1'-0"
0 1 2 3 SCALE: 1" = 1'-0"

PLAN NOTES

(X)

1. PROVIDE AND INSTALL DOMESTIC HOT WATER BALANCING STATION. ADJUST FLOW TO GPM SHOWN. REFER TO MANUAL HOT WATER RETURN BALANCING STATION DETAIL ON DRAWING SHEET P401 FOR MORE INFORMATION.
2. LOW VOLTAGE CONTROL VALVE FOR ISIMET UTILITY CONTROLLER SHOWN HERE FOR VISIBILITY. VALVE SHALL BE INSTALLED IN CASEWORK OF LAB TABLE ON THIRD FLOOR.
3. ROUTE PIPING UP TO SCIENCE LAB TEACHER DEMOSTRATION TABLE. REFER TO SCIENCE DEMONSTRATION TABLE DOMESTIC PIPING DETAIL AND SCIENCE ROOM GAS SERVICE PIPING DETAIL ON DRAWING SHEET P402 FOR MORE INFORMATION.



1 SECOND FLOOR - PLUMBING PLAN - UNIT K
SCALE: 1/8" = 1'-0"

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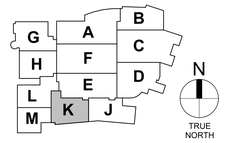
100% CONSTRUCTION DOCUMENT

PROJECT:	#22130
DATE:	07-28-2023
DRAWN BY:	ASL

SECOND FLOOR - PLUMBING PLAN - UNIT K

P102K

PRIMARY JOB # 22417



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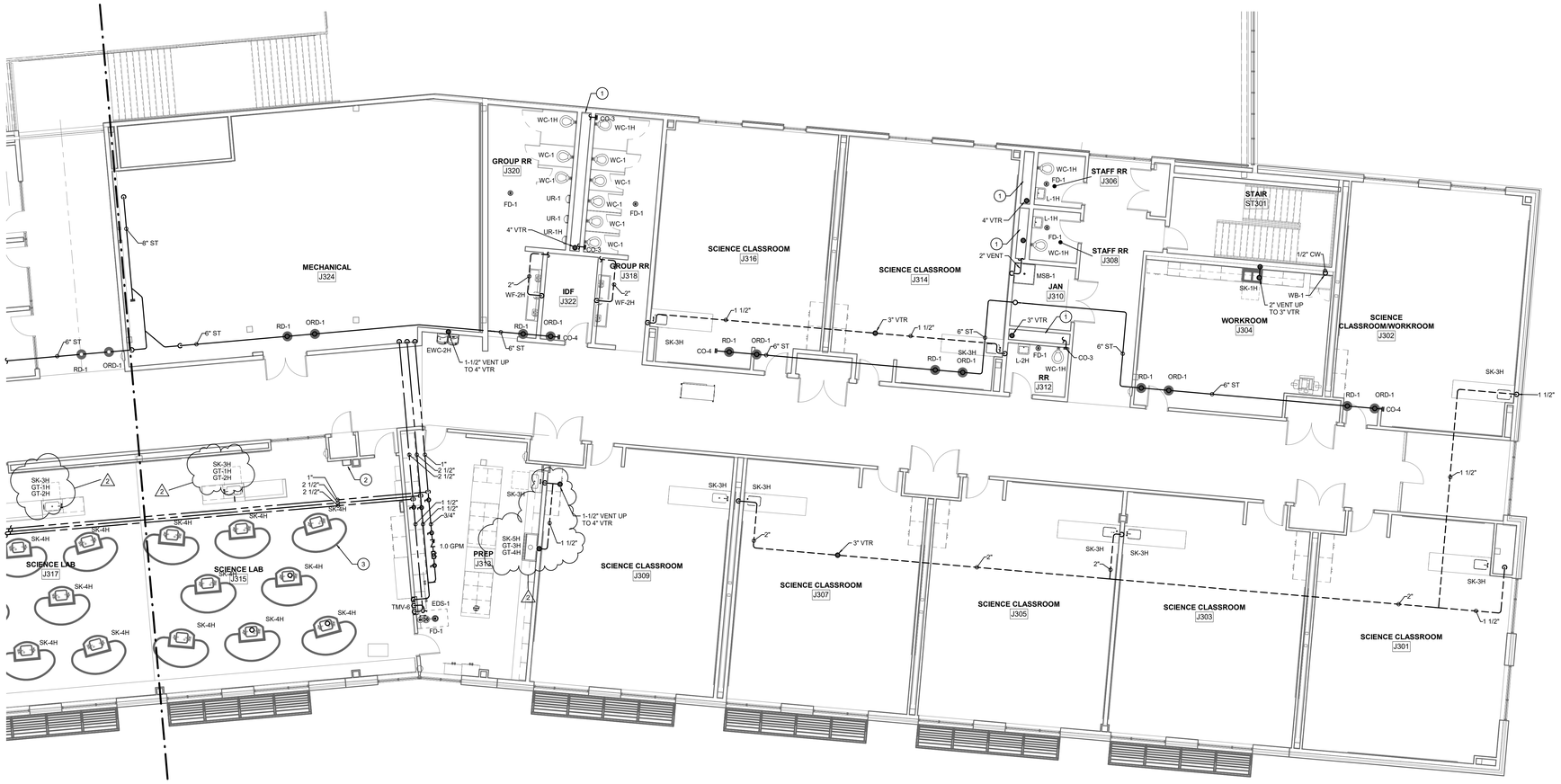
0 2 4 SCALE: 3/4" = 1'-0"
0 1 2 3 SCALE: 1" = 1'-0"

PLAN NOTES

(X)

1. ROUTE FULL SIZE DOMESTIC, SANITARY, AND VENT PIPING ENTIRE LENGTH OF CHASE AND DISTRIBUTE TO NEW PLUMBING FIXTURES. REFER TO PLUMBING FIXTURE SCHEDULE ON PLUMBING SHEET P001 FOR CONNECTION SIZES.
2. PROVIDE AND INSTALL ISIMET UTILITY CONTROLLER WITH REMOTE PLUNGER AT EACH DOOR TO SCIENCE LAB.
3. PROVIDE AND INSTALL AIR ADMITTANCE VALVE IN ACCESSIBLE LOCATION WITHIN CASEWORK FOR ISLAND FIXTURES. TYPICAL. COORDINATE EXACT PLUMBING ROUGH-IN LOCATION AND REQUIREMENTS WITH GC. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.



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REVISIONS:

#	Date	Desc.
2	9/6/2023	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT:	#22130
DATE:	07-28-2023
DRAWN BY:	ASL

THIRD FLOOR - PLUMBING PLAN - UNIT J

P103J

PRIMARY JOB # 22417

PLOT DATE/TIME:9/6/2023 2:42:53 PM

THIS MONOCHROME PRINT SHOULD DISPLAY GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

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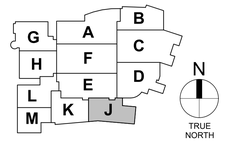
SCALE: 1" = 1'-0"

1 THIRD FLOOR - PLUMBING PLAN - UNIT J
SCALE: 1/8" = 1'-0"

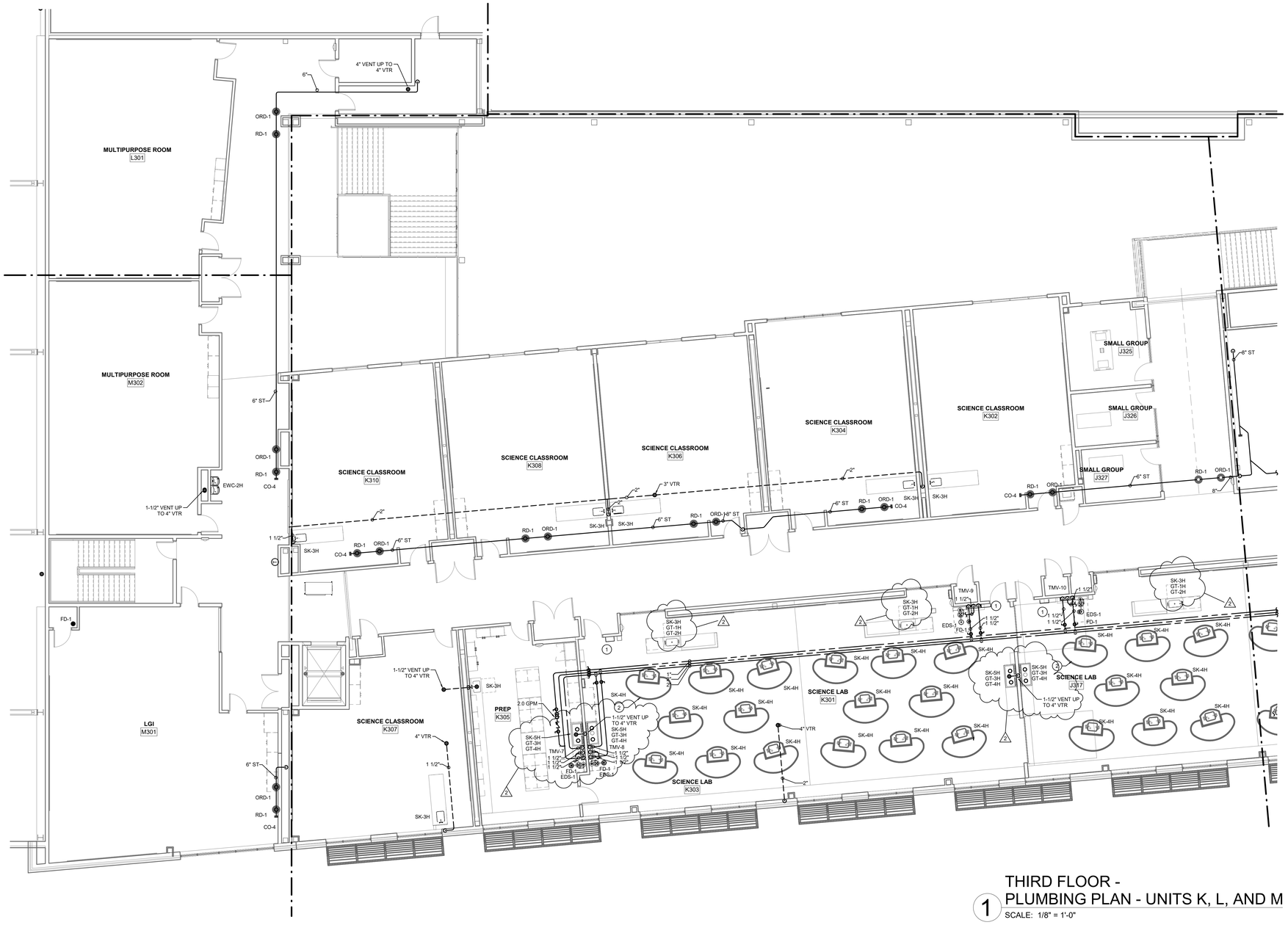


UNLESS NOTED OTHERWISE, IN SPACES WITH NO CEILINGS OR WITH CEILING CLOUDS, PROVIDE AND INSTALL WHITE PAPER ASJ ON ALL PIPING INSULATION FOR FIELD PAINTING BY GENERAL CONTRACTOR. COORDINATE WITH GENERAL CONTRACTOR. COLOR SELECTION BY ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

PLAN NOTES

(X)

1. PROVIDE AND INSTALL ISIMET UTILITY CONTROLLER WITH REMOTE PLUNGER AT EACH DOOR TO SCIENCE LAB.
2. PROVIDE AND INSTALL AIR ADMITTANCE VALVE IN ACCESSIBLE LOCATION WITHIN CASEWORK FOR ISLAND FIXTURES. TYPICAL. COORDINATE EXACT PLUMBING ROUGH-IN LOCATION AND REQUIREMENTS WITH GC. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.



1 THIRD FLOOR - PLUMBING PLAN - UNITS K, L, AND M

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

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PROJECT:	#22130
DATE:	07-28-2023
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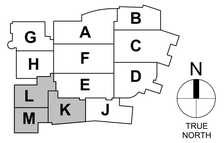
THIRD FLOOR - PLUMBING PLAN - UNITS K, L, AND M

P103KLM

PRIMARY JOB # 22417



PLOT DATE/TIME: 9/6/2023 2:43:04 PM

THIS MONOCHROME PRINT SHOULD DISPLAY GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

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THERMOSTATIC MIXING VALVE SCHEDULE

TAG	MFR.	MODEL	MIN FLOW (GPM)	MAX FLOW (GPM)	P.D. (PSI)	INLETS (IN)	OUTLET (IN)	SETPOINT (DEG F)	ASSE CERT.	CABINET	SERVICE	REMARKS
TMV-1	LAWLER	802	2	39	10	1	1 1/4	120	1017	NA	DOMESTIC HOT WATER	1, 2
TMV-2	LAWLER	802	2	39	10	1	1 1/4	120	1017	NA	DOMESTIC HOT WATER	1, 2
TMV-3	LAWLER	6625	3.75	12	10	3/4	3/4	110	1017	SS	LOCKER ROOM SHOWERS	1, 2, 3
TMV-4	LAWLER	911 - 84708	25	35	10	1 1/4	1 1/4	85	1071	NA	MECH M101	4
TMV-5	LAWLER	911 - 84708	25	35	10	1 1/4	1 1/4	85	1071	NA	BOILER ROOM	4
TMV-6	LAWLER	911 - 84708	25	35	10	1 1/4	1 1/4	85	1071	NA	PREP J313	4
TMV-7	LAWLER	911 - 84708	25	35	10	1 1/4	1 1/4	85	1071	NA	PREP K305	4
TMV-8	LAWLER	911 - 84708	25	35	10	1 1/4	1 1/4	85	1071	NA	SCIENCE LAB K303	4
TMV-9	LAWLER	911 - 84708	25	35	10	1 1/4	1 1/4	85	1071	NA	SCIENCE LAB K301	4
TMV-10	LAWLER	911 - 84708	25	35	10	1 1/4	1 1/4	85	1071	NA	SCIENCE LAB J317	4

REMARKS:
1. MAINTAIN SETPOINT TEMPERATURE TO WITHIN 3 DEG F, DOWN TO A MINIMUM FLOW RATE OF 0.5 GPM
2. PROVIDE AND INSTALL WITH INTEGRAL CHECK STOPS.
3. PROVIDE AND INSTALL WITH INTEGRAL BALL VALVES, PIPE UNIONS, THERMOMETER, AND STAINLESS STEEL CABINET.
4. SHALL COMPLY WITH ANSI Z358.1, FAIL TO FULL COLD FLOW, MAINTAIN +/- 3 DEG.

PLUMBING PUMP SCHEDULE

TAG	MFR.	MODEL	FLOW (GPM)	HEAD (FT)	MOTOR (HP)	MOTOR (BHP)	EFF (+/- 5%)	RPM	ELEC (V/PH)	SERVICE	REMARKS
HWRP-1	BELL & GOSSETT	ECOCIRC XL 110-180	6	55	3.0	-	-	2880	460/3	DOM HW 140 RECIRC	1, 2, 3
HWRP-2	BELL & GOSSETT	E-90 1AAB	30	100	3	1.54	-	3360	460/3	DOM HW 110 RECIRC	1, 2, 3

REMARKS:
1. ALL LEAD-FREE BRONZE OR STAINLESS STEEL CONSTRUCTION.
2. PROVIDE AND INSTALL WITH STRAP-ON AQUASTAT SENSOR WIRED TO CONTROL PUMP, ON AT 100 DEG F/OFF AT 120 DEG F.
3. PROVIDE AND INSTALL WITH ISOLATION BALL VALVES, DISCHARGE CHECK VALVE, MANUAL BALANCE VALVE, AND PRESSURE TAPS IN AND OUT.

INTERCEPTOR SCHEDULE

TAG	MFR.	MODEL	SERVICE	LIQ CAP (GAL)	MAX WATER TEMP (DEG F)	SIZE LxWxH (IN)	PIPE CONN (IN)	REMARKS
ANT-1	STRIEM	LB-275	SCIENCE LABS	250	140	68 x 33 x 51-1/2	4	1, 2
ANT-2	STRIEM	LB-15	BOILERS	15	140	25 x 19 x 14-1/4	2	1, 2
ANT-3	STRIEM	LB-15	POOL HEATER	15	140	25 x 19 x 14-1/4	2	1, 2

REMARKS:
1. PROVIDE AND INSTALL WITH FULL TANK OF MINIMUM 90% CALCIUM CARBONATE LIMESTONE MEDIA.
2. REFER TO DRAWING DETAILS FOR MORE INFORMATION.

BACKFLOW PREVENTER SCHEDULE

TAG	MFR.	MODEL	SERVICE	TYPE	SIZE (IN)	STRAINER	REMARKS
RPBP-1	WILKINS	375-FSC-OSY	DOMESTIC	REDUCED PRESSURE	4	YES	1, 2, 3
RPBP-2	WILKINS	375-FSC-OSY	DOMESTIC	REDUCED PRESSURE	4	YES	1, 2, 3

REMARKS:
1. SHALL MEET REQUIREMENTS OF NSF/ANSI 61 FOR LEAD FREE POTABLE SERVICE.
2. PROVIDE WITH AIR GAP DRAIN CUP ASSEMBLY, PIPED TO FLOOR DRAIN.
3. PROVIDE WITH EXPOXY COATED WATER WAY.

PLUMBING FIXTURE SCHEDULE

TAG	MFR.	MODEL	TRIM MFR.	TRIM MODEL	FLOW RATE (GPF OR GPM)	TRIM TYPE	WASTE	VENT	CW	HW	COLOR	REMARKS
WC-1	AMERICAN STD.	2257.101	SLOAN	ROYAL 111	1.6	MANUAL FLUSH VALVE	3"	2"	1"	-	WHITE	1, 2
WC-1H	AMERICAN STD.	2257.101	SLOAN	ROYAL 111	1.6	MANUAL FLUSH VALVE	3"	2"	1"	-	WHITE	1, 2
UR-1	AMERICAN STD.	6590.001	SLOAN	ROYAL 186	0.5	MANUAL FLUSH VALVE	2"	1-1/4"	1"	-	WHITE	1
UR-1H	AMERICAN STD.	6590.001	SLOAN	ROYAL 186	0.5	MANUAL FLUSH VALVE	2"	1-1/4"	1"	-	WHITE	1
L-1H	AMERICAN STD.	0355.012	CHICAGO	802-E34-1000XKABCP	1.5	2" WING HANDLES	1-1/4"	1-1/4"	1/2"	1/2"	WHITE	1, 3, 4, 5, 6
L-2H	AMERICAN STD.	0355.012	CHICAGO	802-665ABCP	2.2	METERING PUSH HANDLE	1-1/4"	1-1/4"	1/2"	1/2"	WHITE	1, 3, 4, 5, 6
SK-1H	ELKAY	LRAD3119SS	CHICAGO	1100-317XKABCP	2.2	4" WRISTBLADE	2"	1-1/2"	3/4"	3/4"	STAINLESS	3, 5, 6
SK-2H	ELKAY	ELUHADTL1446	CHICAGO	526-XKABCP	2.2	2-3/8" LEVER HANDLES	2"	1-1/2"	3/4"	3/4"	STAINLESS	3, 5, 6
SK-3H	ELKAY	ELUHAD211545PD	CHICAGO	LWM2-B11-F	2.2	2-1/2" CROSS HANDLES	2"	1-1/2"	3/4"	3/4"	STAINLESS	3, 6, 7
SK-4H	-	-	-	-	-	-	2"	1-1/2"	3/4"	3/4"	-	3, 7, 8
SK-5H	-	-	CHICAGO	943-317CP	2.2	4" WRISTBLADE	2"	1-1/2"	3/4"	3/4"	CHROME	3, 6, 7
WF-1H	BRADLEY	LYR04	CHICAGO	(2) 802-665ABCP	2.2	METERING PUSH HANDLE	1-1/2"	1-1/2"	3/4"	3/4"	-	1, 4, 5, 9
WF-2H	BRADLEY	LYR03	CHICAGO	(2) 802-665ABCP	2.2	METERING PUSH HANDLE	1-1/2"	1-1/2"	3/4"	3/4"	-	1, 3, 4, 5, 9
EWC-1H	ELKAY	EMABFDWSSK	-	SINGLE W/ BOTTLE FILL	-	MECH VALVE	1-1/4"	1-1/4"	1/2"	-	STAINLESS	1, 10
EWC-2H	ELKAY	EMABFTLDWSSK	-	HIGH-LOW W/ BOTTLE FILL	-	MECH VALVE	1-1/4"	1-1/4"	1/2"	-	STAINLESS	1, 10
SH-1	-	-	SYMMONS	H901S	2.0	HYDA PIPE	2"	1-1/2"	1/2"	1/2"	STAINLESS	11
SH-1H	-	-	SYMMONS	H902S	2.0	ADA HYDA PIPE	2"	1-1/2"	1/2"	1/2"	STAINLESS	12, 14
SH-2H	-	-	SYMMONS	H902S	2.0	ADA HYDA PIPE	2"	1-1/2"	1/2"	1/2"	STAINLESS	13, 14
MSB-1	FIAT	MSB2424	CHICAGO	(1) 897-CP & (1) 998-RCF	1.5	DUAL HANDLE	3"	1-1/2"	1/2"	1/2"	WHITE	15
SS-1	FIAT	SF1W	CHICAGO	526-XKABCP	2.2	2-3/8" LEVER HANDLES	2"	1-1/2"	3/4"	3/4"	WHITE	3, 5, 6
SS-2	FIAT	FL1	CHICAGO	526-XKABCP	2.2	2-3/8" LEVER HANDLES	2"	1-1/2"	3/4"	3/4"	WHITE	3, 5, 6
EDS-1	HAWS	B336	-	-	20	-	-	-	-	1-1/4"	PVC	-
WH-1	WOODFORD	B67	-	-	-	WALL RECESSED	-	-	3/4"	-	CHROME	-
RH-1	WOODFORD	SRH-MS	-	-	-	ROOF HYDRANT	-	-	3/4"	-	PAINTED	-
HB-1	CHICAGO	998-RCF	-	-	-	-	-	-	3/4"	-	CHROME	-
WB-1	IPS CORP	AB1200HA	82930	-	-	-	-	-	1/2"	-	WHITE	16
WB-2	IPS CORP	MB1200HA	82914	-	-	-	2"	-	1/2"	1/2"	WHITE	16
FD-1	JR SMITH	2005Y-A05	CAST IRON	2692 TRAP SEAL	-	ROUND TOP	-	-	-	-	NIKALOY	17
FD-2	JR SMITH	2000Y-F37	CAST IRON	2692 TRAP SEAL	-	EXTENDED RIM	-	-	-	-	NIKALOY	17
FS-1	JR SMITH	3100Y	CAST IRON	2692 TRAP SEAL	-	-	-	-	-	-	NIKALOY	17
FS-2	JR SMITH	305	PLASTIC	2692 TRAP SEAL	-	-	-	-	-	-	PVC	17
CO-1	JR SMITH	4024S	CAST IRON	-	-	FLOOR ROUND	-	-	-	-	NIKALOY	17
CO-2	JR SMITH	4254S	CAST IRON	-	-	EXTERIOR	-	-	-	-	CAST IRON	17
CO-3	JR SMITH	4532Y-SS	CAST IRON	-	-	WALL W/COVER	-	-	-	-	STAINLESS	17
CO-4	JR SMITH	4422-SS	CAST IRON	-	-	END FERRULE	-	-	-	-	CAST IRON	17
RD-1	JR SMITH	1010Y-AD-RDP	ALUM	-	-	-	-	-	-	-	CAST IRON	17
ORD-1	JR SMITH	1080Y-AD-RDP	ALUM	-	-	-	-	-	-	-	CAST IRON	17
TD-1	DURA TRENCH	DTPF2	SHOWER	ADA STAINLESS HEELPROOF GRATE	-	-	2"	-	-	-	STAINLESS	17
TD-2	DURA TRENCH	DTPF2Y	NATATORIUM	ADA PLASTIC	-	-	2"	-	-	-	GRAY	17
TD-3	DURA TRENCH	DTPF18	COOLING TOWER	DUCTILE IRON SLOTTED	-	-	4"	-	-	-	DUCTILE IRON	17
GT-1H	-	-	CHICAGO	981-909-957-3KAGV	-	NATURAL GAS	-	-	-	-	CHROME	-
GT-2H	-	-	CHICAGO	981-909-957-3KAGV	-	COMPRESSED AIR	-	-	-	-	CHROME	-
GT-3H	-	-	CHICAGO	986-WSV909AGVSAM	-	NATURAL GAS	-	-	-	-	CHROME	-
GT-4H	-	-	CHICAGO	986-WSV909AGVSAM	-	COMPRESSED AIR	-	-	-	-	CHROME	-

REMARKS:
1. PROVIDE AND INSTALL WITH FLOOR MOUNTED FIXTURE CARRIER.
2. PROVIDE AND INSTALL WITH HEAVYTY DUTY, WHITE, ELONGATED, SOLID PLASTIC OPEN FRONT SEAT.
3. PROVIDE AND INSTALL WITH CHICAGO LOOSE KEY ANGLE STOP AND SUPPLY RISER.
4. PROVIDE AND INSTALL WITH OFFSET DRAIN AND INSULATION KIT ON ALL WASTE AND SUPPLY PIPING. TRUEBRO OR APPVD EQUAL.
5. PROVIDE AND INSTALL WITH 17 GA. CAST BRASS P-TRAP W/ CO AND GRID STRAINER.
6. PROVIDE AND INSTALL WITH CERAMIC CARTRIDGES.
7. PROVIDE AND INSTALL WITH ORION BLUELINE POLYPROPYLENE P-TRAP W/ CO AND GRID STRAINER.
8. INTEGRAL FIXTURE PROVIDED WITH CASEWORK. COORDINATE WITH GC.
9. COLOR SELECTION BY ARCHITECT.
10. PROVIDE WATER COOLER WITHOUT ANY INLINE FILTERS.
11. PROVIDE AND INSTALL WITH SINGLE SUPPLY METERING SHUTOFF.
12. PROVIDE AND INSTALL WITH SINGLE SUPPLY MANUAL SHUTOFF.
13. PROVIDE AND INSTALL WITH PRESSURE BALANCING DUAL SUPPLY MANUAL SHUTOFF,
14. PROVIDE AND INSTALL WITH 60" HOSE AND HAND SHOWER, FIXED HEAD SHOWER, DIVERTING VALVE, INTEGRAL SERVICE STOPS, AND 30" SLIDEBAR.
15. PROVIDE AND INSTALL WITH STAINLESS STEEL STRAINER, STAINLESS STEEL BUMPER GUARDS, STAINLESS STEEL WALL GUARD, MOP BRACKET, HOSE, AND CHICAGO SILLCOCK 998-XKRCF. REFER TO DRAWING DETAILS FOR MORE INFORMATION.
16. PROVIDE AND INSTALL WITH INTEGRAL PISTON TYPE WATER HAMMER ARRESTOR(S).
17. REFER TO PLANS FOR SIZES.

NOTES:
1. "-H" DESIGNATES HANDICAP ACCESSIBLE FIXTURES.

GAS WATER HEATER SCHEDULE

TAG	MFR.	MODEL	TANK MODEL	TANK VOL (GAL)	TANK DIM (DIA x HT)	EFF (%)	GAS INPUT (MBH)	RECOVERY (GPH)	BURNER TURNDOWN	NAT GAS PRES....	GAS CONN (IN)	WATER CONN (IN)	FLUE CONN (IN)	FLUE MATL.	WT. (LB)	ELEC (V/PH)	ELEC (AMPS)	REMARKS
GWH-3	LOCHINVAR	AWH800NPM	-	-	-	98	800	950	10:1	4 - 11	1-1/4	2	6	POLYPROPYLENE	433	120/1	9.4	1, 2, 3, 4, 5, 6, 7, 8

REMARKS:
1. PROVIDE AND INSTALL WITH T&P RELIEF VALVE.
2. ALL TANKS SHALL BE ASME STAMPED.
3. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT.
4. PROVIDE WITH CON-X-US REMOTE CONNECTIVITY KIT.
5. PROVIDE WITH TANK RECIRCULATION PUMP SELECTED FOR 12 TO 15 GRAINS RANGE FROM MFR, WIRED TO PUMP CONTROL RELAY ON WATER HEATER.
6. INSTANTANEOUS FLOW RATE AT 67 DEG TEMP RISE.
7. PROVIDE WITH DESCALING/FLUSHING KIT WITH 5 GAL BUCKET, SUMP PUMP, (2) STAINLESS BRAIDED HOSES WITH HOSE CONNECTIONS, (1) GALLON DESCALER SOLUTION.
8. PROVIDE WITH FLUSHING PIPE CONNECTION FITTINGS AT INLET AND OUTLET OF HEATER TO ALLOW DESCALING WITHOUT BREAKING PIPE CONNECTIONS.

WATER SOFTENER SCHEDULE

TAG	MFR.	MODEL	TYPE	MAX FLOW (GPM)	NOM. FLOW (GPM)	DAILY WATER USAGE (GPD)	MAX WPD (PSI)	RESIN CAPACITY (GRAINS/TANK)	RESIN VOLUME (CU.FT./TANK)	SALT STORAGE (LBS)	INCOMING HARDNESS (GRAINS)	INCOMING IRON (PPM)	REGEN. EFF.	ELEC (V/PH)	REMARKS
WS-1	CULLIGAN	CSM 600-3 PF	DUPLEX ALT.	600	400	15,000	15	600,000	20	300	22	0.08	2	120/1	1, 2, 3

REMARKS:
1. PROVIDE AND INSTALL WITH DEMAND USE REGENERATION WITH ULTRASONIC FLOW METERS AND FULLY ELECTRONIC CONTROLS.
2. FLOW METERS SHALL BE ULTRASONIC STYLE WITH MINIMUM PIPE DIAMETER REQUIREMENTS. DO NOT USE TURBINE WHEELS.
3. PROVIDE WITH FULL TANK OF SALT WITH AN ADDITIONAL 100% IN BAGS STORED ON PALLET FOR OWNER.

GAS REGULATOR SCHEDULE

TAG	MFR.	MODEL	CAPACITY (CFH)	TURNDOWN	INLET (PSI)	INLET SIZE (IN)	OUTLET (IN WC)	OUTLET SIZE (IN)	EQUIP SERVED	REGULATOR LOCATION	REMARKS
GR-1	PIETRO FIORENTINI	31155OPD	6000	500:1	5	2	14	2	B-1	INTERIOR	1, 2, 3
GR-2	PIETRO FIORENTINI	31155OPD	6000	500:1	5	2	14	2	B-2	INTERIOR	1, 2, 3
GR-3	PIETRO FIORENTINI	31155OPD	6000	500:1	5	2	14	2	B-3	INTERIOR	1, 2, 3
GR-4	PIETRO FIORENTINI	31155OPD	6000	500:1	5	2	14	2	B-4	INTERIOR	1, 2, 3
GR-5	PIETRO FIORENTINI	31153OPD	2500	500:1	5	1 1/4	14	1 1/4	EXISTING KITCHEN	INTERIOR	1, 2, 3
GR-6	PIETRO FIORENTINI	31153OPD	2400	500:1	5	1 1/4	14	1 1/4	NEW AND EXISTING GWH	INTERIOR	1, 2, 3
GR-7	PIETRO FIORENTINI	31051OPD	320	500:1	5	1/2	14	1/2	EXISTING UNIT A SCIENCE LAB	INTERIOR	1, 2, 3
GR-8	PIETRO FIORENTINI	31152OPD	1200	500:1	5	1	14	1	DHU-1	EXTERIOR	2, 3
GR-9	PIETRO FIORENTINI	31152OPD	1200	500:1	5	1	14	1	DHU-2	EXTERIOR	2, 3
GR-10	PIETRO FIORENTINI	31051OPD	400	500:1	5	1/2	14	1/2	DOAS-2	EXTERIOR	2, 3
GR-11	PIETRO FIORENTINI	31051OPD	450	500:1	5	1/2	14	1/2	UNIT J AND K SCIENCE LABS	EXTERIOR	2, 3

REMARKS:
1. PROVIDE AND INSTALL WITH VENT PIPED TO EXTERIOR.
2. VERIFY EXACT REGULATOR SIZE BASED ON ACTUAL EQUIPMENT INSTALLED PRIOR TO ORDERING.
3. PROVIDE WITH EXTERNAL DOWNSTREAM CONTROL LINE, FIELD INSTALLED.

DOMESTIC BOOSTER PUMP SCHEDULE

TAG	MFR.	MODEL	TOTAL FLOW (GPM)	TOTAL HEAD (FT)	ENTERING PRESS. (PSI)	LEAVING PRESS. (PSI)	PUMP QTY	MOTOR (HP, EA)	PUMP RPM	ELEC (V/PH)	FLA	REMARKS
DBP-1	BELL & GOSSETT	e-SV	400	138	25	80	4	15.0	3600	460/3	85	1, 2, 3, 4, 5

REMARKS:
1. PROVIDE AND INSTALL WITH SKID MOUNTED PREPIPED AND FACTORY WIRED SYSTEM.
2. PROVIDE INDIVIDUAL ISOLATION VALVES AND PRV'S FOR EACH PUMP.
3. PROVIDE AND INSTALL WITH FACTORY WIRED CONTROL PANEL WITH PRESSURE SENSORS, PRESSURE GAUGES, STARTERS, STATUS LIGHTS, AND DISCONNECT SWITCH.
4. PANEL SHALL BE WIRED FOR A SINGLE POINT ELECTRICAL CONNECTION.
5. PROVIDE AND INSTALL WITH WESSELS FXA-200 PRESSURE TANK.

NOTES:
1. QUADPLEX WITH (1) REDUNDANT PUMP, (3) PUMPS OPERATE IN PARALLEL AT COMBINED FLOW OF 400 GPM AND 138 FEET OF HEAD.

PLUMBING THERMAL EXPANSION TANK SCHEDULE

TAG	MFR.	MODEL	TOTAL VOL (GAL)	MAX ACCEPT VOL (GAL)	DIA (IN)	HEIGHT (IN)	PRECHARGE (PSIG)	CONN. SIZE (IN)	TANK WT (LBS)	TANK MAX OP WT (LBS)	REMARKS
DET-1	BELL & GOSSETT	PTA-452	211.0	211.0	32	76	65	2	503	2262.7	1, 2, 3

REMARKS:
1. ALL TANKS SHALL BE ASME RATED AND SHALL BE PROVIDED WITH A LINE SIZE T&P RELIEF VALVE ON THE INLET PIPING.
2. PROVIDE WITH INTEGRAL INLET TURBULATOR TO PREVENT STAGNANT WATER IN THE TANK AS WELL AS ANTI-MICROBIAL LINER IN TANK.
3. CONTRACTOR MUST VERIFY THE SYSTEM STATIC WATER PRESSURE PRIOR TO INSTALLING TANK AND ADJUST PRE-CHARGE AS REQUIRED.

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2	09/20/2023	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
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PLUMBING SCHEDULES

P501

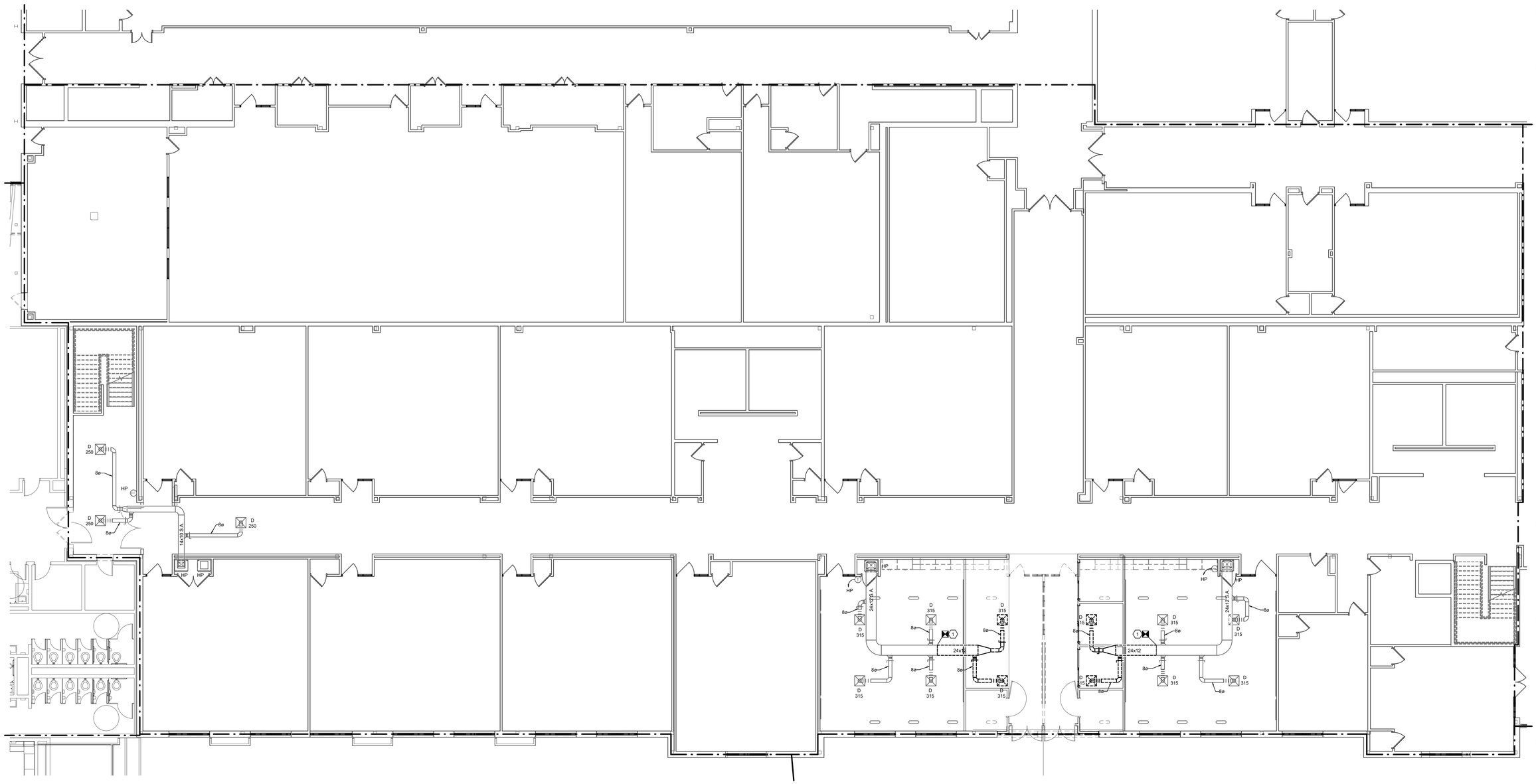
PRIMARY JOB # 22417

PLOT DATE/TIME:9/6/2023 2:43:13 PM

THIS MONOCHROME PRINT SHOULD SHOW A GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

DEMOLITION PLAN NOTES

1. REMOVE EXISTING DUCTWORK COMPLETE INCLUDING ASSOCIATED DIFFUSERS, GRILLES, AND HANGERS. PREPARE REMAINING DUCTWORK FOR RECONNECT WITH NEW.



1 FIRST FLOOR - MECHANICAL DEMOLITION PLAN - UNIT E
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SCALE: 1/16" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1" = 1'-0"

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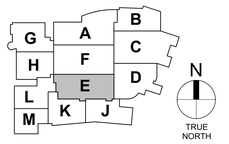

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#	Date	Desc.

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
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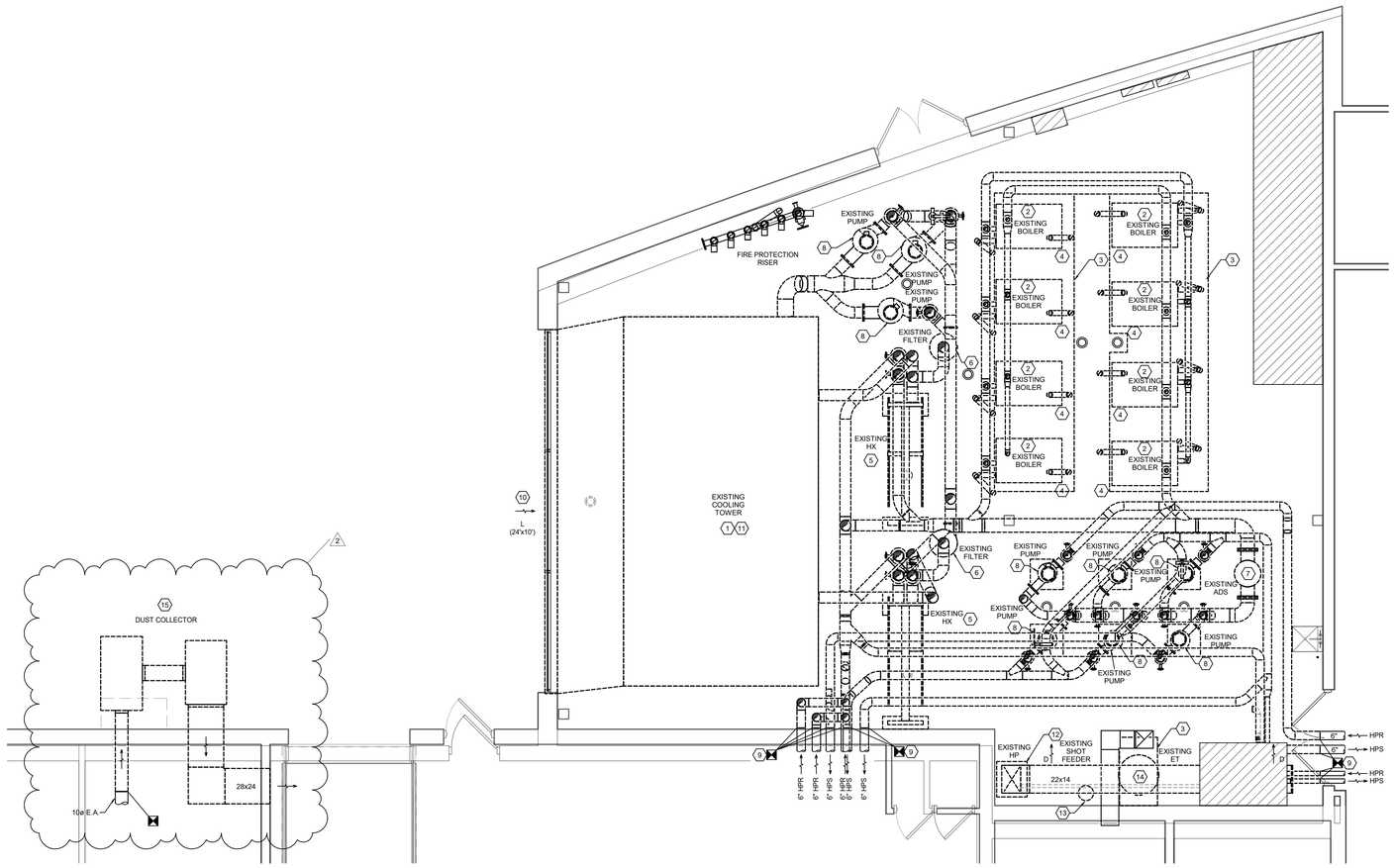
FIRST FLOOR - MECHANCIAL DEMOLITION PLAN - UNIT E

M001E

PRIMARY JOB # 22417

DEMOLITION PLAN NOTES

1. REMOVE EXISTING COOLING TOWER COMPLETE INCLUDING ASSOCIATED PIPING, MOUNTING DEVICES, AND CONTROLS. REMOVE EXISTING 12" TALL CONCRETE COOLING TOWER BASE. PATCH FLOOR TO MATCH EXISTING.
2. REMOVE EXISTING BOILER COMPLETE INCLUDING ASSOCIATED PIPING, FLUES, MOUNTING DEVICES, AND CONTROLS.
3. REMOVE EXISTING 4" TALL CONCRETE HOUSEKEEPING PAD. PATCH FLOOR TO MATCH EXISTING.
4. REMOVE EXISTING BOILER FLUES AND INTAKES COMPLETE INCLUDING ASSOCIATED MOUNTING DEVICES. PATCH ROOF TO MATCH EXISTING . MAINTAIN EXISTING ROOF WARRANTY.
5. REMOVE EXISTING PLATE AND FRAME HEAT EXCHANGER COMPLETE INCLUDING ASSOCIATED PIPING, MOUNTING DEVICES, AND CONTROLS.
6. REMOVE EXISTING TOWER WATER FILTER SEPARATOR COMPLETE INCLUDING ASSOCIATE PIPING, MOUNTING DEVICES, AND CONTROLS.
7. REMOVE EXISTING AIR SEPARATOR COMPLETE INCLUDING ASSOCIATED PIPING AND HANGERS.
8. REMOVE EXISTING VERTICAL INLINE PUMP COMPLETE INCLUDING ASSOCIATED PIPING, HANGERS, AND CONTROLS. REMOVE EXISTING 12" TALL CONCRETE PUMP BASE. PATCH FLOOR TO MATCH EXISTING.
9. REMOVE EXISTING PIPING COMPLETE INCLUDING ASSOCIATED HANGERS. PREPARE REMAINING PIPING FOR RECONNECT WITH NEW.
10. REMOVE EXISTING INTAKE LOUVER COMPLETE INCLUDING ASSOCIATED DUCTWORK, DAMPERS, MOUNTING DEVICES, AND CONTROLS. EXISTING LOUVER OPENING TO REMAIN. PATCH ALL SURFACES TO MATCH EXISTING.
11. REMOVE EXISTING COOLING TOWER DISCHARGE DUCT COMPLETE INCLUDING ASSOCIATED ROOF CURB. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR ROOF OPENING INFILL. PATCH ROOF TO MAINTAIN EXISTING WARRANTY.
12. REMOVE EXISTING HEAT PUMP COMPLETE INCLUDING ASSOCIATED DUCTWORK, PIPING, MOUNTING DEVICES, AND CONTROLS.
13. REMOVE EXISTING CHEMICAL SHOT FEEDER COMPLETE INCLUDING ASSOCIATED PIPING AND HANGERS.
14. REMOVE EXISTING EXPANSION TANK COMPLETE INCLUDING ASSOCIATED PIPING AND HANGERS.
15. CAREFULLY DISCONNECT AND SALVAGE EXISTING DUST COLLECTOR SYSTEM AND W.W.M. DISCHARGE DUCT FTTING AND PREPARE FOR REINSTALLATION IN NEW LOCATION. PREPARE REMAINING DUCTWORK FOR RECONNECT WITH NEW. PATCH AND INFILL ALL EXISTING WALL OPENINGS TO MATCH ADJACENT. COORDINATE WITH GC.



1 FIRST FLOOR - MECHANICAL DEMOLITION PLAN - BOILER ROOM

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

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A. MICHAEL STEPHEN DUDERSTADT

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PROJECT: #22130
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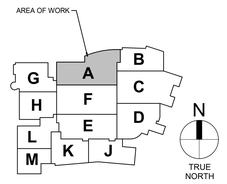
FIRST FLOOR - MECHANICAL DEMOLITION PLAN - BOILER ROOM

M003

PRIMARY JOB # 22417



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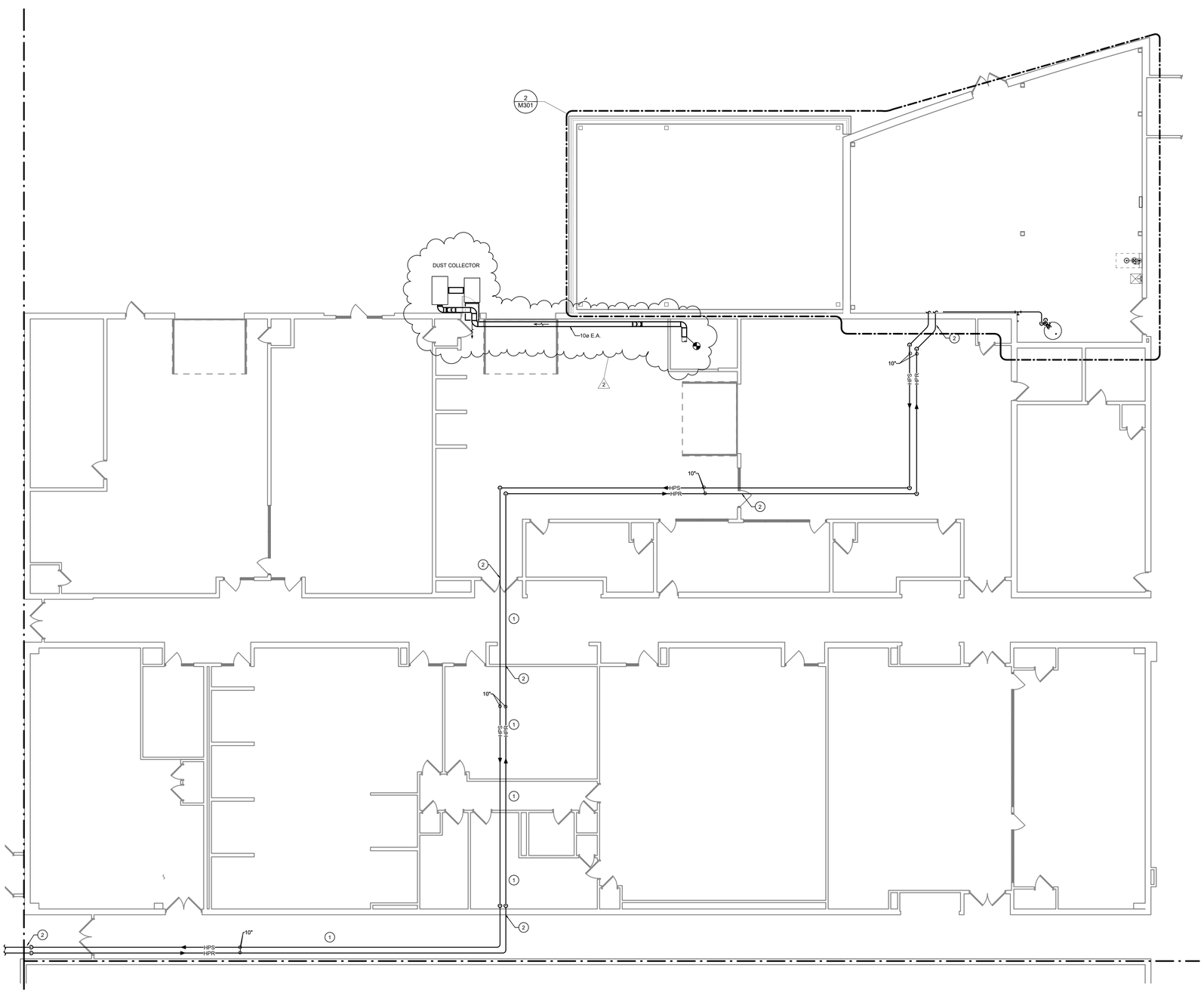
0 8 16 24 32 SCALE: 3/32" = 1'-0"
0 8 16 24 SCALE: 1/8" = 1'-0"
0 4 8 12 SCALE: 1/4" = 1'-0"
0 2 4 6 SCALE: 1/2" = 1'-0"
0 2 4 SCALE: 3/4" = 1'-0"
0 1 2 3 SCALE: 1" = 1'-0"

PLAN NOTES

1. COORDINATE WITH GC TO CAREFULLY TAKE DOWN, SALVAGE, AND REINSTALL EXISTING CEILING GRID AND TILE AS REQUIRED TO GAIN ACCESS FOR PLUMBING WORK. TEMPORARILY SUPPORT EXISTING SUPPLY DIFFUSERS. APPROXIMATELY (10) LOCATIONS OF 10" DIA FLEXBILE DUCT, THIS SHEET.
2. CORE DRILL THROUGH EXISTING MASONRY WALL AS REQUIRED TO ROUTE NEW PIPING.
3. REINSTALL SALVAGED DUST COLLECTION SYSTEM TO BE FULLY FUNCTIONAL. RECONNECT TO EXISTING DUCTWORK AND CONTROLS. ANCHOR TO EXISTING CONCRETE SIDEWALK. CUT/CORE THROUGH EXISTING MASONRY WALLS AS REQUIRED TO ROUTE NEW DUCTWORK. REINSTALL SALVAGED W.W.M. DISCHARGE DUCT FITTING.



1 FIRST FLOOR - MECHANICAL PLAN - UNIT A

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

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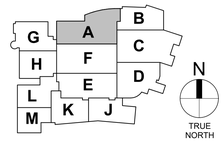
FIRST FLOOR - MECHANICAL PLAN - UNIT A

M101A

PRIMARY JOB # 22417



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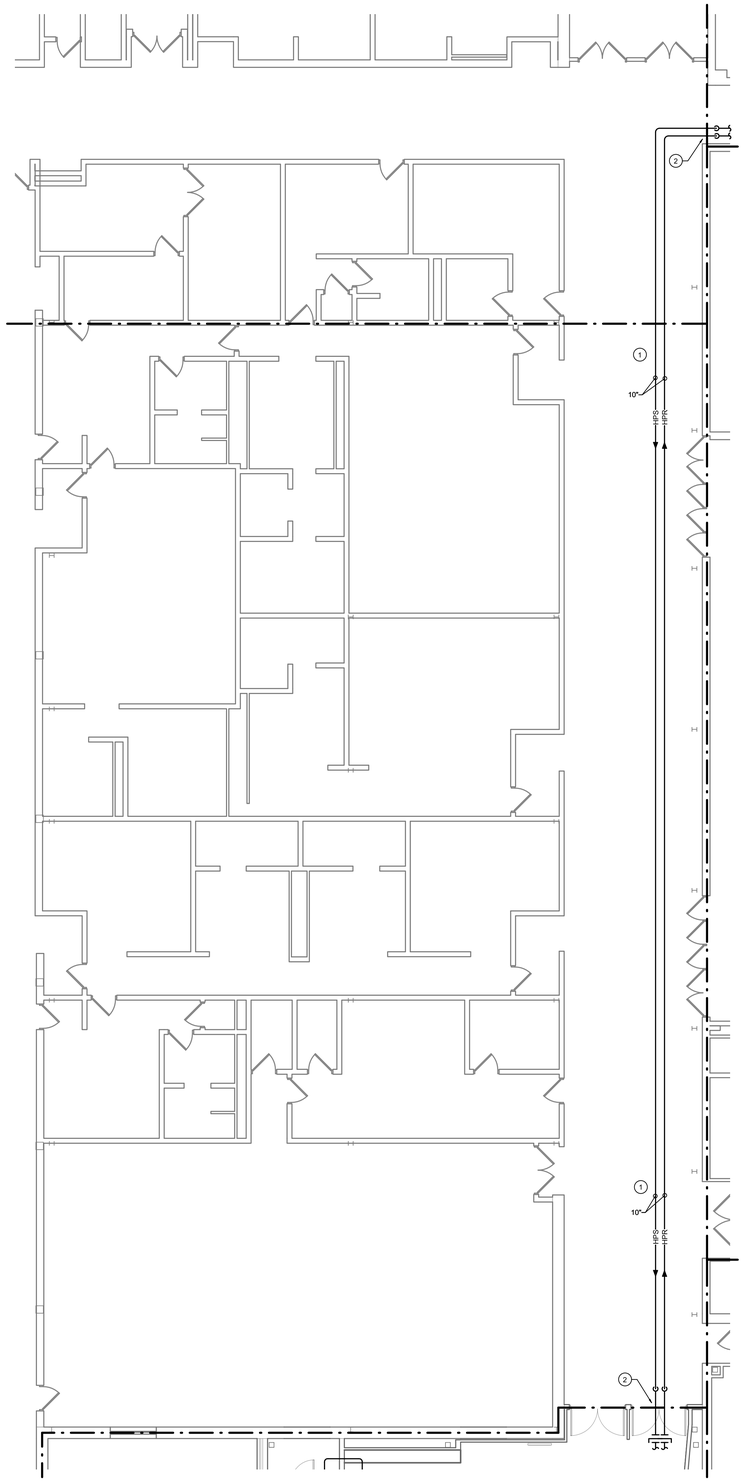
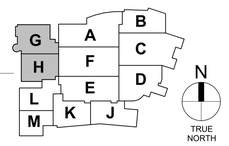
PLAN NOTES

1. COORDINATE WITH GC TO CAREFULLY TAKE DOWN, SALVAGE, AND REINSTALL EXISTING CEILING GRID AND TILE AS REQUIRED TO GAIN ACCESS FOR PLUMBING WORK. TEMPORARILY SUPPORT EXISTING SUPPLY DIFFUSERS. APPROXIMATELY (20) LOCATIONS OF 10" DIA FLEXIBLE DUCT, THIS SHEET.
2. CORE DRILL THROUGH EXISTING MASONRY WALL AS REQUIRED TO ROUTE NEW PIPING.



