ADDENDUM NO. 01

July 09, 2025

ZCS New Early Learning Center/Educational Services Center
TBD
Zionsville, IN 46077

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 June 24, 2025, by Fanning Howey Associates (Architect). Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1 - 3 and attached Fanning Howey Associates, Inc., Addendum No. 01, July 9, 2025, consisting of 23 items, 5 pages, and 99 drawings.

A. 00 20 01 – INFORMATION AVAILABLE TO BIDDERS

1. Specification section added in entirety as part of Addendum 01. This section shall be reviewed by all Bidding Contractors.

   Section includes reference to the following:
   - "General Guidelines for Right-of-Way Activities"
   - "Zionsville CS New ELC / ESC Owner's Project Requirements – Design Phase"
   - "Zionsville CS New ELC / ESC Commissioning Plan – Design Phase"
   - Pre-Award Meeting Schedule (subject to change)

B. 01 12 00 – MULTIPLE CONTRACT SUMMARY

1. Revised specification section and reissued in entirety. Specific changes are noted below for reference. All Bidder Contractors shall review and incorporate revisions.

2. Bid Category #01- General Trades

Add the following specification sections:

Section	01 53 10	Fences (Temporary Security)
Section	01 53 20	Tree and Plant Protection
Section	22 13 23	Sanitary Waste Interceptors

Delete the following specification sections:

Section	08 81 13	Decorative Glass Glazing

Add the following clarifications:
Clarification #'s 36, 37, 38, 39 & 40.

Revise the following clarifications:
Clarification #'s 35.

3. Bid Category #02 – Asphalt Paving

Add the following clarifications:
Clarification #'s 7 & 8.

Revise the following clarifications:
Clarification #'s 1 & 2.

4. Bid Category #04 – Structural Steel

Add the following clarifications:
Clarification #'s 6.

5. Bid Category #06 – Metal Studs, Drywall & Acoustic Ceilings

Add the following specification sections:

Section	09 84 33	Sound-Absorbing Wall Units

6. Bid Category #07 – Aluminum Storefront & Glazing

Add the following specification sections:

Section	08 81 13	Decorative Glass Glazing

Add the following clarifications:
Clarification #'s 7.

7. Bid Category #09 – Painting

Add the following clarifications:
Clarification #'s 2.

8. Bid Category #11 – Food Service Equipment

Add the following clarifications:
Clarification #'s 1, 2, 3, 4 & 5.

9. Bid Category #12 – Fire Suppression

Add the following clarifications:
Clarification #'s 8, 9, & 10.

10. Bid Category #13 - Plumbing

Delete the following specification sections:
Section 22 13 23 Sanitary Waste Interceptors

Add the following clarifications:
Clarification #'s 13, 14, & 15.

11. Bid Category #14 - HVAC

Add the following clarifications:
Clarification #'s 16, 17, & 18.

12. Bid Category #15 – Electrical & Technology

Add the following clarifications:
Clarification #'s 16 & 17.

C. 01 32 00 – SCHEDULES AND REPORTS

1. The Guideline Schedule is included as attachment within Addendum 01. All Bidding Contractors shall review the Guideline Schedule for familiarity and bidding purposes.

D. 01 55 00 – ACCESS ROADS AND PARKING AREAS & GROUNDSKEEPING

1. Update Paragraph 1.01 – RELATED DOCUMENTS to include the following:

   B. Exterior Site Logistics Plan
   C. Asphalt Paving Sequence Plan
   D. Sitework Description Plan

2. All documents noted above are included as attachments to Addendum 01 and are to be reviewed by all Bidding Contractors and incorporated as part of the Construction Documents.

SECTION 00 20 00 - INFORMATION AVAILABLE TO BIDDERS

A. "General Guidelines for Right-of-Way Activities": This document provides guidance and minimum requirements on a variety of Work activities regarding Countrymark Refining and Logistics, LLC (Countrymark) pipelines, facilities, and right-of way (ROW). Contractors shall meet or exceed the Project's, Owner's, Regulatory Agencies' (local, state, or federal, as applicable), or Utility Owners', most stringent safety requirements.

B. "Zionsville CS New ELC / ESC Owner's Project Requirements – Design Phase" includes additional information related to 01 91 13 – General Commissioning Requirements. This document is not a part of the Construction Documents and is enclosed for informational use only.

C. "Zionsville CS New ELC / ESC Commissioning Plan – Design Phase" includes additional information related to 01 91 13 – General Commissioning Requirements. This document is not a part of the Construction Documents and is enclosed for informational use only.

D. Pre-Award Meetings will be held virtually via Microsoft Teams. Specific links to each meeting will be distributed after Bid Opening.

Bid Category No. 01	July 29, 2025	3:00 PM
Bid Category No. 02	July 28, 2025	8:00 AM
Bid Category No. 03	July 28, 2025	9:00 AM
Bid Category No. 04	July 28, 2025	10:00 AM
Bid Category No. 05	July 28, 2025	11:00 AM
Bid Category No. 06	July 28, 2025	12:30 PM
Bid Category No. 07	July 28, 2025	1:30 PM
Bid Category No. 08	July 28, 2025	2:30 PM
Bid Category No. 09	July 28, 2025	3:30 PM
Bid Category No. 10	July 29, 2025	8:00 AM
Bid Category No. 11	July 29, 2025	9:00 AM
Bid Category No. 12	July 29, 2025	10:00 AM
Bid Category No. 13	July 29, 2025	11:00 PM
Bid Category No. 14	July 29, 2025	1:00 PM
Bid Category No. 15	July 29, 2025	2:00 PM

END OF SECTION 00 20 00

Rev. 3 (08/17/2021)

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ATTACHMENTS

1	Right of Way and Engineering Contacts
2	Application for Design Plan Submission and Encroachment Review
3	Blasting Plan Submission Form

Purpose and Scope

This document provides guidance on how to safely perform a variety of excavation activities around Countrymark Refining and Logistics, LLC ("CountryMark") pipelines, facilities and right-of-way ("ROW"). It is intended for landowners, utility owners, general contractors and their sub-contractors, pipeline/utility contractors, real estate developers, brokers and agents, lending officers and title underwriters, engineers, architects, surveyors, and local/governmental elected staffs ("Crossing Party").

The intent of this Specification is to provide clear and consistent sets of requirements that will (1) reduce the risk of damage to our pipeline and related facilities; (2) ensure unencumbered access to our right-of-way and pipeline facilities and the availability of adequate workspace for routine maintenance, future inspection, and/or repair work on our pipeline; and (3) enable the effective corrosion protection of our pipeline.

All such activities and projects that are performed near CountryMark's pipeline facilities are subject to formal review by CountryMark prior to issuance of final written approval. Depending on the scope of the project and its impact on CountryMark's pipeline facilities, additional engineering requirements and protective measures may apply. Furthermore, any damage caused by the Encroaching Party to CountryMark's pipeline(s), the pipeline cathodic protection system, or other CountryMark assets is the sole responsibility of the Encroaching Party. CountryMark will pursue reimbursement for all costs associated with the event including, but not limited to, excavation services, inspection services, pipeline repairs, and loss of operations.

The following requirements are not only the policy of CountryMark, but comply with regulations set forth by the United States Department of Transportation, Safety Regulations, 49 CFR, Part 195.

The transmittal of this Specification does not constitute CountryMark's approval or permission for the Crossing Party to begin construction or work within or across the pipeline right-of-way. Work may not commence until written authorization approving such work has been issued by CountryMark.

ONE CALL SYSTEM - General

STEPS FOR SAFE DIGGING

1) Call 811 the required number of days before excavation is scheduled to begin.
2) If within CountryMark right-of-way or if there is presence of a pipeline, call CountryMark's One Call Center 812-838-8500.
3) Outline the proposed digging area with white paint or flags. CountryMark will erect temporary pipeline markers/flags identifying the location of the pipeline within the work area, and will provide information on how to respond should the pipeline be damaged or a commodity release occur. All personnel operating equipment over or around the pipeline must be made aware of its location and what to do if they make contact with the pipeline, see below.
4) A CountryMark representative must be present when work is performed within the right-of-way. Always hand dig within a tolerance zone of 24 inches. The tolerance zone is a horizontal area, measured from the marks, where the excavator shall excavate using hand tools (or other

non-invasive tools) to protect the marked facilities until they are exposed. The tolerance zone includes the area from the ground surface and around the facility.

When excavation is to take place within the specified tolerance zone, the excavator exercises such reasonable care as may be necessary for the protection of any facility in or near the excavation area. Methods to consider, based on certain climate or geographical conditions include hand digging when practical (pot holing), soft digging, vacuum excavation methods, pneumatic hand tools, other mechanical methods with the approval of CountryMark, or other technical methods that may be developed. Hand digging and non-invasive methods are not required for pavement removal.

An excavator discovering or causing damage to the facility must notify CountryMark's One Call Center 812-838-8500. All breaks, leaks, nicks, dents, gouges, or other damages to facility lines, conduits, coatings, or cathodic protection must be reported.

If the damage results in the escape of any flammable, toxic, or corrosive gas or liquid or endangers life, health, or property, the excavator responsible must immediately notify 911, the State One Call Center (811) and CountryMark. The excavator must take reasonable measures to protect everyone in immediate danger, including the general public, property and the environment until CountryMark or emergency responders arrive and complete their assessment.

The excavator protects all facilities from damage when backfilling an excavation. Trash, debris, coiled wire, or other material that could damage existing facilities or interfere with the accuracy of future locates must not be buried in the excavation.

Contractors installing underground facilities must notify CountryMark if the actual placement is different from the expected placement.

All stakeholders comply with all best practices and the following general guidelines prior to, during, and after any trenchless excavation.

Vacuum excavation, when used appropriately, is an efficient, safe and effective alternative to hand digging within the designated facility tolerance zone. Use of equipment shall also follow state/provincial laws and/or local ordinances.

1.0 Easement Information

General Conditions of an easement give the holder of the easement the right to operate a business in a safe and unencumbered manner. Easement Amendments & License Agreements attempt to change the legal document to reflect the physical changes to the property. These new arrangements may require the Crossing Party to:

1.1 Recognize the rights and needs of CountryMark by obtaining permission to encroach on the easement and follow the specifications for crossing the pipeline system.
1.2 If the pipeline needs to be altered, then all costs will be the responsibility of the Crossing Party.

1.3 Indemnify, and hold harmless, CountryMark from all claims and liabilities. In addition, the Crossing Party shall pay all costs and fees for responding to failures, or in the enforcement of all details in the performance of the encroachment or crossing.
1.4 Notify CountryMark 48 hours before working near the pipeline, and follow specifications and the directions of the CountryMark representative.
1.5 Develop diagrams and surveys with plan and profile views of the site and the method of construction including materials, equipment, personnel training and construction loads.

2.0 General Guidelines

2.1 The safety of the pipeline must be considered at all times. No attempt to probe for or engage in any construction activities which might damage the pipeline or coating is permitted.
2.2 Before any preliminary fieldwork or construction begins near CountryMark's pipeline, a determination of the exact location and elevation of the pipeline must be made. To coordinate this procedure, please contact our Right of Way Department (see Attachment 1 for a listing of contacts). CountryMark makes no assurance that its permanent pipeline markers are positioned directly over its pipeline(s). The relocation, removal, or destruction of CountryMark's pipeline markers are prohibited by federal law. Pipeline markers damaged or made unusable shall be repaired or replaced at the Encroaching Party's expense.
2.3 All proposed drawings/plans must be submitted to CountryMark's Engineering Department and Right of Way Department for review to determine to what extent, if any, the pipeline or right-of-way will be affected by the proposed construction and/or development. These drawings/plans must be prepared in strict compliance to Attachment 2. "Requirements for Submission of Design Plans"
2.4 CountryMark may require the property owner to provide proof of current ownership of the land where the proposed encroachment is to occur. Such proof may be in the form of a Title Commitment, Title Policy, or a certified copy of a recorded Conveyance Deed.
2.5 When any construction is conducted in or around our pipeline right-of-way, CountryMark's on-site representative must be present at all times. **NO WORK SHALL TAKE PLACE WITHOUT A COUNTRYMARK ON-SITE REPRESENTATIVE PRESENT.**
2.6 CountryMark must confirm any variance from these specifications in writing. The Crossing Party shall:

a) Contact CountryMark to re-mark a pipeline if the existing markers are inadequate for any reason, including disturbance during construction.
b) Not burn trash, brush, or other items or substance within 100 feet of any pipeline.
c) Not store any equipment or materials on the right-of-way. Full-access must be maintained to the pipeline(s) at all times. The stockpiling of items including soil, or topsoil over the pipeline(s) is not permitted.

d) Not construct any obstruction above or below ground (including, but not limited to, buildings, engineering structures, pavement, fences, refuse, pools and waste disposal systems) within CountryMark's right-of-way.
e) Not operate heavy equipment over any pipeline.
f) Cross as near perpendicular as possible to any pipelines.
g) Perform no power digging within 100 feet of the side of the pipeline unless a CountryMark representative is present.
h) Not cross the pipeline by auto tunneling, boring, or directional drilling methods unless approved and documented by CountryMark. A CountryMark representative must be present during this operation.
i) Not develop or build retaining walls, drive piling, or create an engineering works that develops or controls overburden loads that affect the pipeline without CountryMark's approval.
j) Not chisel, plow or rip the soil until inspected by a CountryMark representative. Rip no greater than 16 inches deep only after the exact position of the pipeline is known and not within three (3) feet of the outer edge of any pipeline.
k) Restore the site to its original condition except for items that are part of the approved change.

2.7 Depending on the type and nature of the encroachment, CountryMark may require the pipeline(s) within the proposed encroachment to be exposed, visually inspected, and backfilled by a CountryMark representative at the full expense of the Crossing Party. CountryMark will evaluate the cathodic protection system, including the coating type and condition, for suitability of service in relation to the proposed encroachment. Should CountryMark deem that the cathodic protection system and/or coating system is insufficient for any reason, CountryMark will repair or upgrade the system at the Crossing Party's expense to accommodate the proposed encroachment. Potential cathodic protection modifications can include, but are not limited to, equipment such as rectifiers, anode systems, test stations, casing pipe, and coating.

3.0 Excavation and Construction Restrictions

3.1 Excavation operations shall be performed in accordance with appropriate State "One Call" utility locating system requirements.
3.2 The Crossing Party will conduct "white-lining" of any proposed excavation areas. CountryMark will erect temporary pipeline markers/flags identifying the location of the pipeline within the work area.

Note: If proposing dredging activities within 150-feet of CountryMark's pipeline(s), a dredging plan must be submitted to CountryMark for review and approval.

3.3 When a Crossing Party excavates near CountryMark's pipeline, a CountryMark representative must locate the pipeline and determine the depth of cover before the Crossing Party begins excavation.

3.4 No equipment shall work directly over the pipeline. The Crossing Party shall install temporary fencing along CountryMark's right-of-way boundaries so that equipment will not inadvertently pass over the pipeline at locations other than those established for crossing (see Section 5.4)

3.5 When excavating within the right-of-way, the Crossing Party's excavator shall have a plate welded over the teeth of the bucket, and the side cutters must be removed prior to excavation. However, if within 24 inches of the outer edge of the pipeline (this "tolerance zone" extends on all sides of the pipe), only hand excavation, air cutting, and vacuum excavation are permitted.

3.6 No excavations shall be made on land adjacent to the pipeline that will in any way impair, withdraw lateral support, cause subsidence, create the accumulation of water, or cause damage to the pipeline right-of-way.

3.7 The Crossing Party shall ensure all exaction work complies with OSHA's excavation standards outlined in 29 CFR 1926 and correct any noncompliant excavation site before CountryMark's representative or the Crossing Party enters the site to perform work.

3.8 If conditions require, the Crossing Party shall be directed by CountryMark to install sand or cement bags or other suitable insulating materials to maintain proper vertical clearance from the pipeline.

3.9 At any location where the pipeline is exposed, the Crossing Party shall provide CountryMark the opportunity to inspect the pipeline condition, install cathodic protection test leads, and/or install underground warning mesh.

3.10 The maximum unsupported exposed length of CountryMark's pipelines shall be 10 feet. When required, the pipeline shall be supported with grout and sandbags or padded skids (cribbing) on each side of the crossing. At no time shall the pipeline be used as a brace to support equipment or sheeting/shoring materials. Prior to backfilling the hole, the cribbing must be removed and replaced with sand bags or good, compacted fill in order to minimize settling of the pipeline.

a) Backfill and compaction shall be performed to the satisfaction and in the presence of a CountryMark representative. Within five (5) feet of the pipeline crossing location, the Crossing Party shall place at least 12 inches of sand with no sharp gravel, rock, hard clods, vegetation, or other debris on all sides of any pipeline, and remaining backfill shall be placed so as not to disturb this padding material or damage the pipeline. Backfill over the pipeline shall be compacted by hand until 18 inches of cover is achieved. The disturbed ground shall be compacted to the same degree of compaction of surrounding areas. The Crossing Party shall restore the site to its original condition except for items that are part of the CountryMark approved change.

SPECIFIC GUIDELINES

4.0 Cover, Grading, and Drainage

4.1 Cover and Grading:

a) The existing cover over the pipeline shall not be modified without CountryMark's written approval.
b) The final grading shall net a minimum cover of 36 inches over the pipeline.
c) In areas where buildings are proposed within 50 feet of the pipeline or due to other surface improvements and/or in areas determined by CountryMark, final grading shall net a minimum cover of 48 inches over the pipeline.
d) The maximum allowable constructed cross-slope within the right-of-way shall be 5H:1V and shall never be greater than the existing cross-slope.
e) The maximum allowable cover/soil shall not exceed six (6) feet without CountryMark's written approval.
f) Use of vibratory equipment larger than walk-behind units are not permitted within 25 feet of the pipeline.
g) Temporary roads for construction activities may require additional cover and road matting to protect the pipeline from additional loading stresses.
h) No amount of cover shall be either removed from, or added to, a pipeline right-of-way without written approval by CountryMark. This recommendation applies to removal or burying of rocks and ditching for farm drainage, as an example.

4.2 Drainage:

Drainage and septic systems work on the principle of gravity. It is important that grade elevations and slope be considered before these systems are created. Septic systems and their leach fields are not permitted in the pipeline right-of-way. This area is reserved for heavy construction equipment for the pipeline. Crossing the pipeline with these systems must be accomplished with non-perforated solid pipe buried deep enough to carry heavy loads.

a) Detention ponds, lakes, structures or any type of impoundment of water, temporary or permanent, are prohibited within the right-of-way.
b) Culverts must not be located within 25 feet of the pipeline or CountryMark's right-of-way, whichever is greater.
c) Any modification or creating of a drainage pattern that affects CountryMark's right-of-way must be addressed such that erosion of pipeline cover is controlled.
d) If there are no other options for relocating the culvert, or if the culvert is on public right-of-way (federal, state, or local), then CountryMark must approve the design. While reviewing the design, consideration shall be given to additional stress placed on the pipeline, access to the pipeline for maintenance, and the effect of any new drainage patters might have on the pipeline right-of-way.

e) For streams, drainage channels, and ditches, a minimum cover of 60 inches is required between the pipeline and the bottom of the drainage canal or ditch (see section 5.4 for road drainage ditches).

5.0 Aboveground and Underground Structures

To maintain safe operating pipelines, CountryMark routinely performs maintenance and required federal/state inspections on its pipelines. In order to perform these critical activities, CountryMark's maintenance personnel must be able to access the pipeline right-of-way, as provided in the easement agreement. Required access is accomplished by keeping the area on either side of the pipeline contained within the right-of-way clear of trees, shrubs, buildings, structures, or any other encroachments that might interfere with access to the pipeline. CountryMark typically uses aerial patrol to survey the right-of-way, providing critical information regarding potential issues involving the safe operation of the pipeline. The landowner, as well as potential land purchasers and/or developers, have the obligation to respect the pipeline right-of-way by not placing obstructions or encroachments within the right-of-way and in planning developments in a manner that maintains the visibility and accessibility of the right-of-way, such as in the platting of "green belts" or common ground across the right-of-way area.

The Encroaching Party should provide CountryMark with a plan and profile drawing indicating the existing and proposed property improvements within 100 feet of the pipeline, and such drawings should depict the distance and relationship between the property improvements and pipeline. At the Encroaching Party's request, CountryMark will locate and mark its pipeline location to enable the location of the pipeline to be accurately surveyed and shown on the plan and profile drawings. CountryMark will have a representative at the site during improvement activities.

5.1 General Requirements

a) Buildings or other structures, including, but without limitation, overhanging balconies, patios, decks, swimming pools, wells, walls, septic systems, propane tanks, transformer pads, manholes, valve boxes, storm drain inlets, utility poles, the storage of materials, or any other item which will create obstruction or prevent the inspection of the right-of-way by air or foot, shall not be erected within the right-of-way.

b) The Crossing Party shall not develop or build retaining walls, drive piling, or sheeting, or install an engineered structure that develops or controls overburden loads that will affect the pipeline.

c) Deep foundations which include piers, caissons, drilled shafts, bored piles, and cast-in-situ piles located within 500 feet of the pipeline shall be installed/drilled using an auger.

d) Any deviation for aboveground and underground structures will be reviewed by CountryMark on a *case-by-case basis.*

5.2 Gardening and Landscaping

a) Trees, shrubs and bushes are not permitted within the right-of-way. Trees planted outside the right-of-way shall be placed so branches and limbs will not overhang the pipeline right-of-way as the tree matures. CountryMark may trim/remove overhanging branches and limbs that encroach into the right-of-way.
b) CountryMark may give written approval for flowerbeds, vegetable gardens, and lawns permitted within the right-of-way. CountryMark is not responsible for replacing any plantings located within the right-of-way, as clearing vegetation may be necessary.

5.3 Fences and Walls

a) Privacy fences or fences that prevent access to the right-of-way are not permitted.
b) All other fence installations within the right-of-way will be reviewed for approval by CountryMark on a *case-by-case* bases. Upon CountryMark's written approval, fences shall be constructed with a 12 to 16-foot gate, minimum, or removable panel sections across the entire width of the right-of-way to allow CountryMark access to inspect and maintain the pipeline.
c) Fence posts shall not be installed within 5 feet of the pipeline and must be equidistant if crossing the pipeline.
d) Fences that run parallel to the pipeline shall be installed at least 10-feet from the pipeline.
e) No fence shall cross a pipeline right-of-way, when reasonably possible, at a less than 60-degree angle to the pipeline.
f) Masonry, brick, or stone walls are not permitted on the right-of-way.

5.4 Roads, Driveways, Sidewalks, and Parking Areas

Permanent vehicle crossings, such as roads, that are planned over or near a CountryMark pipeline must meet the clearance requirements as defined by CountryMark. The crossing design will require evaluation by CountryMark to ensure that the installation/crossing will not cause an excessive amount of stress on the underlying pipeline. The crossing party shall provide CountryMark with a plan and profile drawing indicating the existing and proposed elevations of the proposed project; the pipeline and buried utilities within 25 feet of either side of the crossing shall be clearly indicated in all views.

a) Roads, driveways, sidewalks, or parking areas are strictly prohibited. When extenuating circumstances arise, these items may be reviewed by CountryMark on a case-by-case basis.
b) The proposed surface encroachments shall cross a buried pipeline, where reasonably possible, in a perpendicular alignment (90-degrees) to minimize the

length of the impact to the underground facility, but in no event less than 45-degrees.

c) Driveways or lanes shall cross pipelines at no less than 60-degree angle and shall not run parallel within 25 feet of the pipeline

d) The maximum allowable cover shall not exceed six (6) feet without CountryMark's written approval.

e) Use of vibratory equipment larger than walk-behind units is not permitted within 25-feet of the pipeline.

f) For roads and driveways, a minimum cover of 48 inches with a net cover of 36 inches of undisturbed soil is required above the pipeline.

g) A minimum cover of 36 inches over the pipeline is required at road drainage ditches.

h) Stockpiling of materials on the right-of-way is not permitted. These materials include, but are not limited to soil, snow, stone, boulders, trees, brush, grass, clipping, leaves, etc.

i) In the event that CountryMark determines that additional measures are necessary to provide adequate protection for the pipeline, the crossing party shall provide additional protection as approved by CountryMark. Some alternatives for additional protection are the provision of additional earn cover over the pipeline, the installation of reinforced concrete pads or pre-stressed concrete beams over the pipeline, or lowering of the pipeline.

j) Temporary roads for construction activities may require additional cover and road matting to protect the pipeline from additional loading stresses.

k) A geotechnical report may be required to identify soil profile components. This subsoil study will show the load array characteristics of the site.

6.0 Foreign Utility Crossings

"Foreign Utility" (non-CountryMark pipeline) means any hazardous liquid, gas transmission line, main, service connections, and utility pipe such as water line, sewer line, or any other pipeline installed within the right-of-way of CountryMark's pipeline.

6.1 General Requirements

a) Utilities shall cross perpendicular to the pipeline.

b) Utilities are required to cross beneath the pipeline with a minimum clearance of 24 inches.

c) Sand or select fill shall be placed between the pipeline and utility (See Section 3.7).

d) Warning tape, in accordance with A.P.W.A Uniform Color Code, shall be placed above utility, 12 inches below ground, for a distance of 25 feet on either side of the crossing.

e) Pipeline markers or identifying markers shall be located to indicate the route of the foreign pipeline across the right-of-way of CountryMark's pipeline. Such

markers shall adhere to regulatory standards and API Recommended Practice 1109, *Marking Liquid Petroleum Pipeline Facilities*.

f) Splice boxes, service risers, energized equipment, etc., are not permitted within the right-of-way.

g) "Cable" means any power or communications cable, including fiber optic.

h) CountryMark may request an "as-built" drawing depicting the verified angle of crossing, depth of the pipeline, and the clearance of the foreign utility. This "as-built" drawing provides important information for later excavations and operational design compliance data.

i) Trenchless Excavations:

[1] Utilities installed by a trenchless excavation method (directional drilling, jacking, slick boring, etc.) shall be reviewed on a *case-by-case* basis. Before beginning any conventional bore/utility service line boring, drilling or tunneling across or within CountryMark's pipeline right-of-way, design approval and permission should be received from a CountryMark representative.

[2] CountryMark reserves the right to select the method of crossing for the proposed utility.

[3] A minimum clearance of 48 inches (4 feet) below the pipeline is required.

[4] For directional drilling operations, a tracking system is required to verify the exact location of the drill head.

[5] For perpendicular crossings, a 4 feet by 4 feet excavation window, 24 inches below the pipeline is required for visual inspection of the pipeline to ensure the drill (or bore) does not affect the pipeline.

[6] Blind boring is not permitted within CountryMark's right-of-way.

[7] When trenchless excavations are authorized by CountryMark parallel or nearly parallel to and within 25 feet of an existing pipeline, observation holes shall be excavated at 25-foot intervals to monitor the progress and horizontal/vertical location of the drill head. Nearly parallel means parallel to, or running at an angle 60 degrees or less to the pipeline.

[8] CountryMark must be provided with an advance copy of the horizontal directional drill (HDD) plan for the trenchless excavation which specifies how the HDD will be tracked, monitored and controlled at least two weeks before work is to commence. The plan must detail preventative measures to prevent conflicts with CountryMark's existing facility. The plan must state the planned HDD bore diameters, rod lengths, ream diameters, method of guidance, method of drill head tracking, etc. Additionally, the plan needs to include procedures for continuous monitoring and reporting of the drill head location, and state the appropriate vertical and horizontal deviation tolerances for the HDD operations in accordance with API RP 1172 – "6 Final Design". The procedure must include reporting requirements and procedures to

correct or shut down the HDD trajectory should the operation exceed the established tolerances. CountryMark must be notified immediately if tolerances are compromised and shall be involved in the recommencement of operations after tolerances are exceeded.

6.2 Metallic Utilities:

a) Cathodic protection bonds and potential leads shall be installed at the expense of and by the Crossing Party at all their crossings and terminate them at aboveground locations. CountryMark will install test leads on our existing pipeline.
b) Utilities shall be coated with a non-conductive coating for a distance of 50 feet on either side of the pipeline crossing.
c) Ductile water pipe shall include nitrile gaskets within 50 feet of the pipeline crossing or anywhere within 25 feet of horizontal offset locations.
d) A warning tape, or warning mesh, shall be used to indicate the location of a foreign pipeline for a distance of 25 feet on either side of CountryMark's pipeline.

6.3 Non-Metallic Utilities:

a) Utilities shall be wrapped with tracer wire within the width of the right-of-way.
b) Natural gas (or other industrial gases) lines shall be encased in a 6-inch envelope of yellow 3,000 psi concrete across the right-of-way for a minimum distance of 10 feet to each side of each CountryMark pipeline(s) across the right-of-way.
c) PVC water pipe shall include nitrile gaskets within 50 feet of the pipeline crossing or anywhere within 25 feet of horizontal offset locations.

6.4 Underwater Line Crossings:

a) For underwater line location procedures, refer to Section 3.2.
b) The Encroaching Party must provide qualified diving inspectors (CountryMark must approve qualifications) to CountryMark for use during the crossing activity with no cost to CountryMark.
c) The Encroaching Party must place sacks filled with sand and cement between CountryMark's pipeline(s) and the encroaching utility to provide and maintain the required minimum vertical clearance between the two utilities.

6.5 Electrical, Fiber-Optic, and Communication Cables:

a) Buried Cables:

[1] "Cable" is defined as all wires and fiber optic facilities that transmit electrical power or communication signals.

[2] Electrical conductors/cable installations shall meet minimum requirements of National Electric Code for buried conductors and be adequately shielded and be impervious to hydrocarbon liquids.

[3] Cables are required to cross beneath the pipeline with a minimum clearance of 24 inches and requires implementation of corrosion control procedures.

[4] Sand or select fill shall be placed between the pipeline and cable (see Section 3.8).

[5] Critical buried cables shall be installed in Schedule 80 PVC pipe and encased in a 6-inch envelope of color coded (i.e. red for electrical cable, orange for communication cable) 3,000 psi concrete for a minimum distance of 10 feet to each side of each CountryMark pipeline(s) across the right-of-way. The top of the concrete slab shall have at least 24-inch clearance of CountryMark's pipeline.

[6] Warning tape, in accordance with A.P.W.A Uniform Color Code, shall be placed above the utility, 12 inches below ground, for a distance of 25 feet on either side of the crossing.

[7] Cable crossings shall be installed with warning tape above the cable and signage aboveground. An extra length cable should be looped to help with future excavations.

[8] All power cables shall be marked with red signs indicating "buried power cable", according to National Electric Code standards.

[9] After construction of cables with an operating voltage greater than 13.8kV, CountryMark will investigate the possibility of induced current on the pipeline. If AC interference is evident, the Crossing Party shall be responsible for the cost of mitigating the AC interference.

b) Aboveground Cables:

[1] A minimum of 20 feet of above-grade clearance for a distance of 25 feet on each side of the pipeline is required.

[2] Mechanical supports and service drops including poles, guy wires, ground rods, anchors, etc. are not permitted with CountryMark's right-of-way.

7.0 Temporary Access Roads and Heavy/Construction Vehicle Crossings

7.1 General Requirements

a) Each location is unique and shall be evaluated by a CountryMark representative to determine site-specific protective requirements.

b) The Encroaching Party shall provide CountryMark information as to the type, model, size, and axle weight of construction equipment that will be used over or near the pipeline(s).

c) Equipment with tracks, as opposed to having tires, is preferred if travel over CountryMark's pipeline is required.

d) Trucks carrying a maximum axle load up to 15,000 pounds may cross the right-of-way after CountryMark has confirmed a minimum 48 inches over the pipeline.

e) When temporary fill must be added, colored sheets of plastic shall be placed under the temporary fill at original grade so that the original grade will not be disturbed when the temporary fill is removed.

f) Site conditions (such as damp soil) may require that the crossing location be matted or provided with additional cover to compensate for soil displacement due to the subsidence of tires.

g) For all other cases, earthen ramps, swamp mats, air bridges, reinforced concrete slabs, one (1) foot thick timber matting, or steel plates may be required.

h) If CountryMark determines that matting is required, the mats shall be placed on a minimum of two (2) feet undisturbed earth above the pipeline and oriented with the timbers perpendicular (across) the pipeline. Enough mats shall be placed to cover the complete width of the proposed crossing.

i) At all crossing locations, the Crossing Party will provide 12" of clean AASHTO 1 stone over the pipeline right-of-way.

j) CountryMark will limit the number of temporary construction roads constructed by the Crossing Party.

k) Alternate means of protecting the pipeline must be approved by CountryMark.

8.0 Railroad Crossings

8.1 General Requirements:

a) A minimum clearance of 72 inches is required between railroad tracks and the pipeline.

b) A minimum cover of 36 inches is required between the bottom of drainage ditches on either side of a railroad and the pipeline.

c) For railroad main lines, the pipeline crossing must comply with local railroad guidelines that delineate the requirements for carrier pipe, casing pipe, and clearances. CountryMark shall be consulted for the review of any State submittals.

d) For private spur crossings, CountryMark will determine the railroad entity having jurisdictional authority to dictate crossing requirements

9.0 Farming and Field Tile

9.1 General Requirements:

a) Field tile running parallel to the pipeline shall be spaced 10 feet from the centerline of the pipeline.

b) File tile shall cross the pipeline perpendicularly with a clearance of 12 inches above or below the pipeline.

c) Deep plowing or "ripping" operations shall be approved by and coordinated with CountryMark.

10.0 Construction-Induced Vibrations

10.1 General Requirements

a) Construction activities that generate ground vibrations, including, but without limitation, pile driving, sheet driving, soil compaction work, jackhammering, or ramming shall be reviewed by CountryMark on a *case-by-case* basis.

b) If the Crossing Party anticipates such an activity with 10 feet of the pipeline, then continuous testing monitored by seismograph is located directly over the pipeline at the closest point to the activity must be conducted. The Crossing Party shall provide, at their expense, the monitoring service which must be approved by CountryMark.

c) The particle velocity of any one component of a three-component seismograph must not exceed 2.0 inches per second as recorded on the seismograph placed directly over the pipeline.

11.0 Blasting Operations

11.1 Blasting within 500 feet of the pipeline right-of-way:

a) The Crossing Party must submit a blast plan to CountryMark for review and approval. Verbal and written notice will be given 14 and 21 days respectively.

b) Blasting plans must include the following information:

- Dates blasting to occur
- Explosive type
- Maximum shot hole depth and diameter
- Number of holes and spacing
- Delay pattern
- Delay types and intervals
- Depth of overburden
- Depth of blast area
- Maximum charge per hole, per delay
- Show drilling/blasting pattern plan and profile in relation to CountryMark facilities
- Calculated radiant peak particle velocity (PPV) at varying distances from the pipeline at the pipeline itself
- State permit (copy)
- Blasting contractor qualifications and insurance certificate (copy)
- Blasting Safety Plan (copy)

The Crossing Party shall compete Attachment 3, "Blasting Plan Submission Form", and include this form with their submission to CountryMark.

c) The Crossing Party shall arrange for a CountryMark representative to be present to witness the blasting operations.

11.2 Blasting within 300 feet of the pipeline right-of-way:
(Adds to or replaces items in section 12.1)

a) Blasting shall be monitored by a seismograph located directly over the pipeline at its closest point to the blast hole(s). The Crossing Party shall provide, at their expense, the monitoring service, which must be approved by CountryMark.
b) The particle velocity of any one component of a three-component seismograph must not exceed 2.0 inches per second as recorded on the seismograph placed on the ground directly over the pipeline.
c) For blast testing, an initial test blast using a maximum charge of one pound shall be performed. The Crossing Party shall detonate the first test blast with all necessary monitoring equipment in place to observe the results of the proposed blast design. Each subsequent test blast may be set and detonated only after the seismograph reading from the previous test blast indicates that further blasting can be safely conducted.
d) Routine production blasting may be initiated after completion of a successful test blast, with allowable charge based on the seismograph vibration recordings of test blasts. However, all blasting must be continuously monitored by a seismograph. The velocity recorded must not exceed the 2.0 inches per second limit noted above.

11.3 Blasting within 50 feet of the pipeline right-of-way:
(Adds or replaced items in section 12.2)

a) The Crossing Party shall hire a consulting firm that specializes in underground blasting to conduct the seismograph survey and certify the results.
b) CountryMark will approve the Crossing Party's selection of consulting firms that will conduct the seismographic surveys before starting any blasting operation.

11.4 Special Requirements:

a) For multiple-delay blasting, the Crossing Party shall begin the blasting sequence at the charge closest to the pipeline and progress away from the pipeline.
b) If seismographic readings above the limit stated in item 12.2.b of this section are recorded, the pipeline must be exposed and inspected for possible damage and/ or product release. The Crossing Party conducting blasting operations is responsible for all expenses related to the exposure and any subsequent repairs necessitated by the operation.
c) At CountryMark's request, the Crossing Party shall install sheet piling, open trench channels, and/or matting to protect the pipeline during blasting.

12.0 Seismic Vibrating Operations

12.1 Seismic vibrating within 500 feet of the pipeline right-of-way:

a) The Crossing Party must submit a seismic vibrating plan to CountryMark for review and approval. Verbal or written notice will be given 14 and 21 days respectively.
b) Seismic vibrating plans, when using Vibroseis System Vibrators to radiate ground vibrations, must include information on soil conditions and depth of exploration, the anticipated number and type of vibrations, type and weight of vehicle, and peak force of equipment.
c) The peak force by vehicle weight shall not exceed 45,000 pounds.
d) The Crossing Party shall also arrange for a CountryMark representative to be present to witness the seismic vibrating operation.

12.2 Seismic vibrating within 100 feet of the pipeline right of way:

a) Vibration shall be monitored by a seismograph located directly over the pipeline at its closest point to the vibrator(s). The Crossing Party shall provide, at their expense, the monitoring service, which must be approved by CountryMark.
b) The Crossing Party shall determine and limit the maximum peak force allowed under continuous seismographic vibration monitoring such that peak particle velocity will not exceed 2.0 inches per second.
c) Seismic vibration surveys shall not be conducted closer than 100 feet to the pipeline.

12.3 Special Requirements:

a) If seismographic readings above the limit stated in item 12.2.b of this section are recorded, the pipeline must be exposed and inspected for possible damage and/or product release. The Crossing Party conducting seismic vibrating operations is responsible for all expenses related to the exposure and any subsequent repairs necessitated by the operation.
b) At CountryMark's request, the Crossing Party shall install sheet piling and/or open trench channels to protect the pipeline during seismic vibrating operations.

13.0 Wind Turbines

13.1 Setback Distance from Pipelines

a) Wind turbine structures shall be set back from any CountryMark pipeline at least a distance equal to 110% of the structure height, which is defined as the height of the entire wind turbine system as measured from the bottom of the

base to the highest vertical point of the system including the base and tower at the highest reach of the turbines or blades.

b) No facilities associated with a wind turbine installation project shall be permitted to be installed within the pipeline easement.

c) Warning lights shall be installed on all wind turbines that are located within 1,200 feet of any CountryMark pipeline.

13.2 Construction Equipment and Crane Crossings

a) All temporary access roads and heavy/construction vehicle crossing shall comply with Section 7 above.

b) Where cranes and other maintenance vehicles will need to cross CountryMark pipelines on a routine permanent basis for maintenance of the turbine(s), permanent crossing locations must be established, an encroachment agreement must be signed by the landowner and facility owner, and permanent crossing protections must be installed to the satisfaction of CountryMark.

c) Construction materials or equipment shall not be transported longitudinally over CountryMark's pipelines.

13.3 Underground Utilities

a) Cables and electrical conduit shall comply with Section 6.5 above.

b) CountryMark may require at the expense of the Crossing Party an AC Arc Fault Study, specific to the Crossing Party's project encroachments. The study will determine if there is adequate AC Arc Fault protection and separation from CountryMark's facilities. CountryMark will arrange for the engineering, design and installation of AC mitigation and Lightning suppressions systems, as deemed necessary by the AC Arc Fault Study. The reasonable cost of such AC remediation and Lightning suppressions systems shall be submitted to the Crossing Party for review and approval, which approval shall not be unreasonably delayed, conditioned or withheld, and, upon approval such reasonable cost will be prepaid by the Crossing Party to CountryMark.

14.0 Solar Farms and Solar Panels

14.1 Setback Distance From Pipelines

a) No panels are permitted in the right-of-way.

b) Panels shall be 100 feet from any CountryMark pipeline.

c) Fencing shall comply with Section 5.3 above

14.2 Construction Equipment and Crane Crossings

a) All temporary access roads and heavy/construction vehicle crossing shall comply with Section 7 above.

b) Where cranes and other maintenance vehicles will need to cross CountryMark pipelines on a routine permanent basis for maintenance of the panel(s), permanent crossing locations must be established, an encroachment agreement must be signed by the landowner and facility owner, and permanent crossing protections must be installed to the satisfaction of CountryMark.

c) Construction materials or equipment shall not be transported longitudinally over CountryMark's pipelines.

14.3 Electrical Design and Risk Assessment

a) A risk assessment showing the impacts of the effects of a rise of earth potential (touch and step potentials and possibility of voltage exceeding the dielectric strength of pipeline coatings), under fault conditions, shall be submitted to CountryMark for consideration prior to the commencement of any construction work.

b) Cable diagrams shall be provided to CountryMark that show the proposed location of all electrical cables both buried and aboveground in the vicinity of the pipeline. All electrical cables should be kept out of the right-of-way.

c) Both buried and aboveground alternating current (AC) electrical cables shall be routed to avoid the cables running parallel to the pipeline; sub-stations are not permitted in the right-of-way.

14.4 Underground Utilities

a) CountryMark may require at the expense of the Crossing Party an AC Arc Fault Study, specific to the Crossing Party's project encroachments. The study will determine if there is adequate AC Arc Fault protection and separation from CountryMark's facilities. CountryMark will arrange for the engineering, design and installation of AC mitigation and Lightning suppressions systems, as deemed necessary by the AC Arc Fault Study. The reasonable cost of such AC remediation and Lightning suppressions systems shall be submitted to the Crossing Party for review and approval, which approval shall not be unreasonably delayed, conditioned or withheld, and, upon approval such reasonable cost will be prepaid by the Crossing Party to CountryMark.

b) Cables and electrical conduit shall comply with Section 6.5 above.

15.0 Deviations and Exceptions

15.1 When and where special circumstances dictate, deviation from these requirements must be formally approved by CountryMark in writing prior to commencement of any excavation or other construction activity that may impact the pipeline. Such deviations must be explained and documented prior to CountryMark for review and approval.

16.0 Additional Information and CountryMark Contacts

16.1 Should you have any questions regarding pipeline rights-of-ways or your specific easement, contact CountryMark's Right of Way Department at the applicable phone number listed in Attachment 1.

16.2 Should you have any questions regarding CountryMark's engineering or integrity requirements, contact the applicable phone number listed in Attachment 1.

ATTACHMENT 1: COUNTRYMARK RIGHT-OF-WAY AND ENGINEERING CONTACTS

Name	Responsibility	Phone/E-mail
Angie DeKemper	Land/Legal/ROW Supervisor	812-838-8153 Angie.Dekemper@Countrymark.com
Jason Kolley	Right-of-Way Agent	812-838-8160 Jason.Kolley@Countrymark.com
Darlene Risher	One Call Coordinator	812-838-8513 Darlene.Risher@Countrymark.com
Jamie Marques	Pipeline Engineer *Encroachment Design Review*	812-833-2598 Jamie.Marques@Countrymark.com
Blair Currie	Pipeline Integrity Manager	812-838-8555 Blair.Currie@Countrymark.com

CountryMark

ATTACHEMENT 2: APPLICATION FOR DESIGN PLAN SUBMISSION AND ENCROACHMENT REVIEW

INSTRUCTIONS

Prior to completing the following Application for Design Plan Submission and Encroachment Review (application), please review these instructions to determine if an application is required and to ensure that all necessary information has been obtained. Failure to follow these instructions and/or failure to provide the required information will delay the review process.

One Call Notification – To prevent damage to pipeline facilities from subsurface excavation or any activity that disturbs or impacts the depth of cover over underground utilities, CountryMark participates in "One-Call" organizations in all the states in which CountryMark has operating facilities. Placing a one-call notification will put you in contact with the appropriate CountryMark Representative.

CountryMark Field Representative Coordination – Discuss with CountryMark Field Representative a summary of the project and potential encroachments. The CountryMark Field Representative will determine if any additional information such as pipeline depth of cover is necessary and if an application is required.

Application and Plan Submission –

SUBMIT APPLICATION AND PLANS TO:

Countrymark Refining and Logistics, LLC ATTN: Jamie Marques 6701 Lower New Harmony Road Mt. Vernon, IN 47620	OR	Jamie.Marques@Countrymark.com And Angie.Dekemper@Countrymark.com With subject line reading: "Encroachment Review Application"

CountryMark requires a minimum of 60 days for technical review upon receipt of complete application and complete and accurate design plans. Submission of plans electronically to the above e-mail addresses is encouraged and acceptable.

Relocation or Modification – Should the initial encroachment review result in determination that CountryMark facilities must be relocated or modified because of the request, additional review time may be required. A Feasibility Study will be performed to prepare a preliminary scope of work, cost estimate, schedule and project plan; the cost of such preliminary engineering, survey and design will be borne by a party or parties other than CountryMark. A Preliminary Reimbursement and/or Full Construction Reimbursement Agreement must be executed before the design and relocation or modification will commence. A Letter of No Objection or Encroachment Agreement will be issued which will authorize the construction of the proposed encroachment under certain terms and conditions.

Permission/Notification – A fully-executed Approval Letter, Encroachment Agreement, Reimbursement Agreement, and/or Technical Services Agreement is needed prior to construction. CountryMark must be notified 10-days prior to construction to allow for scheduling of a CountryMark representative to be present. It is also the encroaching entity's responsibility to notify the owners of any other pipelines, communication lines, other third party property or facility owners located within the proposed project area and to secure any additional needed rights from these parties where CountryMark's rights are limited.

If construction of the aforementioned project does not commence within three calendar years of the issued approval letter date, the Crossing Party shall submit a new application. CountryMark shall have the right to reconsider the conditions and privileges granted, and have full right to consider current policies and procedures at the time of resubmission.

CountryMark

APPLICATION FOR DESIGN PLAN SUBMISSION AND ENCROACHMENT REVIEW

PROJECT INFORMATION & LOCATION **COUNTRYMARK REFINING AND LOGSTICS, LLC**

Project Title

Project Address | City | State | Zip Code

Latitude | Longitude | Municipality | County

APPLICANT INFORMATION:

Name and Title of Applicant

Company | E-mail Address | Phone Number

Address | City | State | Zip Code

LEGAL NAME OF INDIVIDUAL, COMPANY, OR ENTITY TO WHICH PERMISSION WILL BE GRANTED:

Name | Name and Title of authorized signatory for company or entity

Address | City | State | Zip Code

E-mail Address | Fax Number

PROJECT INVOLVES THE FOLLOWING IMPACTS TO COUNTRYMARK'S FACILITIES (CHECK ALL THAT APPLY):

- ◯ Cover, grading, and drainage pattern changes
- ◯ Aboveground and/or underground structures
- ◯ Road, driveway, sidewalks, and parking areas
- ◯ Utility crossings including gas, water (steam), sewer (storm/sanitary) – include trench backfill detail
- ◯ Electrical, fiber-optic, and communications cables
- ◯ Temporary access roads for crossing of heavy/construction equipment
- ◯ Railroad crossings
- ◯ Farm and field tile
- ◯ Construction-induced vibrations
- ◯ Blasting operations (attach BLASTING PLAN)
- ◯ Seismic vibrating operations (attach SEISMIC VIBRATING PLAN
- ◯ Exposure of the pipeline (attach SUPPORT PLAN)
- ◯ Boring, drilling, or tunneling near the pipeline (attach DRILL PLAN)
- ◯ Other: _____

CountryMark

APPLICATION MUST CONTAIN THE FOLLOWING:

◯ *Completed and Signed "Application for Design Plan Submission and Encroachment Review" Form*

◯ *Design Plans (1 paper copy and/or 1 electronic copy), depicting the following:*

◯ Field-verified location of CountryMark's pipeline(s) location and width of CountryMark's easement tract

_____	_____/_____/_____	_____
Name of CountryMark Employee	**Date of Pipeline Locating Activity**	**Design One Call No.**

◯ Field-verified depth of CountryMark's pipeline along all proposed road or utility crossings, drainage channels, and all other areas of proposed grade change within the pipeline right-of-way (attach a copy of any field data provided by CountryMark Representative)

_____	_____/_____/_____
Name of CountryMark Employee	**Date of Pipeline Depth Investigation**

◯ CountryMark's pipeline(s) labeled "_-inch High Pressure Petroleum Products Pipeline or Crude Oil Pipeline (line type "-HPPPP-" or "-CPL-")

◯ CountryMark included on Utilities List, and Local Contact and phone numbers on plans

◯ CountryMark's pipeline(s) highlighted in yellow. List all plan sheets on which CountryMark facilities are located:

_____

◯ Location of ground disturbances (blasting, seismic testing, pile driving, jackhammering, etc. within 1,500 feet of CountryMark's pipeline(s)

◯ Proposed location(s) where construction equipment will cross the pipeline right-of-way

◯ Structure setback distances from the pipeline right-of-way and from the nearest pipeline

◯ Proposed landscaping within 25 feet of either side of the pipeline(s)

◯ Any permanent fencing that will limit/encumber CountryMark's access to the pipeline right-of-way

◯ If the drainage patter will be altered in any way over the CountryMark's pipeline(s), a drainage plan that identifies new flow paths and all inlet/outfall/collection points

◯ Right-of-Way Use Restrictions Specifications pages 1-20 included as part of final design plan (can be done by adding a drawing sheet to plans and appending (cut and paste) the specification onto this sheet.

For property improvements that involve grade/pavement alterations, road work (new construction or improvements of existing), utility crossings (buried or overhead), or other subsurface structures or on-surface structure installations within CountryMark's right-of-way:

◯ Separate plan and profile drawing of CountryMark's pipeline(s) for existing and proposed conditions.

◯ Subgrade details that show materials and thickness of each paving later/course.

◯ Amount of existing cover that will be removed or new cover added over the pipeline(s), and proposed final grade amount of cover over the pipeline(s).

◯ Clearances between CountryMark's pipeline(s) and any existing and new (buried or overhead) utilities that cross the pipeline right-of-way.

◯ Show the clearances between CountryMark's pipeline(s) and each proposed substructure at the two closest reference points.

◯ For any utility to be installed via boring, drilling, or tunneling, include a detailed procedure of this work with your design plans. Note: Blind boring is not permitted. CountryMark's pipeline(s) must be exposed during the bore operation to ensure that the bore head crosses safely underneath the pipeline(s).

CountryMark

◯ Indicate any areas of disturbances or other work that will require CountryMark's pipeline(s) to be exposed in order to perform any of your work.

◯ *Supplemental Plan Information (as applicable)*

◯ Blasting Vibrating Plan

◯ Seismic Vibrating Plan

◯ Support Plan

◯ Drill Plan

I hearby authorize CountryMark to contact the Engineer/Survey firm which prepared the drawings, survey, and attachments.

I certify that the information provided is accurate and I realize that incomplete information may delay processing or invalidate this application.

Signature of Application

By:_____

Name:_____Date:_____

Title:_____

CountryMark

ATTACHEMENT 3: Blasting Plan Submission Form

INFORMATION SECTION

Blasting Contractor –

Company Name: _____

Phone: _____

Email Address: _____

Contact Person: _____

Contracted by –

Company Name: _____

Address: _____

_____

Contact Person: _____

Address: _____

*Latitude: _____

*Longitude: _____

Location and Distance (in feet) to Nearest CountryMark Pipeline:_____

Date of Blasting: _____

EXPLOSIVES SECTION

Types of Explosives: _____

Max. Charge / Hole (lbs): _____

Charge Delay (ms): _____

No. of Holes: _____

Max. Depth of Charge (ft): _____

Max. Diameter of Charge (in): _____

Calculated Particle Velocity at a point –

Depth of Blast Area (ft): _____

Depth of Overburden (ft): _____

Type of Rock to be Blasted: _____

Density of Rock (lbs/cu-ft): _____

300 feet from blasting event (in/sec): _____

200 feet from blasting event (in/sec): _____

100 feet from blasting event (in/sec): _____

Directly above the pipeline (in/sec): _____@__ft.__

ATTACHMENT CHECKLIST

◯ Drilling/Blasting Pattern Sketch – include all depths, measurements, and delay patterns relative to CountryMark facility involved and each charge.
◯ State Approval Letter
◯ Blasting Contractor's Qualifications
◯ Basting Contractor's Certificate of Insurance
◯ Blasting Contractor's Safety Plan

OMMISSION OF ANY INFORMATION REQUESTED ABOVE WILL DELAY YOUR BLASTING PLAN REVIEW
CountryMark requires a minimum of 14 days for technical review uopon receipt of complete and accurate blasting plans

Zionsville CS New ELC / ESC

Zionsville Community Schools

Owner's Project Requirements – Design Phase

Submitted By
CMTA Commissioning
10411 Meeting Street
Prospect, KY 40059

Dates
Design Version: Construction Documents - 06/23/2025
Construction Version: 100% CD Set
Final Version: Living Document

CMTA
A LEGENCE Company

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I. Executive Summary

General

The Owner's Project Requirements (OPR) provide an explanation of the ideas, concepts and criteria that are considered to be very important to the owner, coming out of the programming and conceptual design phases and which are desired to be tracked throughout design and construction. The OPR is developed by the owner, with the assistance of the design team. The OPR provides the direction for the design team. The OPR document sets the functional goals that the design is judged against and establishes the basis of the criteria used during construction to verify actual performance. The OPR does not list items that are already required by code. The OPR is generally not a description of what specifically will be included in the project design, but is the more general feature and categorical performance criteria to be met by the design. Where practical and known, the OPR includes measurable indicators used to verify that the performance requirements were met.

The OPR will be followed by the basis of design or design narrative written by the design team and included with design package submissions. The basis of design documents the primary thought processes and assumptions behind the design decisions and describes the design elements being incorporated to meet the OPR.

II. Project Scope

General

This document is not a comprehensive project OPR, and does not include all project requirements and directives to the design team which could include: other disciplines such as architectural, structural, landscaping, civil, geotechnical and other earth work, utilities, specification Division 01 requirements, demolition, all the materials, furnishings and special construction disciplines, drawing, specification and calculation requirements, codes and references, etc.
This document focuses on the mechanical, energy and comfort related systems and on the sustainability requirements of the project. Other areas impacted by commissioning or commissioned systems are covered more broadly.

The design areas covered more thoroughly in this document are:

- Heating, ventilating, and air conditioning (HVAC) Systems
- Electrical Systems
- Domestic Water Heating Systems
- Sustainability
- Commissioning

And the design areas covered more peripherally in this document are:

- General requirements
- Design process
- Plumbing

OPR Process and Tracking

The following table lists the design disciplines and the party assigned to provide updated information to include within the OPR as the Project progresses. Changes should be tracked for all versions after the initial.

Design Area	Responsible Party for OPR Input	Status of Input
Overview and Scope	Fanning Howey	90% Construction Documents
General Requirements	Fanning Howey	90% Construction Documents
Design Process	Fanning Howey	90% Construction Documents
HVAC	CMTA	90% Construction Documents
Electrical	CMTA	90% Construction Documents
Commissioning	CMTA Cx	90% Construction Documents
Sustainability	--	90% Construction Documents
Building envelope	Fanning Howey	90% Construction Documents
Plumbing systems	CMTA	90% Construction Documents
Fire alarm	CMTA	90% Construction Documents
Data and Communications	--	90% Construction Documents
Security and Access	--	90% Construction Documents

III. General Information

The principles in this section describe the overall expectations for use and functionality of the building set forth by Zionsville Community Schools.

Project Description

The building will be utilized for both academic and general business. The facility will function as an early learning center, preschool, summer school, as well as a year-round Education Service Center with a board room as a public access interface. There will also be a fully functioning kitchen within the facility.

The new building will consist of two floors with a partial second floor as well as accommodating a future expansion of a fourth wing and either two classrooms or a multipurpose addition off each wing. The proposed facility's life expectancy is 80 years with minimal changes to the initial design/fit-out anticipated.

Overall Efficiency and Sustainability Objectives

Site EUI Targets are used as energy performance target metrics with variation for building type and square footage. Zionsville Community Schools has a building target EUI of 20-21 (kBtu/sq. ft/yr.) and would like to achieve this goal through the use of a geothermal well-field as well as the usage of photovoltaic panels to equalize or exceed the operational energy required of the building.

Environmental Goals

The landscape shall be designed in such a way that minimizes the amount of grounds upkeep for the school as well as minimizing the amount of stormwater. A connection to nature through the use of sidewalks and trail systems for both students and the surrounding neighborhood should be prioritized during design of these areas.

Space Plan and Functional Uses

This section provides an overview of the intended occupancy of this building with reference to space planning and space requirements based on occupancy type, function, and quantity.

The anticipated total daily occupancy of the ELC/ESC is 550 people including both students and staff. The estimated break down is 450 kids, 50 teachers, and 50 people utilizing the ESC. In addition to the daily occupancy of the ELC/ESC, the building may occasionally be used to host a three day event in the summer for around 100 people.

IV. HVAC Systems

Scope

The principles in this section cover the type of building design selection in regards to the type of HVAC system and how the equipment should perform given the design criteria.

Systems Sizing Design Parameters

Winter:

1. Outdoor Temperature 0.0°F. db
2. Indoor Temperature 68.0° F. db

Summer:

1. Outdoor Temperature 88.9° F. db / 74.0° F. wb
2. Indoor Temperature 74.0°F. db / 50% RH

Night Setback:

1. Heating 60.0° F. db
2. Cooling 80.0° F. db or below 65% RH

Energy Modeling: OpenStudio / EnergyPlus

Space Occupied/Unoccupied Temperature Design Settings

Space Type	Occupied Temperature (°F)		Unoccupied Temperature (°F)	
	Cooling	Heating	Cooling	Heating
Auditorium (Board Room)	74	68	80	60
Break Room	74	68	80	60
Classroom	74	68	80	60
Conference Room	74	68	80	60
Corridor	74	68	80	60
Custodial	74	68	80	60
Data Center	68	68	68	68
Elevator	--	--	--	--
Office	74	68	80	60
Hallway	74	68	80	60
IDF				
Kitchen	74	68	80	60
Lobby	74	68	80	60
Meeting Room	74	68	80	60
MDF	74	68	74	74

Outdoor Spaces (Patios, Rooftops)	--	68	--	--
Reception	74	68	80	60
Restroom	74	68	80	60
Stairwell	74	68	80	60
Storage Room	74	68	80	60
Training Room	74	68	80	60
Vestibule	74	68	80	60
Workshop	74	68	80	60
Workspace	74	68	80	60

Outdoor Design Conditions

Heating (Peak Design Conditions)	0 °F dry bulb (DB)	--
Cooling (Peak Design Conditions)	91.1 °F dry bulb (DB)	74.8 °F wet bulb (MCWB)

Humidity Levels

The desired indoor relative humidity level for the building during summer months is 40-60% and the desired indoor humidity level during winter months is around 20% without any added humidifiers. Humidity control is important to Zionsville Community Schools for the overall comfort and health of the building occupants.

Zionsville Community Schools have utilized reheat coils for humidity controls previously and would prefer to have reheat available for humidity control in the new ELC/ESC as opposed to adding humidifiers.

Occupancy Times

The list describes the various tenant types with their time of day and days of week occupancy schedule:

1. Board Room: 3 days a week 8:00am – 4:00pm, 2-4 evenings a month 6:00pm – 10:00pm.
2. Office Areas: 7:00am – 5:00pm year round.
3. Toddler/Infant/Classrooms: 1 wing 6:00am – 6:00pm, the other wings are 7:45am – 2:45pm year round. Half the daycare will be occupied in summer.
4. Kitchen: Operation schedule will coincide with Toddler/Infants/Classrooms
5. Assume two out of the three wings will operate in the summer with summer hours of 7:00am – 5:00pm
6. First day of school: August 13th
7. Last day of school: June 6th

Outside of these typical operating times, the main data center room and IDF room will be conditioned at their respective setpoints year round. Besides these two areas, the rest of the building will have nighttime setback routines with no nighttime operation expected or assumed.

Climatic, Temperature, and Sizing Requirements

The climatic design criteria shall follow the climatic conditions in accordance with ASHRAE 0.4%. There is a reasonable diversity assumed for the experimental classroom, conference/gathering spaces, multipurpose wing space – that is, the assumption and likelihood that not all spaces will experience the worst case load conditions at the same time.

Zionsville Community Schools desires redundancy within the HVAC services in specific regards to utilizing two pumps with one as backup as well as possibly having shelf stock of a couple spare heat pumps on hand.

Air Quality and Ventilation

The requirements for indoor air quality shall be in accordance with the following:

1. ASHRAE 62.1 standard
2. MERV 8 filtration standard
3. MERV 8/13 AHU

In addition to the industry standards listed above, Zionsville Community Schools would like to implement demand control ventilation for dedicated outside air systems and for heat pumps to enter standby mode based on occupancy sensors with a timer of 30 minutes.

The guidelines referenced within *Advanced Energy Design Guide for K-12 School Buildings – Achieving Zero Energy* shall be applied as much as reasonable for this project.

General HVAC Systems Data

The desired HVAC equipment distribution includes Energy Recovery Units and Dedicated Outside Air Units for each wing as well as Ground Source Heat Pumps for space conditioning. Unit Heaters and various smaller pieces of equipment will be used as necessary.

Design Calculation and Tools

Utilizing hourly energy simulation to predict energy consumption of building is desired for informing the design in regards to energy efficiency, ventilation, and comfort. Hourly energy simulation shall be used in determining space heating and cooling loads.

Energy Efficiency and Demand Reduction

While there are no specific power demand reduction features requested from Zionsville Community Schools, the school would like to look into the process of having some equipment coast during peak hours.

Maintainability

Ease of HVAC equipment maintainability should be prioritized during the design process with an above standard ease of access to all mechanical equipment for maintenance. IOM and training shall be conducted at a high level in order to facilitate a seamless building turnover.

All mechanical equipment is located indoors which will in turn increase the lifespan lending to less of a need for design to accommodate future replacement of equipment.

Operations and Maintenance Documentation

The school staff are to be provided with an electronic copy of all the Operations and Maintenance manuals.

Single-line system flow diagrams beyond the control diagrams are to be provided for O&M staff of the primary systems. Items to be listed include --chilled water, process water, heating hot water, air handlers, cross section air riser diagrams of floors' supply, return and exhaust flows, etc.

A moderately comprehensive Systems Manual is desired. The Systems Manual describes the operational (in contrast to maintenance) procedures for the systems and equipment and building as a whole—system flow diagrams, set points, strategies for seasonal control optimization, shutdown procedures, emergency procedures, energy optimization and tracking recommendations, resetting and calibration methods and frequencies, etc.

Training

In-depth training shall be provided for the in-house maintenance staff on all new equipment and overall system operation. The maintenance staff will be responsible for operating the building HVAC and electrical systems as well as maintaining the majority of the equipment. Filter changes will be provided through a 3rd party vendor. Training shall fully encompass preventative and trouble-shooting maintenance on all equipment. The engineer and architects shall provide some orientation / training on the primary mechanical and electrical systems.

Zionsville Community Schools have expressed an interest in recording all trainings with the possibility of involving students in the media recordings.

Building Automation System (BAS) and Controls (Section needs to be reviewed with owner)

The following list provides an overview of owner expectations for the BAS:

1. The temperature control system proposed will be a direct digital control (DDC) building automation system (BAS).
2. The BAS system shall be WEB based, allowing the Owner to monitor and revise the system from a remote location.
3. The control system will need to tie into another existing building automation control system from another building.
4. Air-handling units and variable air volume terminals will be controlled electronically including electronic room sensors and unit/terminal-mounted unitary controllers.
5. Damper and control valve operators for main heating water control will be electronically operated.
6. The system shall monitor carbon dioxide levels and humidity in each heating, ventilating, and air conditioning (HVAC) zone.
7. The system shall monitor alarms and be capable of trending different systems in the building.
8. The system shall be provided with a energy dash board and be capable of advanced metering.
9. Day/night, occupied/unoccupied zone, event mode control will occur as part of the DDC system.
10. Air temperature, air speed, radiant temperature, and humidity will be designed to ASHRAE Standard 55-2004.

Zionsville Community Schools have expressed that Trane BOD is mandatory while the following system types and brands are not desired or are not acceptable:

1. Johnson Controls
2. York
3. Honeywell systems (TC)

Control schematic diagrams of all controlled equipment are required to be included in the design documents. The sequence of operations shall be in the specifications. A specific controls points list will be included in the design documents that lists each point, whether it's a binary or analog input or output, and references the appropriated equipment. The controls schematic shall also reference the points list.

The control sequences of operation will be above standard to very detailed in the specifications. Detailed sequences are finely numbered and include: overview narrative, interactions, interlocks, delineation of control with packaged controllers, startup, warm up, cool down, occupied, unoccupied, optimal start/stop, capacity control, staging, set points, setbacks,

setups, resets, demand limiting, loss of network, loss of power, alarms, delays, etc. and result in fewer questions of, and require only limited adjustment by the controls contractor.

For the operator's interface screens, all the major pieces of equipment (HP, DOAS, EF, Pumps) shall have summary tabular screens of conditions (e.g., air terminal unit zone: CFM design and actual, space temperature set and actual, discharge temperature.). Lighting and site lighting shall be integrated within the interface.

Significant interoperability communication between the central control system and the mechanical equipment is desired. The geothermal pumps will require automatic changeover to the backup / lag piece without operator action should one piece of equipment fail.

The refresh rate on the operator's work station should be above average. Some specific BAS set points should be able to be adjusted from the OWS graphics screen. For non-measurement and verification purposes, like energy optimization and troubleshooting, some system monitoring points are desired above those required to execute the sequences of control. There will be ongoing measurement and verification: energy tracking, some ongoing commissioning program after occupancy, additional power and HVAC monitoring points as required for building optimization. The sequences of operation and/or the O&M manual data shall be linked to an icon in the graphic screen of each piece of equipment. There shall be a 10% expansion capacity for adding control point inputs and outputs in each field control panel and primary controller in addition to the planned fourth wing and multipurpose addition in the future.

The Main Server Room will require essentially uninterrupted delivery of the HVAC and be operated at a setpoint continuously with no setback via split system. The main building pumps will require uninterrupted service as well. There are critical areas that need their controllers to have redundancy in their power supplies. Upon a control system network failure, all equipment not being controlled by local controllers shall control to the last known value.

The TCC and owner IT representatives should discuss bandwidth of BAS Network and strategize on potential traffic issues. Design level discussions between owner group and design team shall take place to determine desired points to be monitored, trended and/or alarmed in addition to the following list:

1. Control Algorithms
2. Sensors and Actuators
    a. Belimo actuators preferred, no substitutes.
3. Set Points
4. Occupancy Schedules
5. Energy Management
6. Alarms and Notifications
7. Maintenance Schedules
8. Data Collection and Reporting
9. System Upgrades
10. Training
11. Remote Access
12. Fault Detection and Diagnostics

Occupant HVAC Control

Occupants shall be capable of adjusting the desired space temperature (+/- 2°F from setpoint) per heat pump thermostat without the ability to adjust outside the deadband range of 68°F to 74°F. The occupant thermostat shall have a visual display. Occupants will only have space temperature control and no control over area ventilation.

Entry Design

Exceptional care shall be taken through design and construction to minimize drafts in and out of the main entrances. Entry vestibules shall be utilized.

Building Pressurization

Active building pressurization control schemes through pressure control / CFM offset shall be utilized in the design of the ERU/DOAS units. The building will be positively pressurized to decrease the infiltration rate through the building envelope. The DOAS units should be capable of shutting down through toggle control at the BAS.

V. Electrical Systems

General

The electrical system design shall address the following components:

1. Lighting
2. Power distribution
3. Fire Alarm
4. Solar PV Array

Coordination studies shall be conducted for all specified power systems in accordance with requirements (short circuit study, protective relays/breakers, voltage drop / transient study for large motors, etc.).

The switchboard shall be sized 10% over requirements for connected and operating electrical load estimate, not including the future fourth wing and multipurpose addition.

The following list is comprised of specific equipment brand or components that shall not be included in this project:

1. Honeywell for fire alarm systems
2. Energy Harness

The following list is comprised of specific equipment brand or components that are preferred to be included in this project:

1. Notifier for fire alarm systems, flat specification
2. Like Square D, Siemens and Cutler Hammer (bottom of list)

Power Capacity and Redundancy

The following table describes how much electrical capacity (W/sf) is desired for each type of space.

Area	Electrical Capacity (W/ft^2)
Classroom Lights Definition	0.55
Conference Lights Definition	0.74
Corridor Lights Definition	0.41
Kitchen Lights Definition	1.09
Lobby Lights Definition	0.84
Mechanical Lights Definition	0.43
Multipurpose Lights Definition	0.71

Office Lights Definition	0.74
Restroom Lights Definition	0.63
Storage Lights Definition	0.74

Power Quality

Above standard level of power quality is desired. The main switchboard shall be monitored to safeguard and maintain the integrity (such as voltage or phase imbalance) of the incoming power. The Utility company may require a capacitor bank and harmonic filters. Phase loss protection shall be utilized at all big motors. TCC shall provide remote monitoring of electrical equipment and the main electrical.

Lighting and Visual Quality

An above standard level and description of the visual quality is desired throughout the facility. There shall be a standard level of aesthetic and artistic license for the lighting design for the building areas. Some very limited color tuning throughout the facility will possibly be utilized. The current list of rooms for which color tune lights are desired include:

1. Developmental Rooms (one per wing)
2. Breakroom
3. Safe Room

An exceptional level of energy efficiency is desired in the lighting equipment.

The New ESC/ELC building shall utilize various lighting controls based on the intended use of areas, both indoor and outdoor. There will be dimmer control switches, occupancy sensors, daylighting control dimmers, BAS controls for security and site lighting and in some spaces just a single toggle type light switch.

Emergency Generator and UPS

The following equipment shall be connected to generator power in case of power failure:

1. Pumps
2. WIC/WIF
3. Emergency and exit lighting
4. Fire alarm panel
5. Kitchen coolers
6. Technology equipment

The generator shall be appropriately sized with an extra capacity of 20-30% for potential special needs by tenants. The fuel tank of the generator shall be sized so that the generator will be able to operate under full load for 8 hours. Zionsville Community Schools requests the exploring the option of a propane generator to meet their needs with a diesel generator being the standard option.

Power Monitoring

Submetering of utility power is desired, specifically electricity for resource efficiency tracking, measurement and verification (M&V), occupant billing, demand reduction, etc. Sub panels shall be metered for the classroom wings, HVAC, ESC, Kitchen, and Solar Panels. The metered information shall be presented and reported for the occupants and staff through the BAS with a monitor station near the ESC lobby, and ELC lobby.

VI. Plumbing Systems

Fixture Controls

Auto-flushing and on/off controls are desired on urinals, lavatories, and toilets.
Waterless urinals are not preferred, but a dual-flush option is desired.

Energy Efficiency

Zionsville prefers tankless water heater and water softening.

VII. Fire Protection and Alarm

Preferences

Notifier is preferred brand and/or model of fire alarm system.
Zionsville prefers to not have system provide voice alarms is avoidable.
The fire alarm signal is to be sent to off site to local dispatch, Fire Department, & Stanley Security.
Preference is for FA system to not have addressable and monitored fire smoke dampers (that can be commanded open or closed from the fire alarm panel). Also preferred for fire smoke dampers to not have end switches.

VIII. Data and Communications Systems

Preferences

Data requirements for the building are for network connections to be wired and wireless and be able to accommodate future expansion for a future wing. Future wing will be accommodated by adding a data backbone to a future data closet.

Preference for wireless coverage is to have overall building coverage with specific attention to maintaining coverage in classroom areas. Wireless access points will be provided throughout the building including classrooms and office areas. Owner will be providing equipment.

Other communication systems desired for the building are as follows:

1. Phones (voice) and Carehawk 2 way intercom system will be in each room. Phones will be provided by owner.
2. The security system will be connected to phone lines along with the network system for monitoring.

IX. Security and Access

Preferences

Security system concerns for this facility include:

1. System Segregation of ESC/ELC areas
2. Site Circulation.
3. There is potential for a desire to have bullet-proof glass for board room.

List the specific brand and/or model of security system: Owner provided but they use Verkade access control.

The overall access control system preferences for this facility are card readers and intercom/camera access provided at the main visitor and employee entrances.

Areas of the facility that require controlled access are:

1. All main entries.
2. All drop off entries.
3. Add card access to playground doors.
4. Exterior access points.
5. First to second floor.

There is to be no interlocks between the security system and the building automation system and HVAC. Owner does not want to give the ESC any overrides for BAS (currently).

I. Commissioning

Scope

MEP systems shall be commissioned with a focus on the facility achieving Net-Zero status. The project Commissioning Authority (CxA) shall utilize the following commissioning process (CxP) activities for mechanical, electrical, plumbing systems and assemblies in accordance with ASHRAE Guideline 0 and ASHRAE Guideline 1.1 for HVAC&R systems, as they relate to energy, water, indoor environmental quality, and durability. We propose to perform the following tasks:

1. Generate a commissioning schedule and a commissioning plan.
2. Review shop drawings and RFI's as necessary to confirm compliance with the OPR. Coordinate reviews with the design team.
3. Confirm incorporation of Cx requirements into the construction documents.
4. Develop startup plans and pre-functional checklists with the Construction Manager.
5. Conduct onsite observations during construction and issue Site Observation Reports.
6. Attend select equipment startup and pre-functional testing activities.
7. Conduct functional testing of the base building systems and equipment.
    a. Note, the controls contractor shall manipulate the building controls system under the direction of the Owner & CxA to collect data and to demonstrate functionality of the systems per the designed functional test sequences.
8. Host regular Commissioning Meetings to coincide with Owner Progress Meetings
9. Track and follow up on open commissioning issues with the Construction Manager. Development and maintenance of a Commissioning Issues and Benefits Log (Deficiency List).
10. Compile a final commissioning report documenting test results.
11. Review O&M documentation, project reports and closeout documents for completeness.
12. Review Owner training plans as provided by the Construction Manager. Coordinate and pre-approve Owner training. Attend training sessions as necessary.
13. During the warranty phase, implement seasonal testing with the Construction Manager and follow up on open commissioning items. Review building operation 9-months after Substantial Completion.

Systems To Be Commissioned:

The systems to be commissioned include, but are not limited to the following:

HVAC Systems (Systems subject to change)

1. Geothermal Water Sourced Heat Pump Loop system and associated components
2. Water Sourced Heat Pumps
3. Dedicated Outside Air System and associated components
4. Hot water heating system and associated components
5. Air Terminal Units
6. Exhaust Fans
7. Unit Heaters
8. Test & Balance (TAB) Report Review

DDC Controls (Temperature Controls)

1. DDC System Point Integration & Trending
2. DDC System Graphical User Interface Compliance

Plumbing Systems

1. Domestic Hot Water Systems and associated components

Electrical Systems

1. Automatic Lighting Controls
2. Emergency Generator and associated automatic transfer switches
3. Power Metering Systems
4. Photovoltaic System.

Envelope Testing Services

For this newly constructed facility pursuing Net Zero status, the commissioning agent will perform Whole Building Envelope Airtightness and Thermography Testing services. This is an architectural & HVAC energy performance optimization service. Air leakage found during this testing activity has a direct impact on energy efficiency, temperature and humidity control, and occupant comfort. Sometimes these leaks result in moisture infiltration, and have the potential to allow mold was to grow, which would have a big impact on occupant care and health.

This Building Pressure Testing will adhere to ASTM E779/E1827/E3158 Testing Methods Guidelines and is to be scheduled and coordinated with owner and sub-contractors. The testing agency will also utilize a thermal imaging camera to document thermal anomalies that are distinguishable during testing.

Testing reports and follow-up deficiency resolution will be anticipated to be included within the architectural punch list process.

Monitoring Based Cx (MBCx) & MEP Systems Optimization:

After the controls contractor has completed the installation and programming of the building automation system (BAS), the CxA will collect trending data from the BAS and monitor the performance of mechanical systems, equipment, and metering data. Approval and assistance are requested from the network administrator for gaining access to the BAS network and pulling point & trend data.

Occupancy Phase testing and trend data review will be executed through the semi-annual analysis of an MBCx plan. This approach allows for increased efficiency and eliminates disruptions to the daily operations of the facility by remotely analyzing the seasonal performance of critical systems over extended periods of time without having to manually simulate varying operational conditions on-site.

1. This scope includes a MBCx kickoff meeting and semi-annual meetings to review findings and track the implementation of recommendations and resolution of identified issues.
2. CMTA will provide the MBCx scope of work through the 12-month warranty period following substantial completion.

Further, building systems shall be optimized through the use of trending/testing to ensure that actual system performance meets or exceeds energy model predictions.

Zionsville CS New ELC / ESC
Zionsville, Indiana
Commissioning Plan – Design Phase



Submitted By
CMTA Commissioning
10411 Meeting Street
Prospect, KY 40059

Dates
Design Version: Construction Documents - 06/23/2025
Construction Version: 100% CD Set
Final Version: Living Document

CMTA
A LEGENCE Company

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I. Introduction

The Commissioning plan is a living document describing the key steps taken throughout the design, construction, and operation of a newly added facility to attain the desired results. This commissioning plan has been developed in draft form for this specific project during the design phase. This plan provides site-specific commissioning specifications by the construction team and provides direction for the commissioning tasks during construction. This plan focuses on providing support for the specifications and provides forms for the application of the commissioning process. The responsibilities required of the commissioning team are to provide the Owner verification that the various system installations and operations are per the design intent and ensure a smooth turn-over of systems.

II. Abbreviations:

The following are common abbreviations used in this document:

A/E-	Architect and design engineers		CM-	Construction Manager
CA or CxA -	Commissioning authority		MC-	Mechanical contractor
BECxA-	Building Envelope Commissioning Agent		TAB-	Test and balance contractor
CM-	Construction Manager		TCC-	Temperature Controls Contractor
Cx-	Commissioning		EC-	Electrical contractor
Cx Plan-	Commissioning Plan document		OPR-	Owner Project Requirements
PFC-	Pre functional Checklist		PVT-	Performance Verification Test
FPT-	Functional performance test		AoR-	Architect of Record
CC-	Controls Contractor		DDC-	Direct Digital Control System
Cx Team-	Commissioning Team			

III. Project Description

Project Name	Zionsville CS New ELC / ESC
Project Address	Zionsville, Indiana
Bld. Function	Early Learning Center and District Administrative Offices
Bld. Details	Approximately 119,000 sq. ft. including classrooms, multi-purpose rooms, playgrounds, kitchen, administrative offices and a board room.

Zionsville County Schools (ZCS) has created Environmental Impact Indicators to reduce environmental effects of site development and management while meeting the division's sustainability goal of resource stewardship. This supports comprehensive green space planning and creates a means by which reducing environmental impacts are continually included in decision making.

IV. Purpose of Commissioning:

The purpose of the Design Phase commissioning plan is to provide quality direction for the commissioning process during Design and Construction, particularly providing resolution for issues and providing details not anticipated during design, such as scheduling, participation of various parties involved in this project, actual lines of reporting and approvals, coordination, etcetera.

V. Commissioning Objectives

Commissioning is a systematic process of ensuring that all building systems perform interactively according to the Design Intent and the Owner's operational needs. The commissioning process is intended to assist with the coordination of traditionally separate functions of system documentation, equipment startup, control system and calibration, performance testing, and training. Commissioning of this project is intended to achieve the following specific objectives according to the Contract Documents and Owner requirements:

1. Verify that applicable equipment and systems are installed in accordance with manufacturer's recommendations and to industry accepted standards.
2. Verify that the systems and equipment receive adequate operational checkout by the installing contractors.
3. Verify and document proper performance of equipment and systems.
4. Ensure that Operation and Maintenance (O&M) documentation is properly compiled and is readable, understandable, and complete.
5. Ensure that Owner's operating personnel are adequately trained.
6. Assurance of Net Zero Goals

VI. Commissioned Systems

The systems listed below shall be commissioned for this project. Refer to subsequent sections of this commissioning plan for additional details. All general references in this document refer only to equipment that is to be commissioned.

Below is a chart of the systems to be commissioned with associated responsibilities listed:

System		CM/QC	EC	MC	CC	TAB
Mechanical & Plumbing						
	Geothermal Water Sourced Heat Pump Loop system and associated components	P	P	P, S, C, F	P, C, F	T
	Water Sourced Heat Pumps	P	P	P, S, C, F	P, C, F	T
	Dedicated Outside Air System and associated components	P	P	P, S, C, F	P, C, F	T
	Exhaust Fans	P	P	P, S, C, F	P, C, F	T
	Unit Heaters	P	P	P, S, C, F	P, C, F	T
	Kitchen Hoods	P	P	P, S, C, F	P, C, F	T
	Building automation and controls	P	P	P, S, C, F	P, C, F	T
	TAB Witness & Review	P	N/A	P, S, C, F	P	T
Plumbing						

	Domestic Hot Water System	P	P	P, S, C, F	P, C, F	T
	Domestic Hot Water Heat Pumps	P	P	P, S, C, F	P, C, F	T
	Point-Of-Use Electric Instantaneous Water Heaters	P	P	P, S, C, F	P, C, F	T
	Recirculation Pumps	P	P	P, S, C, F	P, C, F	T
	Elevator Sump Pumps	P	P	P, S, C, F	P, C, F	T
Electrical						
	Interior/Exterior Lighting Controls	P	P, S, C, F	N/A	N/A	N/A
	Emergency Generator and associated automatic transfer switches	P	P, S, C, F	N/A	N/A	N/A
	Power Metering Systems	P	P, S, C, F	N/A	N/A	N/A
	Photovoltaic System	P	P, S, C, F	N/A	N/A	N/A
Building Envelope						
	Whole-Building Pressure Testing and Thermography Services	BPT	BPT	BPT	BPT	N/A

Abbreviation Key:

P = Execute Cx PFPTs, trade specific. Submit completed forms to the CA.

S = Execute startups. Submit reports to the CA.

C = Execute controls verifications. Submit reports to the CA. Execute calibrations back checks, as directed and witnessed by the CA.

T = Execute testing, adjusting, & balancing. Submit report to the CA. Execute TAB back checks, as directed and witnessed by the CA.

F = Execute Cx FPTs, trade specific, as directed and witnessed by the CA.

ET = Execute Envelope specific testing criteria. Submit reports to the AoR & BECxA for review and approval. Execute back checks, as directed and witnessed by the AoR & BECxA.

BPT = CMTA Cx team to perform Testing onsite with trade specific contractor assistance.

VII. Commissioning Team

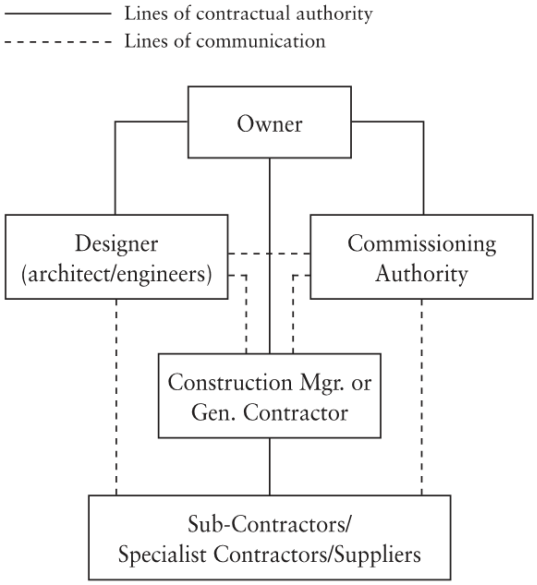
The following list includes the major team members for the Design Phase Commissioning Team:

Name	Company	Position	Phone	Email
Owner				
Matthew Doublestein	Zionsville County Schools	Owner Representative	---	mdoublestein@zcs.k12.in.us
---	---	---	---	---
Architect (A/E)				
Jennette Moline	Fanning Howey	Architect, PM	---	jmoline@fhai.com
Jake Sorenson	Fanning Howey	---	---	jsorenson@fhai.com
Mike Sexton	Fanning Howey	---	---	msexton@fhai.com

Daniel Arnold	Fanning Howey	---	---	darnold@fhai.com
Philip Medley	Fanning Howey	---	---	pmedley@fhai.com
Ian Dickson	Fanning Howey	---	---	idickson@fhai.com
Josh Elkins	Fanning Howey	---	---	jelkins@fhai.com
Carl Thomas	Fanning Howey	---	---	cthomas@fhai.com
Dennis Bane	Fanning Howey	---	---	dbane@fhai.com
Construction Manager (CM) and Quality Control (QC)				
Victor Landfair	Skillman	CM	---	vdlandfair@skillman.com
Jacob Bower	Skillman	CM	---	jbower@skillman.com
Net Zero Engineers				
Wyatt Ross	CMTA	Model Review	---	wross@cmta.com
Zach Schneider	CMTA	Net Zero Engineer	---	zschneider@cmta.com
Commissioning Authority (CxA)				
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Lines of Communication

Commissioning is a team effort. The following organizations each contribute their expertise to the functional success of the project. Below is a chart of the expected lines of communication between team members.



VIII. Commissioning Roles and Responsibilities

Commissioning Representatives:

A Commissioning Representative shall be provided by each discipline specific contractor associated with the systems required to be commissioned. Each Commissioning Representatives shall be responsible for coordination of their respective discipline specific contractor's execution of the commissioning activities required by the respective specification section. The Commissioning Representatives' duties shall include but are not limited to the following:

1. Communication with the Quality Control Representative.
2. Attendance at the Commissioning Coordination Meeting.
3. Attendance at the Commissioning Progress Meetings.
4. Participation in planning and scheduling of all commissioning activities.
5. Review of functional performance test procedures.
6. Completion of Pre-Functional Checklists.
7. Functional performance test participation.
8. Implementing corrective actions associated with deficiencies found through the commissioning process.
9. Request clarification of issues as needed.

Commissioning Authority:

The Commissioning Authority will be provided by the owner. The Commissioning Authority will lead the Commissioning process and review submittals including test reports, perform inspections on systems and equipment, and lead functional performance tests in accordance with the Commissioning Plan and construction Documents.

IX. Commissioning Process

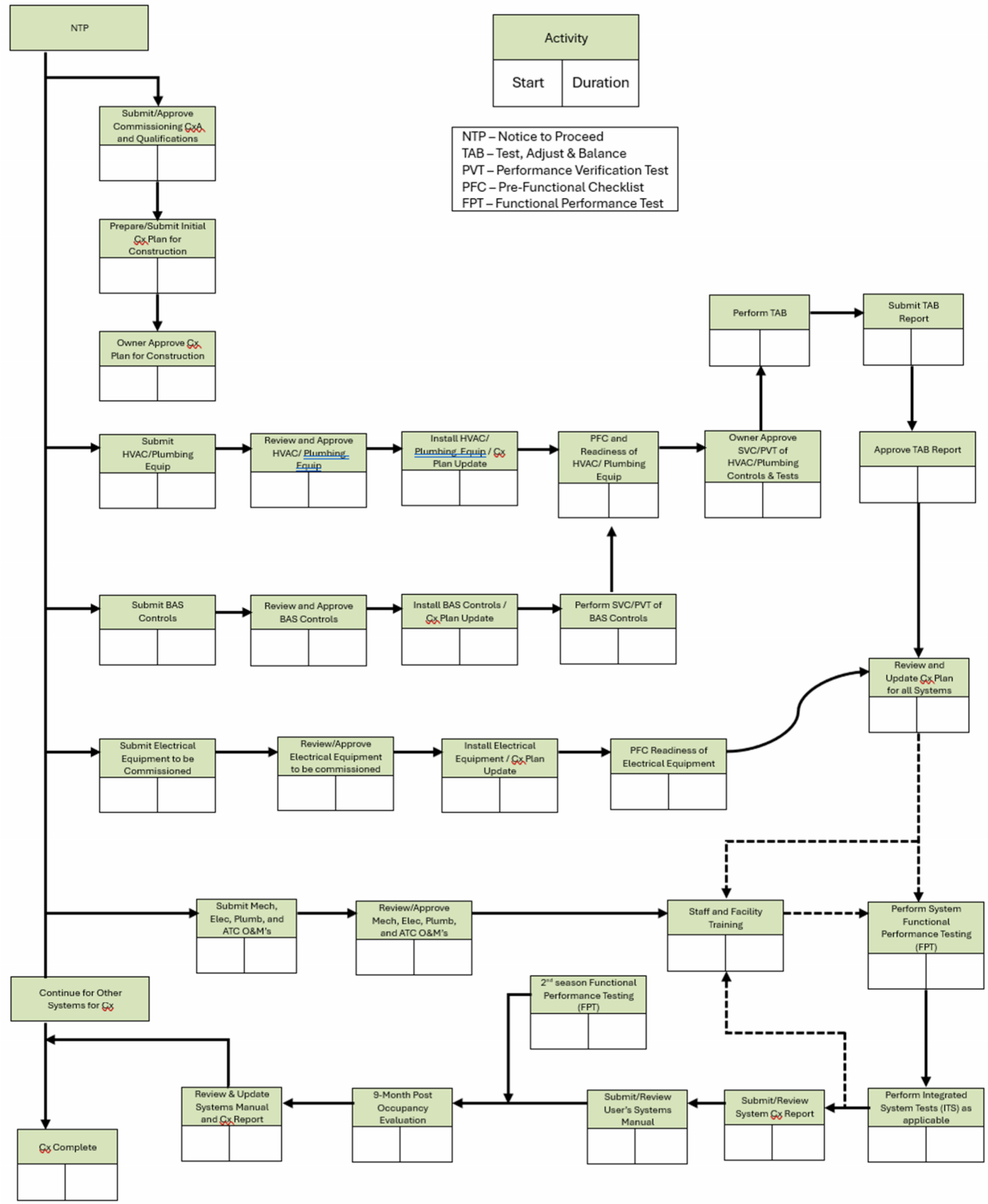
This section details the commissioning process, tasks, and activities.

Design Phase

1. Design Phase Commissioning Plan
    a. The Commissioning Authority shall update the Commissioning Plan. The plan shall describe the entire commissioning process as described in this scope of work. The plan shall cover design, construction, and post-construction phases of work. The Commissioning Plan is a living document; as design progress, adjustments may be made to accommodate changes or further refine schedules and procedures.
    b. The Commissioning Plan shall outline, for the design and construction phases of the project, the overall commissioning process, schedules, team members and responsibilities, documentation requirements, lines of communication, and review procedures. The design phase component of the Commissioning Plan shall be made available to the Cx team within 2 weeks following the Design Phase Coordination Meeting. Submit plan to Cx team electronically.
    c. The construction phase component of the Commissioning Plan shall be submitted to the Cx team within 2 weeks following receipt of the 100% design submittal. The construction phase component of the Commissioning Plan shall include Issues Log Template, Pre-Functiona1 Checklists, and Functional Performance Test procedures and Checklists. The Commissioning Plan shall also include anticipated trend log points, sample frequency, and duration for initial set up and review prior to Functional Performance Tests. Schedules shall include estimated time required to complete tasks. Submit plan to Cx team electronically. Each Commissioning Plan submittal will be reviewed by the Cx team. Comments shall be resolved through coordination with Cx team.
2. Design Review
    a. The Commissioning Authority shall review the 90%, and Corrected Final design plans and specifications or the equivalent milestones submitted by the Contractor, the Owner's Project Requirements, and the Basis of Design. The Commissioning Authority shall verify that the Owner's Project Requirements and Basis of Design documents are complete and clear, the design plans and specifications reflect the Owner's Project Requirements and the Basis of Design, and that the systems can be functionally tested. The Design Review is not intended to capture design deficiencies other than in relation to the items noted; however, if design deficiencies are found in the Design Review, they may be commented upon.
    b. The Commissioning Authority shall participate in design review meetings via teleconference to discuss the commissioning comments with the construction contractor team and owner.

Construction Phase

1. Cx Project Flow
    a. The following commissioning flowchart summarizes the commissioning activities to be performed on the project:


NTP
Activity
Start
Duration
NTP – Notice to Proceed
TAB – Test, Adjust & Balance
PVT – Performance Verification Test
PFC – Pre-Functional Checklist
FPT – Functional Performance Test
Submit/Approve Commissioning CxA and Qualifications
Prepare/Submit Initial Cx Plan for Construction
Owner Approve Cx Plan for Construction
Perform TAB
Submit TAB Report
Submit HVAC/Plumbing Equip
Review and Approve HVAC/ Plumbing Equip
Install HVAC/ Plumbing Equip / Cx Plan Update
PFC and Readiness of HVAC/ Plumbing Equip
Owner Approve SVC/PVT of HVAC/Plumbing Controls & Tests
Approve TAB Report
Submit BAS Controls
Review and Approve BAS Controls
Install BAS Controls / Cx Plan Update
Perform SVC/PVT of BAS Controls
Review and Update Cx Plan for all Systems
Submit Electrical Equipment to be Commissioned
Review/Approve Electrical Equipment to be commissioned
Install Electrical Equipment / Cx Plan Update
PFC Readiness of Electrical Equipment
Submit Mech, Elec, Plumb, and ATC O&M's
Review/Approve Mech, Elec, Plumb, and ATC O&M's
Staff and Facility Training
Perform System Functional Performance Testing (FPT)
Continue for Other Systems for Cx
2nd season Functional Performance Testing (FPT)
Review & Update Systems Manual and Cx Report
9-Month Post Occupancy Evaluation
Submit/Review User's Systems Manual
Submit/Review System Cx Report
Perform Integrated System Tests (ITS) as applicable
Cx Complete

2. Construction Commissioning Coordination Meeting
    a. After the commissioning planning meeting, a Construction Commissioning Coordination Meeting is held with all commissioning team members. The commissioning plan, process, and schedule are presented and discussed. Questions are answered regarding the commissioning plan and specifications. The communications process is discussed and finalized. Also covered are the general list of each party's responsibilities, and who is responsible to develop the startup plan for each piece of equipment and the proposed commissioning schedule. The outcome of the meeting is increased understanding by all parties of the commissioning process and their respective responsibilities. The meeting shall also provide the construction contractor with a mark-up of the submittal register showing which submittals the Commissioning Authority will review.
    b. The Commissioning Authority, the Contractor, the Contractor's Quality Control Representative, and the Owner shall meet no later than 30 days following construction notice to proceed to discuss the commissioning process to include the contract requirements, lines of communication, roles and responsibilities, schedules, documentation requirements, inspection and test procedures, and logistics.
3. Progress Meetings
    a. The Commissioning Authority shall organize and lead progress meetings with the Cx team to discuss progress of system installation, status and scheduling of commissioning activities, and issues and deficiencies. The Commissioning Authority shall identify the appropriate discipline specific construction contractor personnel to attend the meetings in advance. The progress meetings shall be held monthly during construction until mechanical and lighting system installation begins. After commissioned system installation begins, the meetings shall be held bi-weekly.
    b. The Cx team shall participate in bi-weekly conference calls throughout construction of the project to discuss the progress of the system installation and the status and scheduling of commissioning activities, issues, and deficiencies. The Commissioning Authority will identify the discipline specific contractor commissioning representatives that shall participate in each call.
    c. The Mechanical, Electrical, and Architectural designers of record shall participate in the conference calls at the request of the Commissioning Authority. The Commissioning Authority will only request designer of record participation as needed in order to address design issues or issues regarding technical adequacy.
4. Field Observation
    a. Field observations will be made by the Commissioning Authority and are intended to provide the Commissioning Authority with an understanding of the systems and assemblies, configuration and layout and allow the Commissioning Authority to verify that pre-functional checklists are being used and to identify issues that may negatively impact any later activities of startup, functional testing, operations or maintenance. The Commissioning Authority shall inspect 100% of equipment associated with commissioned systems. The Commissioning Authority shall report all inspection failures and issues in the Issues Log and report them to the Cx team. The Commissioning Authority shall re-inspect all equipment that failed inspection.
5. Miscellaneous Communication Protocols
    a. The following are the protocols on this project:
        i. Commissioning Authority may call the CM and/or appropriate discipline specific contractor directly, with minor questions:
            1. For questions or issues where the Commissioning Authority disagrees with the designer or contractor, the Commissioning Authority generates a formal RFI.

2. Commissioning Authority questions or issues that may result in change of scope, significant clarification in the sequences of operation or other project documents shall become RFIs.
3. The Commissioning Authority will not direct implementation changes to specified sequences without approval from the A/E.
4. The Commissioning Authority will provide a record of all commissioning related issues and significant communications to the Cx team.

6. Progress Reporting and Logs
    a. The Commissioning Authority regularly communicates with all members of the commissioning team, keeping them apprised of commissioning progress and scheduling issues through memos, progress reports, issues logs, etc.
        i. Progress Reports:
            1. The progress reports contain an update of the milestones progress, a list of new and outstanding issues, a description of commissioning progress corresponding to the plan, etc.
        ii. Issues Logs:
            1. The Commissioning Authority keeps a log of all commissioning-related issues.
7. Initial Submittals and Documentation
    a. Standard Submittals
        i. The Commissioning Authority shall receive all construction submittals and shop drawings related to the systems being commissioned including all related test reports (particularly of interest will be the Testing, Adjusting, and Balancing (TAB) Report, Performance Verification Test (PVT) Procedures and Test report, and Trend Logs).
    b. The Commissioning Authority shall review the submittals, including resubmittals, and evaluate conformance to the Owner's Project Requirements and Basis of Design, ensure fulfillment of operation and maintenance requirements, and ensure facilitation of performance testing. The Commissioning Authority shall not be responsible for evaluating the submittals for contract compliance. Deficiencies discovered shall be recorded in the Issues Log and reported to the Cx team within 2 weeks of receipt of each submittal.
    c. The Commissioning Authority will be provided a submittal register; the Commissioning Authority shall mark the submittals on the register that must be provided to the Commissioning Authority. The register will be provided to the CM, and the CM sends submittals directly to the CxA. Submittal comments shall be distributed formally to the Cx team; however, CM should get advance copy of comments.
    d. Once there is an approved submittal, the contractor has two weeks to submit information required for Cx, including:
        i. Required for Functional testing Data (2 weeks after Submittal Approval)
            1. Cut Sheets and performance data (regular submittal data)
            2. Product description literature (general information)
            3. Installation guide
            4. Start-up guide and checkout plan
            5. Any required test plans / reports (factory tests, start-up, etc.)
        ii. Required for Systems Manuals (2 weeks after equipment delivery)
            1. O&M Booklets
            2. Warranty and service contract information

3. Control drawings and points list
4. Control sequences and schedules
5. Certifications (pressure, leaks, gas, government inspections, etc.)

8. Installation, Startup, and Initial Systems Checkout
    a. This phase of the work by the contractor requires utilizing enhanced documentation procedures and forms provided or approved by the Commissioning Authority. A major element in this phase is the completion of pre-functional checklists.
9. Pre-Functional Checklists
    a. The design build/construction contractor team and all of the appropriate discipline specific contractors will complete the Pre-Functional Checklists for all installed equipment in accordance with the Commissioning Specification. The Commissioning Authority shall ensure that all of the Pre-Functional Checklists are completed and initialed by all of the appropriate discipline specific contractors prior to site visit. The Commissioning Authority shall perform a site visit to verify that the installation of the systems to be commissioned is complete and in compliance with the construction contract and accepted design requirements, the Owner's Project Requirements, and the Basis of Design. The Commissioning Authority shall inspect 100% of equipment associated with commissioned systems. The Commissioning Authority shall report all inspection failures and issues in the Issues Log and report them to the Cx team. The Commissioning Authority shall re-inspect all equipment that failed inspection.
10. Submitting Completed Documentation
    a. CM to formally submit to Commissioning Authority (21) days prior to scheduled functional testing date for review. At the Commissioning Authority's request, forms shall be provided to the Commissioning Authority for review or use prior to completion. With all submissions, any outstanding or incomplete line items shall be clearly documented, and a date provided for expected completion. Upon Commissioning Authority's review of completed forms, the Cx team will be notified of any areas or issues deemed incomplete or inadequate. The CM and appropriate discipline specific contractor are responsible for resolving all outstanding issues.
11. Development of Functional Testing and Verification Procedures Overview
    a. Functional testing is the dynamic testing of systems (rather than just components) under full operation. Systems are tested under various modes, such as during low cooling or heating loads, high loads, component failures, unoccupied, varying outside air temperatures, fire alarm, power failure, etc. The systems are run through all the control system's sequences of operation and components are verified to be responding as the sequences state. Test procedures are initially written by the Commissioning Authority and are then reviewed by the discipline specific contractors and Vendors for enhancements as appropriate. All testing procedures shall be written in accordance with the specifications and the commissioning related formal written work products and submittals. Generally, the Commissioning Authority writes step-by-step functional test procedures and documentation formats for all commissioned systems and equipment, except for regulated tests including fire suppression, fire alarm, elevator, and NETA electrical tests where detailed testing and documentation requirements already exist. The commissioning team will also seek to utilize contractor's previously prepared checklists for more common items including ductwork installation logs, piping tests and possibly contractors' initial equipment checkout forms. Functional testing will include manual functional testing, automatic temperature control system trending and testing and may include some stand-alone data-logger monitoring.
12. Development Process

a. Before writing test procedures the Commissioning Authority obtains all requested documentation and a current list of change orders affecting equipment or systems, including an updated points list, control sequences and set points. The Commissioning Authority develops specific test procedures to verify proper operation of each piece of equipment and system, using the testing requirements in the Specifications. The Commissioning Authority obtains clarification, as needed, from contractors and the A/E regarding sequences and operation to develop these tests. Prior to execution, the Commissioning Authority provides a copy of the primary equipment tests to the installing Sub (via the CM) who reviews the tests for feasibility, safety, and warranty and equipment protection. Blank copies of the procedures are input into the O&M manuals for later use by operations staff.
b. Functional testing and verification may be achieved by manual testing (persons manipulate the equipment and observe performance) or by monitoring the performance and analyzing the results using the control system's trend log capabilities or by stand-alone data-loggers. The Commissioning Authority follows the Specifications when given and uses judgment where needed to determine which method is most appropriate.

13. Trend Logs and Monitoring
    a. The Commissioning Authority shall review trend logs provided in advance of the Functional Performance Tests (received at least seven days prior to the FPT) within 3 calendar days following receipt. The trend logs will be provided as defined in the Commissioning Plan and in accordance with the Commissioning Specification. The Commissioning Authority shall evaluate the trend logs to determine if they reflect any system operation deficiency or instability. The Commissioning Authority shall request additional trend logs with necessary points, sample frequency, and duration as needed to further evaluate any potential deficiency identified. Additional trend logs shall be reviewed within 3 calendar days following receipt. Report any deficiencies in the Issues Log and report them to the Cx team immediately. The FPT may be delayed due to significant deficiencies.
14. Testing Plan Overview
    a. Following a majority of system start-ups, a functional testing plan is developed. This overview will provide the contractors with a better idea of where functional testing lies in the schedule, what issues are preventing the start of testing, which contractors are needed for each test and how much time might be expected from them.
15. Execution of Functional Testing Procedures
    a. Overview and Process
        i. The Commissioning Authority schedules functional tests through the CM and affected discipline specific contractors. For any given system, pre-functional checklists are completed, with the necessary signatures, prior to performing functional testing. This is an assurance for the Commissioning Authority that the system is ready for functional testing. The Commissioning Authority will over-see, witness, and documents, the functional testing of all commissioned equipment and systems according to the Specifications and the CX Plan.
        ii. Subcontractors shall execute the functional tests. The control system is tested before it is used to verify performance of other components or systems. The air balancing and water balancing is completed and debugged before functional testing of air-related or water-related equipment or systems. Testing proceeds from components to subsystems to systems and finally to interlocks and connections between systems.
16. Issues, Deficiencies, and Retesting

a. The Commissioning Authority and/or the CM when applicable, documents the results of the test on the forms. Corrections of minor deficiencies identified are made during the tests at the discretion of the Commissioning Authority. The Commissioning Authority records the results of the test on the procedure or test form. Deficiencies and unresolved issues are noted and reported to the Cx team. Items will be added to the unresolved issues log and will be discussed at the next job conference or commissioning meeting. If an issue is more critical and requires more immediate action, then a memo on the specific item will be issued. Should design issues arise then RFI's will be generated and sent to the A/E. As issues are addressed verbal or written responses from the CM or the A/E will be recorded thus recording their disposition and planned actions. As issues are resolved or the required change is completed, the CM notifies the Commissioning Authority so that the issue can be moved from the running issues log to the resolved issues log and testing can resume once issue is back-checked.

17. O&M Manuals, Warranties, Systems Manual, and As-Built's Standard O&M Manuals
    a. The Commissioning Authority reviews the O&M manuals, documentation and redline as-builts for systems that were commissioned to verify compliance with the Specifications. The Commissioning Authority recommends approval and acceptance of these sections of the O&M manuals to the owner. The Commissioning Authority also reviews each equipment warranty and verifies that all requirements to keep the warranty valid are clearly stated.

Training

1. Training and Orientation
    a. The construction team will provide a training plan listing all specified training requirements, contents of training sessions, trainer name and contact information, and schedule and location of training. The Commissioning Authority shall review the training plan to identify any missing training within 2 weeks of receipt and report any deficiencies in the Issues Log and to the Cx team. The Commissioning Authority shall assist construction team in tracking training completion by retaining training attendance rosters provided by the construction team. The Commissioning Authority shall report any training that does not occur in the Issues Log and to the Cx team.
2. Specific Training Agendas.
    a. The Owner and Commissioning Authority review the agenda; make comments; approve the form subject to the comments; and submit back to the Contractor. The Contractor provides the approved agenda to the trainer to use during the training. The trainer provides a copy of the agenda to each trainee.
    b. For each piece of equipment, prior to training, the Contractor provides each trainer, Training and Orientation Record. On this form, the trainer documents each training session (duration and general subjects covered). The trainer signs for the session and obtains the signature of each trainee. The trainer also checks off subjects covered on the Agenda. When the training is complete, the Contractor provides a copy of the Training and Orientation Record, and the trainer's Agenda, to the Owner and Commissioning Authority. The Owner and Commissioning Authority review and make final approval by signing it. The Commissioning Authority may witness any of the training sessions.
3. Training Matrix for Commissioned Systems
    a. The following table summarizes the current training requirements listed in the specification.

Specification Section	*System*	*Duration*
220800-5	Commissioning of Plumbing Systems	TBD
230800-6	Commissioning of HVAC Systems	TBD
260800-6	Commissioning of Electrical Systems	TBD

4. Post-Construction Support
    a. The Contractor shall provide Trend Logs from the HVAC control systems at the request of the Commissioning Authority periodically up to the 9-month warranty inspection. Trend Logs will not be requested more than one time per month.
    b. Additional Trend Logs shall be provided as requested by the CxA to verify correction of any deficiencies discovered during this period. Selected control and monitoring points, sample frequency, and duration of trends shall be at the sole discretion of the Commissioning Authority.

X. Warranty Period

1. During the warranty period, seasonal testing and other deferred testing required is completed according to the Specifications. The Commissioning Authority coordinates this activity. Tests are executed and deficiencies corrected by the appropriate discipline specific contractor, witnessed by facilities staff and the Commissioning Authority. Any final adjustments to the O&M manuals and as-builts due to the testing are made. In addition, the Commissioning Authority will return to the project approximately 9 months into the 12-month warranty period. During this visit(s) the Commissioning Authority will review with facility staff the current building operation and the condition of outstanding issues related to the original and seasonal commissioning. The Commissioning Authority will also interview facility staff and identify problems or concerns they have operating the building as originally intended. The Commissioning Authority will make suggestions for improvements and for recording these changes in the O&M manuals. The Commissioning Authority will identify areas that may come under warranty or under the original construction contract. The Commissioning Authority will also assist facility staff in developing reports and documents and requests for services to remedy outstanding problems.

Commissioning Formal Written Work Products

1. The written work products from all parties are described in Table below. The table describes each product, who is responsible for producing it, the general due date, the parties who receive it and who approves it, etc.

Product	*Created By*
Commissioning Plan	Commissioning Authority
Commissioning Meeting Minutes	Commissioning Authority
Commissioning Schedule	Commissioning Authority with Cx Team
Equipment documentation submittals	Contractors
Sequence Clarifications	Contractors and A/E as needed
Startup and initial pre-functional checklists	Contractors and Commissioning Authority
Startup and initial pre-functional checklists	Contractors

filled out	
Final TAB report	TAB
Issues log (deficiencies)	Commissioning Authority with responses provided by Contractors
Functional tests forms	Commissioning Authority
O&M Manuals	Contractors with review by Commissioning Authority
Commissioning record book & CD's	Commissioning Authority
Overall training plan	Commissioning Authority, CM, and Contractors
Specific training agendas	Contractors
Final Commissioning Report	Commissioning Authority

Summary Report

1. A final summary report by the Commissioning Authority will be provided to the Cx team. The report shall include an executive summary, list of participants and roles, brief building description, overview of commissioning and testing scope and a general description of testing and verification methods. For each piece of commissioned equipment, the report should contain the disposition of the commissioning authority regarding the adequacy of the equipment, documentation and training meeting the contract documents in the following areas:
    a. Equipment meeting the equipment specifications.
    b. Equipment installation.
    c. Functional performance and efficiency.
    d. Equipment documentation and design intent.
    e. Operator training.
2. All outstanding non-compliance items shall be specifically listed. Recommendations for improvement to equipment or operations, future actions, commissioning process changes, etc. shall also be listed. Each non-compliance issue shall be referenced to the specific functional test, inspection, trend log, etc. where the deficiency is documented. The functional performance and efficiency section for each piece of equipment shall include a brief description of the verification method used (manual testing, BAS trend logs, data loggers, etc.) and include observations and conclusions from the testing.
3. Appendices shall contain acquired sequence documentation, logs, meeting minutes, progress reports, deficiency lists, site visit reports, findings, unresolved issues, communications, etc. Pre-functional checklists, functional tests (along with blanks for the operators), monitoring data, and analysis will be provided in a separate labeled binder.
4. The commissioning plan, the pre-functional checklists, functional tests and monitoring reports will not be part of the final report but will be stored in the Commissioning Record in the O&M manuals, as described in the specification.

XI. Schedule

1. General Issues
    a. The following sequential priorities are followed:

i. Equipment is not "temporarily" started (for heating or cooling), until pre-functional checklist items and the entire manufacturer's pre-start procedures are completed and moisture, dust and other environmental and building integrity issues have been addressed.
ii. Functional testing is not begun until construction and start-up and TAB is completed, for a given system.
iii. The controls system and equipment it controls are not functionally tested until all points have been calibrated and pre-functional testing completed.
iv. TAB is not performed until the controls system has been sufficiently functionally tested and approved by the Commissioning Authority for TAB work. TAB is not performed until the envelope is completely enclosed and ceiling complete, unless the returns are ducted.

2. Project Schedule Commissioning Milestones
   a. The Contractor shall update and submit the Project Schedule to show commissioning milestone activities. Sufficient time shall be included to accommodate the requirements of this specification section. Regardless of the submitted schedule, all requirements of this specification section must be completed prior to system acceptance. The following activities shall be included in the Project Schedule at a minimum:
      i. Air Barrier Leakage Test
      ii. Testing, Adjusting, and Balancing (TAB)
      iii. TAB Verification
      iv. Pre-Functional Checklist Submittal
      v. Performance Verification Tests
      vi. Functional Performance Testing
      vii. Deficiency Correction
      viii. Re-Testing
      ix. Training
      x. Systems Manual, Maintenance Plan, and Service Life Plan Submission
   b. Commissioning Agent Milestone Schedule

	Actual Date	**Milestone**	**Schedule Time**
	Complete	Qualifications	Submitted with cost proposal.
	02.05.2025	Design Phase Commissioning Coordination Meeting	Prior to 100% DD design
	02.05.2025	Design Phase Commissioning Plan	Within 2 weeks following Design Commissioning Coordination Meeting
	02.21.2025	100% DD Design Review Comments (Performed internally)	Within 2 weeks following receipt of 100% DD Design Documents.
		100% Design Review Comments	Within 2 weeks following receipt of 100% Design.
		Construction Phase Commissioning Plan	Within 2 weeks following receipt of 100% Design.
		Corrected Final Design Review Back check	Within 2 weeks following receipt of Corrected Final Design.
		Construction Phase Commissioning Coordination Meeting	30 days after construction. Held at site
		Progress Meetings	Ongoing through construction

		Project Schedule Review	Ongoing through construction
		Construction Submittal and Shop Drawing Reviews	Within 2 weeks after receipt of each submittal.
		Pre-Functional Checklists Submitted by Construction Contractor	Within 2 weeks after receipt.
		Pre-Functional Inspection	Following pre-functional checklist submittal by contractor and prior to Functional Performance Testing.
		Trend Log Review	At least 7 days prior to scheduled Functional Performance Tests for HVAC systems; review within 3 calendar days.
		Functional Performance Testing	Following pre-functional inspection and all testing as required by specifications. Deficiencies reported within 1 week following test.
		Training Plan Review	Within 2 weeks of receipt.
		Systems Manual and Maintenance Plan Review	Within 2 weeks of receipt.
		Commissioning Report	Within 1 week of completion of all activities except for deferred tests and post-construction activity.
		Deferred Testing Commissioning Report Update	Within 1 week following Deferred Testing
		Trend Log Review	Monthly after construction up to 9 months. Review within 1 week after receipt.
		Trend Log Addendum	Within 2 weeks after receipt of the final trend log.
		Post-Occupancy Review	Concurrent with 9-month warranty walkthrough
		Post-Occupancy Addendum	Within 2 weeks following site visit.
		Post-Occupancy Survey	9 months after construction completion (seasonal)

XII. Appendix A – System Verification Checklists (Sample)

~~~~ To be submitted during the early Construction Phase of Project ~~~~

XIII. Appendix B - Functional Performance Tests (Sample)

~~~~ To be submitted during the early Construction Phase of Project ~~~~

SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and General Provisions of the Prime Contract, including amended General Conditions and other Division 1 Specification Sections, apply to Work of this Section.

1.02 SUMMARY

A. The intent of this Section is to indicate the Work required by the Contractors and to provide information regarding the duties, responsibilities, and cooperation required by the Contractors, with similar requirements for the subcontractors and suppliers.

B. Owners right to maintain current operations

C. Occupancy requirements

D. Work by Owner

E. Permits, fees, and notices

F. Labor and materials

G. Verifications of existing dimensions

H. Project security

I. Coordination of work

J. Time of commencement and completion

K. Schedule of contract responsibilities

1.03 WORK UNDER SEPARATE CONTRACTS

A. Prime Contracts are defined to include the following contracts described in the Schedule of Contract Responsibilities included hereinafter; and each is recognized to be a major part of the project, with Work to be performed concurrently and in close coordination with Work of other Prime Contracts.

B. The "Contract Documents," as defined in the General Conditions, include "the Drawings." Although Drawings are grouped and identified by classification of the Work, Contractors shall be responsible for their Work as specified herein and as

indicated on the Drawings. Although the majority of the Drawings are "to scale," Contractors are directed to use indicated dimensions for determining material quantities and for other reasons. No additional monies will be allowed due to Contractors using "scaling instruments" to determine material quantities or for other reasons.

C. Separate prime contracts will be awarded as per the **"Schedule of Contract Responsibilities"** (see Part 3 – Execution). Contractors shall include Work required by the Specifications and Drawings for each contract area defined in the Schedule.

D. Work for the complete construction of the Project will be under multiple prime contracts with the Owner. The Construction Manager will manage the construction of the Project.

E. Each Contractor shall be responsible for demolition and disposal of existing items relative to his Contract.

1.04 ADMINISTRATIVE RESPONSIBILITIES OF PRIME CONTRACTORS AND CM

A. The Construction Manager shall be responsible for the maintenance of the Construction Schedule and management of every phase of the Work.
   1. Each Contractor shall read the Specifications and Drawings for other separate Contracts for fixed equipment and the like to be incorporated or attached or built into the Work; and familiarize himself with the requirements and responsibilities of other Contracts to enable the required coordination and supervision.
   2. Each Contractor shall also familiarize himself with other items to be incorporated into the Work including equipment and Work by the Owner.
   3. Each Contractor shall cooperate with the Construction Manager in notifying him when the Work is at a stage to require the services of other Contractors and shall notify the Construction Manager in the event that such other Contractors do not carry out their responsibilities in connection with such notification.

B. Contractors shall cooperate with and assist the Construction Manager in the preparation of construction progress and procedures, schedule of product deliveries, and their effect on the overall project progress and completion. Other Contractors shall cooperate in getting their Work and the Work of their subcontractors completed according to the schedule as prepared and maintained by the Construction Manager. Each Contractor shall immediately notify the Construction Manager of a delay in delivery of products or the scheduled date of completion that may affect the total progress of construction.

C. The Owner will furnish the topographical survey, either as a part of these Drawings or separately, giving the general topographical lines existing at the site and the property lines.

D. Contractors required to make connections to existing utilities, especially sewerage where gravity flow occurs, shall verify grades and locations at points of such connections and shall notify the Construction Manager of circumstances which would adversely affect the proper flow or connection to such facilities.

1.05 PRIME CONTRACTORS USE OF PREMISES

A. Use of the Site: Limit use of the premises to work in areas indicated. Confine operations to areas within contract limits indicated. Do not disturb portions of the site beyond the areas in which the Work is indicated.
   1. Owner Occupancy: Allow for Owner occupancy and use by the public.
   2. Driveways and Entrances: Keep driveways and entrances serving the premises clear and available to the Owner, the Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on site.

B. Use of the Existing Building: Maintain the existing building in a weathertight condition throughout the construction period. Repair damage caused by construction operations. Take all precautions necessary to protect the building and its occupants during the construction period.

C. The erection of signage other than what is specified in the contract documents is prohibited.

D. The use of drones on the property is restricted without prior written permission. Operators must be licensed and have insurance specific to the operation of aerial drones.

E. Photographs or other imagery of the work in progress or renderings of the project shall not include any personal identifiable information of the project, the property, the Owner, or any occupants.

1.06 OWNERS RIGHT TO MAINTAIN OPERATIONS

A. During the course of this Project, normal and customary functions and operations must be maintained. The Contract Documents are intended to define a strict separation between the school activities of students and staff from the activities of the construction project.

B. The Construction Manager, Architect, and Owner will not tolerate any visible or audible actions initiated or responded to by any employees of Contractors on this Project toward any students, teachers, or staff members at the school system. Violators shall be promptly removed from the site.

C. The Owner intends to instruct students, teachers, and staff to refrain from communications with Contractor's personnel working on this Project. All communication with Owner and staff shall be through the Construction Manager.

D. Contractors must expend their best effort toward protection of the health, safety, and welfare of occupants on the Owner's property during the course of Work on this Project.

1.07 OCCUPANCY REQUIREMENTS

A. Full Owner Occupancy: The Owner will occupy the site and existing building during the entire construction period. Cooperate with the Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with the Owner's operations.

B. Partial Owner Occupancy: The Owner reserves the right to occupy and to place and install equipment in completed areas of the building prior to Substantial Completion, provided such occupancy does not interfere with completion of the Work. Such placing of equipment and partial occupancy shall not constitute acceptance of the total Work.
   1. The Construction Manager will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner occupancy.
   2. Party which obtained general building permit shall obtain a Certificate of Occupancy from local building officials prior to Owner occupancy.
   3. Prior to partial Owner occupancy, mechanical and electrical systems shall be fully operational. Required inspections and tests shall have been successfully completed. Upon occupancy, the Owner will operate and maintain mechanical and electrical systems serving occupied portions of the building.
   4. Upon occupancy, the Owner will assume responsibility for maintenance and custodial service for occupied portions of the building.

1.08 WORK BY OWNER

A. The Owner intends to complete the following items of Work outside the provisions of these Contract Documents. Contractors shall not restrict or interfere with the Owner's right to the Project to accomplish this Work.
   1. Equipment and furniture except as scheduled and specified under Divisions 11 and 12 and shown on the Drawings.

2. Items which may be deleted from Contracts for Work as required by the Contract Documents.
3. Existing school maintenance work.
4. The purchase and supplying of certain materials as noted in the Project Manual.
5. The Owner, under separate contract, shall provide removal of identified asbestos containing materials from the existing structure. The asbestos report is available through the Construction Manager upon request.

1.09 PERMITS, FEES, AND NOTICES

A. The Construction Manager will secure the general building permit for the Owner. Each Contractor shall secure and pay for other permits, governmental fees, and licenses necessary for the proper execution and completion of his Work, which are applicable at the time the bids are also received. Fees to relocate utilities on Owner's property shall be included in the bid of the Contractor doing the relocation.
   1. State filing fees for plan approval are the responsibility of the Owner and will be paid by the Owner.

B. Utility Tie-Ins: Shall be arranged with local utility company and other involved parties for minimum interruption of service.

C. Shutdowns of existing systems shall be limited to minimum time required and scheduled with other involved parties. Provide 2 days written notice of shutdown to Construction Manager and Owner.

D. Inspections of installed work shall be performed by the governing authority as arranged for by the Contractor. Work shall not be covered until approved.

E. Each Contractor shall give notices and comply with laws, ordinances, rules, regulations, and orders of public authorities bearing on the performance of his Work. If a Contractor observes that the Contract Documents are at variance therewith, he shall promptly notify the Construction Manager in writing, and necessary changes shall be adjusted by appropriate notification. If a Contractor performs Work knowing it to be contrary to such laws, ordinances, rules, and regulations, and without such notice to the Construction Manager, he shall assume full responsibility therefore and shall bear the costs attributable thereto.

1.10 LABOR AND MATERIALS

A. Unless otherwise specifically noted, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of his Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

B. Each Contractor shall enforce strict discipline and good order among his employees or other persons carrying out Work of his Contract and shall not permit employment of unfit person or persons or anyone not skilled in the task assigned to them.

C. Contractors and Subcontractors shall be subject to such rules and regulations for the conduct of the Work as the Owner may establish. Employees shall be properly and completely clothed while working. Bare torsos, legs and feet will not be allowed. Possession or consumption of alcoholic beverages or drugs, tobacco or other noxious behavior on the site is strictly prohibited. Violators shall be promptly removed from the site. Smoking is not permitted on school property or within school buildings.

D. Contractors will conduct criminal background checks (extent of and/or service to be used will be established by the Owner) on every employee assigned to work on the Project and clear them through the National Sex Offender Registry prior to their assignment to Project. Contractors will require the same of sub-contractors.

E. ID Badges will be issued by The Skillman Corporation upon receipt of verification from the Contractor that the employee/subcontractor employee or independent contractor has a satisfactory record to work on the Project.

F. E-Verify Compliance: Pursuant to I.C. 22-5-1.7, Contractor shall enroll in and verify the work eligibility status of all newly hired employees of Contractor through the E-Verify Program (Program). Contractor is not required to verify the work eligibility status of all newly hired employees through the Program if the Program no longer exists. Also pursuant to I.C. 22-5-1.7, Contractor must execute an affidavit affirming that the Contractor does not knowingly employ an unauthorized alien and confirming Contractor's enrollment in the Program, unless the Program no longer exists, shall be filed with the Owner prior to the execution of this contract. This contract shall not be deemed fully executed until such affidavit is delivered to the Owner.

Contractor and its subcontractors shall not knowingly employ or contract with an unauthorized alien or retain an employee or contract with a person that contractor or its subcontractor subsequently learns is an unauthorized alien. If Contractor violates this provision the Owner shall require Contractor to remedy the violation not later than thirty (30) days after the Owner notifies Contractor. If Contractor fails to remedy the violation within the thirty (30) day period, the Owner shall terminate the contract for breach of contract. If Owner terminates the contract, Contractor shall be liable to the Owner for actual damages in addition to any other contractual remedies. There is a rebuttable presumption that Contractor did not knowingly employ an unauthorized alien if Contractor verified the work eligibility status of the employee through the Program.

Prior to performing any work, Contractor shall require each subcontractor to certify to Contractor that the subcontractor does not knowingly employ or contract with an unauthorized alien and has enrolled in the Program. Contractor shall maintain on file a certification from each subcontractor throughout the duration of this contract or project which is the subject of this contract. If Contractor determines that a subcontractor is in violation of this provision, Contractor may terminate its contract with the subcontractor for such violation. In Accordance with I.C. 5-16-13 Contractor must provide the E-Verify Case Number of every employee that works on the project. This requirement includes the contractor's subs and suppliers to the fourth (4^{th}) tier.

G. The Owner is requiring that all contractors' personnel and their onsite employees and subcontractors submit to expanded history and child protection index check. Contractors shall enroll in the Safe Vendor Program through Safe Hiring Solutions www.safehiringsolutions.com. Enrollment in Safe Vendor will ensure contractors employees are vetted in accordance with I.C. 20-26-5-10 for expanded criminal history and expanded child protection index check. Contractor is responsible for the cost of enrollment and employee background check. All contractors' personnel and employees, once cleared for work will be issued a project identification badge that must be worn at all times while on site. All contractors/subcontractors employees shall provide name, address, picture state driver's license or picture identification card and/or Safe Vendor Card to The Skillman Corporation Site Manager upon request.

H. Pursuant to Indiana Code 5-16-13 Requirements for Contractors on Public Works Projects enacted by the Indiana Legislator requires, in addition to requirements already in effect, contractors to comply with the following:

1. Tier 1 –General/Prime Contractors to self-perform 15% of their total Contract.
2. Qualification thru the Department of Administration or INDOT requirement in accordance with IC 4-13.6-4.
    a. **Bids shall not be considered unless (1) the Prime Bidder and (2) all lower tiered subcontractors whose subcontract value is estimated to be $300,000 or more are qualified at the time of the bid in accordance with IC 4 – 13.6 – 4.**
3. Include 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 with Bid.
4. Minimum Insurance Requirements $1M/occurrence $2M/aggregate. However, check your bidding requirements as the Owners may have higher limit requirements.
5. Mandatory enrollment in E-Verify by all contractors down to the 4th Tier Sub Contracts and must provide the case verification number of all employees working on the project.

6. Prohibits contractors down to the 4th Tier Sub Contract from paying employees in cash.
7. Requirement to retain payroll records for 3 years
8. All contractors down to the 4th Tier Sub Contract must comply with Fair Labor Act, Indiana's Workers Compensation and Unemployment Compensation Insurance.
9. Mandatory Training Requirements based upon number of employees.
10. Failure to comply may result in debarment from public works projects for up to 4 years.

I. All contractors down to the 4th Tier Sub Contract must maintain general liability insurance in at least the following amounts: Each Occurrence Limit of $1,000,000 and General Aggregate Limit of $2,000,000. Other requirements and limits may apply see specification section 00 50 00 Schedule of Insurance Requirements.

1.11 CUTTING AND PATCHING

A. Refer to Section 01 73 10 – Cutting and Patching, for provisions on this subject.

1.12 VERIFICATIONS OF EXISTING DIMENSIONS

A. When verification of existing dimensions is required, the Contractor requiring said verification for the construction or fabrication of his material shall be the Contractor responsible for the procurement of the field information.

1.13 PROJECT SECURITY

A. Each Prime Contractor shall take all reasonable precautions to prevent injury, damage or loss to people and property in, on and adjacent to the project. This shall include not only their own work or property but that of other contractors and the Owner.

B. If deemed necessary by The Construction Manager a project wide security program may be developed for the purpose of preventing damage or loss at the project site or property adjacent thereto. Once accepted by the Owner, contractors shall comply.

1.14 SCHEDULE OF CONTRACT RESPONSIBILITIES - SCOPE

A. Contractors shall submit their proposals based on the work included under each contract area as listed herein. Include Work necessary for a complete project, as shown on the Drawings and called for in the Specifications.

B. Questions concerning the phasing or "Schedule of Contract Responsibilities" should be directed to the Construction Manager, who will be the interpreter and be responsible for this Schedule of Contract Responsibilities and Contract Breakdown, prior to submitting proposals and during construction.

C. The requirements of Division 1 are a part of the Work of each and every contract area. The Contractor for any one contract area shall be familiar with the Work and requirements of all other contract areas.

D. Certain Specification Sections describe Work to be performed under several contract areas. (Example: 06 10 00 - Rough Carpentry.) Provide Work of this nature as required for each contract area whether or not enumerated in the Schedule of Contract Responsibilities.

E. The following contract areas are broken down by Specifications Section conforming basically to the CSI format.

F. The Drawings and Specifications as furnished for each of the Contracts is for the convenience of the Contractor in preparing a proposal for this Project. However, each Contractor is responsible to review the complete set of Drawings and Specifications to assure that Work required to be installed to complete his phase of the Work is included in his proposal. This "Schedule of Contract Responsibilities" is a definition of the work as it is to be bid in separate contracts. Where a specific item of Work is not defined, but is normally inherent to a trade, or is included in the scope of the applicable technical revision, it will be the responsibility of that Contractor to include the Work in his proposal.

G. This "Schedule of Contract Responsibilities" is to aid each Contractor in defining the Scope of Work to be included in his proposal. However, omissions from this "Schedule of Responsibilities" do not relieve the Contractor from including in his proposal that Work which will be required to complete his Contract. Each Contractor should read the "Schedule of Contract Responsibilities" completely to familiarize himself with the Work of other Contractors that may have Work in adjacent areas and to coordinate the interfacing problems that may occur as the work is assembled and constructed.

H. Where specific Work is to be completed under a particular phase of the Project and the Work is wholly or partially completed by other trades because of the type of work involved or jurisdictional trade agreements, the Contractor will be responsible to subcontract the Work as necessary to complete the Work included in his Contract. No delay in the Work will be allowed due to the failure of the Contractor to subcontract related work required by jurisdictional trade agreements.

1.15 COORDINATION OF WORK

A. Each Contractor is responsible to coordinate his Work with the Work of other trades and other Contractors and requirements of the school system. The Contractor must make space allowances for Work of other Contractors; provide necessary openings where indicated or implied by the Drawings and Specifications. Each Contractor is responsible to protect his own Work.

1.16 TIME OF COMMENCEMENT AND COMPLETION

A. The Contractor shall commence work within ten (10) days after being notified in writing to proceed and shall complete the Work within the time limitations established in the Form of Agreement.
   1. It is anticipated that construction will start within **60** calendar days after receipt of bids.
   2. Construction shall be complete within **689** consecutive calendar days, or earlier, after Notice to Proceed.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 SCHEDULE OF CONTRACT RESPONSIBILITIES

3.02 GENERAL REQUIREMENTS

A. PROVIDED BY OWNER THROUGH THE CONSTRUCTION MANAGER

Section	01 32 00	Schedules and Reports
Section	01 45 10	Testing Laboratory Services
Section	01 59 10	Project Office
Section	01 71 50	Final Cleaning
Section	07 05 23	Pressure Testing an Air Barrier System for Air Tightness
Section	23 05 93	Testing, Adjusting, and Balancing for HVAC

B. PROVIDED BY ALL CONTRACTORS AS APPLICABLE

Section	01 12 00	Multiple Contract Summary
Section	01 2 300	Alternates
Section	01 25 00	Contract Modification Procedures
Section	01 28 00	Schedule of Values
Section	01 29 00	Applications for Payment
Section	01 31 00	Project Meetings
Section	01 32 00	Schedules and Reports
Section	01 33 00	Submittal Procedures
Section	01 40 00	Quality Requirements
Section	01 45 10	Testing Laboratory Services (Paragraph 1.05)
Section	01 50 50	Temporary Facilities and Controls
Section	01 54 60	Environment Protection
Section	01 54 80	Utility Protection
Section	01 56 30	Water Control
Section	01 56 90	Housekeeping & Safety
Section	01 59 20	Offices and Sheds
Section	01 60 00	Product Requirements
Section	01 72 50	Work Layout
Section	01 73 29	Cutting and Patching
Section	01 77 00	Contract Closeout

Section	01 91 13	General Commissioning Requirements

All Contractors shall provide their Superintendents with radios capable of handling multiple channels and compatible with radios used by the Construction Manager.

Autodesk Build is replacing **PlanGrid**. **Autodesk Build** does not require users to purchase a license. **Contractors** will be invited to the project and required to use this tool. **Autodesk Build** will be used as the **Current Set** and **As-Built Record Drawings.** Additionally, it will be used to track **Issues** for **Safety**, **QA/QC**, **Non-Compliance Issues**, **Work Completion List** and **Punch List**.

C. PROVIDED BY DESIGNATED CONTRACTORS

Section	01 21 00	Allowances
Section	01 51 10	Temporary Electricity, Lighting and Warning Systems
Section	01 51 30	Temporary Heating, Ventilation and Cooling
Section	01 51 50	Temporary Water
Section	01 51 60	Temporary Sanitary Facilities
Section	01 51 80	Temporary Fire Protection
Section	01 52 10	Construction Aids and Temporary Enclosures
Section	01 52 60	Rubbish Container
Section	01 53 10	Fences (Temporary Security)
Section	01 53 20	Tree and Plant Protection
Section	01 53 30	Barricades
Section	01 55 00	Access Roads and Parking Areas
Section	01 56 20	Dust Control
Section	01 56 30	Water Control
Section	01 56 80	Erosion Control
Section	01 57 60	Project Signs
Section	01 72 00	Field Engineering

3.03 BID CATEGORIES

A. BID CATEGORY NO. 1 – GENERAL TRADES

General Requirements in Paragraph 3.02.B above.

Section	01 51 50	Temporary Water
Section	01 51 60	Temporary Sanitary Facilities
Section	01 51 80	Temporary Fire Protection
Section	01 52 10	Construction Aids and Temporary Enclosures
Section	01 52 60	Rubbish Container
Section	01 53 10	Fences (Temporary Security) (ADD per Add. 01)
Section	01 53 20	Tree and Plant Protection (ADD per Add. 01)
Section	01 53 30	Barricades
Section	01 55 00	Access Roads and Parking Areas
Section	01 56 20	Dust Control

Section	01 56 80	Erosion Control
Section	01 57 60	Project Signs
Section	01 72 00	Field Engineering
Section	03 06 30.01	Concrete Schedule
Section	03 30 00	Cast-in-Place Concrete
Section	05 58 13	Column Covers
Section	05 73 00	Decorative Metal Railings
Section	06 10 00	Rough Carpentry
Section	06 16 00	Sheathing
Section	06 20 23	Interior Finish Carpentry
Section	06 42 00	Wood Paneling
Section	07 05 23	Pressure Testing an Air Barrier System for Air Tightness
Section	07 13 00	Sheet Waterproofing
Section	07 84 13	Penetration Firestopping
Section	07 84 43	Joint Firestopping
Section	07 92 00	Joint Sealants
Section	07 95 13.13	Interior Expansion Joint Cover Assemblies
Section	08 11 13	Hollow Metal Doors and Frames
Section	08 14 16	Flush Wood Doors
Section	08 31 13	Access Doors and Frames
Section	08 33 13	Coiling Counter Doors
Section	08 33 23	Overhead Coiling Doors
Section	08 36 13	Sectional Doors
Section	08 71 00	Door Hardware
~~Section~~	~~08 81 13~~	~~Decorative Glass Glazing~~ (DELETE per Add. 01)
Section	08 91 19	Fixed Louvers
Section	09 66 23	Resinous Matrix Terrazzo Flooring
Section	09 67 11	Fluid-Applied Cementitious Urethane Flooring
Section	09 67 12	Fluid-Applied Epoxy Aggregate Flooring
Section	09 67 23	Decorative Resinous Flooring (Aggregate)
Section	10 11 00	Visual Display Units
Section	10 14 19	Dimensional Letter Signage
Section	10 14 23.16	Interior Panel Signage
Section	10 21 13.19	Solid Polymer Toilet Compartments
Section	10 21 23	Cubicles
Section	10 22 39	Operable (Folding Panel) Partitions
Section	10 26 00	Wall and Door Protection
Section	10 28 00	Toilet, Bath, and Laundry Accessories
Section	10 41 16	Lock Box
Section	10 43 13	Defibrillator Cabinets
Section	10 44 13	Fire Extinguisher Cabinets
Section	10 44 16	Fire Extinguishers
Section	11 13 00	Loading Dock Equipment
Section	11 31 00	Residential Appliances
Section	11 52 13	Front Projection Screens
Section	11 68 13	Playground Equipment and Structures

Section	12 21 13	Horizontal Louver Blinds
Section	12 24 13	Roller Window Shades
Section	12 93 00	Site Furnishings and Amenities
Section	14 24 00	Hydraulic Elevators
Section	22 13 23	Sanitary Waste Interceptors (ADDED per Add. 01)
Section	31 10 00	Site Clearing
Section	31 20 00	Earth Moving
Section	31 23 19	Dewatering
Section	31 25 00	Erosion Control
Section	31 32 00	Geotextile
Section	31 50 00	Excavation Support and Protection
Section	32 13 13.	Concrete Paving
Section	32 18 16	Playground Protective Surfacing
Section	32 31 13	Chain Link Fences and Gates
Section	32 31 19	Decorative Metal Fences and Gates
Section	32 91 13	Soil Preparation
Section	32 92 00	Turf and Grasses
Section	32 93 00	Plants
Section	33 05 00	Common Work Results for Utilities
Section	33 11 13	Facility Water Distribution Piping
Section	33 13 13	Facility Sanitary Sewers
Section	33 41 00	Storm Utility Drainage Piping
Section	33 46 00	Subdrainage

Clarifications:

1. Contractor is responsible for private utility locates prior to any excavation or earthmoving. In locations where anticipated utility cannot be located, Contractor shall hydro-vacuum excavate to locate unknown utility.
2. Contractor is responsible to supply dumpsters and rubbish containers for all Contractors and Work for duration of the project. Masonry and Metal Stud & Drywall Contractors are to provide their own dumpsters for their Work.
3. Provide road and parking lot cleaning and sweeping for the duration of the project.
4. Provide and maintain all erosion control measures, including all inspections and documentation required by IDEM following rain events.
5. Provide temporary sanitary facilities for all Contractors for duration of project. Placement of sanitary facilities to be coordinated with Construction Manager.
6. Contractor is responsible to provide and maintain concrete washout for all concrete spoils.
7. All in wall blocking is the responsibility of the Metal Studs & Drywall Contractor. "Wall blocking" is to be considered any dimensional lumber, sheathing, plywood, danbacking, metal strapping or similar material. Specific locations of wood products by this Contractor are noted in other clarifications.
8. In locations where clips, sheathing, nailers, etc. are depicted outside of the wall line (finished face) to support a finish material or product, the Contractor

installing the finish material or product is also responsible for all substrate materials.

9. Contractor is responsible to provide (6) knock down fames with temporary doors and locking hardware for use in temporary partitions as directed by the Construction Manager.
10. Furnish and provide all FRP and Store Front Door hardware to the Aluminum Storefront & Glazing Contractor. This material is to be shipped directly from the supplier to Storefront & Glazing Contractor's shop.
11. Contractor to include sweeping compound and 500 man hours for general building, site cleanup, or other work to be performed by a Skilled Laborer at the direction of Construction Manager.
12. Contractor to include 200 man hours for Skilled Carpenter for use at the discretion of the Construction Manager.
13. This Contractor is responsible for all 07 84 13 – Penetration Firestopping and 07 84 43 – Joint Firestopping for the entire project. This includes top and bottom wall conditions and wall penetrations. This Contractor shall coordinate with other Prime Contractors in order to install this Work prior to access being covered or restricted.
14. This Contractor is responsible for all joint sealants excluding 00 42 00 – Unit Masonry Systems, 07 24 19 – EIFS Systems, 08 41 13 – Aluminum Framed Entrances and Storefront Systems and 09 96 63 – Interior Finish Systems (interior and exterior seal).
15. Contractor is responsible for all access doors noted on Architectural Drawings. Any access doors required to support MEPF equipment access not noted on Architectural Drawings is the responsibility of MEPF Contractor installing the equipment.
16. General Trades Contractor shall coordinate with Asphalt Contractor during the cement stabilization process to verify that parking lot and drive subgrade is accurate to 0.1'.
17. Contractor shall include the door hardware allowance of $35,000 as noted in 01 21 00 – Contract Allowances.
18. In regards to 07 05 23 – Pressure Testing an Air Barrier System for Air Tightness, the Owner / Construction Manager is responsible for hiring and paying for CMTA service. This Contractor shall review this specification in detail and perform Work as part of this Contract in accordance to this specification to achieve the desired test result. Costs related to rework or corrective action as part of this Contract due to failed pressure test is the responsibility of this Contractor.
19. Contractor is responsible for pouring concrete at all metal pan stair locations.
20. Contractor is responsible to install, maintain and remove temporary elevator shaft platforms for all Prime Contractors to work from during installation of any Work at top of elevator shaft.
21. Contractor is responsible for hauling excavation spoils created by their own Work. All spoils are to be removed from site.
22. This Contractor is responsible for all concrete Work noted for the entire project excluding dedicated equipment pads for MEPF Contractors.

23. The General Trades Contractor shall refer to Guideline Schedule and include in their bid all necessary cold weather concrete procedures or admixtures as required to meet the schedule.
24. All embedded metal fabrications including, but not limited to, anchor bolts, weld plates, angles, and leveling plates, will be furnished by the Structural Steel Contractor and installed by the General Trades Contractor. Installation shall be within required tolerances and anchor bolt assemblies shall be placed with templates only. General Trades Contractor shall supply as-built drawings to steel erector for coordination prior to steel placement.
25. Grouting of base plates will be by the Structural Steel Contractor.
26. Masonry reinforcement shall be furnished and installed by the Masonry Contractor.
27. Section 07 21 00 – Thermal Insulation that is below finished slab on grade elevation shall be provided by the General Trades Contractor. Section 07 21 00 Thermal Insulation cavity wall insulation behind the masonry veneer shall be provided by the Masonry Contractor. All other Section 07 21 00 Thermal Insulation shall be provided by Drywall Contractor.
28. In reference to Detail 19 / A-502 (typical), the Metal Studs, Drywall & Acoustic Ceiling Contractor is responsible for 6" cold formed metal framing, batt insulation, 5/8" glass-mat gypsum wall sheathing, 5/8" wall sheathing, 5/8" gypsum wallboard, 2x wood-preservative treated lumber, plywood faced foam insulation/sheathing (4.1") vapor-permeable, fluid-applied membrane air barrier and air barrier transition membrane.
29. In reference to Detail 20 / A-502 (typical), the General Trades Contractor is responsible for 2.5" thick polyisocyanurate board insulation, air / vapor barrier transition membrane and thermal break unfaced mineral wool insulation board.
30. The General Trades Contractor shall coordinate with Utility Companies for services as it pertains to this contractor's scope of work, as necessary.
31. Contractor shall include any sleeves indicated per plans passing through their work.
32. All metal bollards and covers shall be furnished by the Structural Steel Contractor for installation by the General Trades Contractor.
33. Unless noted otherwise, General Trades Contractor shall remove from site and properly dispose of all demolition debris and material.
34. General Trades Contractor shall provide and install the downspout boot tie-ins for the storm sewer system.
35. Contractor is responsible to saw cut, demolish and dispose of over paved stone and binder asphalt. Reference ~~Exterior Site Logistics Plan~~ Asphalt Paving Sequence Plan for locations of over paving. (REVISED per Addendum 01.)
36. Door lite and side lite glazing for all openings is to be provided and installed by Aluminum Storefront & Glazing Contractor. (ADDED per Addendum 01.)
37. General Trades Contractor shall include 18" depth with 5% spread rate of cement stabilization at all asphalt drives, parking lots, building pad and playground locations. Actual application depth and spread rate to be determined by Third Party Testing Agency. (ADDED per Addendum 01.)

38. Unless otherwise noted, the General Trades Contractor shall provide all new water distribution piping and related components for combined, domestic water, and services lines, storm piping, and sanitary piping (including sanitary waste interceptors), to within 5' of the building limits. The Plumbing and HVAC Contractors shall coordinate hand-off with the General Trades Contractor. (ADDED per Addendum 01.)
39. The General Trades Contractor shall provide incoming fire protection water service up to the flange/spigot 12" above finished floor at riser. (Reference Detail 1 / FP501). (ADDED per Addendum 01.)
40. The General Trades Contractor is responsible for establishing and maintaining compacted subgrade which the Asphalt Paving Contractor is responsible for the compacted aggregate and asphalt. Reference typical asphalt details on G4-00. (ADDED per Addendum 01.)

B. BID CATEGORY NO. 2 – ASPHALT PAVING

General Requirements in Paragraph 3.02.B above.