1 FIRST FLOOR - MECHANICAL PLAN - UNITS G AND H
SCALE: 1/8" = 1'-0"



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PROJECT: #22130
DATE: 07-28-2023
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FIRST FLOOR - MECHANICAL PLAN - UNITS G AND H

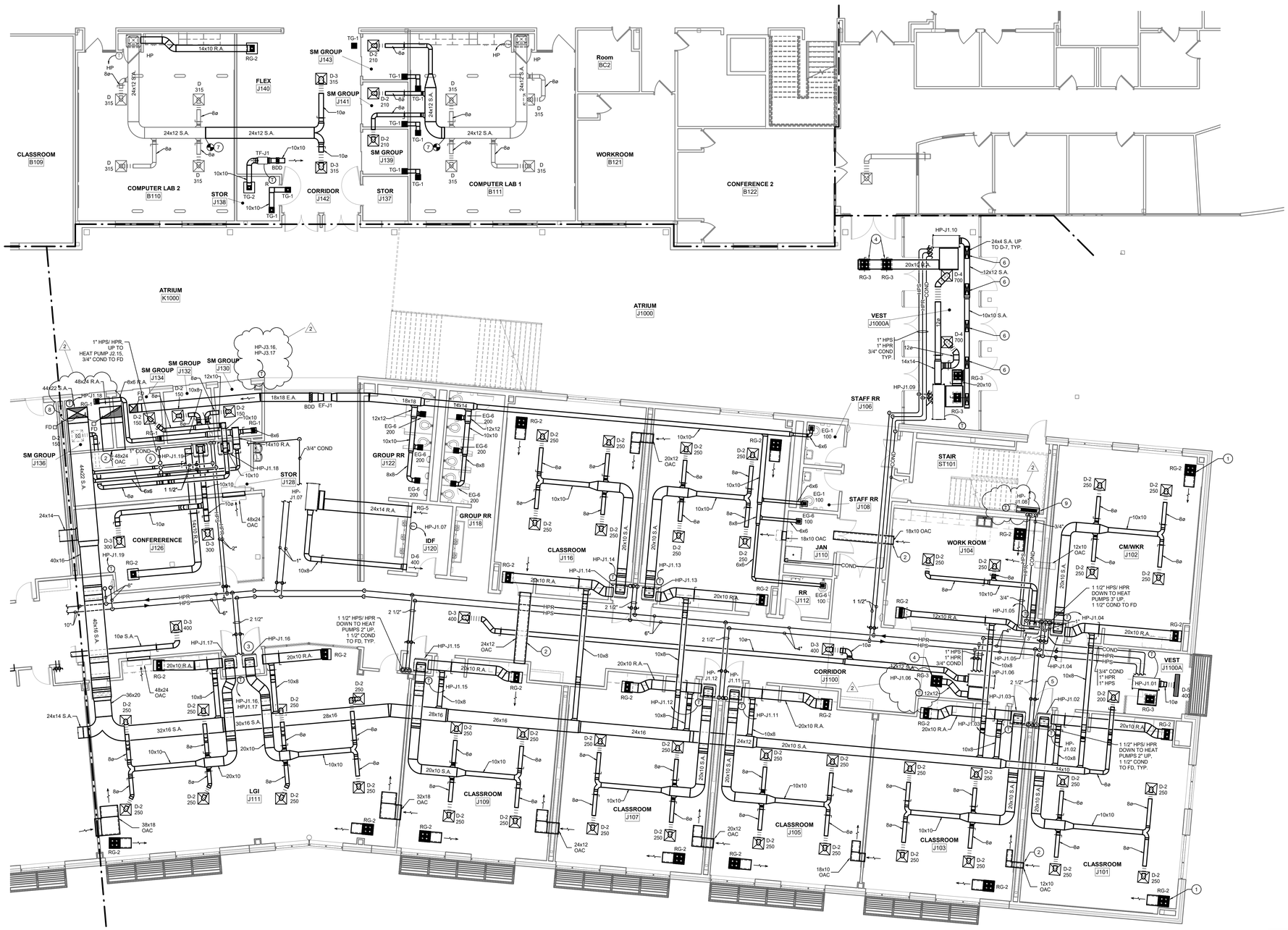
M101GH

PRIMARY JOB # 22417

PLAN NOTES

(X)

1. PROVIDE AND INSTALL LINED RETURN AIR BOOT ON RELIEF AIR PLENUM EGGCRATE GRILLES RG-1 AND RG-2. REFER TO SOUND ATTENUATOR RETURN GRILLE DETAIL ON DRAWING SHEET M401 FOR MORE INFORMATION. TYPICAL.
2. PROVIDE AND INSTALL RELIEF AIR OPENING ABOVE CEILING. MAINTAIN CLEARANCE EQUAL TO MINOR DUCT DIMENSION OR 12" MINIMUM EACH SIDE FOR AIRFLOW. COORDINATE WITH ALL TRADES. TYPICAL.
3. REFER TO HEAT PUMP DETAILS ON DRAWING SHEET M401 FOR MORE INFORMATION. TYPICAL.
4. PROVIDE AND INSTALL CEILING MOUNTED FILTER GRILLE(S) FOR HORIZONTAL HEAT PUMPS. TYPICAL.
5. ROUTE COOLING COIL CONDENSATE PIPING ON FLOOR AND DISCHARGE DIRECTLY INTO FLOOR SINK. CUT GRATE TO RECEIVE CONDENSATE. COOLING COIL CONDENSATE PIPING SHALL BE COPPER WITH 1/2" THICK ELASTOMERIC RUBBER INSULATION. TYPICAL.
6. ROUTE DUCTWORK UP TO FLOOR MOUNTED SUPPLY GRILLE ABOVE.
7. TIE-IN TO EXISTING DUCTWORK AND EXTEND NEW AS SHOWN.
8. PROVIDE AND INSTALL FIRE DAMPERS AT ALL PENETRATIONS OF THREE STORY DUCT SHAFT.
9. PUMPED CONDENSATE FROM FLOOR MOUNTED HEAT PUMP.
10. ROUTE CONDENSATE PIPING DOWN WITHIN WALL TO WALL BOX. REFER TO CONDENSATE WALL BOX DETAIL ON DRAWING SHEET P401 FOR MORE INFORMATION.



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ANDREW STEPHEN LOZIER
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STATE OF
INDIANA
PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
2	9/6/2023	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT:	#22130
DATE:	07-28-2023
DRAWN BY:	ASL

FIRST FLOOR - MECHANICAL PLAN - UNIT J

M101J

PRIMARY JOB # 22417

1 FIRST FLOOR - MECHANICAL PLAN - UNIT J
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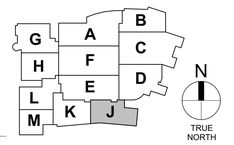

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THIS MONOCHROME PRINT SHOULD DISPLAY GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

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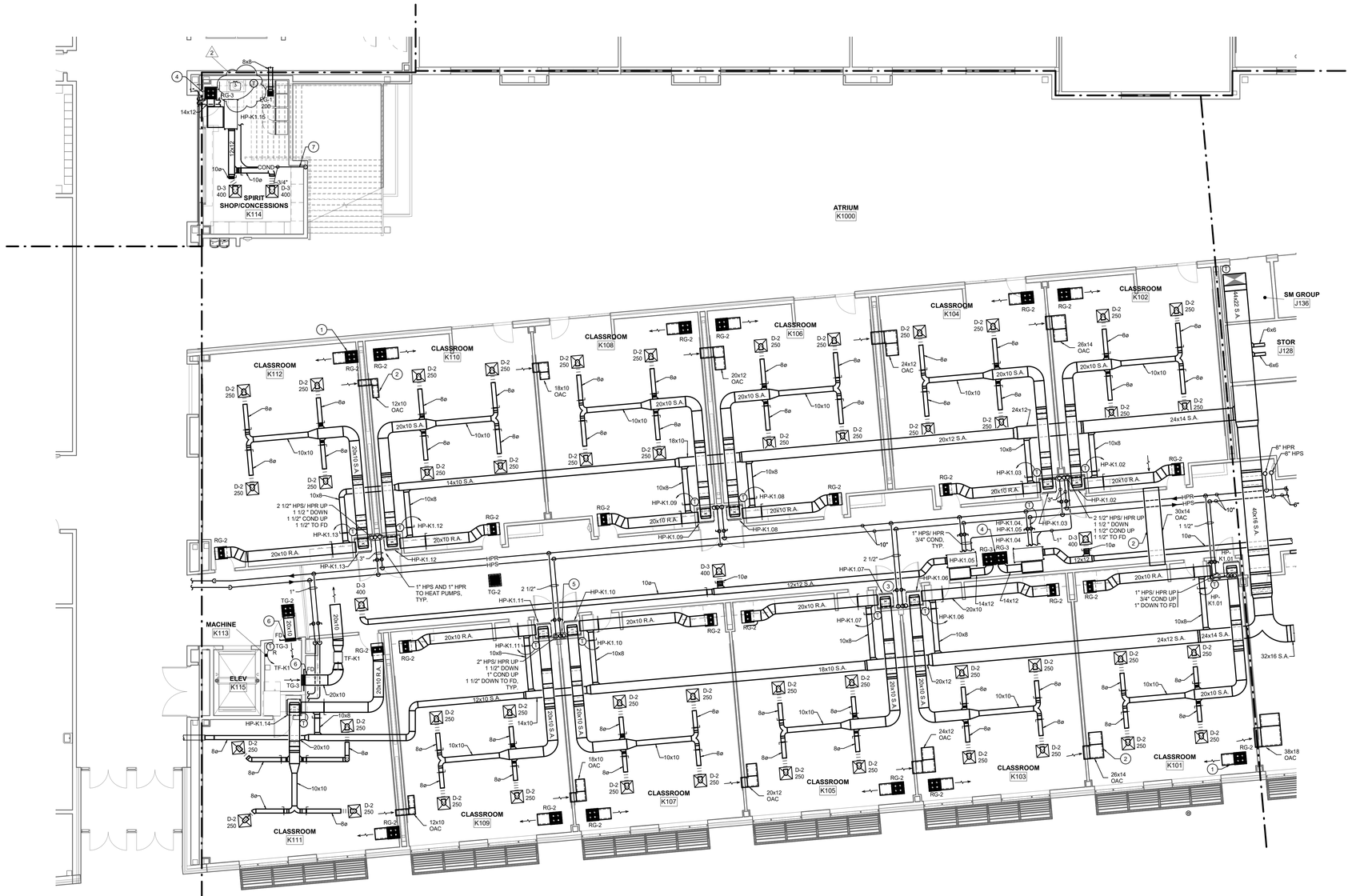
0 8 16 24 32 SCALE: 3/32" = 1'-0"
0 8 16 24 SCALE: 1/8" = 1'-0"
0 4 8 12 SCALE: 1/4" = 1'-0"
0 2 4 6 SCALE: 1/2" = 1'-0"
0 2 4 SCALE: 3/4" = 1'-0"
0 1 2 3 SCALE: 1" = 1'-0"

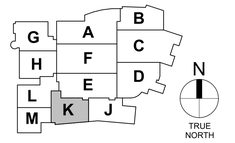
PLAN NOTES

(X)

1. PROVIDE AND INSTALL LINED RETURN AIR BOOT ON RELIEF AIR PLENUM EGGCRATE GRILLES RG-1 AND RG-2. REFER TO SOUND ATTENUATOR RETURN GRILLE DETAIL ON DRAWING SHEET M401 FOR MORE INFORMATION. TYPICAL.
2. PROVIDE AND INSTALL RELIEF AIR OPENING ABOVE CEILING. MAINTAIN CLEARANCE EQUAL TO MINOR DUCT DIMENSION OR 12" MINIMUM EACH SIDE FOR AIRFLOW. COORDINATE WITH ALL TRADES. TYPICAL.
3. REFER TO HEAT PUMP DETAILS ON DRAWING SHEET M401 FOR MORE INFORMATION. TYPICAL.
4. PROVIDE AND INSTALL CEILING MOUNTED FILTER GRILLE(S) FOR HORIZONTAL HEAT PUMPS. TYPICAL.
5. ROUTE COOLING COIL CONDENSATE PIPING ON FLOOR AND DISCHARGE DIRECTLY INTO FLOOR SINK. CUT GRATE TO RECEIVE CONDENSATE. COOLING COIL CONDENSATE PIPING SHALL BE COPPER WITH 1/2" THICK ELASTOMERIC RUBBER INSULATION. TYPICAL.
6. PROVIDE AND INSTALL FIRE DAMPERS AT ALL PENETRATIONS OF ELEVATOR MACHINE ROOM.
7. ROUTE CONDENSATE PIPING DOWN WITHIN WALL TO WALL BOX. REFER TO CONDENSATE WALL BOX DETAIL ON DRAWING SHEET P401 FOR MORE INFORMATION.



1 FIRST FLOOR - MECHANICAL PLAN - UNIT K
SCALE: 1/8" = 1'-0"



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PLOT DATE/TIME: 9/6/2023 2:39:33 PM

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PROFESSIONAL ENGINEER

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2	9/6/2023	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT:	#22130
DATE:	07-28-2023
DRAWN BY:	ASL

FIRST FLOOR - MECHANICAL PLAN - UNIT K

M101K

PRIMARY JOB # 22417

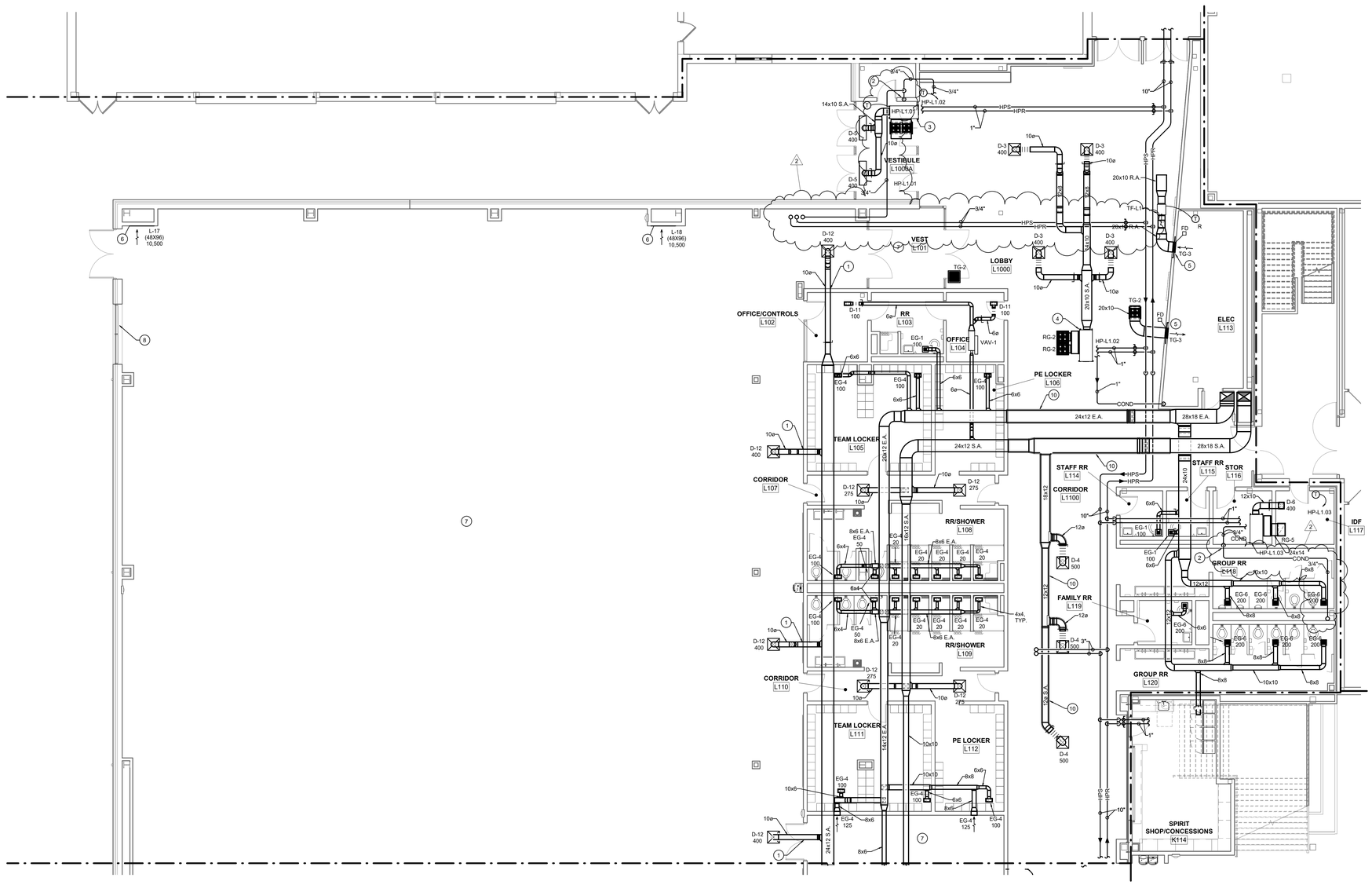
UNLESS NOTED OTHERWISE, IN SPACES WITH NO CEILINGS OR WITH CEILING CLOUDS, ALL DUCTWORK SHALL BE PAINTGRIP GALVANIZED FOR FIELD PAINTING BY GENERAL CONTRACTOR. COORDINATE WITH GENERAL CONTRACTOR. COLOR SELECTION BY ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION. SUPPLY AIR AND RETURN AIR DUCTWORK SHALL BE DOUBLE WALL WITH INTERSTITIAL INSULATION. RELIEF AIR AND EXHAUST AIR DUCTWORK SHALL BE SINGLE WALL WITH INTERNAL LINER WITHIN 10'-0" OF FAN CONNECTION.

UNLESS NOTED OTHERWISE, IN SPACES WITH NO CEILINGS OR WITH CEILING CLOUDS, PROVIDE AND INSTALL WHITE PAPER ASJ ON ALL PIPING INSULATION FOR FIELD PAINTING BY GENERAL CONTRACTOR. COORDINATE WITH GENERAL CONTRACTOR. COLOR SELECTION BY ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

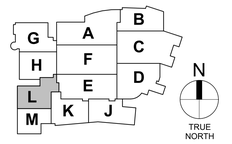
PLAN NOTES

(X)

1. ROUTE DUCT THROUGH FACTORY OPENING IN STRUCTURAL BEAM. REFER TO STRUCTURAL DRAWINGS.
2. ROUTE CONDENSATE PIPING DOWN WITHIN WALL TO WALL BOX. REFER TO CONDENSATE WALL BOX DETAIL ON DRAWING SHEET P401 FOR MORE INFORMATION.
3. REFER TO HEAT PUMP DETAILS ON DRAWING SHEET M401 FOR MORE INFORMATION. TYPICAL.
4. PROVIDE AND INSTALL CEILING MOUNTED FILTER GRILLE(S) FOR HORIZONTAL HEAT PUMPS. TYPICAL.
5. PROVIDE AND INSTALL FIRE DAMPERS AT ALL PENETRATIONS OF ELECTRICAL ROOM.
6. BOTTOM OF LOUVER ELEVATION SHALL BE AT TOP OF FIRST MASONRY COURSE. RETURN AIR CHASE OPEN TO LOUVER AND RETURN AIR DUCTWORK UP TO AIR HANDLER. MAINTAIN CLEARANCES FOR RETURN AIR PATH AND PREVENT OBSTRUCTIONS BY OTHER TRADES. COORDINATE WITH OTHER TRADES.
7. ALL MATERIALS FOR HVAC THIS ROOM SHALL BE CORROSION RESISTANT. REFER TO SPECIFICATIONS.
8. PROVIDE AND INSTALL DEWPOINT TEMPERATURE RESET SENSOR ON METAL WINDOW OR DOOR FRAME. COORDINATE EXACT LOCATION WITH OWNER, ARCHITECT, AND ENGINEER.
9. DUCT SHALL HAVE INTERGRAL DUCT LINER.
10. DUCT SHALL BE DOUBLE WALL.



1 FIRST FLOOR - MECHANICAL PLAN - UNIT L
SCALE: 1/8" = 1'-0"



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ANDREW STEPHEN LUDERBACK
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PROFESSIONAL ENGINEER

REVISIONS:		
#	Date	Desc.
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100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: ASL

FIRST FLOOR - MECHANICAL PLAN - UNIT L

M101L

PRIMARY JOB # 22417

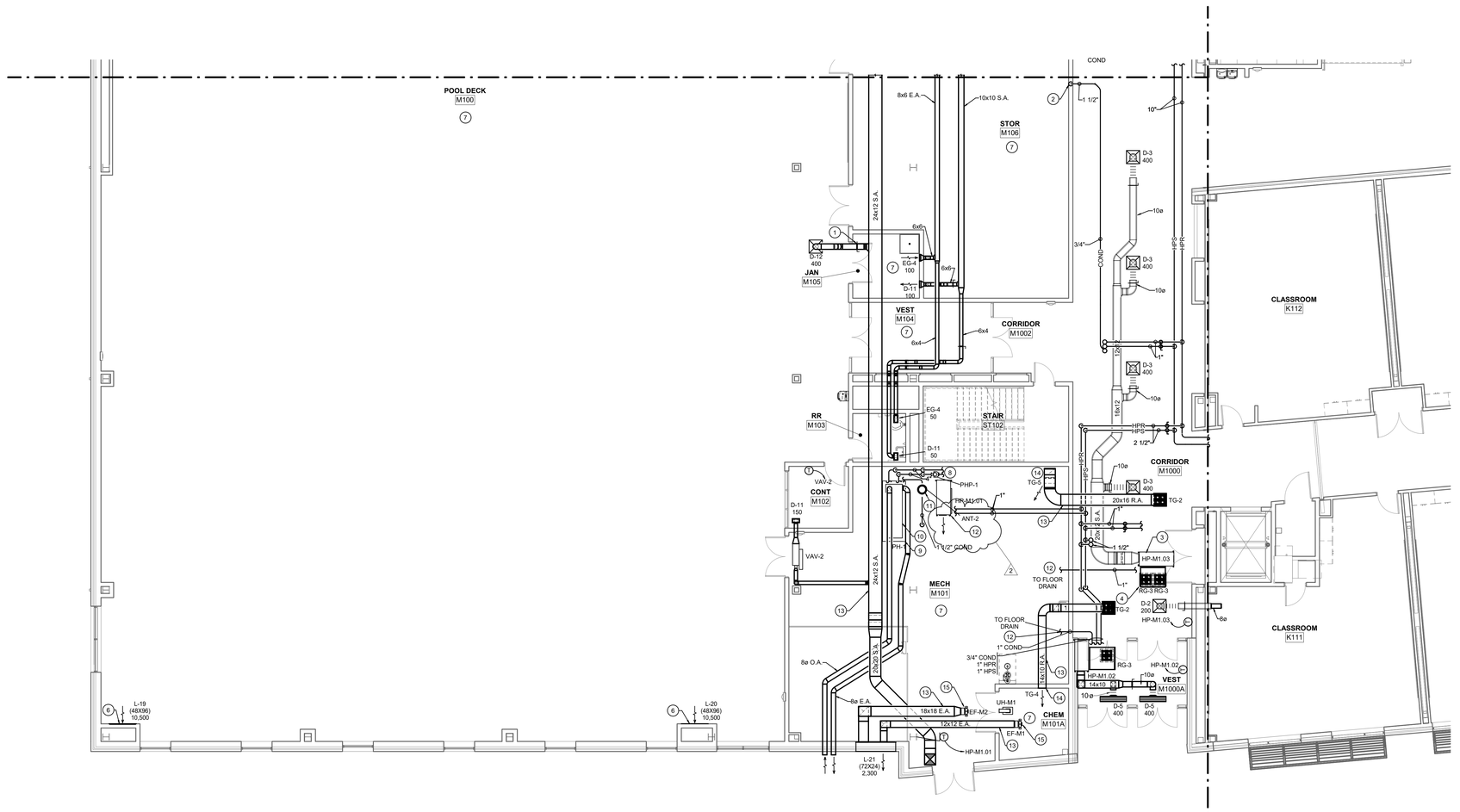
UNLESS NOTED OTHERWISE, IN SPACES WITH NO CEILINGS OR WITH CEILING CLOUDS, ALL DUCTWORK SHALL BE PAINTGRIP GALVANIZED FOR FIELD PAINTING BY GENERAL CONTRACTOR. COORDINATE WITH GENERAL CONTRACTOR. COLOR SELECTION BY ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION. SUPPLY AIR AND RETURN AIR DUCTWORK SHALL BE DOUBLE WALL WITH INTERSTITIAL INSULATION. RELIEF AIR AND EXHAUST AIR DUCTWORK SHALL BE SINGLE WALL WITH INTERNAL LINER WITHIN 10'-0" OF FAN CONNECTION.

UNLESS NOTED OTHERWISE, IN SPACES WITH NO CEILINGS OR WITH CEILING CLOUDS, PROVIDE AND INSTALL WHITE PAPER ASJ ON ALL PIPING INSULATION FOR FIELD PAINTING BY GENERAL CONTRACTOR. COORDINATE WITH GENERAL CONTRACTOR. COLOR SELECTION BY ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

PLAN NOTES

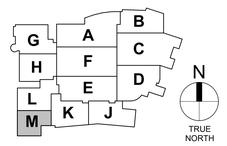
(X)

1. ROUTE DUCT THROUGH FACTORY OPENING IN STRUCTURAL BEAM. REFER TO STRUCTURAL DRAWINGS.
2. ROUTE CONDENSATE PIPING DOWN WITHIN WALL TO WALL BOX. REFER TO CONDENSATE WALL BOX DETAIL ON DRAWING SHEET P401 FOR MORE INFORMATION.
3. REFER TO HEAT PUMP DETAILS ON DRAWING SHEET M401 FOR MORE INFORMATION. TYPICAL.
4. PROVIDE AND INSTALL CEILING MOUNTED FILTER GRILLE(S) FOR HORIZONTAL HEAT PUMPS. TYPICAL.
5. PROVIDE AND INSTALL FIRE DAMPERS AT ALL PENETRATIONS OF ELECTRICAL ROOM.
6. BOTTOM OF LOUVER ELEVATION SHALL BE AT TOP OF FIRST MASONRY COURSE. RETURN AIR CHASE OPEN TO LOUVER AND RETURN AIR DUCTWORK UP TO AIR HANDLER. MAINTAIN CLEARANCES FOR RETURN AIR PATH AND PREVENT OBSTRUCTIONS BY OTHER TRADES. COORDINATE WITH OTHER TRADES.
7. ALL MATERIALS FOR HVAC THIS ROOM SHALL BE CORROSION RESISTANT. REFER TO SPECIFICATIONS.
8. CONNECT POOL HEATING SUPPLY AND RETURN TO TEES ON POOL SYSTEM PIPING. POOL SYSTEM PIPING AND TEES BY POOL CONTRACTOR. COORDINATE EXACT LOCATION WITH POOL CONTRACTOR. PIPING SHALL BE SCH 40 CPVC.
9. PROVIDE AND INSTALL EQUIPMENT ON 4" TALL CONCRETE HOUSEKEEPING PAD.
10. PROVIDE AND INSTALL MODULAR CONDENSING BOILER PACKAGED POOL HEATING SYSTEM. REFER TO DETAILS ON DRAWING SHEET M401 FOR MORE INFORMATION. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR CLEARANCE, PIPING, AND VENTING.
11. ROUTE BOILER FLUE CONDENSATE DRAIN TO NEW FLOOR MOUNTED CONDENSATE NEUTRALIZATION TANK CT-2. MODIFY CT-2 INLET AND OUTLET CONNECTIONS AS REQUIRED FOR TRAP DEPTH AND CONDENSATE PIPE FALL. DISCHARGE DIRECTLY INTO NEAREST FLOOR DRAIN. BOILER CONDENSATE PIPE SHALL BE SCHEDULE 80 CPVC. CUT FLOOR SINK GRATE TO RECEIVE CONDENSATE.
12. ROUTE CONDENSATE PIPING EXPOSED ON WALL AND FLOOR TO NEAREST FLOOR DRAIN. CUT FLOOR DRAIN GRATE TO RECEIVE CONDENSATE.
13. DUCTWORK SHALL BE ALUMINUM.
14. BOTTOM OF TRANSFER GRILLE ELEVATION SHALL BE 6" AFF.
15. SUPPORT FAN FROM STRUCTURE. ELEVATION APPROXIMATELY 7'0" AFF.



FIRST FLOOR - MECHANICAL PLAN - UNIT M

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



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ANDREW STEPHEN LOCKERBACK
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100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
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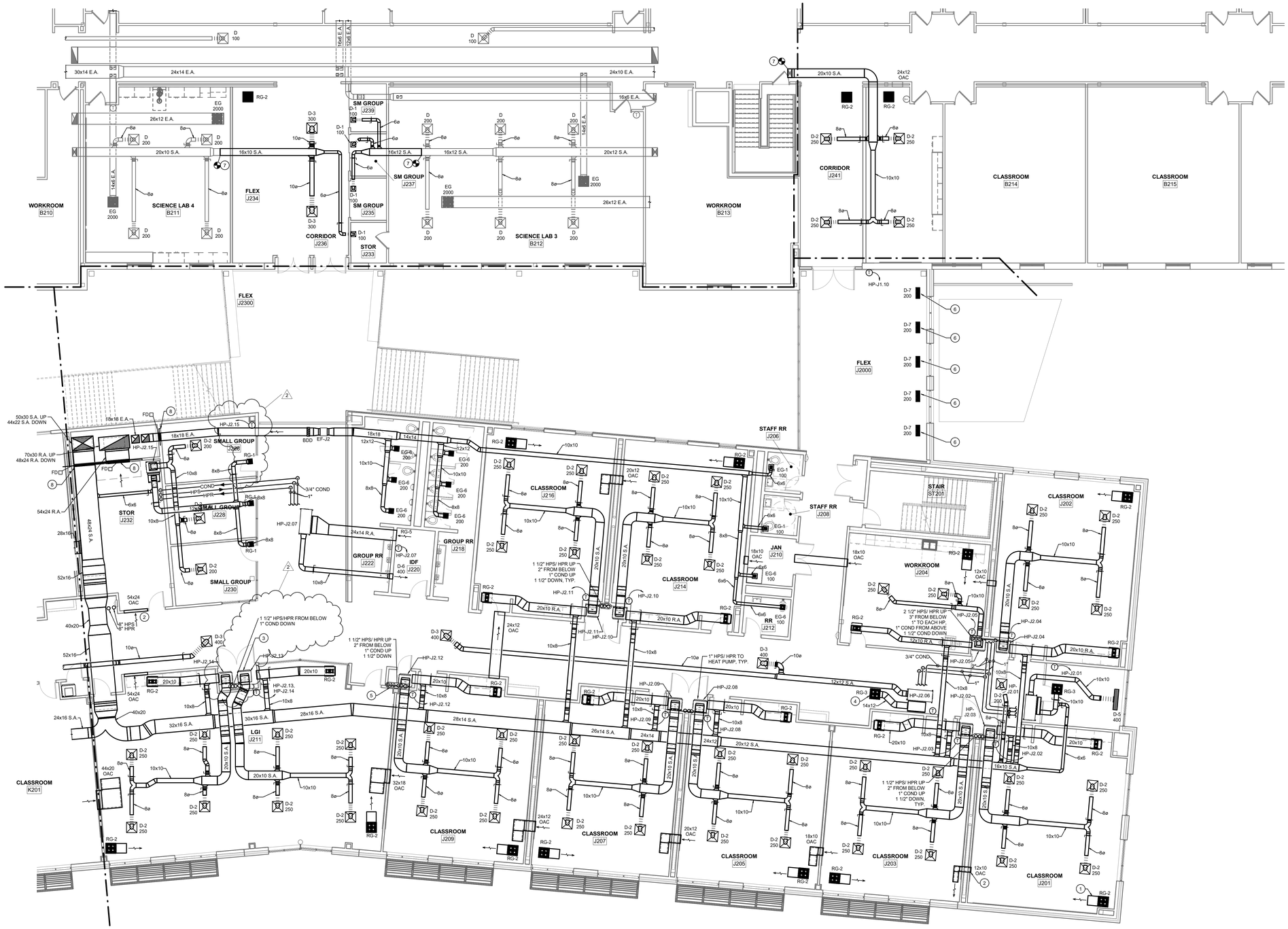
FIRST FLOOR - MECHANICAL PLAN - UNIT M

M101M

PRIMARY JOB # 22417

PLAN NOTES

1. PROVIDE AND INSTALL LINED RETURN AIR BOOT ON RELIEF AIR PLENUM EGGCRATE GRILLES RG-1 AND RG-2. REFER TO SOUND ATTENUATOR RETURN GRILLE DETAIL ON DRAWING SHEET M401 FOR MORE INFORMATION. TYPICAL.
2. PROVIDE AND INSTALL RELIEF AIR OPENING ABOVE CEILING. MAINTAIN CLEARANCE EQUAL TO MINOR DUCT DIMENSION OR 12" MINIMUM EACH SIDE FOR AIRFLOW. COORDINATE WITH ALL TRADES. TYPICAL.
3. REFER TO HEAT PUMP DETAILS ON DRAWING SHEET M401 FOR MORE INFORMATION. TYPICAL.
4. PROVIDE AND INSTALL CEILING MOUNTED FILTER GRILLE(S) FOR HORIZONTAL HEAT PUMPS. TYPICAL.
5. ROUTE COOLING COIL CONDENSATE PIPING TO RISER FROM THIRD FLOOR TO FLOOR DRAIN ON FIRST FLOOR. COOLING COIL CONDENSATE PIPING SHALL BE COPPER WITH 1/2" THICK ELASTOMERIC RUBBER INSULATION. TYPICAL.
6. FLOOR MOUNTED SUPPLY GRILLE.
7. TIE-IN TO EXISTING DUCTWORK AND EXTEND NEW AS SHOWN.
8. PROVIDE AND INSTALL FIRE DAMPERS AT ALL PENETRATIONS OF THREE STORY DUCT SHAFT.



1 SECOND FLOOR - MECHANICAL PLAN - UNIT J
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ANDREW STEPHEN LOZIER REGISTERED PE11700017 STATE OF INDIANA PROFESSIONAL ENGINEER

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100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
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SECOND FLOOR - MECHANICAL PLAN - UNIT J

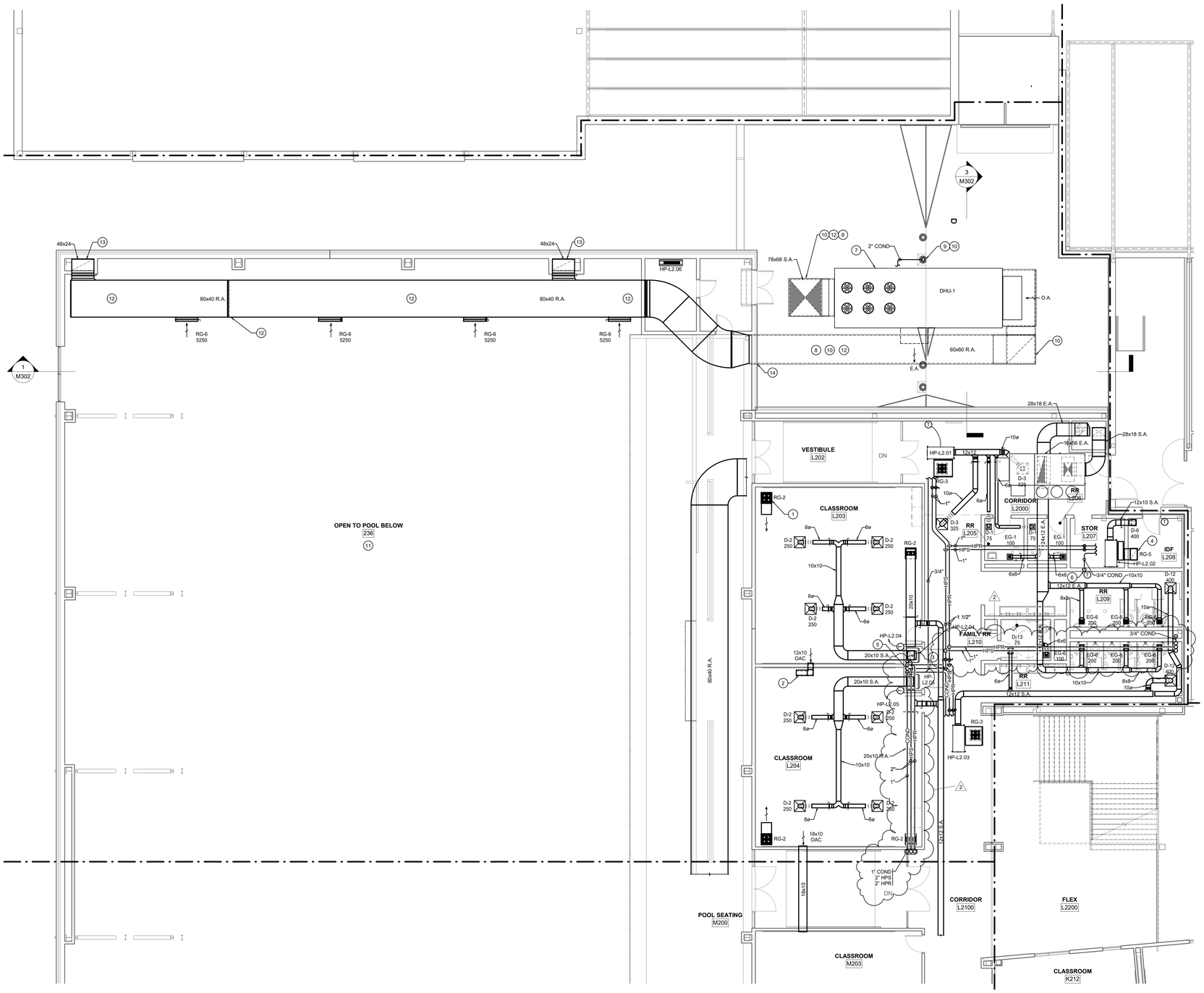
M102J

PRIMARY JOB # 22417

PLAN NOTES

(X)

1. PROVIDE AND INSTALL LINED RETURN AIR BOOT ON RELIEF AIR PLENUM EGGCRATE GRILLES RG-1 AND RG-2. REFER TO SOUND ATTENUATOR RETURN GRILLE DETAIL ON DRAWING SHEET M401 FOR MORE INFORMATION. TYPICAL.
2. PROVIDE AND INSTALL RELIEF AIR OPENING ABOVE CEILING. MAINTAIN CLEARANCE EQUAL TO MINOR DUCT DIMENSION OR 12" MINIMUM EACH SIDE FOR AIRFLOW. COORDINATE WITH ALL TRADES. TYPICAL.
3. REFER TO HEAT PUMP DETAILS ON DRAWING SHEET M401 FOR MORE INFORMATION. TYPICAL.
4. PROVIDE AND INSTALL CEILING MOUNTED FILTER GRILLE(S) FOR HORIZONTAL HEAT PUMPS. TYPICAL.
5. ROUTE COOLING COIL CONDENSATE PIPING TO RISER FROM THIRD FLOOR TO FLOOR DRAIN ON FIRST FLOOR. COOLING COIL CONDENSATE PIPING SHALL BE COPPER WITH 1/2" THICK ELASTOMERIC RUBBER INSULATION. TYPICAL.
6. ROUTE CONDENSATE PIPING DOWN WITHIN WALL TO WALL BOX ON FIRST FLOOR. REFER TO CONDENSATE WALL BOX DETAIL ON DRAWING SHEET P401 FOR MORE INFORMATION.
7. PROVIDE AND INSTALL DHU-1 ON 24" TALL INSULATED METAL ROOF CURB. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES FOR SERVICE AND AIRFLOW.
8. ALL EXPOSED EXTERIOR DUCTWORK SHALL BE INSULATED WITH R-6 MINIMUM 1-1/2" FLEXIBLE ELASTOMERIC SHEET AND JACKETED WITH ALUMINUM. REFER TO SPECIFICATIONS. CROWN JACKETING TO SHED WATER. INSTALL DUCTWORK MINIMUM 18" ABOVE ROOF.
9. ROUTE CONDENSATE PIPING TO NEAREST ROOF DRAIN.
10. SUPPORT DUCT AND PIPE FROM ROOF USING B-LINE DURA-BLOCK ROOF SUPPORTS WITH ALL STAINLESS STEEL HARDWARE.
11. NATATORIUM SUPPLY AIR DUCTWORK SHALL BE PRIHODA PMS OR EQUIVALENT FABRIC DUCT WITH INTERNAL REINFORCEMENT RINGS AND ALL ACCESSORIES AND HARDWARE FOR A COMPLETE INSTALLATION. REFER TO SPECIFICATIONS AND DRAWING DETAILS AND SECTIONS FOR MORE INFORMATION. STANDARD COLOR SELECTION BY ARCHITECT. ALL HARDWARE AND ACCESSORIES SHALL BE ALUMINUM METAL.
12. NATATORIUM RETURN DUCT SHALL BE ALUMINUM.
13. CONNECT RETURN DUCT TO TOP OPENING OF MASONRY RETURN AIR CHASE.
14. PROVIDE FLASHED PENETRATION WITH TOP DRIP CAP FOR WATER TIGHT PENETRATION.



1 SECOND FLOOR - MECHANICAL PLAN - UNIT L
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PROFESSIONAL ENGINEER

REVISIONS:

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100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
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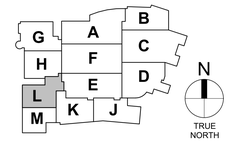
SECOND FLOOR - MECHANICAL PLAN - UNIT L



M102L

PRIMARY JOB # 22417

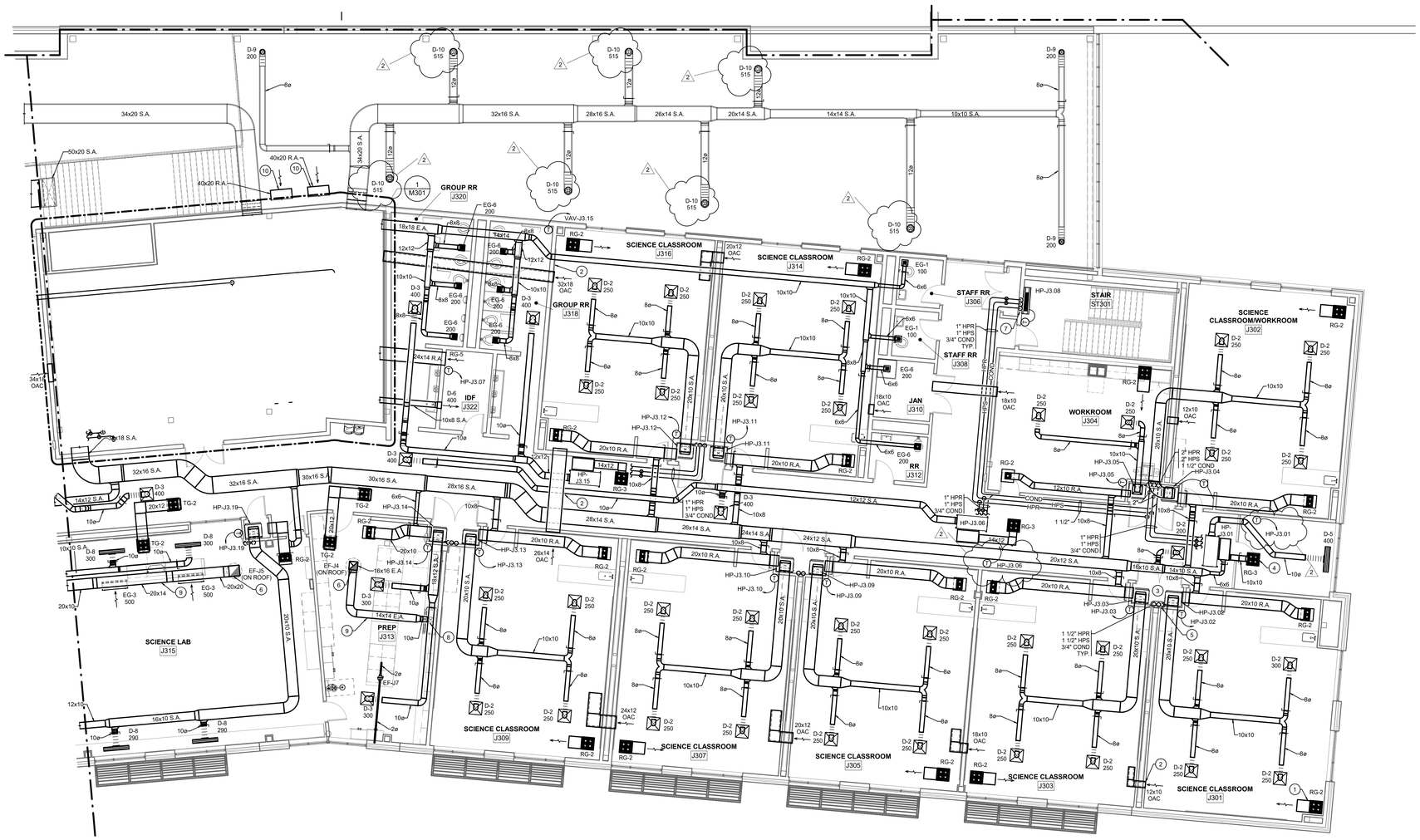
UNLESS NOTED OTHERWISE, IN SPACES WITH NO CEILINGS OR WITH CEILING CLOUDS, ALL DUCTWORK SHALL BE PAINTGRIP GALVANIZED FOR FIELD PAINTING BY GENERAL CONTRACTOR. COORDINATE WITH GENERAL CONTRACTOR. COLOR SELECTION BY ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION. SUPPLY AIR AND RETURN AIR DUCTWORK SHALL BE DOUBLE WALL WITH INTERSTITIAL INSULATION. RELIEF AIR AND EXHAUST AIR DUCTWORK SHALL BE SINGLE WALL WITH INTERNAL LINER WITHIN 10'-0" OF FAN CONNECTION.

UNLESS NOTED OTHERWISE, IN SPACES WITH NO CEILINGS OR WITH CEILING CLOUDS, PROVIDE AND INSTALL WHITE PAPER ASJ ON ALL PIPING INSULATION FOR FIELD PAINTING BY GENERAL CONTRACTOR. COORDINATE WITH GENERAL CONTRACTOR. COLOR SELECTION BY ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

PLAN NOTES

(X)

1. PROVIDE AND INSTALL LINED RETURN AIR BOOT ON RELIEF AIR PLENUM EGGCRATE GRILLES RG-1 AND RG-2. REFER TO SOUND ATTENUATOR RETURN GRILLE DETAIL ON DRAWING SHEET M401 FOR MORE INFORMATION. TYPICAL.
2. PROVIDE AND INSTALL RELIEF AIR OPENING ABOVE CEILING. MAINTAIN CLEARANCE EQUAL TO MINOR DUCT DIMENSION OR 12" MINIMUM EACH SIDE FOR AIRFLOW. COORDINATE WITH ALL TRADES. TYPICAL.
3. REFER TO HEAT PUMP DETAILS ON DRAWING SHEET M401 FOR MORE INFORMATION. TYPICAL.
4. PROVIDE AND INSTALL CEILING MOUNTED FILTER GRILLE(S) FOR HORIZONTAL HEAT PUMPS. TYPICAL.
5. ROUTE COOLING COIL CONDENSATE PIPING TO RISER FROM THIRD FLOOR TO FLOOR DRAIN ON FIRST FLOOR. COOLING COIL CONDENSATE PIPING SHALL BE COPPER WITH 1/2" THICK ELASTOMERIC RUBBER INSULATION. TYPICAL.
6. CONTROL DAMPERS FOR THROUGH-ROOF DUCT PENETRATIONS SHALL BE LOCATED BELOW ROOF DECK AND SHALL BE ACCESSIBLE FROM ROOF. REFER TO EQUIPMENT SCHEDULES AND DETAILS FOR MORE INFORMATION.
7. PUMPED CONDENSATE FROM FLOOR MOUNTED HEAT PUMP.
8. CONNECT EXHAUST DUCT TO FUME HOOD OUTLET.
9. SCIENCE LAB AND FUME HOOD EXHAUST DUCT SHALL BE PVC COATED.
10. PROVIDE AND INSTALL 3/4"x3/4" GALVANIZED STEEL W.W.M. ON RETURN AIR OPENING.
11. ROUTE 2" SCH 40 DWV PVC PIPE DOWN WALL TO ACID STORAGE CABINET AND UP THROUGH ROOF TO GOOSNECK. WRAP PIPE WITH 1/2" THICK FLEXIBLE ELASTOMERIC INSULATION.



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CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

ANDREW STEPHEN LOUIS
REGISTERED
PE11700017
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
2	9/6/2023	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

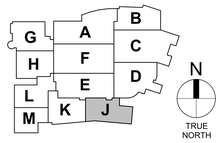
PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: ASL

THIRD FLOOR - MECHANICAL PLAN - UNIT J

M103J

PRIMARY JOB # 22417

1 THIRD FLOOR - MECHANICAL PLAN - UNIT J
SCALE: 1/8" = 1'-0"



THIS MONOCHROME PRINT SHOULD DISPLAY GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

PLOT DATE/TIME: 9/6/2023 2:42:29 PM

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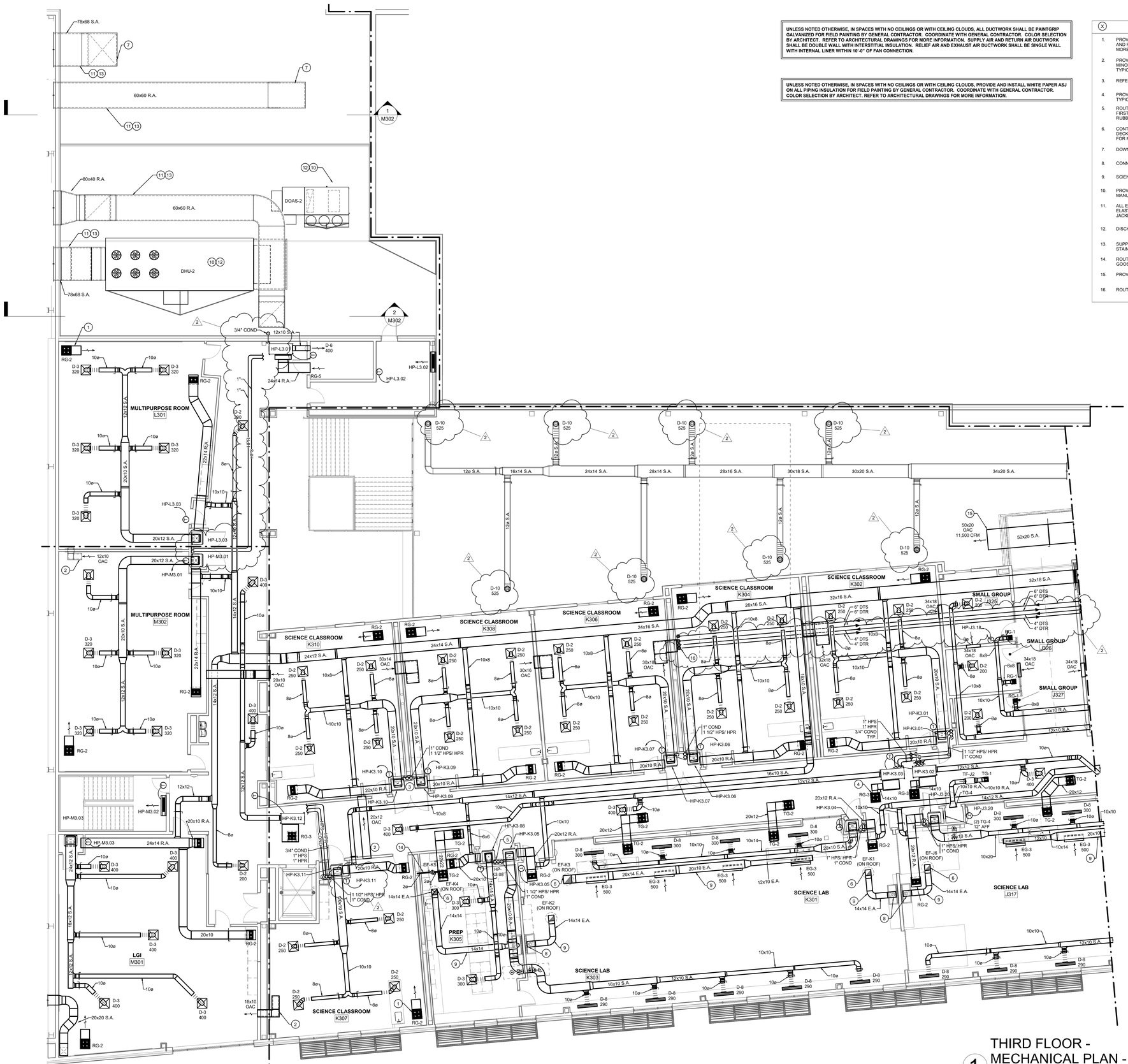
SCALE: 1/8" = 1'-0" (0, 8, 16, 24)
SCALE: 1/4" = 1'-0" (0, 4, 8, 12)
SCALE: 1/2" = 1'-0" (0, 2, 4, 6)
SCALE: 3/4" = 1'-0" (0, 2, 4)
SCALE: 1" = 1'-0" (0, 1, 2, 3)



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UNLESS NOTED OTHERWISE, IN SPACES WITH NO CEILINGS OR WITH CEILING CLOUDS, PROVIDE AND INSTALL WHITE PAPER ASJ ON ALL PIPING INSULATION FOR FIELD PAINTING BY GENERAL CONTRACTOR. COORDINATE WITH GENERAL CONTRACTOR. COLOR SELECTION BY ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

PLAN NOTES

Ⓧ

1. PROVIDE AND INSTALL LINED RETURN AIR BOOT ON RELIEF AIR PLENUM EGGCRATE GRILLES RG-1 AND RG-2. REFER TO SOUND ATTENUATOR RETURN GRILLE DETAIL ON DRAWING SHEET M401 FOR MORE INFORMATION. TYPICAL.
2. PROVIDE AND INSTALL RELIEF AIR OPENING ABOVE CEILING. MAINTAIN CLEARANCE EQUAL TO MINOR DUCT DIMENSION OR 12" MINIMUM EACH SIDE FOR AIRFLOW. COORDINATE WITH ALL TRADES. TYPICAL.
3. REFER TO HEAT PUMP DETAILS ON DRAWING SHEET M401 FOR MORE INFORMATION. TYPICAL.
4. PROVIDE AND INSTALL CEILING MOUNTED FILTER GRILLE(S) FOR HORIZONTAL HEAT PUMPS. TYPICAL.
5. ROUTE COOLING COIL CONDENSATE PIPING TO RISER FROM THIRD FLOOR TO FLOOR DRAIN ON FIRST FLOOR. COOLING COIL CONDENSATE PIPING SHALL BE COPPER WITH 1/2" THICK ELASTOMERIC RUBBER INSULATION. TYPICAL.
6. CONTROL DAMPERS FOR THROUGH-ROOF DUCT PENETRATIONS SHALL BE LOCATED BELOW ROOF DECK AND SHALL BE ACCESSIBLE FROM ROOF. REFER TO EQUIPMENT SCHEDULES AND DETAILS FOR MORE INFORMATION.
7. DOWN TO DHU-1 ON LOW ROOF BELOW.
8. CONNECT EXHAUST DUCT TO FUME HOOD OUTLET.
9. SCIENCE LAB AND FUME HOOD EXHAUST DUCT SHALL BE PVC COATED.
10. PROVIDE AND INSTALL UNIT ON 24" TALL INSULATED METAL ROOF CURB. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES FOR SERVICE AND AIRFLOW.
11. ALL EXPOSED EXTERIOR DUCTWORK SHALL BE INSULATED WITH R-6 MINIMUM 1-1/2" FLEXIBLE ELASTOMERIC SHEET AND JACKETED WITH ALUMINUM. REFER TO SPECIFICATIONS. CROWN JACKETING TO SHED WATER. INSTALL DUCTWORK MINIMUM 18" ABOVE ROOF.
12. DISCHARGE COOLING COIL CONDENSATE PIPING DIRECTLY ONTO SLOPED ROOF.
13. SUPPORT DUCT AND PIPE FROM ROOF USING B-LINE DURA-BLOCK ROOF SUPPORTS WITH ALL STAINLESS STEEL HARDWARE.
14. ROUTE 2" SCH 40 DWV PVC PIPE DOWN WALL TO ACID STORAGE CABINET AND UP THROUGH ROOF TO GOOSNECK. WRAP PIPE WITH 1/2" THICK FLEXIBLE ELASTOMERIC INSULATION.
15. PROVIDE AND INSTALL 3/4"x3/4" GALVANIZED STEEL W.W.M. ON SUPPLY AIR OPENING.
16. ROUTE PIPING UP TO DOAS-1 THROUGH INSULATED METAL PIPE CURB.

1 THIRD FLOOR - MECHANICAL PLAN - UNIT K

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

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PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
2	9/6/2023	ADDENDUM #2

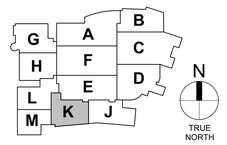
100% CONSTRUCTION DOCUMENT

PROJECT:	#22130
DATE:	07-28-2023
DRAWN BY:	ASL

THIRD FLOOR - MECHANICAL PLAN - UNIT K

M103K

PRIMARY JOB # 22417



PLOT DATE/TIME: 9/6/2023 7:49:01 PM

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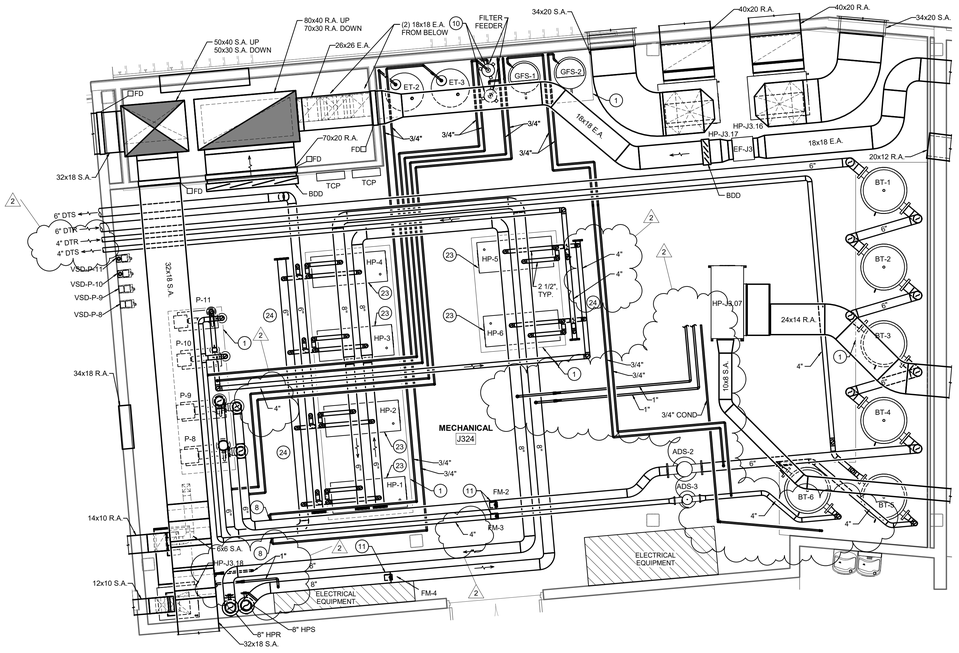
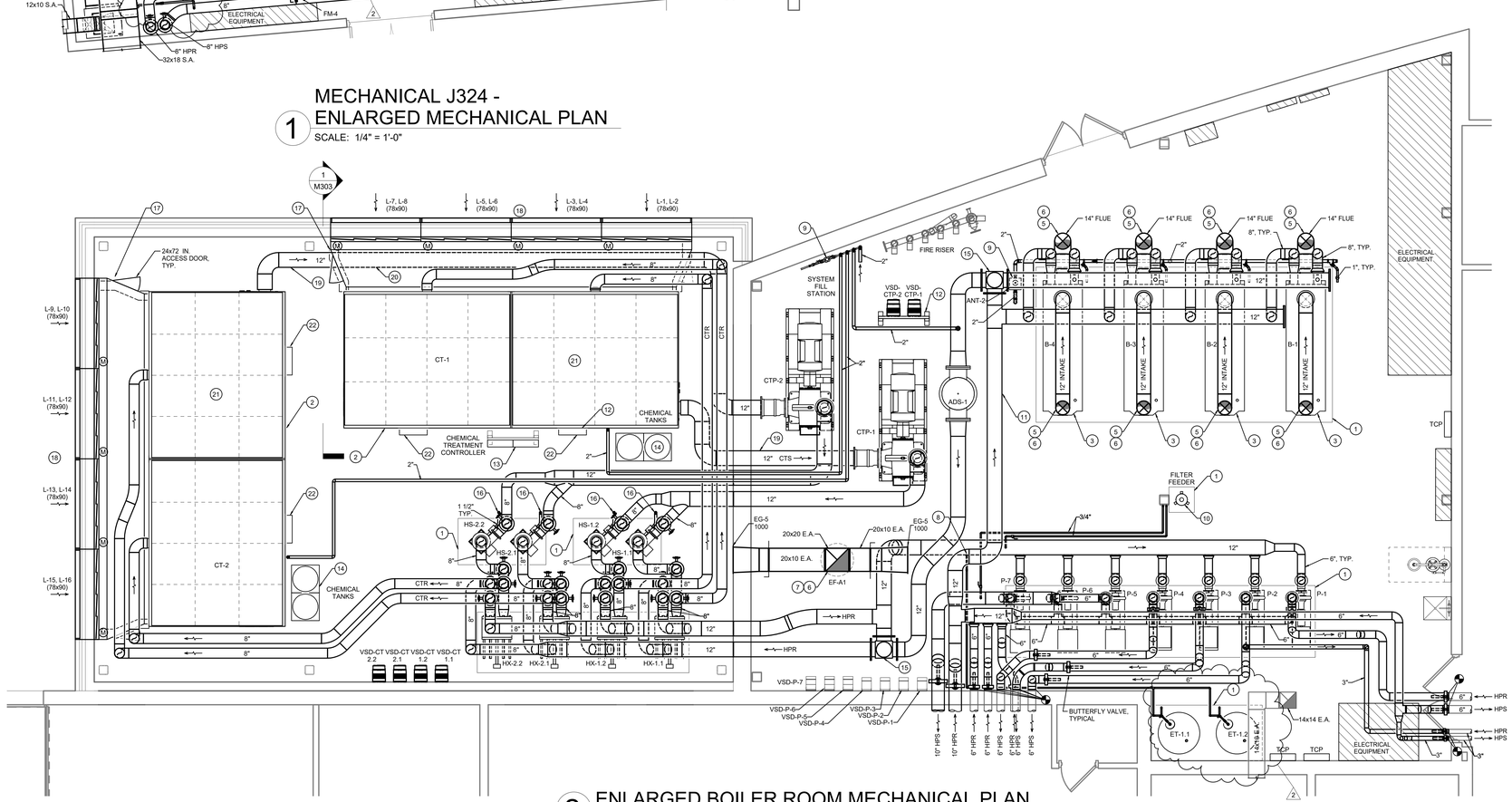
0 16 32 48 SCALE: 1/16" = 1'-0"
0 8 16 24 32 SCALE: 3/32" = 1'-0"
0 8 16 24 SCALE: 1/8" = 1'-0"
0 4 8 12 SCALE: 1/4" = 1'-0"
0 2 4 6 SCALE: 1/2" = 1'-0"
0 2 4 SCALE: 3/4" = 1'-0"
0 1 2 3 SCALE: 1" = 1'-0"



MECHANICAL J324 - ENLARGED MECHANICAL PLAN

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



ENLARGED BOILER ROOM MECHANICAL PLAN

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

PLAN NOTES

1. PROVIDE AND INSTALL EQUIPMENT ON 4" TALL CONCRETE HOUSEKEEPING PAD.
2. PROVIDE AND INSTALL EQUIPMENT ON 12" TALL CONCRETE HOUSEKEEPING PAD. REFER TO STRUCTURAL DRAWINGS.
3. PROVIDE AND INSTALL MODULAR CONDENSING BOILER. REFER TO DETAILS ON DRAWING SHEET M401 FOR MORE INFORMATION. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR CLEARANCE, PIPING, AND VENTING.
4. ROUTE BOILER FLUE CONDENSATE DRAIN TO NEW FLOOR MOUNTED CONDENSATE NEUTRALIZATION TANK CT-1. MODIFY CT-1 INLET AND OUTLET CONNECTIONS AS REQUIRED FOR TRAP DEPTH AND CONDENSATE PIPE FALL. DISCHARGE DIRECTLY INTO NEAREST FLOOR DRAIN. BOILER CONDENSATE PIPE SHALL BE SCHEDULE 80 CPVC. CUT FLOOR SINK GRATE TO RECEIVE CONDENSATE.
5. ROUTE COMBUSTION AIR INTAKES AND FLUES UP TO ROOF. VERIFY VENTING REQUIREMENTS WITH BOILER MANUFACTURER AND VENTING MANUFACTURER. FLUES SHALL BE POLYPROPYLENE. COMBUSTION AIR INTAKES SHALL BE PVC PIPE OR GALVANIZED SHEET METAL.
6. CUT EXISTING ROOF AS REQUIRED FOR NEW MECHANICAL PENETRATION. PATCH ROOF TO MAINTAIN WARRANTY. COORDINATE WITH GC.
7. CONTROL DAMPERS FOR THROUGH-ROOF DUCT PENETRATIONS SHALL BE LOCATED BELOW ROOF DECK AND SHALL BE ACCESSIBLE FROM ROOF. REFER TO EQUIPMENT SCHEDULES AND DETAILS FOR MORE INFORMATION.
8. SIDE TAP MAIN FOR BRANCH PIPING TO EXPANSION TANK.
9. REFER TO SYSTEM FILL STATION DETAIL ON DRAWING SHEET M403 FOR MORE INFORMATION.
10. PROVIDE AND INSTALL NEW BYPASS FILTER FEEDER, FURNISHED BY CHEMICAL TREATMENT PROVIDER. REFER TO WATER TREATMENT SPECIFICATIONS AND CHEMICAL SHOT FEEDER DETAIL ON DRAWING SHEET M402 FOR MORE INFORMATION.
11. PROVIDE AND INSTALL NEW FLOW METER. INSTALL PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
12. PROVIDE AND INSTALL FIELD FABRICATED METAL CHANNEL EQUIPMENT RACK ANCHORED TO CONCRETE FLOOR SLAB. REFER TO DETAILS ON ELECTRICAL DRAWINGS.
13. NEW CHEMICAL TREATMENT SYSTEM CONTROLLER.
14. NEW CHEMICAL SOLUTION TANKS WITH CONTAINMENT.
15. NEW 3-WAY AUTOMATIC CONTROL VALVE.
16. ROUTE HYDROCYCLONE SEPARATOR AUTOMATIC PURGE DRAIN PIPING ON FLOOR TO NEW TRENCH DRAIN. CUT TRENCH DRAIN GRATE TO RECEIVE DRAINAGE FLOW.
17. PROVIDE AND INSTALL CONCRETE CURB ENTIRE PERIMETER OF COOLING TOWER INTAKE PLENUM. ELEVATION SHOWN ABOVE. PITCH WATER TIGHT CONCRETE SLOPED TO DRAIN, AND SEALED AIR AND WATER TIGHT. PLENUM WALL CONSTRUCTION SHALL BE GALVANIZED STEEL.
18. PROVIDE AND INSTALL STRUCTURAL SUPPORT FOR MULTI-PANEL INTAKE LOUVER.
19. COOLING TOWER RETURN PIPING TO COOLING TOWER BASIN SHALL BE INSTALLED ON FLOOR, BELOW COOLING TOWER BASIN WATER LEVEL ELEVATION, AND WITH MINIMAL FITTINGS.
20. CT-2 RETURN PIPING TO CTP-2 SHALL PENETRATE THROUGH CT-1 INATKE PLENUM CURB. SEAL PENETRATION WITH LINK SEAL. PIPING WITHIN INTAKE PLENUM SHALL BE WELDED STAINLESS STEEL WITH ALL STAINLESS STEEL HARDWARE AND SUPPORTS.
21. ROUTE COOLING TOWER DISCHARGE DUCT UP THROUGH ROOF. PROVIDE AND INSTALL NEW 24" TALL DOUBLE WALL INSULATED METAL ROOF CURB. PROVIDE AND INSTALL 16 GA 1"x1" WELDED STAINLESS STEEL WOVEN WIRE MESH ATTACHED TO 4"x4" METAL CHANNEL SUPPORT GRID, ANCHORED TO ROOF CURB. ALL STAINLESS STEEL CONSTRUCTION. REFER TO COOLING TOWER DETAILS FOR MORE INFORMATION.
22. OSHA ALUMINUM ACCESS LADDER TO FLOOR.
23. PROVIDE AND INSTALL WATER-TO-WATER HEAT PUMP. REFER TO DETAILS ON DRAWING SHEET M401 FOR MORE INFORMATION. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR CLEARANCE AND PIPING.
24. PROVIDE AND INSTALL ALUMINUM JACKETING ON ALL PIPE INSULATION BELOW 6'-0" AFF, MINIMUM. EXTEND JACKETING TO NEAREST FITTING.

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REVISIONS:

#	Date	Desc.
2	9/6/2023	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT:	#22130
DATE:	07-28-2023
DRAWN BY:	ASL

ENLARGED MECHANICAL PLANS

M301

PRIMARY JOB # 22417

THIS MONOCHROME PRINT SHOULD DISPLAY GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

PLOT DATE/TIME: 9/6/2023 2:41:24 PM

SCALE: 1/16" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1" = 1'-0"

N
TRUE NORTH

WATER SOURCE HEAT PUMP SCHEDULE

																	HEATING									
											COOLING															
TAG	MFR.	MODEL	SIZE	SERVICE	AIRFLOW (CFM)	MIN O.A. (CFM)	ESP (IN.W.C.)	MOTOR (HP)	FLOW (GPM)	WPD (FT)	TOT. CAP. (MBH)	SENS. CAP. (MBH)	HEAT OF REJCT (MBH)	EDB / EWB (DEG F)	LAT (DEG F)	EWT (DEG F)	EER	TOT. CAP. (MBH)	HEAT OF EXTRC (MBH)	EAT (DEG F)	LAT (DEG F)	EWT (DEG F)	COP	REFRIG.	ELEC (V/PH)	FLA	MCA	MAX FUSE SIZE	REMARKS
HP-J1.01	WATERFURNACE	UVH	024	VESTIBULE J1100A	400	0	0.5	1/2	4.0	0.6	8.0	5.9	9.5	75 / 63	61.8	90	18.1	11.2	9.3	70.0	95.0	70	6.0	R410A	460/3	7.1	7.9	10	1, 2, 3, 4, 5, 6, 8, 10
HP-J1.02	WATERFURNACE	UVV	036	CLASSROOM J101	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J1.03	WATERFURNACE	UVV	036	CLASSROOM J103	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J1.04	WATERFURNACE	UVH	036	CM/WKR J102	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J1.05	WATERFURNACE	UVV	024	WORK ROOM J104	500	100	0.5	1/2	5.0	0.8	11.6	8.6	14.0	75 / 63	59.7	90	16.9	16.5	13.4	70.0	99.0	70	5.6	R410A	460/3	7.1	7.9	10	1, 2, 3, 4, 5, 6, 9, 10
HP-J1.06	WATERFURNACE	UVH	036	CORRIDR J1100	800	-	0.5	1/2	7.0	2.4	21.1	14.5	25.7	75 / 63	58.7	90	15.7	29.7	23.7	70.0	103.3	70	5.0	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 8, 10
HP-J1.07	WATERFURNACE	UVH	024	IDF J120	400	-	0.5	1/2	4.0	0.6	8.0	5.9	9.5	75 / 63	61.8	90	18.1	11.2	9.3	70.0	95.0	70	6.0	R410A	460/3	7.1	7.9	10	1, 2, 3, 4, 5, 6, 8, 10
HP-J1.08	WATERFURNACE	NCS	18	STAIR ST101	500	-	0.1	1/4	3.0	3.2	15.5	11.4	20.1	75 / 63	51.5	90	11.4	21.1	16.5	70.0	113.3	70	4.6	R410A	208-230/1	9.3	10.9	15	1, 2, 3, 4, 5, 6, 7, 9
HP-J1.09	WATERFURNACE	UVH	048	VESTIBULE J1000A	1400	-	0.5	1.0	10.0	4.2	42.9	31.7	52.6	75 / 63	54.0	90	15.2	63.1	51.9	70.0	111.7	70	5.6	R410A	460/3	11.6	13	15	1, 2, 3, 4, 5, 6, 8, 10
HP-J1.10	WATERFURNACE	UVH	036	ATRIUM J1000	1000	-	0.5	1/2	8.0	3.3	30.3	22.2	37.1	75 / 63	55.3	90	15.1	41.8	33.5	70.0	107.0	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 8, 10
HP-J1.11	WATERFURNACE	UVV	036	CLASSROOM J105	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J1.12	WATERFURNACE	UVV	036	CLASSROOM J107	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J1.13	WATERFURNACE	UVV	036	CLASSROOM J114	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J1.14	WATERFURNACE	UVV	036	CLASSROOM J116	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J1.15	WATERFURNACE	UVV	036	CLASSROOM J109	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J1.16	WATERFURNACE	UVV	036	LGI J111	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J1.17	WATERFURNACE	UVV	036	LGI J111	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J1.18	WATERFURNACE	UVV	024	SM GROUP J136	600	100	0.5	1/2	6.0	1.6	17.5	13.6	20.8	75 / 63	55.1	90	18.0	24.6	20.6	70.0	106.0	70	6.2	R410A	460/3	7.1	7.9	10	1, 2, 3, 4, 5, 6, 9, 10
HP-J1.19	WATERFURNACE	UVV	024	CONFERENCE J126	600	100	0.5	1/2	6.0	1.6	17.5	13.6	20.8	75 / 63	55.1	90	18.0	24.6	20.6	70.0	106.0	70	6.2	R410A	460/3	7.1	7.9	10	1, 2, 3, 4, 5, 6, 9, 10
HP-K1.01	WATERFURNACE	UVV	036	CLASSROOM K101	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K1.02	WATERFURNACE	UVV	036	CLASSROOM K102	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K1.03	WATERFURNACE	UVV	036	CLASSROOM K104	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K1.04	WATERFURNACE	UVH	036	CORRIDOR K1100	800	-	0.5	1/2	7.0	2.4	21.1	14.5	25.7	75 / 63	58.7	90	15.7	29.7	23.7	70.0	103.3	70	5.0	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 8, 10
HP-K1.05	WATERFURNACE	UVH	036	CORRIDOR K1100	800	-	0.5	1/2	7.0	2.4	21.1	14.5	25.7	75 / 63	58.7	90	15.7	29.7	23.7	70.0	103.3	70	5.0	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 8, 10
HP-K1.06	WATERFURNACE	UVV	036	CLASSROOM K103	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K1.07	WATERFURNACE	UVV	036	CLASSROOM K105	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K1.08	WATERFURNACE	UVV	036	CLASSROOM K106	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K1.09	WATERFURNACE	UVV	036	CLASSROOM K108	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K1.10	WATERFURNACE	UVV	036	CLASSROOM K107	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K1.11	WATERFURNACE	UVV	036	CLASSROOM K109	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K1.12	WATERFURNACE	UVV	036	CLASSROOM K110	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K1.13	WATERFURNACE	UVV	036	CLASSROOM K112	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K1.14	WATERFURNACE	UVV	036	CLASSROOM K111	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K1.15	WATERFURNACE	UVH	036	CONCESSIONS K114	800	-	0.5	1/2	7.0	2.4	21.1	14.5	25.7	75 / 63	58.7	90	15.7	29.7	23.7	70.0	103.3	70	5.0	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 8, 10
HP-L1.01	WATERFURNACE	UVH	036	VESTIBULE L1000A	800	-	0.5	1/2	7.0	2.4	21.1	14.5	25.7	75 / 63	58.7	90	15.7	29.7	23.7	70.0	103.3	70	5.0	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 8, 10
HP-L1.02	WATERFURNACE	UVH	048	LOBBY L1000	1600	-	0.5	1.0	10.0	4.2	43.9	34.8	54.0	75 / 63	55.5	90	14.8	64.2	53.4	70.0	106.0	70	6.0	R410A	460/3	11.6	13	15	1, 2, 3, 4, 5, 6, 8, 10
HP-L1.03	WATERFURNACE	UVH	024	IDF L117	400	-	0.5	1/2	4.0	0.6	8.0	5.9	9.5	75 / 63	61.8	90	18.1	11.2	9.3	70.0	95.0	70	6.0	R410A	460/3	7.1	7.9	10	1, 2, 3, 4, 5, 6, 8, 10
HP-M1.01	WATERFURNACE	UVH	048	MECH M101	1600	-	0.5	1.0	10.0	4.2	43.9	34.8	54.0	75 / 63	55.5	90	14.8	64.2	53.4	70.0	106.0	70	6.0	R410A	460/3	11.6	13	15	1, 2, 3, 4, 5, 6, 8, 10
HP-M1.02	WATERFURNACE	UVH	036	VESTIBULE M1000A	800	-	0.5	1/2	7.0	2.4	21.1	14.5	25.7	75 / 63	58.7	90	15.7	29.7	23.7	70.0	103.3	70	5.0	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 8, 10
HP-M1.03	WATERFURNACE	UVH	048	CORRIDOR M1000	1600	-	0.5	1.0	10.0	4.2	43.9	34.8	54.0	75 / 63	55.5	90	14.8	64.2	53.4	70.0	106.0	70	6.0	R410A	460/3	11.6	13	15	1, 2, 3, 4, 5, 6, 8, 10
HP-J2.01	WATERFURNACE	UVH	024	SM GROUP J200	400	40	0.5	1/2	4.0	0.6	8.0	5.9	9.5	75 / 63	61.8	90	18.1	11.2	9.3	70.0	95.0	70	6.0	R410A	460/3	7.1	7.9	10	1, 2, 3, 4, 5, 6, 8, 10
HP-J2.02	WATERFURNACE	UVV	036	CLASSROOM J201	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J2.03	WATERFURNACE	UVV	036	CLASSROOM J203	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J2.04	WATERFURNACE	UVV	036	CLASSROOM J204	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J2.05	WATERFURNACE	UVV	024	WORKROOM J204	500	100	0.5	1/2	5.0	0.8	11.6	8.6	14.0	75 / 63	59.7	90	16.9	16.5	13.4	70.0	99.0	70	5.6	R410A	460/3	7.1	7.9	10	1, 2, 3, 4, 5, 6, 9, 10
HP-J2.06	WATERFURNACE	UVH	036	CORRIDR J2200	800	-	0.5	1/2	7.0	2.4	21.1	14.5	25.7	75 / 63	58.7	90	15.7	29.7	23.7	70.0	103.3	70	5.0	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 8, 10
HP-J2.07	WATERFURNACE	UVH	024	IDF J220	400	-	0.5	1/2	4.0	0.6	8.0	5.9	9.5	75 / 63	61.8	90	18.1	11.2	9.3	70.0	95.0	70	6.0	R410A	460/3	7.1	7.9	10	1, 2, 3, 4, 5, 6, 8, 10
HP-J2.08	WATERFURNACE	UVV	036	CLASSROOM J205	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J2.09	WATERFURNACE	UVV	036	CLASSROOM J207	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J2.10	WATERFURNACE	UVV	036	CLASSROOM J214	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J2.11	WATERFURNACE	UVV	036	CLASSROOM J216	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J2.12	WATERFURNACE	UVV	036	CLASSROOM J209	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J2.13	WATERFURNACE	UVV	036	LGI J211	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J2.14	WATERFURNACE	UVV	036	LGI J211	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J2.15	WATERFURNACE	UVV	024	SM GROUP J226	600	100	0.5	1/2	6.0	1.6	17.5	13.6	20.8	75 / 63	55.1	90	18.0	24.6	20.6	70.0	106.0	70	6.2	R410A	460/3	7.1	7.9	10	1, 2, 3, 4, 5, 6, 9, 10
HP-K2.01	WATERFURNACE	UVV	036	CLASSROOM K201	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K2.02	WATERFURNACE	UVV	036	CLASSROOM K202	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K2.03	WATERFURNACE	UVV	036	CLASSROOM K204	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K2.04	WATERFURNACE	UVH	036	CORRIDOR K2000	800	-	0.5	1/2	7.0	2.4	21.1	14.5	25.7	75 / 63	58.7	90	15.7	29.7	23.7	70.0	103.3	70	5.0	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 8, 10
HP-K2.05	WATERFURNACE	UVH	036	CORRIDOR K2000	800	-	0.5	1/2	7.0	2.4	21.1	14.5	25.7	75 / 63	58.7	90	15.7	29.7	23.7	70.0	103.3	70	5.0	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 8, 10
HP-K2.06	WATERFURNACE	UVV	036	CLASSROOM K203	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K2.07	WATERFURNACE	UVV	036	CLASSROOM K205	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K2.08	WATERFURNACE	UVV	036	CLASSROOM K206	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K2.09	WATERFURNACE	UVV	036	CLASSROOM K208	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K2.10	WATERFURNACE	UVV	036	CLASSROOM K207	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K2.11	WATERFURNACE	UVV	036	CLASSROOM K209	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K2.12	WATERFURNACE	UVV	036	CLASSROOM K210	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K2.13	WATERFURNACE	UVV	036	CLASSROOM K212	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K2.14	WATERFURNACE	UVV	036	CLASSROOM K211	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-K2.15	WATERFURNACE	UVH	024	CORRIDOR M2000	800	-	0.5	1/2	6.0	2.4	22.0	19.0	26.5	75 / 63	53.5	90	16.4	30.9	25.9	70.0	105.1	70	6.2	R410A	460/3	7.1	7.9	10	1, 2, 3, 4, 5, 6, 8, 10
HP-L2.01	WATERFURNACE	UVH	024	CORRIDOR L2100	800	-	0.5	1/2	6.0	2.4	22.0	19.0	26.5	75 / 63	53.5	90	16.4	30.9	25.9	70.0	105.1	70	6.2	R410A	460/3	7.1	7.9	10	1, 2, 3, 4, 5, 6, 8, 10
HP-L2.02	WATERFURNACE	UVH	024	IDF L208	400	-	0.5	1/2	4.0	0.6	8.0	5.9	9.5	75 / 63	61.8	90	18.1	11.2	9.3	70.0	95.0	70	6.0	R410A	460/3	7.1	7.9	10	1, 2, 3, 4, 5, 6, 8, 10
HP-L2.03	WATERFURNACE	UVH	024	RR L209	800	-	0.5	1/2	6.0	2.4	22.0	19.0	26.5	75 / 63	53.5	90	16.4	30.9	25.9	70.0	105.1	70	6.2	R410A	460/3	7.1	7.9	10	1, 2, 3, 4, 5, 6, 8, 10
HP-L2.04	WATERFURNACE	UVV	036	CLASSROOM L203	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-L2.05	WATERFURNACE	UVV	036	CLASSROOM L204	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-L2.06	WATERFURNACE	NCS	18	AV L201	500	-	0.1	1/4	3.0	3.2	15.5	11.4	20.1	75 / 63	51.5	90	11.4	21.1	16.5	70.0	113.3	70	4.6	R410A	208-230/1	9.3	10.9	15	1, 2, 3, 4, 5, 6, 7, 9
HP-M2.01	WATERFURNACE	UVV	036	CLASSROOM M203	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-M2.02	WATERFURNACE	UVV	036	FLEX M201	1000	415	0.5	1/2	9.0	4.0	30.7	22.9	37.5	75 / 63	55.7	90	15.4	42.2	34.0	70.0	105.5	70	5.1	R410A	460/3	8.7	9.8	15	1, 2, 3, 4, 5, 6, 9, 10
HP-J3.01	WATERFURNACE	UVH	024	SM GROUP J300	400	100	0.5	1/2	4.0	0.6	8.0	5.9	9.5	75 / 63	61.8	90	18.1	11.2	9.3	70.0	95.0	70	6.0	R410A	460/3	7.1	7.9

BOILER SCHEDULE

TAG	MFR.	MODEL	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	THERMAL EFF (%)	FUEL	BURNER TURNDOWN	T&P RELIEF PRESS...	FUEL PRESS. (IN W.C.)	GAS CONN (IN)	WATER CONN (IN)	FLUE OUTLET (IN)	FLUE MATERIAL	DESIGN FLOW (GPM)	MIN FLOW (GPM)	WATER PD (FT)	EWT (DEG F)	LWT (DEG F)	ELEC (V/PH)	FLA	MCA	AMPS (PUMP)	AMPS (BOILER)	REMARKS
B-1	FULTON	EDR+6000	6000	5754	95.9%	NAT. GAS	15:1	50	8 - 28	2	6	14	POLYPROPYLENE	580	75	13.84	60	80	460/3	22	28	-	-	1, 2, 3, 4, 5, 6, 7
B-2	FULTON	EDR+6000	6000	5754	95.9%	NAT. GAS	15:1	50	8 - 28	2	6	14	POLYPROPYLENE	580	75	13.84	60	80	460/3	22	28	-	-	1, 2, 3, 4, 5, 6, 7
B-3	FULTON	EDR+6000	6000	5754	95.9%	NAT. GAS	15:1	50	8 - 28	2	6	14	POLYPROPYLENE	580	75	13.84	60	80	460/3	22	28	-	-	1, 2, 3, 4, 5, 6, 7
B-4	FULTON	EDR+6000	6000	5754	95.9%	NAT. GAS	15:1	50	8 - 28	2	6	14	POLYPROPYLENE	580	75	13.84	60	80	460/3	22	28	-	-	1, 2, 3, 4, 5, 6, 7
PH-1	LOCHINVAR	APO2000N	1999	1920	96.0%	NAT. GAS	25:1	50	4 - 14	1-1/2	3	8	POLYPROPYLENE	225	-	4.3	80	100	120/1	-	-	9	13	1, 2, 3, 4, 5, 6, 8

REMARKS:
1. PROVIDE AND INSTALL WITH LOW WATER CUT-OFF.
2. PROVIDE AND INSTALL WITH PACKAGED CONTROLS WITH BACNET MSTP INTERFACE.
3. PROVIDE AND INSTALL WITH INTEGRAL SEQUENCER TO CONNECT ALL BOILERS INTO A COMMON TEAM. PROVIDE ALL ASSOCIATED CONTROLLERS, WIRING, PROGRAMMING, SETUP, ETC. FOR A FULLY FUNCITONAL SYSTEM IN EVERY RESPECT.
4. BOILER MANUFACTURER AND VENTING MANUFACTURER SHALL VERIFY ALL FLUE/INTAKE SIZING AND ROUTING.
5. PROVIDE AND INSTALL WITH ASME SAFETY RELIEF VALVE.
6. PROVIDE AND INSTALL WITH INDIVIDUAL BOILER CONDENSATE DRAIN TRAP.
7. PROVIDE AND INSTALL WITH FACTORY TWO-POSITION AUTOMATIC CONTROL VALVE AND 120V ACTUATOR TO ISOLATE BOILERS.
8. PROVIDE AND INSTALL WITH PACKAGED POOL HEATING SYSTEM INCLUDING TITANIUM PLATE AND FRAME HEAT EXCHANGER, CIRCULATOR PUMP, AND EXPANSION TANK.

COOLING TOWER SCHEDULE

TAG	MFR.	MODEL	EWT (DEG F)	LWT (DEG F)	WEB BULB (DEG F)	FLOW (GPM)	CAPACITY (MBH)	WPD (PSI)	EVAP RATE (GPM)	AIRFLOW (CFM)	ESP (IN. W.C.)	FAN QTY	FAN MOTOR (HP)	FAN MOTOR FLA (A)	DRIVE TYPE	BASIN HEATER (kW)	ELEC (V/PH)	OPERATING WEIGHT (LBS)	REMARKS
CT-1	EVAPCO	LSTE-10524	95	85	78	2,400	12,300	3.5	19.2	163,600	0.25	6	(2) 60.0	68.3	BELT	(2) 10 KW	460/3	29,490	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
CT-2	EVAPCO	LSTE-10524	95	85	78	2,400	12,300	3.5	19.2	163,600	0.25	6	(2) 60.0	68.3	BELT	(2) 10 KW	460/3	29,490	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

REMA
1. PROVIDE AND INSTALL WITH BASIN HEATERS SIZED TO MAINTAIN 40 DEGREE BASIN WATER TEMPERATURE AT -5 DEGREE AMBIENT TEMPERATURE.
2. PROVIDE AND INSTALL WITH VIBRATION SWITCH.
3. PROVIDE AND INSTALL WITH MOTOR SHAFT GROUNDING RING, PREMIUM EFFICIENT MOTOR WITH CLASS F INSULATION AND FAN MOTOR SPACE HEATERS.
4. PROVIDE AND INSTALL WITH OSHA ALUMINUM LADDER WITH SAFETY CAGE AND EXTENSION TO FLOOR.
5. PROVIDE AND INSTALL WITH ELECTRIC WATER LEVEL CONTROL SYSTEM.
6. PROVIDE AND INSTALL WITH LOW SOUND FANS AND WATER SILENCERS.
7. PROVIDE AND INSTALL WITH ALL STAINLESS STEEL PANEL CONSTRUCTION AND STAINLESS STEEL BASIN.
8. PROVIDE AND INSTALL WITH CONTACTOR WITH TRANSFORMER AND DISCONNECT FOR HEATER PACKAGE.
9. PROVIDE AND INSTALL WITH DRIFT ELIMINATORS TO 0.001% OF WATER RECIRCULATION RATE.
10. PROVIDE AND INSTALL WITH (2) 8" INLET WATER CONNECTIONS AND (1) 12" OUTLET WATER CONNECTION.
11. INTAKE AND DISCHARGE CONTROL DAMPERS SHALL BE FURNISHED BY TCC.
12. REFER TO PLANS FOR MORE INFORMATION.

AIR AND SEDIMENT SEPARATOR SCHEDULE

TAG	MFR.	MODEL	SERVICE	PIPE CONN. (IN)	MAX FLOW (GPM)	TANK DIA (IN)	TANK HEIGHT (IN)	WATER VOL (GAL)	EMPTY/FLOODED WEIGHT (LBS)	REMARKS
ADS-1	BELL & GOSSETT	CRS-14-HV	HEAT PUMP	14	1625	36	114	304	1,764 / 4,171	1, 2
ADS-2	BELL & GOSSETT	CRS-6F	DOAS-1	6	550	12	39	19	304 / 499	1, 2
ADS-3	BELL & GOSSETT	CRS-4F-HV	DOAS-1	4	405	8	43	9	174 / 261	1, 2

REMARKS:
1. PROVIDE WITH REMOVABLE BOTTOM FLANGE, SKIMMER VALVE, DRAIN PORT, AND HIGH CAPACITY AUTOMATIC AIR VENT EQUAL TO BAS MODEL 1074.
2. PROVIDE WITH INTEGRAL NEODYMIUM MAGNETIC INSERT ROD WITH SLEEVE TO ALLOW REMOVAL OF IRON FLAKES USING BLOW DOWN PORT.

BUFFER TANK SCHEDULE

TAG	MFR.	MODEL	SERVICE	TANK VOL (GAL)	DIA. (IN)	HEIGHT (IN)	CONN. SIZE (IN)	SHIP WT (LBS)	TANK FULL WT (LBS)	REMARKS
BT-1	AMTROL	CWBT300-6-125	DOAS-1	300	36	80.375	6	772	3280	1, 2, 3
BT-2	AMTROL	CWBT300-6-125	DOAS-1	300	36	80.375	6	772	3280	1, 2, 3
BT-3	AMTROL	CWBT300-6-125	DOAS-1	300	36	80.375	6	772	3280	1, 2, 3
BT-4	AMTROL	CWBT300-6-125	DOAS-1	300	36	80.375	6	772	3280	1, 2, 3
BT-5	AMTROL	CWBT300-4-125	DOAS-1	300	36	80.375	4	753	3261	1, 2, 3
BT-6	AMTROL	CWBT300-4-125	DOAS-1	300	36	80.375	4	753	3261	1, 2, 3

REMARKS:
1. PROVIDE AND INSTALL WITH AUTOMATIC AIR VENT ON TOP OF TANK AND DRAIN PORT ON BOTTOM.
2. BAFFEL PLATE SHALL BE WELDED IN PLACE.
3. TANK SHALL BE ASME RATED FOR 125 PSI.

AIR HANDLER SCHEDULE

TAG	DOAS-1			
MFR.	INNOVENT			
MODEL	ERU-OU-PL-40000			
SERVICE	3-STORY DOAS			
UNIT DIM LxWxH (IN)	542 x 220 x 120			
UNIT WIEGHT (LBS)	38,500			
SUPPLY FAN				
AIRFLOW (CFM)	40000			
TSP (IN W.C.)	5.58			
ESP (IN W.C.)	2.00			
FILTER SP (IN W.C.)	0.38			
FILTER TYPE	2" MERV 8			
FAN RPM	1815			
MOTOR SYNCH RPM	1800			
FAN TYPE	PL			
WHEEL DIAMETER (IN)	25			
FAN QUANTITY	4			
DRIVE TYPE	DIRECT			
MOTOR (HP, EA)	15.0			
MOTOR (BHP, EA)	12.0			
ELECTRICAL (V / PH)	460/3			
MODULATION	VSD			
EXHAUST FAN				
AIRFLOW (CFM)	40000			
TSP (IN W.C.)	3.18			
ESP (IN W.C.)	1.25			
FILTER SP (IN W.C.)	0.38			
FILTER TYPE	2" MERV 8			
FAN RPM	1560			
MOTOR SYNCH RPM	1800			
FAN TYPE	PL			
WHEEL DIAMETER (IN)	25			
FAN QUANTITY	4			
DRIVE TYPE	DIRECT			
MOTOR (HP, EA)	10.0			
MOTOR (BHP, EA)	7.2			
ELECTRICAL (V / PH)	460/3			
MODULATION	VSD			
DUAL TEMP PRIMARY COIL				
AIRFLOW (CFM)	40000			
TOTAL CAP (MBH)	2458			
SENS CAP (MBH)	1177			
EAT DB/WB (DEG F)	82 / 73			
LAT DB/WB (DEG F)	55 / 55			
EWT/LWT (DEG F)	45 / 55			
COIL FLOW (GPM)	485			
FLUID VELOCITY (FPS)	-			
FLUID	30% PG			
WPD (FT)	13.1			
APD (IN W.C.)	1.47			
ROWS	10			
FINS/FT	96			
CONTROL VALVE	-			
DUAL TEMP REHEAT COIL				
AIRFLOW (CFM)	40000			
TOTAL CAP (MBH)	891			
SENS CAP (MBH)	-			
EAT DB/WB (DEG F)	75 / 55			
LAT DB/WB (DEG F)	75 / 62			
EWT/LWT (DEG F)	110 / 100			
COIL FLOW (GPM)	290			
FLUID VELOCITY (FPS)	-			
FLUID	30% PG			
WPD (FT)	3.7			
APD (IN W.C.)	0.76			
ROWS	2			
FINS/FT	84			
CONTROL VALVE	-			
ELECTRICAL				
ELECTRICAL (V / PH)	460/3			
MOP	150			
MCA	129.1			
REMARKS:	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13			

REMARKS:
1. ALL SECTIONS SHALL BE DOUBLE WALL CONSTRUCTION WITH MINIMUM R-13 INSULATION, SMACNA LEAKAGE CLASS 5.0, MAXIMUM L/250 PANEL DEFLECTION, AND DESIGNED FOR OUTDOOR INSTALLATION.
2. PROVIDE AND INSTALL WITH ENERGY RECOVERY UNIT. REFER TO ENERGY RECOVERY UNIT SHEDULE FOR MORE INFORMATION.
3. HYDRONIC COILS SHALL BE STAINLESS STEEL CASING WITH COPPER OR RED BRASS HEADER AND WITH STAINLESS STEEL INSULATED IAQ DRAIN PAN.
4. PROVIDE AND INSTALL WITH SINGLE POINT ELECTRICAL POWER CONNECTION.
5. PROVIDE AND INSTALL INDIVIDUAL PACKAGED VARIABLE SPEED DRIVES FOR ALL SUPPLY AND EXHAUST FANS. FANS SHALL BE CONFIGURED TO OPERATE INDEPENDENTLY ON FAILURE OF OTHER FANS.
6. PROVIDE AND INSTALL WITH (2) MANUAL BLANK-OFF PLATES TO ISOLATE FAILED FANS.
7. PROVIDE AND INSTALL WITH EXTERNAL HEATED AND VENTILATED VSD PLENUM CABINET.
8. REFER TO DRAWING PLANS AND DETAILS FOR MODULE CONFIGURATIONS.
9. MOTOR SHALL BE MULTI-TAP 460/240/208 BALDOR SUPER-E WITH INTEGRAL SHAFT GROUNDING RING AND COMPLY WITH NEMA MG1 FOR VARIABLE SPEED OPERATION.
10. MOTOR SHALL HAVE CLASS F INSULATION FOR USE WITH VARIABLE SPEED DRIVE.
11. PROVIDE AND INSTALL WITH 12" TALL INSULATED METAL ROOF CURB WITH KINETICS NOISE CONTROL KIP-RT ISOLATION STRIPS AND RT-7 MINIMUM STC 37 PANELS.
12. PROVIDE AND INSTALL WITH OUTSIDE AIR AND EXHAUST AIR WEATHER HOOD WITH ALUMINUM BIRD SCREEN.
13. PROVIDE AND INSTALL WITH OUTSIDE AIR AND EXHAUST AIR INSULATED LOW LEAKAGE CONTROL DAMPERS. ACTUATORS FURNISHED AND INSTALLED BY TCC.

PL=PLENUM, AF=AIRFOIL, FC=FORARD CURVE, BI=BACKWARD INCLINED
TPFT=TOP FRONT, TPBK=TOP BACK, FTTP=FRONT TOP, FTBT=FRONT BOTTOM
BTFT=BOTTOM FRONT, BTBK=BOTTOM BACK, SD=SIDE

NATATORIUM AIR HANDLER SCHEDULE

TAG	DHU-1	DHU-2	
MFR.	INNOVENT	INNOVENT	
MODEL	NDHU-OU-PL-41500-AC-HG-IF-460	NDHU-OU-PL-41500-AC-HG-IF-460	
UNIT DIM LxWxH (IN)	360 x 126 x 135	360 x 126 x 135	
UNIT WIEGHT (LBS)	19,700	19,700	
SUPPLY FAN			
AIRFLOW (CFM)	41,500	41,500	
OUTSIDE AIR (CFM)	15500	15500	
TSP (IN W.C.)	3.71	3.71	
ESP (IN W.C.)	1.0	1.0	
FILTER SP (IN W.C.)	0.24	0.24	
FILTER TYPE	2" MERV 8	2" MERV 8	
FAN RPM	1595	1595	
MOTOR SYNCH RPM	1800	1800	
FAN TYPE	PL	PL	
WHEEL DIAMETER (IN)	30	30	
FAN QUANTITY	2	2	
DRIVE TYPE	DIRECT	DIRECT	
MOTOR (HP, EA)	25	25	
MOTOR (BHP, EA)	18.9	18.9	
ELECTRICAL (V / PH)	460/3	460/3	
MODULATION	VSD	VSD	
EXHAUST FAN			
AIRFLOW (CFM)	19,600	19,600	
OUTSIDE AIR (CFM)			
TSP (IN W.C.)	2.9	2.9	
ESP (IN W.C.)	1	1	
FILTER SP (IN W.C.)	0.43	0.43	
FILTER TYPE	2" MERV 8	2" MERV 8	
FAN RPM	1835	1835	
MOTOR SYNCH RPM	1800	1800	
FAN TYPE	PL	PL	
WHEEL DIAMETER (IN)	22	22	
FAN QUANTITY	2	2	
DRIVE TYPE	DIRECT	DIRECT	
MOTOR (HP, EA)	10	10	
MOTOR (BHP, EA)	7.4	7.4	
ELECTRICAL (V / PH)	460/3	460/3	
MODULATION	VSD	VSD	
DX COIL			
AIRFLOW (CFM)	15500	15500	
TOTAL CAP (MBH)	1047.9	1047.9	
SENS CAP (MBH)	438.5	438.5	
EAT DB/WB (DEG F)	85.2 / 77.5	85.2 / 77.5	
LAT DB/WB (DEG F)	56.7 / 59.7	56.7 / 59.7	
ROWS	6	6	
FPI	10	10	
PD (IN W.C.)	0.69	0.69	
REFRIGERANT	R-410A	R-410A	
CIRCUITS	2	2	
HOT GAS REHEAT			
AIRFLOW (CFM)	41500	41500	
TOTAL CAP (MBH)	537	537	
EAT DB/WB (DEG F)	75.0 / 68.5	75.0 / 68.5	
LAT DB/WB (DEG F)	86.9 / 72.1	86.9 / 72.1	
ROWS	2	2	
FPI	10	10	
PD (IN W.C.)	0.45	0.45	
REFRIGERANT	R-410A	R-410A	
CIRCUITS	2	2	
INDIRECT GAS-FIRED FURNACE			
AIRFLOW (CFM)	41500	41500	
FURNACE QUANTITY	2	2	
INPUT CAP (MBH)	600	600	
OUTPUT CAP (MBH)	480	480	
FUEL	NATURAL GAS	NATURAL GAS	
FUEL PRESSURE	6-14" W.C.	6-14" W.C.	
PD (IN W.C.)	0.33	0.33	
AIR-COOLED REFRIGERATION			
TONS	87.3	87.3	
AMBIENT (DEG F)	95	95	
CIRCUITS	2	2	
STAGES	4	4	
EER	11.4	11.4	
ELECTRICAL			
VOLTAGE/PHASE	460/3	460/3	
MCA	247.8	247.8	
MOP	400	400	
REMARKS:	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	

REMARKS:
1. ALL SECTIONS SHALL BE DOUBLE WALL ALUMINUM CONSTRUCTION WITH MINIMUM R-13 INSULATION, SMACNA LEAKAGE CLASS 5.0, MAXIMUM L/250 PANEL DEFLECTION, AND DESIGNED FOR OUTDOOR INSTALLATION.
2. PROVIDE AND INSTALL WITH ENERGY RECOVERY UNIT SHEDULE FOR MORE INFORMATION.
3. REFRIGERANT COILS SHALL BE STAINLESS STEEL CASING WITH COPPER AND WITH STAINLESS STEEL INSULATED IAQ DRAIN PAN.
4. PROVIDE AND INSTALL WITH SINGLE POINT ELECTRICAL POWER CONNECTION.
5. PROVIDE AND INSTALL INDIVIDUAL PACKAGED VARIABLE SPEED DRIVES FOR ALL SUPPLY AND EXHAUST FANS. FANS SHALL BE CONFIGURED TO OPERATE INDEPENDENTLY ON FAILURE OF OTHER FANS.
6. PROVIDE AND INSTALL WITH (2) MANUAL BLANK-OFF PLATES TO ISOLATE FAILED FANS.
7. PROVIDE AND INSTALL WITH PACKAGED CONTROLS AND ALL ASSOCIATED ACTUATORS, DAMPERS, SENSORS, CONTROLERS, CABLING ETC. FOR A COMPLETE AND FULLY FUNCTIONING UNIT IN EVERY RESPECT. PROVIDE AND INSTALL WITH BACNET INTERFACE.
8. PROVIDE AND INSTALL WITH BACNET INTERFACE.
9. PROVIDE AND INSTALL WITH EXTERNAL HEATED AND VENTILATED VSD PLENUM CABINET.
10. PROVIDE AND INSTALL WITH FACTORY WIRED ELECTRICAL DISCONNECT
11. REFER TO DRAWING PLANS AND DETAILS FOR MODULE CONFIGURATIONS.
12. MOTOR SHALL BE MULTI-TAP 460/240/208 BALDOR SUPER-E WITH INTEGRAL SHAFT GROUNDING RING AND COMPLY WITH NEMA MG1 FOR VARIABLE SPEED OPERATION.
13. PROVIDE AND INSTALL WITH 12" TALL INSULATED METAL ROOF CURB WITH KINETICS NOISE CONTROL KIP-RT ISOLATION STRIPS AND RT-7 MINIMUM STC 37 PANELS.
14. PROVIDE AND INSTALL WITH OUTSIDE AIR AND EXHAUST AIR WEATHER HOOD WITH ALUMINUM BIRD SCREEN.
15. PROVIDE AND INSTALL WITH OUTSIDE AIR AND EXHAUST AIR INSULATED LOW LEAKAGE CONTROL DAMPERS.
16. PROVIDE AND INSTALL WITH MODULATING STAINLESS STEEL GAS FIRED HEAT EXCHANGER.

DIFFUSER AND GRILLE SCHEDULE

TAG	MFR.	MODEL	NECK SIZE (IN)	FACE SIZE (IN)	THROW PATTERN	MAX CFM	MAX APD (IN)	THROW (FT)	MAX NC	MATERIAL	REMARKS
D-1	TITUS	TMS	6	12x12	4-WAY	100	0.03	6	20	STEEL	1, 2
D-2	TITUS	TMS	8	24x24	4-WAY	245	0.05	9	15	STEEL	1, 3
D-3	TITUS	TMS	10	24x24	4-WAY	400	0.06	19	13	STEEL	1, 3
D-4	TITUS	TMS	12	24x24	4-WAY	700	0.08	28	19	STEEL	1, 3
D-5	TITUS	TBDI-80	10	48x10	(4) 1-1/2" SLOT	460	0.1	27	32	STEEL	1, 3, 4
D-6	TITUS	300RL	12x10	14x12	DBL DEFL	430	0.11	12	21	STEEL	1, 3
D-7	TITUS	CT 481	24x4	26x6	FLOOR GRILLE	200	0.04	17	18	ALUMINUM	2
D-8	TITUS	TBDI-80	10	48x8	(3) 1-1/2" SLOT	330	0.1	23	28	STEEL	1, 3, 4
D-9	TITUS	TND-AA	8	10	NOZZLE	200	0.48	35	28	ALUMINUM	2, 7, 8
D-10	TITUS	TND-AA	12	14	NOZZLE	600	0.51	58	29	ALUMINUM	2, 7, 8
D-11	TITUS	300FL	12x6	14x8	DBL DEFL	250	0.07	9	19	ALUMINUM	1, 2
D-12	TITUS	TMS-AA	10	24x24	4-WAY	440	0.07	7	22	ALUMINUM	1, 2, 5
D-13	TITUS	TMS	6	12x12	4-WAY	100	0.03	6	20	STEEL	1, 2, 5
RG-1	TITUS	45F	-	12x12	45 DEG EGG	400	0.04	-	15	ALUMINUM	1, 2
RG-2	TITUS	45F	-	24x24	45 DEG EGG	1600	0.04	-	15	ALUMINUM	1, 3
RG-3	TITUS	50FF	20x20	24x24	EGG/FILTER	800	0.2	-	30	ALUMINUM	1, 3, 6
RG-4	TITUS	50FF	20x20	24x24	EGG/FILTER	800	0.2	-	30	ALUMINUM	1, 2, 6
RG-5	TITUS	350RLF1	24x14	26x16	35 DEG DEFL	855	0.03	-	10	STEEL	1, 2, 6
RG-6	TITUS	271FL	46x34	48x36	35 DEG DEFL	5250	0.03	-	20	ALUMINUM	1, 2, 5
EG-1	TITUS	45F	-	12x12	45 DEG EGG	400	0.04	-	15	ALUMINUM	1, 2
EG-2	TITUS	45F	-	24x24	45 DEG EGG	1600	0.04	-	15	ALUMINUM	1, 3
EG-3	TITUS	TBR-80			(2) 1-1/2" SLOT	720	0.09	-	22	STEEL	
EG-4	TITUS	350FL	12x6	14x8	35 DEG DEFL	185	0.03	-	10	ALUMINUM	1, 2, 5
EG-5	TITUS	350RL-SS	20x20	22x22	45 DEG DEFL	1030	0.01	-	10	STAINLESS	2
EG-6	TITUS	45F	-	12x12	45 DEG EGG	400	0.04	-	15	ALUMINUM	1, 2, 5
TG-1	TITUS	45F	-	12x12	45 DEG EGG	400	0.04	-	15	ALUMINUM	1, 2
TG-2	TITUS	45F	-	24x24	45 DEG EGG	1600	0.04	-	15	ALUMINUM	1, 3
TG-3	TITUS	350FL	24x16	26x18	35 DEG DEFL	985	0.03	-	10	STEEL	1, 2
TG-4	TITUS	350FL	18x12	20x14	35 DEG DEFL	540	0.03	-	10	ALUMINUM	1, 2
TG-5	TITUS	350FL	18x42	20x44	35 DEG DEFL	1980	0.03	-	10	ALUMINUM	1, 2

REMARKS:
1. COLOR SHALL BE WHITE.
2. PROVIDE AND INSTALLWITH FRAME FOR SURFACE INSTALLATION.
3. PROVIDE AND INSTALL WITH FRAME FOR LAY-IN INSTALLATION.
4. PROVIDE AND INSTALL WITH INSULATED DISTRIBUTION PLENUM.
5. PROVIDE AND INSTALL WITH FACE OPERATED BUTTERFLY VOLUME DAMPER.
6. HINGED FILTER GRILLE. PROVIDE WITH 1" THICK MERV 8 FILTER AND (1) ADDITIONAL SPARE.
7. PROVIDE AND INSTALL WITH FACE OPERATED APERTURE VOLUME DAMPER.
8. STANDARD COLOR SELECTION BY ARCHITECT.

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
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REVISIONS:

#	Date	Desc.
2	9/6/2023	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: ASL

MECHANICAL SCHEDULES

M502

PRIMARY JOB # 22417

PLOT DATE/TIME: 9/6/2023 2:41:38 PM
THIS MONOCHROME PRINT SHOULD DISPLAY GRAY SHADES BELOW, IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

ROOFTOP UNIT SCHEDULE

				SUPPLY									EXHAUST								HEATING				COOLING											
TAG	MFR.	MODEL	SERVICE	AIRFLOW (CFM)	TSP (IN WC)	ESP (IN WC)	MIN. O.A. (CFM)	FILTER	DRIVE TYPE	MOTOR (HP)	MOTOR (BHP)	RPM	AIRFLOW (CFM)	TSP (IN WC)	ESP (IN WC)	FILTER	DRIVE TYPE	MOTOR (HP)	MOTOR (BHP)	RPM	INPUT (MBH)	OUTPUT (MBH)	EAT/LAT (DEG F)	TURNDOWN	TOTAL (MBH)	SENS. (MBH)	EDB/EWB (DEG F)	LDB/LWB (DEG F)	AMBIENT TEMP (DEG F)	REHEAT TOTAL (MBH)	REHEAT EAT/LAT (DEG F)	ELEC (V/PH)	MCA	FLA	MOCP	OP. WEIGHT (LBS)	REFRIGERANT	REMARKS
DOAS-2	VALENT	VXC-212-58E	LOCKER ROOM	5100	3.16	1.50	5100	2" MERV 8	DIRECT	5.0	3.88	1545	5100	2.55	1.50	2" MERV 8	DIRECT	5.0	3.56	1495	400	320	44.5 / 102.6	15:1	221.2	139.2	79.4 / 67.9	54.6 / 54.4	95	169.8	54.6 / 85.4	460/3	58.9	50.9	90	4133	R410A	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

REMARKS:
1. PROVIDE AND INSTALL WITH SINGLE POINT POWER AND FACTORY WIRED NON-FUSED ELECTRICAL DISCONNECT.
2. ALL SECTIONS SHALL BE DOUBLE WALL CONSTRUCTION WITH MINIMUM R-13 INSULATION DESIGNED FOR OUTDOOR INSTALLATION.
3. PROVIDE AND INSTALL WITH 24" TALL INSULATED METAL ROOF CURB.
4. PROVIDE AND INSTALL WITH ELECTRICAL POWER PHASE LOSS PROTECTION.
5. PROVIDE AND INSTALL WITH MODULATING STAINLESS STEEL GAS FIRED HEAT EXCHANGER.
6. PROVIDE AND INSTALL WITH OUTSIDE AIR AND EXHAUST AIR INSULATED LOW LEAKAGE CONTROL DAMPERS.
7. PROVIDE AND INSTALL WITH OUTSIDE AIR AND EXHAUST AIR WEATHER HOOD WITH ALUMINUM BIRD SCREEN.
8. PROVIDE AND INSTALL WITH PACKAGED CONTROLS AND ALL ASSOCIATED ACTUATORS, DAMPERS, SENSORS, CONTROLERS, CABLING ETC. FOR A COMPLETE AND FULLY FUNCTIONING UNIT IN EVERY RESPECT. PROVIDE AND INSTALL WITH BACNET INTERFACE.
9. PROVIDE AND INSTALL WITH PACKAGED VARIABLE SPEED DRIVES.
10. PROVIDE AND INSTALL WITH ENERGY RECOVERY UNIT. REFER TO ENERGY RECOVERY UNIT SHEDULE FOR MORE INFORMATION.
11. PROVIDE AND INSTALL WITH STAINLESS STEEL iAQ DRAIN PAN WITH OVERFLOW SWITCH.
12. MOTOR SHALL BE MULTI-TAP 460/240/208 BALDOR SUPER-E WITH INTEGRAL SHAFT GROUNDING RING AND COMPLY WITH NEMA MG1 FOR VARIABLE SPEED OPERATION.
13. PROVIDE AND INSTALL WITH LOUVERED HAIL GUARDS.

WATER SOURCE HEAT PUMP REVERSIBLE CHILLER SCHEDULE

				COOLING LOAD						SOURCE				HEATING LOAD						SOURCE						
TAG	MFR.	MODEL	SERVICE	TOTAL COOL (MBH)	EWT / LWT (DEG F)	FLUID	FLOW (GPM)	WPD (FT)	HEAT REJECT (MBH)	EWT / LWT (DEG F)	FLUID	FLOW (GPM)	WPD (FT)	EER	TOTAL HEAT (MBH)	EWT / LWT (DEG F)	FLUID	FLOW (GPM)	WPD (FT)	HEAT EXTRACT (MBH)	EWT / LWT (DEG F)	FLUID	FLOW (GPM)	WPD (FT)	COP	ELEC (V/PH)	FLA	MAX. CIR. AMPS	MAX FUSE SIZE	REMARKS
HP-1	WATERFURNACE	NXW600	DOAS-1 PRIMARY COIL	586.5	55 / 45	30% PG	121	10.9	735.3	86 / 96	WATER	150	9.5	13.5	695.4	100 / 110	30% PG	143	10.2	523.1	60 / 70	WATER	150	10.2	4	460/3	79.4	89.3	125	1, 2, 3, 4, 5, 6, 7
HP-2	WATERFURNACE	NXW600	DOAS-1 PRIMARY COIL	586.5	55 / 45	30% PG	121	10.9	735.3	86 / 96	WATER	150	9.5	13.5	695.4	100 / 110	30% PG	143	10.2	523.1	60 / 70	WATER	150	10.2	4	460/3	79.4	89.3	125	1, 2, 3, 4, 5, 6, 7
HP-3	WATERFURNACE	NXW600	DOAS-1 PRIMARY COIL	586.5	55 / 45	30% PG	121	10.9	735.3	86 / 96	WATER	150	9.5	13.5	695.4	100 / 110	30% PG	143	10.2	523.1	60 / 70	WATER	150	10.2	4	460/3	79.4	89.3	125	1, 2, 3, 4, 5, 6, 7
HP-4	WATERFURNACE	NXW600	DOAS-1 PRIMARY COIL	586.5	55 / 45	30% PG	121	10.9	735.3	86 / 96	WATER	150	9.5	13.5	695.4	100 / 110	30% PG	143	10.2	523.1	60 / 70	WATER	150	10.2	4	460/3	79.4	89.3	125	1, 2, 3, 4, 5, 6, 7
HP-5	WATERFURNACE	NXW600	DOAS-1 REHEAT COIL	586.5	55 / 45	30% PG	121	10.9	735.3	86 / 96	WATER	150	9.5	13.5	695.4	100 / 110	30% PG	143	10.2	523.1	60 / 70	WATER	150	10.2	4	460/3	79.4	89.3	125	1, 2, 3, 4, 5, 6, 7
HP-6	WATERFURNACE	NXW600	DOAS-1 REHEAT COIL	586.5	55 / 45	30% PG	121	10.9	735.3	86 / 96	WATER	150	9.5	13.5	695.4	100 / 110	30% PG	143	10.2	523.1	60 / 70	WATER	150	10.2	4	460/3	79.4	89.3	125	1, 2, 3, 4, 5, 6, 7

REMARKS:
1. PROVIDE AND INSTALL WITH FACTORY WIRED FUSED ELECTRICAL DISCONNECT.
2. PROVIDE AND INSTALL WITH PACKAGED CONTROLS WITH BACNET MSTP INTERFACE.
3. PROVIDE AND INSTALL WITH ELECTRICAL PHASE LOSS PROTECTION.
4. PROVIDE AND INSTALL WITH NEOPRENE VIBRATION ISOLATION MOUNTS.
5. PROVIDE AND INSTALL WITH COMPRESSOR SOUND BLANKETS.
6. PROVIDE AND INSTALL WITH FLOW PROVING SWITCH.
7. PROVIDE AND INSTALL WITH (2) TWO-POSITION AUTOMATIC CONTROL VALVES AND 120V ACTUATORS TO ISOLATE LOAD AND SOURCE SIDES. CONTROL VALVE AND ACTUATOR FURNISHED BY TCC.

PLATE AND FRAME HEAT EXCHANGER SCHEDULE

									FLUID 1 - HEAT PUMP LOOP					FLUID 2 - COOLING TOWER LOOP				
TAG	MFR.	MODEL	LMTD (DEG F)	EFF SURF AREA (SF)	PLATES	SIZE WxHxL (IN)	EMPTY/FLOODED WEIGHT (LBS)	CAPACITY (MBH)	FLUID TYPE	FLOW (GPM)	EWT/LWT (DEG F)	PD (PSI)	FLUID TYPE	FLOW (GPM)	EWT/LWT (DEG F)	PD (PSI)	REMARKS
HX-1.1	BELL & GOSSETT	GPX AP86	5.01	1,385.32	145	25.75 x 94.86 x 44.40	3,964 / 4,821	5,975	WATER	1200	100 / 90	9.42	WATER	1200	85 / 95	9.53	1, 2, 3, 4, 5
HX-1.2	BELL & GOSSETT	GPX AP86	5.01	1,385.32	145	25.75 x 94.86 x 44.40	3,964 / 4,821	5,975	WATER	1200	100 / 90	9.42	WATER	1200	85 / 95	9.53	1, 2, 3, 4, 5
HX-2.1	BELL & GOSSETT	GPX AP86	5.01	1,385.32	145	25.75 x 94.86 x 44.40	3,964 / 4,821	5,975	WATER	1200	100 / 90	9.42	WATER	1200	85 / 95	9.53	1, 2, 3, 4, 5
HX-2.2	BELL & GOSSETT	GPX AP86	5.01	1,385.32	145	25.75 x 94.86 x 44.40	3,964 / 4,821	5,975	WATER	1200	100 / 90	9.42	WATER	1200	85 / 95	9.53	1, 2, 3, 4, 5

REMARKS:
1. FOULING FACTOR OF 0.001
2. PLATES SHALL BE 304 STAINLESS STEEL, 0.4MM.
3. GASKETS SHALL BE NITRILE HT
4. WATER CONNECTIONS SHALL BE 6" PORT STUDDED FOR 150# ANSI FLANGE.
5. PROVIDE AND INSTALL WITH (2) TWO-POSITION AUTOMATIC CONTROL VALVES AND 120V ACTUATORS TO ISOLATE HEAT PUMP LOOP AND COOLING TOWER LOOP SIDES. CONTROL VALVE AND ACTUATOR FURNISHED BY TCC.