Section	31 20 00	Earth Moving
Section	32 12 16	Asphalt Paving
Section	32 17 13	Parking Bumpers
Section	32 17 23	Pavement Markings

Clarifications:

1. Contractor is responsible to over pave select locations with stone and binder by 2'-0". See ~~Exterior Site Logistics Plan~~ Asphalt Paving Sequence Plan for locations of over paving. (REVISED per Addendum 01.)
2. Contractor is responsible to pave through parking lot islands with stone and binder course asphalt. See ~~Exterior Site Logistics Plan~~ Asphalt Paving Sequence Plan for locations of over paving. (REVISED per Addendum 01.)
3. Contractor shall include in base bid the cost of additional mobilizations to complete paving work as outlined in Guideline Schedule.
4. Contractor shall include in base bid the cost to clean and properly prepare binder course asphalt to receive surface course.
5. Asphalt Contractor shall coordinate with General Trades Contractor during the cement stabilization process to verify that parking lot and drive subgrade is accurate to 0.1'.
6. Contractor is responsible for hauling excavation spoils created by their own Work. All spoils are to be removed from site.
7. This Contractor shall be aware of the General Trades Contractor performing 18" depth with 5% spread rate of cement stabilization at all asphalt drives, parking lots, building pad and playground locations. Actual application depth and spread rate to be determined by Third Party Testing Agency. (ADDED per Addendum 01.)
8. The General Trades Contractor is responsible for establishing and maintaining compacted subgrade which the Asphalt Paving Contractor is responsible for the compacted aggregate and asphalt. Reference typical asphalt details on G4-00. (ADDED per Addendum 01.)

C. BID CATEGORY NO. 3 – MASONRY

General Requirements in Paragraph 3.02.B above.

Section	01 52 60	Rubbish Container
Section	04 20 00	Unit Masonry
Section	04 72 00	Cast Stone Masonry
Section	07 05 23	Pressure Testing an Air Barrier System for Air Tightness
Section	07 21 00	Thermal Insulation
Section	07 92 00	Joint Sealants

Clarifications:

1. Contractor is responsible for all joint sealant work specific to the masonry system(s).
2. Contractor is responsible for dumpsters and rubbish containers for own Work.
3. At the conclusion of masonry work (or phase), this Contractor shall repair construction areas damaged by Masonry Equipment. The expectation is filling ruts and back dragging stone areas to achieve pre-work conditions.
4. Contractor shall prepare punched openings at guaranteed dimensions within the tolerance of Aluminum Storefront & Glazing Contractor. Contractor shall construct to approved aluminum storefront shop drawings.
5. In regards to 07 05 23 – Pressure Testing an Air Barrier System for Air Tightness, the Owner / Construction Manager is responsible for hiring and paying for CMTA service. This Contractor shall review this specification in detail and perform Work as part of this Contract in accordance to this specification to achieve the desired test result. Costs related to rework or corrective action as part of this Contract due to failed pressure test is the responsibility of this Contractor.
6. Masonry reinforcement shall be furnished and installed by the Masonry Contractor.
7. Section 07 21 00 Thermal Insulation that is below grade shall be provided by the General Trades Contractor. Section 07 21 00 Thermal Insulation cavity wall insulation behind the masonry veneer shall be provided by the Masonry Contractor. All other Section 07 21 00 Thermal Insulation shall be provided by Drywall Contractor.
8. In reference to Detail 20 / A-502 (typical), the General Trades Contractor is responsible for 2.5” thick polyisocyanurate board insulation, air / vapor barrier transition membrane and thermal break unfaced mineral wool insulation board.
9. Contractor shall refer to Guideline Schedule and include in their bid all necessary cold weather masonry installation procedures and mortar admixtures as required to meet schedule.
10. Contractor shall include any sleeves indicated per plans passing through their work.
11. Masonry Contractor is responsible for fabrication and installation of loose lintels for the Masonry scope of work.

12. Masonry Contractor is responsible to provide temporary construction water for their Work.

D. BID CATEGORY NO. 4 - STRUCTURAL STEEL & GLUE LAMINATE

General Requirements in Paragraph 3.02.B above.

Section	01 53 30	Barricades
Section	05 12 00	Structural Steel Framing
Section	05 31 00	Steel Decking
Section	05 50 00	Metal Fabrications
Section	05 51 00	Metal Stairs
Section	05 52 13	Pipe and Tube Railings
Section	06 15 13	Wood Roof Decking
Section	06 18 00	Glued-Laminated Construction

Clarifications:

1. Grouting of base plates will be by the Structural Steel Contractor.
2. All embedded metal fabrications including, but not limited to, anchor bolts, weld plates, angles, and leveling plates, will be furnished by the Structural Steel Contractor and installed by the General Trades Contractor.
3. All metal bollards and covers shall be furnished by the Structural Steel Contractor for installation by the General Trades Contractor.
4. The Structural Steel, Roofing, Mechanical, Electrical and Plumbing Contractors shall coordinate with each other regarding roof penetration frames.
5. Contractor is responsible for protection of wood roof decking as portrayed in drawing details and outlined in specifications.
6. Contractor shall review Guideline Schedule for timing and sequence of steel erection and detailing. The expectation is multiple crews will work simultaneously to ensure detailing of prior building unit does not impede on erection of subsequent building unit. For example, detailing and inspections of Building Unit D must occur simultaneously with steel erection of Building Unit C. (ADDED per Addendum 01.)

E. BID CATEGORY NO. 5 - ROOFING

General requirements in Paragraph 3.02.B above.

Section	06 16 00	Sheathing
Section	07 05 23	Pressure Testing an Air Barrier System for Air Tightness
Section	07 21 00	Thermal Insulation
Section	07 31 13	Asphalt Shingles
Section	07 54 00	Thermoplastic Membrane Roofing (PVC and KEE)
Section	07 62 00	Sheet Metal Flashing and Trim
Section	07 71 00	Roof Specialties
Section	07 72 00	Roof Accessories
Section	07 92 00	Joint Sealants

Clarifications:

1. In regards to 07 05 23 – Pressure Testing an Air Barrier System for Air Tightness, the Owner / Construction Manager is responsible for hiring and paying for CMTA service. This Contractor shall review this specification in detail and perform Work as part of this Contract in accordance to this specification to achieve the desired test result. Costs related to rework or corrective action as part of this Contract due to failed pressure test is the responsibility of this Contractor.
2. Roofing Contractor is responsible for all wood blocking, sheathing, insulation and plywood required for roof systems including MEP curbs, metal roof coping, flashings, gutters, roof hatches, or the like, interfacing with roofing.
3. Roofing Contractor shall coordinate roof penetrations with the appropriate trades and ensure that all penetrations conform with the roof systems installation requirements. Provide all material necessary to seal these penetrations.
4. Roofing Contractor to provide roofing gutters and downspouts and include tie into storm piping system. Downspout boots shall be provided by the General Trades Contractor.
5. Roofing Contractor is responsible for top of wall parapets at all walls (both metal stud and masonry walls). This includes the plywood or sheathing, blocking or nailers, membrane flashing, metal coping and flashings, and all necessary fasteners and joint sealants.

F. BID CATEGORY NO. 6 – METAL STUDS, DRYWALL & ACOUSTIC CEILINGS

General Requirements in Paragraph 3.02.B above.

Section	01 52 60	Rubbish Container
Section	05 40 00	Cold-Formed Metal Framing
Section	06 16 00	Sheathing
Section	07 05 23	Pressure Testing an Air Barrier System for Air Tightness
Section	07 21 00	Thermal Insulation
Section	07 24 19	Water-Drainage Exterior Insulation and Finish System
Section	07 27 13	Self-Adhering Air Barriers
Section	07 27 26.02	Vapor-Permeable, Fluid-Applied Membrane Air Barrier
Section	07 42 13.23	Metal Composite Material Wall Panels
Section	07 92 00	Joint Sealants
Section	07 92 19	Acoustical Joint Sealants
Section	08 31 13	Access Doors and Frames
Section	09 21 16	Gypsum Board Assemblies
Section	09 51 13	Acoustical Panel Ceilings
Section	09 54 23	Linear Metal Ceilings
Section	09 84 33	Sound-Absorbing Wall Units (ADDED per Add. 01)
Section	09 84 33.13	Abuse-Resistant Sound-Absorbing Wall Unit
Section	09 84 36	Sound-Absorbing Ceiling Units

Section 09 96 63 Interior Finish System

Clarifications:

1. All in wall blocking is the responsibility of the Metal Studs & Drywall Contractor. "Wall blocking" is to be considered any dimensional lumber, sheathing, plywood, danbacking, metal strapping or similar material.
2. All wall blocking is to be coordinated with MEP Contractors to ensure rough-in routing is maintained.
3. All wall blocking for items such as casework, restroom accessories, furniture, electronics, etc. is to be installed following review and coordination with approved submittals and shop drawings.
4. In locations where clips, sheathing, nailers, etc. are depicted outside of the wall line (finish face) to support a finish material or product, the Contractor installing the finish material or product is also responsible for all substrate materials.
5. Contractor is responsible for dumpsters and rubbish containers for own Work.
6. Contractor to include 250 man hours by Skilled Carpenter for use at discretion of the Construction Manager.
7. Contractor to include 250 man hours by Skilled Drywall Finisher for use at discretion of the Construction Manager.
8. Contractor to include 5,000 SF ACT-1 materials and installation for use at discretion of the Construction Manager.
9. Metal Stud and Drywall Contractor is responsible for the tile backer board at all tiling locations. Reference Specification Section 09 30 00 – Tiling for additional information.
10. Contractor is responsible for joint sealants for complete 07 24 19 - Water-Drainage Exterior Insulation and Finish System.
11. Contractor is responsible for joint sealants for complete 09 96 63 - Interior Finish System.
12. Contractor shall prepare punched openings at guaranteed dimensions within the tolerance of Aluminum Storefront & Glazing Contractor.
13. In regards to 07 05 23 – Pressure Testing an Air Barrier System for Air Tightness, the Owner / Construction Manager is responsible for hiring and paying for CMTA service. This Contractor shall review this specification in detail and perform Work as part of this Contract in accordance to this specification to achieve the desired test result. Costs related to rework or corrective action as part of this Contract due to failed pressure test is the responsibility of this Contractor.
14. Section 07 21 00 – Thermal Insulation that is below finished slab on grade elevation shall be provided by the General Trades Contractor. Section 07 21 00 Thermal Insulation cavity wall insulation behind the masonry veneer shall be provided by the Masonry Contractor. All other Section 07 21 00 Thermal Insulation shall be provided by Drywall Contractor.
15. In reference to Detail 19 / A-502 (typical), the Metal Studs, Drywall & Acoustic Ceiling Contractor is responsible for 6” cold formed metal framing, batt insulation, 5/8” glass-mat gypsum wall sheathing, 5/8” wall sheathing, 5/8” gypsum wallboard, 2x wood-preservative treated lumber, plywood faced foam insulation/sheathing (4.1”) vapor-permeable, fluid-applied membrane air

barrier and air barrier transition membrane.

16. In reference to Detail 20 / A-502 (typical), the General Trades Contractor is responsible for 2.5" thick polyisocyanurate board insulation, air / vapor barrier transition membrane and thermal break unfaced mineral wool insulation board.
17. Provide clips, anchors, supports and other accessories that interface between steel framing and steel studding.
18. Contractor shall include Type XP (or similar) mold and mildew resistant drywall for the entire project.
19. Contractor shall include galvanized metal strapping at all transitions or corners of plywood face foam insulation/sheathing. This allows for proper anchoring of metal panels mechanical fasteners at these locations.

G. BID CATEGORY NO. 7 – ALUMINUM STOREFRONT & GLAZING

General Requirements in Paragraph 3.02.B above.

Section	05 73 13	Glazed Decorative Metal Railings
Section	07 05 23	Pressure Testing an Air Barrier System for Air Tightness
Section	07 21 00	Thermal Insulation
Section	07 92 00	Joint Sealants
Section	08 16 13	Fiberglass Doors
Section	08 41 13	Aluminum-Framed Entrances and Storefronts
Section	08 56 00	Special Function Windows
Section	08 80 00	Glazing
Section	08 81 13	Decorative Glass Glazing (ADD per Add. 01)
Section	08 88 53.01	Security Glazing – Forced Entry Resistance
Section	09 84 53	Sound Barrier Mullion Trim Cap

Clarifications:

1. Contractor is responsible for shims, aluminum sill, aluminum flashing, and all interior/exterior backer rod and sealant at all window locations. This is to include "joint sealant, fill shim space with sprayed polyurethane foam sealant" as noted in Detail 19 / A-502 (typical).
2. Contractor is responsible to install all aluminum door hardware furnished by the General Trades Contractor.
3. Include all access control/electrified door hardware wiring internal to aluminum frames and doors to nearest accessible ceilings. Final connection and power supply to be provided by Electrical/Technology Contractor.
4. Contractor is responsible for interior and exterior sealant at perimeter of all aluminum frames to create sealed building envelop.
5. Contractor is expected to expedite procurement and shipping of frames and glazing at all punched openings. Punched openings to be installed with guaranteed dimensions.
6. In regards to 07 05 23 – Pressure Testing an Air Barrier System for Air Tightness, the Owner / Construction Manager is responsible for hiring and paying for CMTA service. This Contractor shall review this specification in

detail and perform Work as part of this Contract in accordance to this specification to achieve the desired test result. Costs related to rework or corrective action as part of this Contract due to failed pressure test is the responsibility of this Contractor.

7. Door lite and side lite glazing for all openings is to be provided and installed by this Contractor. (ADDED per Addendum 01.)

H. BID CATEGORY NO. 8 – FLOORING

General Requirements in Paragraph 3.02.B above.

Section	09 01 91	Moisture Resistant/Water-Proof Flooring Adhesive For Concrete Slabs
Section	09 30 00	Tiling
Section	09 65 13	Resilient Base and Accessories
Section	09 65 19	Resilient Tile Flooring
Section	09 68 13	Tile Carpeting
Section	12 48 26.01	Entrance Carpet Tile

Clarifications:

1. Include 120 hours of additional floor preparation over above requirements noted in drawings and specifications.

I. BID CATEGORY NO. 9 – PAINTING

General Requirements in Paragraph 3.02.B above.

Section	09 91 23	Interior Painting
Section	09 96 00	High-Performance Coatings
Section	9 72 16	Vinyl-Coated Fabric Wall Coverings

Clarifications:

1. Contractor to include 400 man hours by Skilled Painter for use at discretion of the Construction Manager.
2. The Painting Contractor shall be responsible for painting mechanical, electrical plumbing, and fire suppression work in MEPF rooms, and MEPF work exposed to view in interior occupied spaces, exterior walls and roof. (ADDED per Addendum 01.)

J. BID CATEGORY NO. 10 – CASEWORK

General Requirements in Paragraph 3.02.B above.

Section	06 41 13	Wood-Veneer-Faced Architectural Cabinets
Section	06 61 16	Solid Surface Fabrications
Section	12 32 16	Manufactured Plastic Laminate-Faced (Educational) Casework

Clarifications:

1. In locations where clips, sheathing, nailers, etc. are depicted outside of the wall line (finish face) to support a finish material or product, the Contractor installing the finish material or product is also responsible for all substrate materials.

2. Contractor is responsible for wood blocking / shims at base of all casework products.
3. Contractor shall install chain stops (or similar per submittal review) at every casework door opening toward an adjacent wall surface.

K. BID CATEGORY NO. 11 – FOOD SERVICE EQUIPMENT

General Requirements in Paragraph 3.02.B above.

Section	07 05 23	Pressure Testing an Air Barrier System for Air Tightness
Section	11 40 00	Food Service Equipment

Clarifications:

1. Regarding any references to "Food Service Contractor" indicated on the Contract Documents, this work is the responsibility of this bid category. (ADDED per Addendum 01.)
2. All final connections (not integral to food service equipment) shall be made by the Electrical, Mechanical, Plumbing, or Fire Suppression Contractors, as applicable. Coordinate with other trades as necessary. (ADDED per Addendum 01.)
3. Provide coordinated shop drawings that indicate all MEPF requirements and accurately reflect the actual conditions and spacing of the area. (ADDED per Addendum 01.)
4. Obtain approvals and permits and coordinate inspections and testing with governing local and state agencies in relation to this scope of work. (ADDED per Addendum 01.)
5. Equipment bases and pads shall be provided by the Contractor installing the equipment. (ADDED per Addendum 01.)

L. BID CATEGORY NO. 12 – FIRE SUPPRESSION

General Requirements in Paragraph 3.02.B above.

Section	07 05 23	Pressure Testing an Air Barrier System for Air Tightness
Section	21 05 00	Common Work Results for Fire Suppression
Section	21 10 00	Water-Based Fire Suppression Systems

Clarifications:

1. All wall blocking is to be coordinated with MEP Contractors to ensure rough-in routing is maintained.
2. In locations where clips, sheathing, nailers, etc. are depicted outside of the wall line (finish face) to support a finish material or product, the Contractor installing the finish material or product is also responsible for all substrate materials.
3. Contractor is responsible for all sleeves and seals required for their own penetrations.
4. In regards to 07 05 23 – Pressure Testing an Air Barrier System for Air Tightness, the Owner / Construction Manager is responsible for hiring and paying for CMTA service. This Contractor shall review this specification in

detail and perform Work as part of this Contract in accordance to this specification to achieve the desired test result. Costs related to rework or corrective action as part of this Contract due to failed pressure test is the responsibility of this Contractor.

5. Contractor is responsible for hauling excavation spoils created by their own Work. All spoils are to be removed from site.
6. Contractor is responsible for concrete equipment pads for their own work.
7. Contractor is responsible to provide exact locations of required sleeves to Contractor responsible for footing, foundation, or wall construction.
8. This Contractor shall be aware of the General Trades Contractor performing 18" depth with 5% spread rate of cement stabilization at all asphalt drives, parking lots, building pad and playground locations. Actual application depth and spread rate to be determined by Third Party Testing Agency. (ADDED per Addendum 01.)
9. The General Trades Contractor shall provide incoming fire protection water service up to the flange/spigot 12" above finished floor at riser. (Reference Detail 1 / FP501). (ADDED per Addendum 01.)
10. All final connections to food service equipment (not integral to food service equipment) shall be made by the Electrical, HVAC, Plumbing, or Fire Suppression Contractors, as applicable. Coordinate with other trades as necessary. Reference approved kitchen equipment shop drawings for installation. (ADDED per Addendum 01.)

M. <u>BID CATEGORY NO. 13 – PLUMBING</u>

General Requirements in Paragraph 3.02.B above.

Section	07 05 23	Pressure Testing an Air Barrier System for Air Tightness
Section	08 31 13	Access Doors and Frames
Section	22 05 00	Common Work Results for Plumbing
Section	22 05 01	Basic Plumbing Materials and Methods
Section	22 05 13	Common Motor Requirements for Plumbing Equipment
Section	22 05 19	Meters and Gages for Plumbing Piping
Section	22 05 23	General-Duty Valves for Plumbing Piping
Section	22 05 29	Hangers and Supports for Plumbing Piping and Equipment
Section	22 05 53	Identification for Plumbing Piping and Equipment
Section	22 07 00	Plumbing Insulation
Section	22 08 00	Commissioning of Plumbing Systems
Section	22 11 13	Facility Water Distribution Piping
Section	22 11 16	Domestic Water Piping
Section	22 11 19	Domestic Water Piping Specialties
Section	22 11 23	Domestic Water Pumps
Section	22 11 24	Domestic-Water Packaged Booster Pumps
Section	22 12 16	Above-Ground, Potable-Water Storage Tanks

Section	22 13 16	Sanitary, Waste, and Vent Piping System
~~Section~~	~~22 13 23~~	~~Sanitary Waste Interceptors~~ (DELETE per Add.01)
Section	22 14 13	Facility Storm Drainage Piping
Section	22 14 29	Sump Pumps
Section	22 31 00	Domestic Water Softeners
Section	22 33 00	Electric Domestic Water Heaters
Section	22 40 00	Plumbing Fixtures
Section	22 47 00	Drinking Fountains and Water Coolers

Clarifications:

1. Contractor to include all temporary patching and sealing of roof system for their roof penetrations to ensure watertight conditions during construction.
2. Contractor is responsible for roof curbs for equipment within scope of work.
3. Contractor is responsible for own equipment pads.
4. Critical long-lead equipment items are to have all submittals and shop drawings submitted for review within four weeks of Notice to Proceed. Equipment includes, but not limited to: Water Heaters, Hydronic Pumps, Water Softeners, etc.
5. All wall blocking is to be coordinated with MEP Contractors to ensure rough-in routing is maintained.
6. In locations where clips, sheathing, nailers, etc. are depicted outside of the wall line (finish face) to support a finish material or product, the Contractor installing the finish material or product is also responsible for all substrate materials.
7. Reference kitchen equipment drawings for plumbing requirements.
8. Contractor is responsible for all sleeves and seals required for their own penetrations.
9. Contractor is responsible for access doors and frames not noted on Architectural Drawings but required to access work in this contract. Install as outlined in specifications.
10. In regards to 07 05 23 – Pressure Testing an Air Barrier System for Air Tightness, the Owner / Construction Manager is responsible for hiring and paying for CMTA service. This Contractor shall review this specification in detail and perform Work as part of this Contract in accordance to this specification to achieve the desired test result. Costs related to rework or corrective action as part of this Contract due to failed pressure test is the responsibility of this Contractor.
11. Contractor is responsible for hauling excavation spoils created by their own Work. All spoils are to be removed from site.
12. Contractor is responsible to provide exact locations of required sleeves to Contractor responsible for footing, foundation, or wall construction.
13. This Contractor shall be aware of the General Trades Contractor performing 18” depth with 5% spread rate of cement stabilization at all asphalt drives, parking lots, building pad and playground locations. Actual application depth and spread rate to be determined by Third Party Testing Agency. (ADDED per Addendum 01.)
14. Unless otherwise noted, the General Trades Contractor shall provide all new water distribution piping and related components for combined, domestic

water, and services lines, storm piping, and sanitary piping (including sanitary waste interceptors), to within 5' of the building limits. The Plumbing and HVAC Contractors shall coordinate hand-off with the General Trades Contractor. (ADDED per Addendum 01.)

15. All final connections to food service equipment (not integral to food service equipment) shall be made by the Electrical, HVAC, Plumbing, or Fire Suppression Contractors, as applicable. Coordinate with other trades as necessary. Reference approved kitchen equipment shop drawings for installation. (ADDED per Addendum 01.)

N. BID CATEGORY NO. 14 – HVAC

General Requirements in Paragraph 3.02.B above.

Section	07 05 23	Pressure Testing an Air Barrier System for Air Tightness
Section	08 31 13	Access Doors and Frames
Section	23 05 00	Common Work Results for HVAC
Section	23 05 13	Common Motor Requirements for HVAC Equipment
Section	23 05 19	Meters and Gages for HVAC Piping
Section	23 05 23	General-Duty Valves for HVAC Piping
Section	23 05 29	Hangers and Supports for HVAC Piping and Equipment
Section	23 05 48	Vibration Controls for HVAC Piping and Equipment
Section	23 05 53	Identification for HVAC Piping and Equipment
Section	23 07 00	HVAC Insulation
Section	23 08 00	Commissioning of HVAC Systems
Section	23 09 00	Instrumentation and Control for HVAC
Section	23 09 93	HVAC Sequence of Operation
Section	23 21 13	Hydronic Piping
Section	23 21 16	Geothermal Loop Heat Exchanger
Section	23 21 23	Hydronic Pumps
Section	23 23 00	Refrigerant Piping
Section	23 25 00	HVAC Water Treatment
Section	23 29 23	Variable-Frequency Motor Controllers
Section	23 31 13	Metal Ducts
Section	23 33 00	Air Duct Accessories
Section	23 34 23	HVAC Power Ventilators
Section	23 37 13	Diffusers, Registers, and Grilles
Section	23 37 23	HVAC Gravity Ventilators
Section	23 73 14	Custom Indoor Air Handling Units
Section	23 81 00	Ground Source Heat Pumps
Section	23 81 23	Computer-Room Air-Conditioners
Section	23 82 39	Unit Heaters
Section	31 23 19	Dewatering

Clarifications:

1. Contractor to include all temporary patching and sealing of roof system for their roof penetrations to ensure watertight conditions during construction.
2. Contractor is responsible for roof curbs for equipment within scope of work.
3. Electrical Contractor is responsible for all in wall rough-in locations for temperature control. Low voltage wiring for temperature control is by the HVAC Contractor.
4. Contractor is responsible for own equipment pads.
5. Critical long-lead equipment items are to have all submittals and shop drawings submitted for review within four weeks of Notice to Proceed. Equipment includes, but not limited to: Chillers, AHUs, ACUs, Hydronic Pumps, VAVs, VFDs, etc.
6. All wall blocking is to be coordinated with MEP Contractors to ensure rough-in routing is maintained.
7. In locations where clips, sheathing, nailers, etc. are depicted outside of the wall line (finish face) to support a finish material or product, the Contractor installing the finish material or product is also responsible for all substrate materials.
8. Reference kitchen equipment drawings for HVAC requirements.
9. Contractor is responsible for all sleeves and seals required for their own penetrations.
10. Contractor is responsible for access doors and frames not noted on Architectural Drawings but required to access work on this contract. Install as outlined in specifications.
11. Contractor is responsible for dewatering required for excavation and drilling of the well field.
12. Contractor is responsible for access doors and frames not noted on Architectural Drawings but required to access work in this contract. Install as outlined in specifications.
13. In regards to 07 05 23 – Pressure Testing an Air Barrier System for Air Tightness, the Owner / Construction Manager is responsible for hiring and paying for CMTA service. This Contractor shall review this specification in detail and perform Work as part of this Contract in accordance to this specification to achieve the desired test result. Costs related to rework or corrective action as part of this Contract due to failed pressure test is the responsibility of this Contractor.
14. Contractor is responsible for hauling excavation spoils created by their own Work. All spoils are to be removed from site.
15. Contractor is responsible to provide exact locations of required sleeves to Contractor responsible for footing, foundation, or wall construction.
16. This Contractor shall be aware of the General Trades Contractor performing 18” depth with 5% spread rate of cement stabilization at all asphalt drives, parking lots, building pad and playground locations. Actual application depth and spread rate to be determined by Third Party Testing Agency. (ADDED per Addendum 01.)
17. Unless otherwise noted, the General Trades Contractor shall provide all new water distribution piping and related components for combined, domestic water, and services lines, storm piping, and sanitary piping (including sanitary

waste interceptors), to within 5' of the building limits. The Plumbing and HVAC Contractors shall coordinate hand-off with the General Trades Contractor. (ADDED per Addendum 01.)

18. All final connections to food service equipment (not integral to food service equipment) shall be made by the Electrical, HVAC, Plumbing, or Fire Suppression Contractors, as applicable. Coordinate with other trades as necessary. Reference approved kitchen equipment shop drawings for installation. (ADDED per Addendum 01.)

O. BID CATEGORY NO. 15 – ELECTRICAL & TECHNOLOGY

General Requirements in Paragraph 3.02.B above.

Section	01 51 10	Temporary Electricity, Lighting and Warning Systems
Section	07 05 23	Pressure Testing an Air Barrier System for Air Tightness
Section	08 31 13	Access Doors and Frames
Section	26 00 50	General Electrical Requirements
Section	26 05 05	Electrical Testing
Section	26 05 19	Low-Voltage Electrical Power Conductors and Cables
Section	26 05 26	Grounding and Bonding for Electrical Systems
Section	26 05 29	Hangers and Supports for Electrical Systems
Section	26 05 33	Conduit and Boxes for Electrical Systems
Section	26 05 37	Wire Mesh Type Cable Trays
Section	26 05 43	Underground Ducts and Raceways for Electrical Systems
Section	26 05 53	Identification for Electrical Systems
Section	26 05 73	Power System Studies
Section	26 08 00	Commissioning of Electrical Systems
Section	26 09 13	Electrical Power Monitoring
Section	26 09 23	Lighting Control Devices
Section	26 22 00	Low-Voltage Transformers
Section	26 24 13	Switchboards
Section	26 24 16	Panelboards
Section	26 27 13	Utility Electric Metering
Section	26 27 26	Wiring Devices
Section	26 28 13	Fuses
Section	26 28 16	Enclosed Switches and Circuit Breakers
Section	26 29 13	Enclosed Controllers
Section	26 31 00	Photovoltaic Collectors
Section	26 32 13	Engine Generators
Section	26 36 00	Transfer Switches
Section	26 40 02	Underground Electrical Service
Section	26 51 00	Interior Lighting
Section	26 56 00	Exterior Lighting
Section	27 01 00	Operation and Maintenance of Communications

		Systems
Section	27 01 11	Demonstration, Training and Warranty of Communications Systems
Section	27 05 00	Common Work Results for Communications
Section	27 05 26	Grounding and Bonding for Communications Systems
Section	27 05 28	Pathways for Communications Systems
Section	27 05 53	Identification for Communications Systems
Section	27 11 00	Communications Equipment Room Fittings
Section	27 11 13	Communications Entrance Protection
Section	27 13 23	Communications Fiber Optical Backbone Cabling
Section	27 15 11	Conductors and Cables for Intercom, Public Address and Mass Notification Systems
Section	27 15 17	Communications Copper Horizontal Cabling (Augmented Cat 6A)
Section	27 15 53	Misc. Communications Audio/Video Cabling
Section	27 41 12	Communications Audio-Video Mounts
Section	27 41 17	Integrated A/V Control System and Equipment (Boardroom & Safety Room)
Section	27 51 17	Classroom Sound Reinforcement Systems
Section	27 51 24	Multipurpose Audio Video Systems
Section	27 51 25	IP Based Intercommunications and Program Systems (ELC & ESC)
Section	28 05 10	Common Work Results for Electronic Safety and Security
Section	28 05 23	Conductors and Cables for Electronic Safety and Security
Section	28 31 11	Digital, Addressable Fire-Alarm System
Section	28 48 00	Emergency Responder Radio Communication System Testing
Section	28 48 10	Emergency Responder Radio Communication System Installation

Clarifications:

1. Contractor to include all temporary patching and sealing of roof system for their roof penetrations to ensure watertight conditions during construction.
2. Contractor is responsible for all in wall rough-in locations for temperature control. Low voltage wiring for temperature control is by the HVAC Contractor
3. Contractor is responsible for own equipment pads.
4. Contractor is responsible for final connection of all hard-wired equipment and furnishings, either Contractor or Owner provided.
5. All wall blocking is to be coordinated with MEP Contractors to ensure rough-in routing is maintained.
6. In locations where clips, sheathing, nailers, etc. are depicted outside of the wall line (finish face) to support a finish material or product, the Contractor installing the finish material or product is also responsible for all substrate materials.

7. Reference kitchen equipment drawings for electrical and technology requirements.
8. Contractor is responsible for all sleeves and seals required for their own penetrations.
9. Critical long-lead equipment items are to have all submittals and shop drawings submitted for review within four weeks of Notice to Proceed. Equipment includes, but not limited to: Switchgear, Generator, Transformer, etc.
10. Contractor shall not install any raceways, cabling, gear or equipment service the elevator(s) until directed by Construction Manager following approval of elevator shop drawings and pre-installation meetings.
11. Contractor is responsible for access doors and frames not noted on Architectural Drawings but required to access work in this contract. Install as outlined in specifications.
12. In regards to 07 05 23 – Pressure Testing an Air Barrier System for Air Tightness, the Owner / Construction Manager is responsible for hiring and paying for CMTA service. This Contractor shall review this specification in detail and perform Work as part of this Contract in accordance to this specification to achieve the desired test result. Costs related to rework or corrective action as part of this Contract due to failed pressure test is the responsibility of this Contractor.
13. Contractor is responsible for hauling excavation spoils created by their own Work. All spoils are to be removed from site.
14. Contractor is responsible to provide exact locations of required sleeves to Contractor responsible for footing, foundation, or wall construction.
15. Contractor is responsible for final connection of all hard-wired equipment and furnishings, either Contractor or Owner provided.
16. This Contractor shall be aware of the General Trades Contractor performing 18” depth with 5% spread rate of cement stabilization at all asphalt drives, parking lots, building pad and playground locations. Actual application depth and spread rate to be determined by Third Party Testing Agency. (ADDED per Addendum 01.)
17. All final connections to food service equipment (not integral to food service equipment) shall be made by the Electrical, HVAC, Plumbing, or Fire Suppression Contractors, as applicable. Coordinate with other trades as necessary. Reference approved kitchen equipment shop drawings for installation. (ADDED per Addendum 01.)

END OF SECTION 01 12 00

Activity Name	Original Duration	Start	Finish
ZCS ELC/ESC	529	23-Jul-25	06-Aug-27
Project Administration	529	23-Jul-25	06-Aug-27
Milestone Dates	529	23-Jul-25	06-Aug-27
Bid Date	0	23-Jul-25*	
Notice to Proceed	0	13-Aug-25*	
Mobilization	0	08-Sep-25*	
Temporary HVAC in Place	347	17-Nov-25*	19-Mar-27
Permanent Power	0		12-Jun-26*
Temporary Enclosures & Weathertight	0		07-Aug-26
Permanent Enclosures	0		11-Sep-26*
Fire Alarm & Life Safety Operational	0		22-Jan-27
Permanent HVAC Operational	0		29-Jan-27
Elevator(s) Operational	0		03-Feb-27
Building Substantial Completion	0		28-May-27
Building Punchlist & Corrections	30	31-May-27	09-Jul-27
Sitework Substantial Completion	0		25-Jun-27
Sitework Punchlist & Corrections	15	28-Jun-27	16-Jul-27
Final Completion	0		16-Jul-27
Owner Furniture & Occupancy	0		06-Aug-27
Material Procurement / Submittals	362	13-Aug-25	06-Jan-27
Submission / Review of Early Schedule Activity Items	20	13-Aug-25	10-Sep-25
Submission / Review of Critical Long Lead Submittals	45	13-Aug-25	15-Oct-25
Submission / Review of Standard Submittal Listings	120	08-Sep-25	25-Feb-26
Utility Transformer Procurement	180	15-Sep-25*	27-May-26
Main Switchboard Procurement	200	15-Sep-25*	24-Jun-26
Major HVAC Equipment Procurement	160	13-Oct-25*	27-May-26
Field Measure & Procure Select Exterior Finishes	150	11-Jun-26	06-Jan-27
Owner Activities	50	31-May-27	06-Aug-27
Classroom Furniture	50	31-May-27	06-Aug-27
Administration Furniture	50	31-May-27	06-Aug-27
ZCS ELC/ESC	467	08-Sep-25	25-Jun-27
Sitework	467	08-Sep-25	25-Jun-27
Site Easement & North	457	08-Sep-25	11-Jun-27
C.R. 700 East Construction Entrance - SW Corner	10	08-Sep-25	19-Sep-25
Temporary Construction Fencing	10	08-Sep-25	19-Sep-25
Construction Access Roads	10	22-Sep-25	03-Oct-25
Perform Mass Excavation / Site Clearing	10	06-Oct-25	17-Oct-25
Install Site Sanitary Main	10	20-Oct-25	31-Oct-25
Install Storm Sewer	10	20-Oct-25	31-Oct-25
Install Site Water Main	7	03-Nov-25	11-Nov-25
Establish Parking Lot & Drives Subgrade	10	03-Nov-25	14-Nov-25
Cement Stabilize Parking Lot & Drives	5	17-Nov-25	21-Nov-25
Install Stone / Binder Asphalt (Overpaving)	5	24-Nov-25	02-Dec-25
Install Fire Protection Loop	8	13-Jan-26	22-Jan-26
Install Concrete Curbs	15	01-Mar-27*	19-Mar-27
Install Landscaping & Furnishings	10	22-Mar-27	02-Apr-27
Install Wearing Course Asphalt	5	07-Jun-27*	11-Jun-27

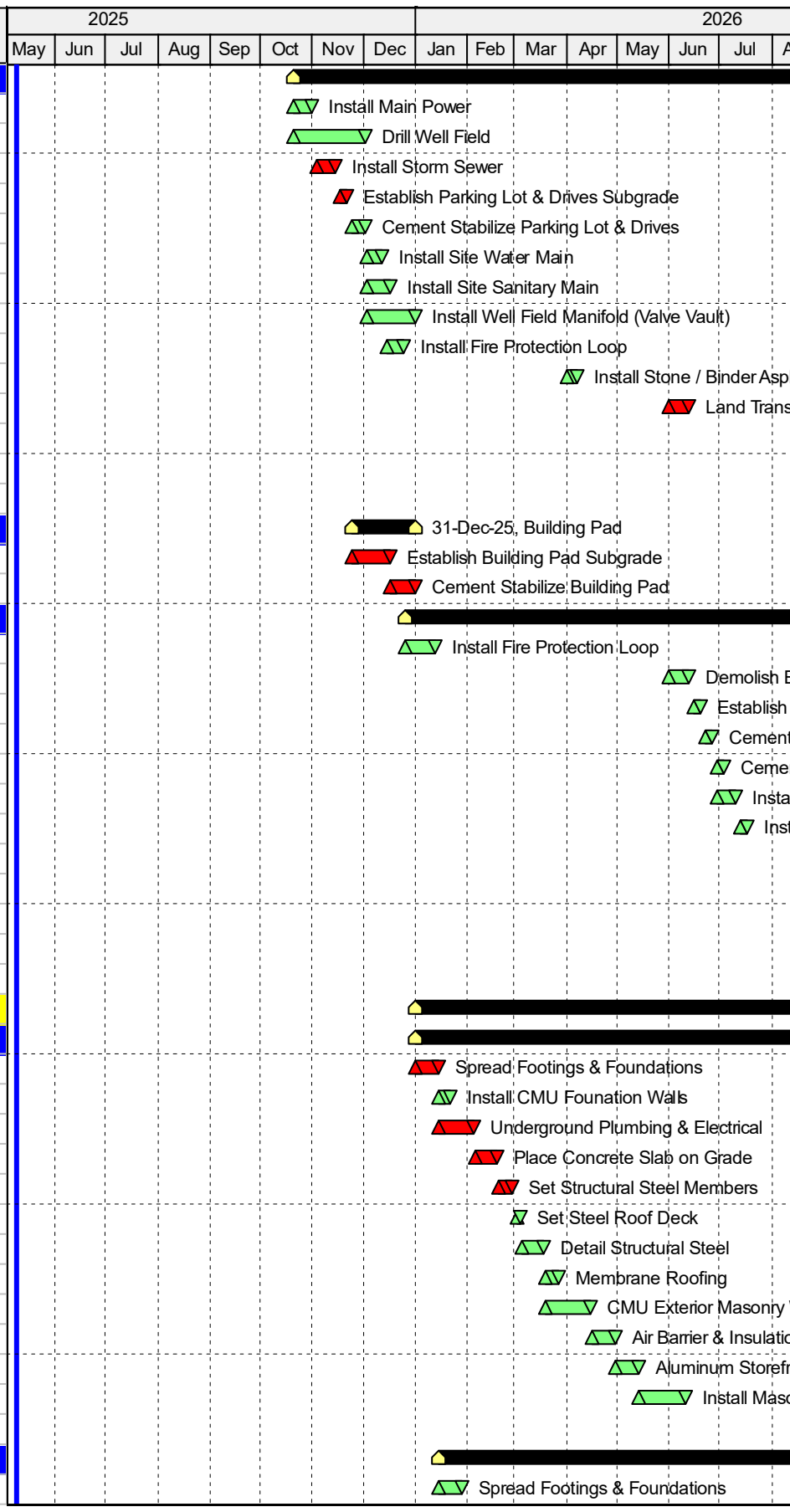


Actual Work
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Guideline Schedule

Activity Name	Original Duration	Start	Finish
Site Southwest	432	20-Oct-25	18-Jun-27
Install Main Power	10	20-Oct-25	31-Oct-25
Drill Well Field	30	20-Oct-25	02-Dec-25
Install Storm Sewer	10	03-Nov-25	14-Nov-25
Establish Parking Lot & Drives Subgrade	5	17-Nov-25	21-Nov-25
Cement Stabilize Parking Lot & Drives	5	24-Nov-25	02-Dec-25
Install Site Water Main	8	03-Dec-25	12-Dec-25
Install Site Sanitary Main	10	03-Dec-25	16-Dec-25
Install Well Field Manifold (Valve Vault)	20	03-Dec-25	31-Dec-25
Install Fire Protection Loop	8	15-Dec-25	24-Dec-25
Install Stone / Binder Asphalt (Overpaving)	5	01-Apr-26*	07-Apr-26
Land Transformer & Energize	10	01-Jun-26*	12-Jun-26
Install Concrete Curbs	15	22-Mar-27*	09-Apr-27
Install Landscaping & Furnishings	10	05-Apr-27	16-Apr-27
Install Wearing Course Asphalt	5	14-Jun-27*	18-Jun-27
Building Pad	25	24-Nov-25	31-Dec-25
Establish Building Pad Subgrade	15	24-Nov-25	16-Dec-25
Cement Stabilize Building Pad	10	17-Dec-25	31-Dec-25
Site South and East of Building	391	26-Dec-25	25-Jun-27
Install Fire Protection Loop	12	26-Dec-25	12-Jan-26
Demolish Existing Stonegate Elementary Parking Lot	10	01-Jun-26*	12-Jun-26
Establish Parking Lot & Drives Subgrade	5	15-Jun-26	19-Jun-26
Cement Stabilize Parking Lot & Drives	5	22-Jun-26	26-Jun-26
Cement Stabilize Playground Areas	5	29-Jun-26	03-Jul-26
Install Concrete Curbs	10	29-Jun-26	10-Jul-26
Install Stone / Binder Asphalt	5	13-Jul-26	17-Jul-26
Install Playground(s) Underdrains	15	15-Mar-27*	02-Apr-27
Install Playground Equipment w/ Foundations	45	05-Apr-27	04-Jun-27
Install Landscaping & Furnishings	10	19-Apr-27	30-Apr-27
Install Poured in Place Surfacing	30	10-May-27	18-Jun-27
Install Wearing Course Asphalt	5	21-Jun-27*	25-Jun-27
Building Core & Shell	355	01-Jan-26	12-May-27
Core & Shell D	280	01-Jan-26	27-Jan-27
Spread Footings & Foundations	10	01-Jan-26	14-Jan-26
Install CMU Founation Walls	5	15-Jan-26	21-Jan-26
Underground Plumbing & Electrical	15	15-Jan-26	04-Feb-26
Place Concrete Slab on Grade	10	05-Feb-26	18-Feb-26
Set Structural Steel Members	7	19-Feb-26	27-Feb-26
Set Steel Roof Deck	3	02-Mar-26	04-Mar-26
Detail Structural Steel	10	05-Mar-26	18-Mar-26
Membrane Roofing	7	19-Mar-26	27-Mar-26
CMU Exterior Masonry Walls	20	19-Mar-26	15-Apr-26
Air Barrier & Insulation	10	16-Apr-26	29-Apr-26
Aluminum Storefront & Glazing	10	30-Apr-26	13-May-26
Install Masonry Veneer	20	14-May-26	10-Jun-26
Install Metal Wall Panels	15	07-Jan-27	27-Jan-27
Core & Shell C	285	15-Jan-26	17-Feb-27
Spread Footings & Foundations	10	15-Jan-26	28-Jan-26



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Guideline Schedule

Activity Name	Original Duration	Start	Finish
Install CMU Founation Walls	5	29-Jan-26	04-Feb-26
Elevator Pit	5	29-Jan-26	04-Feb-26
Place Concrete Slab on Grade	10	05-Feb-26	18-Feb-26
Set Structural Steel Members	15	02-Mar-26	20-Mar-26
Set Steel Decking	5	23-Mar-26	27-Mar-26
Install Cold Form Framing & Sheathing	10	23-Mar-26	03-Apr-26
CMU Exterior Rated Masonry Walls	15	23-Mar-26	10-Apr-26
Detail Structural Steel	20	30-Mar-26	24-Apr-26
Install Waterproofing & Flashing	5	06-Apr-26	10-Apr-26
Aluminum Storefront & Glazing	10	06-Apr-26	17-Apr-26
Membrane Roofing	7	13-Apr-26	21-Apr-26
Install Masonry Veneer	10	13-Apr-26	24-Apr-26
Place Concrete Slab on Deck(s)	5	27-Apr-26	01-May-26
Install Elevator Car	15	29-Oct-26	18-Nov-26
Complete Elevator Pre-Inspection & Checklist	30	19-Nov-26	30-Dec-26
Perform Elevator Final Inspection	10	31-Dec-26	13-Jan-27
Install Metal Wall Panels	15	28-Jan-27	17-Feb-27
Core & Shell B	290	29-Jan-26	10-Mar-27
Spread Footings & Foundations	10	29-Jan-26	11-Feb-26
Install CMU Founation Walls	5	12-Feb-26	18-Feb-26
Place Concrete Slab on Grade	10	19-Feb-26	04-Mar-26
Set Structural Steel Members	15	23-Mar-26	10-Apr-26
Set Steel Decking	5	13-Apr-26	17-Apr-26
Install Cold Form Framing & Sheathing	10	13-Apr-26	24-Apr-26
CMU Exterior Rated Masonry Walls	15	13-Apr-26	01-May-26
Detail Structural Steel	20	20-Apr-26	15-May-26
Install Waterproofing & Flashing	5	27-Apr-26	01-May-26
Aluminum Storefront & Glazing	10	27-Apr-26	08-May-26
Membrane Roofing	7	04-May-26	12-May-26
Install Masonry Veneer	10	04-May-26	15-May-26
Place Concrete Slab on Deck(s)	5	18-May-26	22-May-26
Install Metal Wall Panels	15	18-Feb-27	10-Mar-27
Core & Shell A	295	12-Feb-26	31-Mar-27
Spread Footings & Foundations	15	12-Feb-26	04-Mar-26
Install CMU Founation Walls	5	05-Mar-26	11-Mar-26
Elevator Pit	5	05-Mar-26	11-Mar-26
Place Concrete Slab on Grade	10	12-Mar-26	25-Mar-26
Set Structural Steel Members	20	13-Apr-26	08-May-26
Set Steel Decking	8	11-May-26	20-May-26
Install Cold Form Framing & Sheathing	15	11-May-26	29-May-26
CMU Exterior Rated Masonry Walls	15	11-May-26	29-May-26
Detail Structural Steel	30	21-May-26	01-Jul-26
Membrane Roofing	7	01-Jun-26	09-Jun-26
Install Waterproofing & Flashing	8	01-Jun-26	10-Jun-26
Aluminum Storefront & Glazing	15	01-Jun-26	19-Jun-26
Install Masonry Veneer	20	11-Jun-26	08-Jul-26
Place Concrete Slab on Deck(s)	8	02-Jul-26	13-Jul-26
Install Elevator Car	15	19-Nov-26	09-Dec-26

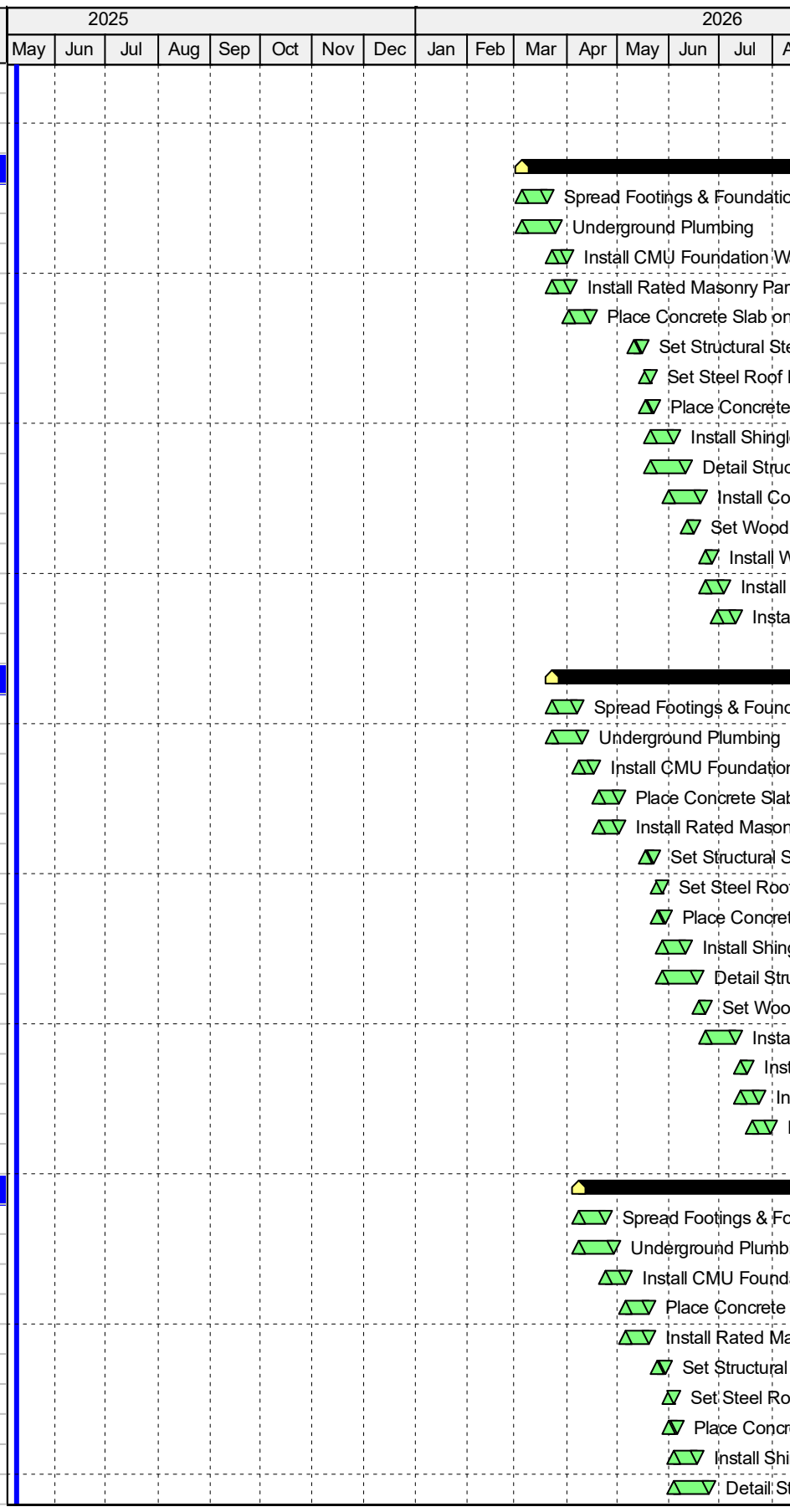


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Guideline Schedule

Activity Name	Original Duration	Start	Finish
Complete Elevator Pre-Inspection & Checklist	30	10-Dec-26	20-Jan-27
Perform Elevator Final Inspection	10	21-Jan-27	03-Feb-27
Install Metal Wall Panels	15	11-Mar-27	31-Mar-27
Core & Shell G	295	05-Mar-26	21-Apr-27
Spread Footings & Foundations	12	05-Mar-26	20-Mar-26
Underground Plumbing	15	05-Mar-26	25-Mar-26
Install CMU Foundation Walls	8	23-Mar-26	01-Apr-26
Install Rated Masonry Partition Wall & Elevator Shaft	10	23-Mar-26	03-Apr-26
Place Concrete Slab on Grade	10	02-Apr-26	15-Apr-26
Set Structural Steel Members	5	11-May-26	15-May-26
Set Steel Roof Deck	3	18-May-26	20-May-26
Place Concrete Slab on Deck(s)	5	18-May-26	22-May-26
Install Shingle Roofing	10	21-May-26	03-Jun-26
Detail Structural Steel	15	21-May-26	10-Jun-26
Install Cold Form Framing & Sheathing	15	01-Jun-26	19-Jun-26
Set Wood Laminate Structure	3	11-Jun-26	15-Jun-26
Install Waterproofing & Flashing	5	22-Jun-26	26-Jun-26
Install Exterior Windows & Kalwall	10	22-Jun-26	03-Jul-26
Install Masonry Veneer	10	29-Jun-26	10-Jul-26
Install Metal Wall Panels	15	01-Apr-27	21-Apr-27
Core & Shell F	298	23-Mar-26	12-May-27
Spread Footings & Foundations	12	23-Mar-26	07-Apr-26
Underground Plumbing	15	23-Mar-26	10-Apr-26
Install CMU Foundation Walls	8	08-Apr-26	17-Apr-26
Place Concrete Slab on Grade	10	20-Apr-26	01-May-26
Install Rated Masonry Partition Wall	10	20-Apr-26	01-May-26
Set Structural Steel Members	5	18-May-26	22-May-26
Set Steel Roof Deck	3	25-May-26	27-May-26
Place Concrete Slab on Deck(s)	5	25-May-26	29-May-26
Install Shingle Roofing	10	28-May-26	10-Jun-26
Detail Structural Steel	15	28-May-26	17-Jun-26
Set Wood Laminate Structure	3	18-Jun-26	22-Jun-26
Install Cold Form Framing & Sheathing	15	22-Jun-26	10-Jul-26
Install Waterproofing & Flashing	5	13-Jul-26	17-Jul-26
Install Exterior Windows & Kalwall	10	13-Jul-26	24-Jul-26
Install Masonry Veneer	10	20-Jul-26	31-Jul-26
Install Metal Wall Panels	15	22-Apr-27	12-May-27
Core & Shell E	108	08-Apr-26	04-Sep-26
Spread Footings & Foundations	12	08-Apr-26	23-Apr-26
Underground Plumbing	15	08-Apr-26	28-Apr-26
Install CMU Foundation Walls	8	24-Apr-26	05-May-26
Place Concrete Slab on Grade	10	06-May-26	19-May-26
Install Rated Masonry Partition Wall	10	06-May-26	19-May-26
Set Structural Steel Members	5	25-May-26	29-May-26
Set Steel Roof Deck	3	01-Jun-26	03-Jun-26
Place Concrete Slab on Deck(s)	5	01-Jun-26	05-Jun-26
Install Shingle Roofing	10	04-Jun-26	17-Jun-26
Detail Structural Steel	15	04-Jun-26	24-Jun-26



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Activity Name	Original Duration	Start	Finish
Set Wood Laminate Structure	3	25-Jun-26	29-Jun-26
Install Cold Form Framing & Sheathing	15	13-Jul-26	31-Jul-26
Install Waterproofing & Flashing	5	03-Aug-26	07-Aug-26
Install Exterior Windows & Kalwall	10	03-Aug-26	14-Aug-26
Install Masonry Veneer	10	10-Aug-26	21-Aug-26
Install Metal Wall Panels	10	24-Aug-26	04-Sep-26
Interior Buildout	352	22-Jan-26	28-May-27
Building Unit D	303	22-Jan-26	22-Mar-27
Install Masonry Walls (Unit D)	20	22-Jan-26	18-Feb-26
Install HM Door Frames	5	29-Jan-26	04-Feb-26
Install Electrical Rough-Ins	40	29-Jan-26	25-Mar-26
Install Metal Stud Framing	10	19-Feb-26	04-Mar-26
Install Low Voltage & FA Rough-In	40	19-Feb-26	15-Apr-26
Install Ductwork & HVAC Rough-In	40	05-Mar-26	29-Apr-26
Install Electrical & Data Wall Boxes	25	12-Mar-26	15-Apr-26
Install Panelboards	15	30-Mar-26	17-Apr-26
Install Duct & Pipe Insulation	20	16-Apr-26	13-May-26
Pull Low-Voltage & Data Cabling	30	16-Apr-26	27-May-26
Pull Power Cabling	30	20-Apr-26	29-May-26
Install HVAC Controls	20	30-Apr-26	27-May-26
Set Kitchen Equipment	15	15-Jun-26	03-Jul-26
Install Main Switchboard	10	25-Jun-26	08-Jul-26
Terminate Cabling at Electrical Gear	10	09-Jul-26	22-Jul-26
Hang & Finish Drywall	10	20-Jul-26*	31-Jul-26
Prime & First Coat Paint	10	03-Aug-26	14-Aug-26
Install Ceiling Grid	10	17-Aug-26	28-Aug-26
Install RGD's	5	31-Aug-26	04-Sep-26
Install Lighting	10	31-Aug-26	11-Sep-26
Install Casework & Countertops	10	07-Sep-26	18-Sep-26
Install Fluid Applied Flooring	5	14-Sep-26	18-Sep-26
Install Plumbing Fixtures	5	21-Sep-26	25-Sep-26
Install Softgood Flooring	10	21-Sep-26	02-Oct-26
Install Restroom Bars, Mirrors & Equipment	5	28-Sep-26	02-Oct-26
Drop Ceiling Pads	8	01-Mar-27*	10-Mar-27
Install Door Slabs & Hardware	8	11-Mar-27	22-Mar-27
Final Coat Paint	8	11-Mar-27	22-Mar-27
Building Unit B & C - 1st Floor	268	27-Apr-26	05-May-27
Install HM Door Frames	10	27-Apr-26	08-May-26
Install Metal Stud Framing	20	27-Apr-26	22-May-26
Install Electrical Rough-Ins	30	27-Apr-26	05-Jun-26
Install Low Voltage & FA Rough-In	30	18-May-26	26-Jun-26
Install Ductwork & HVAC Rough-In	30	25-May-26	03-Jul-26
Install Electrical & Data Wall Boxes	20	08-Jun-26	03-Jul-26
Pull Low-Voltage & Data Cabling	20	29-Jun-26	24-Jul-26
Install Duct & Pipe Insulation	20	06-Jul-26	31-Jul-26
Install HVAC Controls	20	06-Jul-26	31-Jul-26
Pull Power Cabling	20	03-Aug-26	28-Aug-26
Hang & Finish Drywall	20	11-Jan-27	05-Feb-27

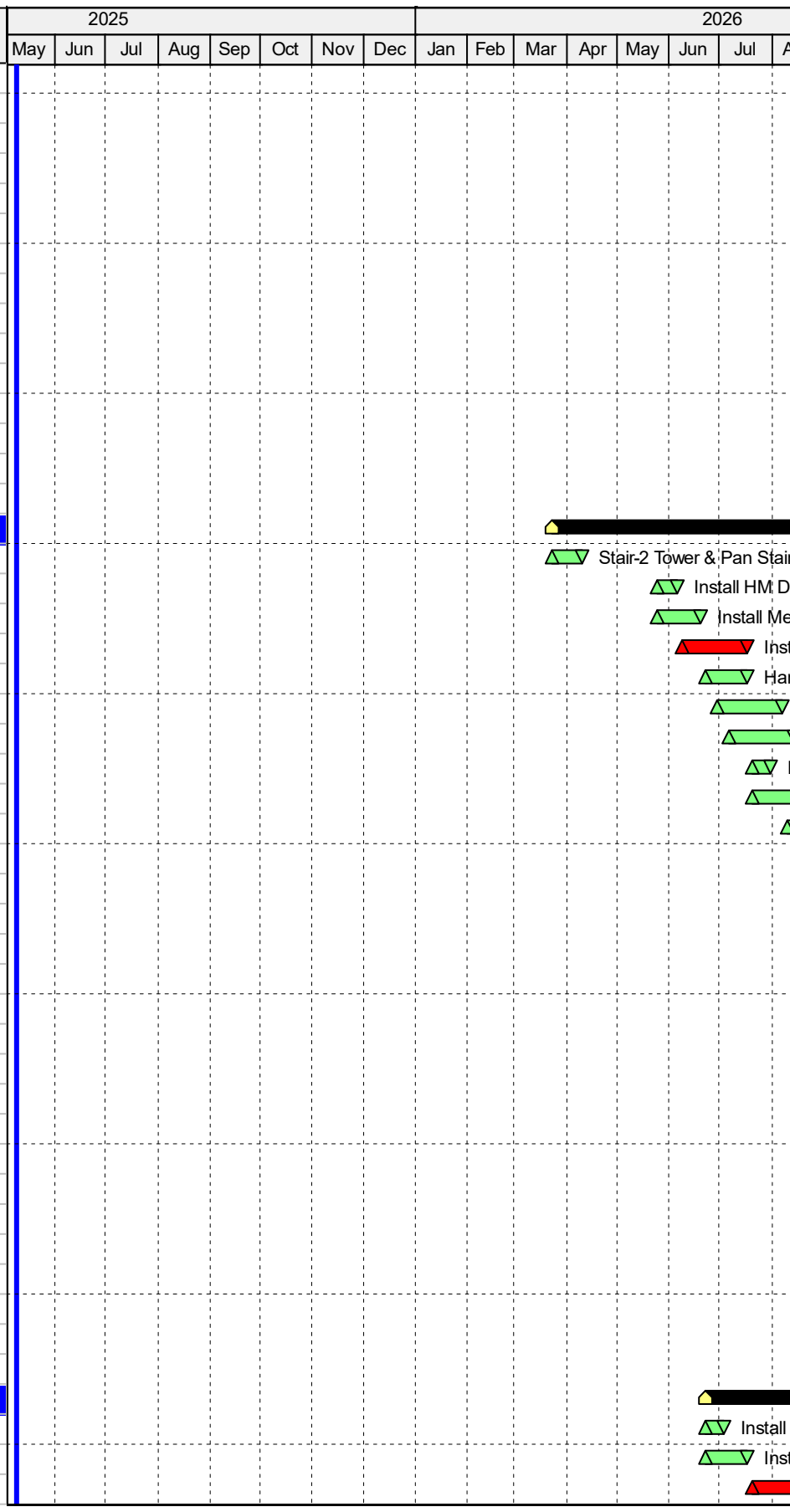


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Activity Name	Original Duration	Start	Finish
Install Aluminum Storefront & Glazing	5	08-Feb-27	12-Feb-27
Prime & First Coat Paint	10	08-Feb-27	19-Feb-27
Install Ceiling Grid	10	22-Feb-27	05-Mar-27
Install RGD's	5	08-Mar-27	12-Mar-27
Install Lighting	10	08-Mar-27	19-Mar-27
Install Casework & Countertops	10	15-Mar-27	26-Mar-27
Install Fluid Applied Flooring	10	22-Mar-27	02-Apr-27
Install Div. 10 & 11 Classroom Equipment	5	29-Mar-27	02-Apr-27
Install Markerboards & Tackboards	5	29-Mar-27	02-Apr-27
Install Softgood Flooring	10	29-Mar-27	09-Apr-27
Install Plumbing Fixtures	5	05-Apr-27	09-Apr-27
Install Restroom Bars, Mirrors & Equipment	5	12-Apr-27	16-Apr-27
Drop Ceiling Pads	8	14-Apr-27	23-Apr-27
Install Door Slabs & Hardware	8	26-Apr-27	05-May-27
Final Coat Paint	8	26-Apr-27	05-May-27
Building Unit G	269	23-Mar-26	01-Apr-27
Stair-2 Tower & Pan Stairs	15	23-Mar-26	10-Apr-26
Install HM Door Frames	10	25-May-26	05-Jun-26
Install Metal Stud Framing	20	25-May-26	19-Jun-26
Install Electrical Rough-Ins	30	08-Jun-26	17-Jul-26
Hang & Finish Drywall	20	22-Jun-26	17-Jul-26
Install Low Voltage & FA Rough-In	30	29-Jun-26	07-Aug-26
Install Ductwork & HVAC Rough-In	30	06-Jul-26	14-Aug-26
Install Aluminum Storefront & Glazing	10	20-Jul-26	31-Jul-26
Install Electrical & Data Wall Boxes	25	20-Jul-26	21-Aug-26
Pull Low-Voltage & Data Cabling	30	10-Aug-26	18-Sep-26
Install Duct & Pipe Insulation	20	17-Aug-26	11-Sep-26
Install HVAC Controls	20	17-Aug-26	11-Sep-26
Prime & First Coat Paint	15	24-Aug-26	11-Sep-26
Pull Power Cabling	20	24-Aug-26	18-Sep-26
Install Ceiling Grid	10	14-Sep-26	25-Sep-26
Install RGD's	5	28-Sep-26	02-Oct-26
Install Lighting	10	28-Sep-26	09-Oct-26
Install Casework & Countertops	15	05-Oct-26	23-Oct-26
Install Fluid Applied Flooring	10	12-Oct-26	23-Oct-26
Install Plumbing Fixtures	5	26-Oct-26	30-Oct-26
Install Div. 10 & 11 Classroom Equipment	10	26-Oct-26	06-Nov-26
Install Markerboards & Tackboards	10	26-Oct-26	06-Nov-26
Install Softgood Flooring	15	26-Oct-26	13-Nov-26
Install Restroom Partitions	10	02-Nov-26	13-Nov-26
Install Restroom Bars, Mirrors & Equipment	5	16-Nov-26	20-Nov-26
Drop Ceiling Pads	8	11-Mar-27	22-Mar-27
Install Door Slabs & Hardware	8	23-Mar-27	01-Apr-27
Final Coat Paint	8	23-Mar-27	01-Apr-27
Building Unit F	212	22-Jun-26	13-Apr-27
Install HM Door Frames	10	22-Jun-26	03-Jul-26
Install Metal Stud Framing	20	22-Jun-26	17-Jul-26
Install Electrical Rough-Ins	30	20-Jul-26	28-Aug-26

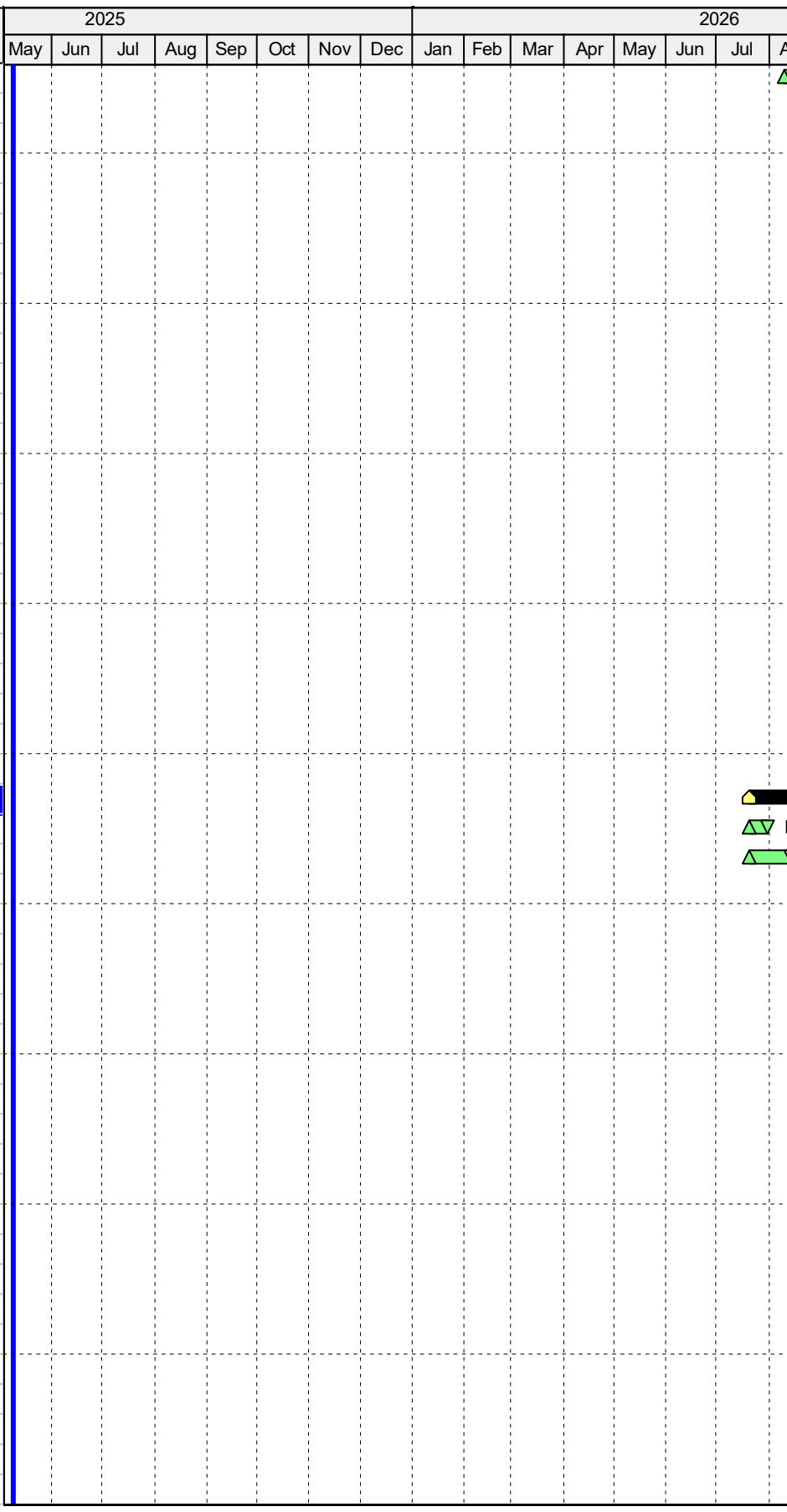


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Activity Name	Original Duration	Start	Finish
Install Low Voltage & FA Rough-In	30	10-Aug-26	18-Sep-26
Hang & Finish Drywall	20	17-Aug-26	11-Sep-26
Install Ductwork & HVAC Rough-In	30	17-Aug-26	25-Sep-26
Install Electrical & Data Wall Boxes	25	31-Aug-26	02-Oct-26
Install Aluminum Storefront & Glazing	10	14-Sep-26	25-Sep-26
Pull Low-Voltage & Data Cabling	30	21-Sep-26	30-Oct-26
Install Duct & Pipe Insulation	20	28-Sep-26	23-Oct-26
Install HVAC Controls	20	28-Sep-26	23-Oct-26
Prime & First Coat Paint	15	05-Oct-26	23-Oct-26
Pull Power Cabling	20	05-Oct-26	30-Oct-26
Install Ceiling Grid	10	26-Oct-26	06-Nov-26
Install RGD's	5	09-Nov-26	13-Nov-26
Install Lighting	10	09-Nov-26	20-Nov-26
Install Casework & Countertops	15	16-Nov-26	04-Dec-26
Install Fluid Applied Flooring	10	23-Nov-26	04-Dec-26
Install Plumbing Fixtures	5	07-Dec-26	11-Dec-26
Install Div. 10 & 11 Classroom Equipment	10	07-Dec-26	18-Dec-26
Install Markerboards & Tackboards	10	07-Dec-26	18-Dec-26
Install Softgood Flooring	15	07-Dec-26	25-Dec-26
Install Restroom Partitions	10	14-Dec-26	25-Dec-26
Install Restroom Bars, Mirrors & Equipment	5	28-Dec-26	01-Jan-27
Drop Ceiling Pads	8	23-Mar-27	01-Apr-27
Install Door Slabs & Hardware	8	02-Apr-27	13-Apr-27
Final Coat Paint	8	02-Apr-27	13-Apr-27
Building Unit E	200	20-Jul-26	23-Apr-27
Install HM Door Frames	10	20-Jul-26	31-Jul-26
Install Metal Stud Framing	20	20-Jul-26	14-Aug-26
Install Electrical Rough-Ins	30	31-Aug-26	09-Oct-26
Hang & Finish Drywall	20	14-Sep-26	09-Oct-26
Install Low Voltage & FA Rough-In	30	21-Sep-26	30-Oct-26
Install Ductwork & HVAC Rough-In	30	28-Sep-26	06-Nov-26
Install Aluminum Storefront & Glazing	10	12-Oct-26	23-Oct-26
Install Electrical & Data Wall Boxes	25	12-Oct-26	13-Nov-26
Pull Low-Voltage & Data Cabling	30	02-Nov-26	11-Dec-26
Install Duct & Pipe Insulation	20	09-Nov-26	04-Dec-26
Install HVAC Controls	20	09-Nov-26	04-Dec-26
Prime & First Coat Paint	15	16-Nov-26	04-Dec-26
Pull Power Cabling	20	16-Nov-26	11-Dec-26
Install Ceiling Grid	10	07-Dec-26	18-Dec-26
Install RGD's	5	21-Dec-26	25-Dec-26
Install Lighting	10	21-Dec-26	01-Jan-27
Install Casework & Countertops	15	28-Dec-26	15-Jan-27
Install Fluid Applied Flooring	10	04-Jan-27	15-Jan-27
Install Plumbing Fixtures	5	18-Jan-27	22-Jan-27
Install Div. 10 & 11 Classroom Equipment	10	18-Jan-27	29-Jan-27
Install Markerboards & Tackboards	10	18-Jan-27	29-Jan-27
Install Softgood Flooring	15	18-Jan-27	05-Feb-27
Install Restroom Partitions	10	25-Jan-27	05-Feb-27

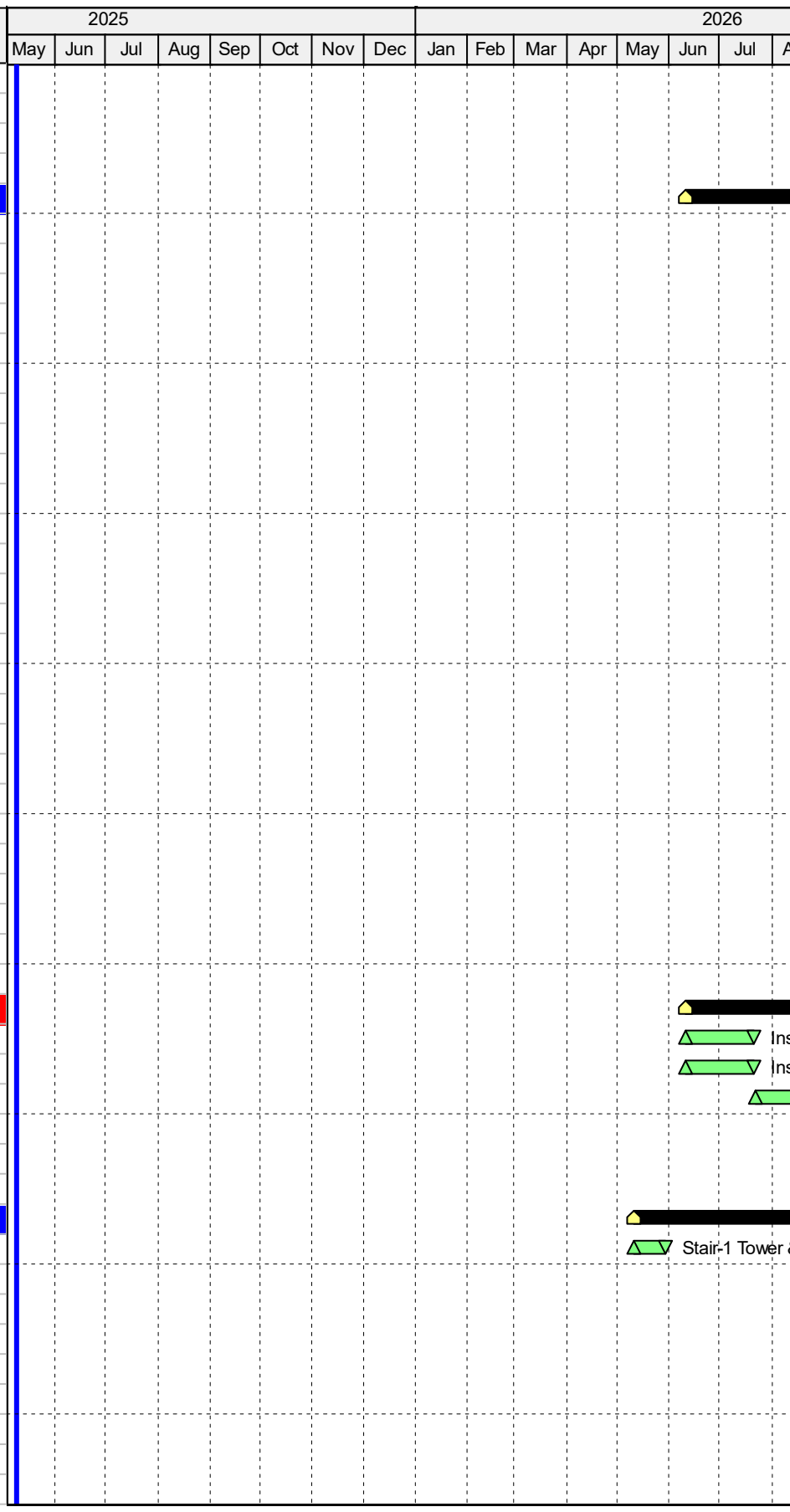


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Guideline Schedule

Activity Name	Original Duration	Start	Finish
Install Restroom Bars, Mirrors & Equipment	5	08-Feb-27	12-Feb-27
Drop Ceiling Pads	8	02-Apr-27	13-Apr-27
Install Door Slabs & Hardware	8	14-Apr-27	23-Apr-27
Final Coat Paint	8	14-Apr-27	23-Apr-27
Building Unit A, B & C - 2nd Floor	248	10-Jun-26	21-May-27
Install HM Door Frames	15	17-Aug-26	04-Sep-26
Install Metal Stud Framing	20	17-Aug-26	11-Sep-26
Install Electrical Rough-Ins	30	12-Oct-26	20-Nov-26
Hang & Finish Drywall	30	02-Nov-26	11-Dec-26
Install Low Voltage & FA Rough-In	30	02-Nov-26	11-Dec-26
Install Ductwork & HVAC Rough-In	30	09-Nov-26	18-Dec-26
Install Electrical & Data Wall Boxes	25	23-Nov-26	25-Dec-26
Pull Low-Voltage & Data Cabling	30	14-Dec-26	22-Jan-27
Install Duct & Pipe Insulation	20	21-Dec-26	15-Jan-27
Install HVAC Controls	20	21-Dec-26	15-Jan-27
Prime & First Coat Paint	20	28-Dec-26	22-Jan-27
Pull Power Cabling	20	28-Dec-26	22-Jan-27
Install Ceiling Grid	15	25-Jan-27	12-Feb-27
Install Lighting	10	15-Feb-27	26-Feb-27
Install RGD's	15	15-Feb-27	05-Mar-27
Install Fluid Applied Flooring	15	01-Mar-27	19-Mar-27
Install Casework & Countertops	20	08-Mar-27	02-Apr-27
Install Plumbing Fixtures	10	22-Mar-27	02-Apr-27
Install Div. 10 & 11 Classroom Equipment	10	05-Apr-27	16-Apr-27
Install Markerboards & Tackboards	10	05-Apr-27	16-Apr-27
Install Restroom Partitions	10	05-Apr-27	16-Apr-27
Install Softgood Flooring	20	05-Apr-27	30-Apr-27
Install Door Slabs & Hardware	10	19-Apr-27	30-Apr-27
Install Restroom Bars, Mirrors & Equipment	10	19-Apr-27	30-Apr-27
Final Coat Paint	20	19-Apr-27	14-May-27
Drop Ceiling Pads	15	03-May-27	21-May-27
Mechanical Rooms	135	10-Jun-26	15-Dec-26
Install Panelboards & Transformers (Seq. C, B, A Mech. I	30	10-Jun-26	21-Jul-26
Install Plumbing Equipment (Seq. C, B, A Mech. Rms.)	30	10-Jun-26	21-Jul-26
Install HVAC Equipment (Seq. C, B, A Mech. Rms.)	30	22-Jul-26	01-Sep-26
Terminate Cabling & Electrify Equipment (Seq. C, B, A M	30	02-Sep-26	13-Oct-26
Terminate Ductwork at Equipment (Seq. C, B, A Mech. R	30	14-Oct-26	24-Nov-26
Terminate HVAC Branch Lines at Equipment (Seq. C, B,	45	14-Oct-26	15-Dec-26
Building Unit A - 1st Floor	275	11-May-26	28-May-27
Stair-1 Tower & Pan Stairs	15	11-May-26	29-May-26
Install HM Door Frames	5	14-Sep-26	18-Sep-26
Install Metal Stud Framing	15	14-Sep-26	02-Oct-26
Install Electrical Rough-Ins	30	23-Nov-26	01-Jan-27
Hang & Finish Drywall	20	14-Dec-26	08-Jan-27
Install Low Voltage & FA Rough-In	30	14-Dec-26	22-Jan-27
Install Ductwork & HVAC Rough-In	30	21-Dec-26	29-Jan-27
Install Electrical & Data Wall Boxes	25	04-Jan-27	05-Feb-27
Install Aluminum Storefront & Glazing	10	11-Jan-27	22-Jan-27

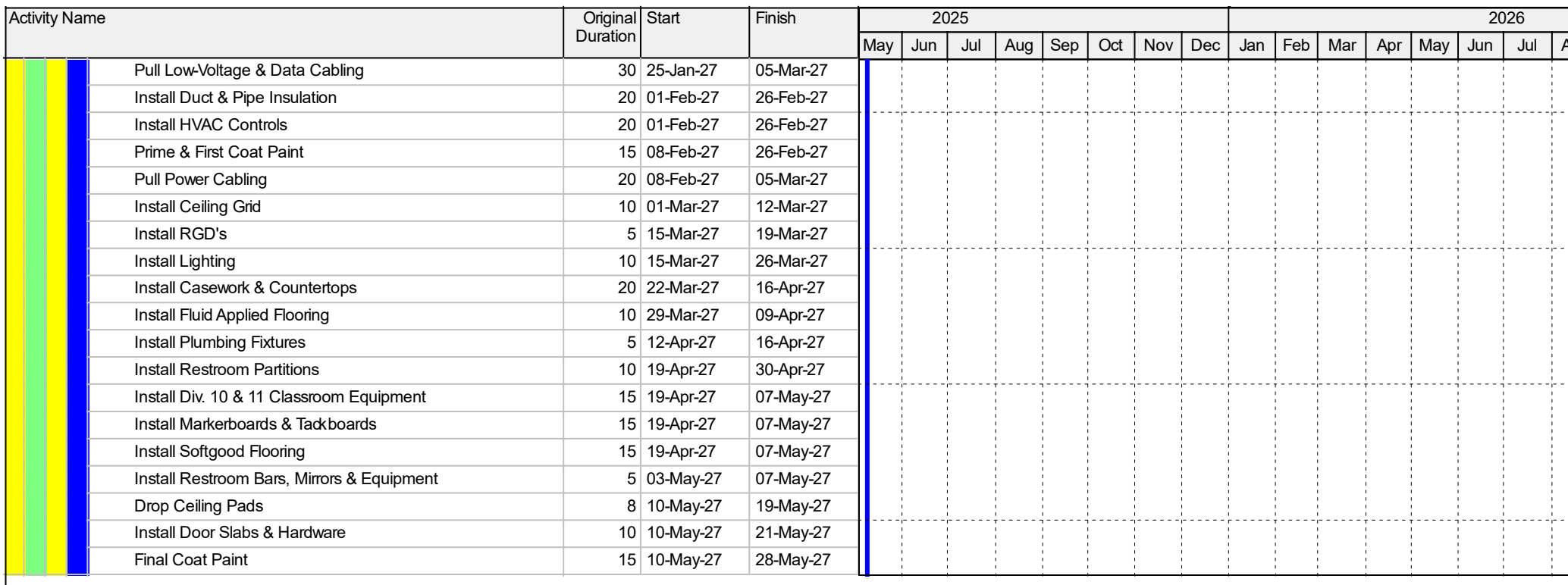


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Guideline Schedule

Activity Name	Original Duration	Start	Finish
Pull Low-Voltage & Data Cabling	30	25-Jan-27	05-Mar-27
Install Duct & Pipe Insulation	20	01-Feb-27	26-Feb-27
Install HVAC Controls	20	01-Feb-27	26-Feb-27
Prime & First Coat Paint	15	08-Feb-27	26-Feb-27
Pull Power Cabling	20	08-Feb-27	05-Mar-27
Install Ceiling Grid	10	01-Mar-27	12-Mar-27
Install RGD's	5	15-Mar-27	19-Mar-27
Install Lighting	10	15-Mar-27	26-Mar-27
Install Casework & Countertops	20	22-Mar-27	16-Apr-27
Install Fluid Applied Flooring	10	29-Mar-27	09-Apr-27
Install Plumbing Fixtures	5	12-Apr-27	16-Apr-27
Install Restroom Partitions	10	19-Apr-27	30-Apr-27
Install Div. 10 & 11 Classroom Equipment	15	19-Apr-27	07-May-27
Install Markerboards & Tackboards	15	19-Apr-27	07-May-27
Install Softgood Flooring	15	19-Apr-27	07-May-27
Install Restroom Bars, Mirrors & Equipment	5	03-May-27	07-May-27
Drop Ceiling Pads	8	10-May-27	19-May-27
Install Door Slabs & Hardware	10	10-May-27	21-May-27
Final Coat Paint	15	10-May-27	28-May-27

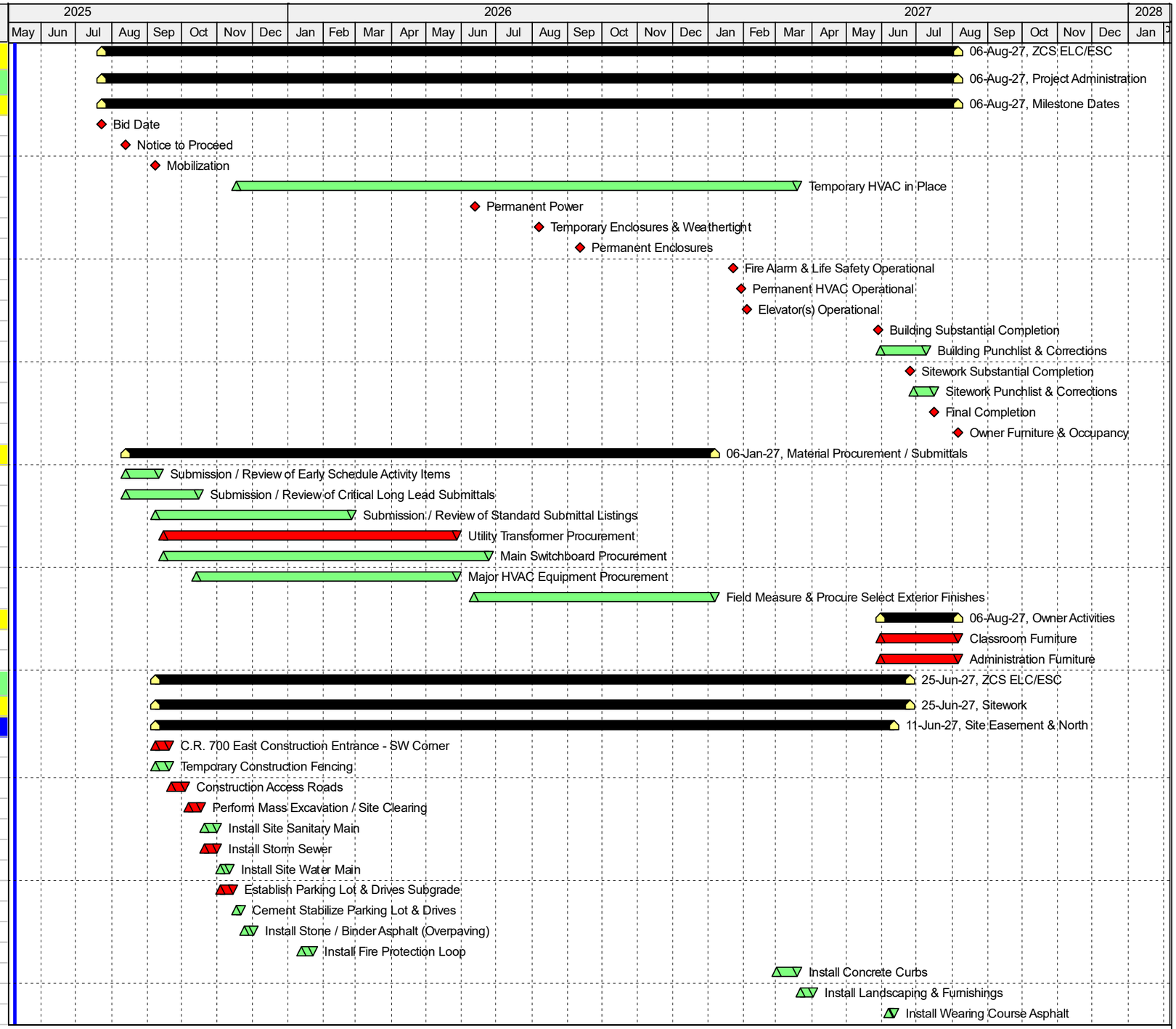


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Guideline Schedule

Activity Name	Original Duration	Start	Finish
ZCS ELC/ESC	529	23-Jul-25	06-Aug-27
Project Administration	529	23-Jul-25	06-Aug-27
Milestone Dates	529	23-Jul-25	06-Aug-27
Bid Date	0	23-Jul-25*	
Notice to Proceed	0	13-Aug-25*	
Mobilization	0	08-Sep-25*	
Temporary HVAC in Place	347	17-Nov-25*	19-Mar-27
Permanent Power	0		12-Jun-26*
Temporary Enclosures & Weathertight	0		07-Aug-26
Permanent Enclosures	0		11-Sep-26*
Fire Alarm & Life Safety Operational	0		22-Jan-27
Permanent HVAC Operational	0		29-Jan-27
Elevator(s) Operational	0		03-Feb-27
Building Substantial Completion	0		28-May-27
Building Punchlist & Corrections	30	31-May-27	09-Jul-27
Sitework Substantial Completion	0		25-Jun-27
Sitework Punchlist & Corrections	15	28-Jun-27	16-Jul-27
Final Completion	0		16-Jul-27
Owner Furniture & Occupancy	0		06-Aug-27
Material Procurement / Submittals	362	13-Aug-25	06-Jan-27
Submission / Review of Early Schedule Activity Items	20	13-Aug-25	10-Sep-25
Submission / Review of Critical Long Lead Submittals	45	13-Aug-25	15-Oct-25
Submission / Review of Standard Submittal Listings	120	08-Sep-25	25-Feb-26
Utility Transformer Procurement	180	15-Sep-25*	27-May-26
Main Switchboard Procurement	200	15-Sep-25*	24-Jun-26
Major HVAC Equipment Procurement	160	13-Oct-25*	27-May-26
Field Measure & Procure Select Exterior Finishes	150	11-Jun-26	06-Jan-27
Owner Activities	50	31-May-27	06-Aug-27
Classroom Furniture	50	31-May-27	06-Aug-27
Administration Furniture	50	31-May-27	06-Aug-27
ZCS ELC/ESC	467	08-Sep-25	25-Jun-27
Sitework	467	08-Sep-25	25-Jun-27
Site Easement & North	457	08-Sep-25	11-Jun-27
C.R. 700 East Construction Entrance - SW Corner	10	08-Sep-25	19-Sep-25
Temporary Construction Fencing	10	08-Sep-25	19-Sep-25
Construction Access Roads	10	22-Sep-25	03-Oct-25
Perform Mass Excavation / Site Clearing	10	06-Oct-25	17-Oct-25
Install Site Sanitary Main	10	20-Oct-25	31-Oct-25
Install Storm Sewer	10	20-Oct-25	31-Oct-25
Install Site Water Main	7	03-Nov-25	11-Nov-25
Establish Parking Lot & Drives Subgrade	10	03-Nov-25	14-Nov-25
Cement Stabilize Parking Lot & Drives	5	17-Nov-25	21-Nov-25
Install Stone / Binder Asphalt (Overpaving)	5	24-Nov-25	02-Dec-25
Install Fire Protection Loop	8	13-Jan-26	22-Jan-26
Install Concrete Curbs	15	01-Mar-27*	19-Mar-27
Install Landscaping & Furnishings	10	22-Mar-27	02-Apr-27
Install Wearing Course Asphalt	5	07-Jun-27*	11-Jun-27

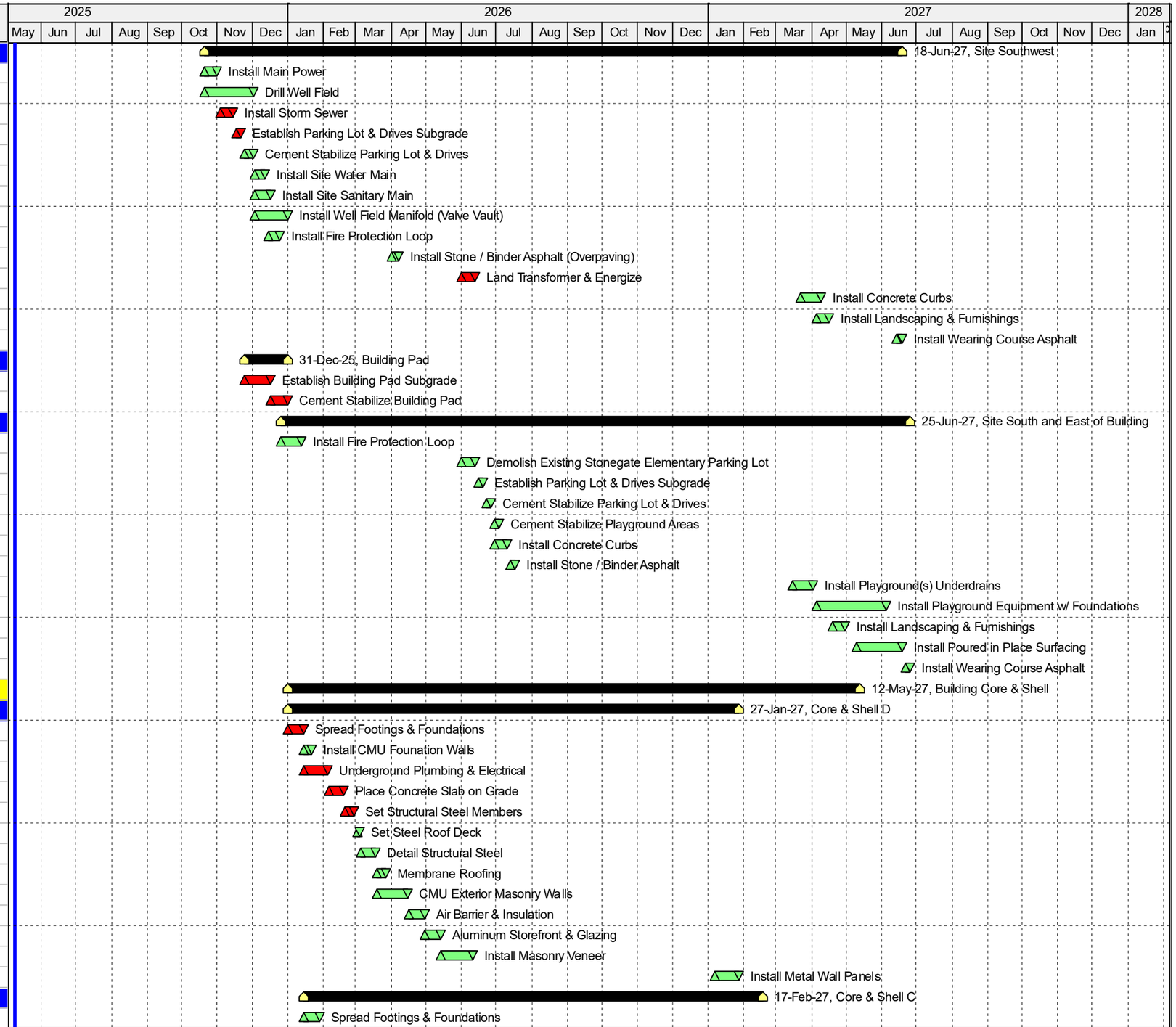


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Guideline Schedule

Activity Name	Original Duration	Start	Finish
Site Southwest	432	20-Oct-25	18-Jun-27
Install Main Power	10	20-Oct-25	31-Oct-25
Drill Well Field	30	20-Oct-25	02-Dec-25
Install Storm Sewer	10	03-Nov-25	14-Nov-25
Establish Parking Lot & Drives Subgrade	5	17-Nov-25	21-Nov-25
Cement Stabilize Parking Lot & Drives	5	24-Nov-25	02-Dec-25
Install Site Water Main	8	03-Dec-25	12-Dec-25
Install Site Sanitary Main	10	03-Dec-25	16-Dec-25
Install Well Field Manifold (Valve Vault)	20	03-Dec-25	31-Dec-25
Install Fire Protection Loop	8	15-Dec-25	24-Dec-25
Install Stone / Binder Asphalt (Overpaving)	5	01-Apr-26*	07-Apr-26
Land Transformer & Energize	10	01-Jun-26*	12-Jun-26
Install Concrete Curbs	15	22-Mar-27*	09-Apr-27
Install Landscaping & Furnishings	10	05-Apr-27	16-Apr-27
Install Wearing Course Asphalt	5	14-Jun-27*	18-Jun-27
Building Pad	25	24-Nov-25	31-Dec-25
Establish Building Pad Subgrade	15	24-Nov-25	16-Dec-25
Cement Stabilize Building Pad	10	17-Dec-25	31-Dec-25
Site South and East of Building	391	26-Dec-25	25-Jun-27
Install Fire Protection Loop	12	26-Dec-25	12-Jan-26
Demolish Existing Stonegate Elementary Parking Lot	10	01-Jun-26*	12-Jun-26
Establish Parking Lot & Drives Subgrade	5	15-Jun-26	19-Jun-26
Cement Stabilize Parking Lot & Drives	5	22-Jun-26	26-Jun-26
Cement Stabilize Playground Areas	5	29-Jun-26	03-Jul-26
Install Concrete Curbs	10	29-Jun-26	10-Jul-26
Install Stone / Binder Asphalt	5	13-Jul-26	17-Jul-26
Install Playground(s) Underdrains	15	15-Mar-27*	02-Apr-27
Install Playground Equipment w/ Foundations	45	05-Apr-27	04-Jun-27
Install Landscaping & Furnishings	10	19-Apr-27	30-Apr-27
Install Poured in Place Surfacing	30	10-May-27	18-Jun-27
Install Wearing Course Asphalt	5	21-Jun-27*	25-Jun-27
Building Core & Shell	355	01-Jan-26	12-May-27
Core & Shell D	280	01-Jan-26	27-Jan-27
Spread Footings & Foundations	10	01-Jan-26	14-Jan-26
Install CMU Founation Walls	5	15-Jan-26	21-Jan-26
Underground Plumbing & Electrical	15	15-Jan-26	04-Feb-26
Place Concrete Slab on Grade	10	05-Feb-26	18-Feb-26
Set Structural Steel Members	7	19-Feb-26	27-Feb-26
Set Steel Roof Deck	3	02-Mar-26	04-Mar-26
Detail Structural Steel	10	05-Mar-26	18-Mar-26
Membrane Roofing	7	19-Mar-26	27-Mar-26
CMU Exterior Masonry Walls	20	19-Mar-26	15-Apr-26
Air Barrier & Insulation	10	16-Apr-26	29-Apr-26
Aluminum Storefront & Glazing	10	30-Apr-26	13-May-26
Install Masonry Veneer	20	14-May-26	10-Jun-26
Install Metal Wall Panels	15	07-Jan-27	27-Jan-27
Core & Shell C	285	15-Jan-26	17-Feb-27
Spread Footings & Foundations	10	15-Jan-26	28-Jan-26

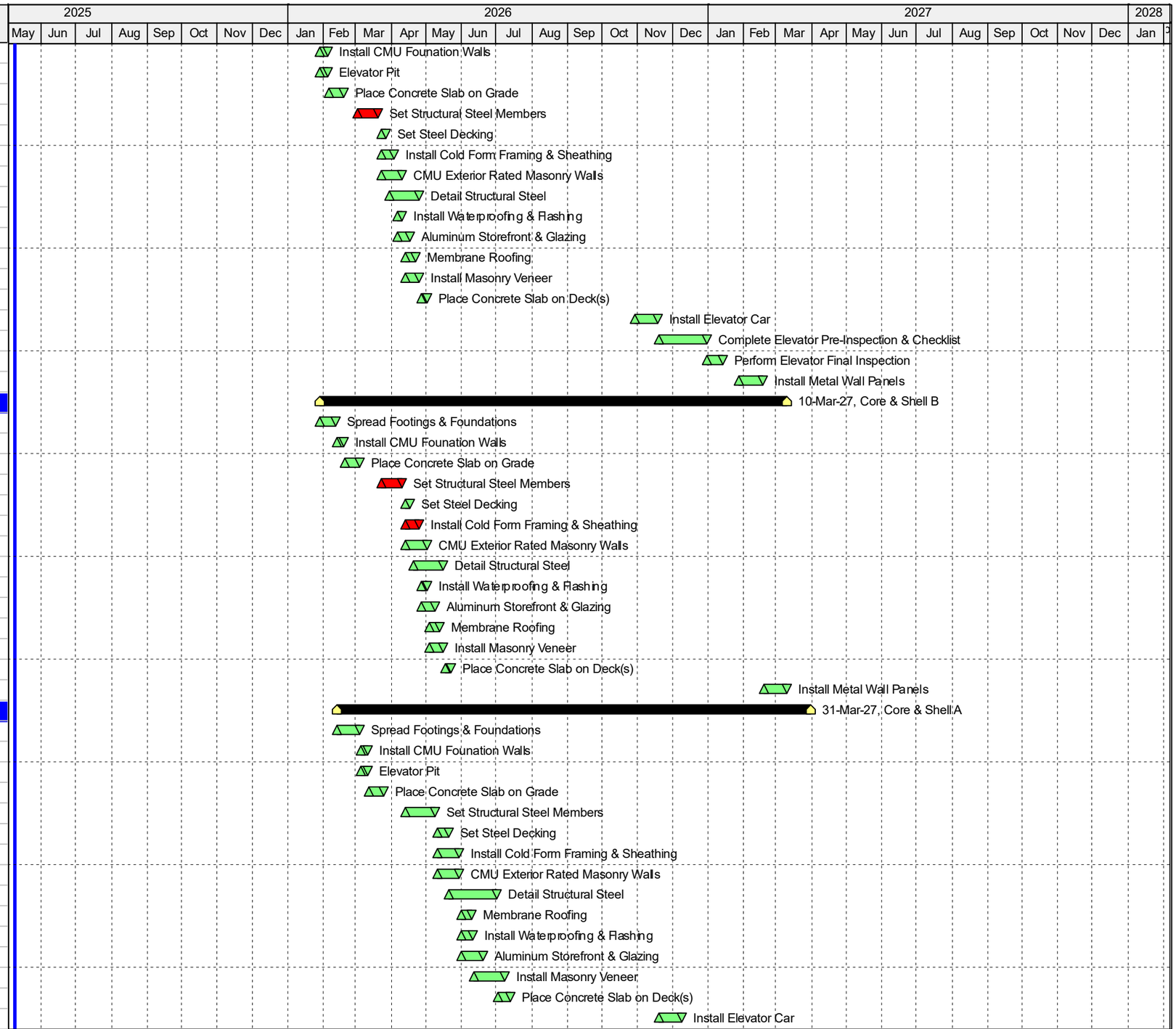


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Activity Name	Original Duration	Start	Finish
Install CMU Founation Walls	5	29-Jan-26	04-Feb-26
Elevator Pit	5	29-Jan-26	04-Feb-26
Place Concrete Slab on Grade	10	05-Feb-26	18-Feb-26
Set Structural Steel Members	15	02-Mar-26	20-Mar-26
Set Steel Decking	5	23-Mar-26	27-Mar-26
Install Cold Form Framing & Sheathing	10	23-Mar-26	03-Apr-26
CMU Exterior Rated Masonry Walls	15	23-Mar-26	10-Apr-26
Detail Structural Steel	20	30-Mar-26	24-Apr-26
Install Waterproofing & Flashing	5	06-Apr-26	10-Apr-26
Aluminum Storefront & Glazing	10	06-Apr-26	17-Apr-26
Membrane Roofing	7	13-Apr-26	21-Apr-26
Install Masonry Veneer	10	13-Apr-26	24-Apr-26
Place Concrete Slab on Deck(s)	5	27-Apr-26	01-May-26
Install Elevator Car	15	29-Oct-26	18-Nov-26
Complete Elevator Pre-Inspection & Checklist	30	19-Nov-26	30-Dec-26
Perform Elevator Final Inspection	10	31-Dec-26	13-Jan-27
Install Metal Wall Panels	15	28-Jan-27	17-Feb-27
Core & Shell B	290	29-Jan-26	10-Mar-27
Spread Footings & Foundations	10	29-Jan-26	11-Feb-26
Install CMU Founation Walls	5	12-Feb-26	18-Feb-26
Place Concrete Slab on Grade	10	19-Feb-26	04-Mar-26
Set Structural Steel Members	15	23-Mar-26	10-Apr-26
Set Steel Decking	5	13-Apr-26	17-Apr-26
Install Cold Form Framing & Sheathing	10	13-Apr-26	24-Apr-26
CMU Exterior Rated Masonry Walls	15	13-Apr-26	01-May-26
Detail Structural Steel	20	20-Apr-26	15-May-26
Install Waterproofing & Flashing	5	27-Apr-26	01-May-26
Aluminum Storefront & Glazing	10	27-Apr-26	08-May-26
Membrane Roofing	7	04-May-26	12-May-26
Install Masonry Veneer	10	04-May-26	15-May-26
Place Concrete Slab on Deck(s)	5	18-May-26	22-May-26
Install Metal Wall Panels	15	18-Feb-27	10-Mar-27
Core & Shell A	295	12-Feb-26	31-Mar-27
Spread Footings & Foundations	15	12-Feb-26	04-Mar-26
Install CMU Founation Walls	5	05-Mar-26	11-Mar-26
Elevator Pit	5	05-Mar-26	11-Mar-26
Place Concrete Slab on Grade	10	12-Mar-26	25-Mar-26
Set Structural Steel Members	20	13-Apr-26	08-May-26
Set Steel Decking	8	11-May-26	20-May-26
Install Cold Form Framing & Sheathing	15	11-May-26	29-May-26
CMU Exterior Rated Masonry Walls	15	11-May-26	29-May-26
Detail Structural Steel	30	21-May-26	01-Jul-26
Membrane Roofing	7	01-Jun-26	09-Jun-26
Install Waterproofing & Flashing	8	01-Jun-26	10-Jun-26
Aluminum Storefront & Glazing	15	01-Jun-26	19-Jun-26
Install Masonry Veneer	20	11-Jun-26	08-Jul-26
Place Concrete Slab on Deck(s)	8	02-Jul-26	13-Jul-26
Install Elevator Car	15	19-Nov-26	09-Dec-26

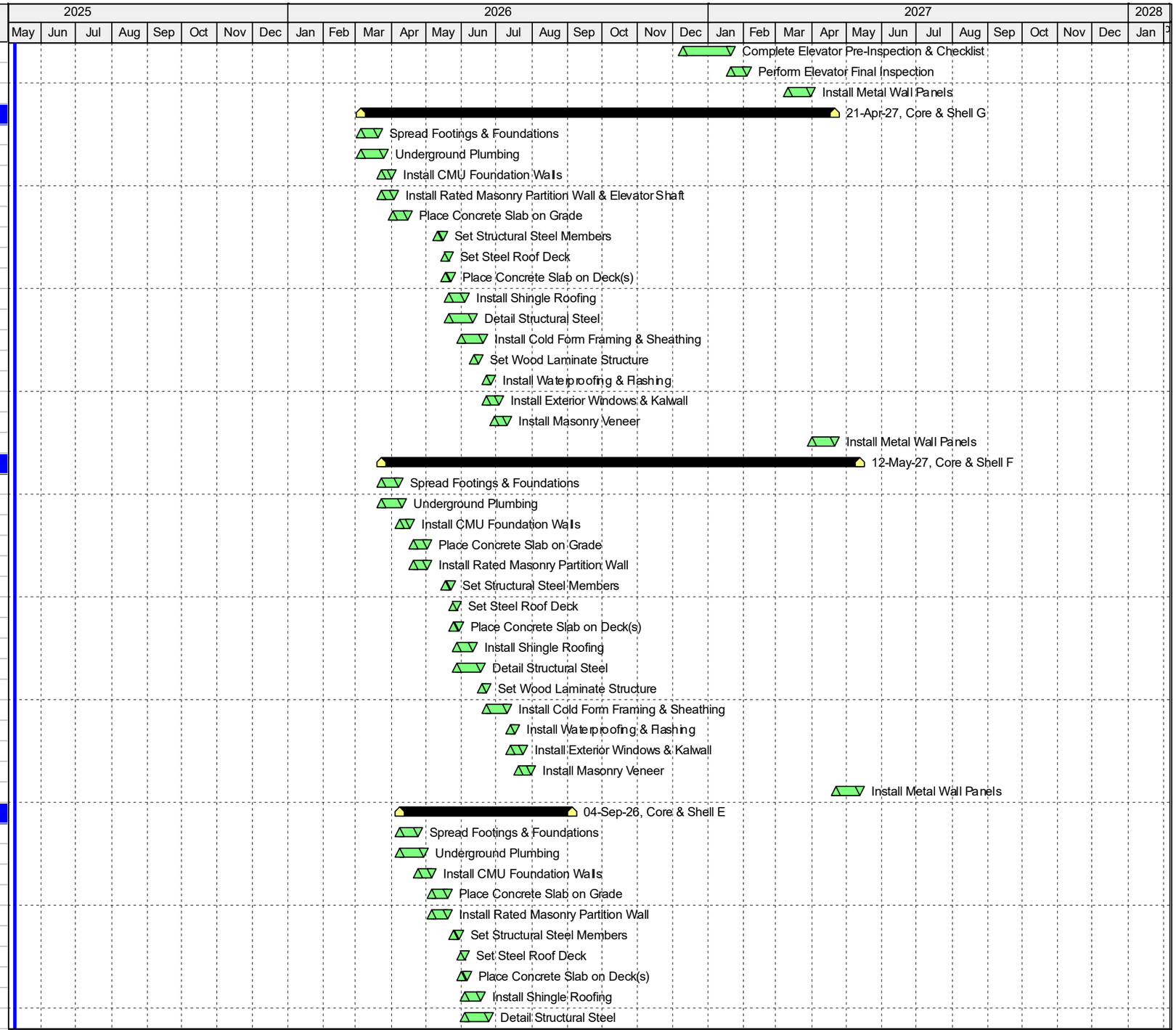


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Activity Name	Original Duration	Start	Finish
Complete Elevator Pre-Inspection & Checklist	30	10-Dec-26	20-Jan-27
Perform Elevator Final Inspection	10	21-Jan-27	03-Feb-27
Install Metal Wall Panels	15	11-Mar-27	31-Mar-27
Core & Shell G	295	05-Mar-26	21-Apr-27
Spread Footings & Foundations	12	05-Mar-26	20-Mar-26
Underground Plumbing	15	05-Mar-26	25-Mar-26
Install CMU Foundation Walls	8	23-Mar-26	01-Apr-26
Install Rated Masonry Partition Wall & Elevator Shaft	10	23-Mar-26	03-Apr-26
Place Concrete Slab on Grade	10	02-Apr-26	15-Apr-26
Set Structural Steel Members	5	11-May-26	15-May-26
Set Steel Roof Deck	3	18-May-26	20-May-26
Place Concrete Slab on Deck(s)	5	18-May-26	22-May-26
Install Shingle Roofing	10	21-May-26	03-Jun-26
Detail Structural Steel	15	21-May-26	10-Jun-26
Install Cold Form Framing & Sheathing	15	01-Jun-26	19-Jun-26
Set Wood Laminate Structure	3	11-Jun-26	15-Jun-26
Install Waterproofing & Flashing	5	22-Jun-26	26-Jun-26
Install Exterior Windows & Kalwall	10	22-Jun-26	03-Jul-26
Install Masonry Veneer	10	29-Jun-26	10-Jul-26
Install Metal Wall Panels	15	01-Apr-27	21-Apr-27
Core & Shell F	298	23-Mar-26	12-May-27
Spread Footings & Foundations	12	23-Mar-26	07-Apr-26
Underground Plumbing	15	23-Mar-26	10-Apr-26
Install CMU Foundation Walls	8	08-Apr-26	17-Apr-26
Place Concrete Slab on Grade	10	20-Apr-26	01-May-26
Install Rated Masonry Partition Wall	10	20-Apr-26	01-May-26
Set Structural Steel Members	5	18-May-26	22-May-26
Set Steel Roof Deck	3	25-May-26	27-May-26
Place Concrete Slab on Deck(s)	5	25-May-26	29-May-26
Install Shingle Roofing	10	28-May-26	10-Jun-26
Detail Structural Steel	15	28-May-26	17-Jun-26
Set Wood Laminate Structure	3	18-Jun-26	22-Jun-26
Install Cold Form Framing & Sheathing	15	22-Jun-26	10-Jul-26
Install Waterproofing & Flashing	5	13-Jul-26	17-Jul-26
Install Exterior Windows & Kalwall	10	13-Jul-26	24-Jul-26
Install Masonry Veneer	10	20-Jul-26	31-Jul-26
Install Metal Wall Panels	15	22-Apr-27	12-May-27
Core & Shell E	108	08-Apr-26	04-Sep-26
Spread Footings & Foundations	12	08-Apr-26	23-Apr-26
Underground Plumbing	15	08-Apr-26	28-Apr-26
Install CMU Foundation Walls	8	24-Apr-26	05-May-26
Place Concrete Slab on Grade	10	06-May-26	19-May-26
Install Rated Masonry Partition Wall	10	06-May-26	19-May-26
Set Structural Steel Members	5	25-May-26	29-May-26
Set Steel Roof Deck	3	01-Jun-26	03-Jun-26
Place Concrete Slab on Deck(s)	5	01-Jun-26	05-Jun-26
Install Shingle Roofing	10	04-Jun-26	17-Jun-26
Detail Structural Steel	15	04-Jun-26	24-Jun-26

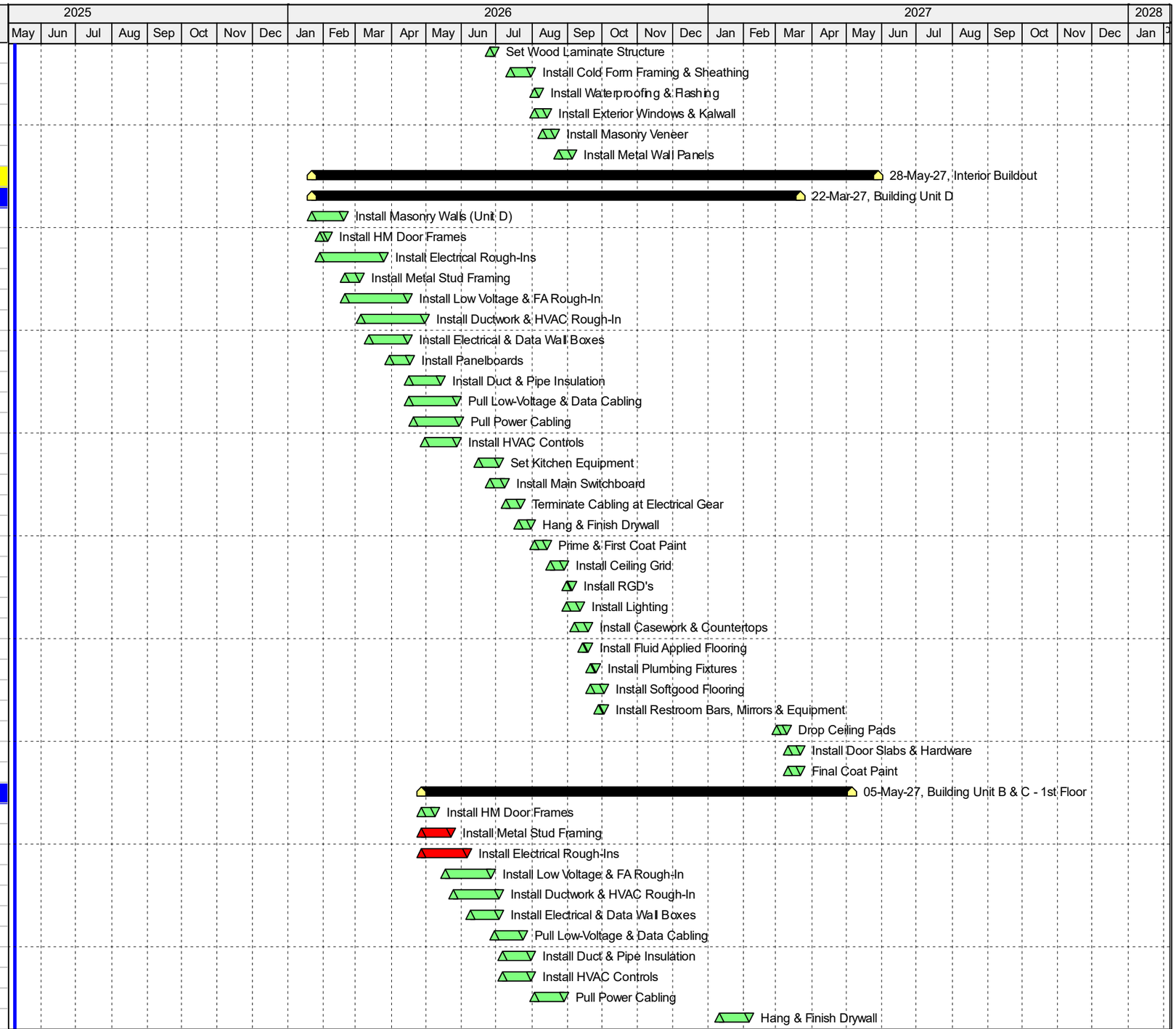


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Activity Name	Original Duration	Start	Finish
Set Wood Laminate Structure	3	25-Jun-26	29-Jun-26
Install Cold Form Framing & Sheathing	15	13-Jul-26	31-Jul-26
Install Waterproofing & Flashing	5	03-Aug-26	07-Aug-26
Install Exterior Windows & Kalwall	10	03-Aug-26	14-Aug-26
Install Masonry Veneer	10	10-Aug-26	21-Aug-26
Install Metal Wall Panels	10	24-Aug-26	04-Sep-26
Interior Buildout	352	22-Jan-26	28-May-27
Building Unit D	303	22-Jan-26	22-Mar-27
Install Masonry Walls (Unit D)	20	22-Jan-26	18-Feb-26
Install HM Door Frames	5	29-Jan-26	04-Feb-26
Install Electrical Rough-Ins	40	29-Jan-26	25-Mar-26
Install Metal Stud Framing	10	19-Feb-26	04-Mar-26
Install Low Voltage & FA Rough-In	40	19-Feb-26	15-Apr-26
Install Ductwork & HVAC Rough-In	40	05-Mar-26	29-Apr-26
Install Electrical & Data Wall Boxes	25	12-Mar-26	15-Apr-26
Install Panelboards	15	30-Mar-26	17-Apr-26
Install Duct & Pipe Insulation	20	16-Apr-26	13-May-26
Pull Low-Voltage & Data Cabling	30	16-Apr-26	27-May-26
Pull Power Cabling	30	20-Apr-26	29-May-26
Install HVAC Controls	20	30-Apr-26	27-May-26
Set Kitchen Equipment	15	15-Jun-26	03-Jul-26
Install Main Switchboard	10	25-Jun-26	08-Jul-26
Terminate Cabling at Electrical Gear	10	09-Jul-26	22-Jul-26
Hang & Finish Drywall	10	20-Jul-26*	31-Jul-26
Prime & First Coat Paint	10	03-Aug-26	14-Aug-26
Install Ceiling Grid	10	17-Aug-26	28-Aug-26
Install RGD's	5	31-Aug-26	04-Sep-26
Install Lighting	10	31-Aug-26	11-Sep-26
Install Casework & Countertops	10	07-Sep-26	18-Sep-26
Install Fluid Applied Flooring	5	14-Sep-26	18-Sep-26
Install Plumbing Fixtures	5	21-Sep-26	25-Sep-26
Install Softgood Flooring	10	21-Sep-26	02-Oct-26
Install Restroom Bars, Mirrors & Equipment	5	28-Sep-26	02-Oct-26
Drop Ceiling Pads	8	01-Mar-27*	10-Mar-27
Install Door Slabs & Hardware	8	11-Mar-27	22-Mar-27
Final Coat Paint	8	11-Mar-27	22-Mar-27
Building Unit B & C - 1st Floor	268	27-Apr-26	05-May-27
Install HM Door Frames	10	27-Apr-26	08-May-26
Install Metal Stud Framing	20	27-Apr-26	22-May-26
Install Electrical Rough-Ins	30	27-Apr-26	05-Jun-26
Install Low Voltage & FA Rough-In	30	18-May-26	26-Jun-26
Install Ductwork & HVAC Rough-In	30	25-May-26	03-Jul-26
Install Electrical & Data Wall Boxes	20	08-Jun-26	03-Jul-26
Pull Low-Voltage & Data Cabling	20	29-Jun-26	24-Jul-26
Install Duct & Pipe Insulation	20	06-Jul-26	31-Jul-26
Install HVAC Controls	20	06-Jul-26	31-Jul-26
Pull Power Cabling	20	03-Aug-26	28-Aug-26
Hang & Finish Drywall	20	11-Jan-27	05-Feb-27

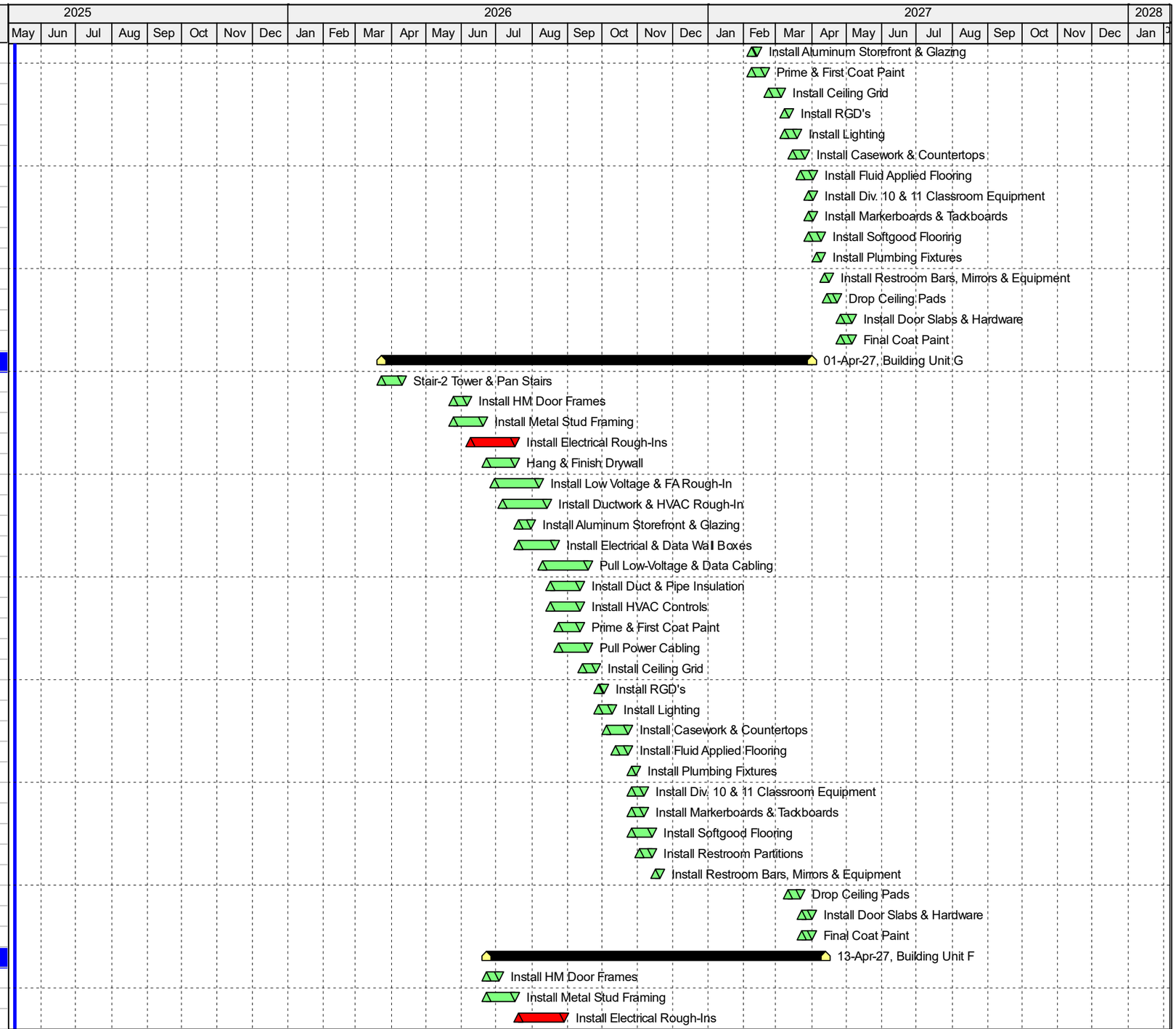


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Activity Name	Original Duration	Start	Finish
Install Aluminum Storefront & Glazing	5	08-Feb-27	12-Feb-27
Prime & First Coat Paint	10	08-Feb-27	19-Feb-27
Install Ceiling Grid	10	22-Feb-27	05-Mar-27
Install RGD's	5	08-Mar-27	12-Mar-27
Install Lighting	10	08-Mar-27	19-Mar-27
Install Casework & Countertops	10	15-Mar-27	26-Mar-27
Install Fluid Applied Flooring	10	22-Mar-27	02-Apr-27
Install Div. 10 & 11 Classroom Equipment	5	29-Mar-27	02-Apr-27
Install Markerboards & Tackboards	5	29-Mar-27	02-Apr-27
Install Softgood Flooring	10	29-Mar-27	09-Apr-27
Install Plumbing Fixtures	5	05-Apr-27	09-Apr-27
Install Restroom Bars, Mirrors & Equipment	5	12-Apr-27	16-Apr-27
Drop Ceiling Pads	8	14-Apr-27	23-Apr-27
Install Door Slabs & Hardware	8	26-Apr-27	05-May-27
Final Coat Paint	8	26-Apr-27	05-May-27
Building Unit G	269	23-Mar-26	01-Apr-27
Stair-2 Tower & Pan Stairs	15	23-Mar-26	10-Apr-26
Install HM Door Frames	10	25-May-26	05-Jun-26
Install Metal Stud Framing	20	25-May-26	19-Jun-26
Install Electrical Rough-Ins	30	08-Jun-26	17-Jul-26
Hang & Finish Drywall	20	22-Jun-26	17-Jul-26
Install Low Voltage & FA Rough-In	30	29-Jun-26	07-Aug-26
Install Ductwork & HVAC Rough-In	30	06-Jul-26	14-Aug-26
Install Aluminum Storefront & Glazing	10	20-Jul-26	31-Jul-26
Install Electrical & Data Wall Boxes	25	20-Jul-26	21-Aug-26
Pull Low-Voltage & Data Cabling	30	10-Aug-26	18-Sep-26
Install Duct & Pipe Insulation	20	17-Aug-26	11-Sep-26
Install HVAC Controls	20	17-Aug-26	11-Sep-26
Prime & First Coat Paint	15	24-Aug-26	11-Sep-26
Pull Power Cabling	20	24-Aug-26	18-Sep-26
Install Ceiling Grid	10	14-Sep-26	25-Sep-26
Install RGD's	5	28-Sep-26	02-Oct-26
Install Lighting	10	28-Sep-26	09-Oct-26
Install Casework & Countertops	15	05-Oct-26	23-Oct-26
Install Fluid Applied Flooring	10	12-Oct-26	23-Oct-26
Install Plumbing Fixtures	5	26-Oct-26	30-Oct-26
Install Div. 10 & 11 Classroom Equipment	10	26-Oct-26	06-Nov-26
Install Markerboards & Tackboards	10	26-Oct-26	06-Nov-26
Install Softgood Flooring	15	26-Oct-26	13-Nov-26
Install Restroom Partitions	10	02-Nov-26	13-Nov-26
Install Restroom Bars, Mirrors & Equipment	5	16-Nov-26	20-Nov-26
Drop Ceiling Pads	8	11-Mar-27	22-Mar-27
Install Door Slabs & Hardware	8	23-Mar-27	01-Apr-27
Final Coat Paint	8	23-Mar-27	01-Apr-27
Building Unit F	212	22-Jun-26	13-Apr-27
Install HM Door Frames	10	22-Jun-26	03-Jul-26
Install Metal Stud Framing	20	22-Jun-26	17-Jul-26
Install Electrical Rough-Ins	30	20-Jul-26	28-Aug-26

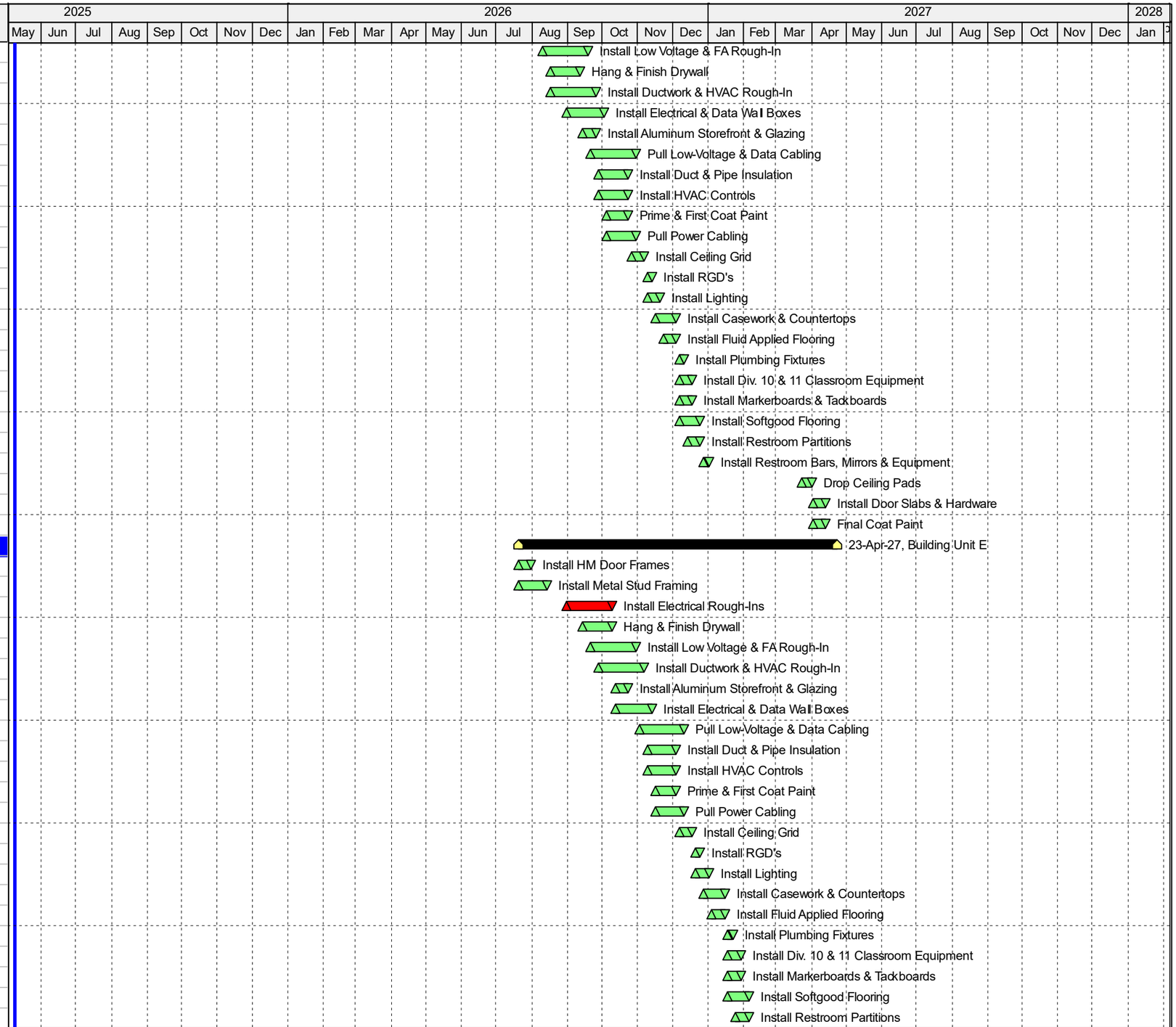


Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

ZCS ELC/ESC

Guideline Schedule

Activity Name	Original Duration	Start	Finish
Install Low Voltage & FA Rough-In	30	10-Aug-26	18-Sep-26
Hang & Finish Drywall	20	17-Aug-26	11-Sep-26
Install Ductwork & HVAC Rough-In	30	17-Aug-26	25-Sep-26
Install Electrical & Data Wall Boxes	25	31-Aug-26	02-Oct-26
Install Aluminum Storefront & Glazing	10	14-Sep-26	25-Sep-26
Pull Low-Voltage & Data Cabling	30	21-Sep-26	30-Oct-26
Install Duct & Pipe Insulation	20	28-Sep-26	23-Oct-26
Install HVAC Controls	20	28-Sep-26	23-Oct-26
Prime & First Coat Paint	15	05-Oct-26	23-Oct-26
Pull Power Cabling	20	05-Oct-26	30-Oct-26
Install Ceiling Grid	10	26-Oct-26	06-Nov-26
Install RGD's	5	09-Nov-26	13-Nov-26
Install Lighting	10	09-Nov-26	20-Nov-26
Install Casework & Countertops	15	16-Nov-26	04-Dec-26
Install Fluid Applied Flooring	10	23-Nov-26	04-Dec-26
Install Plumbing Fixtures	5	07-Dec-26	11-Dec-26
Install Div. 10 & 11 Classroom Equipment	10	07-Dec-26	18-Dec-26
Install Markerboards & Tackboards	10	07-Dec-26	18-Dec-26
Install Softgood Flooring	15	07-Dec-26	25-Dec-26
Install Restroom Partitions	10	14-Dec-26	25-Dec-26
Install Restroom Bars, Mirrors & Equipment	5	28-Dec-26	01-Jan-27
Drop Ceiling Pads	8	23-Mar-27	01-Apr-27
Install Door Slabs & Hardware	8	02-Apr-27	13-Apr-27
Final Coat Paint	8	02-Apr-27	13-Apr-27
Building Unit E	200	20-Jul-26	23-Apr-27
Install HM Door Frames	10	20-Jul-26	31-Jul-26
Install Metal Stud Framing	20	20-Jul-26	14-Aug-26
Install Electrical Rough-Ins	30	31-Aug-26	09-Oct-26
Hang & Finish Drywall	20	14-Sep-26	09-Oct-26
Install Low Voltage & FA Rough-In	30	21-Sep-26	30-Oct-26
Install Ductwork & HVAC Rough-In	30	28-Sep-26	06-Nov-26
Install Aluminum Storefront & Glazing	10	12-Oct-26	23-Oct-26
Install Electrical & Data Wall Boxes	25	12-Oct-26	13-Nov-26
Pull Low-Voltage & Data Cabling	30	02-Nov-26	11-Dec-26
Install Duct & Pipe Insulation	20	09-Nov-26	04-Dec-26
Install HVAC Controls	20	09-Nov-26	04-Dec-26
Prime & First Coat Paint	15	16-Nov-26	04-Dec-26
Pull Power Cabling	20	16-Nov-26	11-Dec-26
Install Ceiling Grid	10	07-Dec-26	18-Dec-26
Install RGD's	5	21-Dec-26	25-Dec-26
Install Lighting	10	21-Dec-26	01-Jan-27
Install Casework & Countertops	15	28-Dec-26	15-Jan-27
Install Fluid Applied Flooring	10	04-Jan-27	15-Jan-27
Install Plumbing Fixtures	5	18-Jan-27	22-Jan-27
Install Div. 10 & 11 Classroom Equipment	10	18-Jan-27	29-Jan-27
Install Markerboards & Tackboards	10	18-Jan-27	29-Jan-27
Install Softgood Flooring	15	18-Jan-27	05-Feb-27
Install Restroom Partitions	10	25-Jan-27	05-Feb-27

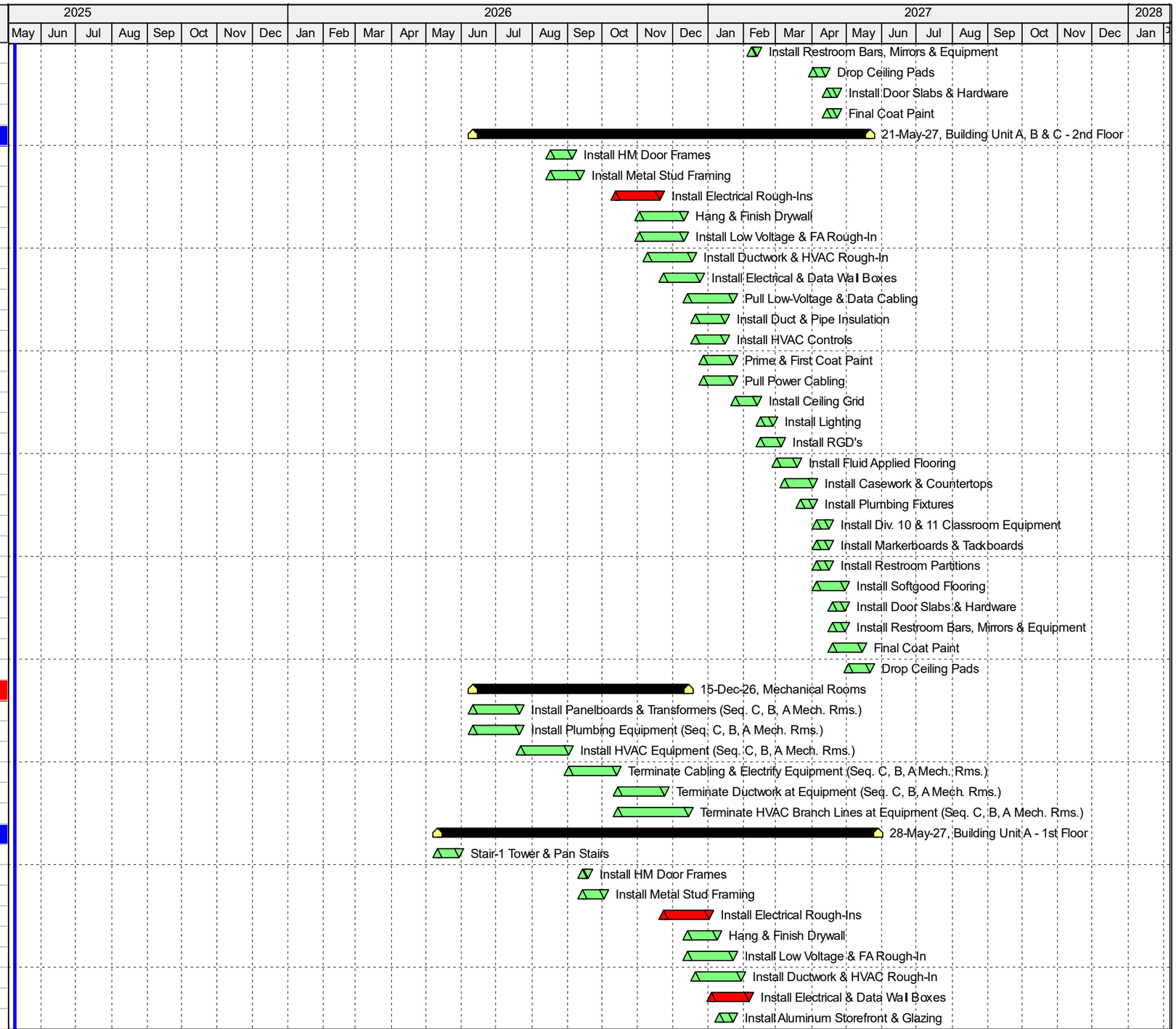


Actual Work
Remaining Work
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ZCS ELC/ESC

Guideline Schedule

Activity Name	Original Duration	Start	Finish
Install Restroom Bars, Mirrors & Equipment	5	08-Feb-27	12-Feb-27
Drop Ceiling Pads	8	02-Apr-27	13-Apr-27
Install Door Slabs & Hardware	8	14-Apr-27	23-Apr-27
Final Coat Paint	8	14-Apr-27	23-Apr-27
Building Unit A, B & C -2nd Floor	248	10-Jun-26	21-May-27
Install HM Door Frames	15	17-Aug-26	04-Sep-26
Install Metal Stud Framing	20	17-Aug-26	11-Sep-26
Install Electrical Rough-Ins	30	12-Oct-26	20-Nov-26
Hang & Finish Drywall	30	02-Nov-26	11-Dec-26
Install Low Voltage & FA Rough-In	30	02-Nov-26	11-Dec-26
Install Ductwork & HVAC Rough-In	30	09-Nov-26	18-Dec-26
Install Electrical & Data Wall Boxes	25	23-Nov-26	25-Dec-26
Pull Low-Voltage & Data Cabling	30	14-Dec-26	22-Jan-27
Install Duct & Pipe Insulation	20	21-Dec-26	15-Jan-27
Install HVAC Controls	20	21-Dec-26	15-Jan-27
Prime & First Coat Paint	20	28-Dec-26	22-Jan-27
Pull Power Cabling	20	28-Dec-26	22-Jan-27
Install Ceiling Grid	15	25-Jan-27	12-Feb-27
Install Lighting	10	15-Feb-27	26-Feb-27
Install RGD's	15	15-Feb-27	05-Mar-27
Install Fluid Applied Flooring	15	01-Mar-27	19-Mar-27
Install Casework & Countertops	20	08-Mar-27	02-Apr-27
Install Plumbing Fixtures	10	22-Mar-27	02-Apr-27
Install Div. 10 & 11 Classroom Equipment	10	05-Apr-27	16-Apr-27
Install Markerboards & Tackboards	10	05-Apr-27	16-Apr-27
Install Restroom Partitions	10	05-Apr-27	16-Apr-27
Install Softgood Flooring	20	05-Apr-27	30-Apr-27
Install Door Slabs & Hardware	10	19-Apr-27	30-Apr-27
Install Restroom Bars, Mirrors & Equipment	10	19-Apr-27	30-Apr-27
Final Coat Paint	20	19-Apr-27	14-May-27
Drop Ceiling Pads	15	03-May-27	21-May-27
Mechanical Rooms	135	10-Jun-26	15-Dec-26
Install Panelboards & Transformers (Seq. C, B, A Mech. I	30	10-Jun-26	21-Jul-26
Install Plumbing Equipment (Seq. C, B, A Mech. Rms.)	30	10-Jun-26	21-Jul-26
Install HVAC Equipment (Seq. C, B, A Mech. Rms.)	30	22-Jul-26	01-Sep-26
Terminate Cabling & Electrify Equipment (Seq. C, B, A M	30	02-Sep-26	13-Oct-26
Terminate Ductwork at Equipment (Seq. C, B, A Mech. R	30	14-Oct-26	24-Nov-26
Terminate HVAC Branch Lines at Equipment (Seq. C, B,	45	14-Oct-26	15-Dec-26
Building Unit A - 1st Floor	275	11-May-26	28-May-27
Stair-1 Tower & Pan Stairs	15	11-May-26	29-May-26
Install HM Door Frames	5	14-Sep-26	18-Sep-26
Install Metal Stud Framing	15	14-Sep-26	02-Oct-26
Install Electrical Rough-Ins	30	23-Nov-26	01-Jan-27
Hang & Finish Drywall	20	14-Dec-26	08-Jan-27
Install Low Voltage & FA Rough-In	30	14-Dec-26	22-Jan-27
Install Ductwork & HVAC Rough-In	30	21-Dec-26	29-Jan-27
Install Electrical & Data Wall Boxes	25	04-Jan-27	05-Feb-27
Install Aluminum Storefront & Glazing	10	11-Jan-27	22-Jan-27

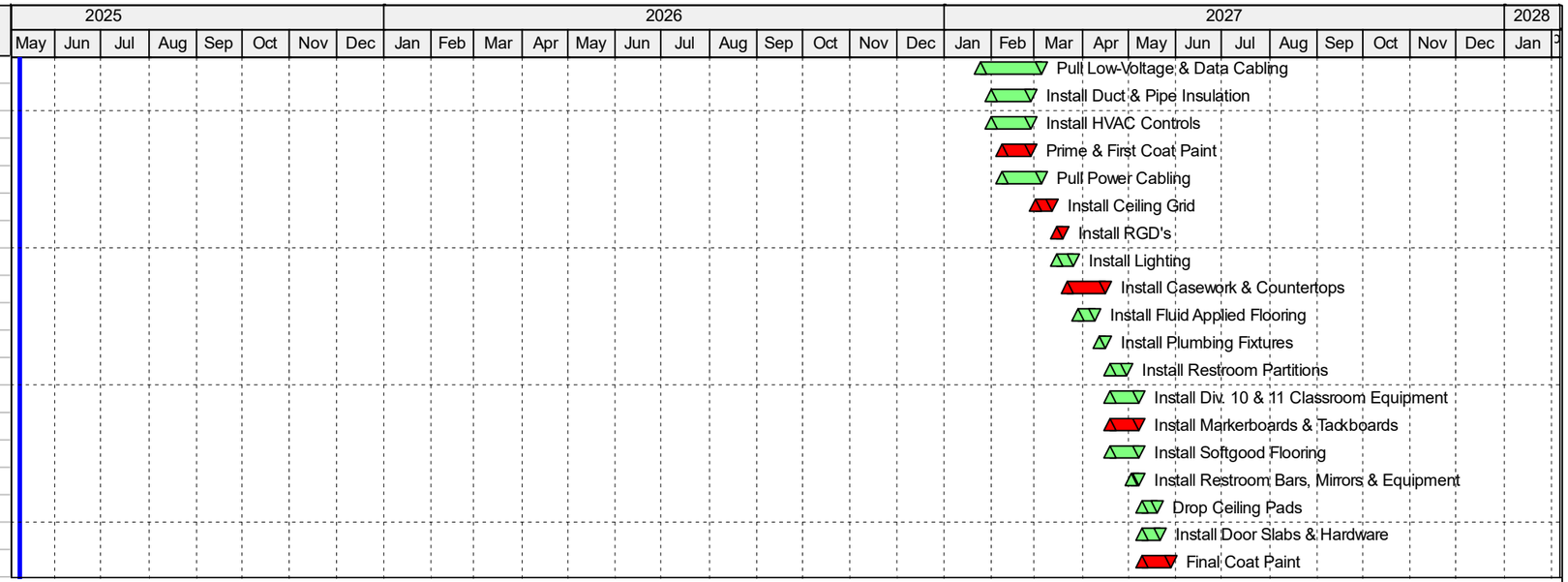


Actual Work
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ZCS ELC/ESC

Guideline Schedule

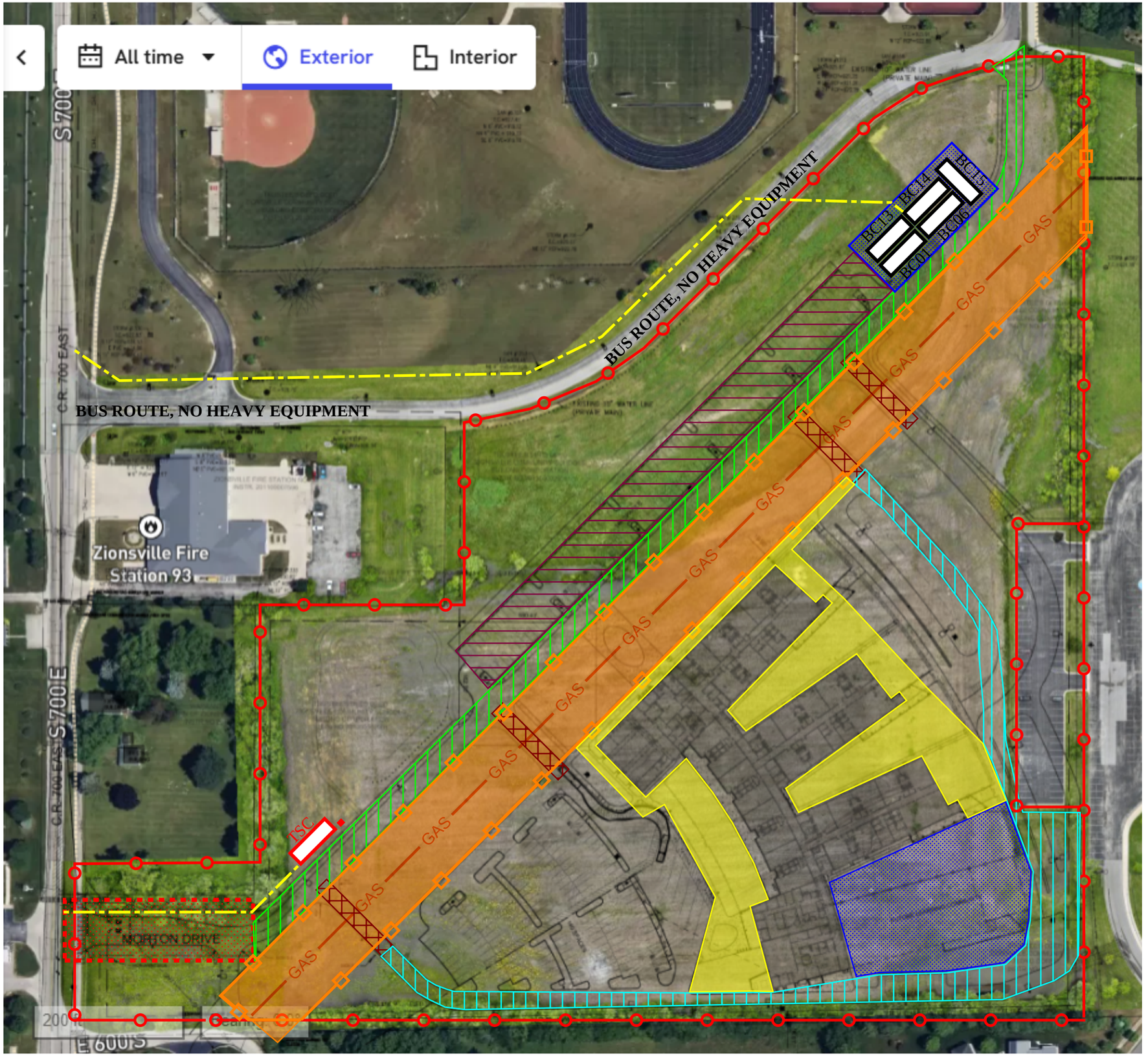
Activity Name	Original Duration	Start	Finish
Pull Low-Voltage & Data Cabling		25-Jan-27	05-Mar-27
Install Duct & Pipe Insulation	20	01-Feb-27	26-Feb-27
Install HVAC Controls	20	01-Feb-27	26-Feb-27
Prime & First Coat Paint	15	08-Feb-27	26-Feb-27
Pull Power Cabling	20	08-Feb-27	05-Mar-27
Install Ceiling Grid	10	01-Mar-27	12-Mar-27
Install RGD's	5	15-Mar-27	19-Mar-27
Install Lighting	10	15-Mar-27	26-Mar-27
Install Casework & Countertops	20	22-Mar-27	16-Apr-27
Install Fluid Applied Flooring	10	29-Mar-27	09-Apr-27
Install Plumbing Fixtures	5	12-Apr-27	16-Apr-27
Install Restroom Partitions	10	19-Apr-27	30-Apr-27
Install Div. 10 & 11 Classroom Equipment	15	19-Apr-27	07-May-27
Install Markerboards & Tackboards	15	19-Apr-27	07-May-27
Install Softgood Flooring	15	19-Apr-27	07-May-27
Install Restroom Bars, Mirrors & Equipment	5	03-May-27	07-May-27
Drop Ceiling Pads	8	10-May-27	19-May-27
Install Door Slabs & Hardware	10	10-May-27	21-May-27
Final Coat Paint	15	10-May-27	28-May-27



Actual Work
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ZCS ELC/ESC

Guideline Schedule



Construction Fencing

Apprx. Location of Temporary Power Route

GAS GAS
Country Mark Gas Main

Orange Snow Fence Around Gas Easement

Gas Main Easement. Refer to Country Mark Guidelines.

Building Perimeter Access Road

Construction Entrance

TSC
Skillman Jobsite Trailer

BC15
Prime Contractor Jobsite Trailer

Dedicated Gas Easement Crossing. Refer to Country Mark Guidelines

Dedicated, Lockable Port-a-Let (Adjacent to Skillman Project Trailer)

Primary Access & Haul Road. Refer to 015500 - Access Roads, Parking Areas & Groundskeeping.

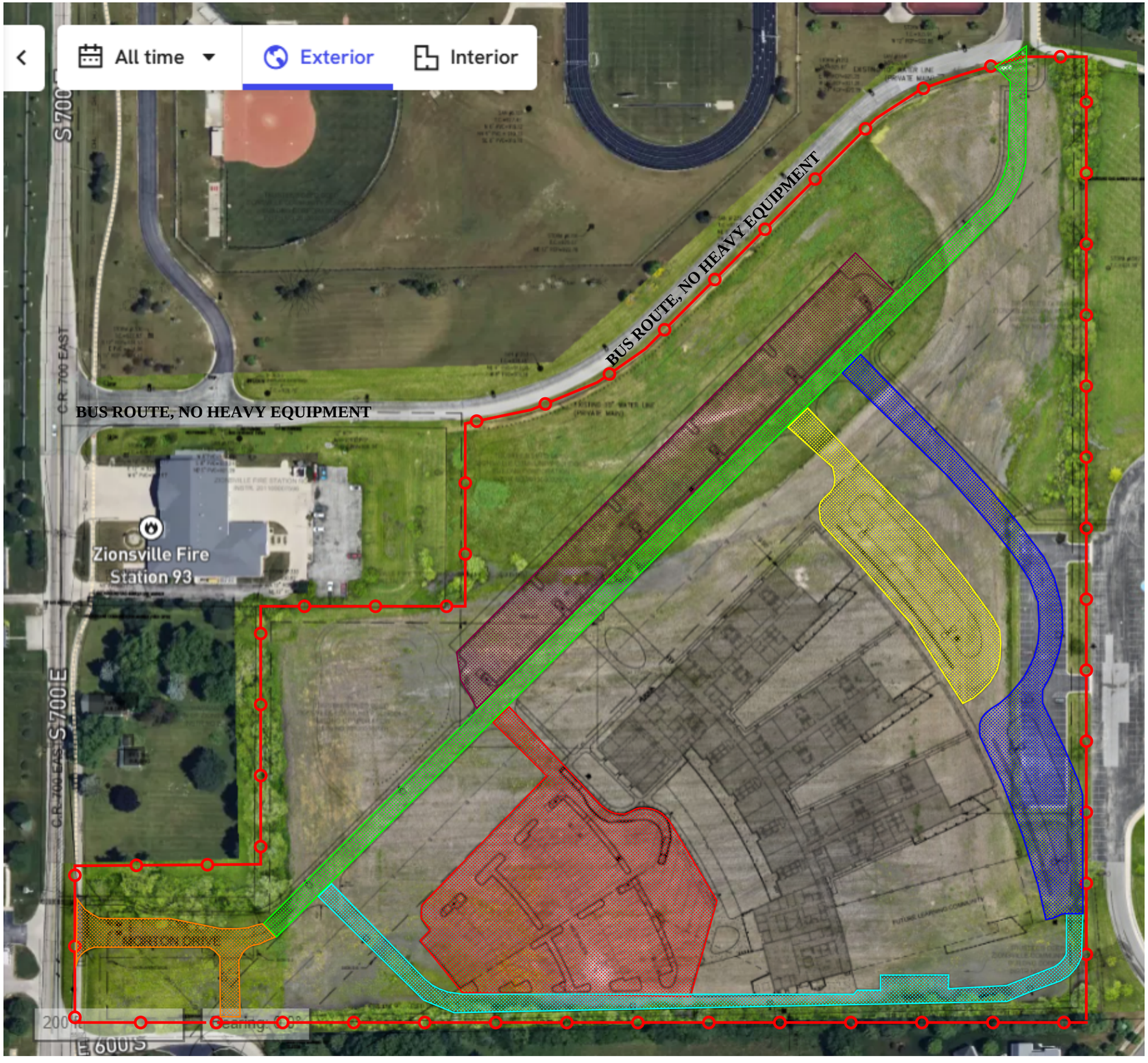
Contractor Parking

Secondary Access & Haul Road. Refer to 015500 - Access Roads, Parking Areas & Groundskeeping.

Contractor Laydown & Staging Area (Prioritize MEPF Storage)

200'-0"
Apprx. Scale

EXTERIOR SITE LOGISTICS PLAN



Sequence #01: Fall 2025
- Over pave binder course by 2'-0" in all directions
- To be used as primary haul road by all trades.

Sequence #02: Fall 2025
- Over pave binder course by 2'-0" in all directions,
- Over pave through landscape islands.
- To be used as Contractor parking

Sequence #03: Spring 2026
- Over pave binder course by 2'-0" in all directions,
- To be used as secondary haul road by all trades.
- Stone & Binder in Fall 2025 if possible.

Sequence #04: Spring 2026
- Over pave binder course by 2'-0" in all directions.
- Over pave through landscape islands.
- Paving operations to follow site utilities, including well field.
- Stone & Binder in Fall 2025 if possible.

Sequence #05: Summer 2026
- Over pave binder course by 2'-0" only at curb locations.
- To be used as Contractor parking

Sequence #06: Summer 2026
- Over pave binder course by 2'-0" only at curb locations.
- To be used as secondary haul road by all trades.

Sequence #07: Spring 2027
- Install stone and binder.
- No overpaving.

Install concrete curbs ahead of asphalt.

Sequence #08: Spring 2027
-Saw cut and demolish all over paved locations.
- Install all concrete curbs

Sequence #09: Summer 2027
- Clean and prepare all asphalt surfaces for wearing course
- Install all wearing course asphalt
- Install all signage and bumpers
- Stripe all asphalt

200'-0"
Apprx. Scale

ASPHALT PAVING SEQUENCE PLAN

SITEWORK DESCRIPTION PLAN

Building Pad

Gas Easement

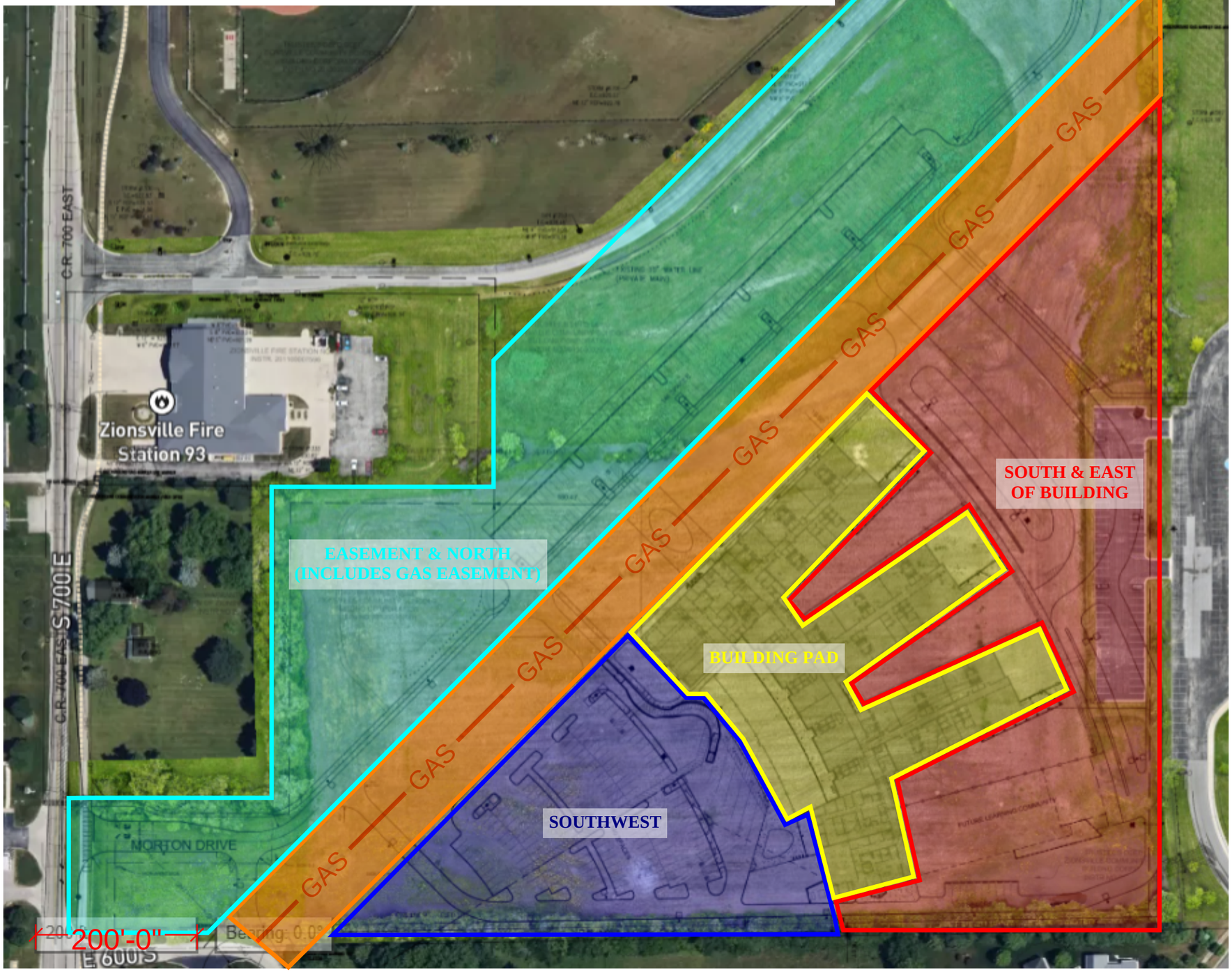
GAS GAS
Country Mark Gas Main

Southwest

Easement & North
(Includes Gas Easement)

South & East
of Building

200'-0"
Approximate Scale



A D D E N D U M N O. 1

Zionsville Community Schools New Early Learning Center/Educational Services Center

Zionsville Community Schools
Zionsville, Indiana

Project No. 224033.00

Index of Contents

Addendum No. 1, 23 items, 5 pages
New Project Manual Section: 09 84 33 - Sound-Absorbing Wall Units
Revised Project Manual Sections: 11 68 13 – Playground Equipment and Structures, and 32 18 16 – Playground Protective Surfacing
Revised Drawing Sheets: G1-04, G1-05, G4-00, G4-01, SU1-1, SU1-3, SU2-02, S-101, S-102, S-103, S-104, S-105, S-113, S-117, S-201, S-211, S-212, S-301, S-303, S-305, S-401, S-506, S-507, S-508, S-509, S-510, S-511, AE401, IF101, IF102, IF103, IF104, IF105, IF106, IF107, IF108, IF109, IF110, IN201, IN 202, IN401, IN 601, Q-101, Q-102, Q-103, Q-104, Q-105, Q-106, Q-107, Q-109, Q-110, Q-201, Q-202, QE501, QE502, QE503, QE601, PL11A, PL11B, PL11F, PL12A, P-302, P-304, P-403, P-404, MV11C, M-401, M-402, M-601, ES001, ET11A, EL11A, EL11B, EL11C, EL11E, EL11F, EL11G, EL12B, EL12C, EP11A, EP11D, EP11E, EP11G, EP12A, EP12B, EP12C, EP12E, EP12F, EP12G, E-401, E-502, E-601, E-604, E-605, E-701, E-702, T-001, T-11A, and T-11D
Pre-Bid Clarification Log

Date: July 9, 2025

I hereby certify that this Addendum was prepared by me or under my direct supervision and that I am a duly registered Architect/Engineer under the Laws of the State of Indiana.

FANNING/HOWEY ASSOCIATES, INC.
ARCHITECTS/ENGINEERS/CONSULTANTS



Paul A. Miller
Registration Number AR10800161

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 1 to Drawings and Project Manual, dated June 24, 2025, for Zionsville Community Schools New Early Learning Center/Educational Services Center for Zionsville Community Schools, 900 Mulberry Street, Zionsville, Indiana, 46077; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana.
This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum.

Each bidder shall acknowledge receipt of this Addendum in his proposal or bid.

NOTE: Bidders are responsible for becoming familiar with every item of this Addendum. (This includes miscellaneous items at the very end of this Addendum.)

RE: ALL BIDDERS

ITEM NO. 1. PROJECT MANUAL, TABLE OF CONTENTS

A. Volume #2, Page 00 00 20-4, DIVISION 09: Add Section 09 84 33 – Sound-Absorbing Wall Units.

ITEM NO. 2. NEW PROJECT MANUAL SECTION

A. New Project Manual Sections 09 84 33 – Sound-Absorbing Wall Units are included with and hereby made a part of this Addendum.

ITEM NO. 3. REVISED PROJECT MANUAL SECTIONS

A. 11 68 13 – Playground Equipment and Structures and 32 18 16 – Playground Protective Surfaces have been revised, dated 7/9/25 and is included with and hereby made a part of this Addendum.

ITEM NO. 4. PROJECT MANUAL, SECTION 01 40 00 – QUALITY REQUIREMENTS

A. Article 2.1., E: Add the following items to the listing beginning with Item No. 12.

"12. Plywood Faced Insulation.
13. Roof Specialties, Coping assembly.
14. Steel Lintels.
15. Electrical box.
16. Masonry expansion joint and sealant.
17. Flexible Flashing and cavity wall accessories"

ITEM NO. 5. PROJECT MANUAL, SECTION 06 20 23 – INTERIOR FINISH CARPENTRY

A. Article 1.1, A., 2: Add "Wood Venter Panels (WVP)" to end of sentence.

ITEM NO. 6. PROJECT MANUAL, SECTION 06 41 13 – WOOD-VENEER-FACED ARCHITECTURAL CABINETS

A. Add 2.4, Q., as follows:

"Q. Flip-Up Power Grommet as indicated on Drawings."

B. Add 2.8, F., 9., as follows:

"9. Provide curved wood veneer panels and solid surface panels with appropriate and required adhesives and concealed fasteners. Provide internal plywood framework and rib supports as required to achieve and maintain required radius of assembly.
a. Support joints with concealed stiffeners to hold adjoining materials in flush alignment."

ITEM NO. 7. PROJECT MANUAL, SECTION 06 42 00 – WOOD PANELING

A. Article 2.4, A: Add "(WGS)" at end of title.

B. Article 2.5, A: Add "(WCC)" at end of title.

ITEM NO. 8. PROJECT MANUAL, SECTION 07 54 00 – THERMOPLASTIC MEMBRANE ROOFING

A. Replace 2.4, I., as follows:

"I. Protection Sheet: As part of Alternate, provide extra sacrificial layer of roofing membrane that extends a minimum of between 3 and 6 inches beyond the edges of each row or grouping of photovoltaic panel racks and ballast system. Thickness shall be minimum of 60 mils or thicker as required by manufacturer to maintain warranty."

B. Add 3.8, I., as follows:

"I. Install protection sheet per manufacturer's written instructions, weld perimeter to membrane. Provide protection sheet as part of alternate under photovoltaic panel assemblies."

ITEM NO. 9. PROJECT MANUAL, SECTION 09 21 16 – GYPSUM BOARD ASSEMBLIES

A. Add 2.9, F., 2., e., as follows:

"e. Type "J": Drywall "J" Molding: JDM-625"

B. Add 3.11, B., 6., c., as follows:

"c. Provide this level on substrate behind Digital Vinyl Wall Covering and Digital Vinyl Film finishes."

ITEM NO. 10. PROJECT MANUAL, SECTION 09 51 13 – ACOUSTICAL PANEL CEILINGS

A. Article 2.5, B., 5: Change "ACT Type 2" to "ACT Type 4".

ITEM NO. 11. PROJECT MANUAL, SECTION 09 54 23 – LINEAR METAL CEILINGS

A. Replace 2.3, B., 3., a., as follows:

"a. Exterior: Nonperforated and perforated for venting where indicated, maximum open area 23%."

ITEM NO. 12. PROJECT MANUAL, SECTION 09 65 19 – RESILIENT TILE FLOORING

A. Article 2.3, C: Change "6.0 mm" to "2.0 mm".

B. Article 2.3, C., 1: Change "28 mil" to "0.3 mm".

ITEM NO. 13. PROJECT MANUAL, SECTION 10 14 19 – DIMENSIONAL LETTER SIGNAGE

A. Add 2.2, A., 6., a., as follows:

"a. Provide projecting studs where indicated at Wood Grille System"

B. Add 2.4, A., 2., b., as follows:

"b. Projecting Studs: Threaded studs with sleeve spacer, welded or brazed to back of sign material, screwed into back of sign assembly, or screwed into tapped lugs cast integrally into back of cast sign material, unless otherwise indicated."

ITEM NO. 14. PROJECT MANUAL, SECTION 10 14 23.16 – INTERIOR PANEL SIGNAGE

A. Add 1.1, A., 5., as follows:

"5. Digital Vinyl Film/Vinyl Wall Graphics (DVF)."

B. Add 2.6, B., as follows:

"B. Digital Vinyl Film/Vinyl Wall Graphics (DVF): Vinyl film of nominal thickness of between 3 and 3.5 mils, with integral adhesive, aggressive and removable, outdoor durability, 5 years, indoor durability 5 years and ASTM E84, Class A surface burning resistance.
1. Vinyl Manufacturers: Subject to compliance with requirements provide one of the following:
   a. Avery Dennison
   b. Orafol
   c. Mactac
   d. 3M
2. Size: As indicated on Drawings.
3. Substrate: As indicated on Drawings.
4. Graphics: Custom digital graphical image as provided by Architect or Owner."

C. Replace 3.2, E., as follows:

"E. Field-Applied Vinyl Character Signs and Digital Vinyl Film: Clean and dry substrate. Align sign characters and image in final position before removing release liner. Remove release liner in stages and apply and firmly press material into final position utilizing standard film application practices. Press from the middle outward to obtain good bond without blisters or fish mouths. Remove carrier film without disturbing applied vinyl film. Ensure edges and perimeter of film have adhered tightly.

ITEM NO. 15. PROJECT MANUAL, SECTION 10 22 39 – OPERABLE (FOLDING PANEL) PARTITIONS

A. Delete 2.8, B., 1., b., in its entirety.

B. Delete 2.8, B., 2, and 3., in their entirety.

C. Delete 3.7, A., 3., b., in its entirety.

ITEM NO. 16. PROJECT MANUAL, SECTION 23 07 00 – HVAC INSULATION

A. Add 3.16, C, as follows:

"C. Refrigerant Liquid, Suction and Hot-Gas Piping:
1. All Pipe Sizes: Insulation shall be the following:
a. Flexible Elastomeric: 1-1/2 inch thick.

B. Add Article 3.18, as follows:

"3.18 OUTDOOR, ABOVEGROUND PIPING INSULATION SCHEDULE

A. Refrigerant Suction, Liquid and Hot Gas Bypass
1. All Pipe Sizes: Insulation shall be the following:
a. Flexible Elastomeric: 1 inch thick with protective jacketing.

ITEM NO. 17. PROJECT MANUAL, SECTION 23 09 00 - HVAC DIRECT DIGITAL CONTROLS

A. Replace 2.1, A, 3, as follows:

"3. Honeywell by e-Solutions."

ITEM NO. 18. PROJECT MANUAL, SECTION 23 09 93 - HVAC SEQUENCE OF OPERATIONS

A. Replace 2.24, A, 9, as follows:

"9. Any technology room temperature above 85 degrees F (adj.) and humidity above 70% RH (adj.) and below 30% RH (adj.)."

ITEM NO. 19. PROJECT MANUAL, SECTION 26 31 00 – PHOTOVOLTAIC COLLECTORS

A. Replace 2.9, B., as follows:

"B. Sloped Shingle Roof Mounting: Comply with UL 2703 and UL 3741 certification.
a. Flush mount rail rack: Basis of Design UniRac NZXT U-mount system.
b. Direct to Roof Mounting Bracket: Basis of Desing UniRac "FlashLoc Duo" for attachment to plywood sheathing. High strength waterproof attachment with contour conforming gasket and pressurized sealant chamber in dark color. Manufacturer's 25 year full system warranty.

ITEM NO. 20. ACCEPTABLE MANUFACTURERS

The following manufacturers are to be considered acceptable manufacturers (suppliers and fabricators) for the Sections of the Specifications listed. Listed manufacturers are required to bid on products equal in type and design, size, function, and quality to that originally specified. Final decision as to equality of products specified versus those proposed shall be made by the Architect.

Section 23 81 23 – Computer Room air conditionner
- AboveAir

ITEM NO. 21. REVISED DRAWING SHEETS

A. Drawing Sheets: G1-04, G1-05, G4-00, G4-01, SU1-1, SU1-3, SU2-02, S-101, S-102, S-103, S-104, S-105, S-113, S-117, S-201, S-211, S-212, S-301, S-303, S-305, S-401, S-506, S-507, S-508, S-509, S-510, S-511, AE401, IF101, IF102, IF103, IF104, IF105, IF106, IF107, IF108, IF109, IF110, IN201, IN 202, IN401, IN 601, Q-101, Q-102, Q-103, Q-104, Q-105, Q-106, Q-107, Q-109, Q-110, Q-201, Q-202, QE501, QE502, QE503, QE601, PL11A, PL11B, PL11F, PL12A, P-302, P-304, P-403, P-404, MV11C, M-401, M-402, M-601, ES001, ET11A, EL11A, EL11B, EL11C, EL11E, EL11F, EL11G, EL12B, EL12C, EP11A, EP11D, EP11E, EP11G, EP12A, EP12B, EP12C, EP12E, EP12F, EP12G, E-401, E-502, E-601, E-604, E-605, E-701, E-702, T-001, T-11A, and T-11D have been revised, dated 7/9/25, and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

ITEM NO. 22. DRAWING SHEET NO. M-001

A. BMS - BUILDING MANAGEMENT SYSTEM CHANGED TO "BAS - BUILDING AUTOMATION SYSTEM"

ITEM NO. 23. DRAWING SHEET NO. M-701

A. ALL REFERENCES TO "BMS" ARE TO BE CHANGED TO "BAS".

END OF ADDENDUM

SECTION 09 84 33 – SOUND-ABSORBING WALL UNITS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Back-mounted acoustical wall panels as indicated.
   1. Sound-absorbing wall panels
      a. Acoustical wall panels (standard)

B. Related Sections
   1. Division 09 Section “Abuse-Resistant Sound-Absorbing Wall Units”.

1.2 DEFINITIONS

A. NRC: Noise reduction coefficient.

B. SAA: Sound Absorption Average.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of fabric facing, panel edge, core material, and mounting indicated, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Installation method.
   4. Independent testing agency test reports.

B. Shop Drawings: For unit assembly and installation.
   1. Include plans, elevations, sections, and mounting devices and details.
   2. Include details at panel head, base, joints, and corners; and details at ceiling, floor base, and wall intersections. Indicate panel edge profile and core materials.
   3. Include details of cutouts and penetrations for other work.
   4. Include direction of fabric weave and pattern matching.

C. Samples for Verification: 8 by 11 inch units of each type of acoustical wall panel indicated; in sets for each color, texture, and pattern specified for facing materials, showing the full range of variations expected in these characteristics. Include samples of installation devices and accessories.

1.4 CLOSEOUT SUBMITTALS

A. General: Closeout Submittals are to be submitted with O and M Manuals only. Do not submit with other ACTION and INFORMATIONAL Submittals:
   1. Maintenance Data: For acoustical wall panels and facings to include in maintenance manuals specified in Division 1.
   2. Warranties: Special warranties specified in this Section.
   3. Receipt of extra materials.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Protect acoustical wall treatment from excessive moisture in shipment, storage, and handling. Deliver in unopened bundles and store in a temperature-controlled dry place with adequate air circulation. Do not deliver material to building until wet work, such as concrete and plaster, has been completed and cured to a condition of equilibrium.

B. Store products in manufacturer's unopened packaging until ready for installation.
   1. Store materials flat, in dry, well ventilated space.
   2. Do not stand panels on end.
   3. Protect edges from damage.

1.6 FIELD CONDITIONS

A. Environmental Conditions: Do not begin installation until spaces for acoustical wall treatment have been enclosed and maintained at approximately the same humidity and temperature conditions as planned for occupancy. Maintain temperature and humidity as recommended by panel manufacturer.

B. Field Measurements: Check actual wall surfaces by accurate field measurements before fabrication and show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delaying the work.

C. Air Quality Limitations: Protect acoustical wall panels from exposure to airborne odors, such as tobacco smoke, and install panels under conditions free from odor contamination of ambient air.

1.7 WARRANTY

A. Special Warranty: Written warranty, signed by manufacturer agreeing to repair or replace components of acoustical wall panel system that fail in performance, materials, or workmanship within specified warranty period. Failure in performance includes, but is not limited to, acoustical performance. Failure in materials includes, but is not limited to, sagging or distortion of facing or warping of core and acoustical performance.
   1. Warranty Period: Two years from date of Substantial Completion.

1.8 MAINTENANCE

A. Furnish extra materials described below, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Fabric: For each fabric, color, and pattern installed, provide length equal to 5 percent of amount installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply for product selection:
   1. Fabric Wrapped Acoustical Wall Panels, Manufacturers: Subject to compliance with requirements, provide product by the manufacturers specified.
      a. Conwed Designscape; an Owens Corning Company
      b. Wall Technology, Inc.; an Owens Corning Company
      c. Kinetics Noise Control
      d. ESSI Acoustical Products Co.
      e. Decoustics Limited; a CertainTeed Ceilings Company
      f. MBI Products Company, Inc.
      g. Lamvin, Inc.
      h. Golterman & Sabo, Inc.
      i. Sound Seal
      j. RPG Diffusor Systems
      k. Illbruck Architectural Products
      l. Armstrong World Industries
      m. Integrated Interiors
      n. Vertical Wall Solutions; Acoustical Panel Systems (APS, Inc.)
      o. Acoustical Solutions, Inc.
      p. AVL Systems, Inc.

q. Panel Solutions
r. Perdue Acoustics
s. Sound Solutions

2. Products: Subject to compliance with requirements, provide one of the products specified.

B. Products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and functional qualities of the specified product. Requests for A/E's approval must be accompanied by the “Substitution Request Form” and complete technical data for evaluation. All materials for evaluation must be received by the Project Manager and Specification Department at least 10 days prior to bid due date. Additional approved manufacturers will be issued by Addendum.

C. Provide one of the products indicated for each designation in the Acoustical Wall Panel Schedule at the end of Part 3.

2.2 PERFORMANCE REQUIREMENTS

A. Acoustical Absorption: Perform testing in accordance with ASTM C423, Type A mounting method unless otherwise specified.

B. Fire-Test-Response Characteristics: Provide acoustical wall panels with the following surface burning characteristics as determined by testing identical products by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify acoustical wall panels with appropriate markings of applicable testing and inspecting agency.
1. Surface-Burning Characteristics: As determined by testing per ASTM E 84:
a. Flame Spread: 25 or less.
b. Smoke Developed: 450 or less.
2. Fire Growth Contribution: Meeting acceptance criteria of local code and authorities having jurisdiction when tested according to NFPA 265.

2.3 MATERIALS, GENERAL

A. Core Materials:
1. Glass-Fiber Board: ASTM C 612, Type 1A or Types 1A and 1B; density as specified, unfaced, dimensionally stable, molded rigid board, with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively.
2. Mineral-Fiber Board: Maximum flame-spread and smoke developed indexes of 25 and 10, respectively; minimum density of 13 lb/cu.ft.
3. Polyester: 100% polyester fiber, formaldehyde free, no binding agents, maximum flame-spread and smoke developed indexes of 25 and 50, respectively; minimum density of 7.5 pcf.

B. Facing Material: Fabric from same dye lot; color and pattern as indicated in “List of Finishes”.

C. Mounting Devices: Concealed on back of unit, recommended by manufacturer to support weight of unit, and as follows:
1. Adhesive.
2. Metal "Z" Clips: Two-part panel clips, with one part of each clip mechanically attached to back of panel and the other part to wall substrate, designed to allow for panel removal.

2.4 FABRICATION

A. Standard Construction: Use manufacturer’s standard construction unless otherwise indicated; with facing material applied to face, edges, and back border of dimensionally stable core; and with rigid edges to reinforce panel perimeter against warpage and damage.
1. Sound-Absorption Performance: Provide acoustical wall panels with minimum NRCs indicated, as determined by testing per ASTM C 423 for mounting type specified.

B. Edge Hardening: For glass-fiber board and mineral-fiber board cores, chemically harden core edges and areas of core where mounting devices are attached.

C. Fabric Facing: Stretched straight, on the grain, tight, square, and free from puckers, ripples, wrinkles, sags, blisters, seams, adhesive, or other foreign matter. Applied with visible surfaces fully covered.
   1. Where square corners are indicated, tailor corners.
   2. Where radius or other nonsquare corners are indicated, attach facing material so there are no seams or gathering of material.
   3. Where fabrics with directional or repeating patterns or directional weave are indicated, mark fabric top and attach fabric in same direction so pattern or weave matches in adjacent panels.

D. Core-Face Layer: Evenly stretched over core face and edges and securely attached to core; free from puckers, ripples, wrinkles, sags.

E. Dimensional Tolerances of Finished Units: Plus or minus 1/16 inch for the following:
   1. Thickness.
   2. Edge straightness.
   3. Overall length and width.
   4. Squareness from corner to corner.
   5. Chords, radii, and diameters.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of acoustical wall treatment.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install acoustical wall panels in locations indicated with vertical surfaces and edge plumb, top edges level and in alignment with other panels, scribed to fit adjoining work accurately at borders and at penetrations. Comply with panel manufacturer's printed instructions for installation of panels using type of mounting accessories indicated or, if none indicated, as recommended by manufacturer for substrate.
   1. Adhesive Mounting: Size back of panels at 18 inch on center in both directions with thin coating of adhesive in 4 inch squares. Center adhesive dabs the size of a large egg on each sized area, and press panel firmly against substrate, flattening adhesive.
   2. Mechanical Clips Mounting: Fasten bars to wall at 48 inches on center in both directions. Attach mechanical clips to back of panels in matching pattern and drop panel into position so clips fully engage into wall mounted bars.

B. Align and level fabric pattern and grain among adjacent panels.

C. Construction Tolerances; as follows:
   1. Variation from Plumb and Level: Plus or minus 1/16 inch.
   2. Variation from Joints from Hairline: Not more than 1/16 inch.

3.3 CLEANING

A. Clip loose threads; remove pills and extraneous materials.

B. Clean panels with fabric facing, on completion of installation, to remove dust and other foreign materials according to manufacturer's written instructions.

C. Remove surplus materials, rubbish, and debris resulting from acoustical wall panel installation, on completion of the Work, and leave areas of installation in a neat and clean condition.

3.4 PROTECTION

A. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer that ensure acoustical wall panels are without damage or deterioration at time of Substantial Completion.

B. Replace panels that cannot be cleaned and repaired, in a manner approved by A/E, before time of Substantial Completion.

3.5 ACOUSTICAL WALL PANEL SCHEDULE

A. Acoustical Wall Panels (AWT-_)
   1. Manufacturer's standard panel construction consisting of facing material laminated in front face, edges, and back border of core.
      a. Facing Material: Woven polyester fabric from same dye lot, color and pattern as selected by A/E from manufacturer's full range.
         1) Refer to "List of Finishes", multiple colors will be selected.
   2. Core: Manufacturer's standard meeting requirements indicated.
   3. Nominal Overall Panel Thickness: 2 inches.
   4. Panel Size: As indicated.
      a. Custom sizes are required.
   5. Edge Profile: Hardened square edge, unless otherwise noted.
   6. Corner Detail in Elevation: Square.
   7. Mounting
      a. Wall adhesive in addition to "Z" clips.

END OF SECTION 09 84 33

SECTION 11 68 13 - PLAYGROUND EQUIPMENT AND STRUCTURES

PART 1 GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

A. Section Includes: Playground equipment consisting of the following types of play structures:
   1. Freestanding.
   2. Composite.

B. Related Sections:
   1. Section 31 20 00 – Earth Moving: For filling and grading work.
   2. Section 32 18 16 – Playground Protective Surfacing: For protective surfacing under and around playground equipment.
   3. Section 03 30 00 – Cast-in-Place Concrete: For concrete footings.

1.03 DEFINITIONS

A. Composite Play Structures: According to ASTM F 1487, this means “two or more play structures, attached or functionally linked,” creating one integral unit with more than one play activity.

B. Critical Height: Standard measure of shock attenuation. According to CPSC No. 325, this means "the fall height below which a life-threatening head injury would not be expected to occur".

C. Fall Height: According to ASTM F 1487, this means "the vertical distance between a designated play surface and the protective surfacing beneath it." The fall height of playground equipment should not exceed the Critical Height of the protective surfacing beneath it.

D. HDPE: High-density polyethylene.

E. IPEMA: International Play Equipment Manufacturers Association.

F. LLDPE: Linear low-density polyethylene.

G. MDPE: Medium-density polyethylene.

H. Play Structure: According to ASTM F 1487, this is "a free-standing structure with one or more components and their supporting members".

I. Protective Surfacing: According to ASTM F 1487, this means impact-attenuating "materials to be used within the use zone of any playground equipment" for playground surface systems.

J. PVC: Polyvinyl chloride.

K. Transfer Point: According to ASTM F 1487, this is "a platform or deck along an accessible route of travel or an accessible platform provided to allow a child in a wheelchair to transfer from the chair onto the equipment".

L. Use Zone: According to ASTM F 1487, this is "the area beneath and immediately adjacent to a play structure that is designated for unrestricted circulation around the equipment and on whose surface, it is predicted that a user would land when falling from or exiting the equipment".

1.04 DESIGN REQUIREMENTS

A. Applicable technical for Public Playground Equipment by the U.S. Consumer Product Safety Commission.

B. Contractor is to install and maintain temporary fencing around playground areas while under construction until the play equipment has been inspected and released by the Architect and representative of the manufacturer. Play areas are to be marked by visible, easily readable signs identifying the area as "Area Under Construction, Do Not Enter".

C. Manufacturer shall conform to ADA (Americans with Disabilities Act) requirements that will be in effect at the time of bidding. ADA requirements supersede Technical Specifications in this Section.
   1. Playground equipment and entire area shall conform to the accessibility requirements of the ADA Guidelines including Section 15.6.

D. Manufacturer shall conform to Standard Consumer Safety Performance Specification for Playground Equipment for Public Use, ASTM F-1487-01, or most current version of this guideline.
   1. Third party certification is required to guarantee compliance with ASTM Standards.

1.05 SUBMITTALS

A. Samples for Initial Selection: Manufacturer's color charts.

B. Samples for Verification: For the following products, for each type of exposed finish required, prepared on Samples of size indicated below and of same thickness and material indicated for the Work. If finishes involve normal color and texture variations, include sample sets showing the full range of variations expected. Architect reserves the right to require additional Samples that show fabrication techniques, workmanship, and design of playground equipment.
   1. Posts and Rails: Not less than 6 inches long.
   2. Platforms: Not less than 6 inches square.
   3. Molded Plastic: Not less than 3 inches square.

C. Quality Assurance/Control Submittals
   1. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
   2. Product Certificates: Signed by manufacturers of playground equipment certifying that products furnished comply with requirements.
   3. Installer Certificates: Signed by manufacturer certifying that installers comply with requirements and qualification data.
   4. Manufacturer Certificates: Signed by manufacturers certifying that they comply with requirements. Letter from manufacturer, or their representative, that installation meets manufacturer’s recommendations.
   5. Material Certificates: Signed by manufacturers certifying that each of the following items complies with requirements.
      a. Paints and similar finishes.
      b. Recycled plastic.
   6. Coordination Drawings: Layout plans and elevations drawn to scale and coordinating playground equipment with playground surface systems. Show playground equipment locations, use zones, fall heights, extent of protective surfacing, and Critical Heights.

D. Closeout Submittals
   1. Maintenance Data: For playground equipment and finishes to include in maintenance manuals specified in Division 1.
   2. Warranty: Special warranties specified in this Section.

1.06 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer who has specialized in installing work similar in material, design, and extent to that indicated for this Project and who is acceptable to manufacturer of playground equipment.

B. Manufacturer Qualifications: A firm whose playground equipment components have been certified by IPEMA's "3rd Party Certification" service or JMP Inc., Consultant Engineers.
   1. Provide only playground equipment and play structure components bearing the IPEMA Certification Seal.

C. Testing Agency Qualifications: An independent testing agency with the experience and capability to conduct the testing indicated, as documented according to ASTM E 548.

D. Standards and Guidelines: Provide playground equipment complying with or exceeding requirements in the following:
   1. CPSC No. 325, "Handbook for Public Playground Safety".

E. Pre-Installation Conference: As soon as possible after award of playground equipment work, meet with Installer, and installers of substrate construction, such as pour in place surfacing, and loose fill soft surface (including drainage stone and underdrain tubing), Architect and Owner. Coordinate finish elevation of playground surfacing with recommended play equipment installation height/depth following manufacturer's recommendation and in compliance with recommended ranges as defined by ASTM F-1487-93.
   1. Review requirements (Contract Documents), submittals, status of coordinating work, availability of materials, and installation facilities and establish preliminary installation schedule. Review requirements for inspections, tests, certifications, forecasted weather conditions, governing regulations, and proposed installation procedures.

1.07 PROJECT CONDITIONS

A. Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
   1. Notify Architect at least two days in advance of proposed utility interruptions.
   2. Do not proceed with utility interruptions without or Architect's written permission.
   3. Before excavating, contact utility-locator service for area where Project is located.

1.08 SEQUENCING

A. Coordinate construction of equipment use zones and fall heights during installation of playground equipment with installation of protective surfacing specified in Section 32 18 16 – Playground Protective Surfacing. Sequence work so protective surfacing can be installed immediately after concrete footings has set.

1.09 WARRANTY

A. Contractor is to warrant equipment for a period of one year from the date of Substantial Completion against defects in material and workmanship. The Contractor will furnish new replacement parts and labor required to remove defective parts and reinstall replacement parts without cost to the Owner.

B. In addition, the Contractor is to warrant all steel and plastic (polyethylene) components and vinyl coating for a minimum period of 15 years from the date of Substantial Completion against structural failure due to corrosion, deterioration or manufacturing defects. Contractor will furnish new replacement parts and labor required to remove defective parts and reinstall replacement parts without cost to the Owner.

C. In addition, the Contractor is to warrant all aluminum posts, clamps, beams and caps for a period of 5 years from the date of Substantial Completion against structural failure due to corrosion, deterioration, or workmanship. New replacement parts are to be furnished for 5 years and labor required to remove defective parts and reinstall replacement parts will be furnished by the Contractor for the first 2 years without cost to Owner.

D. Contractor is to warrant paint systems for a period of one year from date of Substantial Completion against cracking and chipping. Contractor will furnish touch-up paint and labor without cost to the Owner. In addition, touch-up paint kits in colors to match the play structure must be available to the Owner for a period of not less than 10 years.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis-of-Design for freestanding and composite play equipment: Playworld Systems, Inc., Lewisburg, PA Subject to compliance with requirements, provide either the named product or a comparable product by one of the other manufacturers specified.

B. Comparable Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Landscape Structures, Inc., Delano, Minnesota
2. Playground Equipment.com, Greenfield, Indiana
3. GameTime, Inc., Fort Payne, Alabama
4. Little Tikes Commercial Play Systems, Inc., Monett, Missouri
5. Miracle Recreation Equipment Co.; a division of PlayPower, Inc., Monett, Missouri
6. Columbia Cascade, Portland, Oregon
7. Play & Park Structures, Chattanooga Tennessee

2.02 PLAYGROUND EQUIPMENT, GENERAL

A. Colors: As selected by Architect from manufacturer’s full range.

2.03 MATERIALS

A. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated and to comply with performance requirements for structural aluminum; mill finish or decorative baked-enamel powder-coat finish.
1. Extruded Bars, Profiles, and Tubes: ASTM B 221.
   a. Tubing: Minimum yield strength of 35,000 lbf/sq. in. and minimum tensile strength of 38,000 lbf/sq. in.
2. Cast Aluminum: ASTM B 179.

B. Steel: Comply with the following:
1. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M, hot-dip galvanized.
2. Steel Pipe: Standard-weight steel pipe complying with ASTM A 53 or electric-resistance-welded pipe complying with ASTM A 135, with a minimum yield strength of 30,000 lbf/sq. in.; hot-dip galvanized internally and externally.

3. Steel Mechanical Tubing: Cold-rolled, electric-resistance-welded carbon or alloy steel tubing complying with ASTM A 513 or steel tubing fabricated from steel complying with ASTM A 569/A 569M and complying with the dimensional tolerances in ASTM A 500; with a minimum yield strength of 40,000 lbf/sq. in. and a minimum tensile strength of 45,000 lbf/sq. in.; zinc coated internally and externally.
4. Steel Sheet: Commercial steel sheet complying with ASTM A 569/A 569M.
5. Galvanized Steel Sheet: Commercial steel sheet, hot-dip galvanized, complying with ASTM A 653/A 653M for not less than G60 coating designation; mill phosphatized.
6. Perforated Metal: From steel sheet not less than 0.0897-inch nominal thickness in manufacturer's standard perforation pattern.
7. Expanded Metal: Not acceptable.

C. 100 Percent Recycled Structural Plastic: All RSP components must comply with ASTM F1487.12 for structural integrity. Composite: 95 percent high density polyethelyne (HDPE), 4 percent polypropylene, .25 percent recyclostabilizer additive, .25 percent UV protectant additive. Structural bend resistance rate shall meet a maximum deflection rate of 1/240. Structural members shall meet a stress level of 2610.00 psi.

D. Stainless-Steel Sheet: Type 304, complying with ASTM A 240/A 240M or ASTM A 666; cold rolled and finished on exposed faces with No. 2B finish.

E. Opaque Plastic: Color impregnated, UV stabilized, and mold resistant.
1. Polyethylene: Fabricated from virgin plastic resin; rotationally molded LLDPE or MDPE with not less than 1/4-inch wall thickness or molded HDPE.
2. Recycled Polyethylene: Fabricated from not less than 96 percent recycled, purified, fractional-melt plastic resin for not less than 90 percent recycled postconsumer waste by weight content HDPE.

F. Transparent Plastic: Clear, colorless abrasion-resistant, UV-stabilized monolithic polycarbonate sheet, not less than 3/16 inch thick.

G. Swing Chain and Fittings: 4/0 or 5/0, welded-straight-link coil chain complying with ASTM A 467/A 467M, Class CS. PVC color coated with colors as selected by Architect from manufacturer's full range. With commercial-quality, hot-dip galvanized steel connectors and swing or ring hangars.

H. Post Caps: Cast aluminum or color-impregnated, UV-stabilized, mold-resistant polyethylene or polypropylene; color to match posts.

I. Platform Clamps and Hangers: Cast aluminum or not less than 0.105 inch nominal thickness, zinc-plated steel.

J. Hardware: Manufacturer’s standard, commercial-quality, corrosion-resistant, hot-dip galvanized steel and iron, stainless steel, or aluminum; secure, vandal-resistant design.
1. All hardware shall be assembled such that no protrusion hazards or sharp edges exist.

K. Fasteners: Manufacturer’s standard, corrosion-resistant, hot-dip galvanized or plated steel and iron, or stainless steel; permanently capped; theft resistant.

L. Drainage Fill: Washed, evenly graded mixture of crushed stone, or crushed or uncrushed gravel, ASTM D 448, coarse aggregate, Size No. 57, with 100 percent passing 1-1/2 inch sieve and not more than 5 percent passing No. 8 sieve.

M. Galvanizing: Where indicated for steel and iron components, provide the following protective zinc coating applied to components after fabrication.
   1. Hot-Dip Galvanizing: According to ASTM A 123/A 123M, ASTM A 153/A 153M, or ASTM A 924/A 924M.

N. Paint and PVC-Coat Finish: Comply with 16 CFR 1303 for limiting lead in paint.

2.04 FABRICATION

A. General: Provide sizes, strengths, thicknesses, wall thickness, and weights of components as indicated but not less than required to comply with structural performance and other requirements in ASTM F 1487. Factory drill components for field assembly. Unnecessary holes in components, not required for field assembly, are not permitted. Provide complete play structure, including supporting members and connections, means of access and egress, designated play surfaces, barriers, guardrails, handrails, handholds, and other components indicated or required to comply with referenced standards for equipment indicated.
   1. Composite Play Structure: Provide complete play structure, designed to be modular, linked, and expandable, forming one integral unit for more than one play activity.

B. Frame: Fabricate main-frame upright support posts from pipe or tubing with cross-section profile and dimensions as indicated in the Playground Equipment Schedule. Fabricate secondary frame members, bracing, and connections from either steel, aluminum, or structural plastic. Unless otherwise indicated, provide each pipe or tubing main-frame member with manufacturer's standard drainable bottom plate or support flange.

C. Wood frame is not an acceptable alternative for structural, play, or platform components.

D. Rung Ladders, Stepladders, Stairways, Ramps, Step Platforms, and Transfer Points: Provide complete means of access and egress, with evenly spaced treads and rungs, easily grasped handholds, and slip-resistant foot surfaces; fabricated from manufacturer's standard materials complying with requirements indicated and compatible with frame and play surfaces. Provide closed risers and protective barriers if indicated or required by referenced standard[s]. Comply with the following:
   1. Maximum Stairway Slope: Less than 35 degree incline.

E. Play Surfaces: Provide elevated decks, platforms, landings, walkways, ramps, and similar transitional play surfaces, designed and framed to withstand loads and allowing for drainage; fabricated from [steel expanded metal welded to welded steel frame] [perforated steel sheet with roll-formed edges] [perforated steel sheet reinforced by steel strip welded to underside, with roll-formed edges] steel frame].Fabricate units in manufacturer's standard modular sizes and shapes, to form assembled play surfaces of dimensions indicated on Drawings.
   1. Elevated Play Surfaces: Provide protective devices, completely surrounding play surface except for access openings, on all decks exceeding 20 inches in height above protective surfacing.
   2. Stepped Play Surfaces: Provide protective infill between all stepped platforms according to referenced standards and where indicated on Drawings.

F. Protective Barriers: Fabricated from [welded metal pipe or tubing with vertical bars, unless otherwise noted on Drawings] [sheet steel with openings for vision and ventilation] [metal-pipe or -tubing-framed, welded wire] [solid-plastic panels] [plastic panels with openings for vision and ventilation] [plastic panels with flat, circular window made from transparent plastic] [plastic panels with circular, three-dimensional bubble window made from transparent plastic] [vertical recycled polymer rails] and fabricated with any openings within the barrier and between the barrier and the play surface precluding passage of the torso probe according to CPSC No. 325. Provide barriers designed to minimize the possibility of climbing, free of hand and footholds, and configured to

completely surround the protected area except for access openings. Extend barriers to the following height above the protected elevated surface for use by age group indicated:
1. Two through Five Years: Top surfaces not less than 29 inches high.
2. Five through Twelve Years: Top surface not less than 38 inches high.

G. Guardrails: Provide guardrails configured to completely surround the protected area except for access openings. Extend guardrails over the following expanse above the protected elevated surface for use by age group indicated:
1. Two through Five Years: Top surface at not less than 29 inches and lower edge at not more than 23 inches.
2. Five through Twelve Years: Top surface at not less than 38 inches and lower edge at not more than 28 inches.

H. Handrails: OD between 0.095 to 1.55 inches. Provide handrails at height between the following dimensions for use by age group indicated:
1. Two through Five Years: 22 to 26 inches.
2. Five through Twelve Years: 22 to 38 inches.

I. Structural Plastic Panels, Tubes, Tunnels and Slide Chutes: Opaque plastic, unless transparent plastic is indicated.

J. Swing Seats: Fabricated from flexible molded EPDM or plastic, encapsulating a slash-resistant metal insert, securely attached at each end to [galvanized steel] [stainless-steel] end plates with galvanized steel fittings for attaching chains. Provide seat cushioned with soft edges, in style indicated, designed to accommodate one child at a time.

K. Equipment for Users Two through Five Years Old: Comply with the following:
1. Infant/Tot Swing Seats: Provide encircling, full-bucket-type swing seats designed to support a child on all sides with no danger of strangulation or entrapment when tested according to ASTM F 1487. Provide chains and fittings or other means to suspend seat so the underside of the occupied seat is no less than 24 inches above protective surfacing.
2. Swings: Design single-axis swings with pivot points for suspended swing seats at no greater than 8 feet above protective surfacing.
3. Overhead Fixed Horizontal Equipment: Design equipment with horizontal members spaced apart no more than 12 inches o.c.

L. Climbing Ropes, Cables, and Chains: Designed to be secured at both ends so length cannot be looped back on itself creating a loop with an inside perimeter greater than 5 inches. Ropes, cables, and chains with length 7 inches or less may be attached at one end only.

M. Flexible Climbers: Designed to securely connect flexible-climber components used as access to other components at both ends. For components with one end connected to ground level, provide flexible climbers designed with the anchoring connection to ground placed beneath the base of protective surfacing.

N. Steel and Iron Components: Galvanized, galvanized and color coated, or color coated. Bare metal steel or iron components are not permitted.
1. Color-Coated Pipe and Tubing for Main Frame: Galvanized before applying baked-enamel powder coating.
2. Play Surfaces: PVC- or baked-polyester-enamel powder-coated steel.
3. Color-Coated Pipe and Tubing for Component Frames: PVC-coat or baked-enamel powder coat applied to steel or galvanized steel.

2.05 CAST-IN-PLACE CONCRETE

A. Concrete Materials and Properties: Provide one of the following:

1. Comply with requirements in ACI 301 to produce normal-weight, air-entrained concrete with a minimum 28-day compressive strength of 3000 psi, 3 inch slump, and 1 inch maximum size aggregate.
2. Dry-packaged concrete mix complying with ASTM C 387 and mixed at the site and potable water, according to manufacturer’s written instructions, to produce normal-weight concrete with a minimum 28-day compressive strength of 3000 psi, 3 inch slump, and 1 inch maximum size aggregate.

2.06 METAL FINISHES, GENERAL

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating metal finishes.

B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.07 ALUMINUM FINISHES

A. Baked-Enamel Powder-Coat Finish: Manufacturer's standard, baked, polyester-TGIC, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness of 3 to 5 mils.

2.08 STEEL AND GALVANIZED STEEL FINISHES

A. Baked-Enamel Powder-Coat Finish: Manufacturer's standard, baked, polyester-TGIC, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness of 3 to 5 mils.

B. PVC Finish: Manufacturer's standard, UV-stabilized, mold-resistant, slip-resistant, matte-textured, dipped or sprayed-on, PVC-plastisol finish, with flame retardant added, complying with coating manufacturer's written instructions for pretreatment, application, and minimum dry film thickness of 80 mils.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, site surface and subgrade drainage, and other conditions affecting performance.
1. Do not begin installation before final grading required for placing protective surfacing is completed, unless otherwise permitted by Architect.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Verify locations of playground perimeter and pathways. Verify that playground layout and equipment locations comply with requirements for each type and component of equipment. Verify depth/thickness for all surfaces, finished grade, subbase, base, and finished elevations.

3.03 INSTALLATION, GENERAL

A. General: Comply with manufacturer's written installation instructions, unless more stringent requirements are indicated. Anchor playground equipment securely, positioned at locations and elevations indicated on Shop Drawings.
   1. Maximum Equipment Height: Coordinate installed heights of equipment and components with installation of protective surfacing. Set equipment so fall heights and elevation requirements for age group use and accessibility are within required limits. Verify that playground equipment elevations comply with requirements for each type and component of equipment.
   2. Install items in strict accordance with the manufacturer's written instructions and as indicated on the Drawings.
   3. There shall be no exposed bolt ends more than 2 threads, sharp edges, or protruding points remaining on any post or surface which could be accessible to children.

B. Post and Footing Excavation: Hand-excavate holes for posts and footings to dimensions, profile, spacing, and in locations indicated on Drawings, in firm, undisturbed or compacted subgrade soil. Level bearing surfaces with drainage fill to required elevation.
   1. General: Concrete footings are to be minimum 6 inches or as noted below resilient surface ("soft surface" – see Drawings). Coordinate installation of inserts with cast-in-place concrete work.

C. Post Setting: Set main-frame equipment posts in concrete footing. Protect portion of posts above footing from concrete splatter. Place concrete around posts and vibrate or tamp for consolidation. Verify that posts are set plumb or at the correct angle and are aligned and at the correct height and spacing. Hold posts in position during placement and finishing operations until concrete is sufficiently cured.
   1. Concrete Footings: Smooth top and shape to shed water.
   2. Coordinate depth of post with fall height requirements. Manufacturer shall indicate correct depth with a sticker or mark on the post. This shall indicate correct depth of play surfaces.

3.04 FIELD QUALITY CONTROL

A. Arrange for playground equipment manufacturer's technical personnel to inspect playground and playground equipment and components at final completion and to certify compliance with the following:
   1. CPSC No. 325.

B. Notify CM, Architect, and Owner 48 hours in advance of date and time of final inspection.

3.05 ADJUSTING

A. Adjust movable playground equipment components to operate smoothly, easily, and quietly, free from binding, warp, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range.

3.06 CLEANING

A. After completing playground equipment installation, inspect components. Remove spots, dirt, and debris. Repair damaged finishes to match original finish or replace component.

END OF SECTION 11 68 13

SECTION 321816 - PLAYGROUND SURFACE SYSTEMS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

A. Section Includes: Playground surface systems and accessories as follows:
   1. Loose fill system and accessories.
      a. Organic.
   2. Non-loose fill systems.
      a. 2-Layer Rubber Urethane Playground Surfacing System
      b. Protective rubber mat
   3. Geosynthetics.

B. Related Sections
   1. Section 31 10 00 – Site Clearing: For stripping, grubbing, removing topsoil, and protecting trees to remain.
   2. Section 31 20 00 – Earth Moving: For excavation, filling, and grading work, including compacted subgrades and subbase courses, and dewatering.
   3. Section 33 46 00 – Subdrainage: For landscape subdrainage system, including geosynthetics.
   4. Section 11 68 00 – Playground Equipment and Structures: For structures installed only over protective use zones, at appropriate fall heights.

1.03 DEFINITIONS

A. Critical Height: Standard measure of shock attenuation. According to CPSC No. 325, this means “the fall heights below which a life-threatening head injury would not be expected to occur.”

B. Fall Height: According to ASTM F 1487, this means “the vertical distance between a designated play surface and the protective surfacing beneath it.” The fall height of playground equipment should not exceed the critical height of the protective surfacing beneath it.

C. SBR: Styrene butadiene rubber.

D. Use Zone: According to ASTM F 1487, this means “the area beneath and immediately adjacent to a play structure that is designated for unrestricted circulation around the equipment and on whose surface it is predicted that a user would land when falling from or exiting the equipment.”

1.04 PERFORMANCE REQUIREMENTS

A. Impact Attenuation: According to ASTM F 1292.

B. Accessibility of Surface Systems: According to ASTM F 1951.

C. Minimum Characteristics for Organic Loose-Fill Surfaces: According to ASTM F 2075.

D. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension.

E. ASTM D624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber

and Thermoplastic Elastomers.

F. ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine.

G. ASTM D2859 Standard Test Method for Flammability of Finished Textile Floor Covering Materials.

H. ASTM E303 Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester.

1.05 SUBMITTALS

A. Color Samples for Verification: For the following products, for each type of exposed finish required, prepared on samples of size indicated below and of same thickness and material indicated for the Work. If finishes involve normal color and texture variations, include sample sets showing the full range of variations expected.
1. Minimum 6 inch by 6 inch square sample of non-loose fill surfacing.

B. Quality Assurance/Control Submittals
1. Product Data: For each type of product indicated. Include material descriptions and construction details for each component of playground surface system.
2. Installer Certificates: Signed by manufacturer certifying that installers comply with requirements and qualification requirements.
3. Product Certificates: Signed by manufacturers of playground surface systems certifying that protective surfacing furnished comply with requirements.
4. Coordination Drawings: Layout plans and elevations drawn to scale and coordinating installation of playground surface systems with playground equipment. Show playground equipment locations, use zones, fall heights, extent of protective surfacing, and critical heights.
5. Material Certificates: Signed by manufacturers certifying that each of the following items complies with requirements:
a. Hardwood fiber surfacing.
b. Protective Rubber Mat
c. 2-Layer Rubber Urethane Playground Surfacing System
6. Field quality-control test reports.

C. Closeout Submittals
1. Maintenance Data: For playground surface system to include in maintenance manuals specified in Division 1.
2. Warranty: Special warranty specified in this Section.

1.06 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer who has specialized in installing work similar in material, design, and extent to that indicated for this Project and whose work has resulted in installations with a record of successful in-service performance.
1. Engage an installer who employs workers trained and approved by playground surface system manufacturer to install manufacturer’s products.

B. Standards and Guidelines: Provide playground surface systems complying with applicable provisions of the following, unless more stringent provisions are indicated:
1. CPSC No. 325, “Handbook for Public Playground Safety”; ASTM F 1292; and ASTM F 1487.

C. Testing Agency Qualifications: An independent agency qualified according to ANSI Z34.1 for testing indicated.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver manufactured materials in original packages with seals unbroken and bearing manufacturer's labels indicating brand name and directions for storing.

B. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

C. Store manufactured materials in a clean, dry location, protected from the weather and deterioration, and complying with manufacturer's written instructions for minimum and maximum temperature requirements for storage.

D. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at a minimum temperature of 40 degrees F (4 degrees C) and a maximum temperature of 90 degrees F (32 degrees C).

E. Store units on flat surfaces.

1.08 PROJECT CONDITIONS

A. Environmental Limitations: Do not apply playground surface system materials or components over wet, frozen, or excessively damp substrates if prohibited by manufacturer's written instructions or warranty requirements.

B. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit playground surface system to be performed according to manufacturer's written instructions or warranty requirements.

C. Field Measurements: Where playground surface system is indicated to fit to other construction, verify dimensions of other construction by field measurements.

D. Environmental Requirements: Install surfacing system when minimum ambient temperature is 40 degrees F (1 degree C) and maximum ambient temperature is 90 degrees F (32 degrees C). Do not install in steady or heavy rain.

1.09 SEQUENCING

A. Coordinate construction of playground surface systems with installation of playground equipment, including accurate use zones and fall heights, specified in Section 116800 – Playground Equipment.

1.10 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of playground surface system that fails in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Reduction in impact attenuation.
      b. Deterioration of surface and other materials beyond normal weathering.
   2. Warranty Period: Seven years from date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Loose-Fill Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. Engineered Wood Fibers
      a. Fibar System 300; Fibar, Inc., Armonk, New York
      b. Sof'Fall; Sof'Fall, Inc., Draper, Utah

c. Wood Carpet; Zeager Bros, Inc., Middletown, Pennsylvania
d. Kids Karpet; Garick, Cleveland, Ohio
e. GT Impax Fiber; GameTime, Fort Payne. Alabama
f. Secure-Play Hardwood Surface, Service Supply, Columbus, OH

B. Poured-in-Place Playground Surfacing Systems Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Poured-in-Place Playground Surfacing Systems
a. Perma-Play 2-Layer Poured-In-Place playground surface w/Aliphatic Urethane – Pro-Techs Surfacing, LLC Copley, Ohio
b. Poured in Place Rubber - GameTime, Fort Payne. Alabama
c. Poured-In-Place 2-Layer Rubber – Playground Equipment, Greenfield, Indiana

C. Products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and functional qualities of the specified product. The "Substitution Request Form" and complete technical data for evaluation must accompany request for A/E's approval All materials for evaluation must be received by the Project Manager and Specification Department at least 10 days prior to bid due date. Additional approved manufacturers will be issued by Addendum.

2.02 PLAYGROUND SURFACE SYSTEMS, GENERAL

A. Accessibility: Provide playground surface systems determined to be accessible when tested according to ASTM PS 83 and designed to comply with requirements for an accessible route as recommended by U.S. Architectural & Transportation Barriers Compliance Board's "ADA Accessibility Guidelines for Buildings and Facilities (ADAAG)".

2.03 PLAYGROUND SURFACE SYSTEMS (LOOSE FILL)

A. General: Provide playground surface system consisting of particulate loose fill materials indicated, free of deleterious materials.

B. Organic Wood-Based Materials: Consisting of the following:
1. Engineered Wood Fibers: Random-sized wood fibers, in manufacturer's standard fiber size approximately 10 times longer than wide; containing no bark, leaves, twigs, or foreign or toxic materials; graded according to manufacturer's standard specification for material consistency for playground surfaces. Provide the following minimum depth of material with critical height indicated for coordination with fall heights not exceeding critical height.
a. Compressed Material Depth and Critical Height: As indicated on Drawings. (Minimum 12 inch compressed depth; 18 inch compressed depth at base of swings and slides).

2.04 NON-LOOSE FILL PLAYGROUND SURFACE SYSTEMS

A. 2-Layer rubber-urethane Playground Surfacing system Performance Requirements
1. Shock Attenuation (ASTM F1292)
a. Gmax: Less than 200
b. Head Injury Criteria: 1000 or less
2. Flammability (ASTM D2859): Pass
3. Tensile Strength (ASTM D412): 96.4 psi
4. Tear Resistance (ASTM D624): 37.3 psi
5. Water Permeability: 417.9 gal/yd2/minute
6. Accessibility: Comply with requirements of ASTM 1951-14
a. Straight Baseline Propulsion – 5.35 lbs.Work/ft-Force
b. Turning Baseline Propulsion – 7.23 lbs. Work/ft-Force
7. Poured-in-place Primer: Urethane
8. Poured-in-place Basemat:

a. Material: blend of 100% recycled SBR (stryrene butadiene rubber) and Urethane
b. Thickness per detail on drawings
c. Formulation Components: Blend of strand and granular material.

9. Poured-In-Place Top Surface:
a. Material: Blend of recycled EPDM (ethylene propylene diene monomer) rubber and aliphatic urethane binder.
b. Thickness: Nominal 1/2" (12.7 mm), minimum 3/8" (9.5 mm), maximum 5/8" (15.9 mm).
c. Color to be selected by owner

10. Dry Static Coefficient of Friction (ASTM D2047): 0.7scof.
11. Wet Static Coefficient of Friction (ASTM D2047): 0.8scof.
12. Dry Skid Resistance (ASTM E303):
a. Initial Dry: 100.8 BPN Avg
b. 90-Degree Dry: 103.0 BPN Avg.
13. Wet Skid Resistance (ASTM E303):
a. Initial Dry: 49.5 BPN Avg.
b. 90-Degree Wet: 50.8 BPN Avg.
14. Mixes (Required mix proportions by weight)
a. Buffing – 16% polyurethane, 100# rubber.
b. Wear Course – 18 – 22% polyurethane, 110# rubber.

2.05 GEOSYNTHETICS

A. Drainage/Separation Fabric: Nonwoven needle-punched geotextile, specifically manufactured as a drainage geotextile; made from polyolefins or polyesters; complying with the following minimum properties determined according to ASTM D 4759 and referenced standard test methods:
1. Weight: 4 oz./sq.yd. according to ASTM D 5261.
2. Water Flow Rate: 100 gpm per sq. ft. according to ASTM D 4491.

B. Weed-Control Barrier: Composite fabric geotextile consisting of woven, needle-punched polypropylene substrate bonded to a nonwoven polypropylene fabric, weighing not less than 4.8 oz./sq.yd.

2.06 DRAINAGE SYSTEM

A. Drainage Stone: Clean, washed, angular stone of uniform size, 1/2-inch diameter, plus or minus. Install below wood fiber in a minimum 4-inch depth.

B. Underdrain Tubing: 4-inch diameter PVC, perforated tubing.

2.07 LOOSE FILL ACCESSORIES

A. Edgings: Provide concrete edgings and containment curbs as indicated on plans.

B. Protective rubber mat (stabilizing mats) are to meet requirements of an 8-foot critical fall height and are to be installed at the base of each slide and centered under each swing seat. Locate tiles on top of the geotextile and below the 18-inch deep wood fiber surfacing. Provide in minimum four foot square area below slide exit and in 6 foot wide by length of swing beam.
1. Stabilizing mats are to conform to ASTM F1292-93 conforming to shock alteration values of less than 200 G-max and less than 1000 HIC for critical height of 8 feet. Shop drawing submittals are to include documentation of test data as done by an independent testing laboratory. Product is to be warranted against defects in material and workmanship and shall include conformance to ASTM F1292-93 during the warranty period of 5 years. Mats (materials and installation) are to be warranted against defects caused by peeling or raveling of shredded rubber or granules; and defects that could cause a child to trip.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions with Installer present, for compliance with requirements for subgrade and substrate conditions, for compliance with playground surface system manufacturer's requirements, and for other conditions affecting performance.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Stake locations of playground perimeter, playground equipment, use zones, and pathways. Clearly indicate locations of utilities, lawn sprinkler system, subgrade drainage systems, and underground structures.

B. General: Prepare fill, patch, clean, remove high spots and ridges, and remove incompatible coatings from substrates to receive surfacing products according to playground surface system manufacturer's written instructions. Verify that substrates are sound without high spots, ridges, holes, and depressions.

3.03 INSTALLATION, GENERAL

A. General: Comply with playground surface system manufacturer's written installation instructions. Install playground surface system over area and in thickness indicated and as required to comply with specified requirements for impact-attenuation performance and, where indicated, for accessibility.

3.04 GEOSYNTHETIC INSTALLATION

A. General: Install geosynthetics according to playground surface system manufacturer's and geosynthetic manufacturer's most stringent written instructions, and as follows:
   1. Geotextiles: Completely cover area indicated, overlapping lapping edges a minimum of 8 inches with manufacturer's standard treatment for seams.
   2. Layer under hardwood fiber surface system.
   3. Layer under and contain drainage stone.
   4. As indicated on Drawings.

3.05 INSTALLATION OF LOOSE FILL PLAYGROUND SURFACE SYSTEMS

A. Loose Fill: Place playground surfacing materials in excavations promptly, including manufacturer's standard amount of excess material for compacting mechanically to required elevations, but not before the following have occurred:
   1. Completion of subgrade construction, including drainage/separation geosynthetic layer including weed barrier.
   2. Installation of playground equipment support posts and foundations.
   3. Installation of containment edgings.
   4. Removal of obstructions, trash, debris, and waste fill materials.

B. Stabilizing Mats: Coordinate installation of mat anchoring system and mats with placing and compacting of fill.

C. Compacting and Grading: Uniformly compact and grade areas according to manufacturer's written instructions to an even surface free from irregular surface changes and to cross sections, lines, and elevations indicated. Unless otherwise indicated, provide a smooth transition between adjacent existing grades and new grades.

D. Finish Grading: Hand rake to a smooth finished surface and to required elevations with zero tolerance.

3.06 INSTALLATION OF NON-LOOSE FILL PLAYGROUND SURFACE SYSTEMS

A. Poured-In-Place Playground Surfacing: Comply with the instructions and recommendations of the playground surfacing manufacturer.
   1. Surface Preparation: Using a brush or short nap roller, apply primer to the substrate perimeter and any adjacent vertical barriers such as playground equipment support legs, curbs or slabs that will contact the surfacing system at the rate of 300 ft2/gal.
   2. Basemat Installation:
      a. Using screeds and hand trowels, install the basemat at a consistent density of 29 pounds, 1 ounce per cubic foot (466 kg/m3) to the specified thickness.
      b. Allow basemat to cure for sufficient time so that indentations are not left in the basemat from applicator foot traffic or equipment.
      c. Do not allow foot traffic or use of the basemat surface until it is sufficiently cured.
   3. Primer Application: Using a brush or short nap roller, apply primer to the basemat perimeter and any adjacent vertical barriers such as playground equipment support legs, curbs or slabs that will contact the surfacing system at the rate of 300 ft2/gal.
   4. Top Surface Installation:
      a. Using a hand trowel, install top surface at a consistent density of 58 pounds, 9 ounces per cubic foot to a nominal thickness of 1/2".
      b. Allow top surface to cure for a minimum of 48 hours.
      c. At the end of the minimum curing period, verify that the top surface is sufficiently dry and firm to allow foot traffic and use without damage to the surface.
      d. Do not allow foot traffic or use of the surface until it is sufficiently cured.

3.07 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.

B. Testing Services: Testing and inspecting of completed applications of playground surface system shall take place according to ASTM F 1292.

C. Remove and replace applications of playground surface system where test results indicate that it does not comply with requirements.

3.08 CLEANING AND PROTECTION

A. Loose Fill Systems: Protect newly graded areas from traffic and erosion. Keep free of trash and debris. Replenish with matching material, repair, and reestablish densities and finish elevations where surfaces become eroded, rutted, or settled or where they lose compaction and depth, until date of Substantial Completion.

B. Non-Loose Fill Systems: Prevent traffic over system for not less than 48 hours after installation. Protect playground surface system from damage and wear during the remainder of construction period. Clean playground surface system after time period recommended in writing by playground surface system manufacturer but not more than 4 days before dates scheduled for inspections intended to establish date of Substantial Completion. Use cleaning materials and procedures recommended in writing by playground surface system manufacturer.

END OF SECTION 32 18 16

FANNING HOWEY

PRE-BID REQUEST FOR INTERPRETATION/CLARIFICATION LOG				
RFI#	**Date Received**	**Request for Interpretation Item**	**Dwg./Spec.**	**Response**
1	6/30/25	1. Sheet S-104 shows several Exterior Trench Footings denoted 'ETF-5', however in reviewing the Exterior Trench Footing Schedule on Sheet S-301 (Foundation Details), no 'ETF-5' is shown. Can this ETF type be shown in the Schedule in a forthcoming addendum to ensure bidding contractors can account for all work and accessories associated with this ETF type? 2. Sheet S-104 also shows an Exterior Trench Footing denoted as 'ETF-2.5A'. While there is an 'ETF-2.5' shown on the Exterior Trench Footing Schedule on Sheet S-301, there is not an 'ETF-2.5A' shown within the schedule. Can the design team please advise as to what the added 'A' entails?		1. ETF-5 will be added to schedule at 2/S-301. 2. ETF-2.5A can be found at 15/S-301.
2	7/1/25	Linear Metal Ceiling (LMC) is noted as Unperforated on IN601 List of Finishes. Spec 095423 Linear Metal Ceilings indicates Microperforated. What is correct ?		Refer to Addendum No. 1
3	6/30/25	1. Playground equipment - The plans (G1-05) call out equipment from Midstates Recreation but then give no details on any of the equipment. The specs call out Burke as the basis of design, but again with no details on any of the equipment. We handle Burke equipment but I can't quote anything (or submit a substitution request as an equal) without any equipment details. 2. Shade Sails - Likewise the plans note several shade sails but there is nothing on the plans or specs with any details on these 3. Playground surfacing - plans show poured in place rubber surfacing and playground turf with manufacturers listed on G1-05. Specs then list something different on manufacturers with no information on the turf.		Refer to Addendum No. 1.
4	7/1/25	I understand the solar panel provider is responsible for their support rail and attachment however the Roofing Contractor will need to quantify and qualify their associated work.		Refer to Addendum No. 1. Mounting to shingle roof responsibility of the Photovoltaic Collector provider/installer.

5	7/1/25	On the luminaire schedule (E-601), the 'CVLX' does not have a description or manufacture catalog #. Is it possible to receive information on this light? It looks like it is just a surface mounted linear fixture, but a catalog # would help get an accurate price.		Refer to Addendum No. 1.
6	7/2/25	1. While no specification for Glazing, aside from the Decorative Glass Glazing specification, is included within the Bid Category #01: General Trades scope of work, there seems to be a lack of clarity regarding whether door lite and side lite glass is provided/installed by Bid Category #01 or Bid Category #07. Could the design team or construction manager please advise as to who is responsible for both the supply and installation of the door lite and side lite glass within all frame types? This scope question also involves any associated sealants. 2. Specification 12 93 00, Section 2.06 states that all site furnishing benches, tables, and trash receptacles are to be provided as indicated on the drawings. In reviewing the drawings, there do not appear to be clear basis-of-design products or details shown. Could the design team and construction manager please advise as to what manufacturer and models, in addition to quantities, are to be used in bidding for all of these furnishings? 3. Keynote #19 on Site Plan Sheets such as Sheet G1.01 call out Detail X on Sheet G4-00 for the bike rack site furnishings. In reviewing the Sheet, there does not appear to be a Detail X. Could a Detail X please be provided for clarity on pricing the bike rack construction? 4. The Multiple Contract Summary, in both Bid Category #01 and Bid Category #02, states that the General Trades and Asphalt Paving contractors are to coordinate on the cement stabilization process to verify subgrade for the parking lot and drives. We are presenting three (3) questions related to this scope: a. Which package bears the responsibility of completing the cement stabilization process? b. While the 01 12 00 Multiple Contract Summary uses the term "Cement Stabilization", both		1. N/A 2. Refer to forthcoming Addendum 3. Refer to forthcoming Addendum 4.a. N/A 4.b. Refer to forthcoming Addendum 4.c. Refer to forthcoming Addendum

		Specification 31 20 00, Section 2.3 and Structural General Notes Sheet S-001, Note 17 state a “Lime By-Product” are to be used for soil stabilization. Could the design team and construction manager please advise as to whether lime or cement is required for stabilization on this project? This information is contradictory and the price difference/schedule disparity between applying these two products could be substantial. c. Based on the language of Note 17 on Sheet S-001, should all bidding contractors assume soil stabilization (whether with lime by-product or cement based on the previous question) throughout all drives, parking lots, and other paved areas? This note could be interpreted in a multitude of ways and we seek to ensure that all contractors are bidding this scope in alignment for a fair, competitive bidding process.		
7	7/2/25	1. Spec Section 12 93 00 – Site Furnishings & Amenities a. This spec section seems to be way off from what is shown in the drawings. The spec has athletic equipment, metal arched roof structure, benches, brick dust, etc. but nothing is shown on the drawings. 2. Spec Section 11 68 13 – Playground Equipment & Structures a. There are multiple playground equipment manufacturers specified as equal to the basis of design (Burke); however the specs nor the drawings provide equipment types/models/etc. that others can price off of. G1-05 just points to the items as “Playground Equipment”. Can more information be provided so other specified manufacturers can bid?		1. Spec section will be revised as part of the upcoming addendum. 2. Spec section will be revised as part of the upcoming addendum 1.



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NORTH

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GENERAL NOTES

1. SEE DRAWING C001 FOR GENERAL NOTES AND ADDITIONAL LEGEND.
2. TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY THE SURVEYOR. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE PROJECT AREA INCLUDING UNDERGROUND UTILITY CONDITIONS, LOCATION AND DEPTH PRIOR TO ANY OTHER SITE CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.

1 SITE KEYNOTES

1. CONCRETE PAVEMENT - SEE DETAIL F/G4-00
2. CONCRETE CURB - SEE DETAIL L/G4-00
3. CONCRETE SIDEWALK - SEE DETAIL E/G4-00
4. CONCRETE CURB & WALK - SEE DETAIL H/G4-00
5. ADA ACCESSIBLE RAMP (TYPE 1) - SEE DETAIL A/G4-01
6. ADA ACCESSIBLE RAMP (TYPE 2) - SEE DETAIL B/G4-01
7. ADA ACCESSIBLE RAMP (TYPE 3) - SEE DETAIL C/G4-01
8. MEDIUM DUTY ASPHALT PAVEMENT - SEE DETAIL A/G4-00
9. HEAVY DUTY ASPHALT PAVEMENT - SEE DETAIL B/G4-00
10. CONCRETE PARKING BUMPER - SEE DETAIL E/G4-01
11. 4" PAVEMENT MARKING (WHITE PAINT)
12. 4" PAVEMENT MARKING (YELLOW PAINT)
13. PAINTED A.D.A. SYMBOL - SEE DETAIL J/G4-01
14. 6" DIA. STEEL PIPE CONCRETE FILLED BOLLARDS - SEE DETAIL L/G4-01
15. 6' DECORATIVE ALUMINUM FENCE - SEE DETAIL N/G4-01
16. 6' STAMPED METAL PANEL FENCE - SEE DETAIL R/G4-01
17. TRAFFIC CONTROL GATE - SEE DETAIL S/G4-01
18. PLAYGROUND AREAS - SEE ENLARGED PLANS ON SHEET G1-05
19. BICYCLE RACK - SEE DETAIL T/G4-00
20. RIVER STONE MAINTENANCE STRIP
21. 6" x 6" WOOD BARRIER POST - SEE DETAIL M/G4-01
22. RELOCATE EXISTING SIGN AND FLASHER
23. NEW STREET SIGN
24. FLAGPOLE - SEE DETAIL D/G4-01
25. A.D.A. PARKING SIGN - SEE DETAIL K/G4-01
26. DECORATIVE ALUMINUM GATE w/3' INSET - SEE DETAILS P/G4-01
27. DECORATIVE ALUMINUM GATE - SEE DETAIL P/G4-01 (SIM.)
28. DECORATIVE ALUMINUM GATE (UTILITY) - SEE DETAIL T/G4-01
29. SITE FURNISHING - BENCH - SEE DETAIL R/G4-00
30. SITE FURNISHING - TRASH RECEPTACLE - SEE DETAIL S/G4-00

1

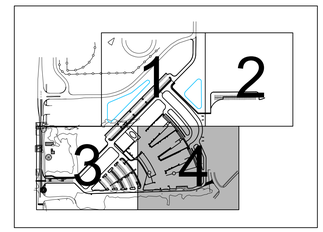
PROPOSED SITE LEGEND

- BUILDING
- CONCRETE SIDEWALK/PAVEMENT
- RIGHT OF WAY ASPHALT PAVEMENT - SEE DETAIL C/G4-00
- HEAVY DUTY ASPHALT PAVEMENT - SEE DETAIL B/G4-00
- LIGHT DUTY ASPHALT PAVEMENT - SEE DETAIL A/G4-00
- HEAVY DUTY GRASS MAT PAVERS - SEE DETAIL X/G4-00

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Call 48 hours or 2 working days before you dig.
It's Fast, It's Easy and It's the Law in the state of Indiana!

CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.



KEYPLAN

ZIONSVILLE CS NEW EARLY LEARNING CENTER / EDUCATIONAL SERVICES CENTER

S 700 E AND E 550 S
ZIONSVILLE, INDIANA 46077

ZIONSVILLE COMMUNITY SCHOOLS

ZIONSVILLE COMMUNITY SCHOOLS

ARCHITECT

FANNING HOWEY

317.848.0966 WWW.FHAI.COM
350 E NEW YORK ST #300, INDIANAPOLIS, IN 46204

CONSULTANT

TLF

TLF, INC.
3901 West 86th Street, Suite 200
Indianapolis, Indiana 46268
Phone: 317-334-1500
Fax: 317-334-1552
TLF Job No: 2024-206

ISSUED FOR BID

KRISTOPHER S. GRANT REGISTERED No. PE10606090 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: DBS

PROJECT NUMBER: 224033.00 (TLF JOB #2024-206)

PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	07.09.2025

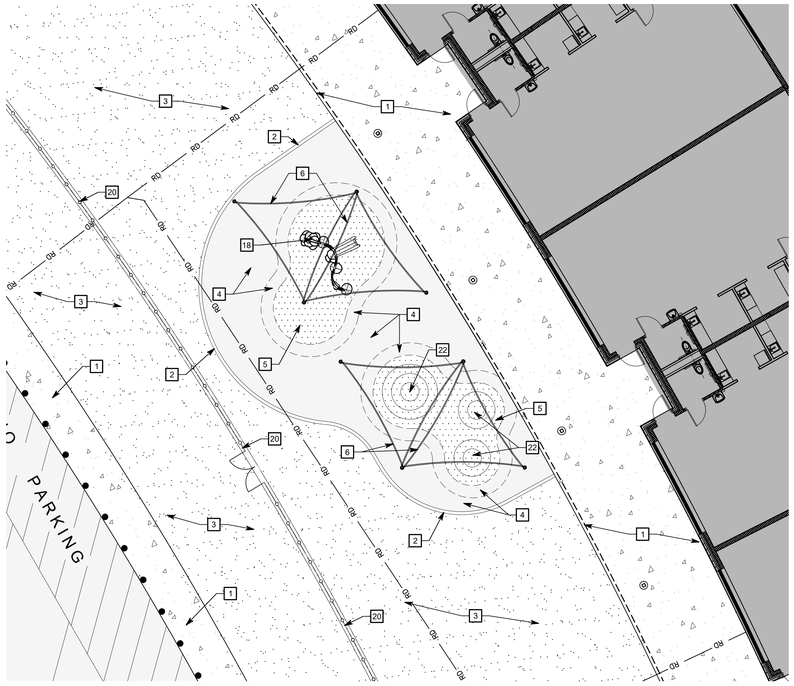
SITE PLAN - AREA 4

G1-04

Drawing Path: P:\2024\2060\Civil\Active\4 - 2024-206 - G1-00 to G1-04 - Site Plans.dwg
Plotted By: dschnur Date of Plot: 7/7/25 - 4:15pm Last Edited: 7/7/25 - 1:32pm



PRESCHOOL PLAYGROUND ENLARGEMENT (TYPICAL)



DAYCARE PLAYGROUND ENLARGEMENT





GENERAL NOTES

1. SEE DRAWING GD0.01 FOR GENERAL NOTES AND ADDITIONAL LEGEND.
2. TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY THE SURVEYOR. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE PROJECT AREA INCLUDING UNDERGROUND UTILITY CONDITIONS, LOCATION AND DEPTH PRIOR TO ANY OTHER SITE CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.
4. PLAYGROUND EQUIPMENT AVAILABLE FROM MIDSTATES RECREATION.

1 SITE KEYNOTES

1. CONCRETE SIDEWALK
2. 6" WIDE X 18" DEEP CONCRETE STRAIGHT CURB
3. SEEDED LAWN
4. PROTECHS (BASIS OF DESIGN) ALIPHATIC POURED IN PLACE PLAY SURFACE (DEPTH PER PLAYGROUND MANUFACTURER REQUIREMENTS) OVER AGGREGATE BASE WITH UNDERDRAINS
5. PTS "PERMA" SYNTHETIC TURF SYSTEM WITH SAND INFILL (DEPTH PER PLAYGROUND MANUFACTURER REQUIREMENTS) OVER AGGREGATE BASE WITH UNDERDRAINS
6. 20' SHADE CANOPY - PLAYWORLD ZZPM9699
7. BUNNY - PLAYWORLD ZZTP2104M
8. SMALL CABASA - PLAYWORLD ZZXX0660
9. 5 CONGAS - PLAYWORLD ZZXX0665
10. GARDEN SENSORY WALL w/MAGIC MUSIC INSERT - PLAYWORLD ZZXX0260, ZZXX0818
11. BENCH BOULDER - PLAYWORLD ZZBD0012
12. PICNIC BOULDER - PLAYWORLD ZZBD0013
13. SINGLE POST SWINGS w/SEATBELT - PLAYWORLD ZZXX0260, ZZXX0818
14. PLAYWORLD CUSTOM 2-5 STRUCTURE w/5" POSTS
15. ADA BUGS PANEL - PLAYWORLD ZZPM4408
16. 12" PILLARS PLAYWORLD ZZUN8801
17. LOG CRAWL - PLAYWORLD ZZUN8807
18. FIRST PLAY #5 - PLAYWORLD FP-252
19. PLAYWORLD CUSTOM 0-2 STRUCTURE w/3.5" POSTS
20. MOWSTRIP AT FENCE
21. 4" WASHED RIVER ROCK BED
22. MOUND

PROPOSED SITE LEGEND

- BUILDING
- SEEDED LAWN
- ALIPHATIC POURED IN PLACE PLAY SURFACE
- SYNTHETIC TURF
- WASHED RIVER ROCK

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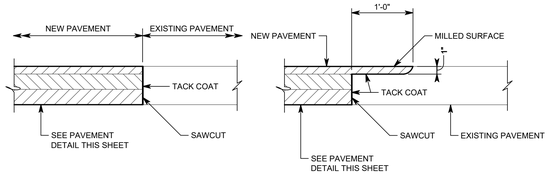
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	07.09.2025

SITE PLAN - PLAYGROUNDS

G1-05

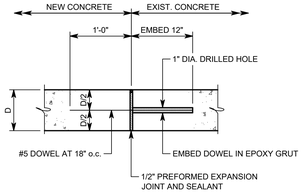
Drawing Path: P:\2024\2060_CAD_Civil_Active\4 - 2024-206 - G1-05 - Playground Plans.dwg
Plotted By: dschnur Date of Plot: 7/7/25 - 4:17pm Last Edited: 7/7/25 - 3:59pm

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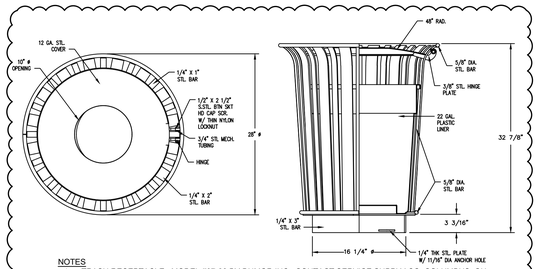
PAVEMENT INTERFACE - DETAIL N

1" = 1'-0"



CONCRETE CONNECTION - DETAIL J

1" = 1'-0"

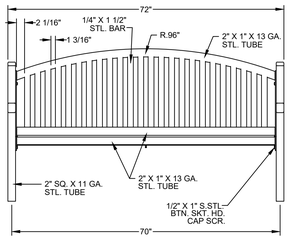


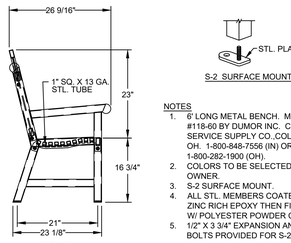
NOTES

1. TRASH RECEPTACLE. MODEL #87-22 BY DUMOR INC. CONTACT SERVICE SUPPLY CO.,COLUMBUS, OH. 1-800-848-7556 (IN) OR 1-800-282-1900 (OH).
2. COLORS TO BE SELECTED BY OWNER.
3. SURFACE MOUNT.
4. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
5. 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.

TRASH RECEPTACLE - DETAIL R

NO SCALE





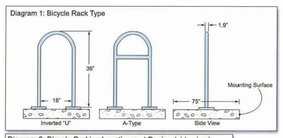
END VIEW

NOTES

1. 6' LONG METAL BENCH. MODEL #118-60 BY DUMOR INC. CONTACT SERVICE SUPPLY CO.,COLUMBUS, OH. 1-800-848-7556 (IN) OR 1-800-282-1900 (OH).
2. COLORS TO BE SELECTED BY OWNER.
3. S-2 SURFACE MOUNT.
4. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
5. 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED FOR S-2 OPTION.

6' LONG METAL BENCH - DETAIL S

NO SCALE

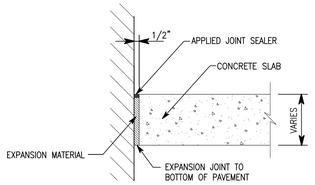


NOTE:

- BIKE RACKS TO BE APEX INVERTED U BIKE RACK AVAILABLE FROM SITESCAPES (888-331-9464) P.O. BOX 22326 LINCOLN, NE 68542. COLOR TO BE SELECTED BY OWNER.
- BIKE RACKS TO BE SURFACE MOUNTED.

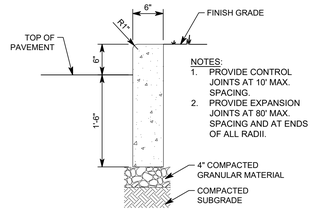
BIKE RACK - DETAIL T

NO SCALE



ISOLATION JOINT - DETAIL K

NO SCALE



NOTES:

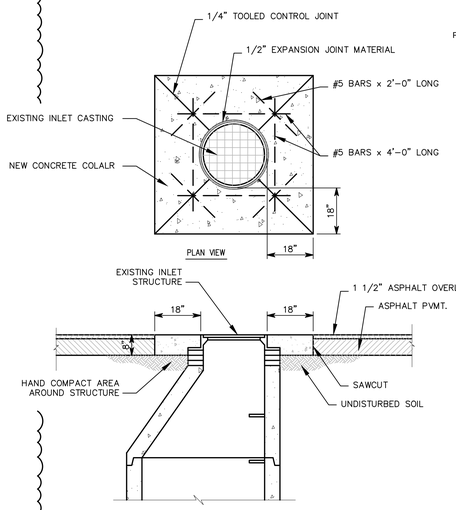
1. PROVIDE CONTROL JOINTS AT 10' MAX. SPACING.
2. PROVIDE EXPANSION JOINTS AT 80' MAX. SPACING AND AT ENDS OF ALL RADII.

STRAIGHT CURB - DETAIL L

1" = 1'-0"

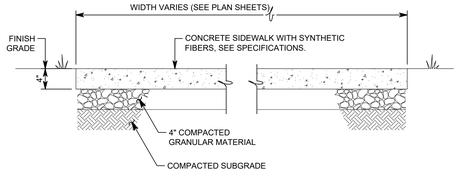
CURB JOINT - DETAIL M

NO SCALE



CONCRETE STORM INLET COLLAR - DETAIL P

NONE

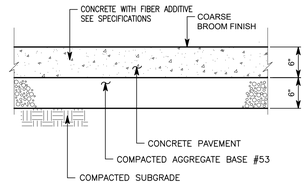


NOTES:

1. CONTROL JOINTS, EXPANSION JOINTS AND EDGES OF SIDEWALK SHALL BE HAND-TOOLED AFTER EACH FINISHING OPERATION.
2. PROVIDE EXPANSION JOINT AT INTERSECTION WITH ANOTHER SIDEWALK, BETWEEN WALKS AND BUILDINGS AND AT SUCH OTHER POINTS AS INDICATED ON THE DRAWINGS.
3. SIDEWALK SHALL HAVE 1/2" EXP. JTS. @ 48' MAX. & CONTROL JOINTS @ 6' MAX.

CONCRETE SIDEWALK WITH FIBER - DETAIL E

1" = 1'-0"

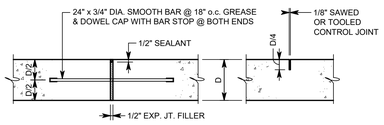


NOTES:

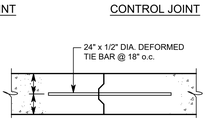
1. CONTROL JOINTS, EXPANSION JOINTS AND EDGES OF SIDEWALK SHALL BE HAND-TOOLED AFTER EACH FINISHING OPERATION.
2. PROVIDE EXPANSION JOINT AT INTERSECTION WITH ANOTHER SIDEWALK, BETWEEN WALKS AND BUILDINGS AND AT SUCH OTHER POINTS AS INDICATED ON THE DRAWINGS.
3. PAVEMENT SHALL HAVE 1/2" EXPANSION JOINTS AT 80' MAX. AND CONTROL JOINTS AT 15' MAX.
4. FIBER ADDITIVE: VIRGIN NYLON FIBERS. 3/4" LENGTH, NYCON BY NYCON INC., OR FORTA NYLON BY FORTA CORPORATION, ADDED AT THE BATCH PLANT AT 1 LB. PER CU. YD. OF CONCRETE.

CONCRETE PAVEMENT WITH FIBER- DETAIL F

SCALE: 1" = 1'-0"



EXPANSION JOINT CONTROL JOINT

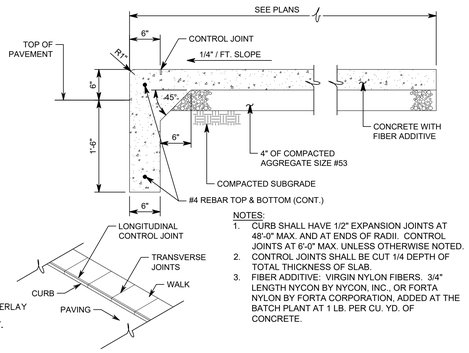


NOTE:
CONSTRUCT EXPANSION JOINTS AT 40' MAX. AND CONTROL JOINTS AT 2.5 x THICKNESS OF SLAB EXPRESSED IN FEET, UNLESS OTHERWISE NOTED.

LONGITUDINAL JOINT

CONCRETE JOINTS - DETAIL G

1" = 1'-0"

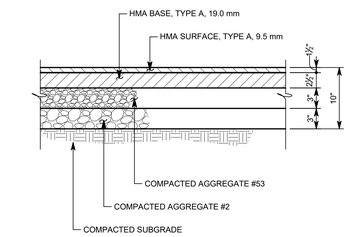


NOTES:

1. CURB SHALL HAVE 1/2" EXPANSION JOINTS AT 48'-0" MAX. AND AT ENDS OF RADII. CONTROL JOINTS AT 6'-0" MAX. UNLESS OTHERWISE NOTED.
2. CONTROL JOINTS SHALL BE CUT 1/4 DEPTH OF TOTAL THICKNESS OF SLAB.
3. FIBER ADDITIVE: VIRGIN NYLON FIBERS. 3/4" LENGTH NYCON BY NYCON, INC., OR FORTA NYLON BY FORTA CORPORATION, ADDED AT THE BATCH PLANT AT 1 LB. PER CU. YD. OF CONCRETE.

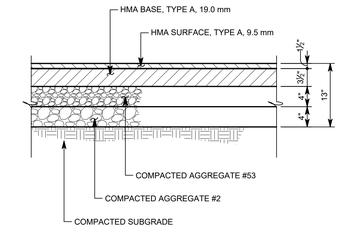
MONOLITHIC CURB AND WALK - DETAIL H

1" = 1'-0" (18" CURB)



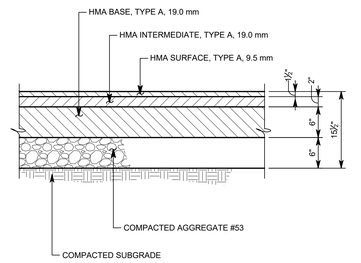
STANDARD DUTY H.A.C. PAVEMENT - DETAIL A

1" = 1'-0"



HEAVY DUTY H.A.C. PAVEMENT - DETAIL B

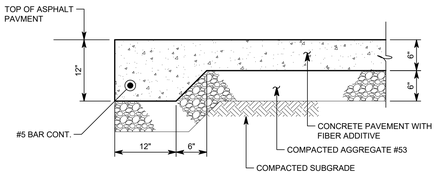
1" = 1'-0"



RIGHT OF WAY ASPHALT PAVEMENT - DETAIL C

1" = 1'-0"

(NOTE: ASPHALT ALTERNATIVE FOR USE ON TOWN OF ZIONSVILLE LOCAL STREET)



FIBER ADDITIVE: VIRGIN NYLON FIBERS. 3/4" LENGTH, NYCON BY NYCON INC., OR FORTA NYLON BY FORTA CORPORATION, ADDED AT THE BATCH PLANT AT 1 LB. PER CU. YD. OF CONCRETE.

CONCRETE / ASPHALT PAVEMENT INTERFACE - DETAIL D

1" = 1'-0"

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DRAWN BY: DBS

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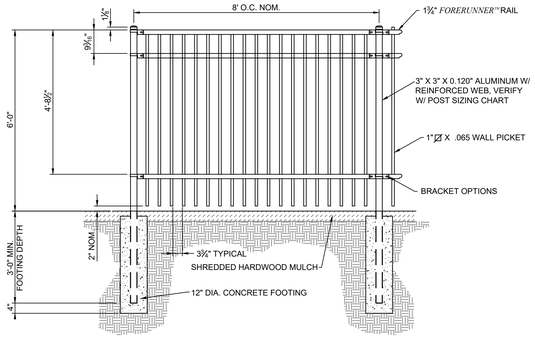
PROJECT ISSUE DATE: 06.24.2025

REV. NO.△	DESCRIPTION	DATE
1	ADDENDUM 1	07.09.2025

SITE DETAILS

G4-00

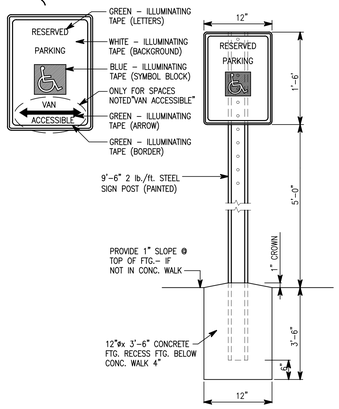
Drawing Path: P:\2024\2000\206\CAD\Civil\Active\? - 2024-206 - G4-00 - Site Details.dwg
Plotted By: dsouser Time of Plot: 7/7/25 - 4:24pm Last Edited: 7/7/25 - 1:32pm



NOTE:
1. VERIFY POST SIZING W/ MANUFACTURERS POST SIZING CHART.
2. FENCE TO BE 3 RAIL ECHELON II MAJESTIC FENCE AVAILABLE FROM AMERISTAR FENCE, OR APPROVED EQUAL.
3. COLOR TO BE SELECTED BY OWNER.

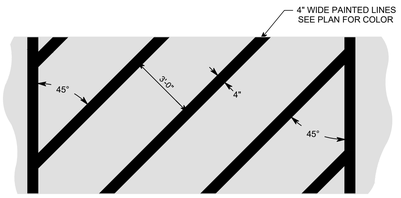
ORNAMENTAL FENCE - DETAIL N

1/2" = 1'-0"



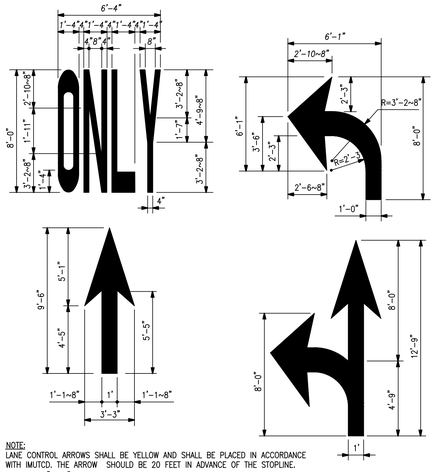
A.D.A. PARKING SIGN - DETAIL K

NO SCALE



PAINTED PARKING ISLANDS - DETAIL F

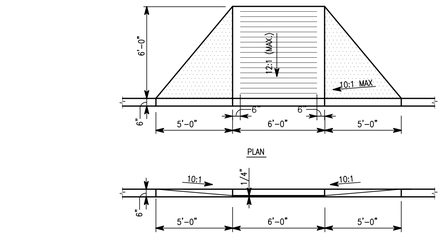
NO SCALE



NOTE:
LANE CONTROL ARROWS SHALL BE YELLOW AND SHALL BE PLACED IN ACCORDANCE WITH IMUTCD. THE ARROW SHOULD BE 20 FEET IN ADVANCE OF THE STOPLINE. THE WORD "ONLY" SHOULD BE LOCATED IN ADVANCE OF THE PAVEMENT ARROW.

TRAFFIC MARKINGS - DETAIL G

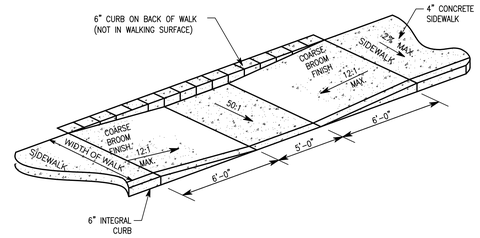
NO SCALE



ELEVATION

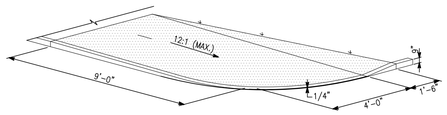
ADA RAMP - TYPE 1 - DETAIL A

1/4"=1'-0"



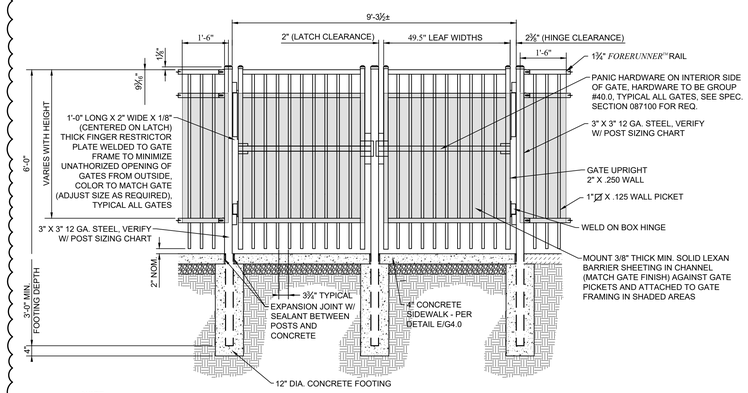
ADA RAMP - TYPE 2- DETAIL B

NONE



HANDICAP RAMP - TYPE 3 - DETAIL C

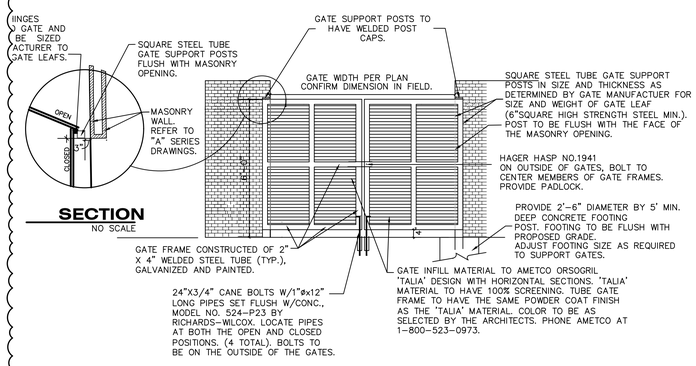
SCALE: NONE



NOTE:
1. VERIFY HINGE AND LATCH CLEARANCE PRIOR TO INSTALLING POSTS (VERIFY PRIOR TO SIDEWALK INSTALLATION).
2. VERIFY POST SIZING W/ MANUFACTURERS POST SIZING CHART (VERIFY PRIOR TO SIDEWALK INSTALLATION).
3. INSTALL 2 - 4' OPENING SINGLE SWING GATES. GATE TO BE 3 RAIL ECHELON II MAJESTIC GATE AVAILABLE FROM AMERISTAR FENCE, OR APPROVED EQUAL.
4. COLOR TO MATCH FENCE COLOR.

ORNAMENTAL GATES AT DROP-OFF - DETAIL P

1/2" = 1'-0"

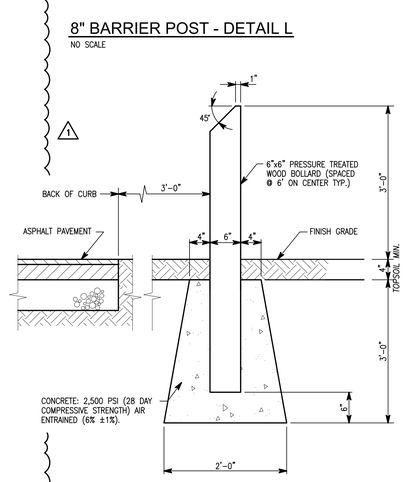


SECTION

NO SCALE

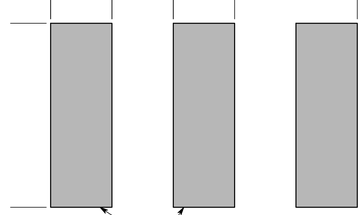
METAL MECH / ELEC YARD GATE - DETAIL T

NO SCALE



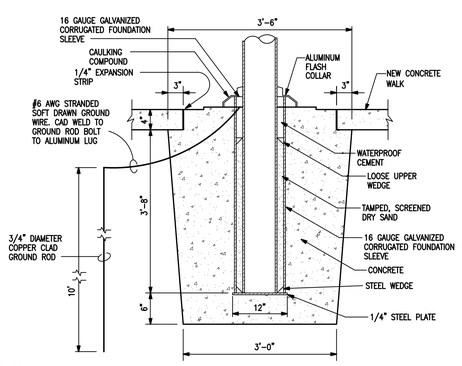
WOOD BARRIER POST - DETAIL M

NO SCALE



CROSSWALK STRIPE - DETAIL H

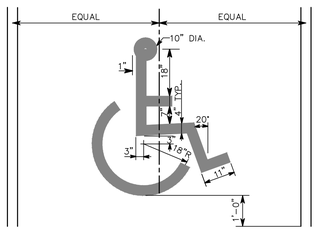
SCALE: 1/2" = 1'-0"



NOTE
1. 30' FLAGPOLE PER SPECIFICATIONS.

FLAG POLE FOUNDATION - DETAIL D

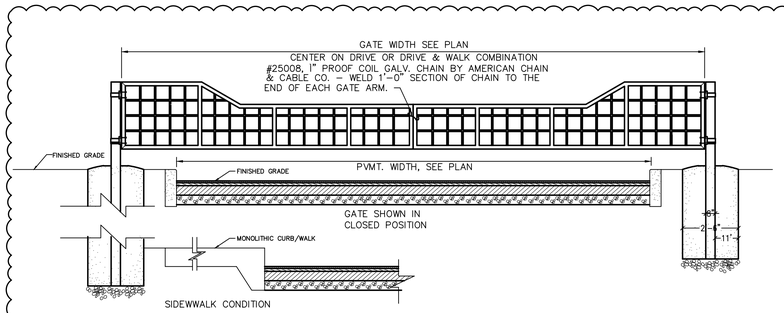
NO SCALE



NOTE:
1. SEE SPECIFICATIONS SECTION 321723 FOR PAINT REQUIREMENTS.

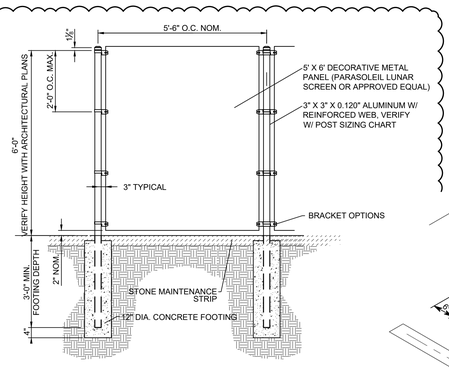
PAINTED A.D.A. SYMBOL- DETAIL J

NONE



TRAFFIC CONTROL GATE - DETAIL S

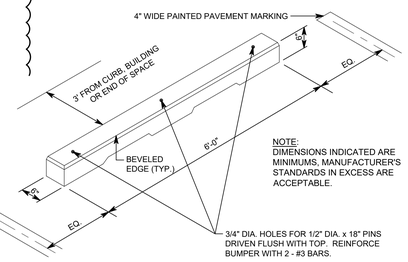
NO SCALE



NOTE:
1. VERIFY POST SIZING W/ MANUFACTURERS POST SIZING CHART.
2. FENCE TO BE 4 RAIL ECHELON II MAJESTIC FENCE AVAILABLE FROM AMERISTAR FENCE, OR APPROVED EQUAL.
3. PATTERN AND STANDARD COLOR TO BE SELECTED BY OWNER.

METAL PANEL FENCE - DETAIL R

1/2" = 1'-0"



NOTE:
DIMENSIONS INDICATED ARE MINIMUMS. MANUFACTURER'S STANDARDS IN EXCESS ARE ACCEPTABLE.

PARKING BUMPER - DETAIL E

NO SCALE

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3901 West 86th Street, Suite 200
Indianapolis, Indiana 46268
Phone: 317-334-1500
Fax: 317-334-1552
TLF Job No: 2024-206

ISSUED FOR BID

KRISTOPHER S. GRANT REGISTERED No. PE10606090 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: DBS

PROJECT NUMBER: 224033.00 (TLF JOB #2024-206)

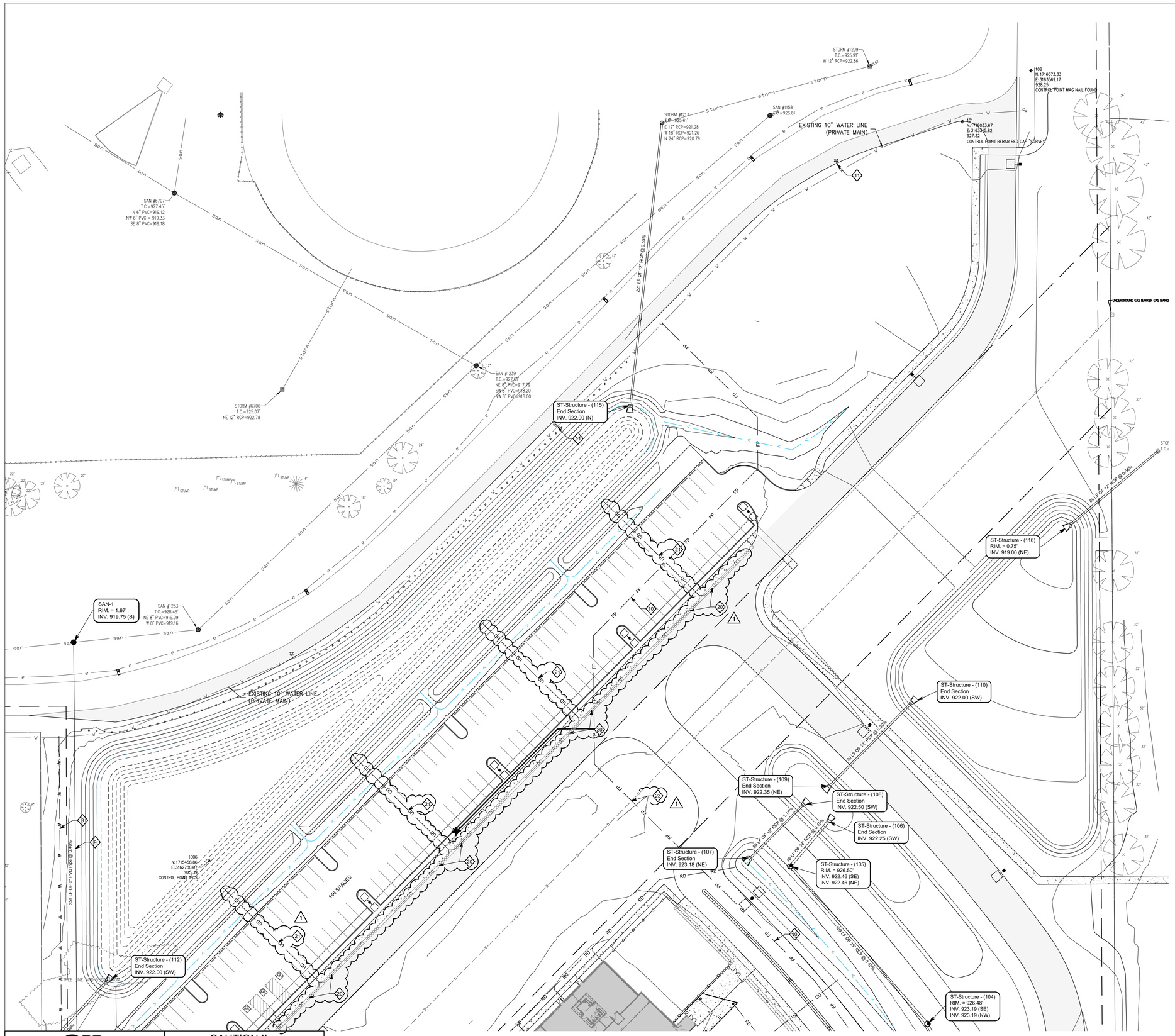
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	07.09.2025

SITE DETAILS

G4-01

Drawing Path: P:\2024\200\205\CAD\Civil\Active\2 - 2024-206 - G4-00 - Site Details.dwg
Plotted By: dscheurer Time of Plot: 7/7/25 - 4:26pm Last Edited: 7/7/25 - 1:52pm



NORTH

30 0 30 60 90

GENERAL NOTES

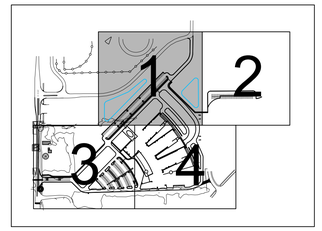
1. SEE DRAWING G0-01 FOR GENERAL NOTES AND ADDITIONAL LEGEND.
2. TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY THE SURVEYOR. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE PROJECT AREA INCLUDING UNDERGROUND UTILITY CONDITIONS, LOCATION AND DEPTH PRIOR TO ANY OTHER SITE CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.

UTILITY KEYNOTES

1. 6" PVC SANITARY CLEANOUT - SEE DETAIL S15/SU2-01
2. 6" PVC SANITARY LATERAL @ 1.04%SLOPE MIN. - SEE DETAIL S9/SU2-01
3. 8" PVC SANITARY SEWER @ 0.40% SLOPE - SEE DETAIL S9/SU2-01
4. PROPOSED 8" PVC STORM ROOF DRAIN
5. 8" PVC STORM CLEANOUT - SEE DETAIL A/SU2-00
6. FIRE HYDRANT & VALVE ASSEMBLY - SEE DETAIL F/SU2-00
7. WATER VALVE
8. WATER METER
9. 8" C900 PVC WATER SERVICE LINE - SEE DETAIL F/SU2-00
10. 8" C900 PVC FIRE PROTECTION LINE - SEE DETAIL F/SU2-00
11. RELOCATE EXISTING HYDRANT & VALVE ASSEMBLY 6' BEHIND NEW EDGE OF PAVEMENT
12. UNDERGROUND ELECTRIC LINE (SEE ELECTRICAL SITE PLAN)
13. FIBER OPTIC DATA LINE (SEE TECHNOLOGY SITE PLAN)
14. TELEPHONE LINE (SEE TECHNOLOGY SITE PLAN)
15. 1,000-GALLON GREASE TRAP - SEE PLUMBING PLANS
16. SAMPLING MANHOLE - SEE PLUMBING PLANS
17. 1½" PVC SUMP PUMP DISCHARGE PIPE
18. FIRE DEPARTMENT CONNECTION
19. COORDINATE WITH BOONE COUNTY REMC FOR RELOCATION OF SUPPORT GUY WIRES ON EXISTING POLE TO PROVIDE CLEARANCE FOR NEW DRIVE.
20. PERVIOUS PAVER STRIP WITH UNDERDRAIN - SEE DETAIL E/SU2-02
21. 6" PVC SUBSURFACE DRAIN @ 0.5% SLOPE
22. INFILTRATION BASIN WITH UNDERDRAIN - SEE DETAIL D/SU2-02
23. 45° VERTICAL BENDS REQUIRED ON WATER LINE TO PROVIDE MIN. 2' CLEARANCE FROM GAS PIPELINE
24. CONCRETE CRADLE REQUIRED IF MIN. 2' VERTICAL CLEARANCE CANNOT BE ACHIEVED AT PIPELINE CROSSING - SEE DETAIL F/SU2-02

UTILITY LEGEND

COMM	PROPOSED COMMUNICATION LINE
UE	PROPOSED UNDERGROUND ELECTRICAL LINE
FO	PROPOSED FIBER OPTIC LINE
FP	PROPOSED FIRE PROTECTION LINE
SAN	PROPOSED SANITARY SEWER LINE
ST	PROPOSED STORM SEWER LINE
DSP	PROPOSED DOWNSPOUT LINE
T	PROPOSED TELEPHONE LINE
W	PROPOSED WATER LINE
	PROPOSED FIRE HYDRANT
	PROPOSED FIRE DEPARTMENT CONNECTION
	PROPOSED STORM INLET
	PROPOSED STORM MANHOLE
	PROPOSED LIGHT POLE
OHU	EXISTING OVERHEAD UTILITY LINE
g	EXISTING GAS LINE
g	EXISTING GAS PIPELINE
fo	EXISTING UNDERGROUND ELECTRIC/FIBER/COMM LINE
w	EXISTING WATER LINE
san	EXISTING SANITARY SEWER
storm	EXISTING STORM SEWER



KEYPLAN

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Call 811 or 1-800-382-5544 Before You Begin Any Digging Project.
Call 48 hours or 2 working days before you dig.
It's Fast, It's Easy and It's the Law in the state of Indiana!

CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

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CONSULTANT

TLF, INC.
3901 West 86th Street, Suite 200
Indianapolis, Indiana 46268
Phone: 317-334-1500
Fax: 317-334-1552
TLF Job No: 2024-206

ISSUED FOR BID

KRISTOPHER S. GRANT REGISTERED No. PE10606090 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: DBS

PROJECT NUMBER: 224033.00 (TLF JOB #2024-206)

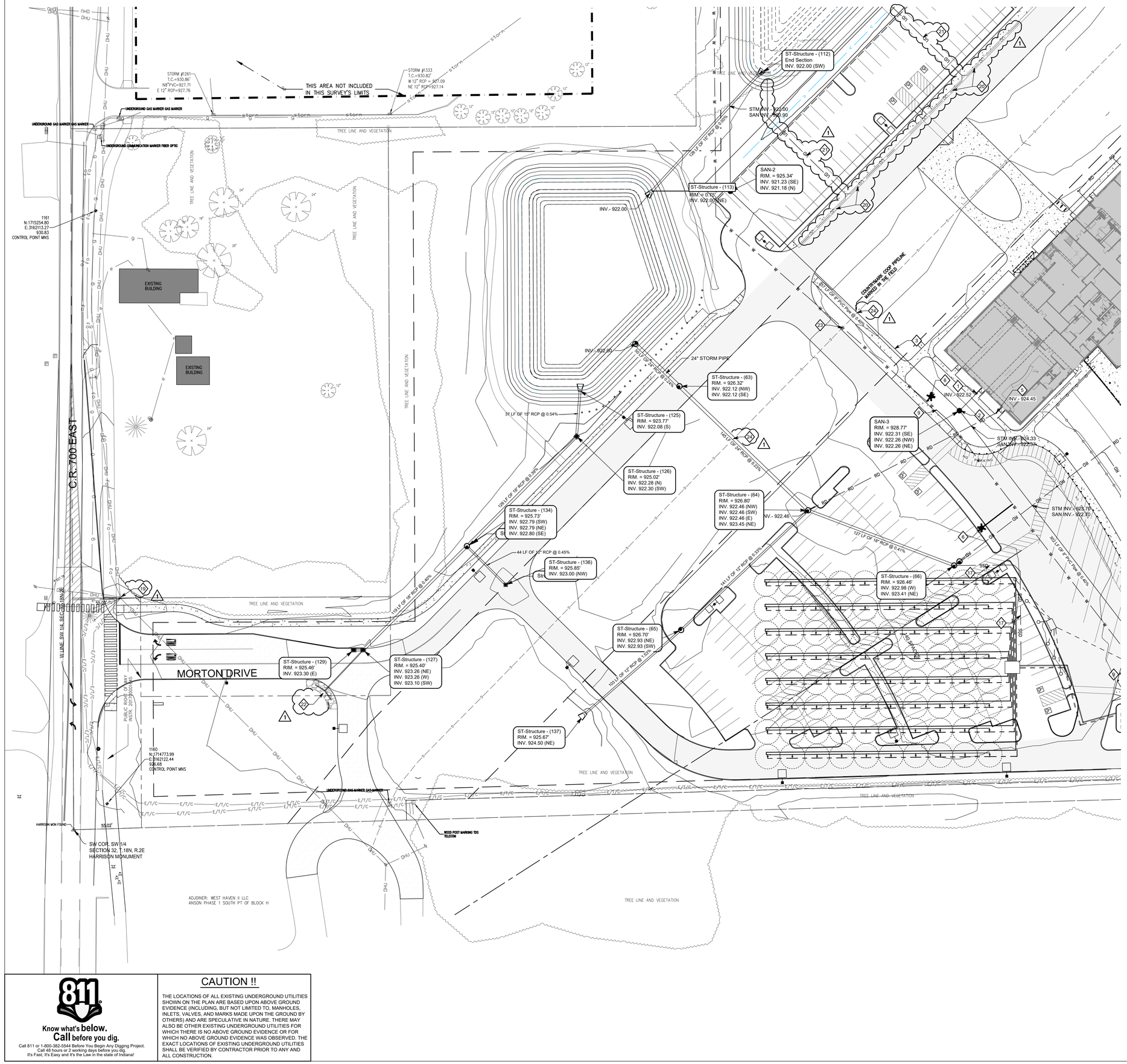
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	07.09.2025

UTILITY PLAN - AREA 1

SU1-1

Drawing Path: P:\2024\2000_2999\2401\Civil\Active\0 - 2024-206 - SU1-0, SU1-1 - Utility Plans.dwg
Plotted By: dschnur Date of Plot: 7/7/25 - 4:28pm Last Edited: 7/7/25 - 1:32pm



GENERAL NOTES

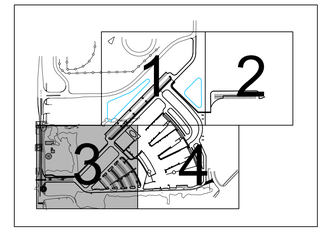
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6. FIRE HYDRANT & VALVE ASSEMBLY - SEE DETAIL F/SU2-00
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21. 6" PVC SUBSURFACE DRAIN @ 0.5% SLOPE
22. INFILTRATION BASIN WITH UNDERDRAIN - SEE DETAIL D/SU2-02
23. 45° VERTICAL BENDS REQUIRED ON WATER LINE TO PROVIDE MIN. 2' CLEARANCE FROM GAS PIPELINE
24. CONCRETE CRADLE REQUIRED IF MIN. 2' VERTICAL CLEARANCE CANNOT BE ACHIEVED AT PIPELINE CROSSING - SEE DETAIL F/SU2-02

UTILITY LEGEND

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UE	PROPOSED UNDERGROUND ELECTRICAL LINE
FO	PROPOSED FIBER OPTIC LINE
FP	PROPOSED FIRE PROTECTION LINE
SAN	PROPOSED SANITARY SEWER LINE
ST	PROPOSED STORM SEWER LINE
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W	PROPOSED WATER LINE
	PROPOSED FIRE HYDRANT
	PROPOSED FIRE DEPARTMENT CONNECTION
	PROPOSED STORM INLET
	PROPOSED STORM MANHOLE
	PROPOSED LIGHT POLE
OHU	EXISTING OVERHEAD UTILITY LINE
g	EXISTING GAS LINE
g c g	EXISTING GAS PIPELINE
fo	EXISTING UNDERGROUND ELECTRIC/FIBER/COMM LINE
w	EXISTING WATER LINE
san	EXISTING SANITARY SEWER
storm	EXISTING STORM SEWER



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TLF Job No: 2024-206

ISSUED FOR BID

KRISTOPHER S. GRANT
REGISTERED
No. PE10606090
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY: DBS

PROJECT NUMBER: 224033.00 (TLF JOB #2024-206)

PROJECT ISSUE DATE: 06.24.2025

REV. NO.△	DESCRIPTION	DATE
1	ADDENDUM 1	07.09.2025

UTILITY PLAN - AREA 3

SU1-3

Drawing Path: P:\2024\1 2024\206 CAD\Civil\Area 3 – 2024-206 – SU1-3 in SU1-4 – Utility Plans.dwg
Printed By: dschnur Time of Plot: 7/7/25 4:27pm Last Edited: 7/7/25 1:52pm

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Phone: 317-334-1500
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TLF Job No: 2024-206

ISSUED FOR BID

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DRAWN BY: DBS

PROJECT NUMBER: 224033.00 (TLF JOB #2024-206)

PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	07.09.2025

UTILITY DETAILS

SU2-02

STANDARD PRECAST MANHOLE

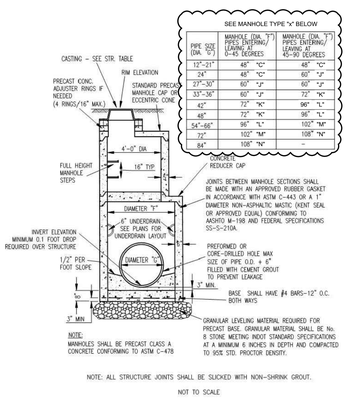
TOWN OF ZIONSVILLE, INDIANA

STANDARD DETAIL

PREPARED BY: BLN BEAM LONGEST NEFF

FIGURE NO. ST-1

ST-01.dwg Tuesday, November 08, 2016 10:53:41 AM



PIPE SIZE (DIA. "O")	MANHOLE (DIA. "I") PIPES ENTERING/ LEAVING AT 0-45 DEGREES	MANHOLE (DIA. "I") PIPES ENTERING/ LEAVING AT 45-90 DEGREES
12"-21"	48" "C"	48" "C"
24"	48" "C"	60" "J"
27"-30"	60" "J"	60" "J"
33"-36"	60" "J"	72" "K"
42"	72" "K"	96" "L"
48"	72" "K"	96" "L"
54"-66"	96" "L"	102" "M"
72"	102" "M"	108" "N"
84"	108" "N"	–

NOTE: ALL STRUCTURE JOINTS SHALL BE SLICKED WITH NON-SHRINK GROUT.

NOT TO SCALE

STORM BOX STRUCTURE

TOWN OF ZIONSVILLE, INDIANA

STANDARD DETAIL

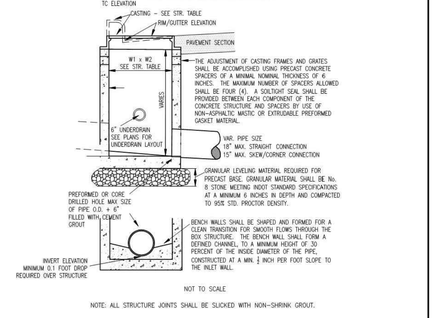
PREPARED BY: BLN BEAM LONGEST NEFF

FIGURE NO. ST-2

ST-02.dwg Tuesday, November 08, 2016 1:47:43 PM

STRUCTURE SIZING CHART		
INSIDE DIMENSIONS	INLET TYPE	COMMENTS
24" X 24"	"A"	18" MAX. STRAIGHT CONNECT 15° MAX. SKEW/CORNER
24" X 36"	"M"	18" MAX. SHORT WALL STRAIGHT CONNECT 27" MAX. LONG WALL STRAIGHT CONNECT 15° MAX. SHORT WALL/SKEW, CORNER 18" MAX. LONG WALL/SKEW, CORNER
30" X 30"	"B"	24" MAX. STRAIGHT CONNECT 15° MAX. SKEW/CORNER

GENERAL NOTES:
STORM BOX STRUCTURES SHALL BE PRECAST CONCRETE CLASS A WITH A 4000 PSI. 28 DAY COMPRESSIVE STRENGTH. THE STRUCTURE DESIGN SHALL BE IN FULL ACCORDANCE WITH ASTM C850



THE ADJUSTMENT OF CASTING FRAMES AND GRATES SHALL BE ACCOMPLISHED USING PRECAST CONCRETE SPACERS OF A MINIMAL NOMINAL THICKNESS OF 6 INCHES. THE MAXIMUM NUMBER OF SPACERS ALLOWED SHALL BE FOUR (4). A SOLITIGHT SEAL SHALL BE PROVIDED BETWEEN EACH COMPONENT OF THE CONCRETE STRUCTURE AND SPACERS BY USE OF NON-ASPHALTIC MASTIC OR EXTRUDABLE PREFORMED GASKET MATERIAL.

NOT TO SCALE

NOTE: ALL STRUCTURE JOINTS SHALL BE SLICKED WITH NON-SHRINK GROUT.

SPACER RINGS/RISER RINGS

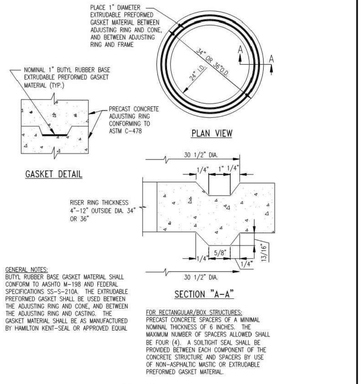
TOWN OF ZIONSVILLE, INDIANA

STANDARD DETAIL

PREPARED BY: BLN BEAM LONGEST NEFF

FIGURE NO. ST-3

ST-03.dwg Tuesday, November 08, 2016 10:54:58 AM



GENERAL NOTES:
BUTYL RUBBER BASE GASKET MATERIAL SHALL CONFORM TO AASHTO M-198 AND FEDERAL SPECIFICATIONS SS-S-210A. THE EXTRUDABLE PREFORMED GASKET SHALL BE USED BETWEEN THE ADJUSTING RING AND CONE, AND BETWEEN THE ADJUSTING RING AND CASTING. THE GASKET MATERIAL SHALL BE AS MANUFACTURED BY HAMILTON KENT–SEAL OR APPROVED EQUAL

FOR RECTANGULAR/BOX STRUCTURES:
PRECAST CONCRETE SPACERS OF A MINIMAL NOMINAL THICKNESS OF 6 INCHES. THE MAXIMUM NUMBER OF SPACERS ALLOWED SHALL BE FOUR (4). A SOLITIGHT SEAL SHALL BE PROVIDED BETWEEN EACH COMPONENT OF THE CONCRETE STRUCTURE AND SPACERS BY USE OF NON–ASPHALTIC MASTIC OR EXTRUDABLE PREFORMED GASKET MATERIAL.

NOT TO SCALE

NOTE: ALL JOINTS SHALL BE SLICKED WITH NON–SHRINK GROUT.

BEDDING AND BACKFILL SECTION

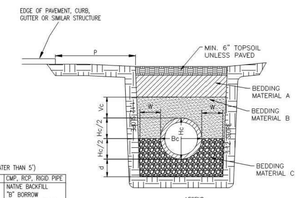
TOWN OF ZIONSVILLE, INDIANA

STANDARD DETAIL

PREPARED BY: BLN BEAM LONGEST NEFF

FIGURE NO. ST-8

ST-08.dwg Wednesday, October 26, 2016 8:53:14 AM



BEDDING MATERIAL DESIGNATION (P GREATER THAN 5')

	PVC, HDPE, PLASTIC PIPE	CMP, RCP, RIGID PIPE
MATERIAL A	NATIVE BACKFILL	NATIVE BACKFILL
MATERIAL B	#8 WASHED STONE	"B" BORROW
MATERIAL C	#8 WASHED STONE	#8 WASHED STONE

BEDDING MATERIAL DESIGNATION (P LESS THAN 5', BUT GREATER THAN 0')

	PVC, HDPE, PLASTIC PIPE	CMP, RCP, RIGID PIPE
MATERIAL A	#8 WASHED STONE	#8 WASHED STONE
MATERIAL B	#8 WASHED STONE	#8 WASHED STONE
MATERIAL C	#8 WASHED STONE	#8 WASHED STONE

BEDDING MATERIAL DESIGNATION (PIPE UNDER PAVEMENT OR DRIVEWAY)

	PVC, HDPE, PLASTIC PIPE	CMP, RCP, RIGID PIPE
MATERIAL A	PIPE NOT ALLOWED	#8 WASHED STONE
MATERIAL B	(EXCEPT HDPE – SEE NOTE 7)	#8 WASHED STONE
MATERIAL C		#8 WASHED STONE

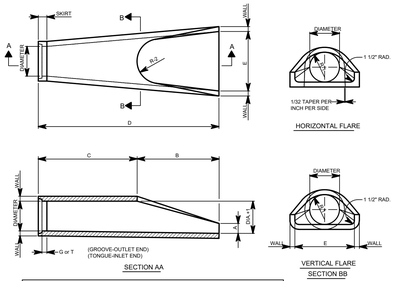
LEGEND
P = DISTANCE FROM EDGE OF PAVEMENT
Hc = OUTSIDE DIAMETER OR RISE
Bc = OUTSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE
= 6" MIN. FOR FILL HEIGHT UP TO 16'
= 12" MIN. FOR FILL HEIGHT OF 16' OR MORE
Vc = 1/2" FOR Bc UP TO 18"
= 18" FOR Bc > 18"
W = 0.3 Bc OR 9', WHICHEVER IS GREATER

NOTES:
1. INDOT TYPE 1 PIPE REQUIRED FOR STORM SEWERS/CULVERTS UNDER PAVEMENT
2. INDOT TYPE 2 PIPE REQUIRED FOR STORM SEWERS/CULVERTS OUTSIDE OF PAVEMENT.
3. ALL BEDDING SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS
4. FOR BACKFILL PURPOSES, PAVED SHOULDERS, CURBS, GUTTERS, AND SIDEWALKS ARE CONSIDERED PAVEMENT.
5. FLOWABLE BACKFILL SHALL BE ENCASED BY A MINIMUM OF 2 FEET OF COMPACTED EARTH BACKFILL
6. PLASTIC PIPES FABRICATED ON HYDROSTATIC DESIGN BASES RATED RISING CONSIDERED RIGID FOR BACKFILL PURPOSES
7. ZIONSVILLE ALLOWS HDPE PIPE UNDER PAVEMENT AS LONG AS IT IS A MANDREL TESTED TO 7.5%

NOT TO SCALE

TYPICAL SWALE SECTION - DETAIL C

NOT TO SCALE

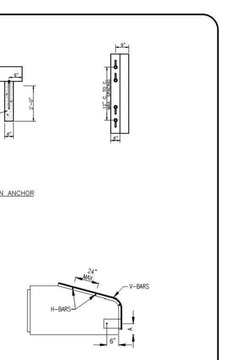


SIZE SCHEDULE												
DIA	WALL	G or T	WT. SEC	A	B	C	D	E	DIA.+1	R-1	R-2	SKIRT
12	2	1	530	4	24	48	72	24	13	10	9	3
15	2	2	740	6	27	46	73	30	16	10	11	3
18	2	2	990	9	27	46	73	36	19	13	12	4
21	2	2	1280	5	35	38	73	42	22	16	13	4
24	3	2	1520	9	43	30	73	48	25	19	14	4
27	3	2	1930	10	48	25	73	54	28	17	14	4
30	3	3	2190	12	54	19	73	60	31	18	15	5
33	3	3	3150	13	60	39	97	66	34	20	17	5
36	4	3	4100	15	63	34	97	72	37	24	20	5
42	4	3	5380	21	63	35	98	78	43	27	22	5
48	5	4	6550	24	72	26	98	84	49	28	22	5
54	5	4	8040	27	65	35	100	90	55	32	24	6
60	6	5	8750	30	60	39	99	96	61	36	24	6
66	6	5	10630	24	78	21	99	102	67	35	24	7
72	7	6	12520	34	78	21	99	108	73	38	24	7
78	7	6	14430	24	78	21	99	114	79	41	24	8
84	8	7	16350	24	78	21	99	120	85	44	24	9

NOTE: MANUFACTURER OF END SECTION IS IN ACCORDANCE WITH APPLICABLE PORTIONS OF A.S.T.M. SPECIFICATION C76.

PRECAST FLARED END SECTION - DETAIL A

NO SCALE



NOTES:
1. BARS & PLATES ARE HOT–ROLLED STEEL.
2. BARS, PLATES, & PIPE ARE FINISHED WITH 2 COATS OF ALUMINUM PAINT.
3. BOLTS ARE GALVANIZED.

NOT TO SCALE

PRE CAST CONCRETE END SECTION

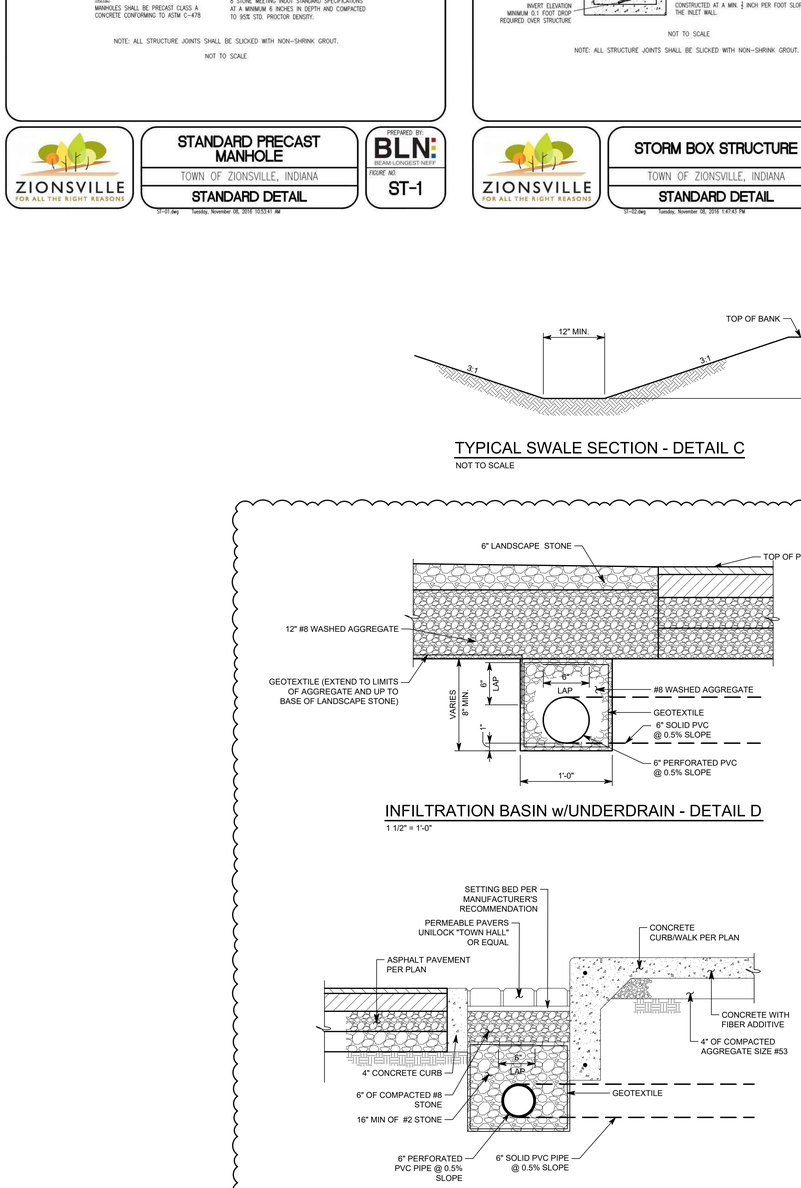
TOWN OF ZIONSVILLE, INDIANA

STANDARD DETAIL

PREPARED BY: BLN BEAM LONGEST NEFF

FIGURE NO. ST-9

ST-09.dwg Wednesday, October 26, 2016 8:53:51 AM

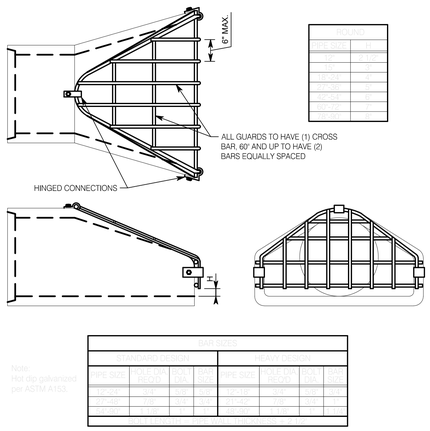


PERVIOUS PAVEMENT STRIP - DETAIL E

1" = 1'-0"

INFILTRATION BASIN w/UNDERDRAIN - DETAIL D

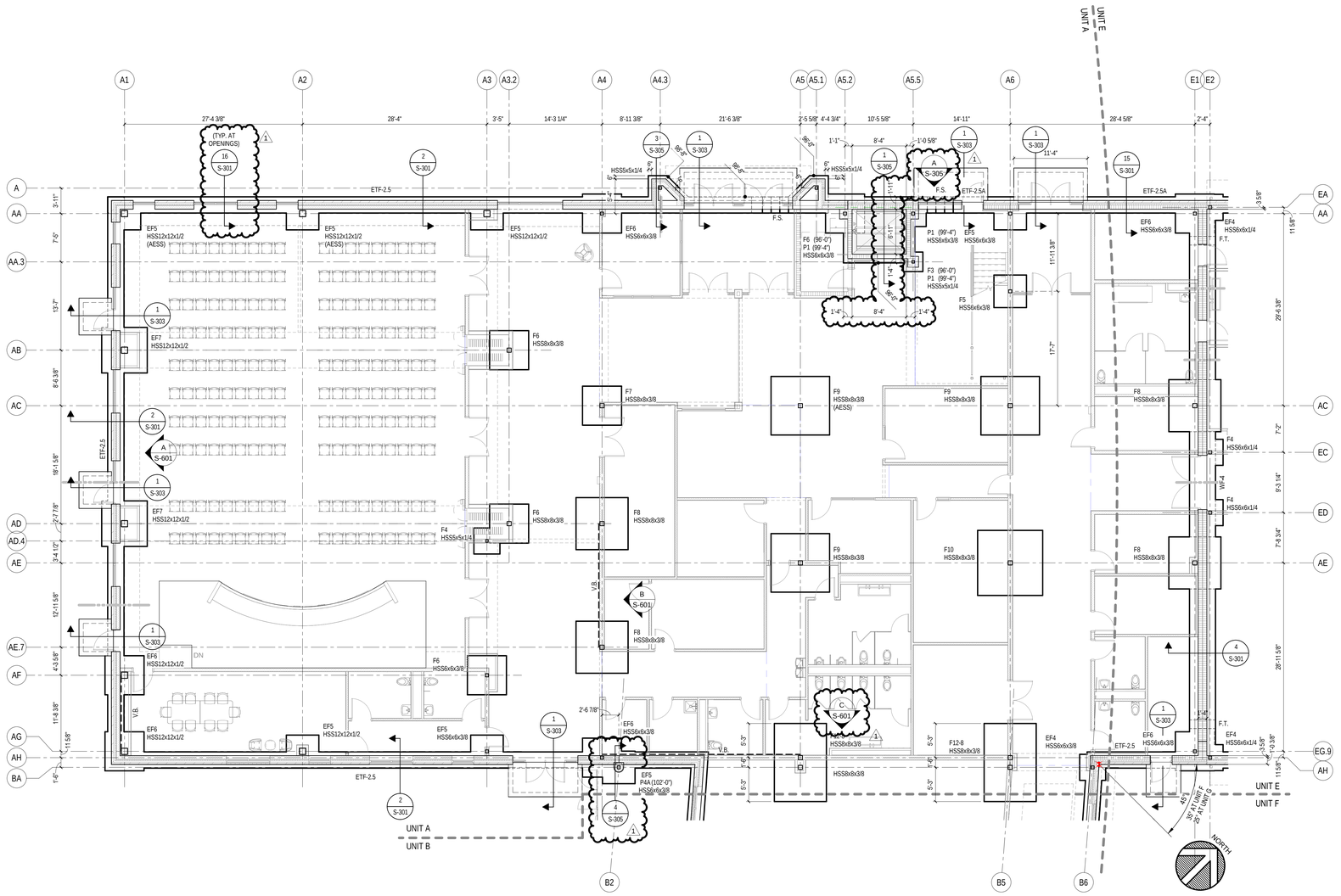
1 1/2" = 1'-0"



TRASH GUARD FOR FLARED END SECTIONS - DETAIL B

NOT TO SCALE

Drawing Path: P:\2024\2000\206\CAD\Civil\Active\10 – 2024-206 – SU2-0 to SU2-02 – Utility Details.dwg
Plotted By, dscheer Time of Plot: 7/7/25 – 4:45pm Last Edited: 7/7/25 – 1:32pm



UNIT A - FOUNDATION PLAN

1/8" = 1'-0"

NORTH

PLAN NOTES:

1. REFERENCE ELEVATION = TOP OF EXISTING FINISH FLOOR = 100'-0" (929.50' U.S.G.S.).
2. TOP OF FOOTING (T/FOOTING) ELEVATION = 98'-8" (U.O.N.).
3. TOP OF PIER (T/PIER) ELEVATION = 98'-8" (U.O.N.).
4. (XXX'-X") INDICATES TOP OF FOOTING OR PIER ELEVATION.
5. F9 (1'), F10 (1') INDICATES 1" DIAMETER ANCHOR BOLTS REQUIRED.