EXHAUST FAN SCHEDULE

TAG	AREA SERVED	MFR.	MODEL	CFM	TSP (IN W.C.)	MOTOR (HP)	MOTOR (BHP)	MOTOR (W)	RPM	DRIVE TYPE	IN/OUT/RAD DBA	SONES	ELEC (V/PH)	CONTROL	REMARKS
EF-A1	BOILER ROOM	GREENHECK	G-140-VG	2000	1.00	1.0	0.68	-	1495	DIRECT	65 / - / -	13.9	115/1	TCC	1, 3, 4, 5, 6
EF-J1	1ST FLR J RESTROOMS	GREENHECK	SQ-160-VG	1600	1.00	3/4	0.46	-	1130	DIRECT	62 / - / 55	-	115/1	TCC	2, 5, 7, 8
EF-J2	2ND FLR J RESTROOMS	GREENHECK	SQ-160-VG	1600	1.00	3/4	0.46	-	1130	DIRECT	62 / - / 55	-	115/1	TCC	2, 5, 7, 8
EF-J3	3RD FLR J RESTROOMS	GREENHECK	SQ-160-VG	1600	1.00	3/4	0.46	-	1130	DIRECT	62 / - / 55	-	115/1	TCC	2, 5, 7, 8
EF-J4	PREP J313 HOOD	GREENHECK	CUE-140-VG	800	0.75	1/2	0.19	-	1100	DIRECT	57 / - / -	9.6	115/1	TCC	1, 3, 4, 5, 6, 9
EF-J5	SCIENCE LAB J315/317	GREENHECK	CUE-140-VG	1000	0.75	1/2	0.23	-	1120	DIRECT	57 / - / -	9.7	115/1	TCC	1, 3, 4, 5, 6, 9
EF-J6	SCIENCE LAB J317 HOOD	GREENHECK	CUE-140-VG	800	0.75	1/2	0.19	-	1100	DIRECT	57 / - / -	9.6	115/1	TCC	1, 3, 4, 5, 6, 9
EF-J7	PREP J313 ACID CABINET	FANTECH	FR 100	75	0.5	-	-	28	2880	DIRECT	-	-	115/1	EC	7
EF-K1	SCIENCE LAB K301 HOOD	GREENHECK	CUE-140-VG	800	0.75	1/2	0.19	-	1100	DIRECT	57 / - / -	9.6	115/1	TCC	1, 3, 4, 5, 6, 9
EF-K2	SCIENCE LAB K303 HOOD	GREENHECK	CUE-140-VG	800	0.75	1/2	0.19	-	1100	DIRECT	57 / - / -	9.6	115/1	TCC	1, 3, 4, 5, 6, 9
EF-K3	SCIENCE LAB K301/K303	GREENHECK	CUE-140-VG	1000	0.75	1/2	0.23	-	1120	DIRECT	57 / - / -	9.7	115/1	TCC	1, 3, 4, 5, 6, 9
EF-K4	PREP K305 HOOD	GREENHECK	CUE-140-VG	800	0.75	1/2	0.19	-	1100	DIRECT	57 / - / -	9.6	115/1	TCC	1, 3, 4, 5, 6, 9
EF-K5	PREP K305 ACID CABINET	FANTECH	FR 100	75	0.5	-	-	28	2880	DIRECT	-	-	115/1	EC	7
EF-M1	CHEM M101A	PLASTEC	P15-2	500	1.0	1/2	-	-	3150	DIRECT	-	-	115/1	EC	-
EF-M2	MECH M101	PLASTEC	P25-4	1700	1.0	3/4	-	-	1800	DIRECT	-	-	115/1	EC	-
TF-J1	STORAGE J138	GREENHECK	SQ-99-VG	400	0.5	1/4	0.1	-	1275	DIRECT	56 / - / 56	-	115/1	EC	2, 5, 7, 8
TF-J2	SCIENCE LAB J317 AV CLOSET	GREENHECK	SQ-99-VG	400	0.5	1/4	0.1	-	1275	DIRECT	56 / - / 56	-	115/1	EC	2, 5, 7, 8
TF-K1	MACHINE K113	GREENHECK	SQ-100-VG	1000	0.5	1/4	0.16	-	1525	DIRECT	58 / - / 54	-	115/1	TCC	2, 5, 7, 8
TF-L1	ELEC L113	GREENHECK	SQ-100-VG	1000	0.5	1/4	0.16	-	1525	DIRECT	58 / - / 54	-	115/1	TCC	2, 5, 7, 8
TF-M1	TECH M201A	GREENHECK	SQ-100-VG	1000	0.5	1/4	0.16	-	1525	DIRECT	58 / - / 54	-	115/1	TCC	2, 5, 7, 8

REMARKS:
1. PROVIDE AND INSTALL WITH FACTORY WIRED NEMA-3R ELECTRICAL DISCONNECT SWITCH.
2. PROVIDE AND INSTALL WITH FACTORY WIRED NEMA-1 ELECTRICAL DISCONNECT SWITCH.
3. PROVIDE AND INSTALL WITH 24" TALL INSULATED METAL ROOF CURB WITH HINGED BASE KIT, RESTRAINING CABLES, AND SOUND ATTENUATING BAFFLES.
4. CONTROL DAMPER SHALL BE ACCESSIBLE FROM ROOF. DAMPER AND ACTUATOR FURNISHED BY TCC.
5. PROVIDE AND INSTALL WITH ELECTRONICALLY COMMUTATED MOTOR WITH SPEED ADJUSTMENT DIAL ON MOTOR AND WIRING PIGTAIL FOR SPEED CONTROL BY TCC.
6. PROVIDE AND INSTALL WITH ALUMINUM BIRDSCREEN.
7. PROVIDE AND INSTALL WITH NEOPRENE VIBRATION ISOLATION HANGERS.
8. PROVIDE AND INSTALL WITH GRAVITY BACKDRAFT DAMPER ON FAN OUTLET.
9. PROVIDE AND INSTALL WITH HI-PRO POLYESTER COATING.

NOTES:
TCC = TEMPERATURE CONTROL CONTRACTOR.
EC = ELECTRICAL CONTRACTOR.

ENERGY RECOVERY UNIT SCHEDULE

			EXHAUST AIR					OUTSIDE VENTILATION AIR					
TAG	MFR.	TYPE	AIRFLOW (CFM)	ESP (IN W.C.)	MODE	EDB/EWB (DEG F)	LDB/LWB (DEG F)	AIRFLOW (CFM)	ESP (IN W.C.)	MODE	EDB/EWB (DEG F)	LDB/LWB (DEG F)	REMARKS
DOAS-1	INNOVENT	SENSIBLE FIXED PLATE	40000	1.01	**SUMMER**	75 / 63	85.1 / 66.0	40000	1.03	**SUMMER**	92 / 76	81.9 / 73.3	1
			40000	0.92	**WINTER**	70 / 53	28.8 / 28.8	40000	0.82	**WINTER**	-10 / -10	38.8 / 26.7	
DOAS-2	VALENT	ENERGY WHEEL	5100	0.49	**SUMMER**	75 / 63	79.4 / 67.9	5100	0.47	**SUMMER**	92 / 76	86.6 / 72.7	2
			5100	0.49	**WINTER**	70 / 53	44.5 / 38.6	5100	0.47	**WINTER**	-10 / -10	13.4 / 13.4	
DHU-1	INNOVENT	SENSIBLE FIXED PLATE	19600	1.04	**SUMMER**	84 / 74	85.7 / 73.0	15500	0.7	**SUMMER**	87.3 / 78.0	85.2 / 77.5	3
			11900	0.43	**WINTER**	84 / 68	51.5 / 51.5	7800	0.2	**WINTER**	-10 / -10	59.9 / 38.6	
DHU-2	INNOVENT	SENSIBLE FIXED PLATE	19600	1.04	**SUMMER**	84 / 74	85.7 / 73.0	15500	0.7	**SUMMER**	92 / 76	89.9 / 75.5	3
			11900	0.43	**WINTER**	84 / 68	51.5 / 51.5	7800	0.2	**WINTER**	-10 / -10	59.9 / 38.6	

REMARKS:
1. PROVIDE AND INSTALL WITH ALUMINUM SENSIBLE CROSS FLOW HEAT EXCHANGER WITH ALUMINUM FRAME, END PLATES, AND STAINLESS STEEL DRAIN PAN.
2. PROVIDE AND INSTALL WITH ALUMINUM ENERGY WHEEL WITH MOLECULAR SIEVE DESICCANT.
3. PROVIDE AND INSTALL WITH ALUMINUM SENSIBLE CROSS FLOW HEAT EXCHANGER WITH ALUMINUM FRAME, END PLATES, AND DRAIN PAN.

WATER FLOW/ENERGY METER SCHEDULE

TAG	MFR.	FLOW METER	SENSOR TYPE	DISPLAY	SYSTEM SERVED	FLUID	PIPE SIZE (IN)	DESIGN NOMINAL FLOW	ACCURACY (% OF FLOW RATE)	ELEC (V/PH)	REMARKS
FM-1	ONICON	F-3500	ELECTROMAG / INSERTION	SYSTEM 10	HEAT PUMP	WATER	12	1400	1.0 %	24 VDC	1, 2, 3, 4, 5, 6
FM-2	ONICON	F-3500	ELECTROMAG / INSERTION	SYSTEM 10	DOAS-1	WATER	6	520	1.0 %	24 VDC	1, 2, 3, 4, 5, 6
FM-3	ONICON	F-3500	ELECTROMAG / INSERTION	SYSTEM 10	DOAS-1	WATER	4	290	1.0 %	24 VDC	1, 2, 3, 4, 5, 6
FM-4	ONICON	F-3500	ELECTROMAG / INSERTION	SYSTEM 10	DOAS-1	WATER	8	900	1.0 %	24 VDC	1, 2, 3, 4, 5, 6

2

REMARKS:
1. 316 STAINLESS STEEL CONSTRUCTION.
2. PROVIDE AND INSTALL WITH DISPLAY UNIT.
3. CONTRACTOR SHALL VERIFY REQUIRED UPSTREAM AND DOWNSTREAM MINIMUM STRAIGHT PIPE REQUIREMENTS DURING INSTALL.
4. PROVIDE FACTORY AUTHORIZED TECHNICIAN TO CALIBRATE AND CONFIGURE METER FOR SPECIFIC PIPE/FLUID PARAMETERS.
5. PROVIDE AND INSTALL WITH HOT TAP ADAPTER.
6. TCC SHALL FURNISH POWER TRANSFORMER DEDICATED TO POWER FLOWMETER. TRANSFORMER INSTALLED BY EC. COORDINATE WITH EC.

PLOT DATE/TIME: 8/9/2023 2:41:44 PM

THIS MONOCHROME PRINT SHOULD DISPLAY GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

0 16 32 48 SCALE: 1/16" = 1'-0"
0 8 16 24 32 SCALE: 3/32" = 1'-0"
0 8 16 24 SCALE: 1/8" = 1'-0"
0 4 8 12 SCALE: 1/4" = 1'-0"
0 2 4 6 SCALE: 1/2" = 1'-0"
0 2 4 SCALE: 3/4" = 1'-0"
0 1 2 3 SCALE: 1" = 1'-0"

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CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

ANDREW STEPHEN LUDEBAKE
REGISTERED
PE11700017
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
2	08/2023	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: ASL

MECHANICAL SCHEDULES

M503

PRIMARY JOB # 22417

GLYCOL FILL STATION SCHEDULE

TAG	MFR.	MODEL	CAPACITY (GAL)	MAX. PRESSURE (PSI)	FLOW RATE (GPM)	MOTOR SIZE (HP)	ELEC (V/PH)	REMARKS
GFS-1	ADVANTAGE CONTROLS	GF-1A1A0	55	60	5	1/3	120/1	1, 2, 3
GFS-2	ADVANTAGE CONTROLS	GF-1A1A0	55	60	5	1/3	120/1	1, 2, 3

REMARKS:
1. PROVIDE AND INSTALL WITH FULLY PIPED PRESSURE SWITCH, PRESSURE GAUGE, AND LOW LEVEL ALARM SYSTEM.
2. PROVIDE WITH AUXILLARY ALARM CONTACT FOR LOW LEVEL FOR BMS INTEGRATION.
3. FURNISHED BY CHEMICAL TREATMENT PROVIDER, INSTALLED BY MC. COORDINATE WITH CHEMICAL TREATMENT PROVIDER.

ELECTRIC UNIT HEATER SCHEDULE

TAG	MFR.	MODEL	TYPE	CAPACITY (KW)	AIRFLOW (CFM)	ELEC (V/PH)	REMARKS
UH-M1	QMARK	QWD02	HORIZONTAL	2.0	700	208/1	1

REMARKS:
1. PROVIDE AND INSTALL WITH FACTORY WIRED ELECTRICAL DISCONNECT.

VARIABLE AIR VOLUME TERMINAL SCHEDULE

TAG	MFR.	MODEL	TYPE	SERVICE	MIN COOLING AIR (CFM)	MAX COOLING AI...	MIN HEATING AIR (CFM)	MAX HEATING AIR (CFM)	INLET S.P.	DOWNSTRM S.P.	INLET SIZE (IN)	HEATING (KW)	AIR P.D. (IN)	ELEC (V/PH)	MCA	MOP	REMARKS
VAV-1	TITUS	DESV 04	SO	OFFICE L102	70	200	70	135	1"	0.25"	4	1.0	0.04	120/1	10.4	15	1, 2, 3, 4, 5, 6
VAV-2	TITUS	DESV 04	SO	CONTROLS...	50	150	50	100	1"	0.25"	4	1.0	0.04	120/1	10.4	15	1, 2, 3, 4, 5, 6

REMARKS:
1. PROVIDE AND INSTALL WITH LINED DISCHARGE PLENUM SAME SIZE AS COIL DICHARGE, 9' LONG (MIN).
2. PROVIDE AND INSTALL WITH FACTORY WIRED CONTROL TRANSFORMER (120 VAC TO 24 VDC).
3. PROVIDE AND INSTALL WITH LINED INLET SOUND ATTENUATOR AND FILTER ON RETURN CONNECTION.
4. COILS RATED WITH 55 DEG EAT AND 75 DEG LAT.
5. PROVIDE AND INSTALL WITH SCR ELECTRIC HEATER WITH AUTO RESET THERMAL CUTOUTS, MANUAL RESET, FLOW SWITCH, AND MAGNETIC CONTACTORS.
6. PROVIDE AND INSTALL WITH FACTORY WIRED ELECTRICAL DISCONNECT.

NOTES:
SO = SHUTOFF
SFP = SERIES FAN POWERED
PFP = PARALLEL FAN POWERED

HYDRONIC PUMP SCHEDULE

TAG	MFR.	MODEL	FRAME SIZE	IMPELLER DIA (IN)	FLUID	FLOW (GPM)	HEAD (FT)	NPSH R (FT)	MOTOR (HP)	MOTOR (BHP)	EFF (+/- 5%)	PLEV (%)	MOTOR RPM	DESIG N RPM	ELEC (V/PH)	SERVICE	REMARKS
P-1	BELL & GOSSETT	E-1510 3GB	284T	12.5	WATER	569	112	8.91	25.0	22.9	70.3	73.2	1800	1747	460/3	HEAT PUMP LOOP	1, 2, 3, 4, 5
P-2	BELL & GOSSETT	E-1510 3GB	284T	12.5	WATER	535	110	8.06	25.0	20.6	71.9	73.3	1800	1693	460/3	HEAT PUMP LOOP	1, 2, 3, 4, 5
P-3	BELL & GOSSETT	E-1510 3GB	284T	12.5	WATER	522	105	7.68	25.0	19.2	71.8	73.3	1800	1653	460/3	HEAT PUMP LOOP	1, 2, 3, 4, 5
P-4	BELL & GOSSETT	E-1510 3GB	284T	12.5	WATER	494	110	7.33	25.0	18.6	73.5	73.2	1800	1644	460/3	HEAT PUMP LOOP	1, 2, 3, 4, 5
P-5	BELL & GOSSETT	E-1510 4GC	324T	12.375	WATER	650	150	9.2	40.0	30.7	78.1	-	1800	1764	460/3	PHASE 1 ADDITION	1, 2, 3, 4, 5, 6
P-6	BELL & GOSSETT	E-1510 4GC	324T	12.375	WATER	650	150	9.2	40.0	30.7	78.1	-	1800	1764	460/3	PHASE 1 ADDITION	1, 2, 3, 4, 5, 6
P-7	BELL & GOSSETT	E-1510 4GC	324T	12.375	WATER	650	150	9.2	40.0	30.7	78.1	-	1800	1764	460/3	PHASE 1 ADDITION	1, 2, 3, 4, 5
CTP-1	BELL & GOSSETT	VSX-VSCS 8x10x17.5B	404T/TS	16.5	WATER	2400	75	6.4	60.0	53.8	84.5	81.1	1200	1145	460/3	COOLING TOWER 1	1, 2, 3, 4, 5
CTP-2	BELL & GOSSETT	VSX-VSCS 8x10x17.5B	404T/TS	16.5	WATER	2400	75	6.4	60.0	53.8	84.5	81.1	1200	1145	460/3	COOLING TOWER 2	1, 2, 3, 4, 5
P-8	BELL & GOSSETT	E-1510 2.5BB	215T	9.5	30% PG	260	70	6.73	10.0	6.05	77.1	-	1800	1605	460/3	DOAS-1	1, 2, 3, 4, 5, 7
P-9	BELL & GOSSETT	E-1510 2.5BB	215T	9.5	30% PG	260	70	6.73	10.0	6.05	77.1	-	1800	1605	460/3	DOAS-1	1, 2, 3, 4, 5, 7
P-10	BELL & GOSSETT	E-1510 2BD	184T	8.5	30% PG	145	70	7.01	5.0	3.6	72.6	-	1800	1745	460/3	DOAS-1	1, 2, 3, 4, 5, 8
P-11	BELL & GOSSETT	E-1510 2BD	184T	8.5	30% PG	145	70	7.01	5.0	3.6	72.6	-	1800	1745	460/3	DOAS-1	1, 2, 3, 4, 5, 8
PHP-1	BELL & GOSSETT	ECOARC XL 45-370	-	-	WATER	200	35	-	3.0	-	-	-	3600	3345	460/3	PH-1	-

REMARKS:
1. ALL MOTORS SHALL BE NON-OVERLOADING.
2. MOTOR SHALL BE MULTI-TAP 460/240/208 BALDOR SUPER-E WITH INTEGRAL SHAFT GROUNDING RING AND COMPLY WITH NEMA MG1 FOR VARIABLE SPEED OPERATION.
3. MOTOR SHALL HAVE CLASS F INSULATION FOR USE WITH VARIABLE SPEED DRIVE.
4. MFR SHALL ALIGN PUMP SHAFT IN THE FIELD, PRIOR TO START-UP. PROVIDE WRITTEN REPORT OF ALIGNMENT AND STARTUP.
5. PROVIDE WITH IMPELLER SIZE TRIED, OPTIMAL BE USED TO BALANCE FLOW TO DESIGN POINT.
6. LEAD-LAG, PARALLEL PUMPING OPERATION, COMBINED FLOW 1300 GPM AT 150 FEET HEAD.
7. LEAD-LAG, PARALLEL PUMPING OPERATION, COMBINED FLOW 520 GPM AT 70 FEET HEAD.
8. LEAD-LAG, PARALLEL PUMPING OPERATION, COMBINED FLOW 290 GPM AT 70 FEET HEAD.

EXPANSION TANK SCHEDULE

TAG	MFR.	MODEL	SERVICE	APPROX SYS VOL (GAL)	PRE-CHARGE (PSIG)	CALC. ACCEPT FACTOR	TANK VOL. (GAL)	ACCEPT. VOL (GAL)	DIA. (IN)	HEIGHT (IN)	CONN. SIZE (IN)	TANK FULL WT (LBS)	REMARKS
ET-1.1	BELL & GOSSETT	B-1400	HEAT PUMP	30,000	30	0.618	370	229	36	98	1 1/2	3958	1, 2, 3
ET-1.2	BELL & GOSSETT	B-1400	HEAT PUMP	-	30	0.618	370	229	36	98	1 1/2	3958	1, 2, 3
ET-2	BELL & GOSSETT	B-800	DOAS-1	6,000	15	0.618	211	130	30	82	1 1/2	2306	1, 2, 3
ET-3	BELL & GOSSETT	B-600	DOAS-1	3,000	15	0.618	158	98	30	64	1 1/2	1814	1, 2, 3

REMARKS:
1. PROVIDE AND INSTALL WITH LINE SIZE T&P RELIEF VALVE ON INLET.
2. ALL TANKS SHALL BE ASME STAMPED.
3. CONTRACTOR MUST VERIFY THE SYSTEM STATIC WATER PRESSURE PRIOR TO INSTALLING TANK AND ADJUST PRE-CHARGE AS REQUIRED.

GENERAL MECHANICAL EQUIPMENT SCHEDULE

TAG:	**HS-1.1, HS-1.2, HS-2.1, HS-2.2**
TYPE:	**HYDROCYCLONE SEPARATOR**
MFR:	**PUROFLUX**
MODEL:	**PF-61-060**
PERFORMANCE:	620 GPM 3.0 PSI MINIMUM FLOW, 1245 GPM 12 PSI MAXIMUM FLOW, 6" FLNG SUPPLY AND RETURN CONNECTION, 1-1/2" FPT PURGE CONNECTION, 32 GALLON VOLUMN, 650 LBS OPERATING WEIGHT, MINIMUM 95% SINGLE PASS REMOVAL EFFICIENCY RATE.
REMARKS:	PROVIDE AND INSTALL WITH PACKAGED AUTOMATIC ADJUSTABLE PURGE CONTROLS IN NEMA 4X ENCLOSURE. PROVIDE AND INSTALL WITH PACKAGED AUTOMATIC CONTROL VALVE.

LOUVER SCHEDULE

TAG	MFR.	MODEL	FACE SIZE (IN)	FREE AREA (SF)	AIRFLOW (CFM)	FACE VELOCITY (FPM)	THICKNESS (IN)	FINISH	SERVICE	REMARKS
L-1	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-2	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-3	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-4	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-5	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-6	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-7	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-8	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-9	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-10	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-11	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-12	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-13	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-14	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-15	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-16	GREENHECK	ESD-603	78x90	27.64	20450	740	6	2.0 mil 70% KYNAR	INTAKE	1, 2, 3
L-17	GREENHECK	SED-501	48x96	19.1	10500	548	5	2.0 mil 70% KYNAR	RETURN	2, 3
L-18	GREENHECK	SED-501	48x96	19.1	10500	548	5	2.0 mil 70% KYNAR	RETURN	2, 3
L-19	GREENHECK	SED-501	48x96	19.1	10500	548	5	2.0 mil 70% KYNAR	RETURN	2, 3
L-20	GREENHECK	SED-501	48x96	19.1	10500	548	5	2.0 mil 70% KYNAR	RETURN	2, 3
L-21	GREENHECK	ESD-403	72x24	5.7	2300	406	4	2.0 mil 70% KYNAR	EXHAUST	1, 2, 3

REMARKS:
1. PROVIDE AND INSTALL WITH ALUMINUM BIRD SCREEN.
2. PROVIDE AND INSTALL WITH CHANNEL FRAME.
3. COLOR SELECTION BY ARCHITECT.

NOTE: PRIOR TO ORDERING ANY LOUVER, CONTRACTOR SHALL FIELD VERIFY ANY EXISTING OPENINGS THAT LOUVERS MUST BE INSTALLED IN.

VARIABLE SPEED DRIVE SCHEDULE

TAG	MFR.	MODEL	EQUIPMENT SERVED	MOTOR SIZE (HP)	ELEC (V/PH)	MAX HARMONIC...	BYPASS	ENCLOSURE	REMARKS
VSD-CT-1.1	ABB	ACH580	CT-1 FAN	60.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-CT-1.2	ABB	ACH580	CT-1 FAN	60.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-CT-2.1	ABB	ACH580	CT-2 FAN	60.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-CT-2.2	ABB	ACH580	CT-2 FAN	60.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-P-1	ABB	ACH580	P-1	25.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-P-2	ABB	ACH580	P-2	25.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-P-3	ABB	ACH580	P-3	25.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-P-4	ABB	ACH580	P-4	25.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-P-5	ABB	ACH580	P-5	40.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-P-6	ABB	ACH580	P-6	40.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-P-7	ABB	ACH580	P-7	40.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-P-8	ABB	ACH580	P-8	10.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-P-9	ABB	ACH580	P-9	10.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-P-10	ABB	ACH580	P-10	5.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-P-11	ABB	ACH580	P-11	5.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-CTP-1	ABB	ACH580	CTP-1	60.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5
VSD-CTP-2	ABB	ACH580	CTP-2	60.0	460/3	5%	NONE	NEMA 1	1, 2, 3, 4, 5

REMARKS:
1. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS AND INFORMATION.
2. COORDINATE EXACT MOTOR DATA WITH EQUIPMENT BEING SERVED BY THIS DRIVE.
3. PROVIDE WITH MANUAL LOCKABLE DISCONNECT SWITCH INTEGRAL TO DRIVE.
4. PROVIDE WITH BACNET INTERFACE FOR FULL INTEGRATION INTO BMS.
5. STARTUP AND OWNER TRAINING SHALL BE PROVIDED BY THE FACTORY AUTHORIZED REPRESENTATIVE TO ENABLE FULL FACTORY WARRANTY.

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CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

ANDREW STEPHEN LUDERBACK
REGISTERED
PE11700017
STATE OF
INDIANA
PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
2	9/6/2023	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: ASL

MECHANICAL SCHEDULES

M504

PRIMARY JOB # 22417

PLOT DATE/TIME: 9/6/2023 2:41:51 PM

THIS MONOCHROME PRINT SHOULD DISPLAY GRAY SHADES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

0 16 32 48 SCALE: 1/16" = 1'-0"
0 8 16 24 32 SCALE: 3/32" = 1'-0"
0 8 16 24 SCALE: 1/8" = 1'-0"
0 4 8 12 SCALE: 1/4" = 1'-0"
0 2 4 6 SCALE: 1/2" = 1'-0"
0 2 4 SCALE: 3/4" = 1'-0"
0 1 2 3 SCALE: 1" = 1'-0"

GENERAL ELECTRICAL DEMOLITION NOTES

1. REMOVE ALL EXPOSED RACEWAY AND WIRE THAT ARE NO LONGER TO BE USED.
2. BLANK OFF OR REMOVE ALL ABANDONED JUNCTION AND OUTLET BOXES IN WALLS, FLOORS, AND CEILINGS THAT ARE TO REMAIN.
3. REMOVE ALL ELECTRICAL OUTLETS, DEVICES, AND RACEWAYS FROM WALL THAT ARE TO BE REMOVED.
4. REMOVE ALL FLOOR MOUNTED RACEWAYS.
5. ALL EXISTING EQUIPMENT THAT IS TO REMAIN IS INTENDED TO BE OPERATIONAL AT THE COMPLETION OF THE PROJECT. RECIRCUIT WHERE NECESSARY TO INSURE THIS CONTINUED OPERATION.
6. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT THAT IS TO BE REMOVED.
7. ALL EXISTING RECEPTACLES AND LIGHT SWITCHES THAT ARE TO REMAIN WITHIN A REMODELED AREA SHALL BE REPLACED WITH NEW DEVICES AND COVER PLATES.
8. THE EXISTING EQUIPMENT SHOWN ON THE DRAWINGS IS BELIEVED TO BE A REASONABLE INDICATION OF THE EXISTING LAYOUT. EXACT QUANTITY AND LOCATION SHALL BE FIELD VERIFIED BY CONTRACTOR.

GENERAL ELECTRICAL NOTES

1. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS.
2. DIMENSIONS SHOWN ON OUTLET BOXES AND DEVICES SHALL BE TO THE BOTTOM OF THE BOX.
3. CONDUIT SHOWN TO LIGHT FIXTURES IS SHOWN TO INDICATE SWITCHING AND DOES NOT REPRESENT THE QUANTITY OR EXACT LOCATION OF WIRING AND/OR CONDUIT.
4. COORDINATE LOCATION OF LIGHT FIXTURES IN AREAS OF MECHANICAL DUCTWORK AND PIPING WITH MECHANICAL CONTRACTOR. RELOCATE LIGHT FIXTURES, WIRING, AND CONDUIT IF NECESSARY AND AS DIRECTED BY THE ARCHITECT/ENGINEER.
5. VERIFY LOCATION OF ALL BACKBOXES IN LABORATORY EQUIPMENT AND BUILT-IN FURNITURE WITH EQUIPMENT SUPPLIER AND INSTALLER PRIOR TO ROUGH-IN.
6. PROVIDE AND INSTALL PLASTER RINGS, DRYWALL FRAMING KITS, OR SURFACE MOUNT KITS FOR LIGHT FIXTURES WHERE REQUIRED BY CEILING CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS.
7. VERIFY HEIGHT AND LOCATION OF RECEPTACLES BEHIND ELECTRIC WATER COOLERS WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
8. THE ELECTRICAL LAYOUT DRAWINGS ARE DIAGRAMMATIC IN NATURE. REFER TO ENTIRE CONSTRUCTION DRAWING SET AND SPECIFICATIONS FOR GUIDANCE ON DIMENSIONS, CEILING HEIGHTS, DOOR SWINGS, ROOM FINISHES, STRUCTURAL DETAILS, LOCATIONS OF PIPING, DUCTWORK, STRUCTURAL MEMBERS, AND OTHER OBSTRUCTIONS. INSTALL THE ELECTRICAL SYSTEMS SO AS NOT TO INTERFERE WITH THE INSTALLATION OR FUNCTION OF ANY WORK BY ANOTHER DISCIPLINE.
9. ALL DIMENSIONS OF EXISTING DEVICES AND EQUIPMENT ARE APPROXIMATE. CONTRACTOR SHALL MAKE ALL NECESSARY FIELD MEASUREMENTS OF EXISTING STRUCTURES AND EQUIPMENT TO VERIFY DIMENSIONS SHOWN ON THE PLANS. ALL ADDED COSTS TO MODIFY NEW CONSTRUCTION DUE TO A LACK OF COORDINATION AND FIELD MEASUREMENTS SHALL BE BORNE BY THE CONTRACTOR.
10. PROVIDE ADDITIONAL SUPPORT FOR SWITCHES, STARTERS, RACEWAY, GROUNDING SYSTEMS, AND OTHER ELECTRICAL EQUIPMENT WHEREVER THE BUILDING CONSTRUCTION IS NOT SUITABLE FOR DIRECT MOUNTING.
11. ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, AND CEILINGS SHALL BE SEALED WITH FIRE STOPPING MATERIAL EQUAL TO THOMAS AND BETTS U.L. LISTED FLAME-SAFE FIRE STOP SYSTEM.
12. COORDINATE ALL EQUIPMENT WIRING WITH MFR'S REQUIREMENTS. CHANGES REQUIRED FROM THE USE OF PRODUCTS THAT ARE OTHER THAN THE BASIS OF DESIGN SHALL BE BORNE BY THE CONTRACTOR.
13. SIZING OF BRANCH CIRCUITS AND FEEDERS FOR EQUIPMENT IS BASED ON DESIGN LOADS. PRIOR TO INSTALLATION, CONFIRM EXACT LOADS WITH RELEASED SHOP DRAWINGS. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO ROUGH-IN.
14. BRANCH CIRCUITS SHALL BE WIRED WITH 3/4"C, 2-#12, 1-#12G, UNLESS NOTED OTHERWISE.NEUTRAL CONDUCTORS SHALL NOT BE SHARED ON BRANCH CIRCUITS.
15. WHERE CONDUIT AND WIRING HAS NOT BEEN SHOWN ON THE DRAWINGS, THE ARRANGEMENT AND ROUTING OF LIGHTING AND RECEPTACLE BRANCH CIRCUITS SHALL BE AT THE DISCRETION OF CONTRACTOR IN ACCORDANCE WITH GENERALLY ACCEPTED GOOD PRACTICE, N.E.C. REQUIREMENTS, AND THE FOLLOWING LIMITATIONS:
16. EXCEPT WHERE NOTED OTHERWISE, SIZE BRANCH CIRCUIT CONDUCTORS WITHIN THE FOLLOWING MAXIMUMLENGTH LIMITS: (MEASURE TO THE CENTER OF THE LOAD FOR LIGHTING AND TO THE MOST REMOTE OUTLET FOR RECEPTACLE CIRCUITS.)

CIRCUIT BREAKER	CIRCUIT LENGTH	CONDUCTOR SIZE
120V, 20 A	100 FEET	#12
	150 FEET	#10
	200 FEET	#8

17. PROVIDE #12 AWG MINIMUM FOR BRANCH CIRCUITS. PROVIDE ADDITIONAL DERATING PER N.E.C.TABLES 310-16 THROUGH 310-31 FOR ALL HOME RUNS WITH MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A RACEWAY.
18. CONDUITS SHALL BE LIMITED TO A MAXIMUM OF NINE BRANCH CIRCUIT CONDUCTORS OF WHICH A MAXIMUM OF FOUR PHASE CONDUCTORS SHALL BE PERMITTED. GROUNDING CONDUCTORS SHALL NOT BE INCLUDED IN THE COUNT.
19. FOR EQUIPMENT THAT IS TO BE FURNISHED BY OTHERS AND WIRED BY THIS CONTRACTOR, REVIEW ALL SPECIFICATION SECTIONS, EQUIPMENT SCHEDULES, AND/OR DRAWING DETAILS THAT PERTAIN TO THIS EQUIPMENT AND INCLUDE ALL WIRING AND DEVICES REFERENCED. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF THIS EQUIPMENT WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN/ INSTALLATION.
20. CONDUIT, BOXES, AND WIRING DEVICES IN ALL AREAS SHALL BE INSTALLED IN CONCEALED SPACES OR RECESSED IN WALLS UNLESS IN MECHANICAL/ELECTRICAL EQUIPMENT ROOMS OR AS DIRECTED BY THE ARCHITECT/ENGINEER.
21. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ROUGH-IN OF TEMPERATURE CONTROL DEVICES. CONTRACTOR SHALL PROVIDE AND INSTALL BACK BOXES AND CONDUIT WITH BUSHING TO NEAREST ACCESSIBLE CEILING. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS. COORDINATE WITH MECHANICAL CONTRACTOR.
22. ELECTRIC WATER COOLERS (EWC DUPLEX RECEPTACLE ON SYMBOL SCHEDULE) SHALL BE PROTECTED BY GFCI PROTECTED CIRCUIT BREAKER IN PANEL BOARD UNLESS OTHERWISE NOTED. PROVIDE AT ALL LOCATIONS.
23. ALL HVAC CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR UNLESS NOTED OTHERWISE.

LINE TYPE SCHEDULE

- UNDERGROUND COMMUNICATION FEED LINE TYPE AND WEIGHT
- UNDERGROUND FEED LINE TYPE AND WEIGHT
- NEW POWER LINE WEIGHT
- NEW MECHANICAL EQUIPMENT LINE WEIGHT
- NEW LIGHTING LINE WEIGHT
- NEW LIGHTING DEVICE LINE WEIGHT
- NEW EMERGENCY AND FIRE DEVICE LINE WEIGHT
- NEW COMMUNICATION DEVICE LINE WEIGHT
- EXISTING TO REMAIN LINE WEIGHT
- EXISTING TO BE DEMOLISHED LINE TYPE AND WEIGHT

ELECTRICAL ABBREVIATIONS SCHEDULE

A OR AMP	AMPERE	EWH	ELECTRICAL WATER HEATER	MH	METAL HALIDE	UNO	UNLESS NOTED OTHERWISE
AC	ABOVE COUNTER	EXIST	EXISTING	MIN	MINIMUM	UPS	UNINTERRUPTIBLE POWER SUPPLY
A/E	ARCHITECT/ENGINEER	EXT	EXTERIOR	MISC	MISCELLANEOUS	V	VOLTAGE
AFF	ABOVE FINISHED FLOOR	F	FURNACE	MO	MASONRY OPENING	VAV	VARIABLE AIR VOLUME
AFG	ABOVE FINISHED GRADE	FA	FIRE ALARM	#	NUMBER	VERT	VERTICAL
AHU	AIR HANDLING UNIT	FAA	FIRE ALARM ANNUNCIATOR	NC	NORMALLY CLOSED	VFD OR VSD	VARIABLE FREQUENCY DRIVE
ALT	ALTERNATE	FACP	FIRE ALARM CONTROL PANEL	NIC	NOT IN CONTRACT	W	WATT
APPROX	APPROXIMATELY	FCU	FAN COIL UNIT	NL	NIGHT LIGHT	W/	WITH
AWG	AMERICAN WIRE GAUGE	FDN	FOUNDATION	NO	NORMALLY OPEN	WG	WIRE GUARD
BLDG	BUILDING	FIN	FINISH	NOM	NOMINAL	W/O	WITHOUT
BLKG	BLOCKING	FL	FLUORESCENT	NTS	NOT TO SCALE	WP	WATERPROOF
BTM	BOTTOM	FT	FOOT	OAC	OPENING ABOVE CEILING	XFRMR	TRANSFORMER
C	CONDUIT	FT-C	FOOT CANDLE	OC	ON CENTER	YD	YARD
CB	CIRCUIT BREAKER	G OR EGC	GROUND	OD	OUTSIDE DIAMETER	YR	YEAR
CL	CENTERLINE	GA	GAUGE	OP	OVERHEAD POWER LINES		
CFM	CUBIC FEET PER MINUTE	GFCI OR GFI	GROUND FAULT CIRCUIT INTERRUPTER	LB	POUND		
CUH	CABINET UNIT HEATER	GRC	GALVANIZED RIGID CONDUIT	PH	PHASE		
CLG	CEILING	GWH	GAS WATER HEATER	PC	PLUMBING CONTRACTOR		
CMU	CONCRETE MASONRY UNIT	HT	HEIGHT	PIV	POST INDICATING VALVE		
COL	COLUMN	HORIZ	HORIZONTAL	PVC	POLYVINYL CHLORIDE		
CONC	CONCRETE	HPS	HIGH PRESSURE SODIUM	R	RADIUS		
CONC BLK	CONCRETE BLOCK	HR	HOUR	REQ OR REQ'D	REQUIRED		
CONST	CONSTRUCTION	ID	INSIDE DIAMETER	RM	ROOM		
CONTR	CONTRACTOR	IG	ISOLATED GROUND	RO	ROUGH OPENING		
Cu	COPPER	IMC	INTERMEDIATE METAL CONDUIT	RTU	ROOF TOP UNIT		
DC	DIRECT CURRENT	INSUL	INSULATION	SCHED	SCHEDULE		
DIA	DIAMETER	INT	INTERIOR	SIM	SIMILAR		
DEG	DEGREE	INFO	INFORMATION	SPEC	SPECIFICATION		
DET	DETAIL	KCMIL	THOUSAND CIRCULAR MILLS	SQ	SQUARE		
DIM	DIMENSION	KVA	KILOVOLT-AMPERE	SS	STAINLESS STEEL		
DWG	DRAWING	KWH	KILOWATT-HOUR	STD	STANDARD		
EC	ELECTRICAL CONTRACTOR	KW	KILOWATT	STL	STEEL		
EF	EXHAUST FAN	LP	LIGHT POLE	SUSP	SUSPEND		
ELEC	ELECTRICAL	MAU	MAKE-UP AIR UNIT	TCP	TEMPERATURE CONTROL PANEL		
ELEV	ELEVATION	MAX	MAXIMUM	TS	TEACHER'S STATION		
EM	EMERGENCY	MC	MECHANICAL CONTRACTOR	TTB	TELEPHONE TERMINAL BOARD		
EMT	ELECTRICAL METALLIC TUBING	MCC	MOTOR CONTROL CENTER	TYP	TYPICAL		
EQ	EQUAL	MCM	THOUSAND CIRCULAR MILLS	UH	UNIT HEATER		
EWC	ELECTRIC WATER COOLER	MFR	MANUFACTURER	UL	UNDERWRITERS LABORATORIES		

ELECTRICAL SYMBOLS SCHEDULE

RECESSED PANELBOARD

SURFACE MOUNTED PANELBOARD

MOTOR CONTROL CENTER; "X" DENOTES EQUIPMENT TAG.

TRANSFORMER. "XX" INDICATES TRANSFORMER TAG. REFER TO SCHEDULES AND/OR RISER DIAGRAM

XXA FUSIBLE DISCONNECT: "XXA" DENOTES MAX. AMPACITY OF DISCONNECT

XXA NON-FUSIBLE DISCONNECT: "XXA" DENOTES MAX. AMPACITY OF DISCONNECT

XXA ENCLOSED CIRCUIT BREAKER, SIZE INDICATES BY "XXA" DENOTES FRAME SIZE.

MS-XX COMBINATION MOTOR STARTER AND FUSED DISCONNECT SWITCH: MS-XX DENOTES STARTER TAG. REFER TO MOTOR STARTER SCHEDULE.

VFD VARIABLE FREQUENCY/SPEED DRIVE. PROVIDED BY MECHANICAL CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR.

XXAF COOPER INDUSTRIES MOTOR GUARD WITH 15A TOGGLE SWITCH AND EDISON BASE FUSE HOLDER. "XXAF" DENOTES THE OVERCURRENT PROTECTION FOR FUSEHOLDER

RED MUSHROOM HEAD EMERGENCY POWER OFF BUTTON

T LINE VOLTAGE THERMOSTAT; THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR, ROUGH-IN AND INSTALLATION BY ELECTRICAL CONTRACTOR.

"ON/OFF" OR "UP/DOWN" PUSH BUTTON WITH PILOT LIGHT

M MOTOR CONNECTION.

J X JUNCTION BOX; "X" DENOTES LOCATION (CLG = CEILING MOUNTED)

EE ELECTRIC EYE REFLECTOR

GROUNDING ROD; REFER TO SPECIFICATION FOR MIN. SIZE REQUIREMENTS

HD ELECTRIC HAND DRYER; MOUNTED AT +44" AFF. REFER TO SPECIFICATIONS

120 V, 20 AMP SIMPLEX RECEPTACLE 16" A.F.F., UNO

120 V, 20 AMP SIMPLEX RECEPTACLE AT 44"A.F.F. OR 6" ABOVE CASEWORK SURFACE, UNO

X 120 V, 20 AMP DUPLEX RECEPTACLE 16" A.F.F., UNO. "X" DENOTES RECEPTACLE TYPE. SEE RECEPTACLE TYPES BELOW.

X 120 V, 20 AMP DUPLEX RECEPTACLE AT 44"A.F.F. OR 6" ABOVE CASEWORK SURFACE, UNO. "X" DENOTES RECEPTACLE TYPE. SEE RECEPTACLE TYPES BELOW.

120 V, 20 AMP DUPLEX RECEPTACLE WITH 2 PORT USB, 16" A.F.F., UNO

120 V, 20 AMP 4 PORT USB RECEPTACLE AND DUPLEX RECEPTACLE WITH 2 USB PORTS, 16" A.F.F., UNO

120 V, 20 AMP 4 PORT USB RECEPTACLE AND DUPLEX RECEPTACLE WITH 2 USB PORTS, AT 44"A.F.F. OR 6" ABOVE CASEWORK SURFACE, UNO

120 V, 20 AMP SPLIT WIRED DUPLEX RECEPTACLE, 16" A.F.F., UNO

X 120V, 20 AMP DOUBLE DUPLEX RECEPTACLE, 16" A.A.F., UNO. "X" DENOTES RECEPTACLE TYPE. SEE RECEPTACLE TYPES BELOW.

X 120 V, 20 AMP DOUBLE DUPLEX RECEPTACLE AT 44"A.F.F. OR 6" ABOVE CASEWORK SURFACE, UNO. "X" DENOTES RECEPTACLE TYPE. SEE RECEPTACLE TYPES BELOW.

X 120 V, 20 AMP HORIZONTAL DUPLEX RECEPTACLE AT 16" ABOVE WORK SURFACE."X" DENOTES RECEPTACLE TYPE. SEE RECEPTACLE TYPES BELOW.

X 120 V, 20 AMP HORIZONTAL DUPLEX RECEPTACLE AT 44" A.F.F. OR 6" ABOVE WORK SURFACE."X" DENOTES RECEPTACLE TYPE. SEE RECEPTACLE TYPES BELOW.

ELECTRIC CORD AND CABLE REEL WITH 25 FT CORD AND DOUBLE DUPLEX PORTABLE OUTLET BOX WITH STRAIN RELIEF

RECEPTACLE TYPES

"C"	RECEPTACLE MOUNTED IN CEILING
"CD"	CEILING CORD DROP (SO)
"E"	RECEPTACLE ON GENERATOR. COLOR OF DUPLEX TO BE RED.
"EWC"	RECEPTACLE FOR ELECTRIC WATER COOLER, MOUNT PER EWC MFR'S REQUIREMENTS
"G"	RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
"IG"	ISOLATED GROUND DUPLEX RECEPTACLE. COLOR OF DUPLEX RECEPTACLE TO BE ORANGE WITH ISOLATED GROUND SYMBOL
"M"	RECEPTACLE FOR MICROWAVE.
"R"	RECEPTACLE FOR REFRIGERATOR, 54" A.F.F.
"S"	RECEPTACLE WITH SURGE PROTECTION, UNO. COLOR OF DUPLEX TO BE BLUE.
"TP"	TAMPER PROOF RECEPTACLE
"WP"	RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER AND "WHILE-IN-USE" WEATHER RESISTANT COVERPLATE MOUNTED HORIZONTAL AT 24" A.F.F.,
"P"	PLUG LOAD CONTROLLABLE DUPLEX RECEPTACLE
XXA	SPECIAL PURPOSE RECEPTACLE; "XXA" DENOTES AMPACITY OF RECEPTACLE
	TWIST LOCK RECEPTACLE

FBX FLOOR BOX; "X" DENOTES FLOOR BOX ID TAG, REFER TO SCHEDULES.

PTX POKE THRU; "X" DENOTES FLOOR BOX ID TAG, REFER TO SCHEDULES.

R RELAY

HORIZONTALLY MOUNTED SURFACE RACEWAY

VERTICALLY MOUNTED SURFACE RACEWAY

MULTI-OUTLET ASSEMBLY WITH OUTLETS ON CENTER AS INDICATED ON THE DRAWING OR SPECIFICATIONS, MOUNTED 6" ABOVE COUNTER, UNO.

TCP TEMPERATURE CONTROL PANEL; PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR

NORMALLY CLOSED CONTACTOR

NORMALLY OPEN CONTACTOR

CIRCUIT HOME RUN TO PANELBOARD

PC PHOTO CELL; AS NOTED ON DRAWING OR SPECIFICATIONS

TC TIME CLOCK; AS NOTED ON DRAWINGS OR SPECIFICATIONS.

C X LIGHTING CONTACTOR, "X" DENOTES NUMBER OF CONTACTOR

SC X SITE LIGHTING CONTACTOR, "X" DENOTES NUMBER OF CONTACTOR

X SWITCH, "X" DENOTES SWITCH TYPE. SEE SWITCH TYPES BELOW.

X SWITCH, "X" DENOTES SWITCHING FOR LIGHTS.

SWITCH TYPES

"2"	120/277 V, DOUBLE POLE 20 AMP AC SWITCH
"3"	120/277 V, THREE WAY 20 AMP AC SWITCH
"4"	120/277 V, FOUR WAY 20 AMP AC SWITCH
"D"	120/277 V, 0-10V DIMMER SWITCH
"DSX"	LOW VOLTAGE PROGRAMMABLE SWITCH. "X" DENOTES SWITCH TYPE.
"K"	120/277 V, KEY OPERATED 20 AMP AC SWITCH
"LV"	LOW VOLTAGE TOGGLE SWITCH
"M"	120/277 V, MOMENTARY CONTACT 20 AMP AC SWITCH
"OX"	120/277 V, SWITCH MOUNTED OCCUPANCY SENSOR. "X" DENOTES SWITCH TYPE.
"P"	120/277 V, 20 AMP AC SWITCH WITH PILOT LIGHT
"S"	120/277 V, SPECIAL PURPOSE SWITCH
"T"	120/277 V, TIMER SWITCH
"TP"	120/277 V, MANUAL MOTOR STARTER SWITCH WITH PILOT LIGHT AND THERMAL OVERLOAD PROTECTION
"V"	120/277 V, LINE VOLTAGE DIMMER, 1500 WATT OR AS SPECIFIED.
"VX"	120/277 V, SWITCH MOUNTED VACANCY SENSOR. "X" DENOTES SWITCH TYPE.

CEILING FAN

XX / ab LIGHT FIXTURE, "XX" DENOTES FIXTURE TYPE, ab DENOTES SWITCHING

XX / ab EMERGENCY LIGHT FIXTURE. "XX" DENOTES FIXTURE TYPE, "A" DENOTES GENERATOR TRANSFER DEVICE OR EMERGENCY BATTERY INVERTER, ab DENOTES SWITCHING.

XXA EMERGENCY NIGHT LIGHT FIXTURE. "XX" DENOTES FIXTURE TYPE, "A" DENOTES EMERGENCY BATTERY INVERTER, FIXTURE IS UNSWITCHED

XX EXTERIOR WALL MOUNTED FIXTURE, "XX" DENOTES FIXTURE TYPE

XX EXTERIOR POLE MOUNTED FIXTURE, "XX" DENOTES FIXTURE TYPE

EM WALL MOUNTED EMERGENCY LIGHT FIXTURE

EM CEILING MOUNTED EMERGENCY LIGHT FIXTURE

EX UNIVERSAL CEILING MOUNT EXIT LIGHT WITH DIRECTIONAL ARROW

EX UNIVERSAL CEILING MOUNT EXIT LIGHT WITH DIRECTIONAL ARROWS

EX UNIVERSAL CEILING MOUNT EXIT LIGHT WITHOUT DIRECTIONAL ARROWS

EXM UNIVERSAL CEILING MOUNT EXIT LIGHT WITH EMERGENCY LIGHTING AND WITHOUT DIRECTIONAL ARROWS

EXM UNIVERSAL CEILING MOUNT EXIT LIGHT WITH EMERGENCY LIGHTING AND WITH DIRECTIONAL ARROW

EX UNIVERSAL WALL MOUNT EXIT LIGHT WITH DIRECTIONAL ARROW

EX UNIVERSAL WALL MOUNT EXIT LIGHT WITH DIRECTIONAL ARROWS

EX UNIVERSAL WALL MOUNT EXIT LIGHT WITHOUT DIRECTIONAL ARROWS

EXM UNIVERSAL WALL MOUNT EXIT LIGHT WITH EMERGENCY LIGHTING AND WITHOUT DIRECTIONAL ARROWS

EXM UNIVERSAL WALL MOUNT EXIT LIGHT WITH EMERGENCY LIGHTING AND WITH DIRECTIONAL ARROW

IR CEILING MOUNTED INFRARED RECEIVER

OX CEILING MOUNTED OCCUPANCY SENSOR. "X" DENOTES SENSOR TYPE.

OX WALL MOUNTED OCCUPANCY SENSOR. "X" DENOTES SENSOR TYPE, 9'-0" A.F.F., UNO

VX CEILING MOUNTED VACANCY SENSOR. "X" DENOTES SENSOR TYPE.

VX WALL MOUNTED VACANCY SENSOR. "X" DENOTES SENSOR TYPE, 9'-0" A.F.F., UNO

PP X POWER PACK FOR 24V OCCUPANCY / VACANCY SENSORS. "X" DENOTES SWITCH TYPE

EP X EMERGENCY POWER PACK FOR 24V OCCUPANCY / VACANCY SENSORS. "X" DENOTES SWITCH TYPE

RC X ROOM CONTROLLER. "X" DENOTES SWITCH TYPE

DRC X DIMMING ROOM CONTROLLER. "X" DENOTES SWITCH TYPE

X / Y CALL OUT; "X" DENOTES DETAIL NUMBER, "Y" DENOTES DRAWING SHEET NUMBER

F FIRE ALARM SPEAKER/VISUAL, CEILING MOUNT

F V FIRE ALARM VISUAL, CEILING MOUNT

F S FIRE ALARM SPEAKER, CEILING MOUNT

F FIRE ALARM CEILING MOUNTED SMOKE DETECTOR

F CO FIRE ALARM CEILING MOUNTED CARNON MONOXIDE SENSOR

F T FIRE ALARM CEILING MOUNTED HEAT DETECTOR

F FIRE ALARM DUCT MOUNTED SMOKE DETECTOR, VERIFY QUANTITY WITH DUCT CONFIGURATION

H FIRE ALARM MAGNETIC OR SENTRONIC DOOR HOLD OPEN

FIRE ALARM BELL

F FIRE ALARM SPEAKER/VISUAL, 80" A.F.F., UNO.

WG F V FIRE ALARM VISUAL, 80" A.F.F., UNO. "WG" DENOTES WIRE GUARD

WP F S FIRE ALARM SPEAKER, 80" A.F.F., UNO. "WP" DENOTES WEATHER PROOF.

F FIRE ALARM MANUAL PULL STATION, 44" A.F.F., UNO

F FIRE ALARM MANUAL PULL STATION AT 44" A.F.F. AND SPEAKER/VISUAL AT 80" A.F.F., UNO.

SD FIRE ALARM SMOKE DAMPER, MOUNTED DETECTOR NEAR DAMPER, WITH SET OF NORMALLY OPEN CONTACTS

T F FIRE SUPPRESSION TAMPER/ FLOW MONITOR MODULE

MM MONITOR MODULE

FACP FIRE ALARM CONTROL PANEL

FAA FIRE ALARM ANNUNCIATOR PANEL

RTS FIRE ALARM REMOTE TEST STATION

NAC FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL

PIV FIRE SUPPRESSION POST INDICATOR VALVE

CR FIRE ALARM CONTROL RELAY

B X FIRE ALARM BEAM DETECTOR. X DENOTES (S= SENDING UNIT, R= RECIEVER)

*** NOT ALL SYMBOLS USED ON THIS PROJECT**

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STATE OF
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PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
1	09-06-2023	Addendum #2

100% CONSTRUCTION DOCUMENTS

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: RHA

INFORMATION SHEET

E000

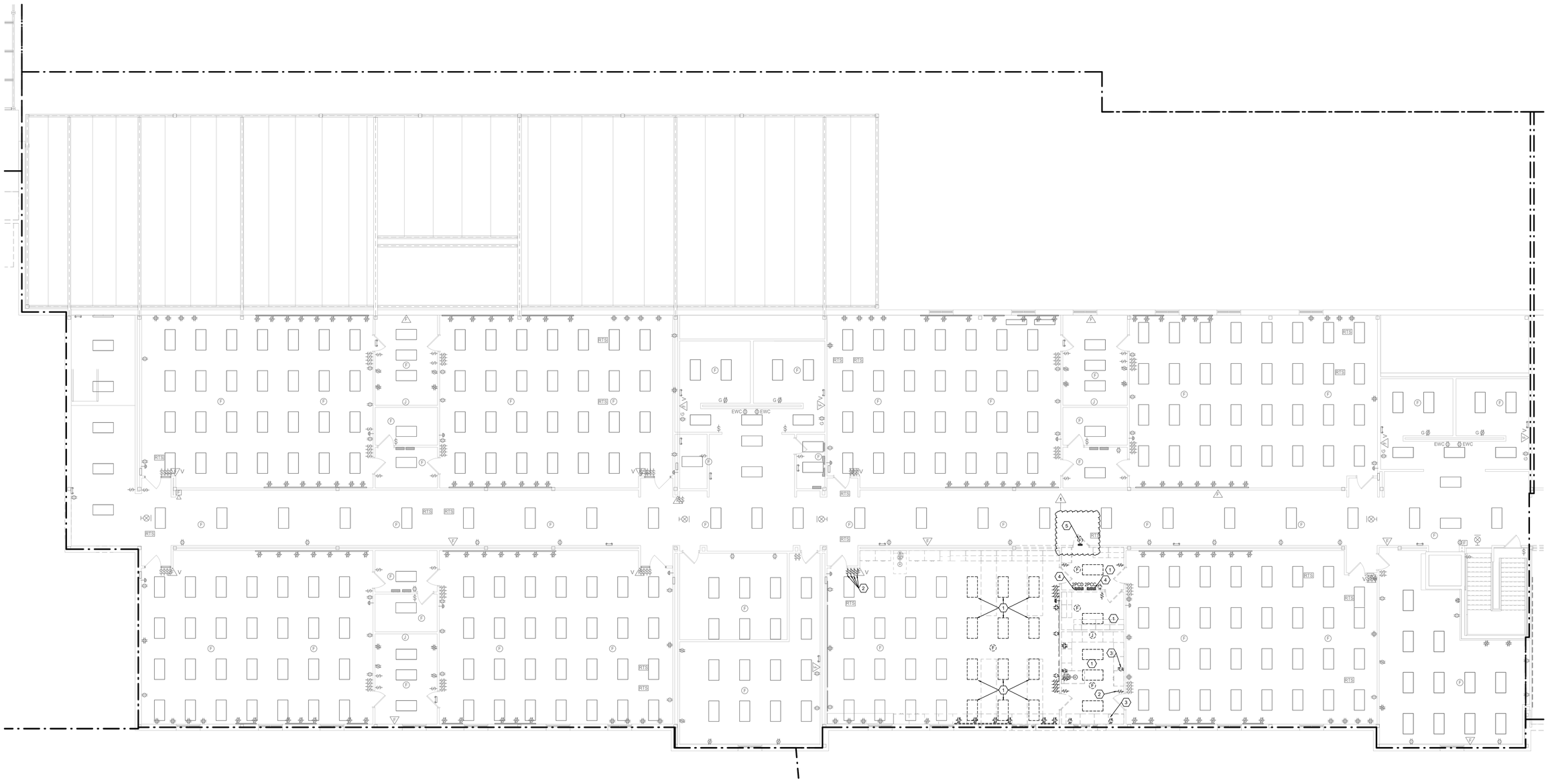
PRIMARY JOB # 22417

PLOT DATE/TIME: 9/6/2023 8:54:03 AM

THIS MONOCHROME PRINT SHOULD DISPLAY GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

PLAN NOTES

1. REMOVE LIGHT FIXTURE AND ASSOCIATED CONDUCTORS AND CONDUIT BACK TO SOURCE.
2. DISCONNECT LIGHT SWITCH AND REMOVE, DEVICE BOX, CONDUCTORS AND CONDUITS SHALL REMAIN TO BE UTILIZED FOR NEW LIGHTING CONTROL DEVICE.
3. REMOVE RECEPTACLE AND ASSOCIATED CONDUCTORS AND CONDUIT BACK TO SOURCE. DEVICE BOX AND CONDUIT CONCEALED IN WALL SHALL BE ABANDONED IN PLACE. PROVIDE AND INSTALL BLANK WALL PLATE ON DEVICE BOX.
4. DISCONNECT AND SALVAGE PANELBOARD. JUNCTION FEEDER, AND BRANCH CIRCUITS ABOVE ACCESSIBLE CEILING TO BE EXTEND TO NEW LOCATION.
5. DISCONNECT SMOKE DAMPER. REMOVE ASSOCIATED CONDUCTORS, CONDUIT, AND CABLING BACK TO SOURCE.