FOUNDATION PLAN NOTES:

1. SEE SHEETS S-001 AND S-002 FOR GENERAL NOTES.
2. SEE S-301, S-302, S-303, AND S3-05 FOR FOUNDATION DETAILS. TYPICAL DETAILS MAY NOT BE CUT ON PLANS, BUT APPLY UNLESS OTHERWISE NOTED.
3. CENTER WALL FOOTINGS UNDER WALLS UNLESS NOTED OTHERWISE.
4. FX, EFX INDICATES INTERIOR FOUNDATION F"X" OR EXTERIOR FOUNDATION EF"X". SEE FOUNDATION SCHEDULE ON S-301.
5. ETF-X INDICATES EXTERIOR TRENCH FOOTING ETF-"X". SEE TYPICAL EXTERIOR TRENCH FOOTING DETAIL ON S-301.
6. WF-X, INDICATES INTERIOR WALL FOOTING WF-"X". TYPICAL INTERIOR WALL FOOTING DETAIL ON S-301.
7. P1, P2, ETC. INDICATES CONCRETE PIER. SEE TYPICAL PIER DETAIL ON S-301.
8. SEE S-301 FOR TYPICAL INTERIOR COLUMN FOOTING DETAIL.
9. SEE 13/S-301 FOR TRENCH FOOTING RECESS AT DOWNSPOUTS.
10. SEE 5/S-301 FOR TYPICAL COLUMN BASE.
11. SEE 3/S-301 FOR TYPICAL BASE PLATE.
12. FOOTINGS MAY BE EARTH-FORMED WHERE COHESIVE SOILS EXIST AT FOUNDATION ELEVATION. REFER TO THE SOILS REPORT IN THE PROJECT MANUAL. THE CONTRACTOR SHALL INCLUDE IN HIS BID FORMING OF FOOTINGS WHERE REVIEW OF THE GEOTECHNICAL ENGINEERING REPORT INDICATES EARTH-FORMING MAY NOT BE POSSIBLE.
13. VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND PLUMBING LINES. SEE SHEET S-302 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.
14. SEE 6/S-303 FOR TYPICAL SLAB ON GRADE.
15. SEE 7/S-303 FOR SLAB ISOLATIONS.
16. F.T. INDICATES FOOTING TRANSITION. SEE 11/S-303.
17. F.S. INDICATES STEPPED FOOTING. SEE S-301 FOR DETAILS.
18. AESS INDICATES ARCHITECTURALLY EXPOSED STRUCTURAL STEEL MEMBERS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
19. LEGEND:

INDICATES UNDERGROUND PLUMBING OR UTILITY LINE. VERIFY LOCATION AND ELEVATIONS. SEE S-302 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.

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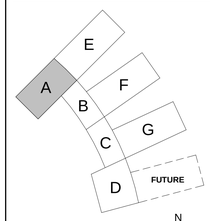
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Fax: 317-334-1552
TLF Job No: 2024-206



KEY PLAN

ISSUED FOR BID



DRAWN BY: TLF
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

UNIT A - FOUNDATION PLAN

S-101

Autodesk Docs://Zionsville ELC\2023_STRC_224033.00.rvt
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UNIT B - FOUNDATION PLAN

1/8" = 1'-0"

PLAN NOTES:

1. REFERENCE ELEVATION = TOP OF EXISTING FINISH FLOOR = 100'-0" (929.50' U.S.G.S.).
2. TOP OF FOOTING (T/FOOTING) ELEVATION = 98'-8" (U.O.N.).
3. TOP OF PIER (T/PIER) ELEVATION = 98'-8" (U.O.N.).
4. (XXX'-X") INDICATES TOP OF FOOTING OR PIER ELEVATION.
5. F9 (1"), F10 (1") INDICATES 1" DIAMETER ANCHOR BOLTS REQUIRED.

FOUNDATION PLAN NOTES:

1. SEE SHEETS S-001 AND S-002 FOR GENERAL NOTES.
2. SEE S-301, S-302, S-303, AND S3-05 FOR FOUNDATION DETAILS. TYPICAL DETAILS MAY NOT BE CUT ON PLANS, BUT APPLY UNLESS OTHERWISE NOTED.
3. CENTER WALL FOOTINGS UNDER WALLS UNLESS NOTED OTHERWISE.
4. FX, EFX INDICATES INTERIOR FOUNDATION F"X" OR EXTERIOR FOUNDATION EF"X". SEE FOUNDATION SCHEDULE ON S-301.
5. ETF-X INDICATES EXTERIOR TRENCH FOOTING ETF-"X". SEE TYPICAL EXTERIOR TRENCH FOOTING DETAIL ON S-301.
6. WF-X, INDICATES INTERIOR WALL FOOTING WF-"X". TYPICAL INTERIOR WALL FOOTING DETAIL ON S-301.
7. P1, P2, ETC. INDICATES CONCRETE PIER. SEE TYPICAL PIER DETAIL ON S-301.
8. SEE S-301 FOR TYPICAL INTERIOR COLUMN FOOTING DETAIL.
9. SEE 13/S-301 FOR TRENCH FOOTING RECESS AT DOWNSPOUTS.
10. SEE 5/S-301 FOR TYPICAL COLUMN BASE.
11. SEE 3/S-301 FOR TYPICAL BASE PLATE.
12. FOOTINGS MAY BE EARTH-FORMED WHERE COHESIVE SOILS EXIST AT FOUNDATION ELEVATION. REFER TO THE SOILS REPORT IN THE PROJECT MANUAL. THE CONTRACTOR SHALL INCLUDE IN HIS BID FORMING OF FOOTINGS WHERE REVIEW OF THE GEOTECHNICAL ENGINEERING REPORT INDICATES EARTH-FORMING MAY NOT BE POSSIBLE.
13. VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND PLUMBING LINES. SEE SHEET S-302 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.
14. SEE 6/S-303 FOR TYPICAL SLAB ON GRADE.
15. SEE 7/S-303 FOR SLAB ISOLATIONS.
16. F.T. INDICATES FOOTING TRANSITION. SEE 11/S-303.
17. F.S. INDICATES STEPPED FOOTING. SEE S-301 FOR DETAILS.
18. AESS INDICATES ARCHITECTURALLY EXPOSED STRUCTURAL STEEL MEMBERS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
19. LEGEND:

INDICATES UNDERGROUND PLUMBING OR UTILITY LINE. VERIFY LOCATION AND ELEVATIONS. SEE S-302 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.

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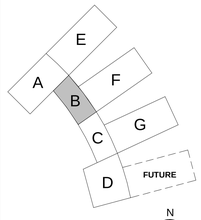
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TLF Job No: 2024-206



KEY PLAN

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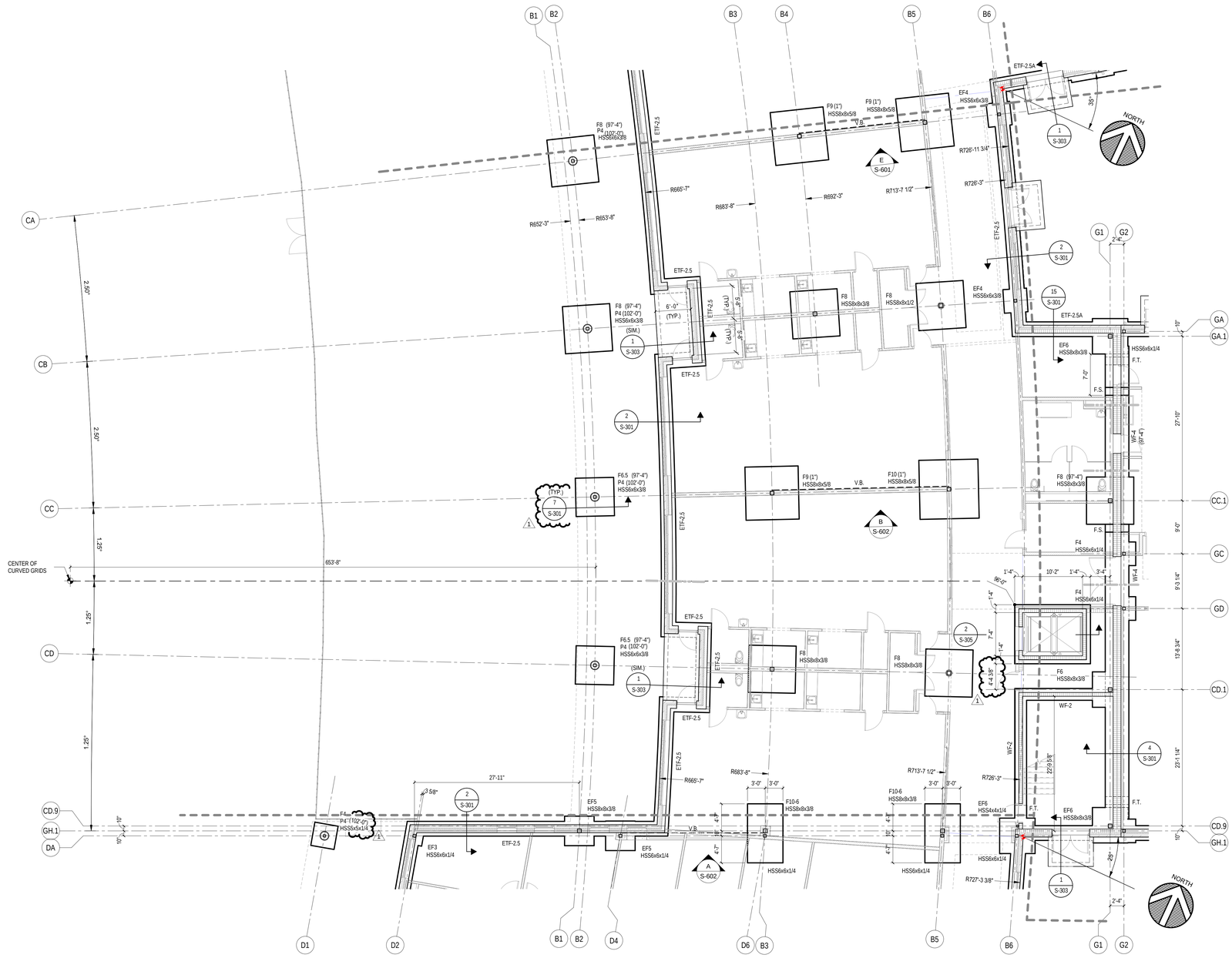
DRAWN BY: TLF
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

UNIT B - FOUNDATION PLAN

S-102

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UNIT C - FOUNDATION PLAN

1/8" = 1'-0"

NORTH

PLAN NOTES:

1. REFERENCE ELEVATION = TOP OF EXISTING FINISH FLOOR = 100'-0" (929.50' U.S.G.S.).
2. TOP OF FOOTING (T/FOOTING) ELEVATION = 98'-8" (U.O.N.).
3. TOP OF PIER (T/PIER) ELEVATION = 98'-8" (U.O.N.).
4. (XXX'-X") INDICATES TOP OF FOOTING OR PIER ELEVATION.
5. F9 (1"), F10 (1") INDICATES 1" DIAMETER ANCHOR BOLTS REQUIRED.

FOUNDATION PLAN NOTES:

1. SEE SHEETS S-001 AND S-002 FOR GENERAL NOTES.
2. SEE S-301, S-302, S-303, AND S3-05 FOR FOUNDATION DETAILS. TYPICAL DETAILS MAY NOT BE CUT ON PLANS, BUT APPLY UNLESS OTHERWISE NOTED.
3. CENTER WALL FOOTINGS UNDER WALLS UNLESS NOTED OTHERWISE.
4. FX, EFX INDICATES INTERIOR FOUNDATION F"X" OR EXTERIOR FOUNDATION EF"X". SEE FOUNDATION SCHEDULE ON S-301.
5. ETF-X INDICATES EXTERIOR TRENCH FOOTING ETF-"X". SEE TYPICAL EXTERIOR TRENCH FOOTING DETAIL ON S-301.
6. WF-X, INDICATES INTERIOR WALL FOOTING WF-"X". TYPICAL INTERIOR WALL FOOTING DETAIL ON S-301.
7. P1, P2, ETC. INDICATES CONCRETE PIER. SEE TYPICAL PIER DETAIL ON S-301.
8. SEE S-301 FOR TYPICAL INTERIOR COLUMN FOOTING DETAIL.
9. SEE 13/S-301 FOR TRENCH FOOTING RECESS AT DOWNSPOUTS.
10. SEE 5/S-301 FOR TYPICAL COLUMN BASE.
11. SEE 3/S-301 FOR TYPICAL BASE PLATE.
12. FOOTINGS MAY BE EARTH-FORMED WHERE COHESIVE SOILS EXIST AT FOUNDATION ELEVATION. REFER TO THE SOILS REPORT IN THE PROJECT MANUAL. THE CONTRACTOR SHALL INCLUDE IN HIS BID FORMING OF FOOTINGS WHERE REVIEW OF THE GEOTECHNICAL ENGINEERING REPORT INDICATES EARTH-FORMING MAY NOT BE POSSIBLE.
13. VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND PLUMBING LINES. SEE SHEET S-302 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.
14. SEE 6/S-303 FOR TYPICAL SLAB ON GRADE.
15. SEE 7/S-303 FOR SLAB ISOLATIONS.
16. F.T. INDICATES FOOTING TRANSITION. SEE 11/S-303.
17. F.S. INDICATES STEPPED FOOTING. SEE S-301 FOR DETAILS.
18. AESS INDICATES ARCHITECTURALLY EXPOSED STRUCTURAL STEEL MEMBERS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
19. LEGEND:

INDICATES UNDERGROUND PLUMBING OR UTILITY LINE. VERIFY LOCATION AND ELEVATIONS. SEE S-302 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.

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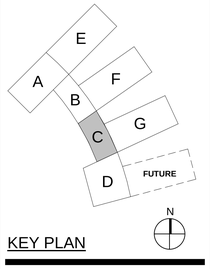
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TLF Job No: 2024-206



KEY PLAN

ISSUED FOR BID



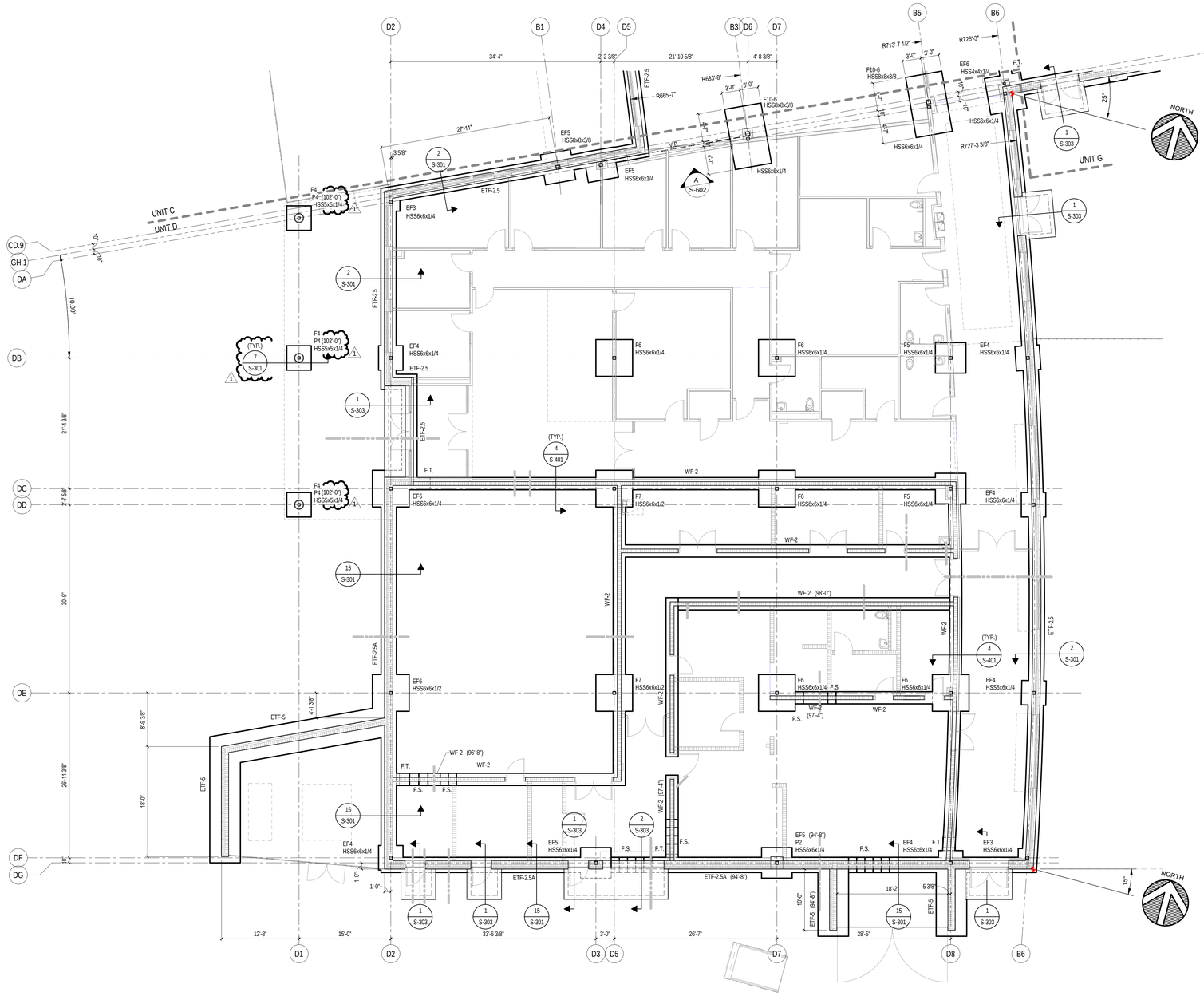
DRAWN BY: TLF
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

UNIT C - FOUNDATION PLAN

S-103

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UNIT D - FOUNDATION PLAN

1/8" = 1'-0"

NORTH

PLAN NOTES:

1. REFERENCE ELEVATION = TOP OF EXISTING FINISH FLOOR = 100'-0" (929.50' U.S.G.S.).
2. TOP OF FOOTING (T/FOOTING) ELEVATION = 98'-8" (U.O.N.).
3. TOP OF PIER (T/PIER) ELEVATION = 98'-8" (U.O.N.).
4. (XXX'-X") INDICATES TOP OF FOOTING OR PIER ELEVATION.
5. F9 (1"), F10 (1") INDICATES 1" DIAMETER ANCHOR BOLTS REQUIRED.

FOUNDATION PLAN NOTES:

1. SEE SHEETS S-001 AND S-002 FOR GENERAL NOTES.
2. SEE S-301, S-302, S-303, AND S3-05 FOR FOUNDATION DETAILS. TYPICAL DETAILS MAY NOT BE CUT ON PLANS, BUT APPLY UNLESS OTHERWISE NOTED.
3. CENTER WALL FOOTINGS UNDER WALLS UNLESS NOTED OTHERWISE.
4. FX, EFX INDICATES INTERIOR FOUNDATION F"X" OR EXTERIOR FOUNDATION EF"X". SEE FOUNDATION SCHEDULE ON S-301.
5. ETF-X INDICATES EXTERIOR TRENCH FOOTING ETF-"X". SEE TYPICAL EXTERIOR TRENCH FOOTING DETAIL ON S-301.
6. WF-X, INDICATES INTERIOR WALL FOOTING WF-"X". TYPICAL INTERIOR WALL FOOTING DETAIL ON S-301.
7. P1, P2, ETC. INDICATES CONCRETE PIER. SEE TYPICAL PIER DETAIL ON S-301.
8. SEE S-301 FOR TYPICAL INTERIOR COLUMN FOOTING DETAIL.
9. SEE 13/S-301 FOR TRENCH FOOTING RECESS AT DOWNSPOUTS.
10. SEE 5/S-301 FOR TYPICAL COLUMN BASE.
11. SEE 3/S-301 FOR TYPICAL BASE PLATE.
12. FOOTINGS MAY BE EARTH-FORMED WHERE COHESIVE SOILS EXIST AT FOUNDATION ELEVATION. REFER TO THE SOILS REPORT IN THE PROJECT MANUAL. THE CONTRACTOR SHALL INCLUDE IN HIS BID FORMING OF FOOTINGS WHERE REVIEW OF THE GEOTECHNICAL ENGINEERING REPORT INDICATES EARTH-FORMING MAY NOT BE POSSIBLE.
13. VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND PLUMBING LINES. SEE SHEET S-302 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.
14. SEE 6/S-303 FOR TYPICAL SLAB ON GRADE.
15. SEE 7/S-303 FOR SLAB ISOLATIONS.
16. F.T. INDICATES FOOTING TRANSITION. SEE 11/S-303.
17. F.S. INDICATES STEPPED FOOTING. SEE S-301 FOR DETAILS.
18. AESS INDICATES ARCHITECTURALLY EXPOSED STRUCTURAL STEEL MEMBERS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
19. LEGEND:

INDICATES UNDERGROUND PLUMBING OR UTILITY LINE. VERIFY LOCATION AND ELEVATIONS. SEE S-302 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.

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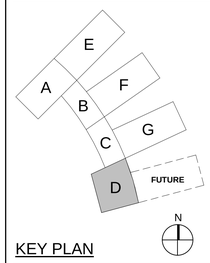
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TLF Job No: 2024-206



KEY PLAN

ISSUED FOR BID



DRAWN BY: TLF

PROJECT NUMBER: 224033.00

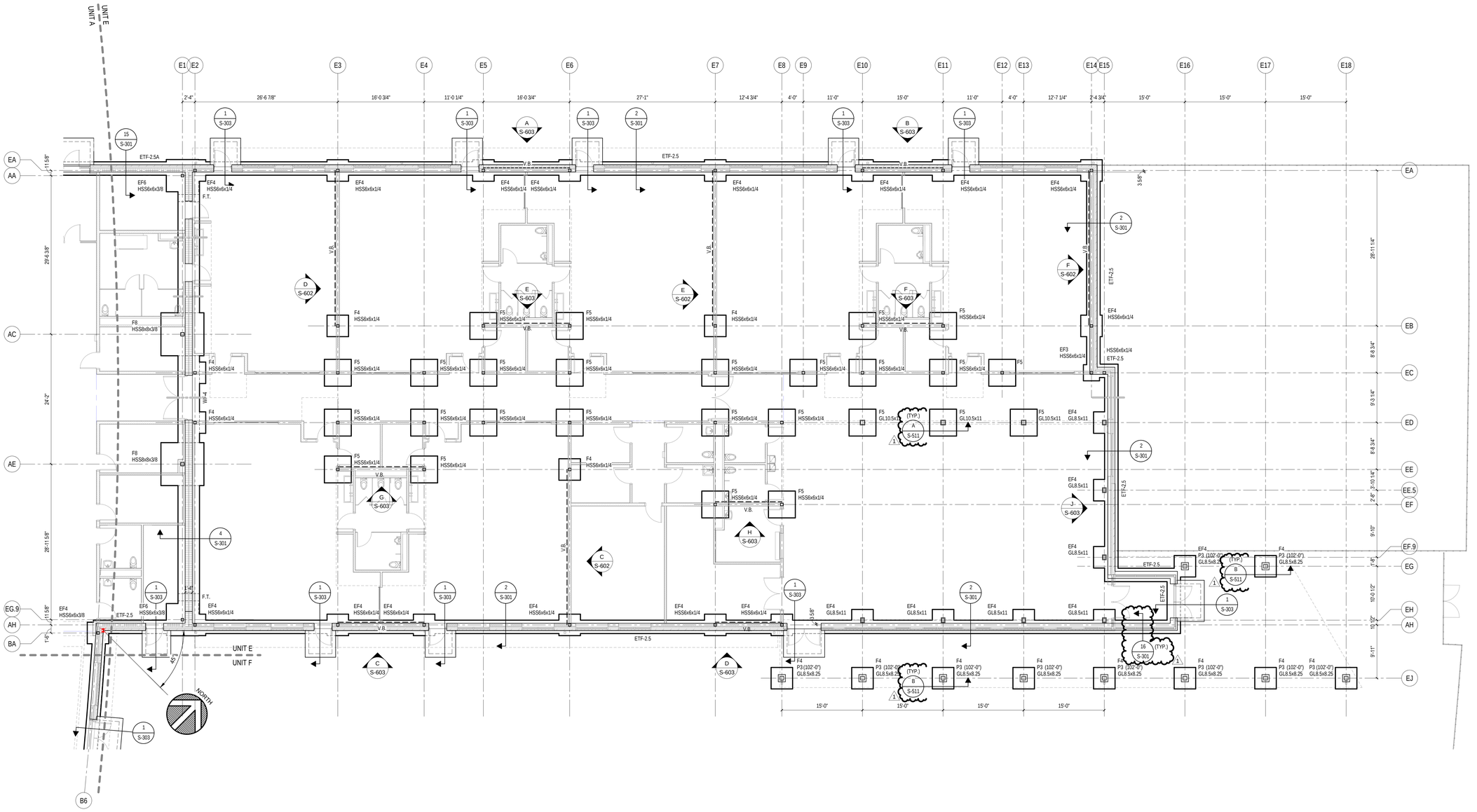
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

UNIT D - FOUNDATION PLAN

S-104

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UNIT E - FOUNDATION PLAN

1/8" = 1'-0"

NORTH

PLAN NOTES:

1. REFERENCE ELEVATION = TOP OF EXISTING FINISH FLOOR = 100'-0" (929.50' U.S.G.S.).
2. TOP OF FOOTING (T/FOOTING) ELEVATION = 98'-8" (U.O.N.).
3. TOP OF PIER (T/PIER) ELEVATION = 98'-8" (U.O.N.).
4. (XXX'-X") INDICATES TOP OF FOOTING OR PIER ELEVATION.
5. F9 (1"), F10 (1") INDICATES 1" DIAMETER ANCHOR BOLTS REQUIRED.

FOUNDATION PLAN NOTES:

1. SEE SHEETS S-001 AND S-002 FOR GENERAL NOTES.
2. SEE S-301, S-302, S-303, AND S3-05 FOR FOUNDATION DETAILS. TYPICAL DETAILS MAY NOT BE CUT ON PLANS, BUT APPLY UNLESS OTHERWISE NOTED.
3. CENTER WALL FOOTINGS UNDER WALLS UNLESS NOTED OTHERWISE.
4. FX, EFX INDICATES INTERIOR FOUNDATION F"X" OR EXTERIOR FOUNDATION EF"X". SEE FOUNDATION SCHEDULE ON S-301.
5. ETF-X INDICATES EXTERIOR TRENCH FOOTING ETF-"X". SEE TYPICAL EXTERIOR TRENCH FOOTING DETAIL ON S-301.
6. WF-X, INDICATES INTERIOR WALL FOOTING WF-"X". TYPICAL INTERIOR WALL FOOTING DETAIL ON S-301.
7. P1, P2, ETC. INDICATES CONCRETE PIER. SEE TYPICAL PIER DETAIL ON S-301.
8. SEE S-301 FOR TYPICAL INTERIOR COLUMN FOOTING DETAIL.
9. SEE 13/S-301 FOR TRENCH FOOTING RECESS AT DOWNSPOUTS.
10. SEE 5/S-301 FOR TYPICAL COLUMN BASE.
11. SEE 3/S-301 FOR TYPICAL BASE PLATE.
12. FOOTINGS MAY BE EARTH-FORMED WHERE COHESIVE SOILS EXIST AT FOUNDATION ELEVATION. REFER TO THE SOILS REPORT IN THE PROJECT MANUAL. THE CONTRACTOR SHALL INCLUDE IN HIS BID FORMING OF FOOTINGS WHERE REVIEW OF THE GEOTECHNICAL ENGINEERING REPORT INDICATES EARTH-FORMING MAY NOT BE POSSIBLE.
13. VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND PLUMBING LINES. SEE SHEET S-302 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.
14. SEE 6/S-303 FOR TYPICAL SLAB ON GRADE.
15. SEE 7/S-303 FOR SLAB ISOLATIONS.
16. F.T. INDICATES FOOTING TRANSITION. SEE 11/S-303.
17. F.S. INDICATES STEPPED FOOTING. SEE S-301 FOR DETAILS.
18. AESS INDICATES ARCHITECTURALLY EXPOSED STRUCTURAL STEEL MEMBERS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
19. LEGEND:

INDICATES UNDERGROUND PLUMBING OR UTILITY LINE. VERIFY LOCATION AND ELEVATIONS. SEE S-302 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.

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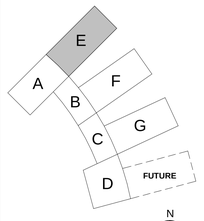
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KEY PLAN

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PROJECT NUMBER: 224033.00

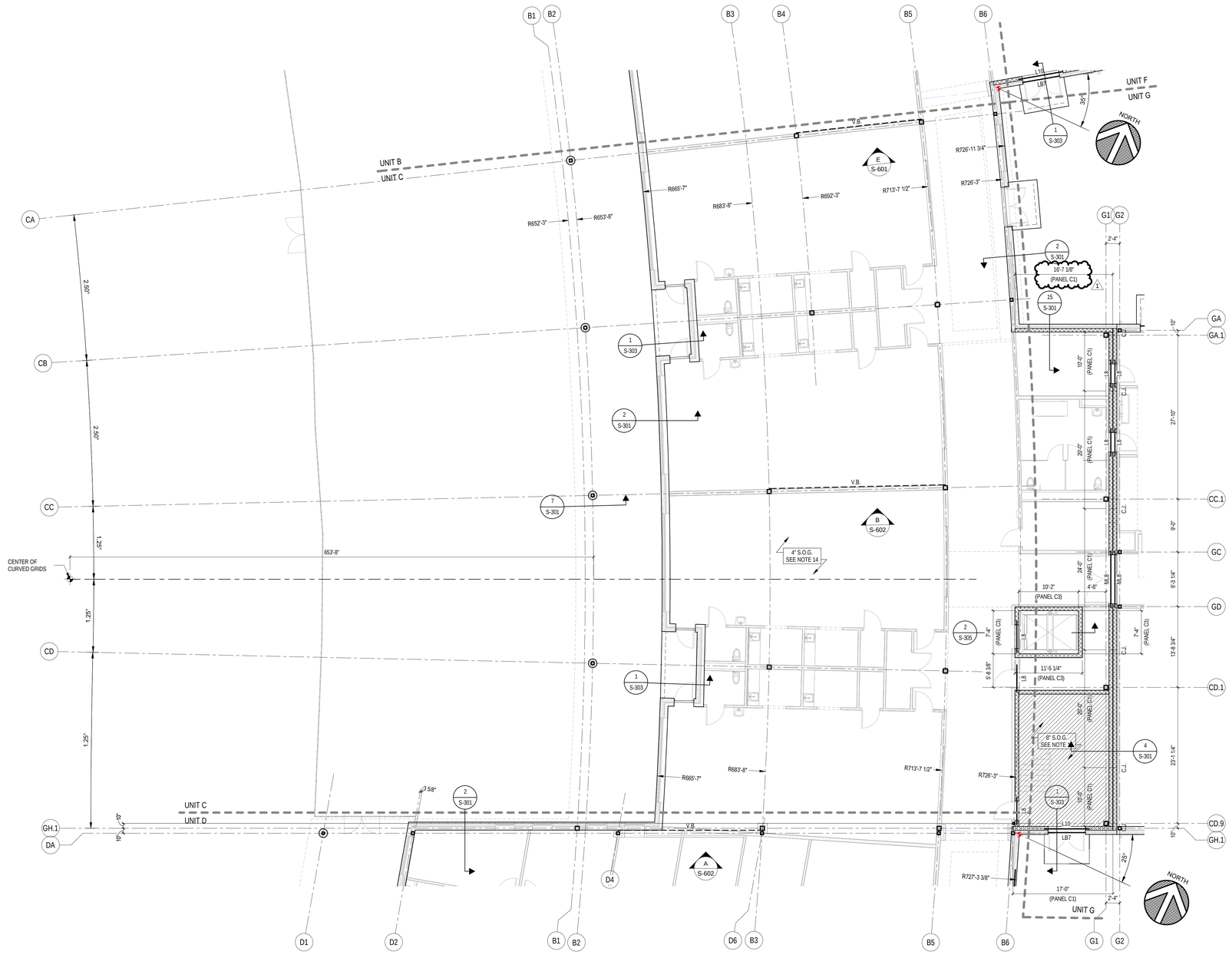
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

UNIT E - FOUNDATION PLAN

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UNIT C - SLAB AND MASONRY PLAN

1/8" = 1'-0"

NORTH

SLAB AND MASONRY PLAN NOTES:

1. SEE SHEETS S-001 AND S-002 FOR GENERAL NOTES.
2. SEE S-303, S-304 AND S-401, S-402 FOR TYPICAL SLAB AND MASONRY DETAILS. TYPICAL DETAILS MAY NOT BE CUT ON PLANS, BUT APPLY UNLESS OTHERWISE NOTED.
3. REFERENCE ELEVATION = TOP OF EXISTING FINISH FLOOR = 100'-0" (929.50' U.S.G.S.).
4. L, ML, SML — INDICATES MASONRY LINTEL. SEE SHEET S-403.
5. LBX — INDICATES STEEL ANGLE LINTEL. SEE SHEET S-403.
6. CJ — INDICATES CONTROL JOINT IN CMU. COORDINATE LOCATION WITH BONDING PATTERN AND WALL ELEVATION (SEE S-402).
7. * — INDICATES LINTEL REQUIRED FOR MECHANICAL OPENING. ONLY A PORTION OF THESE LINTELS REQUIRED FOR MASONRY OPENINGS ARE SHOWN ON THE PLANS. THE CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL LINTELS REQUIRED FOR MECHANICAL OPENINGS WHETHER OR NOT SHOWN ON THE PLANS. COORDINATE NUMBER, SIZE, ELEVATION, AND LOCATION OF ALL LINTELS FOR MECHANICAL OPENINGS.
   ⚠1 SEE 1/S-403 AND 2/S-403 FOR LINTELS IN NON-BEARING WALLS. SUBMIT SHOP DRAWINGS FOR REVIEW FOR LINTELS REQUIRED AT MECHANICAL OPENINGS IN BEARING WALLS AND OUTSIDE LIMITS OF 1/S-403 AND 2/S-403.
8. FOR MULTI-SPAN CONTINUOUS LINTELS, MAINTAIN 16" MINIMUM CMU BETWEEN OPENINGS (U.O.N.).
9. SEE S-401 FOR MASONRY WALL BRACING REQUIREMENTS.
10. SEE WALL ELEVATIONS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
11. SEE THE PROJECT MANUAL FOR SLAB-ON GRADE CONTRACTION AND CONSTRUCTION JOINT SPACING. THE CONTRACTOR IS ENCOURAGED TO SUBMIT A SLAB PLAN SHOWING ALTERNATE SPACINGS AND LOCATIONS THAT ADAPTS TO THEIR PLANNED CONSTRUCTION SEQUENCE.
12. PROVIDE LINTEL AT RECESSED FIRE EXTINGUISHER CABINET. SEE TYPICAL CMU WALL OPENING AT RECESSED EQUIPMENT ON S-402.
13. PROVIDE LINTEL AT RECESSED ELECTRICAL PANEL BOARD. SEE TYPICAL CMU WALL OPENING AT RECESSED EQUIPMENT ON S-402.
14. SLAB-ON-GRADE SHALL BE 4" CONCRETE SLAB ON GRADE WITH 6x6-W2.1xW2.1 WWF (SHEETS ONLY) OVER VAPOR BARRIER AND 6" MIN. COMPACTED DRAINAGE FILL (TYP. U.O.N.).
15. PROVIDE 8" CONCRETE SLAB ON GRADE WITH #4 BOTTOM BARS AT 12" o.c. EACH WAY (3" COVER) AND 6x6-W2.1xW2.1 WWF TOP REINFORCING (SHEETS ONLY) OVER VAPOR BARRIER AND 6" MIN. COMPACTED DRAINAGE FILL.
16. LEGEND:
    - INDICATES SLAB DEPRESSION FROM FINISHED FLOOR ELEVATION. SEE THE PROJECT MANUAL FOR REQUIRED DEPRESSION.
    - PANEL XX — INDICATES MASONRY WALL SUPPORTED ON FOOTING. SEE S-401 FOR MASONRY WALL PANEL SCHEDULE
    - INDICATES THICKENED SLAB. SEE 6C/S-303.

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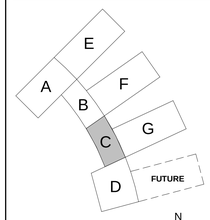
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KEY PLAN

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DRAWN BY: TLF

PROJECT NUMBER: 224033.00

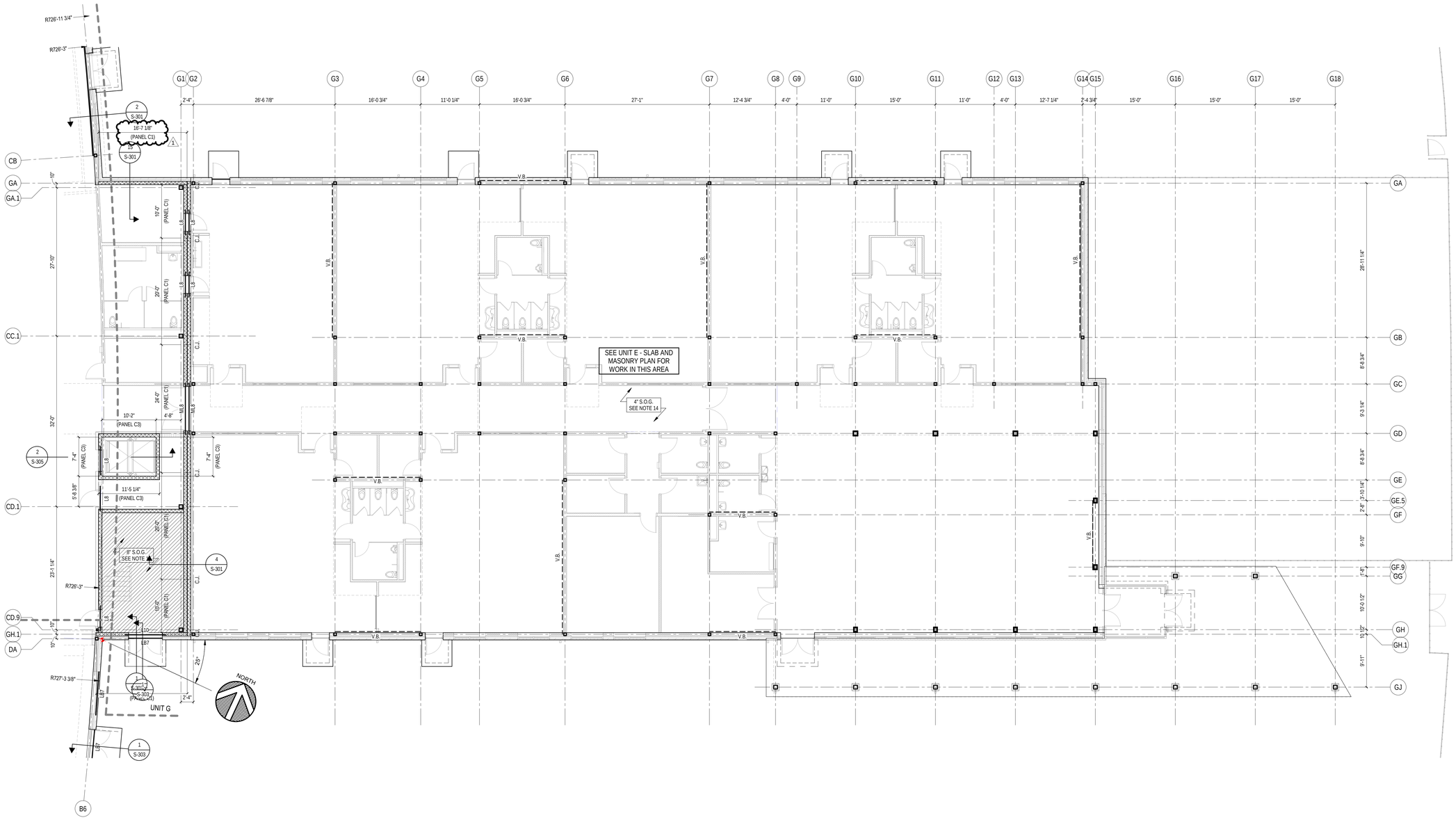
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

UNIT C - FIRST FLOOR SLAB AND MASONRY PLAN

S-113

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UNIT G - SLAB AND MASONRY PLAN

1/8" = 1'-0"

NORTH

SLAB AND MASONRY PLAN NOTES:

1. SEE SHEETS S-001 AND S-002 FOR GENERAL NOTES.
2. SEE S-303, S-304 AND S-401, S-402 FOR TYPICAL SLAB AND MASONRY DETAILS. TYPICAL DETAILS MAY NOT BE CUT ON PLANS, BUT APPLY UNLESS OTHERWISE NOTED.
3. REFERENCE ELEVATION = TOP OF EXISTING FINISH FLOOR = 100'-0" (929.50' U.S.G.S.).
4. L, ML, SML — INDICATES MASONRY LINTEL. SEE SHEET S-403.
5. LBX — INDICATES STEEL ANGLE LINTEL. SEE SHEET S-403.
6. CJ — INDICATES CONTROL JOINT IN CMU. COORDINATE LOCATION WITH BONDING PATTERN AND WALL ELEVATION (SEE S-402).
7. * — INDICATES LINTEL REQUIRED FOR MECHANICAL OPENING. ONLY A PORTION OF THESE LINTELS REQUIRED FOR MASONRY OPENINGS ARE SHOWN ON THE PLANS. THE CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL LINTELS REQUIRED FOR MECHANICAL OPENINGS WHETHER OR NOT SHOWN ON THE PLANS. COORDINATE NUMBER, SIZE, ELEVATION, AND LOCATION OF ALL LINTELS FOR MECHANICAL OPENINGS.

   SEE 1/S-403 AND 2/S-403 FOR LINTELS IN NON-BEARING WALLS. SUBMIT SHOP DRAWINGS FOR REVIEW FOR LINTELS REQUIRED AT MECHANICAL OPENINGS IN BEARING WALLS AND OUTSIDE LIMITS OF 1/S-403 AND 2/S-403.
8. FOR MULTI-SPAN CONTINUOUS LINTELS, MAINTAIN 16" MINIMUM CMU BETWEEN OPENINGS (U.O.N.).
9. SEE S-401 FOR MASONRY WALL BRACING REQUIREMENTS.
10. SEE WALL ELEVATIONS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
11. SEE THE PROJECT MANUAL FOR SLAB-ON GRADE CONTRACTION AND CONSTRUCTION JOINT SPACING. THE CONTRACTOR IS ENCOURAGED TO SUBMIT A SLAB PLAN SHOWING ALTERNATE SPACINGS AND LOCATIONS THAT ADAPTS TO THEIR PLANNED CONSTRUCTION SEQUENCE.
12. PROVIDE LINTEL AT RECESSED FIRE EXTINGUISHER CABINET. SEE TYPICAL CMU WALL OPENING AT RECESSED EQUIPMENT ON S-402.
13. PROVIDE LINTEL AT RECESSED ELECTRICAL PANEL BOARD. SEE TYPICAL CMU WALL OPENING AT RECESSED EQUIPMENT ON S-402.
14. SLAB-ON-GRADE SHALL BE 4" CONCRETE SLAB ON GRADE WITH 6x6-W2.1xW2.1 WWF (SHEETS ONLY) OVER VAPOR BARRIER AND 6" MIN. COMPACTED DRAINAGE FILL (TYP. U.O.N.).
15. PROVIDE 8" CONCRETE SLAB ON GRADE WITH #4 BOTTOM BARS AT 12" o.c. EACH WAY (3" COVER) AND 6x6-W2.1xW2.1 WWF TOP REINFORCING (SHEETS ONLY) OVER VAPOR BARRIER AND 6" MIN. COMPACTED DRAINAGE FILL.
16. LEGEND:
    - INDICATES SLAB DEPRESSION FROM FINISHED FLOOR ELEVATION. SEE THE PROJECT MANUAL FOR REQUIRED DEPRESSION.
    - PANEL XX — INDICATES MASONRY WALL SUPPORTED ON FOOTING. SEE S-401 FOR MASONRY WALL PANEL SCHEDULE
    - INDICATES THICKENED SLAB. SEE 6C/S-303.

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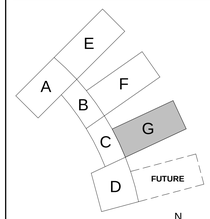
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TLF Job No: 2024-206



KEY PLAN

ISSUED FOR BID

TRACY A. CHARITON — REGISTERED — No. 10708203 — STATE OF INDIANA — PROFESSIONAL ENGINEER

DRAWN BY: TLF

PROJECT NUMBER: 224033.00

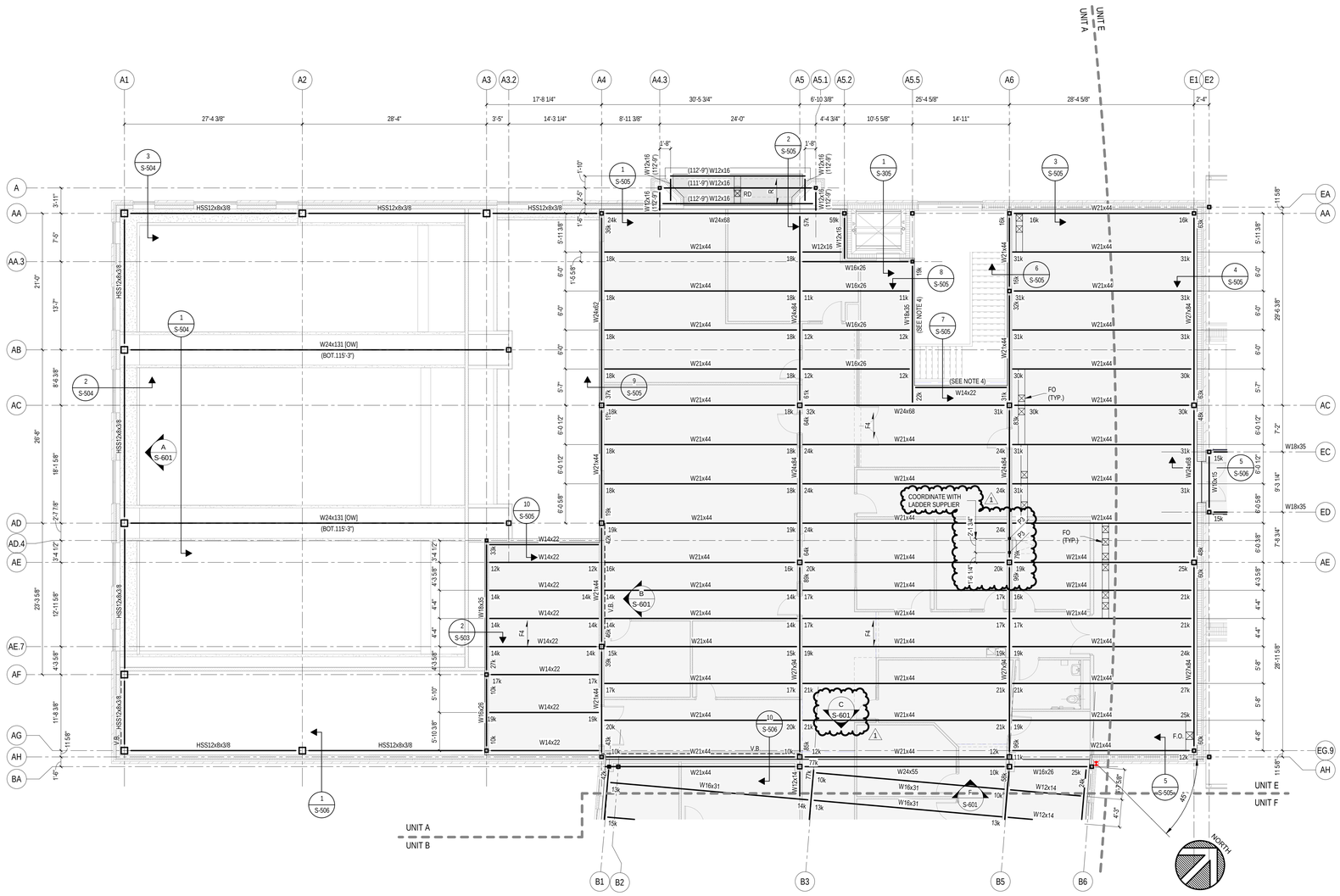
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

UNIT G - FIRST FLOOR SLAB AND MASONRY PLAN

S-117

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UNIT A - SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

NORTH

PLAN NOTES:

1. REFERENCE ELEVATION = TOP OF EXISTING FINISH FLOOR = 100'-0" (929.50' U.S.G.S.).
2. TOP OF STEEL (T/STEEL) ELEVATION = 113'-8" (U.O.N.).
3. TOP OF SLAB (T/SLAB) ELEVATION = 114'-0" (U.O.N.).
4. CHANNEL/PLATE GUARDRAIL SUPPORT ASSEMBLY IS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS). REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FRAMING PLAN NOTES:

1. SEE SHEETS S-001 AND S-002 FOR GENERAL NOTES.
2. SEE DRAWINGS S-501 THROUGH S-503 FOR TYPICAL STEEL FRAMING DETAILS. TYPICAL DETAILS MAY NOT BE CUT ON PLANS BUT APPLY UNLESS OTHERWISE NOTED.
3. SEE S-501 FOR TYPICAL STEEL FRAMING CONNECTIONS.
4. SEE S-401 FOR MASONRY WALL BRACING REQUIREMENTS
5. PROVIDE MINIMUM L3x3x1/4 (U.O.N.) ROOF EDGE SUPPORT ANGLES AT ALL ROOF EDGES AND ROOF EXPANSION JOINTS.

BEAM LEGEND:

(S) INDICATES SLOPED BEAM. ELEVATIONS AT ENDS ARE TOP OF SLOPED BEAM AT CENTERLINE COLUMN OR AT INTERSECTION WITH OTHER BEAMS.

(M) INDICATES "MITERED" BEAM. SEE MITERED BEAM (M).

(T) INDICATES TRANSFER BEAM - A BEAM WHICH SPANS BETWEEN TWO POINTS OF SUPPORT AND SUPPORTS ANOTHER BEAM OR COLUMN.

V.B. INDICATES VERTICAL BRACING (SEE ELEVATIONS).

K.B. INDICATES KNEE BRACE (SEE ELEVATIONS).

(SL) INDICATES SLIDE BEARING. SEE TYPICAL SLIDE BEARING.

(OW) INDICATES BEAM SUPPORTING OPERABLE WALL. COORDINATE LOCATION AND SIZE OF HOLES IN BOTTOM FLANGE OF BEAM WITH OPERABLE WALL SUPPLIER.

RV INDICATES FRAME REQUIRED FOR ROOF VENT. SEE TYP OPENING FRAME (RV). (VERIFY LOCATION WITH ROOF PLAN)

RD INDICATES FRAME REQUIRED FOR ROOF DRAIN. SEE TYP OPENING FRAME (RD). (VERIFY LOCATION WITH ROOF PLAN)

RH INDICATES FRAME REQUIRED FOR ROOF HATCH. SEE TYP OPENING FRAME (RH).

FO INDICATES FRAME REQUIRED FOR FLOOR OPENING. SEE TYP OPENING FRAME (FO).

PB INDICATES FRAME REQUIRED FLOR POUR BOX OPENING.

GLXxX INDICATES GLULAM FRAMING MEMBER.

PT4, PT6, ETC INDICATES POST - A COLUMN WHICH BEARS ON TOP OF A BEAM.

HG4, HG6, ETC INDICATES HANGER - A COLUMN WHICH IS SUPPORTED FROM THE BOTTOM OF A BEAM.

INDICATES BEAM SPLICE. SEE TYPICAL STEEL FRAMING DETAILS 1F.

F4 INDICATES DIRECTION OF FLOOR DECK SPAN (4" COMP. CONC., U.O.N.).

R INDICATES DIRECTION OF 1 1/2" ROOF DECK SPAN (WR20, U.O.N.).

TG INDICATES DIRECTION OF TONGUE AND GROOVE ROOF DECK SPAN.

INDICATES BEAM MOMENT CONNECTION.

10k W12x16 10k (110'-8 1/2") — INDICATES THAT THE W12x16 BEAM IS LEVEL WITH THE TOP FLANGE AT ELEVATION 110'-8 1/2" WITH A 10 KIP REACTION AT EACH END.

W12x16 HG4 PT4 — THE 'PT4' INDICATES A POST; A COLUMN BEARING ON THE TOP FLANGE OF THE BEAM BELOW. THE 'HG4' INDICATES A HANGER; A COLUMN BOLTED TO THE BOTTOM FLANGE OF THE BEAM INDICATED. SEE PLANS FOR POST AND HANGER MARKS.

W12x16 (S) (110'-0) (110'-11") — INDICATES THAT THE W12x16 BEAM IS SLOPED WITH THE TOP OF ITS FLANGE AT ELEVATION 110'-0" AND ELEVATION 110'-11", RESPECTIVELY, AT THE CENTERLINE OF THE TWO COLUMNS. THE BEAM FRAMES OVER THE TOP OF THE RIGHT COLUMN AND INTO THE SIDE OF THE LEFT COLUMN.

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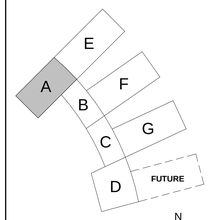
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KEY PLAN

ISSUED FOR BID



DRAWN BY: TLF

PROJECT NUMBER: 224033.00

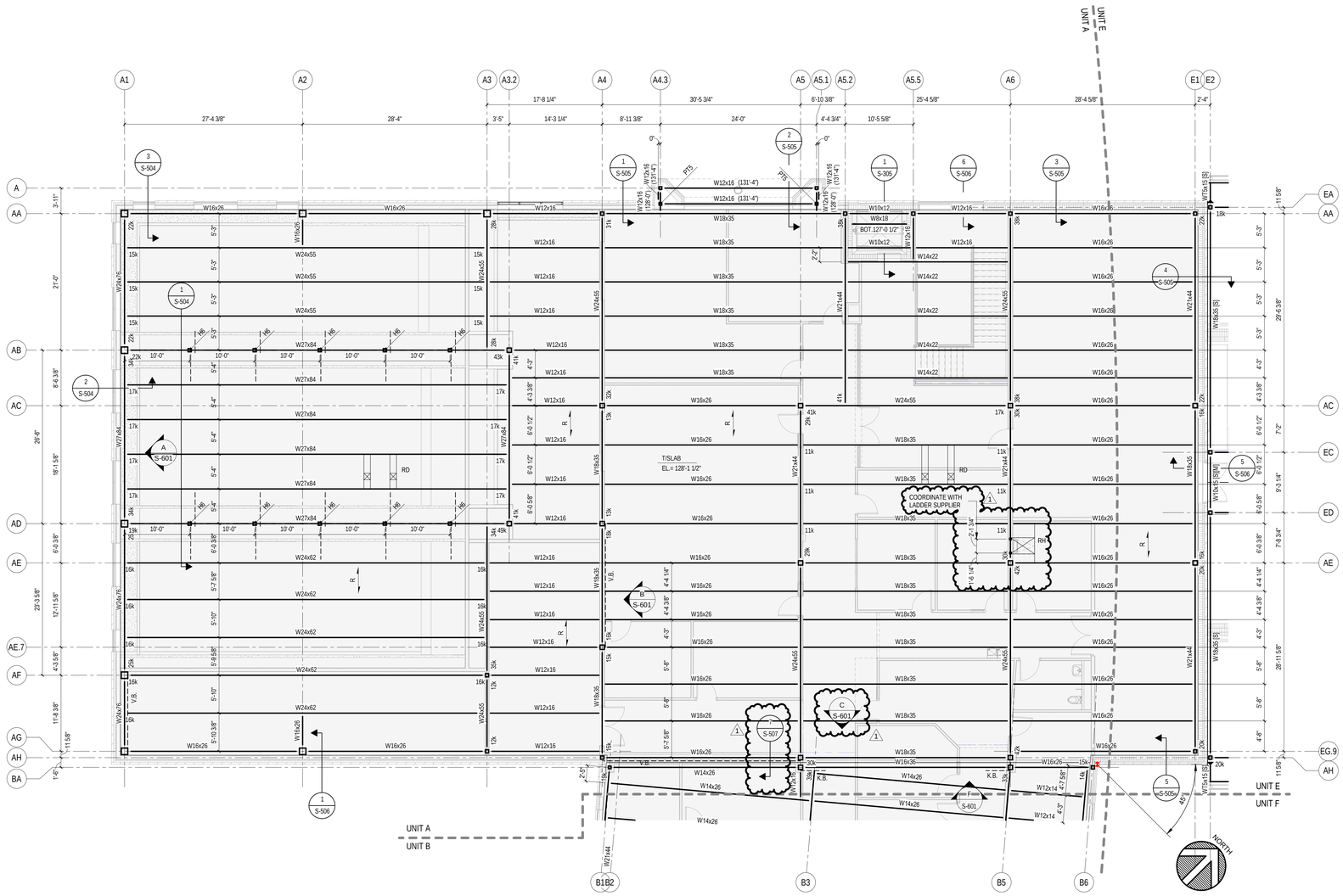
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

UNIT A - SECOND FLOOR FRAMING PLAN

S-201

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UNIT A - ROOF FRAMING PLAN

1/8" = 1'-0"

NORTH

PLAN NOTES:

1. REFERENCE ELEVATION = TOP OF EXISTING FINISH FLOOR = 100'-0" (929.50' U.S.G.S.).
2. TOP OF STEEL (T/STEEL) ELEVATION = 128'-0" (U.O.N.).

FRAMING PLAN NOTES:

1. SEE SHEETS S-001 AND S-002 FOR GENERAL NOTES.
2. SEE DRAWINGS S-501 THROUGH S-503 FOR TYPICAL STEEL FRAMING DETAILS. TYPICAL DETAILS MAY NOT BE CUT ON PLANS BUT APPLY UNLESS OTHERWISE NOTED.
3. SEE S-501 FOR TYPICAL STEEL FRAMING CONNECTIONS.
4. SEE S-401 FOR MASONRY WALL BRACING REQUIREMENTS
5. PROVIDE MINIMUM L3x3x1/4 (U.O.N.) ROOF EDGE SUPPORT ANGLES AT ALL ROOF EDGES AND ROOF EXPANSION JOINTS.

BEAM LEGEND:

(S) INDICATES SLOPED BEAM. ELEVATIONS AT ENDS ARE TOP OF SLOPED BEAM AT CENTERLINE COLUMN OR AT INTERSECTION WITH OTHER BEAMS.

(M) INDICATES "MITERED" BEAM. SEE MITERED BEAM (M).

(T) INDICATES TRANSFER BEAM - A BEAM WHICH SPANS BETWEEN TWO POINTS OF SUPPORT AND SUPPORTS ANOTHER BEAM OR COLUMN.

V.B. INDICATES VERTICAL BRACING (SEE ELEVATIONS).

K.B. INDICATES KNEE BRACE (SEE ELEVATIONS).

(SL) INDICATES SLIDE BEARING. SEE TYPICAL SLIDE BEARING.

(OW) INDICATES BEAM SUPPORTING OPERABLE WALL. COORDINATE LOCATION AND SIZE OF HOLES IN BOTTOM FLANGE OF BEAM WITH OPERABLE WALL SUPPLIER.

RV INDICATES FRAME REQUIRED FOR ROOF VENT. SEE TYP OPENING FRAME (RV). (VERIFY LOCATION WITH ROOF PLAN)

RD INDICATES FRAME REQUIRED FOR ROOF DRAIN. SEE TYP OPENING FRAME (RD). (VERIFY LOCATION WITH ROOF PLAN)

RH INDICATES FRAME REQUIRED FOR ROOF HATCH. SEE TYP OPENING FRAME (RH).

FO INDICATES FRAME REQUIRED FOR FLOOR OPENING. SEE TYP OPENING FRAME (FO).

PB INDICATES FRAME REQUIRED FLOR POUR BOX OPENING.

GLXxX INDICATES GLULAM FRAMING MEMBER.

PT4, PT6, ETC INDICATES POST - A COLUMN WHICH BEARS ON TOP OF A BEAM.

HG4, HG6, ETC INDICATES HANGER - A COLUMN WHICH IS SUPPORTED FROM THE BOTTOM OF A BEAM.

INDICATES BEAM SPLICE. SEE TYPICAL STEEL FRAMING DETAILS 1F.

F4 INDICATES DIRECTION OF FLOOR DECK SPAN (4" COMP. CONC., U.O.N.).

R INDICATES DIRECTION OF 1 1/2" ROOF DECK SPAN (WR20, U.O.N.).

TG INDICATES DIRECTION OF TONGUE AND GROOVE ROOF DECK SPAN.

INDICATES BEAM MOMENT CONNECTION.

10k W12x16 10k (110'-8 1/2") — INDICATES THAT THE W12x16 BEAM IS LEVEL WITH THE TOP FLANGE AT ELEVATION 110'-8 1/2" WITH A 10 KIP REACTION AT EACH END.

W12x16 HG4 PT4 — THE 'PT4' INDICATES A POST; A COLUMN BEARING ON THE TOP FLANGE OF THE BEAM BELOW. THE 'HG4' INDICATES A HANGER; A COLUMN BOLTED TO THE BOTTOM FLANGE OF THE BEAM INDICATED. SEE PLANS FOR POST AND HANGER MARKS.

W12x16 (S) (110'-0) (110'-11") — INDICATES THAT THE W12x16 BEAM IS SLOPED WITH THE TOP OF ITS FLANGE AT ELEVATION 110'-0" AND ELEVATION 110'-11", RESPECTIVELY, AT THE CENTERLINE OF THE TWO COLUMNS. THE BEAM FRAMES OVER THE TOP OF THE RIGHT COLUMN AND INTO THE SIDE OF THE LEFT COLUMN.

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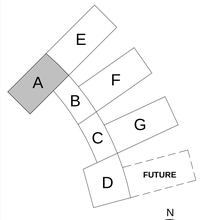
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TLF

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3901 West 86th Street, Suite 200
Indianapolis, Indiana 46268
Phone: 317-334-1500
Fax: 317-334-1552
TLF Job No: 2024-206



KEY PLAN

ISSUED FOR BID



DRAWN BY: TLF

PROJECT NUMBER: 224033.00

PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

UNIT A - ROOF FRAMING PLAN

S-211

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UNIT B - ROOF FRAMING PLAN

1/8" = 1'-0"

NORTH

PLAN NOTES:

1. REFERENCE ELEVATION = TOP OF EXISTING FINISH FLOOR = 100'-0" (929.50' U.S.G.S.).
2. TOP OF STEEL (T/STEEL) ELEVATION = 128'-0" (U.O.N.).

FRAMING PLAN NOTES:

1. SEE SHEETS S-001 AND S-002 FOR GENERAL NOTES.
2. SEE DRAWINGS S-501 THROUGH S-503 FOR TYPICAL STEEL FRAMING DETAILS. TYPICAL DETAILS MAY NOT BE CUT ON PLANS BUT APPLY UNLESS OTHERWISE NOTED.
3. SEE S-501 FOR TYPICAL STEEL FRAMING CONNECTIONS.
4. SEE S-401 FOR MASONRY WALL BRACING REQUIREMENTS
5. PROVIDE MINIMUM L3x3x1/4 (U.O.N.) ROOF EDGE SUPPORT ANGLES AT ALL ROOF EDGES AND ROOF EXPANSION JOINTS.

BEAM LEGEND:

(S) INDICATES SLOPED BEAM. ELEVATIONS AT ENDS ARE TOP OF SLOPED BEAM AT CENTERLINE COLUMN OR AT INTERSECTION WITH OTHER BEAMS.

(M) INDICATES "MITERED" BEAM. SEE MITERED BEAM (M).

(T) INDICATES TRANSFER BEAM - A BEAM WHICH SPANS BETWEEN TWO POINTS OF SUPPORT AND SUPPORTS ANOTHER BEAM OR COLUMN.

V.B. INDICATES VERTICAL BRACING (SEE ELEVATIONS).

K.B. INDICATES KNEE BRACE (SEE ELEVATIONS).

(SL) INDICATES SLIDE BEARING. SEE TYPICAL SLIDE BEARING.

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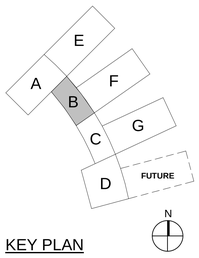
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Indianapolis, Indiana 46268
Phone: 317-334-1500
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TLF Job No: 2024-206



KEY PLAN

ISSUED FOR BID

NANCY A. CHARITON REGISTERED No. 10708203 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: TLF

PROJECT NUMBER: 224033.00

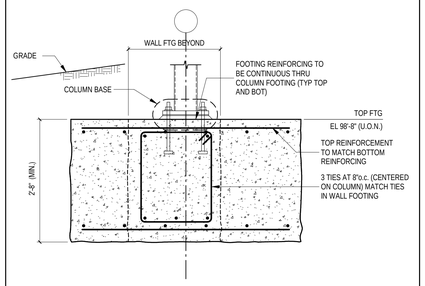
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

UNIT B - ROOF FRAMING PLAN

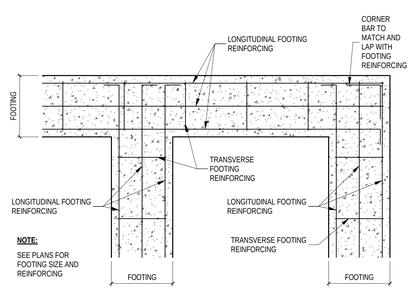
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14 EXTERIOR FOOTING AT COLUMN (EF)

N.T.S.



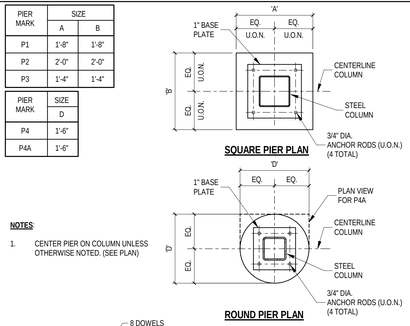
NOTE:
SEE PLANS FOR FOOTING SIZE AND REINFORCING

10 TYPICAL FOOTING REINFORCING AT CORNERS

N.T.S.

PIER MARK	SIZE A	SIZE B
P1	1'-8"	1'-8"
P2	2'-0"	2'-0"
P3	1'-4"	1'-4"

PIER MARK	SIZE D
P4	1'-6"
P4A	1'-6"

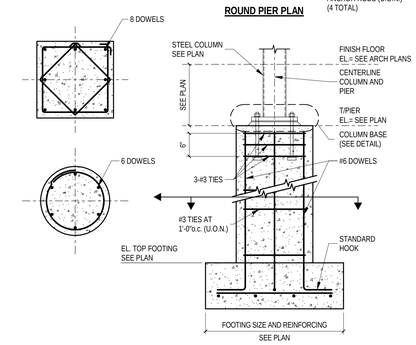


SQUARE PIER PLAN

ROUND PIER PLAN

NOTES:

1. CENTER PIER ON COLUMN UNLESS OTHERWISE NOTED. (SEE PLAN)

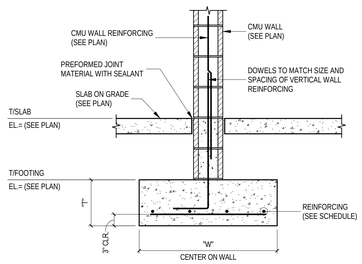


SECTION

7 TYPICAL PIER DETAIL

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

INTERIOR WALL FOOTING SCHEDULE			2000 PSF ALLOWABLE SOIL BEARING PRESSURE	
FTG MARK	DIMENSIONS		REINFORCING	
	"W"	"T"	LONGITUDINAL	TRANSVERSE
WF-2	2'-0"	1'-0"	(3)-#5 BARS CONT.	#4 BARS AT 24"o.c.
WF-2.5	2'-6"	1'-0"	(4)-#5 BARS CONT.	#4 BARS AT 24"o.c.
WF-3	3'-0"	1'-2"	(4)-#5 BARS CONT.	#4 BARS AT 24"o.c.
WF-4	4'-0"	1'-4"	(5)-#6 BARS CONT.	#5 BARS AT 24"o.c.
WF-4.5	4'-6"	1'-4"	(5)-#6 BARS CONT.	#5 BARS AT 24"o.c.
WF-5	5'-0"	1'-6"	(6)-#6 BARS CONT.	#5 BARS AT 24"o.c.
WF-6	6'-0"	2'-0"	(7)-#6 BARS CONT.	#5 BARS AT 12"o.c.



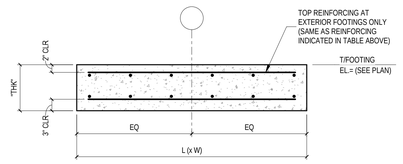
NOTES:

1. PROVIDE PARTIAL HEIGHT STARTER COURSE AS REQUIRED.
2. MASONRY COURSING SHALL MATCH TOP OF SLAB ELEVATION UNLESS OTHERWISE NOTED.
3. FULLY GROUT ALL MASONRY CELLS BELOW THE TOP OF SLAB ELEVATION.

4 TYPICAL INTERIOR WALL FOOTING DETAIL

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

FOOTING SCHEDULE		2500 PSF ALLOWABLE SOIL BEARING PRESSURE	
MARK	SIZE (L x W x H*)	REINFORCING STEEL	REMARKS
F3	3'-0" x 3'-0" x 1'-0"	(4)-#5 EACH WAY	-
F3.5	3'-6" x 3'-6" x 1'-0"	(4)-#5 EACH WAY	-
F4	4'-0" x 4'-0" x 1'-0"	(5)-#5 EACH WAY	-
F4.5	4'-6" x 4'-6" x 1'-0"	(5)-#5 EACH WAY	-
F5	5'-0" x 5'-0" x 1'-0"	(6)-#5 EACH WAY	-
F6	6'-0" x 6'-0" x 1'-2"	(7)-#6 EACH WAY	-
F6.5	6'-6" x 6'-6" x 1'-2"	(7)-#6 EACH WAY	-
F7	7'-0" x 7'-0" x 1'-4"	(8)-#6 EACH WAY	-
F7.5	7'-6" x 7'-6" x 1'-4"	(8)-#6 EACH WAY	-
F8	8'-0" x 8'-0" x 1'-6"	(9)-#6 EACH WAY	-
F9	9'-0" x 9'-0" x 1'-6"	(10)-#6 EACH WAY	-
F10	10'-0" x 10'-0" x 1'-9"	(11)-#7 EACH WAY	-
F10-6	10'-0" x 6'-0" x 1'-6"	(7)-#6 LONGITUDINAL (11)-#6 TRANSVERSE	-
F12-8	12'-0" x 8'-0" x 1'-6"	(9)-#7 LONGITUDINAL (13)-#7 TRANSVERSE	



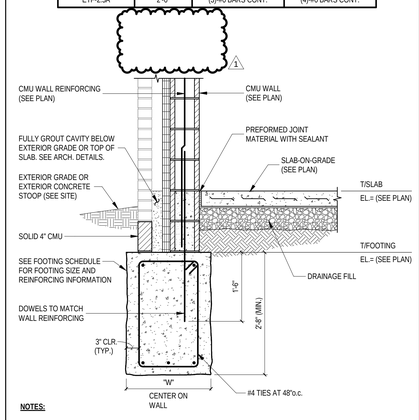
FOUNDATION SCHEDULE NOTES:

1. ALL FOUNDATIONS SHALL BE CLASS 'B' CONCRETE.
2. SEE CONCRETE COLUMN AND/OR PIER SCHEDULES FOR DOWELS AT COLUMNS.
3. SEE TYPICAL SECTIONS FOR WALL REINFORCEMENT DOWELS.
4. (*) EXTERIOR COLUMN FOOTINGS (EFX) TO HAVE SAME LENGTH AND WIDTH AS SHOWN IN TABLE. SEE TYPICAL EXTERIOR FOOTING AT COLUMN DETAIL 14/S-301 FOR THICKNESS.

1 FOUNDATION SCHEDULE

N.T.S.

EXTERIOR TRENCH FOOTING SCHEDULE			
FTG MARK	DIMENSIONS	REINFORCING	
	"W"	TOP	BOTTOM
ETF-2.5A	2'-6"	(3)-#6 BARS CONT.	(4)-#6 BARS CONT.

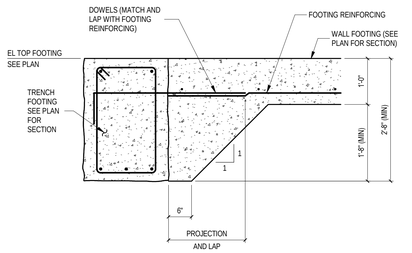


NOTES:

1. USE CONCRETE BRICK ABOVE FOOTING TO MAINTAIN FACE BRICK AT GRADE.
2. SEE PLAN FOR FOOTING MARK AND TOP OF FOOTING ELEVATION.
3. FOOTINGS SHALL BE EXCAVATED TO CREATE VERTICAL FACES TO INDICATED DIMENSIONS WITHIN THE TOLERANCE OF +6" AND -0".
4. GROUT ALL CORES OF CMU BELOW FINISHED FLOOR.

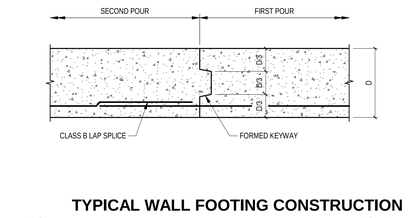
15 TYPICAL EXTERIOR TRENCH FOOTING DETAIL (ETF-2.5A)

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



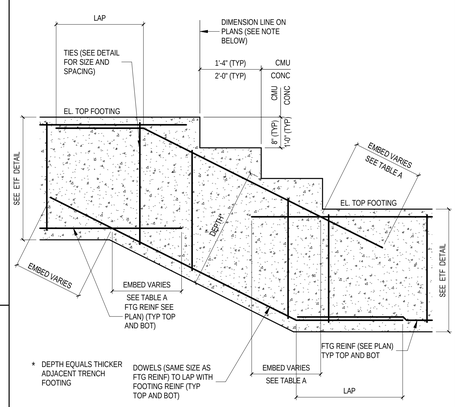
11 FOOTING TRANSITION (FT)

N.T.S.



12 TYPICAL WALL FOOTING CONSTRUCTION JOINT

N.T.S.



* DEPTH EQUALS THICKER ADJACENT TRENCH FOOTING

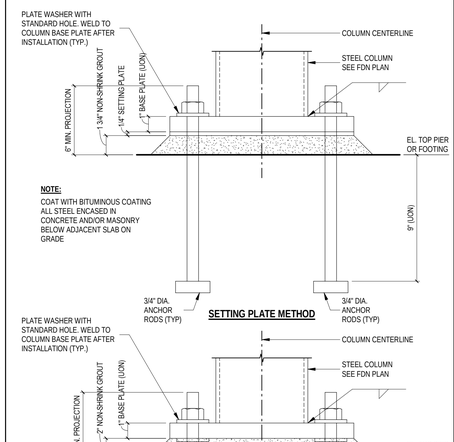
DOWELS (SAME SIZE AS FTG REINF) TO LAP WITH FOOTING REINF (TYP TOP AND BOT)

TABLE A		
FOOTING REINFORCING	LAP LENGTH	EMBEDMENT LENGTH
#4	1'-8"	1'-0"
#5	2'-0"	1'-0"
#6	2'-6"	1'-3"
#7	3'-6"	1'-9"

NOTE:
DIMENSIONS ON PLANS MAY VARY 1'-0" +/- TO MATCH CMU MODULAR DIMENSIONS

8 TYPICAL STEPPED TRENCH FOOTING

N.T.S.



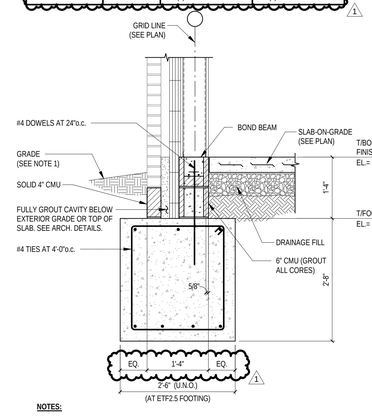
NOTE:
COAT WITH BITUMINOUS COATING ALL STEEL ENCASED IN CONCRETE AND/OR MASONRY BELOW ADJACENT SLAB ON GRADE

NOTE:
COAT WITH BITUMINOUS COATING ALL STEEL ENCASED IN CONCRETE AND/OR MASONRY BELOW ADJACENT SLAB ON GRADE

5 TYPICAL COLUMN BASE

SCALE: 3" = 1'-0"

EXTERIOR TRENCH FOOTING SCHEDULE			
FTG MARK	DIMENSIONS	REINFORCING	
	"W"	TOP	BOTTOM
ETF-2	2'-0"	(2)-#6 BARS CONT.	(3)-#6 BARS CONT.
ETF-2.5	2'-6"	(3)-#6 BARS CONT.	(4)-#6 BARS CONT.
ETF-3	3'-0"	(3)-#6 BARS CONT.	(4)-#6 BARS CONT.
ETF-4.5	4'-6"	(3)-#6 BARS CONT.	(5)-#6 BARS CONT.
ETF-5	5'-0"	(5)-#6 BARS CONT.	(7)-#6 BARS CONT.

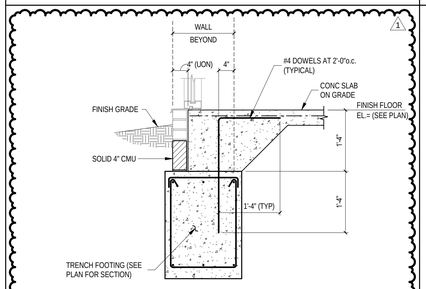


NOTES:

1. USE CONCRETE BRICK ABOVE FOOTING TO MAINTAIN FACE BRICK AT GRADE.
2. SEE PLAN FOR FOOTING MARK AND TOP OF FOOTING ELEVATION.
3. PROVIDE "ETF–2" FOOTING UNLESS OTHERWISE NOTED (U.O.N.).
4. FOOTINGS SHALL BE EXCAVATED TO CREATE VERTICAL FACES TO INDICATED DIMENSIONS WITHIN THE TOLERANCE OF +6" AND -0".
5. GROUT ALL CORES OF CMU BELOW FINISHED FLOOR.

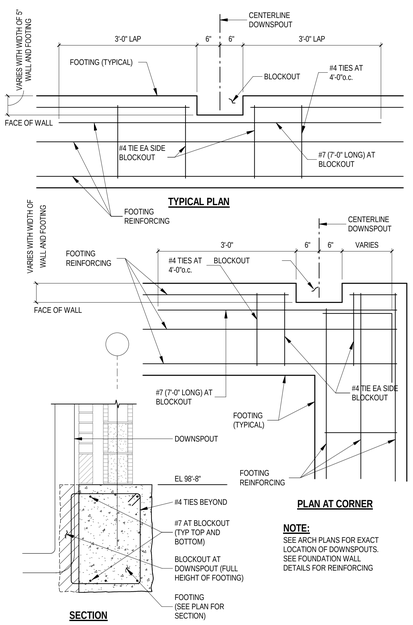
2 TYPICAL EXTERIOR TRENCH FOOTING DETAIL (ETF)

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



16 TYPICAL SLAB AT STOREFRONT/CURTAINWALL

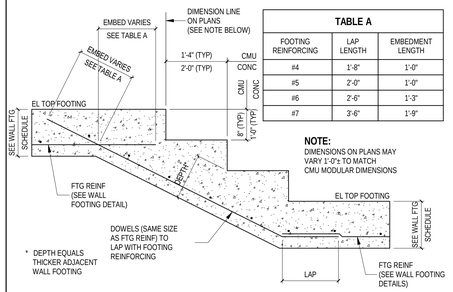
N.T.S.



NOTE:
SEE ARCH PLANS FOR EXACT LOCATION OF DOWNSPOUTS. SEE FOUNDATION WALL DETAILS FOR REINFORCING

13 TRENCH FOOTING AT DOWNSPOUT

N.T.S.



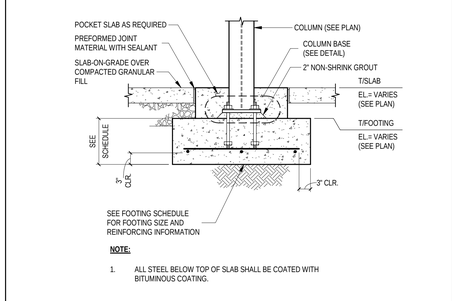
* DEPTH EQUALS THICKER ADJACENT WALL FOOTING

TABLE A		
FOOTING REINFORCING	LAP LENGTH	EMBEDMENT LENGTH
#4	1'-8"	1'-0"
#5	2'-0"	1'-0"
#6	2'-6"	1'-3"
#7	3'-6"	1'-9"

NOTE:
DIMENSIONS ON PLANS MAY VARY 1'-0"± TO MATCH CMU MODULAR DIMENSIONS

9 TYPICAL STEPPED FOOTING

N.T.S.

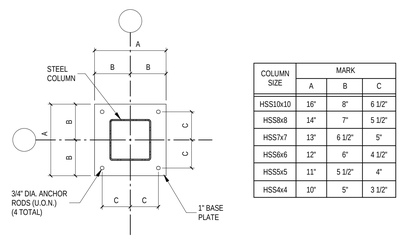


NOTE:

1. ALL STEEL BELOW TOP OF SLAB SHALL BE COATED WITH BITUMINOUS COATING.

6 TYPICAL INTERIOR COLUMN FOOTING DETAIL

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



COLUMN SIZE	MARK A	MARK B	MARK C
HSS10x10	16"	8"	6 1/2"
HSS8x8	14"	7"	5 1/2"
HSS7x7	13"	6 1/2"	5"
HSS6x6	12"	6"	4 1/2"
HSS5x5	11"	5 1/2"	4"
HSS4x4	10"	5"	3 1/2"

3 TYPICAL BASE PLATE

SCALE: 1" = 1'-0"

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TLF Job No: 2024-206

ISSUED FOR BID



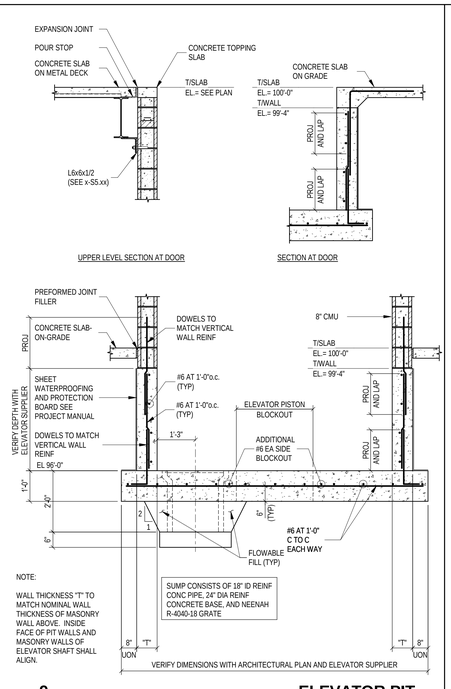
DRAWN BY: TLF
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FOUNDATION DETAILS

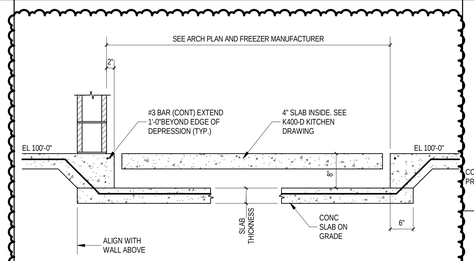
S-301

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9 ELEVATOR PIT

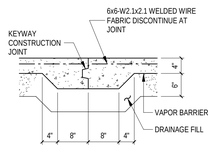
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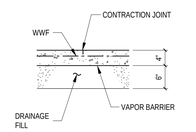
10 SLAB AT FREEZER/COOLER

N.T.S.

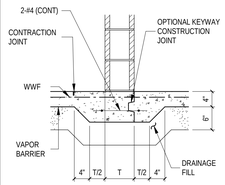
A. TYPICAL CONSTRUCTION JOINT



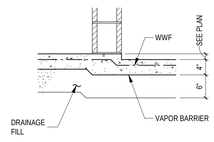
B. TYPICAL CONTRACTION JOINT



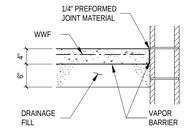
C. TYPICAL THICKENED SLAB



D. TYP. DEPRESSED SLAB EDGE AT WALL



E. TYPICAL SLAB AT WALL



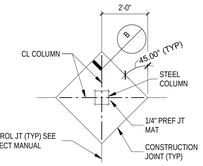
NOTES:

1. ALL CONCRETE FOR SLAB ON GRADE SHALL BE F'c = 3500 PSI AT 28 DAYS.
2. WELDED WIRE FABRIC TO BE DEPRESSED OR LAPPED AT ALL DEPRESSIONS.

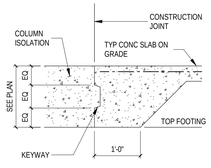
6 TYPICAL 4" CONCRETE SLAB ON GRADE

N.T.S.

A. COLUMN ON ISOLATED FOOTING



B. CONSTRUCTION JT AT FOOTING

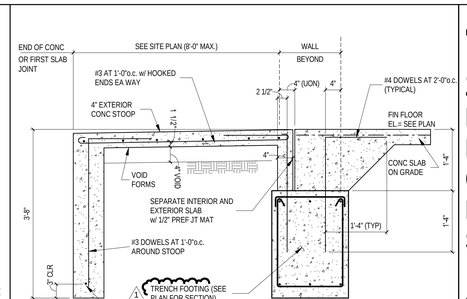


NOTES:

1. SEE THE PROJECT MANUAL FOR CONTROL JOINT AND CONSTRUCTION JOINT REQUIREMENTS
2. THICKEN SLAB WITHIN ISOLATION AT COLUMNS TO FULLY ENCASE COLUMN BASE PLATES AND ANCHOR RODS IN CONCRETE
3. 24" DIAMETER FORM WITH KEYWAY MAY BE SUBSTITUTED FOR SQUARE CONSTRUCTION JOINT SHOWN

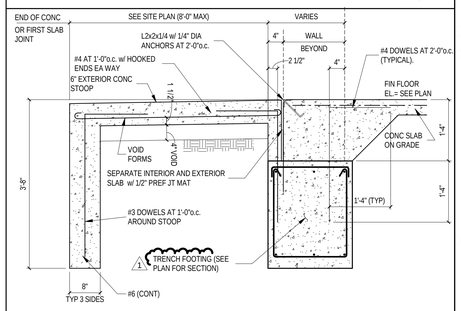
7 TYPICAL SLAB ISOLATION

N.T.S.



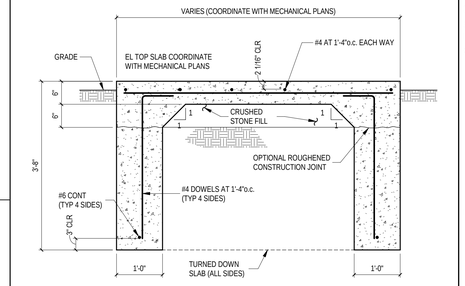
1 TYPICAL CONCRETE STOOP

N.T.S.



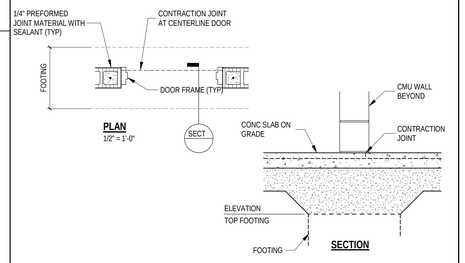
2 CONCRETE STOOP AT OVERHEAD DOOR

N.T.S.



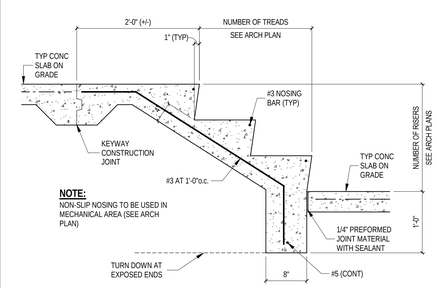
3 TYPICAL EXTERIOR MECHANICAL SLAB

N.T.S.



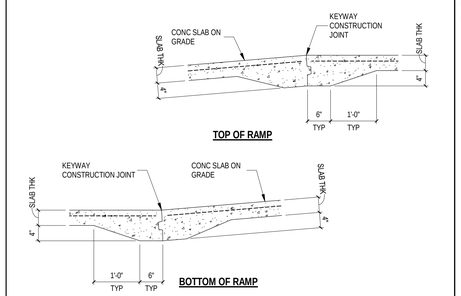
4 TYPICAL SLAB AT INTERIOR OPENING

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



8 TYPICAL INTERIOR STEPS

N.T.S.



5 CONCRETE RAMP

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

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350 E NEW YORK ST #300, INDIANAPOLIS, IN 46204

CONSULTANT

TLF, INC.
3901 West 86th Street, Suite 200
Indianapolis, Indiana 46268
Phone: 317-334-1500
Fax: 317-334-1552
TLF Job No: 2024-206

ISSUED FOR BID

TRACY A. CHARITON REGISTERED No. 10708203 STATE OF INDIANA PROFESSIONAL ENGINEER

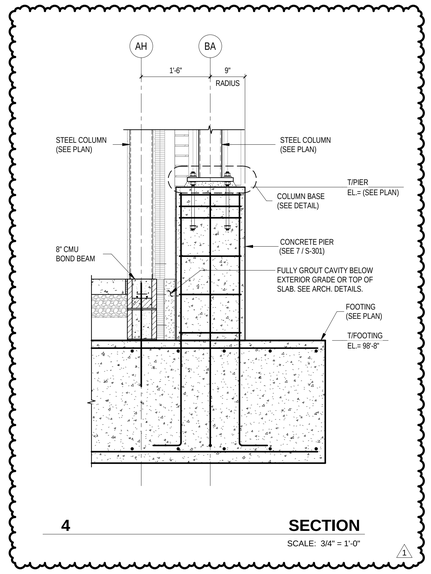
DRAWN BY: TLF
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FOUNDATION AND SLAB DETAILS

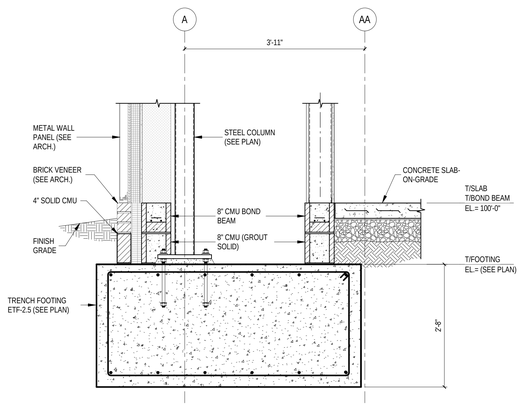
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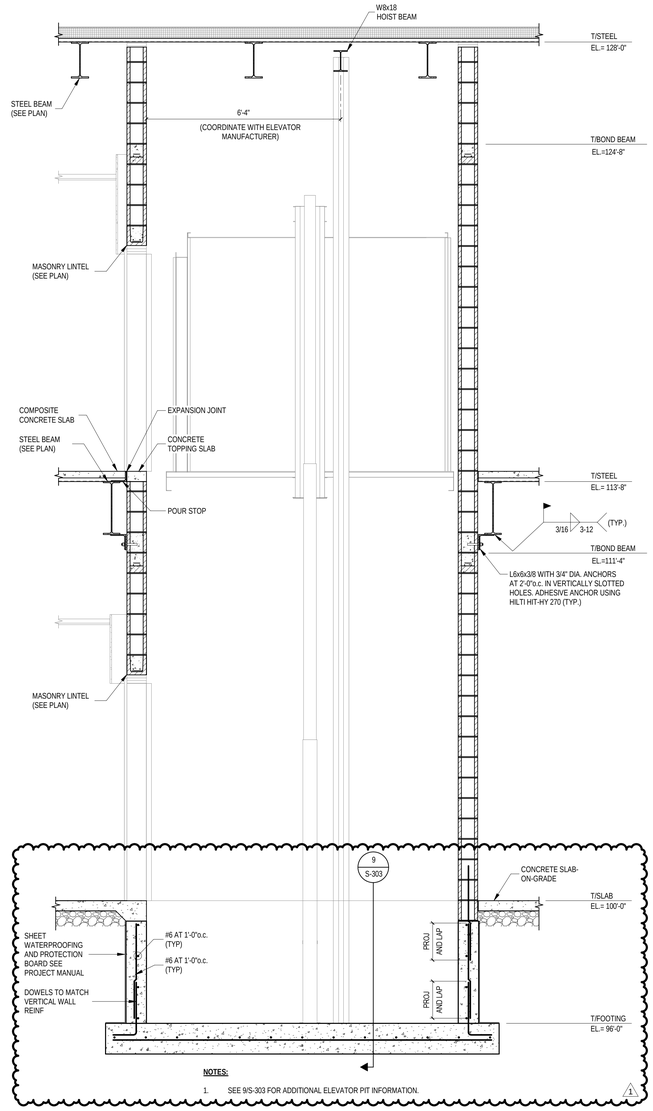
4 SECTION

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



3 SECTION

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

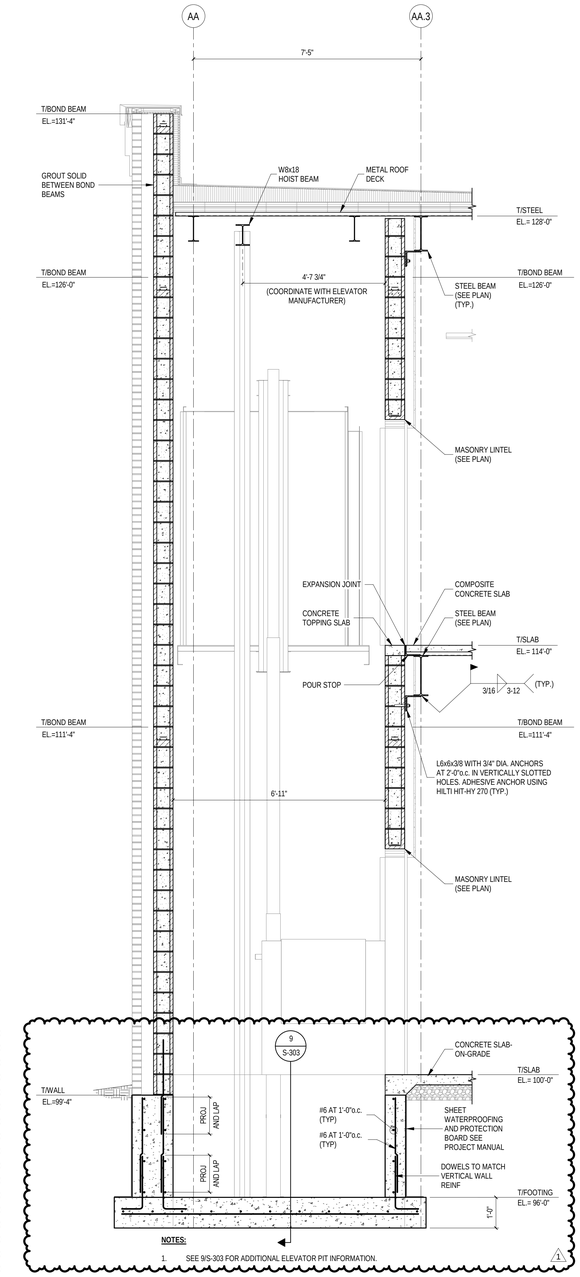


NOTES:

1. SEE 9/S-303 FOR ADDITIONAL ELEVATOR PIT INFORMATION.

2 SECTION

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

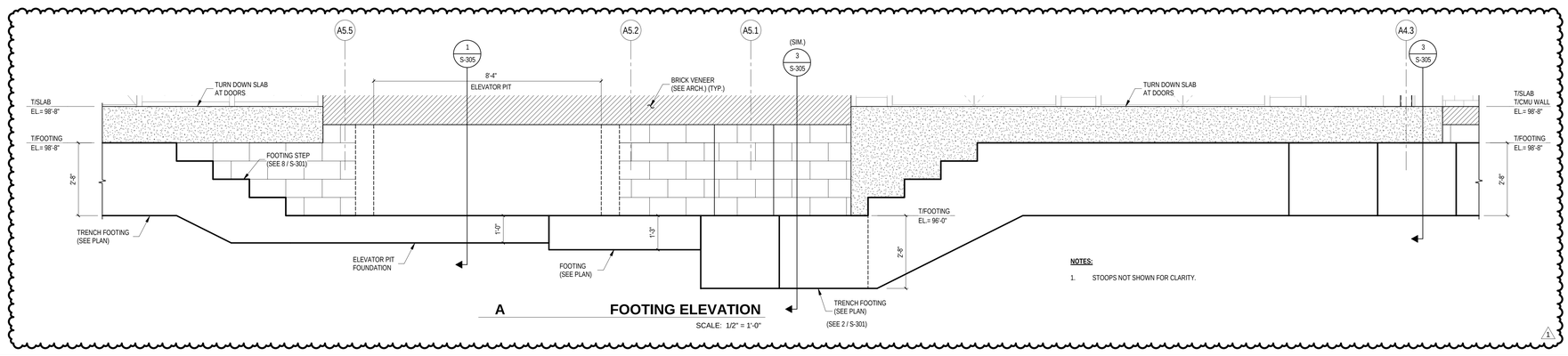


NOTES:

1. SEE 9/S-303 FOR ADDITIONAL ELEVATOR PIT INFORMATION.

1 SECTION

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



A FOOTING ELEVATION

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

NOTES:

1. STOOPS NOT SHOWN FOR CLARITY.

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TLF Job No: 2024-206

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TRACY A. CHARITON REGISTERED No. 10700203 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: TLF

PROJECT NUMBER: 224033.00

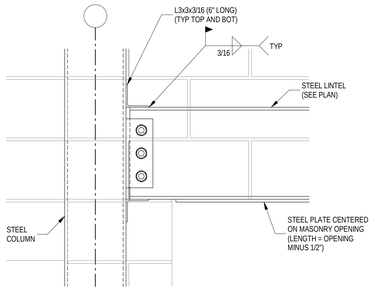
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

SECTIONS AND DETAILS

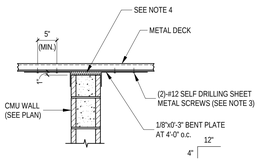
S-305

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9 **TORSION END CONNECTION (TE)**

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

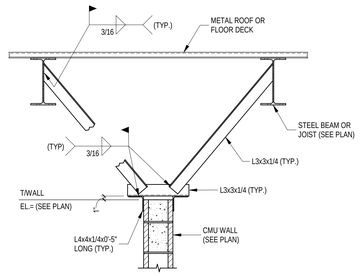


NOTES:

1. PROVIDE LATERAL SUPPORT FOR CMU WALL AT 4'-0"o.c. ALONG THE LENGTH OF THE WALL FOR ALL MASONRY WALLS THAT EXTEND FOR MORE THAN 18 TIMES THE WALL THICKNESS BETWEEN BRACING INSTERSECTING WALLS OR THAT DO NOT HAVE BRACING INTERSECTING WALLS AT BOTH ENDS.
2. ADDITIONAL LATERAL SUPPORT IS NOT REQUIRED WITHIN 6'-0" OF BRACING INTERSECTING WALLS.
3. PROVIDE A SINGLE 3/8" DIA. EXPANSION ANCHOR (2 1/2" EMBED.) ON EITHER SIDE OF TEH CMU WALL AT LOCATIONS WHERE METAL DECK SUPPORTS A CONCRETE FLOOR SLAB.
4. FILL DECK FLUTES WITH BATT INSULATION. PACK FIRE SAFING MATERIAL TIGHT INTO EACH DECK FLUTE AT FIRE RATED WALLS.

6 **MASONRY WALL LATERAL SUPPORT DETAIL AT METAL DECK**

N.T.S.

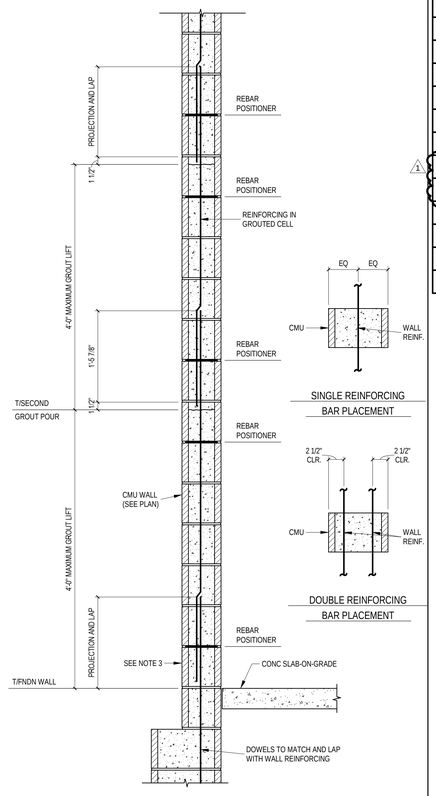


NOTES:

1. PROVIDE LATERAL SUPPORT FOR CMU WALL AT 4'-0"o.c. ALONG THE LENGTH OF THE WALL FOR ALL MASONRY WALLS THAT EXTEND FOR MORE THAN 18 TIMES THE WALL THICKNESS BETWEEN BRACING INSTERSECTING WALLS OR THAT DO NOT HAVE BRACING INTERSECTING WALLS AT BOTH ENDS.
2. ADDITIONAL LATERAL SUPPORT IS NOT REQUIRED WITHIN 6'-0" OF BRACING INTERSECTING WALLS.

7 **MASONRY WALL LATERAL SUPPORT DETAIL AT PARTIAL HEIGHT WALLS**

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



NOTES:

1. SEE PLANS FOR REINFORCING REQUIREMENTS.
2. MULTI-WYTHE WALLS MAY REQUIRE REINFORCING IN EACH WYTHE.
3. 3"x3" MINIMUM CUT MASONRY INSPECTION AND CLEANOUT HOLE AT REINFORCING. (REQUIRED FOR GROUT POUR HEIGHTS GREATER THAN 5'-0")
4. SEE GENERAL NOTES FOR MASONRY REINFORCING LAP LENGTHS.

3 **TYPICAL REINFORCED CMU WALL DETAIL**

N.T.S.

MASONRY WALL PANEL SCHEDULE

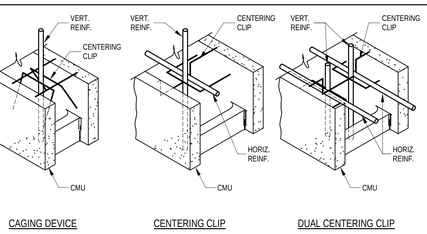
MARK	NOM. CMU	VERTICAL REINFORCING		TOP/BOND BEAM ELEVATION	REMARKS
		SIZE	SPACING		
A1	8"	#5	48"	111'-4", 126'-0", 131'-4"	NOTE 2
A2	8"	#5	48"	111'-4", 126'-0", 131'-4"	NOTE 3
A3	8"	#5	48"	111'-4", 126'-0"	NOTE 3
B1	8"	#5	48"	111'-4", 126'-0", 131'-4"	NOTE 2
C1	8"	#5	48"	111'-4", 126'-0", 131'-4"	NOTE 2
C2	8"	#5	48"	111'-4", 126'-0"	NOTE 2
C3	8"	#5	48"	111'-4", 126'-0"	NOTE 3
D1	8"	#5	48"	111'-4", 116'-0"	NOTE 2
D2	8"	#5	48"	111'-4"	NOTE 1
D3	8"	#5	32"	108'-8"	NOTE 3

NOTES:

1. GROUT SOLID FROM HIGHEST BOND BEAM TO TOP OF WALL.
2. GROUT WALL SOLID BETWEEN TOP TWO BOND BEAMS.
3. GROUT WALL SOLID.
4. GROUT ALL COURSES BELOW FINISHED FLOOR.

1 **MASONRY WALL PANEL SCHEDULE**

N.T.S.



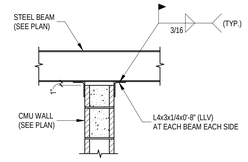
CAGING DEVICE CENTERING CLIP DUAL CENTERING CLIP

NOTES:

1. CAGING DEVICES AND CENTERING CLIPS SHALL BE FORMED FROM #9 WIRE, SPOT WELDED AND GALVANIZED.
2. REINFORCEMENT SHALL BE CENTERED IN CELLS (U.O.N.).

4 **TYPICAL CMU REINFORCEMENT POSITIONING DETAILS**

N.T.S.

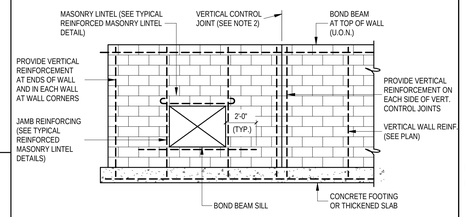


NOTES:

1. PROVIDE LATERAL SUPPORT FOR CMU WALL AT 4'-0"o.c. ALONG THE LENGTH OF THE WALL FOR ALL MASONRY WALLS THAT EXTEND FOR MORE THAN 18 TIMES THE WALL THICKNESS BETWEEN BRACING INSTERSECTING WALLS OR THAT DO NOT HAVE BRACING INTERSECTING WALLS AT BOTH ENDS.
2. ADDITIONAL LATERAL SUPPORT IS NOT REQUIRED WITHIN 6'-0" OF BRACING INTERSECTING WALLS.

5 **MASONRY WALL LATERAL SUPPORT DETAIL AT STEEL BEAMS**

N.T.S.

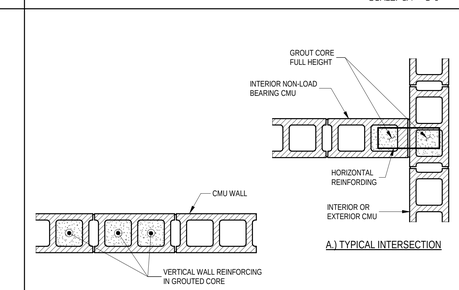


NOTES:

1. IN ADDITION TO THE MASONRY WALL REINFORCEMENT SHOWN, ALL MASONRY WALLS SHALL HAVE CONTINUOUS GALVANIZED LADDER TYPE HORIZONTAL JOINT REINFORCING WITH MINIMUM 9 GAUGE SIDE RODS AT 16"o.c. UNLESS OTHERWISE NOTED.
2. CONTROL JOINTS FOR REINFORCED CMU WALLS SHALL BE LOCATED AS SHOWN ON THE PLANS.
3. SEE TYPICAL HORIZONTAL JOINT REINFORCING DETAILS FOR ADDITIONAL REQUIREMENTS.
4. SEE PLANS AND WALL PANEL SCHEDULE FOR VERTICAL REINFORCING BAR SIZE AND SPACING.
5. SEE TYPICAL LINTEL BEARING DETAILS FOR MASONRY REINFORCING AT OPENINGS WITH LINTELS.
6. PROVIDE BOND BEAMS AT TOP OF WALL AND AT 10' o.c. U.O.N.
7. PROVIDE (2) BARS EACH SIDE OF ALL OPENINGS ON WALLS GREATER THAN 20 FEET TALL.

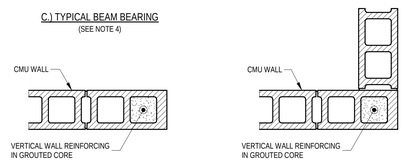
2 **TYPICAL CMU WALL REINFORCEMENT ELEVATION**

N.T.S.



A.) TYPICAL INTERSECTION

C.) TYPICAL BEAM BEARING
(SEE NOTE 4)



D.) TYPICAL JAMB B.) TYPICAL CORNER

NOTES:

1. REINFORCING SHOWN IN ADDITION TO REINFORCING SHOWN ON PLANS AND SPECIAL DETAILS.
2. REINFORCING TO BE SAME SIZE AS ADJACENT WALL REINFORCING INDICATED ON PLANS.
3. TYPICAL DETAILS APPLIES TO ALL EXTERIOR WALLS, INTERIOR LOAD BEARING WALLS, AND ALL WALLS SCHEDULED TO BE REINFORCED.
4. SEE TYPICAL STEEL BEAM BEARING ON NEW MASONRY DETAIL FOR ADDITIONAL REQUIREMENTS.

8 **TYPICAL VERTICAL CMU WALL REINFORCING DETAILS**

N.T.S.

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TLF Job No: 2024-206

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TRACY A. CHARTON REGISTERED No. 10708903 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: TLF

PROJECT NUMBER: 224033.00

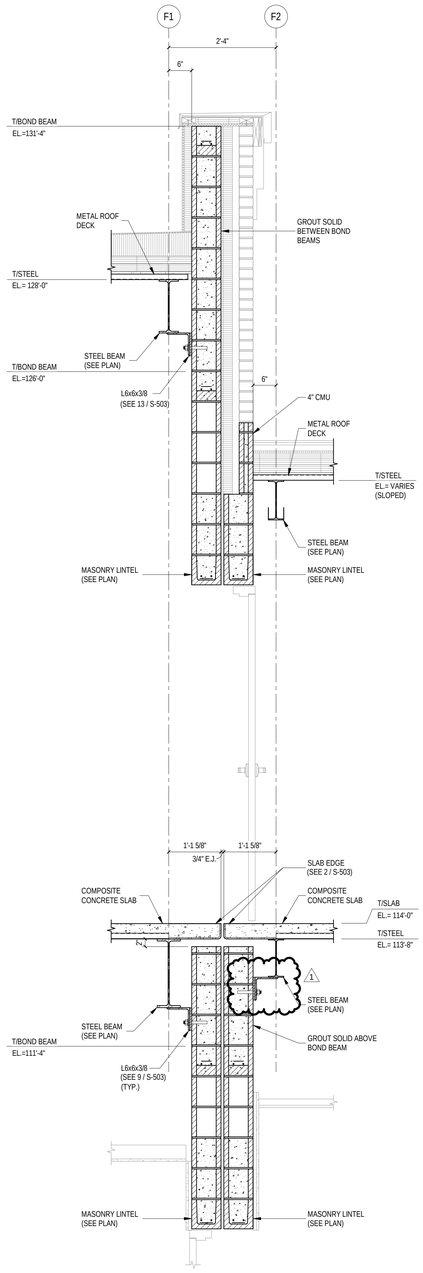
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

MASONRY DETAILS

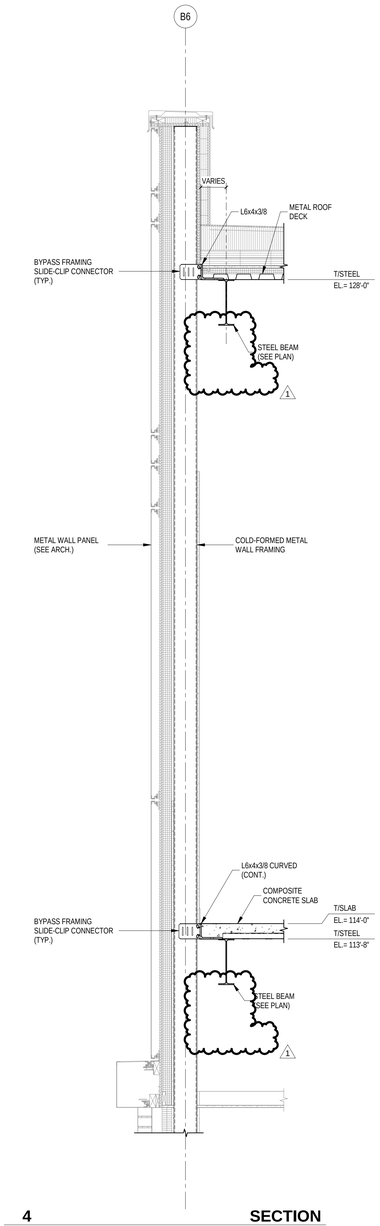
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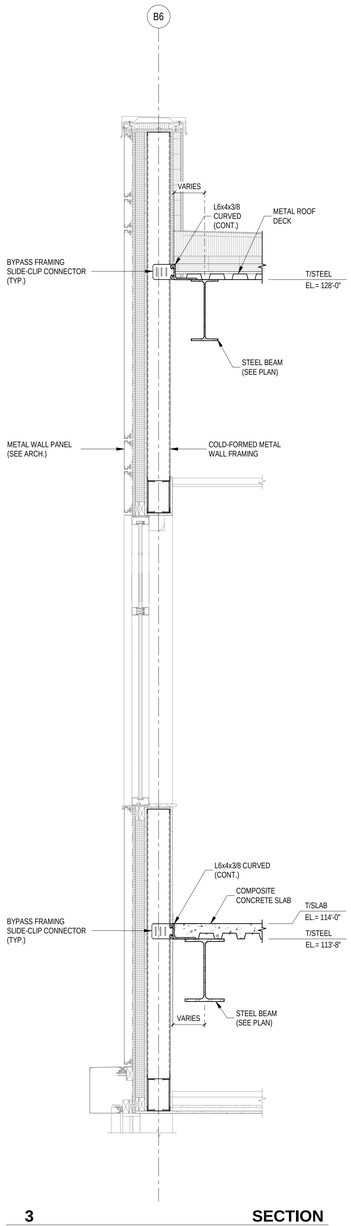
5 **SECTION**

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



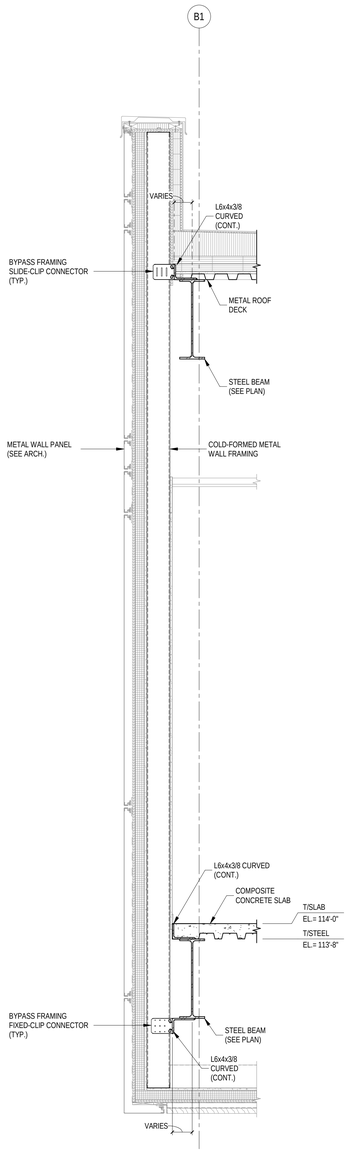
4 **SECTION**

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



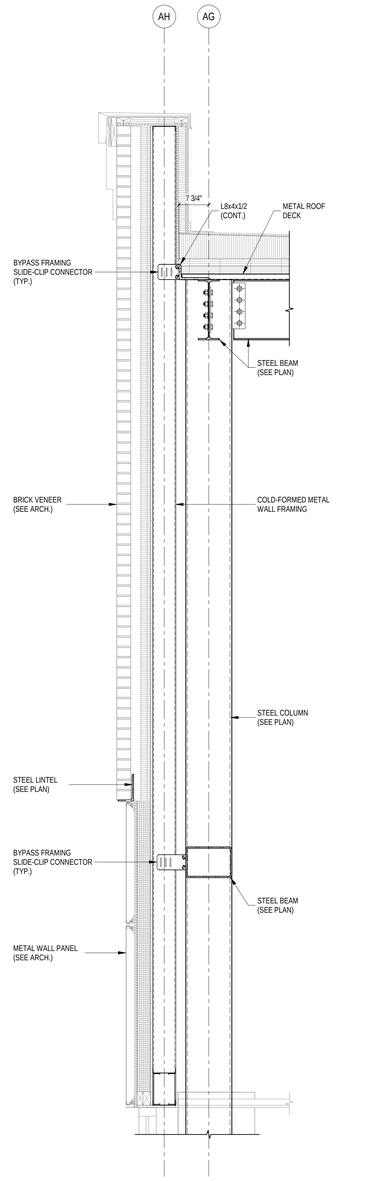
3 **SECTION**

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



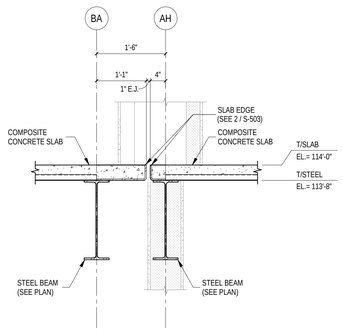
2 **SECTION**

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



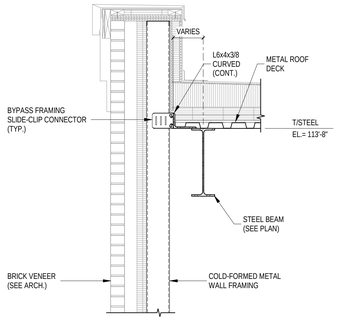
1 **SECTION**

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



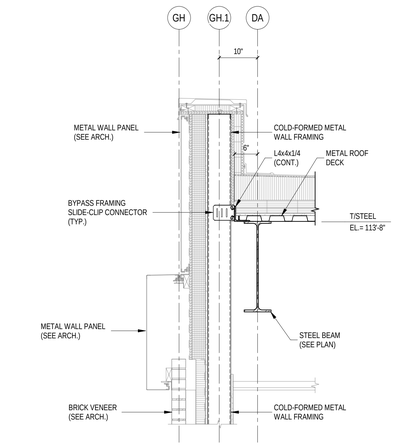
10 **SECTION**

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



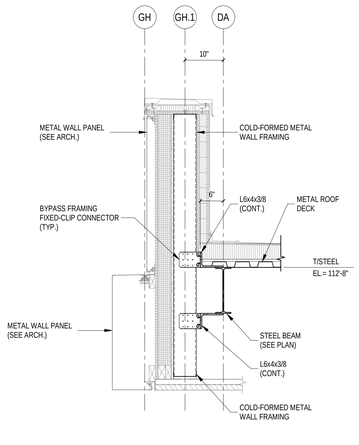
9 **SECTION**

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



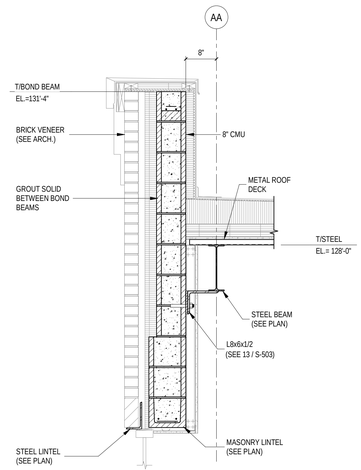
8 **SECTION**

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



7 **SECTION**

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



6 **SECTION**

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

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Indianapolis, Indiana 46268
Phone: 317-334-1500
Fax: 317-334-1552
TLF Job No: 2024-206

ISSUED FOR BID

TRACY A. CHARITON — REGISTERED — No. 10700203 — STATE OF INDIANA — PROFESSIONAL ENGINEER

DRAWN BY: TLF

PROJECT NUMBER: 224033.00

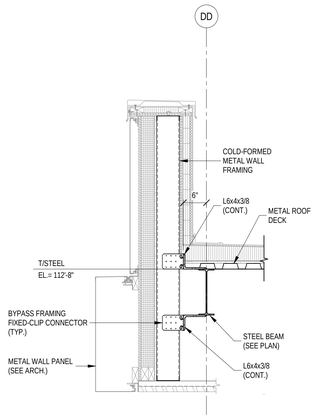
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

SECTIONS AND DETAILS

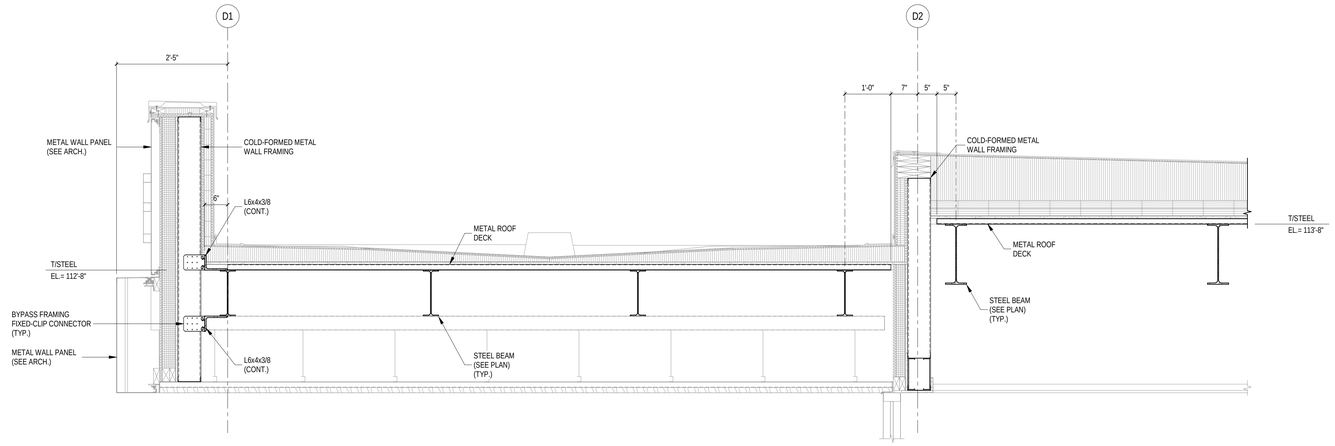
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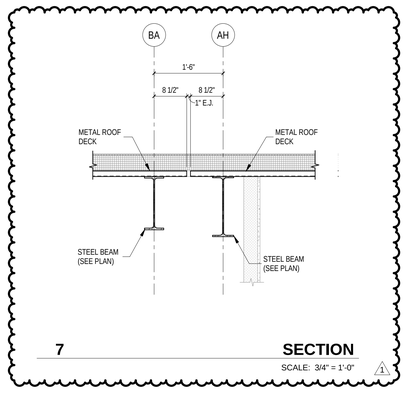
2 SECTION

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



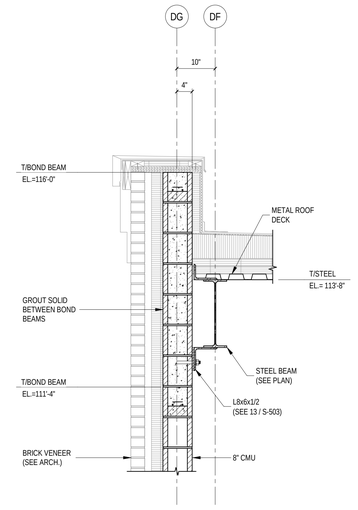
1 SECTION

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



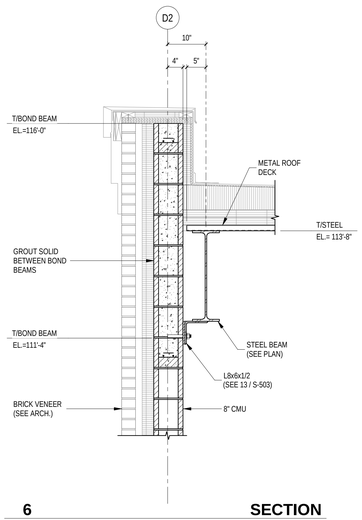
7 SECTION

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



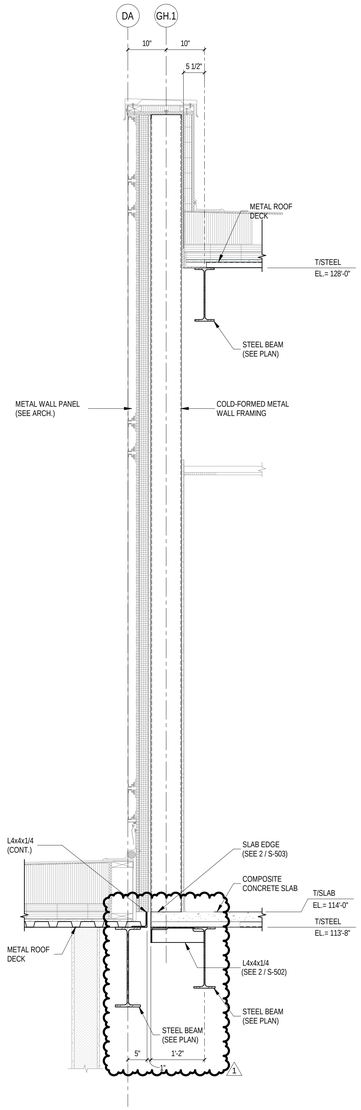
5 SECTION

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



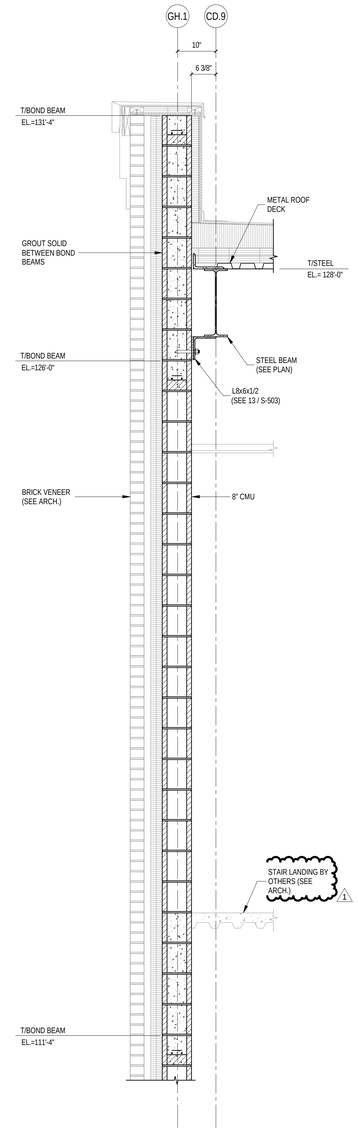
6 SECTION

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



4 SECTION

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



3 SECTION

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

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Phone: 317-334-1500
Fax: 317-334-1552
TLF Job No: 2024-206

ISSUED FOR BID

TRACY A. CHARITON REGISTERED No. 10708203 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: TLF

PROJECT NUMBER: 224033.00

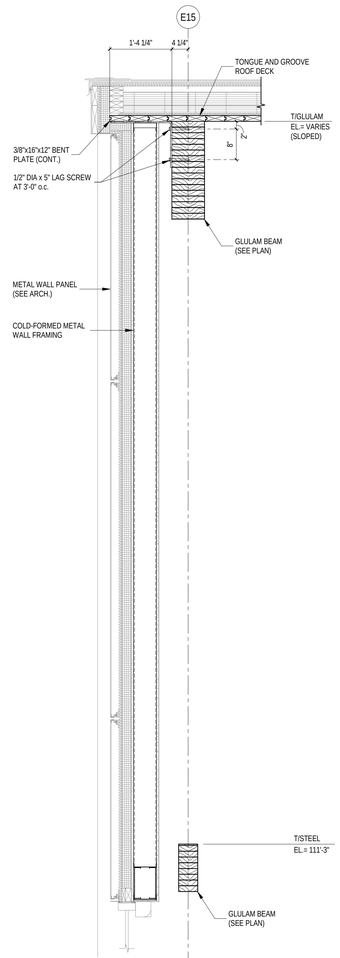
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

SECTIONS AND DETAILS

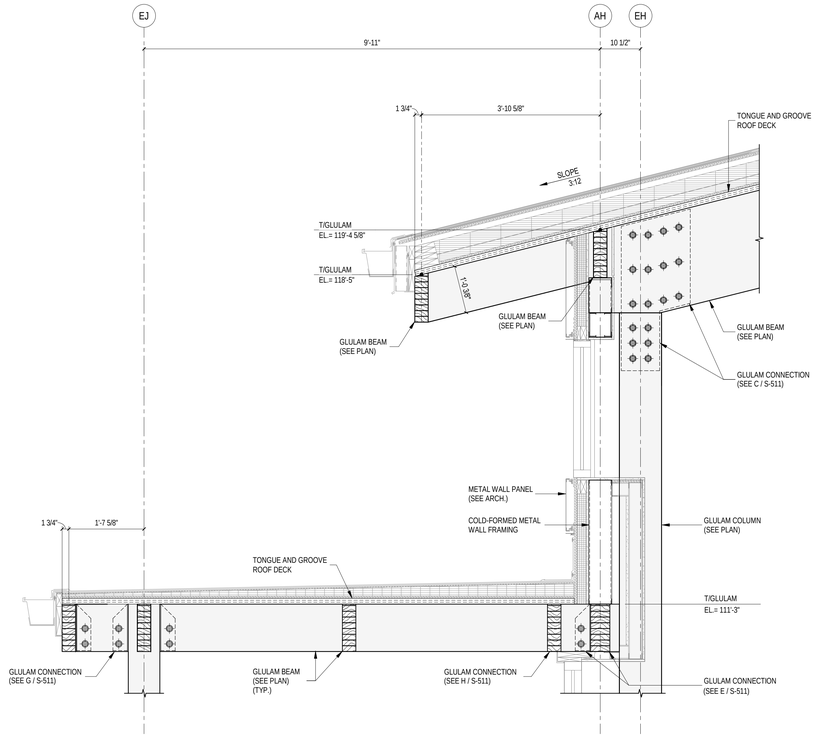
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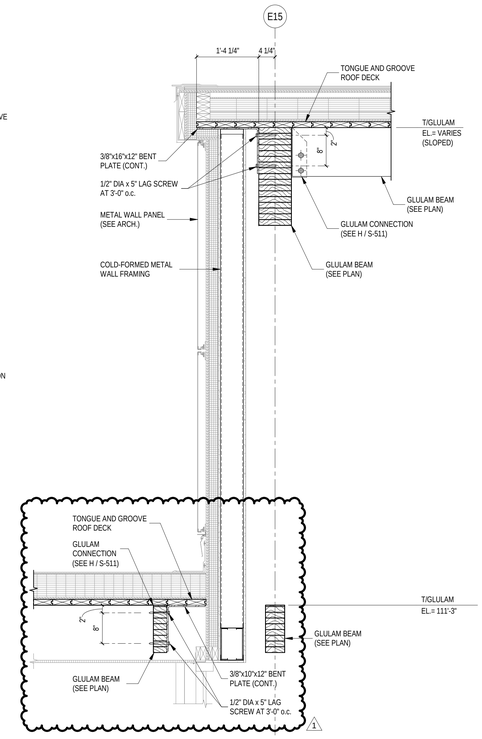
4 SECTION

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



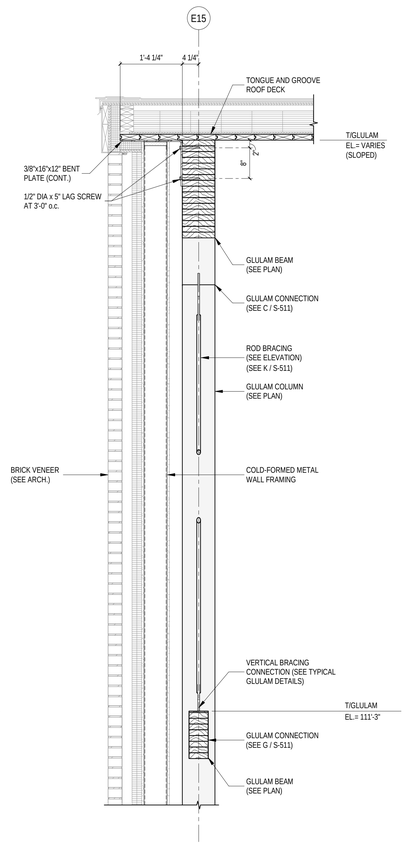
3 SECTION

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



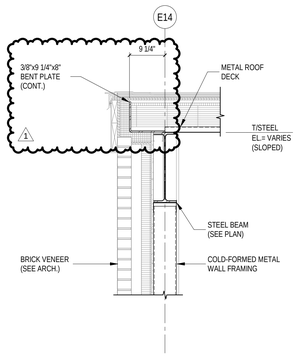
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SCALE: 3/4" = 1'-0"



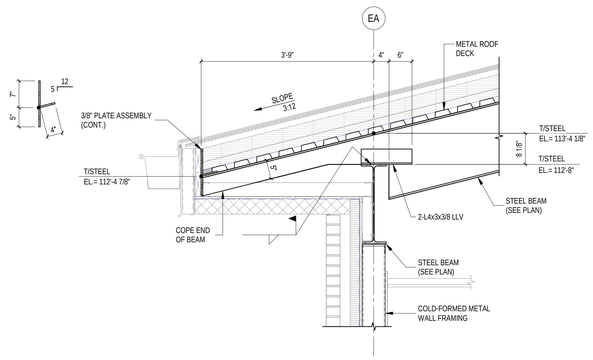
1 SECTION

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



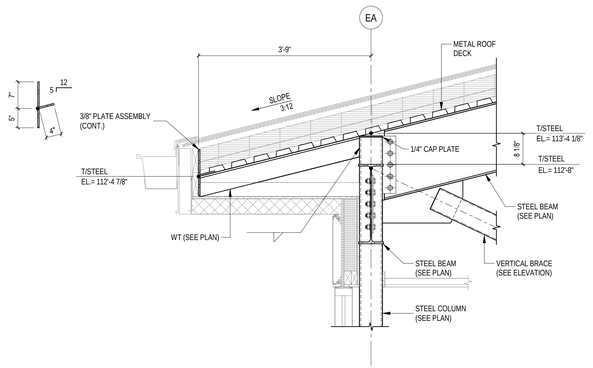
8 SECTION

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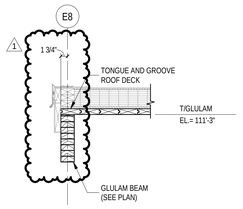
7 SECTION

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



6 SECTION

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



5 SECTION

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

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Phone: 317-334-1500
Fax: 317-334-1552
TLF Job No: 2024-206

ISSUED FOR BID

NANCY A. CHARITON REGISTERED No. 10708203 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: TLF

PROJECT NUMBER: 224033.00

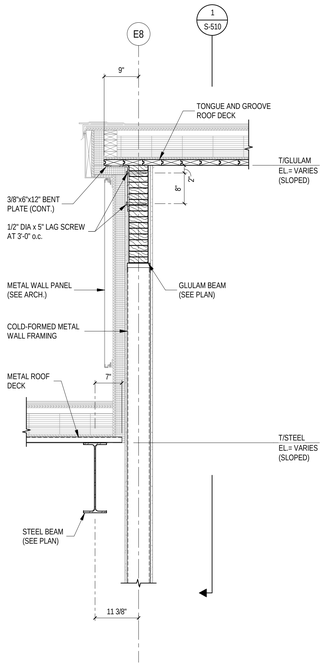
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

SECTIONS AND DETAILS

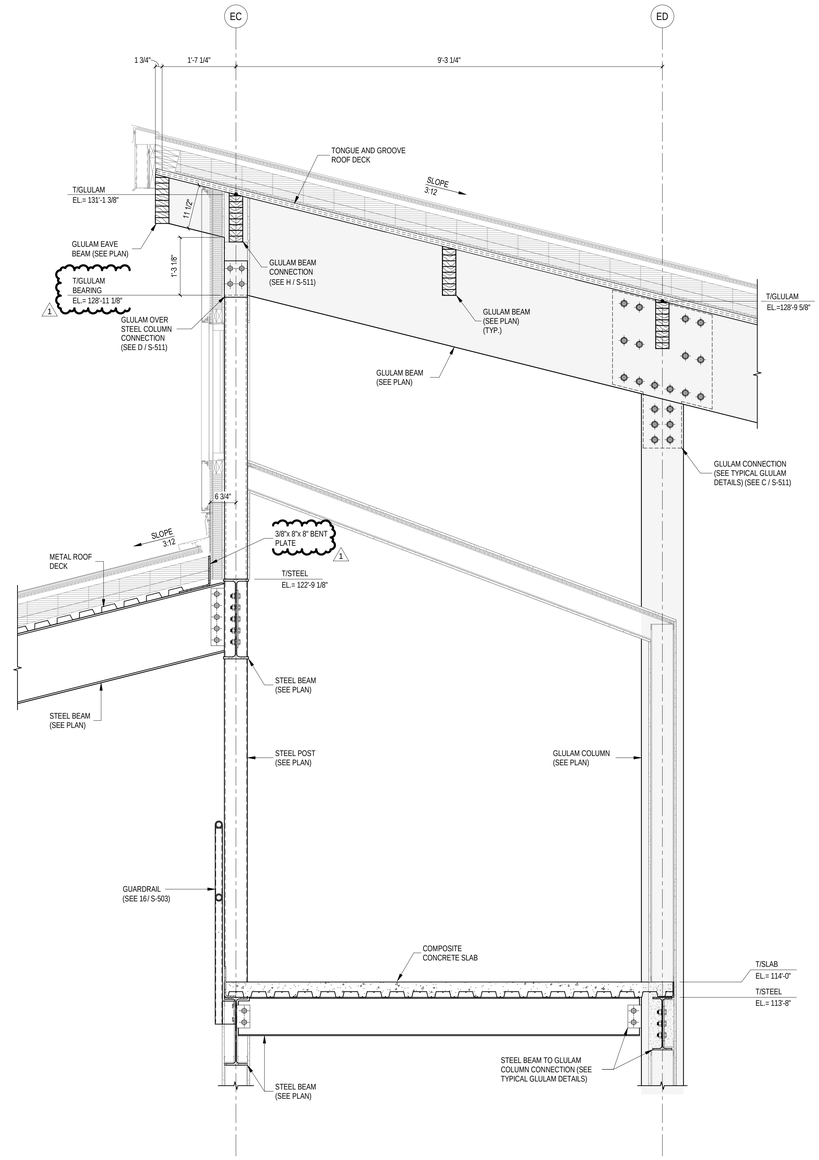
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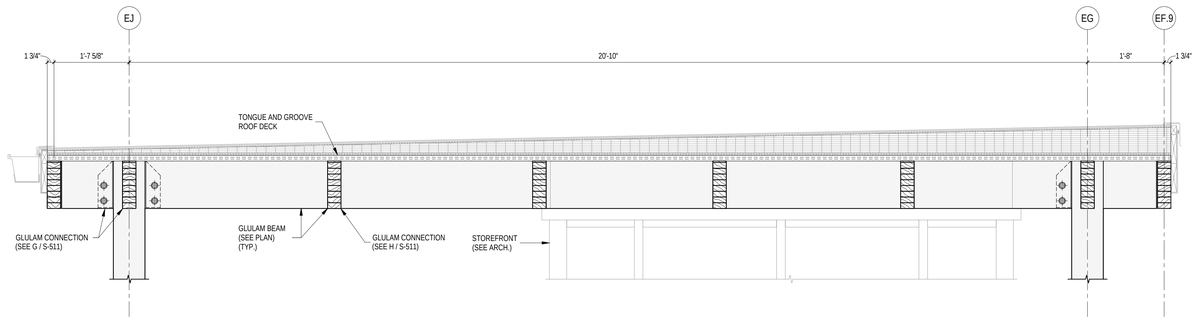
2 SECTION

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



1 SECTION

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



3 SECTION

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

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Indianapolis, Indiana 46268
Phone: 317-334-1500
Fax: 317-334-1552
TLF Job No: 2024-206

ISSUED FOR BID

TRACY A. CHARITON
REGISTERED
No. 10708503
STATE OF
INDIANA
PROFESSIONAL ENGINEER

DRAWN BY: TLF

PROJECT NUMBER: 224033.00

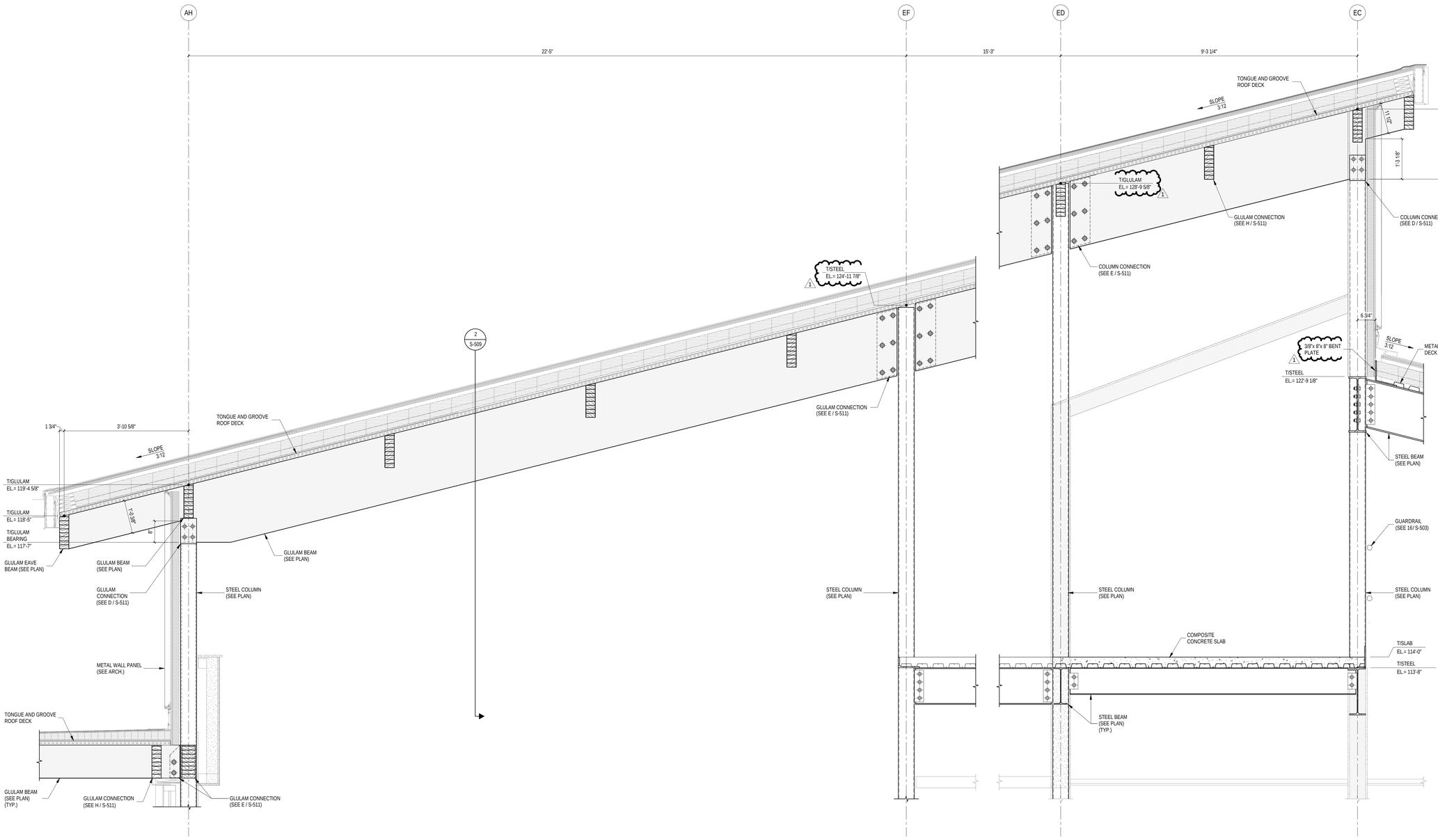
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

SECTIONS AND DETAILS

S-509

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1 SECTION

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

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Phone: 317-334-1500
Fax: 317-334-1552
TLF Job No: 2024-206

ISSUED FOR BID

TRACY A. CHARITON REGISTERED No. 10700103 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: TLF

PROJECT NUMBER: 224033.00

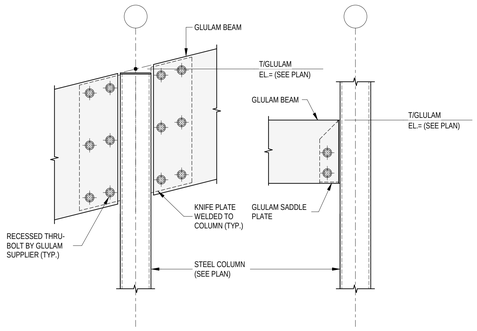
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

SECTIONS AND DETAILS

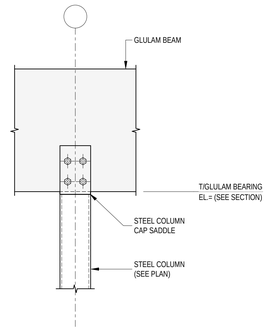
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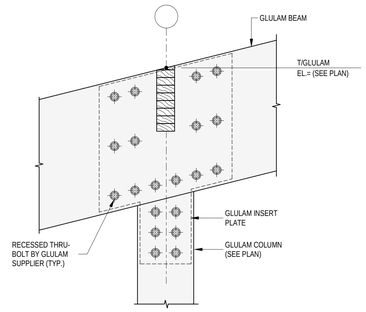
E GLULAM BEAM INTO SIDE OF STEEL COLUMN DETAIL

SCALE: 1" = 1'-0"



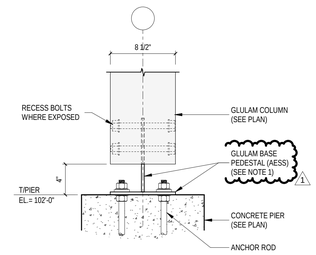
D GLULAM BEAM OVER STEEL COLUMN DETAIL

SCALE: 1" = 1'-0"



C GLULAM BEAM OVER GLULAM COLUMN DETAIL

SCALE: 1" = 1'-0"

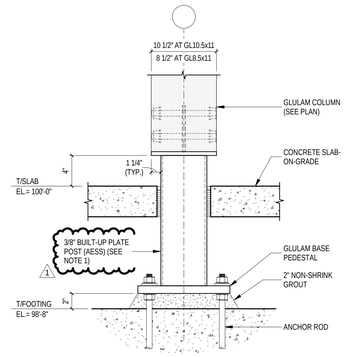


B GLULAM EXTERIOR COLUMN BASE DETAIL

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

NOTES:

1. BASE PEDESTAL IS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS). REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

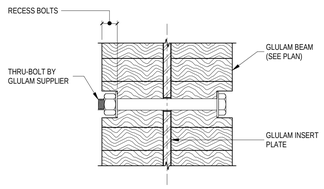


A GLULAM INTERIOR COLUMN BASE DETAIL

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

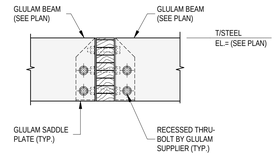
NOTES:

1. POST SUPPORT ASSEMBLY IS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS). REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



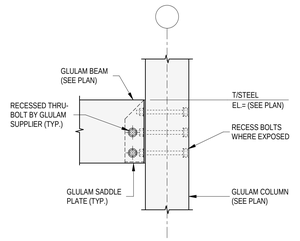
J GLULAM BEAM RECESSED BOLT DETAIL

SCALE: 3" = 1'-0"



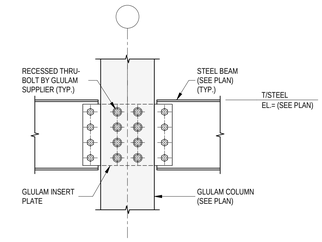
H GLULAM BEAM INTO SIDE OF GLULAM BEAM

SCALE: 1" = 1'-0"



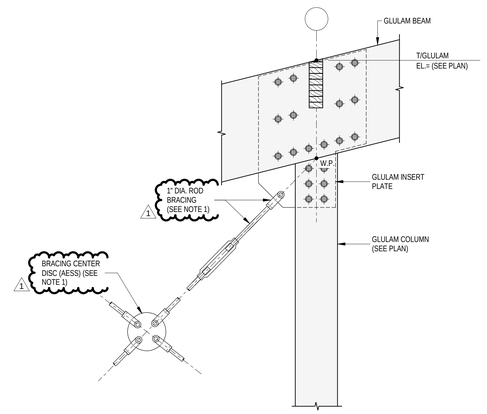
G GLULAM BEAM INTO SIDE OF GLULAM COLUMN

SCALE: 1" = 1'-0"



F STEEL BEAM INTO SIDE OF GLULAM COLUMN

SCALE: 1" = 1'-0"



K ROD BRACING DETAIL

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

NOTES:

1. ALL EXPOSED BRACING AND CONNECTIONS ARE ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS). REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

GLULAM FRAMING NOTES:

1. DETAILS SHOWN ARE FOR GENERAL CONFIGURATION PURPOSES ONLY. FINAL GLULAM CONNECTION DESIGN IS TO BE BY THE MASS TIMBER FABRICATOR.

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DRAWN BY: TLF

PROJECT NUMBER: 224033.00

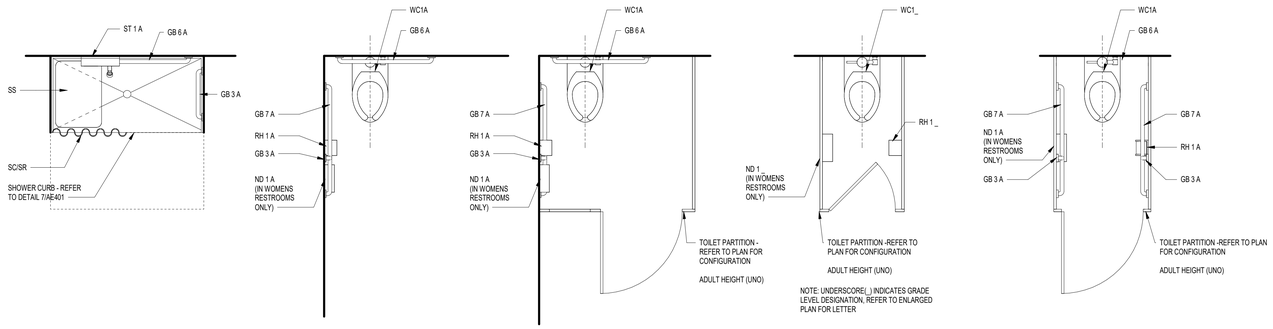
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

GLULAM FRAMING DETAILS

S-511

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SHOWER STALL
SH 3 A

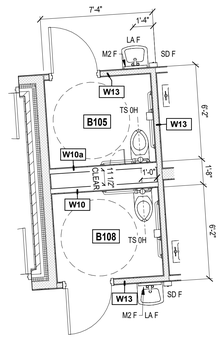
TOILET STALL TS
0 _

TOILET STALL TS
1 _

TOILET STALL TS
2 _

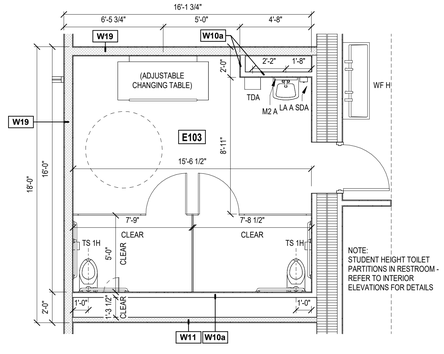
TOILET STALL TS
3 _

LEGEND - TOILET AND SHOWER STALL



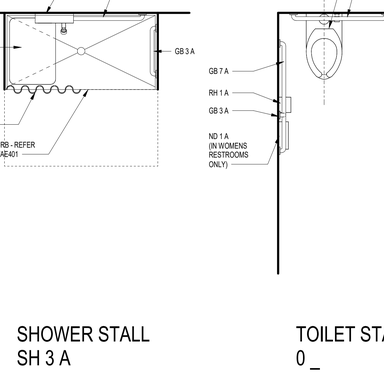
1 ENLARGED PLAN - TYP. DAYCARE RESTROOM

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



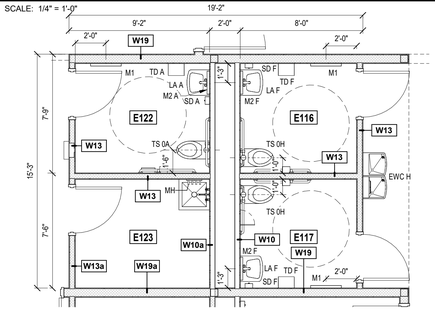
4 ENLARGED PLAN - TYP. DEVELOPMENTAL CLASSROOM RESTROOM

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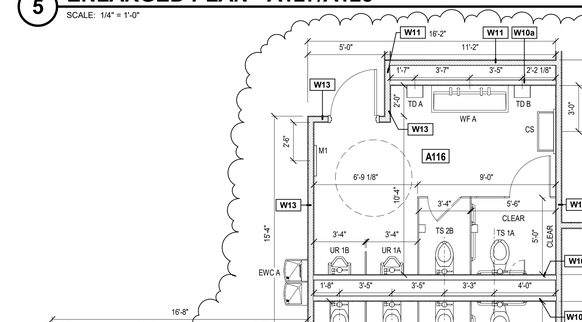
2 ENLARGED PLAN - TYP. PRESCHOOL CLASSROOM RESTROOM

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



3 ENLARGED PLAN - TYPICAL PRESCHOOL MULTI-PURPOSE ROOM TOLIETS

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



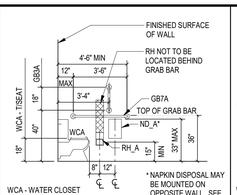
5 ENLARGED PLAN - A127/A128

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

6 ENLARGED PLAN - A116/A117/A120

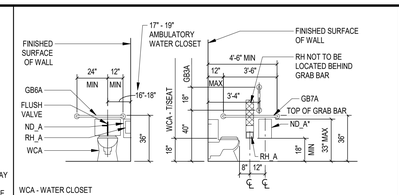
SCALE: 1/4" = 1'-0"

WATER CLOSETS AND ACCESSORIES



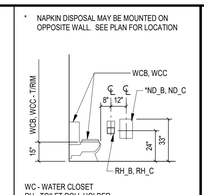
WCA - WATER CLOSET
GB_A - GRAB BAR
RH_A - TOILET ROLL HOLDER
ND_A - SANITARY NAPKIN DISPOSAL

AMBULATORY ADULT ADA WATER CLOSETS



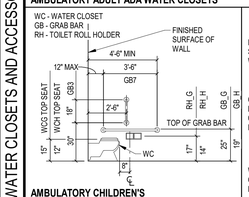
WCA - WATER CLOSET
GB_A - GRAB BAR
RH_A - TOILET ROLL HOLDER
ND_A - SANITARY NAPKIN DISPOSAL

WHEELCHAIR ADULT ADA WATER CLOSETS

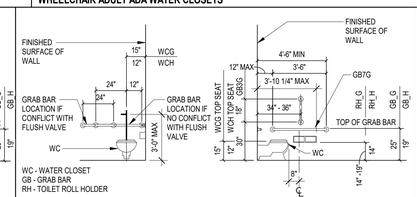


WC - WATER CLOSET
RH - TOILET ROLL HOLDER
ND - SANITARY NAPKIN DISPOSAL

STANDARD WATER CLOSETS
GRADES 7 AND ABOVE

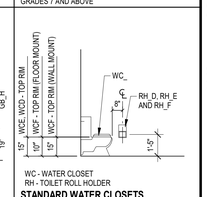


AMBULATORY CHILDREN'S ADA WATER CLOSETS



WC - WATER CLOSET
GB - GRAB BAR
RH - TOILET ROLL HOLDER

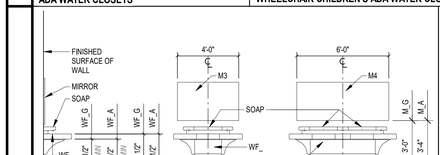
WHEELCHAIR CHILDREN'S ADA WATER CLOSETS



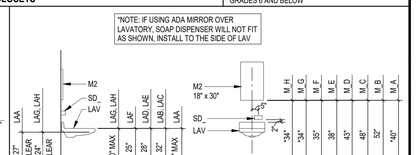
WC - WATER CLOSET
RH - TOILET ROLL HOLDER

STANDARD WATER CLOSETS
GRADES 6 AND BELOW

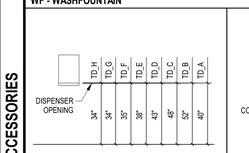
OTHER MISC. EQUIPMENT



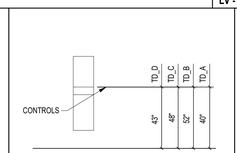
WF - WASHFOUNTAIN



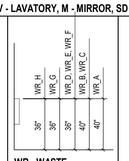
LV - LAVATORY, M - MIRROR, SD - SOAP DISPENSER



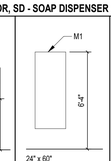
TD - PAPER TOWEL DISPENSER



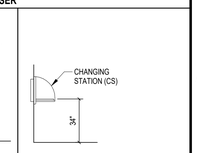
TD - PAPER TOWEL DISPENSER/DISPOSAL



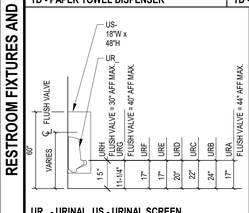
WR - WASTE RECEPTACLE



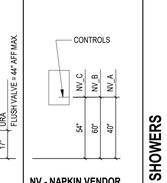
M1 - MIRROR



CS - CHANGING STATION

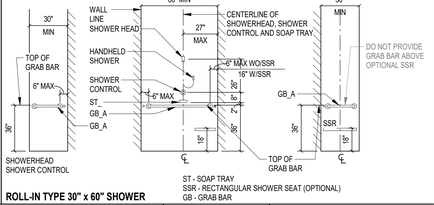


UR_ - URINAL, US - URINAL SCREEN



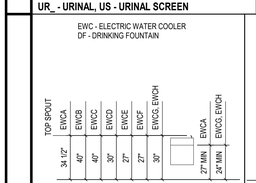
NV - NAPKIN VENDOR

SHOWERS

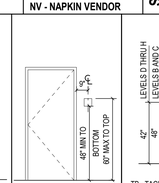


ROLL-IN TYPE 30" x 60" SHOWER

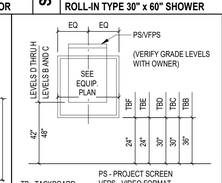
ST - SOAP TRAY
SSR - RECTANGULAR SHOWER SEAT (OPTIONAL)
GB - GRAB BAR



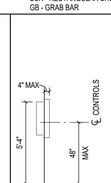
ELECTRIC WATER COOLERS
DRINKING FOUNTAINS



INTERIOR SIGN

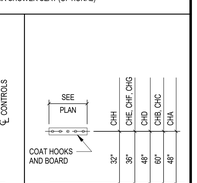


DISPLAY BOARDS/PROJECTION SCREENS

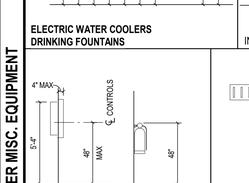


AUTOMATIC EXTERNAL DEFIBRILLATOR

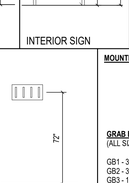
AED CABINET



CH - COAT HOOKS AND BOARD



FIRE EXTINGUISHERS



MH - MOP HOLDERS

MOUNTING HEIGHT NOTES:

1. MOUNTING HEIGHTS ARE BASED UPON THE FOLLOWING: TOILET, BATH AND LAUNDRY EQUIPMENT (ACCESSORIES), BOBRICK WASHROOM EQUIPMENT, INC. ; LAVATORIES, URINALS AND WATER CLOSETS, AMERICAN STANDARD, INC. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MOUNTING HEIGHTS OF TOILET ACCESSORIES SUPPLIED BY OTHER MANUFACTURERS.
2. MOUNTING HEIGHT DRAWING INDICATES A TWO PIECE GRAB BAR. GRAB BAR MAY BE A ONE PIECE OR A TWO PIECE GRAB BAR. REFER TO SPECIFICATIONS FOR SPECIFIC TYPE OF GRAB BAR TO BE USED.
3. UNDERSCORE (_): REFER TO ENLARGED PLANS FOR MISSING NUMBER IDENTIFYNG THE SPECIFIC TYPE OF TOILET ACCESSORY

GRAB BAR SCHEDULE
(ALL SIZES MAY NOT BE USED ON THIS PROJECT)

GB1 - 36" x 54" TWO WALL
GB2 - 36"x36" TWO WALL
GB3 - 18" STRAIGHT
GB4 - 24" STRAIGHT
GB5 - 30" STRAIGHT
GB6 - 36" STRAIGHT
GB7 - 42" STRAIGHT
GB8 - 48" STRAIGHT

MIRROR SCHEDULE
(ALL SIZES MAY NOT BE USED ON THIS PROJECT)

M1 - 24"W x 60"H
M2 - 18"W x 30"H
M3 - 48"W x 30"H
M4 - 60"W x 30"H

SAMPLE TOILET ACCESSORY LABELING:

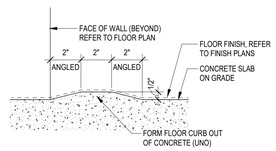
RH1A

RH INDICATES TOILET ACCESSORY NAME (RH = TOILET ROLL HOLDER
1 INDICATES TOILET ACCESSORY TYPE WHEN MORE THAN ONE TYPE IS SPECIFIED (IF NO NUMBER IS USED, ONLY ONE TYPE IS SPECIFIED)
A INDICATES THE GRADE LEVEL, WHICH DETERMINES THE MOUNTING HEIGHT

W/CA INDICATES PLUMBING FIXTURE AT MOUNTING HEIGHT "A". REFER TO PLUMBING DRAWINGS FOR PLUMBING FIXTURE SCHEDULE

GRADE LEVEL LEGEND:

A. ADULT ACCESSIBLE (ADA) HEIGHTS (GRADES 7 AND ABOVE)
B. GRADES 9 AND ABOVE (ADULTS)
C. GRADES 7-8
D. GRADES 4-6
E. GRADES 1-3
F. PRESCHOOL-KINDERGARTEN
G. CHILDREN'S ACCESSIBLE (ADA) HEIGHTS (K-6)
H. CHILDREN'S ACCESSIBLE (ADA) HEIGHTS (PRESCHOOL)



7 DETAIL - SHOWER CURB

SCALE: 3" = 1'-0"

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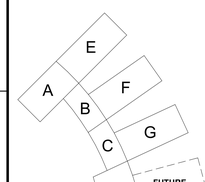
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ARCHITECT

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KEY PLAN

N

ISSUED FOR BID

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

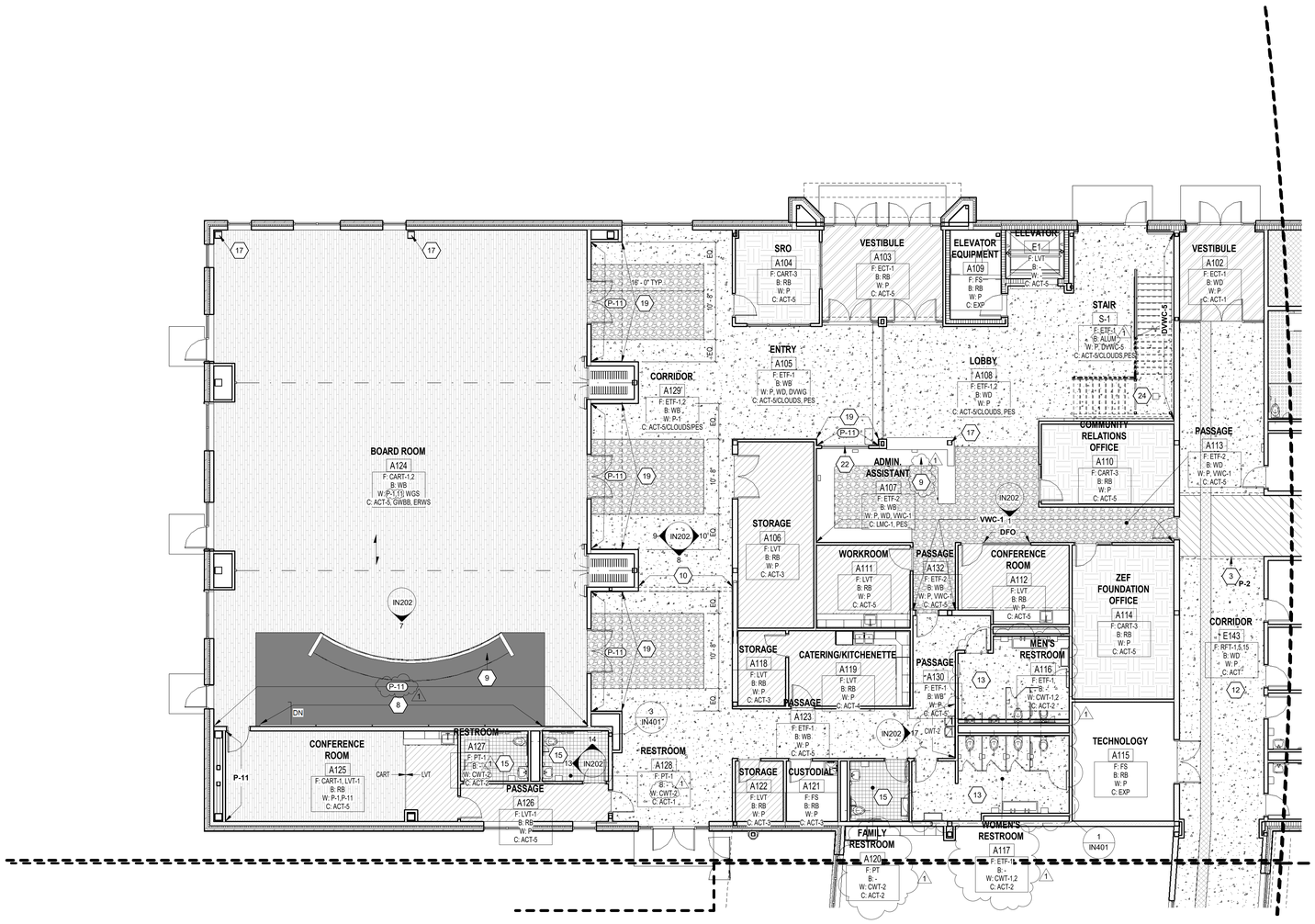
PROJECT MANAGER: JM
DRAWN BY: KT
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

ENLARGED TOILET ROOM PLANS

AE401

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FIRST FLOOR FINISH PLAN - UNIT A

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

GENERAL FINISH NOTES

A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.
B. PAINT ALL SIDES (VERT. AND HORZ.) OF BULKHEAD/SOFFIT COLOR INDICATED (UNO).
C. PROVIDE RESILIENT TRANSITION STRIPS BETWEEN FLOOR FINISH TYPES.
D. PAINT HOLLOW METAL (HM) DOOR FRAMES TO MATCH ADJACENT WALL COLOR (UNO).
E. PAINT ALL EXPOSED STRUCTURE P-11 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.
F. PROVIDE SATIN ANODIZED ALUMINUM SPECIAL PROFILE TRIM AT THE FOLLOWING LOCATIONS (TYPICAL) 1
   - BETWEEN RUBBER FLOOR TILE AND CERAMIC WALL TILE: SCHLUTER DILEX-AHKA OR APPROVED EQUAL.
   - BETWEEN DRY RESINOUS BASE AND CERAMIC WALL TILE: SCHLUTER-JOLLY PROFILE.
   - AT TERMINATION OF PARTIAL HEIGHT CERAMIC TILED WALLS.
   - AT CERAMIC WALL TILE CORNERS: SCHLUTER-QUADEC: SCHLUTER-JOLLY CAP.
G. PROVIDE OUTSIDE CORNER TRIM CS CONSTRUCTION SPECIALTIES - ACROVYN (WCOS) AT IMPACT RESISTANT WALLCOVERING (IRWC) AS INDICATED ON ELEVATION ON 8/IN201.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 CERAMIC WALL TILE (CWT-2) FLOOR TO CEILING ON THREE SIDES OF ALCOVE. 1
2 MANUFACTURER BOUND 10'-0" DIAMETER ROUND AREA RUG WITH MANUFACTURER'S RECOMMENDED BACKING FOR LVT FLOORING, MADE FROM CART-4. REFER TO LIST OF FINISHES.
3 PAINT HORIZONTAL AND VERTICAL FACES OF BULKHEAD ACCENT COLOR AS INDICATED ON PLANS.
4 ALIGN RFT WITH CORNER OF WALL.
5 IMPACT RESISTANT WALL COVERING (IRWC-1) AND WOOD CHAIR RAIL TRIM TERMINATE AT CORNER (TYP.) REFER TO DETAIL ON GE501.
6 ACCENT PAINT IN ALCOVE TO MATCH ACCENT PAINT ON BULKHEAD ABOVE.
7 START WITH FULL RUBBER FLOOR TILE.
8 WOOD VENEER GRILLE SYSTEM (WGS). REFER TO ELEVATION.
9 FLOORING EXTENDS UNDER THE MILLWORK DESK. REFER TO FINISH PLANS FOR FLOORING MATERIAL. 1
10 AP-AWT ON WALL ABOVE. REFER TO ELEVATION. 1
11 PAINT UNDERSIDE OF BULKHEAD ACCENT COLOR. VARIES PER WING.
12 [ALTERNATE] INSTALL ETF-1,2,3,4,5,6 INSTEAD OF RFT IN CORRIDORS: A101, B101, C101, D129, D138.
   ETF-1 REPLACES RFT-15
   ETF-2 REPLACES RFT-14
   ETF-3 REPLACES RFT-1
   ETF-4 REPLACES RFT-2
   ETF-5 REPLACES RFT-5
   ETF-6 REPLACES RFT-8
13 CERAMIC WALL TILE (CWT-1,2) ON ALL WALLS, FLOOR TO CEILING. EXTENTS AS INDICATED ON FINISH PLANS.
14 CARPET EXTENDS TO WALL UNDER COUNTERTOP. 1
15 CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH SCHLUTER TRIM (REFER TO GENERAL FINISH NOTES). REFER TO PLANS FOR FINISH SELECTION.
16 CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH DRF BASE. REFER TO PLANS FOR FINISH SELECTION.
17 PAINT EXPOSED COLUMN P-11.
18 DIGITAL VINYL FILM (DVF-X) TO WRAP DOUBLE DOORS AND MOUNTED ON WALL. PAINT DOOR FRAMES TO MATCH ADJACENT ACCENT WALL. 1
19 WOOD VENEER PANELS (WVP) ON SIDE WALL(S) AND BULKHEAD. REFER TO PLANS, WALL PANEL MAY ONLY BE ON ONE WALL. REFER TO IN501 AND ARCHITECTURAL PLAN/BULKHEAD DETAILS.
20 PAINT BULKHEAD UNDERSIDE TO MATCH SIDE WALL ACCENT COLOR AS SHOWN ON PLANS.
21 PAINT RAILING ASSEMBLY AND EXPOSED COLUMNS P-11 UP TO 8'-0" 1
22 SLIDING WINDOW WITH SOLID SURFACE SILL (SSM-2). REFER TO ARCH DWGS FOR DETAILS.
23 ALIGNT CARPET TILES WITH NORTH WALL.
24 TERRAZZO PRECAST TREADS AND RISERS. 1
25 PAINT EXPOSED COLUMNS P-11 UP TO 8'-0" 1

FLOOR PATTERN LEGEND

CART-1	LVT-1
CART-2	LVT-2
CART-3	RFT-1 / ETF-3
CART-4	RFT-2, 5, 8, 11
CART-5	RFT-3, 6, 9
DRF-1	RFT-4, 7, 10, 13
ECT-1	RFT-14 / ETF-2
FS	RFT-15 / ETF-1
	RTAF-1

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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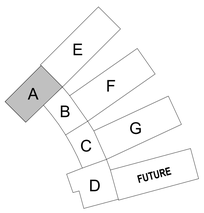
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KEY PLAN

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100% CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

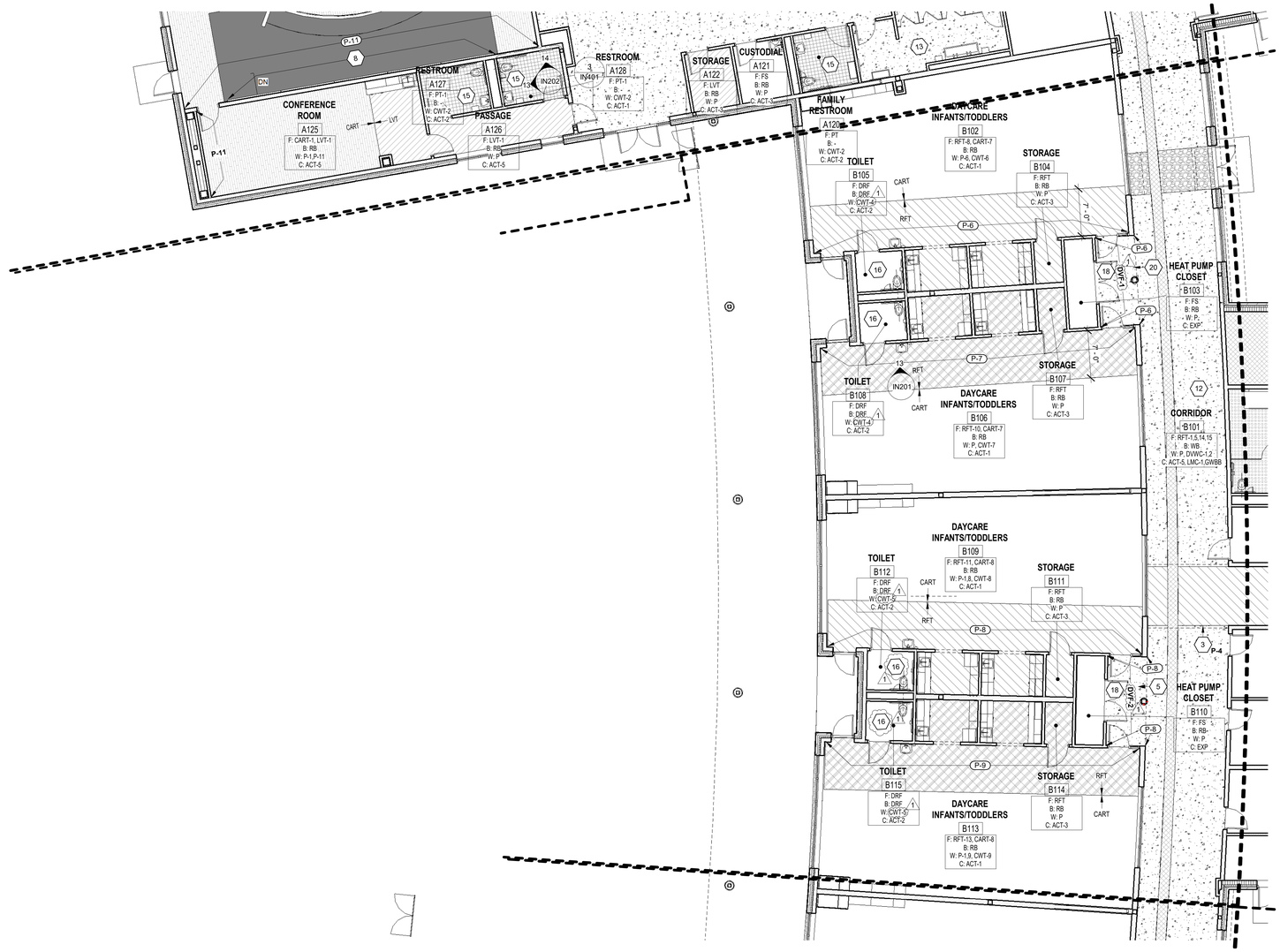
PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR FINISH PLAN - UNIT A

IF101

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FIRST FLOOR FINISH PLAN - UNIT B

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A115	TECHNOLOGY	245 SF
A116	MEN'S RESTROOM	174 SF
A117	WOMEN'S RESTROOM	233 SF
A118	STORAGE	73 SF
A119	CATERING/KITCHENETTE	184 SF
A120	FAMILY RESTROOM	72 SF
A121	CUSTODIAL	63 SF
A122	STORAGE	59 SF
A123	PASSAGE	177 SF
A124	BOARD ROOM	3702 SF
A125	CONFERENCE ROOM	423 SF
A126	PASSAGE	112 SF
A127	RESTROOM	69 SF
A128	RESTROOM	67 SF
A129	CORRIDOR	1544 SF
A130	PASSAGE	146 SF
B101	CORRIDOR	1654 SF
B102	DAYCARE INFANTS/TODDLERS	1303 SF
B103	HEAT PUMP CLOSET	55 SF
B104	STORAGE	26 SF
B105	TOILET	40 SF
B106	DAYCARE INFANTS/TODDLERS	1175 SF
B107	STORAGE	25 SF
B108	TOILET	40 SF
B109	DAYCARE INFANTS/TODDLERS	1175 SF
B110	HEAT PUMP CLOSET	55 SF
B111	STORAGE	25 SF
B112	TOILET	40 SF
B113	DAYCARE INFANTS/TODDLERS	1175 SF
B114	STORAGE	25 SF
B115	TOILET	40 SF
C101	CORRIDOR	1627 SF
C102	DAYCARE INFANTS/TODDLERS	1175 SF
E132	CLASSROOM	1093 SF
E136	OUTDOOR STORAGE	142 SF
E137	CORRIDOR	931 SF
E139	RESTROOM	62 SF
E143	CORRIDOR	868 SF
F101	CORRIDOR	132 SF
F102	ELECTRICAL	121 SF
F103	RESTROOM	220 SF
F104	STORAGE	169 SF
F105	CLASSROOM	943 SF
F132	CLASSROOM	1092 SF
F133	OT/PT/SPEECH OFFICE	145 SF
F134	LACTATION	139 SF
F135	DAYCARE LAUNDRY	140 SF
F136	OUTDOOR STORAGE	104 SF

GENERAL FINISH NOTES

A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.

B. PAINT ALL SIDES (VERT. AND HORZ.) OF BULKHEAD/SOFFIT COLOR INDICATED (UNO).

C. PROVIDE RESILIENT TRANSITION STRIPS BETWEEN FLOOR FINISH TYPES.

D. PAINT HOLLOW METAL (HM) DOOR FRAMES TO MATCH ADJACENT WALL COLOR (UNO).

E. PAINT ALL EXPOSED STRUCTURE P-11 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.

F. PROVIDE SATIN ANODIZED ALUMINUM SPECIAL PROFILE TRIM AT THE FOLLOWING LOCATIONS (TYPICAL) 1
- BETWEEN RUBBER FLOOR TILE AND CERAMIC WALL TILE: SCHLUTER DILEX-AHKA OR APPROVED EQUAL.
- BETWEEN DRY RESINOUS BASE AND CERAMIC WALL TILE: SCHLUTER-JOLLY PROFILE.
- AT TERMINATION OF PARTIAL HEIGHT CERAMIC TILED WALLS.
- AT CERAMIC WALL TILE CORNERS: SCHLUTER-QUADEC: SCHLUTER-JOLLY CAP.

G. PROVIDE OUTSIDE CORNER TRIM CS CONSTRUCTION SPECIALTIES - ACROVYN (WCOS) AT IMPACT RESISTANT WALLCOVERING (IRWC) AS INDICATED ON ELEVATION ON 8/IN201.

FLOOR PATTERN/FINISH KEY NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 CERAMIC WALL TILE (CWT-2) FLOOR TO CEILING ON THREE SIDES OF ALCOVE. 1
2 MANUFACTURER BOUND 10'-0" DIAMETER ROUND AREA RUG WITH MANUFACTURER'S RECOMMENDED BACKING FOR LVT FLOORING, MADE FROM CART-4. REFER TO LIST OF FINISHES.
3 PAINT HORIZONTAL AND VERTICAL FACES OF BULKHEAD ACCENT COLOR AS INDICATED ON PLANS.
4 ALIGN RFT WITH CORNER OF WALL.
5 IMPACT RESISTANT WALL COVERING (RWC-1) AND WOOD CHAIR RAIL TRIM TERMINATE AT CORNER (TYP.) REFER TO DETAIL ON GES01.
6 ACCENT PAINT IN ALCOVE TO MATCH ACCENT PAINT ON BULKHEAD ABOVE.
7 START WITH FULL RUBBER FLOOR TILE.
8 WOOD VENEER GRILLE SYSTEM (WGS), REFER TO ELEVATION.
9 FLOORING EXTENDS UNDER THE MILLWORK DESK. REFER TO FINISH PLANS FOR FLOORING MATERIAL. 1
10 AR-AWT ON WALL ABOVE. REFER TO ELEVATION.
11 PAINT UNDERSIDE OF BULKHEAD ACCENT COLOR. VARIES PER WING.
12 [ALTERNATE] INSTALL ETF-1,2,3,4,5,6 INSTEAD OF RFT IN CORRIDORS: A101, B101, C101, D129, D138.
ETF-1 REPLACES RFT-15
ETF-2 REPLACES RFT-14
ETF-3 REPLACES RFT-1
ETF-4 REPLACES RFT-2
ETF-5 REPLACES RFT-5
ETF-6 REPLACES RFT-6
13 CERAMIC WALL TILE (CWT-12) ON ALL WALLS, FLOOR TO CEILING. EXTENTS AS INDICATED ON FINISH PLANS.
14 CARPET EXTENDS TO WALL UNDER COUNTERTOP. 1
15 CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH SCHLUTER TRIM (REFER TO GENERAL FINISH NOTES). REFER TO PLANS FOR FINISH SELECTION.
16 CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH DRF BASE. REFER TO PLANS FOR FINISH SELECTION.
17 PAINT EXPOSED COLUMN P-11.
18 DIGITAL VINYL FILM (DVF-X) TO WRAP DOUBLE DOORS AND MOUNTED ON WALL. PAINT DOOR FRAMES TO MATCH ADJACENT ACCENT WALL. 1
19 WOOD VENEER PANELS (WVP) ON SIDE WALL(S) AND BULKHEAD. REFER TO PLANS, WALL PANEL MAY ONLY BE ON ONE WALL. REFER TO IN501 AND ARCHITECTURAL PLANS/BULKHEAD DETAILS.
20 PAINT BULKHEAD UNDERSIDE TO MATCH SIDE WALL ACCENT COLOR AS SHOWN ON PLANS.
21 PAINT RAILING ASSEMBLY AND EXPOSED COLUMNS P-11 UP TO 8'-0" 1
22 SLIDING WINDOW WITH SOLID SURFACE SILL (SSM-2). REFER TO ARCH DWGS FOR DETAILS.
23 ALIGNT CARPET TILES WITH NORTH WALL.
24 TERRAZZO PRECAST TREADS AND RISERS. 1
25 PAINT EXPOSED COLUMNS P-11 UP TO 8'-0"

FLOOR PATTERN LEGEND

- CART-1
- CART-2
- CART-3
- CART-4
- CART-5
- DRF-1
- ECT-1
- FS
- LVT-1
- LVT-2
- RFT-1 / ETF-3
- RFT-2, 5, 8, 11
- RFT-3, 6, 9
- RFT-4, 7, 10, 13
- RFT-14 / ETF-2
- RFT-15 / ETF-1
- RTAF-1

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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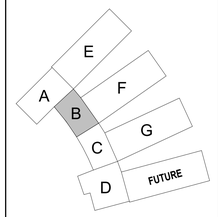
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KEY PLAN

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100% CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

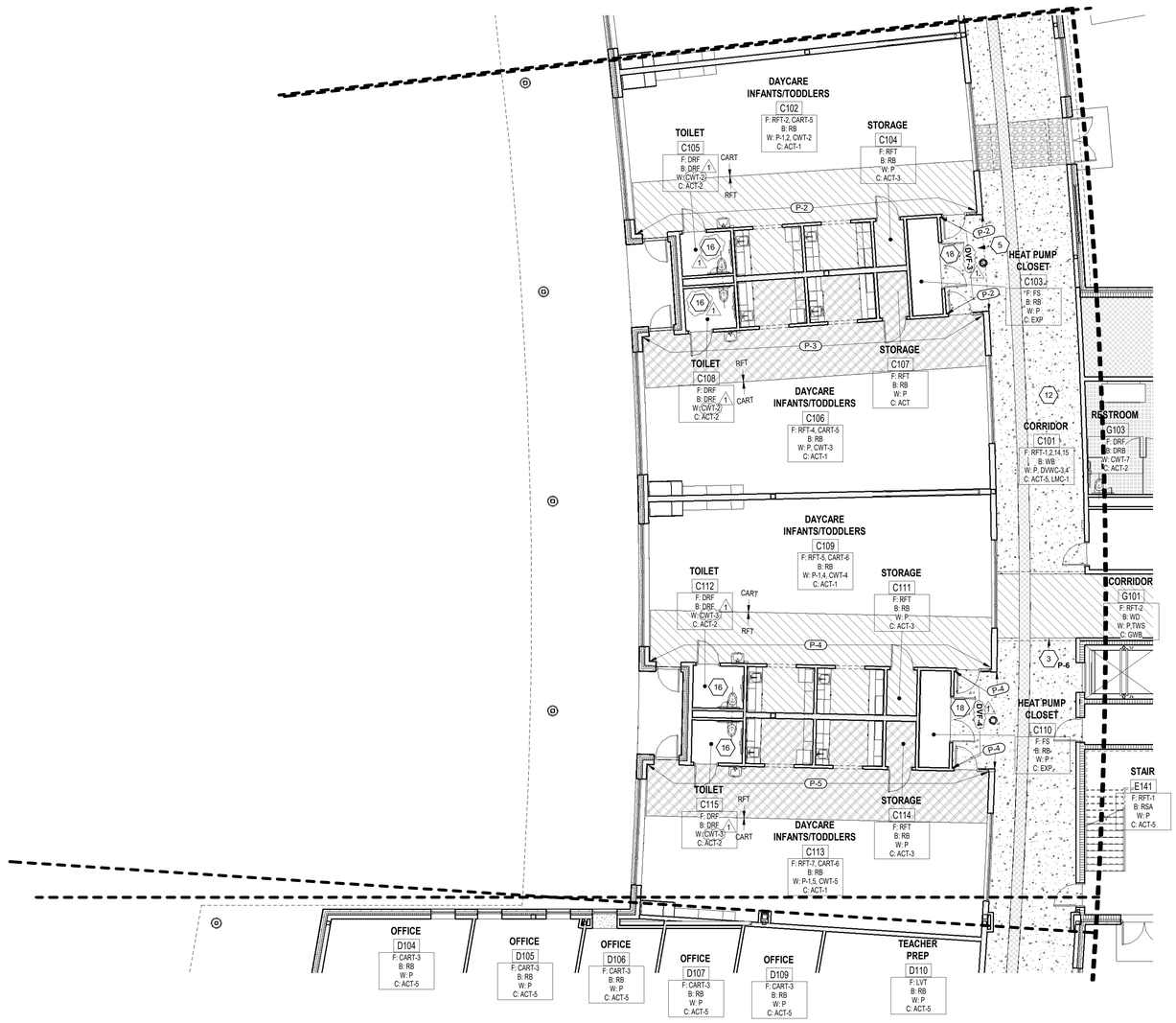
PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR FINISH PLAN - UNIT B

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FIRST FLOOR FINISH PLAN - UNIT C

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B101	CORRIDOR	1654 SF
B113	DAYCARE INFANTS/TODDLERS	1175 SF
C101	CORRIDOR	1627 SF
C102	DAYCARE INFANTS/TODDLERS	1175 SF
C103	HEAT PUMP CLOSET	55 SF
C104	STORAGE	25 SF
C105	TOILET	40 SF
C106	DAYCARE INFANTS/TODDLERS	1175 SF
C107	STORAGE	25 SF
C108	TOILET	40 SF
C109	DAYCARE INFANTS/TODDLERS	1175 SF
C110	HEAT PUMP CLOSET	55 SF
C111	STORAGE	25 SF
C112	TOILET	40 SF
C113	DAYCARE INFANTS/TODDLERS	1116 SF
C114	STORAGE	25 SF
C115	TOILET	40 SF
D103	OFFICE	116 SF
D104	OFFICE	186 SF
D105	OFFICE	187 SF
D106	OFFICE	143 SF
D107	OFFICE	159 SF
D108	CORRIDOR	292 SF
D109	OFFICE	186 SF
D110	TEACHER PREP	235 SF
D129	CORRIDOR	885 SF
E141	STAIR	346 SF
F132	CLASSROOM	1092 SF
F136	OUTDOOR STORAGE	104 SF
G101	CORRIDOR	132 SF
G102	ELECTRICAL	121 SF
G103	RESTROOM	220 SF
G104	STORAGE	169 SF
G105	CLASSROOM	943 SF
G132	CLASSROOM	1093 SF
G133	ELEVATOR EQUIPMENT	122 SF

GENERAL FINISH NOTES

A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.

B. PAINT ALL SIDES (VERT. AND HORZ.) OF BULKHEAD/SOFFIT COLOR INDICATED (UNO).

C. PROVIDE RESILIENT TRANSITION STRIPS BETWEEN FLOOR FINISH TYPES.

D. PAINT HOLLOW METAL (HM) DOOR FRAMES TO MATCH ADJACENT WALL COLOR (UNO).

E. PAINT ALL EXPOSED STRUCTURE P-11 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.

F. PROVIDE SATIN ANODIZED ALUMINUM SPECIAL PROFILE TRIM AT THE FOLLOWING LOCATIONS (TYPICAL) 1
- BETWEEN RUBBER FLOOR TILE AND CERAMIC WALL TILE: SCHLUTER DILEX-AHKA OR APPROVED EQUAL.
- BETWEEN DRY RESINOUS BASE AND CERAMIC WALL TILE: SCHLUTER-JOLLY PROFILE.
- AT TERMINATION OF PARTIAL HEIGHT CERAMIC TILED WALLS
- AT CERAMIC WALL TILE CORNERS: SCHLUTER-QUADEC: SCHLUTER-JOLLY CAP.

G. PROVIDE OUTSIDE CORNER TRIM CS CONSTRUCTION SPECIALTIES - ACROVYN (WCOS) AT IMPACT RESISTANT WALLCOVERING (IRWC) AS INDICATED ON ELEVATION ON 8/IN201.

FLOOR PATTERN/FINISH KEY NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET) 1

1 CERAMIC WALL TILE (CWT-2) FLOOR TO CEILING ON THREE SIDES OF ALCOVE.
2 MANUFACTURER BOUND 10'-0" DIAMETER ROUND AREA RUG WITH MANUFACTURER'S RECOMMENDED BACKING FOR LVT FLOORING, MADE FROM CART-4. REFER TO LIST OF FINISHES.
3 PAINT HORIZONTAL AND VERTICAL FACES OF BULKHEAD ACCENT COLOR AS INDICATED ON PLANS.
4 ALIGN RFT WITH CORNER OF WALL.
5 IMPACT RESISTANT WALL COVERING (IRWC-1) AND WOOD CHAIR RAIL TRIM TERMINATE AT CORNER (TYP.) REFER TO DETAIL ON QE501.
6 ACCENT PAINT IN ALCOVE TO MATCH ACCENT PAINT ON BULKHEAD ABOVE.
7 START WITH FULL RUBBER FLOOR TILE.
8 WOOD VENEER GRILLE SYSTEM (WGS). REFER TO ELEVATION.
9 FLOORING EXTENDS UNDER THE MILLWORK DESK. REFER TO FINISH PLANS FOR FLOORING MATERIAL. 1
10 AWNING ON WALL ABOVE. REFER TO ELEVATION.
11 PAINT UNDERSIDE OF BULKHEAD ACCENT COLOR. VARIES PER WING.
12 [ALTERNATE] INSTALL ETF-1,2,3,4,5,6 INSTEAD OF RFT IN CORRIDORS: A101, B101, C101, D129, D138.
ETF-1 REPLACES RFT-15
ETF-2 REPLACES RFT-14
ETF-3 REPLACES RFT-1
ETF-4 REPLACES RFT-12
ETF-5 REPLACES RFT-5
ETF-6 REPLACES RFT-8
13 CERAMIC WALL TILE (CWT-1 2) ON ALL WALLS. FLOOR TO CEILING. EXTENTS AS INDICATED ON FINISH PLANS. 1
14 CARPET EXTENDS TO WALL UNDER COUNTERTOP. 1
15 CERAMIC WALL TILE (CWT-X) ON ALL WALLS. FLOOR TO CEILING WITH SCHULTER TRIM (REFER TO GENERAL FINISH NOTES). REFER TO PLANS FOR FINISH SELECTION.
16 CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH DRF BASE. REFER TO PLANS FOR FINISH SELECTION.
17 PAINT EXPOSED COLUMN P-11
18 DIGITAL VINYL FILM (DVF-X) TO WRAP DOUBLE DOORS AND MOUNTED ON WALL. PAINT DOOR FRAMES TO MATCH ADJACENT ACCENT WALL. 1
19 WOOD VENEER PANELS (WVP) ON SIDE WALL(S) AND BULKHEAD. REFER TO PLANS, WALL PANEL MAY ONLY BE ON ONE WALL. REFER TO IN/01 AND ARCHITECTURAL PLAN/BULKHEAD DETAILS.
20 PAINT BULKHEAD UNDERSIDE TO MATCH SIDE WALL ACCENT COLOR AS SHOWN ON PLANS.
21 PAINT RAILING ASSEMBLY AND EXPOSED COLUMNS P-11 UP TO 8'-0". 1
22 SLIDING WINDOW WITH SOLID SURFACE SILL (SSM-2). REFER TO ARCH DWGS FOR DETAILS.
23 ALIGNT CARPET TILES WITH NORTH WALL.
24 TERRAZZO PRECAST TREADS AND RISERS. 1
25 PAINT EXPOSED COLUMNS P-11 UP TO 8'-0".

FLOOR PATTERN LEGEND

CART-1	LVT-1
CART-2	LVT-2
CART-3	RFT-1 / ETF-3
CART-4	RFT-2, 5, 8, 11
CART-5	RFT-3, 6, 9
DRF-1	RFT-4, 7, 10, 13
ECT-1	RFT-14 / ETF-2
FS	RFT-15 / ETF-1
	RTAF-1

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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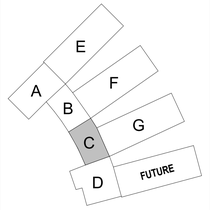
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KEY PLAN

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PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

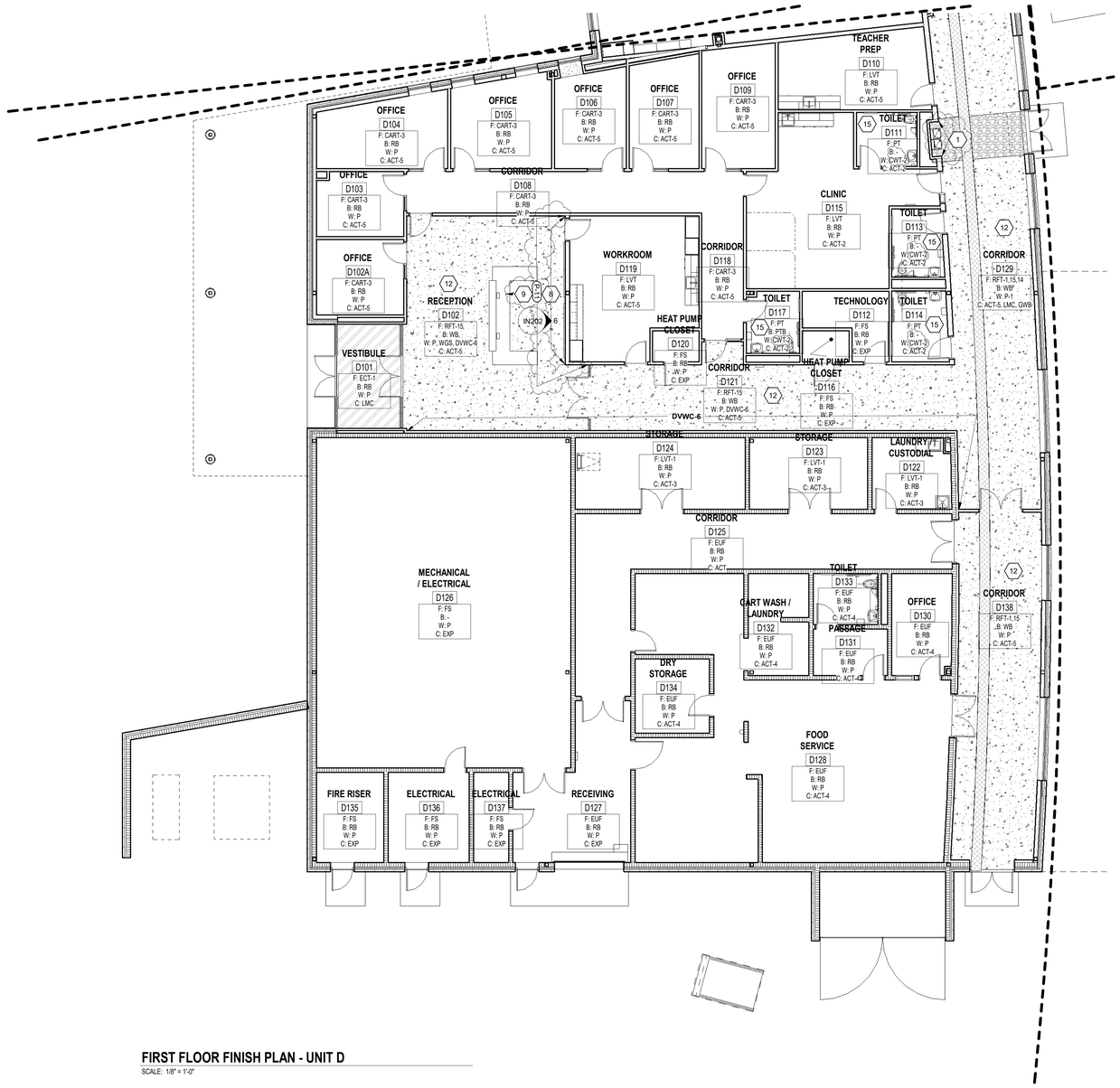
PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR FINISH PLAN - UNIT C

IF103

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FIRST FLOOR FINISH PLAN - UNIT D

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
C101	CORRIDOR	1627 SF
C113	DAYCARE INFANTS/TODDLERS	1116 SF
D101	VESTIBULE	140 SF
D102	RECEPTION	753 SF
D102A	OFFICE	138 SF
D103	OFFICE	116 SF
D104	OFFICE	186 SF
D105	OFFICE	187 SF
D106	OFFICE	143 SF
D107	OFFICE	159 SF
D108	CORRIDOR	292 SF
D109	OFFICE	186 SF
D110	TEACHER PREP	235 SF
D111	TOILET	68 SF
D112	TECHNOLOGY	92 SF
D113	TOILET	72 SF
D114	TOILET	83 SF
D115	CLINIC	481 SF
D116	HEAT PUMP CLOSET	31 SF
D117	TOILET	67 SF
D118	CORRIDOR	109 SF
D119	WORKROOM	359 SF
D120	HEAT PUMP CLOSET	30 SF
D121	CORRIDOR	520 SF
D122	LAUNDRY / CUSTODIAL	116 SF
D123	STORAGE	177 SF
D124	STORAGE	254 SF
D125	CORRIDOR	582 SF
D126	MECHANICAL / ELECTRICAL	1750 SF
D127	RECEIVING	304 SF
D128	FOOD SERVICE	1282 SF
D129	CORRIDOR	885 SF
D130	OFFICE	126 SF
D131	PASSAGE	72 SF
D132	CART WASH / LAUNDRY	129 SF
D133	TOILET	70 SF
D134	DRY STORAGE	115 SF
D135	FIRE RISER	126 SF
D136	ELECTRICAL	152 SF
D137	ELECTRICAL	65 SF
D138	CORRIDOR	599 SF
G132	CLASSROOM	1093 SF

GENERAL FINISH NOTES

A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.

B. PAINT ALL SIDES (VERT. AND HORZ.) OF BULKHEAD/SOFFIT COLOR INDICATED (UNO).

C. PROVIDE RESILIENT TRANSITION STRIPS BETWEEN FLOOR FINISH TYPES.

D. PAINT HOLLOW METAL (HM) DOOR FRAMES TO MATCH ADJACENT WALL COLOR (UNO).

E. PAINT ALL EXPOSED STRUCTURE P-11 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.

F. PROVIDE SATIN ANODIZED ALUMINUM SPECIAL PROFILE TRIM AT THE FOLLOWING LOCATIONS (TYPICAL) 1
- BETWEEN RUBBER FLOOR TILE AND CERAMIC WALL TILE: SCHLUTER DILEX-AHKA OR APPROVED EQUAL.
- BETWEEN DRY RESINOUS BASE AND CERAMIC WALL TILE: SCHLUTER-JOLLY PROFILE.
- AT TERMINATION OF PARTIAL HEIGHT CERAMIC TILED WALLS.
- AT CERAMIC WALL TILE CORNERS: SCHLUTER-QUADEC: SCHLUTER-JOLLY CAP.

G. PROVIDE OUTSIDE CORNER TRIM CS CONSTRUCTION SPECIALTIES - ACROVYN (WCOS) AT IMPACT RESISTANT WALLCOVERING (IRWC) AS INDICATED ON ELEVATION ON 8/IN201.

FLOOR PATTERN/FINISH KEY NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 CERAMIC WALL TILE (CWT-2) FLOOR TO CEILING ON THREE SIDES OF ALCOVE. 1
2 MANUFACTURER BOUND 10'-0" DIAMETER ROUND AREA RUG WITH MANUFACTURER'S RECOMMENDED BACKING FOR LVT FLOORING, MADE FROM CART-4. REFER TO LIST OF FINISHES.
3 PAINT HORIZONTAL AND VERTICAL FACES OF BULKHEAD ACCENT COLOR AS INDICATED ON PLANS.
4 ALIGN RFT WITH CORNER OF WALL.
5 IMPACT RESISTANT WALL COVERING (IRWC-1) AND WOOD CHAIR RAIL TRIM TERMINATE AT CORNER (TYP.) REFER TO DETAIL ON QES01.
6 ACCENT PAINT IN ALCOVE TO MATCH ACCENT PAINT ON BULKHEAD ABOVE.
7 START WITH FULL RUBBER FLOOR TILE.
8 WOOD VENEER GRILLE SYSTEM (WGS). REFER TO ELEVATION.
9 FLOORING EXTENDS UNDER THE MILLWORK DESK. REFER TO FINISH PLANS FOR FLOORING MATERIAL. 1
10 AR-AWT ON WALL ABOVE. REFER TO ELEVATION.
11 PAINT UNDERSIDE OF BULKHEAD ACCENT COLOR. VARIES PER WING.
12 [ALTERNATE] INSTALL ETF-1,2,3,4,5,6 INSTEAD OF RFT IN CORRIDORS: A101, B101, C101, D129, D138.
ETF-1 REPLACES RFT-15
ETF-2 REPLACES RFT-14
ETF-3 REPLACES RFT-1
ETF-4 REPLACES RFT-2
ETF-5 REPLACES RFT-5
ETF-6 REPLACES RFT-6 1
13 CERAMIC WALL TILE (CWT-1,2) ON ALL WALLS, FLOOR TO CEILING. EXTENTS AS INDICATED ON FINISH PLANS.
14 CARPET EXTENDS TO WALL UNDER COUNTERTOP. 1
15 CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH SCHLUTER TRIM (REFER TO GENERAL FINISH NOTES). REFER TO PLANS FOR FINISH SELECTION.
16 CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH DRF BASE. REFER TO PLANS FOR FINISH SELECTION.
17 PAINT EXPOSED COLUMN P-11.
18 DIGITAL VINYL FILM (DVF-X) TO WRAP DOUBLE DOORS AND MOUNTED ON WALL. PAINT DOOR FRAMES TO MATCH ADJACENT ACCENT WALL. 1
19 WOOD VENEER PANELS (WVP) ON SIDE WALL(S) AND BULKHEAD. REFER TO PLANS, WALL PANEL MAY ONLY BE ON ONE WALL. REFER TO IN501 AND ARCHITECTURAL PLAN/BULKHEAD DETAILS.
20 PAINT BULKHEAD UNDERSIDE TO MATCH SIDE WALL ACCENT COLOR AS SHOWN ON PLANS.
21 PAINT RAILING ASSEMBLY AND EXPOSED COLUMNS P-11 UP TO 8'-0" 1
22 SLIDING WINDOW WITH SOLID SURFACE SILL (SSM-2). REFER TO ARCH DWGS FOR DETAILS.
23 ALIGNT CARPET TILES WITH NORTH WALL
24 TERRAZZO PRECAST TREADS AND RISERS 1
25 PAINT EXPOSED COLUMNS P-11 UP TO 8'-0"

FLOOR PATTERN LEGEND

CART-1	LVT-1
CART-2	LVT-2
CART-3	RFT-1 / ETF-3
CART-4	RFT-2, 5, 8, 11
CART-5	RFT-3, 6, 9
DRF-1	RFT-4, 7, 10, 13
ECT-1	RFT-14 / ETF-2
FS	RFT-15 / ETF-1
	RTAF-1

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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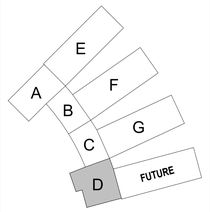
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KEY PLAN

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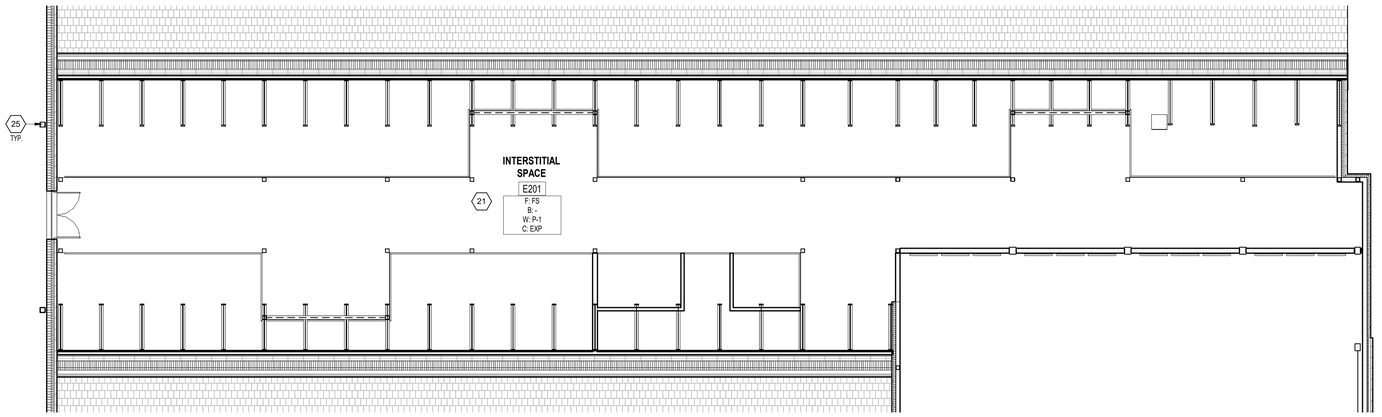
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DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR FINISH PLAN - UNIT D

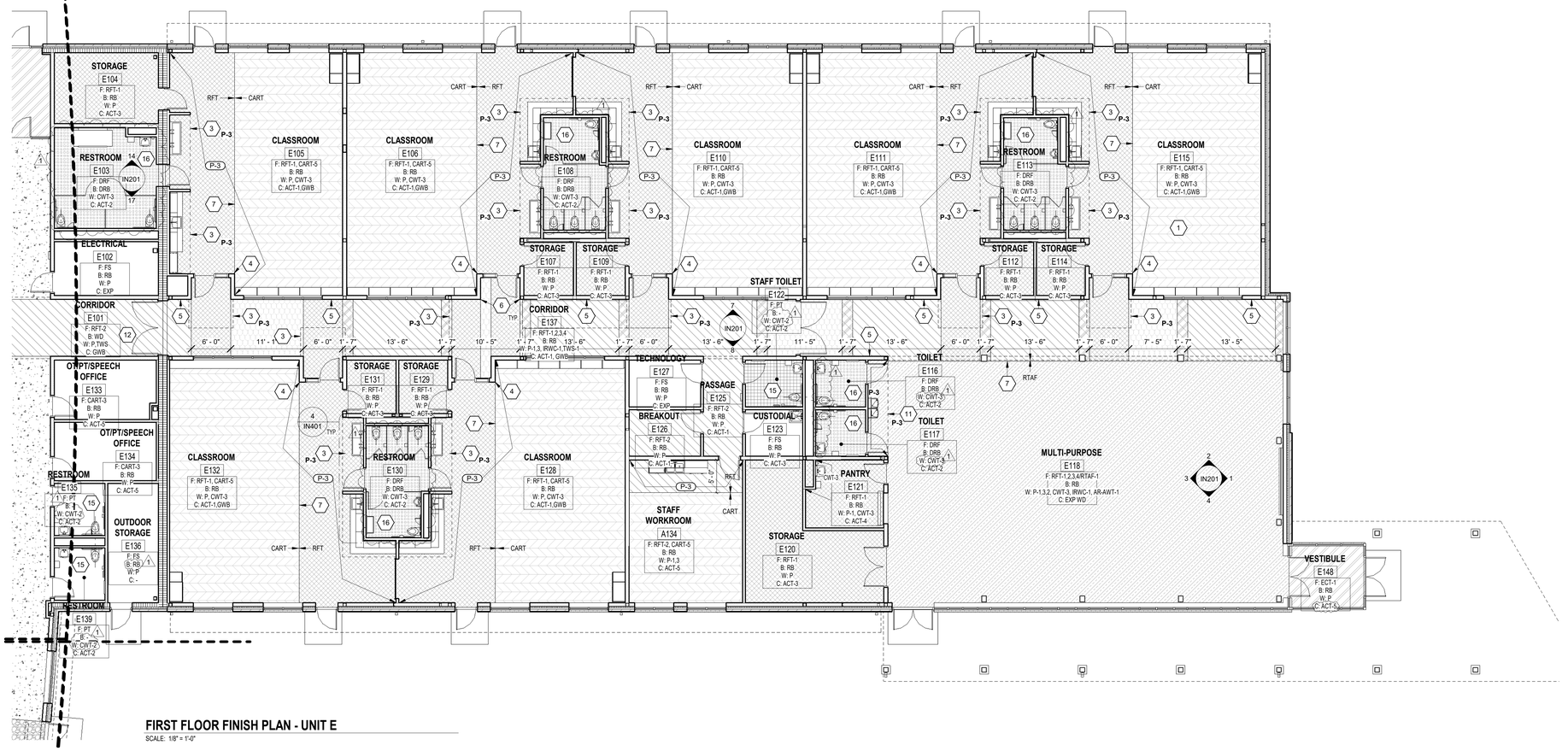
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INTERSTITIAL SPACE FINISH PLAN - UNIT E

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



FIRST FLOOR FINISH PLAN - UNIT E

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A102	VESTIBULE	155 SF
A114	ZEF FOUNDATION OFFICE	317 SF
A115	TECHNOLOGY	245 SF
A134	STAFF WORKROOM	378 SF
A201	MECHANICAL ROOM	1932 SF
B101	CORRIDOR	1654 SF
B102	DAYCARE INFANTS/TODDLERS	1303 SF
E101	CORRIDOR	142 SF
E102	ELECTRICAL	131 SF
E103	RESTROOM	233 SF
E104	STORAGE	172 SF
E105	CLASSROOM	943 SF
E106	CLASSROOM	1095 SF
E107	STORAGE	61 SF
E108	RESTROOM	156 SF
E109	STORAGE	61 SF
E110	CLASSROOM	1095 SF
E111	CLASSROOM	1095 SF
E112	STORAGE	61 SF
E113	RESTROOM	155 SF
E114	STORAGE	61 SF
E115	CLASSROOM	1087 SF
E116	TOILET	54 SF
E117	TOILET	54 SF
E118	MULTI-PURPOSE	2890 SF
E120	STORAGE	327 SF
E121	PANTRY	118 SF
E122	STAFF TOILET	63 SF
E123	CUSTODIAL	62 SF
E125	PASSAGE	91 SF
E126	BREAKOUT	77 SF
E127	TECHNOLOGY	78 SF
E128	CLASSROOM	1094 SF
E129	STORAGE	61 SF
E130	RESTROOM	156 SF
E131	STORAGE	61 SF
E132	CLASSROOM	1093 SF
E133	OT/PT/SPEECH OFFICE	138 SF
E134	OT/PT/SPEECH OFFICE	139 SF
E135	RESTROOM	62 SF
E136	OUTDOOR STORAGE	142 SF
E137	CORRIDOR	931 SF
E139	RESTROOM	62 SF
E143	CORRIDOR	868 SF
E148	VESTIBULE	111 SF
E201	INTERSTITIAL SPACE	2258 SF
S-1	STAIR	382 SF

GENERAL FINISH NOTES

A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.

B. PAINT ALL SIDES (VERT. AND HORZ.) OF BULKHEAD/SOFFIT COLOR INDICATED (UNO).

C. PROVIDE RESILIENT TRANSITION STRIPS BETWEEN FLOOR FINISH TYPES.

D. PAINT HOLLOW METAL (HM) DOOR FRAMES TO MATCH ADJACENT WALL COLOR (UNO).

E. PAINT ALL EXPOSED STRUCTURE P-11 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.

F. PROVIDE SATIN ANODIZED ALUMINUM SPECIAL PROFILE TRIM AT THE FOLLOWING LOCATIONS (TYPICAL): (1)
- BETWEEN RUBBER FLOOR TILE AND CERAMIC WALL TILE: SCHLUTER DILEX-AHKA OR APPROVED EQUAL.
- BETWEEN DRY RESINOUS BASE AND CERAMIC WALL TILE: SCHLUTER-JOLLY PROFILE.
- AT TERMINATION OF PARTIAL HEIGHT CERAMIC TILED WALLS.
- AT CERAMIC WALL TILE CORNERS: SCHLUTER-QUADEC: SCHLUTER-JOLLY CAP.

G. PROVIDE OUTSIDE CORNER TRIM C5 CONSTRUCTION SPECIALTIES - ACROVYN (WCOS) AT IMPACT RESISTANT WALLCOVERING (IRWC) AS INDICATED ON ELEVATION ON 8/IN201.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 CERAMIC WALL TILE (CWT-2) FLOOR TO CEILING ON THREE SIDES OF ALCOVE. (1)
2 MANUFACTURER BOUND 10'-0" DIAMETER ROUND AREA RUG WITH MANUFACTURER'S RECOMMENDED BACKING FOR LVT FLOORING, MADE FROM CART-4. REFER TO LIST OF FINISHES.
3 PAINT HORIZONTAL AND VERTICAL FACES OF BULKHEAD ACCENT COLOR AS INDICATED ON PLANS.
4 ALIGN RFT WITH CORNER OF WALL.
5 IMPACT RESISTANT WALL COVERING (RWC-1) AND WOOD CHAIR RAIL TRIM TERMINATE AT CORNER (TYP.) REFER TO DETAIL ON QES01.
6 ACCENT PAINT IN ALCOVE TO MATCH ACCENT PAINT ON BULKHEAD ABOVE.
7 START WITH FULL RUBBER FLOOR TILE.
8 WOOD VENEER GRILLE SYSTEM (WGS). REFER TO ELEVATION.
9 FLOORING EXTENDS UNDER THE MILLWORK DESK. REFER TO FINISH PLANS FOR FLOORING MATERIAL. (1)
10 AR-AWT ON WALL ABOVE. REFER TO ELEVATION. (1)
11 PAINT UNDERSIDE OF BULKHEAD ACCENT COLOR. VARIES PER WING.
12 [ALTERNATE] INSTALL ETF-1,2,3,4,5,6 INSTEAD OF RFT IN CORRIDORS: A101, B101, C101, D129, D138.
ETF-1 REPLACES RFT-15
ETF-2 REPLACES RFT-14
ETF-3 REPLACES RFT-1
ETF-4 REPLACES RFT-2
ETF-5 REPLACES RFT-5
ETF-6 REPLACES RFT-6 (1)
13 CERAMIC WALL TILE(CWT-1,2) ON ALL WALLS, FLOOR TO CEILING. EXTENTS AS INDICATED ON FINISH PLANS.
14 CARPET EXTENDS TO WALL UNDER COUNTERTOP. (1)
15 CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH SCHLUTER TRIM (REFER TO GENERAL FINISH NOTES). REFER TO PLANS FOR FINISH SELECTION.
16 CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH DRF BASE. REFER TO PLANS FOR FINISH SELECTION.
17 PAINT EXPOSED COLUMN P-11.
18 DIGITAL VINYL FILM (DVF-X) TO WRAP DOUBLE DOORS AND MOUNTED ON WALL. PAINT DOOR FRAMES TO MATCH ADJACENT ACCENT WALL. (1)
19 WOOD VENEER PANELS (WVP) ON SIDE WALL(S) AND BULKHEAD. REFER TO PLANS, WALL PANEL MAY ONLY BE ON ONE WALL. REFER TO IN501 AND ARCHITECTURAL PLANS/ELEVATIONS.
20 PAINT BULKHEAD UNDERSIDE TO MATCH SIDE WALL ACCENT COLOR AS SHOWN ON PLANS.
21 PAINT RAILING ASSEMBLY AND EXPOSED COLUMNS P-11 UP TO 8'-0" (1)
22 SLIDING WINDOW WITH SOLID SURFACE SILL (SSM-2). REFER TO ARCH DWGS FOR DETAILS.
23 ALIGNT CARPET TILES WITH NORTH WALL.
24 TERRAZZO PRECAST TREADS AND RISERS. (1)
25 PAINT EXPOSED COLUMNS P-11 UP TO 8'-0"

FLOOR PATTERN LEGEND

CART-1, CART-2, CART-3, CART-4, CART-5, DRF-1, ECT-1, FS, LVT-1, LVT-2, RFT-1 / ETF-3, RFT-2, 5, 8, 11, RFT-3, 6, 9, RFT-4, 7, 10, 13, RFT-14 / ETF-2, RFT-15 / ETF-1, RTAF-1

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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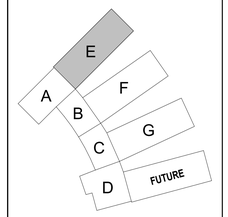
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KEY PLAN

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100% CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

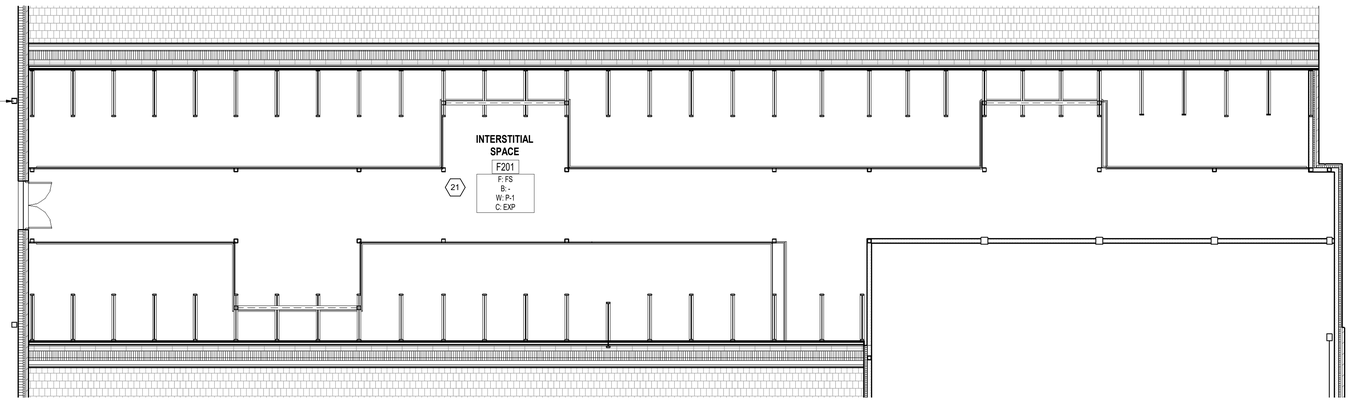
PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR FINISH PLAN - UNIT E

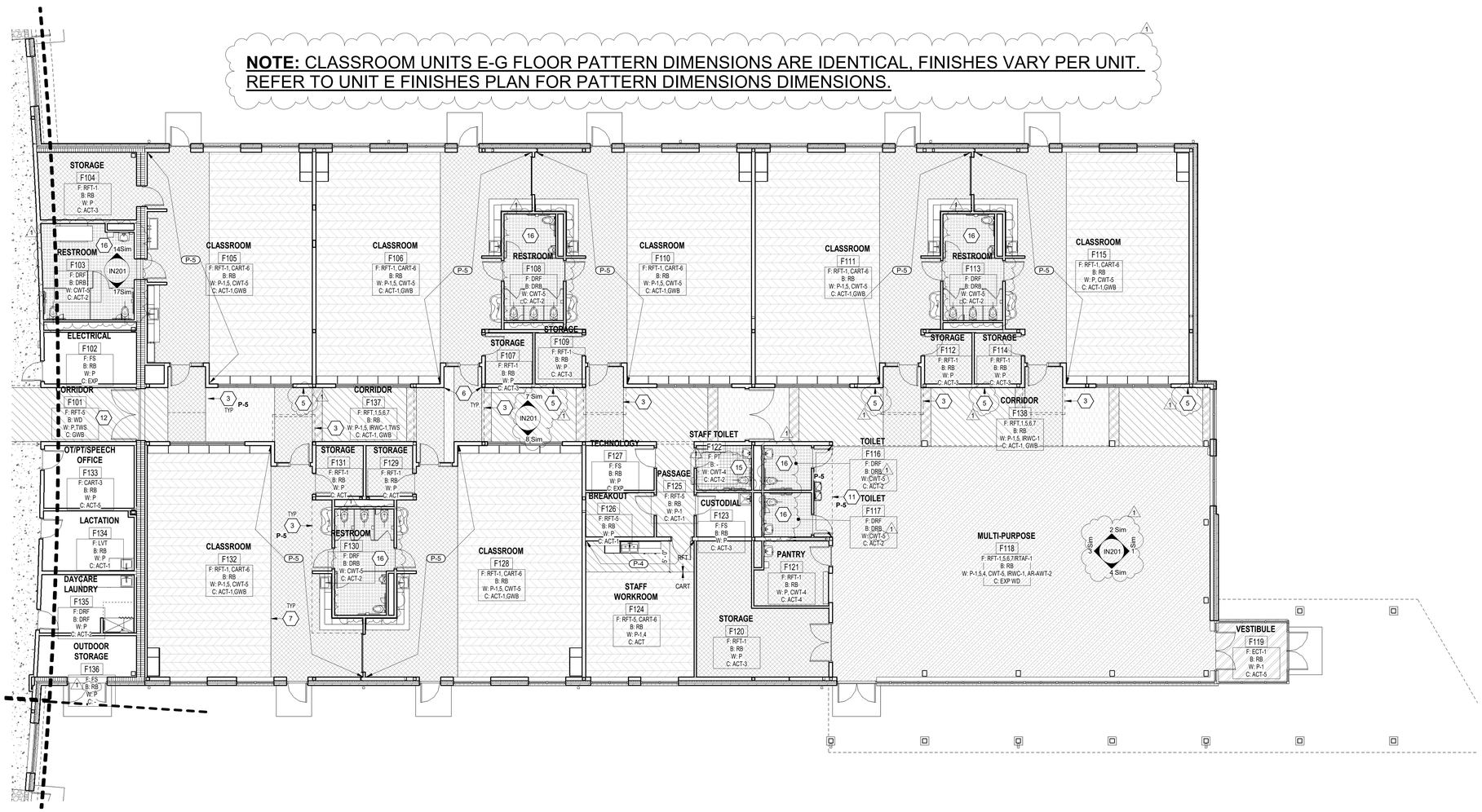
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INTERSTITIAL SPACE FINISH PLAN - UNIT F

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



FIRST FLOOR FINISH PLAN - UNIT F

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B101	CORRIDOR	1654 SF
B102	DAYCARE INFANTS/TODDLERS	1303 SF
B106	DAYCARE INFANTS/TODDLERS	1175 SF
B109	DAYCARE INFANTS/TODDLERS	1175 SF
B113	DAYCARE INFANTS/TODDLERS	1175 SF
B201	MECHANICAL ROOM	1923 SF
B227	CORRIDOR	569 SF
C101	CORRIDOR	1627 SF
C102	DAYCARE INFANTS/TODDLERS	1175 SF
F101	CORRIDOR	132 SF
F102	ELECTRICAL	121 SF
F103	RESTROOM	220 SF
F104	STORAGE	169 SF
F105	CLASSROOM	943 SF
F106	CLASSROOM	1095 SF
F107	STORAGE	61 SF
F108	RESTROOM	153 SF
F109	STORAGE	61 SF
F110	CLASSROOM	1095 SF
F111	CLASSROOM	1095 SF
F112	STORAGE	61 SF
F113	RESTROOM	153 SF
F114	STORAGE	61 SF
F115	CLASSROOM	1087 SF
F116	TOILET	54 SF
F117	TOILET	54 SF
F118	MULTI-PURPOSE	2280 SF
F119	VESTIBULE	111 SF
F120	STORAGE	327 SF
F121	PANTRY	117 SF
F122	STAFF TOILET	63 SF
F123	CUSTODIAL	62 SF
F124	STAFF WORKROOM	378 SF
F125	PASSAGE	91 SF
F126	BREAKOUT	77 SF
F127	TECHNOLOGY	78 SF
F128	CLASSROOM	1095 SF
F129	STORAGE	61 SF
F130	RESTROOM	153 SF
F131	STORAGE	61 SF
F132	CLASSROOM	1092 SF
F133	OT/PT/SPEECH OFFICE	145 SF
F134	LACTATION	139 SF
F135	DAYCARE LAUNDRY	140 SF
F136	OUTDOOR STORAGE	104 SF
F137	CORRIDOR	931 SF
F138	CORRIDOR	599 SF
F201	INTERSTITIAL SPACE	2246 SF

GENERAL FINISH NOTES

A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.

B. PAINT ALL SIDES (VERT. AND HORZ.) OF BULKHEAD/SOFFIT COLOR INDICATED (UNO).

C. PROVIDE RESILIENT TRANSITION STRIPS BETWEEN FLOOR FINISH TYPES.

D. PAINT HOLLOW METAL (HM) DOOR FRAMES TO MATCH ADJACENT WALL COLOR (UNO).

E. PAINT ALL EXPOSED STRUCTURE P-11 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.

F. PROVIDE SATIN ANODIZED ALUMINUM SPECIAL PROFILE TRIM AT THE FOLLOWING LOCATIONS (TYPICAL):
- BETWEEN RUBBER FLOOR TILE AND CERAMIC WALL TILE: SCHLUTER DILEX-AHKA OR APPROVED EQUAL.
- BETWEEN DRY RESINOUS BASE AND CERAMIC WALL TILE: SCHLUTER-JOLLY PROFILE.
- AT TERMINATION OF PARTIAL HEIGHT CERAMIC TILED WALLS.
- AT CERAMIC WALL TILE CORNERS: SCHLUTER-QUADEC: SCHLUTER-JOLLY CAP.

G. PROVIDE OUTSIDE CORNER TRIM CS CONSTRUCTION SPECIALTIES - ACROVYN (WCOS) AT IMPACT RESISTANT WALLCOVERING (IRWC) AS INDICATED ON ELEVATION ON 8/IN201.

FLOOR PATTERN/FINISH KEY NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 CERAMIC WALL TILE (CWT-2) FLOOR TO CEILING ON THREE SIDES OF ALCOVE.
2 MANUFACTURER BOUND 10'-0" DIAMETER ROUND AREA RUG WITH MANUFACTURERS RECOMMENDED BACKING FOR LVT FLOORING, MADE FROM CART-4. REFER TO LIST OF FINISHES.
3 PAINT HORIZONTAL AND VERTICAL FACES OF BULKHEAD ACCENT COLOR AS INDICATED ON PLANS.
4 ALIGN RFT WITH CORNER OF WALL.
5 IMPACT RESISTANT WALL COVERING (IRWC-1) AND WOOD CHAIR RAIL TRIM TERMINATE AT CORNER (TYP.) REFER TO DETAIL ON GES01.
6 ACCENT PAINT IN ALCOVE TO MATCH ACCENT PAINT ON BULKHEAD ABOVE.
7 START WITH FULL RUBBER FLOOR TILE.
8 WOOD VENEER GRILLE SYSTEM (WGS). REFER TO ELEVATION.
9 FLOORING EXTENDS UNDER THE MILLWORK DESK. REFER TO FINISH PLANS FOR FLOORING MATERIAL.
10 AR-AWT ON WALL ABOVE. REFER TO ELEVATION.
11 PAINT UNDERSIDE OF BULKHEAD ACCENT COLOR. VARIES PER WING.
12 [ALTERNATE] INSTALL ETF-1,2,3,4,5,6 INSTEAD OF RFT IN CORRIDORS: A101, B101, C101, D129, D138.
ETF-1 REPLACES RFT-15
ETF-2 REPLACES RFT-14
ETF-3 REPLACES RFT-1
ETF-4 REPLACES RFT-2
ETF-5 REPLACES RFT-5
ETF-6 REPLACES RFT-8
13 CERAMIC WALL TILE (CWT-1,2) ON ALL WALLS, FLOOR TO CEILING. EXTENTS AS INDICATED ON FINISH PLANS.
14 CARPET EXTENDS TO WALL UNDER COUNTERTOP.
15 CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH SCHLUTER TRIM (REFER TO GENERAL FINISH NOTES). REFER TO PLANS FOR FINISH SELECTION.
16 CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH DRF BASE. REFER TO PLANS FOR FINISH SELECTION.
17 PAINT EXPOSED COLUMN P-11.
18 DIGITAL VINYL FILM (DVF-X) TO WRAP DOUBLE DOORS AND MOUNTED ON WALL. PAINT DOOR FRAMES TO MATCH ADJACENT ACCENT WALL.
19 WOOD VENEER PANELS (WVP) ON SIDE WALL(S) AND BULKHEAD. REFER TO PLANS. WALL PANEL MAY ONLY BE ON ONE WALL. REFER TO IN501 AND ARCHITECTURAL PLAN/BULKHEAD DETAILS.
20 PAINT BULKHEAD UNDERSIDE TO MATCH SIDE WALL ACCENT COLOR AS SHOWN ON PLANS.
21 PAINT RAILING ASSEMBLY AND EXPOSED COLUMNS P-11 UP TO 8'-0".
22 SLIDING WINDOW WITH SOLID SURFACE SILL (SSM-2). REFER TO ARCH DWGS FOR DETAILS.
23 ALIGNT CARPET TILES WITH NORTH WALL.
24 TERRAZZO PRECAST TREADS AND RISERS.
25 PAINT EXPOSED COLUMNS P-11 UP TO 8'-0"

FLOOR PATTERN LEGEND

CART-1
CART-2
CART-3
CART-4
CART-5
DRF-1
ECT-1
FS
LVT-1
LVT-2
RFT-1 / ETF-3
RFT-2, 5, 8, 11
RFT-3, 6, 9
RFT-4, 7, 10, 13
RFT-14 / ETF-2
RFT-15 / ETF-1
RTAF-1

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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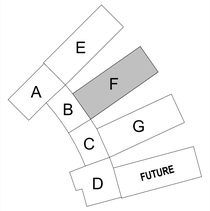
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KEY PLAN

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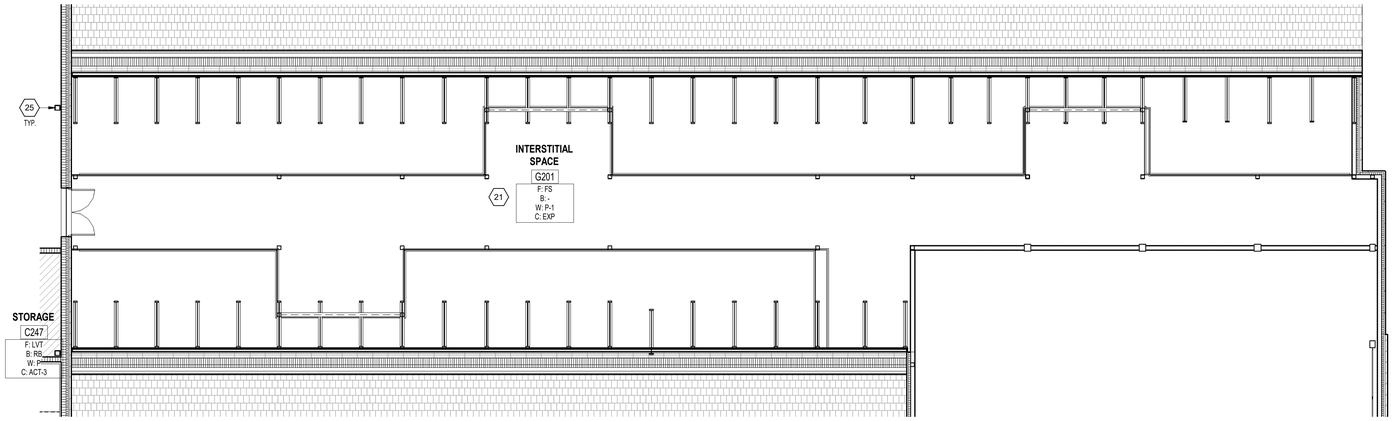
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DRAWN BY: VM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR FINISH PLAN - UNIT F

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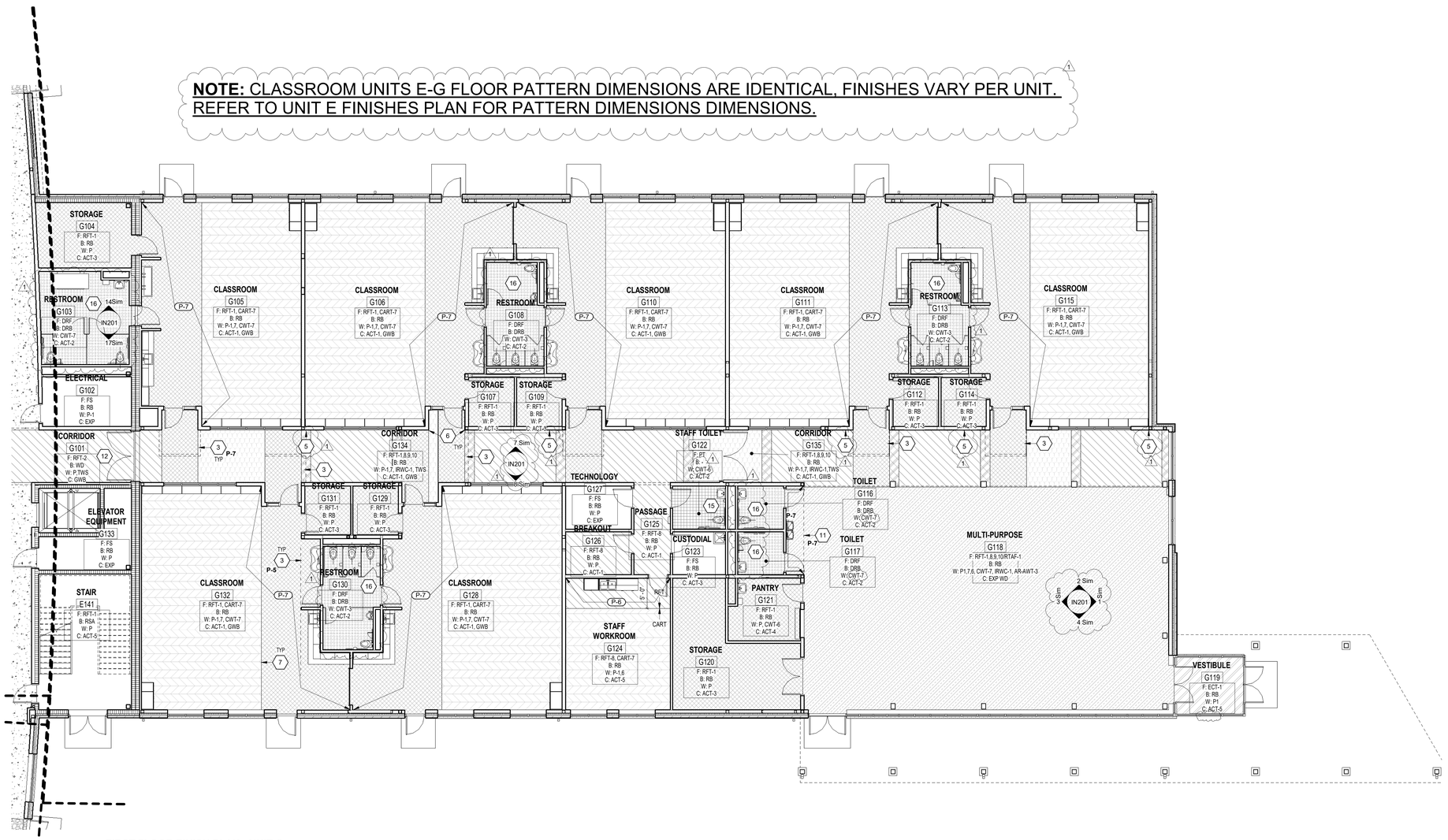
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INTERSTITIAL SPACE FINISH PLAN - UNIT G

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

NOTE: CLASSROOM UNITS E-G FLOOR PATTERN DIMENSIONS ARE IDENTICAL, FINISHES VARY PER UNIT. REFER TO UNIT E FINISHES PLAN FOR PATTERN DIMENSIONS DIMENSIONS.



FIRST FLOOR FINISH PLAN - UNIT G

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
C101	CORRIDOR	1627 SF
C106	DAYCARE INFANTS/TODDLERS	1175 SF
C109	DAYCARE INFANTS/TODDLERS	1175 SF
C231	CORRIDOR	765 SF
C235	MECHANICAL ROOM	1241 SF
C247	STORAGE	121 SF
D129	CORRIDOR	885 SF
E141	STAIR	346 SF
E-2	ELEVATOR	75 SF
G101	CORRIDOR	132 SF
G102	ELECTRICAL	121 SF
G103	RESTROOM	220 SF
G104	STORAGE	169 SF
G105	CLASSROOM	943 SF
G106	CLASSROOM	1095 SF
G107	STORAGE	61 SF
G108	RESTROOM	156 SF
G109	STORAGE	61 SF
G110	CLASSROOM	1095 SF
G111	CLASSROOM	1095 SF
G112	STORAGE	61 SF
G113	RESTROOM	155 SF
G114	STORAGE	61 SF
G115	CLASSROOM	1087 SF
G116	TOILET	54 SF
G117	TOILET	54 SF
G118	MULTI-PURPOSE	2879 SF
G119	VESTIBULE	111 SF
G120	STORAGE	327 SF
G121	PANTRY	117 SF
G122	STAFF TOILET	63 SF
G123	CUSTODIAL	62 SF
G124	STAFF WORKROOM	378 SF
G125	PASSAGE	91 SF
G126	BREAKOUT	77 SF
G127	TECHNOLOGY	78 SF
G128	CLASSROOM	1096 SF
G129	STORAGE	61 SF
G130	RESTROOM	155 SF
G131	STORAGE	61 SF
G132	CLASSROOM	1093 SF
G133	ELEVATOR EQUIPMENT	122 SF
G134	CORRIDOR	931 SF
G135	CORRIDOR	116 SF
G201	INTERSTITIAL SPACE	2246 SF

GENERAL FINISH NOTES

A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.

B. PAINT ALL SIDES (VERT. AND HORZ.) OF BULKHEAD/SOFFIT COLOR INDICATED (UNO).

C. PROVIDE RESILIENT TRANSITION STRIPS BETWEEN FLOOR FINISH TYPES.

D. PAINT HOLLOW METAL (HM) DOOR FRAMES TO MATCH ADJACENT WALL COLOR (UNO).

E. PAINT ALL EXPOSED STRUCTURE P-11 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.

F. PROVIDE SATIN ANODIZED ALUMINUM SPECIAL PROFILE TRIM AT THE FOLLOWING LOCATIONS (TYPICAL): (1)
- BETWEEN RUBBER FLOOR TILE AND CERAMIC WALL TILE: SCHLUTER DILEX-AHKA OR APPROVED EQUAL.
- BETWEEN DRY RESINOUS BASE AND CERAMIC WALL TILE: SCHLUTER-JOLLY PROFILE.
- AT TERMINATION OF PARTIAL HEIGHT CERAMIC TILED WALLS.
- AT CERAMIC WALL TILE CORNERS: SCHLUTER-QUADEC: SCHLUTER-JOLLY CAP.

G. PROVIDE OUTSIDE CORNER TRIM C5 CONSTRUCTION SPECIALTIES - ACROVYN (WCOS) AT IMPACT RESISTANT WALLCOVERING (IRWC) AS INDICATED ON ELEVATION ON 8/IN201.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 CERAMIC WALL TILE (CWT-2) FLOOR TO CEILING ON THREE SIDES OF ALCOVE. (1)
2 MANUFACTURER BOUND 10'-0" DIAMETER ROUND AREA RUG WITH MANUFACTURER'S RECOMMENDED BACKING FOR LVT FLOORING, MADE FROM CART-4. REFER TO LIST OF FINISHES.
3 PAINT HORIZONTAL AND VERTICAL FACES OF BULKHEAD ACCENT COLOR AS INDICATED ON PLANS.
4 ALIGN RFT WITH CORNER OF WALL.
5 IMPACT RESISTANT WALL COVERING (IRWC-1) AND WOOD CHAIR RAIL TRIM TERMINATE AT CORNER (TYP.) REFER TO DETAIL ON GES01.
6 ACCENT PAINT IN ALCOVE TO MATCH ACCENT PAINT ON BULKHEAD ABOVE.
7 START WITH FULL RUBBER FLOOR TILE.
8 WOOD VENEER GRILLE SYSTEM (WGS). REFER TO ELEVATION.
9 FLOORING EXTENDS UNDER THE MILLWORK DESK. REFER TO FINISH PLANS FOR FLOORING MATERIAL. (1)
10 AR-AWT ON WALL ABOVE. REFER TO ELEVATION. (1)
11 PAINT UNDERSIDE OF BULKHEAD ACCENT COLOR. VARIES PER WING.
12 [ALTERNATE] INSTALL ETF-1,2,3,4,5,6 INSTEAD OF RFT IN CORRIDORS: A101, B101, C101, D129, D138.
ETF-1 REPLACES RFT-15
ETF-2 REPLACES RFT-14
ETF-3 REPLACES RFT-1
ETF-4 REPLACES RFT-2
ETF-5 REPLACES RFT-5
ETF-6 REPLACES RFT-8 (1)
13 CERAMIC WALL TILE (CWT-1,2) ON ALL WALLS, FLOOR TO CEILING. EXTENTS AS INDICATED ON FINISH PLANS.
14 CARPET EXTENDS TO WALL UNDER COUNTERTOP. (1)
15 CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH SCHLUTER TRIM (REFER TO GENERAL FINISH NOTES). REFER TO PLANS FOR FINISH SELECTION.
16 CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH DRF BASE. REFER TO PLANS FOR FINISH SELECTION.
17 PAINT EXPOSED COLUMN P-11.
18 DIGITAL VINYL FILM (DVF-X) TO WRAP DOUBLE DOORS AND MOUNTED ON WALL. PAINT DOOR FRAMES TO MATCH ADJACENT ACCENT WALL. (1)
19 WOOD VENEER PANELS (WVP) ON SIDE WALL(S) AND BULKHEAD. REFER TO PLANS. WALL PANEL MAY ONLY BE ON ONE WALL. REFER TO IN501 AND ARCHITECTURAL PLAN/BULKHEAD DETAILS.
20 PAINT BULKHEAD UNDERSIDE TO MATCH SIDE WALL ACCENT COLOR AS SHOWN ON PLANS.
21 PAINT RAILING ASSEMBLY AND EXPOSED COLUMNS P-11 UP TO 8'-0". (1)
22 SLIDING WINDOW WITH SOLID SURFACE SILL (SSM-2). REFER TO ARCH DWGS FOR DETAILS.
23 ALIGNT CARPET TILES WITH NORTH WALL.
24 TERRAZZO PRECAST TREADS AND RISERS. (1)
25 PAINT EXPOSED COLUMNS P-11 UP TO 8'-0"

FLOOR PATTERN LEGEND

CART-1
CART-2
CART-3
CART-4
CART-5
DRF-1
ECT-1
FS
LVT-1
LVT-2
RFT-1 / ETF-3
RFT-2, 5, 8, 11
RFT-3, 6, 9
RFT-4, 7, 10, 13
RFT-14 / ETF-2
RFT-15 / ETF-1
RTAF-1

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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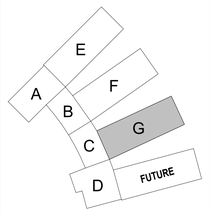
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ARCHITECT

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350 E NEW YORK ST #300, INDIANAPOLIS, IN 46204



KEY PLAN

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100% CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

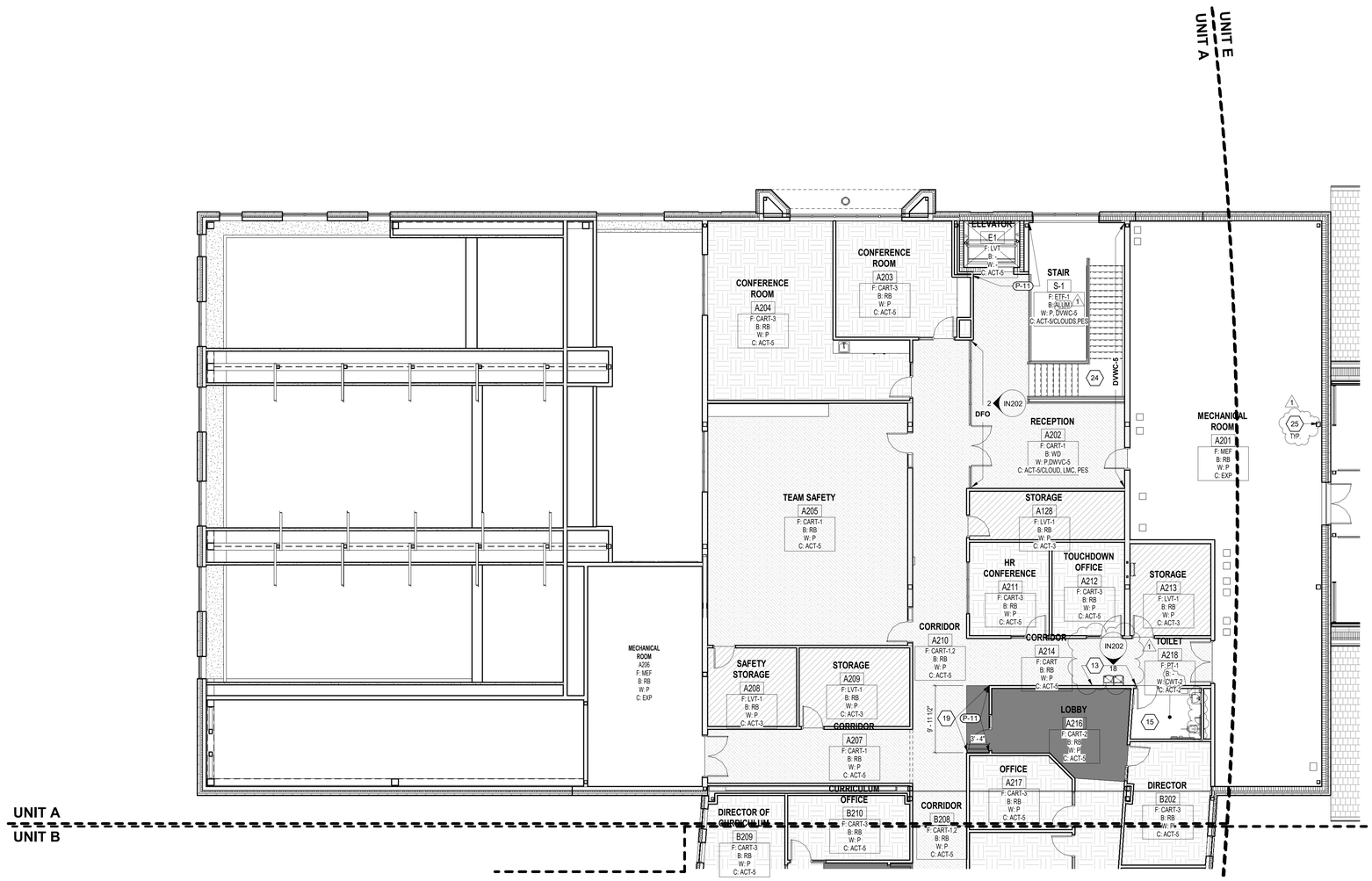
PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR FINISH PLAN - UNIT G

IF107

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GENERAL FINISH NOTES

A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.
B. PAINT ALL SIDES (VERT. AND HORZ.) OF BULKHEAD/SOFFIT COLOR INDICATED (UNO).
C. PROVIDE RESILIENT TRANSITION STRIPS BETWEEN FLOOR FINISH TYPES.
D. PAINT HOLLOW METAL (HM) DOOR FRAMES TO MATCH ADJACENT WALL COLOR (UNO).
E. PAINT ALL EXPOSED STRUCTURE P-11 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.
F. PROVIDE SATIN ANODIZED ALUMINUM SPECIAL PROFILE TRIM AT THE FOLLOWING LOCATIONS (TYPICAL) (1)
   - BETWEEN RUBBER FLOOR TILE AND CERAMIC WALL TILE: SCHLUTER DILEX-AHKA OR APPROVED EQUAL.
   - BETWEEN DRY RESINOUS BASE AND CERAMIC WALL TILE: SCHLUTER-JOLLY PROFILE.
   - AT TERMINATION OF PARTIAL HEIGHT CERAMIC TILED WALLS.
   - AT CERAMIC WALL TILE CORNERS: SCHLUTER-QUADEC: SCHLUTER-JOLLY CAP.
G. PROVIDE OUTSIDE CORNER TRIM CS CONSTRUCTION SPECIALTIES - ACROVYN (WCOS) AT IMPACT RESISTANT WALLCOVERING (IRWC) AS INDICATED ON ELEVATION ON 8/IN201.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

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4 ALIGN RFT WITH CORNER OF WALL.
5 IMPACT RESISTANT WALL COVERING (IRWC-1) AND WOOD CHAIR RAIL TRIM TERMINATE AT CORNER (TYP.) REFER TO DETAIL ON QE501
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7 START WITH FULL RUBBER FLOOR TILE.
8 WOOD VENEER GRILLE SYSTEM (WGS). REFER TO ELEVATION.
9 FLOORING EXTENDS UNDER THE MILLWORK DESK. REFER TO FINISH PLANS FOR FLOORING MATERIAL. (1)
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   ETF-5 REPLACES RFT-5
   ETF-6 REPLACES RFT-6 (1)
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14 CARPET EXTENDS TO WALL UNDER COUNTERTOP. (1)
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25 PAINT EXPOSED COLUMNS P-11 UP TO 8'-0".

FLOOR PATTERN LEGEND

CART-1	LVT-1
CART-2	LVT-2
CART-3	RFT-1 / ETF-3
CART-4	RFT-2, 5, 8, 11
CART-5	RFT-3, 6, 9
DRF-1	RFT-4, 7, 10, 13
ECT-1	RFT-14 / ETF-2
FS	RFT-15 / ETF-1
	RTAF-1

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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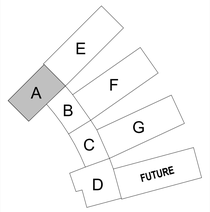
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KEY PLAN

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100% CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800181 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

SECOND FLOOR FINISH PLAN - UNIT A

IF108

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SECOND FLOOR FINISH PLAN - UNIT B

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A129	CORRIDOR	1544 SF
A201	MECHANICAL ROOM	1932 SF
A205	TEAM SAFETY	1067 SF
A206	MECHANICAL ROOM	556 SF
A207	CORRIDOR	244 SF
A208	SAFETY STORAGE	155 SF
A209	STORAGE	192 SF
A210	CORRIDOR	596 SF
A214	CORRIDOR	230 SF
A216	LOBBY	227 SF
A217	OFFICE	161 SF
A218	TOILET	77 SF
A223	CURRICULUM ADMIN ASST	175 SF
A225	PASSAGE	78 SF
A226	LOBBY	173 SF
B201	MECHANICAL ROOM	1923 SF
B202	DIRECTOR	224 SF
B203	PASSAGE	156 SF
B204	OFFICE	161 SF
B205	OFFICE	160 SF
B206	HR COORDINATION	199 SF
B207	DIRECTOR OF SAFETY	212 SF
B208	CORRIDOR	384 SF
B209	DIRECTOR OF CURRICULUM	188 SF
B210	CURRICULUM OFFICE	173 SF
B211	CURRICULUM OFFICE	151 SF
B212	DIRECTOR OF CURRICULUM	243 SF
B216	LOBBY	316 SF
B217	PROGRAM DIRECTOR OF STUDENT SERVICES	243 SF
B218	ASSISTANT DIRECTOR	200 SF
B219	ASSISTANT DIRECTOR	190 SF
B221	SPECIAL EDUCATION OFFICE	153 SF
B222	SECURE STORAGE	63 SF
B223	SPECIAL EDUCATION ADMIN ASST	144 SF
B224	PASSAGE	263 SF
B225	SPECIAL ED STORAGE	151 SF
B226	CONFERENCE ROOM	206 SF
B227	CORRIDOR	569 SF
B227	TOUCHDOWN AREA	72 SF
B228	STORAGE	63 SF
B229	PUBLIC RELATIONS	190 SF
B231	CUSTODIAL	60 SF
B232	RESTROOM	259 SF
B233	RESTROOM	245 SF
B234	CORRIDOR	170 SF
B235	CORRIDOR	416 SF
B236	LOBBY	246 SF
B237	OFFICE LIBRARY	266 SF
B238	SUPERINTENDENT	445 SF
B250	DIRECTOR OF UNIFIED STUDENT SERVICES	245 SF
C202	LOUNGE	989 SF
C203	TOUCHDOWN AREA	606 SF
C204	ADMIN. ASSISTANT	164 SF
C205	ASSISTANT SUPERINTENDENT	268 SF
C207	PASSAGE	138 SF
C208	HEAT PUMP CLOSET	51 SF
C209	STORAGE	103 SF
E201	INTERSTITIAL SPACE	2258 SF
F201	INTERSTITIAL SPACE	2246 SF

GENERAL FINISH NOTES

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C. PROVIDE RESILIENT TRANSITION STRIPS BETWEEN FLOOR FINISH TYPES.

D. PAINT HOLLOW METAL (HM) DOOR FRAMES TO MATCH ADJACENT WALL COLOR (UNO).

E. PAINT ALL EXPOSED STRUCTURE P-11 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.

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G. PROVIDE OUTSIDE CORNER TRIM CS CONSTRUCTION SPECIALTIES - ACROVYN (WCOS) AT IMPACT RESISTANT WALLCOVERING (IRWC) AS INDICATED ON ELEVATION ON 8/IN201.

FLOOR PATTERN/FINISH KEY NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

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6. ACCENT PAINT IN ALCOVE TO MATCH ACCENT PAINT ON BULKHEAD ABOVE.
7. START WITH FULL RUBBER FLOOR TILE.
8. WOOD VENEER GRILLE SYSTEM (WGS). REFER TO ELEVATION
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    - ETF-3 REPLACES RFT-1
    - ETF-4 REPLACES RFT-2
    - ETF-5 REPLACES RFT-5
    - ETF-6 REPLACES RFT-8
13. CERAMIC WALL TILE (CWT-1,2) ON ALL WALLS, FLOOR TO CEILING. EXTENTS AS INDICATED ON FINISH PLANS.
14. CARPET EXTENDS TO WALL UNDER COUNTERTOP.
15. CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH SCHLUTER TRIM (REFER TO GENERAL FINISH NOTES). REFER TO PLANS FOR FINISH SELECTION.
16. CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH DRF BASE. REFER TO PLANS FOR FINISH SELECTION.
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20. PAINT BULKHEAD UNDERSIDE TO MATCH SIDE WALL ACCENT COLOR AS SHOWN ON PLANS.
21. PAINT RAILING ASSEMBLY AND EXPOSED COLUMNS P-11 UP TO 8'-0".
22. SLIDING WINDOW WITH SOLID SURFACE SILL (SSM-2). REFER TO ARCH DWGS FOR DETAILS.
23. ALIGNT CARPET TILES WITH NORTH WALL.
24. TERRAZZO PRECAST TREADS AND RISERS.
25. PAINT EXPOSED COLUMNS P-11 UP TO 8'-0".

FLOOR PATTERN LEGEND

- CART-1
- CART-2
- CART-3
- CART-4
- CART-5
- DRF-1
- ECT-1
- FS
- LVT-1
- LVT-2
- RFT-1 / ETF-3
- RFT-2, 5, 8, 11
- RFT-3, 6, 9
- RFT-4, 7, 10, 13
- RFT-14 / ETF-2
- RFT-15 / ETF-1
- RTAF-1

VERIFICATION NOTE

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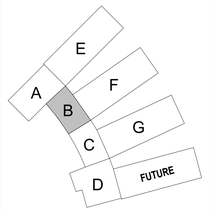
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KEY PLAN

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100% CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

SECOND FLOOR FINISH PLAN - UNIT B

IF109

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SECOND FLOOR FINISH PLAN - UNIT C

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B201	MECHANICAL ROOM	1923 SF
B234	CORRIDOR	170 SF
B235	CORRIDOR	416 SF
B236	LOBBY	246 SF
B238	SUPERINTENDENT	445 SF
C202	LOUNGE	989 SF
C203	TOUCHDOWN AREA	606 SF
C204	ADMIN. ASSISTANT	164 SF
C205	ASSISTANT SUPERINTENDENT	268 SF
C206	ASSISTANT SUPERINTENDENT	282 SF
C207	PASSAGE	138 SF
C208	HEAT PUMP CLOSET	51 SF
C209	STORAGE	103 SF
C210	SHARED CONFERENCE	406 SF
C211	CFO	353 SF
C212	BUSINESS OFFICE	152 SF
C213	BUSINESS OFFICE	231 SF
C214	CORRIDOR	236 SF
C215	BUSINESS OFFICE	156 SF
C216	LOBBY	215 SF
C217	STORAGE	102 SF
C218	BUSINESS OFFICE	153 SF
C219	BUSINESS OFFICE	154 SF
C221	CUSTODIAL	78 SF
C222	SECURE STORAGE	149 SF
C223	FUTURE OFFICE	149 SF
C224	OPERATIONS OFFICE	167 SF
C225	DIRECTOR OF OPERATIONS	275 SF
C226	OPEN OFFICE	674 SF
C227	OFFICE	152 SF
C228	FUTURE OFFICE	153 SF
C229	CHIEF TECHNOLOGY OFFICER	238 SF
C230	TECH CONFERENCE	177 SF
C231	CORRIDOR	765 SF
C233	HEAT PUMP CLOSET	51 SF
C235	MECHANICAL ROOM	1241 SF
C246	TOILET	79 SF
C247	STORAGE	121 SF
E141	STAIR	346 SF
E-2	ELEVATOR	75 SF
F201	INTERSTITIAL SPACE	2246 SF
G201	INTERSTITIAL SPACE	2246 SF

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9. FLOORING EXTENDS UNDER THE MILLWORK DESK. REFER TO FINISH PLANS FOR FLOORING MATERIAL.
10. AWAY ON WALL ABOVE. REFER TO ELEVATION.
11. PAINT UNDERSIDE OF BULKHEAD ACCENT COLOR. VARIES PER WING.
12. [ALTERNATE] INSTALL ETF-1,2,3,4,5,6 INSTEAD OF RFT IN CORRIDORS: A101, B101, C101, D129, D138.
    - ETF-1 REPLACES RFT-15
    - ETF-2 REPLACES RFT-14
    - ETF-3 REPLACES RFT-1
    - ETF-4 REPLACES RFT-2
    - ETF-5 REPLACES RFT-5
    - ETF-6 REPLACES RFT-6
13. CERAMIC WALL TILE (CWT-1,2) ON ALL WALLS, FLOOR TO CEILING. EXTENTS AS INDICATED ON FINISH PLANS.
14. CARPET EXTENDS TO WALL UNDER COUNTERTOP.
15. CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH SCHLUTER TRIM (REFER TO GENERAL FINISH NOTES). REFER TO PLANS FOR FINISH SELECTION.
16. CERAMIC WALL TILE (CWT-X) ON ALL WALLS, FLOOR TO CEILING WITH DRF BASE. REFER TO PLANS FOR FINISH SELECTION.
17. PAINT EXPOSED COLUMN P-11.
18. DIGITAL VINYL FILM (DVF-X) TO WRAP DOUBLE DOORS AND MOUNTED ON WALL. PAINT DOOR FRAMES TO MATCH ADJACENT ACCENT WALL.
19. WOOD VENEER PANELS (WVP) ON SIDE WALL(S) AND BULKHEAD. REFER TO PLANS. WALL PANEL MAY ONLY BE ON ONE WALL. REFER TO IN501 AND ARCHITECTURAL PLAN/BULKHEAD DETAILS.
20. PAINT BULKHEAD UNDERSIDE TO MATCH SIDE WALL ACCENT COLOR AS SHOWN ON PLANS.
21. PAINT RAILING ASSEMBLY AND EXPOSED COLUMNS P-11 UP TO 8'-0".
22. SLIDING WINDOW WITH SOLID SURFACE SILL (SSM-2). REFER TO ARCH DWGS FOR DETAILS.
23. ALIGNT CARPET TILES WITH NORTH WALL.
24. TERRAZZO PRECAST TREADS AND RISERS.
25. PAINT EXPOSED COLUMNS P-11 UP TO 8'-0".

FLOOR PATTERN LEGEND

- CART-1
- CART-2
- CART-3
- CART-4
- CART-5
- DRF-1
- ECT-1
- FS
- LVT-1
- LVT-2
- RFT-1 / ETF-3
- RFT-2, 5, 8, 11
- RFT-3, 6, 9
- RFT-4, 7, 10, 13
- RFT-14 / ETF-2
- RFT-15 / ETF-1
- RTAF-1

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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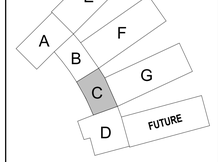
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KEY PLAN

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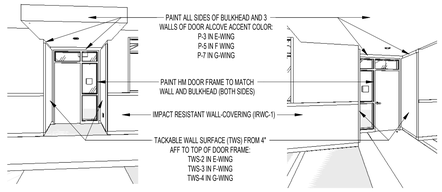
PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

SECOND FLOOR FINISH PLAN - UNIT C

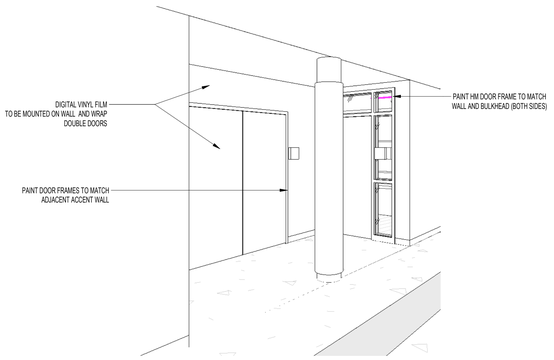
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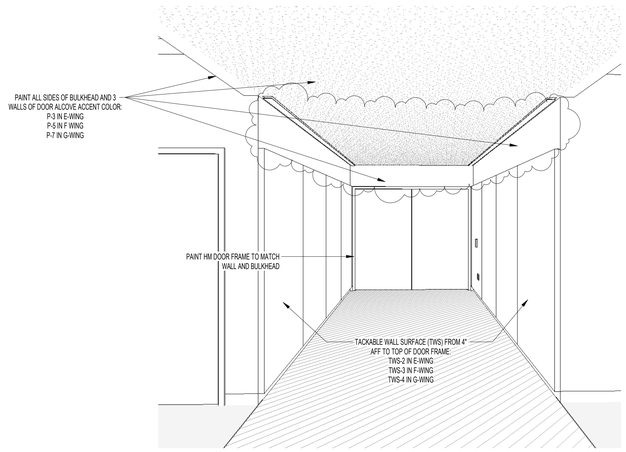


15 TYP PREK CLASSROOM ENTRY

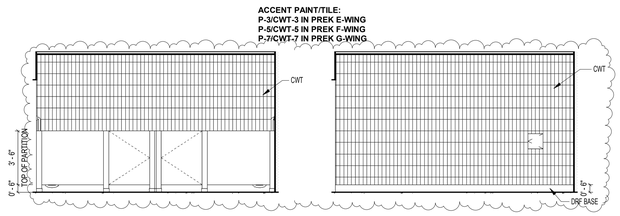
16 TYP PREK CLASSROOM DOUBLE ENTRY



12 TYP DAYCARE ENTRY



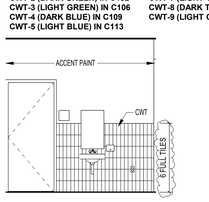
18 TYP PREK WING ENTRY



17 E103 DEVELOPMENTAL RESTROOM
1/4" = 1'-0"

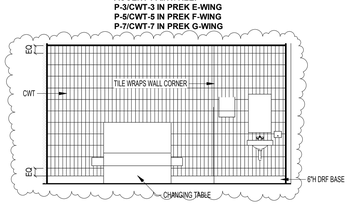
CWT-2 (DARK GREEN) IN C102
CWT-3 (LIGHT GREEN) IN C106
CWT-4 (DARK BLUE) IN C109
CWT-5 (LIGHT BLUE) IN C113

CWT-7 (LIGHT TERRACOTTA) IN B110
CWT-8 (DARK TERRACOTTA) IN B109
CWT-9 (LIGHT GOLD) IN B113

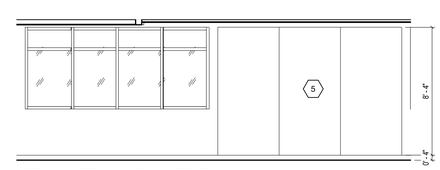


13 B106 DAYCARE WALL TILE
1/4" = 1'-0"

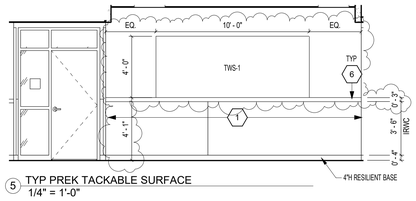
ACCENT PAINT/TILE:
P-3/CWT-3 IN PREK E-WING
P-5/CWT-5 IN PREK F-WING
P-7/CWT-7 IN PREK G-WING



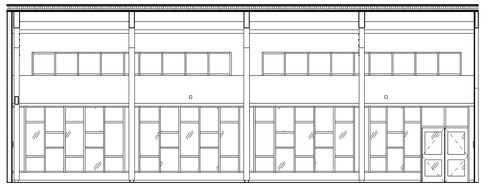
14 DEVELOPMENTAL RESTROOM - NORTH
1/4" = 1'-0"



6 TYP DAYCARE TACKABLE SURFACE
1/4" = 1'-0"

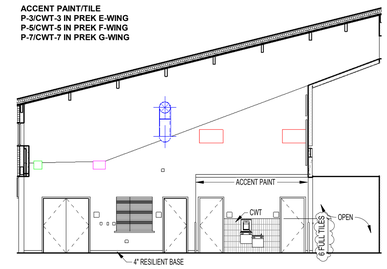


5 TYP PREK TACKABLE SURFACE
1/4" = 1'-0"



4 E118 MULTI-PURPOSE - SOUTH
1/8" = 1'-0"

ACCENT PAINT/TILE
P-3/CWT-3 IN PREK E-WING
P-5/CWT-5 IN PREK F-WING
P-7/CWT-7 IN PREK G-WING



3 E118 MULTI-PURPOSE - WEST
1/8" = 1'-0"

9 PK RESTROOM PARTITION & TILE
1/4" = 1'-0"

10 PK RESTROOM TOILET & URINAL WALL
1/4" = 1'-0"

PREK ENTRY TACKABLE WALL SURFACE
1/4" = 1'-0"

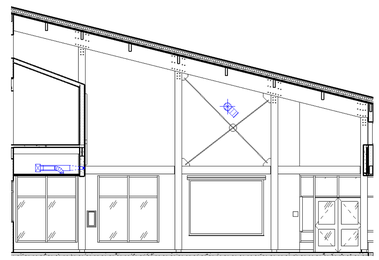
ACCENT PAINT/AR-AWT:
UNIT E - P-2
UNIT F - P-4
UNIT G - P-6



2 E118 MULTI-PURPOSE - NORTH
1/8" = 1'-0"

8 TYP PREK CORRIDOR - SOUTH
1/8" = 1'-0"

7 TYP PREK CORRIDOR - NORTH
1/8" = 1'-0"



1 E118 MULTI-PURPOSE - EAST
1/8" = 1'-0"

INTERIOR ELEVATION NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. IMPACT RESISTANT WALLCOVERING (IRWC).
2. WOOD VENEER PANELS (WVP) ON SOFFIT AND SIDE WALLS OF ENTRY ALCOVES.
   WOOD VENEER PANELS (WVP) ON SOFFIT AND SIDE WALLS OF ENTRY ALCOVES
3. PROVIDE 1/4" FRY REGLET DRYWALL REVEAL (DRM-25-25).
4. PROVIDE 1/2" FRY REGLET DRYWALL REVEAL (DRM-50-50).
5. TACKABLE WALL SURFACE (TWS-1). REFER TO PLANS FOR LENGTH. ALIGN TOP WITH ADJACENT DOOR/WINDOW FRAME.
6. 1"D(TH) WOOD TRIM WITH EASED EDGE. REFER TO DETAIL ON QE502.
7. ACCENT PAINT TO MATCH BULKHEAD PAINT.
8. PROVIDE OUTSIDE CORNER TRIM PIECE FROM SAME MANUFACTURER AS IRWC. INSTALL BETWEEN RESILIENT BASE AND WOOD TRIM.

VERIFICATION NOTE

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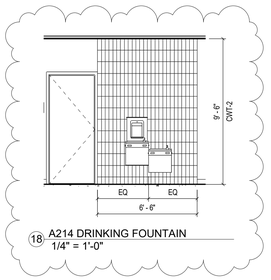
PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

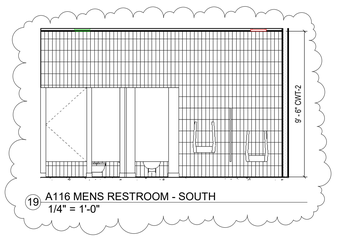
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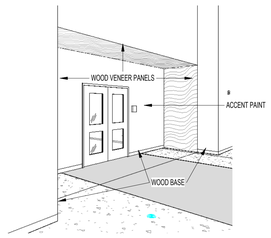
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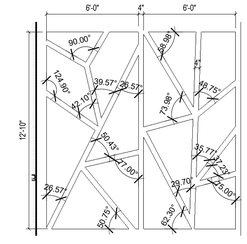
18 A214 DRINKING FOUNTAIN
1/4" = 1'-0"



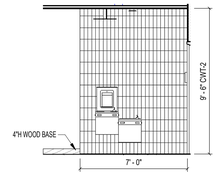
19 A116 MENS RESTROOM - SOUTH
1/4" = 1'-0"



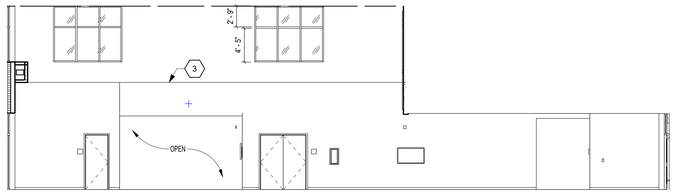
11 TYPICAL BOARDROOM ENTRY



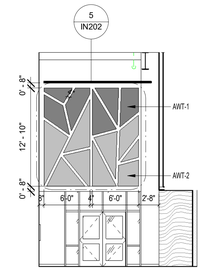
5 A129 CORRIDOR AWT
1/4" = 1'-0"



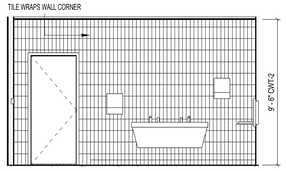
17 A130 DRINKING FOUNTAIN - EAST
1/4" = 1'-0"



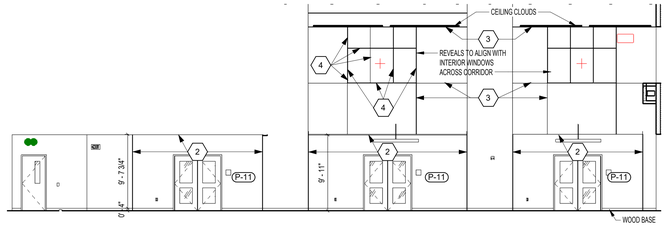
10 CORIRDOR A129 - RECEPTION SIDE
1/8" = 1'-0"



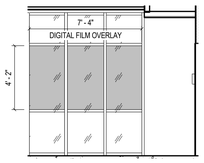
8 A129 CORRIDOR
1/8" = 1'-0"



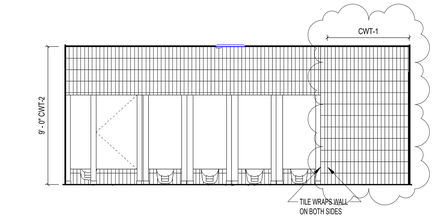
16 A116 MENS RESTROOM - NORTH
1/4" = 1'-0"



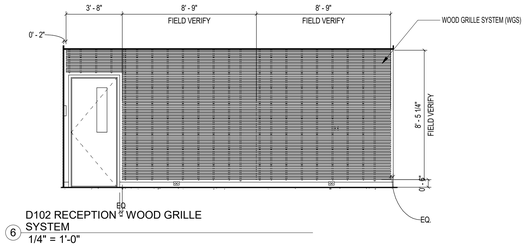
9 CORRIDOR A129 - BOARDROOM SIDE
1/8" = 1'-0"



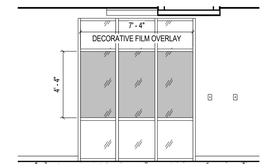
C231 CORRIDOR DECORATIVE FILM OVERLAY
1/4" = 1'-0"



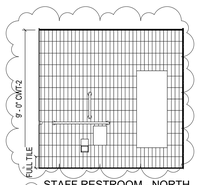
15 B232 STAFF RESTROOM - EAST
1/4" = 1'-0"



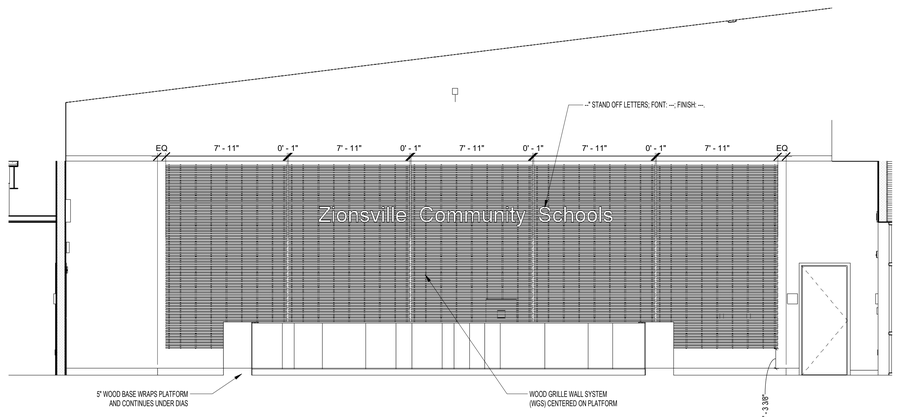
6 D102 RECEPTION WOOD GRILLE SYSTEM
1/4" = 1'-0"



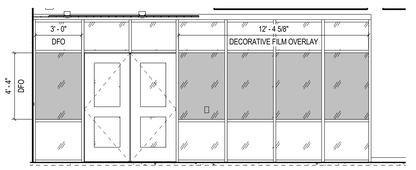
3 B227 CORRIDOR - DECORATIVE FILM OVERLAY
1/4" = 1'-0"



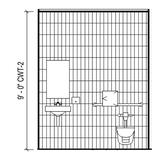
14 STAFF RESTROOM - NORTH
1/4" = 1'-0"



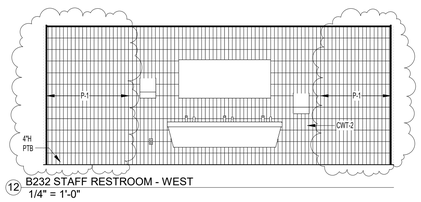
7 A124 Board Room - Wood Slat Wall
1/4" = 1'-0"



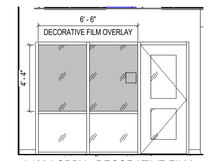
2 A202 RECEPTION - DECORATIVE FILM OVERLAY
1/4" = 1'-0"



13 STAFF TOILET - WEST WALL PATTERN
1/4" = 1'-0"



12 B232 STAFF RESTROOM - WEST
1/4" = 1'-0"



1 A108 LOBBY - DECORATIVE FILM OVERLAY
1/4" = 1'-0"

INTERIOR ELEVATION NOTES

X

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 IMPACT RESISTANT WALLCOVERING (IRWC).
2 WOOD VENEER PANELS (WVP) ON SOFFIT AND SIDE WALLS OF ENTRY ALCOVES.
WOOD VENEER PANELS (WVP) ON SOFFIT AND SIDE WALLS OF ENTRY ALCOVES
3 PROVIDE 1/4" FRY REGLET DRYWALL REVEAL (DRM-25-25).
4 PROVIDE 1/2" FRY REGLET DRYWALL REVEAL (DRM-50-50).
5 TACKABLE WALL SURFACE (TWS-1). REFER TO PLANS FOR LENGTH. ALIGN TOP WITH ADJACENT DOOR/WINDOW FRAME.
6 1"Dx3"H WOOD TRIM WITH EASED EDGE. REFER TO DETAIL ON GE502.
7 ACCENT PAINT TO MATCH BULKHEAD PAINT.
8 PROVIDE OUTSIDE CORNER TRIM PIECE FROM SAME MANUFACTURER AS IRWC. INSTALL BETWEEN RESILIENT BASE AND WOOD TRIM.

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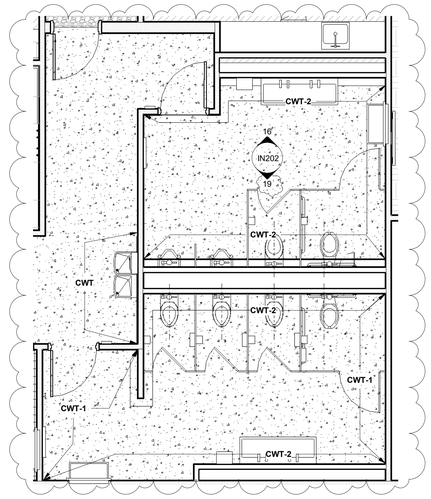
PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

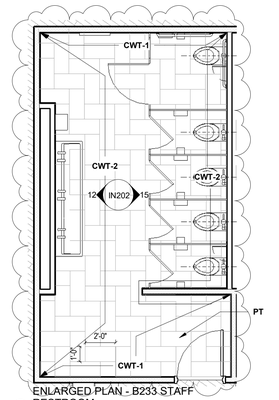
INTERIOR ELEVATIONS - ESC

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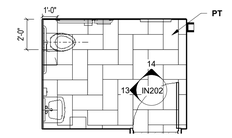
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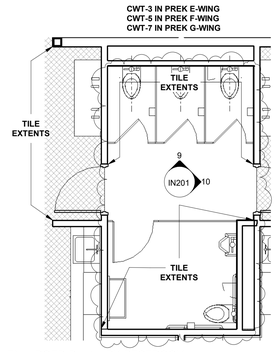
1 ENLARGED PLAN - AREA A GROUP RESTROOMS
1/4" = 1'-0"



2 ENLARGED PLAN - B233 STAFF RESTROOM
1/4" = 1'-0"



3 ENLARGED PLAN - STAFF TOILET
1/4" = 1'-0"



4 ENLARGED PLAN - PK RESTROOM
1/4" = 1'-0"

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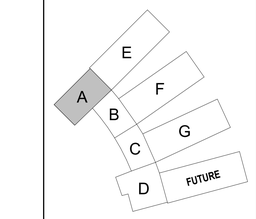
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350 E NEW YORK ST #300, INDIANAPOLIS, IN 46204



KEY PLAN

N

100% CONSTRUCTION DOCUMENTS

PAULA A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

ENLARGED PLANS

IN401

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LIST OF FINISHES

FLOOR MATERIALS

CARPET TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CART-1 (ADMIN/MAIN CORRIDOR)	INTERFACE/WW880	105364 NATURAL LOOM
CART-2 (ADMIN ENTRY/LOBBIES)	INTERFACE/WW890	105385 CHARCOAL DOBBY
CART-3 (ADMIN/PRIVATE OFC)	INTERFACE/WW870	105348 NATURAL LOOM
CART-4 (ADMIN ACCENT RUG)	INTERFACE FLOR/ MOD CAFE	CHARCOAL 21-1447-03
CART-5 (GREEN STRIPE)	INTERFACE / CUSTOM UPLOAD M1284	106297 LIGHT BLUE, ACCENT COLOR REPLACED 276064-001.
CART-6 (BLUE STRIPE)	INTERFACE / CUSTOM UPLOAD M1284	106297 LIGHT BLUE, ACCENT COLOR REPLACED W/ 276064-003.
CART-7 (TERRACOTTA STRIPE)	INTERFACE / CUSTOM UPLOAD M1284	106297 LIGHT BLUE, ACCENT COLOR REPLACED W/ 276064-004.
CART-8 (GOLD STRIPE)	INTERFACE / CUSTOM UPLOAD M1284	106297 LIGHT BLUE, ACCENT COLOR REPLACED W/ 276064-005.

1

- ALL CARPET BACKING TO HAVE A MOISTURE RESISTANT BARRIER.
- INSTALLATION METHOD TO BE ASHLAR, UNLESS OTHERWISE NOTED.
- SUBMIT DRAWINGS INDICATING DIRECTION & LAYOUT OF CARPET TILE FOR APPROVAL PRIOR TO INSTALLATION.

DECORATIVE RESINOUS FLOORING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
DRF-1	SW RESUFLOR DECO QUARTZ DB23	STORMY EVENING

ENTRANCE CARPET TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
ECT-1	TANDUS "ABRASIVE ACTION II" 02578 SHAW CONTRACT "PATH TILE" INTERFACE "ENTRY LEVEL"	TO BE SELECTED FROM MFR STDS TO BE SELECTED FROM MFR STDS TO BE SELECTED FROM MFR STDS

EPOXY TERRAZZO FLOORING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
ETF-1 (LIGHT GREY)	PER SPECIFICATIONS	33% GEORGIA WHITE #2 33% GEORGIA WHITE #1 33% GEORGIA WHITE #0 10% POOL MIX GP 653 WHITE
ETF-2 (MEDIUM GREY)	PER SPECIFICATIONS	ARCHITECT TO CUSTOM SELECT MATRIX MIX COLOR & DISTRIBUTION / % OF DOMESTIC EXPOSED MATRIX CHIP SAMPLES.
ETF-3 (DARK GREY)	PER SPECIFICATIONS	ARCHITECT TO CUSTOM SELECT MATRIX MIX COLOR & DISTRIBUTION / % OF DOMESTIC EXPOSED MATRIX CHIP SAMPLES.
ETF-4 (GREEN)	PER SPECIFICATIONS	ARCHITECT TO CUSTOM SELECT MATRIX MIX COLOR & DISTRIBUTION / % OF DOMESTIC EXPOSED MATRIX CHIP SAMPLES.
ETF-5 (BLUE)	PER SPECIFICATIONS	ARCHITECT TO CUSTOM SELECT MATRIX MIX COLOR & DISTRIBUTION / % OF DOMESTIC EXPOSED MATRIX CHIP SAMPLES.
ETF-6 (TERRACOTTA)	PER SPECIFICATIONS	ARCHITECT TO CUSTOM SELECT MATRIX MIX COLOR & DISTRIBUTION / % OF DOMESTIC EXPOSED MATRIX CHIP SAMPLES.

- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 3 CHIP COLORS/CHIP SIZES PER MATRIX COLOR TO BE SIZES #0, #1, & #2.
- COORDINATE COLOR SELECTION/VERIFICATION WITH ARCHITECT.
- MANUFACTURER TO SUBMIT ACTUAL PRODUCT SAMPLES AFTER SELECTION OF ALL TERR COLORS FOR VERIFICATION AND APPROVAL.

FLOOR SEALER

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
FS	PER SPECIFICATIONS	

FLUID APPLIED CEMENTITIOUS URETHANE FLOORING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
EUF	PER SPECIFICATIONS	TO BE SELECTED FROM MFR STDS

FLUID APPLIED EPOXY AGGREGATE FLOORING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
MEF	PER SPECIFICATIONS	TO BE SELECTED FROM MFR STDS

LUXURY VINYL TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
LVT-1	ARMSTRONG / PARALELL 12mil 18" x 18"	J5162 HAVANA BISCUIT BEIGE
LVT-2	ARMSTRONG / PARALELL 12mil 18" x 18"	J5161 HAVANA HEATHER

PORCELAIN TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PT	CROSSVILLE / READY TO WEAR 12X24	AV317 FLANNEL SUIT

RESILIENT TREADS & RISERS/ RESILIENT STAIR ACCESSORIES

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RTR/RSA-1	NORA/ GRANO/ T 5049	5304 BLACK PEPPER

- BLACK VISUALLY IMPAIRED CONTRASTING STRIP ON TREADS TO HAVE A SMOOTH, NON-GRIT FINISH.