1 ELECTRICAL DEMOLITION PLAN - SECOND FLOOR - UNIT E
1/8" = 1'-0"

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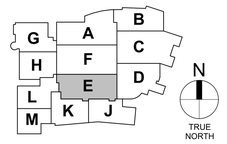
PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: RHA

ELECTRICAL DEMOLITION PLAN - SECOND FLOOR - UNIT E

E102E

PRIMARY JOB # 22417



PLOT DATE/TIME:8/9/2023 7:39:29 AM

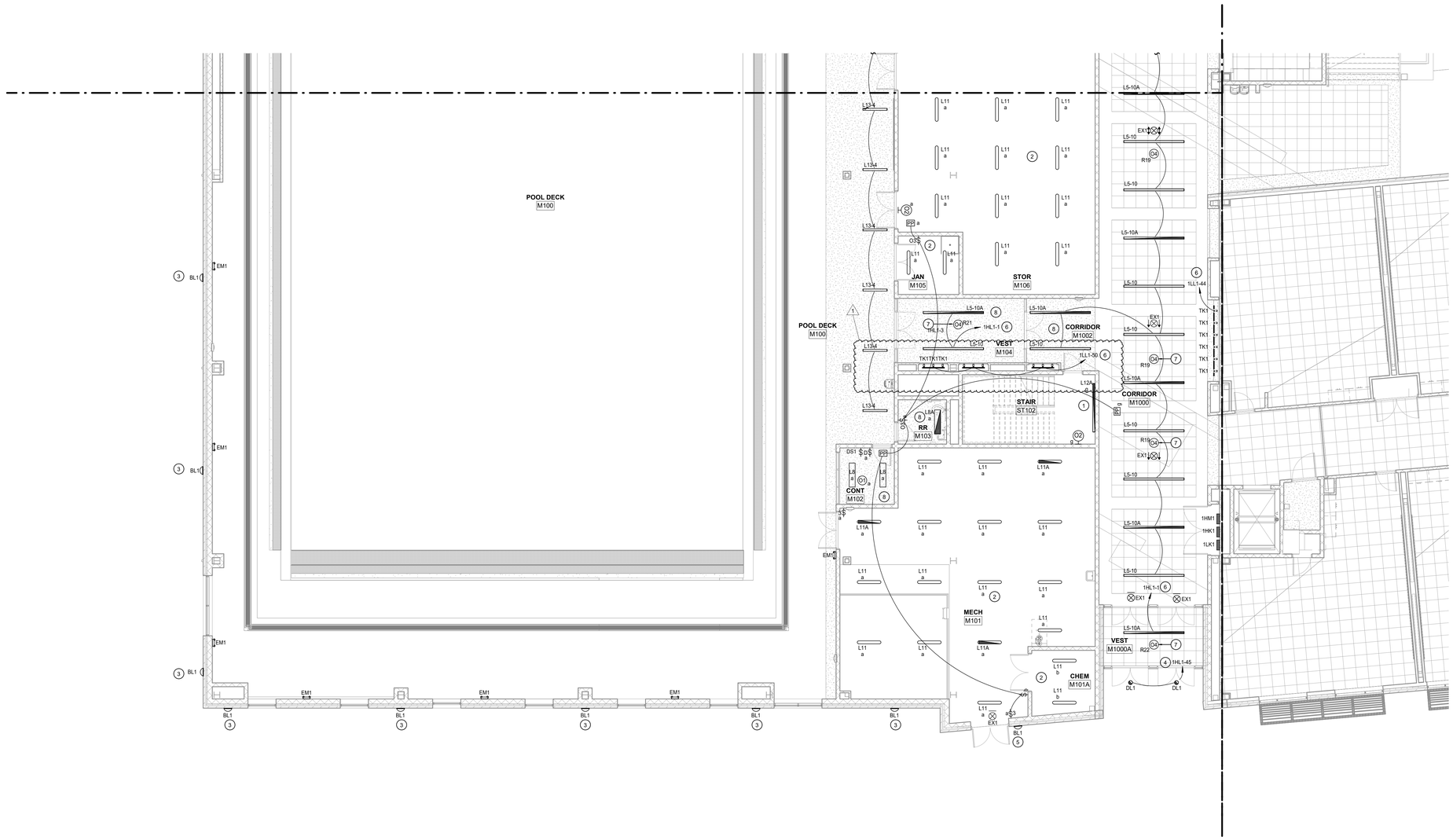
THIS MONOCHROME PRINT SHOULD DISPLAY GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

0 16 32 48 SCALE: 1/16" = 1'-0"
0 8 16 24 32 SCALE: 3/32" = 1'-0"
0 8 16 24 SCALE: 1/8" = 1'-0"
0 4 8 12 SCALE: 1/4" = 1'-0"
0 2 4 6 SCALE: 1/2" = 1'-0"
0 2 4 SCALE: 3/4" = 1'-0"
0 1 2 3 SCALE: 1" = 1'-0"

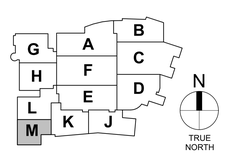
PLAN NOTES

1. MOUNT FIXTURE AT +10'-0" ABOVE FINISHED FLOOR TO BOTTOM OF FIXTURE.
2. MOUNT FIXTURE AT +9'-0" ABOVE FINISHED FLOOR TO BOTTOM OF FIXTURE.
3. CONNECT BUILDING MOUNTED LIGHT TO 1HL1-45 THRU CONTACTOR BC2 LOCATED IN ROOM L113. FIXTURE SHALL BE MOUNTED AT 12'-6" ABOVE FINISHED GRADE TO BOTTOM OF FIXTURE. REFER TO DETAIL #2 ON SHEET E504 FOR ADDITIONAL INFORMATION.
4. ROUTE BRANCH CIRCUIT THRU UL924 TRANSFER DEVICE TO CONTACTOR BC1 LOCATED IN ROOM L113. REFER TO DETAIL #2 ON SHEET E504 FOR ADDITIONAL INFORMATION.
5. CONNECT BUILDING MOUNTED LIGHT TO 1HL1-45 THRU UL924 TRANSFER DEVICE TO CONTACTOR BC1 LOCATED IN ROOM L113. FIXTURE SHALL BE MOUNTED AT 12'-6" ABOVE FINISHED GRADE TO BOTTOM OF FIXTURE. REFER TO DETAIL #2 ON SHEET E504 FOR ADDITIONAL INFORMATION.
6. ROUTE BRANCH CIRCUIT THROUGH RELAY PANEL 1RPL1 LOCATED IN RM. L113. REFER TO DETAIL #3 ON SHEET E504 FOR ADDITIONAL INFORMATION.
7. CONNECT SENSOR IN THIS SPACE TO RELAY NUMBER(S) AS INDICATED IN RELAY PANEL 1RPL1 LOCATED IN ROOM L113. REFER TO DETAIL #3 ON SHEET E504 FOR ADDITIONAL INFORMATION. TYPICAL OF OCCUPANCY SENSOR TYPE THIS SPACE UNLESS NOTED OTHERWISE.
8. PROVIDE AND INSTALL DRYWALL FRAME KIT TO RECESS FIXTURE IN CEILING. TYPICAL OF FIXTURES IN THIS SPACE UNLESS NOTED OTHERWISE.

WALL MOUNTED EMERGENCY LIGHTS, NIGHTLIGHTS, AND/OR EXIT SIGNS SHALL BE CONNECT TO THE UNSWITCHED SIDE OF BRANCH CIRCUIT THE FIXTURE IS SERVING. TYPICAL OF ALL UNLESS NOTED OTHERWISE.



1 *LIGHTING PLAN - FIRST FLOOR - UNIT M*
1/8" = 1'-0"



PLOT DATE/TIME:8/9/2023 7:39:49 AM

THIS MONOCHROME PRINT SHOULD DISPLAY GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

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REVISIONS:

#	Date	Desc.
1	09-06-2023	Addendum #2

100% CONSTRUCTION DOCUMENTS

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: RHA

LIGHTING PLAN - FIRST FLOOR - UNIT M

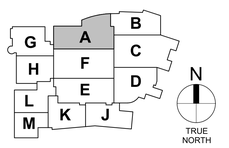
E301M

PRIMARY JOB # 22417

PLAN NOTES

1. INSTALL SALVAGED PULL STATION AND EXTEND EXISTING CABLING IN CONDUIT, AS REQUIRED, TO CONNECT PULL STATION.

1 *FIRE ALARM - FIRST FLOOR - UNIT A*
1/8" = 1'-0"



PLOT DATE/TIME:8/9/2023 7:39:49 AM
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	#	Date	Desc.
	1	09-08-2023	Addendum #2

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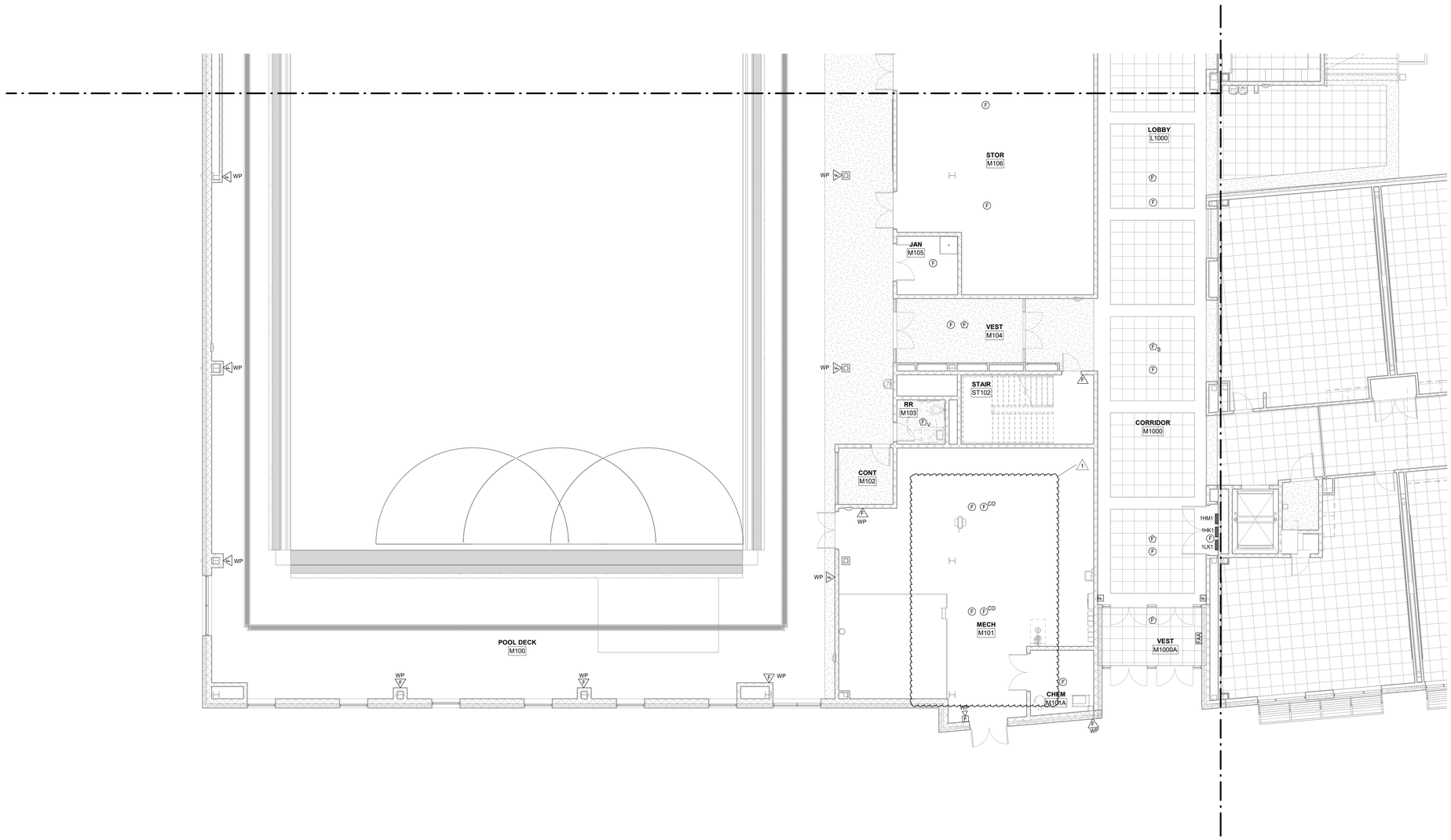
PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: RHA

FIRE ALARM PLAN - FIRST FLOOR - UNIT A

E401A

PRIMARY JOB # 22417



1 FIRE ALARM - FIRST FLOOR - UNIT M
1/8" = 1'-0"

SCALE: 1/16" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1" = 1'-0"

THIS MONOCHROME PRINT SHOULD DISPLAY GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

PLOT DATE/TIME: 8/4/2023 7:39:59 AM

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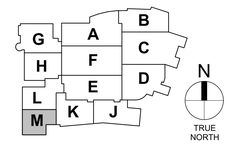
REVISIONS:

#	Date	Desc.
1	09-08-2023	Addendum #2

100% CONSTRUCTION DOCUMENTS

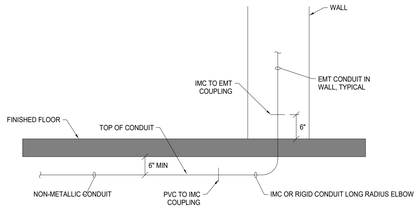
PROJECT:	#22130
DATE:	07-28-2023
DRAWN BY:	RHA

FIRE ALARM PLAN - FIRST FLOOR - UNIT M

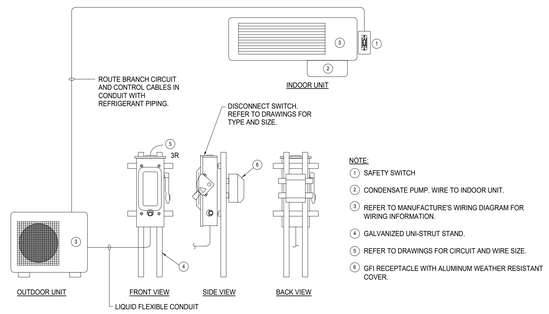


E401M

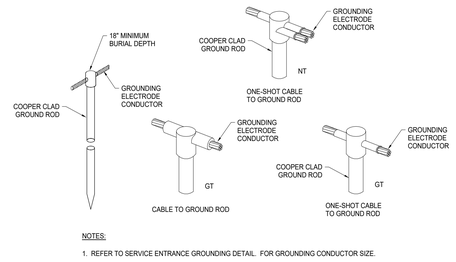
PRIMARY JOB # 22417



1 BENEATH SLAB CONDUIT TYPES
NOT TO SCALE



2 TYPICAL HVAC MINI SPLIT DETAIL
NOT TO SCALE



3 GROUND ROD CONNECTION DETAIL
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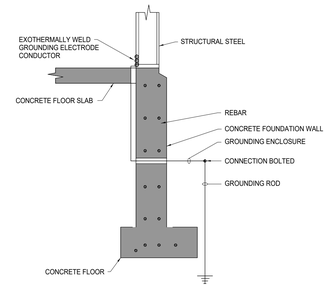

4 TYPICAL BUILDING GROUND DETAIL
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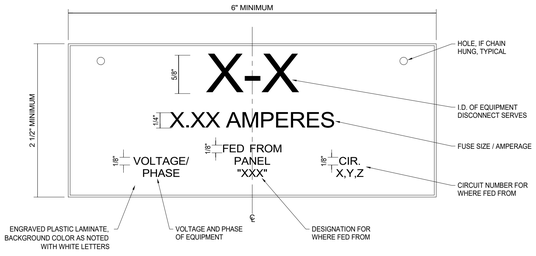

5 TYPICAL DISCONNECT TAG DETAIL
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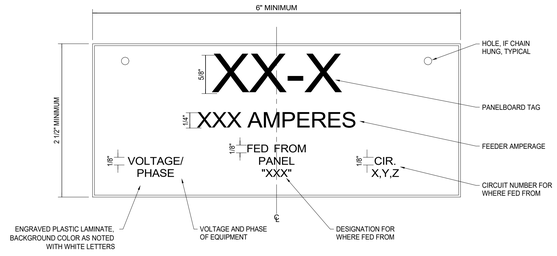

6 TYPICAL PANELBOARD TAG DETAIL
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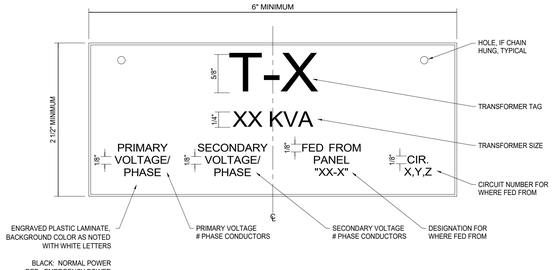

7 TYPICAL TRANSFORMER TAG DETAIL
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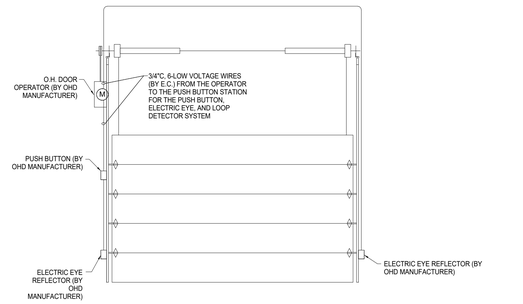

8 O.H. DOOR OPERATOR DETAIL
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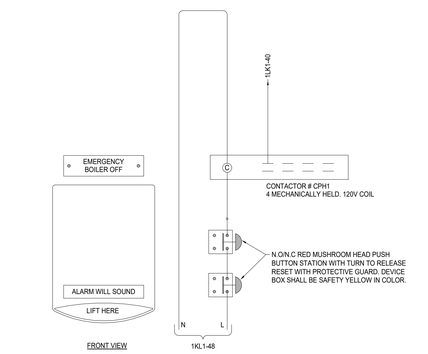

9 EMERGENCY POOL BOILER SHUT DOWN DIAGRAM
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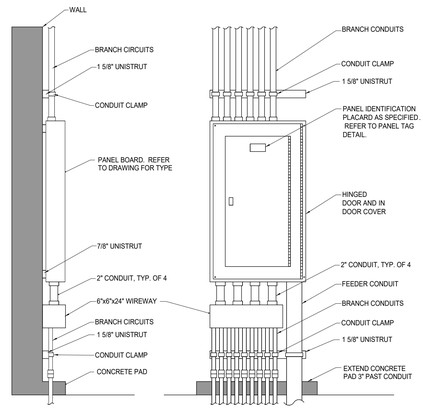

10 SURFACE MOUNTED PANEL BOARD
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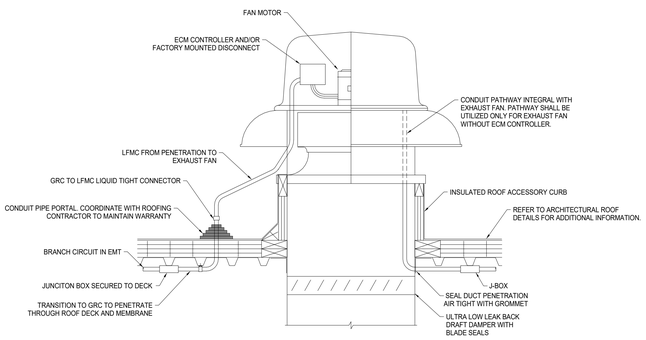

11 TYPICAL ROOF EXHAUST FAN DETAIL
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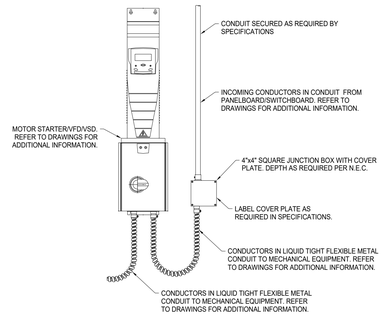

12 MOTOR CONTROLLER CONNECTION DETAIL
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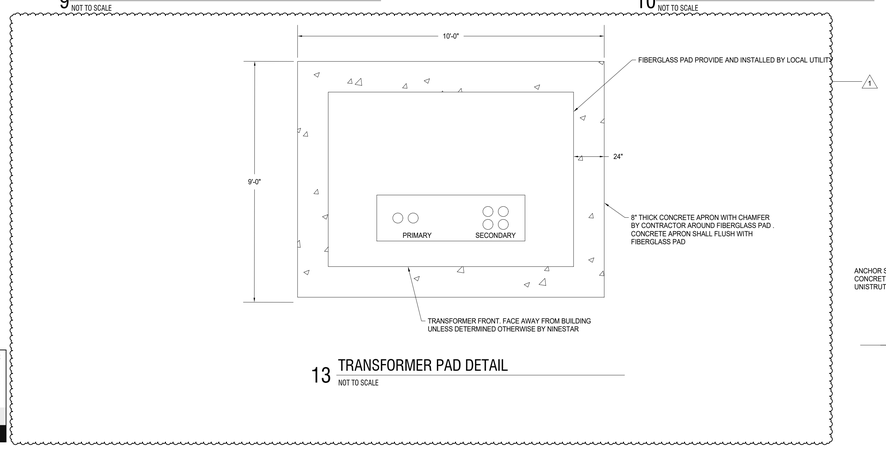
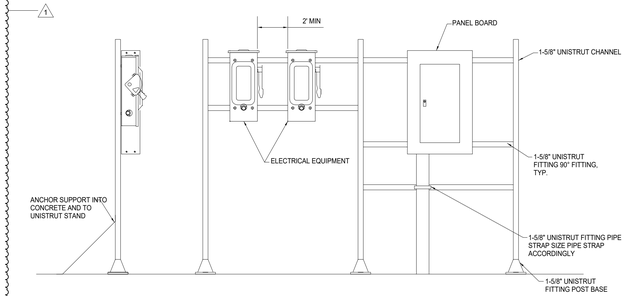
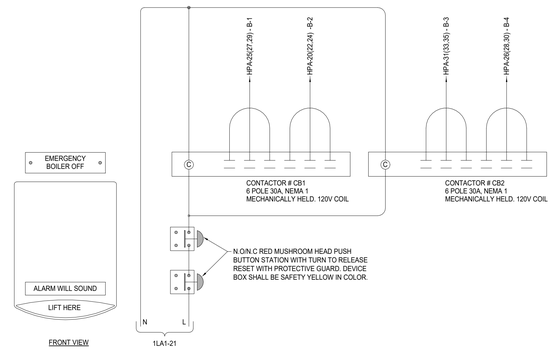


13 TRANSFORMER PAD DETAIL
NOT TO SCALE



14 UNISTRUT MOUNTING DETAIL
NOT TO SCALE



15 EMERGENCY BOILER SHUT DOWN DIAGRAM
NOT TO SCALE

PLOT DATE/TIME: 8/4/2023 7:45:55 AM
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427 S. COLLEGE AVE
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CLARK-PLEASANT COMMUNITY SCHOOLS CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN STREET, WHITELAND, IN 46184

ANDREW STEPHEN LOZOWICK
REGISTERED
PE11700017
STATE OF
INDIANA
PROFESSIONAL ENGINEER

REVISIONS:		
#	Date	Desc.
1	09-06-2023	Addendum #2

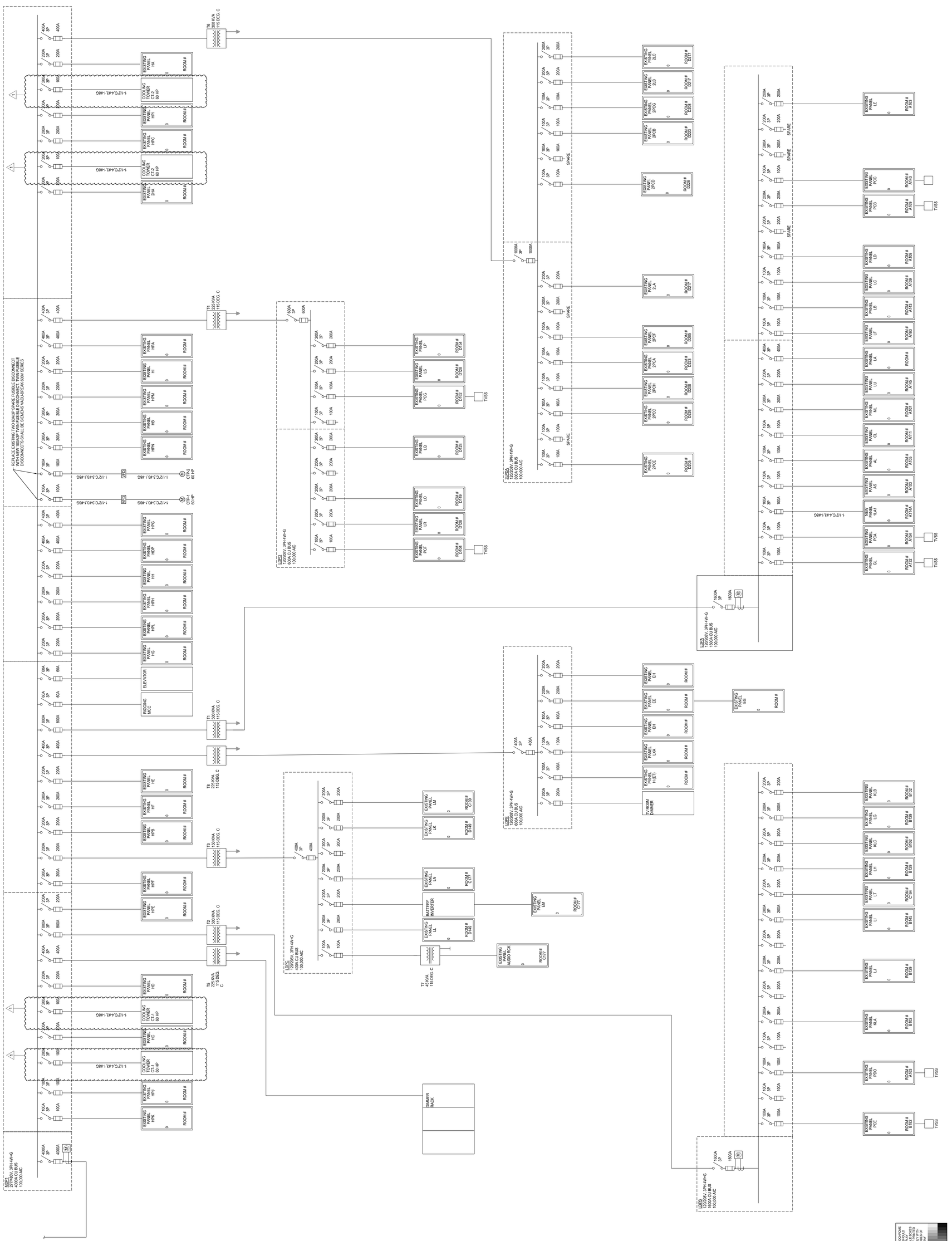
100% CONSTRUCTION DOCUMENTS

PROJECT:	#22130
DATE:	07-28-2023
DRAWN BY:	RHA

DETAILS

E501

PRIMARY JOB # 22417



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CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN STREET, WHITELAND, IN 46184

REGISTERED ARCHITECT ANDREW J. RODERBACK PE11700017 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS:			
#	Date	Desc.	
1	09-06-2023	Addendum #2	

100% CONSTRUCTION DOCUMENTS

PROJECT: #22130
DATE: 07-29-2023
DRAWN BY: RHA

SERVICE ENTRANCE AND DISTRIBUTION DIAGRAM MDP1

E601

PRIMARY JOB # 22417

PLOT DATE/TIME 8/6/2023 12:23:00 PM

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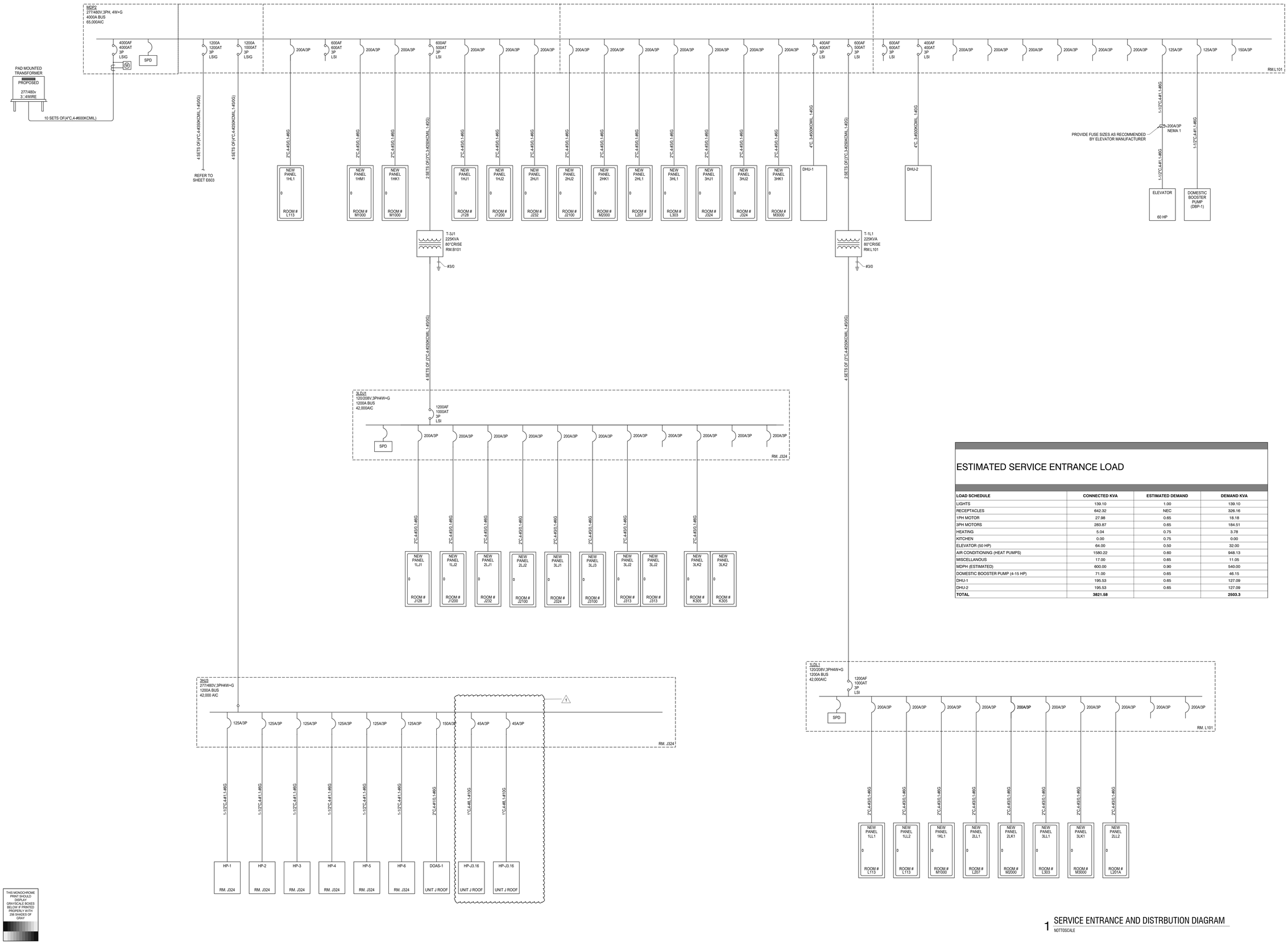

ESTIMATED SERVICE ENTRANCE LOAD

LOAD SCHEDULE	CONNECTED KVA	ESTIMATED DEMAND	DEMAND KVA
LIGHTS	139.10	1.00	139.10
RECEPTACLES	642.32	NEC	326.16
1PH MOTOR	27.98	0.65	18.18
3PH MOTORS	283.87	0.65	184.51
HEATING	5.04	0.75	3.78
KITCHEN	0.00	0.75	0.00
ELEVATOR (50 HP)	64.00	0.50	32.00
AIR CONDITIONING (HEAT PUMPS)	1580.22	0.60	948.13
MISCELLANOUS	17.00	0.65	11.05
MDPH (ESTIMATED)	600.00	0.90	540.00
DOMESTIC BOOSTER PUMP (4-15 HP)	71.00	0.65	46.15
DHU-1	195.53	0.65	127.09
DHU-2	195.53	0.65	127.09
TOTAL	**3821.58**		**2503.3**

1 SERVICE ENTRANCE AND DISTRBUTION DIAGRAM
NOTTOSCALE

THIS MONOCHROME PRINT SHOULD [VISIBLY] GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

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CLARK-PLEASANT COMMUNITY SCHOOLS CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN STREET, WHITELAND, IN 46184

ANDREW STEPHEN LOUDENBACK REGISTERED PE11700017 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
1	09-06-2023	Addendum #2

100% CONSTRUCTION DOCUMENTS

PROJECT:	#22130
DATE:	07-28-2023
DRAWN BY:	RHA

SERVICE ENTRANCE AND DISTRIBUTION DIAGRAM MDP2

E602

PRIMARY JOB # 22417

EQUIPMENT SCHEDULE

EQUIPMENT DESIGNATION	EQUIPMENT LOCATION	EQUIPMENT LOAD	VOLTAGE/PHASE	CIRCUIT INFORMATION		DISCONNECT					EQUIPMENT MOUNTED CONTROL PANEL	VARIABLE FREQUENCY/SPEED DRIVE (VFD/VSD)		SOLID STATE MOTOR STARTER							REMARKS
				CONDUIT AND CONDUCTOR SIZE	BRANCH CIRCUIT DESIGNATION	PROVIDED BY	FUSED OR NON-FUSED	NEMA ENCLOSURE	DISCONNECT SWITCH SIZE	FUSE RATING		PROVIDED BY	INSTALLED BY	PROVIDED BY	NEMA SIZE	CONTROL	TYPE	DISCONNECT SWITCH SIZE	FUSE RATING	NEMA ENCLOSURE	
HP-J2.10	RM. J214	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HJ2-26(38,30)	INT															
HP-J2.11	RM. J216	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HJ2-31(33,35)	INT															
HP-J2.12	RM. J209	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HJ2-32(34,36)	INT															
HP-J2.13	RM. J211	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HJ2-37(39,41)	INT															
HP-J2.14	RM. J211	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HJ2-38(40,42)	INT															
HP-J2.15	RM. J232	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HJ2-43(45,47)	INT															
HP-K2.01	RM. K01	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-1(3,5)	INT															
HP-K2.02	RM. K202	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-2(4,6)	INT															
HP-K2.03	RM. K204	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-7(9,11)	INT															
HP-K2.04	RM. K2000	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-8(10,12)	INT															
HP-K2.05	RM. K2000	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-13(15,17)	INT															
HP-K2.06	R,M. K203	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-14(16,18)	INT															
HP-K2.07	RM. KL205	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-19(21,23)	INT															
HP-K2.08	RM. K206	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-20(22,24)	INT															
HP-K2.09	RM. K208	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-25(27,29)	INT															
HP-K2.10	RM. K207	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-26(38,30)	INT															
HP-K2.11	RM. K209	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-31(33,35)	INT															
HP-K2.12	RM. K210	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-32(34,36)	INT															
HP-K2.13	RM. K212	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-37(39,41)	INT															
HP-K2.14	RM. K211	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-38(40,42)	INT															
HP-K2.15	RM. K2000	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-43(45,47)	INT															
HP-L2.01	RM. L2000	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HL1-1(3,5)	INT															
HP-L2.02	RM. L208	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HL1-2(4,6)	INT															
HP-L2.03	RM. L203	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HL1-7(9,11)	INT															
HP-L2.04	RM. L204	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HL1-8(10,12)	INT															
HP-L2.05	RM. L2000	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HL1-13(15,17)	INT															
HP-L2.06	RM. L201	10.9 MCA	208V/1PH	3/4"C,4-#12,1-#12G	2LL1-36(38)	INT															9
HP-M2.01	RM. M203	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	2HK1-49(51,53)	INT															
~~HP-M2.02~~	~~RM. M204~~	~~9.8 MCA~~	~~480V/3PH~~	~~3/4"C,4-#12,1-#12G~~	~~2HK1-14(45,49)~~	~~INT~~															
HP-J3.01	RM. J300	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-1(3,5)	INT															
HP-J3.02	RM. J301	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-2(4,6)	INT															
HP-J3.03	RM. J303	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-7(9,11)	INT															
HP-J3.04	RM. J302	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-8(10,12)	INT															
HP-J3.05	RM. J304	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-13(15,17)	INT															
HP-J3.06	RM. J3200	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-14(16,18)	INT															
HP-J3.07	RM. J322	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-19(21,23)	INT															
HP-J3.08	RM. ST301	10.9 MCA	208V/1PH	3/4"C,4-#12,1-#12G	3LJ3-50(52)	INT															9
HP-J3.09	RM. J305	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-25(27,29)	INT															
HP-J3.10	RM. J307	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-20(22,24)	INT															
HP-J3.11	RMN. J314	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-31(33,35)	INT															
HP-J3.12	RM. J316	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-26(28,30)	INT															
HP-J3.13	RM. J309	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-37(39,41)	INT															
HP-J3.14	RM. J313	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-32(34,36)	INT															
HP-J3.15	RM. J3200	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-43(45,47)	INT															
HP-J3.16	RM. J234	**24.5 MCA**	480V/3PH	SEE RISER DIAGRAM ON E602	SEE RISER	INT															
HP-J3.17	RM. J324	**24.5 MCA**	480V/3PH	SEE RISER DIAGRAM ON E602	SEE RISER	INT															
HP-J3.18	RM. J324	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-38(40,42)	INT															
HP-J3.19	RM. J315	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HJ2-49(51,53)	INT															
HP-J3.20	RM. J317	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HK1-38(40,42)	INT															
HP-K3.01	RM. K302	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HK1-1(3,5)	INT															
HP-K3.02	RM. K3000	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HK1-2(4,6)	INT															
HP-K3.03	RM. K3000	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HK1-7(9,11)	INT															
HP-K3.04	RM. K301	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HK1-8(10,12)	INT															
HP-K3.05	RM. K303	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HK1-13(15,17)	INT															
HP-K3.06	RM. K304	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HK1-14(16,18)	INT															
HP-K3.07	RM. K306	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HK1-19(21,23)	INT															
HP-K3.08	RM. K305	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HK1-20(22,24)	INT															
HP-K3.09	RM. K308	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HK1-25(27,29)	INT															
HP-K3.10	RM. K310	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HK1-26(38,30)	INT															
HP-K3.11	RM. K307	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HK1-31(33,35)	INT															
HP-K3.12	RM. RM. K3000	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HK1-32(34,36)	INT															
HP-L3.01	RM. L3000	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HL1-1(3,5)	INT															
HP-L3.02	RM. L303	10.9 MCA	208V/1PH	3/4"C,4-#12,1-#12G	3LL1-28(30)	INT															
HP-L3.03	RM. L301	11.6 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HL1-2(4,6)	INT															
HP-M3.01	RM. 302	11.6 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HL1-7(9,11)	INT															
HP-M3.02	RM. ST302	10.9 MCA	208V/1PH	3/4"C,4-#12,1-#12G	3LK1-32(34)	INT															
HP-M3.03	RM. M301	13.0 MCA	480V/3PH	3/4"C,4-#12,1-#12G	3HK1-37(39,41)	INT															
HS-1.1	RM. A114A	1.0 FLA	120V/1PH	3/4"C,2-#12,1-#12G	1LA1-5	EC	NF	1	20A												
HS-1.2	RM. A114A	1.0 FLA	120V/1PH	3/4"C,2-#12,1-#12G	1LA1-5	EC	NF	1	20A												
HS-2.1	RM. A114A	1.0 FLA	120V/1PH	3/4"C,2-#12,1-#12G	1LA1-7	EC	NF	1	20A												
HS-2.2	RM. A114A	1.0 FLA	120V/1PH	3/4"C,2-#12,1-#12G	1LA1-7	EC	NF	1	20A												
HWRP-1	RM. G100	3.0 HP	480V/3PH	3/4"C,3-#12,1-#12G	HPB-33(35,374)									EC	0	HOA	FVNR	30A	8A		7
HWRP-2	RM. G100	3.0 HP	480V/3PH	3/4"C,3-#12,1-#12G	HPB-33(35,37)									EC	0	HOA	FVNR	30A	8A		7
P-1	RM. A114	25 HP	480V/3PH	1-1/4"C,3-#4,1-#8G	HPA-(1,3,5)						MC	EC									5,6
P-2	RM. A114	25 HP	480V/3PH	1-1/4"C,3-#4,1-#8G	HPA-2(4,6)						MC	EC									5,6
P-3	RM. A114	25 HP	480V/3PH	1-1/4"C,3-#4,1-#8G	HPA-7(9,11)						MC	EC									5,6
P-4	RM. A114	25 HP	480V/3PH	1-1/4"C,3-#4,1-#8G	HPA-8(10,12)						MC	EC									5,6
P-5	RM. A114	40 HP	480V/3PH	1-1/4"C,3-#3,1-#8G	HPA-13(15,17)						MC	EC									1,6
P-6	RM. A114	40 HP	480V/3PH	1-1/4"C,3-#3,1-#8G	HPA-14(16,18)						MC	EC									1,6
P-7	RM. A114	40 HP	480V/3PH	1-1/4"C,3-#3,1-#8G	HPA-19(21,23)						MC	EC									1,6
P-8	RM. J324	10 HP	480V/3PH	3/4"C,3-#10,1-#10G	3HJ2-44(46,48)						MC	EC									6
P-9	RM. J324	10 HP	480V/3PH	3/4"C,3-#10,1-#10G	3HJ2-50(52,54)						MC	EC									6
P-10	RM. J324	5.0 HP	480V/3PH	3/4"C,3-#12,1-#12G	3HJ2-56(58,60)						MC	EC									6
P-11	RM. J324	5.0 HP	480V/3PH	3/4"C,3-#12,1-#12G	3HJ2-55(57,59)						MC	EC									6
PH-1	RM. M101	15 MCA	120V/1PH	3/4"C,2-#12,1-#12G	1LK1-49	EC	NF	1	20A												
PHP-1	RM. M101	3.0 HP	480V/3PH	3/4"C,3-#12,1-#12G	1HM1-20(22,24)	EC	NF	4X	30												
PP1	RM. M101	40 HP	480V/3PH	1-1/4"C,3-#3,1-#8G	1HM1-13(15,17)						PEC	EC									
PP2	RM. M101	40 HP	480V/3PH	1-1/4"C,3-#3,1-#8G	1HM1-14(16,18)						PEC	EC									
PP3	RM. M101	1.5 HP	480V/3PH	3/4"C,3-#12,1-#12G	1HM1-19(21,23)									EC	0	HOA	FVNR	30A	6A	4X	
TF-K1	RM. K111	1/4 HP	120V/1PH	3/4"C,2-#12,1-#12G	1KL1-46	INT															
TF-L1	RM. L1000	1/4 HP	120V/1PH	3/4"C,2-#12,1-#12G	1LL1-40	INT															
TF-J1	RM. J138	1/4 HP	120V/1PH	3/4"C,2-#12,1-#12G	LS-26	INT															10
~~TF-J2~~	~~RM. K3000~~	~~1/4 HP~~	~~120V/1PH~~	~~3/4"C,2-#12,1-#12G~~	~~2LJ1-19~~	~~INT~~															
TF-M1	**RM. K2001**	**1/4 HP**	**120V/1PH**	**3/4"C,2-#12,1-#12G**	**2LK1-58**	**INT**															
U1	RM. M101	12.0 KW	480V/3PH	3/4"C,3-#10,1-#10G	1HM1-8(10,12)							INT									
UH-M1	RM. 101A	2.0 KW	208V/1PH	3/4"C,2-#12,1-#12G	1LK1-49(51)	INT															
VAV-1	RM. L104	1.0 KW	120V/1PH	3/4"C,2-#12,1-#12G	1LL1-34	EC	NF	1	20A												
VAV-2	RM. M102	1.0 KW	120V/1PH	3/4"C,2-#12,1-#12G	1LK1-49	EC	NF	1	20A												

SCHEDULE ABBREVIATIONS

A	AMPACITY	HL	HIGH/LOW SWITCH	MCA	MIN CIRCUIT AMPACITY	W	WATTS
EC	ELECTRICAL CONTRACTOR	HLO	HIGH/LOW/OFF SWITCH	MHL	MOMENTARY HIGH/LOW SWITCH	XA/YP	X AMP CIRCUIT BREAKER, Y POLE
EX	EXISTING EQUIPMENT	HOA	HAND/OFF/AUTO	MHLO	MOMENTARY HIGH/LOW/OFF SWITCH		
F	FUSED	HP	HORSE POWER	NF	NON-FUSED		
FLA	FULL LOAD AMPS	INT	INTEGRAL WITH EQUIPMENT	PEC	POOL EQUIPMENT CONTRACTOR		
FVNR	FULL VOLTAGE NON-REVERSING	LOR	LOCAL/OFF REMOTE SWITCH	O	OWNER FURNISHED AND INSTALLED		
FVR	FULL VOLTAGE REVERSING	M	MOMENTARY ON/OFF SWITCH	RLA	RUNNING LOAD AMPS		
G	GENERAL CONTRACTOR	MC	MECHANICAL CONTRACTOR	S	ON/OFF SWITCH		

REMARKS

EQUIPMENT SCHEDULE

EQUIPMENT DESIGNATION	EQUIPMENT LOCATION	EQUIPMENT LOAD	VOLTAGE/PHASE	CIRCUIT INFORMATION		DISCONNECT					EQUIPMENT MOUNTED CONTROL PANEL	VARIABLE FREQUENCY/SPEED DRIVE (VFD/VSD)		SOLID STATE MOTOR STARTER							REMARKS
				CONDUIT AND CONDUCTOR SIZE	BRANCH CIRCUIT DESIGNATION	PROVIDED BY	FUSED OR NON-FUSED	NEMA ENCLOSURE	DISCONNECT SWITCH SIZE	FUSE RATING		PROVIDED BY	INSTALLED BY	PROVIDED BY	NEMA SIZE	CONTROL	TYPE	DISCONNECT SWITCH SIZE	FUSE RATING	NEMA ENCLOSURE	
B-1	RM. A114	22.0 FLA	480V/3PH	3/4"C, 3-#10,1-#10G	HPA-25(27,29)																2,8
B-2	RM. A114	22.0 FLA	480V/3PH	3/4"C, 3-#10,1-#10G	HPA-20(22,24)																2,8
B-3	RM. A114	22.0 FLA	480V/3PH	3/4"C, 3-#10,1-#10G	HPA-31(33,35)																2,8
B-4	RM. A114	22.0 FLA	480V/3PH	3/4"C, 3-#10,1-#10G	HPA-26(28,30)																2,8
CF1	RM. M101A	15 MCA	120V/1PH	3/4"C,2-#12,1-#12G	1LK1-42						INT										11
CF2	RM. M101A	15 MCA	120V/1PH	3/4"C,2-#10,1-#10G	1LK1-44						INT										11
CT-1	RM. A114A	(2) 60 HP	480V/3PH	SEE RISER DIAGRAM ON E601	MDP1						INT										3,6
CT-2	RM. A114A	(2) 60 HP	480V/3PH	SEE RISER DIAGRAM ON E601	MDP1						INT										3,6
CT-1	RM. A114A	(2) - 10KW	480V/3PH	3/4"C,3-#10,1-#10G	HPA-37(39,41)	EC	NF	1	30A												2
CT-2	RM. A114A	(2) - 10KW	480V/3PH	3/4"C,3-#10,1-#10G	HPA-32(34,26)	EC	NF	1	30A												2
CTP-1	RM. A114	60 HP	480V/3PH	SEE RISER DIAGRAM ON E601	MDP1																4,6
CTP-2	RM. A114	60 HP	480V/3PH	SEE RISER DIAGRAM ON E601	MDP1																4,6
DHU-1	UNIT L ROOF	247.8 MCA	480V/3PH	SEE RISER DIAGRAM ON E602	MDP2	INT															
DHU-2	UNIT L ROOF	247.8 MCA	480V/3PH	SEE RISER DIAGRAM ON E602	MDP2	INT															
DOAS-1	UNIT K ROOF	15.0 HP	480V/3PH	SEE RISER DIAGRAM ON E602	3HK3-7	INT															
DOAS-2	UNIT L ROOF	58.6 MCA	480V/3PH	1-1/4"C,3-#1,1-#8G	3HL1-2(4,6)	INT															
DBP-1	RM. 910	(4) - 15 HP	480V/3PH	SEE RISER DIAGRAM ON E602	MDP2						INT										
EF-A1	RM. A114	1.0 HP	120V/1PH	3/4"C,2-#10,1-#10G	1LA1-19	INT															
EF-J1	RM. J1300	3/4 HP	120V/1PH	3/4"C,2-#10,1-#10G	1LJ1-29	INT															
EF-J2	RM. J222	3/4 HP	120V/1PH	3/4"C,2-#10,1-#10G	2LJ1-24	INT															
EF-J3	RM. J324	3/4 HP	120V/1PH	3/4"C,2-#10,1-#10G	3LJ1-38	INT															
EF-J4	UNIT J ROOF	1/2 HP	120V/1PH	3/4"C,2-#12,1-#12G	3LJ2-72	INT															
EF-J5	UNIT J ROOF	1/2 HP	120V/1PH	3/4"C,2-#12,1-#12G	3LJ2-70	INT															
EF-J6	UNIT J ROOF	1/2 HP	120V/1PH	3/4"C,2-#12,1-#12G	3LJ2-68	INT															
EF-J7	RM. J313	28 WATTS	120V/1PH	3/4"C,2-#12,1-#12G	3LJ2-61	INT															
EF-K1	UNIT K ROOF	1/2 HP	120V/1PH	3/4"C,2-#12,1-#12G	3LK2-53	INT															
EF-K2	UNIT K ROOF	1/2 HP	120V/1PH	3/4"C,2-#12,1-#12G	3LK2-55	INT															
EF-K3	UNIT K ROOF	1/2 HP	120V/1PH	3/4"C,2-#12,1-#12G	3LK2-57	INT															
EF-K4	UNIT K ROOF	1/2 HP	120V/1PH	3/4"C,2-#12,1-#12G	3LJ2-66	INT															
EF-K5	RM. K303	28 WATTS	120V/1PH	3/4"C,2-#12,1-#12G	3LK2-59	INT															
EF-M1	RM. M101	1/2 HP	120V/1PH	3/4"C,2-#12,1-#12G	1LK1-34	INT															
EF-M2	RM. M101	3/4 HP	120V/1PH	3/4"C,2-#10,1-#10G	1LK1-36	INT															
GFS-1	RM. J324	3/4 HP	120V/1PH	3/4"C,2-#10,1-#10G	3LJ1-34	EC	NF	1	30A												
GFS-2	RM. J324	3/4 HP	120V/1PH	3/4"C,2-#10,1-#10G	3LJ1-36	EC	NF	1	30A												
GWH-3	RM. G100	9.4 FLA	120V/1PH	3/4"C,2-#12,1-#12G	LD-34	EC	NF	1	20A												
HP-1	RM. J324	79.4 FLA	480V/3PH	SEE RISER	3HJ3-1	INT															
HP-2	RM. J324	79.4 FLA	480V/3PH	SEE RISER	3HJ3-2	INT															
HP-3	RM. J324	79.4 FLA	480V/3PH	SEE RISER	3HJ3-3	INT															
HP-4	RM. J324	79.4 FLA	480V/3PH	SEE RISER	3HJ3-4	INT															
HP-5	RM. J324	79.4 FLA	480V/3PH	SEE RISER	3HJ3-5	INT															
HP-6	RM. J324	79.4 FLA	480V/3PH	SEE RISER	3HJ3-6	INT															
HP-J1.01	RM. J1100A	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-1(3,5)	INT															
HP-J1.02	RM. J101	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-2(4,6)	INT															
HP-J1.03	RM. J103	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-7(9,11)	INT															
HP-J1.04	RM. J102	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-8(10,12)	INT															
HP-J1.05	RM. J104	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-13(15,17)	INT															
HP-J1.06	RM. J1100	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-14(16,18)	INT															
HP-J1.07	RM. J1300	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-19(21,23)	INT															
HP-J1.08	RM. ST101	10.9 MCA	208V/1PH	3/4"C,4-#12,1-#12G	1LJ2-35(37)	INT															9
HP-J1.09	RM. J1000A	13.0 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-25(27,29)	INT															
HP-J1.10	RM. J1000A	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-20(22,24)	INT															
HP-J1.11	RM. J105	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-31(33,35)	INT															
HP-J1.12	RM. J107	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-26(2,30)	INT															
HP-J1.13	RM. J114	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-37(39,41)	INT															
HP-J1.14	RM. J116	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-32(34,36)	INT															
HP-J1.15	RM. J109	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-43(45,47)	INT															
HP-J1.16	RM. J111	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-38(40,42)	INT															
HP-J1.17	RM. J111	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-49(51,53)	INT															
HP-J1.18	RM. J128	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-44(46,48)	INT															
HP-J1.19	RM. J128	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HJ2-55(57,59)	INT															
HP-K1.01	RM. K101	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HK1-1(3,5)	INT															
HP-K1.02	RM. K102	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HK1-2(4,6)	INT															
HP-K1.03	RM. K104	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HK1-7(9,11)	INT															
HP-K1.04	RM. K1100	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HK1-8(10,12)	INT															
HP-K1.05	RM. K1100	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HK1-13(15,17)	INT															
HP-K1.06	RM. K103	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HK1-14(16,18)	INT															
HP-K1.07	RM. K105	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HK1-19(21,23)	INT															
HP-K1.08	RM. K106	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HK1-20(22,24)	INT															
HP-K1.09	RM. K108	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HK1-25(27,29)	INT															
HP-K1.10	RM. K107	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HK1-26(38,30)	INT															
HP-K1.11	RM. K1109	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HK1-31(33,35)	INT															
HP-K1.12	RM. K110	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HK1-32(34,36)	INT															
HP-K1.13	RM. K112	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HK1-37(39,41)	INT															
HP-K1.14	RM. K111	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HK1-38(40,42)	INT															
HP-K1.15	RM. K114	7.9 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HM1-37(39,41)	INT															
HP-L1.01	RM. L1000A	9.8 MCA	480V/3PH	3/4"C,4-#12,1-#12G	1HM1-25(27,29)	INT															
HP-L1.02	RM. L1000	13.0 M

RELAY PANEL SCHEDULE

PANEL NAME: 1RPL1
LOCATION: RM. L113
MOUNTING: SURFACE
PANEL REMARKS:

SUPPLY CIRCUIT: 1LL1-46
MANUFACTER: GREENGATE
MODEL: CK48-120/277-4-1-CKT-LB

RELAY NUMBER	DESCRIPTION	RELAY AMPACITY	DIMMING	POWER SOURCE				SCHOOL HOURS										AFTER HOURS										EXTERIOR CONTROLS		DIGITAL SWITCH CONTROL/TOUCHSCREEN	CONTROL SEQUNCE REMARKS
								OCCUPIED				UNOCCUPIED						OCCUPIED				UNOCCUPIED									
								CONTROL			LIGHT OUTPUT			CONTROL			LIGHT OUTPUT				CONTROL			LIGHT OUTPUT						
				NORMAL	EMERGEMCY	VOLTAGE	BRANCH CIRCUIT DESIGNATION	ASTRONOMICAL TIMECLOCK	DIGITAL SWITCH	OCCUPANCY SENSOR	ON	OFF	ASTRONOMICAL TIMECLOCK	DIGITAL SWITCH	OCCUPANCY SENSOR	ON	OFF	ASTRONOMICAL TIMECLOCK	DIGITAL SWITCH	OCCUPANCY SENSOR	ON	OFF	ASTRONOMICAL TIMECLOCK	DIGITAL SWITCH	OCCUPANCY SENSOR	ON	OFF	ASTRONOMICAL TIMECLOCK	PHOTOCELL		
1	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-7		X		100%			X			0%		X			100%	X			0%				1,2
2	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-9		X		100%			X			0%		X			100%	X			0%				1,2
3	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-11		X		100%			X			0%		X			100%	X			0%				1,2
4	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-13		X		100%			X			0%		X			100%	X			0%				1,2
5	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-15		X		100%			X			0%		X			100%	X			0%				1,2
6	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-17		X		100%			X			0%		X			100%	X			0%				1,2
7	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-19		X		100%			X			0%		X			100%	X			0%				1,2
8	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-21		X		100%			X			0%		X			100%	X			0%				1,2
9	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-23		X		100%			X			0%		X			100%	X			0%				1,2
10	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-25		X		100%			X			0%		X			100%	X			0%				1,2
11	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-27		X		100%			X			0%		X			100%	X			0%				1,2
12	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-29		X		100%			X			0%		X			100%	X			0%				1,2
13	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-31		X		100%			X			0%		X			100%	X			0%				1,2
14	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-33		X		100%			X			0%		X			100%	X			0%				1,2
15	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-35		X		100%			X			0%		X			100%	X			0%				1,2
16	LIGHT TRUSS - RM. L100 & M100	20A	N	X		277V	1HL1-37		X		100%			X			0%		X			100%	X			0%				1,2
17	LIGHT - RM. L100 & M100	20A	N	X		277V	1HL1-39		X		100%			X			0%		X			100%	X			0%				1,2
18	LIGHTS - RM. L200 & M200	20A	N	X		277V	1HL1-41		X		100%			X			0%		X			100%	X			0%				1,2
19	LOBBY LIGHTS - RMS. L1000 & M1000	20A	N	X		277V	1HL1-1	X			100%				X		0%			X		100%	X		X		0%				3,4
20	LIGHTS - RM. L101	20A	N	X		277V	1HL1-1	X			100%				X		0%			X		100%	X		X		0%				3,4
21	LIGHTS - RM. M104	20A	N	X		277V	1HL1-1	X			100%				X		0%			X		100%	X		X		0%				3,4
22	LIGHTS - K1000 ATRIUM	20A	N	X		277V	1HL1-1	X			100%				X		0%			X		100%	X		X		0%				3,4
23	LIGHTS - RM. L1000A	20A	N	X		277V	1HL1-1	X			100%				X		0%			X		100%	X		X		0%				3,4
24	LIGHTS - RM. K1000, L2200, L3000	20A	N	X		277V	1HL1-2	X			100%				X		0%			X		100%	X		X		0%				3,4
25	LOBBY LIGHTS - RMS. L2000 & M2000	20A	N	X		277V	1HL1-4	X			100%				X		0%			X		100%	X		X		0%				3,4
26	LIGHTS - RM. L202	20A	N	X		277V	1HL1-4	X			100%				X		0%			X		100%	X		X		0%				3,4
27	LIGHTS - RM. M204	20A	N	X		277V	1HL1-4	X			100%				X		0%			X		100%	X		X		0%				3,4
28	LIGHTS - RM. J1000A	20A	N	X		277V	1HL1-2	X			100%				X		0%			X		100%	X		X		0%				3,4
29	LIGHTS - RM. K1000, L2200, L3000	20A	N	X		277V	1HL1-2	X			100%				X		0%			X		100%	X		X		0%				3,4
30	LIGHTS - RM. K1000/J1000	20A	N	X		277V	1HL1-6	X			100%				X		0%			X		100%	X		X		0%				3,4
31	LIGHTS - RM. K1000/J1000	20A	N	X		277V	1HL1-8	X			100%				X		0%			X		100%	X		X		0%				3,4
32	LIGHTS - RM. K1000/J1000	20A	N	X		277V	1HL1-10	X			100%				X		0%			X		100%	X		X		0%				3,4
33	LIGHTS - RM. K1000/J1000	20A	N	X		277V	1HL1-12	X			100%				X		0%			X		100%	X		X		0%				3,4
34	EMERGENCY LIGHTS - RM....	20A	N	X		277V	1HL1-14	X			100%				X		0%			X		100%	X		X		0%				5
35																															
36																															
37																															
38																															
39																															
40																															
41																															
42																															
43																															
44																															
45																															
46	TRACK LIGHTS - RM. M104	20A	N	X		120V	1LL1-50	X	X		0%			X		0%			X		0%	X		X		0%				3,1
47	TRACK LIGHTS - RM. L1000	20A	N	X		120V	1LL1-42	X	X		100%			X		0%			X		100%	X		X		0%				3,4
48	TRACK LIGHTS - RM. M1000	20A	N	X		120V	1LL1-44	X	X		100%			X		0%			X		100%	X		X		0%				3,4

CONTROL SEQUENCE REMARKS:

1. RELAYS SHALL BE CONTROLLED BY THE "POOL ON", " POOL OFF", "EVENT ON", AND "EVENT OFF" BUTTONS ON DIGITAL SWITCH "DS1". THE TIME PERIOD SHALL OPERATE LIGHTS FOR MINIMUM 4 HOURS.
2. RELAY SHALL BE PROGRAMMED TO BE TURN OFF AFTER 10:00 PM DAILY.
3. RELAY SHALL BE TURNED ON FROM 7:00 AM TO 5:00 PM MONDAY THROUGH FRIDAY. AFTER HOURS CONVERT TO OCCUPANCY SENSING ON/OFF OPERATION.
4. RELAYS SHALL BE CONTROLLED BY THE "ATRIUM ON", "ATRIUM OFF", "EVENT ON", AND "EVENT OFF" BUTTONS ON DIGITAL SWITCH "DS1". THE TIME PERIOD SHALL OPERATE LIGHTS FOR MINIMUM 4 HOURS.
5. RELAY SHALL BE CONTROLLABLE THROUGH RELAY PANEL. FIXTURE ARE USED FOR EMERGENCY EGRESS LIGHTING IN ATRIUM J1000 & K1000

GENERAL NOTES

A. CONTRL SEQUENCE IS FOR BIDDING PURPOSES ONLY THE CONTRACTOR SHALL SCHEDULE TIME WITH OWNER TO VERIFY PROGRAMING REQIUIREMENTS AND BUTTON NOMENCLATURE.