RUBBER FLOOR TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RFT-1 (GREY - DARK)	NORAMENT / GRANO	5304 BLACK PEPPER
RFT-2 (GREEN DARK)	NORAMENT / SATURA	5275 LEO
RFT-3 (GREEN MED)	NORAMENT / SATURA	5189 VIRGO
RFT-4 (GREEN LIGHT)	NORAMENT / SATURA	5270 TUCANA
RFT-5 (BLUE DARK)	NORAMENT / SATURA	5273 DORADO
RFT-6 (BLUE MED)	NORAMENT / GRANO	5319 SPIKENARD
RFT-7 (BLUE LIGHT)	NORAMENT / SATURA	5122 EARTH
RFT-8 (TERRACOTTA DARK)	NORAMENT / SATURA	5276 PHOENIX
RFT-9 (TERRACOTTA MED)	NORAMENT / SATURA	5271 ARIES
RFT-10 (TERRACOTTA LIGHT)	NORAMENT / SATURA	5274 APUS
RFT-11 (GOLD DARK)	NORAMENT / GRANO	5330 CASSIA
~~RFT-12 (GOLD MED)~~	~~NORAMENT / SATURA~~	~~5272 CARINA~~ FOR FUTURE WING ONLY
RFT-13 (GOLD LIGHT)	NORAMENT / GRANO	5329 BERGAMOT
RFT-14 (GREY - MED)	NORAMENT / GRANO	5306 CAMPHOR
RFT-15 (GREY - LIGHT)	NORAMENT / GRANO	5305 AGAR

RUBBER TILE ATHLETIC FLOORING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RTAF-1	JOHNSONITE INERTIA HAMMERED MICROTONE INRH	RAINSTORM LB9

TERRAZZO TREADS (PRECAST)

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
TERR	PER SPECIFICATION	MATCH ETF-1

BASE MATERIALS

RESILIENT BASE

COVE BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RB	JOHNSONITE 4" COVE	20 CHARCOAL WG

DECORATIVE RESINOUS BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
DRF	SW RESUFLOR DECO QUARTZ DB23	STORMY EVENING

1

WOOD BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
WB	TYPE: NOMINAL 1"X4" MAPLE WOOD BASE	STAINED TO MATCH DOORS

WALL FINISHES

ABUSE RESISTANT - ACOUSTICAL WALL TILES

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
AR-AWT-1 (DARK GREEN)	ARMSTRONG / TECTUM / 2" THICK	MATCH P-2
AR-AWT-2 (DARK BLUE)	ARMSTRONG / TECTUM / 2" THICK	MATCH P-4
AR-AWT-3 (DARK TERRACOTTA)	ARMSTRONG / TECTUM / 2" THICK	MATCH P-6

ACOUSTIC WALL TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
AWT-1 (DARK GREEN)	DESIGNTEX / DOVETAIL 8571 / 2" THICK	TO BE SELECTED FROM MFR STDS
AWT-2 (LIGHT GREEN)	DESIGNTEX / DOVETAIL 8571 / 2" THICK	TO BE SELECTED FROM MFR STDS

CERAMIC WALL TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CWT-1 (ADMIN)	PLATFORM SURFACES / COLORAZZO	AVORIO / 3"x9"
CWT-2 (GREEN DARK)	PLATFORM SURFACES / COLORAZZO	SALVIA / 3"x9"
CWT-3 (GREEN LIGHT)	PLATFORM SURFACES / STRIPES	VERDE MENTA / 3"x12"
CWT-4 (BLUE DARK)	PLATFORM SURFACES / STRIPES	PRUSSIA GLOSSY / 3"x12"
CWT-5 (BLUE LIGHT)	PLATFORM SURFACES / BRICK ENVY	SERENA / 3"x9"
CWT-6 (TERRACOTTA DARK)	PLATFORM SURFACES / COLORAZZO	ROSSO CURORE / 3"x9"
CWT-7 (TERRACOTTA LIGHT)	PLATFORM SURFACES / BRICK ENVY	AMSTERDAM / 3"x9"
CWT-8 (GOLD DARK)	PLATFORM SURFACES / BRICK ENVY	DIJON / 3"x9"
CWT-9 (GOLD LIGHT)	PLATFORM SURFACES / BRICK ENVY	GOLDEN COAST / 3"x9"

DECORATIVE FILM OVERLAY

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
DFO	3M / CRYSTAL GLASS FINISH	FROSTED CRYSTAL, 7725SE-324

1

DIGITAL VINYL WALL COVERING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
DVWC-5 (ADMIN STAIRS)	MDC/ LEVEL / KOROSEAL	CUSTOM IMAGE BY ARCHITECT
DVWC-6 (DAYCARE RECEPTION)	MDC/ LEVEL / KOROSEAL	CUSTOM IMAGE BY ARCHITECT

DIGITAL VINYL FILM

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
DVF-1 (DAYCARE 1)	3M	CUSTOM IMAGE BY ARCHITECT
DVF-2 (DAYCARE 2)	3M	CUSTOM IMAGE BY ARCHITECT
DVF-3 (DAYCARE 3)	3M	CUSTOM IMAGE BY ARCHITECT
DVF-4 (DAYCARE 4)	3M	CUSTOM IMAGE BY ARCHITECT

1

IMPACT RESISTANT WALL COVERING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
IRWC-1	CS ACROVYN BY DESIGN / WAVE WEAVE MINI	OYSTER 20047

PAINT

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
P-1 (FIELD)	SHERWIN WILLIAMS	SW 7009 PEARLY WHITE
P-2 (DARK GREEN)	SHERWIN WILLIAMS	SW 6215 ROCKY RIVER
P-3 (LIGHT GREEN)	SHERWIN WILLIAMS	SW 2812 ROOKWOOD JADE
P-4 (DARK BLUE)	BENJAMIN MOORE	1679 BEDFORD BLUE
P-5 (LIGHT BLUE)	BENJAMIN MOORE	1677 COLONIAL BLUE
P-6 (DARK TERRACOTTA)	SHERWIN WILLIAMS	SW 0008 CAJUN RED
P-7 (LIGHT TERRACOTTA)	SHERWIN WILLIAMS	SW 6354 ARMAGNAC
P-8 (DARK GOLD)	SHERWIN WILLIAMS	SW 6683 BEE
P-9 (LIGHT GOLD)	BENJAMIN MOORE	298 BROADWAY LIGHTS
P-11 (CHARCOAL GRAY)	SHERWIN WILLIAMS	SW 7674 PEPPERCORN
P-12 (CEILINGS)	SHERWIN WILLIAMS	SW7005 PURE WHITE

VINYL WALL COVERING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
VWC-1 (ADMIN)	MDC INTERIOR SOLUTIONS / CLAYTON	BREEZEWAY DGC1301

WOOD GRILLE WALL SYSTEM

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
WGS	ARMSTRONG/ WOODWORKS GRILLE FORTE SLAT WIDTH - 3/4" / SLAT HEIGHT - 2-1/4" SLATS PER PANEL - VARIES (FIELD VERIFY) SPACE BETWEEN SLATS - 3/4"	PLAIN SLICED WHITE MAPLE VENEER (NWM)

WOOD VENEER WALL PANELS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
WVP	REFER TO SPECS 1	PLAIN SLICED WHITE MAPLE

* REFER TO DETAIL ON SHEET

CEILING FINISHES

ACOUSTICAL CEILING TILES

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
ACT-1 (FIELD)	ARMSTRONG / SCHOOL ZONE FINE FISSURED 1713	WHITE / 2'X2'
ACT-2 (RESTROOMS)	ARMSTRONG / TUNDRA #301	WHITE / 2'X2'
ACT-3 (STORAGE)	ARMSTRTONG / FINE FISSURED #1726	WHITE / 2'X2'
ACT-4 (KITCHEN)	ARMSTRONG / CLEAN ROOM VL #868	WHITE / 2'X2'
ACT-5 (OFFICES)	ARMSTRONG / OPTIMA #3354	WHITE / 2'X2'

SOUND-ABSORBING CEILING UNITS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
SAB	ARMSTRONG / SOUNDSCAPE BLADES	TBD/ 16"HX46L

LINEAR METAL CEILING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
LMC	ARMSTRONG / METALWORKS LINEAR CLASSIC 6"W PERFORATED PLANKS	EFFECTS CHERRY FXCH

1

MISCELLANEOUS & EQUIPMENT FINISHES

CORNER GUARDS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CG-1 (ADMIN) 1	CS ACROVYN / LG SERIES / 1"LEG/ 4'H	CLEAR
CG-2	CS ACROVYN / SSM-20AN / 2"LEG/ 4'H	TO MATCH PAINT COLOR (P-2)
CG-3	CS ACROVYN / SSM-20AN / 2"LEG/ 4'H	TO MATCH PAINT COLOR (P-3)
CG-4	CS ACROVYN / SSM-20AN / 2"LEG/ 4'H	TO MATCH PAINT COLOR (P-4)
CG-5	CS ACROVYN / SSM-20AN / 2"LEG/ 4'H	TO MATCH PAINT COLOR (P-5)
CG-6	CS ACROVYN / SSM-20AN / 2"LEG/ 4'H	TO MATCH PAINT COLOR (P-6)
CG-7	CS ACROVYN / SSM-20AN / 2"LEG/ 4'H	TO MATCH PAINT COLOR (P-7)
CG-8	CS ACROVYN / SSM-20AN / 2"LEG/ 4'H	TO MATCH PAINT COLOR (P-8)
CG-9	CS ACROVYN / SSM-20AN / 2"LEG/ 4'H	TO MATCH PAINT COLOR (P-9)

1

CUBICLE CURTAIN

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CC-1	MAHARAM / SING 511490	TBD

1

INTERIOR WOOD DOORS/ INTERIOR WOOD TRIM

- WOOD DOORS: VT INDUSTRIES/ PL SL WHITE MAPLE/ FINISH: GARDALL 01 NATURAL
- PROVIDE WOOD STAIN SAMPLES FOR VERIFICATION.
- WOOD TRIM/BASE: MATCH WOOD DOORS

INTERIOR WOOD VENEER COLUMN COVERS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
WCC	ARMSTRONG/ CUSTOM WOODWORKS COLUMNS COVERS	TBD (LIGHT MAPLE VENEER)

MARKERBOARD

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
MB	PER SPECIFICATIONS	WHITE

MOTOR OPERATED / ELECTRIC ROLLER WINDOW SHADES

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
ERWS-1 (MP ROOM)	PER SPECIFICATIONS 5% OPENNESS	TBD
ERWS-2 (BOARD ROOM)	PER SPECIFICATIONS 1% OPENNESS	TBD

OPERABLE PANEL PARTITION

OP-1 (BOARDROOM)	REFER TO SPECIFICATIONS	

- ARCHITECT TO SELECT FROM MANUFACTURER'S FULL RANGE OF STANDARD AND DESIGNER FINISHES FOR VINYL WALL COVERINGS.

PLASTIC LAMINATE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PL-1 (CASEWORK)	FORMICA	FUSION MAPLE 7909-60

ROLLER WINDOW SHADES

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RWS-1 (CLASSROOMS)	PER SPECIFICATIONS 1% OPENNESS	TBD
RWS-2 (OFFICES)	PER SPECIFICATIONS 5% OPENNESS	TBD

SOLID SURFACE MATERIAL

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
SSM-1 (GEN COUNTERTOPS)	STARON / TEMPEST	FP100 PEAK
SSM-2 (VERTICAL WHITE)	FORMICA	408 LUNE BRITE WHITE
SSM-3 (VERTICAL GREY)	FORMICA	775 LUNA STORM

TACKBOARD / TACKABLE WALL SURFACE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
TB	FORBO / BULLETIN BOARD	TO BE SELECTED FROM MFR STDS
TWS-1 (NEUTRAL)	CARNEGIE XOREL / STRIE 6423	817
TWS-2 (GREEN DARK)	CARNEGIE XOREL / METEOR 6427	2019
TWS-3 (GREEN LIGHT)	CARNEGIE XOREL / METEOR 6427	2019
TWS-4 (BLUE DARK)	CARNEGIE XOREL / METEOR 6427	2031
TWS-5 (BLUE LIGHT)	CARNEGIE XOREL / METEOR 6427	2025
TWS-6 (TERRACOTTA DARK)	CARNEGIE XOREL / METEOR 6427	726
TWS-7 (TERRACOTTA LIGHT)	CARNEGIE XOREL / METEOR 6427	718

TOILET PARTITIONS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
TP-1	PER SPECIFICATIONS	TO BE SELECTED FROM MFR STDS

WASH FOUNTAINS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
WF-1 (RESTROOMS)	BRADLEY VERGE LVRD2	SOLID SURFACE: TBD / SURROUND: TBD
WF-2 (PREK CLASSROOMS)	BRADLEY VERGE LVRD3	SOLID SURFACE: TBD / SURROUND: TBD

WOOD VENEER (MILLWORK)

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
MATCH SPECIES OF WOOD DOORS	REFER TO SPECS	

PAINT TYPE GENERAL NOTES

A. UNDER SECTION 099123 - INTERIOR PAINTING, PAINT EXPOSED PIPES, DUCTWORK, BREACHING, CONDUIT, INSULATED PIPES, CONDUIT HANGERS, SUPPORTS, BRACING, ETC., WHICH OCCURS IN SPACES DESIGNATED TO BE PAINTED IN PART OR WHOLE.
B. PAINTING AND FINISHING OF EXTERIOR SURFACES AS DESIGNATED. DETAILS SHALL BE UNDER THE WORK SECTION 0991113 - EXTERIOR PAINTING.
C. ALL GYPSUM BOARD WALLS SHALL BE PAINTED WITH INTERIOR PAINT TYPE #9.23 (SEMI-GLOSS) UNLESS OTHERWISE INDICATED.
D. ALL GYPSUM BOARD CEILINGS AND SOFFITS SHALL BE PAINTED WITH PAINT TYPE #9.21 (FLAT) UNLESS OTHERWISE INDICATED.
E. PAINT ALL NON-INTEGRALLY COLORED CMU WALLS WITH INTERIOR PAINT TYPE #4.14 (SEMI-GLOSS), UNLESS OTHERWISE INDICATED.
F. IN THE FOLLOWING ROOMS PAINT WITH PAINT CODE #4.224 (EPOXY-SEMI-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS. **B102, B108, B112, B115, C105, C108, C112, C115, D122, D126, D136, D137, D128, D131, D132, D133, D134, D135, D136, D137, E103, E113, E116, E117, E130, E139, F103, F108, F113, F116, F117, F130, G103, G108, G113, G116, G117, G130, A201, B201, C235**
G. ALL EXPOSED STEEL COLUMNS SHALL BE PAINTED WITH PAINT CODE #5.221 (EPOXY-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.
H. ALL FERROUS METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.12.
I. ALL GALVANIZED METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.32.
J. ALL EXPOSED STEEL (FERROUS) STRUCTURE SHALL BE PAINTED INTERIOR PAINT TYPE #5.11.
K. ALL EXPOSED GALVANIZED-METAL STRUCTURE SHALL BE PAINTED INTERIOR PAINT TYPE #5.31.
L. ALL ABUSE RESISTANT ACOUSTICAL WALL PANELS (AR-AWT) SHALL BE PAINTED WITH INTERIOR PAINT CODE #11.0.
M. ALL WALLS ARE TO RECEIVE A SEMI-GLOSS FINISH AND ALL CEILINGS/BULKHEADS ARE TO RECEIVE A FLAT FINISH.

PAINT COLOR GENERAL NOTES

A. ALL INTERIOR WALLS SHALL BE PAINTED P-1, UNLESS OTHERWISE INDICATED ON FINISH PLANS OR INTERIOR ELEVATIONS.
B. PAINT ALL EXPOSED STEEL ON STAIRS, RAILS, AND STRINGERS P-11.
C. PAINT ALL GWB SOFFITS P-12 UNLESS OTHERWISE NOTED ON FINISH PLANS OR INTERIOR ELEVATIONS.
D. PAINT ALL SIDES (HORIZ. AND VERT.) OF SOFFIT INDICATED COLOR, UNLESS OTHERWISE NOTED.
E. PAINT ALL PAINTED EXPOSED CEILINGS P-11 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.
F. ALL INTERIOR HOLLOW METAL FRAMES AND DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT WALL SURFACE UNLESS OTHERWISE NOTED.
G. ALL EXPOSED INTERIOR STEEL COLUMNS SHALL BE PAINTED P-11 UNLESS OTHERWISE INDICATED ON INTERIOR ELEVATIONS OR FINISH PLANS.
H. STAIN ALL WOOD TRIM/ RAILS/ DOORS/ ETC. TO MATCH PLASTIC LAMINATE PL-1.

EQUIPMENT MATERIAL & FINISH GENERAL NOTES

A. COLOR SELECTION OF ALL FINISHES FOR ARCHITECTURAL WOODWORK/CUSTOM CASEWORK ITEMS ARE NOTED ON CASEWORK ELEVATIONS AND DETAIL DRAWINGS.
B. EDUCATION CASEWORK FINISHES ARE AS FOLLOWS (UNLESS OTHERWISE NOTED):
- CASEWORK CASEWORK TO BE PL-1, UNLESS OTHERWISE NOTED.
- PLASTIC LAMINATE SURFACE AT BOOKCASES (PL-1) WITH 3MM EDGES TO MATCH TOP.
- INTERIOR MELAMINE TO BE WHITE.
- HANDLES TO BE SILVER METALLIC POWDERCOAT.
- HINGES TO BE SILVER METALLIC POWDERCOAT.
- GROMMETS TO BE SELECTED.
- SOLID SURFACE COUNTERTOPS ARE TO BE SSM-1, UNLESS OTHERWISE NOTED.

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ARCHITECT

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100% CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

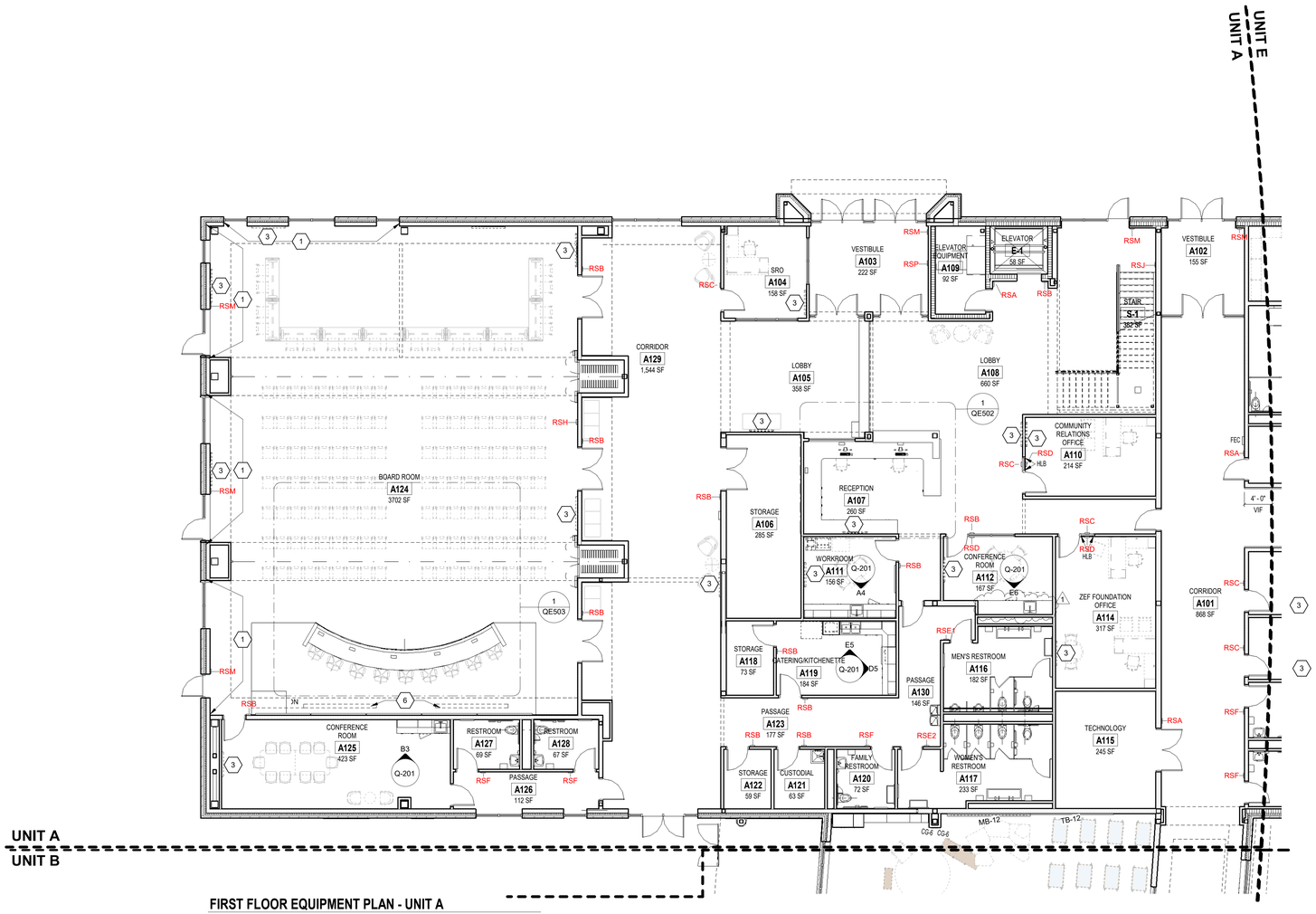
PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

LIST OF FINISHES

IN601

Autodesk Docs://Zionsville ELC/2023_EXPT_224033.00.rvt
7/7/2025 1:14:24 PM



FIRST FLOOR EQUIPMENT PLAN - UNIT A

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

EQUIPMENT GENERAL NOTES

A. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.
B. HIDDEN LINES (- - - -) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES (- - - -) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).
C. (TB) INDICATES 4' HIGH TACK BOARD LENGTH AS INDICATED. DISPLAY BOARDS TO BE MOUNTED AT 3'-0" IN ALL ADMIN AREAS, AND 2'-0" IN CLASSROOMS U.N.O.
D. (MB) INDICATES 4' HIGH TACK BOARD LENGTH AS INDICATED. DISPLAY BOARDS TO BE MOUNTED AT 3'-0" IN ALL ADMIN AREAS, AND 2'-0" IN CLASSROOMS U.N.O.
E. (TWS) INDICATES TACKABLE WALL SURFACE. FIELD VERIFY OUTLET AND LIGHT SWITCH LOCATIONS; TRIM TWS ACCORDINGLY.
F. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.
G. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.
H. ALL EXPOSED ENDS AND BACKS OF CASEWORK SHALL BE FINISHED.
I. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING/ELECTRICAL LINES.
J. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES, AND WALLS.
K. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH THE TOP AT 7'-0" AFF UNLESS OTHERWISE NOTED.
L. (RWS) INDICATES ROLLER WINDOW SHADE.
M. (ERWS) INDICATED MOTORIZED ROLLER WINDOW SHADES.
N. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.
O. (HLB) REFERS TO HORIZONTAL LOUVER BLINDS.
P. (CG) INDICATES CORNER GUARD, REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND I-12F LIST OF FINISHES FOR COLOR SELECTIONS.
Q. PROVIDE CONCEALED COUNTERTOP SUPPORT BRACKETS AT ALL COUNTERS, MILLWORK DESKS. BASIS OF DESIGN: RAKKS CONCEALED EH COUNTERTOP SUPPORT BRACKET OR EQUAL. (EH-XXXXFM)
R. (RSX) INDICATES WALL MOUNTED SIGNAGE. REFER TO QG501.

EQUIPMENT NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 MOTORIZED ROLLER WINDOW SHADES (ERWS-2) INSTALLED AT UPPER & LOWER WINDOWS.
2 MOTORIZED ROLLER WINDOW SHADES (ERWS-1) INSTALLED AT LOWER WINDOWS.
3 WALL MOUNTED MONITOR. BY OWNER.
4 CUBICLE CURTAINS AND TRACK, REFER TO QE502 FOR TRACK DETAIL.
5 SOLID SURFACE (SSM-1) COUNTERTOP AT 34"H. NO BACKSPLASH.
6 RECESSED CEILING MOUNTED PROJECTION SCREENS. REFER TO TECHNOLOGY DRAWINGS.
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VERIFICATION NOTE

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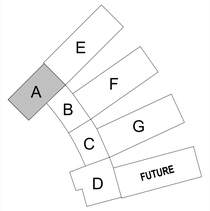
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KEY PLAN

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PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

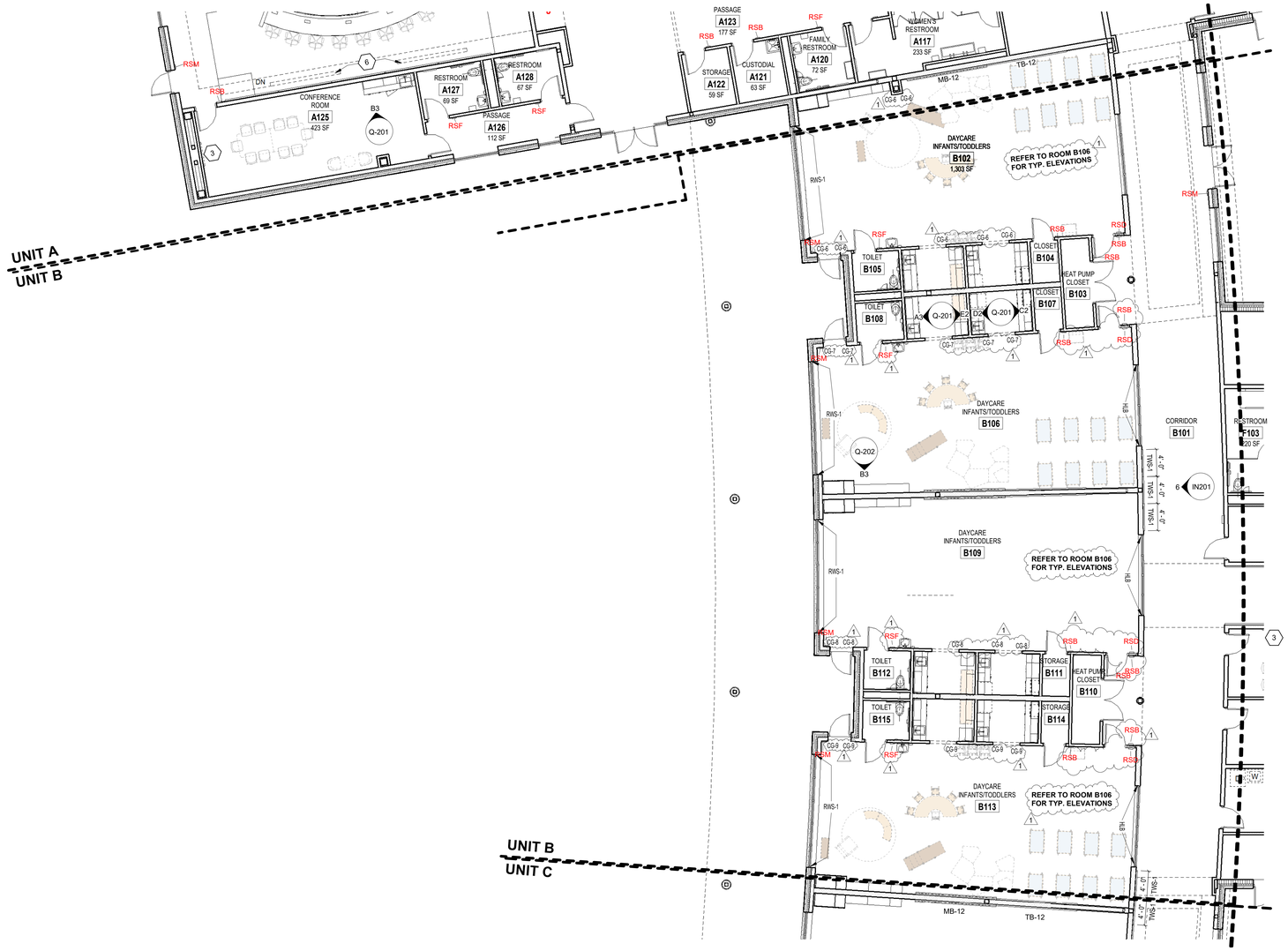
PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR EQUIPMENT PLAN - UNIT A

Q-101

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FIRST FLOOR EQUIPMENT PLAN - UNIT B

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

EQUIPMENT GENERAL NOTES

A. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.
B. HIDDEN LINES (- - - -) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES (- - - -) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).
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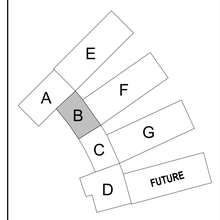
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KEY PLAN

100% CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10900161 STATE OF INDIANA ARCHITECT

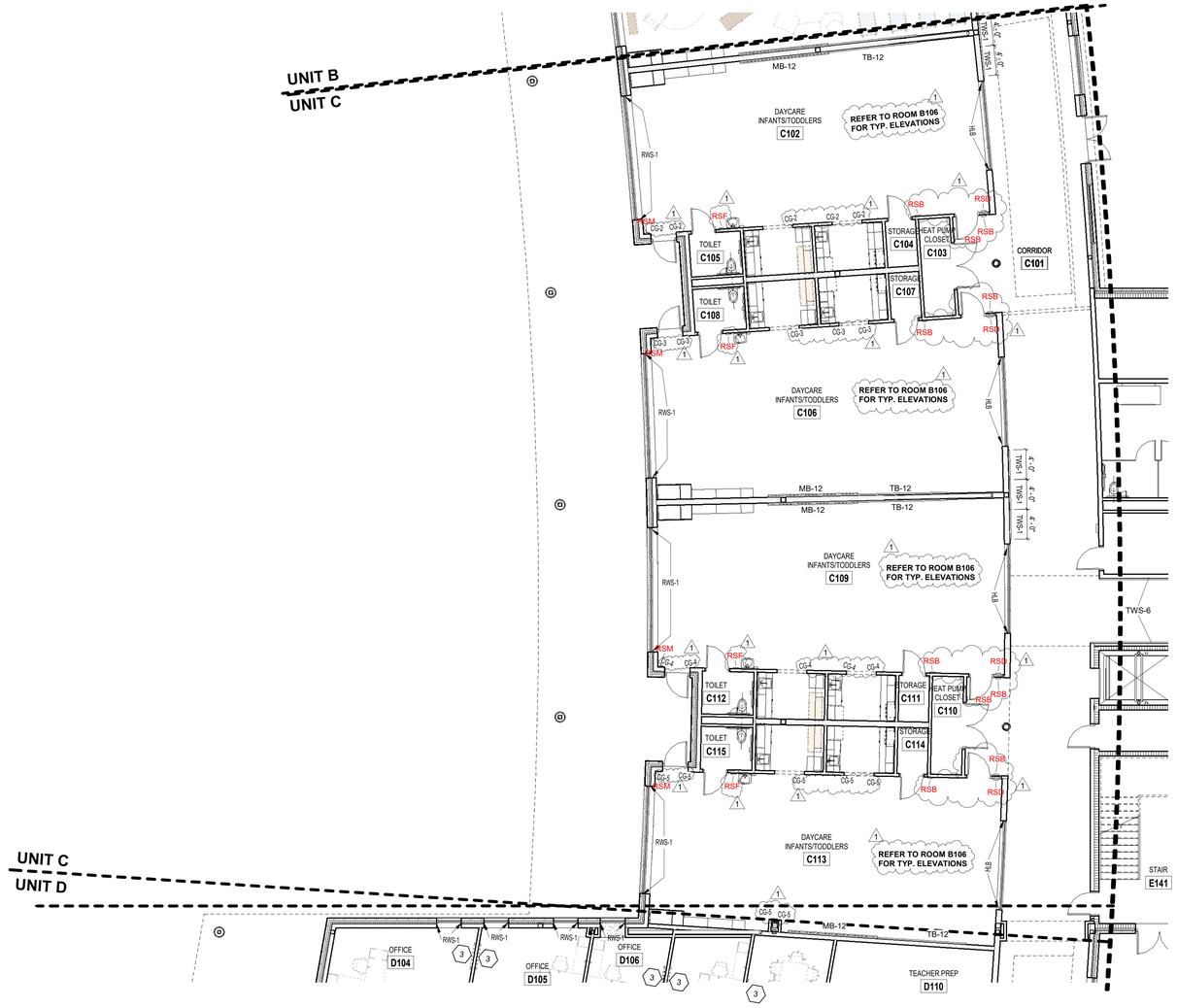
PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR EQUIPMENT PLAN - UNIT B

Q-102

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FIRST FLOOR EQUIPMENT PLAN - UNIT C

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

EQUIPMENT GENERAL NOTES

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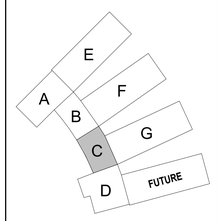
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KEY PLAN

N

100% CONSTRUCTION DOCUMENTS

PAULA A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR EQUIPMENT PLAN - UNIT C

Q-103

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FIRST FLOOR EQUIPMENT PLAN - UNIT D

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

EQUIPMENT GENERAL NOTES

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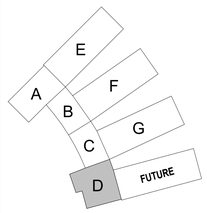
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KEY PLAN

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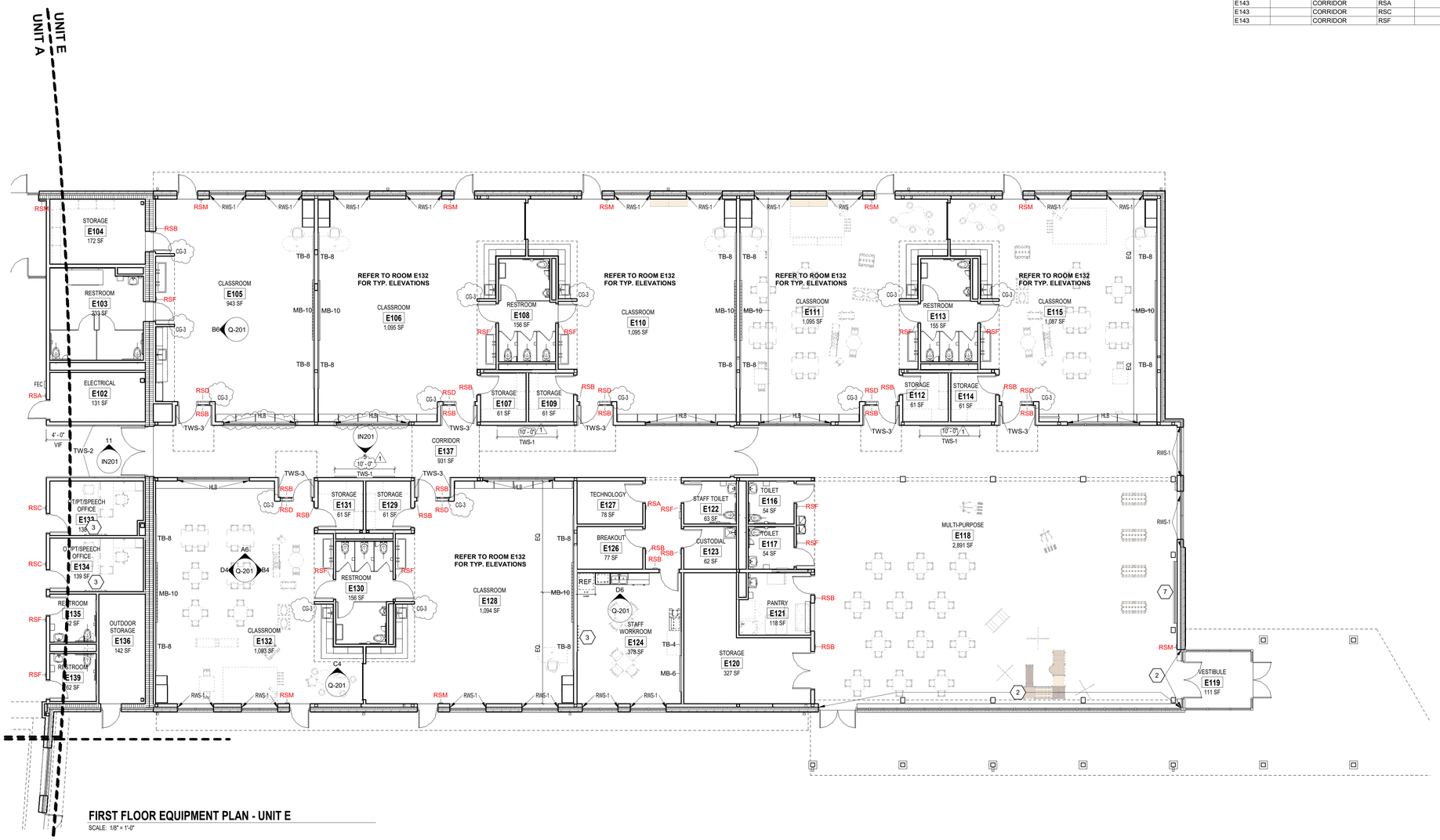
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REV. NO.	DESCRIPTION	DATE
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FIRST FLOOR EQUIPMENT PLAN - UNIT D

Q-104

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FIRST FLOOR EQUIPMENT PLAN - UNIT E

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

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SIGNAGE SCHEDULE - UNIT E - LEVEL 1

ROOM NO.	OWNER NO.	ROOM NAME	SIGN TYPE	SIGN DESIGNATION
E1		ELEVATOR	RSB	
E103		RESTROOM	RSF	
E104		STORAGE	RSB	
E105		CLASSROOM	RSB	
E105		CLASSROOM	RSD	
E105		CLASSROOM	RSM	
E106		CLASSROOM	RSB	
E106		CLASSROOM	RSD	
E106		CLASSROOM	RSF	
E106		CLASSROOM	RSM	
E109		STORAGE	RSB	
E110		CLASSROOM	RSB	
E110		CLASSROOM	RSD	
E110		CLASSROOM	RSF	
E110		CLASSROOM	RSM	
E111		CLASSROOM	RSB	
E111		CLASSROOM	RSD	
E111		CLASSROOM	RSF	
E111		CLASSROOM	RSM	
E114		STORAGE	RSB	
E115		CLASSROOM	RSB	
E115		CLASSROOM	RSD	
E115		CLASSROOM	RSF	
E115		CLASSROOM	RSM	
E116		TOILET	RSF	
E117		TOILET	RSF	
E118		MULTI-PURPOSE	RSM	
E120		STORAGE	RSB	
E121		PANTRY	RSB	
E122		STAFF TOILET	RSF	
E123		CUSTODIAL	RSB	
E126		BREAKOUT	RSB	
E127		TECHNOLOGY	RSA	
E128		CLASSROOM	RSB	
E128		CLASSROOM	RSD	
E128		CLASSROOM	RSF	
E128		CLASSROOM	RSM	
E129		STORAGE	RSB	
E132		CLASSROOM	RSB	
E132		CLASSROOM	RSD	
E132		CLASSROOM	RSF	
E132		CLASSROOM	RSM	
E143		CORRIDOR	RSA	
E143		CORRIDOR	RSC	
E143		CORRIDOR	RSF	

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K. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH THE TOP AT 7'-0" AFF UNLESS OTHERWISE NOTED.
L. (RWS) INDICATES ROLLER WINDOW SHADE.
M. (ERWS) INDICATED MOTORIZED ROLLER WINDOW SHADES.
N. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.
O. (HLB) REFERS TO HORIZONTAL LOUVER BLINDS.
P. (CG) INDICATES CORNER GUARD; REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND I-12F LIST OF FINISHES FOR COLOR SELECTIONS.
Q. PROVIDE CONCEALED COUNTERTOP SUPPORT BRACKETS AT ALL COUNTERS. MILLWORK DESKS. BASIS OF DESIGN: RAKKS CONCEALED EH COUNTERTOP SUPPORT BRACKET OR EQUAL (EH-XXXXFM).
R. (RSX) INDICATES WALL MOUNTED SIGNAGE. REFER TO QG501.

EQUIPMENT NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 MOTORIZED ROLLER WINDOW SHADES (ERWS-2) INSTALLED AT UPPER & LOWER WINDOWS.
2 MOTORIZED ROLLER WINDOW SHADES (ERWS-1) INSTALLED AT LOWER WINDOWS.
3 WALL MOUNTED MONITOR. BY OWNER.
4 CUBICLE CURTAINS AND TRACK, REFER TO QE502 FOR TRACK DETAIL.
5 SOLID SURFACE (SSM-1) COUNTERTOP AT 34"H. NO BACKSPLASH.
6 RECESSED CEILING MOUNTED PROJECTION SCREENS. REFER TO TECHNOLOGY DRAWINGS.
7 WALL MOUNTED PROJECTION SCREEN. REFER TO TECHNOLOGY DRAWINGS.
8 REFER TO FOOD SERVICE EQUIPMENT DRAWINGS.

VERIFICATION NOTE

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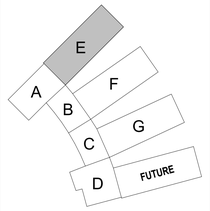
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KEY PLAN

N

100% CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

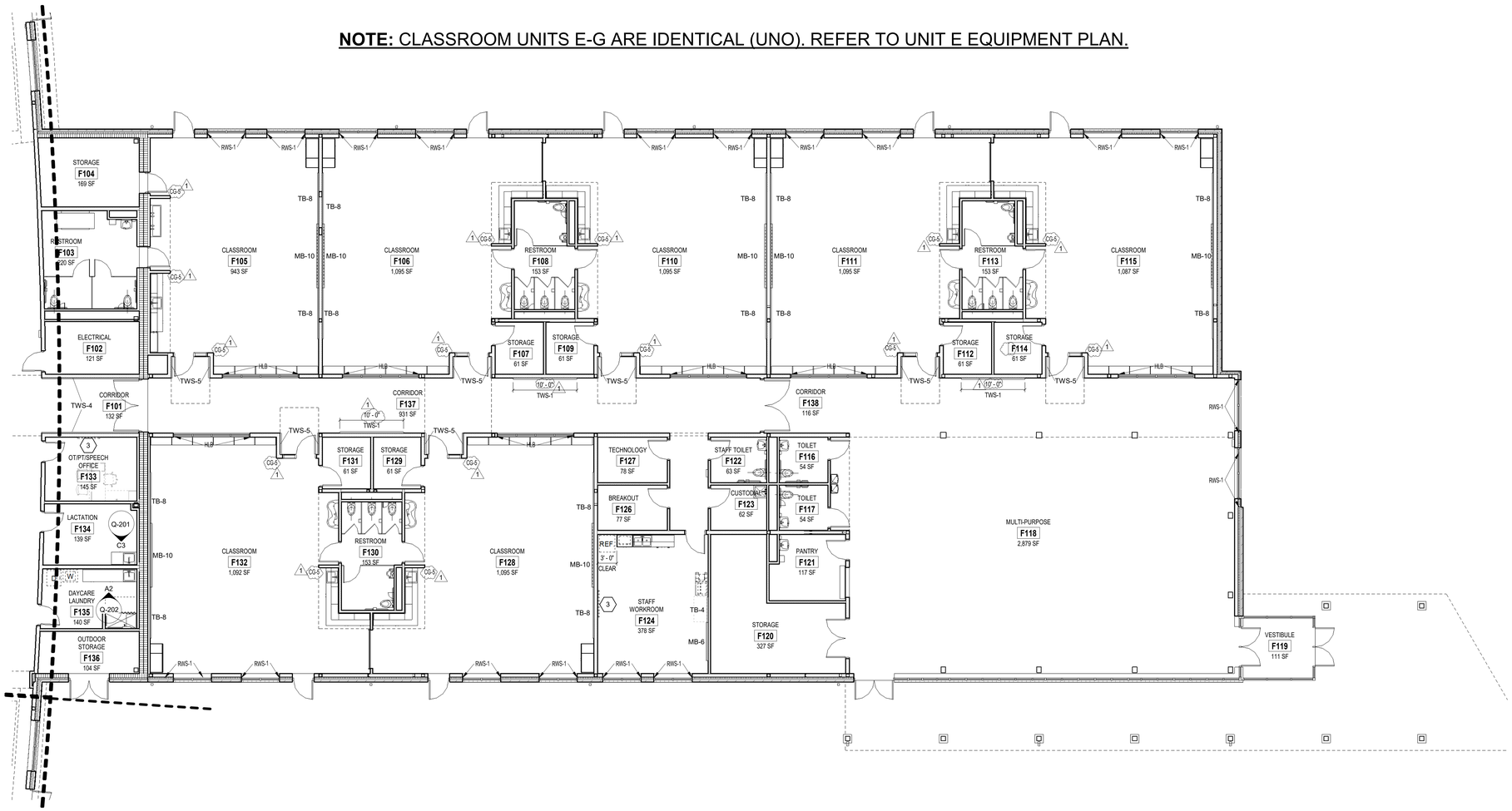
PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR EQUIPMENT PLAN - UNIT E

Q-105

NOTE: CLASSROOM UNITS E-G ARE IDENTICAL (UNO). REFER TO UNIT E EQUIPMENT PLAN.



FIRST FLOOR EQUIPMENT PLAN - UNIT F

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

EQUIPMENT GENERAL NOTES

A. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.
B. HIDDEN LINES (- - - -) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES (- - - -) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).
C. (TB) INDICATES **4' HIGH** TACK BOARD LENGTH AS INDICATED. DISPLAY BOARDS TO BE MOUNTED AT 3'-0" IN ALL ADMIN AREAS, AND 2'-0" IN CLASSROOMS U.N.O.
D. (MB) INDICATES **4' HIGH** TACK BOARD LENGTH AS INDICATED. DISPLAY BOARDS TO BE MOUNTED AT 3'-0" IN ALL ADMIN AREAS, AND 2'-0" IN CLASSROOMS U.N.O.
E. (TWS) INDICATES TACKABLE WALL SURFACE. FIELD VERIFY OUTLET AND LIGHT SWITCH LOCATIONS; TRIM TWS ACCORDINGLY.
F. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.
G. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.
H. ALL EXPOSED ENDS AND BACKS OF CASEWORK SHALL BE FINISHED.
I. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING/ELECTRICAL LINES.
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M. (ERWS) INDICATED MOTORIZED ROLLER WINDOW SHADES.
N. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.
O. (HLB) REFERS TO HORIZONTAL LOUVER BLINDS.
P. (CG) INDICATES CORNER GUARD; REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND I-12F LIST OF FINISHES FOR COLOR SELECTIONS.
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R. (RSX) INDICATES WALL MOUNTED SIGNAGE. REFER TO QG501.

EQUIPMENT NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

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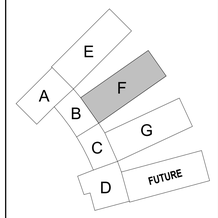
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KEY PLAN

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100% CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

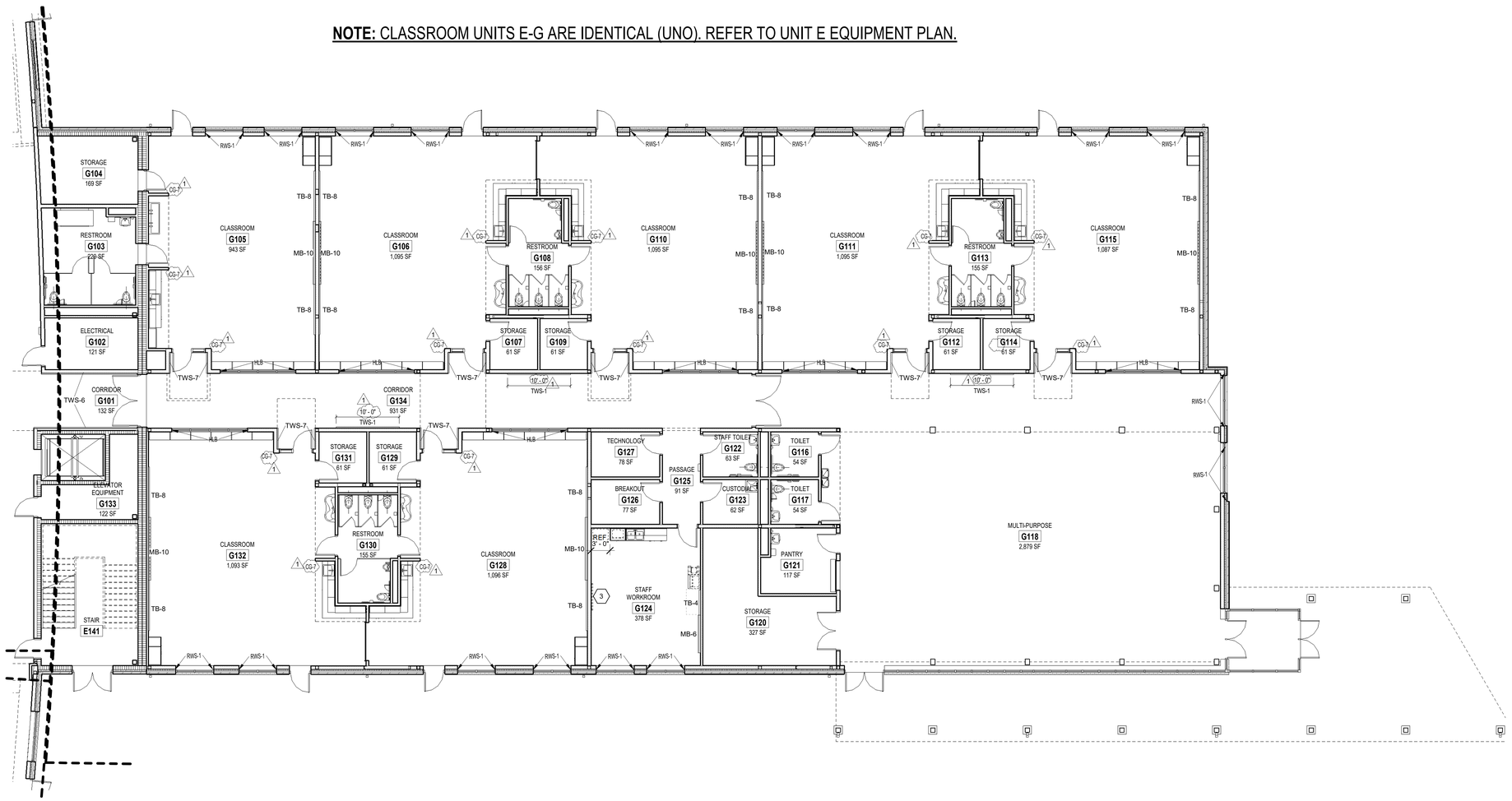
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR EQUIPMENT PLAN - UNIT F

Q-106

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NOTE: CLASSROOM UNITS E-G ARE IDENTICAL (UNO). REFER TO UNIT E EQUIPMENT PLAN.



FIRST FLOOR EQUIPMENT PLAN - UNIT G

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

EQUIPMENT GENERAL NOTES

A. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.
B. HIDDEN LINES (- - - -) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES (- - - -) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).
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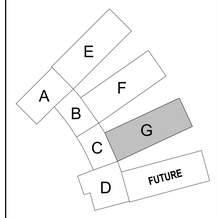
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KEY PLAN

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100% CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR EQUIPMENT PLAN - UNIT G

Q-107

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SECOND FLOOR EQUIPMENT PLAN - UNIT B

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

EQUIPMENT GENERAL NOTES

A. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.
B. HIDDEN LINES (- - - -) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES (- - - -) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).
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M. (ERWS) INDICATED MOTORIZED ROLLER WINDOW SHADES.
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EQUIPMENT NOTES

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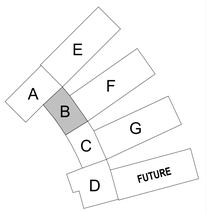
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KEY PLAN

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100% CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

SECOND FLOOR EQUIPMENT PLAN - UNIT B

Q-109

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SECOND FLOOR EQUIPMENT PLAN - UNIT C

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

EQUIPMENT GENERAL NOTES

A. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.
B. HIDDEN LINES (- - - -) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES (- - - -) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).
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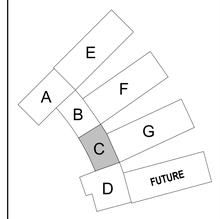
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KEY PLAN

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100% CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800181 STATE OF INDIANA ARCHITECT

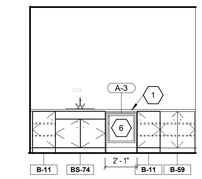
PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

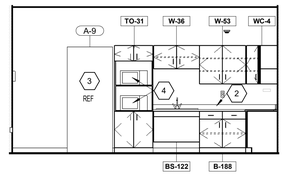
SECOND FLOOR EQUIPMENT PLAN - UNIT C

Q-110

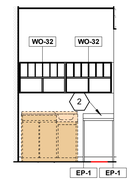
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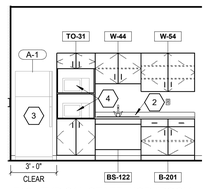
E6 A112 CONFERENCE ROOM
1/4" = 1'-0"



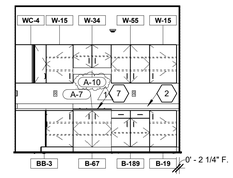
E5 A119 CATERING/KITCHENETTE- NORTH
1/4" = 1'-0"



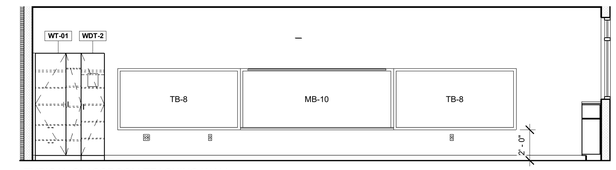
E2 TYPICAL CHANGING AREA - EAST
1/4" = 1'-0"



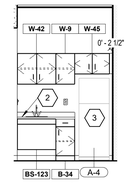
D6 E124 TYPICAL STAFF WORKROOM
1/4" = 1'-0"



D5 A119 CATERING/KITCHENETTE - EAST
1/4" = 1'-0"



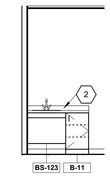
D4 TYPICAL CLASSROOM TEACHING WALL
1/4" = 1'-0"



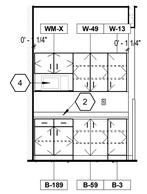
D2 B106 DAYCARE PREP AREA - WEST
1/4" = 1'-0"



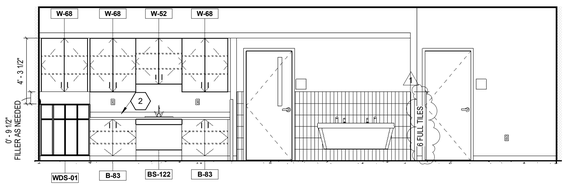
C4 TYPICAL CLASSROOM - SERVING AREA
1/4" = 1'-0"



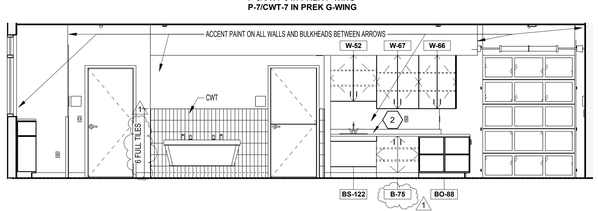
C3 F134 LACTATION ROOM
1/4" = 1'-0"



C2 B106 DAYCARE PREP AREA - EAST
1/4" = 1'-0"

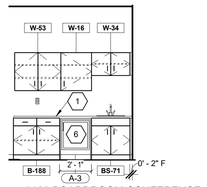


B6 E105 CLASSROOM - WET WALL
1/4" = 1'-0"

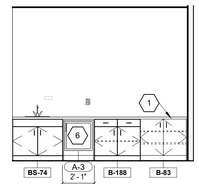


B4 TYPICAL CLASSROOM - SINK WALL
1/4" = 1'-0"

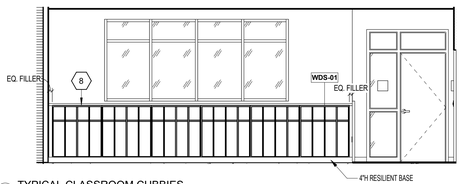
ACCENT PAINT/TILE:
P-3/CWT-3 IN PREK E-WING
P-5/CWT-5 IN PREK F-WING
P-7/CWT-7 IN PREK G-WING



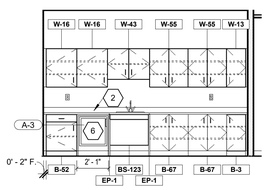
B3 A125 BOARDROOM CONFERENCE ROOM
1/4" = 1'-0"



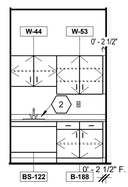
B2 A204 CONFERENCE ROOM
1/4" = 1'-0"



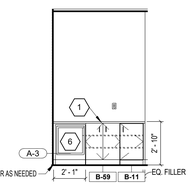
A6 TYPICAL CLASSROOM CUBBIES
1/4" = 1'-0"



A4 A111 WORKROOM - SOUTH
1/4" = 1'-0"



A3 TYPICAL CHANGING AREA SINK - WEST
1/4" = 1'-0"



A2 A203 CONFERENCE ROOM
1/4" = 1'-0"

INTERIOR ELEVATION NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 PLASTIC LAMINATE (PL-1) CASEWORK WITH SOLID SURFACE (SSM-1) TOP/NO BACKSPLASH.
2 PLASTIC LAMINATE (PL-1) CASEWORK WITH SOLID SURFACE (SSM-1) TOP AND 4"H BACKSPLASH.
3 REFRIGERATOR, BY OWNER. REFER TO SCHEDULE ON QE603.
4 MICROWAVE, BY OWNER. REFER TO SCHEDULE ON QE603.
5 COPIER. BY OWNER.
6 UNDERCOUNTER REFRIGERATOR, OWNER PROVIDED.
7 5 BURNER ELECTRIC COOKTOP. REFER TO SCHEDULE ON QE603.
8 SOLID SURFACE (SSM-1) TOP. NO BACKSPLASH.

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350 E NEW YORK ST #300, INDIANAPOLIS, IN 46204

100% CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

VERIFICATION NOTE

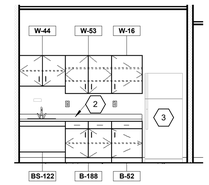
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

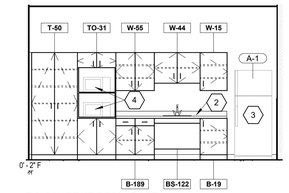
CASEWORK & EQUIPMENT ELEVATIONS

Q-201

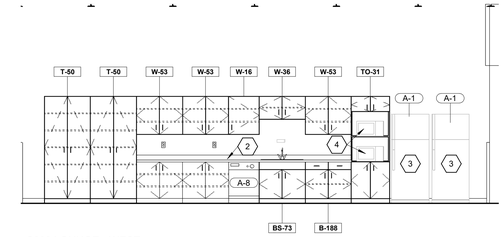
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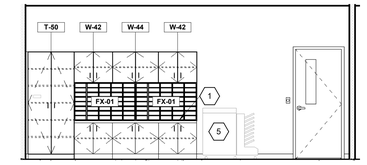
E1 D115 CLINIC - CASEWORK
1/4" = 1'-0"



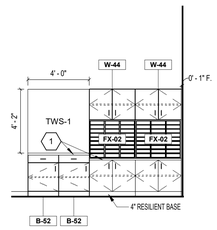
D1 D119 WORKROOM - EAST
1/4" = 1'-0"



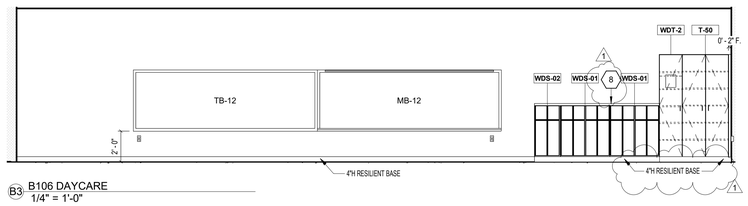
C4 C202 LOUNGE - WEST
1/4" = 1'-0"



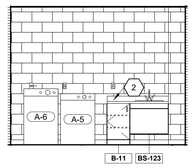
C1 D119 WORKROOM - WEST
1/4" = 1'-0"



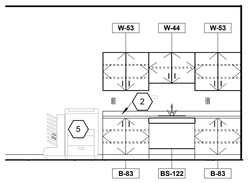
C3 C202 LOUNGE - NORTH
1/4" = 1'-0"



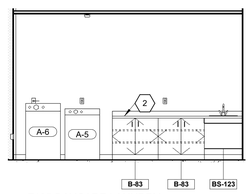
B3 B106 DAYCARE
1/4" = 1'-0"



B2 D122 LAUNDRY/CUSTODIAL
1/4" = 1'-0"



A3 D110 TEACHER PREP
1/4" = 1'-0"



A2 F135 DAYCARE LAUNDRY
1/4" = 1'-0"

INTERIOR ELEVATION NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PLASTIC LAMINATE (PL-1) CASEWORK WITH SOLID SURFACE (SSM-1) TOP/NO BACKSPLASH.
2. PLASTIC LAMINATE (PL-1) CASEWORK WITH SOLID SURFACE (SSM-1) TOP AND 4"H BACKSPLASH.
3. REFRIGERATOR, BY OWNER. REFER TO SCHEDULE ON QE603.
4. MICROWAVE, BY OWNER. REFER TO SCHEDULE ON QE603.
5. COPIER. BY OWNER.
6. UNDERCOUNTER REFRIGERATOR, OWNER PROVIDED.
7. 5 BURNER ELECTRIC COOKTOP. REFER TO SCHEDULE ON QE603.
8. SOLID SURFACE (SSM-1) TOP. NO BACKSPLASH.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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100% CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

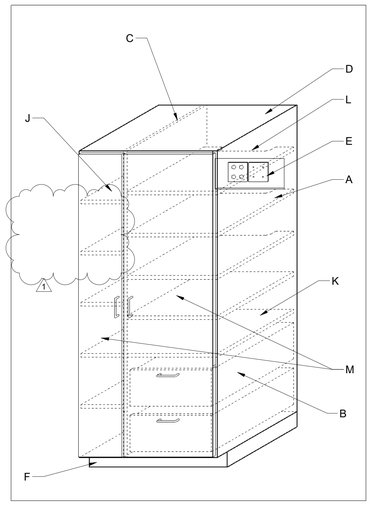
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

CASEWORK & EQUIPMENT ELEVATIONS

Q-202

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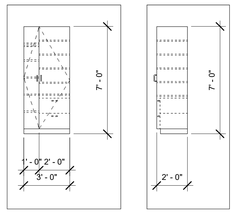
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STORAGE/TECHNOLOGY CABINET KEYNOTES

* REFER TO CASEWORK ELEVATIONS AND PLANS FOR ORIENTATION.
* UNIT TO BE 7'-0" TALL UNLESS OTHERWISE NOTED. REFER TO CASEWORK ELEVATIONS FOR ADDITIONAL INFORMATION.

A. 1" THICK PLASTIC LAMINATE ADJUSTABLE SHELF WITH NOTCHED OUT RADIUS IN REAR FOR CABLE PASSTHROUGH. ALL SHELVES TO ADJUST ON 1" INCREMENTS. PROVIDE 3 ADJUSTABLE PLASTIC LAMINATE SHELVES AS SHOWN. ALL EXPOSED EDGES TO BE FINISHED.
B. 24"W LOCKABLE FILE WITH 3MM PVC EDGE, TYPICAL OF 2. FILE DRAWER SHALL HAVE FRONT-TO-BACK AND SIDE-TO-SIDE HANGER FILE CAPABILITY, AND INCLUDE ALL NECESSARY HARDWARE COMPONENTS FOR FILING.
C. 1" THICK FIXED VERTICAL PLASTIC LAMINATE SUPPORT, TO EXTEND FULL DEPTH AND HEIGHT OF WARDROBE CABINET.
D. 1-1/4" THICK PLASTIC LAMINATE TOP WITH 3MM PVC EDGE.
E. POWER/DATA RECEPTACLE LOCATED AT 64" A.F.F. COORDINATE WARDROBE CUTOUT IN FIELD. POWER/DATA RECEPTACLES TO BE MOUNTED SO THAT FACEPLATE IS FLUSH WITH BACKSIDE OF CABINET. RECEPTACLES AND CUTOUT TO BE CENTERED HORIZONTALLY IN REAR OF WARDROBE CABINET. REFER TO ELECTRICAL/TECHNOLOGY DRAWINGS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION.
F. RUBBER BASE TO BE PROVIDED ON FACE OF 4"H CABINET KICKSPACE.
G. NOT USED.
H. NOT USED.
J. 1" THICK PLASTIC LAMINATE ADJUSTABLE SHELF, TYP. OF 5 AS SHOWN. ALL SHELVES TO ADJUST ON 1" INCREMENTS. NOTCHED OUT RADIUS IN REAR OF SHELVES NOT REQUIRED.
K. 1" THICK PLASTIC LAMINATE FIXED SHELF. NOTCHED OUT RADIUS IN REAR OF SHELF NOT REQUIRED.
L. 3"W x 14"L NOTCHED REAR OF ADJUSTABLE SHELVES FOR CABLE PASS-THROUGH, TYPICAL FOR ALL ADJUSTABLE SHELVES AS NOTED.
M. SOLID, LOCKABLE, PLASTIC LAMINATE DOORS WITH 3MM PVC EDGE, FULL HEIGHT, TYPICAL.

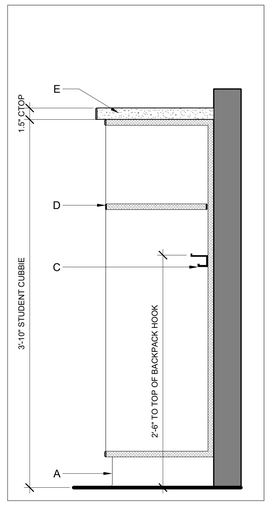


FRONT ELEVATION
REFER TO PLANS AND ELEVATIONS FOR DOOR CONFIGURATION

SIDE ELEVATION

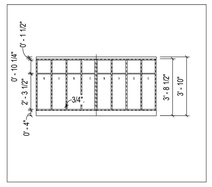
STORAGE/TECHNOLOGY CABINET (WT)

* NOT TO SCALE
* PROVIDE UNDER EDUCATION CASEWORK-DIVISION 12
* PROVIDE UNDER ARCHITECTURAL WOODWORK (CUSTOM CASEWORK)-DIVISION 6, AS INDICATED ON CASEWORK ELEVATIONS



* REFER TO CASEWORK ELEVATIONS FOR ADDITIONAL INFORMATION.
* UNIT TO BE 3'-10" TALL x 15" DEEP UNLESS OTHERWISE NOTED.

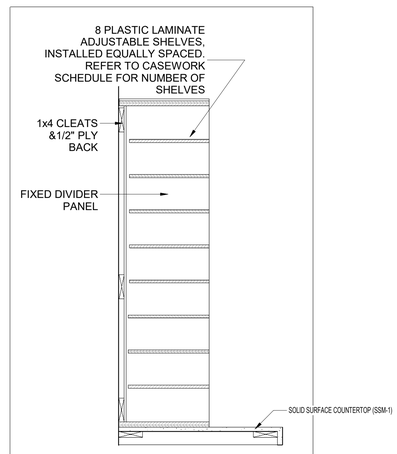
A. RUBBER BASE TO BE PROVIDED ON FACE OF 4"H CABINET KICKSPACE.
B. PROVIDE A 3" DOUBLE-SIDED COAT-HOOK, MOUNTED AS SHOWN (CENTERED SIDE-TO-SIDE/FRONT-TO-BACK)
C. PROVIDE A 3" DOUBLE-TIER BACKPACK HOOK, REAR MOUNTED AS SHOWN. (CENTERED SIDE-TO-SIDE)
D. 1" THICK PLASTIC LAMINATE FIXED SHELF.
E. 1.5" THICK SOLID SURFACE (SSM-1) TOP WITH EASED EDGE AND 1" OVERHANG.



WDS-1
FRONT ELEVATION

STUDENT CUBBIE (WDS) - SECTION

* NOT TO SCALE
* PROVIDE UNDER EDUCATION CASEWORK-DIVISION 12
* REFER TO CASEWORK ELEVATIONS FOR ADDITIONAL INFORMATION



MAILBOX DETAIL (FX-01)

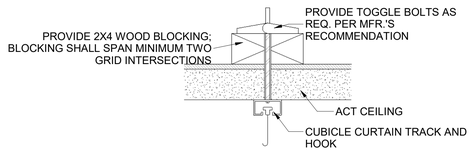
* NOT TO SCALE
* PROVIDE UNDER EDUCATION CASEWORK-DIVISION 12
* REFER TO CASEWORK ELEVATIONS FOR ORIENTATION

* DEPTH OF UNIT MAY VARY. REFER TO CASEWORK ELEVATIONS FOR ADDITIONAL INFORMATION.

A. COORDINATE LOCATION AND SIZE OF LAVATORY/SINK TO AVOID CONFLICT WITH CABINET. MAXIMUM SINK DEPTH OF 6-1/2", HOWEVER ACCESSIBLE LAVS. AND SINKS CANNOT ENCROACH INTO THE REQUIRED KNEE AND TOE CLEARANCES, HOWEVER THE DIP OF THE OVERFLOW SHALL NOT BE CONSIDERED IN DETERMINING KNEE AND TOE CLEARANCES.
B. PROVIDE WOOD BLOCKING AS REQUIRED.
C. REFER TO CASEWORK ELEVATIONS FOR WIDTH OF UNIT (30" MIN. INSIDE CLEARANCE REQ).
D. TOP OF BACKSPLASH TO ALIGN WITH TOP OF ADJACENT BACKSPLASH. PROVIDE 4"H BACKSPLASH IF NO ADJACENT BACKSPLASH.
E. 24" NOMINAL DEPTH, UNLESS NOTED OTHERWISE, OR ALIGN FACE OF APPROACH WITH FACE OF CABINET BEYOND.
F. PLUMBING CONTRACTOR TO PROVIDE INSULATED PIPES.
G. OFFSET GRID STRAINER, TAILPIECE, AND PIPING TOWARDS REAR OF LAV. TO AVOID POTENTIAL CONFLICT WITH ACCESSIBLE CABINET.
H. THE 34" DIMENSION IS TO THE HIGHEST SURFACE, THE COUNTERTOP OR THE RIM OF THE PLUMBING FIXTURE.
J. SOLID SURFACE COUNTERTOP AND BACKSPLASH WITH EASED EDGE AT ALL EXPOSED EDGES, U.N.O.
K. PLASTIC LAMINATE.
L. SINK. REFER TO PLUMBING DRAWINGS.
M. REMOVABLE SECTION, AS REQ'D FOR PLUMBING ACCESS
N. FINISH FLOOR MATERIAL AND WALL BASE. REFER TO FINISH PLANS, LIST OF FINISHES, AND PROJECT MANUAL.
P. MAINTAIN ACCESSIBILITY CLEARANCES WITH ALL PLUMBING ACCESSORIES

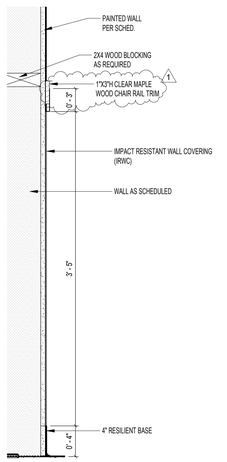
ACCESSIBLE SINK - ADULT HEIGHT

* NOT TO SCALE
* PROVIDE UNDER EDUCATION CASEWORK-DIVISION 12
* REFER TO CASEWORK ELEVATIONS FOR ORIENTATION

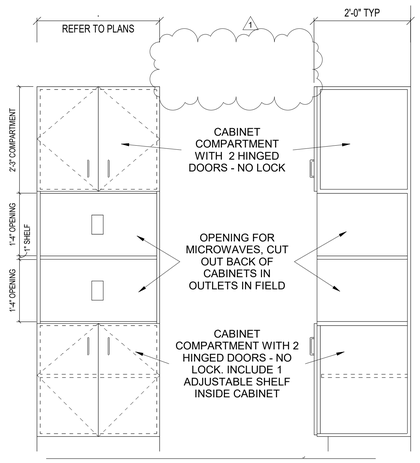


CUBICLE CURTAIN DETAIL

* NOT TO SCALE

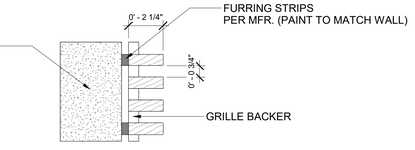


③ CHAIR RAIL DETAIL
1 1/2" = 1'-0"



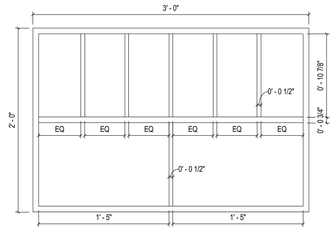
TALL MICROWAVE CABINET DETAIL

* NOT TO SCALE
* PROVIDE UNDER EDUCATION CASEWORK-DIVISION 12
* REFER TO CASEWORK ELEVATIONS FOR ORIENTATION



WOOD GRILLE WALL SYSTEM DETAIL

* NOT TO SCALE
* REFER TO ELEVATIONS FOR ORIENTATION



DIAPER STORAGE

* NOT TO SCALE
* PROVIDE UNDER EDUCATION CASEWORK-DIVISION 12
* REFER TO CASEWORK ELEVATIONS FOR ORIENTATION

Autodesk Docs://Zionsville ELC/2023_EOPT_224033.00.rvt
7/7/2025 12:15:09 PM

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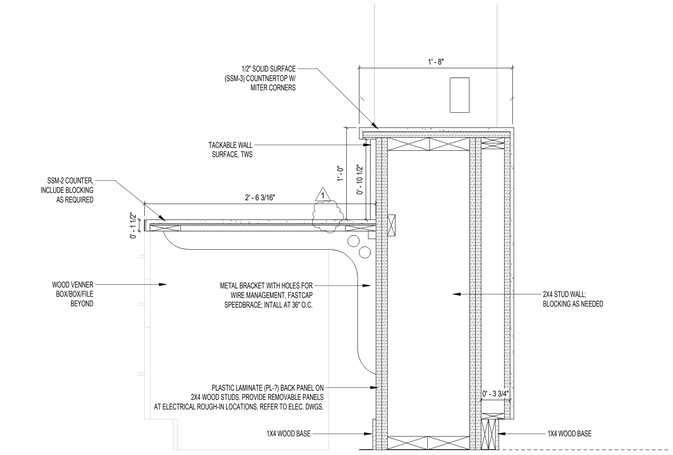
PROJECT MANAGER: JM
DRAWN BY: VLM
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

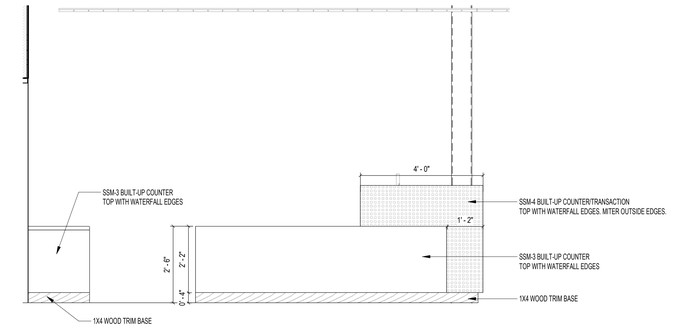
EQUIPMENT DETAILS

QE501

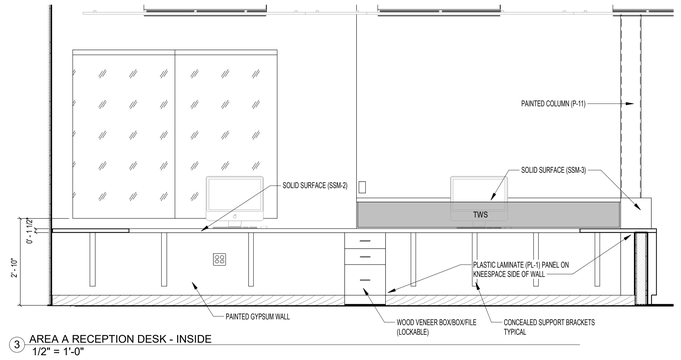
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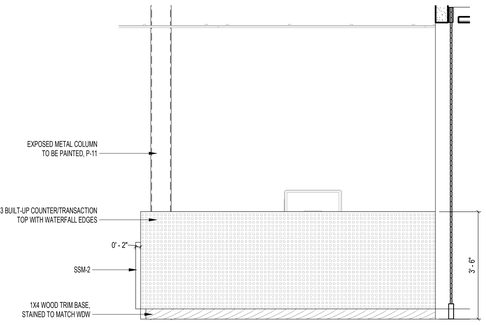
9 AREA A DESK - FRONT SECTION
1 1/2" = 1'-0"



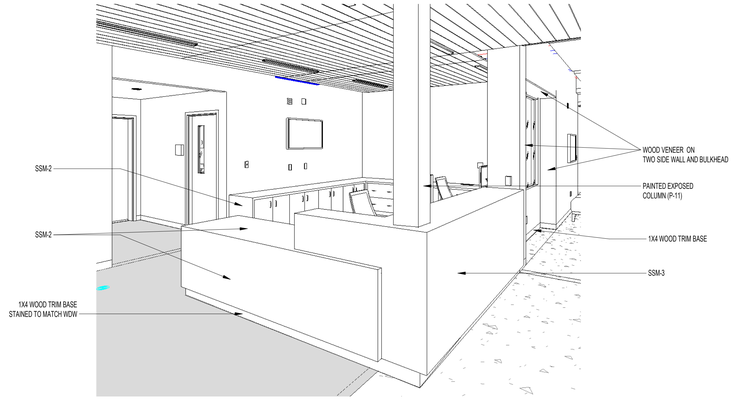
6 AREA A RECEPTION DESK - SIDE
1/2" = 1'-0"



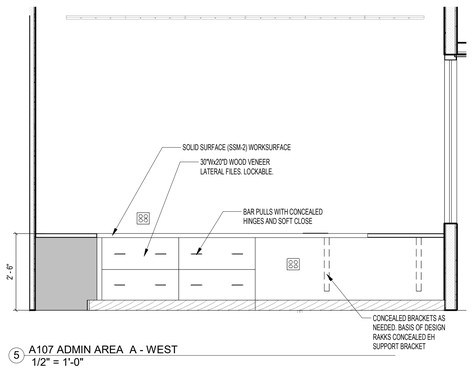
3 AREA A RECEPTION DESK - INSIDE
1/2" = 1'-0"



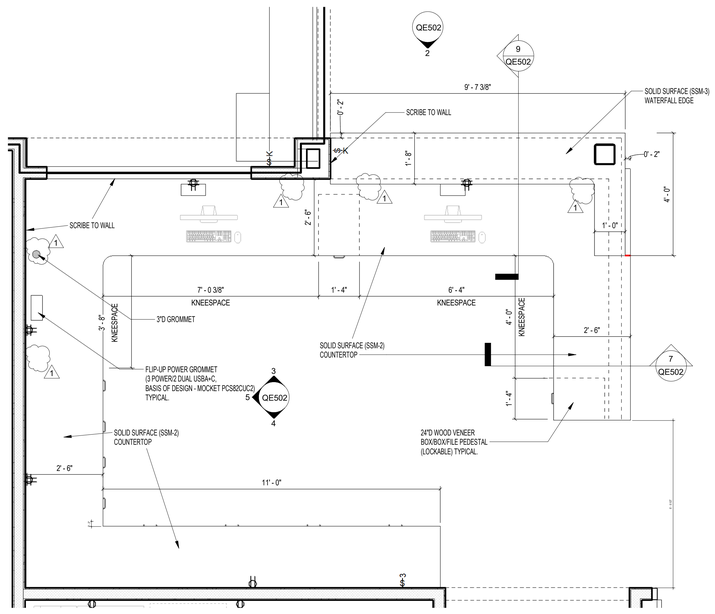
2 AREA A RECEPTION DESK - FRONT
1/2" = 1'-0"



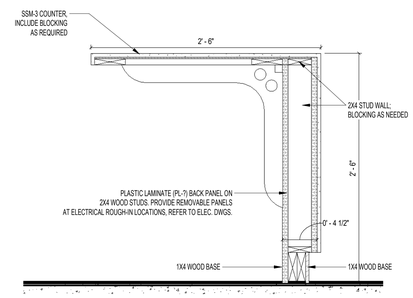
8 RECEPTION DESK 3D



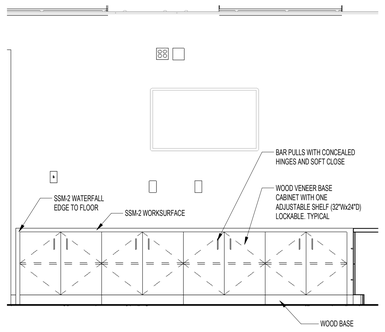
5 A107 ADMIN AREA A - WEST
1/2" = 1'-0"



1 A107 ADMIN ASSISTANT DESK
1/2" = 1'-0"



7 AREA A RECEPTION DESK COUNTER
1 1/2" = 1'-0"



4 AREA A RECEPTION DESK - REAR
1/2" = 1'-0"

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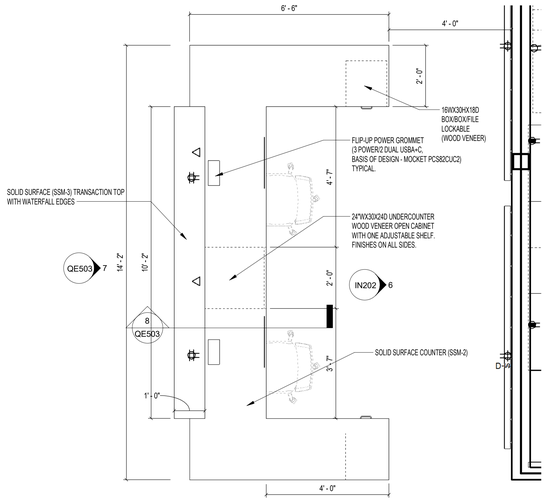
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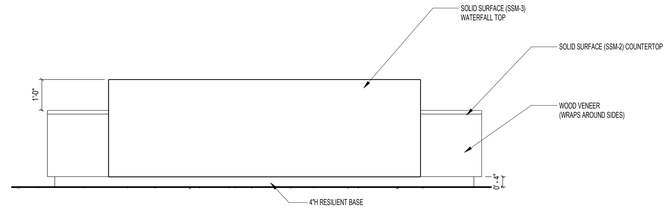
EQUIPMENT DETAILS

QE502

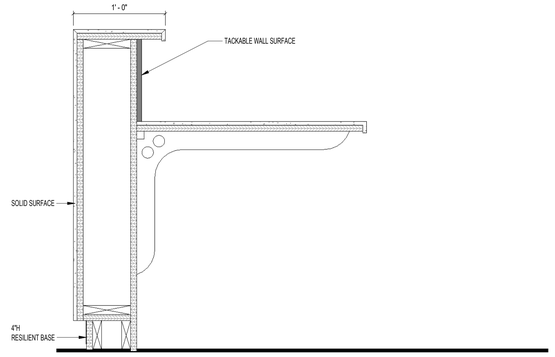
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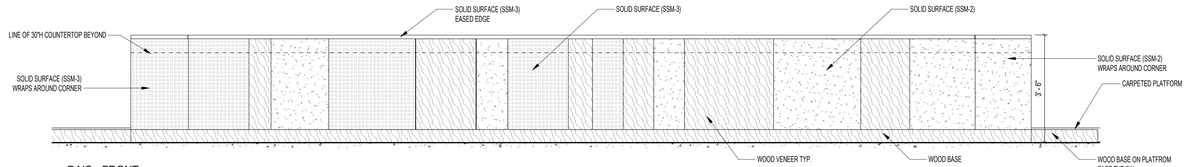
6 AREA D RECEPTION PLAN
1/2" = 1'-0"



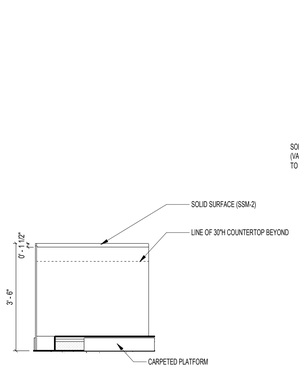
7 AREA D RECEPTION - FRONT
1/2" = 1'-0"



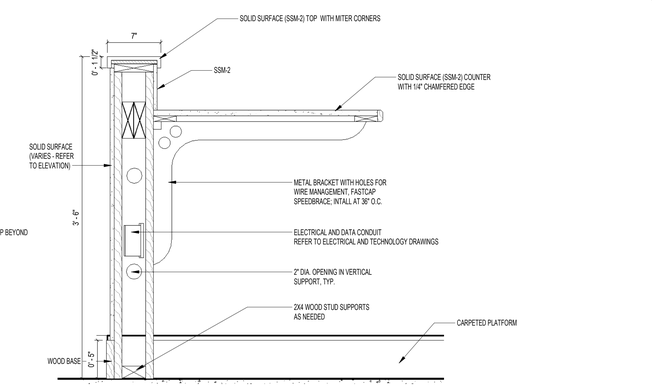
8 ESC RECEPTION SECTION
1 1/2" = 1'-0"



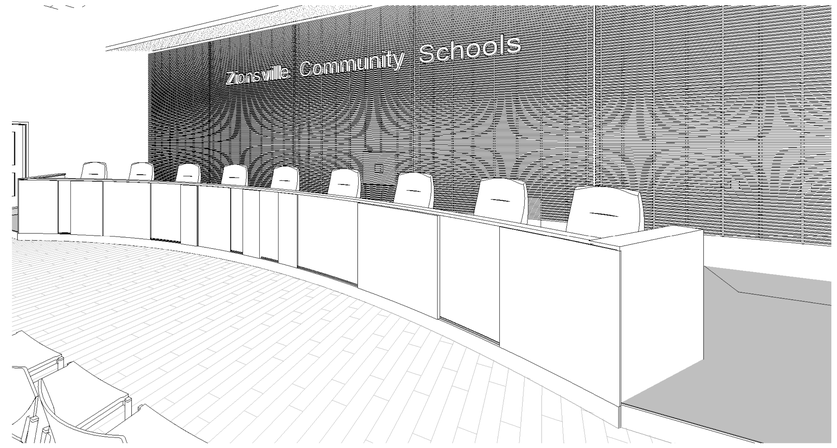
2 DAIS - FRONT
1/2" = 1'-0"



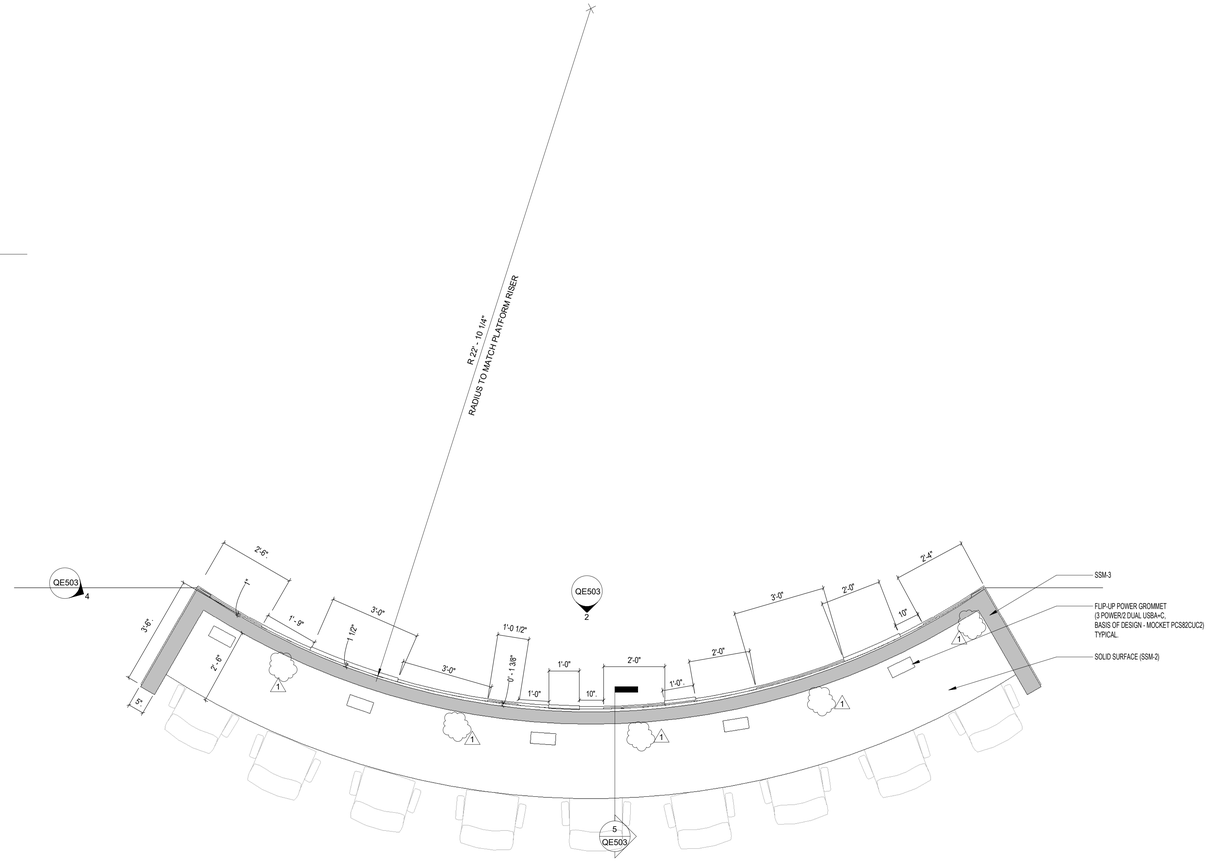
4 DAIS - SIDE ELEVATION
1/2" = 1'-0"



5 DAIS - SECTION
1 1/2" = 1'-0"



3 DAIS 3D



1 BOARD ROOM - DAIS
1/2" = 1'-0"

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INDIANA
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PROJECT MANAGER: JM
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PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

EQUIPMENT DETAILS

QE503

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CASEWORK SCHEDULE

TYPE	NO.	SIZE W	SIZE D	SIZE H	DESCRIPTION
B	3	1' - 3"	2' - 0"	2' - 10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND ONE HINGED DOOR.
B	11	1' - 6"	2' - 0"	2' - 10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND ONE HINGED DOOR.
B	19	1' - 9"	2' - 0"	2' - 10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND ONE HINGED DOOR.
B	34	1' - 3"	2' - 0"	2' - 10"	BASE UNIT WITH ONE DRAWER, ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
B	52	2' - 0"	2' - 0"	2' - 10"	BASE UNIT WITH ONE DRAWER, ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
B	59	2' - 3"	2' - 0"	2' - 10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
B	66	2' - 6"	2' - 0"	2' - 6"	BASE UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	67	2' - 6"	2' - 0"	2' - 10"	BASE UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	68	2' - 5"	2' - 0"	2' - 10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
B	75	2' - 9"	2' - 0"	2' - 10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
B	82	3' - 0"	2' - 0"	2' - 6"	BASE UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	83	3' - 0"	2' - 0"	2' - 10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
B	188	3' - 0"	2' - 0"	2' - 10"	BASE UNIT WITH TWO DRAWERS, ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	189	2' - 6"	2' - 0"	2' - 10"	BASE UNIT WITH TWO DRAWERS, ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	201	3' - 6"	2' - 0"	2' - 10"	BASE UNIT WITH TWO DRAWERS, ONE VERTICAL DIVIDER, TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
BB	3	3' - 9"	2' - 0"	2' - 10"	BLIND CORNER BASE UNIT WITH TWO ADJUSTABLE SHELVES AND ONE HINGED DOOR.
BO	88	3' - 4"	2' - 0"	2' - 10"	OPEN BASE UNIT WITH TWO ADJUSTABLE SHELVES, DIVIDER IN CENTER. OPEN FROM FRONT AND ONE SIDE. INCLUDES ROUND METAL TUBE ON CORNER.
BS	71	2' - 6"	2' - 0"	2' - 10"	SINK BASE UNIT WITH TWO HINGED DOORS AND ONE BLANK DRAWER PANEL.
BS	73	3' - 0"	2' - 0"	2' - 10"	SINK BASE UNIT WITH TWO HINGED DOORS AND ONE BLANK DRAWER PANEL.
BS	74	3' - 3"	2' - 0"	2' - 10"	SINK BASE UNIT WITH TWO POCKET DOORS, ONE BLANK DRAWER PANEL AND ACCESS PANEL.
BS	122	3' - 0"	2' - 0"	2' - 0"	ADULT ADA SINK BASE UNIT WITH A REMOVABLE ACCESS PANEL.
BS	123	2' - 6"	2' - 0"	2' - 0"	ADULT ADA SINK BASE UNIT WITH A REMOVABLE ACCESS PANEL.
EP	1	0' - 0 3/4"	2' - 0"	2' - 10"	3/4" THICK END PANEL
FX	01	4' - 0"	1' - 0 3/4"	2' - 6"	MAILBOX UNIT WITH 40 OPENINGS. REFER TO DETAIL ON QE501.
FX	02	3' - 0"	1' - 0 3/4"	2' - 6"	MAILBOX UNIT WITH 27 OPENINGS. REFER TO DETAIL ON QE501.
T	50	3' - 0"	2' - 0"	7' - 0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND TWO HINGED DOORS. SHELVES TO HAVE NOTCHED OUT RADIUS IN REAR FOR CABLE PASSTHROUGH POWER/DATA RECEPTACLE LOCATED AT 64" A.F.F. COORDINATE CUTOUT IN FIELD. POWER/DATA RECEPTACLES TO BE MOUNTED SO THAT FACEPLATE IS FLUSH WITH BACKSIDE OF CABINET. RECEPTACLES AND CUTOUT TO BE CENTERED HORIZONTALLY IN REAR OF WARDROBE CABINET. REFER TO ELECTRICAL/TECHNOLOGY DRAWINGS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION. 1
TO	31	2' - 6"	2' - 0"	7' - 0"	TALL DOOR/OPEN UNIT. TWO DOOR UPPER CABINET. OPEN CABINET IN MIDDLE WITH ONE ADJUSTABLE SHELF AND ONE FIXED SHELF.
W	9	1' - 3"	1' - 2"	2' - 0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
W	12	2' - 0"	1' - 2"	2' - 0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
W	13	1' - 3"	1' - 2"	2' - 6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
W	15	1' - 9"	1' - 2"	2' - 6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
W	16	2' - 0"	1' - 2"	2' - 6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
W	34	2' - 6"	1' - 2"	1' - 6"	WALL UNIT WITH TWO HINGED DOORS.
W	36	3' - 0"	1' - 2"	1' - 6"	WALL UNIT WITH TWO HINGED DOORS.
W	42	2' - 6"	1' - 2"	2' - 0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS
W	43	2' - 9"	1' - 2"	2' - 0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS
W	44	3' - 0"	1' - 2"	2' - 0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS
W	45	2' - 3"	1' - 2"	1' - 4"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
W	49	2' - 3"	1' - 2"	2' - 6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
W	52	3' - 0"	1' - 2"	3' - 0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
W	53	3' - 0"	1' - 2"	2' - 6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
W	54	3' - 6"	1' - 2"	2' - 6"	WALL UNIT WITH ONE VERTICAL DIVIDER, TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
W	55	2' - 6"	1' - 2"	2' - 6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
W	66	2' - 5"	1' - 2"	3' - 6"	WALL UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
W	67	2' - 9"	1' - 2"	3' - 6"	WALL UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
W	68	3' - 0"	1' - 2"	3' - 6"	WALL UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
WC	4	1' - 2"	2' - 0"	2' - 6"	WALL CORNER UNIT WITH DIAGONAL FACE, ONE ADJUSTABLE SHELF, AND ONE HINGED DOOR.
WDS	00	3' - 3 3/4"	1' - 3"	4' - 0"	4 UNIT WIDE STUDENT WARDROBE WITH FIXED UPPER SHELF, 9 INCH WIDE COAT COMPARTMENT AND A DOUBLE COAT HOOK.
WDS	01	3' - 3 1/2"	1' - 3"	3' - 8 1/2"	4 UNIT WIDE STUDENT WARDROBE WITH FIXED UPPER SHELF, 9 INCH WIDE COAT COMPARTMENT AND A DOUBLE COAT HOOK.
WDS	2	1' - 0"	1' - 3"	4' - 0"	1 UNIT WIDE STUDENT WARDROBE WITH FIXED UPPER SHELF, 12 INCH WIDE COAT COMPARTMENT AND A DOUBLE COAT HOOK.
WDS	02	1' - 8 1/4"	1' - 3"	3' - 8 1/2"	2 UNIT WIDE STUDENT WARDROBE WITH FIXED UPPER SHELF, 9 INCH WIDE COAT COMPARTMENT AND A DOUBLE COAT HOOK.
WDT	2	1' - 6"	2' - 0"	7' - 0"	TALL TEACHER WARDROBE CABINET WITH 5 ADJUSTABLE SHELVES, REMOVABLE COAT ROD AND MIRROR. INCLUDE LOCK ON THIS CABINET.
WM	X	2' - 6"	1' - 2"	1' - 4"	MICROWAVE CABINET WITH 2 UPPER DOORS AND 22"D OPEN SHELF BELOW. INCLUDE CUTOUT FOR OUTLET.
WO	20	3' - 0"	1' - 2"	1' - 6"	OPEN WALL UNIT.
WO	32	3' - 0"	1' - 2"	2' - 0"	OPEN WALL DIAPER STORAGE UNIT WITH CENTER DIVIDER ON BOTTOM SHELF AND SIX EQUALLY SPACED SLOTS FOR DIAPER STORAGE ABOVE. REFER TO DETAIL ON SHEET QE502.
WO	68	2' - 5"	1' - 2"	3' - 6"	OPEN WALL UNIT WITH TWO ADJUSTABLE SHELVES.
WT	01	3' - 0"	2' - 0"	7' - 0"	TALL STORAGE/TECHNOLOGY CABINET WITH ONE FIXED VERTICAL PANEL, INCLUDE 5 ADJUSTABLE SHELVES, AND FILING DRAWERS. REFER TO DETAIL ON QE501. INCLUDE LOCK ON THIS CABINET. 1

RESIDENTIAL APPLIANCE SCHEDULE

ITEM NO.	ITEM DESCRIPTION	ELEC. FIELD CONNECTION	MECH. FIELD CONNECTION	PLUMB. FIELD CONNECTION	OWNER PROVIDED	CONTRACTOR PROVIDED
A-1	**REFRIGERATOR WITH TOP FREEZER** • 18 CU.FT. • REVERSIBLE HINGES • DOES NOT INCLUDE ICE MAKER • ENERGY STAR QUALIFIED • 66.375"H x 30"W x 30.375"D • COLOR: FINGERPRINT-RESISTANT STAINLESS STEEL • BASIS OF DESIGN FRIGIDAIRE FFHT1835VS	115V, 60Hz, 15AMPS		X	X	
A-2	**MICROWAVE** • 1.6 CU.FT. • RECESSED GLASS TURNTABLE • ELECTRONIC DIGITAL DISPLAY WITH CLOCK • MULTIPLE POWER LEVELS, SENSOR COOKING CONTROLS • 21.75"W x 12.25"H X 18.31"D • COLOR: STAINLESS STEEL • BASIS OF DESIGN WHIRLPOOL WMCS7022PZ	1200W			X	
A-3	**UNDER-COUNTER REFRIGERATOR** • 3.87 CU.FT. • REVERSIBLE HINGES • ENERGY STAR QUALIFIED • 23.4"W x 31.5"H x 24.7"D • COLOR: STAINLESS STEEL • BASIS OF DESIGN: HOSHIZAKI HR24C-G	115V, 60Hz, 15/20AMPS				X
A-4	**REFRIGERATOR (DAYCARE)** • 18 CU.FT. • ENERGY STAR QUALIFIED • 66.2"H x 27.8"W x 30.8"D • COLOR: FINGERPRINT-RESISTANT STAINLESS STEEL • BASIS OF DESIGN FRIGIDAIRE FFHT1822UV	120V, 60Hz, 15AMPS			X	
A-5	**FRONT LOAD WASHER** • 4.3 CU.FT. • MULTIPLE CYCLES • ADA COMPLIANT • ENERGY STAR QUALIFIED • 27"W x 38"H x 31"D • COLOR: WHITE • BASIS OF DESIGN WHIRPOOL WFW560CH	120V, 15/20AMPS		X		X
A-6	**FRONT LOAD ELECTRIC DRYER** • 7.5 CU.FT. • MULTIPLE CYCLES • ADA COMPLIANT • ENERGY STAR QUALIFIED • 27"W x 38.75"H x 31.5"D • COLOR: WHITE • BASIS OF DESIGN WHIRPOOL WED5620HW	240V, 60Hz, 30AMPS	X			X
A-7	**ELECTRIC COOKTOP** • 4.8 CU.FT. • CERAMIC GLASS COOKTOP w/ 5 BURNERS • ADA COMPLIANT KNOBS AT FRONT OF COOKTOP • 29.75"W x 21.4"D • COLOR: STAINLESS STEEL & BLACK • BASIS OF DESIGN: GE JEP5030DTBB	240V, 60Hz, 40AMPS				X
A-8	**DISHWASHER** • 1-HOUR WASH CYCLE • ADA COMPLIANT • 23.5"W x 32.5"H x 24"D • COLOR: STAINLESS STEEL • BASIS OF DESIGN: WHIRLPOOL WDF550SAHS	120V, 60Hz, 15/20AMPS		X		X
A-9	**REFRIGERATOR (3-DOOR FRENCH) WITH ICE MAKER** • 27 CU.FT. • ENERGY STAR QUALIFIED • 69.75"H x 36"W x 34"D • COLOR: FINGERPRINT-RESISTANT STAINLESS STEEL • BASIS OF DESIGN GE GNE27JYMFS	120V, 60Hz, 15AMPS		X	X	
A-10	**RECIRCULATING RANGE HOOD** • LED LIGHT • 3-SPEED CONTROL • ADD WALL SWITCH IN ADA APPLICATION • 30"W x 5"H x 19.88"D • USE NON-DUCTED FILTER (HPF30) • COLOR: STAINLESS STEEL • BASIS OF DESIGN: BROAN SAHALE SERIES BKDEG130SS	120V, 60Hz 0.65AMPS				X 1

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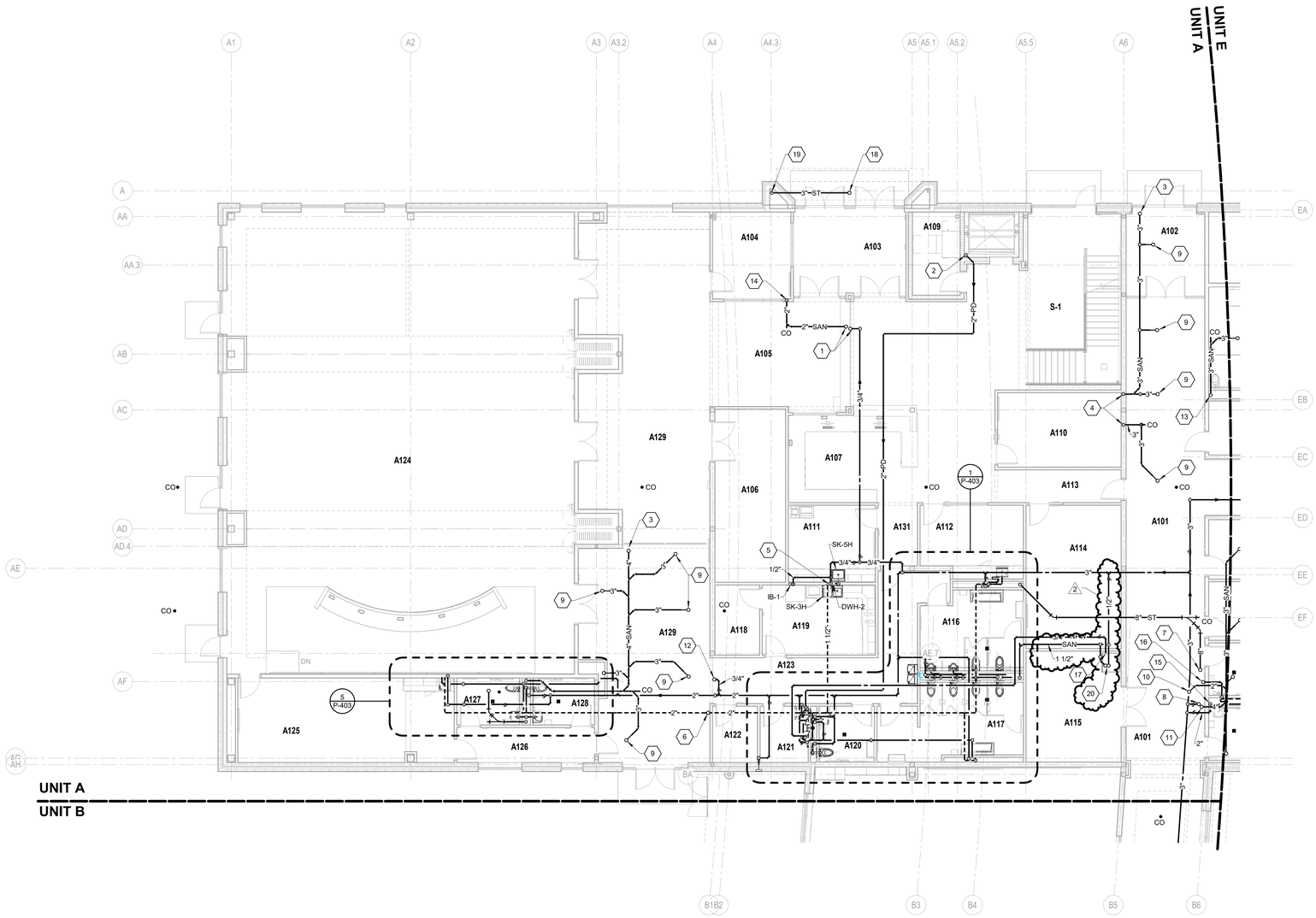
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EDUCATIONAL CASEWORK SCHEDULES

QE601

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7/7/2025 12:15:14 PM



FIRST FLOOR PLUMBING PLAN - UNIT A

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

ROOM LEGEND	
ROOM NO.	ROOM NAME
A101	CORRIDOR
A102	VESTIBULE
A103	VESTIBULE
A104	SRO
A105	LOBBY
A106	STORAGE
A107	RECEPTION
A108	LOBBY
A109	ELEVATOR EQUIPMENT
A110	COMMUNITY RELATIONS OFFICE
A111	WORKROOM
A112	CONFERENCE ROOM
A113	PASSAGE
A114	ZEF FOUNDATION OFFICE
A115	TECHNOLOGY
A116	MEN'S RESTROOM
A117	WOMEN'S RESTROOM
A118	STORAGE
A119	CATERING/KITCHENETTE
A120	FAMILY RESTROOM
A121	CUSTODIAL
A122	STORAGE
A123	PASSAGE
A124	BOARD ROOM
A125	CONFERENCE ROOM
A126	PASSAGE
A127	RESTROOM
A128	RESTROOM
A129	CORRIDOR
A130	PASSAGE
A131	PASSAGE
B101	CORRIDOR
B102	DAYCARE INFANTS/TODDLERS
E101	CORRIDOR
E102	ELECTRICAL
E103	RESTROOM
E104	STORAGE
E105	CLASSROOM
E132	CLASSROOM
E133	OT/PT/SPEECH OFFICE
E134	OT/PT/SPEECH OFFICE
E135	RESTROOM
E136	OUTDOOR STORAGE
E139	RESTROOM
E-1	ELEVATOR
S-1	STAIR

FIRST FLOOR UNIT A PLAN NOTES

1. 2" WASTE FROM ABOVE, 3/4" COLD WATER UP.
2. 2" PUMPED DISCHARGE FROM BELOW SLAB UP TO ABOVE CEILING.
3. 3" VENT UP.
4. 3" WASTE DOWN TO BELOW SLAB.
5. 3/4" COLD WATER DOWN IN WALL. EXTEND 3/4" COLD WATER TO UNDERCOUNTER POINT-OF-USE ELECTRIC WATER HEATER. EXTEND HOT AND COLD WATER TO EACH FIXTURE. EXTEND 1 1/2" WASTE HORIZONTALLY TO WASTE DROP. 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.
6. 2" VENT UP.
7. 8" STORM FROM ABOVE.
8. 1 1/2" COLD WATER UP.
9. 3" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
10. 2" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
11. 4" WASTE FROM ABOVE.
12. 3/4" COLD WATER UP.
13. 3" WASTE DOWN INTO CHASE. CONNECT TO WATER CLOSET CARRIER AS REQUIRED.
14. 2" WASTE DOWN TO BELOW SLAB.
15. 2" COLD WATER DOWN IN CHASE. ROUTE FULL SIZE THRU ENTIRE LENGTH OF CHASE. EXTEND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'B' AT LAST FLUSH VALVE CONNECTION. EXTEND 3/4" COLD WATER TO UNDERCOUNTER INSTANTANEOUS ELECTRIC WATER HEATER. EXTEND HOT WATER TO LAVATORIES AND MAKE FINAL CONNECTIONS AS REQUIRED.
16. 1/2" HOT WATER FROM ABOVE. ROUTE THRU CEILING SPACE AND DROP DOWN INTO CHASE. EXTEND TO FIXTURES AS REQUIRED.
17. CONNECT 3/4" COLD WATER TO HVAC EQUIPMENT HUMIDIFIER CONNECTION. PROVIDE SHUTOFF VALVE AT CONNECTION.
18. 3" STORM FROM ROOF DRAIN ABOVE.
19. 3" STORM DOWN TO BELOW SLAB.
20. 1/2" COLD WATER UP. 1 1/2" WASTE FROM ABOVE.

2

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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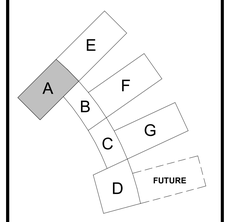
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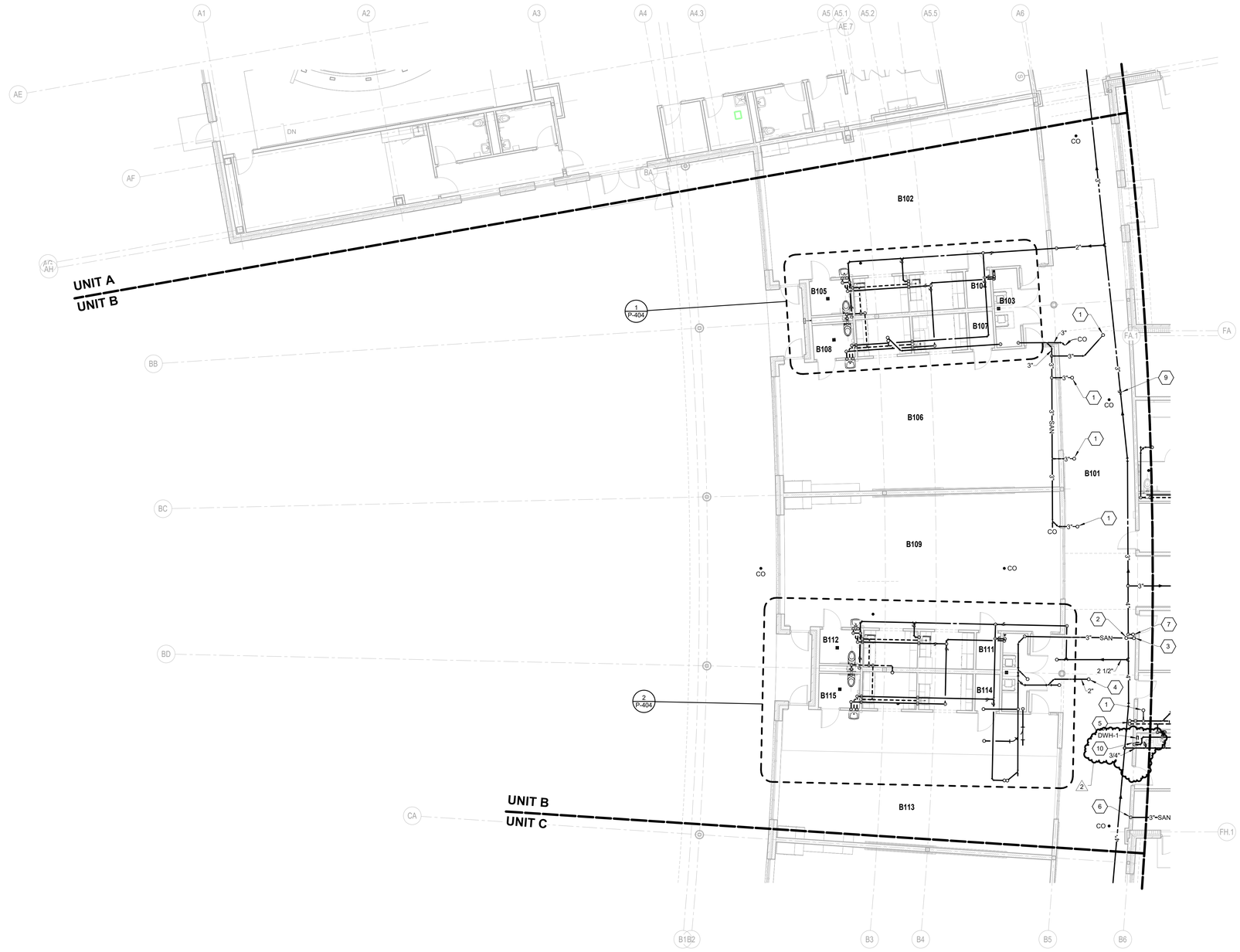
PROJECT MANAGER: JM
DRAWN BY: JE
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #1	07.09.2025

FIRST FLOOR PLUMBING PLAN - UNIT A

PL11A

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FIRST FLOOR PLUMBING PLAN - UNIT B

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

ROOM LEGEND	
ROOM NO.	ROOM NAME
A101	CORRIDOR
A115	TECHNOLOGY
A116	MEN'S RESTROOM
A117	WOMEN'S RESTROOM
A118	STORAGE
A119	CATERING/KITCHENETTE
A120	FAMILY RESTROOM
A121	CUSTODIAL
A122	STORAGE
A123	PASSAGE
A124	BOARD ROOM
A125	CONFERENCE ROOM
A126	PASSAGE
A127	RESTROOM
A128	RESTROOM
A129	CORRIDOR
A130	PASSAGE
B101	CORRIDOR
B102	DAYCARE INFANTS/TODDLERS
B103	HEAT PUMP CLOSET
B104	CLOSET
B105	TOILET
B106	DAYCARE INFANTS/TODDLERS
B107	CLOSET
B108	TOILET
B109	DAYCARE INFANTS/TODDLERS
B110	HEAT PUMP CLOSET
B111	STORAGE
B112	TOILET
B113	DAYCARE INFANTS/TODDLERS
B114	STORAGE
B115	TOILET
C101	CORRIDOR
C102	DAYCARE INFANTS/TODDLERS
E132	CLASSROOM
E136	OUTDOOR STORAGE
E137	CORRIDOR
E139	RESTROOM
F101	CORRIDOR
F102	ELECTRICAL
F103	RESTROOM
F104	STORAGE
F105	CLASSROOM
F132	CLASSROOM
F133	OT/PT/SPEECH OFFICE
F134	MOTHERS ROOM
F135	DAYCARE LAUNDRY
F136	OUTDOOR STORAGE

FIRST FLOOR UNIT B PLAN NOTES

1. 3" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
2. 3" WASTE WITH DEEP SEAL P-TRAP FROM MOP BASIN ABOVE.
3. 1 1/2" VENT UP, 3" WASTE DOWN.
4. 2" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
5. 2" WASTE FROM ABOVE AND DOWN TO BELOW SLAB. 1 1/2" VENT UP TO FLOOR ABOVE.
6. 3" WASTE DOWN TO BELOW SLAB.
7. 3/4" COLD WATER UP.
8. 3" WASTE DOWN INTO CHASE. CONNECT TO WATER CLOSET CARRIER AS REQUIRED.
9. GENERAL BUILDING COLD WATER ISOLATION VALVE.
10. 3/4" COLD WATER DOWN TO POINT-OF-USE ELECTRIC WATER HEATER MOUNTED AT 5'-0" A.F.F. 3/4" HOT WATER UP TO ABOVE CEILING.

VERIFICATION NOTE

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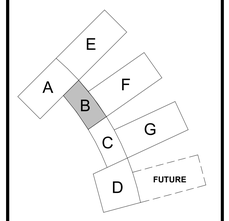
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KEY PLAN

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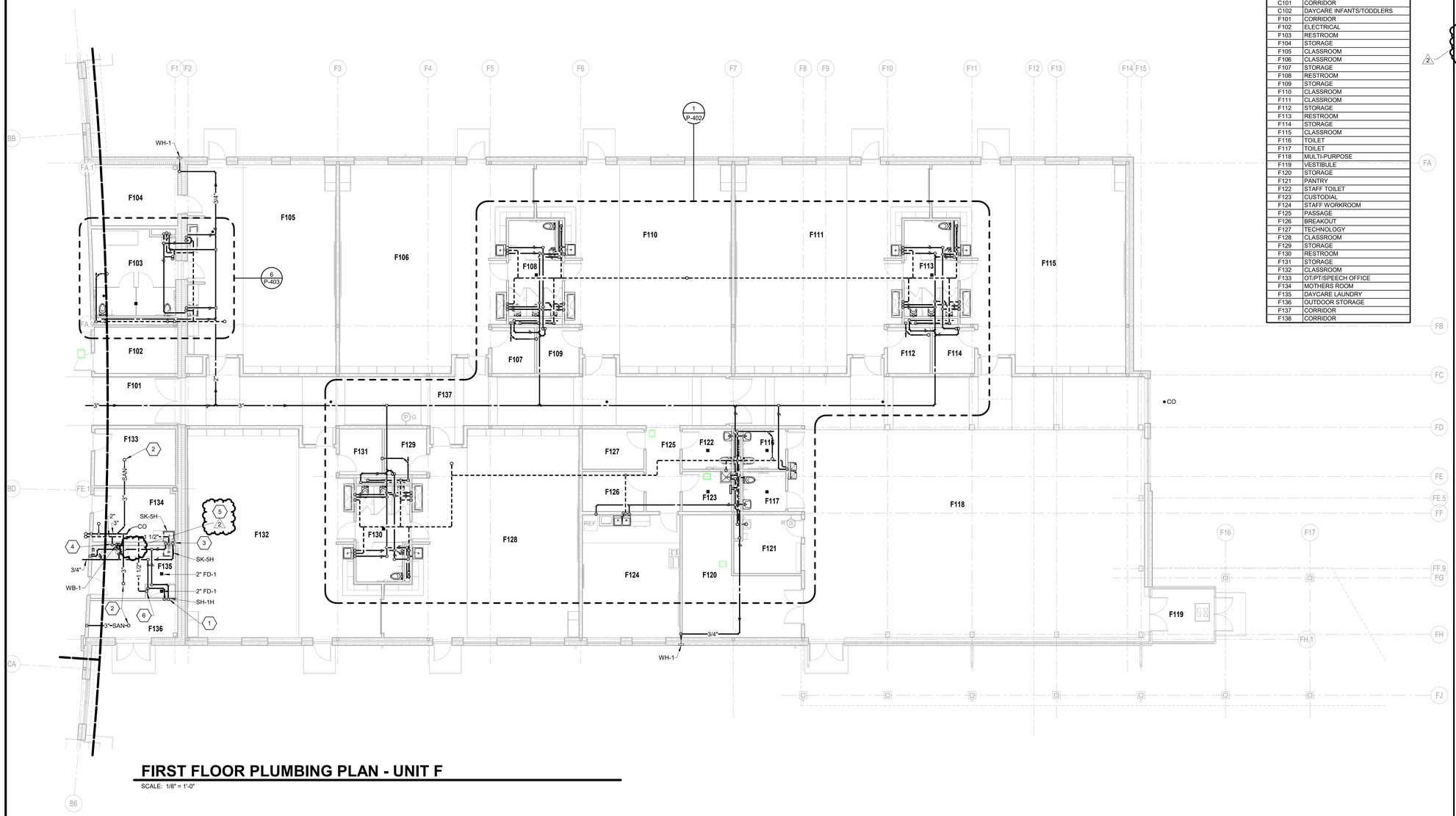
PROJECT MANAGER: JM
DRAWN BY: JE
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #1	07.09.2025

FIRST FLOOR PLUMBING PLAN - UNIT B

PL11B

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FIRST FLOOR PLUMBING PLAN - UNIT F

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

ROOM LEGEND

ROOM NO.	ROOM NAME
B101	CORRIDOR
B102	DAYCARE INFANTS/TODDLERS
B106	DAYCARE INFANTS/TODDLERS
B109	DAYCARE INFANTS/TODDLERS
B113	DAYCARE INFANTS/TODDLERS
C101	CORRIDOR
C102	DAYCARE INFANTS/TODDLERS
F101	CORRIDOR
F102	ELECTRICAL
F103	RESTROOM
F104	STORAGE
F105	CLASSROOM
F106	CLASSROOM
F107	STORAGE
F108	RESTROOM
F109	STORAGE
F110	CLASSROOM
F111	CLASSROOM
F112	STORAGE
F113	RESTROOM
F114	STORAGE
F115	CLASSROOM
F116	TOILET
F117	TOILET
F118	MULTI-PURPOSE
F119	VESTIBULE
F120	STORAGE
F121	PANTRY
F122	STAFF TOILET
F123	CUSTODIAL
F124	STAFF WORKROOM
F125	PASSAGE
F126	BREAKOUT
F127	TECHNOLOGY
F128	CLASSROOM
F129	STORAGE
F130	RESTROOM
F131	STORAGE
F132	CLASSROOM
F133	OT/PT/SPEECH OFFICE
F134	MOTHERS ROOM
F135	DAYCARE LAUNDRY
F136	OUTDOOR STORAGE
F137	CORRIDOR
F138	CORRIDOR

FIRST FLOOR UNIT F PLAN NOTES

1. 3/4" HOT AND COLD WATER DOWN TO SHOWER VALVE.
2. 3" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
3. 3/4" HOT AND COLD WATER DOWN. 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.
4. 3/4" HOT AND COLD WATER DOWN TO WASHER SUPPLY BOX. PROVIDE 2" P-TRAP ASSEMBLY. 3" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.
5. RELOCATE POINT-OF-USE ELECTRIC WATER HEATER AND ASSOCIATED PIPING TO ADJACENT WALL. REFER TO DRAWING PL11B FOR LOCATION.
6. 1 1/2" VENT FROM BELOW SLAB UP TO ABOVE CEILING.

VERIFICATION NOTE

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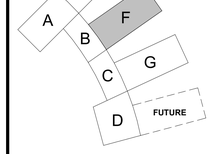
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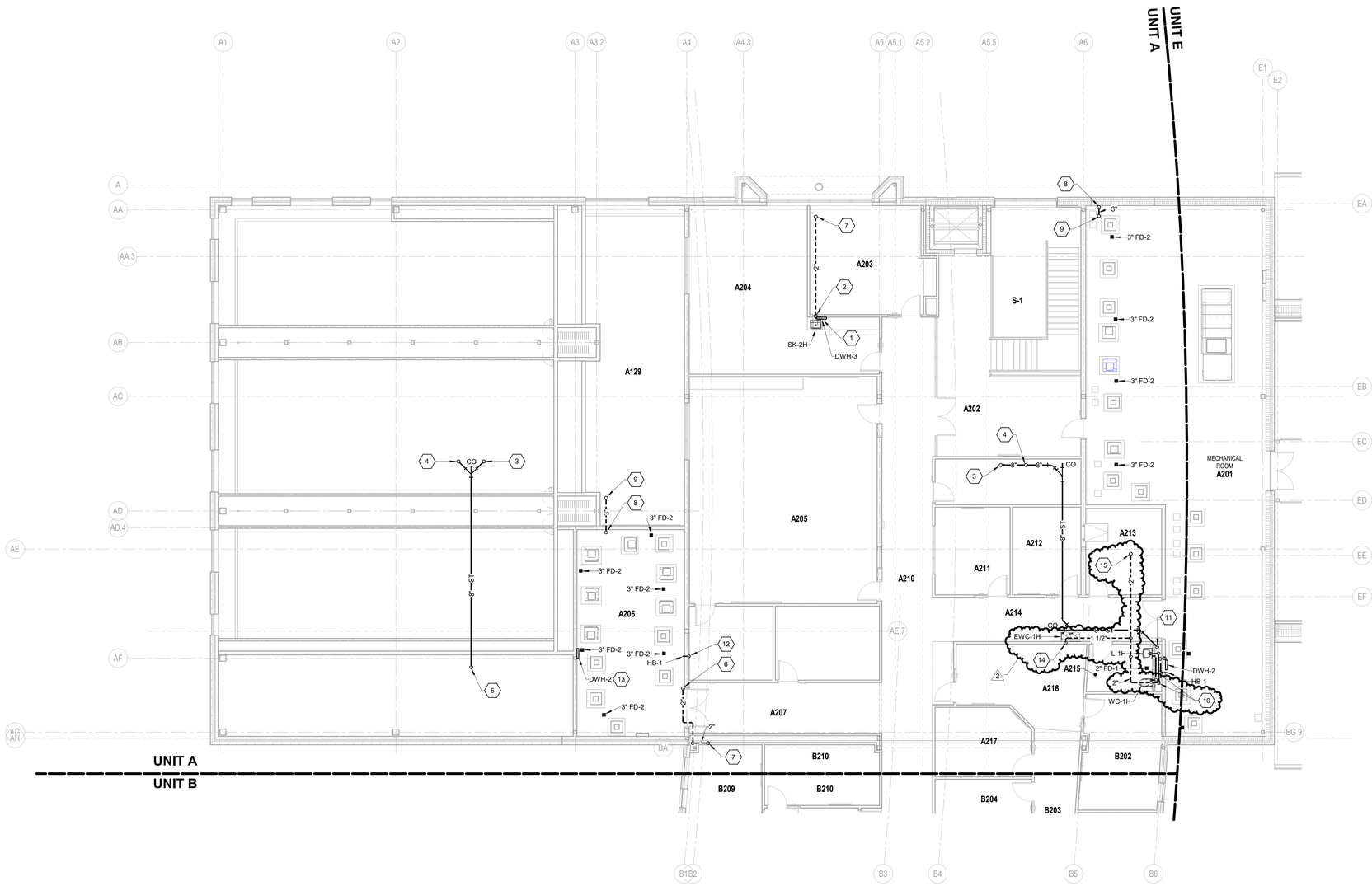
PROJECT MANAGER: JM
DRAWN BY: JE
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #1	07.09.2025

FIRST FLOOR PLUMBING PLAN - UNIT F

PL11F

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SECOND FLOOR PLUMBING PLAN - UNIT A - SECOND FLOOR

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

ROOM LEGEND

ROOM NO.	ROOM NAME
A129	CORRIDOR
A201	MECHANICAL ROOM
A202	LOBBY
A203	CONFERENCE ROOM
A204	CONFERENCE ROOM
A205	TEAM SAFETY
A206	MECHANICAL ROOM
A207	CORRIDOR
A208	SAFETY STORAGE
A209	STORAGE
A210	CORRIDOR
A211	HR CONFERENCE
A212	TOUCHDOWN OFFICE
A213	STORAGE
A214	CORRIDOR
A215	TOILET
A216	LOBBY
A217	OFFICE
A218	STORAGE
B202	DIRECTOR
B203	PASSAGE
B204	OFFICE
B205	OFFICE
B207	DIRECTOR OF SAFETY
B208	CORRIDOR
B209	DIRECTOR OF CURRICULUM
B210	CURRICULUM OFFICE
B211	CURRICULUM OFFICE
B213	LOBBY
E201	INTERSTITIAL SPACE
E-1	ELEVATOR
S-1	STAIR

SECOND FLOOR UNIT A PLAN NOTES

1 3/4" COLD WATER FROM BELOW. EXTEND 3/4" COLD WATER TO UNDERCOUNTER POINT-OF-USE ELECTRIC WATER HEATER. EXTEND HOT AND COLD WATER TO SINK AND MAKE FINAL CONNECTIONS AS REQUIRED.

2 2" WASTE DOWN TO FLOOR BELOW, 2" VENT UP TO ABOVE CEILING.

3 6" STORM FROM ROOF DRAIN ABOVE.

4 6" STORM FROM OVERFLOW ROOF DRAIN ABOVE.

5 8" STORM DOWN TO FLOOR BELOW.

6 2" VENT FROM BELOW UP INTO CEILING SPACE.

7 2" VENT UP TO 4" VENT THRU ROOF.

8 3" VENT FROM BELOW.

9 3" VENT UP TO 3" VENT THRU ROOF.

10 1 1/2" COLD WATER FROM BELOW. EXTEND 3/4" COLD WATER TO POINT-OF-USE ELECTRIC WATER HEATER LOCATED ON ADJACENT MECHANICAL ROOM WALL. EXTEND HOT AND COLD WATER TO LAVATORY. EXTEND COLD WATER TO WATER CLOSET. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER UPSTREAM OF VALVE CONNECTION. 4" WASTE DOWN, 2" VENT UP TO ABOVE CEILING.

11 8" STORM DOWN TO FLOOR BELOW.

12 3/4" COLD WATER FROM FLOOR BELOW.

13 3/4" COLD WATER FROM BELOW. EXTEND TO POINT-OF-USE ELECTRIC WATER HEATER. 3/4" HOT WATER DOWN TO FLOOR BELOW.

14 1 1/2" WASTE DOWN TO FLOOR BELOW, 1 1/2" VENT UP TO ABOVE CEILING.

15 2" VENT UP TO 4" VENT THRU ROOF.

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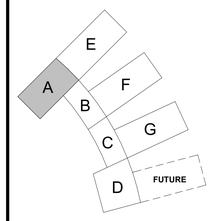
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PROJECT ISSUE DATE: 06.24.2025

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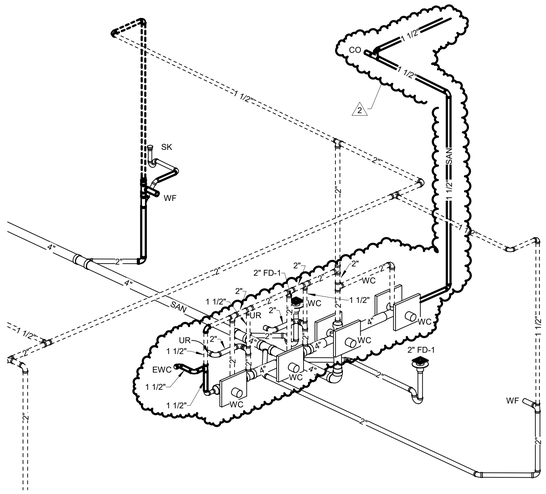
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SECOND FLOOR PLUMBING PLAN - UNIT A

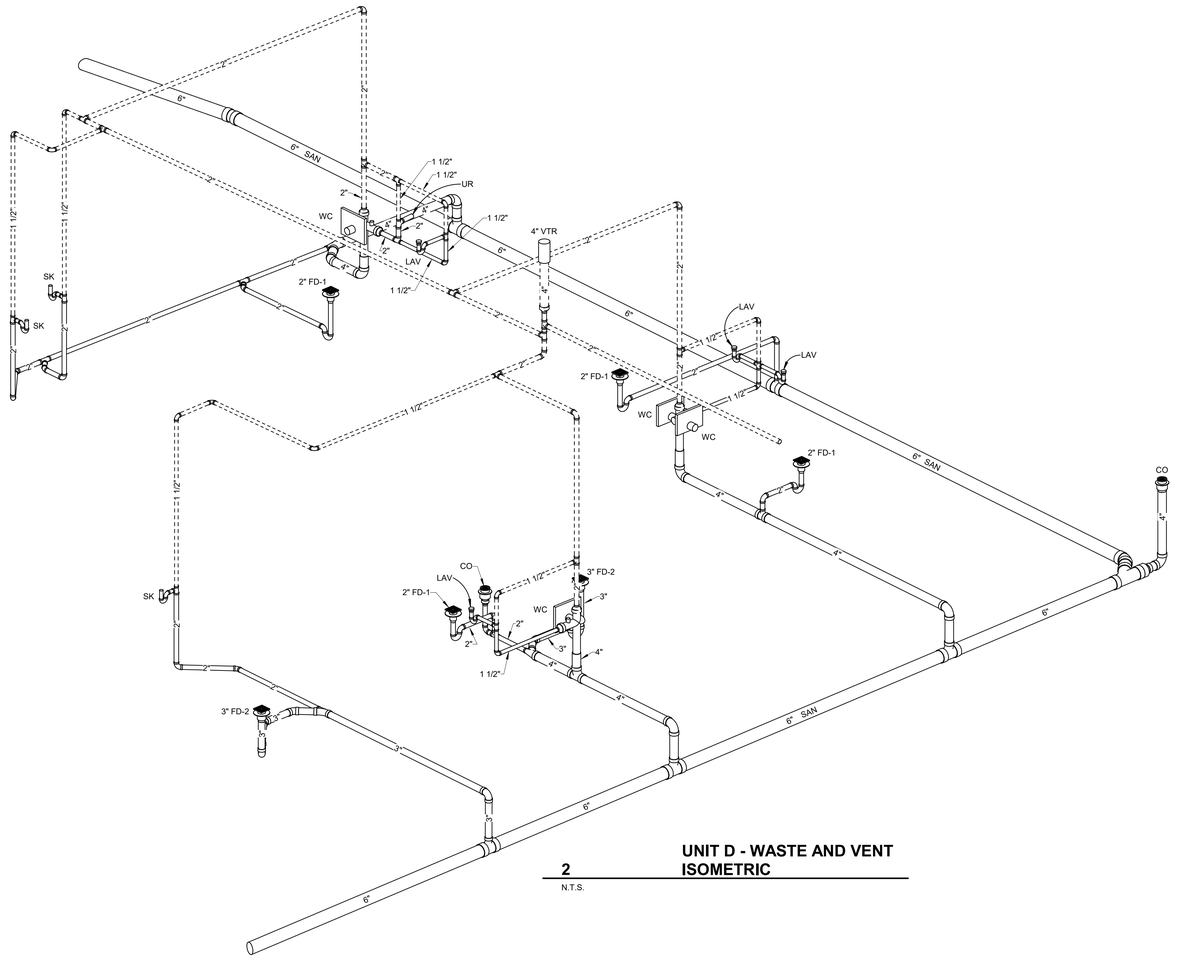
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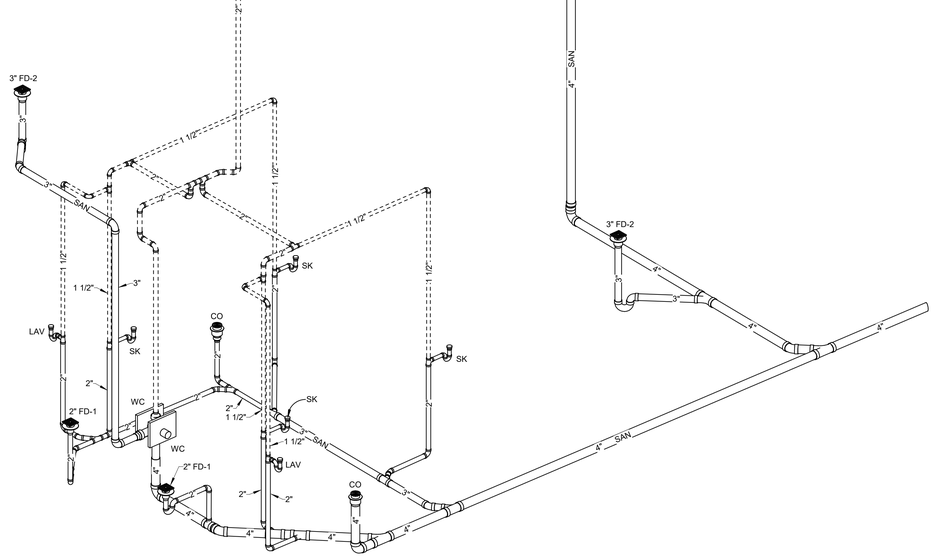
UNIT A - FIRST FLOOR
RESTROOMS A116 & A117
1 WASTE AND VENT ISOMETRIC

N.T.S.



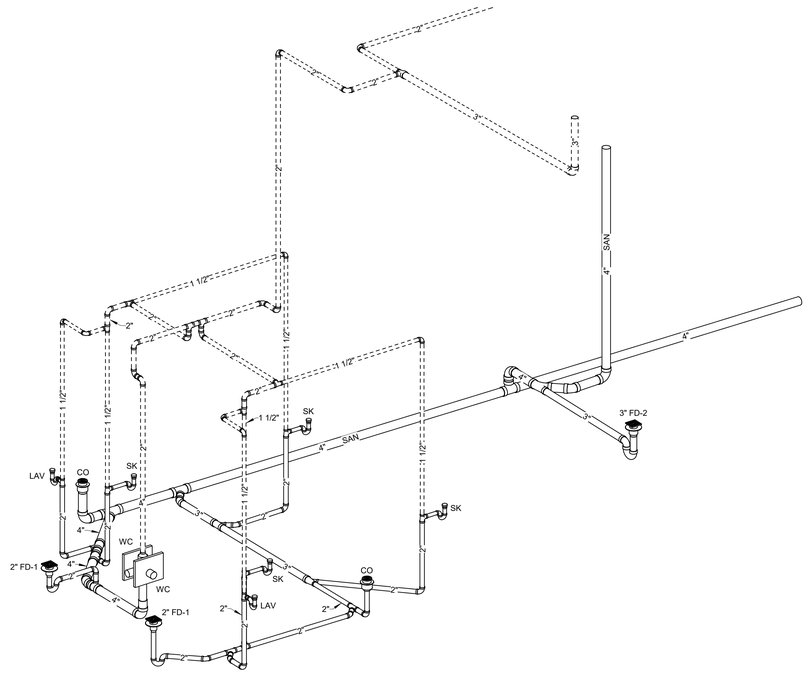
UNIT D - WASTE AND VENT
2 ISOMETRIC

N.T.S.



UNIT C - FIRST FLOOR
DAYCARE POD C109 & C113
3 WASTE AND VENT ISOMETRIC

N.T.S.



UNIT B - FIRST FLOOR
DAYCARE POD B109 & B113
4 WASTE AND VENT ISOMETRIC

N.T.S.

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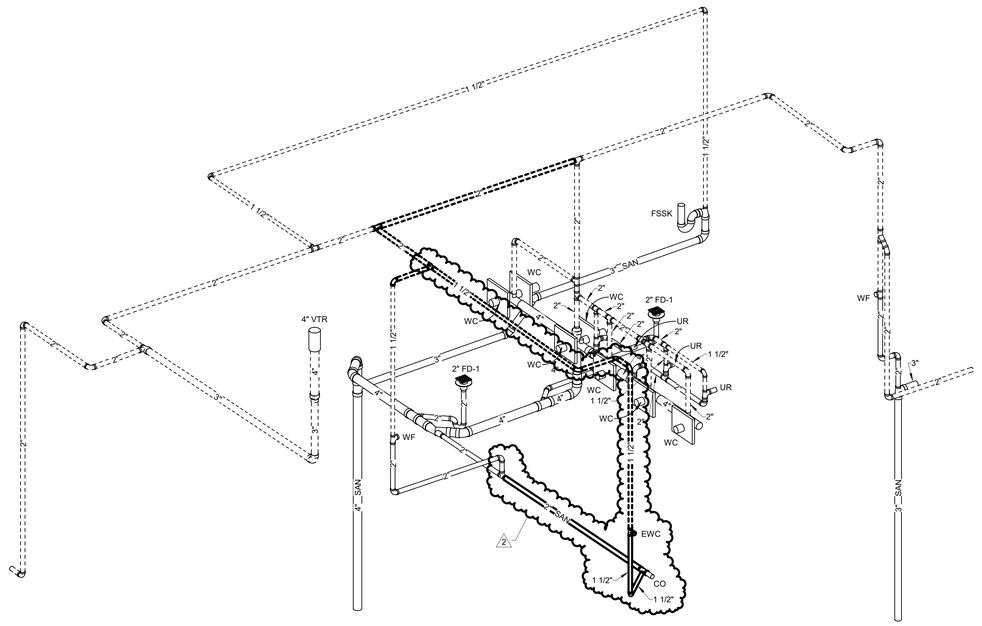
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PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

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WASTE AND VENT ISOMETRICS

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UNIT B - SECOND FLOOR
RESTROOMS B232 & B233
1 WASTE AND VENT ISOMETRIC
N.T.S.

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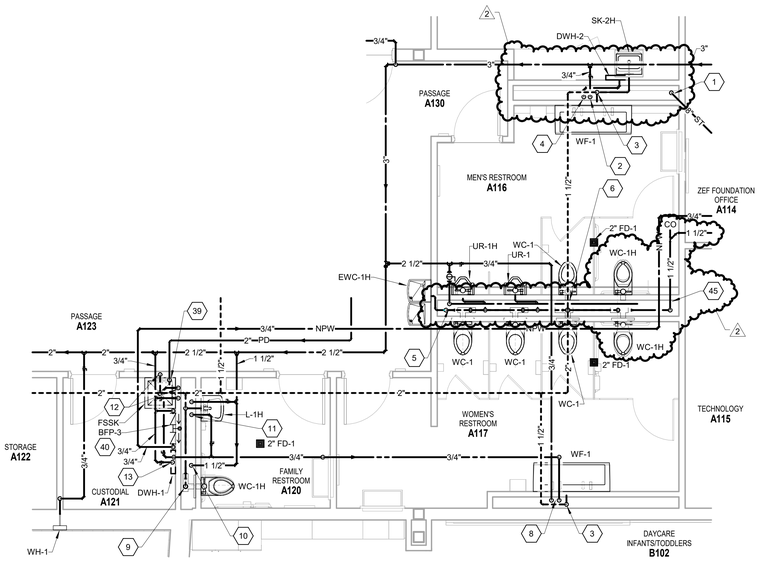
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DRAWN BY: JE
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #1	07.09.2025

WASTE AND VENT ISOMETRICS

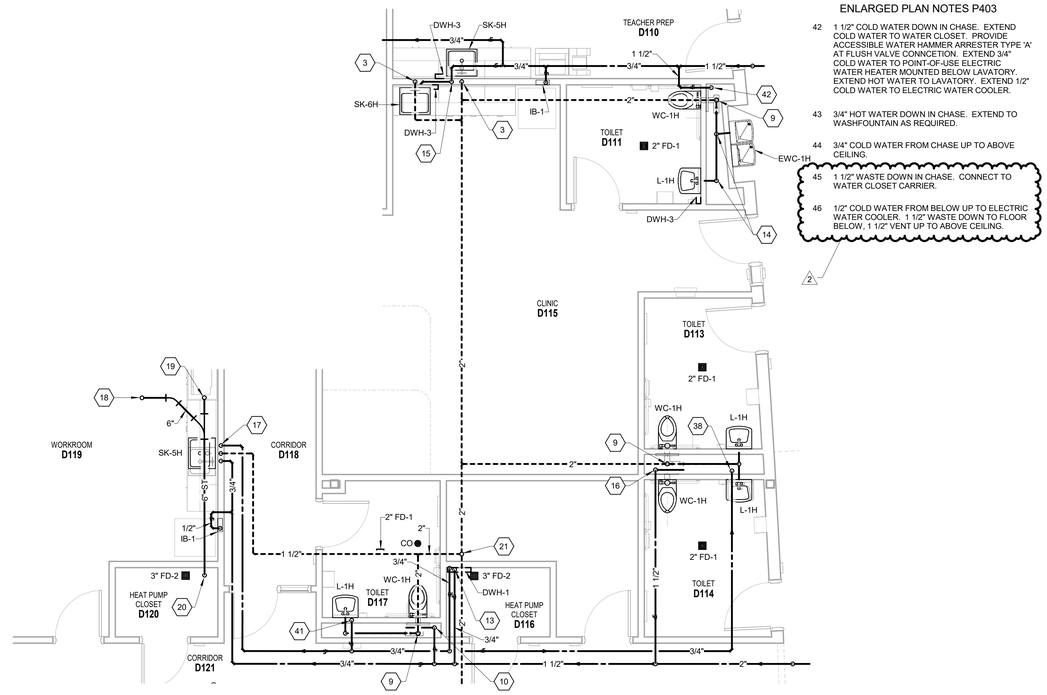
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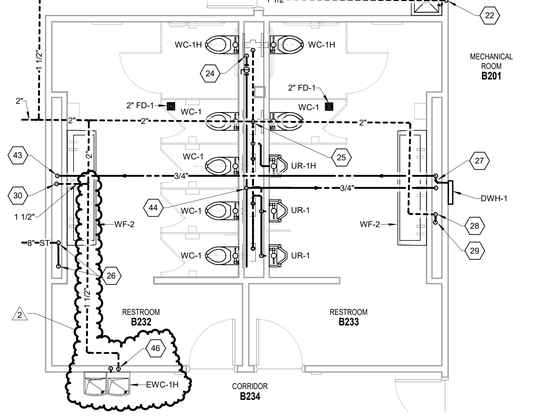
1 ENLARGED FIRST FLOOR PLUMBING PLAN - UNIT A

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



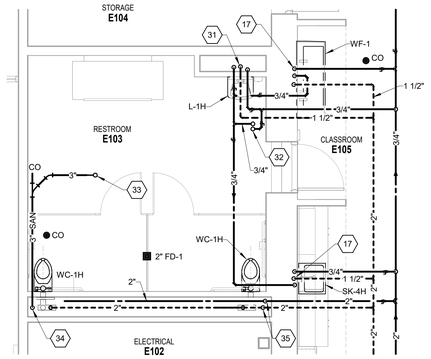
3 ENLARGED FIRST FLOOR PLUMBING PLAN - UNIT D

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



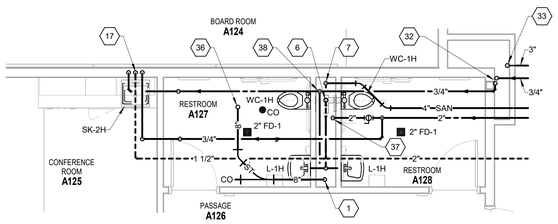
2 ENLARGED SECOND FLOOR RESTROOM PLUMBING PLAN - UNIT B

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



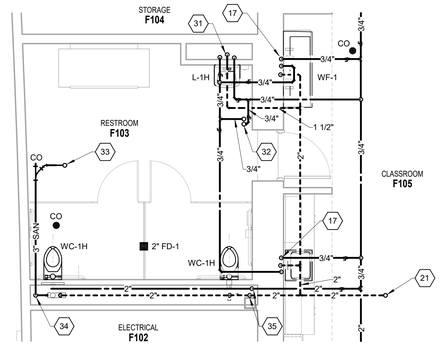
4 ENLARGED RESTROOM PLUMBING PLAN - UNIT E

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



5 ENLARGED RESTROOM A127 & A128 PLUMBING PLAN

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



6 ENLARGED RESTROOM PLUMBING PLAN - UNITS F & G

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

ENLARGED PLAN NOTES P403

42 1 1/2" COLD WATER DOWN IN CHASE. EXTEND COLD WATER TO WATER CLOSET. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'A' AT FLUSH VALVE CONNCETION. EXTEND 3/4" COLD WATER TO POINT-OF-USE ELECTRIC WATER HEATER MOUNTED BELOW LAVATORY. EXTEND HOT WATER TO LAVATORY. EXTEND 1/2" COLD WATER TO ELECTRIC WATER COOLER.

43 3/4" HOT WATER DOWN IN CHASE. EXTEND TO WASHFOUNTAIN AS REQUIRED.

44 3/4" COLD WATER FROM CHASE UP TO ABOVE CEILING.

45 1 1/2" WASTE DOWN IN CHASE. CONNECT TO WATER CLOSET CARRIER.

46 1/2" COLD WATER FROM BELOW UP TO ELECTRIC WATER COOLER. 1 1/2" WASTE DOWN TO FLOOR BELOW. 1 1/2" VENT UP TO ABOVE CEILING.

ENLARGED PLAN NOTES P403

1 8" STORM DOWN TO BELOW SLAB.

2 3/4" COLD WATER DOWN IN CHASE. EXTEND COLD WATER TO SINK AS REQUIRED. EXTEND 3/4" COLD WATER TO BELOW-COUNTER POINT-OF-USE ELECTRIC WATER HEATER. EXTEND 3/4" HOT WATER TO FIXTURES AS REQUIRED.

3 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

4 3/4" COLD WATER DOWN AND 3/4" HOT WATER EXTENDED FROM WATER HEATER TO FIXTURE.

5 2 1/2" COLD WATER DOWN IN CHASE. ROUTE FULL SIZE THRU ENTIRE LENGTH OF CHASE. EXTEND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'D' AT LAST FLUSH VALVE CONNECTION.

6 4" WASTE DOWN TO BELOW SLAB, 2" VENT UP TO ABOVE CEILING.

7 4" WASTE DOWN INTO CHASE. CONNECT TO WATER CLOSET CARRIER.

8 3/4" HOT AND COLD WATER DOWN IN CHASE. EXTEND TO FIXTURE AS REQUIRED.

9 4" WASTE DOWN TO BELOW SLAB, 2" VENT UP INTO CHASE.

10 1 1/2" COLD WATER DOWN IN CHASE. EXTEND COLD WATER TO WATER CLOSET. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'A' AT FLUSH VALVE CONNCETION.

11 1/2" HOT AND COLD WATER DOWN IN CHASE. EXTEND TO FIXTURE AS REQUIRED. 1 1/2" WASTE ROUTED TO WATER CLOSET CARRIER, 2" VENT FROM CHASE UP TO ABOVE CEILING.

12 3/4" HOT AND COLD WATER WITH SHUTOFF VALVES AND CHECK VALVES IN SUPPLIES DOWN TO MOP BASIN FAUCET. 1 1/2" VENT FROM BELOW SLAB UP TO ABOVE CEILING.

13 3/4" COLD WATER DOWN TO POINT-OF-USE ELECTRIC WATER HEATER. 3/4" HOT WATER UP TO ABOVE CEILING.

14 1 1/2" WASTE AND VENT WITHIN CHASE.

15 3/4" COLD WATER DOWN TO POINT-OF-USE ELECTRIC WATER HEATER. EXTEND HOT AND COLD WATER TO SINKS AS REQUIRED.

16 1 1/2" COLD WATER DOWN IN CHASE. EXTEND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'B' AT FLUSH VALVE CONNCETION.

17 3/4" HOT AND COLD WATER DOWN. 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

18 6" STORM FROM ROOF DRAIN ABOVE.

19 6" STORM FROM OVERFLOW ROOF DRAIN ABOVE.

20 6" STORM DOWN TO BELOW SLAB.

21 2" VENT UP TO 4" VENT THRU ROOF.

22 1 1/2" VENT FROM FLOOR BELOW UP TO ABOVE CEILING.

23 3/4" COLD WATER UP FROM FLOOR BELOW. EXTEND 3/4" COLD WATER TO MOP BASIN, HOSE BIBB AND POINT-OF-USE ELECTRIC WATER HEATER. EXTEND HOT WATER TO MOP BASIN FAUCET. PROVIDE SHUTOFF VALVES AND CHECK VALVES IN SUPPLIES TO MOP BASIN FAUCET.

24 2 1/2" COLD WATER FROM FLOOR BELOW UP INTO CHASE. ROUTE FULL SIZE THRU ENTIRE LENGTH OF CHASE. EXTEND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'D' AT LAST FLUSH VALVE CONNECTION.

25 4" WASTE DOWN TO FLOOR BELOW, 2" VENT UP INTO CHASE.

26 8" STORM DOWN IN CHASE. OFFSET TO CLEAR STEEL BELOW FLOOR SLAB. 8" STORM DOWN TO FLOOR BELOW.

27 3/4" COLD WATER DOWN TO POINT-OF-USE ELECTRIC WATER HEATER LOCATED ON ADJACENT MECHANICAL ROOM WALL. EXTEND 3/4" HOT AND COLD WATER TO WASHFOUNTAIN AS REQUIRED. 3/4" HOT WATER UP TO ABOVE CEILING.

28 2" WASTE DOWN TO FLOOR BELOW, 2" VENT UP TO ABOVE CEILING.

29 1 1/2" VENT FROM BELOW. CONNECT TO 2" VENT RISER.

30 2" WASTE DOWN TO FLOOR BELOW, 1 1/2" VENT UP TO ABOVE CEILING.

31 1/2" HOT AND COLD WATER DOWN. 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

32 3/4" COLD WATER UP, 3/4" HOT WATER FROM ABOVE.

33 3" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.

34 3" WASTE DOWN INTO CHASE. CONNECT TO WATER CLOSET CARRIER AS REQUIRED.

35 2" COLD WATER DOWN IN CHASE. ROUTE FULL SIZE THRU ENTIRE LENGTH OF CHASE. EXTEND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'B' AT LAST FLUSH VALVE CONNECTION. 2" VENT FROM CHASE UP TO ABOVE CEILING.

36 8" STORM FROM ABOVE.

37 1 1/2" COLD WATER DOWN IN CHASE. EXTEND COLD WATER TO EACH WATER CLOSET. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'B' AT FLUSH VALVE CONNCETION.

38 3/4" HOT WATER DOWN IN CHASE. EXTEND 1/2" HOT WATER TO EACH LAVATORY.

39 TERMINATE 2" PUMPED DISCHARGE OVER MOP BASIN. SUPPORT PIPE ALONG FACE OF WALL AS REQUIRED.

40 3/4" COLD WATER DOWN TO BACKFLOW PREVENTER. 3/4" NON-POTABLE WATER UP TO ABOVE CEILING. TERMINATE RELIEF PIPING OVER MOP BASIN WITH AIR GAP.

41 1/2" HOT WATER DOWN IN CHASE. EXTEND TO LAVATORY AS REQUIRED.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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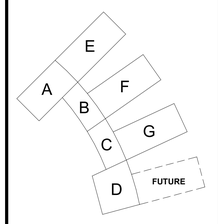
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ARCHITECT

FANNING HOWEY

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350 E NEW YORK ST #300, INDIANAPOLIS, IN 46204



KEY PLAN

N

ISSUED FOR BID

MARK Z. HOSE REGISTERED No. PE 12000301 STATE OF INDIANA PROFESSIONAL ENGINEER

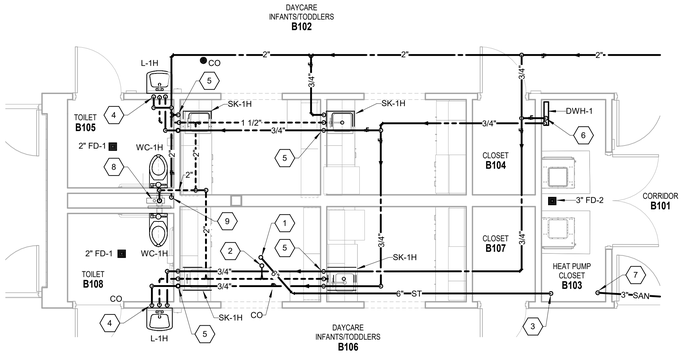
PROJECT MANAGER: JM
DRAWN BY: JE
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #1	07.09.2025

ENLARGED PLUMBING PLANS

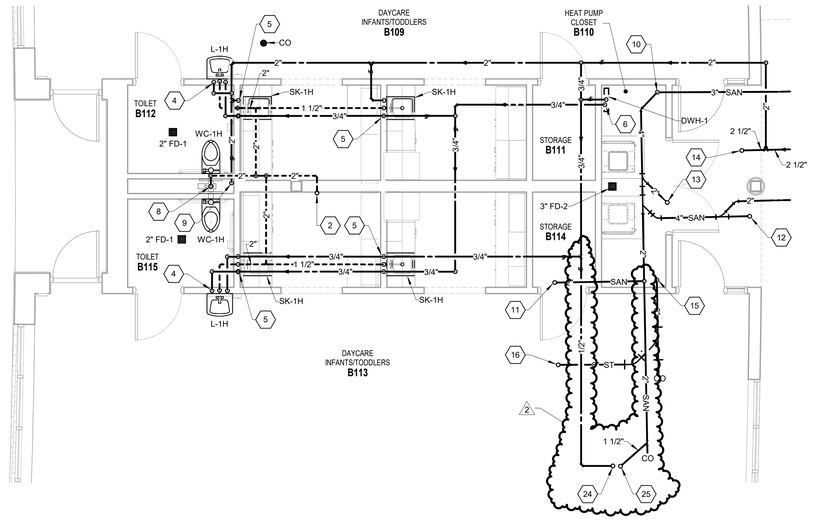
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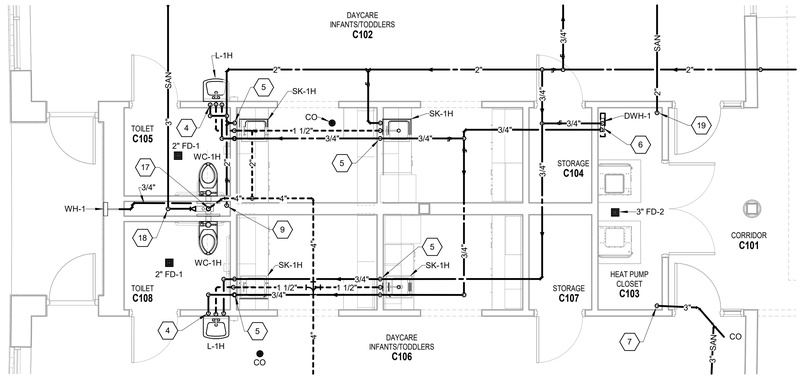
1 ENLARGED DAYCARE ROOMS PLUMBING PLAN NO. 1 - UNIT B

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



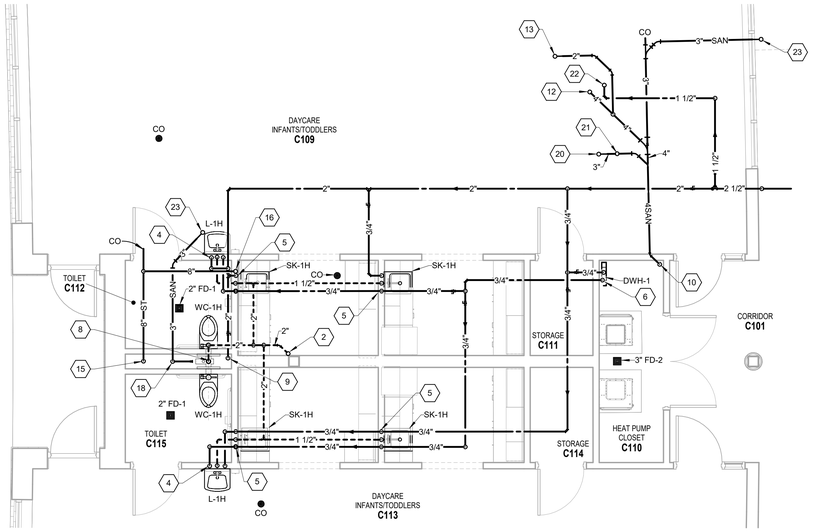
2 ENLARGED DAYCARE ROOMS PLUMBING PLAN NO. 2 - UNIT B

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



3 ENLARGED DAYCARE ROOMS PLUMBING PLAN NO. 1 - UNIT C

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



4 ENLARGED DAYCARE ROOMS PLUMBING PLAN NO. 2 - UNIT C

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

ENLARGED PLAN NOTES P404

1 6" STORM FROM ABOVE.

2 2" VENT UP TO FLOOR ABOVE.

3 6" STORM DOWN TO BELOW SLAB.

4 1/2" HOT AND COLD WATER DOWN. 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

5 3/4" HOT AND COLD WATER DOWN 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

6 3/4" COLD WATER DOWN TO POINT-OF-USE ELECTRIC WATER HEATER. 3/4" HOT WATER UP TO ABOVE CEILING.

7 3" WASTE DOWN TO BELOW SLAB.

8 4" WASTE DOWN TO BELOW SLAB, 2" VENT UP TO ABOVE CEILING.

9 2" COLD WATER DOWN IN CHASE. EXTEND COLD WATER TO WATER CLOSETS AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'B' AT FLUSH VALVE CONNCETION.

10 4" WASTE DOWN TO BELOW SLAB.

11 2" WASTE FROM ABOVE.

12 4" WASTE FROM ABOVE.

13 2" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.

14 2 1/2" COLD WATER UP TO FLOOR ABOVE.

15 8" STORM DOWN TO BELOW SLAB.

16 8" STORM FROM ABOVE.

17 4" WASTE DOWN TO BELOW SLAB, 4" VENT UP TO ABOVE CEILING.

18 3" WASTE DOWN INTO CHASE. CONNECT TO WATER CLOSET CARRIER AS REQUIRED.

19 2" WASTE DOWN TO BELOW SLAB.

20 3" WASTE WITH DEEP SEAL P-TRAP FROM MOP BASIN ABOVE.

21 1 1/2" VENT UP TO FLOOR ABOVE.

22 1 1/2" COLD WATER UP TO FLOOR ABOVE.

23 3" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.

24 1/2" COLD WATER UP TO FLOOR ABOVE.

25 1 1/2" WASTE FROM ABOVE.

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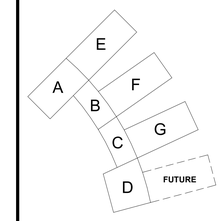
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KEY PLAN

N

ISSUED FOR BID

MARK Z. HOOF REGISTERED No. PE 12000001 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: JM
DRAWN BY: JE
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #1	07.09.2025

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

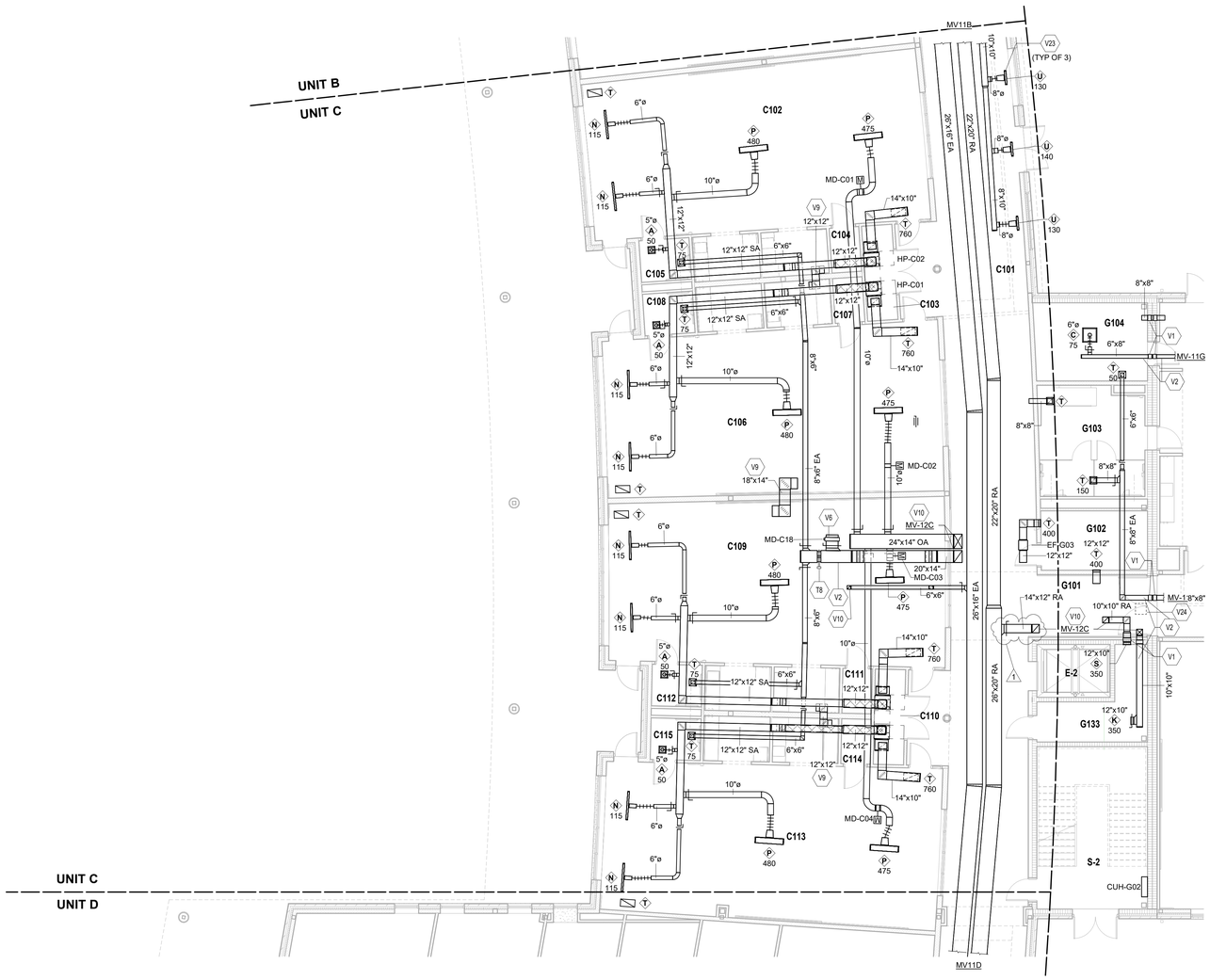
ENLARGED PLUMBING PLANS

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ROOM LEGEND - UNIT C

ROOM NO.	ROOM NAME	AREA (SF)
C101	CORRIDOR	1627 SF
C102	DAYCARE INFANTS/TODDLERS	1175 SF
C103	HEAT PUMP CLOSET	55 SF
C104	STORAGE	25 SF
C105	TOILET	40 SF
C106	DAYCARE INFANTS/TODDLERS	1175 SF
C107	STORAGE	25 SF
C108	TOILET	40 SF
C109	DAYCARE INFANTS/TODDLERS	1175 SF
C110	HEAT PUMP CLOSET	55 SF
C111	STORAGE	25 SF
C112	TOILET	40 SF
C113	DAYCARE INFANTS/TODDLERS	1116 SF
C114	STORAGE	25 SF
C115	TOILET	40 SF



FIRST FLOOR VENTILATION PLAN - UNIT C

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

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC., 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
I. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
J. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
K. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.

VENTILATION PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
T8	ELECTRONIC AIRFLOW MEASURING STATION MOUNTED IN DUCTWORK. STATION PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH UNIT MANUFACTURER.
V1	PROVIDE FIRE DAMPER IN WALL PENETRATION.
V2	MECHANICAL CONTRACTOR SHALL INSTALL AN ACCESS DOOR IN DUCTWORK TO ACCESS THE AIRFLOW MEASURING STATION AND/OR FIRE DAMPER. INSTALL GASKETING AROUND THE DOOR FOR AIR-TIGHT INSTALLATION. PROVIDE CONTINUOUS HINGE. REINFORCE DUCTWORK AS REQUIRED.
V6	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
V9	WALL OPENING LOCATED ABOVE THE CEILING. IF OPENING SIZE IS UNABLE TO BE ACCOMMODATED, THE SAME QUANTITY OF OPENING FREE AREA WILL BE ACCEPTABLE TO ACCOMMODATE AIR TRANSFER. COORDINATE EXACT LOCATION WITH ALL TRADES.
V10	DUCT ROUTED UP TO FLOOR ABOVE. COORDINATE WITH STRUCTURAL STEEL IN AREA.
V23	BALANCE DAMPER ACCESSIBLE THROUGH THE FACE OF THE GRILLE.
V24	PROVIDE ACCESS OPENING IN CEILING.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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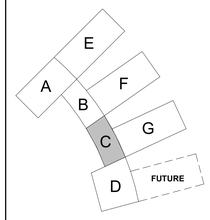
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ARCHITECT

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KEY PLAN N

ISSUED FOR BID

MARK Z. HOOF REGISTERED No. PE 12000301 STATE OF INDIANA PROFESSIONAL ENGINEER

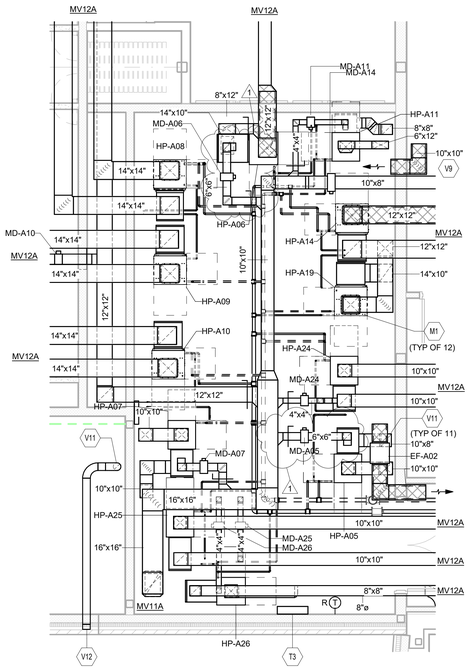
PROJECT MANAGER: JM
DRAWN BY: DJA
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR VENTILATION PLAN - UNIT C

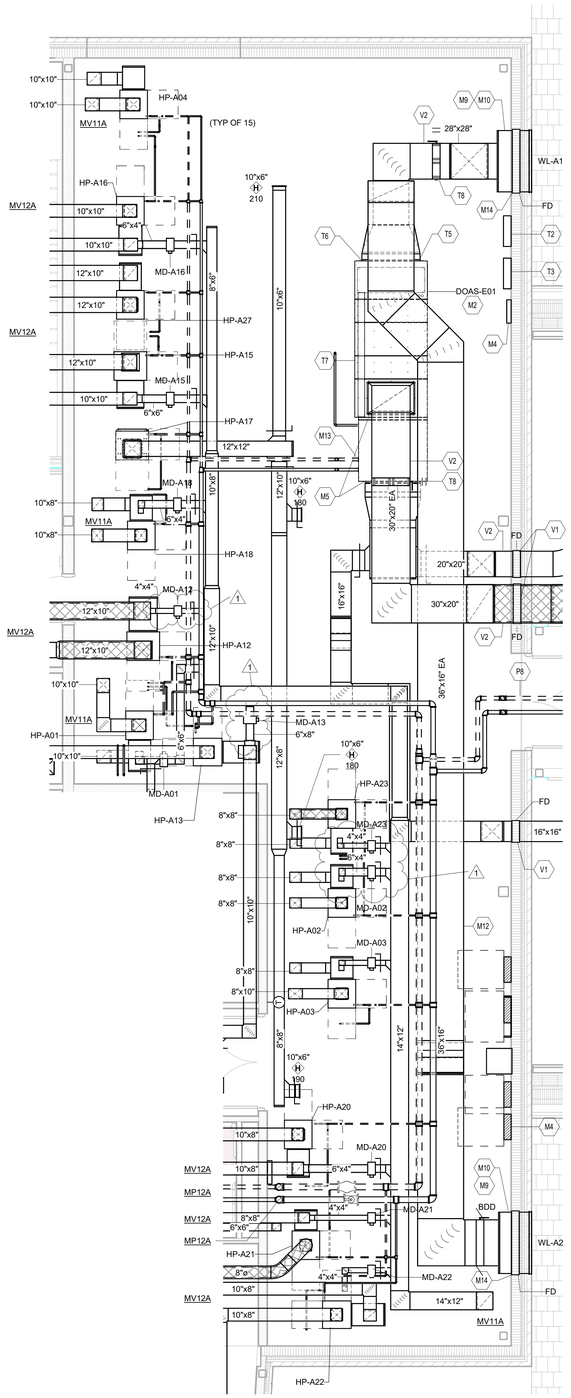
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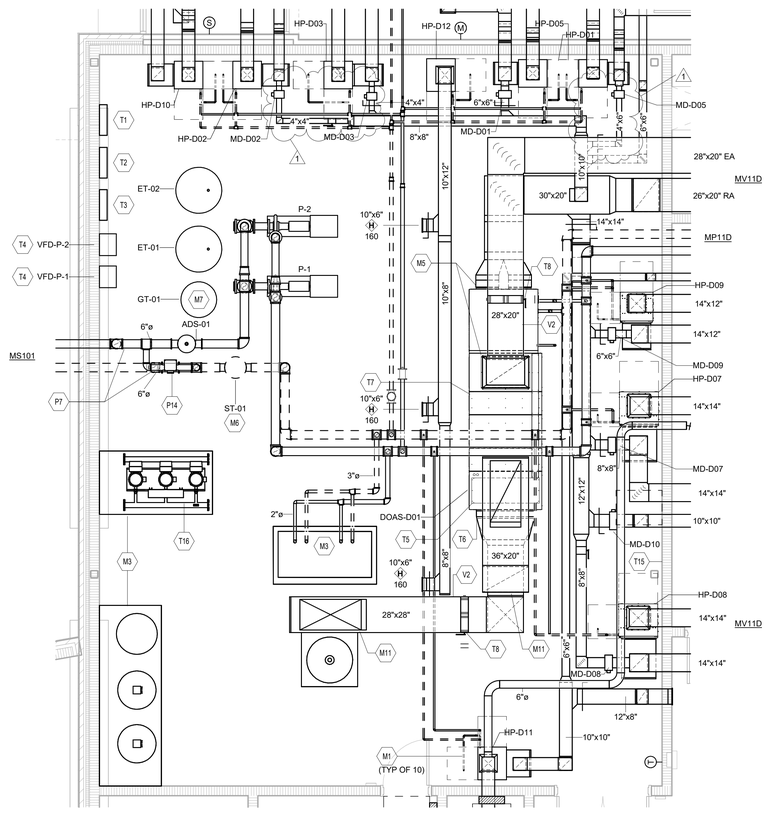
1 SECOND FLOOR SMALL MECHANICAL ROOM - UNIT A

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



2 SECOND FLOOR MECHANICAL ROOM - UNIT A

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



3 FIRST FLOOR MECHANICAL ROOM - UNIT D

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

MECHANICAL ROOM PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
I. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
J. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
K. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
L. REFER TO PIPING PLANS FOR PIPING DIMENSIONS; UNLESS NOTED OTHERWISE.
M. GROUND LOOP SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
N. REFER TO PIPING PLANS FOR PIPE SIZING; PIPING SHOWN FOR EXTRA COORDINATION.

MECHANICAL ROOM PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
M1	INSTALL EQUIPMENT ON 3.5" HIGH CONCRETE HOUSEKEEPING PAD.
M2	INSTALL EQUIPMENT ON 6" HIGH CONCRETE HOUSEKEEPING PAD.
M3	APPROXIMATE LOCATION OF PLUMBING EQUIPMENT. REFER TO DIVISION 22 DRAWINGS FOR THIS EQUIPMENT.
M4	APPROXIMATE LOCATION OF ELECTRICAL EQUIPMENT. REFER TO DIVISION 26 DRAWINGS FOR THIS EQUIPMENT.
M5	TRANSITION DUCTWORK AS REQUIRED TO MAKE FINAL CONNECTION TO AIR HANDLING UNIT.
M6	EXTEND DRAIN PIPING FULL SIZE FROM STRAINER TO NEAREST FLOOR DRAIN WITH SHUT-OFF VALVE.
M7	LOCATION OF GLYCOL FEED SYSTEM. FEED SYSTEM TO BE COMPLETE WITH ALL CONTROLS PREWIRED TO CONTROL THE FEED OF GLYCOL IN THE GEOTHERMAL WATER SYSTEM. COORDINATE ELECTRICAL REQUIREMENTS WITH DIVISION 26 ELECTRICAL CONTRACTOR.
M9	INSULATED SHEET METAL PLENUM MOUNTED BEHIND WALL LOUVER. TRANSITION BOTTOM OF DUCT AT A SLOPE DOWNWARD TO WALL LOUVER. SEAL ALL SEAMS AND EDGES WATER TIGHT. WRAP PLENUM WITH INSULATION. REFER TO DETAIL.
M10	INSTALL DRIP PAN UNDER WALL LOUVER. PAN SHALL BE SEALED WATER TIGHT. DRIP PAN TO EXTEND A MINIMUM OF 6" BEYOND DUCTWORK.
M11	INSTALL BACKDRAFT DAMPER IN VERTICAL DUCTWORK.
M12	WRAP EXHAUST DUCTWORK WITH INSULATION FROM AIR HANDLING UNIT TO ROOFTOP VENTILATOR/WALL LOUVER. INSTALL BACKDRAFT DAMPER IN DUCTWORK.
M13	INSTALL A 3-WAY MODULATING CONTROL VALVE AT THIS PIECE OF EQUIPMENT.
M14	PROVIDE STAINLESS STEEL FIRE DAMPER IN EXTERIOR WALL PENETRATION.
P7	6" GROUND LOOP SUPPLY AND RETURN PIPING FROM WELL FIELD. EXTEND GROUND LOOP PIPING FROM BELOW GROUND THROUGH FINISHED FLOOR AND TERMINATE 12" ABOVE FINISHED FLOOR WITH SHUT OFF VALVES AND FLANGES FOR TRANSITION FROM POLYETHELYNE PIPING TO STEEL PIPING BY WELL FIELD CONTRACTOR. HVAC CONTRACTOR SHALL CONTINUE WITH STEEL PIPING FROM VALVES PROVIDED BY WELL FIELD CONTRACTOR. COORDINATE REQUIREMENT BY ALL OTHER TRADES.
P8	PROVIDE WALL SLEEVES FOR ALL PIPING PENETRATIONS THROUGH FIRE WALLS. ENSURE BOTH ENDS OF THE WALL SLEEVES ARE SEALED WATERTIGHT USING APPROVED FIRE STOP MATERIALS.
P14	INSTALL MODULATING BYPASS CONTROL VALVE IN THIS GENERAL LOCATION
T1	APPROXIMATE LOCATION OF TEMPERATURE CONTROL SYSTEM BUILDING CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T2	APPROXIMATE LOCATION OF AIR HANDLING UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T4	TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE INTERCONNECTING WIRING BETWEEN VARIABLE FREQUENCY CONTROLLER(S) AND EQUIPMENT.
T5	OUTSIDE AIR CONTROL DAMPERS FACTORY MOUNTED IN AIR HANDLING UNIT. DAMPER OPERATORS PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR.
T6	EXHAUST AIR CONTROL DAMPERS FACTORY MOUNTED IN AIR HANDLING UNIT. DAMPER OPERATORS PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR.
T7	ENERGY RECOVERY WHEEL BYPASS DAMPERS FACTORY MOUNTED IN AIR HANDLING UNIT. DAMPER OPERATORS PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR.
T8	ELECTRONIC AIRFLOW MEASURING STATION MOUNTED IN DUCTWORK. STATION PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH UNIT MANUFACTURER.
T15	LOCATION OF TEMPERATURE CONTROL SYSTEM AND PERSONAL COMPUTER WORKSTATION PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR.
T16	COORDIANTE WITH DIVISION 22 CONTRACTOR; DOMESTIC BOOSTER PUMP TO PROVIDED WITH BACNET CARD TO MONITOR BOOSTER PUMP VIA BMS.
V1	PROVIDE FIRE DAMPER IN WALL PENETRATION.
V2	MECHANICAL CONTRACTOR SHALL INSTALL AN ACCESS DOOR IN DUCTWORK TO ACCESS THE AIRFLOW MEASURING STATION AND/OR FIRE DAMPER. INSTALL GASKETING AROUND THE DOOR FOR AIR-TIGHT INSTALLATION. PROVIDE CONTINUOUS HINGE. REINFORCE DUCTWORK AS REQUIRED.
V9	WALL OPENING LOCATED ABOVE THE CEILING. IF OPENING SIZE IS UNABLE TO BE ACCOMMODATED, THE SAME QUANTITY OF OPENING FREE AREA WILL BE ACCEPTABLE TO ACCOMMODATE AIR TRANSFER. COORDINATE EXACT LOCATION WITH ALL TRADES.
V11	DUCT ROUTED DOWN TO FLOOR BELOW. COORDINATE WITH STRUCTURAL STEEL IN AREA.
V12	TERMINATE DUCT WITH PREFABRICATED DRYER VENT WITH INTEGRAL DAMPER SIMILAR TO DryerWallVent BY INOVATE. STANDARD COLOR TO BE SELECTED BY THE ARCHITECT.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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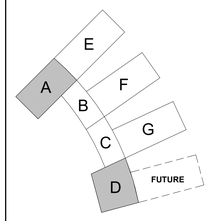
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KEY PLAN

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ISSUED FOR BID

MARK Z. HOPE REGISTERED No. PE 12200201 STATE OF INDIANA PROFESSIONAL ENGINEER

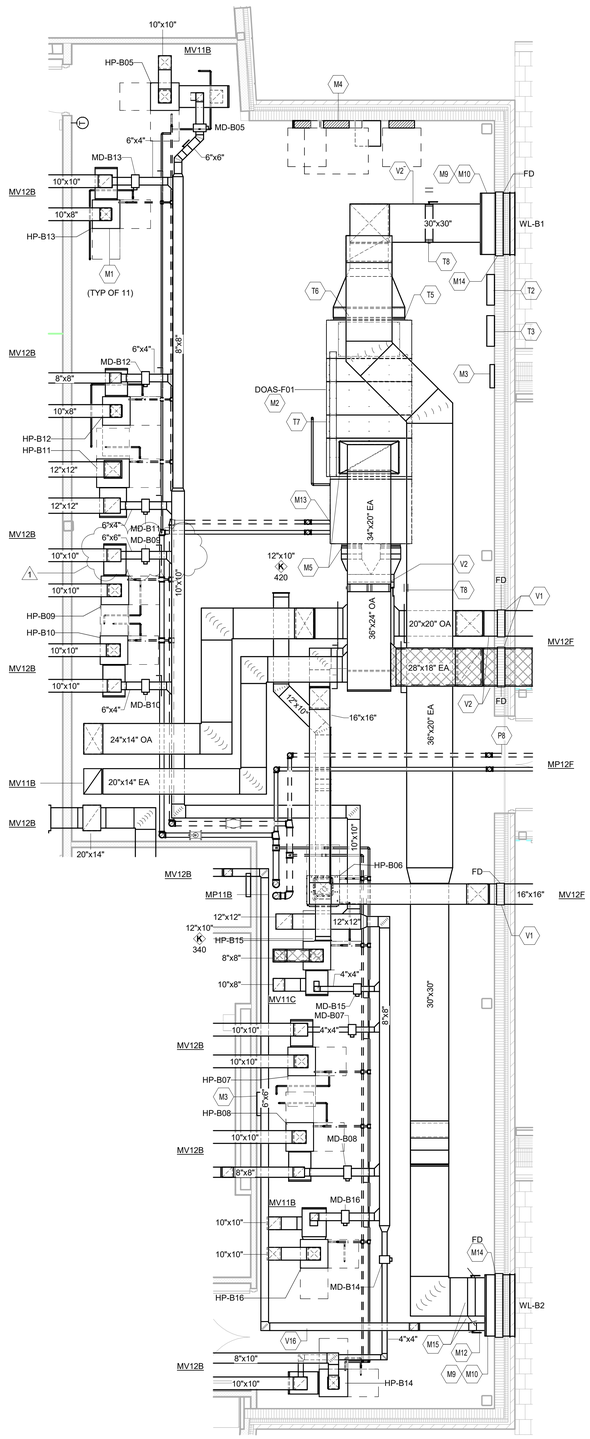
PROJECT MANAGER: JM
DRAWN BY: DJA
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

MECHANICAL ENLARGED PLANS

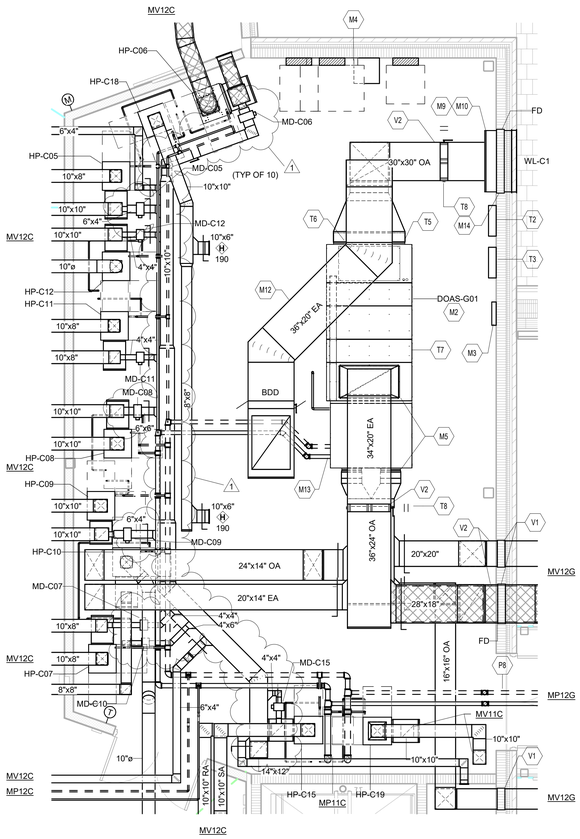
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2 SECOND FLOOR MECHANICAL ROOM - UNIT B

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



1 SECOND FLOOR MECHANICAL ROOM - UNIT C

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

MECHANICAL ROOM PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
I. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
J. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
K. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
L. REFER TO PIPING PLANS FOR PIPING DIMENSIONS; UNLESS NOTED OTHERWISE.
M. GROUND LOOP SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
N. REFER TO PIPING PLANS FOR PIPE SIZING; PIPING SHOWN FOR EXTRA COORDINATION.

MECHANICAL ROOM PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
M1	INSTALL EQUIPMENT ON 3.5" HIGH CONCRETE HOUSEKEEPING PAD.
M2	INSTALL EQUIPMENT ON 6" HIGH CONCRETE HOUSEKEEPING PAD.
M3	APPROXIMATE LOCATION OF PLUMBING EQUIPMENT. REFER TO DIVISION 22 DRAWINGS FOR THIS EQUIPMENT.
M4	APPROXIMATE LOCATION OF ELECTRICAL EQUIPMENT. REFER TO DIVISION 26 DRAWINGS FOR THIS EQUIPMENT.
M5	TRANSITION DUCTWORK AS REQUIRED TO MAKE FINAL CONNECTION TO AIR HANDLING UNIT.
M9	INSULATED SHEET METAL PLENUM MOUNTED BEHIND WALL LOUVER. TRANSITION BOTTOM OF DUCT AT A SLOPE DOWNWARD TO WALL LOUVER. SEAL ALL SEAMS AND EDGES WATER TIGHT. WRAP PLENUM WITH INSULATION. REFER TO DETAIL.
M10	INSTALL DRIP PAN UNDER WALL LOUVER. PAN SHALL BE SEALED WATER TIGHT. DRIP PAN TO EXTEND A MINIMUM OF 6" BEYOND DUCTWORK.
M12	WRAP EXHAUST DUCTWORK WITH INSULATION FROM AIR HANDLING UNIT TO ROOFTOP VENTILATOR/WALL LOUVER. INSTALL BACKDRAFT DAMPER IN DUCTWORK.
M13	INSTALL A 3-WAY MODULATING CONTROL VALVE AT THIS PIECE OF EQUIPMENT.
M14	PROVIDE STAINLESS STEEL FIRE DAMPER IN EXTERIOR WALL PENETRATION.
M15	INSTALL BACKDRAFT DAMPER IN DUCTWORK.
P8	PROVIDE WALL SLEEVES FOR ALL PIPING PENETRATIONS THROUGH FIRE WALLS. ENSURE BOTH ENDS OF THE WALL SLEEVES ARE SEALED WATERTIGHT USING APPROVED FIRE STOP MATERIALS.
T2	APPROXIMATE LOCATION OF AIR HANDLING UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T5	OUTSIDE AIR CONTROL DAMPERS FACTORY MOUNTED IN AIR HANDLING UNIT. DAMPER OPERATORS PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR.
T6	EXHAUST AIR CONTROL DAMPERS FACTORY MOUNTED IN AIR HANDLING UNIT. DAMPER OPERATORS PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR.
T7	ENERGY RECOVERY WHEEL BYPASS DAMPERS FACTORY MOUNTED IN AIR HANDLING UNIT. DAMPER OPERATORS PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR.
T8	ELECTRONIC AIRFLOW MEASURING STATION MOUNTED IN DUCTWORK. STATION PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH UNIT MANUFACTURER.
V1	PROVIDE FIRE DAMPER IN WALL PENETRATION.
V2	MECHANICAL CONTRACTOR SHALL INSTALL AN ACCESS DOOR IN DUCTWORK TO ACCESS THE AIRFLOW MEASURING STATION AND/OR FIRE DAMPER. INSTALL GASKETING AROUND THE DOOR FOR AIR-TIGHT INSTALLATION. PROVIDE CONTINUOUS HINGE. REINFORCE DUCTWORK AS REQUIRED.
V16	WRAP DUCTWORK FROM EXHAUST FAN TO WALL LOUVER.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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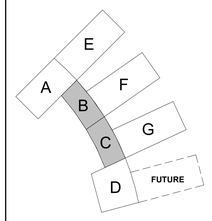
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KEY PLAN

N

ISSUED FOR BID

MARK Z. HOSE REGISTERED No. PE 12006101 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: JM
DRAWN BY: DJA
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

MECHANICAL ENLARGED PLANS

M-402

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23.33.00 - MODULATING MOTORIZED DAMPER SCHEDULE

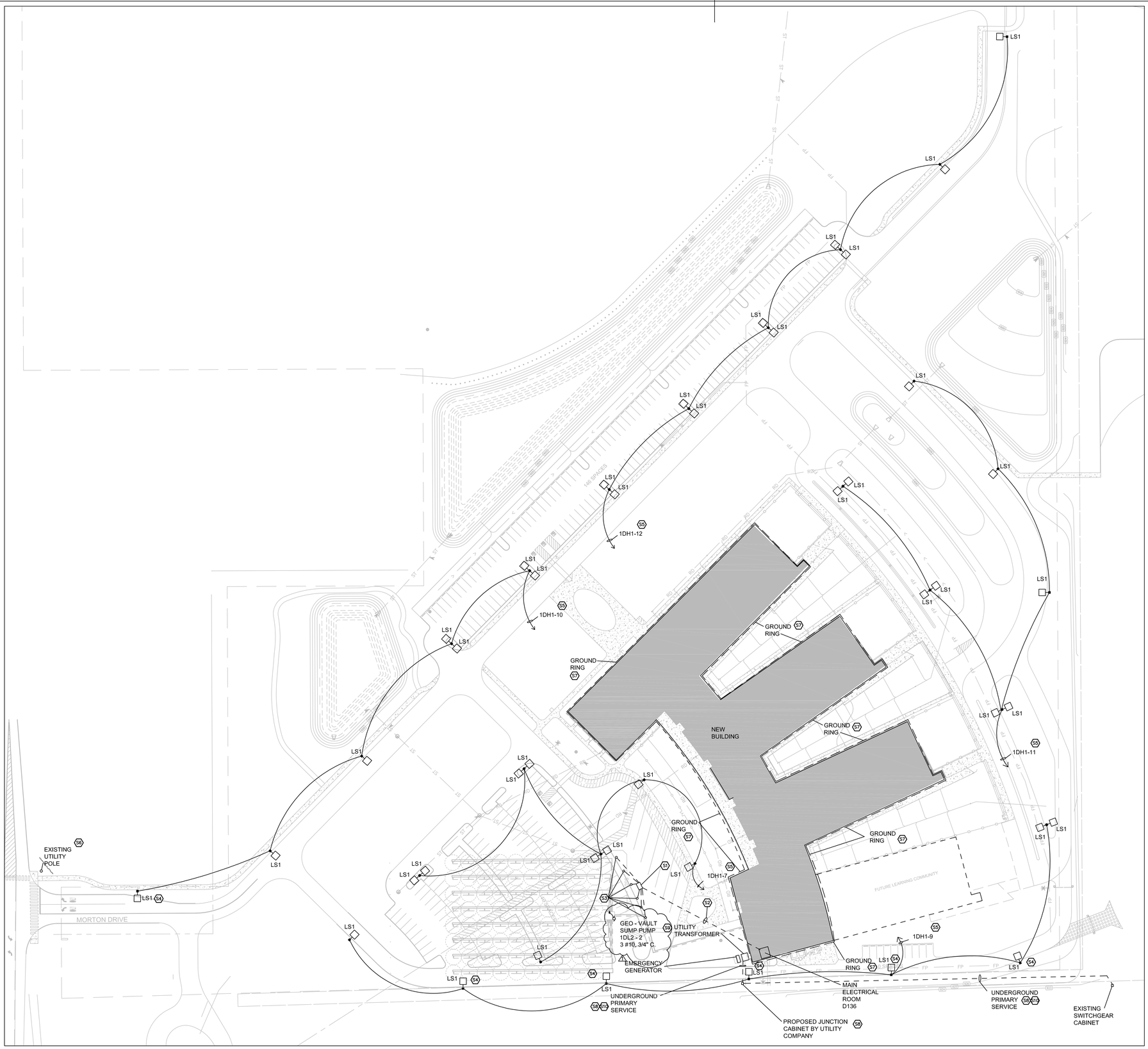
MARK	AIR FLOW	OVERALL SIZE	SYSTEM TYPE	NOTES
MD-A01	125 CFM	6" x 6"	Outdoor Air (OA)	1
MD-A02	80 CFM	6" x 4"	Outdoor Air (OA)	1
MD-A03	45 CFM	4" x 4"	Outdoor Air (OA)	1
MD-A05	125 CFM	6" x 6"	Outdoor Air (OA)	1
MD-A06	105 CFM	6" x 6"	Outdoor Air (OA)	1
MD-A07	145 CFM	6" x 8"	Outdoor Air (OA)	1
MD-A08	250 CFM	8"	Return Air (RA)	1
MD-A09	250 CFM	8"	Return Air (RA)	1
MD-A10	250 CFM	8"	Return Air (RA)	1
MD-A11	55 CFM	4" x 4"	Outdoor Air (OA)	1
MD-A12	55 CFM	4" x 4"	Return Air (RA)	1
MD-A13	170 CFM	6" x 8"	Outdoor Air (OA)	1
MD-A14	370 CFM	10" x 8"	Return Air (RA)	1
MD-A15	105 CFM	6" x 6"	Outdoor Air (OA)	1
MD-A16	85 CFM	6" x 4"	Outdoor Air (OA)	1
MD-A18	90 CFM	6" x 4"	Outdoor Air (OA)	1
MD-A20	70 CFM	6" x 4"	Outdoor Air (OA)	1
MD-A21	25 CFM	4" x 4"	Outdoor Air (OA)	1
MD-A22	40 CFM	4" x 4"	Outdoor Air (OA)	1
MD-A23	40 CFM	4" x 4"	Outdoor Air (OA)	1
MD-A24	65 CFM	4" x 4"	Outdoor Air (OA)	1
MD-A25	40 CFM	4" x 4"	Outdoor Air (OA)	1
MD-A26	25 CFM	4" x 4"	Outdoor Air (OA)	1
MD-B01	500 CFM	10"	Outdoor Air (OA)	1
MD-B02	475 CFM	10"	Outdoor Air (OA)	1
MD-B03	475 CFM	10"	Outdoor Air (OA)	1
MD-B04	475 CFM	10"	Outdoor Air (OA)	1
MD-B05	130 CFM	6" x 6"	Outdoor Air (OA)	1
MD-B07	25 CFM	4" x 4"	Outdoor Air (OA)	1
MD-B08	75 CFM	6" x 4"	Outdoor Air (OA)	1
MD-B09	110 CFM	6" x 6"	Outdoor Air (OA)	1
MD-B10	70 CFM	6" x 4"	Outdoor Air (OA)	1
MD-B11	65 CFM	6" x 4"	Outdoor Air (OA)	1
MD-B12	90 CFM	6" x 4"	Outdoor Air (OA)	1
MD-B13	75 CFM	6" x 4"	Outdoor Air (OA)	1
MD-B14	50 CFM	4" x 4"	Outdoor Air (OA)	1
MD-B15	50 CFM	4" x 4"	Outdoor Air (OA)	1
MD-B16	130 CFM	6" x 6"	Outdoor Air (OA)	1
MD-B17	1400 CFM	16" x 14"	Exhaust Air (EA)	1
MD-B18	1210 CFM	16" x 10"	Exhaust Air (EA)	1
MD-C01	475 CFM	10"	Outdoor Air (OA)	1
MD-C02	475 CFM	10"	Outdoor Air (OA)	1
MD-C03	475 CFM	10"	Outdoor Air (OA)	1
MD-C04	475 CFM	10"	Outdoor Air (OA)	1
MD-C05	95 CFM	6" x 4"	Outdoor Air (OA)	1
MD-C06	185 CFM	8" x 6"	Outdoor Air (OA)	1
MD-C07	40 CFM	4" x 4"	Outdoor Air (OA)	1
MD-C08	115 CFM	6" x 6"	Return Air (RA)	1
MD-C09	100 CFM	6" x 4"	Outdoor Air (OA)	1
MD-C10	90 CFM	4" x 6"	Outdoor Air (OA)	1
MD-C11	55 CFM	4" x 4"	Outdoor Air (OA)	1
MD-C12	35 CFM	4" x 4"	Outdoor Air (OA)	1
MD-C13	60 CFM	4" x 4"	Outdoor Air (OA)	1
MD-C14	50 CFM	4" x 4"	Outdoor Air (OA)	1
MD-C15	45 CFM	4" x 4"	Return Air (RA)	1
MD-C16	35 CFM	4" x 4"	Outdoor Air (OA)	1
MD-C17	40 CFM	4" x 4"	Outdoor Air (OA)	1
MD-C18	1400 CFM	20" x 14"	Exhaust Air (EA)	2
MD-D01	115 CFM	6" x 6"	Outdoor Air (OA)	1
MD-D02	40 CFM	4" x 4"	Outdoor Air (OA)	1
MD-D03	60 CFM	4" x 4"	Outdoor Air (OA)	1
MD-D04	35 CFM	4" x 4"	Outdoor Air (OA)	1
MD-D05	95 CFM	4" x 6"	Outdoor Air (OA)	1
MD-D06	55 CFM	4" x 4"	Outdoor Air (OA)	1
MD-D07	290 CFM	8" x 8"	Outdoor Air (OA)	3
MD-D08	290 CFM	8" x 8"	Outdoor Air (OA)	3
MD-D09	205 CFM	6" x 6"	Outdoor Air (OA)	1
MD-D10	500 CFM	10" x 10"	Return Air (RA)	4
MD-E01	435 CFM	10"	Outdoor Air (OA)	1
MD-E02	460 CFM	10"	Outdoor Air (OA)	1
MD-E03	460 CFM	10"	Outdoor Air (OA)	1
MD-E04	460 CFM	10"	Outdoor Air (OA)	1
MD-E05	460 CFM	10"	Outdoor Air (OA)	1
MD-E06	460 CFM	10"	Outdoor Air (OA)	1
MD-E07	460 CFM	10"	Outdoor Air (OA)	1
MD-E08	130 CFM	6"	Outdoor Air (OA)	1
MD-E09	690 CFM	12" x 12"	Outdoor Air (OA)	1
MD-E10	1840 CFM	16" x 16"	Exhaust Air (EA)	2
MD-F01	435 CFM	10"	Outdoor Air (OA)	1
MD-F02	460 CFM	10"	Outdoor Air (OA)	1
MD-F03	460 CFM	10"	Outdoor Air (OA)	1
MD-F04	460 CFM	10"	Outdoor Air (OA)	1
MD-F05	460 CFM	10"	Outdoor Air (OA)	1
MD-F06	460 CFM	10"	Outdoor Air (OA)	1
MD-F07	460 CFM	10"	Outdoor Air (OA)	1
MD-F08	130 CFM	6"	Outdoor Air (OA)	1
MD-G09	690 CFM	12" x 12"	Outdoor Air (OA)	1
MD-G10	1765 CFM	16" x 16"	Exhaust Air (EA)	2

NOTES

1 PROVIDE AN ADJUSTABLE GLOBAL (PER AIR HANDLER) MINIMUM POSITION SET POINT. SET MINIMUM POSITION AT 50%.
2 SET MINIMUM DAMPER POSITION AT 0% (ADJ.).
3 SET MINIMUM DAMPER POSITION AT 100% (ADJ.).
4 INTERLOCK TO DISHWASHER EXHAUST FAN.

23.81.46 - WATER-SOURCE HEAT PUMP SCHEDULE LITE

IDENTITY DATA				ELECTRICAL					SUPPLY FAN		COOLING							HEATING					CONDENSER COIL						UNIT SIZE (IN)				
MARK	MANUFACTURER	MODEL	LOCATION # NAME	VOLT.	PH.	HZ	MCA (A)	MOCP (A)	NOMINAL (CFM)	ESP (IN-WG)	TOT. CAP. (MBH)	SENS. CAP. (MBH)	HEAT OF REJECTION (MBH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	EWT (°F)	LWT (°F)	EER	CAP. (MBH)	HEAT OF ABSORPTION (MBH)	EAT DB (°F)	LAT DB (°F)	EWT (°F)	LWT (°F)	COP	FLOW (GPM)	COOLING WPD (FT-WG)	HEATING WPD (FT-WG)	GLYCOL TYPE	%	REFRIG. TYPE	REFRIG. VOLUME (OZ)	L	W	H	OPER. WT. (LBS.)	NOTES
HP-A01	CLIMATEMASTER	SEV009	A201 MECHANICAL ROOM	277	1	60	6.9	15	375	0.60	9.0	7.5	11.1	75	63	56	54	80	89.9	15.1	8.9	6.5	68	90	45	39	4	2.25	3.40	3.80	PROPYLENE GLYCOL	25	R-454B	40	26	22	35	156	1,2,3,4,5
HP-A02	CLIMATEMASTER	SEV009	A201 MECHANICAL ROOM	277	1	60	6.9	15	285	0.70	8.7	6.8	11.1	75	63	53	52	80	89.7	15.4	8.7	6.5	68	96	45	39	3.8	2.25	3.40	3.80	PROPYLENE GLYCOL	25	R-454B	26	22	22	35	156	1,2,3,4,5
HP-A03	CLIMATEMASTER	SEV006	A201 MECHANICAL ROOM	277	1	60	4.5	15	300	0.60	5.8	5.6	7.1	75	63	58	56	80	89.5	15.7	6.1	4.5	68	87	45	39	4	1.50	2.50	3.40	PROPYLENE GLYCOL	25	R-454B	19	22	22	35	136	1,2,3,4,5
HP-A04	CLIMATEMASTER	SEV009	A201 MECHANICAL ROOM	277	1	60	6.9	15	325	0.55	8.9	7.2	11.1	75	63	55	53	80	89.8	15.3	8.8	6.5	68	93	45	39	4	2.25	3.40	3.80	PROPYLENE GLYCOL	25	R-454B	26	22	22	35	156	1,2,3,4,5
HP-A05	CLIMATEMASTER	SEV012	A206 MECHANICAL ROOM	277	1	60	8.3	15	415	0.60	11.0	8.7	13.7	75	63	56	54	80	89.3	14	11.5	8.4	68	94	45	39	4	3.00	5.30	6.10	PROPYLENE GLYCOL	25	R-454B	27	22	22	35	160	1,2,3,4,5
HP-A06	CLIMATEMASTER	SEV018	A206 MECHANICAL ROOM	277	1	60	11.6	15	800	0.60	18.1	17.1	21.6	75	63	55	55	80	90.1	14.1	17.8	12.8	68	89	45	39	4.4	4.50	3.70	5.00	PROPYLENE GLYCOL	25	R-454B	40	26	22	45	257	1,2,3,4,5
HP-A07	CLIMATEMASTER	SEV012	A206 MECHANICAL ROOM	277	1	60	8.3	15	435	0.60	11.1	8.8	13.7	75	63	56	54	80	89.3	14	11.5	8.4	68	93	45	39	4	3.00	5.30	6.10	PROPYLENE GLYCOL	27	R-454B	27	22	22	35	160	1,2,3,4,5
HP-A08	CLIMATEMASTER	SEV024	A206 MECHANICAL ROOM	277	1	60	13.3	20	850	0.75	25.0	18.5	29.9	75	63	55	52	80	90.1	16.4	23.9	18.2	68	94	45	39	4.6	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A09	CLIMATEMASTER	SEV024	A206 MECHANICAL ROOM	277	1	60	13.3	20	850	0.75	25.0	18.5	29.9	75	63	55	52	80	90.1	16.4	23.9	18.2	68	94	45	39	4.6	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	31	22	49	298	1,2,3,4,5
HP-A10	CLIMATEMASTER	SEV024	A206 MECHANICAL ROOM	277	1	60	13.3	20	850	0.75	25.0	18.5	29.9	75	63	55	52	80	90.1	16.4	23.9	18.2	68	94	45	39	4.6	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	31	22	49	298	1,2,3,4,5
HP-A11	CLIMATEMASTER	SEV006	A206 MECHANICAL ROOM	277	1	60	4.5	15	285	0.60	5.8	5.6	7.1	75	63	57	56	80	89.5	15.7	6.1	4.5	68	88	45	39	4	1.50	2.50	3.40	PROPYLENE GLYCOL	25	R-454B	19	22	22	35	136	1,2,3,4,5
HP-A12	CLIMATEMASTER	SEV018	A201 MECHANICAL ROOM	277	1	60	11.6	15	650	0.60	17.9	16.4	21.6	75	63	52	53	80	90.0	14.4	17.6	12.8	68	93	45	39	4.4	4.50	3.70	5.00	PROPYLENE GLYCOL	25	R-454B	40	26	22	45	257	1,2,3,4,5
HP-A13	CLIMATEMASTER	SEV012	A201 MECHANICAL ROOM	277	1	60	8.3	15	450	0.65	11.1	8.8	13.7	75	63	57	54	80	89.3	14	11.5	8.4	68	92	45	39	4	3.00	5.30	6.10	PROPYLENE GLYCOL	27	R-454B	27	22	22	35	160	1,2,3,4,5
HP-A14	CLIMATEMASTER	SEV024	A206 MECHANICAL ROOM	277	1	60	13.3	20	815	0.55	24.8	18.2	29.9	75	63	54	52	80	90.1	16.5	23.7	18.2	68	95	45	39	4.6	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	31	22	49	298	1,2,3,4,5
HP-A15	CLIMATEMASTER	SEV018	A201 MECHANICAL ROOM	277	1	60	11.6	15	520	0.55	17.2	14.8	21.6	75	63	49	51	80	89.7	14.4	17.1	12.8	68	98	45	39	4	4.50	3.70	5.00	PROPYLENE GLYCOL	25	R-454B	40	26	22	45	257	1,2,3,4,5
HP-A16	CLIMATEMASTER	SEV012	A201 MECHANICAL ROOM	277	1	60	8.3	15	390	0.50	11.0	8.5	13.7	75	63	55	53	80	89.2	14.2	11.4	8.4	68	95	45	39	4	3.00	5.30	6.10	PROPYLENE GLYCOL	27	R-454B	27	22	22	35	160	1,2,3,4,5
HP-A17	CLIMATEMASTER	SEV024	A201 MECHANICAL ROOM	277	1	60	13.3	20	760	0.35	24.6	17.6	29.9	75	63	54	51	80	90.0	16.8	23.4	18.2	68	97	45	39	4.5	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	31	22	49	298	1,2,3,4,5
HP-A18	CLIMATEMASTER	SEV009	A201 MECHANICAL ROOM	277	1	60	6.9	15	335	0.60	8.9	7.3	11.1	75	63	55	53	80	89.9	15.3	8.8	6.5	68	93	45	39	4	2.25	3.40	3.80	PROPYLENE GLYCOL	25	R-454B	26	22	22	35	156	1,2,3,4,5
HP-A19	CLIMATEMASTER	SEV024	A201 MECHANICAL ROOM	277	1	60	13.3	20	700	0.80	24.4	17.0	29.9	75	63	53	50	80	89.9	17	23.1	18.2	68	99	45	39	4.4	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A20	CLIMATEMASTER	SEV012	A201 MECHANICAL ROOM	277	1	60	8.3	15	385	0.60	11.0	8.4	13.7	75	63	55	52	80	89.2	14.2	11.4	8.4	68	95	45	39	4	3.00	5.30	6.10	PROPYLENE GLYCOL	27	R-454B	27	22	22	35	160	1,2,3,4,5
HP-A21	CLIMATEMASTER	SEV006	A201 MECHANICAL ROOM	277	1	60	4.5	15	250	0.50	5.7	5.3	7.1	75	63	55	55	80	89.4	16.1	6.1	4.5	68	90	45	39	3.9	1.50	2.50	3.40	PROPYLENE GLYCOL	25	R-454B	19	22	22	35	136	1,2,3,4,5
HP-A22	CLIMATEMASTER	SEV009	A201 MECHANICAL ROOM	277	1	60	6.9	15	370	0.70	9.0	7.5	11.1	75	63	56	54	80	89.9	15.1	8.9	6.5	68	90	45	39	4	2.25	3.40	3.80	PROPYLENE GLYCOL	25	R-454B	26	22	22	35	156	1,2,3,4,5
HP-A23	CLIMATEMASTER	SEV006	A201 MECHANICAL ROOM	277	1	60	4.5	15	270	0.60	5.7	5.5	7.1	75	63	56	55	80	89.4	15.9	6.1	4.5	68	89	45	39	4	1.50	2.50	3.40	PROPYLENE GLYCOL	25	R-454B	19	22	22	35	136	1,2,3,4,5
HP-A24	CLIMATEMASTER	SEV009	A206 MECHANICAL ROOM	277	1	60	6.9	15	340	0.65	8.9	7.4	11.1	75	63	55	53	80	89.9	15.2	8.8	6.5	68	92	45	39	4	2.25	3.40	3.80	PROPYLENE GLYCOL	25	R-454B	26	22	22	35	156	1,2,3,4,5
HP-A25	CLIMATEMASTER	SEV009	A206 MECHANICAL ROOM	277	1	60	6.9	15	370	0.60	9.0	7.5	11.1	75	63	56	54	80	89.9	15.1	8.9	6.5	68	90	45	39	4	2.25	3.40	3.80	PROPYLENE GLYCOL	25	R-454B	26	22	22	35	156	1,2,3,4,5
HP-A26	CLIMATEMASTER	SEV009	A206 MECHANICAL ROOM	277	1	60	6.9	15	250	0.60	8.5	6.4	11.1	75	63	51	50	80	89.5	15.3	8.5	6.5	68	100	45	39	3.6	2.25	3.40	3.80	PROPYLENE GLYCOL	25	R-454B	26	22	22	35	156	1,2,3,4,5
HP-A27	CLIMATEMASTER	SEV012	A201 MECHANICAL ROOM	277	1	60	8.3	15	350	0.70	10.8	8.1	13.7	75	63	54	52	80	89.1	14.3	11.3	8.4	68	98	45	39	3.9	3.00	5.30	6.10	PROPYLENE GLYCOL	25	R-454B	27	22	22	35	160	1,2,3,4,5
HP-B01	CLIMATEMASTER	SEV024	B103 H.P.	277	1	60	13.3	20	760	0.55	24.6	17.6	29.9	75	63	54	51	80	90.0	16.8	23.4	18.2	68	97	45	39	4.5	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	31	22	49	298	1,2,3,4,5
HP-B02	CLIMATEMASTER	SEV024	B103 H.P.	277	1	60	13.3	20	760	0.55	24.6	17.6	29.9	75	63	54	51	80	90.0	16.8	23.4	18.2	68	97	45	39	4.5	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	26	22	49	298	1,2,3,4,5
HP-B03	CLIMATEMASTER	SEV024	B110 H.P.	277	1	60	13.3	20	760	0.55	24.6	17.6	29.9	75	63	54	51	80	90.0	16.8	23.4	18.2	68	97	45	39	4.5	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	31	22	49	298	1,2,3,4,5
HP-B04	CLIMATEMASTER	SEV024	B110 H.P.	277	1	60	13.3	20	760	0.55	24.6	17.6	29.9	75	63	54	51	80	90.0	16.8	23.4	18.2	68	97	45	39	4.5	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	26	22	49	298	1,2,3,4,5
HP-B05	CLIMATEMASTER	SEV012	B201 MECHANICAL ROOM	277	1	60	8.3	15	400	0.50	11.0	8.6	13.7	75	63	55	53	80	89.2	14.1	11.4	8.4	68	95	45	39	4	3.00	5.30	6.10	PROPYLENE GLYCOL	27	R-454B	27	22	22	35	160	1,2,3,4,5
HP-B06	CLIMATEMASTER	SEV024	B201 MECHANICAL ROOM	277	1	60	13.3	20	760	0.30	24.6	17.6	29.9	75	63	54	51	80	90.0	16.8	23.4	18.2	68	97	45	39	4.5	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	26	22	49	298	1,2,3,4,5
HP-B07	CLIMATEMASTER	SEV009	B201 MECHANICAL ROOM	277	1	60	6.9	15	340	0.55	8.9	7.4	11.1	75	63	55	53	80	89.9	15.2	8.8	6.5	68	92	45	39	4	2.25	3.40	3.80	PROPYLENE GLYCOL	25	R-454B	26	22	22	35	156	1,2,3,4,5
HP-B08	CLIMATEMASTER	SEV009	B201 MECHANICAL ROOM	277	1	60	6.9	15	300	0.55	8.8	7.0	11.1	75	63	54	52	80	89.7	15.4	8.7	6.5	68	95	45	39	3.9	2.25	3.40	3.80	PROPYLENE GLYCOL	25	R-454B	26	22	22	35	156	1,2,3,4,5
HP-B09	CLIMATEMASTER	SEV012	B201 MECHANICAL ROOM	277	1	60	8.3	15	445	0.50	11.1	8.8	13.7	75	63	57	54	80	89.3	14	11.5	8.4	68	92	45	39	4	3.00	5.30	6.10	PROPYLENE GLYCOL	27	R-454B	27	22	22	35	160	1,2,3,4,5
HP-B10	CLIMATEMASTER	SEV009	B201 MECHANICAL ROOM	277	1	60	6.9	15	325	0.50	8.9	7.2	11.1	75	63	55	53	80	89.8	15.3	8.8	6.5	68	93	45	39	4	2.25	3.40	3.80	PROPYLENE GLYCOL	25	R-454B	26	22	22	35	156	1,2,3,4,5
HP-B11	CLIMATEMASTER	SEV018	B201 MECHANICAL ROOM	277	1	60	11.6	15	620	0.65	17.8	16.0	21.6	75	63	51	52	80	89.9	14.4	17.5	12.8	68	94	45	39	4.3	4.50	3.70	5.00	PROPYLENE GLYCOL	25	R-454B	40	26	22	45	257	1,2,3,4,5
HP-B12	CLIMATEMASTER	SEV006	B201 MECHANICAL ROOM	277	1	60	4.5	15	285	0.50	5.8	5.6	7.1	75	63	57	56	80	89.5	15.7	6.1	4.5	68	88	45	39	4	1.50	2.50	3.40	PROPYLENE GLYCOL	25	R-454B	19	22	22	35	136	1,2,3,4,5
HP-B13	CLIMATEMASTER	SEV006	B201 MECHANICAL ROOM	277	1	60	4.5	15	300	0.55	5.8	5.6	7.1	75	63	58	56	80	89.5	15.7	6.1	4.5	68	87	45	39	4	1.50	2.50	3.40	PROPYLENE GLYCOL	25	R-454B	19	22	22	35	136	1,2,3,4,5
HP-B14	CLIMATEMASTER	SEV006	B201 MECHANICAL ROOM	277	1	60	4.5	15	300	0.60	5.8	5.6	7.1	75	63	58	56	80	89.5	15.7	6.1	4.5	68	87	45	39	4	1.50	2.50	3.40	PROPYLENE GLYCOL	25	R-454B	19	22	22	35	136	1,2,3,4,5
HP-B15	CLIMATEMASTER	SEV006	B201 MECHANICAL ROOM	277	1	60	4.5	15	300	0.60	5.8	5.6	7.1	75	63	58	56	80	89.5	15.7	6.1	4.5	68	87	45	39	4	1.50	2.50	3.40	PROPYLENE GLYCOL	25	R-454B	19	22	22	35	136	1,2,3,4,5
HP-B16	CLIMATEMASTER	SEV012	B201 MECHANICAL ROOM	277	1	60	8.3	15	400	0.55	11.0	8.6	13.7	75	63	55	53	80	89.2	14.1	11.4	8.4	68	95	45	39	4	3.00	5.30	6.10	PROPYLENE GLYCOL	27	R-454B	27	22	22	35	160	1,2,3,4,5
HP-C01	CLIMATEMASTER	SEV024	C103 H.P.	277	1	60	13.3	20	760	0.55	24.6	17.6	29.9	75	63	54	51	80	90.0	16.8	23.4	18.2	68	97	45	39	4.5	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	31	22	49	298	1,2,3,4,5
HP-C02	CLIMATEMASTER	SEV024	C103 H.P.	277	1	60	13.3	20	760	0.55	24.6	17.6	29.9	75	63	54	51	80	90.0	16.8	23.4	18.2	68	97	45	39	4.5	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	26	22	49	298	1,2,3,4,5
HP-C03	CLIMATEMASTER	SEV024	C110 H.P.	277	1	60	13.3	20	760	0.55	24.6	17.6	29.9	75	63	54	51	80	90.0	16.8	23.4	18.2	68	97	45	39	4.5	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	31	22	49	298	1,2,3,4,5
HP-C04	CLIMATEMASTER	SEV024	C110 H.P.	277	1	60	13.3	20	760	0.55	24.6	17.6	29.9	75	63	54	51	80	90.0	16.8	23.4	18.2	68	97	45	39	4.5	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	26	22	49	298	1,2,3,4,5
HP-C05	CLIMATEMASTER	SEV009	C201 MECHANICAL ROOM	277	1	60	6.9	15	375	0.55	8.9	7.4	11.1	75	63	55	53	80	89.9	15.2	8.8	6.5	68	92	45	39	4	2.25	3.40	3.80	PROPYLENE GLYCOL	25	R-454B	26	22	22	35	156	1,2,3,4,5
HP-C06	CLIMATEMASTER	SEV024	C201 MECHANICAL ROOM	277	1	60	13.3	20	800	0.50	24.8	18.0	29.9	75	63	54	51	80	90.0	16.6	23.6	18.2	68	95	45	39	4.5	6.00	1.80	2.00	PROPYLENE GLYCOL	25	R-454B	34	31	22	49	298	1,2,3,4,5
HP-C07	CLIMATEMASTER	SEV009	C201 MECHANICAL ROOM	277	1	60	6.9	15	320	0.65	8.9	7.2	11.1	75	63	54	53	80	89.8	15.3	8.8	6.5	68	93	45	39	4	2.25	3.40	3.80	PROPYLENE GLYCOL	25	R-454B	26	22	22	35	156	1,2,3,4,5
HP-C08	CLIMATEMASTER	SEV012	C201 MECHANICAL ROOM	277	1	60	8.3	15	450	0.50	11.1	8.8	13.7	75	63	57	54	80	89.3	14	11.5	8.4	68	92	45	39	4	3.00	5.30	6.10	PROPYLENE GLYCOL	27	R-454B	27	22	22	35	160	1,2,3,4,5
HP-C09	CLIMATEMASTER	SEV012	C201 MECHANICAL ROOM	277	1	60	8.3	15	400	0.60	11.0	8.6	13.7	75	63	55	53	80	89.2	14.1	11.4	8.4	68	95	45	39	4	3.00	5.30	6.10	PROPYLENE GLYCOL



ELECTRICAL SITE PLAN

1" = 50'-0"

GENERAL SITE PLAN NOTES:

1. REFER TO SITE UTILITY PLANS TO COORDINATE EXACT LOCATION OF ALL ELECTRICAL EQUIPMENT.

PLAN NOTES:

S1 PROVIDE A FLUSH GROUND MOUNTED PULL BOX AT THIS LOCATION FOR THE ELECTRIC CAR CHARGING STATIONS.

S2 RUN A 4-INCH CONDUIT UNDERGROUND FROM THE GROUND MOUNTED PULLBOX, BACK TO THE BUILDINGS MAIN ELECTRICAL ROOM "D136"

S3 STUB OUT A 2-INCH CONDUIT FROM THE GROUND MOUNTED PULL BOX TO THE LOCATION OF THE CAR CHARGING STATION.

S4 PROVIDE THIS LIGHT FIXTURE HEAD WITH A HOUSE SIDE SHIELD.

S5 SITE LIGHTING IS TO BE WIRED THROUGH THE MECHANICAL BAS SYSTEM VIA LIGHTING CONTACTOR "LC-6" IN ROOM D137.

1 S6 EXISTING UTILITY POLE AT THIS LOCATION IS TO BE PROTECTED DURING CONSTRUCTION FROM DAMAGE AND IS TO BE RESUPPORTED BY THE UTILITY COMPANY AS THE NEW TURN LANE IS CONTRUCTED.

S7 PROVIDE A GROUND RING AROUND THE PERIMETER OF THE BUILDING. REFER TO DRAWING SHEET "E-501" FOR DETAILS AND ADDITIONAL REQUIREMENTS.

S8 ALL UTILITY COMPANY SERVICE INSTALLATION IS TO BE PROVIDED AND INSTALLED BY THE UTILITY COMPANY.

S9 EXISTING UTILITY POLE AT THIS LOCATION IS TO BE PROTECTED DURING CONSTRUCTION FROM DAMAGE AND IS TO BE RESUPPORTED BY THE UTILITY COMPANY AS THE NEW TURN LANE IS CONSTRUCTED.

S10 DIVISION 26 CONTRACOTR TO PROVIDE TWO 4-INCH PVC CONDUITS FOR THE UTILITY COMPANIES PRIMARY FEEDERS.

S11 PROVIDE ALL SECONDARY CONDUITS AND FEEDERS. REFER TO DRAWING SHEET "E701" FOR SIZES AND QUANTITIES.

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S 700 E AND E 550 S
ZIONSVILLE, INDIANA 46077

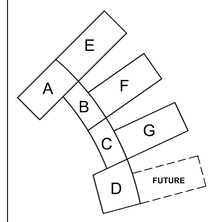
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KEY PLAN

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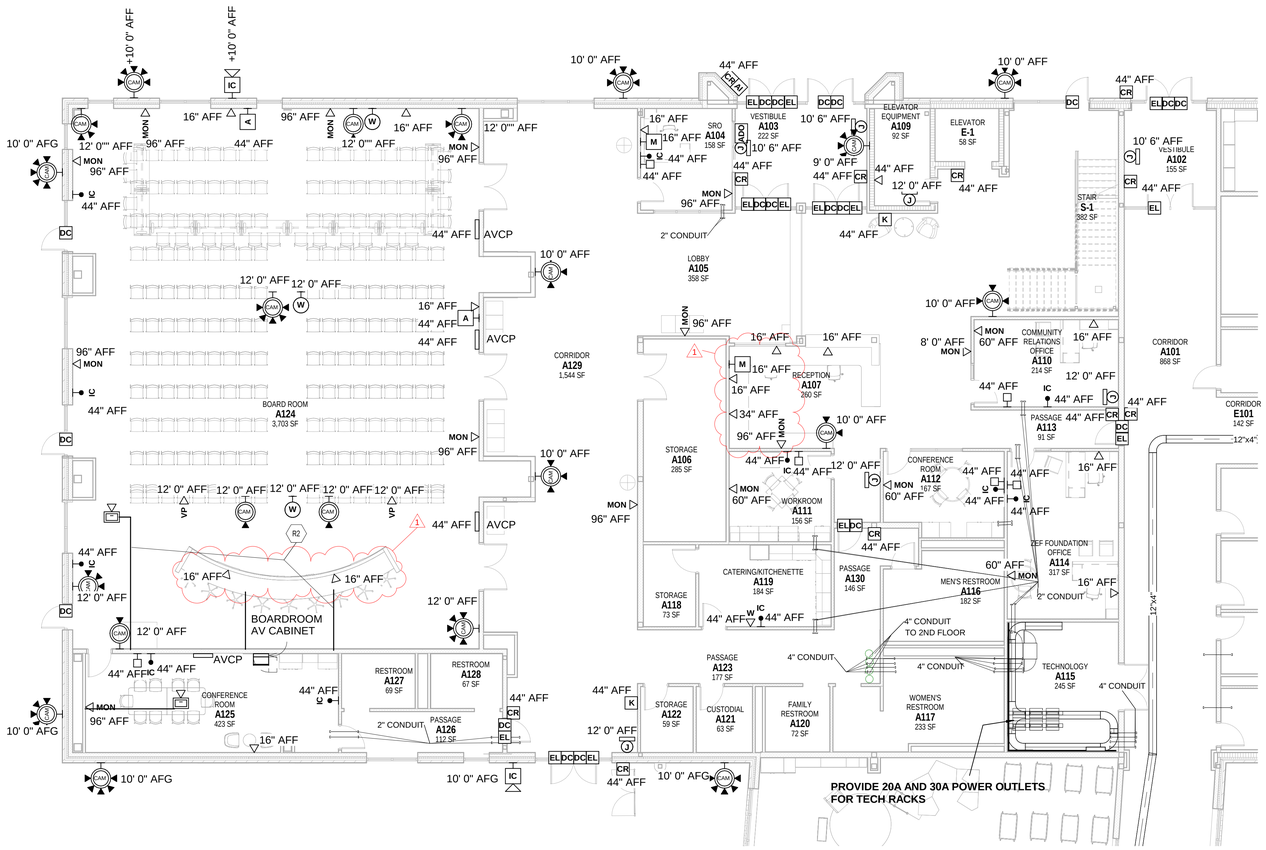
BRIAN W. BUTLER REGISTERED No. PE11800035 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 1	07.09.2025

ELECTRICAL SITE PLAN

ES001



1 FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT A

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
A101		CORRIDOR	868 SF
A102		VESTIBULE	155 SF
A103		VESTIBULE	222 SF
A104		SRO	158 SF
A105		<varies>	358 SF
A106		STORAGE	285 SF
A107		<varies>	<varies>
A108		LOBBY	<varies>
A109		ELEVATOR EQUIPMENT	92 SF
A110		COMMUNITY RELATIONS OFFICE	214 SF
A111		WORKROOM	156 SF
A112		CONFERENCE ROOM	167 SF
A113		PASSAGE	91 SF
A114		ZEF FOUNDATION OFFICE	317 SF
A115		TECHNOLOGY	245 SF
A116		MEN'S RESTROOM	<varies>
A117		WOMEN'S RESTROOM	233 SF
A118		STORAGE	73 SF
A119		CATERING/KITCHENETTE	184 SF
A120		FAMILY RESTROOM	72 SF
A121		CUSTODIAL	63 SF
A122		STORAGE	59 SF
A123		PASSAGE	177 SF
A124		BOARD ROOM	<varies>
A125		CONFERENCE ROOM	423 SF
A126		PASSAGE	112 SF
A127		RESTROOM	69 SF
A128		RESTROOM	67 SF
A129		CORRIDOR	1544 SF
A130		PASSAGE	146 SF
A131		PASSAGE	58 SF
A132		PASSAGE	58 SF
B101		CORRIDOR	1654 SF
B102		DAYCARE INFANTS/TODDLERS	1303 SF
E1		ELEVATOR	58 SF
E101		CORRIDOR	142 SF
E102		ELECTRICAL	131 SF
E103		RESTROOM	233 SF
E104		STORAGE	172 SF
E105		CLASSROOM	943 SF
E132		CLASSROOM	1093 SF
E133		OT/PT/SPEECH OFFICE	138 SF
E134		OT/PT/SPEECH OFFICE	139 SF
E135		RESTROOM	62 SF
E136		OUTDOOR STORAGE	142 SF
E139		RESTROOM	62 SF
E143		CORRIDOR	868 SF
E-1		ELEVATOR	58 SF
S-1		STAIR	382 SF

TECHNOLOGY ROUGH-IN GENERAL NOTES

A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
R2	PROVIDE ONE 1 1/2" CONDUIT FROM ROUGHIN BOX LOCATION BACK TO A125 BOARDROOM AV CABINET FOR A/V CONNECTIONS.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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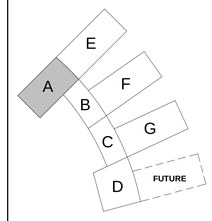
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KEY PLAN

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ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE10800026 STATE OF INDIANA PROFESSIONAL ENGINEER

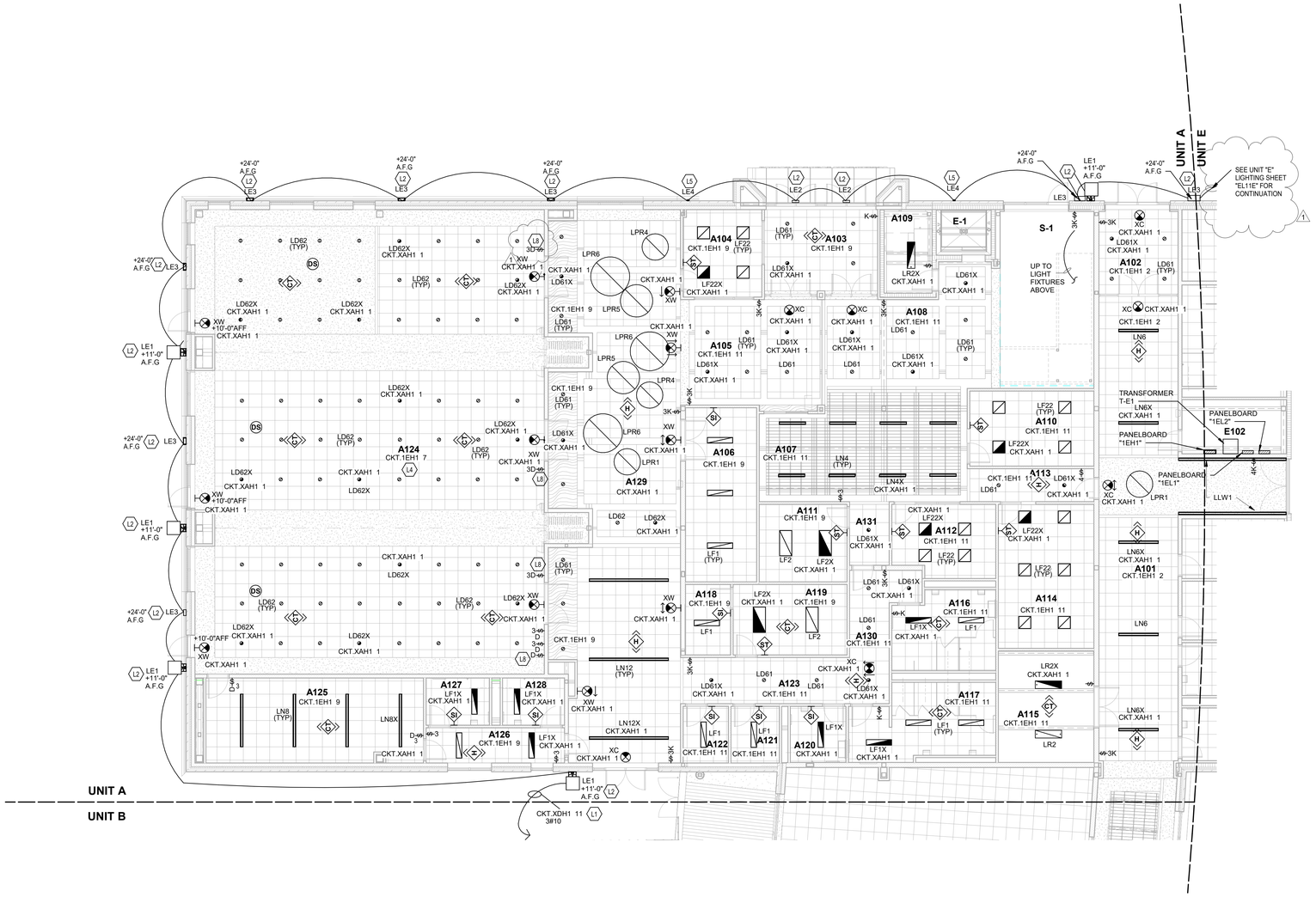
PROJECT MANAGER: JM
DRAWN BY: CDT
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT A

ET11A

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FIRST FLOOR LIGHTING PLAN - UNIT A

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

ROOM LEGEND UNIT A

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
A101		CORRIDOR	868 SF
A102		VESTIBULE	155 SF
A103		VESTIBULE	222 SF
A104		SRO	158 SF
A105		LOBBY	358 SF
A106		STORAGE	285 SF
A107		RECEPTION	260 SF
A108		LOBBY	665 SF
A109		ELEVATOR EQUIPMENT	92 SF
A110		COMMUNITY RELATIONS OFFICE	214 SF
A111		WORKROOM	156 SF
A112		CONFERENCE ROOM	167 SF
A113		PASSAGE	91 SF
A114		ZEF FOUNDATION OFFICE	317 SF
A115		TECHNOLOGY	245 SF
A116		MEN'S RESTROOM	182 SF
A117		WOMEN'S RESTROOM	233 SF
A118		STORAGE	73 SF
A119		CATERING/KITCHENETTE	184 SF
A120		FAMILY RESTROOM	72 SF
A121		CUSTODIAL	63 SF
A122		STORAGE	59 SF
A123		PASSAGE	177 SF
A124		BOARD ROOM	3703 SF
A125		CONFERENCE ROOM	423 SF
A126		PASSAGE	112 SF
A127		RESTROOM	69 SF
A128		RESTROOM	67 SF
A129		CORRIDOR	1544 SF
A130		PASSAGE	146 SF
A131		PASSAGE	58 SF

ROOM LEGEND STAIRS

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
S-1		STAIR	382 SF

ROOM LEGEND ELEVATOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
E-1		ELEVATOR	58 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINAL CONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL "1C/E-503".
6. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
7. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.
8. EMERGENCY LIGHT FIXTURES THAT ARE IN THE PATH OF EGRESS DO NOT REQUIRE AN EMERGENCY TRANSFER DEVICE.
9. MC CABLING CAN BE USED IN SPACES ABOVE ACCESSABLE CEILINGS FOR BRANCH WIRING. IN CONCRETE MASONRY WALLS EXPOSED AREAS AND ALL TECHNOLOGY CABINETS CONDUITS ARE TO BE PROVIDED.

SHEET KEYNOTES

L1	EXTERIOR BUILDING SECURITY LIGHTING IS TO BE WIRED THROUGH THE MECHANICAL BAS SYSTEM VIA LIGHTING CONTACTOR "LC-8" IN ROOM D137.
L2	REFER TO THE ARCHITECTURAL EXTERIOR ELEVATIONS DRAWING SHEETS FOR EXACT MOUNTING HEIGHT AND MOUNTING LOCATION OF THIS LIGHTING FIXTURE MOUNTING HEIGHT SHOWN IS TO THE TOP OF THE FIXTURE.
L4	PROVIDE A SLOPED CEILING ADAPTER FOR THE LD62 AND LD62X LIGHT FIXTURES IN THIS ROOM. DETERMINE CEILING SLOPE ANGLE IN THE FIELD.
L5	LIGHT FIXTURE TYPE LE4 IS TO BE CENTERED IN THE BRICK INSET. REFER TO NORTH ELEVATION - UNIT A ON ARCHITECTURAL DRAWING SHEET A-201 FOR EXACT HEIGHT AND LOCATION.
L8	LOCATION OF DIMMER CONTROL SWITCH FOR EACH LIGHTING BAY, WITH AN ADDITIONAL 3-WAY SWITCH AT THE FRONT END OF THE ROOM.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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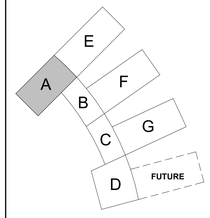
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ARCHITECT

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KEY PLAN

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ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE10803555 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

FIRST FLOOR LIGHTING PLAN - UNIT A

EL11A

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ROOM LEGEND UNIT B

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
B101		CORRIDOR	1654 SF
B102		DAYCARE INFANTS/TODDLERS	1303 SF
B103		HEAT PUMP CLOSET	55 SF
B104		CLOSET	25 SF
B105		TOILET	40 SF
B106		DAYCARE INFANTS/TODDLERS	1175 SF
B107		CLOSET	25 SF
B108		TOILET	40 SF
B109		DAYCARE INFANTS/TODDLERS	1175 SF
B110		HEAT PUMP CLOSET	55 SF
B111		STORAGE	25 SF
B112		TOILET	40 SF
B113		DAYCARE INFANTS/TODDLERS	1175 SF
B114		STORAGE	25 SF
B115		TOILET	40 SF



FIRST FLOOR LIGHTING PLAN - UNIT B

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

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINAL CONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
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6. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
7. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.
8. EMERGENCY LIGHT FIXTURES THAT ARE IN THE PATH OF EGRESS DO NOT REQUIRE AN EMERGENCY TRANSFER DEVICE.
9. MC CABLING CAN BE USED IN SPACES ABOVE ACCESSABLE CEILINGS FOR BRANCH WIRING. IN CONCRETE MASONRY WALLS EXPOSED AREAS AND ALL TECHNOLOGY CABINETS CONDUITS ARE TO BE PROVIDED.

SHEET KEYNOTES

L2	REFER TO THE ARCHITECTURAL EXTERIOR ELEVATIONS DRAWING SHEETS FOR EXACT MOUNTING HEIGHT AND MOUNTING LOCATION OF THIS LIGHTING FIXTURE MOUNTING HEIGHT SHOWN IS TO THE TOP OF THE FIXTURE.
L3	MOUNT LIGHT FIXTURES IN THE ROOM TO MISS MECHANICAL EQUIPMENT.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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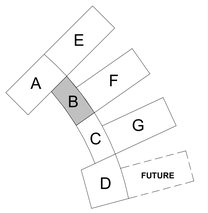
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KEY PLAN

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ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE19508 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

FIRST FLOOR LIGHTING PLAN - UNIT B

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FIRST FLOOR LIGHTING PLAN - UNIT C

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

ROOM LEGEND UNIT C			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
C101		CORRIDOR	1627 SF
C102		DAYCARE INFANTS/TODDLERS	1175 SF
C103		HEAT PUMP CLOSET	55 SF
C104		STORAGE	25 SF
C105		TOILET	40 SF
C106		DAYCARE INFANTS/TODDLERS	1175 SF
C107		STORAGE	25 SF
C108		TOILET	40 SF
C109		DAYCARE INFANTS/TODDLERS	1175 SF
C110		HEAT PUMP CLOSET	55 SF
C111		STORAGE	25 SF
C112		TOILET	40 SF
C113		DAYCARE INFANTS/TODDLERS	1116 SF
C114		STORAGE	25 SF
C115		TOILET	40 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINALCONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
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7. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.
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SHEET KEYNOTES

L1	EXTERIOR BUILDING SECURITY LIGHTING IS TO BE WIRED THROUGH THE MECHANICAL BAS SYSTEM VIA LIGHTING CONTACTOR "LC-8" IN ROOM D137.
L2	REFER TO THE ARCHITECTURAL EXTERIOR ELEVATIONS DRAWING SHEETS FOR EXACT MOUNTING HEIGHT AND MOUNTING LOCATION OF THIS LIGHTING FIXTURE MOUNTING HEIGHT SHOWN IS TO THE TOP OF THE FIXTURE.
L3	MOUNT LIGHT FIXTURES IN THE ROOM TO MISS MECHANICAL EQUIPMENT.

VERIFICATION NOTE

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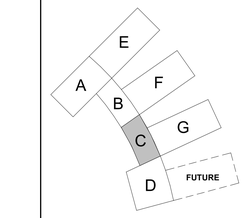
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KEY PLAN

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BRIAN W. BUTLER REGISTERED No. PE19800005 STATE OF INDIANA PROFESSIONAL ENGINEER

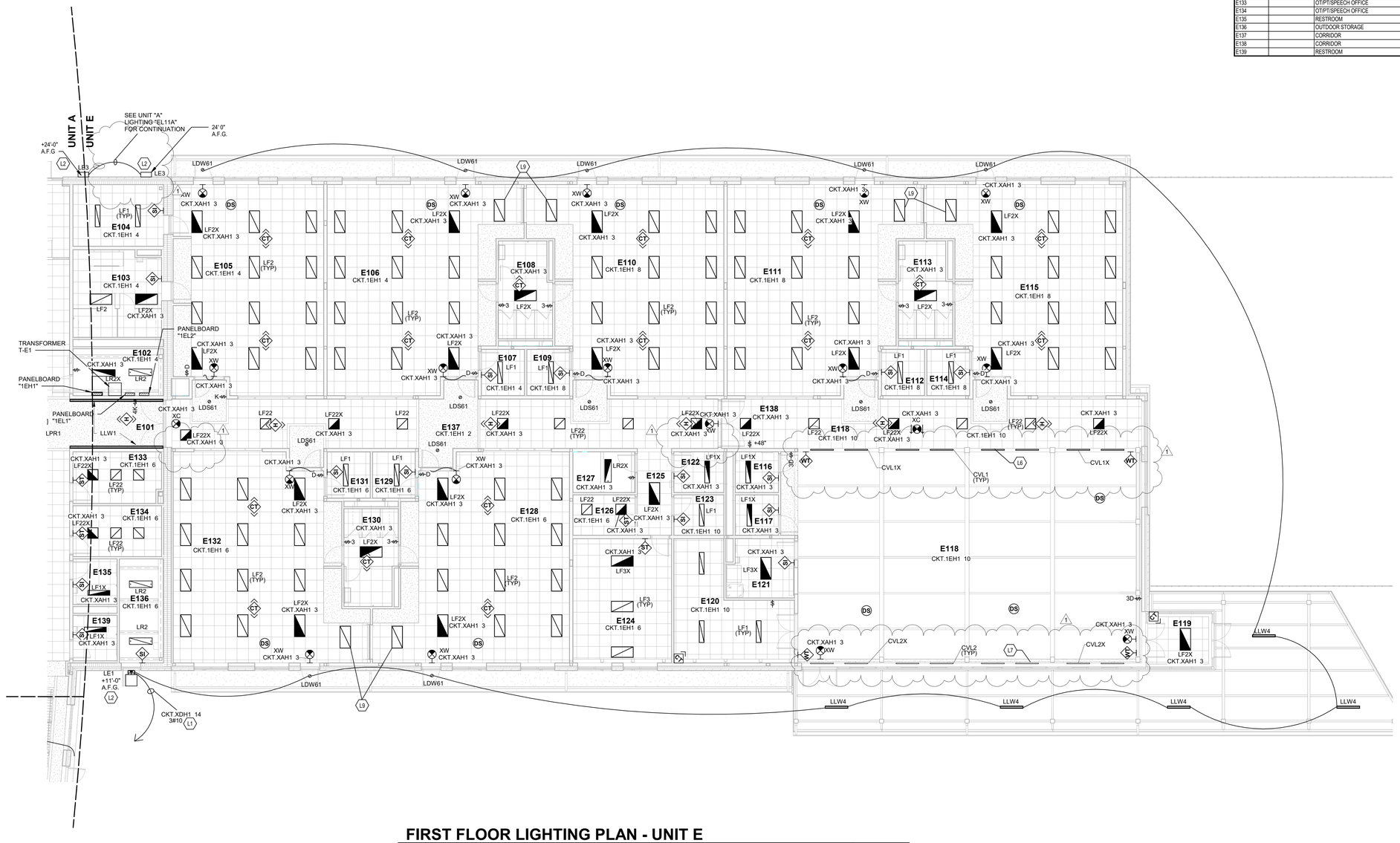
PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

FIRST FLOOR LIGHTING PLAN - UNIT C

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FIRST FLOOR LIGHTING PLAN - UNIT E

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

ROOM LEGEND UNIT E

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
E101		CORRIDOR	142 SF
E102		ELECTRICAL	131 SF
E103		RESTROOM	233 SF
E104		STORAGE	172 SF
E105		CLASSROOM	943 SF
E106		CLASSROOM	1096 SF
E107		STORAGE	61 SF
E108		RESTROOM	156 SF
E109		STORAGE	61 SF
E110		CLASSROOM	1095 SF
E111		CLASSROOM	1095 SF
E112		STORAGE	61 SF
E113		RESTROOM	155 SF
E114		STORAGE	61 SF
E115		CLASSROOM	1087 SF
E116		TOILET	54 SF
E117		TOILET	54 SF
E118		MULTI-PURPOSE	2891 SF
E119		VESTIBULE	111 SF
E120		STORAGE	327 SF
E121		PANTRY	118 SF
E122		STAFF TOILET	63 SF
E123		CUSTODIAL	62 SF
E124		STAFF WORKROOM	378 SF
E125		PASSAGE	91 SF
E126		BREAKOUT	77 SF
E127		TECHNOLOGY	78 SF
E128		CLASSROOM	1094 SF
E129		STORAGE	61 SF
E130		RESTROOM	156 SF
E131		STORAGE	61 SF
E132		CLASSROOM	1093 SF
E133		OT/PT/SPEECH OFFICE	138 SF
E134		OT/PT/SPEECH OFFICE	139 SF
E135		RESTROOM	62 SF
E136		OUTDOOR STORAGE	142 SF
E137		CORRIDOR	931 SF
E138		CORRIDOR	116 SF
E139		RESTROOM	62 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINALCONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
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7. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.
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SHEET KEYNOTES

L1	EXTERIOR BUILDING SECURITY LIGHTING IS TO BE WIRED THROUGH THE MECHANICAL BAS SYSTEM VIA LIGHTING CONTACTOR "LC-8" IN ROOM D137.
L2	REFER TO THE ARCHITECTURAL EXTERIOR ELEVATIONS DRAWING SHEETS FOR EXACT MOUNTING HEIGHT AND MOUNTING LOCATION OF THIS LIGHTING FIXTURE MOUNTING HEIGHT SHOWN IS TO THE TOP OF THE FIXTURE.
L6	MOUNT CVALX LIGHT FIXTURES AT 22'-0"AFF ON LOWER EDGE OF SLOPED COVE SHELF. FIXTURES ARE TO UPLIGHT THE CEILING. TYPICAL THIS SIDE OF ROOM
L7	MOUNT CVL2 AND CVL2X FIXTURES ON THE BULKHEAD BELOW THE WINDOW AT 13'-00" A.F.F. AIM LIGHT OUT TO ILLUMINATE CEILING.
L9	LIGHT FIXTURE THAT IS LOCATED WHERE OVERHEAD DOOR TRACK RUN, IS TO NOT HAVE CHAINS AND IS TO BE SELF SUPPORTED BY THE CEILING GRID.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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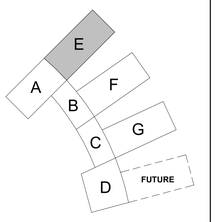
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ARCHITECT

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KEY PLAN

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ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE19500 STATE OF INDIANA PROFESSIONAL ENGINEER

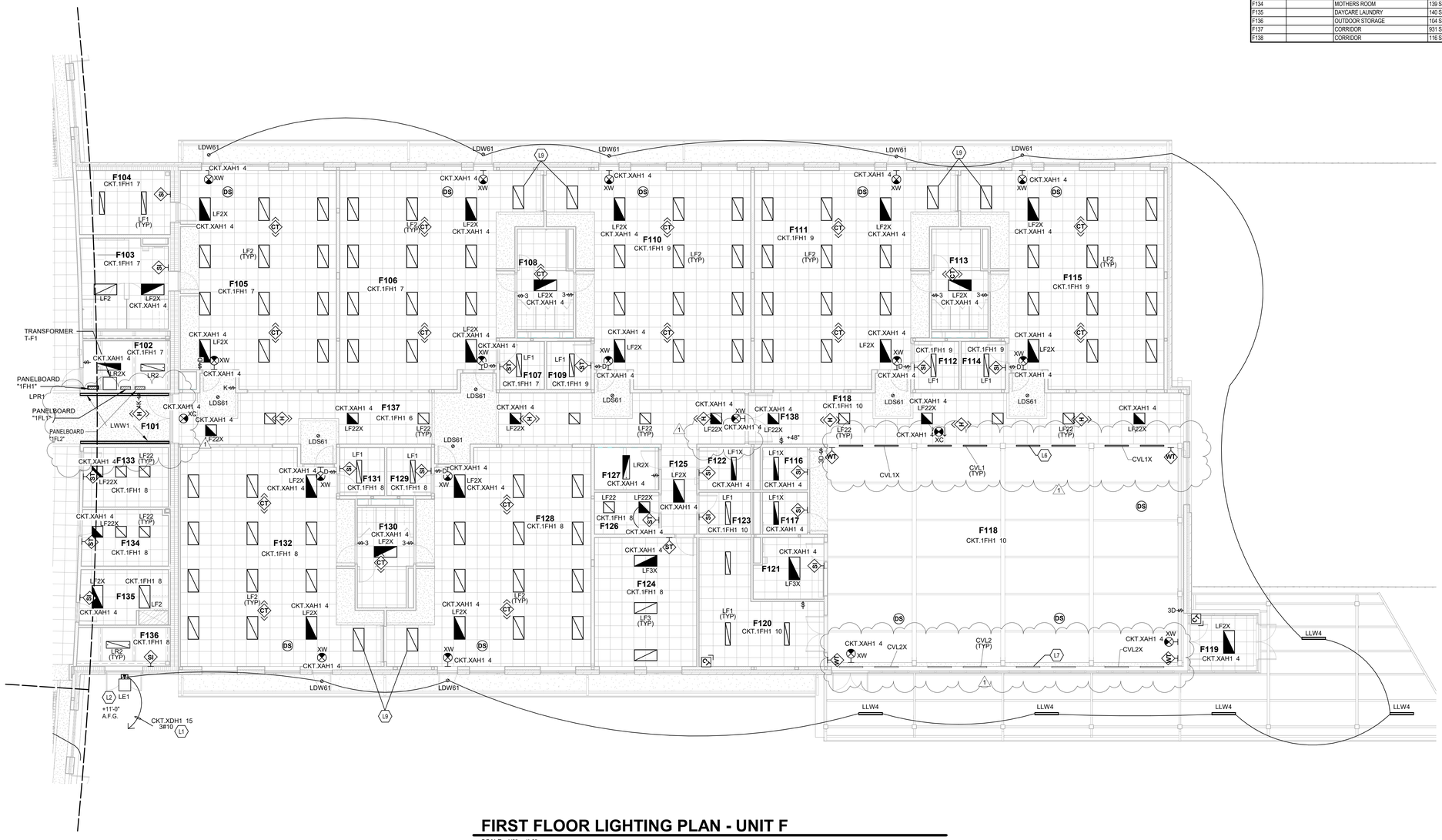
PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

FIRST FLOOR LIGHTING PLAN - UNIT E

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FIRST FLOOR LIGHTING PLAN - UNIT F

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

ROOM LEGEND UNIT F

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
F101		CORRIDOR	132 SF
F102		ELECTRICAL	121 SF
F103		RESTROOM	220 SF
F104		STORAGE	169 SF
F105		CLASSROOM	943 SF
F106		CLASSROOM	1095 SF
F107		STORAGE	61 SF
F108		RESTROOM	153 SF
F109		STORAGE	61 SF
F110		CLASSROOM	1095 SF
F111		CLASSROOM	1095 SF
F112		STORAGE	61 SF
F113		RESTROOM	153 SF
F114		STORAGE	61 SF
F115		CLASSROOM	1087 SF
F116		TOILET	54 SF
F117		TOILET	54 SF
F118		MULTI-PURPOSE	2879 SF
F119		VESTIBULE	111 SF
F120		STORAGE	327 SF
F121		PANTRY	117 SF
F122		STAFF TOILET	63 SF
F123		CUSTODIAL	62 SF
F124		STAFF WORKROOM	378 SF
F125		PASSAGE	91 SF
F126		BREAKOUT	77 SF
F127		TECHNOLOGY	78 SF
F128		CLASSROOM	1095 SF
F129		STORAGE	61 SF
F130		RESTROOM	153 SF
F131		STORAGE	61 SF
F132		CLASSROOM	1092 SF
F133		OT/PT/SPEECH OFFICE	145 SF
F134		MOTHERS ROOM	139 SF
F135		DAYCARE LAUNDRY	140 SF
F136		OUTDOOR STORAGE	104 SF
F137		CORRIDOR	931 SF
F138		CORRIDOR	116 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINAL CONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL "1C/E-503".
6. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
7. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.
8. EMERGENCY LIGHT FIXTURES THAT ARE IN THE PATH OF EGRESS DO NOT REQUIRE AN EMERGENCY TRANSFER DEVICE.
9. MC CABLING CAN BE USED IN SPACES ABOVE ACCESSABLE CEILINGS FOR BRANCH WIRING. IN CONCRETE MASONRY WALLS EXPOSED AREAS AND ALL TECHNOLOGY CABINETS CONDUITS ARE TO BE PROVIDED.

SHEET KEYNOTES

L1	EXTERIOR BUILDING SECURITY LIGHTING IS TO BE WIRED THROUGH THE MECHANICAL BAS SYSTEM VIA LIGHTING CONTACTOR "LC-8" IN ROOM D137.
L2	REFER TO THE ARCHITECTURAL EXTERIOR ELEVATIONS DRAWING SHEETS FOR EXACT MOUNTING HEIGHT AND MOUNTING LOCATION OF THIS LIGHTING FIXTURE MOUNTING HEIGHT SHOWN IS TO THE TOP OF THE FIXTURE.
L6	MOUNT CVL1X LIGHT FIXTURES AT 22'-0"AFF ON LOWER EDGE OF SLOPED COVE SHELF. FIXTURES ARE TO UPLIGHT THE CEILING. TYPICAL THIS SIDE OF ROOM
L7	MOUNT CVL2 AND CVL2X FIXTURES ON THE BULKHEAD BELOW THE WINDOW AT 13'-00" A.F.F. AIM LIGHT OUT TO ILLUMINATE CEILING.
L9	LIGHT FIXTURE THAT IS LOCATED WHERE OVERHEAD DOOR TRACK RUN, IS TO NOT HAVE CHAINS AND IS TO BE SELF-SUPPORTED BY THE CEILING GRID.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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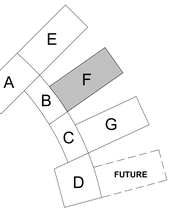
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KEY PLAN

N

ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE10000026 STATE OF IN PROFESSIONAL ENGINEER

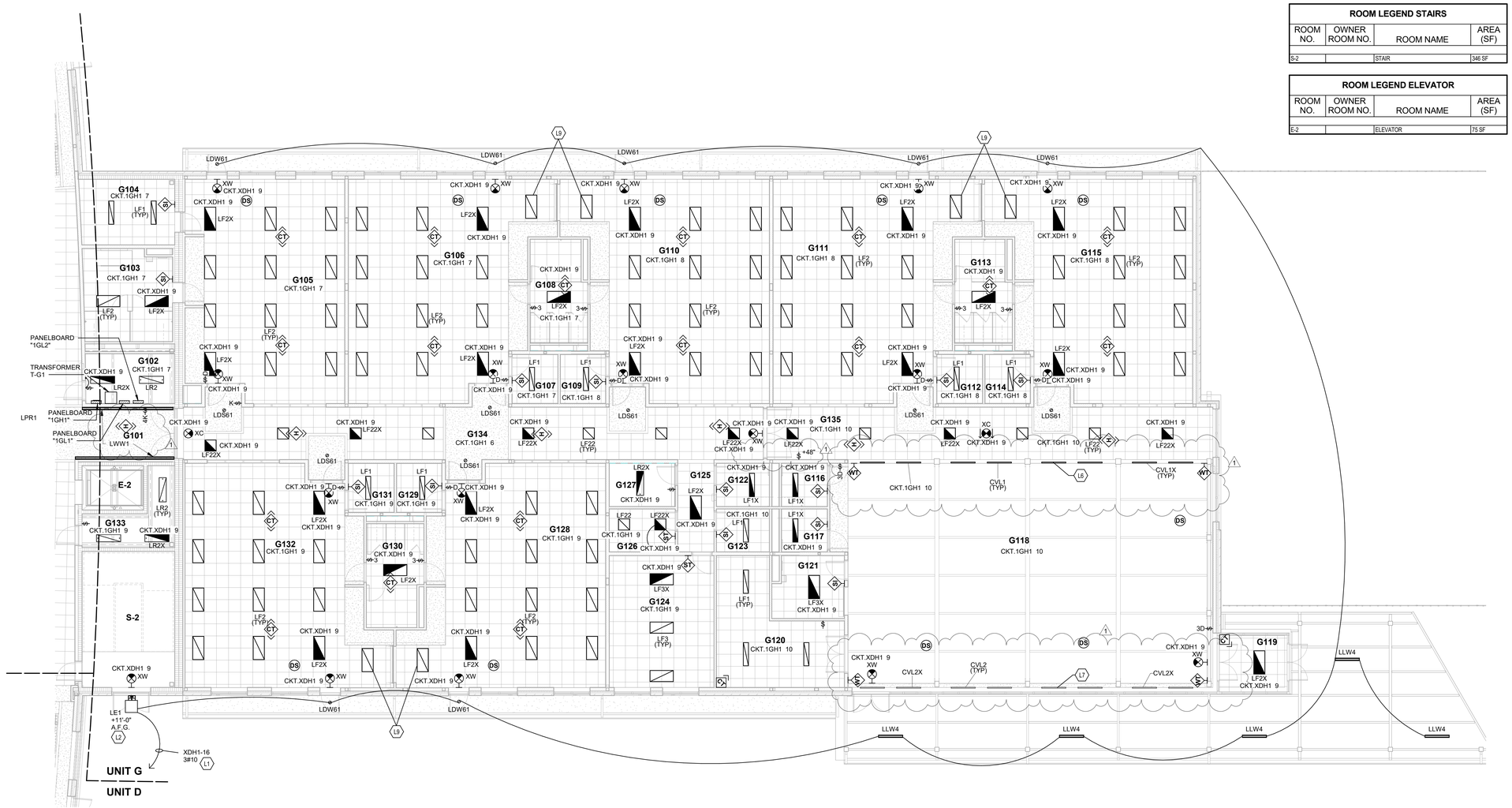
PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

FIRST FLOOR LIGHTING PLAN - UNIT F

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FIRST FLOOR LIGHTING PLAN - UNIT G

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

ROOM LEGEND UNIT G

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
G101		CORRIDOR	132 SF
G102		ELECTRICAL	121 SF
G103		RESTROOM	220 SF
G104		STORAGE	169 SF
G105		CLASSROOM	943 SF
G106		CLASSROOM	1095 SF
G107		STORAGE	61 SF
G108		RESTROOM	156 SF
G109		STORAGE	61 SF
G110		CLASSROOM	1095 SF
G111		CLASSROOM	1095 SF
G112		STORAGE	61 SF
G113		RESTROOM	155 SF
G114		STORAGE	61 SF
G115		CLASSROOM	1087 SF
G116		TOILET	54 SF
G117		TOILET	54 SF
G118		MULTI-PURPOSE	2879 SF
G119		VESTIBULE	111 SF
G120		STORAGE	327 SF
G121		PANTRY	117 SF
G122		STAFF TOILET	63 SF
G123		CUSTODIAL	62 SF
G124		STAFF WORKROOM	378 SF
G125		PASSAGE	91 SF
G126		BREAKOUT	77 SF
G127		TECHNOLOGY	78 SF
G128		CLASSROOM	1096 SF
G129		STORAGE	61 SF
G130		RESTROOM	155 SF
G131		STORAGE	61 SF
G132		CLASSROOM	1093 SF
G133		ELEVATOR EQUIPMENT	122 SF
G134		CORRIDOR	931 SF
G135		CORRIDOR	116 SF

ROOM LEGEND STAIRS

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
S-2		STAIR	346 SF

ROOM LEGEND ELEVATOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
E-2		ELEVATOR	75 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINALCONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL "1C/E-503".
6. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
7. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.
8. EMERGENCY LIGHT FIXTURES THAT ARE IN THE PATH OF EGRESS DO NOT REQUIRE AN EMERGENCY TRANSFER DEVICE.
9. MC CABLING CAN BE USED IN SPACES ABOVE ACCESSABLE CEILINGS FOR BRANCH WIRING. IN CONCRETE MASONRY WALLS EXPOSED AREAS AND ALL TECHNOLOGY CABINETS CONDUITS ARE TO BE PROVIDED.

SHEET KEYNOTES

L1	EXTERIOR BUILDING SECURITY LIGHTING IS TO BE WIRED THROUGH THE MECHANICAL BAS SYSTEM VIA LIGHTING CONTACTOR "LC-8" IN ROOM D137.
L2	REFER TO THE ARCHITECTURAL EXTERIOR ELEVATIONS DRAWING SHEETS FOR EXACT MOUNTING HEIGHT AND MOUNTING LOCATION OF THIS LIGHTING FIXTURE MOUNTING HEIGHT SHOWN IS TO THE TOP OF THE FIXTURE.
L6	MOUNT CVL/X LIGHT FIXTURES AT 22'-0"AFF ON LOWER EDGE OF SLOPED COVE SHELF. FIXTURES ARE TO "UPLIGHT THE" CEILING. TYPICAL THIS SIDE OF ROOM
L7	MOUNT CVL2 AND CVL2X FIXTURES ON THE BULKHEAD BELOW THE WINDOW AT 13'-00" A.F.F. AIM LIGHT OUT TO ILLUMINATE CEILING.
L9	LIGHT FIXTURE THAT IS LOCATED WHERE OVERHEAD DOOR TRACK RUN, IS TO NOT HAVE CHAINS AND IS TO BE SELF SUPPORTED BY THE CEILING GRID.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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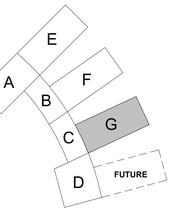
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KEY PLAN

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ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE19900008 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

FIRST FLOOR LIGHTING PLAN - UNIT G

EL11G

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SECOND FLOOR LIGHTING PLAN - UNIT B

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

ROOM LEGEND UNIT B SECOND FLOOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
B201		MECHANICAL ROOM	1923 SF
B202		DIRECTOR	224 SF
B203		PASSAGE	156 SF
B204		OFFICE	161 SF
B205		OFFICE	160 SF
B206		HR COORDINATION	199 SF
B207		DIRECTOR OF SAFETY	212 SF
B208		CORRIDOR	384 SF
B209		DIRECTOR OF CURRICULUM	188 SF
B210		CURRICULUM OFFICE	173 SF
B211		CURRICULUM OFFICE	151 SF
B212		DIRECTOR OF CURRICULUM	243 SF
B213		LOBBY	173 SF
B214		PASSAGE	78 SF
B215		CURRICULUM ADMIN ASST	175 SF
B216		LOBBY	316 SF
B217		PROGRAM DIRECTOR OF STUDENT SERVICES	243 SF
B218		ASSISTANT DIRECTOR	200 SF
B219		ASSISTANT DIRECTOR	190 SF
B220		DIRECTOR OF UNIFIED STUDENT SERVICES	245 SF
B221		SPECIAL EDUCATION OFFICE	153 SF
B222		SECURE STORAGE	63 SF
B223		SPECIAL EDUCATION ADMIN ASST	144 SF
B224		PASSAGE	263 SF
B225		SPECIAL ED STORAGE	151 SF
B226		CONFERENCE ROOM	206 SF
B227		TOUCHDOWN AREA	72 SF
B228		STORAGE	63 SF
B229		PUBLIC RELATIONS	190 SF
B230		CORRIDOR	569 SF
B231		CUSTODIAL	60 SF
B232		RESTROOM	260 SF
B233		RESTROOM	245 SF
B234		CORRIDOR	170 SF
B235		CORRIDOR	416 SF
B236		LOBBY	246 SF
B237		OFFICE LIBRARY	266 SF
B238		SUPERINTENDENT	445 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINALCONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
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6. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
7. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.
8. EMERGENCY LIGHT FIXTURES THAT ARE IN THE PATH OF EGRESS DO NOT REQUIRE AN EMERGENCY TRANSFER DEVICE.
9. MC CABLING CAN BE USED IN SPACES ABOVE ACCESSABLE CEILINGS FOR BRANCH WIRING. IN CONCRETE MASONRY WALLS EXPOSED AREAS AND ALL TECHNOLOGY CABINETS CONDUITS ARE TO BE PROVIDED.

SHEET KEYNOTES

L3	MOUNT LIGHT FIXTURES IN THE ROOM TO MISS MECHANICAL EQUIPMENT.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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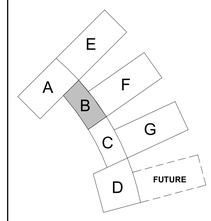
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KEY PLAN

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ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE10800026 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

SECOND FLOOR LIGHTING PLAN - UNIT B

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SECOND FLOOR LIGHTING PLAN - UNIT C

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

ROOM LEGEND UNIT C SECOND FLOOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
C201		MECHANICAL ROOM	1241 SF
C202		LOUNGE	989 SF
C203		TOUCHDOWN AREA	606 SF
C204		ADMIN. ASSISTANT	164 SF
C205		ASSISTANT SUPERINTENDENT	268 SF
C206		ASSISTANT SUPERINTENDENT	282 SF
C207		PASSAGE	138 SF
C208		HEAT PUMP CLOSET	51 SF
C209		STORAGE	103 SF
C210		SHARED CONFERENCE	406 SF
C211		CFO	353 SF
C212		BUSINESS OFFICE	152 SF
C213		BUSINESS OFFICE	231 SF
C214		CORRIDOR	236 SF
C215		BUSINESS OFFICE	156 SF
C216		LOBBY	215 SF
C217		STORAGE	102 SF
C218		BUSINESS OFFICE	153 SF
C219		BUSINESS OFFICE	154 SF
C220		TOILET	79 SF
C221		CUSTODIAL	78 SF
C222		SECURE STORAGE	149 SF
C223		FUTURE OFFICE	149 SF
C224		OPERATIONS OFFICE	167 SF
C225		DIRECTOR OF OPERATIONS	275 SF
C226		OPEN OFFICE	674 SF
C227		OFFICE	152 SF
C228		FUTURE OFFICE	153 SF
C229		CHIEF TECHNOLOGY OFFICER	238 SF
C230		TECH CONFERENCE	177 SF
C231		CORRIDOR	765 SF
C232		STORAGE	121 SF
C233		HEAT PUMP CLOSET	51 SF

ROOM LEGEND STAIRS

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
S-2		STAIR	346 SF

ROOM LEGEND ELEVATOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
E-2		ELEVATOR	75 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINALCONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
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6. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
7. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.
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9. MC CABLING CAN BE USED IN SPACES ABOVE ACCESSABLE CEILINGS FOR BRANCH WIRING. IN CONCRETE MASONRY WALLS EXPOSED AREAS AND ALL TECHNOLOGY CABINETS CONDUITS ARE TO BE PROVIDED.

SHEET KEYNOTES

L3	MOUNT LIGHT FIXTURES IN THE ROOM TO MISS MECHANICAL EQUIPMENT.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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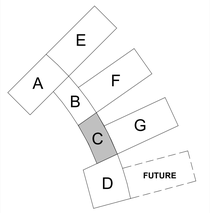
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KEY PLAN

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ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE10809 STATE OF INDIANA PROFESSIONAL ENGINEER

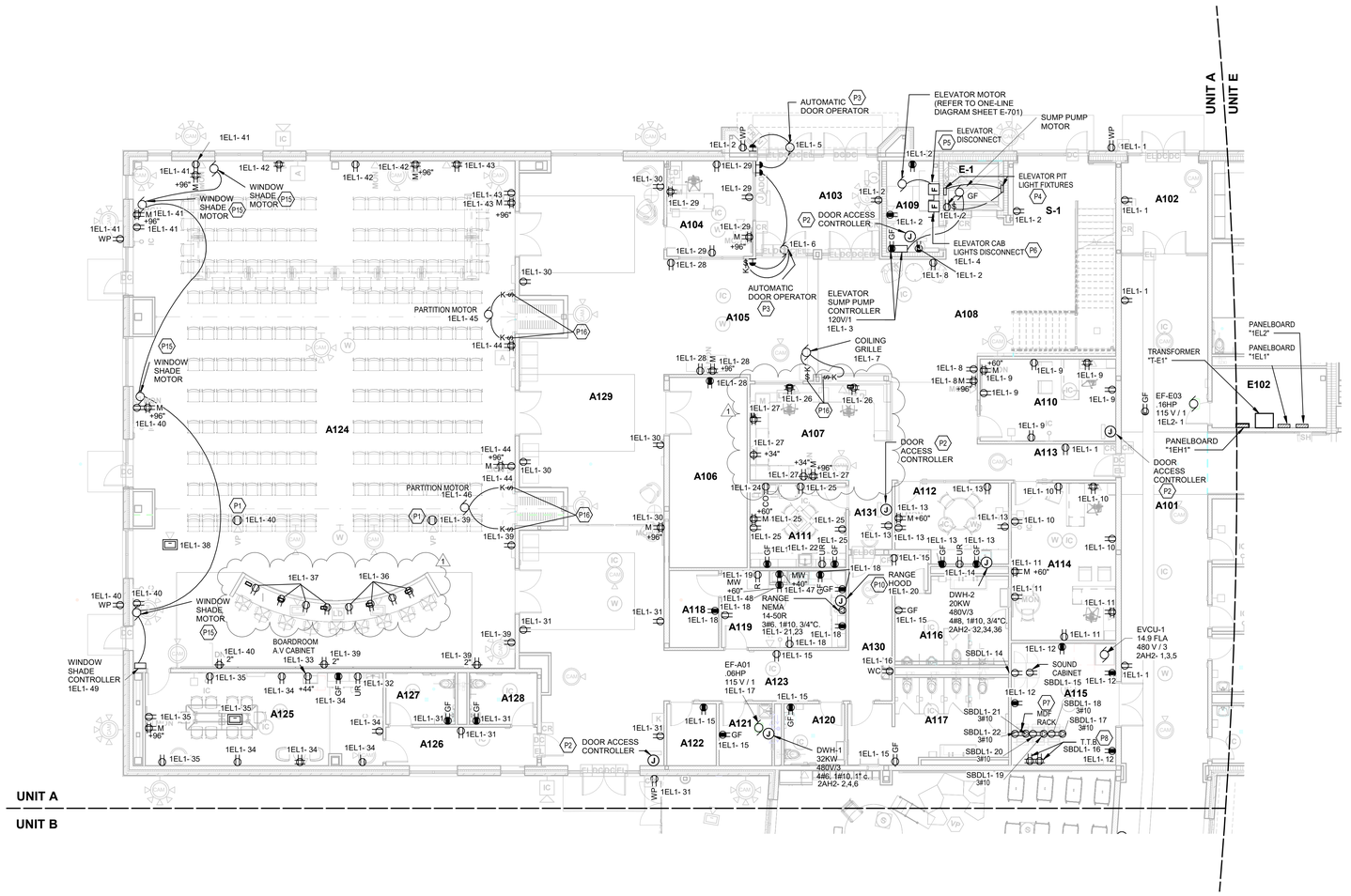
PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

SECOND FLOOR LIGHTING PLAN - UNIT C

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FIRST FLOOR POWER PLAN - UNIT A

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

ROOM LEGEND UNIT A

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
A101		CORRIDOR	868 SF
A102		VESTIBULE	155 SF
A103		VESTIBULE	222 SF
A104		SRO	158 SF
A105		<varies>	358 SF
A106		STORAGE	285 SF
A107		<varies>	<varies>
A108		LOBBY	<varies>
A109		ELEVATOR EQUIPMENT	92 SF
A110		COMMUNITY RELATIONS OFFICE	214 SF
A111		WORKROOM	156 SF
A112		CONFERENCE ROOM	167 SF
A113		PASSAGE	91 SF
A114		ZEF FOUNDATION OFFICE	317 SF
A115		TECHNOLOGY	245 SF
A116		MEN'S RESTROOM	<varies>
A117		WOMEN'S RESTROOM	233 SF
A118		STORAGE	73 SF
A119		CATERING/KITCHENETTE	184 SF
A120		FAMILY RESTROOM	72 SF
A121		CUSTODIAL	63 SF
A122		STORAGE	59 SF
A123		PASSAGE	177 SF
A124		BOARD ROOM	<varies>
A125		CONFERENCE ROOM	423 SF
A126		PASSAGE	112 SF
A127		RESTROOM	69 SF
A128		RESTROOM	67 SF
A129		CORRIDOR	1544 SF
A130		PASSAGE	146 SF
A131		PASSAGE	58 SF

ROOM LEGEND STAIRS

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
S-1		STAIR	382 SF

ROOM LEGEND ELEVATOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
E-1		ELEVATOR	58 SF

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 /N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.
10. ALL DUPLEX RECEPTACLES IN THE BUILDING ARE TO BE TAMPER RESISTANT.
11. MC CABLING CAN BE USED IN SPACES ABOVE ACCESSIBLE CEILINGS FOR BRANCH WIRING. IN CONCRETE MASONRY WALLS, EXPOSED AREAS AND ALL TECHNOLOGY CABINETS CONDUITS ARE TO BE PROVIDED.

SHEET KEYNOTES

P1	CEILING MOUNTED DUPLEX RECEPTACLE TO BE MOUNTED ADJACENT TO CEILING MOUNTED VIDEO PROJECTOR. VERIFY EXACT LOCATION IN THE FIELD.
P2	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST RECEPTACLE CIRCUIT.
P3	AUTOMATIC DOOR OPERATOR MOTOR, PUSH BUTTONS, AND KEYED SWITCH BY THE UNIT MANUFACTURER. CONDUITS, WIRING, AND BACKBOXES BY THE DIVISION 26 CONTRACTORS PER THE MANUFACTURERS REQUIREMENT. VERIFY THE EXACT LOCATION OF DEVICES PRIOR TO ROUGH-IN.
P4	COORDINATE LOCATION OF LIGHT SWITCH AND LIGHT FIXTURES IN THE ELEVATOR PIT WITH THE ELEVATOR INSTALLER PRIOR TO ROUGH-IN. TAP THE SOURCE SIDE OF THE PIT RECEPTACLE FOR THE 120V LIGHT FIXTURES. LIGHT FIXTURE IS TO BE A 54 WATT, LED, 120V, 4-FOOT LONG, WALL MOUNTED, VANDAL RESISTANT WRAP AROUND FOR HIGH ABUSE AREAS. PROVIDE WITH AN EMERGENCY BATTERY BACKUP. MANUFACTURERS FAIL-SAFE FPS SERIES, KENALL M1048 SERIES, LUMINAIRE LEDLVP751 SERIES AND ECLIPSE 714 LED SERIES.
P5	PROVIDE AN ELEVATOR DISCONNECT PER THE MANUFACTURERS RECOMMENDATIONS, WITH A SHUNT-TRIP DEVICE IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL CODE REQUIREMENTS.
P6	PROVIDE AN ELEVATOR CAB LIGHTS DISCONNECT SWITCH PER THE MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL CODE REQUIREMENTS.
P7	TECHNOLOGY RACK RECEPTACLES. COORDINATE MOUNTING LOCATIONS AND INSTALLATION REQUIREMENTS WITH THE TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE NO. 10 CONDUCTORS.
P8	MAIN TECHNOLOGY RACK(MDF) BACKBOARD RECEPTACLES. REFER TO DETAIL "1B/E-501" FOR MOUNTING LOCATIONS AND ADDITIONAL REQUIREMENTS. PROVIDE NO. 10 CONDUCTORS.
P10	REFER TO THE ARCHITECTURAL EQUIPMENT DRAWING SHEETS AND DETAILS FOR EXACT MOUNTING HEIGHT OF THE RANGEHOOD PRIOR TO ROUGH-IN OF THE JUNCTION BOX.
P15	WINDOW SHADES AND CONTROLLER ARE BY THE UNIT MANUFACTURER. CONDUITS, WIRING, AND BACKBOXES ARE BY DIVISION 26 CONTRACTOR PER THE MANUFACTURERS REQUIREMENTS.
P16	CONTROLLER IS BY THE UNIT MANUFACTURER. CONDUITS, WIRING AND BACKBOXES ARE BY DIVISION 26 CONTRACTOR PER THE MANUFACTURERS REQUIREMENTS.

VERIFICATION NOTE

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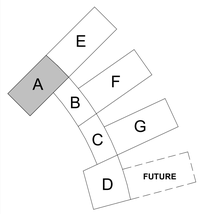
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KEY PLAN

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ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE 10809 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: JM

DRAWN BY: RDR

PROJECT NUMBER: 224033.00

PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

FIRST FLOOR POWER PLAN - UNIT A

EP11A

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FIRST FLOOR POWER PLAN - UNIT D

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

ROOM LEGEND UNIT D

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
D101		VESTIBULE	140 SF
D102		RECEPTION	753 SF
D102A		OFFICE	138 SF
D103		OFFICE	116 SF
D104		OFFICE	186 SF
D105		OFFICE	187 SF
D106		OFFICE	143 SF
D107		OFFICE	159 SF
D108		CORRIDOR	292 SF
D109		<varies>	186 SF
D110		TEACHER PREP	235 SF
D111		TOILET	68 SF
D112		TECHNOLOGY	92 SF
D113		TOILET	72 SF
D114		TOILET	83 SF
D115		CLINIC	481 SF
D116		HEAT PUMP CLOSET	31 SF
D117		TOILET	67 SF
D118		CORRIDOR	109 SF
D119		WORKROOM	359 SF
D120		HEAT PUMP CLOSET	30 SF
D121		CORRIDOR	520 SF
D122		LAUNDRY / CUSTODIAL	116 SF
D123		STORAGE	177 SF
D124		STORAGE	254 SF
D125		CORRIDOR	582 SF
D126		MECHANICAL / ELECTRICAL	1750 SF
D127		RECEIVING	304 SF
D128		FOOD SERVICE	1282 SF
D129		CORRIDOR	885 SF
D130		OFFICE	126 SF
D131		PASSAGE	72 SF
D132		CART WASH / LAUNDRY	129 SF
D133		TOILET	70 SF
D134		DRY STORAGE	115 SF
D135		FIRE RISER	126 SF
D136		ELECTRICAL	152 SF
D137		ELECTRICAL	65 SF
D138		CORRIDOR	599 SF

POWER PLAN GENERAL NOTES

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SHEET KEYNOTES

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P3	AUTOMATIC DOOR OPERATOR MOTOR, PUSH BUTTONS, AND KEYED SWITCH BY THE UNIT MANUFACTURER. CONDUITS, WIRING, AND BACKBOXES BY THE DIVISION 26 CONTRACTORS PER THE MANUFACTURERS REQUIREMENT. VERIFY THE EXACT LOCATION OF DEVICES PRIOR TO ROUGH-IN.
P7	TECHNOLOGY RACK RECEPTACLES. COORDINATE MOUNTING LOCATIONS AND INSTALLATION REQUIREMENTS WITH THE TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE NO. 10 CONDUCTORS.
P9	TECHNOLOGY RACK (IDF) BACKBOARD RECEPTACLES. REFER TO DETAIL "1C/E501" FOR MOUNTING LOCATIONS AND ADDITIONAL REQUIREMENTS. PROVIDE NO. 10 CONDUCTORS.
P11	PROVIDE HEALTH CARE GRADE MC CABLE OR EMT CONDUIT FOR CIRCUITS IN THIS ROOM.
P12	PUSH BUTTON CONTROLLER BY OVERHEAD DOOR MANUFACTURER. CONDUITS, BACKBOXES, AND WIRING BY DIVISION 26 CONTRACTOR, PER THE MANUFACTURERS REQUIREMENTS.

VERIFICATION NOTE

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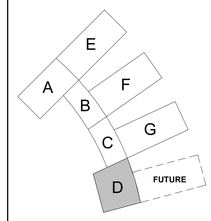
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KEY PLAN

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ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE10800026 STATE OF INDIANA PROFESSIONAL ENGINEER

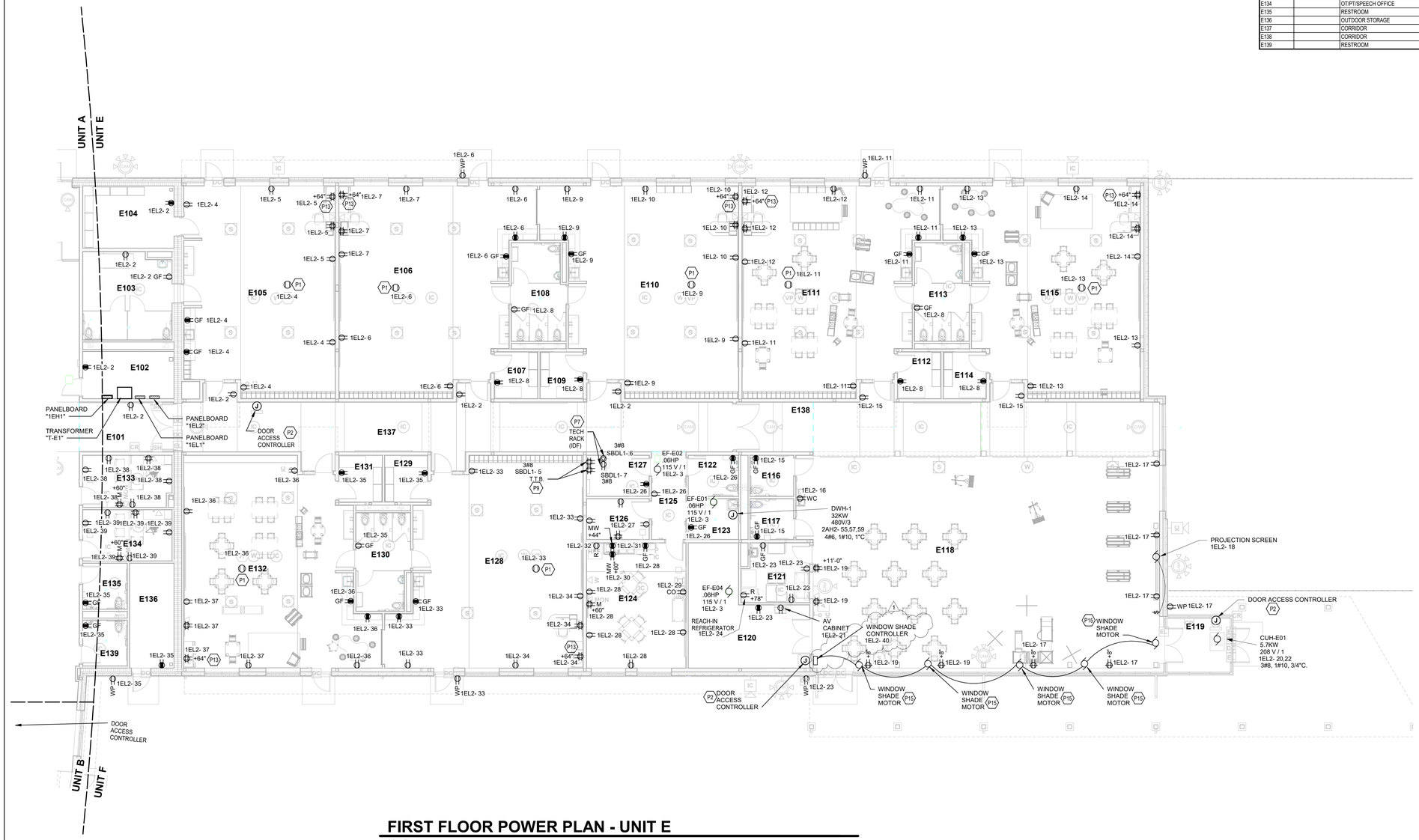
PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

FIRST FLOOR POWER PLAN - UNIT D

EP11D

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FIRST FLOOR POWER PLAN - UNIT E

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

ROOM LEGEND UNIT E

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
E101		CORRIDOR	142 SF
E102		ELECTRICAL	131 SF
E103		RESTROOM	233 SF
E104		STORAGE	172 SF
E105		CLASSROOM	943 SF
E106		CLASSROOM	1095 SF
E107		STORAGE	61 SF
E108		RESTROOM	156 SF
E109		STORAGE	61 SF
E110		CLASSROOM	1095 SF
E111		CLASSROOM	1095 SF
E112		STORAGE	61 SF
E113		RESTROOM	155 SF
E114		STORAGE	61 SF
E115		CLASSROOM	1097 SF
E116		TOILET	54 SF
E117		TOILET	54 SF
E118		MULTI-PURPOSE	<varies>
E119		VESTIBULE	111 SF
E120		STORAGE	327 SF
E121		PANTRY	118 SF
E122		STAFF TOILET	63 SF
E123		CUSTODIAL	62 SF
E124		STAFF WORKROOM	378 SF
E125		PASSAGE	91 SF
E126		BREAKOUT	77 SF
E127		TECHNOLOGY	78 SF
E128		CLASSROOM	1094 SF
E129		STORAGE	61 SF
E130		RESTROOM	156 SF
E131		STORAGE	61 SF
E132		CLASSROOM	1093 SF
E133		OT/PT/SPEECH OFFICE	138 SF
E134		OT/PT/SPEECH OFFICE	139 SF
E135		RESTROOM	62 SF
E136		OUTDOOR STORAGE	142 SF
E137		CORRIDOR	931 SF
E138		CORRIDOR	116 SF
E139		RESTROOM	62 SF

POWER PLAN GENERAL NOTES

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P9	TECHNOLOGY RACK (IDF) BACKBOARD RECEPTACLES. REFER TO DETAIL "1IC/ES01" FOR MOUNTING LOCATIONS AND ADDITIONAL REQUIREMENTS. PROVIDE NO. 10 CONDUCTORS.
P13	TEACHER WARDROBE/TECHNOLOGY CABINET POWER RECEPTACLES. REFER TO ARCHITECTURAL EQUIPMENT DRAWING SHEETS AND DETAILS FOR LOCATION OF THE OUTLETS IN THE BACK SIDE OF THE UNIT PRIOR TO ROUGH-IN OF THE RECEPTACLES BACKBOXES.
P15	WINDOW SHADES AND CONTROLLER ARE BY THE UNIT MANUFACTURER. CONDUITS, WIRING, AND BACKBOXES ARE BY DIVISION 26 CONTRACTOR PER THE MANUFACTURERS REQUIREMENTS.