EXTERIOR LIGHT FIXTURE SCHEDULE

TAG	MANUFACTURER'S CATALOG NUMBER	MAX. WATTS	MOUNT	MIN. LUMEN OUTPUT *(D/I)	CCT	CRI	DESCRIPTION	REMARKS
SL1	STREETWORKS #VERD-M-CA3-160-740-HV-T4-A15-XX-MS/DIM-L40 WITH #SSA4T30W-XX-1-FGV	163	POLE	24,394	4000	70	480V, DIE CAST ALUMINUM FIXTURE WITH TYPE IV. POLE MOUNT ARM. MOTION SENSOR WITH STAND-ALONE PASSIVE INFRARED MOTION SENSING. SENOR SHALL HAVE CAPABILITIES TO BE PROGRAMMED THROUGH HAND HELD DEVICE USING INFRARED. POLE SHALL BE 30'-0 TALL, 4" SQUARE ALUMINUM POLE WITH SINGLE HEAD MOUNTING, VIBRATION PAD, GROUND LUG AND VIBRATION DAMPENER	1,2
SL1-HS	STREETWORKS #VERD-M-CA3-160-740-HV-T4-A15-XX-HSS-MS/DIM-L40 WITH #SSA4T30W-XX-1-FGV	163	POLE	24,394	4000	70	480V, DIE CAST ALUMINUM FIXTURE WITH TYPE IV. POLE MOUNT ARM AND HOUSE SIDE SHIELD MOTION SENSOR WITH STAND-ALONE PASSIVE INFRARED MOTION SENSING. SENOR SHALL HAVE CAPABILITIES TO BE PROGRAMMED THROUGH HAND HELD DEVICE USING INFRARED. POLE SHALL BE 30'-0 TALL, 4" SQUARE ALUMINUM POLE WITH SINGLE HEAD MOUNTING, VIBRATION PAD, GROUND LUG AND VIBRATION DAMPENER	1,3
SL2	STREETWORKS #VERD-M-CA3-160-740-HV-T5-A15-XX-MS/DIM-L40 WITH #SSA4T30W-XX-1-FGV	163	POLE	24,011	4000	70	480V, SINGLE HEAD DIE CAST ALUMINUM FIXTURE WITH TYPE V. POLE MOUNT ARM. MOTION SENSOR WITH STAND-ALONE PASSIVE INFRARED MOTION SENSING. SENOR SHALL HAVE CAPABILITIES TO BE PROGRAMMED THROUGH HAND HELD DEVICE USING INFRARED. POLE SHALL BE 30'-0 TALL, 4" SQUARE ALUMINUM POLE WITH SINGLE HEAD MOUNTING, VIBRATION PAD, GROUND LUG AND VIBRATION DAMPENER.	1,2
SL2-2	STREETWORKS #VERD-M-CA3-160-740-HV-T5-A15-XX-MS/DIM-L40 WITH #SSA4T30W-XX-1-FGV	326	POLE	48,022	4000	70	480V, DUAL HEAD DIE CAST ALUMINUM FIXTURE WITH TYPE V. POLE MOUNT ARM. MOTION SENSOR WITH STAND-ALONE PASSIVE INFRARED MOTION SENSING. SENOR SHALL HAVE CAPABILITIES TO BE PROGRAMMED THROUGH HAND HELD DEVICE USING INFRARED. POLE SHALL BE 30'-0 TALL, 4" SQUARE ALUMINUM POLE WITH 2 AT 180 DEGREE HEAD MOUNTING, VIBRATION PAD, GROUND LUG AND VIBRATION DAMPENER. PROVIDE THREADED OPENING TO MOUNT FL2 FIXTURE.	1,4

GENERAL REMARKS:

1. PROVIDE TWO (2) WIRELESS CONFIGURATIONS TOOLS TO OWNER AFTER COMPLETION OF PROJECT.
2. FIXTURE SHALL WATTSTOPPER #FSP-211 UTILIZING FSIR-100 CONFIGURATION TOOL.

REMARKS:

1. MOTION SENSOR SHALL BE SET UP WITH HIGH SETTING TO BE 100% AND LOW SETTING TO BE 15% .
2. CONTRACTOR SHALL PROVIDE AN ALLOWANCE OF $3,300.00 FOR FIXTURE AND POLE THIS INCLUDES FREIGHT AND SHIPPING COSTS.
3. CONTRACTOR SHALL PROVIDE AN ALLOWANCE OF $3,395.00 FOR FIXTURE AND POLE THIS INCLUDES FREIGHT AND SHIPPING COSTS.
4. **CONTRACTOR SHALL PROVIDE AN ALLOWANCE OF $3,850.00 FOR FIXTURE AND POLE THIS INCLUDES FREIGHT AND SHIPPING COSTS.**

LIGHTING SENSOR SCHEDULE

TAG	MANUFACTURER'S CATALOG NUMBER	INPUT VOLTAGE	MOUNT	REMARKS	REMARKS
O1	WATTSTOPPER #DT-300 SENSOR SWITCH #CM-PDT-9-R GREENGATE #OAC-DT-R HUBBELL #OMNI-DT-XXXX-RP	24V	CEILING	DUAL TECHNOLOGY CEILING SENSOR WITH A COMBINATION OF ULTRASONIC AND PASSIVE INFRARED. SENSOR TO BE EQUIPPED WITH SELF ADJUSTING TECHNOLOGY AND ISOLATED RELAY OUTPUTS. SENSOR SHALL OPERATE AS AUTOMATIC "ON" AND AUTOMATIC "OFF" WITH A 15 MINUTE TIME DELAY.	1
O2	WATTSTOPPER #DT-200 SENSOR SWITCH #WV-PDT-16-R GREENGATE #OAWC-DT-120W-R HUBBELL #LO-DT-RP LUTRON #LOS-CDT-2000	24V	WALL	DUAL TECHNOLOGY CEILING SENSOR WITH A COMBINATION OF ULTRASONIC AND PASSIVE INFRARED. SENSOR TO BE EQUIPPED WITH SELF ADJUSTING TECHNOLOGY AND ISOLATED RELAY OUTPUTS. SENSOR SHALL OPERATE AS AUTOMATIC "ON" AND AUTOMATIC "OFF" WITH A 15 MINUTE TIME DELAY.	1
O3	WATTSTOPPER #DW-100 SENSOR SWITCH #WSD-PDT GREENGATE #ONW-D-1001-MV HUBBELL #LH-MT-S-1 LUTRON #MS-B102	120/277V	WALL	DUAL TECHNOLOGY WALL SWITCH SENSOR WITH A COMBINATION OF ULTRASONIC AND PASSIVE INFRARED. SENSOR TO BE EQUIPPED WITH SELF ADJUSTING TECHNOLOGY. SENSOR SHALL OPERATE AS AUTOMATIC "ON" AND AUTOMATIC "OFF" WITH A 15 MINUTE TIME DELAY. COLOR TO BE SELECTED BY ARCHITECT.	
O4	WATTSTOPPER #DT-300 SENSOR SWITCH #CM-PDT-9-R GREENGATE #OAC-DT-R HUBBELL #OMNI-DT-XXXX-RP LUTRON #LOS-CDT-2000	24V	CEILING	DUAL TECHNOLOGY CEILING SENSOR. SENSOR TO BE EQUIPPED WITH SELF ADJUSTING TECHNOLOGY AND ISOLATED RELAY OUTPUTS. SENSOR SHALL OPERATE IN CONJUNCTION WITH RELAY PANEL	
O5	WATTSTOPPER #DT-200 SENSOR SWITCH #WV-PDT-16-R GREENGATE #OAWC-DT-120W-R HUBBELL #LO-DT-RP	24V	WALL	DUAL TECHNOLOGY WALL SENSOR. SENSOR TO BE EQUIPPED WITH SELF ADJUSTING TECHNOLOGY AND ISOLATED RELAY OUTPUTS. SENSOR SHALL OPERATE IN CONJUNCTION WITH RELAY PANEL	
PP	WATTSTOPPER #BZ150 SENSOR SWITCH #PP20 GREENGATE #SP20-MV HUBBELL	120/277V	4 SQUARE BOX ABOVE ACCESSIBLE CEILING	POWER PACK TO OPERATE LOW VOLTAGE (24VDC) OCCUPANCY SENSORS. RELAY TO BE 20A RATED.	

REMARKS:

1. PROVIDE POWER PACKS AS REQUIRED TO OPERATE LIGHTING AS SHOWN ON FLOOR PLANS
2. 120/277V SENSOR IN LIEU OF POWER PACK IS ACCEPTABLE.

GENERAL NOTES:

1. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE INSTALLED 6'-0" AWAY FROM ANY SUPPLY DIFFUSERS, COORDINATE WITH MECHANICAL CONTRACTOR.

FLOOR BOX AND POKE-THRU SCHEDULE

TAG	FLOOR BOX MODEL NUMBER	COVER PLATE MODEL NUMBER	POWER INSERT		DATA INSERT		NOTES
			QTY	TYPE	QTY	TYPE	
PT1	HUBBELL #S1R10PTFIT WITH TWO (2) S1R10CBF200	HUBBELL #S1R10CVRALU	2	S1R10SPI	1	S1R10CSPP	1,2,3,4

NOTES:

1. EQUIVALENT MANUFACTURER LEGRAND/WIREMOLD.
2. PROVIDE WITH BLANKS AS REQUIRED.
3. COORDINATE DATA INSERTS WITH DIVISION 27 CONTRACTOR AND CONDUIT FEED PLATES.
4. ARCHITECT TO SELECT FINAL FINISH OF COVER

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CLARK-PLEASANT COMMUNITY SCHOOLS CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN STREET, WHITELAND, IN 46184

ANDREW STEPHEN LOCKWOOD REGISTERED PE11700017 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
1	09-06-2023	Addendum #2

100% CONSTRUCTION DOCUMENTS

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: Author

SCHEDULES

E703

PRIMARY JOB # 22417

PLOT DATE/TIME:9/6/2023 7:45:24 AM

THIS MONOCHROME PRINT SHOULD DISPLAY GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

PLAN NOTES

X

1. PROVIDE AND INSTALL 12"X12" IN-GROUND PULL BOX WITH OPEN BOTTOM TO SERVE SITE LIGHTING CIRCUIT(S). EQUAL TO PG SERIES. LID SHALL BE MARKED "LIGHTING".CONTRACTOR SHALL SPLICE CONDUCTORS FROM EXISTING CIRCUIT TO NEW SITE LIGHTING BRANCH CIRCUIT IN PULL BOX. CONTRACTOR SHALL UTILIZED LONG BARREL DOUBLE CRIMP COMPRESSION CONNECTOR AND HEAT SHRINK WRAP CONNECTION.
2. PROVIDE AND INSTALL 2-#10,1-#10G IN 1" RNC AT -24" BELOW GRADE TO SERVE NEW SITE FIXTURE(S).
3. PROVIDE AND INSTALL ONE (1) 1" CONDUIT STUBBED OUT 5'-0" AWAY FROM IN-GROUND PULL BOX, CAP AND SEAL CONDUIT AND PERMANENTLY MARK.
4. ROUTE 2-#0,1-#10 IN 1" CONDUIT AT -24" BELOW GRADE TO CONTRACTOR SC1 IN ROOM L113, REFER TO DETAIL #2 ON SHEET E504 FOR ADDITIONAL INFORMATION.
5. PROVIDE AND INSTALL CONCRETE PAD PER LOCAL UTILITIES REQUIREMENTS.
6. INSTALL SECONDARY CONDUCTORS IN CONCRETE DUCT BACK AT -60" BELOW GRADE TO TOP OF DUCT BANK. COORDINATE ROUTING WITH OTHER TRADES AND UTILITIES.
7. PROVIDE AND INSTALL 36"X48" IN-GROUND PULL BOX WITH OPEN BOTTOM TO SERVE SITE LIGHTING CIRCUIT(S). EQUAL TO PG SERIES. LID SHALL BE MARKED "POWER".CONTRACTOR SHALL SPLICE CONDUCTORS FROM EXISTING CIRCUIT TO NEW SITE LIGHTING BRANCH CIRCUIT IN PULL BOX. CONTRACTOR SHALL UTILIZED LONG BARREL DOUBLE CRIMP COMPRESSION CONNECTOR AND HEAT SHRINK WRAP CONNECTION.
8. PROVIDE AND INSTALL TWO (2) 6" CONDUITS WITH NYLON PULL STRINGS FOR UTILITY POLE TO PRIMARY SECTION OF TRANSFORMER PAD. ROUTE ONE (1) 6" CONDUIT TO UTILITY POLE AND ROUTE (1) 6" POLE TO GRASSY AREA, CAP AND SEAL CONDUIT FOR FUTURE USE.
9. ROUTE ONE (1) 6" CONDUITS AT +8'-0" ABOVE FINISHED GRADE ON UTILITY POLE.
10. ROUTE BRANCH CIRCUIT THRU CONTACTOR SC2 LOCATED IN ROOM J128, REFER TO DETAIL #2 ON SHEET E504 FOR ADDITIONAL INFORMATION.
11. PROVIDE AND INSTALL ONE (1) 1-1/2" CONDUIT WITH NYLON PULL STRING FROM SIGN AT -24" BELOW GRADE FINISHED GRADE TO TELECOM CLOSET J120, STUB CONDUIT +12" ABOVE FINISHED FI0OR

SL1-HS
SL1
SL2
SL2-2
1HJ1-11
FL1
FL2
+20'-0"
1L2-42
1-1/4"C,2-#6,1-#8G
SITE SIGN
5'-0" min

PLOT DATETIME: 7/7/2023 9:46:17 AM

THIS MONOCHROME PRINT SHOULD DISPLAY GRAYSCALE BOXES BELOW IF PRINTED PROPERLY WITH 256 SHADES OF GRAY

0 10' 20' 30' SCALE: 1" = 10'-0"
0 20' 40' 60' SCALE: 1" = 20'-0"
0 30' 60' 90' SCALE: 1" = 30'-0"
0 40' 80' 120' SCALE: 1" = 40'-0"
0 50' 100' 150' SCALE: 1" = 50'-0"
0 60' 120' 180' SCALE: 1" = 60'-0"
0 70' 140' 210' SCALE: 1" = 70'-0"

1 ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"

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REVISIONS:

#	Date	Desc
1	08-30-2023	Addendum #1.
1	09-06-2023	Addendum #2.

100% CONSTRUCTION DOCUMENTS

PROJECT: #17087
DATE: 07-28-2023
DRAWN BY: RHA

ELECTRICAL SITE PLAN

ES201

PRIMARY JOB # 22417

DESIGN 27 TECHNOLOGY + ACOUSTICS	Whiteland High School Addendum #2 Narrative	September 06, 2023

SPECIFICATIONS:

1) Specification 27 05 28 – Pathways for Communications Systems
- **a)** Deleted part 1.1.B.7 "Wire Mesh Cable Tray".
- **b)** Deleted part 2.7 "WIRE MESH CABLE TRAY, SUPPORTS, AND ACCESSORIES". Wire mesh cable tray is not utilized within the project.
- **c)** Deleted part 3.2 "CORRIDOR CABLE TRAY SYSTEM"

2) Specification 27 41 16 – Integrated Audio Video Systems and Equipment
- **a)** Deleted part 1.1.D.17 "Flat Panel Display Mobile Cart"
- **b)** Deleted part 2.17 "FLAT PANEL DISPLAY MOBILE CART". Flat panel display mobile carts will be owner furnished and owner installed.

DRAWINGS:

1) Sheet T201J – FIRST FLOOR TECHNOLOGY PLAN – UNIT J
- **a)** Updated sheet note number 4 to indicate flat panel display mobile carts and the flat panel displays mounted to flat panel display mobile carts shall be owner furnished and owner installed (O.F.O.I.)

2) Sheet T201K – FIRST FLOOR TECHNOLOGY PLAN – UNIT K
- **a)** Updated sheet note number 3 to indicate flat panel display mobile carts and the flat panel displays mounted to flat panel display mobile carts shall be owner furnished and owner installed (O.F.O.I.)

3) Sheet T202J – SECOND FLOOR TECHNOLOGY PLAN – UNIT J
- **a)** Updated sheet note number 3 to indicate flat panel display mobile carts and the flat panel displays mounted to flat panel display mobile carts shall be owner furnished and owner installed (O.F.O.I.)

4) Sheet T202K – SECOND FLOOR TECHNOLOGY PLAN – UNIT K
- **a)** Updated sheet note number 1 to indicate flat panel display mobile carts and the flat panel displays mounted to flat panel display mobile carts shall be owner furnished and owner installed (O.F.O.I.)

5) Sheet T202L – SECOND FLOOR TECHNOLOGY PLAN – UNIT L

a) Updated sheet note number 3 to indicate flat panel display mobile carts and the flat panel displays mounted to flat panel display mobile carts shall be owner furnished and owner installed (O.F.O.I.)

6) Sheet T202M – SECOND FLOOR TECHNOLOGY PLAN – UNIT M

a) Updated sheet note number 1 to indicate flat panel display mobile carts and the flat panel displays mounted to flat panel display mobile carts shall be owner furnished and owner installed (O.F.O.I.)

7) Sheet T203 J – THIRD FLOOR TECHNOLOGY PLAN – UNIT J

a) Updated sheet note number 2 to indicate flat panel display mobile carts and the flat panel displays mounted to flat panel display mobile carts shall be owner furnished and owner installed (O.F.O.I.)

8) Sheet T203K – THIRD FLOOR TECHNOLOGY PLAN – UNIT K

a) Updated sheet note number 1 to indicate flat panel display mobile carts and the flat panel displays mounted to flat panel display mobile carts shall be owner furnished and owner installed (O.F.O.I.)

9) Sheet T203L – THIRD FLOOR TECHNOLOGY PLAN – UNIT L

a) Updated sheet note number 2 to indicate flat panel display mobile carts and the flat panel displays mounted to flat panel display mobile carts shall be owner furnished and owner installed (O.F.O.I.)

10) Sheet T203M – THIRD FLOOR TECHNOLOGY PLAN – UNIT M

a) Updated sheet note number 1 to indicate flat panel display mobile carts and the flat panel displays mounted to flat panel display mobile carts shall be owner furnished and owner installed (O.F.O.I.)

11) Sheet T300 – TELECOM DIAGRAMS

a) Revised detail #3 “TELECOM DISTRIBUTION DIAGRAM” to utilize new corridor J-hooks in lieu of new corridor cable tray. Corridor cable tray is not utilized within the project.

12) Sheet T306 – AUDIO VISUAL DIAGRAMS

a) Added audio annotation symbols to the input side of both Office/Controls L102 and Cont M102 audio connection locations.

b) Reduced the number of XLR audio outputs from two to one at both Office/Controls L102 and Cont M102 audio connection locations to match the audio connection location detail on sheet T400.

c) Moved the rack mounted HDMI video output locations from the left side of the diagram to the right side of the diagram in order to accurately represent the connection point as an output

d) Added two additional rack mounted SDI video inputs.

e) Reduced the number of SDI video outputs from two to one at both Office/Controls L102 and Cont M102 video connection locations to match the video connection location detail on sheet T400.

f) Reduced the number of SDI video inputs from two to one at both Office/Controls L102 and Cont M102 video connection locations to match the video connection location detail on sheet T400.

13) Sheet T307 – AUDIO VISUAL DIAGRAMS

a) Revised all monitor location labels to indicate wall mounted flat panel displays shall be contractor furnished and contractor installed (C.F.C.I.).

b) Revised all flat panel display mobile cart labels to indicate flat panel display mobile carts shall be owner furnished and owner installed (O.F.O.I.).

c) Revised all flat panel display labels located within a flat panel display mobile cart box to indicate flat panel displays mounted to a flat panel display mobile cart shall be owner furnished and owner installed (O.F.O.I.).

14) Sheet T308 – AUDIO VISUAL DIAGRAMS

a) Revised all monitor location labels on the Office L104 AV Diagram, Flex J140 and J234, Small Group, Conference J126 AV Diagram, and Atrium AV Diagram to indicate wall mounted flat panel displays shall be contractor furnished and contractor installed (C.F.C.I).

b) Revised all flat panel display mobile cart labels on the Typical Classroom AV Diagram to indicate flat panel display mobile carts shall be owner furnished and owner installed (O.F.O.I.).

c) Revised the flat panel display label located within the flat panel display mobile cart box on the Typical Classroom AV Diagram to indicate flat panel displays mounted to a flat panel display mobile cart shall be owner furnished and owner installed (O.F.O.I.).

15) Sheet T310 – AUDIO VISUAL RACK ELEVATIONS

a) Revised the "Pool AV Rack Elevation" to reflect the addition of two rack mounted SDI video inputs.

b) Updated the title of the "Atrium AV Rack Elevation" to "STOR J138 AV Rack Elevation" to indicate where the AV rack shall be installed.

c) Updated the title of the "Pool AV Rack Elevation" to "AV L201 AV Rack Elevation" to indicate where the rack shall be installed.

16) Sheet T311 – AUDIO VISUAL ELEVATIONS

a) Updated the title of the "55" Flat Panel Display Typical Sm Group AV Elevation" to "43" Flat Panel Display Typical Sm Group J200 and J300 AV Elevation"

17) Sheet T400 – TECHNOLOGY DETAILS

a) Revised the video connection location detail from a double gang backbox and faceplate to a single gang backbox and faceplate. The video connection location now has one SDI video input and one SDI video output instead of two SDI video inputs

SHEET INDEX:

T201J – FIRST FLOOR TECHNOLOGY PLAN – UNIT J
T201K – FIRST FLOOR TECHNOLOGY PLAN – UNIT K

T202J – SECOND FLOOR TECHNOLOGY PLAN – UNIT J
T202K – SECOND FLOOR TECHNOLOGY PLAN – UNIT K
T202L – SECOND FLOOR TECHNOLOGY PLAN – UNIT L
T202M – SECOND FLOOR TECHNOLOGY PLAN – UNIT M
T203J – THIRD FLOOR TECHNOLOGY PLAN – UNIT J
T203K – THIRD FLOOR TECHNOLOGY PLAN – UNIT K
T203L – THIRD FLOOR TECHNOLOGY PLAN – UNIT L
T203M – THIRD FLOOR TECHNOLOGY PLAN – UNIT M
T300 – TELECOM DIAGRAMS
T306 – AUDIO VISUAL DIAGRAMS
T307 – AUDIO VISUAL DIAGRAMS
T308 – AUDIO VISUAL DIAGRAMS
T310 – AUDIO VISUAL RACK ELEVATIONS
T311 – AUDIO VISUAL ELEVATIONS
T400 – TECHNOLOGY DETAILS

SECTION 27 05 28 - PATHWAYS FOR COMMUNICATIONS SYSTEMS

PART 1 - GENERAL

1.1 DESCRIPTION

A. This section includes minimum requirements for the following:

1. Interior Horizontal Cabling Communication Pathways.
2. Exterior Backbone Cabling Communication Pathways

B. Minimum requirements and installation methods for the following pathways:

1. Conduit
2. Underground Ducts and Raceways
3. Telecommunications Outlet Boxes
4. Wall Mounted Monitor Outlet Boxes
5. Poke-Thru Devices
6. Floor Boxes
7. Cable Hangers
8. Related work specified elsewhere:
   a. Division 26 - Electrical

1.2 QUALITY ASSURANCE

A. All pathways and associated equipment shall be installed in a neat and workmanlike manner. All methods of construction that are not specifically described or indicated in the contract documents shall be subject to the control and approval of the architect and Owner’s Project Manager. Equipment and materials shall be of the quality and manufacture indicated. The equipment specified is based upon the acceptable manufacturers listed. Where "approved equal" is stated, equipment shall be equivalent in every way to that of the equipment specified and subject to approval.

B. Materials and work specified herein shall comply with the applicable requirements of:

1. National Electric Code (NFPA 70) including the following Articles:

   a. 318 Cable Trays
   b. 331 Electrical Nonmetallic tubing
   c. 348 Electrical metallic tubing
   d. 349 Flexible metallic tubing
   e. 350 Flexible metal conduit
   f. 351 Liquid-Tight Flexible metal conduit and Liquid-Tight flexible nonmetallic conduit
   g. 352A Surface Metal Raceways
   h. 352B Surface Nonmetallic raceways
   i. 353 Multi-outlet Assembly
   j. 354 Underfloor raceways
   k. 362 Metal Wireways and nonmetallic Wireways
   l. 370 Outlet, Device, Pull and Junction Boxes, Conduit Bodies and Fittings
   m. 645 Information Technology Equipment
   n. 770 Optical Fiber Cables and Raceways
   o. 800 Communications Circuits

2. The following American National Standards Institute (ANSI) standards:

a. ANSI-C80.3 Specification for Electrical Metallic Tubing, Zinc-coated

3. The following Telecommunication Industry Association (TIA) standards:

a. ANSI/TIA – 568-B Commercial Building Telecommunications Cabling Standard
b. ANSI/TIA – 569-A Commercial Building Standard for Telecommunications Pathway and Spaces
c. ANSI/TIA-606-B Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
d. ANSI/TIA-607 Commercial Building Grounding and Bonding requirements for Telecommunications

4. The following BICSI guidelines:

a. BICSI Telecommunications Distribution Design Manual (Most Recent Edition)
b. BICSI Telecommunications Cabling Installation Manual (Most Recent Edition)

5. The following UL standards:

a. UL 1, 2000 Flexible Metal Electrical Conduit
b. UL 3, 1999 Flexible Nonmetallic Tubing for Electric Wiring
c. UL 5, 1996 Surface Metal Electrical Raceways and Fittings
d. UL 360, 1996 Liquid-Tight Flexible Steel Conduit, Electrical
e. UL 514B, 1996 Fittings for Conduit and Outlet Boxes
f. UL 797, 1997 Electrical Metallic Tubing
g. UL 870, 1995 Electrical Wireways, Auxiliary Gutters and Associated Fittings

1.3 SUBMITTALS

A. Contractors shall provide product data for the all the equipment specified herein.

PART 2 - PRODUCTS

2.1 CONDUIT

A. All telecommunications conduits and boxes are provided for under Division 26. All infrastructure requirements shall at a minimum meet the details and pathways illustrated within the T-series sheets.

2.2 UNDERGROUND DUCTS AND RACEWAY

A. Ducts shall be HDPE or Schedule 40 PVC, 3” minimum ID nominal trade size, unless noted otherwise.

B. All telecommunications underground ducts and raceways are provided for under Division 26. All infrastructure requirements shall at a minimum meet the details and pathways illustrated within the T-series sheets.

2.3 TELECOMMUNICATIONS OUTLET BOXES

A. Boxes shall be a minimum of 4 11/16” W x 4 11/16”” L x 2 1/8” D.

B. Each box shall include the properly sized device rings as required by the contract drawings.

C. All infrastructure requirements shall at a minimum meet the details and pathways illustrated within the T-series sheets.

D. Acceptable Manufacturers:
1. Raco
2. Steel City
3. Or Approved Equal

2.4 WALL MOUNTED MONITOR OUTLET BOXES

A. Boxes shall be FSR PBW-250-2KO-BX back boxes and provided for under Division 26

B. Each box shall be provided with required cover to conceal the opening.

C. All infrastructure requirements shall at a minimum meet the details and pathways illustrated within the T-series sheets.

D. Acceptable Manufacturers:
1. Raco
2. Steel City
3. Or Approved Equal

2.5 POKE-THRU DEVICES

A. All poke thru devices are provided for under Division 26. All infrastructure requirements shall at a minimum meet the details and pathways illustrated within the T-series sheets.

2.6 FLOOR BOXES

A. All floor boxes are provided for under Division 26. All infrastructure requirements shall at a minimum meet the details and pathways illustrated within the T-series sheets.

2.7 CABLE HANGERS

A. Provide prefabricated, zinc coated, carbon steel wide base hangers designed specifically for data communications and audio visual cable installations.

B. Hanger and supports must be NRTL (Nationally Recognized Testing Laboratories) labeled for support of Category 6 and Category 6a cabling.

C. Hangers shall have open top, rolled edges and a 2” to 4” minimum diameter loop as required.

D. Provide beam clamps, rod fasteners, flange clips and brackets as job conditions require.

E. Acceptable Manufacturers:

1. Cooper B-Line
2. Erico
3. Panduit
4. Or Equal

PART 3 - EXECUTION

3.1 GENERAL REQUIREMENTS

A. The intention of the telecommunications conduits is to provide a route between ER and TR rooms, routes from the TR's throughout building floors to hallways, hand routes from hallway distribution systems into rooms to individual drop locations for telecommunications cabling.

B. Support raceways from building construction. Do not support raceways from ductwork piping, or equipment hangers.

C. Support outlet, pull, and junction boxes independently from building construction. Do not support from raceways.

D. Coordinate all raceway runs with other trades.

E. All open raceways shall be installed away from any light fixture or other source of EMI (Electro-magnetic interference).

1. Open cables and cables in nonmetallic raceways and unshielded power:

   a. Electrical less than 2 kVa - 5 inch minimum
   b. Electrical 2 to 5 kVa - 12 inch minimum
   c. Electrical greater than 5 kVa - 24 inch minimum

2. Cables in grounded metallic raceways and unshielded power:

   a. Electrical less than 2 kVa - 2-1/2 inch minimum
   b. Electrical 2 to 5 kVa - 6 inch minimum
   c. Electrical greater than 5 kVa - 12 inch minimum

3. Cables in grounded metallic raceways and shielded power:

   a. Electrical less than 2 kVa - 1 inch minimum
   b. Electrical 2 to 5 kVa - 3 inch minimum
   c. Electrical greater than 5 kVa - 6 inch minimum

4. Cables and electrical motors and transformers 5 kVa or larger - 48 inches
5. Cables and fluorescent fixtures - 5 inches

F. All horizontal pathways shall be bonded and grounded per the NEC Article 250.

G. In all cases, horizontal pathways shall be sized for a minimum of 60% future growth.

H. Horizontal distribution cables shall be bundled in groups of no more than 50 cables. Cable bundle quantities in excess of 50 cables may cause deformation of the bottom cables within the bundle and degrade cable performance.

3.2 CONDUIT

A. All telecommunications conduit shall be installed as required under Division 26 and detailed on the T-series sheets.

3.3 CONDUIT SLEEVES

A. Install an appropriately sized Conduit Waterfall on all conduit sleeves containing cables that transition more than 6" vertically from the sleeve down to another raceway (conduit or cable tray).

B. Install Nylon Cable Protectors in conduits where large amounts of cables enter/exit the conduit system creating pressure on the cables on the leading conduit edge. These protectors would not be used on conduits where Conduit Waterfall is required (more than 6” of vertical drop).

C. Install EZ Path or similar sleeves where cables must penetrate fire-rated walls between sections of skeletal conduit or cable tray sections.

3.4 CABLE HANGERS

A. J-hooks shall be installed per ANSI/EIA/TIA 569 Commercial Building Standards for Telecommunications Pathways and Spaces.

B. Provide cable hangers a maximum of 3’ on center wherever cable tray or conduit is not present.

C. Load hangers as recommended by the manufacturer. Provide hangers side by side on a common bracket where cable quantities require.

D. Do not install cables loose above lock-in type, drywall or plaster ceilings.

E. Cables shall be installed at least six (6) inches above the ceiling tiles and shall not touch the ceiling.

F. Do not support cable from ceiling system tie wires or grid in fire rated systems.

3.5 TELECOMMUNCATIONS OUTLET BOXES

A. All boxes shall be flush mounted within walls unless otherwise noted.

B. Contractor shall install all boxes and device rings according the manufacturer recommendations and requirements.

C. Boxes shall be installed at the height as shown on the contract drawings or at the same height as all other electrical outlet locations within the space.

3.6 SUPPORTING DEVICES

A. Provide steel angles, channels and other materials necessary for the proper support of wall-mounted cabinets, racks, panels, etc.

B. Cabinets, large pull boxes, and cable support boxes shall be secured to ceiling and floor slab and not supported from conduits. Small equipment boxes, etc., as approved by the Architect and Project Manager, may be supported on walls.

C. Racks for support of conduit and heavy equipment shall be secured to building construction by substantial structural supports.

3.7 FIRE STOPS

A. In all buildings, floor/ceiling assemblies, stairs, and elevator penetrations must be sealed with a 2-hour fire stop assembly at a minimum, unless otherwise noted.

B. Contact Architect to identify walls which are fire-rated construction. Walls must be sealed with a 2-hour fire stop assembly at a minimum.

C. Communication pathways requiring fire stopping shall utilize removable/re-usable fire stopping putties for ease of Moves, Adds, and Changes.

D. All fire stopping penetrations shall conform to the recommended practices listed in UL1479 or ASTM E814 and must be labeled with the UL1479 or ASTM E814 reference number, dated, and signed by the technician who installed the fire stopping material.

3.8 UNDERGROUND DUCTS AND RACEWAYS

A. Ducts shall be trenched or directional bored and installed with a minimum of 36” of cover.

B. Ducts shall be installed a minimum of 12” from electrical conduits.

C. Corners and bends of duct runs shall be installed with long radius sweeps.

D. Ducts shall be installed with a minimum of 3” of fall per 100’ toward maintenance holes and away from buildings.

E. If necessary, orange magnetically detectable warning tape shall be installed above the top of the duct bank, no less than 18” below ground level and no more than 5 feet below ground level.

F. Ducts shall be terminated into precast cutout locations.

G. Ducts penetrating manholes, precast handholes, and building entrance wall penetrations which do not land in a pull box, must be terminated flush to the wall(s) using bell ends.

H. Building entrance ducts which penetrate the floor must extend high enough up for installation of a bushing to protect the cable sheath from the edges of the conduits, but not much higher in order to allow for routing of cables leaving the conduits.

I. Duct shall be sealed around their outer edges with hydraulic cement to prevent leakage into manholes and handholes.

J. Unused ducts shall be plugged at both ends using compression type fittings.

K. Seal maintenance hole penetrations using hydraulic cement.

L. Installed Duct Penetration

1. Pull round wood or steel test mandrel of recommended size through each duct from both directions to remove obstructions.
2. Pass a wire brush mandrel and/or a rubber duct swab of appropriate size through each duct until all foreign materials and water are removed.
3. Locate wire shall be integrated in the fabric sub duct in one duct of each conduit run and terminate on collar of manholes for easy access.

END OF SECTION 27 05 28

SECTION 27 41 16 - INTEGRATED AUDIO VIDEO SYSTEMS AND EQUIPMENT

PART 1 - GENERAL

1.1 SCOPE OF WORK

A. This section includes the minimum requirements for the installation, configuration, and training of the audio visual components as depicted on the Drawings and required by these specifications.

B. These Specifications, together with the Drawings accompanying them, are intended to depict the installation requirements necessary to support this Project. Contractor shall furnish materials shown and/or called for on the Drawings but not mentioned in the Specifications, or vice versa, that are necessary for the installation and support of communications cabling, whether or not specifically called for in both. In addition, Contractor shall provide incidental equipment and materials required for the completion of systems included in this contract whether or not specified or shown on the drawings.

C. All required cabling infrastructure including back boxes and conduit to support the AV systems are provided and installed by others. Contractor is required to provide, install, test, and configure all cabling, equipment, and AV systems as described within this specification and as shown on the T-series drawings.

D. This section includes minimum requirements for the following:

1. Matrix Transmitter
2. Matrix Receiver Type 1
3. Matrix Receiver Type 2
4. HDMI to SDI Converter
5. Wireless Presentation Receiver
6. AV Matrix Switcher Type 1
7. AV Matrix Switcher Type 2
8. Video Router
9. AV Network Switch
10. Control Panel
11. Touch Panel Type 1
12. Touch Panel Type 2
13. Wireless Controller
14. Partition Sensor
15. Flat Panel Display
16. Flat Panel Display Mount
17. Bluetooth Receiver
18. Bluetooth Audio Expander
19. Network Audio Input Expander
20. Network Audio Output Expander
21. Wireless Microphone Receiver
22. Antenna Distribution System
23. Digital Signal Processor Type 1
24. Digital Signal Processor Type 2
25. Hearing Assistance System
26. Power Amplifier Type 1
27. Power Amplifier Type 2
28. Loudspeaker Type 1
29. Loudspeaker Type 2
30. Loudspeaker Type 3
31. Speaker Rigging Components
32. Power Conditioner
33. AV Equipment Rack Type 1

34. AV Equipment Rack Type 2
35. AV Equipment Rack Type 3
36. AV Equipment Rack Blanks
37. AV Equipment Rack Vents

1.2 QUALITY ASSURANCE

A. The following industry Standards are the basis for the audio-visual system described herein. The list is incorporated by this reference to them.

1. ANSI - American National Safety Institute
2. ASTM - American Society of Testing and Materials
3. EIA - Electronics Industries Association
4. FCC - Federal Communications Commission
5. NEMA - National Electrical Manufacturer's Association
6. OSHA - Occupational Safety and Health Administration
7. NEC - National Electric Code.
8. NFPA - National Fire Protection Association.
9. IEEE - Institute of Electrical and Electronics Engineers.
10. ISO - International Standards Organization.
11. UL - Underwriters Laboratories
12. Davis and Davis, Sound System Engineering (2nd Edition), Howard W. Sams, 1987
13. Giddings, Audio System Design and Installation (ASDI), Howard W. Sams, 1990

B. All cable and equipment shall be installed in a neat and workmanlike manner. All methods of construction that are not specifically described or indicated in the contract documents shall be subject to the control and approval of the Design 27 Project Manager. Equipment and materials shall be of the quality and manufacturer indicated. The equipment specified is based upon the acceptable manufacturers listed. Where "Or equal" is stated, equipment shall be equivalent in every way to that of the equipment specified and subject to approval.

C. Materials and work specified herein shall comply with the requirements of the local Authority Having Jurisdiction.

D. Contractor should have the following qualifications:

1. Experienced in the installation of systems similar in complexity and scale to those included within the scope of work. If requested, the Contractor shall provide the names, locations, and points of contact for at least three installations of the type and complexity specified herein.
2. Within the last two (2) years, installed an audio-visual system with similar equipment and functionality.
3. Have at least one (1) person on staff with CTS-I certification.

1.3 SUBMITTALS

A. Within 15 days after notice to proceed, submit manufacturers' catalog sheets, specifications and installation instructions for all products to be installed within the scope of work to verify that submitted components comply with Contract Documents.

B. Within 30 days after notice to proceed, submit one (1) set of electronic shop drawings for approval.

1. Provide the following within the shop drawings:

a. Floor plans, RCPs, section views, and details illustrating equipment location including, but not limited to, equipment racks, projection screens, connection panels, flat panel displays, and loudspeakers. Drawings should be at no less than 1/8”=1’-0” scale.
b. Detail wiring diagrams showing interconnection between equipment devices. Include cable labeling, cable types, connector types and termination details, wiring color codes, and equipment manufacturer and models.
c. Loudspeaker, video projector, projection screen, and flat panel mounting details including hardware type, material, and load capacity. For all equipment mounted overhead, mounting details and design calculations shall be signed and sealed by a professional structural engineer licensed to practice in the State of Indiana.
d. Dimensioned plate and panel details that are custom for the project. Details to include dimensioned locations of components, component type, engraving information, bill of materials, and plate finish and color.
e. Rack elevations showing equipment layout within racks with dimensions.
f. Wiring schedule showing source and destination of wiring and indicating whether wire is in conduit or cable tray.
g. Refer to section 27 05 00 part 1.6.B for additional requirements and clarification.

1.4 CLOSE-OUT DOCUMENTS

A. Provide close-out documents in accordance with the General Conditions unless otherwise indicated:

1. Provide the following for products incorporated into the final installation:

a. Manufacturer's data for each type of product. Include manufacturer’s serial numbers within the list of product.
b. Each products Owner/Instruction Manual. Provide high quality copies where necessary, with all text legible and illustrations of equal resolution and sharpness as the original manual. Faxed copies or copies with portions of the information missing or smeared not acceptable.

2. Provide as-built drawings depicting what is actually incorporated within the project delivered as electronic files. All text within drawings shall be legible.
3. Provide recorded test reports of Contractor commissioning.
4. Prepare and provide a complete and typical procedure for the operation of the equipment as a system including:

a. Describe the operation of system capabilities.
b. Assume the intended reader of the manual to be technically inexperienced and unfamiliar with this facility.

5. Any other pertinent data generated during the project or required for future service.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Equipment and components shall arrive onsite properly protected and undamaged with containers, packaging and labels intact.

B. Store, handle and protect materials and equipment in accordance with Manufacturer's recommendations.

C. Store materials and equipment in dry, environmentally controlled space. Do not install equipment and materials until spaces are enclosed, watertight, and dry. Protect equipment from dust and other airborne materials.

D. Provide additional protection during handling as necessary to prevent breaking, scraping, marring, or otherwise damaging products or surrounding areas.

E. Protect all equipment and components that are to be installed within this project from theft, vandalism, and exposure to rain, freezing temperatures and direct sunlight.

F. Protect installed equipment and components from damage and prevent use by unauthorized persons.

1.6 WARRANTY

A. The Contractor shall warrantee the completed work for a period of one (1) year, from the date of acceptance of the work, to be free of defect in design, workmanship, or material.

B. Contractor shall repair, adjust, and/or replace, whichever the Owner determines to be in its best interests, any defective equipment, materials, or workmanship, as well as such parts of the work damaged or destroyed by such defect, during the warranty period, at the Contractor's sole cost and expense. If parts or components need to be repaired, then a loaner will be supplied and installed until the part or component can be repaired and reinstalled.

C. All service work shall be performed by manufacturer certified technicians.

D. Contractor to provide Owner a phone number for technical support. All support calls shall be answered within twenty-four (24) hours. All repairs shall be underway within forty-eight (48) hours and completed (or loaner supplied) within seven (7) days.

E. At the end of the warranty period, the Contractor shall complete one (1) site visit to evaluate the status of the audio-visual systems. All equipment within this scope of work found to be defective shall be replaced at no cost to the Owner.

F. Guarantees of material, equipment, and workmanship running in favor of the Contractor shall be transferred and assigned to the Owner on completion of the work and acceptance of said work by the Owner.

PART 2 - PRODUCTS

2.1 MATRIX TRANSMITTER

A. Shall meet or exceed the following specifications:

1. Shall be capable of accepting digital video input.
2. Shall be capable of transmitting audio and video over STP cabling.
3. Shall have a minimum of one (1) HDMI input.
4. Shall have a minimum of one (1) STP output.
5. Shall support resolutions up to and including 1920x1200 or higher.
6. Shall be HDCP compliant.
7. Shall be single-gang decora.
8. Coordinate color with architect.
9. Acceptable Manufacturers:

    a. Crestron DM-TX-4KZ-100-C-1G-B-T

b. Or Equal

2.2 MATRIX RECEIVER TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall be capable of distributing digital video.
2. Shall have a STP cabling input.
3. Shall have a minimum of one (1) HDMI output with RS-232 control.
4. Shall support resolutions of up to and including 1920x1200 or higher.
5. Shall be HDCP compliant.
6. Acceptable Manufacturers:

a. Crestron DM-RMC-4KZ-100-C
b. Or Equal

2.3 MATRIX RECEIVER TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall be capable of distributing digital video.
2. Shall have a HDBaseT cabling input.
3. Shall have a minimum of one (1) HDMI output with RS-232 control.
4. Shall support resolutions of up to and including 1920x1200 or higher.
5. Shall be HDCP compliant.
6. Acceptable Manufacturers:

a. AVPro Edge AC-EX70-444-RNE
b. Or Equal

2.4 HDMI TO SDI CONVERTER

A. Shall meet or exceed the following specifications:

1. Shall have at least one (1) HDMI input.
2. Shall have at least one (1) minimum 3G-SDI output.
3. Shall have an AC power supply.
4. Shall support resolutions of up to and including 1920x1200 or higher.
5. Shall be HDCP compliant.
6. Acceptable Manufacturers:

a. Blackmagic Design
b. Decimator Design
c. AJA
d. Or Equal

2.5 WIRELESS PRESENTATION RECEIVER

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of one (1) RJ-45 LAN connection.
2. Shall have a minimum of one (1) HDMI output.
3. Shall have a minimum of one (1) USB 2.0 host type A.
4. Shall support resolutions of up to and including 1920x1080 or higher.
5. Shall support Miracast.

6. Shall be capable of a minimum of two (2) simultaneous users at once.
7. Provide necessary adapters and accessories as required.
8. Acceptable Manufacturers:

    a. Airtame 2
    b. AirCord
    c. Airtame Ethernet Adapter

2.6 AV MATRIX SWITCHER TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of two (2) HDMI inputs.
2. Shall have a minimum of twelve (12) STP inputs.
3. Shall have a minimum of twelve (12) STP outputs.
4. Shall have a minimum of two (2) balanced stereo audio outputs.
5. Shall support resolutions up to and including 1920x1200 or higher.
6. Shall have a minimum of one (1) RJ-45 LAN or RS-232 connection for control.
7. Shall be HDCP compliant.
8. Acceptable Manufacturers:

    a. Crestron DM-MD16X16-CPU3 with required input and output cards
    b. Or Equal

2.7 AV MATRIX SWITCHER TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of two (2) HDMI inputs.
2. Shall have a minimum of three (3) HDBaseT outputs.
3. Shall have a minimum of one (1) HDMI output.
4. Shall have a minimum of one (1) balanced stereo audio output.
5. Shall support resolutions up to and including 1920x1200 or higher.
6. Shall have a minimum of one (1) RJ-45 LAN or RS-232 connection for control.
7. Shall be HDCP compliant.
8. Acceptable Manufacturers:

    a. AVPro Edge AC-MX-44HDBT
    b. Or Equal

2.8 VIDEO ROUTER

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of twelve (12) 3G-SDI inputs.
2. Shall have a minimum of twelve (12) 3G-SDI outputs.
3. Shall support formats up to and including 1080p at 60 Hz
4. SDI connections shall support 24 bit 48kHz audio sampling
5. Shall have a minimum of one (1) reference input and one (1) reference output
6. Shall have a minimum of one (1) RJ-45 LAN
7. Acceptable Manufacturers:

    a. Blackmagic Design Videohub 20x20 12G
    b. AJA KUMO 1616
    c. Or Equal

2.9 AV NETWORK SWITCH

A. Shall meet or exceed the following specifications:

1. Shall have quantity of Ethernet ports required to support audio-visual systems as shown on the T-series drawings.
2. Shall be manageable.
3. Shall be 1RU rack mountable.
4. Acceptable Manufacturers:

    a. Q-SYS NS Series Gen 2
    b. Or Equal

2.10 CONTROL PANEL

A. Shall meet the following specifications:

1. Shall have one (1) RS-232 connection.
2. Shall be able to control the following functionality: volume up/down, source selection, and system power on/off.
3. Shall have a minimum of eight (8) programmable buttons.
4. Provide power supply as required.
5. Acceptable Manufacturers:

    a. Crestron BPC-8
    b. Or Equal

2.11 TOUCH PANEL TYPE 1

A. Shall meet the following specifications:

1. Shall have ethernet monitoring and control.
2. Shall have a capacitive touch screen interface.
3. Shall have a resolution of 1920x1200.
4. Shall be 10.1” diagonal.
5. Shall have a contrast ratio of 800:1
6. Provide all necessary hardware and brackets required for installation as shown on the T-series drawings.
7. Confirm color with architect.
8. Acceptable Manufacturers:

    a. Q-SYS TSC-101-G3
    b. Or Equal

2.12 TOUCH PANEL TYPE 2

A. Shall meet the following specifications:

1. Shall have ethernet monitoring and control.
2. Shall have a capacitive touch screen interface.
3. Shall have a resolution of 1280x800.
4. Shall be 7” diagonal.
5. Shall have a contrast ratio of 850:1
6. Provide all necessary hardware and brackets required for installation as shown on the T-series drawings.

7. Confirm color with architect.
8. Acceptable Manufacturers:

    a. Q-SYS TSC-70-G3
    b. Or Equal

2.13 WIRELESS CONTROLLER

A. Shall meet the following specifications:

1. Shall have a minimum 10” diagonal screen.
2. Shall have a minimum resolution of 1920 x 1080.
3. Shall support capacitive touch interface.
4. Shall support Q-SYS control application. Contractor shall be responsible for providing and configuring control applications.
5. Shall communicate wirelessly with AV control system.
6. Acceptable Manufacturers:

    a. Apple
    b. iPort Luxeport Base
    c. iPort Luxeport Sleeve compatible with wireless controller
    d. Or Equal

2.14 PARTITION SENSOR

A. Shall meet the following specifications:

1. Provide all hardware and mounting brackets to monitor overhead garage door.
2. Shall utilize diffuse reflective beaming.
3. Shall have adjustable IR sensitivity.
4. Shall utilize GPIO connectivity.
5. Include transmitter and receiver for partition sensor.
6. Acceptable manufacturers:

    a. Lutron GrafikEye GRX-IRPS-WH
    b. Or Equal

2.15 FLAT PANEL DISPLAY

A. Shall meet or exceed the following specifications:

1. Shall support resolutions up to and including 1920x1080p, 60 Hz.
2. Shall be LED Backlit.
3. Shall have a minimum contrast ratio of 5000:1.
4. Shall have a minimum brightness of 350 cd/m^2
5. Shall be RS-232 controllable.
6. Shall be commercial grade. Consumer grade displays are not acceptable.
7. Shall have integrated smart TV app compatibility (i.e. youtube app).
8. “MON” (Monitor locations within the T-series drawings) displays shall be 18/5 rated.
9. “DS” (Digital Signage locations within the T-series drawings) displays shall be 24/7 rated.
10. Reference T-series drawings for display sizes.
11. Reference AV diagrams for locations where panels are to be installed.
12. Acceptable Manufacturers:

    a. Samsung

b. LG
c. Sony
d. Panasonic
e. Or equal

2.16 FLAT PANEL DISPLAY MOUNT

A. Shall meet or exceed the following specifications:

1. Shall support weight of associated display.
2. Shall be non-articulating mount.
3. Shall have an adjustable tilt of +5 or -20 degrees.
4. Shall provide access to backbox without removing mount.
5. Mount shall be selected to ensure total depth of flat panel display and mount does not exceed 4” from the wall.
6. Acceptable Manufacturers:

a. Chief
b. Peerless-AV
c. AvTeq
d. Or equal

2.17 BLUETOOTH RECEIVER

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of one (1) STP output.
2. Shall support playback of WAV, MP3, and AAC files.
3. Shall provide Bluetooth capability.
4. Shall provide push button to sync device to Bluetooth.
5. Shall come in a wall plate form factor.
6. Confirm color/finish with architect.
7. Acceptable Manufacturers:

a. Q-SYS Axiom BT1
b. Or Equal

2.18 BLUETOOTH AUDIO EXPANDER

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of one (1) STP input.
2. Shall have a minimum of one (1) balanced stereo analog audio output.
3. Shall support playback of WAV, MP3, and AAC files.
4. Acceptable Manufacturers:

a. Q-SYS Axiom AXPio
b. Or Equal

2.19 NETWORK AUDIO INPUT EXPANDER

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of four (4) line level inputs.
2. Shall convert analog audio to networked audio.

3. Shall be daisy-chainable to other modules.
4. Shall be rack mountable.
5. Acceptable Manufacturers:

    a. Q-SYS QIO-ML4i
    b. Or Equal

2.20 NETWORK AUDIO OUTPUT EXPANDER

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of four (4) line level outputs.
2. Shall convert networked audio to analog audio.
3. Shall be daisy-chainable to other modules.
4. Shall be rack mountable.
5. Acceptable Manufacturers:

    a. Q-SYS QIO-L4o
    b. Or Equal

2.21 WIRELESS MICROPHONE RECEIVER

A. Shall meet or exceed the following specifications:

1. Shall utilize a 64 MHz bandwidth
2. Shall provide digital predictive switching for true diversity.
3. Shall have up to 60 frequency presets available.
4. Shall provide automatic frequency scanning.
5. Transmitters and receivers shall utilize a metal housing.
6. Coordinate operating frequency with local RF environment.
7. Acceptable Manufacturers:

    a. Shure QLXD4
    b. Shure QLXD2/SM58 (Quantity: 2 per receiver)
    c. Shure SB900B Rechargeable Battery (Quantity: 1 per device)
    d. Shure SBC200 Dual Charging Case (Quantity: 1 per every 2 handheld mics)
    e. Shure QLXD1 (Quantity: 1 per receiver)
    f. Shure WH20 (Quantity: 1 per receiver)
    g. Shure UA8 (Quantity: 2 per receiver)
    h. Or Equal

2.22 ANTENNA DISTRIBUTION SYSTEM

A. Shall meet or exceed the following specifications:

1. Shall operate in the 470 MHz to 690 MHz radio frequency range
2. Shall have a minimum of one (1) BNC RF input per channel
3. Shall have a minimum of four (4) BNC RF outputs per channel
4. Shall have a minimum of four (4) DC power outputs for compatible wireless audio transmitters or receivers
5. All BNC RF outputs and inputs shall have 50 ohm impedance
6. Shall have a metal housing.
7. Provide necessary adapters and accessories as required. Refer to the T-series drawings.
8. Acceptable Manufacturers:

1) Shure UA844+SWB/LC
2) Shure UA834WB in-line antenna amplifier
3) Shure UA8 omni antenna
4) Shure U874US directional antenna
5) Or equal

2.23 DIGITAL SIGNAL PROCESSOR TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of eight (8) channels of balanced inputs, and eight (8) channels of balanced outputs with AEC.
2. Shall provide an open architecture for signal routing.
3. Shall support a minimum of 32x32 channels of Dante audio capability.
4. Shall have VoIP interface.
5. Shall have a maximum input level of +24dBu and maximum output level of +20 dBU
6. Shall have a minimum dynamic range of 108dB
7. Shall have a minimum frequency response range of 20Hz – 20000Hz
8. Control software to include, but not limited to: matrix mixers, limiters, gain adjustment, delay, parametric equalizers, crossovers, and compressors.
9. Provide Dante licensing as required.
10. Acceptable Manufacturers:

    a. QSC Core 110f
    b. Or Equal

2.24 DIGITAL SIGNAL PROCESSOR TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of eight (8) balanced flex channels (input or output) with AEC.
2. Shall provide an open architecture for signal routing.
3. Shall support a minimum of 32x32 channels of Dante audio capability.
4. Shall have VoIP interface.
5. Shall have a maximum input level of +24dBu and maximum output level of +20 dBU
6. Shall have a minimum dynamic range of 108dB, 20Hz – 20000Hz
7. Control software to include, but not limited to: matrix mixers, limiters, gain adjustment, delay, parametric equalizers, crossovers, and compressors.
8. Provide Dante licensing as required.
9. Acceptable Manufacturers:

    a. QSC Core 8 Flex
    b. Or Equal

2.25 HEARING ASSSITANCE SYSTEM

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of one (1) balanced XLR audio input and one (1) unbalanced stereo RCA input.
2. Shall have an internal audio compressor.
3. Shall have an operating frequency of 216MHz.
4. Shall have a maximum output power of 100mW.
5. Provide remote antenna as shown on the T-series drawings.
6. Provide quantity and type of receivers to meet ADA requirements.