VERIFICATION NOTE

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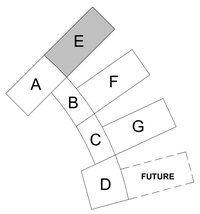
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KEY PLAN

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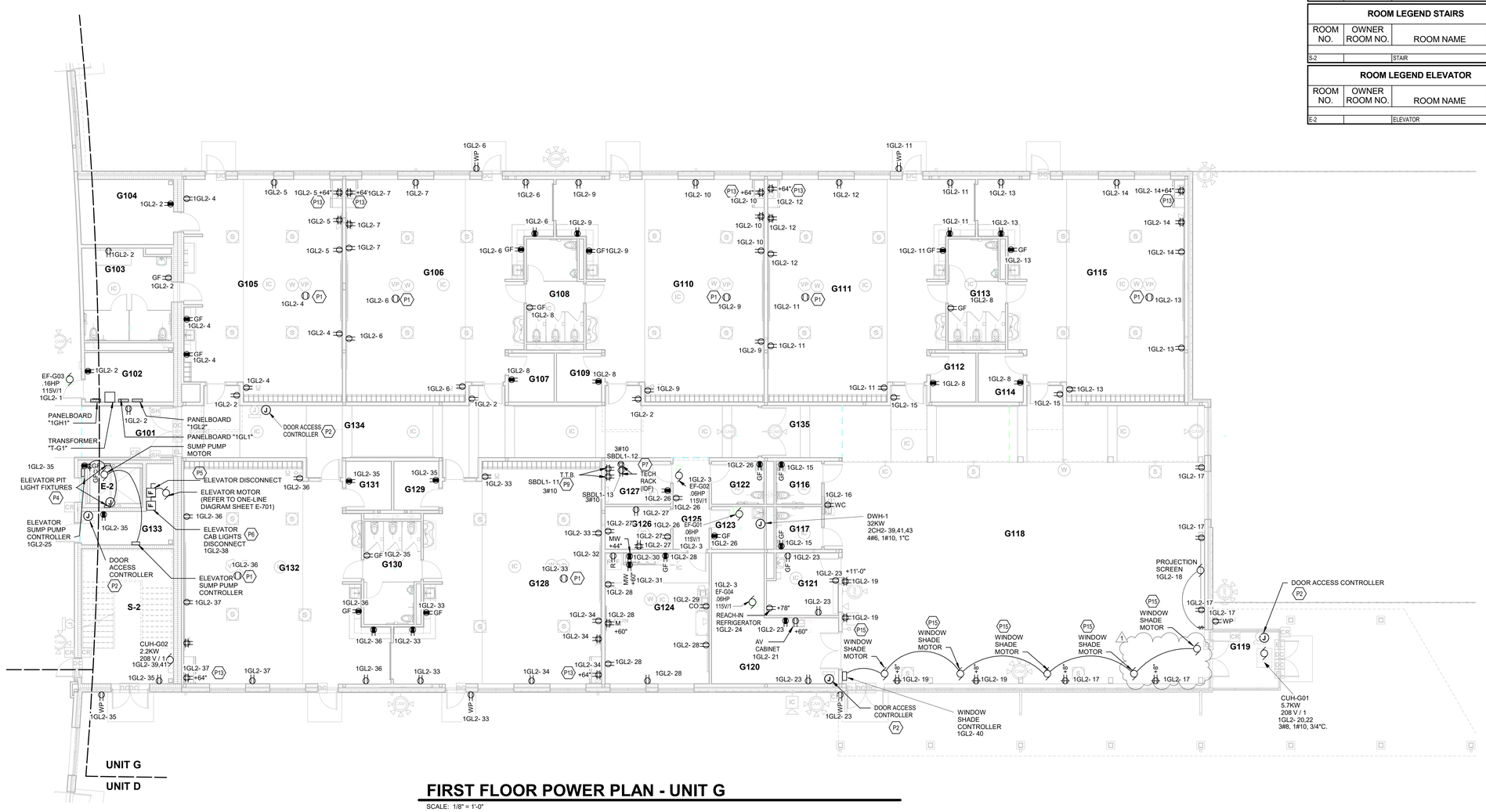
PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

FIRST FLOOR POWER PLAN - UNIT E

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FIRST FLOOR POWER PLAN - UNIT G

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

ROOM LEGEND UNIT G

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
G101		CORRIDOR	132 SF
G102		ELECTRICAL	121 SF
G103		RESTROOM	220 SF
G104		STORAGE	169 SF
G105		CLASSROOM	943 SF
G106		CLASSROOM	1095 SF
G107		STORAGE	61 SF
G108		RESTROOM	156 SF
G109		STORAGE	61 SF
G110		CLASSROOM	1095 SF
G111		CLASSROOM	1095 SF
G112		STORAGE	61 SF
G113		RESTROOM	155 SF
G114		STORAGE	61 SF
G115		CLASSROOM	1087 SF
G116		TOILET	54 SF
G117		TOILET	54 SF
G118		MULTI-PURPOSE	2879 SF
G119		VESTIBULE	111 SF
G120		STORAGE	327 SF
G121		PANTRY	117 SF
G122		STAFF TOILET	63 SF
G123		CUSTODIAL	62 SF
G124		STAFF WORKROOM	378 SF
G125		PASSAGE	91 SF
G126		BREAKOUT	77 SF
G127		TECHNOLOGY	78 SF
G128		CLASSROOM	1096 SF
G129		STORAGE	61 SF
G130		RESTROOM	155 SF
G131		STORAGE	61 SF
G132		CLASSROOM	1093 SF
G133		ELEVATOR EQUIPMENT	122 SF
G134		CORRIDOR	931 SF
G135		CORRIDOR	116 SF

ROOM LEGEND STAIRS

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
S-2		STAIR	346 SF

ROOM LEGEND ELEVATOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
E-2		ELEVATOR	75 SF

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P7	TECHNOLOGY RACK RECEPTACLES. COORDINATE MOUNTING LOCATIONS AND INSTALLATION REQUIREMENTS WITH THE TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE NO. 10 CONDUCTORS.
P9	TECHNOLOGY RACK (IDF) BACKBOARD RECEPTACLES. REFER TO DETAIL "1/CE501" FOR MOUNTING LOCATIONS AND ADDITIONAL REQUIREMENTS. PROVIDE NO. 10 CONDUCTORS.
P13	TEACHER WARDROBE/TECHNOLOGY CABINET POWER RECEPTACLES. REFER TO ARCHITECTURAL EQUIPMENT DRAWING SHEETS AND DETAILS FOR LOCATION OF THE OUTLETS IN THE BACK SIDE OF THE UNIT PRIOR TO ROUGH-IN OF THE RECEPTACLES BACKBOXES.
P15	WINDOW SHADES AND CONTROLLER ARE BY THE UNIT MANUFACTURER. CONDUITS, WIRING, AND BACKBOXES ARE BY DIVISION 26 CONTRACTOR PER THE MANUFACTURERS REQUIREMENTS.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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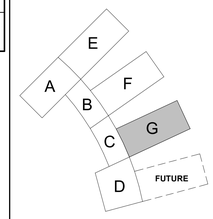
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KEY PLAN

N

ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE 10000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: JM

DRAWN BY: RDR

PROJECT NUMBER: 224033.00

PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

FIRST FLOOR POWER PLAN - UNIT G

EP11G

Autodesk Docs://Zionsville ELC/2023_ELEC_224033.00.rvt
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ROOM LEGEND UNIT A SECOND FLOOR

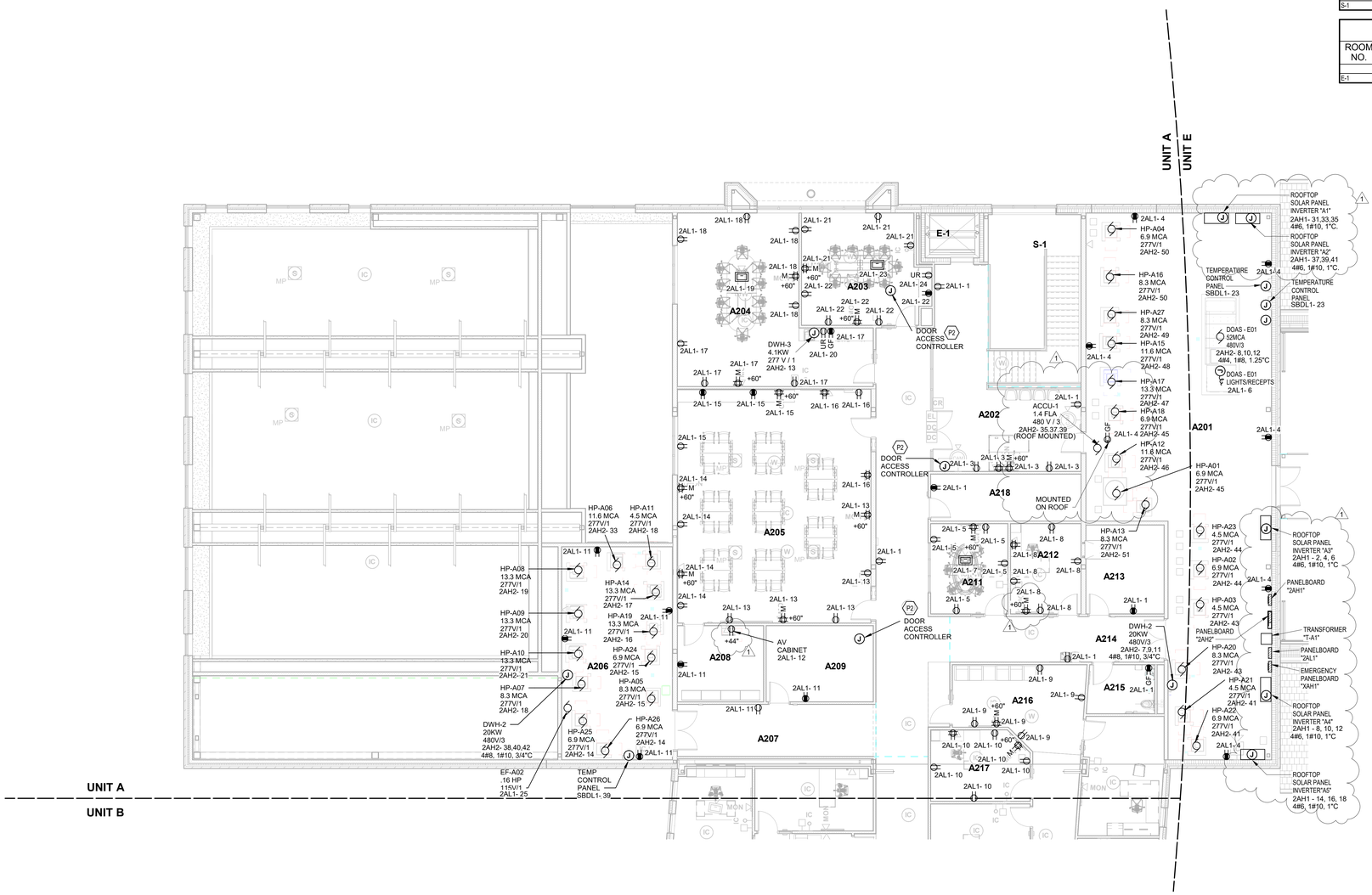
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
A201		MECHANICAL ROOM	1932 SF
A202		<varies>	457 SF
A203		CONFERENCE ROOM	316 SF
A204		CONFERENCE ROOM	600 SF
A205		TEAM SAFETY	1067 SF
A206		MECHANICAL ROOM	556 SF
A207		CORRIDOR	244 SF
A208		SAFETY STORAGE	155 SF
A209		STORAGE	192 SF
A210		CORRIDOR	596 SF
A211		HR CONFERENCE	164 SF
A212		TOUCHDOWN OFFICE	150 SF
A213		STORAGE	164 SF
A214		CORRIDOR	230 SF
A215		TOILET	77 SF
A216		LOBBY	227 SF
A217		OFFICE	161 SF
A218		<varies>	<varies>

ROOM LEGEND STAIRS

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
S-1		STAIR	382 SF

ROOM LEGEND ELEVATOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
E-1		ELEVATOR	58 SF



SECOND FLOOR POWER PLAN - UNIT A

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

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.
10. ALL DUPLEX RECEPTACLES IN THE BUILDING ARE TO BE TAMPER RESISTANT.
11. MC CABLING CAN BE USED IN SPACES ABOVE ACCESSIBLE CEILINGS FOR BRANCH WIRING. IN CONCRETE MASONRY WALLS, EXPOSED AREAS AND ALL TECHNOLOGY CABINETS CONDUITS ARE TO BE PROVIDED.

SHEET KEYNOTES

P2	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST RECEPTACLE CIRCUIT.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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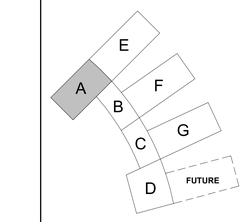
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KEY PLAN

N

ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE10800026 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

SECOND FLOOR POWER PLAN - UNIT A

EP12A

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ROOM LEGEND UNIT B SECOND FLOOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
B201		MECHANICAL ROOM	1923 SF
B202		DIRECTOR	224 SF
B203		PASSAGE	156 SF
B204		OFFICE	161 SF
B205		OFFICE	160 SF
B206		HR COORDINATION	199 SF
B207		DIRECTOR OF SAFETY	212 SF
B208		CORRIDOR	384 SF
B209		DIRECTOR OF CURRICULUM	188 SF
B210		CURRICULUM OFFICE	173 SF
B211		CURRICULUM OFFICE	151 SF
B212		DIRECTOR OF CURRICULUM	243 SF
B213		LOBBY	173 SF
B214		PASSAGE	78 SF
B215		CURRICULUM ADMIN ASST	175 SF
B216		LOBBY	316 SF
B217		PROGRAM DIRECTOR OF STUDENT SERVICES	243 SF
B218		ASSISTANT DIRECTOR	200 SF
B219		ASSISTANT DIRECTOR	190 SF
B220		DIRECTOR OF UNIFIED STUDENT SERVICES	245 SF
B221		SPECIAL EDUCATION OFFICE	153 SF
B222		SECURE STORAGE	63 SF
B223		SPECIAL EDUCATION ADMIN ASST	144 SF
B224		PASSAGE	263 SF
B225		SPECIAL ED STORAGE	151 SF
B226		CONFERENCE ROOM	206 SF
B227		<varies>	<varies>
B228		STORAGE	63 SF
B229		PUBLIC RELATIONS	190 SF
B230		CORRIDOR	569 SF
B231		CUSTODIAL	60 SF
B232		RESTROOM	<varies>
B233		RESTROOM	245 SF
B234		CORRIDOR	170 SF
B235		CORRIDOR	416 SF
B236		LOBBY	246 SF
B237		OFFICE LIBRARY	266 SF
B238		SUPERINTENDENT	445 SF



SECOND FLOOR POWER PLAN - UNIT B

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

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.
10. ALL DUPLEX RECEPTACLES IN THE BUILDING ARE TO BE TAMPER RESISTANT.
11. MC CABLING CAN BE USED IN SPACES ABOVE ACCESSIBLE CEILINGS FOR BRANCH WIRING. IN CONCRETE MASONRY WALLS, EXPOSED AREAS AND ALL TECHNOLOGY CABINETS CONDUITS ARE TO BE PROVIDED.

SHEET KEYNOTES

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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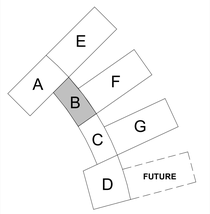
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KEY PLAN

N

ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE19900108 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

SECOND FLOOR POWER PLAN - UNIT B

EP12B

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SECOND FLOOR POWER PLAN - UNIT C

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

ROOM LEGEND UNIT C SECOND FLOOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
C201		MECHANICAL ROOM	1241 SF
C202		LOUNGE	989 SF
C203		TOUCHDOWN AREA	606 SF
C204		ADMIN. ASSISTANT	164 SF
C205		ASSISTANT SUPERINTENDENT	268 SF
C206		ASSISTANT SUPERINTENDENT	282 SF
C207		PASSAGE	138 SF
C208		HEAT PUMP CLOSET	51 SF
C209		STORAGE	103 SF
C210		SHARED CONFERENCE	406 SF
C211		CFO	353 SF
C212		BUSINESS OFFICE	152 SF
C213		BUSINESS OFFICE	231 SF
C214		CORRIDOR	236 SF
C215		BUSINESS OFFICE	156 SF
C216		LOBBY	215 SF
C217		STORAGE	102 SF
C218		BUSINESS OFFICE	153 SF
C219		BUSINESS OFFICE	154 SF
C220		TOILET	79 SF
C221		CUSTODIAL	78 SF
C222		SECURE STORAGE	149 SF
C223		FUTURE OFFICE	149 SF
C224		OPERATIONS OFFICE	167 SF
C225		DIRECTOR OF OPERATIONS	275 SF
C226		OPEN OFFICE	674 SF
C227		OFFICE	152 SF
C228		FUTURE OFFICE	153 SF
C229		CHIEF TECHNOLOGY OFFICER	238 SF
C230		TECH CONFERENCE	177 SF
C231		CORRIDOR	765 SF
C232		STORAGE	121 SF
C233		HEAT PUMP CLOSET	51 SF
C246		MECHANICAL ROOM	1241 SF
C235		TOILET	79 SF
C247		STORAGE	121 SF

ROOM LEGEND STAIRS

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
S-2		STAIR	346 SF

ROOM LEGEND ELEVATOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
E-2		ELEVATOR	75 SF

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
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SHEET KEYNOTES

P15	WINDOW SHADES AND CONTROLLER ARE BY THE UNIT MANUFACTURER. CONDUITS, WIRING, AND BACKBOXES ARE BY DIVISION 26 CONTRACTOR PER THE MANUFACTURERS REQUIREMENTS.

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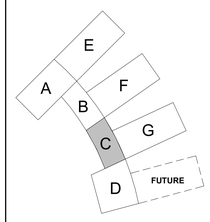
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KEY PLAN

ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE10800 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

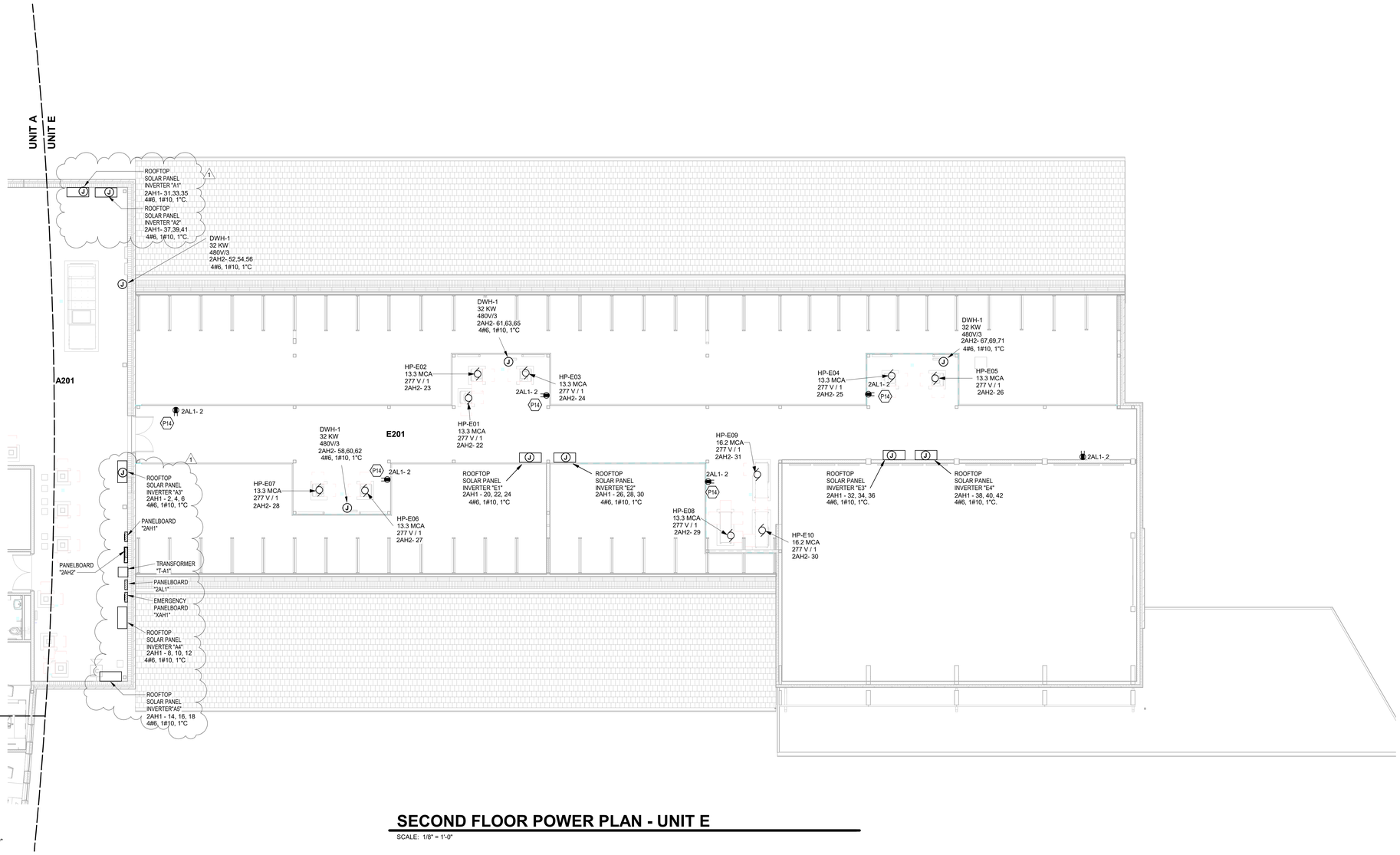
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SECOND FLOOR POWER PLAN - UNIT C

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ROOM LEGEND UNIT E SECOND FLOOR			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
E201		INTERSTITIAL SPACE	2258 SF



SECOND FLOOR POWER PLAN - UNIT E

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

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
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5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
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10. ALL DUPLEX RECEPTACLES IN THE BUILDING ARE TO BE TAMPER RESISTANT.
11. MC CABLING CAN BE USED IN SPACES ABOVE ACCESSIBLE CEILINGS FOR BRANCH WIRING. IN CONCRETE MASONRY WALLS, EXPOSED AREAS AND ALL TECHNOLOGY CABINETS CONDUITS ARE TO BE PROVIDED.

SHEET KEYNOTES

P14	MOUNT DUPLEX RECEPTACLE TO THE RAILING AT 44-INCHES A.F.F AT THIS LOCATION.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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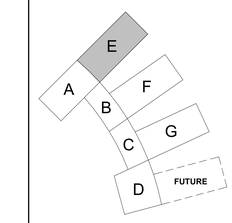
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KEY PLAN

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ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE19930028 STATE OF INDIANA PROFESSIONAL ENGINEER

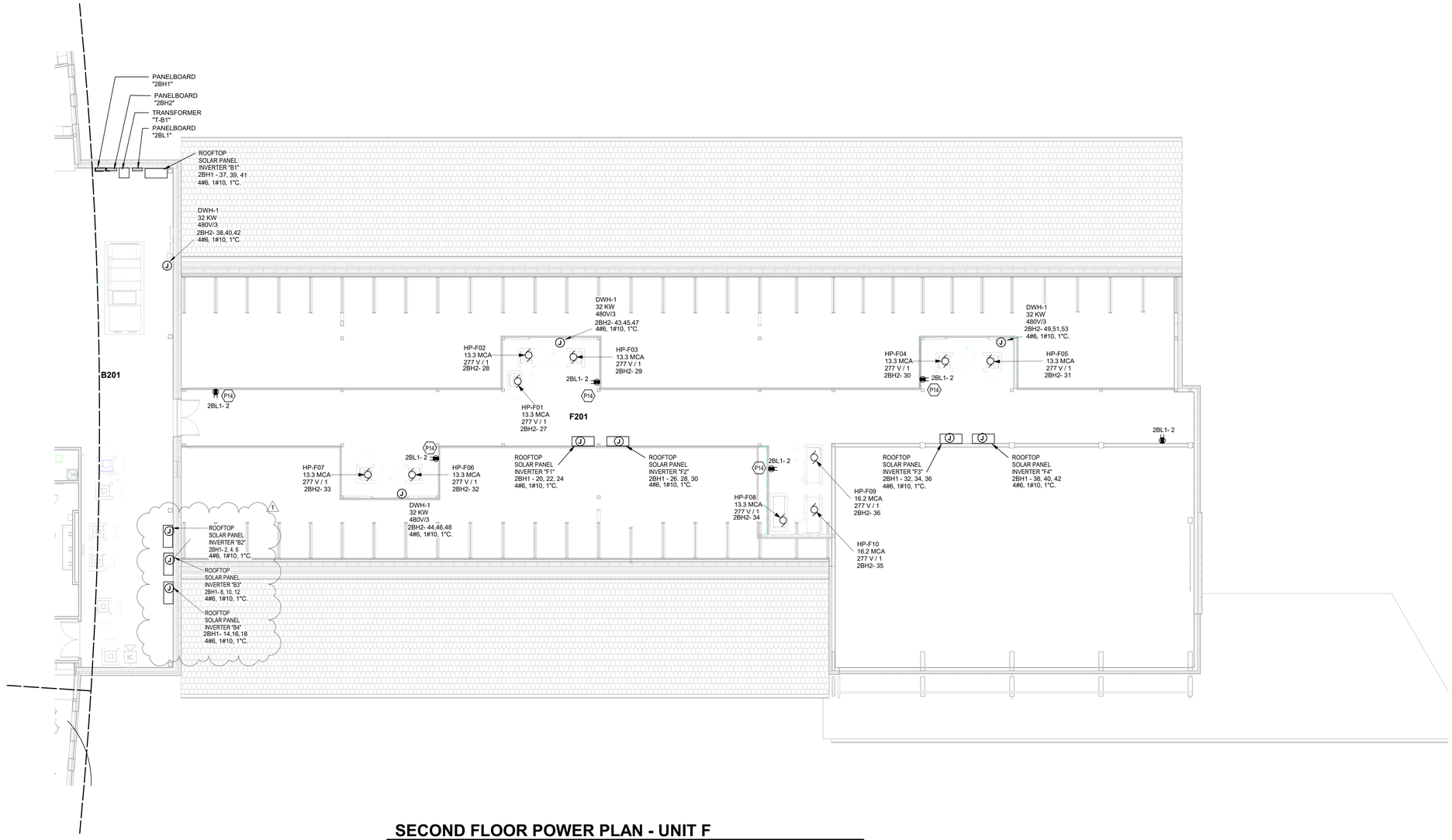
PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

SECOND FLOOR POWER PLAN - UNIT E

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SECOND FLOOR POWER PLAN - UNIT F

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

ROOM LEGEND UNIT F SECOND FLOOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
F201		INTERSTITIAL SPACE	2246 SF

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
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5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 /N.E.C./ REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.
10. ALL DUPLEX RECEPTACLES IN THE BUILDING ARE TO BE TAMPER RESISTANT.
11. MC CABLING CAN BE USED IN SPACES ABOVE ACCESSIBLE CEILINGS FOR BRANCH WIRING. IN CONCRETE MASONRY WALLS, EXPOSED AREAS AND ALL TECHNOLOGY CABINETS CONDUITS ARE TO BE PROVIDED.

SHEET KEYNOTES

P14	MOUNT DUPLEX RECEPTACLE TO THE RAILING AT 44-INCHES A.F.F AT THIS LOCATION.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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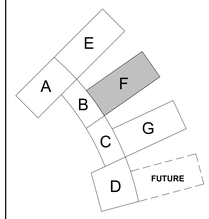
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KEY PLAN

N

ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE19930028 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

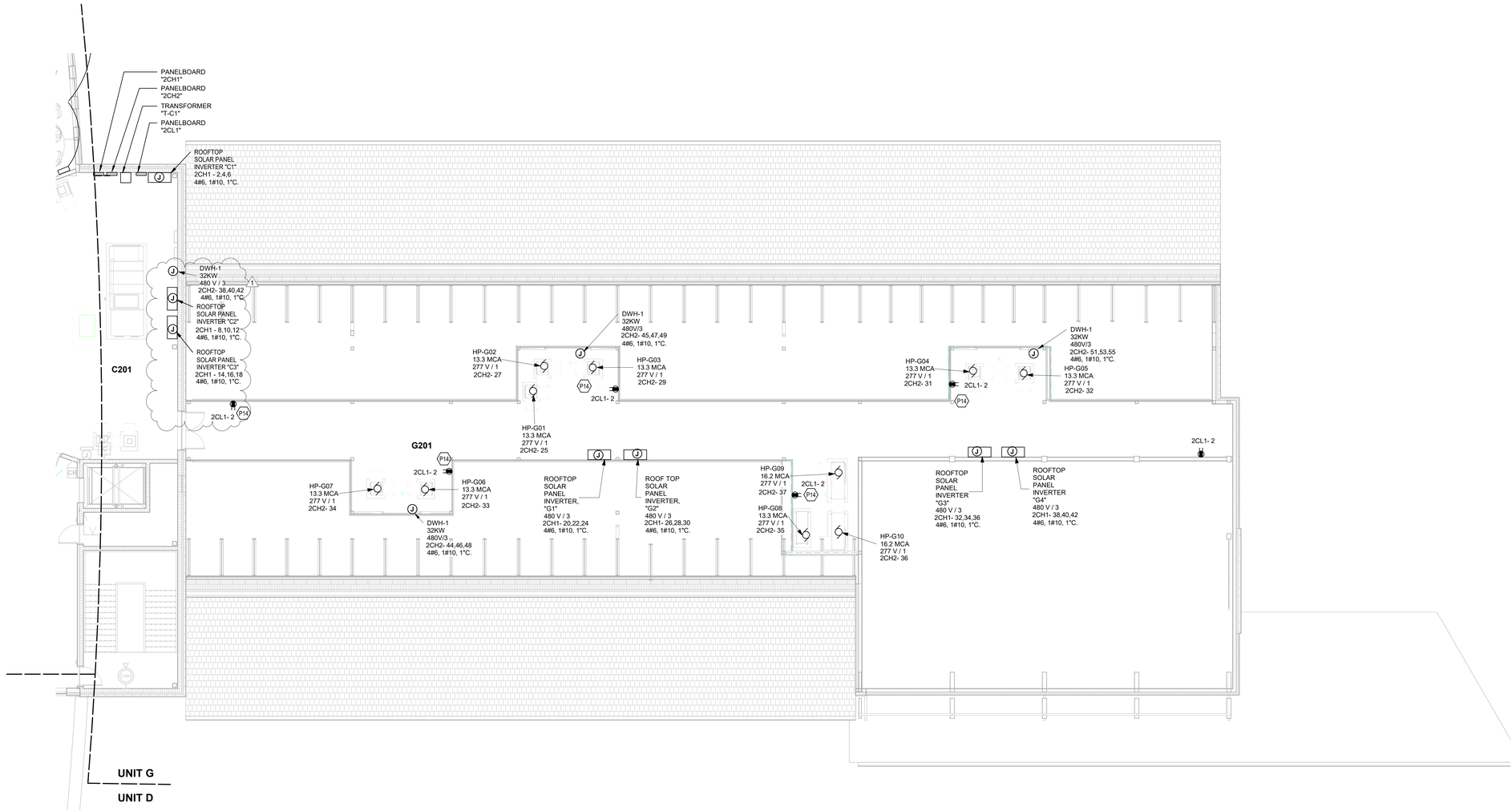
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

SECOND FLOOR POWER PLAN - UNIT F

EP12F

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ROOM LEGEND UNIT G SECOND FLOOR			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
G201		INTERSTITIAL SPACE	2246 SF



SECOND FLOOR POWER PLAN - UNIT G

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

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.
10. ALL DUPLEX RECEPTACLES IN THE BUILDING ARE TO BE TAMPER RESISTANT.
11. MC CABLING CAN BE USED IN SPACES ABOVE ACCESSIBLE CEILINGS FOR BRANCH WIRING. IN CONCRETE MASONRY WALLS, EXPOSED AREAS AND ALL TECHNOLOGY CABINETS CONDUITS ARE TO BE PROVIDED.

SHEET KEYNOTES

P14	MOUNT DUPLEX RECEPTACLE TO THE RAILING AT 44-INCHES A.F.F AT THIS LOCATION.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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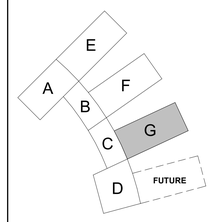
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KEY PLAN

N

ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE10102026 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

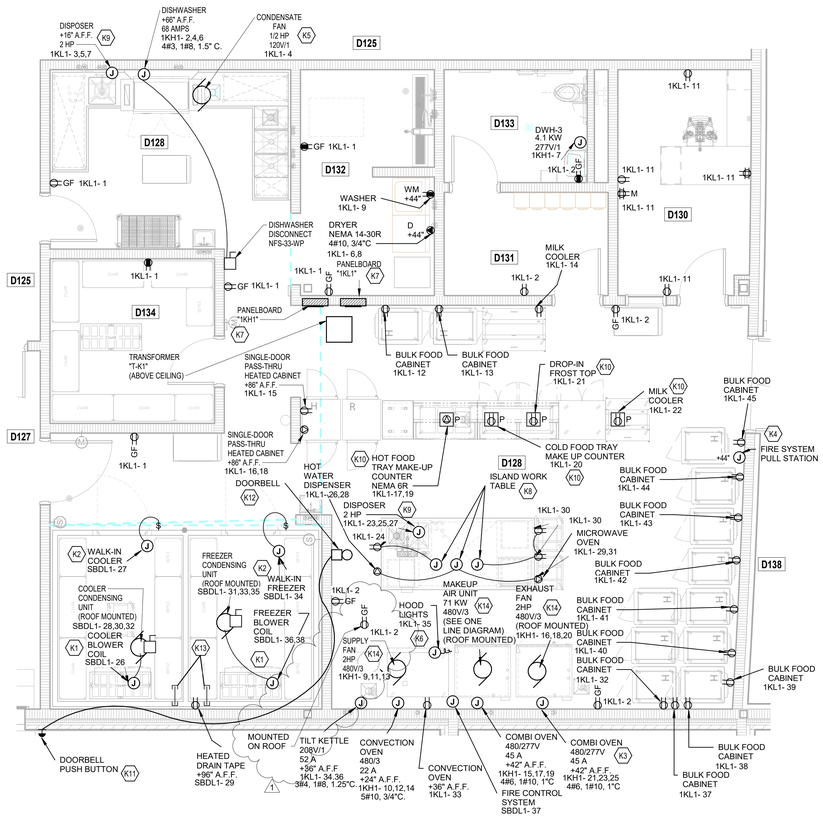
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

SECOND FLOOR POWER PLAN - UNIT G

EP12G

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ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
D125		CORRIDOR	582 SF
D126		MECHANICAL / ELECTRICAL	1750 SF
D127		RECEIVING	304 SF
D128		FOOD SERVICE	1282 SF
D130		OFFICE	126 SF
D131		PASSAGE	72 SF
D132		CART WASH / LAUNDRY	129 SF
D133		TOILET	70 SF
D134		DRY STORAGE	115 SF
D138		CORRIDOR	599 SF



KITCHEN POWER PLAN

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

KITCHEN PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 /N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

K1	PROVIDE CONDUIT AND WIRING TO THERMOSTAT, SOLENOID, DRAIN LINE HEATER AND REMOTE TIMER ON COMPRESSOR. REFER TO THE WIRING DIAGRAM ON THE "FS" DRAWING SHEETS.
K2	PROVIDE BRANCH CIRCUIT WIRING TO UNIT MOUNTED JUNCTION BOX. FROM JUNCTION BOX TO LIGHT FIXTURES, PERIMETER DOOR HEATERS AND AIR RELIEF VENT HEATERS. WIRING SHALL BE INSTALLED OUTSIDE OF COOLER/FREEZER WALLS AND CEILINGS. FINAL CONNECTION PENETRATIONS SHALL BE PROVIDED WITH SEAL-OFFS.
K3	FIRE CONTROL SYSTEM.
K4	PROVIDE A 4" OCTAGON JUNCTION BOX, FLUSH MOUNTED AT 44" A.F.F. PROVIDE A 1/2" CONDUIT STUBBED UP 6" ABOVE LAY-IN CEILING FOR USE BY OTHERS. VERIFY LOCATION WITH FOOD SERVICE EQUIPMENT CONTRACTOR PRIOR TO ROUGH-IN.
K5	WIRE TO DISHWASHER CONTROL PANEL.
K6	PROVIDE WIRING FROM JUNCTION BOX TO CANOPY LIGHT FIXTURES AND TO CANOPY LIGHT FIXTURES AND TO CANOPY LIGHT SWITCH. VERIFY EXACT LOCATION IN THE FIELD.
K7	PROVIDE KITCHEN PANELBOARD WITH STAINLESS STEEL DOORS AND COVERS.
K8	EXTEND BRANCH CIRCUIT WIRING TO JUNCTION BOX PREMOUNTED ON TABLE AND CONNECT TO PREWIRED TABLE MOUNTED RECEPTACLES.
K9	PROVIDE WIRING FROM JUNCTION BOX TO CONTROL PANEL AND TO SOLENOID AND DISPOSER.
K10	PROVIDE A PEDESTAL TYPE FLOOR RECEPTACLE AT THIS LOCATION.
K11	PROVIDE A HEAVY DUTY, NON-ILLUMINATED MOMENTARY PUSH BUTTON. PROVIDE A FULL GUARD, BLACK PUSH BUTTON, 1 N.O. AND 1 N.C. CONTACT. DEVICE TO BE A SQUARE-D #9001KRIB-KRIBH13.
K12	PROVIDE A BEIGE 4 INCH SURFACE MOUNTED 120V BELL THAT IS RATED 80-DB AT 10 FEET.
K13	STUB A 3/4" CONDUIT FROM COMPRESSOR TO INSIDE OF THE BUILDING ABOVE THE CEILING FOR THE WARNING ALARMS.
K14	PROVIDE WIRING FROM CONTROLS TO THE ROOF MOUNTED VENTILATION SYSTEM.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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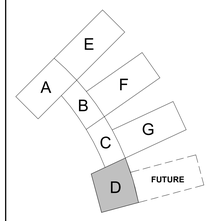
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KEY PLAN

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ISSUED FOR BID



PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

KITCHEN POWER PLAN

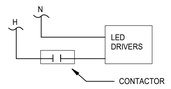
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LIGHTING SEQUENCE OF OPERATIONS NOTES:

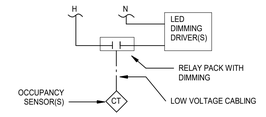
1. PROVIDE RELAY PACKS AS REQUIRED TO PERFORM NECESSARY SEQUENCE OF OPERATIONS FOR EACH LISTED ABOVE.
2. PROVIDE LOW VOLTAGE WIRING PER MANUFACTURERS RECOMMENDATION.
3. ALL SWITCHES SHALL BE DECOR STYLE.
4. WHERE MULTIPLE CONTROL SWITCHES ARE IN THE SAME LOCATION, THEY SHALL BE IN THE SAME BACK BOX WITH SINGLE FACE PLATE
5. QUANTITY OF OCCUPANCY/VACANCY SENSORS, DAYLIGHT SENSORS, AND SWITCHES SHALL BE PER PLANS.

1. FIXTURES SHALL BE CONTROLLED BY BUILDING AUTOMATION SYSTEM.
2. EMERGENCY FIXTURES SHALL OPERATE AS DESCRIBED ABOVE DURING NORMAL OPERATIONS. IN EMERGENCY SCENARIO, FIXTURES WILL COME AT 100% OUTPUT. THIS CAN BE ACHIEVED WITH FULL CIRCUIT GENERATOR TRANSFER DEVICE.



2E LIGHTING CONTROL - BUILDING EXTERIOR
NOT TO SCALE

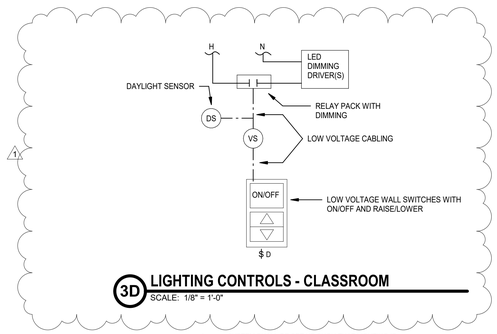
1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING IS AUTOMATICALLY SWITCHED ON UPON OCCUPANCY. LIGHTING IS SWITCHED OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES OF ROOM VACANCY.
2. EMERGENCY FIXTURES SHALL OPERATE AS DESCRIBED ABOVE DURING NORMAL OPERATIONS. IN EMERGENCY SCENARIO, FIXTURES WILL COME ON AT 100% OUTPUT. THIS CAN BE ACHIEVED WITH FULL CIRCUIT GENERATOR TRANSFER DEVICE.



1E LIGHTING CONTROL - LOBBIES/VESTIBULES
NOT TO SCALE

LIGHTING SEQUENCE OF OPERATIONS - CLASSROOM:

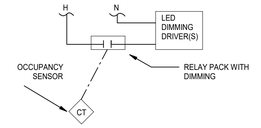
1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING IS MANUALLY SWITCHED ON AND AUTOMATICALLY SWITCHED OFF BY VACANCY SENSOR AFTER 15 MINUTES OF ROOM VACANCY.
2. S1 - CONTROLS TEACHING WALL FIXTURES.
3. S2 - CONTROLS REST OF ROOM FIXTURES.
4. ONCE LIGHTING IS SWITCHED ON, LIGHTS MAY BE DIMMED THROUGH RAISE/LOWER BUTTONS ON WALL SWITCH.
5. DAYLIGHT SENSOR TO CONTINUOUSLY DIM DAYLIGHT ZONES 1 AND 2 WITH A SET POINT OF 45 FC.



3D LIGHTING CONTROLS - CLASSROOM
SCALE: 1/8" = 1'-0"

LIGHTING SEQUENCE OF OPERATIONS - STAIRWELL:

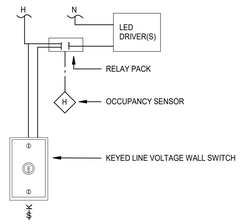
1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING IS AUTOMATICALLY SWITCHED ON TO 90% UPON OCCUPANCY. LIGHTING LEVEL WHILE OCCUPIED IS TO BE OVERRIDDEN BY APPLICABLE DAYLIGHT SENSOR. LIGHTING IS SWITCHED TO 50% BY OCCUPANCY SENSOR AFTER 15 MINUTES OF ROOM VACANCY.
2. EMERGENCY FIXTURES SHALL OPERATE AS DESCRIBED ABOVE DURING NORMAL OPERATIONS. IN EMERGENCY SCENARIO, FIXTURES WILL COME ON AT 100% OUTPUT. THIS CAN BE ACHIEVED WITH FULL CIRCUIT GENERATOR TRANSFER DEVICE.



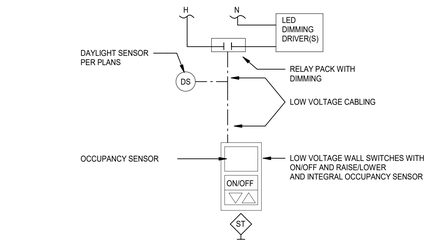
1D LIGHTING CONTROL - STAIRWELL
NOT TO SCALE

1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING IS MANUALLY SWITCHED ON. LIGHTING IS THEN EITHER SWITCHED OFF MANUALLY OR BY OCCUPANCY SENSOR AFTER 15 MINUTES OF ROOM VACANCY.
2. ONCE LIGHTING IS SWITCHED ON, LIGHTS MAY BE DIMMED THROUGH RAISE/LOWER BUTTONS ON WALL SWITCH.
3. DAYLIGHT SENSOR TO CONTINUOUSLY DIM FIXTURES TO MAINTAIN 40 FC IF APPLICABLE.

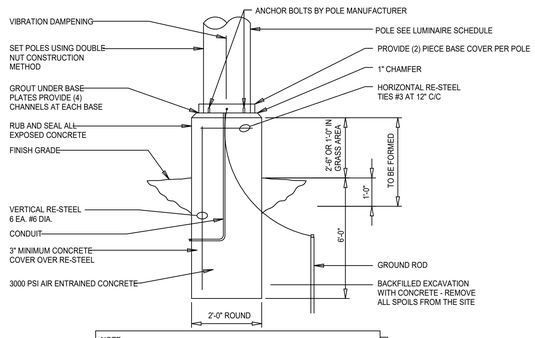
1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING IS SWITCHED ON BY OCCUPANCY SENSOR AND SWITCHED OFF AFTER 15 MINUTES OF VACANCY.
2. HALLWAY LIGHTS SHALL BE CONTROLLED IN ZONES WITH ONE OCCUPANCY SENSOR PER ZONE.
3. SWITCH SHALL OVERRIDE FIXTURES ON/OFF.
4. EMERGENCY FIXTURES SHALL OPERATE AS DESCRIBED ABOVE DURING NORMAL OPERATIONS. IN EMERGENCY SCENARIO, FIXTURES WILL COME ON AT 100% OUTPUT. THIS CAN BE ACHIEVED WITH FULL CIRCUIT GENERATOR TRANSFER DEVICE.



2C LIGHTING CONTROLS - CORRIDOR
NOT TO SCALE



1C LIGHTING CONTROLS - OFFICES
NOT TO SCALE

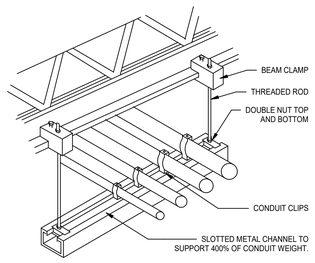


NOTE:

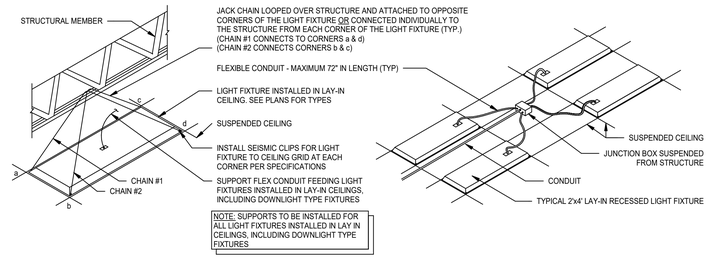
PROVIDE 5/8" x 8'-0" GROUND ROD AT EACH POLE (TOP AT 2'-0" BELOW GRADE) AND CONNECT TO POLE WITH 1#6 AWG SOLID CU CONDUCTOR IN 1/2" PVD CONDUIT.

TACK WELD ALL ANCHOR BOLT NUTS IN PLACE WHEN POLES ARE SET AND PLUMB. REPAIR FINISHED WITH GALCON PAINT.

LIGHTING POLE FOUNDATION DETAIL (15'-6" TO 30'-0" LONG)
SCALE: 1/2" = 1'-0"



3B 2.5" & UP CONDUIT SUPPORT DETAIL
SCALE: 1/2" = 1'-0"



NOTE: SUPPORTS TO BE INSTALLED FOR ALL LIGHT FIXTURES INSTALLED IN LAY IN CEILINGS, INCLUDING DOWNLIGHT TYPE FIXTURES

2B RECESSED LIGHT FIXTURE SUPPORT
SCALE: 1" = 1'-0"

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350 E NEW YORK ST #300, INDIANAPOLIS, IN 46204

ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE10500 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

SEQUENCE OF OPERATIONS/ELECTRICAL DETAILS

E-502

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LUMINAIRE SCHEDULE

PLAN TYPE	MANUFACTURER/CATALOG	MOUNTING	LAMPS NO.	LAMPS WATTS	LAMPS TYPE	LAMPS LUMENS	APPLIED VOLTAGE	DESCRIPTION	VA LOAD
CVL1	SOLID STATE LUMINAIRES CVL SERIES ECOSENSE LIGHTING L30 SERIES LUMENCORE LVC SERIES	SURFACE	1	44 W	LED	4000 lm	277 V	4-FOOT LONG LED COVELIGHT FIXTURE, 0-10V DC DIMMING	44 VA
CVL1X	SOLID STATE LUMINAIRES CVL SERIES ECOSENSE LIGHTING L30 SERIES LUMENCORE LVC SERIES	SURFACE	1	44 W	LED	4000 lm	277 V	4-FOOT LONG LED COVELIGHT FIXTURE, 0-10V DC DIMMING, WITH EMERGENCY TRANSFER DEVICE	44 VA
CVL2	LUMENWERX EVOQ SERIES	SURFACE	1	44 W	LED	4000 lm	277 V	4-FOOT LONG LED FIXTURE DIRECT MOUNTED TO WALL WITH ADJUSTABLE OPTION. 0-10V DC DIMMING	44 VA
CVL2X	LUMENWERX EVOQ SERIES	SURFACE	1	44 W	LED	4000 lm	277 V	4-FOOT LONG LED FIXTURE DIRECT MOUNTED TO WALL WITH ADJUSTABLE OPTION. 0-10V DC DIMMING, WITH EMERGENCY TRANSFER DEVICE	44 VA
LD41	LITHONIA LDN4 SERIES HALO HC4 SERIES PRESCOLITE LF4-4RD LED SERIES	RECESSED	1	14 W	LED	900 lm	277 V	4-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED, 0-10VDC DIMMING, BAR HANGER ACCESSORY.	14 VA
LD41X	LITHONIA LDN4 SERIES HALO HC4 SERIES PRESCOLITE LF4-4RD LED SERIES	RECESSED	1	14 W	LED	900 lm	277 V	4-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED, 0-10VDC DIMMING, BAR HANGER ACCESSORY.	14 VA
LD61	HALO HC6 SERIES LITHONIA LDN6 SERIES PRESCOLITE LF6-6RD SERIES	RECESSED	1	18 W	LED	1500 lm	277 V	6-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED, 0-10VDC DIMMING, BAR HANGER ACCESSORY. ALL OTHER INSTANCES TO BE 4000K	18 VA
LD61X	HALO HC6 SERIES LITHONIA LDN6 SERIES PRESCOLITE LF6-6RD SERIES	RECESSED	1	18 W	LED	1500 lm	277 V	6-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED, 0-10VDC DIMMING, BAR HANGER ACCESSORY, WITH EMERGENCY TRANSFER DEVICE.	18 VA
LD62	HALO HC6 SERIES LITHONIA LDN6 SERIES PRESCOLITE LF6-6RD SERIES	RECESSED	1	18 W	LED	3000 lm	277 V	6-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED, 0-10VDC DIMMING, BAR HANGER ACCESSORY. ALL OTHER INSTANCES TO BE 4000K	18 VA
LD62X	HALO HC6 SERIES LITHONIA LDN6 SERIES PRESCOLITE LF6-6RD SERIES	RECESSED	1	18 W	LED	3000 lm	277 V	6-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED, 0-10VDC DIMMING, BAR HANGER ACCESSORY. ALL OTHER INSTANCES TO BE 4000K, WITH EMERGENCY TRANSFER DEVICE	18 VA
LDS61	RAYON LIGHTING RSL7 SERIES	SURFACE	1	12 W	LED	1245 lm	277 V	7-INCH ROUND CELING SURFACE MOUNTED	18 VA
LDW41	LITHONIA LDN6 SERIES PORTFOLIO LD6B SERIES PRESCOLITE LFR-6RD SERIES	RECESSED	1	18 W	LED	1000 lm	277 V	4-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED.	8 VA
LDW61	LITHONIA LDN6 SERIES PORTFOLIO LD6B SERIES PRESCOLITE LFR-6RD SERIES	RECESSED	1	18 W	LED	1000 lm	277 V	6-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED.	8 VA
LE1	McGRAW-EDISON IMPACT SERIES LITHONIA ARC 2 LED SERIES BEACON RWL1 SERIES	SURFACE WALL	1	24 W	LED	3000 lm	277 V	HALF-CYLINDER LED WALL MOUNTED LUMINAIRE WITH DIE CAST ALUMINUM HOUSING, BOTTOM DIFFUSER FLUSH WITH THE DIE CASTING, TYPE 3 DISTRIBUTION, 70 CRI LEDs. LUMINAIRE COLOR: FROM MANUFACTURER STANDARD COLORS. MOUNT ONTO JUNCTION BOX. FIXTURES ON HIGH SCHOOL TO BE CONTROLLED BY BAS. VANDAL RESISTANT.	38 VA
LE2	MARK ARCHITECTURAL SLOT 1 SERIES LITECONTROL MOD 4L SERIES STARTEK R BEAM SERIES	RECESSED	1	24 W	LED	2400 lm	277 V	4" BY 2-FOOT LINEAR RECESSED FIXTURE, FLUSH LENS, 80 CRI, 4000K, 600 LUMENS PER FOOT	24 VA
LE3	LITHONIA WPX1 SERIES LUMARK AXCENT SERIES GARDCO GEOFORM BLOCK SERIES	SURFACE WALL	1	24 W	LED	2900 lm	277 V	SURFACE WALL PACK LED, NARROW BEAM	24 VA
LE4	NOVUS DECOR ARMOR SERIES SONNEMAN 345897 SERIES	SURFACE WALL	1	18 W	LED	1245 lm	277 V	11'-8" LONG BACK LIT WALL SCONCE	18 VA
LF1	LITHONIA CPX SERIES COLUMBIA CBT SERIES EATON METALUX CGT SERIES	RECESSED	1	29 W	LED	3000 lm	277 V	1 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 1% 0-10V DIMMING.	29 VA
LF1X	LITHONIA CPX SERIES COLUMBIA CBT SERIES EATON METALUX CGT SERIES	RECESSED	1	29 W	LED	3000 lm	277 V	1 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 1% 0-10V DIMMING, EMERGENCY TRANSFER DEVICE.	29 VA
LF2	LITHONIA CPX SERIES COLUMBIA CBT SERIES EATON METALUX CGT SERIES	RECESSED	1	35 W	LED	4000 lm	277 V	2 BY 4-FOO BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 1% 0-10V DIMMING.	35 VA
LF2X	LITHONIA CPX SERIES COLUMBIA CBT SERIES EATON METALUX CGT SERIES	RECESSED	1	35 W	LED	4000 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 1% 0-10V DIMMING,EMERGENCY TRANSFER DEVICE.	35 VA
LF3	LITHONIA CPX SERIES COLUMBIA CBT SERIES EATON METALUX CGT SERIES	RECESSED	1	40 W	LED	4800 lm	277 V	2 BY 4-FOO BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 1% 0-10V DIMMING.	40 VA
LF3X	LITHONIA CPX SERIES COLUMBIA CBT SERIES EATON METALUX CGT SERIES	RECESSED	1	40 W	LED	4800 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 1% 0-10V DIMMING. EMERGENCY TRANSFER DEVICE, SELF-DIAGNOSTIC	40 VA
LF4	LITHONIA CPX SERIES COLUMBIA CBT SERIES EATON METALUX CGT SERIES	RECESSED	1	41 W	LED	6000 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 1% 0-10V DIMMING.	41 VA
LF4X	LITHONIA CPX SERIES COLUMBIA CBT SERIES EATON METALUX CGT SERIES	RECESSED	1	41 W	LED	6000 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 1% 0-10V DIMMING,EMERGENCY TRANSFER DEVICE	41 VA
LF22	LITHONIA CPX SERIES COLUMBIA CBT SERIES EATON METALUX CGT SERIES	RECESSED	1	15 W	LED	2000 lm	277 V	2 BY 2-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 1% 0-10V DIMMING.	15 VA
LF22X	LITHONIA CPX SERIES COLUMBIA CBT SERIES EATON METALUX CGT SERIES	RECESSED	1	15 W	LED	2000 lm	277 V	2 BY 2-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 1% 0-10V DIMMING, EMERGENCY TRANSFER DEVICE.	15 VA
LFW4	LITHONIA CPX SERIES COLUMBIA CBT SERIES EATON METALUX CGT SERIES	RECESSED	1	41 W	LED	6000 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% DIMMING.	41 VA
LFW4X	LITHONIA CPX SERIES COLUMBIA CBT SERIES EATON METALUX CGT SERIES	RECESSED	1	41 W	LED	6000 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% DIMMING,EMERGENCY TRANSFER DEVICE	41 VA
LLW4	MARK ARCHITECTURAL SLOT 4 SERIES LITECONTROL MOD 4L SERIES STARTEK RBEAM SERIES	SURFACE	1	24 W	LED	2400 lm	277 V	Slot 4 LED 4ft Length, SURFACE MOUNTED, FLUSHED LENS POSITION, 80CRI 4000K LED BOARDS 600LMF, DAMP LOCATION LISTED	24 VA
LN4	MARK ARCHITECTURAL SLOT 4 SERIES LITECONTROL MOD 4L SERIES STARTEK RBEAM SERIES	RECESSED	1	24 W	LED	2400 lm	277 V	4" BY 4-FOOT LINEAR RECESSED FIXTURE, FLUSH LENS, 80 CRI, 4000K, 600 LUMENS PER FOOT	24 VA
LN4X	MARK ARCHITECTURAL SLOT 4 SERIES LITECONTROL MOD 4L SERIES STARTEK RBEAM SERIES	RECESSED	1	24 W	LED	2400 lm	277 V	4" BY 4-FOOT LINEAR RECESSED FIXTURE, FLUSH LENS, 80 CRI, 4000K, 600 LUMENS PER FOOT. EMERGENCY TRANSFER DEVICE	24 VA
LN6	MARK ARCHITECTURAL SLOT 4 SERIES LITECONTROL MOD 4L SERIES STARTEK RBEAM SERIES	RECESSED	1	36 W	LED	3600 lm	277 V	4" BY 6-FOOT LINEAR RECESSED FIXTURE, FLUSH LENS, 80 CRI, 4000K, 600 LUMENS PER FOOT	36 VA
LN6X	MARK ARCHITECTURAL SLOT 4 SERIES LITECONTROL MOD 4L SERIES STARTEK RBEAM SERIES	RECESSED	1	36 W	LED	3600 lm	277 V	4" BY 6-FOOT LINEAR RECESSED FIXTURE, FLUSH LENS, 80 CRI, 4000K, 600 LUMENS PER FOOT. EMERGENCY TRANSFER DEVICE	36 VA
LN8	MARK ARCHITECTURAL SLOT 4 SERIES LITECONTROL MOD 4L SERIES STARTEK RBEAM SERIES	RECESSED	1	48 W	LED	4800 lm	277 V	4" BY 8-FOOT LINEAR RECESSED FIXTURE, FLUSH LENS, 80 CRI, 4000K, 600 LUMENS PER FOOT	48 VA
LN8X	MARK ARCHITECTURAL SLOT 4 SERIES LITECONTROL MOD 4L SERIES STARTEK RBEAM SERIES	RECESSED	1	48 W	LED	4800 lm	277 V	4" BY 8-FOOT LINEAR RECESSED FIXTURE, FLUSH LENS, 80 CRI, 4000K, 600 LUMENS PER FOOT. EMERGENCY TRANSFER DEVICE	48 VA
LN12	MARK ARCHITECTURAL SLOT 4 SERIES LITECONTROL MOD 4L SERIES STARTEK RBEAM SERIES	RECESSED	1	72 W	LED	7200 lm	277 V	4" BY 12-FOOT LINEAR RECESSED FIXTURE, FLUSH LENS, 80 CRI, 4000K, 600 LUMENS PER FOOT	72 VA
LN12X	MARK ARCHITECTURAL SLOT 4 SERIES LITECONTROL MOD 4L SERIES STARTEK RBEAM SERIES	RECESSED	1	72 W	LED	7200 lm	277 V	4" BY 12-FOOT LINEAR RECESSED FIXTURE, FLUSH LENS, 80 CRI, 4000K, 600 LUMENS PER FOOT. EMERGENCY TRANSFER DEVICE	72 VA
LNP4	MARK ARCHITECTURAL SLOT 4 SERIES LITECONTROL MOD 4L SERIES STARTEK RBEAM SERIES	PENDANT	1	24 W PER FOOT	LED	1600 lm PER FOOT	277 V	4" BY 4-FOOT LINEAR PENDANT MOUNTED FIXTURE, FLUSH LENS, 80 CRI, 4000K, 400 LUMENS PER FOOT	24 VA PER FOOT
LPD8	PORTFOLIO LSR8A SERIES GOTHAM ICO CYL SERIES PRESCOLITE LTC-6RD SERIES	PENDANT	1	93 W	LED	6000 lm	277 V	8-INCH APERATURE OPEN REFLECTOR LED CYLINDER DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR REFLECTOR, 0-10VDC DIMMING. FIXTURE HOUSING WHITE IN COLOR. PROVIDE WITH SWIVEL HANGER AND FIELD PROVIDED CONDUIT PENDANT, LENGTH AS REQUIRED TO MOUNT SO THAT BOTTOM OF FIXTURE IS AT MOUNTING HEIGHT INDICATED ON PLANS. FIELD PAINT CONDUIT PENDANT SAME COLOR AS FIXTURE.	93 VA
LPD8X	PORTFOLIO LSR8A SERIES GOTHAM ICO CYL SERIES PRESCOLITE LTC-6RD SERIES	PENDANT	1	93 W	LED	6000 lm	277 V	8-INCH APERATURE OPEN REFLECTOR LED CYLINDER DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR REFLECTOR, 0-10VDC DIMMING. FIXTURE HOUSING WHITE IN COLOR. PROVIDE WITH SWIVEL HANGER AND FIELD PROVIDED CONDUIT PENDANT, LENGTH AS REQUIRED TO MOUNT SO THAT BOTTOM OF FIXTURE IS AT MOUNTING HEIGHT INDICATED ON PLANS. FIELD PAINT CONDUIT PENDANT SAME COLOR AS FIXTURE. PROVIDE WITH EMERGENCY TRANSFER DEVICE.	93 VA
LPR1	MARK LIGHTING FCL SERIES	RECESSED	1	24 W	LED	651 lm	277 V	4' DIAMETER FULL CIRCLE RECESSED LED FIXTURE, FLUSH LENS, 0-10VDC DIMMING	24 VA
LPR4	OCL GL1 GLOWRING SERIES CAMMAN LIGHTING P2440 SERIES	SUSPENDED	1	75 W	LED	7875 lm	277 V	4' DIAMETER ROUND SUSPENDED LED FIXTURE, FLAT OPAL LENS, 0-10VDC DIMMING, AIRCRAFT CABLE SUSPENSION IN LENGTH AS REQUIRED TO MOUNT AT HEIGHT(S) INDICATED ON DRAWINGS.	75 VA
LPR5	OCL GL1 GLOWRING SERIES CAMMAN LIGHTING P2440 SERIES	SUSPENDED	1	95 W	LED	9975 lm	277 V	5' DIAMETER ROUND SUSPENDED LED FIXTURE, 0-10VDC DIMMING, AIRCRAFT CABLE SUSPENSION IN LENGTH AS REQUIRED TO MOUNT AT HEIGHT(S) INDICATED ON DRAWINGS.	95 VA
LPR6	OCL GL1 GLOWRING SERIES CAMMAN LIGHTING P2440 SERIES	SUSPENDED	1	115 W	LED	12075 lm	277 V	6' DIAMETER ROUND SUSPENDED LED FIXTURE, 0-10VDC DIMMING, AIRCRAFT CABLE SUSPENSION IN LENGTH AS REQUIRED TO MOUNT AT HEIGHT(S) INDICATED ON DRAWINGS.	115 VA
LR2	METALUX WNLED SERIES LITHONIA SBL SERIES COLUMBIA LAW SERIES	SUSPENDED	1	48 W	LED	4000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING. IF SUSPENDED, INSTALL AT 10-FOOT AFF WITH CONDUIT STEMS (UNO).	27 VA
LR2X	METALUX WNLED SERIES LITHONIA SBL SERIES COLUMBIA LAW SERIES	SUSPENDED	1	48 W	LED	4000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING, WITH EMERGENCY TRANSFER DEVICE. IF SUSPENDED, INSTALL AT 10-FOOT AFF WITH CONDUIT STEMS (UNO).	27 VA
LS1	LITHONIA DSX2 SERIES MCGRAW EDISON GALEON SERIES BEACON VIPER L SERIES HUBBELL AIRO SERIES	20'-0" SQUARE STEEL POLE	1	270 W	LED	27301 lm	277 V	POLE MOUNTED LED FIXTURE ON A 20'-0" TALL POLE. CLEAR LENS, 70+CRI, 4000K, TYPE 2 DISTRIBUTION.	270 VA
LWW1	FOCAL POINT FSM4FL LED SERIES STARTEK R-BEAM SERIES LITECONTROL MOD 4L SERIES	RECESSED	1	24 W PER FOOT	LED	600 lm PER FOOT	277 V	4" LED LINEAR RECESSED FIXTURE, FLUSH LENS, 80 CRI, 4000K, 600 LUMENS PER FOOT, LENGTH PER DRAWINGS	24 VA
LWW2	FOCAL POINT FSM4FL LED SERIES STARTEK RBEAM SERIES LITECONTROL 4L-WSD SERIES	RECESSED	1	24 W PER FOOT	LED	600 lm PER FOOT	277 V	4" LED LINEAR FIXTURE, FLUSH LENS, WALL MOUNTED ABOVE CEILING, 80 CRI, 4000K, 600 LUMENS PER FOOT, LENGTH PER DRAWINGS	24 VA
XC	SURE-LITES CX SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES	SURFACE CEILING	1	3 W	RED LED	0 lm	277 V	CAST ALUMINUM AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA
XW	SURE-LITES CX SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES	SURFACE WALL	1	3 W	RED LED	0 lm	277 V	CAST ALUMINUM AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA

LUMINAIRE SCHEDULE - GENERAL NOTES

1. SEE SPECIFICATIONS FOR DRIVER REQUIREMENTS.
2. FOR ALL DOWNLIGHTING FIXTURES, PROVIDE REQUIRED MOUNTING HARDWARE FOR MOUNTING IN LAY-IN TYPE CEILINGS.
3. CONTRACTOR TO VERIFY TYPES AND QUANTITY OF LIGHT FIXTURES REQUIRING EMERGENCY TRANSFER DEVICES AND PROVIDE REQUIRED QUANTITY OF EMERGENCY TRANSFER DEVICES. LABOR, MATERIAL, ETC. IN THE PROJECT BID FOR FIELD INSTALLATION OF EMERGENCY TRANSFER DEVICES.
4. LIGHT FIXTURE SUBMITTALS TO INCLUDE DATA SHEETS FOR ALL FIXTURE TYPES, INCLUDING ADDITIONAL DATA SHEETS FOR DRIVER COMBINATIONS REQUIRED TO MEET THE INSTALLATION REQUIREMENTS OF THE VARIOUS FIXTURE TYPES INDICATED IN THE REMARKS COLUMN OF THE FIXTURE SCHEDULES OR ON THE DRAWINGS. SUBMITTALS SHALL ALSO INDICATE COLOR FOR ANY CUSTOM COLOR LIGHT FIXTURES.
5. THE COLOR TEMPERATURE OF ALL LIGHT FIXTURES IS TO BE 4,000K UNLESS NOTED OTHERWISE.

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ISSUED FOR BID

PROFESSIONAL ENGINEER BRIAN W. BUTLER REGISTERED No. PE19900008 STATE OF INDIANA

PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

LUMINAIRE SCHEDULES

E-601

Autodesk Docs://Zionsville ELC/2023_ELEC_224033.00.rvt
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Branch Panel: 2BH2

Location: ROOM B201
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 600 A
MCB Rating: .

Notes:
INTEGRAL SURGE PROTECTION

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	HP-B02 RM. B103	20 A	1	3684 VA	3684 VA					1	20 A	HP-B02 RM. B103	2
3	HP-B03 RM. B110	20 A	1			3684 VA	3684 VA			1	20 A	HP-B04 RM. B110	4
5	DWH-1, 32KW, RM. B103	50 A	3					10667 VA	10667 VA	3	50 A	DWH-1, 32KW, RM. B110	6
7	--	--	--	10667 VA	10667 VA					--	--	--	8
9	--	--	--			10667 VA	10667 VA			--	--	--	10
11	DWH-1, 32KW, RM. B201	50 A	3					10667 VA	6667 VA	3	40 A	DWH-2, 20KW, RM. B231	12
13	--	--	--	10667 VA	6667 VA					--	--	--	14
15	--	--	--			10667 VA	6667 VA			--	--	--	16
17	HP-B14, HP-B16, RM. B201	20 A	1					3544 VA	14404 VA	3	80 A	DOAS F01, 63 MCA, RM. B201	18
19	HP-B07, HP-B08, RM. B201	20 A	1	3822 VA	14404 VA					--	--	--	20
21	HP-B10, HP-B15, RM. B201	20 A	1			3156 VA	14404 VA			--	--	--	22
23	HP-B06, RM.B201	20 A	1					3684 VA	3544 VA	1	20 A	HP-B09, HP-B12, RM. B201	24
25	HP-B11, RM.B201	20 A	1	3213 VA	3544 VA					1	20 A	HP-B05, HP-B13, RM. B201	26
27	HP-F01, RM. F201	20 A	1			3684 VA	3684 VA			1	20 A	HP-F02, RM. F201	28
29	HP-F03, RM. F201	20 A	1					3684 VA	3684 VA	1	20 A	HP-F04, RM. F201	30
31	HP-F05, RM. F201	20 A	1	3684 VA	3684 VA					1	20 A	HP-F06, RM. F201	32
33	HP-F07, RM. F201	20 A	1			3684 VA	3684 VA			1	20 A	HP-F08, RM. F201	34
35	HP-F09, RM. F201	20 A	1					4487 VA	4487 VA	1	20 A	HP-F10, RM. F201	36
37	DWH-1, 32KW, RM. F123	50 A	3	10667 VA	10667 VA					3	50 A	DWH-1, 32 KW, RM. B201	38
39	--	--	--			10667 VA	10667 VA			--	--	--	40
41	--	--	--					10667 VA	10667 VA	--	--	--	42
43	DWH-1, 32 KW, RM. F201	50 A	3	10667 VA	10667 VA					3	50 A	DWH-1, 32 KW, RM. F201	44
45	--	--	--			10667 VA	10667 VA			--	--	--	46
47	--	--	--					10667 VA	10667 VA	--	--	--	48
49	DWH-1, 32KW, RM, F201	50 A	3	10667 VA	0 VA					1	20 A	Spare	50
51	--	--	--			10667 VA	0 VA			1	20 A	Spare	52
53	--	--	--					10667 VA	0 VA	1	20 A	Spare	54
55	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	56
57	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	58
59	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	60
61	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	62
63	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	64
65	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	66
		Total Load:		131719 VA		131664 VA		133518 VA					
		Total Amps:		476 A		475 A		482 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	120901 VA	108.94%	131704 VA		
Other	276000 VA	100.00%	276000 VA	**Total Conn. Load:**	396901 VA
				Total Est. Demand:	407704 VA
				Total Conn.:	477 A
				Total Est. Demand:	490 A

Notes:

Branch Panel: 2CH1

Location: ROOM C201
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 400 A
MCB Rating: .

Notes:
INTEGRAL SURGE PROTECTION

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	T-C1 Rm. A201	100 A	3	17330 VA	0 VA					3	45 A	ROOF TOP SOLAR PANEL INVERTER, "C1"	2
3	75 kVA,277 V/480 V,Three Phase,4 Wires,Wye	--	--			17915 VA	0 VA			--	--	--	4
5	--	--	--					14250 VA	0 VA	--	--	--	6
7	RM.C202-C204,C208-C210,C215-C217,C231 LTS	20 A	1	935 VA	0 VA					3	45 A	ROOF TOP SOLAR PANEL INVERTER, "C2"	8
9	RM. C205 - C207, C211-213, C223- C225 LIGHTS	20 A	1			513 VA	0 VA			--	--	--	10
11	RM. C214, C218-C222, C226-233 LIGHTS	20 A	1					666 VA	0 VA	--	--	--	12
13	RM. C201, G201 LIGHTS	20 A	1	432 VA	0 VA					3	45 A	ROOF TOP SOLAR PANEL INVERTER, "C3"	14
15	Spare	20 A	1			0 VA	0 VA			--	--	--	16
17	Spare	20 A	1					0 VA	0 VA	--	--	--	18
19	Spare	20 A	1	0 VA	0 VA					3	45 A	ROOF TOP SOLAR PANEL INVERTER, "G1"	20
21	Spare	20 A	1			0 VA	0 VA			--	--	--	22
23	Spare	20 A	1					0 VA	0 VA	--	--	--	24
25	Spare	20 A	1	0 VA	0 VA					3	45 A	ROOF TOP SOLAR PANEL INVERTER, "G2"	26
27	Spare	20 A	1			0 VA	0 VA			--	--	--	28
29	Spare	20 A	1					0 VA	0 VA	--	--	--	30
31	Spare	20 A	1	0 VA	0 VA					3	45 A	ROOF TOP SOLAR PANEL INVERTER, "G3"	32
33	Spare	20 A	1			0 VA	0 VA			--	--	--	34
35	Spare	20 A	1					0 VA	0 VA	--	--	--	36
37	Spare	20 A	1	0 VA	0 VA					3	45 A	ROOF TOP SOLAR PANEL INVERTER, "G4"	38
39	Spare	20 A	1			0 VA	0 VA			--	--	--	40
41	Spare	20 A	1					0 VA	0 VA	--	--	--	42
		Total Load:		18697 VA		18428 VA		14916 VA					
		Total Amps:		69 A		68 A		54 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	545 VA	115.83%	631 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	52040 VA
Receptacle	24590 VA	70.33%	17295 VA	**Total Est. Demand:**	38288 VA
Lighting	2545 VA	125.00%	3181 VA	**Total Conn.:**	63 A
Receptacle - Convenience	24360 VA	70.53%	17180 VA	**Total Est. Demand:**	46 A

Notes:

Branch Panel: 2CH2

Location: ROOM C201
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 600 A
MCB Rating: .

Notes:
INTEGRAL SURGE PROTECTION

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	HP-CO1, RM. C103	20 A	1	3684 VA	3684 VA					1	20 A	HP-C02 RM. C103	2
3	HP-C03, RM. C110	20 A	1			3684 VA	3684 VA			1	20 A	HP-C04 RM. C110	4
5	DWH-1, 32 KW, RM. C103	50 A	3					10667 VA	10667 VA	3	50 A	DWH-1, 32 KW, RM. C110	6
7	--	--	--	10667 VA	10667 VA					--	--	--	8
9	--	--	--			10667 VA	10667 VA			--	--	--	10
11	DWH-2, 20KW, RM. C221	40 A	3					6667 VA	4100 VA	1	20 A	DWH-3, 4.1 KW RM. C202	12
13	--	--	--	6667 VA	2299 VA					1	20 A	HP-C14 RM. C208	14
15	--	--	--			6667 VA	3213 VA			1	20 A	HP-C13 RM. C208	16
17	HP-C16, HP-C17, RM. C233	20 A	1					4210 VA	3213 VA	1	20 A	HP-C19 RM. C201	18
19	HP-C07, HP-C15, RM. C201	20 A	1	4210 VA	4210 VA					1	20 A	HP-C09, HP-C10, RM. C201	20
21	HP-C08, HP-C12, RM. C201	20 A	1			4210 VA	4210 VA			1	20 A	HP-C05, HP-C11, RM. C201	22
23	HP-C18, RM. C201	20 A	1					2299 VA	3684 VA	1	20 A	HP-C06, RM. C201	24
25	HP-G01, RM. G201	20 A	1	3684 VA	14404 VA					3	80 A	DOAS - G01, 63 MCA, RM. C201	26
27	HP-G02, RM. G201	20 A	1			3684 VA	14404 VA			--	--	--	28
29	HP-G03, RM. G201	20 A	1					3684 VA	14404 VA	--	--	--	30
31	HP-G04, RM. G201	20 A	1	3684 VA	3684 VA					1	20 A	HP-G05, RM. G201	32
33	HP-G06, RM. G201	20 A	1			3684 VA	3684 VA			1	20 A	HP-G07, RM. G201	34
35	HP-G08, RM. G201	20 A	1					3684 VA	4487 VA	1	20 A	HP-G09, RM. G201	36
37	HP-G10, RM. G201	20 A	1	4487 VA	10667 VA					3	50 A	DWH-1, 32 KW, RM. C201	38
39	DWH-1, 32 KW, RM. G123	50 A	3			0 VA	10667 VA			--	--	--	40
41	--	--	--					0 VA	10667 VA	--	--	--	42
43	--	--	--	0 VA	10667 VA					3	50 A	DWH-1, 32 KW, RM. G201	44
45	DWH-1, 32 KW, RM. G201	50 A	3			10667 VA	10667 VA			--	--	--	46
47	--	--	--					10667 VA	10667 VA	--	--	--	48
49	--	--	--	10667 VA	0 VA					1	20 A	Spare	50
51	DWH-1, 32 KW, RM. G201	50 A	3			10667 VA	0 VA			1	20 A	Spare	52
53	--	--	--					10667 VA	0 VA	1	20 A	Spare	54
55	--	--	--	10667 VA	0 VA					1	20 A	Spare	56
57	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	58
59	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	60
61	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	62
63	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	64
65	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	66
		Total Load:		118697 VA		115124 VA		114432 VA					
		Total Amps:		429 A		416 A		413 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	132152 VA	108.17%	142955 VA		
Other	216100 VA	100.00%	216100 VA	**Total Conn. Load:**	348252 VA
				Total Est. Demand:	359055 VA
				Total Conn.:	419 A
				Total Est. Demand:	432 A

Notes:

Branch Panel: 1KH1

Location: ROOM D128
Supply From: MSB
Mounting: Recessed
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:
INTEGRAL SURGE PROTECTION

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	T-K1 Rm. D128	100 A	3	16768 VA	18845 VA					3	100 A	DISHWASHER RM. D128	2
3	75 kVA,277 V/480 V,Three Phase,4 Wires,Wye	--	--			17546 VA	18845 VA			--	--	--	4
5	--	--	--					16634 VA	18845 VA	--	--	--	6
7	DWH-3 RM. D133	20 A	1	4100 VA	830 VA					1	20 A	RM D128, D130-D134 LIGHTS	8
9	SUPPLY FAN RM. D128	20 A	3			942 VA	6089 VA			3	30 A	CONVECTION OVEN RM. D128	10
11	--	--	--					942 VA	6089 VA	--	--	--	12
13	--	--	--	942 VA	6089 VA					--	--	--	14
15	COMBI OVEN RM. D128	60 A	3			12456 VA	942 VA			3	20 A	EXHAUST FAN RM. D128	16
17	--	--	--					12456 VA	942 VA	--	--	2 HP	18
19	--	--	--	12456 VA	942 VA					--	--	--	20
21	COMBI OVEN RM. D128	60 A	3			12456 VA	0 VA			1	20 A	Spare	22
23	--	--	--					12456 VA	0 VA	1	20 A	Spare	24
25	--	--	--	12456 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		73428 VA		69276 VA		68364 VA					
		Total Amps:		266 A		251 A		247 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	6777 VA	110.42%	7483 VA		
Other	171599 VA	100.00%	171599 VA	**Total Conn. Load:**	211067 VA
Receptacle	810 VA	100.00%	810 VA	**Total Est. Demand:**	205055 VA
Lighting	503 VA	125.00%	629 VA	**Total Conn.:**	254 A
Receptacle - Convenience	17762 VA	78.15%	13881 VA	**Total Est. Demand:**	247 A
Receptacle - Special	12416 VA	80.00%	9933 VA		
Receptacle - Washing Machine	1200 VA	60.00%	720 VA		

Notes:

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ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE 10000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

PANELBOARD SCHEDULES

E-604

Autodesk Docs://Zionsville ELC/2023_ELEC_224033.00.rvt
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Branch Panel: 1DL1

Location: ROOM D136
Supply From: T-D1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:
INTEGRAL SURGE PROTECTION

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTS RM. D135 - D137	20 A	1	1260 VA	1260 VA					1	20 A	RECEPTS RM. D126	2
3	GENERATOR - BLOCKHEATER	20 A	1			0 VA	0 VA			1	20 A	GENERATOR-BATTERY CHARGER	4
5	RECEPTS RM D125, D127	20 A	1					1080 VA	345 VA	1	20 A	OVERHEAD DOOR RM D127	6
7	RECEPTS RM D122 - D124	20 A	1	900 VA	1200 VA					1	20 A	WASHER RM D122	8
9	DRYER RM D122	30 A	2			1250 VA	1080 VA			1	20 A	RECEPTS RM D113, D114, D129, D138	10
11	--	--	--					1250 VA	180 VA	1	20 A	W.C. RM D129 (NOTE 1)	12
13	RECEPTS RM D108, D112, D116-D118,D120	20 A	1	1440 VA	1080 VA					1	20 A	RECEPTS RM D11, D115	14
15	RECEPTS RM D115	20 A	1			1080 VA	200 VA			1	20 A	E.F. D02. RM D115	16
17	REFRIG. RM D117	20 A	1					1000 VA	1500 VA	1	20 A	COPIER RM D110	18
19	RECEPTS RM D110	20 A	1	1080 VA	1530 VA					1	20 A	RECEPTS RM D109	20
21	RECEPTS RM D107	20 A	1			1350 VA	1350 VA			1	20 A	RECEPTS RM D106	22
23	RECEPTS RM D105	20 A	1					1350 VA	1350 VA	1	20 A	RECEPTS RM D104	24
25	RECEPTS RM D103	20 A	1	1350 VA	1350 VA					1	20 A	RECEPTS RM D102A	26
27	COPIER RM D119	20 A	1			1500 VA	1500 VA			1	20 A	MICROWAVE RM D119	28
29	MICROWAVE RM D119	20 A	1					1500 VA	1000 VA	1	20 A	REFRIG. RM D119	30
31	RECEPTS RM D119	20 A	1	990 VA	900 VA					1	20 A	RECEPTS RM D119	32
33	AUTOMATIC DOOR RM D102	20 A	1			345 VA	345 VA			1	20 A	AUTOMATIC DOOR D101	34
35	RECEPTS RM D101, D102	20 A	1					1260 VA	1530 VA	1	20 A	RECEPTS RM D102	36
37	EF-D01 RM. D122	20 A	1	200 VA	0 VA					1	20 A	Spare	38
39	DOCK LIFT	30 A	3			2004 VA	0 VA			1	20 A	Spare	40
41	5 HP	--	--					2004 VA	0 VA	1	20 A	Spare	42
43	--	--	--	2004 VA	0 VA					1	20 A	Spare	44
45	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	46
47	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	48
49	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	50
51	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	52
53	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	54
55	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	56
57	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	58
59	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	60
			Total Load:	16544 VA		12004 VA		15349 VA					
			Total Amps:	142 A		100 A		132 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	7447 VA	120.18%	8950 VA		
Other	2500 VA	100.00%	2500 VA	**Total Conn. Load:**	43897 VA
Receptacle	14870 VA	83.62%	12435 VA	**Total Est. Demand:**	38545 VA
Power	0 VA	0.00%	0 VA	**Total Conn.:**	122 A
Receptacle - Convenience	17880 VA	77.96%	13940 VA	**Total Est. Demand:**	107 A
Receptacle - Washing Machine	1200 VA	60.00%	720 VA		

Notes:
1. GFCI CIRCUIT BREAKER 5 mA

Branch Panel: 1DL2

Location: ROOM D136
Supply From: T-D2
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:
INTEGRAL SURGE PROTECTION

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	WATER SOFTENER RM D126	20 A	1	360 VA	250 VA					1	20 A	LTS AND RECEPTS - DOAS-D01 RM. D126	2
3	PIT SUMP PUMP (NOTE 1)	20 A	1			0 VA	0 VA			1	20 A	Spare	4
5	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	8
9	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	610 VA		0 VA		0 VA					
			Total Amps:	5 A		0 A		0 A					

Legend:
1. GFC1 CIRCUIT BREAKER

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	250 VA	100.00%	250 VA		
Receptacle - Convenience	360 VA	100.00%	360 VA	**Total Conn. Load:**	610 VA
				Total Est. Demand:	610 VA
				Total Conn.:	2 A
				Total Est. Demand:	2 A

Notes:

Branch Panel: 1EL1

Location: ROOM E102
Supply From: T-E1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:
INTEGRAL SURGE PROTECTION

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTS RM A101-A102, A113, S-1	20 A	1	900 VA	1260 VA					1	20 A	RECEPTS RM A108, A109, E-1, S-1	2
3	SUMP PUMP RM E-1	20 A	1			1307 VA	0 VA			1	20 A	ELEVATOR CAB. LIGHTS RM A109	4
5	AUTOMATIC DOOR OPERATOR RM A103	20 A	1					345 VA	345 VA	1	20 A	AUTOMATIC DOOR OPERATOR RM A103	6
7	COILING GRILLE RM A105	20 A	1	345 VA	810 VA					1	20 A	RECEPTS RM A108	8
9	RECEPTS RM A110	20 A	1			1530 VA	900 VA			1	20 A	RECEPTS RM A114	10
11	RECEPTS RM A114	20 A	1					1170 VA	720 VA	1	20 A	RECEPTS RM A115	12
13	RECEPTS RM A112, A131	20 A	1	1530 VA	1000 VA					1	20 A	REFRIG. RM A112	14
15	RECEPTS RM A116, A117, A120-123, A130	20 A	1			1260 VA	180 VA			1	20 A	W.C. RM A130 (NOTE 1)	16
17	EF-A01 RM A123	20 A	1					200 VA	1080 VA	1	20 A	RECEPTS RM A118, A119	18
19	REFRIG. RM A119	20 A	1	1000 VA	500 VA					1	20 A	RANGE HOOD RM A119	20
21	RANGE RM A119	50 A	2			4000 VA	1000 VA			1	20 A	REFRIG. RM A111	22
23	--	--	--					4000 VA	1500 VA	1	20 A	COPIER RM A111	24
25	RECEPTS RM A111	20 A	1	1350 VA	720 VA					1	20 A	RECEPTS RM A107	26
27	RECEPTS RM A107	20 A	1			1530 VA	990 VA			1	20 A	RECEPTS RM A105, A106	28
29	RECEPTS RM A104	20 A	1					1350 VA	1170 VA	1	20 A	RECEPTS RM A129	30
31	RECEPTS RM A126-A129	20 A	1	1260 VA	1000 VA					1	20 A	REFRIG. RM A125	32
33	AV CABINET RM A125	20 A	1			180 VA	1260 VA			1	20 A	RECEPTS RM A125	34
35	RECEPTS RM A125	20 A	1					1710 VA	720 VA	1	20 A	RECEPTS RM A124	36
37	RECEPTS RM A124	20 A	1	720 VA	720 VA					1	20 A	RECEPTS RM A124	38
39	RECEPTS RM A124	20 A	1			900 VA	1350 VA			1	20 A	RECEPTS RM A124	40
41	RECEPTS RM A124	20 A	1					1440 VA	990 VA	1	20 A	RECEPTS RM A124	42
43	RECEPTS RM A124	20 A	1	990 VA	990 VA					1	20 A	RECEPTS RM A124	44
45	PARTITION MOTOR RM A124	20 A	1			1127 VA	1127 VA			1	20 A	PARTITION MOTOR RM A124	46
47	MICROWAVE RM. A119	20 A	1					1500 VA	1500 VA	1	20 A	MICROWAVE RM. A119	48
49	WINDOW SHADES RM. A124	20 A	1	345 VA	0 VA					1	20 A	Spare	50
51	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	52
53	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	54
55	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	56
57	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	58
59	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	60
			Total Load:	15440 VA		18641 VA		19740 VA					
			Total Amps:	129 A		159 A		169 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	4961 VA	105.68%	5243 VA		
Other	500 VA	100.00%	500 VA	**Total Conn. Load:**	53821 VA
Receptacle	18880 VA	76.48%	14440 VA	**Total Est. Demand:**	42323 VA
Power	0 VA	0.00%	0 VA	**Total Conn.:**	149 A
Receptacle - Convenience	21480 VA	73.28%	15740 VA	**Total Est. Demand:**	117 A
Receptacle - Special	8000 VA	80.00%	6400 VA		

Notes: 1. GFCI Circuit breaks 5 mA

Branch Panel: 1EL2

Location: ROOM E102
Supply From: T-E1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:
INTEGRAL SURGE PROTECTION

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EF-E03 RM A101	20 A	1	345 VA	1440 VA					1	20 A	RECEPTS RM E102-E104, E137	2
3	EF-E04 RME120,EF-E01 RM E123, EF-E02RM E125	20 A	1			600 VA	1080 VA			1	20 A	RECEPTS RM E105	4
5	RECEPTS RM E105	20 A	1					1080 VA	1260 VA	1	20 A	RECEPTS E106	6
7	RECEPTS RM E106	20 A	1	1080 VA	1080 VA					1	20 A	RECEPTS RM E107-E109, E112, E113	8
9	RECEPTS RM E110	20 A	1			1080 VA	1080 VA			1	20 A	RECEPTS RM E110	10
11	RECEPTS RM E111	20 A	1					1260 VA	1080 VA	1	20 A	RECEPTS RM E111	12
13	RECEPTS RM E115	20 A	1	1080 VA	1080 VA					1	20 A	RECEPTS RM E115	14
15	RECEPTS RM E116, E117, E138	20 A	1			720 VA	180 VA			1	20 A	W.C. RM E118 (NOTE 1)	16
17	RECEPTS RM E118	20 A	1					1080 VA	1127 VA	1	20 A	PROJECTION SCREEN RM E118	18
19	RECEPTS RM E118	20 A	1	1080 VA	2850 VA					2	40 A	CUH-E01,5.7KW RM E119	20
21	AV CABINET RM E120	20 A	1			180 VA	2850 VA			--	--	--	22
23	RECEPTS RM. E120, E121	20 A	1					900 VA	1000 VA	1	20 A	REACH-IN FRIG. RM E121	24
25	Spare	20 A	1	0 VA	720 VA					1	20 A	RECEPTS RM E122, E123, E125, E127	26
27	RECEPTS RM E128	20 A	1			900 VA	1350 VA			1	20 A	RECEPTS E124	28
29	COPIER RM E124	20 A	1					1500 VA	1500 VA	1	20 A	MICROWAVE RM E124	30
31	MICROWAVE RM E124	20 A	1	1500 VA	1000 VA					1	20 A	REFRIG. RM E124	32
33	RECEPTS RM E128	20 A	1			1260 VA	1080 VA			1	20 A	RECEPTS RM E128	34
35	RECEPTS RM E129-E131, E135, E136, E139	20 A	1					1260 VA	1080 VA	1	20 A	RECEPTS RM E132	36
37	RECEPTS RM E132	20 A	1	1080 VA	1530 VA					1	20 A	RECEPTS RM E133	38
39	RECEPTS RM E134	20 A	1			1530 VA	345 VA			1	20 A	WINDOW SHADES RM. E118	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
43	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	44
45	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	46
47	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	48
49	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	50
51	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	52
53	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	54
55	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	56
57	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	58
59	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	60
			Total Load:	15865 VA		14235 VA		14127 VA					
			Total Amps:	132 A		119 A		118 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	8117 VA	117.56%	9542 VA		
Receptacle	13190 VA	87.91%	11595 VA	**Total Conn. Load:**	44227 VA
Receptacle - Convenience	22920 VA	71.82%	16460 VA	**Total Est. Demand:**	37597 VA
				Total Conn.:	123 A
				Total Est. Demand:	104 A

Notes:
1. GFCI CIRCUIT BREAKER 5mA

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BRIAN W. BUTLER REGISTERED No. PE10800 STATE OF INDIANA PROFESSIONAL ENGINEER

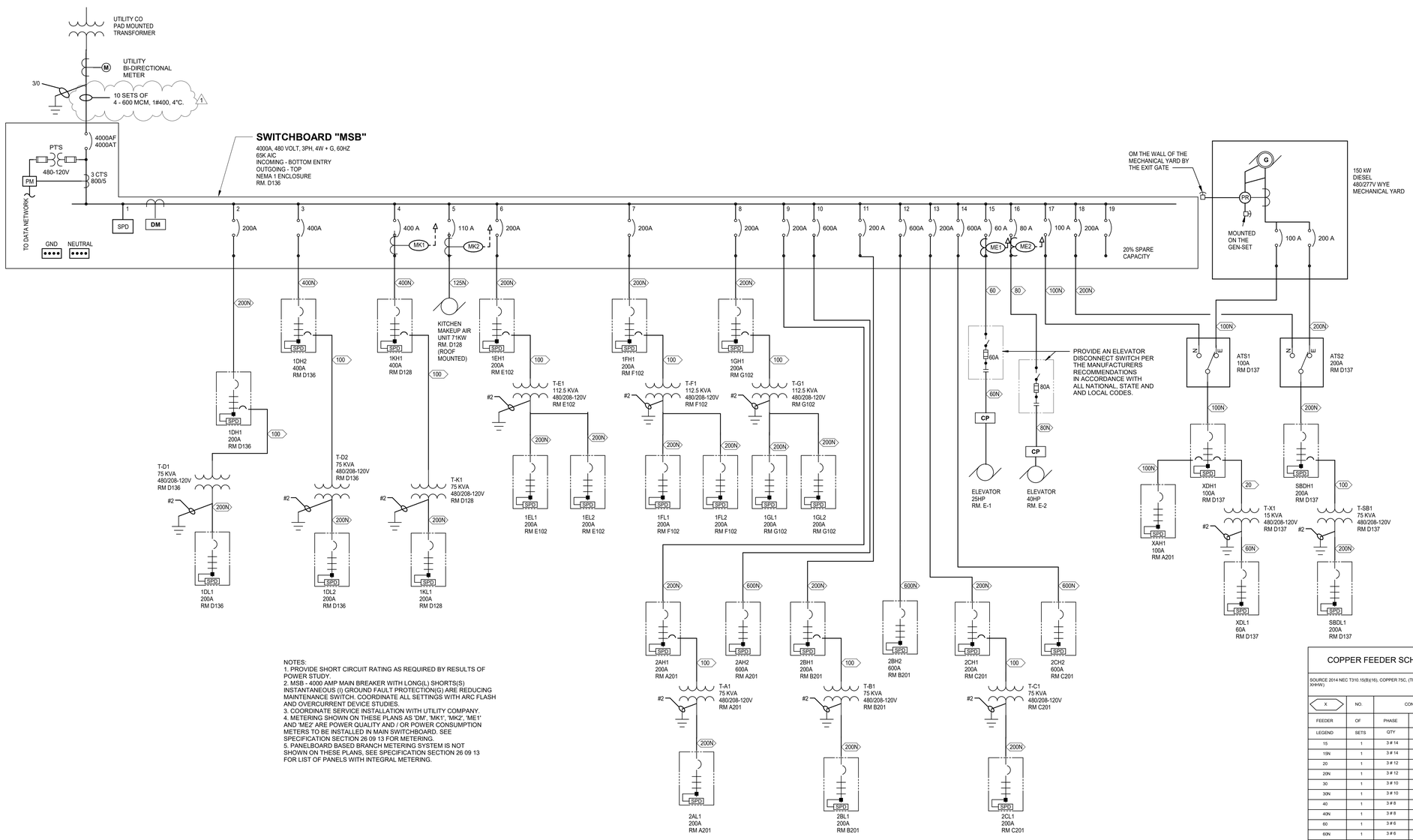
PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	07.09.2025

PANELBOARD SCHEDULES

E-605

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NOTES:
1. PROVIDE SHORT CIRCUIT RATING AS REQUIRED BY RESULTS OF POWER STUDY.
2. MSB - 4000 AMP MAIN BREAKER WITH LONG(L) SHORTS(S) INSTANTANEOUS (I) GROUND FAULT PROTECTION(G) ARE REDUCING MAINTENANCE SWITCH. COORDINATE ALL SETTINGS WITH ARC FLASH AND OVERCURRENT DEVICE STUDIES.
3. COORDINATE SERVICE INSTALLATION WITH UTILITY COMPANY.
4. METERING SHOWN ON THESE PLANS AS 'DM', 'MK1', 'MK2', 'ME1' AND 'ME2' ARE POWER QUALITY AND / OR POWER CONSUMPTION METERS TO BE INSTALLED IN MAIN SWITCHBOARD. SEE SPECIFICATION SECTION 26 09 13 FOR METERING.
5. PANELBOARD BASED BRANCH METERING SYSTEM IS NOT SHOWN ON THESE PLANS, SEE SPECIFICATION SECTION 26 09 13 FOR LIST OF PANELS WITH INTEGRAL METERING.

ONE LINE DIAGRAM SYMBOLS

1AL1	MAIN LUG ONLY CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	DM	DIGITAL ELECTRONIC POWER METER		COMBINATION MAGNETIC MOTOR STARTER WITH FUSED SWITCH		FUSED SWITCH IN SWITCHBOARD, 3P UNO
		K	KIRK KEY INTERLOCK				DISCONNECT SWITCH IN SWITCHBOARD, 3P UNO
		M	UTILITY METER			S/E G	FUSED BOLTED PRESSURE SWITCH WITH GROUND FAULT AND SINGLE PHASE PROTECTION, 3P UNO
2AL1	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	XXXA 5AL1	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD WITH SUB-FEED BREAKER, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES		COMBINATION MAGNETIC MOTOR STARTER WITH CIRCUIT BREAKER	N E	TRANSFER SWITCH
3AL1	THROUGH FEED LUGS CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	SPD 6AL1	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD WITH INTEGRAL BUS CONNECTED SPD, REFER TO E8 SERIES DRAWINGSFOR PANELBOARD SCHEDULES		COMBINATION MAGNETIC MOTOR STARTER WITH MOTOR CIRCUIT PROTECTOR		DISCONNECT, 3P UNO
				VSC	COMBINATION MAGNETIC MOTOR STARTER WITH VARIABLE SPEED CONTROLLER		MOLDED CASE CIRCUIT BREAKER, 3P UNO
4AL1	MAIN DOUBLE LUG CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	SPD 7AL1	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD WITH SPD MOUNTED ADJACENT WITH CLOSED NIPPLE, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	EO	COMBINATION MAGNETIC MOTOR STARTER WITH ELECTRONIC OVERLOADS		CIRCUIT BREAKER IN SWITCHBOARD, 3P UNO
							INSULATED CASED POWER CIRCUIT BREAKER WITH L.I.S.G. PROTECTION FEATURES, 3P UNO
							DRAWOUT CIRCUIT BREAKER, 3P UNO
						S	SHUNT TRIP OPERATED CIRCUIT BREAKER

	FUSED POTENTIAL TRANSFORMER
	CURRENT TRANSFORMERS, 3 UNO
	CAPACITOR
	EARTH GROUND
LA	LIGHTNING ARRESTER
	PLUG AND RECEPTACLE OR DRAWOUT DEVICE
	POWER TRANSFORMER
X	3 PHASE MOTOR, X INDICATES HORSEPOWER OR KILOWATTS
CP	CONTROL PANEL FURNISHED UNDER DIVISION 25
G	GENERATOR

COPPER FEEDER SCHEDULE

SOURCE 2014 NEC T310.15(B)(16), COPPER 75C, (THHW, THW, THWN, XHHW)

X	NO.	CONDUCTOR SIZE			CONDUIT
FEEDER	OF	PHASE	NEUTRAL	GROUND	SIZE
LEGEND	SETS	QTY	(1)	(1)	Inches
15	1	3 # 14		#14	3/4
15N	1	3 # 14	#14	#14	3/4
20	1	3 # 12		#12	3/4
20N	1	3 # 12	#12	#12	3/4
30	1	3 # 10		#10	3/4
30N	1	3 # 10	#10	#10	3/4
40	1	3 # 8		#10	3/4
40N	1	3 # 8	#8	#10	3/4
60	1	3 # 6		#10	1
60N	1	3 # 6	#6	#10	1
80	1	3 # 4		#8	1 1/4
80N	1	3 # 4	#4	#8	1 1/4
100	1	3 # 3		#8	1 1/2
100N	1	3 # 3	#3	#8	1 1/2
125	1	3 # 1		#6	2
125N	1	3 # 1	#1	#6	2
150	1	3 # 1/0		#6	2
150N	1	3 # 1/0	#1/0	#6	2
175	1	3 # 2/0		#6	2
175N	1	3 # 2/0	#2/0	#6	2
200	1	3 # 3/0		#6	2
200N	1	3 # 3/0	#3/0	#6	2
225	1	3 # 4/0		#4	2 1/2
225N	1	3 # 4/0	#4/0	#4	2 1/2
250	1	3 # 250		#4	2 1/2
250N	1	3 # 250	#250	#4	2 1/2
300	1	3 # 350		#3	3
300N	1	3 # 350	#350	#3	3
350	1	3 # 500		#3	4
350N	1	3 # 500	#500	#3	4
400	1	3 # 600		#3	4
400N	1	3 # 600	#600	#3	4
500	2	3 # 250		#2	2 1/2
500N	2	3 # 250	#250	#2	2 1/2
600	2	3 # 350		#1	3
600N	2	3 # 350	#350	#1	3
800	2	3 # 600		#1/0	4
800N	2	3 # 600	#600	#1/0	4
1000	3	3 # 400		#2/0	3
1000N	3	3 # 400	#400	#2/0	3
1200	3	3 # 600		#3/0	4
1200N	3	3 # 600	#600	#3/0	4
1600	4	3 # 600		#4/0	4
1600N	4	3 # 600	#600	#4/0	4
2000	5	3 # 600		#250	4
2000N	5	3 # 600	#600	#250	4
2500	6	3 # 600		#350	4
2500N	6	3 # 600	#600	#350	4

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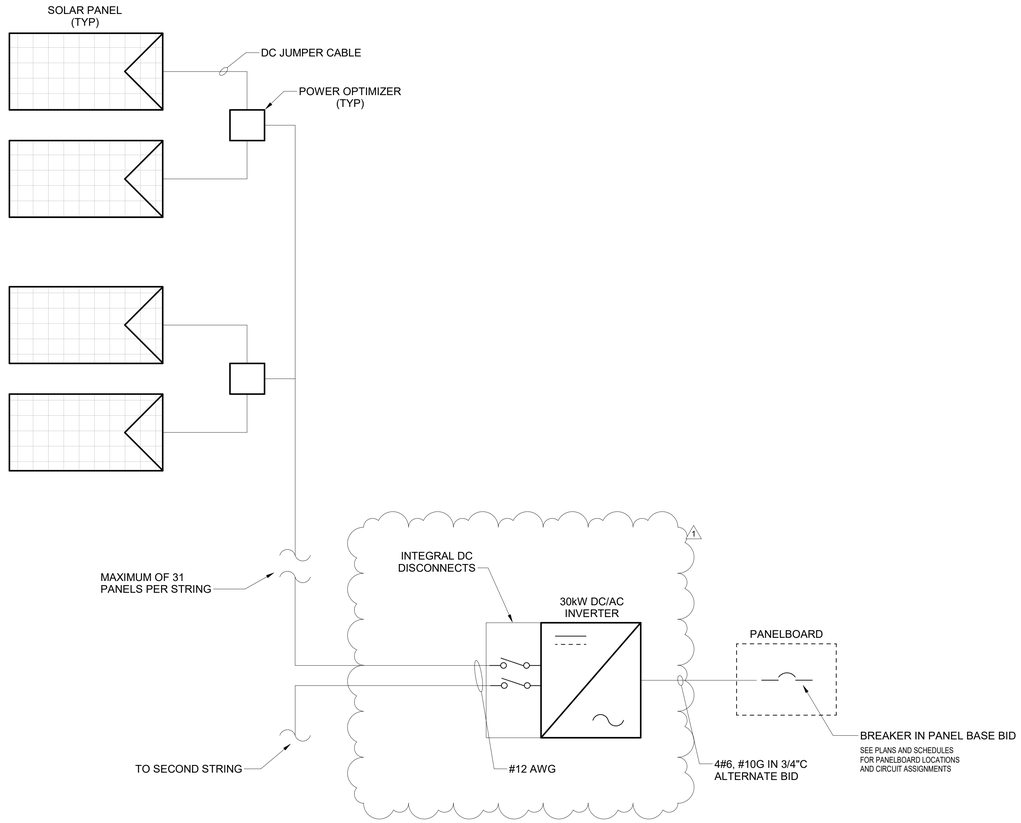
PROJECT MANAGER: JM
DRAWN BY: RDR
PROJECT NUMBER: 224033.00
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ELECTRICAL SCHEMATICS

E-701

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PHOTOVOLTAIC ONE LINE - ALTERNATE EXCEPT AS NOTED

INVERTER SCHEDULE

INVERTER	STRING	MODULES	OPTIMIZERS
A1	1 2	24 24	12 12
A2	1 2	25 25	12 12
A3	1 2	30 30	15 15
A4	1 2	27 27	13 13
A5	1 2	30 30	15 15
E1	1 2	28 28	14 14
E2	1 2	26 26	13 13
E3	1 2	28 28	14 14
B1	1 2	28 28	14 14
B2	1 2	28 28	14 14
B3	1 2	26 26	13 13
B4	1	30	15
F1	1 2	29 29	14 14
F2	1 2	29 29	14 14
F3	1 2	29 29	14 14
C1	1 2	30 30	15 15
C2	1 2	31 31	15 15
C3	1 2	31 31	15 15
G1	1 2	29 29	14 14
G2	1 2	29 29	14 14
G3	1 2	29 29	14 14
TOTALS	21	41	1162	571

SEE ER ROOF PLAN FOR PV MODULE, STRINGS, AND INVERTER ASSIGNMENTS. SEE SECOND FLOOR POWER PLANS FOR INVERTER AND PANEL LOCATIONS.

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PROJECT MANAGER: JM
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PHOTOVOLTAIC ONE LINE DIAGRAM

E-702

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DEFINITIONS

ACCEPTANCE TEST	A TEST OR SET OF TESTS PERFORMED TO DEMONSTRATE SATISFACTORY COMPLETION OF A PREDETERMINED TASK OR GROUP OF TASKS ON WHICH ACCEPTANCE IS DEPENDANT.
ACCESS POINT (AP)	ACCESS POINT (AP) - THE CENTRAL OR CONTROL POINT IN A WIRELESS CELL THAT ACTS AS A LINK FOR TRAFFIC TO AND FROM WIRELESS DEVICES IN THE CELL. THE AP ALSO CONNECTS WIRELESS DEVICES TO THE WIRED PORTION OF THE NETWORK.
ACTIVE CIRCUIT	ACTIVE CIRCUIT - A VOICE/DATA/VIDEO CHANNEL CONNECTED TO A CIRCUIT.
ACTIVE EQUIPMENT	ENERGIZED EQUIPMENT USED FOR RECEIVING OR TRANSMITTING ANALOG OR DIGITAL SIGNALS.
ADMINISTRATION	ADMINISTRATION - THE METHODOLOGY DEFINING THE DOCUMENTATION REQUIREMENTS OF A CABLING SYSTEM AND ITS CONTAINMENT, THE LABELING OF FUNCTIONAL ELEMENTS AND THE PROCESS BY WHICH MOVES, ADDS, AND CHANGES ARE RECORDED. (ISO)
ALIEN CROSSTALK	UNWANTED TRANSFER OF SIGNAL FROM ONE OR MORE CIRCUITS IN A GIVEN CABLE TO OTHER CIRCUITS IN ANOTHER CABLE.
ATTENUATION	THE DECREASE IN MAGNITUDE OF TRANSMISSION SIGNAL STRENGTH BETWEEN POINTS, EXPRESSED IN DB AS THE RATIO OF OUTPUT TO INPUT SIGNAL LEVEL.
ATTENUATION-TO-CROSSTALK RATION (ACR)	THE RATIO OBTAINED BY SUBTRACTING INSERTION LOSS (ATTENUATION [DB]) FROM NEAR-END CROSSTALK (DB). ACR IS NORMALLY STATED AT A GIVEN FREQUENCY. SEE SIGNAL-TO-NOISE RATIO.
BACKBONE	A FACILITY (E.G., PATHWAY, CABLE, OR CONDUCTORS) BETWEEN ANY OF THE FOLLOWING SPACES: TELECOMMUNICATIONS ENCLOSURES, TELECOMMUNICATIONS ROOMS, EQUIPMENT ROOMS, AND ENTRANCE FACILITIES.
BACKBONE BONDING CONDUCTOR	BACKBONE BONDING CONDUCTOR - A COPPER CONDUCTOR EXTENDING FROM THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR TO THE FARTHEST FLOOR TELECOMMUNICATIONS GROUNDING BUSBAR. (TIA)
BALANCED TWISTED-PAIR CABLE	A MULTI-CONDUCTOR CABLE COMPRISING TWO OR MORE COPPER CONDUCTORS TWISTED IN A MANNER DESIGNED TO CANCEL ELECTRICAL INTERFERENCE.
BANDWIDTH	A MEASURE OF THE RANGE OF FREQUENCIES ASSOCIATED WITH A GIVEN SIGNAL OR COMMUNICATIONS CHANNEL, TYPICALLY EXPRESSED IN HERTZ. IT IS USED TO DENOTE THE POTENTIAL TRANSMISSION CAPACITY OF THE MEDIUM, DEVICE, OR SYSTEM.
BEND RADIUS	1. MAXIMUM RADIUS THAT A CABLE CAN BE BENT TO AVOID PHYSICAL OR ELECTRICAL DAMAGE OR CAUSE ADVERSE TRANSMISSION PERFORMANCE. 2. RADIUS OF CURVATURE THAT A MEDIA CAN BEND WITHOUT SIGNAL DEGRADATION.
BICSI	AN INTERNATIONAL TELECOMMUNICATIONS ASSOCIATION.
BONDING	THE PERMANENT JOINING OF METALLIC PARTS TO FORM AN ELECTRICALLY CONDUCTIVE PATH THAT WILL ENSURE ELECTRICAL CONTINUITY AND THE CAPACITY TO CONDUCT SAFELY ANY CURRENT LIKELY TO BE IMPOSED. (TIA)
BONDING CONDUCTOR	A CONDUCTOR USED SPECIFICALLY FOR THE PURPOSE OF BONDING.
BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT)	A CONDUCTOR THAT INTERCONNECTS THE BUILDINGS SERVICE EQUIPMENT (POWER) GROUND TO THE TELECOMMUNICATIONS GROUNDING SYSTEM.
BORING	A METHOD TO DISPLACE EARTH UNDER THE GROUND WITHOUT BREAKING THE GROUND SURFACE (TRENCHING) OR CUTTING GROUND SURFACES (E.G., SIDEWALKS, DRIVEWAYS, PARKING LOTS, AND ROAD SURFACES). NORMALLY, AS DIRT IS DISPLACED OR REMOVED, CONDUIT IS INSERTED.
CABLING SYSTEM	A SPECIFIC SYSTEM OF TELECOMMUNICATIONS CABLES, EQUIPMENT/PATCH CORDS, CONNECTING HARDWARE, AND OTHER COMPONENTS THAT IS SUPPLIED AS A SINGLE ENTITY.
CARD READER	A SECURITY SYSTEM DEVICE THAT READS CODED CARDS.
CATEGORY	A RATING THAT DEFINES THE PERFORMANCE OF CABLING COMPONENTS AND SYSTEMS.
CELL	THE FIXED AREA IN WHICH A WIRELESS DEVICES OPERATES.
COMMUNICATIONS	SEE TELECOMMUNICATIONS.
CROSS-CONNECT	A FACILITY ENABLING THE TERMINATION OF CABLE ELEMENTS AND THEIR INTERCONNECTION OR CROSS-CONNECTION. (TIA)
CROSSTALK	UNWANTED TRANSFER OF SIGNAL FROM ONE OR MORE CIRCUITS TO OTHER CIRCUITS.
CUTOVER	THE PROCESS OF SWITCHING FROM OLD NETWORK COMPONENTS TO NEW NETWORK COMPONENTS.
DAISY-CHAIN TOPOLOGY	DEVICES ARE CONNECTED IN SERIES, ONE AFTER THE OTHER, AND THE TRANSMITTED SIGNALS GO TO THE FIRST DEVICES, THEN THE SECOND, ETC.
DATA	ELECTRONICALLY ENCODED INFORMATION. (TIA)
DATA COMMUNICATION	THE TRANSMISSION AND RECEPTION OF ELECTRONICALLY CODED INFORMATION.
DATA NETWORK	AN INTERCONNECTED SYSTEM OF COMPUTERS, PERIPHERALS, AND SOFTWARE OVER WHICH COMMANDS, FILES, AND MESSAGES ARE SENT AND RECEIVED.
DECIBEL (DB)	A LOGARITHMIC UNIT FOR MEASURING THE RELATIVE POWER OR STRENGTH OF A SIGNAL.
DELAY SKEW	THE DIFFERENCE IN PROPAGATION DELAY BETWEEN ANY TWO PAIRS WITHIN THE SAME CABLE SHEATH. (TIA)
DEMARCATION POINT (DP)	1. A POINT WHERE THE OPERATIONAL CONTROL OR OWNERSHIP CHANGES. (TIA) 2. THE POINT OF INTERFACE BETWEEN SERVICE PROVIDERS AND CUSTOMER FACILITIES.
DIELECTRIC	1. THE NONCONDUCTIVE PROPERTIES OF AN INSULATING MATERIAL THAT RESISTS THE PASSAGE OF ELECTRIC CURRENT. THE INSULATION SURROUNDING A COPPER CONDUCTOR IS KNOWN AS A DIELECTRIC. 2. A MATERIAL THAT IS NONMETALLIC AND NONCONDUCTIVE. 3. A NONCONDUCTOR OF DIRECT ELECTRIC CURRENT.
DIRECT-BURIED CABLE	A TELECOMMUNICATIONS CABLE DESIGNED TO BE INSTALLED UNDER THE SURFACE OF THE EARTH, IN DIRECT CONTACT WITH THE SOIL. (TIA)
ELECTROMAGNETIC INTERFERENCE (EMI)	RADIATED OR CONDUCTED ELECTROMAGNETIC ENERGY THAT HAS AN UNDESIRABLE EFFECT ON ELECTRONIC EQUIPMENT OR SIGNAL TRANSMISSIONS. (TIA)
EQUAL LEVEL FAR-END CROSSTALK (ELFEXT)	CROSSTALK MEASURED AT THE OPPOSITE END FROM WHICH THE DISTURBING SIGNAL IS TRANSMITTED, NORMALIZED BY THE ATTENUATION CONTRIBUTION OF THE CABLE OR CABLING.
FAR-END CROSSTALK (FEXT) LOSS	A MEASURE OF THE UNWANTED SIGNAL COUPLING FROM A TRANSMITTER AT THE NEAR END INTO ANOTHER PAIR MEASURED AT THE FAR END, AND RELATIVE TO THE TRANSMITTED SIGNAL LEVEL. ALSO CALLED INPUT/OUTPUT FAR END CROSSTALK LOSS. (TIA)
FAULT TOLERANCE	THE ABILITY OF A SYSTEM TO CONTINUE OPERATIONS AFTER THE FAILURE OF ONE OR MORE COMPONENTS.
FIBER OPTICS	A COMMUNICATION SYSTEM THAT USES OPTICAL FIBER AS ITS MEDIUM.
GIGABIT PER SECOND (GB/S)	A TRANSMISSION RATE DENOTING ONE BILLION BITS PER SECOND.
GIGAHERTZ (GHZ)	A UNIT OF FREQUENCY DENOTING ONE BILLION CYCLES PER SECOND (HERTZ).
HERTZ (HZ)	1. A UNIT OF MEASURE USED TO EXPRESS THE RANGE OF FREQUENCIES ASSOCIATED WITH A GIVEN SIGNAL OR COMMUNICATIONS CHANNEL. THIS RANGE IS ALSO CALLED BANDWIDTH. 2. A UNIT OF FREQUENCY EQUAL TO ONE CYCLE PER SECOND.
HOME RUN	A PATHWAY OR CABLE BETWEEN TWO LOCATIONS WITHOUT A SPLICE OR INTERMEDIATE TERMINATIONS POINTS IN BETWEEN.
HORIZONTAL CABLE	1. A PERMANENT ELEMENT OF THE HORIZONTAL CABLING THAT CONNECTS THE TELECOMMUNICATIONS OUTLET/CONNECTOR AT THE WORK AREA AND THE FIRST PIECE OF CONNECTING HARDWARE IN THE HORIZONTAL OR MAIN CROSS-CONNECT. 2. FOUR PAIR 24 AWG UNSHIELDED TWISTED PAIR (UTP).
HORIZONTAL CROSS-CONNECT	A GROUP OF CONNECTORS THAT ALLOWS EQUIPMENT AND BACKBONE CABLING TO BE CROSS-CONNECTED.
INNERDUCT	A NONMETALLIC RACEWAY, USUALLY CIRCULAR, PLACED WITHIN A LARGER PATHWAY. (TIA)
INTERMEDIATE CROSS-CONNECT	THE CONNECTION POINT BETWEEN A BACKBONE CABLE THAT EXTENDS FROM THE MAIN CROSS-CONNECT AND THE BACKBONE CABLE FROM THE HORIZONTAL CROSS-CONNECT.
LATENCY	THE TIME IT TAKES FOR A SIGNAL TO PASS THROUGH A DEVICE OR NETWORK.
LOW-VOLTAGE CABLING/CABLING SYSTEM	TELECOMMUNICATIONS SIGNALING (INCLUDES BUILDING AUTOMATION SIGNALING) VOLTAGE LEVELS ARE TYPICALLY POWER-LIMITED WHEN COMPARED TO ELECTRICAL POWER CIRCUITS THAT CAN VARY FROM 100 VOLTS ALTERNATING CURRENT (AC) TO 240 VOLTS AC IN COMMERCIAL BUILDINGS. CIRCUITS TYPICALLY USE AN INHERENTLY LIMITED POWER SOURCE WITHOUT OVER-CURRENT PROTECTION OR A NONINHERENTLY LIMITED POWER SOURCE WHERE OVERCURRENT PROTECTION IS REQUIRED. SINCE TELECOMMUNICATIONS CABLING SYSTEMS ARE NOT USED TO DISTRIBUTE ELECTRICAL POWER, THE SIGNALING THAT OCCURS ON THESE COPPER-BASED SYSTEMS IS GENERALLY DESCRIBED AS LOW VOLTAGE.
MAIN CROSS-CONNECT (MC)	THE CROSS-CONNECT NORMALLY LOCATED IN THE (MAIN) TELECOMMUNICATIONS EQUIPMENT ROOM (ER) FOR CROSS-CONNECTION AND INTERCONNECTION OF ENTRANCE CABLES, FIRST-LEVEL BACKBONE CABLES, AND EQUIPMENT CABLES.
NEAR-END CROSSTALK (NEXT) LOSS	1. THE UNWANTED SIGNAL COUPLING BETWEEN PAIRS. IT IS MEASURED AT THE END OF A CABLE NEAREST THE POINT OF TRANSMISSION. CONTRAST WITH FAR-END CROSSTALK. 2. THE SIGNAL TRANSFER BETWEEN CIRCUITS AT THE SAME (NEAR) END OF THE CABLE.
NETWORK	A GROUP OF THREE OR MORE NODES THAT CAN COMMUNICATE WITH EACH OTHER, EITHER DIRECTLY THROUGH CABLING OR INDIRECTLY THROUGH REPEATERS TO SEPARATE CABLING.
OUTSIDE PLANT (OSP)	TELECOMMUNICATIONS INFRASTRUCTURE DESIGNED FOR INSTALLATION EXTERIOR TO BUILDINGS.
PAIR	TWO INSULATED WIRES TWISTED AROUND EACH OTHER.
PAIR TWIST	THE UNIFORM TWIST OF AN INSULATED COPPER PAIR THAT HELPS TO REDUCE THE NEGATIVE EFFECTS OF CAPACITANCE IMBALANCE AND ELECTROMAGNETIC INDUCTION.
PATCH CORD	A LENGTH OF CABLE WITH A PLUG ON ONE OR BOTH ENDS.
PATCH PANEL	A CONNECTING HARDWARE SYSTEM THAT FACILITATES CABLE TERMINATION AND CABLING ADMINISTRATION USING PATCH CORDS.
PATHWAY	1. A SEQUENCE OF CONNECTIONS THAT PROVIDES THE CONNECTIVITY BETWEEN DEVICES ON A NETWORK OR BETWEEN NETWORKS ON AN INTERNETWORK. 2. THE VERTICAL AND HORIZONTAL ROUTE OF THE TELECOMMUNICATIONS CABLE. 3. A FACILITY FOR THE PLACEMENT OF TELECOMMUNICATIONS CABLE. (TIA) 3. A FACILITY FOR THE PLACEMENT OF TELECOMMUNICATIONS CABLE. (TIA)
POWER SUM	USED TO SPECIFY A COMBINATION CROSSTALK FROM MULTIPLE SOURCES.
POWER SUM ATTENUATION-TO-CROSSTALK RATIO	A RATIO IN DB, DETERMINED BY SUBTRACTING THE INSERTION LOSS FROM TH EPOWER SUM NEAR-END CROSSTALK LOSS. (TIA)
POWER SUM EQUAL LEVEL FAR-END CROSSTALK (PSELFEXT)	A COMPUTATION OF THE UNWANTED SIGNAL COUPLING FROM MULTIPLE TRANSMITTERS AT THE NEAR-END INTO A PAIR MEASURED AT THE FAR-END, AND NORMALIZED TO THE RECEIVED SIGNAL LEVEL. (TIA)
POWER SUM NEAR-END CROSSTALK (PSNEXT) LOSS	A COMPUTATION OF THE UNWANTED SIGNAL COUPLING FROM MULTIPLE TRANSMITTERS AT THE NEAR-END INTO A PAIR MEASURED AT THE NEAR-END. (TIA)
PULL TENSION	THE PULLING FORCE THAT CAN BE APPLIED TO A CABLE. (TIA)
PUNCH DOWN	THE PROCESS OF TERMINATING COPPER CABLE CONDUCTORS ON INSULATION DISPLACEMENT CONNECTION TERMINALS BY USE OF A HANDHELD TOOL.
QUEUING	A TECHNIQUE THAT REDUCES TRANSMISSION DELAYS BY CLASSIFYING AND SORTING DATA PRIOR TO PROCESSING BY THE TRANSMITTING DEVICE.
RACEWAY	ANY ENCLOSED CHANNEL DESIGNED FOR HOLDING WIRES OR CABLES. (TIA)
RADIO FREQUENCY INTERFERENCE	ELECTROMAGNETIC INTERFERENCE WITHIN THE FREQUENCY BAND FOR RADIO TRANSMISSION.
RETURN LOSS	A RATIO, EXPRESSED IN DB, OF THE POWER OF THE OUTGOING SIGNAL TO THE POWER OF THE REFLECTED SIGNAL. (TIA)
REVERSED PAIR	A CONDITION IN WHICH THE CONDUCTORS IN A PAIR ARE TERMINATED IN THE WRONG SEQUENCE.
RIBBON CABLE	AN ASSEMBLY OF CONDUCTORS LAID SIDE BY SIDE IN A GEOMETRIC PLANE AND FASTENED TOGETHER.
SCALABILITY	THE ABILITY OF A NETWORK TO GROW WITHOUT DEGRADATION OF QUALITY.
SERVICE LOOP	A SURPLUS OF CABLE AT THE POINT OF TERMINATION TO FACILITATE POTENTIAL FUTURE CHANGES.
SHIELDED ENCLOSURE CABINET	A METAL ELECTRONICS CABINET CONSTRUCTED WITH WELDED SEAMS AND CONDUCTIVE GASKETS ON THE DOORS THAT SERVE AS AN EFFECTIVE SHIELD AGAINST ELECTROMAGNETIC RADIATION.
SPLIT PAIR	TRANSPOSITION OF TWO CONDUCTORS OF SEPARATE PAIRS.
STAR TOPOLOGY	A NETWORK TOPOLOGY IN WHICH SERVICES ARE DISTRIBUTED FROM A CENTRAL POINT.
STRUCTURED CABLING SYSTEM	THE COMPLETE COLLECTIVE CONFIGURATION OF TELECOMMUNICATIONS CABLING AND ASSOCIATED HARDWARE AT A GIVEN LOCATION.
SWEEP	BEND THAT HAS A GENTLE ARC RATHER THAN A SHARP BEND.
TELECOMMUNICATIONS	ANY TRANSMISSION, EMISSION, AND RECEPTION OF SIGNS, SIGNALS, WRITINGS, IMAGES, AND SOUNDS, THAT IS, INFORMATION OF ANY NATURE BY CABLE, RADIO, OPTICAL, OR OTHER ELECTROMAGNETIC SYSTEMS. (TIA)
TELECOMMUNICATIONS BONDING BACKBONE	A CONDUCTOR THAT INTERCONNECTS THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) TO THE TELECOMMUNICATIONS GROUNDING BUSBAR (TGB). (TIA)
TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR	A CONDUCTOR INSTALLED FROM EACH PIECE OF EQUIPMENT TO THE TELECOMMUNICATIONS GROUNDING BUSBAR OR TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.
TELECOMMUNICATIONS CABINET	AN ENCLOSURE USED FOR TERMINATING TELECOMMUNICATIONS CABLES, WIRING, AND CONNECTION DEVICES WITH A HINGED COVER, USUALLY FLUSH-MOUNTED IN THE WALL. (TIA)

DEFINITIONS (CONTINUED)

TELECOMMUNICATIONS ENCLOSURE	A CASE OR HOUSING FOR TELECOMMUNICATIONS EQUIPMENT, CABLE TERMINATIONS, AND CROSS-CONNECT CABLING. (TIA)
TELECOMMUNICATIONS ENTRANCE FACILITY	1. AN ENTRANCE TO A BUILDING FOR BOTH PUBLIC AND PRIVATE NETWORK SERVICE CABLES (INCLUDING WIRELESS) INCLUDING THE ENTRANCE POINT AT THE BUILDING WALL AND CONTINUING TO THE ENTRANCE ROOM OR SPACE. (TIA) 2. A FACILITY THAT PROVIDES ALL NECESSARY MECHANICAL AND ELECTRICAL SERVICES, THAT COMPLIES WITH ALL RELEVANT REGULATIONS, FOR THE ENTRY OF TELECOMMUNICATIONS CABLES INTO A BUILDING. (ISO)
TELECOMMUNICATIONS EQUIPMENT ROOM	AN ENVIRONMENTALLY CONTROLLED CENTRALIZED SPACE FOR TELECOMMUNICATIONS EQUIPMENT THAT USUALLY HOUSES A MAIN OR INTERMEDIATE CROSS-CONNECT. (TIA)
TELECOMMUNICATIONS GROUNDING BUSBAR	A COMMON POINT OF CONNECTION FOR TELECOMMUNICATIONS SYSTEM AND EQUIPMENT BONDING TO GROUND, AND LOCATED IN THE TELECOMMUNICATIONS ROOM OR EQUIPMENT ROOM.
TELECOMMUNICATIONS INFRASTRUCTURE	A COLLECTION OF THOSE TELECOMMUNICATIONS COMPONENTS, EXCLUDING EQUIPMENT, THAT TOGETHER PROVIDE THE BASIC SUPPORT FOR THE DISTRIBUTION OF ALL INFORMATION WITHIN A BUILDING OR CAMPUS.
TELECOMMUNICATIONS MAINTENANCE HOLE	A VAULT LOCATED IN THE GROUND OR EARTH AS PART OF A UNDERGROUND DUCT SYSTEM AND USED TO FACILITY PLACING, CONNECTORIZATION, AND MAINTENANCE OF CABLES AS WELL AS THE PLACING OF ASSOCIATED EQUIPMENT, IN WHICH IT IS EXPECTED THAT A PERSON WILL ENTER TO PERFORM WORK. (TIA)
TELECOMMUNICATIONS MEDIA	WIRE, CABLE, OR CONDUCTORS USED FOR TELECOMMUNICATIONS. (TIA)
TELECOMMUNICATIONS OUTLET/CONNECTOR	A CONNECTING DEVICE IN THE WORK AREA ON WHICH HORIZONTAL CABLE OR OUTLET CABLE TERMINATES.
TELECOMMUNICATION ROOM	AN ENCLOSED ARCHITECTURAL SPACE FOR HOUSING TELECOMMUNICATIONS EQUIPMENT, CABLE TERMINATIONS, AND CROSS-CONNECT CABLING. (TIA)
TELECOMMUNICATIONS SPACE	AN AREA USED FOR HOUSING THE INSTALLATION AND TERMINATION OF TELECOMMUNICATIONS EQUIPMENT AND CABLE (E.G., COMMON EQUIPMENT ROOMS, EQUIPMENT ROOMS, COMMON TELECOMMUNICATIONS ROOMS, TELECOMMUNICATIONS ROOMS, WORK AREAS, MAINTENANCE HOLES/HANDHOLES). (TIA)
TRANSPOSED PAIRS	WHEN TWO PAIRS OF CONDUCTORS ARE TERMINATED IN EACH OTHER'S LOCATION.
UNDERGROUND	REFERS TO CONDUIT AND MAINTENANCE HOLES SYSTEMS INSTALLED BELOW THE SURFACE OF THE GROUND.
UNDERGROUND CABLE	A TELECOMMUNICATIONS CABLE DESIGNED TO BE INSTALLED UNDER THE SURFACE OF THE EARTH IN A TROUGH OR DUCT THAT ISOLATES THE CABLE FROM DIRECT CONTACT WITH THE SOIL. (TIA)
UTILITY COLUMN	AN ENCLOSED PATHWAY EXTENDING FROM THE CEILING TO FURNITURE OR TO THE FLOOR THAT FORMS A PATHWAY FOR ELECTRICAL WIRING, TELECOMMUNICATIONS CABLE, OR BOTH. (TIA)
WORK AREA (WORK STATION)	A BUILDING SPACE WHERE THE OCCUPANTS INTERACT WITH TELECOMMUNICATIONS TERMINAL EQUIPMENT. (TIA)
WORK AREA CABLE (CORD)	A CABLE CONNECTING THE TELECOMMUNICATIONS OUTLET/CONNECTOR TO THE TERMINAL EQUIPMENT.
WORK AREA OUTLET	A CONNECTING DEVICE FOR TERMINATION OF HORIZONTAL MEDIA.

ABBREVIATIONS

ACR	ATTENUATION-TO-CROSSTALK RATIO
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BC	BONDING CONDUCTOR
BCT	BONDING CONDUCTOR FOR TELECOMMUNICATIONS
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
CO-OSP	CUSTOMER-OWNED OUTSIDE PLANT
DB	DECIBEL
DEMARC	DEMARCATION POINT
DPS	DOOR POSITION SWITCH
EAC	ELECTRONIC ACCESS CONTROL
EF	ENTRANCE FACILITY
EIA	ELECTRONIC INDUSTRIES ALLIANCE
EMI	ELECTROMAGNETIC INTERFERENCE
ER	TELECOMMUNICATIONS EQUIPMENT ROOM
FCC	FEDERAL COMMUNICATIONS COMMISSION
GB	GIGABIT
GHZ	GIGAHERTZ
HC	HORIZONTAL CROSS-CONNECT
HZ	HERTZ
IBC	INTERCONNECTING BONDING CONDUCTOR
IC	INTERMEDIATE CROSS-CONNECT
IDC	INSULATION DISPLACEMENT CONNECTION (OR)
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC
KB	KILOBIT
KB	KILOBYTE
KHZ	KILOHERTZ
KM	KILOMETER
LAN	LOCAL AREA NETWORK
LASER	LIGHT AMPLIFICATION BY STIMULATED EMISSION OF RADIATION
LEC	LOCAL EXCHANGE CARRIER
LED	LIGHT-EMITTING DIODE
MB	MEGABIT
MC	MAIN CROSS-CONNECT
MH	TELECOMMUNICATIONS MAINTENANCE HOLE
MHZ	MEGAHERTZ
MUTO	MULTI-USER TELECOMMUNICATIONS OUTLET
MUTOA	MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY
NOS	NETWORK OPERATING SYSTEM
NEC	NATIONAL ELECTRIC CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NETWORK TRANSPORT SYSTEMS
OS	OPERATING SYSTEM
PSACR	POWER SUM ATTENUATION TO CROSSTALK RATIO
PSELFEXT	POWER SUM EQUAL LEVEL FAR-END CROSSTALK
QOS	QUALITY-OF-SERVICE
RCDD	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
RFI	RADIO FREQUENCY INTERFERENCE
RFID	RADIO FREQUENCY IDENTIFICATION
RGB	RED, GREEN, BLUE
SONET	SYNCHRONOUS OPTICAL NETWORK
SPOOL	SIMULTANEOUS PERIPHERAL OPERATION ONLINE
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TDMM	TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM
UTP	UNSHIELDED TWISTED PAIR
VCSEL	VERTICAL CAVITY SURFACE EMITTING LASER
VGA	VIDEO GRAPHICS ARRAY
VOD	VIDEO-ON-DEMAND
VOIP	VOICE OVER INTERNET PROTOCOL
WAP	WIRELESS ACCESS POINT
WLAN	WIRELESS LOCAL AREA NETWORK
X	CROSS-CONNECT

OWNER / CONTRACTOR RESPONSIBILITY

	CONTRACTOR FURNISH	CONTRACTOR INSTALL	OWNER FURNISH	OWNER INSTALL	NOTES
DOOR SECURITY CONTROLLER AND MC/ER OR TR TERM.	NO	NO	YES	YES	OWNER USES VERKADA
ACCESS CONTROL YELLOW CAT6A & FRAME ROUGH-IN	YES	YES	NO	NO	PROVIDE 22-6/CAT6 TO CLOSET
ACCESS CONTROL CARD READERS	NO	NO	YES	YES	OWNER USES VERKADA
INTRUSION DETECTION RECESSED DOOR CONTACTS	NO	NO	NO	NO	PROVIDED BY DOOR HARDWARE
DOOR CONTACT & ELECTRONIC DOOR RELEASE **WIRING**	YES	YES	NO	NO	PROVIDE CABLING TO CLOSET
AV PROJECTOR	NO	NO	YES	YES	CLASSROOM - POWERLITE 118
AV PROJECTOR MISC. CABLING (IN WALL)	YES	YES	NO	NO	REFER TO DETAILS ON T-501
MOUNTING ASSEMBLIES FOR MONITORS & PROJECTORS	YES	YES	NO	NO	CONFIRM EPSON PROJ W/OWNER
AV PROJECTOR SCREENS	N/A	N/A	N/A	N/A	TYP - CLASSROOM WHITEBOARD
AV MONITORS	NO	NO	YES	YES	55" OFFICE - 75" CONFERENCE
AV MONITORS MISC. CABLING (IN WALL)	YES	YES	NO	NO	REFER TO DETAILS ON T-501
AV MONITOR PATCH CABLES	NO	NO	YES	YES	
PHONE SETS OR PROGRAMMING	N/A	N/A	YES	YES	
FIBER BACKBONE	YES	YES	NO	NO	REFER TO SHEET T-701
FIBER TERM AND TEST	YES	YES	NO	NO	
FIBER ENCLOSER WITH LC COUPLER PANEL	YES	YES	NO	NO	
NETWORK EQUIPMENT - SWITCHES / UPS'	NO	NO	YES	YES	
NETWORK SFP	NO	NO	YES	YES	
IDF RACKS	YES	YES	NO	NO	
HORIZONTAL CAT6 CABLING - TERMINATION & TESTING	YES	YES	NO	NO	
SOUND REINFORCEMENT	YES	YES	NO	NO	TYP - TEACHLOGIC IRM6650/LS4
SURVEILLANCE CAMERAS	NO	NO	YES	YES	OWNER USES VERKADA
SURVEILLANCE CAMERAS PURPLE CAT6A CABLING	YES	YES	NO	NO	
WIRELESS ACCESS POINTS	NO	NO	YES	YES	
WIRELESS ACCESS POINTS WHITE CAT6A CABLING	YES	YES	NO	NO	
PAGING / INTERCOM SPEAKERS	YES	YES	NO	NO	
PAGING / INTERCOM WIRING	YES	YES	NO	NO	
PAGING / INTERCOM CAREHAWK SYSTEMS & PROGRAM	YES	YES	NO	NO	DISTRICT STANDARD-CAREHAWK
BOARDROOM A/V WIRELESS MICROPHONE SYSTEM	YES	YES	NO	NO	MXCW640 WIRELESS CONF UNIT
BOARDROOM MONITORS & PROJECTORS MOUNTS	YES	YES	NO	NO	
BOARDROOM A/V DEVICES AND CABLING INCLUDING:	YES	YES	NO	NO	
1. BOARDROOM CEILING AUDIO SPEAKERS	YES	YES	NO	NO	
2. BOARDROOM MONITORS & PROJECTORS	NO	NO	YES	YES	
3. BOARDROOM STREAMING CAMERAS	YES	YES	NO	NO	
4. BOARDROOM A/V NETWORK EQUIPMENT	YES	YES	NO	NO	
5. BOARDROOM A/V EQUIP STREAMING & PROGRAMMING	YES	YES	NO	NO	
6. BOARDROOM A/V PATCH CABLES AND TESTING	YES	YES	NO	NO	

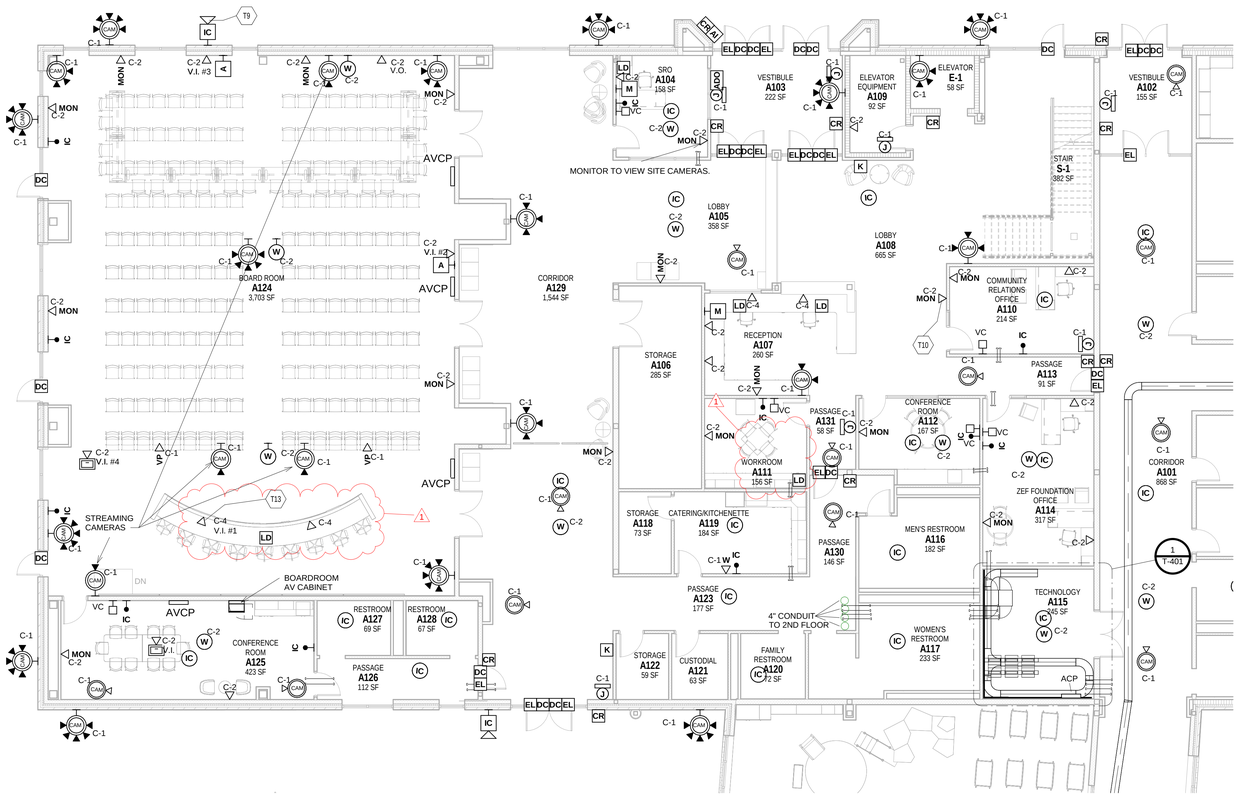
TECHNOLOGY LEGEND & SYMBOLS

TELECOMMUNICATIONS SYSTEM

			OUTLET INFORMATION	MOUNTING HEIGHT	NOTES
X	COMMUNICATIONS OUTLET. TYPICAL 2 (TWO) CAT6A CABLES INDICATED WITH C-x, X=THE QUANTITY OF COMM HORIZONTAL CABLES IN ADDITION TO OTHER CABLES NOTED.	ROUGH-IN CABLING DEVICE	(2) C, (1) 2 GANG BOX	+16" A.F.F. WALL MTD.	
SR	SOUND REINFORCEMENT OUTLET. TYPICAL 1 (ONE) CAT6A CABLES INDICATED WITH C-x, X=THE QUANTITY OF COMM HORIZONTAL CABLES IN ADDITION TO OTHER CABLES NOTED.	ROUGH-IN CABLING DEVICE	(2) C, (1) 2 GANG BOX	+16" A.F.F. WALL MTD.	
VI	VIDEO INPUT OUTLET. TYPICAL 1 (ONE) CAT6A CABLE INDICATED WITH C-X, X=THE QUANTITY OF COMM HORIZONTAL CABLES IN ADDITION TO OTHER CABLES	ROUGH-IN CABLING DEVICE	(2) C, (1) 2 GANG BOX	+16" A.F.F. WALL MTD.	
W	CEILING MOUNTED WIRELESS ACCESS POINT LOCATION. PROVIDE CATEGORY 6A DATA DROPS FOR WIRELESS ACCESS POINTS. PROVIDE 20 FEET SLACK LOOP COILED NEATLY AND SUPPORTED ABOVE THE CEILING. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING.	CABLING DEVICE	- -	CEILING MOUNTED SEE RCP	TERMINATE CABLES WITH RJ45 MODULAR JACKS AND TEST PER SPECS. NOTE LOCATION ON DRAWINGS AND MARK LOCATION ON GRID WITH BLUE DOT. SLACK LOOP UNNECESSARY FOR LOCATIONS IN CONDUIT SUCH AS GYMS.
VP	CEILING-MOUNT PROJECTOR OUTLET. TYPICAL 1 (ONE) CAT6A CABLE INDICATED WITH C-X, X=THE QUANTITY OF COMM HORIZONTAL CABLES IN ADDITION TO OTHER CABLES	ROUGH-IN CABLING DEVICE	(1) C, (1) SINGLE GANG BOX	CEILING MOUNTED SEE RCP	PROVIDE CABLING ALONG WITH PROJECTOR MOUNT FOR THE ENVIRONMENT. OWNER TO PROVIDE PROJECTOR. SEE SPECS AND RESPONSIBILITY MATRIX BELOW
	MULTI CAPACITY FLOOR BOX. WHEN INDICATED WITH C-X, X=THE QUANTITY OF COMM HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.				
MON	WALL MOUNTED MONITOR. TYPICAL 2 (TWO) CAT 6A CABLES. WHEN INDICATED WITH C-x, x = THE # OF COMM HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.				
	CONDUIT SLEEVES BETWEEN WALLS				PROVIDED BY DIV 26. CONFIRM LOCATIONS
	18" BASKET TRAY				
	CABLE TRAY	- -	- -	+96" A.F.F. TO BOTTOM	- -
	TELECOMMUNICATIONS CABINET	- -	- -	FLOOR MOUNTED	- -
	4-POST TECHNOLOGY EQUIPMENT RACK	- -	- -	FLOOR MOUNTED	- -

SOUND SYSTEMS

		SCOPE OF WORK	ROUGH-IN INFORMATION	MOUNTING HEIGHT	NOTES
S	INTERCOM SPEAKER (CEILING MOUNTED)	CABLING DEVICE	- -	CEILING MOUNTED SEE RCP	- -
S	INTERCOM SPEAKER (WALL MOUNTED)	ROUGH-IN CABLING DEVICE	(1) C, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	- -
IC	INTERCOM SPEAKER HORN (WALL MOUNTED)	ROUGH-IN CABLING DEVICE	(1) C, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	- -
AVCP	AHM WALL MOUNTED A/V CONTROL PAD	ROUGH-IN CABLING DEVICE	(1-1/4) C, (1) DOUBLE GANG BOX	+44" A.



1 FIRST FLOOR TECHNOLOGY PLAN - UNIT A

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
A101		CORRIDOR	868 SF
A102		VESTIBULE	155 SF
A103		VESTIBULE	222 SF
A104		SRO	158 SF
A105		<varies>	358 SF
A106		STORAGE	285 SF
A107		<varies>	<varies>
A108		LOBBY	<varies>
A109		ELEVATOR EQUIPMENT	92 SF
A110		COMMUNITY RELATIONS OFFICE	214 SF
A111		WORKROOM	156 SF
A112		CONFERENCE ROOM	167 SF
A113		PASSAGE	91 SF
A114		ZEF FOUNDATION OFFICE	317 SF
A115		TECHNOLOGY	245 SF
A116		MEN'S RESTROOM	<varies>
A117		WOMEN'S RESTROOM	233 SF
A118		STORAGE	73 SF
A119		CATERING/KITCHENETTE	184 SF
A120		FAMILY RESTROOM	72 SF
A121		CUSTODIAL	63 SF
A122		STORAGE	59 SF
A123		PASSAGE	177 SF
A124		BOARD ROOM	<varies>
A125		CONFERENCE ROOM	423 SF
A126		PASSAGE	112 SF
A127		RESTROOM	69 SF
A128		RESTROOM	67 SF
A129		CORRIDOR	1544 SF
A130		PASSAGE	146 SF
A131		PASSAGE	58 SF
B101		CORRIDOR	1654 SF
B102		DAYCARE INFANTS/TODDLERS	1303 SF
E1		ELEVATOR	58 SF
E101		CORRIDOR	142 SF
E102		ELECTRICAL	131 SF
E103		RESTROOM	233 SF
E104		STORAGE	172 SF
E105		CLASSROOM	943 SF
E132		CLASSROOM	1093 SF
E133		OT/PT/SPEECH OFFICE	138 SF
E134		OT/PT/SPEECH OFFICE	139 SF
E135		RESTROOM	62 SF
E136		OUTDOOR STORAGE	142 SF
E139		RESTROOM	62 SF
E143		CORRIDOR	868 SF
E-1		ELEVATOR	58 SF
S-1		STAIR	382 SF

TECHNOLOGY PLAN GENERAL NOTES

A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T9	EXTERIOR INTERCOM SPEAKERS SHOULD BE PROGRAMMED TO SEPARATE ZONE IN CAREHAWK SOFTWARE WITH ADJUSTABLE VOLUME CONTROL.
T10	PROVIDE ONE FIBER HDMI CABLE FROM THIS MONITOR LOCATION BACK TO THE MAIN CLOSET. THIS MONITOR IS FOR THE ENERGY DASBOARD VIEWING LOCATION.
T13	BOARD ROOM WILL HAVE A FULL AV SYSTEM INSTALLED. INCLUDES SHURE MICROFLEX AUDIO SYSTEM ALONG WITH AN AHM/EXTRON AV SYSTEM THAT WOULD ENABLE WEB STREAMING AND RECORDING.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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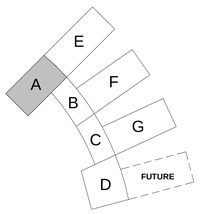
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ARCHITECT

FANNING HOWEY

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350 E NEW YORK ST #300, INDIANAPOLIS, IN 46204



KEY PLAN

N

ISSUED FOR BID

BRIAN W. BUTLER REGISTERED No. PE10800025 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: JM
DRAWN BY: CDT
PROJECT NUMBER: 224033.00
PROJECT ISSUE DATE: 06.24.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	07.09.2025

FIRST FLOOR TECHNOLOGY PLAN - UNIT A

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1 FIRST FLOOR TECHNOLOGY PLAN - UNIT D

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
C101		CORRIDOR	1627 SF
C113		DAYCARE INFANTS/TODDLERS	1116 SF
D101		VESTIBULE	140 SF
D102		RECEPTION	753 SF
D102A		OFFICE	138 SF
D103		OFFICE	116 SF
D104		OFFICE	186 SF
D105		OFFICE	187 SF
D106		OFFICE	143 SF
D107		OFFICE	159 SF
D108		CORRIDOR	292 SF
D109		<varies>	186 SF
D110		TEACHER PREP	235 SF
D111		TOILET	68 SF
D112		TECHNOLOGY	92 SF
D113		TOILET	72 SF
D114		TOILET	83 SF
D115		CLINIC	481 SF
D116		HEAT PUMP CLOSET	31 SF
D117		TOILET	67 SF
D118		CORRIDOR	109 SF
D119		WORKROOM	359 SF
D120		HEAT PUMP CLOSET	30 SF
D121		CORRIDOR	520 SF
D122		LAUNDRY / CUSTODIAL	116 SF
D123		STORAGE	177 SF
D124		STORAGE	254 SF
D125		CORRIDOR	582 SF
D126		MECHANICAL / ELECTRICAL	1750 SF
D127		RECEIVING	304 SF
D128		FOOD SERVICE	1282 SF
D129		CORRIDOR	885 SF
D130		OFFICE	126 SF
D131		PASSAGE	72 SF
D132		CART WASH / LAUNDRY	129 SF
D133		TOILET	70 SF
D134		DRY STORAGE	115 SF
D135		FIRE RISER	126 SF
D136		ELECTRICAL	152 SF
D137		ELECTRICAL	65 SF
D138		CORRIDOR	599 SF
G132		CLASSROOM	1093 SF

TECHNOLOGY PLAN GENERAL NOTES

A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T3	PROVIDE CABLES FOR HVAC CONTROL PANELS. COORDINATE AND CONFIRM LOCATION WITH HVAC CONTRACTOR.
T9	EXTERIOR INTERCOM SPEAKERS SHOULD BE PROGRAMMED TO SEPARATE ZONE IN CAREHAWK SOFTWARE WITH ADJUSTABLE VOLUME CONTROL.
T10	PROVIDE ONE FIBER HDMI CABLE FROM THIS MONITOR LOCATION BACK TO THE MAIN CLOSET. THIS MONITOR IS FOR THE ENERGY DASBOARD VIEWING LOCATION.
T15	PROVIDE MAIN ELECTRICAL SWITCHBOARD NETWORK CABLE LOCATION. COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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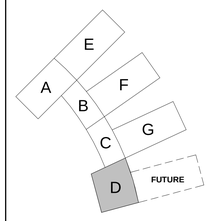
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1	ADDENDUM #1	07.09.2025

FIRST FLOOR TECHNOLOGY PLAN - UNIT D

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