7. Provide charging carrying case to accommodate all receivers.
8. Acceptable Manufacturers:

    1) Listen Tech LT-800-216
    2) Listen Tech LA-122
    3) Listen Tech LR-4200-216 (Quantity: 8)
    4) Listen Tech LA-164 (Quantity: 8)
    5) Listen Tech LA-165 (Quantity: 8)
    6) Listen Tech LA-438 (Quantity: 8)
    7) Listen Tech LA-311 (Quantity: 1)
    8) Listen Tech LA-362 (Quantity: 8)
    9) Or equal

2.26 POWER AMPLIFIER TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall have a minimum continuous power rating of 200 watts into 70 volts per channel.
2. Shall provide two channels of high impedance amplification in bridged mono.
3. Shall provide protection of circuit components in the event of over-drive, output overload, or short circuits.
4. Shall have a maximum of 0.1% THD from 20Hz – 20000Hz.
5. Shall have a signal to noise ratio of at least 100dB.
6. Shall have a maximum input level of +20dBu.
7. Acceptable Manufacturers:

    a. Extron XPA U 1004 SB
    b. Or equal

2.27 POWER AMPLIFIER TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall have a continuous power rating of a minimum of 1250 watts into an 8 ohm or 70V load per channel.
2. Shall provide four channels of amplification.
3. Shall provide protection of circuit components in the event of over-drive, output overload, or short circuits.
4. Shall have a maximum of 0.05% THD from 20Hz – 20000Hz.
5. Shall have a signal to noise ratio of at least 106dB.
6. Shall have a maximum input level of +27dBu.
7. Acceptable Manufacturers:

    a. QSYS CX-Q 4K4
    b. Or equal

2.28 LOUDSPEAKER TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall be a two-way configuration with an 8” LF driver and 32mm dome tweeter.
2. Shall have a coverage pattern of 115º conical.
3. Shall have a nominal continuous power handling of no less than 175W at 7 ohms.
4. Shall have a sensitivity of no less than 94dB.
5. Shall have a frequency response of 75Hz – 20000Hz ±10dB.

6. Shall have 70V tap. Tap loudspeaker as shown on T-series drawings.
7. Provide all necessary hardware and brackets required for installation.
8. Verify color with Architect.
9. Acceptable Manufacturers:

    a. Biamp DX-IC8
    b. Or equal

2.29 LOUDSPEAKER TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall be a two-way coaxial configuration with a 5.25” LF driver and two 0.75” splayed dome tweeters.
2. Shall have a coverage pattern of 180º conical.
3. Shall have a power rating of no less than 100W.
4. Shall have a sensitivity of no less than 88dB.
5. Shall have a frequency response of 68Hz – 18000Hz ±3dB.
6. Shall have 70V tap. Tap loudspeaker as shown on T-series drawings.
7. Provide all necessary hardware and brackets required for installation.
8. Coordinate color and finish with the architect.
9. Acceptable Manufacturers:

    a. JBL Control HST
    b. Or equal

2.30 LOUDSPEAKER TYPE 3

A. Shall meet or exceed the following specifications:

1. Shall be a two-way coaxial configuration with a 12” LF driver and a 1.4” HF driver.
2. Shall have a coverage pattern of 90º H x 90º V.
3. Shall have a power rating of no less than 600W.
4. Shall have a sensitivity of no less than 94dB.
5. Shall have a frequency response of 36Hz – 19000Hz ±3dB.
6. Shall be IP55 outdoor rated.
7. Provide all necessary hardware and brackets required for installation.
8. Coordinate color and finish with the architect.
9. Acceptable Manufacturers:

    a. Biamp IP6-1122WR/99
    b. Or equal

2.31 SPEAKER RIGGING COMPONENTS

A. Contractor shall provide and install speaker rigging components as necessary to mount main loudspeakers as shown on the T-series drawings.

B. Structural support members to have a safety factor of at least 5. Mounting hardware and wire rope to have a safety factor of 8. All fasteners to be graded and certified for use in the intended applications. Overhead suspension hardware shall comply with ASME B30.20 standards and all applicable local building and safety codes.

C. Overhead suspension hardware must be of a type that includes product traceability controls.

D. Rigging, mounting and support systems for loudspeakers shall be designed and sealed by a registered professional engineer licensed to practice in the State of Indiana. Once the systems are installed, the engineer shall physically inspect the methods and means used to verify compliance with the original design.

E. Loudspeaker Rigging Components shall meet or exceed the following specifications:

1. Loudspeaker Rigging Components shall be made of quenched or tempered forged steel.
2. Loudspeaker Rigging Components shall meet or exceed all the requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements
3. Loudspeaker Rigging Components shall be hot dip galvanized or self-colored.
4. Shackles shall meet the performance requirements of Federal Specification RR-C-271D Type IVA, Grade A, Class1.
5. Turnbuckles shall meet the performance requirements of Federal Specifications FF-T-791b, Type 1 Form 1 - CLASS 4, and ASTM F-1145.
6. Wire rope thimble shall meet the performance requirements of Federal Specification FF-T-276b Type II.
7. Wire rope shall be sized as 7x19 utility cable.
8. Provide all screw pin type shackles with mouse wire.
9. All end fittings shall be moused to the body with mousing cable.
10. Select size of product based working load limits required.
11. Confirm final product selection with architect.
12. Acceptable product:

    a. Chicago Hardware Company
    b. Crosby Group
    c. Wire Rope Corporation of America (WRCA)
    d. Or Equal

2.32 POWER CONDITIONER

A. Shall meet or exceed the following specifications:

1. Shall include nine (9) outlets.
2. Shall be capable of handling 20A circuits.
3. Shall be rack-mountable.
4. Reference AV diagrams for the required amount of power conditioners per AV equipment rack.
5. Acceptable Manufacturers:

    a. Furman PL-PRO DMC
    b. Or equal

2.33 AV EQUIPMENT RACK TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall have 35 units of available rack space.
2. Shall have 16-gauge steel construction with black textured powder coat finish.
3. Shall have locking, vented doors, side panels, and fans.
4. Shall have an overall depth of 22” and useable depth of 20”.
5. Shall be constructed to swing open for cabling access.
6. Shall have a large 12.5” x 12.5” knockout at the rear along with additional knockouts in the sides of the racks.

7. Acceptable Manufacturers:

    a. Middle Atlantic DWR-35-22
    b. Or Equal

2.34 AV EQUIPMENT RACK TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall have 37 units of available rack space.
2. Shall have 16-gauge steel construction with black textured powder coat finish.
3. Shall have locking, vented doors, side panels, and fans.
4. Shall have an overall depth of 32.875” and useable depth of 26”.
5. Shall be constructed to rotate and roll out.
6. Shall slide out a minimum of 26” and rotate a minimum of 60 degrees
7. Acceptable Manufacturers:

    a. Middle Atlantic WR-37-32
    b. Or Equal

2.35 AV EQUIPMENT RACK TYPE 3

A. Shall meet or exceed the following specifications:

1. Shall have 44 units of available rack space.
2. Shall have 16-gauge steel construction with black textured powder coat finish.
3. Minimum overall height of 83.125” with a minimum open rack mounting space of 77.125”
4. Shall have an overall depth of 26.4” and useable depth of 24”.
5. Shall have locking, vented doors, side panels, and fans.
6. Shall be mounted to the floor.
7. Acceptable Manufacturers:

    a. Middle Atlantic MRK 4426
    b. Or Equal

2.36 EQUIPMENT RACK BLANKS

A. Contractor to provide equipment rack blanks where required as shown on T-series drawings.

B. Shall meet or exceed the following specifications:

1. Shall have a flanged construction.
2. Shall be made of 1/16” thick aluminum.
3. Shall have a black brushed and anodized finish.
4. Provide rack blank sizes as required.
5. Acceptable Manufacturers:

    a. Middle Atlantic BL Series
    b. Or Equal

2.37 EQUIPMENT RACK VENTS

A. Contractor to provide equipment rack vents where required as shown on T-series drawings.

B. Equipment rack vents shall meet or exceed the following specifications:

1. Shall have a flanged construction.
2. Shall be made of 1/16” thick aluminum.
3. Shall have a black brushed and anodized finish.
4. Provide rack vent sizes as required.
5. Acceptable Manufacturers:

a. Middle Atlantic VTP Series
b. Or Equal

PART 3 - EXECUTION

3.1 GENERAL

A. Coordinate incorporation of the Work specified herein with other project work to facilitate a cohesive final product.

B. The installation recommendations contained within ANSI and Telecommunications Distribution Methods Manual are mandatory minimum standards and requirements.

C. Mount equipment and enclosures plumb and level.

D. Permanently installed equipment to be firmly and safely held in place. Design equipment supports to support loads imposed with a safety factor of at least five. Seismic bracing shall be installed on appropriate equipment where local codes require such installation.

E. Verify all locations of equipment in all rooms with Owner’s Representative, Owner, and Consultant.

F. Follow all manufacturer requirements and recommendations for the installation of all AV equipment.

3.2 TESTING

A. Prior to turning on the system, verify all electronic devices are properly grounded and each audio video AC receptacle has the proper hot, neutral, and ground connections.

B. Audio Testing:

1. Verify each amplifier channel is correctly wired by providing a test signal to each channel and verify the correct speakers are operating.
2. Adjust the input and output gain of each device to properly set the system gain.
3. Adjust the output level of each amplifier channel and/or speaker tap settings to achieve 85 dB ± 2 dB in the area covered by the respective speaker zone when the output of the sound reinforcement system is set to 0 dBu.
4. Equalize all loudspeakers to provide an acceptable frequency response based on the specifications of the provided loudspeakers.
5. Verify no hum or buzz is present in the system at all operating levels. If present, propose a resolution and correct the issue at no cost to the Owner.

C. Video Testing:

1. Using a video signal generator, verify performance of all equipment meets manufacturer's specifications.
2. Verify correct operation of all inputs and outputs
3. Flat panel displays shall be set up by the contractor for immediate usage by the Owner once system is commissioned.

3.3 AUDIO VIDEO CONTROL SYSTEM

A. Control system shall be programmed to at a minimum switch between available AV sources, power on/off video displays, raise/lower projection screen, control system volume, and control zone selection of audio where applicable.

B. Contractor to provide a minimum of three iterations of the touchscreen layout and programming for review by the Owner and Consultant. The first phase will involve only the layout and proposed operation. Once reviewed, the Contractor will utilize this information to begin programing the touch panels. The touch panels will be reviewed again after the programming has been implemented in the field. Any changes from this phase shall be incorporated into the work. Final review will occur at the one year walk-through.

C. Control system and room type functionality shall be programmed at a minimum as described below:

1. NATATORIUM

   a. All natatorium loudspeakers were designed to be wired from a dedicated amplifier channel to comply with Manufacturer specifications.
   b. A minimum five (5) foot service loop shall be provided and secured above each speaker.
   c. Confirm all rigging with structural engineer as required.
   d. Control system shall be programmed to at a minimum switch between available audio sources, control system volume, and control zone selection of audio.
   e. Contractor shall be required to program and set up audio controls with the Q-SYS software to control the audio system.
   f. Shall include two (2) custom programmed wireless controllers
   g. Shall include two (2) custom programmed touch panels, one (1) wall mounted in the south control room and one (1) wall mounted in the north control room.
   h. Video and audio shall be routed into or out of the AV equipment room via SDI and XLR connections found in the south control room, the north control room, and the four (4) AV floor boxes installed throughout the pool seating area. SDI connections are routed through a SDI video router installed in the AV equipment room, and XLR connections are routed over the AV network via the AV network switch installed in the AV equipment room AV rack.
   i. One HDMI input in the south control room and one HDMI input in the north control room are routed up to the AV equipment room and terminated in the AV rack. An HDMI patch cable will need to be provided by the owner to route any input plugged in at these locations into the natatorium video displays provided by others.
   j. Shall include four (4) wireless microphones for voice reinforcement.
   k. Audio extracted from either Bluetooth audio expander will be routed to the DSP along with any active wireless microphones. All audio will be summed, mixed, and processed. The audio mix from the DSP will be routed out of the DSP in two zones. Audio will be fed to all three (3) power amplifiers via the AV network. Zone 1 will feed the six (6) loudspeakers covering the north side swimming area of the natatorium, and zone 2 will feed the four (4) loudspeakers covering the south side diving portion of the natatorium.

l. Shall tie into the paging system to automatically mute audio and play the page as it comes in.
m. The DSP, amplifiers, video router, network audio input and output expanders, and touch panels shall all be connected to the AV switch installed in the AV rack, and the AV switch shall be connected to the building network.

2. SCIENCE LABS

a. Shall include two (2) custom programmed wireless controllers, one for each science lab.
b. Shall include one (1) custom programmed touch panel installed in the AV rack.
c. When both divisible garage doors between science labs are open, audio visual functionality shall be programmed to switch between all eight student workstation HDMI inputs, the four teacher station HDMI inputs, and both wireless presentation receivers via the touch panel or wireless controllers. The desired input shall be sent to the student workstation flat panel displays as well as the teacher workstation flat panel displays on mobile carts or a combination of displays available to the user in both science labs.
d. When both divisible garage doors between science labs are open, all loudspeakers in both science labs will be combined and amplify audio content from any active HDMI input in either science lab
e. When one or both of the divisible garage doors between science labs are closed, audio visual functionality shall be programmed to only switch between the four student workstation HDMI inputs, the two teacher station HDMI inputs, and the wireless presentation receiver in each science lab via the touch panel or wireless controllers. The desired input shall be sent to the student workstation flat panel displays as well as the teacher workstation flat panel displays on mobile carts or a combination of displays available to the user in each science lab.
f. When one or both divisible garage doors between science labs are closed, each set of loudspeakers will unlink, and will only amplify audio content from the active input in the lab in which they are installed.
g. Shall include two (2) wireless microphones per science lab for voice reinforcement.
h. Audio shall be extracted from the AV matrix switcher, dependent on the active input in each lab, and then routed to the DSP. Any active wireless microphones will also be routed to the DSP, and then summed, mixed, and processed. There shall either be one audio mix or two audio mixes sent to the power amplifier depending on the state of the garage door partition sensors. The audio mix from each science lab shall be routed out of the DSP and injected into separate power amplifier channels which in turn will feed the eight (8) loudspeakers installed in each lab.
i. Shall tie into the paging system to automatically mute audio and play the page as it comes in.
j. The AV matrix switcher, DSP, wireless presentation receivers, network audio input expander, and touch panel shall all be connected to the AV switch installed in the AV rack, and the AV switch shall be connected to the building network.
k. All wall mounted flat panel displays in each science lab shall be connected to the building network.

3. ATRIUM

a. Shall include two (2) custom programmed wireless controllers.
b. Shall include one (1) custom programmed touch panel installed in the AV rack.
c. Video inputs shall be programmed to switch between the terminated HDMI input mounted in the rack and the wireless presentation receiver via the touch panel or the wireless controllers. The desired input shall be sent to the three wall mounted

flat panel displays or a combination of those three displays located on the west side of the atrium

d. SDI output connector shall be terminated and mounted in the J138 AV rack for broadcast applications as determined by the Owner.
e. Shall include four (4) wireless microphones for voice reinforcement.
f. XLR input and output connectors shall be terminated and mounted in the J138 AV rack for music playback, voice reinforcement, recording, and broadcast applications as determined by the Owner.
g. Audio shall be extracted from the AV matrix switcher, dependent on the active input, and then routed to the DSP. Any active wireless microphones will also be routed to the DSP, and then summed, mixed, and processed. The audio mix will be routed out of the DSP and into the power amplifier feeding two zones. The four (4) speakers located on the west side of the atrium will be zone one and the five (5) speakers on the east side of the atrium will be zone two.
h. Shall tie into the paging system to automatically mute audio and play the page as it comes in.
i. The AV matrix switcher, DSP, wireless presentation receiver, network audio input expander, and touch panel shall all be connected to the AV switch installed in the AV rack, and the AV switch shall be connected to the building network.
j. All wall mounted flat panel displays throughout the atrium shall be connected to the building network.

4. TYPICAL FLEX J140 AND J234, SMALL GROUP ROOMS, CONFERENCE ROOM J126

a. Shall include one (1) control panel to be connected to the flat panel display via RS-232
b. Shall include one (1) wireless presentation receiver to be connected to the flat panel display via a USB-C to HDMI cable provided by the manufacturer
c. The wireless presentation receiver and the flat panel display shall be connected to the building network

5. TYPICAL CLASSROOM

a. Shall include one (1) wireless presentation receiver to be connected to the flat panel display via a USB-C to HDMI cable provided by the manufacturer
b. The wireless presentation receiver shall be connected to the building network. Provide a minimum 15’ category 6 patch cord for Owner connection to the building network.

6. OFFICE L104

a. Shall include one (1) wireless presentation receiver to be connected to the flat panel display via a USB-C to HDMI cable provided by the manufacturer
b. The wireless presentation receiver and the flat panel display shall be connected to the building network

3.4 TRAINING

A. After final completion, provide instruction to Owner designated personnel.

B. Provide a minimum of ten (10) hours of training to the Owner. Training session(s) shall cover the following topics at a minimum:

1. System Equipment Connectivity

2. Device Configurations
3. Operation, maintenance, and upgrade procedures.

C. Training to be arranged with Owner personnel. Training schedule shall be coordinated with Owner personnel and their needs.

D. Training to occur in maximum of 2-hour increments per personnel or groups of personnel.

E. Training plan, timeline, and agenda shall be provided to Owner and signed off by Owner and Contractor.

F. Warranty certificate and agreement shall be provided to Owner at initial training session.

G. Provide a digital video copy of the training sessions.

3.5 SYSTEM ACCEPTANCE

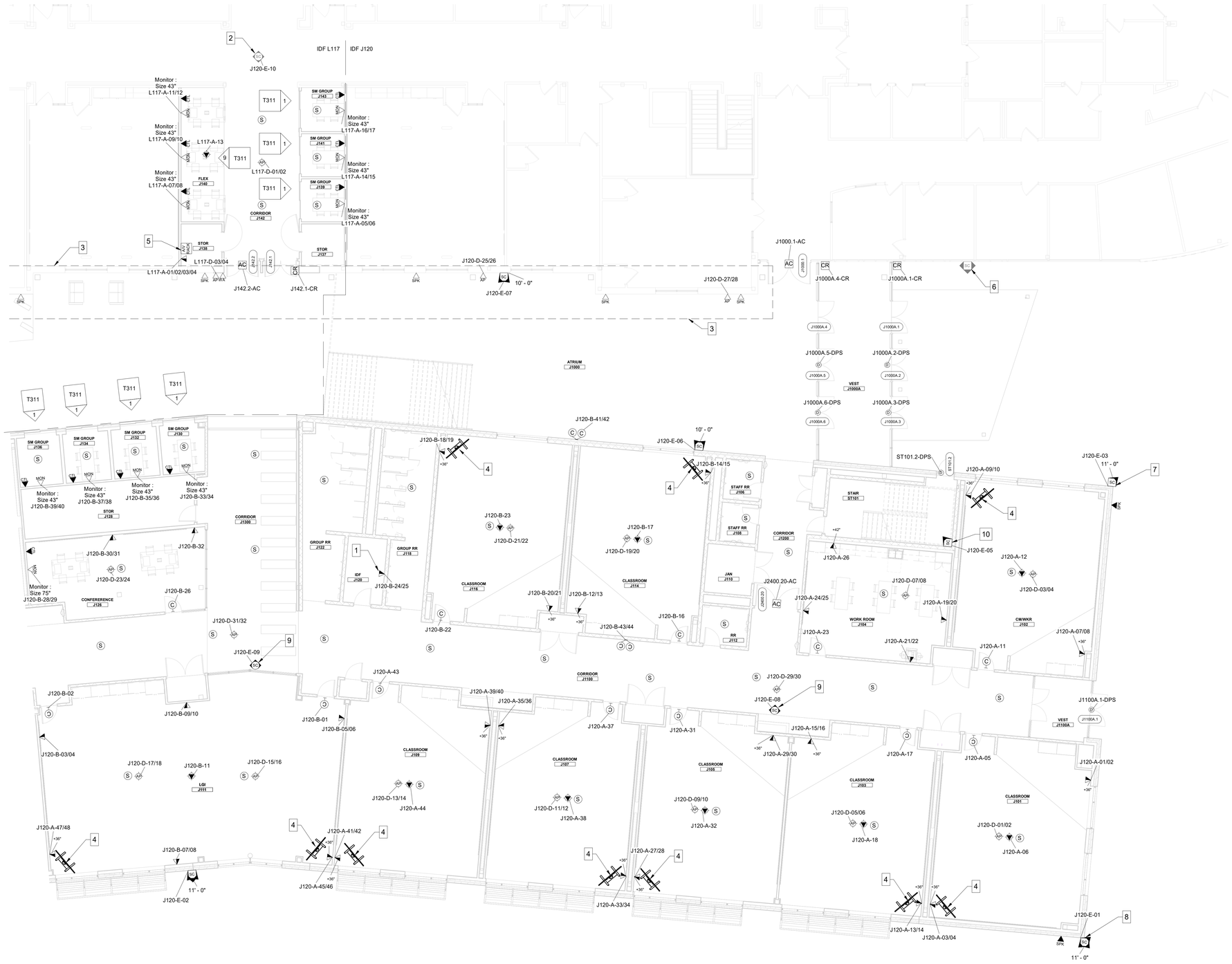
A. Contractor shall demonstrate to the Owner and Architect that all systems have been installed per the plans and specifications and that all programming functions, display functions, control functions and all interfaced equipment operate as expected.

B. Contractor shall demonstrate to the Owner and Architect that all the end user staff has a working knowledge of how to operate the installed equipment and that the facilities staff also has a working knowledge of the troubleshooting methods for non-critical service problems.

C. Contractor shall have a Delivery and Acceptance form signed by the Owner representative, agreeing that the installation is complete and its operation is acceptable except as noted on the Delivery and Acceptance form. This will also serve as the start of the warranty period.

D. Contractor shall work with the General Contractor to complete all punch lists and work required to allow the General Contractor to close out the project in a timely manner. This will include but not limited to any work that would impact any final inspection for turnover of the building.

END OF SECTION 27 41 16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L117-A-13
L117-D-01/02
Monitor : Size 43" L117-A-16/17
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FLEX J140
CORRIDOR J142
STOR J138
STOR J137
L117-D-03/04
L117-A-01/02/03/04
J142.2-AC
J142.1-CR
J120-D-25/26
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J120-D-27/28
J1000.1-AC
J1000A.4-CR
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J1000A.6-DPS
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J120-B-17
STAFF RR J106
STAIR ST101
CORRIDOR J1000
J120-A-26
J120-E-05
J120-A-12
J120-D-03/04
GROUP RR J122
GROUP RR J119
IDF J120
J120-B-24/25
CLASSROOM J116
CLASSROOM J114
JAN J110
J2400.20-AC
J120-B-20/21
J120-B-12/13
J120-B-43/44
J120-B-16
J120-A-24/25
J120-D-07/08
J120-A-19/20
WORK ROOM J104
CM/WKR J102
IDF J112
J120-A-23
J120-A-21/22
J120-A-11
J120-A-07/08
J120-D-31/32
J120-E-09
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CORRIDOR J1100
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J120-A-15/16
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J1100A.1-DPS
VEST J1100A
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J120-A-41/42
J120-A-45/46
J120-A-27/28
J120-A-33/34
J120-A-13/14
J120-A-03/04
J120-E-01
SM GROUP J136
SM GROUP J134
SM GROUP J132
SM GROUP J130
SM GROUP J143
SM GROUP J141
SM GROUP J139
Monitor : Size 43" J120-B-39/40
Monitor : Size 43" J120-B-37/38
Monitor : Size 43" J120-B-35/36
Monitor : Size 43" J120-B-33/34
STOR J135
J120-B-30/31
J120-B-32
J120-D-23/24
Monitor : Size 75" J120-B-28/29
CONFERENCE J126
J120-B-26
J120-D-31/32
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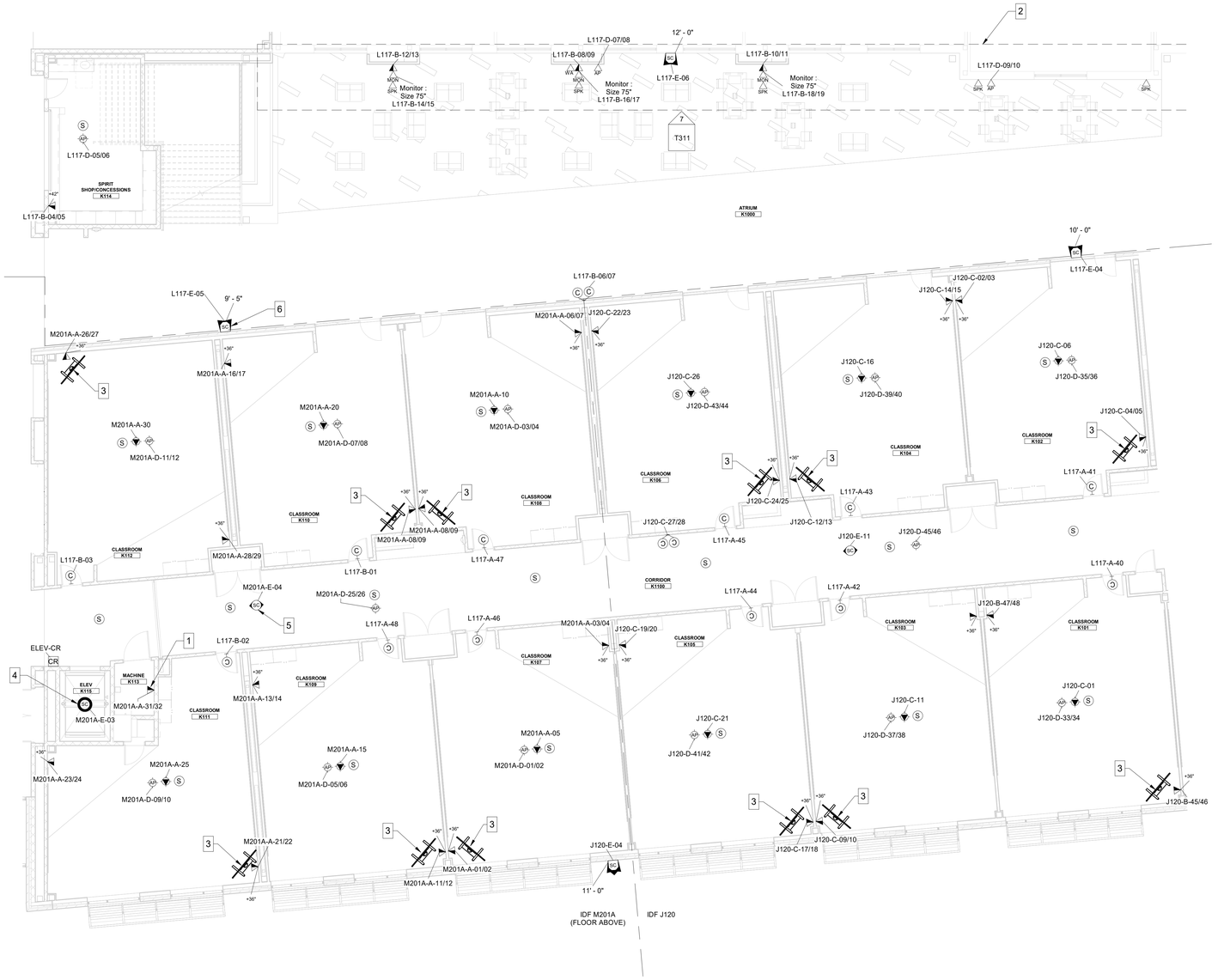

1 FIRST FLOOR TECHNOLOGY PLAN - UNIT K
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6 (6A FOR WAPS) COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	CONTRACTOR SHALL PROVIDE A DOCUMENTED MANUFACTURER CERTIFIED SOLUTION INCLUDING THE MINIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
C	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
D	PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
E	ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.
F	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS
G	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
H	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
I	ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.

TELECOM LEGEND

	DATA LOCATION
	ABOVE CEILING DATA LOCATION
	AV INPUT LOCATION
AV	AV FLOOR BOX LOCATION
BR	BLUETOOTH RECEIVER LOCATION
AUD	AUDIO CONNECTION LOCATION
VID	VIDEO CONNECTION LOCATION
MC	MOBLE CART CONNECTION
	AV CONTROL LOCATION
TP	TOUCH PANEL LOCATION
MON	MONITOR LOCATION
DS	DIGITAL SIGNAGE LOCATION
C	CLOCK LOCATION
C C	DUAL SIDED CLOCK LOCATION
WA	WIRELESS MICROPHONE ANTENNA LOCATION
HA	HEARING ASSISTANCE ANTENNA LOCATION
LB	LOUDSPEAKER JUNCTION BOX LOCATION
S	CEILING MOUNTED LOUDSPEAKER LOCATION
S	CEILING SPEAKER - PAGING LOCATION
SPK	WALL MOUNTED LOUDSPEAKER LOCATION
SPK	WALL MOUNTED SPEAKER - PAGING LOCATION
AP	WIRELESS ACCESS POINT - CEILING MOUNTED
AP	WIRELESS ACCESS POINT - WALL MOUNTED
A/V RACK	AV EQUIPMENT RACK LOCATION
D	DOOR POSITION SENSOR LOCATION
CR	CARD READER LOCATION
AC	ACCESS CONTROL SYSTEM HOLD-OPENS
SC	SECURITY CAMERA - CEILING MOUNTED
SC	SECURITY CAMERA - WALL MOUNTED

SHEET NOTES

1. DATA LOCATION TO SERVE ELEVATOR CONTROLS AND TELEPHONE LINE. CONTRACTOR SHALL PROVIDE AND INSTALL CAT 6 PATCH CORD(S) FROM OUTLET TO DEVICE AS REQUIRED.
2. DEVICES SHOWN WITHIN OUTLINE SHALL BE STUBBED DIRECTLY THROUGH EXISTING WALL ABOVE CEILING HEIGHT ON OTHER SIDE OF WALL. CABLING SHALL CONTINUE TO DESIGNATED POINT OF TERMINATION VIA J-HOOKS AND CONDUIT AS REQUIRED.
3. O.F.O.I. 75" FLAT PANEL DISPLAY MOUNTED TO O.F.O.I. MOBILE CART.
4. INSTALL EXISTING HANWHA PNF-9010RV CAMERA AT THIS LOCATION.
5. INSTALL EXISTING HANWHA PNM-7000VD CAMERA AT THIS LOCATION WITH LENSES IN HALLWAY VIEW ORIENTATION.
6. INSTALL EXISTING HANWHA PNM-7000VD CAMERA AT THIS LOCATION.

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

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1650 E. 49TH ST.
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317.536.8000
DESIGN27.COM

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
DOUGLAS J DRISCOLL
BICSI ID# 123408
EXPIRES 12-31-23
RCDD

REVISIONS:

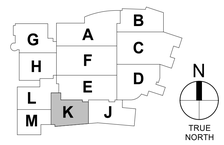
#	Date	Desc.
1	08/31/202	ADDENDUM #1
2	09/06/202	ADDENDUM #2
3		

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: MRF

FIRST FLOOR TECHNOLOGY PLAN - UNIT K

T201K



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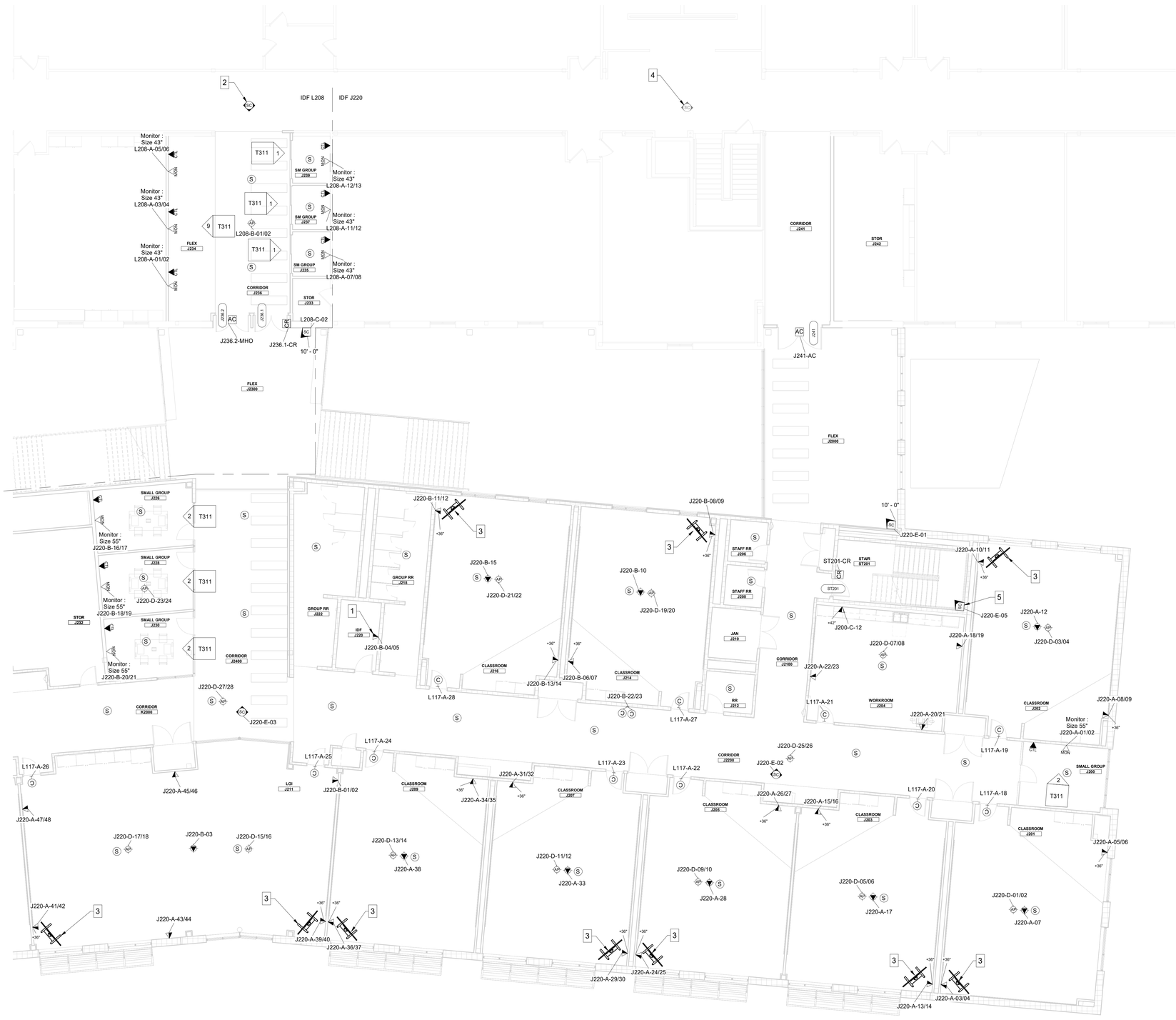

1 SECOND FLOOR TECHNOLOGY PLAN - UNIT J
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6 (6A FOR WAPS) COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	CONTRACTOR SHALL PROVIDE A DOCUMENTED MANUFACTURER CERTIFIED SOLUTION INCLUDING THE MINIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
C	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
D	PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
E	ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.
F	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS
G	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
H	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
I	ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.

TELECOM LEGEND

- DATA LOCATION
- ABOVE CEILING DATA LOCATION
- AV INPUT LOCATION
- AV FLOOR BOX LOCATION
- BT BLUETOOTH RECEIVER LOCATION
- AUD AUDIO CONNECTION LOCATION
- VID VIDEO CONNECTION LOCATION
- MC MOBLE CART CONNECTION
- AV CONTROL LOCATION
- TP TOUCH PANEL LOCATION
- MON MONITOR LOCATION
- DSG DIGITAL SIGNAGE LOCATION
- C CLOCK LOCATION
- C C DUAL SIDED CLOCK LOCATION
- WM WIRELESS MICROPHONE ANTENNA LOCATION
- HA HEARING ASSISTANCE ANTENNA LOCATION
- LB LOUDSPEAKER JUNCTION BOX LOCATION
- S CEILING MOUNTED LOUDSPEAKER LOCATION
- S CEILING SPEAKER - PAGING LOCATION
- SPK WALL MOUNTED LOUDSPEAKER LOCATION
- SPK WALL MOUNTED SPEAKER - PAGING LOCATION
- AP WIRELESS ACCESS POINT - CEILING MOUNTED
- AP WIRELESS ACCESS POINT - WALL MOUNTED
- AV RACK AV EQUIPMENT RACK LOCATION
- DOOR POSITION SENSOR LOCATION
- CR CARD READER LOCATION
- AC ACCESS CONTROL SYSTEM HOLD-OPENS
- SC SECURITY CAMERA - CEILING MOUNTED
- SC SECURITY CAMERA - WALL MOUNTED

SHEET NOTES

1. DATA LOCATION INSTALLED ADJACENT TO ACCESS CONTROL ENCLOSURE. CONTRACTOR SHALL PROVIDE AND INSTALL PATCH CORD(S) FROM DATA LOCATION TO ENCLOSURE AS REQUIRED.
2. EXISTING DUAL SENSOR SECURITY CAMERA TO BE REMOVED FOR INSTALLATION ELSEWHERE. INSTALL NEW MULTI-SENSOR CAMERA AT THIS LOCATION. EXISTING CABLING SHALL REMAIN FOR REUSE WITH NEW CAMERA.
3. O.F.O.I. 75" FLAT PANEL DISPLAY MOUNTED TO O.F.O.I. MOBILE CART.
4. EXISTING SECURITY CAMERA TO REMAIN.
5. MOUNT CAMERA AT 13' 6" ABOVE STAIR LANDING.

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DOUGLAS J DRISCOLL
BICSI ID# 123408
EXPIRES 12-31-23
RCDD

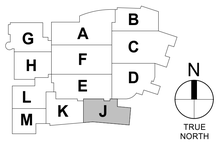
REVISIONS:			
#	Date	Desc.	
1	08/31/202	ADDENDUM #1	
2	10/06/202	ADDENDUM #2	

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: MRF

SECOND FLOOR TECHNOLOGY PLAN - UNIT J

T202J



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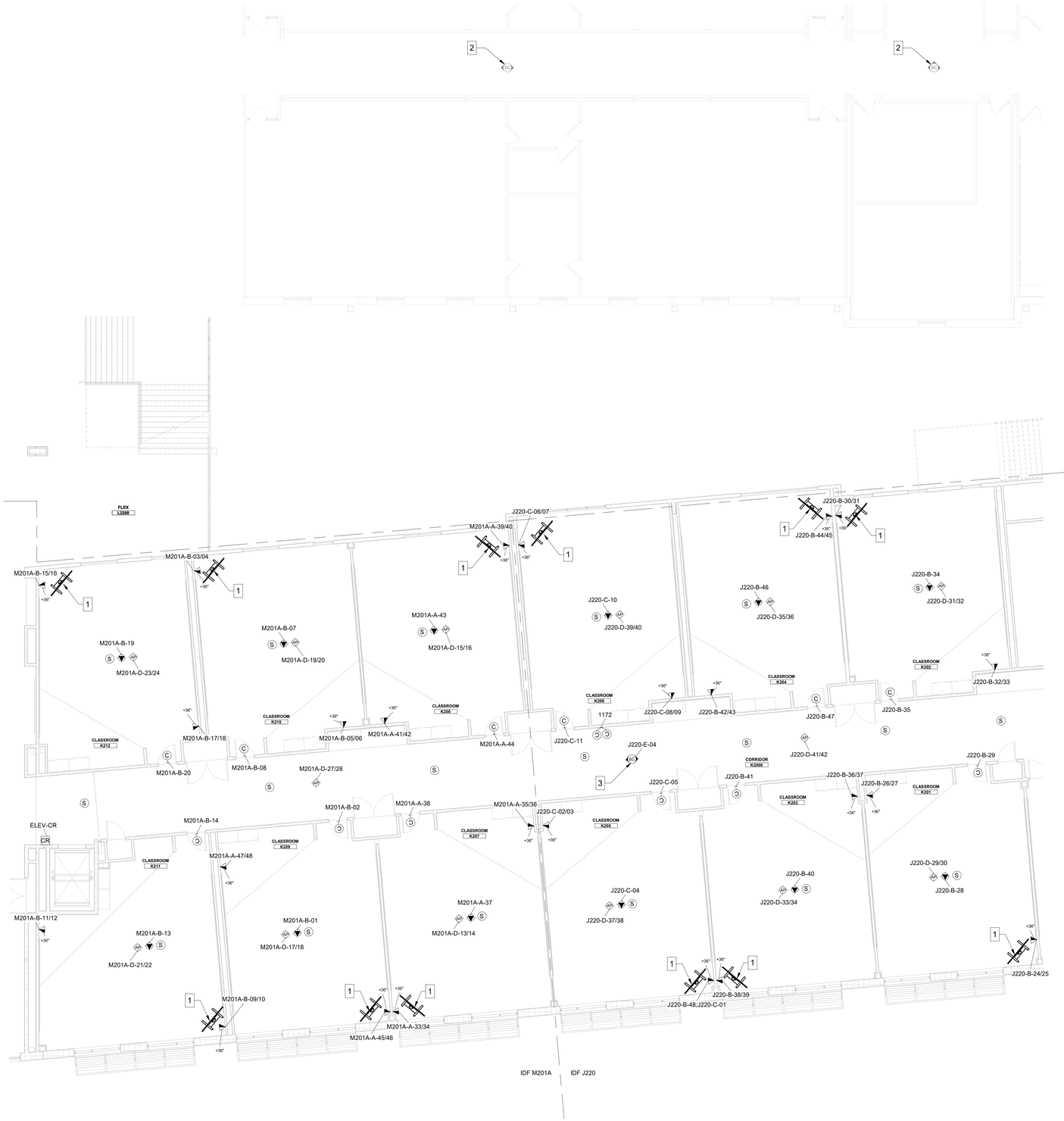

SECOND FLOOR TECHNOLOGY PLAN - UNIT K
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6 (6A FOR WAPS) COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	CONTRACTOR SHALL PROVIDE A DOCUMENTED MANUFACTURER CERTIFIED SOLUTION INCLUDING THE MINIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
C	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
D	PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
E	ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B
F	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS
G	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
H	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
I	ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.

TELECOM LEGEND

	DATA LOCATION
	ABOVE CEILING DATA LOCATION
	AV INPUT LOCATION
AV	AV FLOOR BOX LOCATION
BT	BLUETOOTH RECEIVER LOCATION
AUD	AUDIO CONNECTION LOCATION
VID	VIDEO CONNECTION LOCATION
MC	MOBLE CART CONNECTION
	AV CONTROL LOCATION
TP	TOUCH PANEL LOCATION
MON	MONITOR LOCATION
DS	DIGITAL SIGNAGE LOCATION
C	CLOCK LOCATION
C C	DUAL SIDED CLOCK LOCATION
WM	WIRELESS MICROPHONE ANTENNA LOCATION
HA	HEARING ASSISTANCE ANTENNA LOCATION
LS	LOUDSPEAKER JUNCTION BOX LOCATION
S	CEILING MOUNTED LOUDSPEAKER LOCATION
S	CEILING SPEAKER - PAGING LOCATION
SPK	WALL MOUNTED LOUDSPEAKER LOCATION
SPK	WALL MOUNTED SPEAKER - PAGING LOCATION
AP	WIRELESS ACCESS POINT - CEILING MOUNTED
AP	WIRELESS ACCESS POINT - WALL MOUNTED
A/V RACK	AV EQUIPMENT RACK LOCATION
D	DOOR POSITION SENSOR LOCATION
CR	CARD READER LOCATION
AC	ACCESS CONTROL SYSTEM HOLD-OPENS
SC	SECURITY CAMERA - CEILING MOUNTED
SC	SECURITY CAMERA - WALL MOUNTED

SHEET NOTES

1 O.F.O.I. 75" FLAT PANEL DISPLAY MOUNTED TO O.F.O.I. MOBILE CART.
2 EXISTING SECURITY CAMERA TO REMAIN.
3 INSTALL EXISTING HANWHA PNM-7000VD CAMERA AT THIS LOCATION WITH LENSES IN HALLWAY VIEW ORIENTATION.

LANCER ASSOCIATES ARCHITECTURE
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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
DOUGLAS J DRISCOLL
BICSI ID# 123408
EXPIRES 12-31-23
RCDD

REVISIONS:

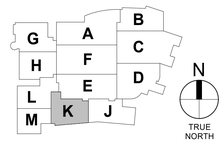
#	Date	Desc.
1	09/06/2022	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: MRF

SECOND FLOOR TECHNOLOGY PLAN - UNIT K

T202K



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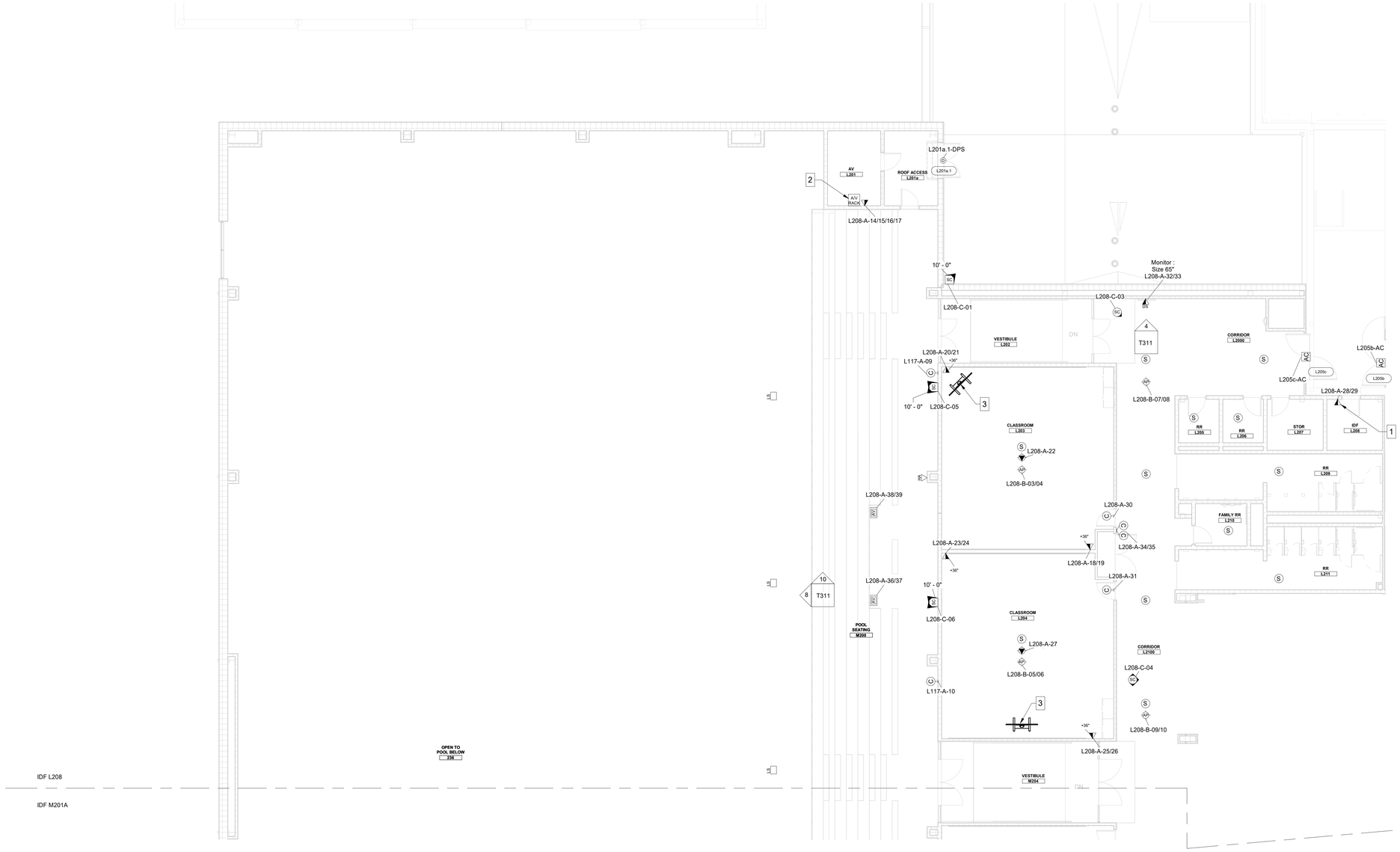

1 SECOND FLOOR TECHNOLOGY PLAN - UNIT L
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6 (6A FOR WAPS) COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	CONTRACTOR SHALL PROVIDE A DOCUMENTED MANUFACTURER CERTIFIED SOLUTION INCLUDING THE MINIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
C	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
D	PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
E	ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.
F	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS
G	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
H	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
I	ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.

TELECOM LEGEND

- DATA LOCATION
- ABOVE CEILING DATA LOCATION
- AV INPUT LOCATION
- AV FLOOR BOX LOCATION
- BLUETOOTH RECEIVER LOCATION
- AUDIO CONNECTION LOCATION
- VIDEO CONNECTION LOCATION
- MOBLE CART CONNECTION
- AV CONTROL LOCATION
- TOUCH PANEL LOCATION
- MONITOR LOCATION
- DIGITAL SIGNAGE LOCATION
- CLOCK LOCATION
- DUAL SIDED CLOCK LOCATION
- WIRELESS MICROPHONE ANTENNA LOCATION
- HEARING ASSISTANCE ANTENNA LOCATION
- LOUDSPEAKER JUNCTION BOX LOCATION
- CEILING MOUNTED LOUDSPEAKER LOCATION
- CEILING SPEAKER - PAGING LOCATION
- WALL MOUNTED LOUDSPEAKER LOCATION
- WALL MOUNTED SPEAKER - PAGING LOCATION
- WIRELESS ACCESS POINT - CEILING MOUNTED
- WIRELESS ACCESS POINT - WALL MOUNTED
- AV EQUIPMENT RACK LOCATION
- DOOR POSITION SENSOR LOCATION
- CARD READER LOCATION
- ACCESS CONTROL SYSTEM HOLD-OPENS
- SECURITY CAMERA - CEILING MOUNTED
- SECURITY CAMERA - WALL MOUNTED

SHEET NOTES

1. DATA LOCATION INSTALLED ADJACENT TO ACCESS CONTROL ENCLOSURE. CONTRACTOR SHALL PROVIDE AND INSTALL PATCH CORD(S) FROM DATA LOCATION TO ENCLOSURE AS REQUIRED.
2. AV EQUIPMENT RACK SERVING POOL.
3. O.F.O.I. 75" FLAT PANEL DISPLAY MOUNTED TO O.F.O.I. MOBILE CART.

LANCER ASSOCIATES ARCHITECTURE
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INDIANAPOLIS, IN 46203

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DOUGLAS J DRISCOLL
BICSI ID# 123408
EXPIRES 12-31-23
RCDD

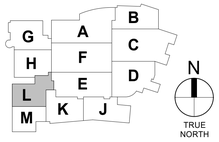
REVISIONS:

#	Date	Desc.
1	08/31/202	ADDENDUM #1
2	09/06/202	ADDENDUM #2
3		

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: MRF

SECOND FLOOR TECHNOLOGY PLAN - UNIT L



T202L

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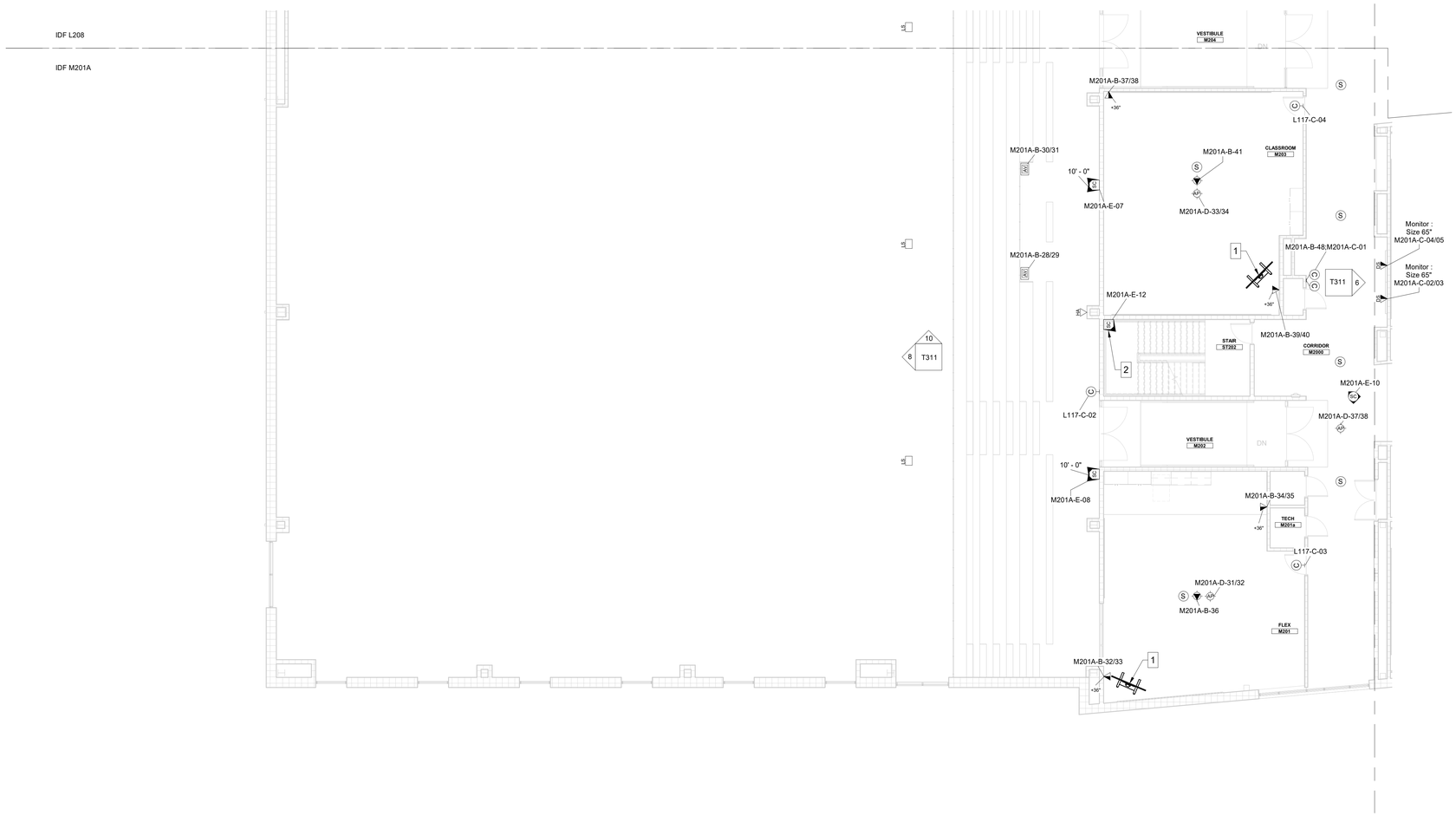

1 SECOND FLOOR TECHNOLOGY PLAN - UNIT M
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6 (6A FOR WAPS) COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	CONTRACTOR SHALL PROVIDE A DOCUMENTED MANUFACTURER CERTIFIED SOLUTION INCLUDING THE MINIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
C	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
D	PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
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F	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS
G	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
H	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
I	ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.

TELECOM LEGEND

- DATA LOCATION
- ABOVE CEILING DATA LOCATION
- AV INPUT LOCATION
- AV FLOOR BOX LOCATION
- BLUETOOTH RECEIVER LOCATION
- AUDIO CONNECTION LOCATION
- VIDEO CONNECTION LOCATION
- MOBLE CART CONNECTION
- AV CONTROL LOCATION
- TOUCH PANEL LOCATION
- MONITOR LOCATION
- DIGITAL SIGNAGE LOCATION
- CLOCK LOCATION
- DUAL SIDED CLOCK LOCATION
- WIRELESS MICROPHONE ANTENNA LOCATION
- HEARING ASSISTANCE ANTENNA LOCATION
- LOUDSPEAKER JUNCTION BOX LOCATION
- CEILING MOUNTED LOUDSPEAKER LOCATION
- CEILING SPEAKER - PAGING LOCATION
- WALL MOUNTED LOUDSPEAKER LOCATION
- WALL MOUNTED SPEAKER - PAGING LOCATION
- WIRELESS ACCESS POINT - CEILING MOUNTED
- WIRELESS ACCESS POINT - WALL MOUNTED
- AV EQUIPMENT RACK LOCATION
- DOOR POSITION SENSOR LOCATION
- CARD READER LOCATION
- ACCESS CONTROL SYSTEM HOLD-OPENS
- SECURITY CAMERA - CEILING MOUNTED
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SHEET NOTES

1 O.F.O.I. 75" FLAT PANEL DISPLAY MOUNTED TO O.F.O.I. MOBILE CART.
2 MOUNT CAMERA AT 13' 6" ABOVE STAIR LANDING.

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BICSI
DOUGLAS J DRISCOLL
BICSI ID# 123408
EXPIRES 12-31-23
RCDD

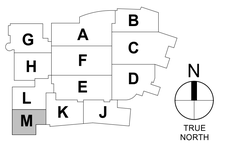
REVISIONS:

#	Date	Desc.
1	08/31/202 3	ADDENDUM #1
2	09/06/202 3	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: MRF

SECOND FLOOR TECHNOLOGY PLAN - UNIT M



T202M

PLOT DATE/TIME: 9/8/2023 4:44:50 PM

IDF L302 IDF J322

IDF L302 IDF J322

1 THIRD FLOOR TECHNOLOGY PLAN - UNIT J
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6 (6A FOR WAPS) COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	CONTRACTOR SHALL PROVIDE A DOCUMENTED MANUFACTURER CERTIFIED SOLUTION INCLUDING THE MINIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
C	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
D	PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
E	ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B
F	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS
G	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
H	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
I	ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.

TELECOM LEGEND

- DATA LOCATION
- ABOVE CEILING DATA LOCATION
- AV INPUT LOCATION
- AV FLOOR BOX LOCATION
- BLUETOOTH RECEIVER LOCATION
- AUDIO CONNECTION LOCATION
- VIDEO CONNECTION LOCATION
- MOBLE CART CONNECTION
- AV CONTROL LOCATION
- TOUCH PANEL LOCATION
- MONITOR LOCATION
- DIGITAL SIGNAGE LOCATION
- CLOCK LOCATION
- DUAL SIDED CLOCK LOCATION
- WIRELESS MICROPHONE ANTENNA LOCATION
- HEARING ASSISTANCE ANTENNA LOCATION
- LOUDSPEAKER JUNCTION BOX LOCATION
- CEILING MOUNTED LOUDSPEAKER LOCATION
- CEILING SPEAKER - PAGING LOCATION
- WALL MOUNTED LOUDSPEAKER LOCATION
- WALL MOUNTED SPEAKER - PAGING LOCATION
- WIRELESS ACCESS POINT - CEILING MOUNTED
- WIRELESS ACCESS POINT - WALL MOUNTED
- AV EQUIPMENT RACK LOCATION
- DOOR POSITION SENSOR LOCATION
- CARD READER LOCATION
- ACCESS CONTROL SYSTEM HOLD-OPENS
- SECURITY CAMERA - CEILING MOUNTED
- SECURITY CAMERA - WALL MOUNTED

SHEET NOTES

1. DATA LOCATION INSTALLED ADJACENT TO ACCESS CONTROL ENCLOSURE. CONTRACTOR SHALL PROVIDE AND INSTALL PATCH CORD(S) FROM DATA LOCATION TO ENCLOSURE AS REQUIRED.
2. O.F.O.I. 75" FLAT PANEL DISPLAY MOUNTED TO O.F.O.I. MOBILE CART.
3. DATA LOCATION TO SERVE BUILDING AUTOMATION SYSTEM / CONTROLS CONNECTIVITY. CONTRACTOR SHALL PROVIDE AND INSTALL CAT 6 PATCH CORD(S) FROM OUTLET TO DEVICE AS REQUIRED.
4. AV EQUIPMENT RACK SERVING DIVISIBLE SCIENCE LABS. DATA LOCATION SERVING RACK SHALL BE INSTALLED BEHIND RACK W/HIN RACK KNOCKOUT AT 46" A.F.F.
5. DOOR POSITION SENSOR MONITORING ROOF HATCH. REFER TO T400 SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
6. MOUNT CAMERA AT 23' ABOVE STAIR LANDING.

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WHITELAND COMM. HIGH SCHOOL ADDITION
300 E MAIN ST, WHITELAND, IN 46184

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
DOUGLAS J DRISCOLL
BICSI ID# 123408
EXPIRES 12-31-23
RCDD

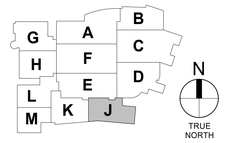
REVISIONS: #	Date	Desc.
1	08/31/202	ADDENDUM #1
2	09/06/202	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: MRF

THIRD FLOOR TECHNOLOGY PLAN - UNIT J

T203J



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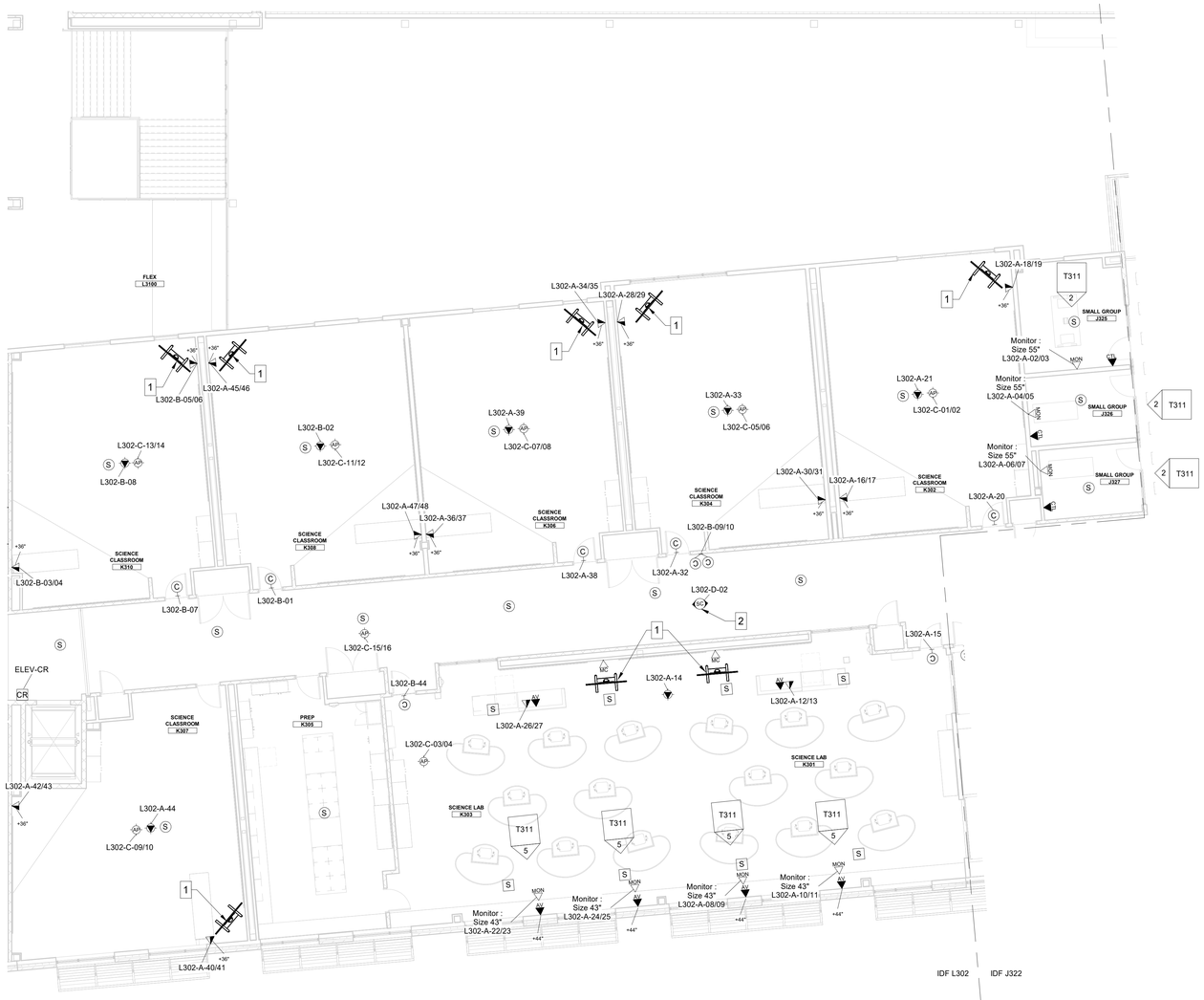

1 THIRD FLOOR TECHNOLOGY PLAN - UNIT K
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6 (6A FOR WAPS) COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	CONTRACTOR SHALL PROVIDE A DOCUMENTED MANUFACTURER CERTIFIED SOLUTION INCLUDING THE MINIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
C	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
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TELECOM LEGEND

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	ABOVE CEILING DATA LOCATION
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AV	AV FLOOR BOX LOCATION
BT	BLUETOOTH RECEIVER LOCATION
AUD	AUDIO CONNECTION LOCATION
VID	VIDEO CONNECTION LOCATION
MC	MOBLE CART CONNECTION
	AV CONTROL LOCATION
TP	TOUCH PANEL LOCATION
MON	MONITOR LOCATION
DS	DIGITAL SIGNAGE LOCATION
C	CLOCK LOCATION
C C	DUAL SIDED CLOCK LOCATION
WM	WIRELESS MICROPHONE ANTENNA LOCATION
HA	HEARING ASSISTANCE ANTENNA LOCATION
LJB	LOUDSPEAKER JUNCTION BOX LOCATION
S	CEILING MOUNTED LOUDSPEAKER LOCATION
S	CEILING SPEAKER - PAGING LOCATION
SPK	WALL MOUNTED LOUDSPEAKER LOCATION
SPK	WALL MOUNTED SPEAKER - PAGING LOCATION
AP	WIRELESS ACCESS POINT - CEILING MOUNTED
AP	WIRELESS ACCESS POINT - WALL MOUNTED
AV RACK	AV EQUIPMENT RACK LOCATION
D	DOOR POSITION SENSOR LOCATION
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AC	ACCESS CONTROL SYSTEM HOLD-OPENS
SC	SECURITY CAMERA - CEILING MOUNTED
SC	SECURITY CAMERA - WALL MOUNTED

1
1 O.F.O.I. 75" FLAT PANEL DISPLAY MOUNTED TO O.F.O.I. MOBILE CART.
2 INSTALL EXISTING HANWHA PNM-7000VD CAMERA AT THIS LOCATION WITH LENSES IN HALLWAY VIEW ORIENTATION.

SHEET NOTES

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EXPIRES 12-31-23
RCDD

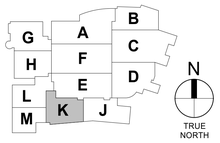
REVISIONS:			
#	Date	Desc.	
1	09/06/2022	ADDENDUM #2	

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: MRF

THIRD FLOOR TECHNOLOGY PLAN - UNIT K

T203K



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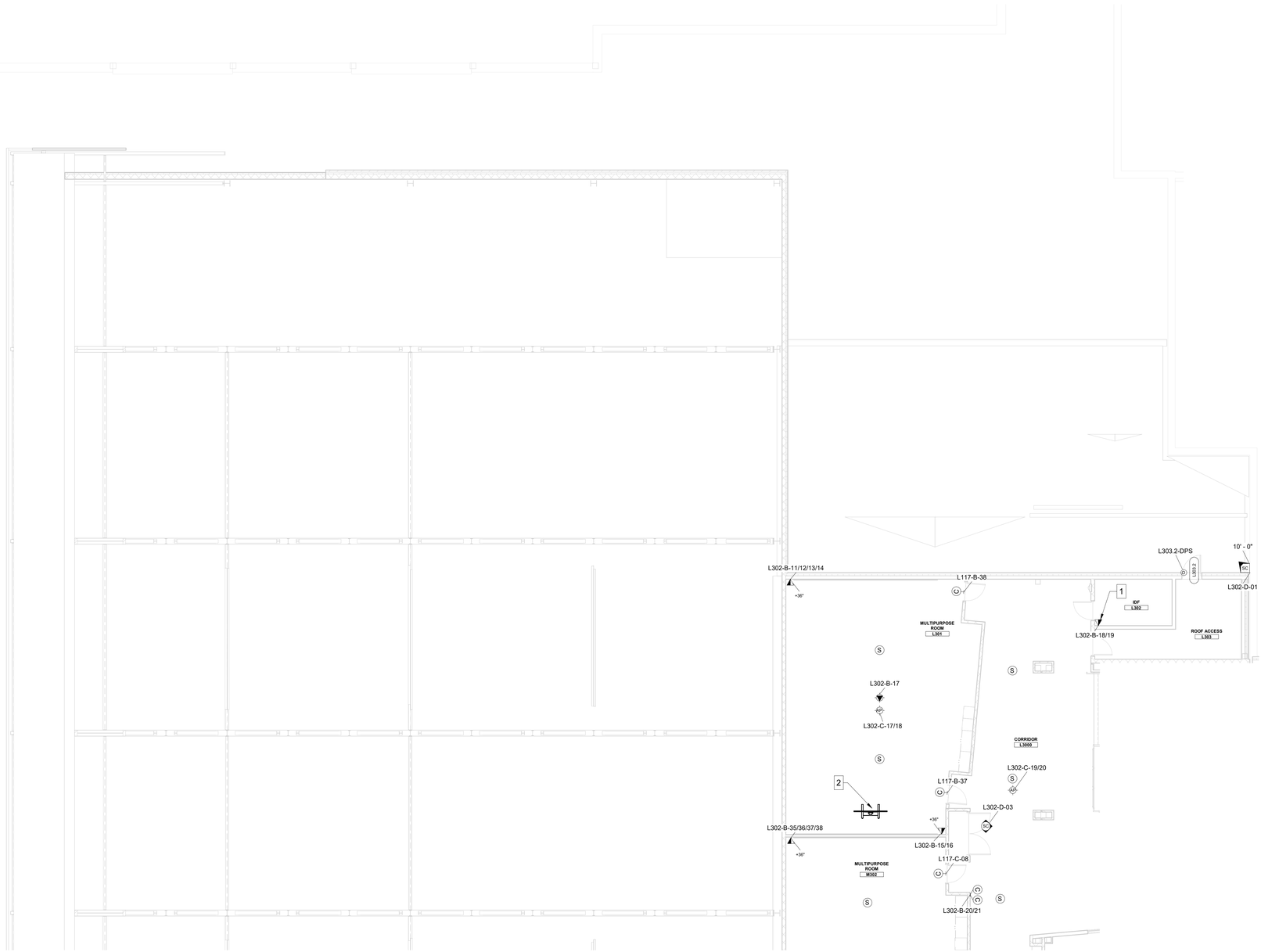

1 THIRD FLOOR TECHNOLOGY PLAN - UNIT L
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6 (6A FOR WAPS) COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
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SC	SECURITY CAMERA - CEILING MOUNTED
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SHEET NOTES

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2 O.F.O.I. 75" FLAT PANEL DISPLAY MOUNTED TO O.F.O.I. MOBILE CART.

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DOUGLAS J DRISCOLL
BICSI ID# 123408
EXPIRES 12-31-23
RCDD

REVISIONS:

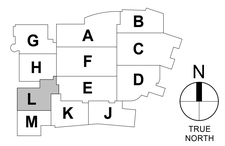
#	Date	Desc.
1	08/31/202 3	ADDENDUM #1
2	09/06/202 3	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: MRF

THIRD FLOOR TECHNOLOGY PLAN - UNIT L

T203L



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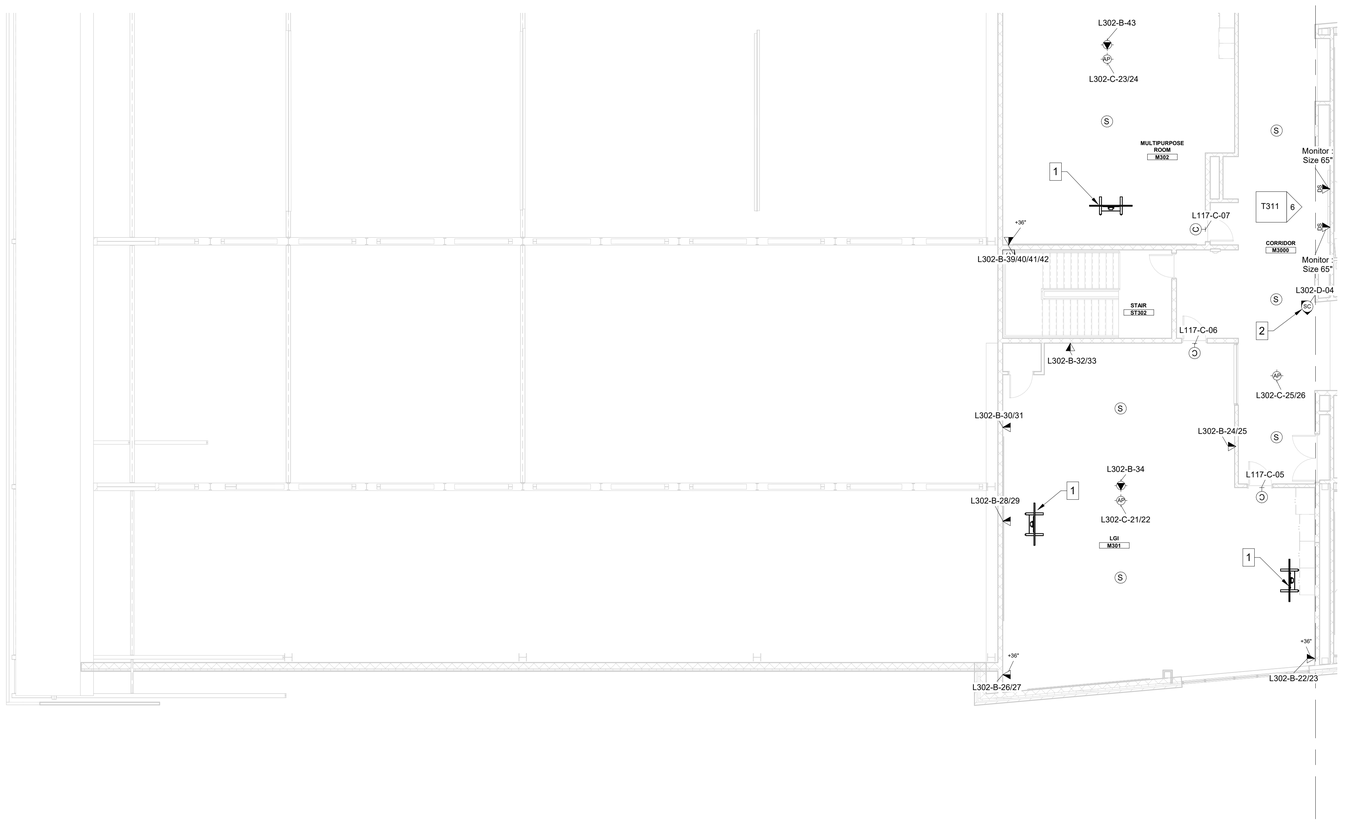

1 THIRD FLOOR TECHNOLOGY PLAN - UNIT M
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6 (6A FOR WAPS) COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
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	ABOVE CEILING DATA LOCATION
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AUD	AUDIO CONNECTION LOCATION
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MC	MOBLE CART CONNECTION
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TP	TOUCH PANEL LOCATION
MON	MONITOR LOCATION
DS	DIGITAL SIGNAGE LOCATION
C	CLOCK LOCATION
C C	DUAL SIDED CLOCK LOCATION
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LS	LOUDSPEAKER JUNCTION BOX LOCATION
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SC	SECURITY CAMERA - CEILING MOUNTED
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SHEET NOTES

1 O.F.O.I. 75" FLAT PANEL DISPLAY MOUNTED TO O.F.O.I. MOBILE CART.
2 INSTALL EXISTING HANWHA PNM-7000VD CAMERA AT THIS LOCATION.

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

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DOUGLAS J DRISCOLL
BICSI ID# 123408
EXPIRES 12-31-23
RCDD

REVISIONS:

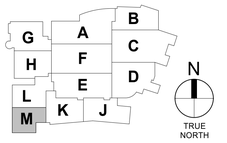
#	Date	Desc.
1	09/06/202 3	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: MRF

THIRD FLOOR TECHNOLOGY PLAN - UNIT M

T203M



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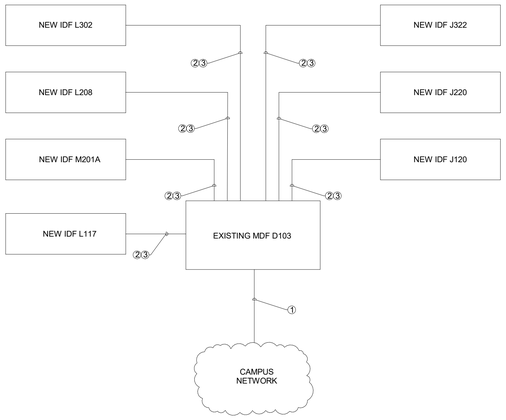


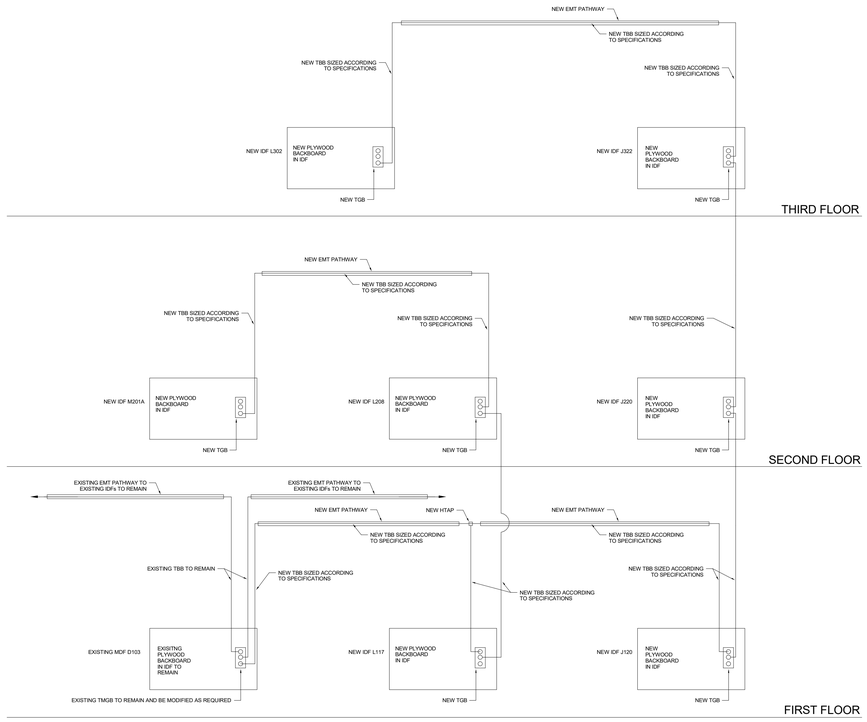
1 TELECOM RISER CABLING DIAGRAM
N.T.S.

(#) RISER LEGEND: (THIS DETAIL)

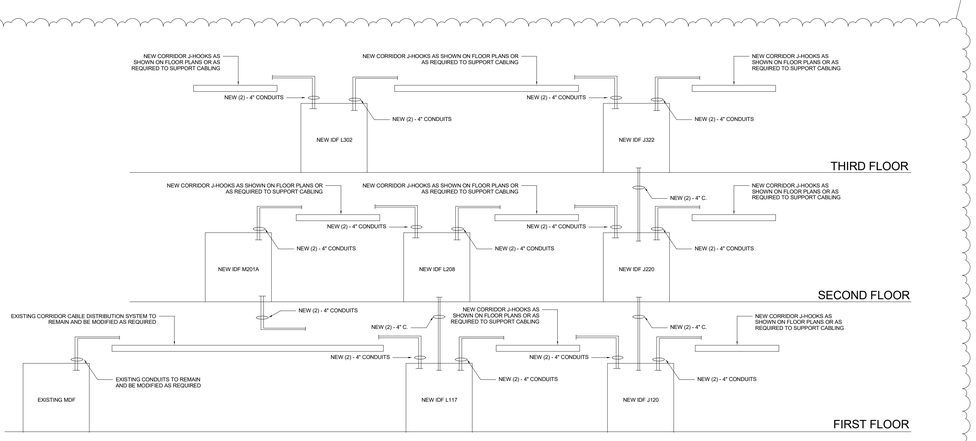
1. EXISTING CABLING TO REMAIN.
2. NEW 25-PAIR CATEGORY 5E COPPER RISER CABLING.
3. NEW 12 STRAND OM4 MULTIMODE FIBER OPTIC CABLING.

RISER NOTES (THIS DETAIL)

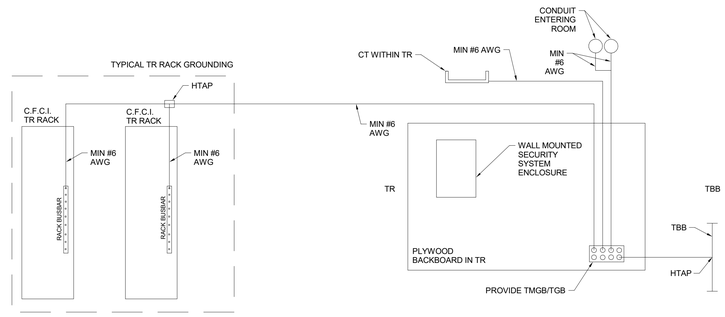
1. UNLESS OTHERWISE NOTED, RISER TERMINATIONS SHALL BE AS FOLLOWS:
   A) MULTI MODE FIBER OPTIC CABLE WILL BE TERMINATED WITH LC CONNECTORS IN FIBER ENCLOSURE IN THE RACKS AT EACH END.
   B) UTP COPPER (VOICE) BACKBONE CABLES SHALL BE TERMINATED IN PATCH PANELS IN RACKS ON BOTH ENDS.
2. RISER CABLES ENTERING MDF AND TELECOMMUNICATIONS ROOM(S) SHALL CONTINUE WITHIN EACH ROOM TO THEIR SPECIFIED TERMINATION POINT WITH ADEQUATE SERVICE LOOP.
3. CONTRACTOR SHALL CONFIRM RISER CABLE LABELING WITH OWNER PRIOR TO INSTALLATION. LABELING SHALL BE CLEARLY PRINTED ON FIBER ENCLOSURE AND CABLING.
4. FIBER LABELING AT A MINIMUM SHALL CLARIFY THE TYPE OF FIBER OPTIC CABLE, THE STRAND QUANTITY, AND THE LOCATION (ROOM #, RACK #, AND ENCLOSURE LABEL).
5. FIBER CABLING UTILIZED SHALL BE ARMORED. NON-ARMORED FIBER RAN WITHIN INNERDUCT IS NOT ACCEPTABLE. INNERDUCT IS NOT REQUIRED WITH ARMORED CABLING AND SHALL NOT BE UTILIZED.



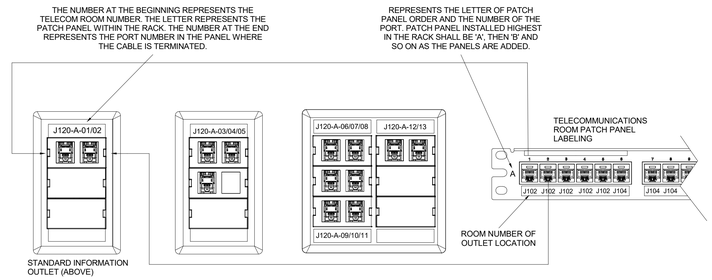
2 TELECOM GROUND RISER DETAIL
N.T.S.



3 TELECOM DISTRIBUTION DIAGRAM
N.T.S.



4 TELECOM TYPICAL GROUND DETAIL
N.T.S.



5 TYPICAL DEVICE LABELING DETAIL
N.T.S.

PLOT DATE/TIME: 8/9/2023 4:41:00 PM

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427 S. COLLEGE AVE
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REVISIONS:

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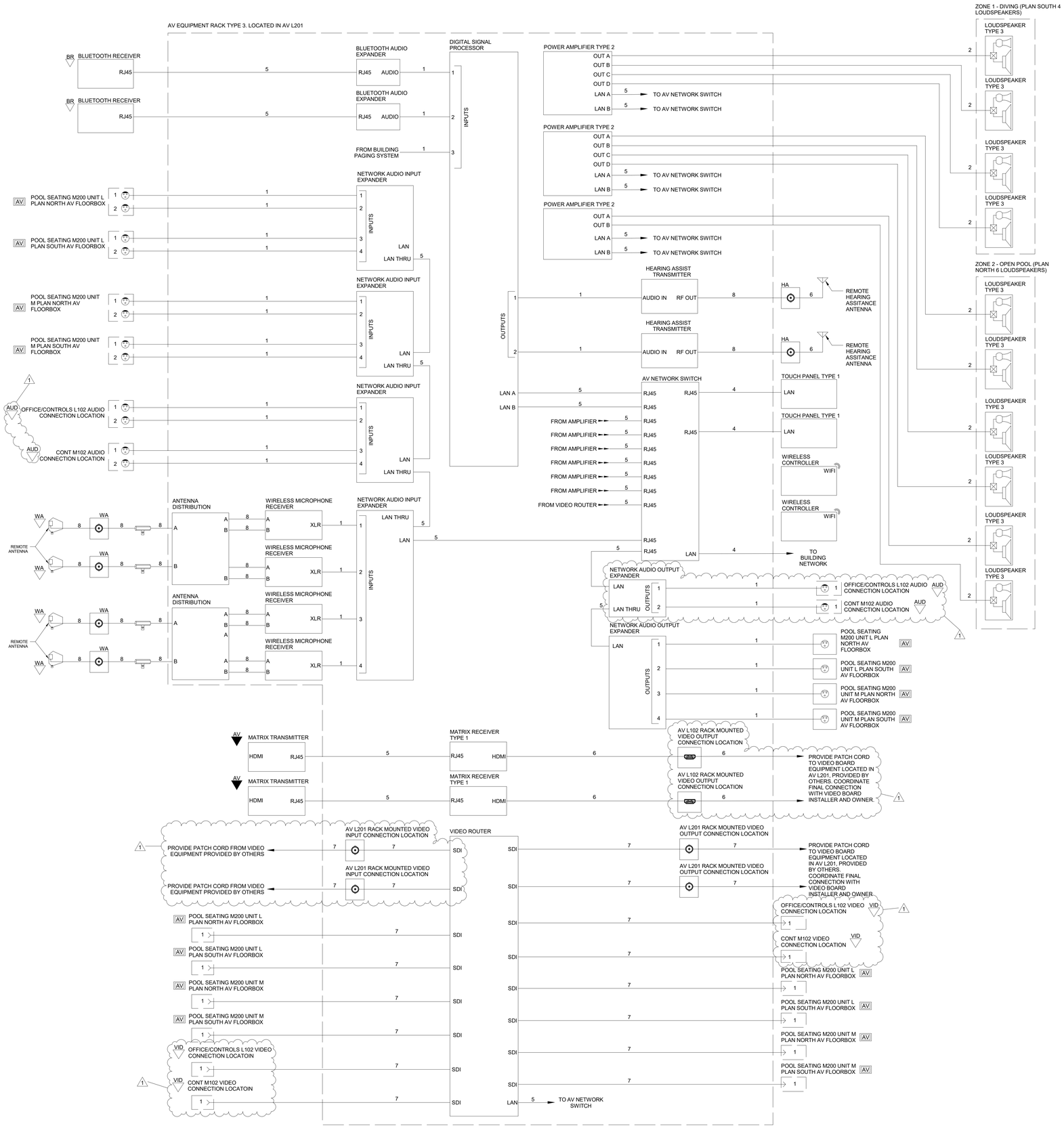
1	09/06/202 3	ADDENDUM #2

100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: MRF

TELECOM DIAGRAMS

T300



1 POOL AV DIAGRAM
N.T.S.

AV CABLING LEGEND

1	BALANCED MICROPHONE / LINE LEVEL CABLING
2	12AWG LOUDSPEAKER CABLING
3	16AWG LOUDSPEAKER CABLING
4	UTP CABLING
5	STP CABLING
6	HDMI CABLING
7	SDI CABLING
8	RF CABLING
9	RS-232 CABLING
10	MANUFACTURER RECOMMENDED CABLING

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1	09/06/2023	ADDENDUM #2

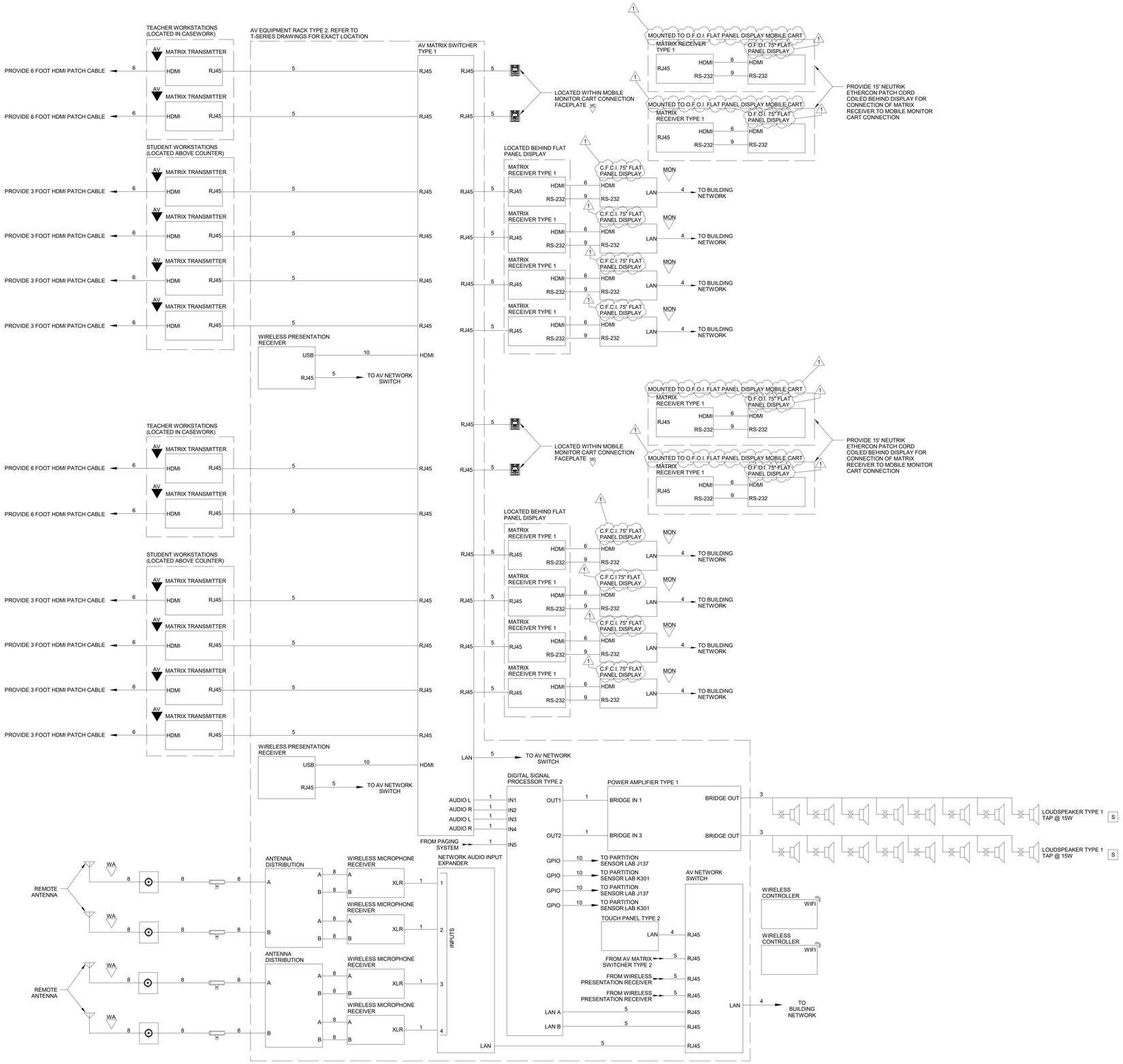
100% CONSTRUCTION DOCUMENT

PROJECT: #22130
DATE: 07-28-2023
DRAWN BY: MRF

AUDIO VISUAL DIAGRAMS

T306

PLOT DATE/TIME: 9/6/2023 4:41:01 PM



1 SCIENCE LABS AV DIAGRAM
N.T.S.

AV CABLING LEGEND

1	BALANCED MICROPHONE / LINE LEVEL CABLING
2	12AWG LOUDSPEAKER CABLING
3	16AWG LOUDSPEAKER CABLING
4	UTP CABLING
5	STP CABLING
6	HDMI CABLING
7	SDI CABLING
8	RF CABLING
9	RS-232 CABLING
10	MANUFACTURER RECOMMENDED CABLING

LANCER ASSOCIATES ARCHITECTURE
427 S. COLLEGE AVE
INDIANAPOLIS, IN 46203

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CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
DOUGLAS J DRISCOLL
BICSI ID# 123408
EXPIRES 12-31-23
RCDD

REVISIONS:

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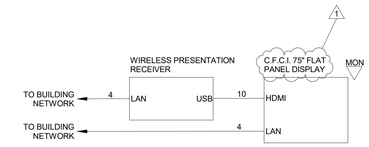
AUDIO VISUAL DIAGRAMS

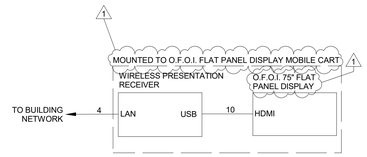
T307

PLOT DATE/TIME: 9/6/2023 4:41:03 PM

AV CABLING LEGEND	
1	BALANCED MICROPHONE / LINE LEVEL CABLING
2	12AWG LOUDSPEAKER CABLING
3	16AWG LOUDSPEAKER CABLING
4	UTP CABLING
5	STP CABLING
6	HDMI CABLING
7	SDI CABLING
8	RF CABLING
9	RS-232 CABLING
10	MANUFACTURER RECOMMENDED CABLING



1 OFFICE L104 AV DIAGRAM
N.T.S.



2 TYPICAL CLASSROOM AV DIAGRAM
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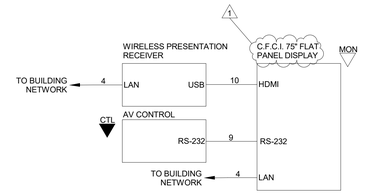

FLEX J140 AND J234, SMALL GROUP, CONFERENCE J126 AV DIAGRAM
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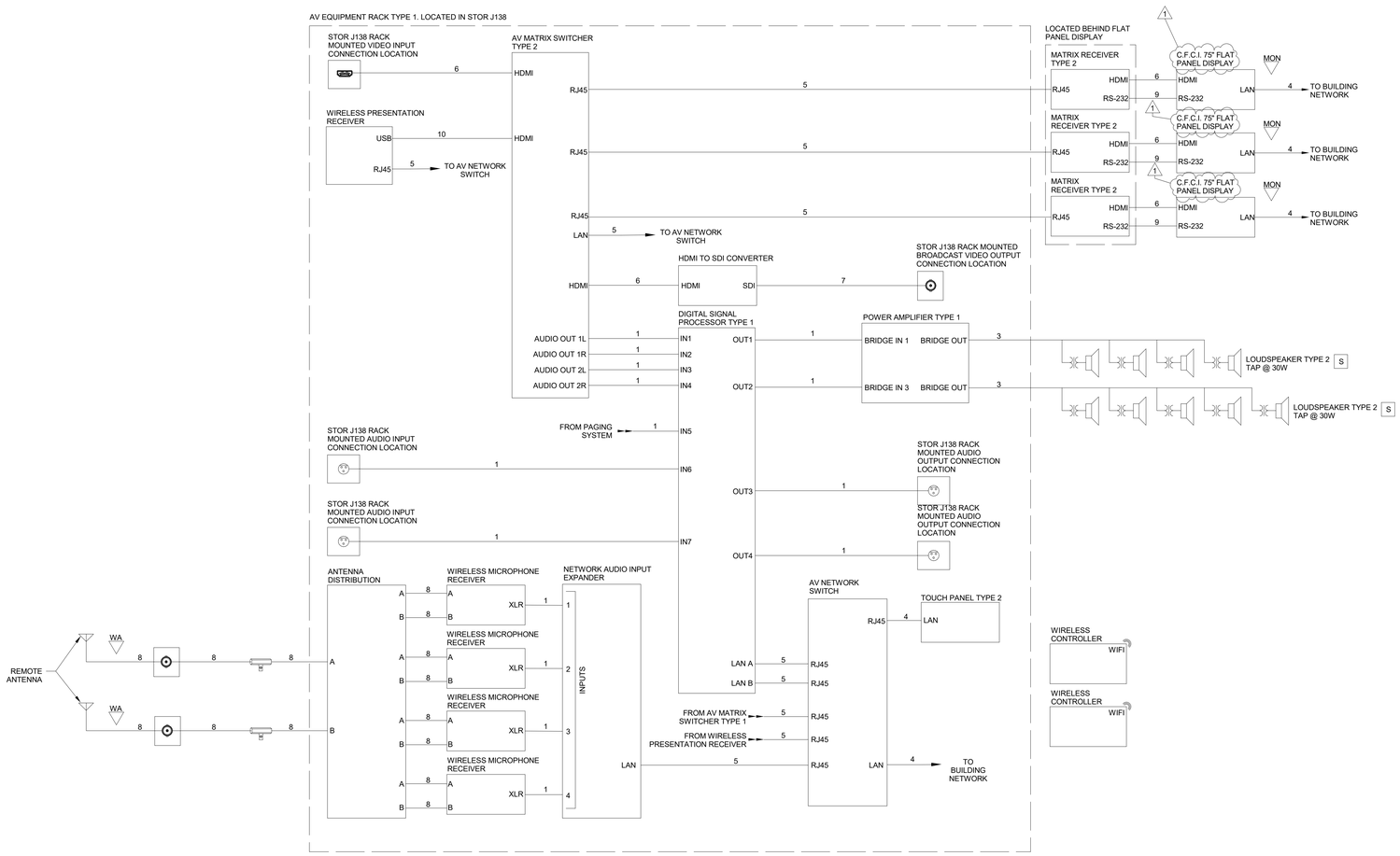

4 ATRIUM AV DIAGRAM
N.T.S.

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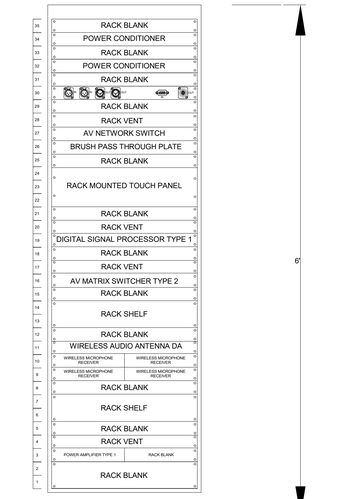
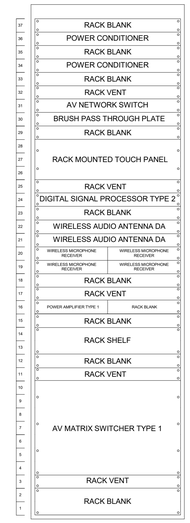
AUDIO VISUAL DIAGRAMS

T308

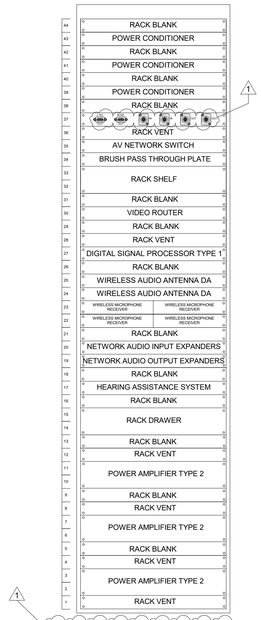
PLOT DATE/TIME: 9/6/2022 4:41:55 PM



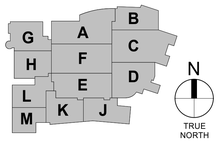
1 STOR J138 AV RACK ELEVATION
N.T.S.



2 SCIENCE LABS AV RACK ELEVATION
N.T.S.



3 AV L201 AV RACK ELEVATION
N.T.S.



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AUDIO VISUAL RACK ELEVATIONS

T310

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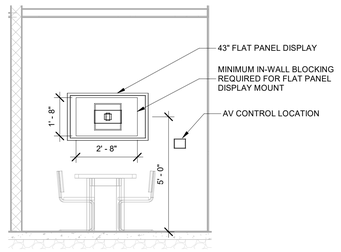
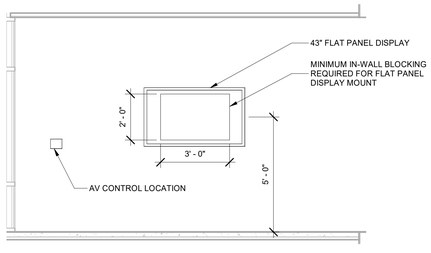
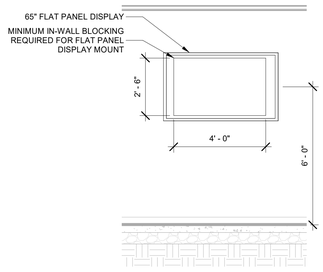


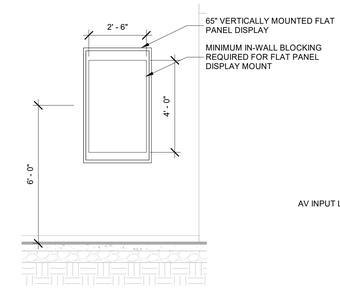
1 43" FLAT PANEL DISPLAY TYPICAL SM GROUP AV ELEVATION
3/8" = 1'-0"



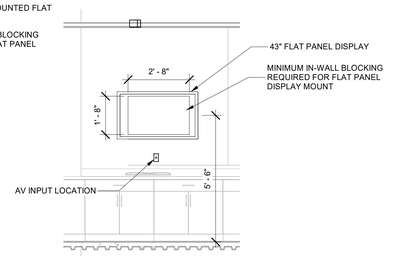
2 43" FLAT PANEL DISPLAY TYPICAL SM GROUP J200 AND J300 AV ELEVATION
3/8" = 1'-0"



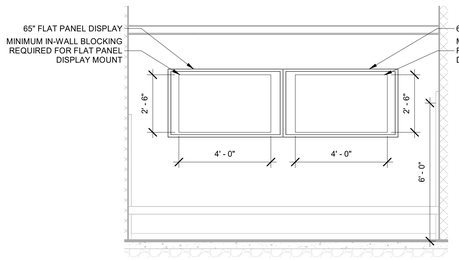
3 65" DIGITAL SIGNAGE TYPICAL ELEVATION
3/8" = 1'-0"



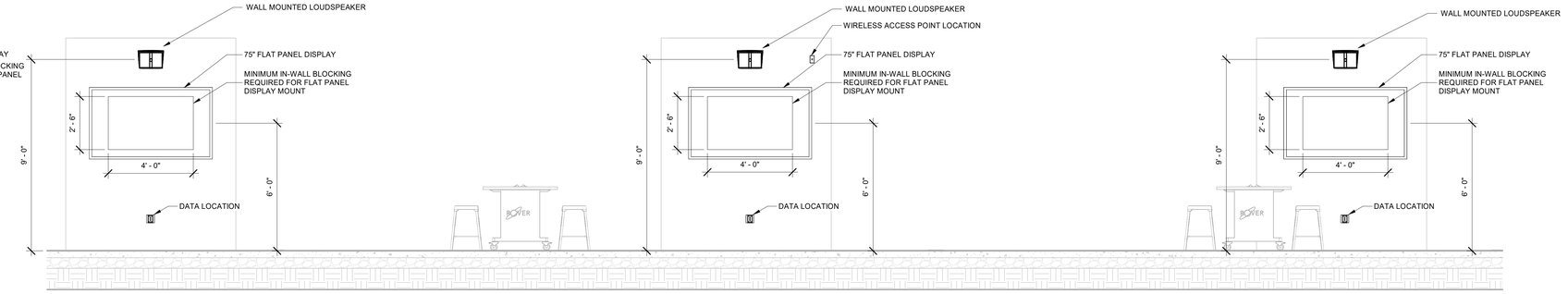
4 65" VERTICAL DIGITAL SIGNAGE TYPICAL ELEVATION
3/8" = 1'-0"



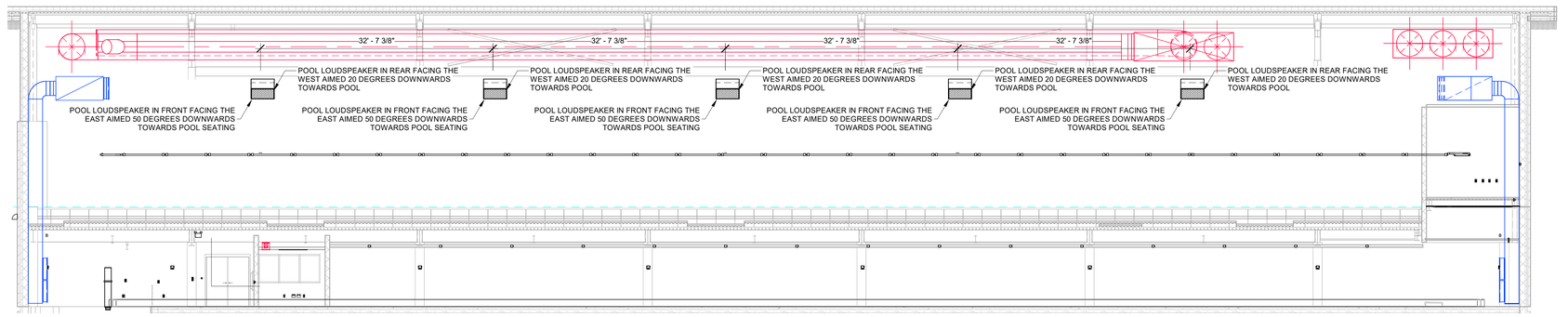
5 SCIENCE LAB TYPICAL AV ELEVATION
3/8" = 1'-0"



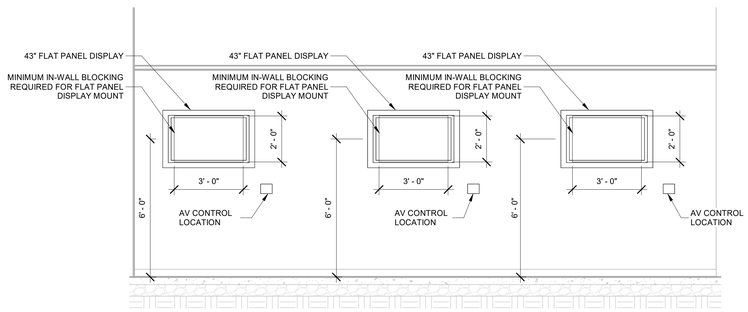
6 65" DIGITAL SIGNAGE SIDE BY SIDE TYPICAL ELEVATION
3/8" = 1'-0"



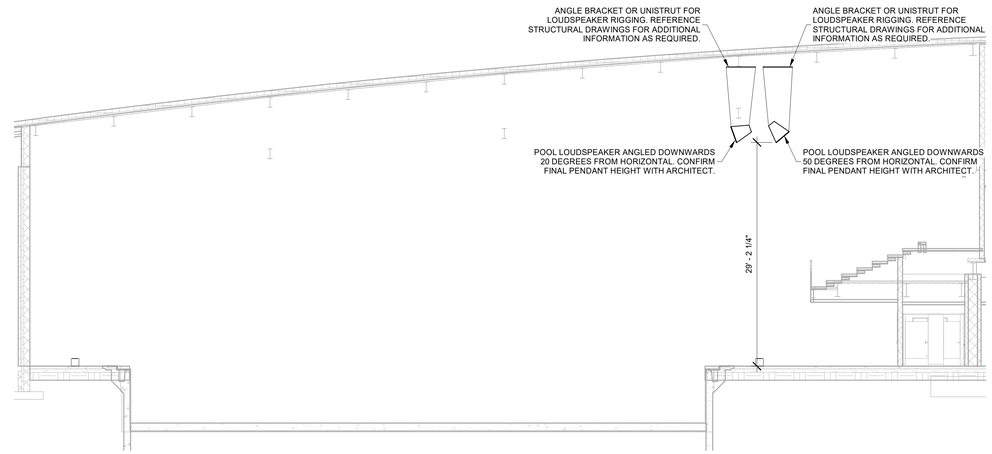
7 FLEX K1000 ELEVATION
3/8" = 1'-0"



8 POOL LOUDSPEAKER ELEVATION - FRONT
1/8" = 1'-0"



9 FLEX ROOM TYPICAL AV ELEVATION
3/8" = 1'-0"



10 POOL LOUDSPEAKER ELEVATION - SIDE
1/8" = 1'-0"

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PROJECT: #22130
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AUDIO VISUAL ELEVATIONS

T311

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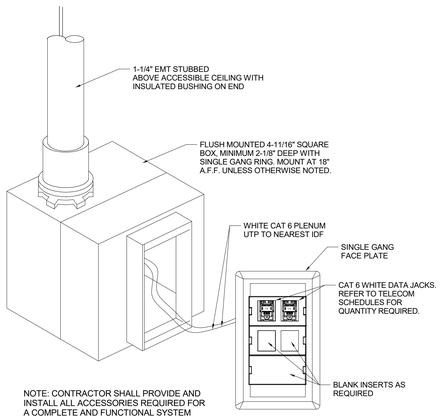
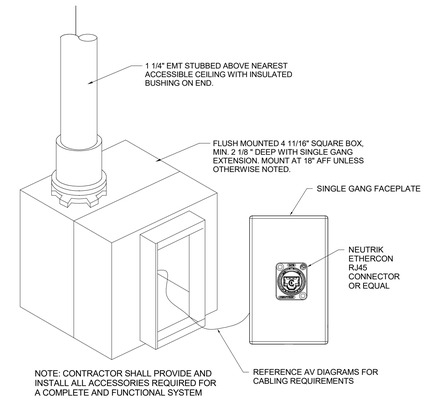


1 DATA LOCATION
N.T.S.



2 MOBILE CART CONNECTION
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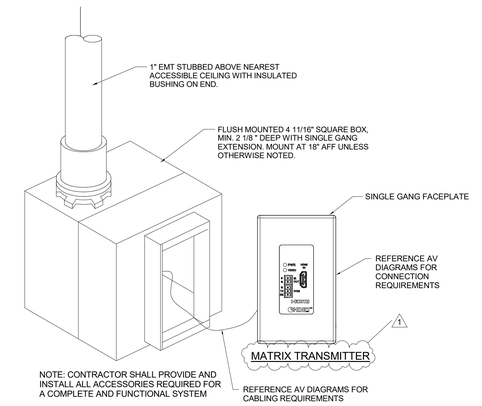

3 MATRIX TRANSMITTER
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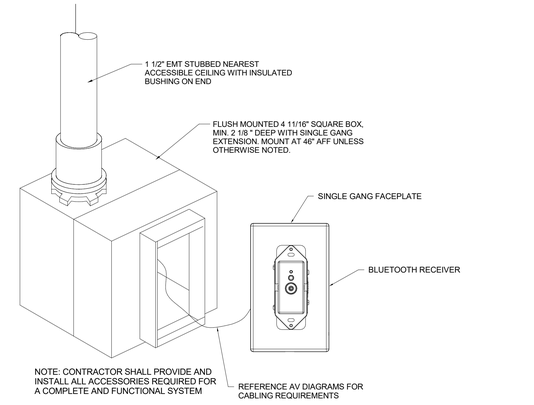

4 BLUETOOTH RECEIVER LOCATION
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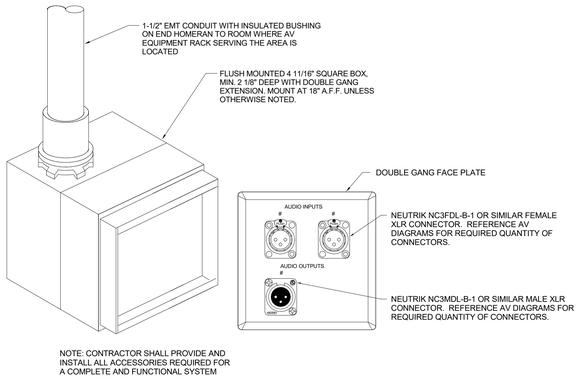

5 AUDIO CONNECTION LOCATION
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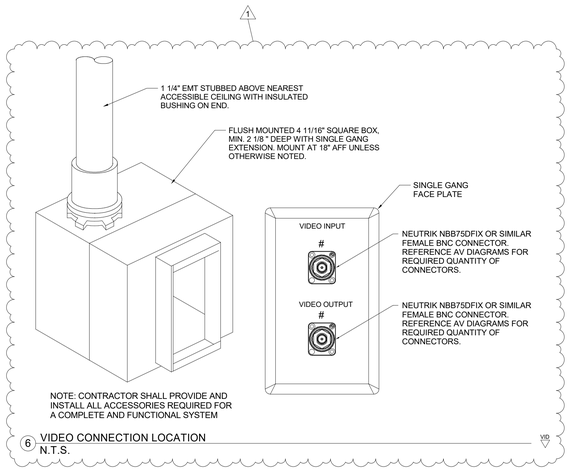

6 VIDEO CONNECTION LOCATION
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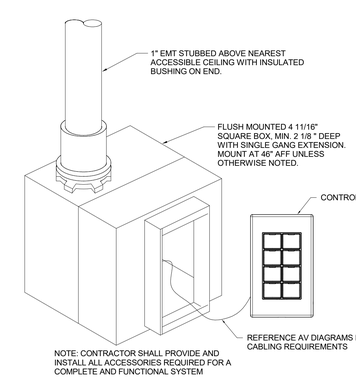
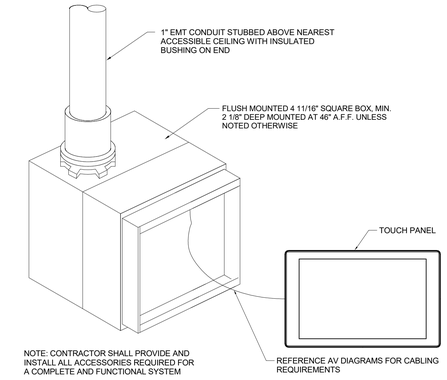


7 AV CONTROL LOCATION
N.T.S.



8 TOUCH PANEL LOCATION
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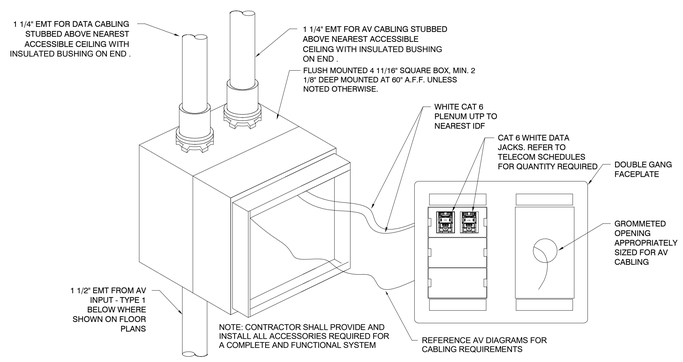
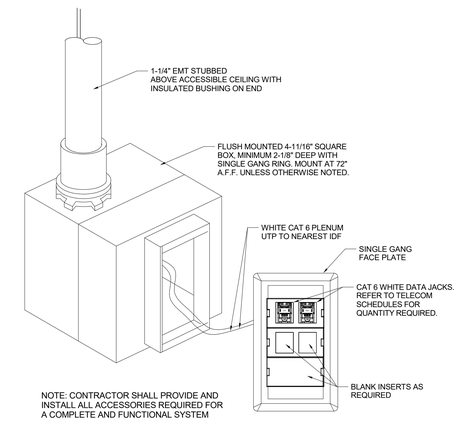


9 MONITOR LOCATION
N.T.S.



10 DIGITAL SIGNAGE LOCATION
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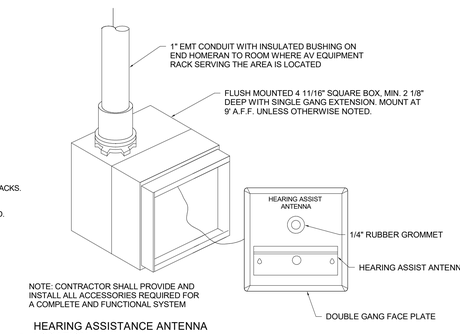

11 HEARING ASSISTANCE ANTENNA LOCATION
N.T.S.

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TECHNOLOGY DETAILS

T400

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